FCC RADIO TEST REPORT

Equipment	:	**CC2745R10-Q1 LaunchPad™ Development Kit**
Brand Name	:	**Texas Instruments**
Model Name	:	**LP-EM-CC2745R10-Q1**
Marketing Name	:	**LP-EM-CC2745R10-Q1**
Applicant	:	**Texas Instruments Incorporated 12500 TI BLVD., Dallas, Texas, 75243**
Manufacturer	:	**Texas Instruments Incorporated 12500 TI BLVD., Dallas, Texas, 75243**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on Nov. 04, 2024 and testing was performed from Nov. 25, 2024 to Dec. 09, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR4O0417A	01	Initial issue of report	Dec. 24, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	1.90 dB under the limit at 4960.00 MHz
3.6	15.207	AC Conducted Emission	Pass	6.16 dB under the limit at 0.42 MHz
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Danny Lee

Report Producer: Emma Hsiao

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth - LE (125 kbps, 500 kbps, 1Mbps, 2Mbps) **Antenna Type** Bluetooth - LE: Inverted F PCB Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	3.3

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY(TAF Code: 1190)
Remark	The Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, 03CH12-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

2.2 Test Mode

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

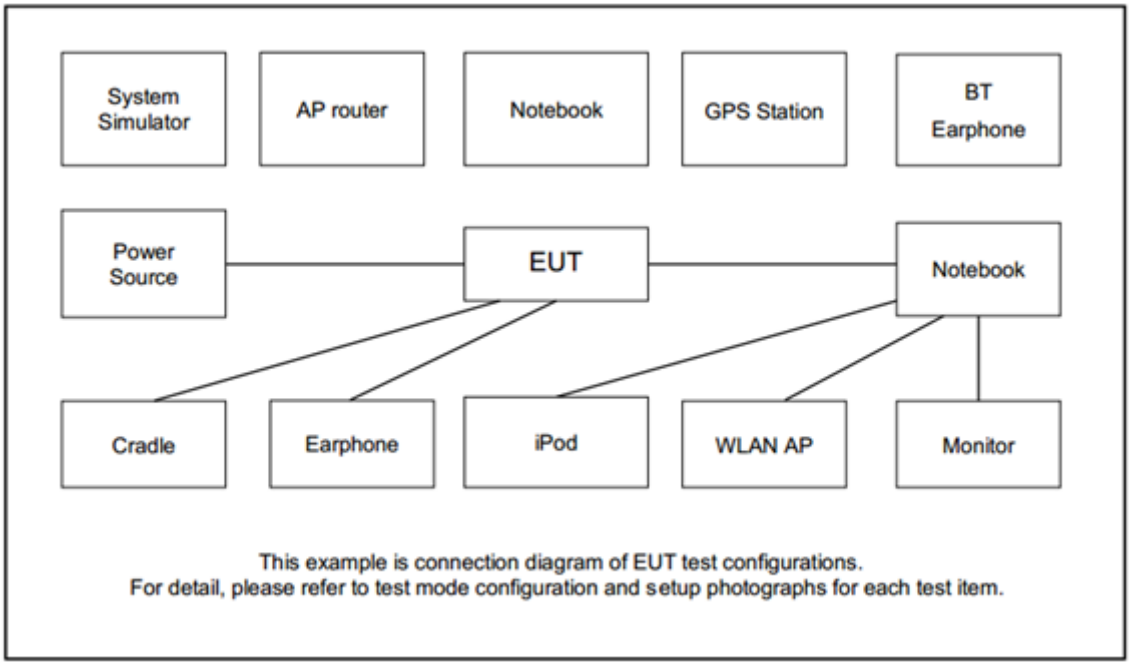
Summary table of Test Cases	
Test Item	**Data Rate / Modulation**
Conducted Test Cases	**Bluetooth – LE / GFSK**
	<5dBm>
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
	Mode 4: Bluetooth Tx CH01_2404 MHz_2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 6: Bluetooth Tx CH38_2478 MHz_2Mbps
	Mode 7: Bluetooth Tx CH00_2402 MHz_125kbps
	Mode 8: Bluetooth Tx CH19_2440 MHz_125kbps
	Mode 9: Bluetooth Tx CH39_2480 MHz_125kbps
	Mode 10: Bluetooth Tx CH00_2402 MHz_500kbps
	Mode 11: Bluetooth Tx CH19_2440 MHz_500kbps
	Mode 12: Bluetooth Tx CH39_2480 MHz_500kbps
	<10dBm>
	Mode 13: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 14: Bluetooth Tx CH19_2440 MHz_1Mbps
	Mode 15: Bluetooth Tx CH39_2480 MHz_1Mbps
	Mode 16: Bluetooth Tx CH01_2404 MHz_2Mbps
	Mode 17: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 18: Bluetooth Tx CH38_2478 MHz_2Mbps
	Mode 19: Bluetooth Tx CH00_2402 MHz_125kbps
	Mode 20: Bluetooth Tx CH19_2440 MHz_125kbps
	Mode 21: Bluetooth Tx CH39_2480 MHz_125kbps
	Mode 22: Bluetooth Tx CH00_2402 MHz_500kbps
	Mode 23: Bluetooth Tx CH19_2440 MHz_500kbps
	Mode 24: Bluetooth Tx CH39_2480 MHz_500kbps

Summary table of Test Cases	
Test Item	**Data Rate / Modulation**
Radiated Test Cases	**<5dBm>** Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps Mode 4: Bluetooth Tx CH01_2404 MHz_2Mbps Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps Mode 6: Bluetooth Tx CH38_2478 MHz_2Mbps Mode 7: Bluetooth Tx CH00_2402 MHz_125kbps Mode 8: Bluetooth Tx CH19_2440 MHz_125kbps Mode 9: Bluetooth Tx CH39_2480 MHz_125kbps Mode 10: Bluetooth Tx CH00_2402 MHz_500kbps Mode 11: Bluetooth Tx CH19_2440 MHz_500kbps Mode 12: Bluetooth Tx CH39_2480 MHz_500kbps **<10dBm>** Mode 13: Bluetooth Tx CH00_2402 MHz_1Mbps Mode 14: Bluetooth Tx CH19_2440 MHz_1Mbps Mode 15: Bluetooth Tx CH39_2480 MHz_1Mbps Mode 16: Bluetooth Tx CH01_2404 MHz_2Mbps Mode 17: Bluetooth Tx CH19_2440 MHz_2Mbps Mode 18: Bluetooth Tx CH38_2478 MHz_2Mbps Mode 19: Bluetooth Tx CH00_2402 MHz_125kbps Mode 20: Bluetooth Tx CH19_2440 MHz_125kbps Mode 21: Bluetooth Tx CH39_2480 MHz_125kbps Mode 22: Bluetooth Tx CH00_2402 MHz_500kbps Mode 23: Bluetooth Tx CH19_2440 MHz_500kbps Mode 24: Bluetooth Tx CH39_2480 MHz_500kbps
AC Conducted Emission	Mode 1: 5 dbm path + Bluetooth - LE Tx + USB Cable (Charging from Notebook) Mode 2: 10 dbm path + Bluetooth - LE Tx + USB Cable (Charging from Notebook)

Remark:

1. The worst case of Conducted Emission is mode 1; only the test data of it was reported.
2. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.
3. Bluetooth-LE 2Mbps does not support primary advertising channels; it does not support channel 00 and channel 39.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC55U	FCC DoC	N/A	Unshielded, 1.8m
2.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0m	N/A
3.	Notebook	Lenovo	TP00116A	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	Latitude 3400	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

Remark: Applicant has ensured support unit would not be attached with the product on the market, support unit is provided by lab for testing.

2.5 EUT Operation Test Setup

The RF test items, utility “SmartRF studio 8 v1.2.0 ALPHA (build #54)” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

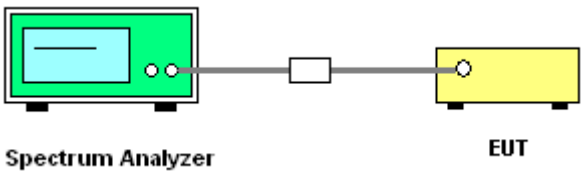
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

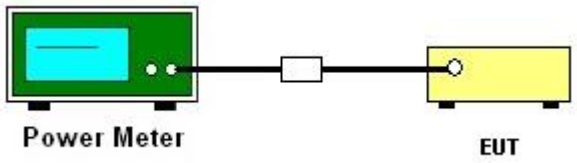
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1.
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. The RF output of EUT is connected to the power meter by RF cable and attenuator.
4. The path loss is compensated to the results for each measurement.
5. Set the maximum power setting and enable the EUT to transmit continuously.
6. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

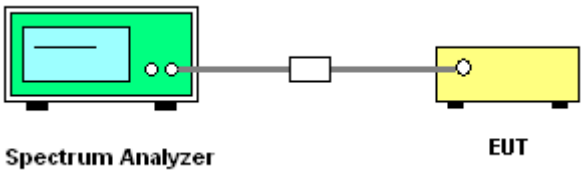
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

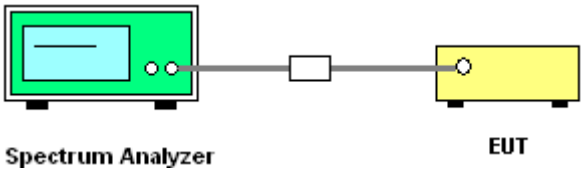
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedure

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

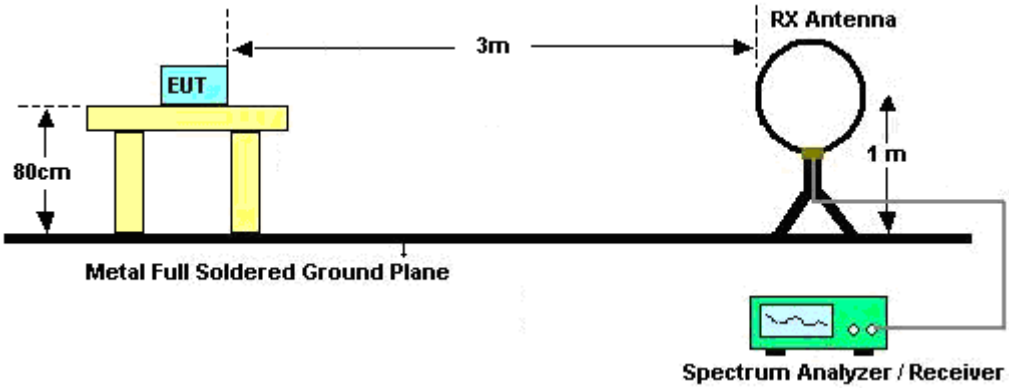
Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

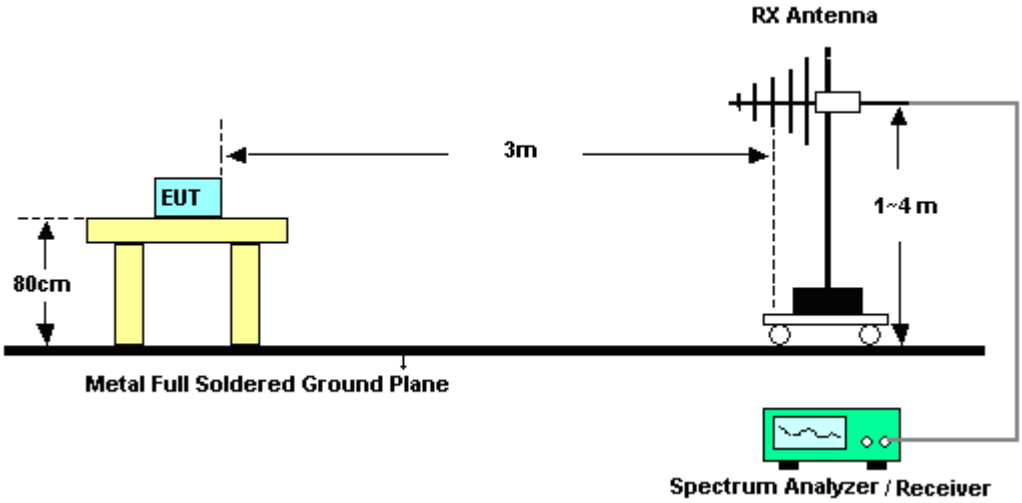
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW = 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW = 3 MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

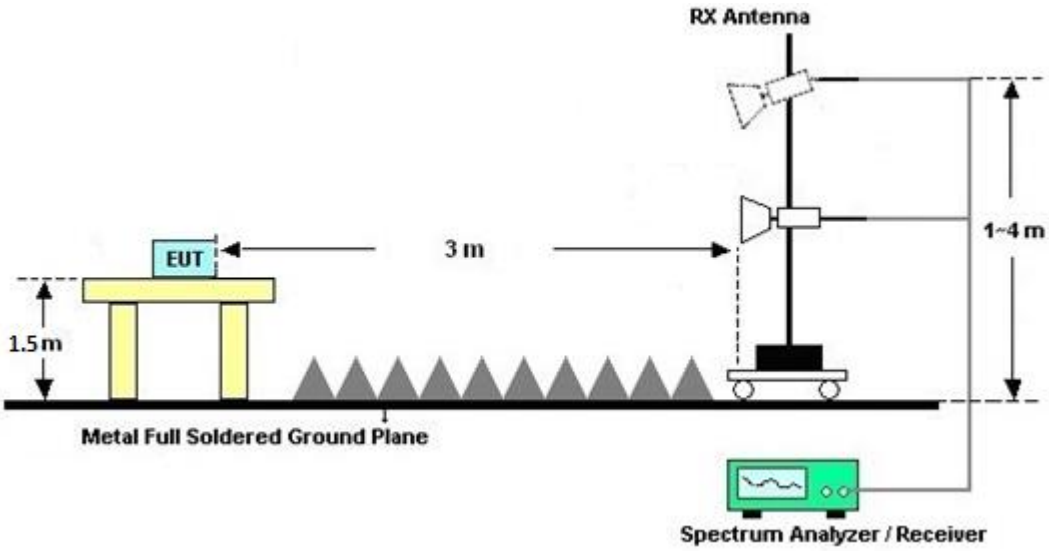
For radiated test below 30MHz



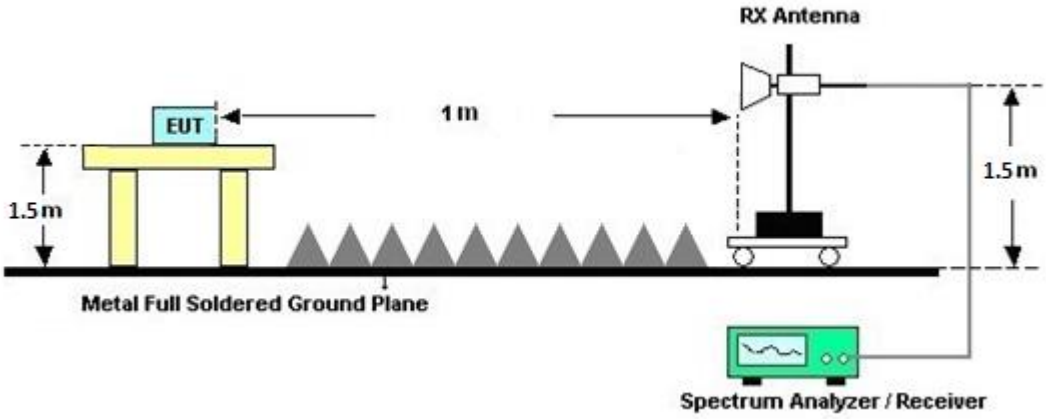
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

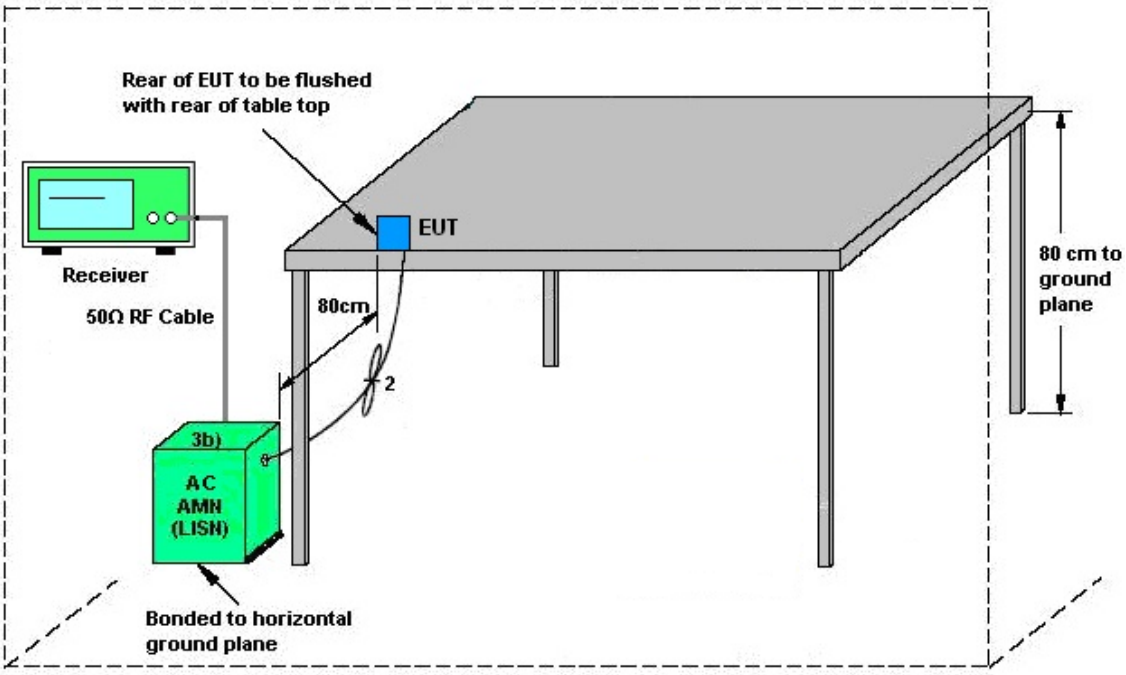
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.6.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.7.2 Antenna Anti-Replacement Construction

Antenna permanently attached.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Nov. 28, 2024~ Dec. 04, 2024	Feb. 22, 2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Nov. 28, 2024~ Dec. 04, 2024	Nov. 26, 2025	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 11, 2024	Nov. 28, 2024~ Dec. 04, 2024	Jul. 10, 2025	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1224	18GHz-40GHz	Jun. 24, 2024	Nov. 28, 2024~ Dec. 04, 2024	Jun. 23, 2025	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 20, 2024	Nov. 28, 2024~ Dec. 04, 2024	Mar. 19, 2025	Radiation (03CH12-HY)
Amplifier	E-INSTRUMENT TECH LTD.	ERA-10M-7000-MR	EC1900245	10MHz-7GHz	Jan. 09, 2024	Nov. 28, 2024~ Dec. 04, 2024	Jan. 08, 2025	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 20, 2023	Nov. 28, 2024~ Dec. 04, 2024	Dec. 19, 2024	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2023	Nov. 28, 2024~ Dec. 04, 2024	Dec. 06, 2024	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Aug.09, 2024	Nov. 28, 2024~ Dec. 04, 2024	Aug.08, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 13, 2024	Nov. 28, 2024~ Dec. 04, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass Filter	Mar. 13, 2024	Nov. 28, 2024~ Dec. 04, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Nov. 28, 2024~ Dec. 04, 2024	Mar. 05, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 18, 2023	Nov. 28, 2024~ Dec. 04, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 18, 2023	Nov. 28, 2024~ Dec. 04, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 18, 2023	Nov. 28, 2024~ Dec. 04, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 29, 2024	Nov. 28, 2024~ Dec. 04, 2024	Aug. 28, 2025	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 28, 2024~ Dec. 04, 2024	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 28, 2024~ Dec. 04, 2024	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 28, 2024~ Dec. 04, 2024	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Nov. 28, 2024~ Dec. 04, 2024	N/A	Radiation (03CH12-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Nov. 25, 2024~ Dec. 09, 2024	Oct. 30, 2025	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 04, 2024	Nov. 25, 2024~ Dec. 09, 2024	Jul. 03, 2025	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 04, 2024	Nov. 25, 2024~ Dec. 09, 2024	Jul. 03, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Nov. 25, 2024~ Dec. 09, 2024	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Nov. 25, 2024~ Dec. 09, 2024	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_241128	N/A	Conducted Other Test Item	N/A	Nov. 25, 2024~ Dec. 09, 2024	N/A	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 26, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Nov. 26, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 14, 2024	Nov. 26, 2024	Oct. 13, 2025	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 08, 2023	Nov. 26, 2024	Dec. 07, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 14, 2024	Nov. 26, 2024	Nov. 13, 2025	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Nov. 26, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 30, 2024	Nov. 26, 2024	Jul. 29, 2025	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT24082501	N/A	Oct. 15, 2024	Nov. 26, 2024	Oct. 14, 2025	Conduction (CO05-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.3 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2024/11/25~2024/12/09	Relative Humidity:	51~54	%

<5dBm>

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.078	0.706	0.50	Pass
BLE	1Mbps	1	19	2440	1.081	0.707	0.50	Pass
BLE	1Mbps	1	39	2480	1.071	0.706	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	1Mbps	1	0	2402	6.65	30.00	3.30	9.95	36.00	Pass	5
BLE	1Mbps	1	19	2440	6.58	30.00	3.30	9.88	36.00	Pass	5
BLE	1Mbps	1	39	2480	6.61	30.00	3.30	9.91	36.00	Pass	5

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	1Mbps	1	0	2402	4.60	30.00	3.30	7.90	36.00	Pass	5
BLE	1Mbps	1	19	2440	4.54	30.00	3.30	7.84	36.00	Pass	5
BLE	1Mbps	1	39	2480	4.62	30.00	3.30	7.92	36.00	Pass	5

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	4.82	-7.36	3.30	8.00	Pass
BLE	1Mbps	1	19	2440	4.73	-6.99	3.30	8.00	Pass
BLE	1Mbps	1	39	2480	4.81	-6.64	3.30	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Report Number : FR4O0417A

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	2Mbps	1	1	2404	2.067	1.331	0.50	Pass
BLE	2Mbps	1	19	2440	2.095	1.378	0.50	Pass
BLE	2Mbps	1	38	2478	2.084	1.372	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	2Mbps	1	1	2404	6.68	30.00	3.30	9.98	36.00	Pass	5
BLE	2Mbps	1	19	2440	6.60	30.00	3.30	9.90	36.00	Pass	5
BLE	2Mbps	1	38	2478	6.62	30.00	3.30	9.92	36.00	Pass	5

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	2Mbps	1	1	2404	4.56	30.00	3.30	7.86	36.00	Pass	5
BLE	2Mbps	1	19	2440	4.52	30.00	3.30	7.82	36.00	Pass	5
BLE	2Mbps	1	38	2478	4.64	30.00	3.30	7.94	36.00	Pass	5

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	1	2404	4.02	-9.07	3.30	8.00	Pass
BLE	2Mbps	1	19	2440	4.12	-9.97	3.30	8.00	Pass
BLE	2Mbps	1	38	2478	3.56	-10.13	3.30	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Report Number : FR4O0417A

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	125k	1	0	2402	1.090	0.731	0.50	Pass
BLE	125k	1	19	2440	1.095	0.750	0.50	Pass
BLE	125k	1	39	2480	1.091	0.736	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	125k	1	0	2402	7.14	30.00	3.30	10.44	36.00	Pass	5
BLE	125k	1	19	2440	7.00	30.00	3.30	10.30	36.00	Pass	5
BLE	125k	1	39	2480	6.94	30.00	3.30	10.24	36.00	Pass	5

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	125k	1	0	2402	4.83	30.00	3.30	8.13	36.00	Pass	5
BLE	125k	1	19	2440	4.77	30.00	3.30	8.07	36.00	Pass	5
BLE	125k	1	39	2480	4.71	30.00	3.30	8.01	36.00	Pass	5

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	125k	1	0	2402	1.83	-1.00	3.30	8.00	Pass
BLE	125k	1	19	2440	1.73	-1.05	3.30	8.00	Pass
BLE	125k	1	39	2480	1.92	-1.02	3.30	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Report Number : FR4O0417A

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	500k	1	0	2402	1.056	0.690	0.50	Pass
BLE	500k	1	19	2440	1.066	0.700	0.50	Pass
BLE	500k	1	39	2480	1.054	0.690	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	500k	1	0	2402	7.02	30.00	3.30	10.32	36.00	Pass	5
BLE	500k	1	19	2440	6.97	30.00	3.30	10.27	36.00	Pass	5
BLE	500k	1	39	2480	6.96	30.00	3.30	10.26	36.00	Pass	5

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	500k	1	0	2402	4.89	30.00	3.30	8.19	36.00	Pass	5
BLE	500k	1	19	2440	4.80	30.00	3.30	8.10	36.00	Pass	5
BLE	500k	1	39	2480	4.72	30.00	3.30	8.02	36.00	Pass	5

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	500k	1	0	2402	4.94	-7.49	3.30	8.00	Pass
BLE	500k	1	19	2440	4.84	-6.95	3.30	8.00	Pass
BLE	500k	1	39	2480	4.91	-7.01	3.30	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Report Number : FR4O0417A

<10dBm>

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.070	0.690	0.50	Pass
BLE	1Mbps	1	19	2440	1.065	0.693	0.50	Pass
BLE	1Mbps	1	39	2480	1.080	0.720	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	1Mbps	1	0	2402	10.21	30.00	3.30	13.51	36.00	Pass	10
BLE	1Mbps	1	19	2440	10.19	30.00	3.30	13.49	36.00	Pass	10
BLE	1Mbps	1	39	2480	10.03	30.00	3.30	13.33	36.00	Pass	10

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	1Mbps	1	0	2402	9.70	30.00	3.30	13.00	36.00	Pass	10
BLE	1Mbps	1	19	2440	9.63	30.00	3.30	12.93	36.00	Pass	10
BLE	1Mbps	1	39	2480	9.44	30.00	3.30	12.74	36.00	Pass	10

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	10.12	-2.27	3.30	8.00	Pass
BLE	1Mbps	1	19	2440	9.95	-2.47	3.30	8.00	Pass
BLE	1Mbps	1	39	2480	9.84	-2.06	3.30	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Report Number : FR4O0417A

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	2Mbps	1	1	2404	2.063	1.340	0.50	Pass
BLE	2Mbps	1	19	2440	2.060	1.419	0.50	Pass
BLE	2Mbps	1	38	2478	2.084	1.354	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	2Mbps	1	1	2404	10.18	30.00	3.30	13.48	36.00	Pass	10
BLE	2Mbps	1	19	2440	10.12	30.00	3.30	13.42	36.00	Pass	10
BLE	2Mbps	1	38	2478	10.01	30.00	3.30	13.31	36.00	Pass	10

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	2Mbps	1	1	2404	9.69	30.00	3.30	12.99	36.00	Pass	10
BLE	2Mbps	1	19	2440	9.61	30.00	3.30	12.91	36.00	Pass	10
BLE	2Mbps	1	38	2478	9.42	30.00	3.30	12.72	36.00	Pass	10

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	1	2404	8.93	-4.97	3.30	8.00	Pass
BLE	2Mbps	1	19	2440	8.92	-3.97	3.30	8.00	Pass
BLE	2Mbps	1	38	2478	9.29	-4.69	3.30	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Report Number : FR4O0417A

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	125k	1	0	2402	1.086	0.712	0.50	Pass
BLE	125k	1	19	2440	1.084	0.715	0.50	Pass
BLE	125k	1	39	2480	1.090	0.744	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	125k	1	0	2402	10.58	30.00	3.30	13.88	36.00	Pass	10
BLE	125k	1	19	2440	10.47	30.00	3.30	13.77	36.00	Pass	10
BLE	125k	1	39	2480	10.37	30.00	3.30	13.67	36.00	Pass	10

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	125k	1	0	2402	9.83	30.00	3.30	13.13	36.00	Pass	10
BLE	125k	1	19	2440	9.70	30.00	3.30	13.00	36.00	Pass	10
BLE	125k	1	39	2480	9.58	30.00	3.30	12.88	36.00	Pass	10

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	125k	1	0	2402	7.06	4.12	3.30	8.00	Pass
BLE	125k	1	19	2440	6.92	3.95	3.30	8.00	Pass
BLE	125k	1	39	2480	6.74	3.89	3.30	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Report Number : FR4O0417A

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	500k	1	0	2402	1.050	0.697	0.50	Pass
BLE	500k	1	19	2440	1.051	0.686	0.50	Pass
BLE	500k	1	39	2480	1.070	0.703	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	500k	1	0	2402	10.55	30.00	3.30	13.85	36.00	Pass	10
BLE	500k	1	19	2440	10.47	30.00	3.30	13.77	36.00	Pass	10
BLE	500k	1	39	2480	10.36	30.00	3.30	13.66	36.00	Pass	10

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	500k	1	0	2402	9.80	30.00	3.30	13.10	36.00	Pass
BLE	500k	1	19	2440	9.68	30.00	3.30	12.98	36.00	Pass
BLE	500k	1	39	2480	9.54	30.00	3.30	12.84	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	500k	1	0	2402	10.10	-1.38	3.30	8.00	Pass
BLE	500k	1	19	2440	9.96	-2.47	3.30	8.00	Pass
BLE	500k	1	39	2480	9.86	-2.35	3.30	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

<5dBm>

6dB Bandwidth

<1Mbps>

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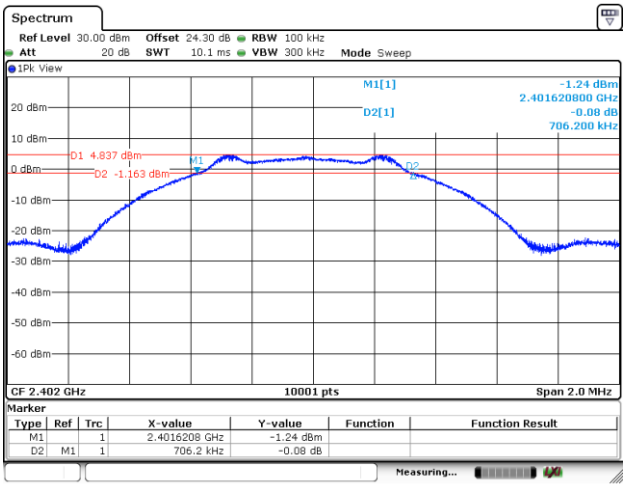	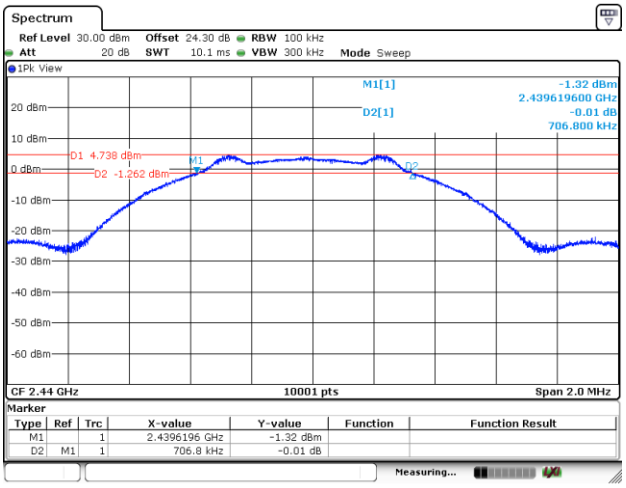
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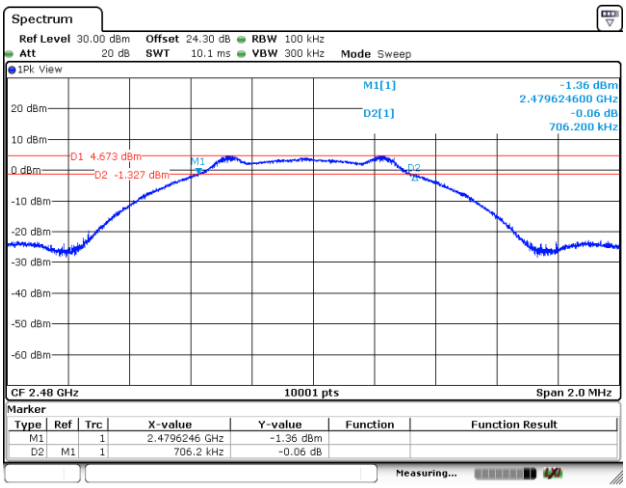	

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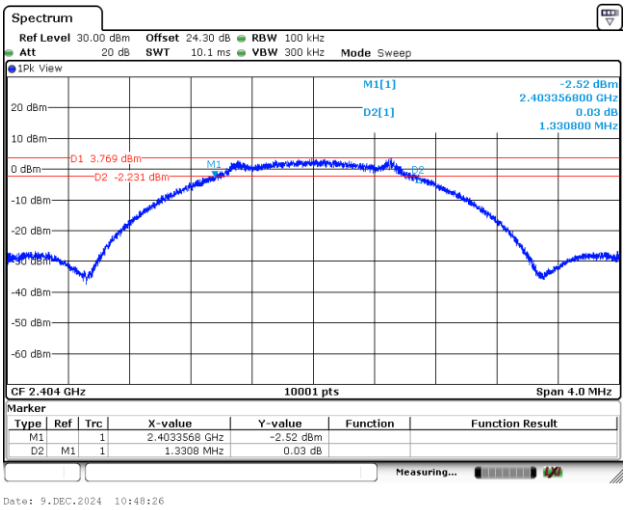
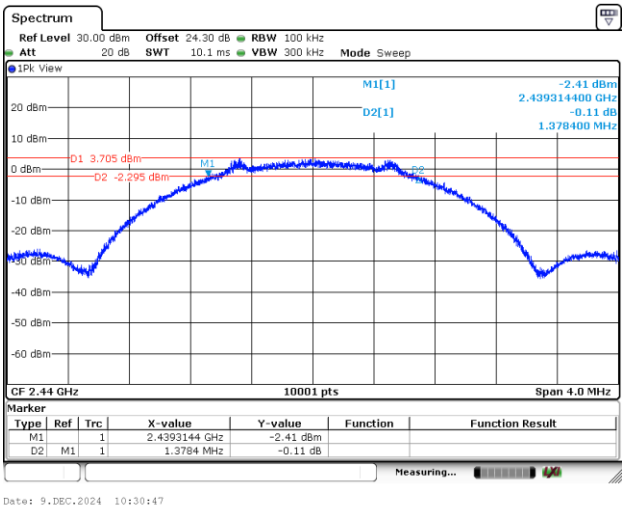
6 dB Bandwidth Plot on Channel 01	6 dB Bandwidth Plot on Channel 19
	
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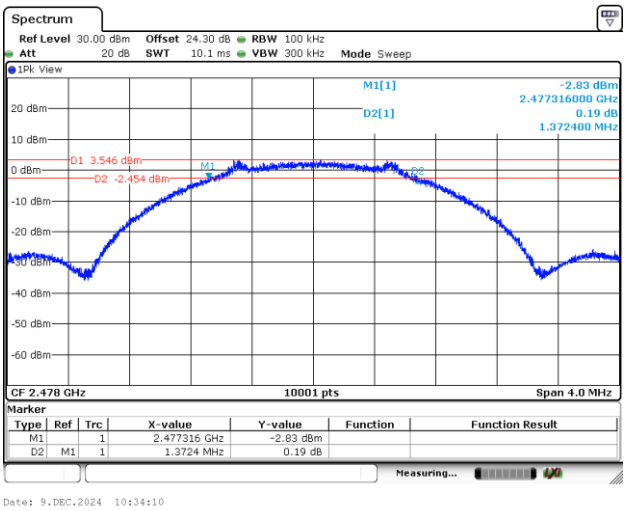	

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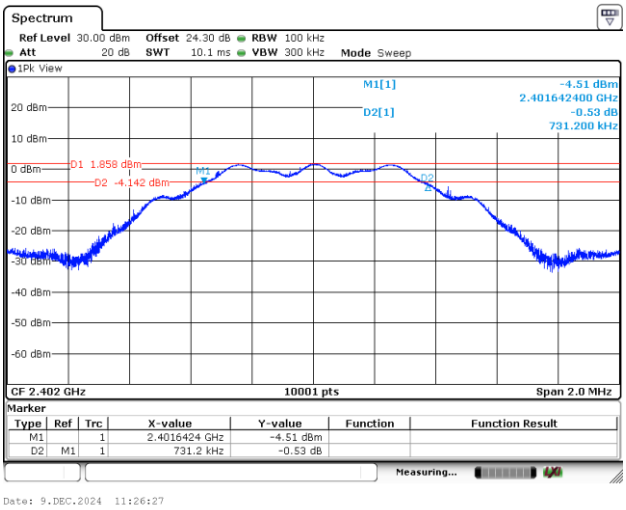	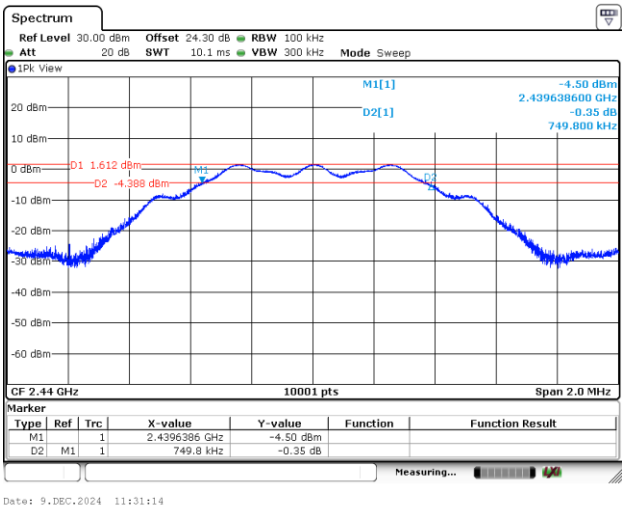
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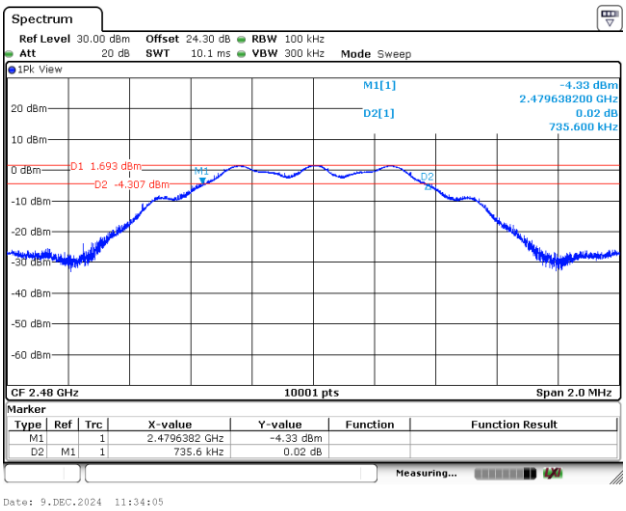	

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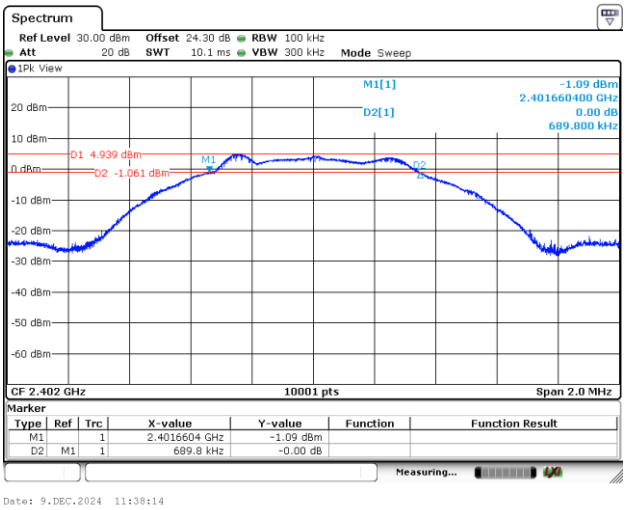	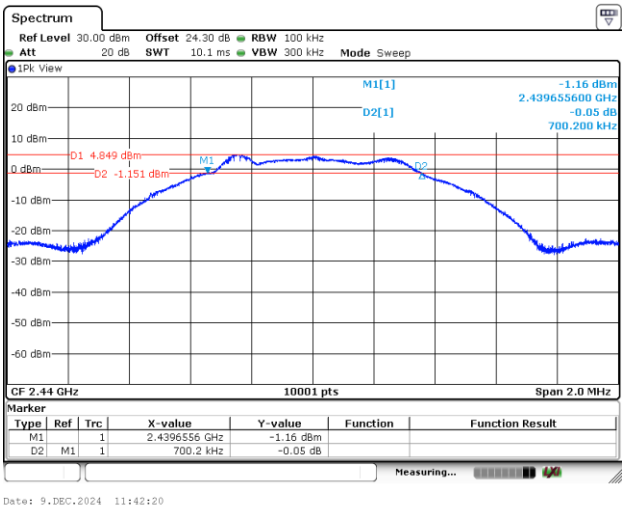
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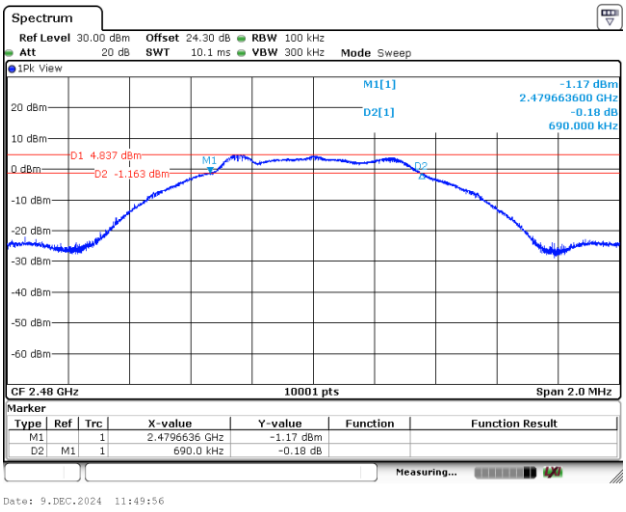	

99% Occupied Bandwidth

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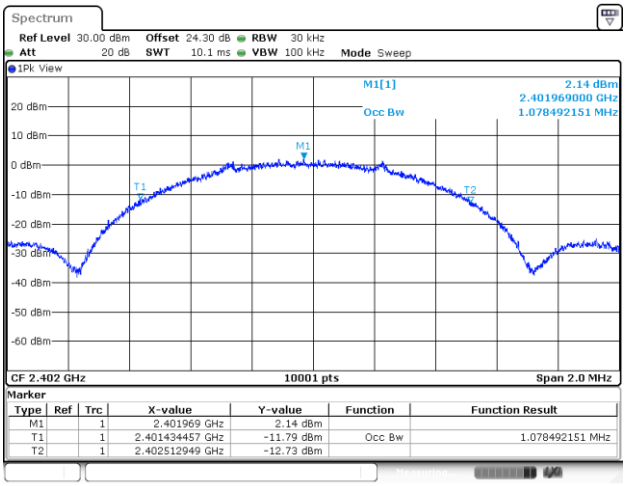
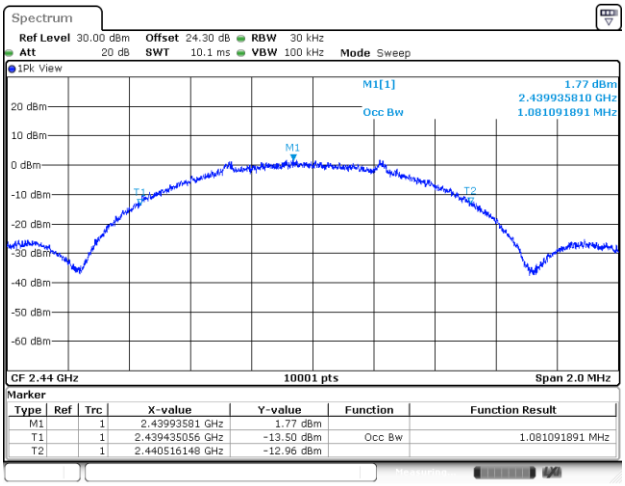
99% Occupied Bandwidth Plot on Channel 00	99% Occupied Bandwidth Plot on Channel 19
	
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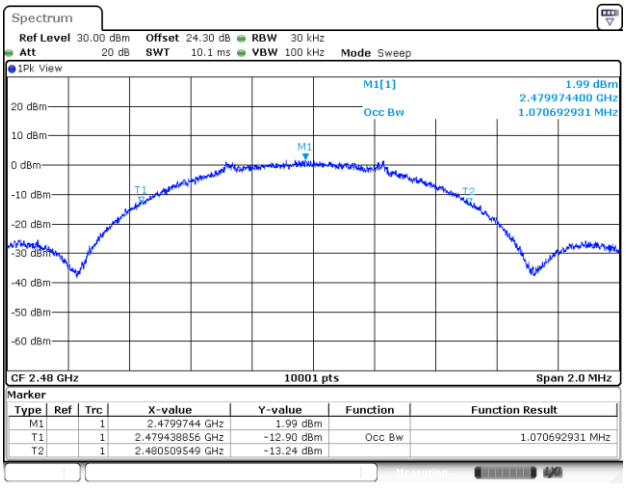	

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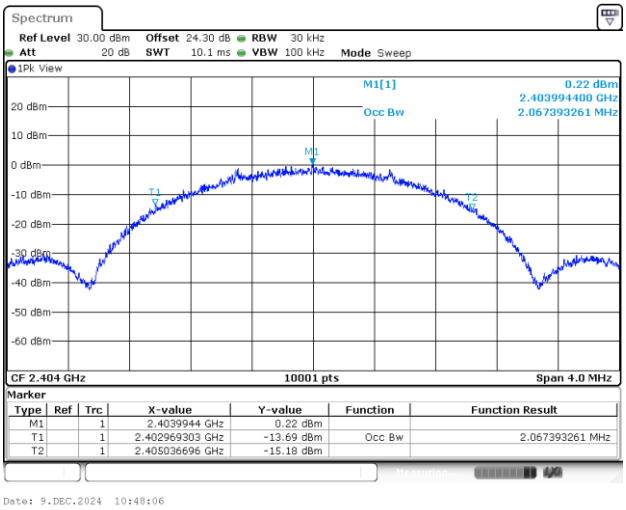	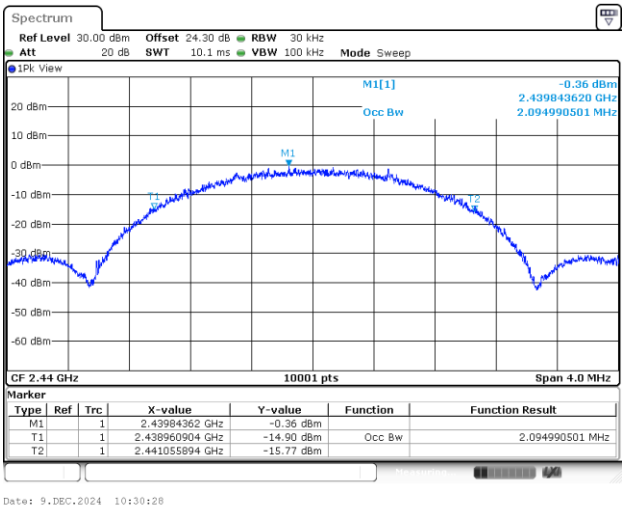
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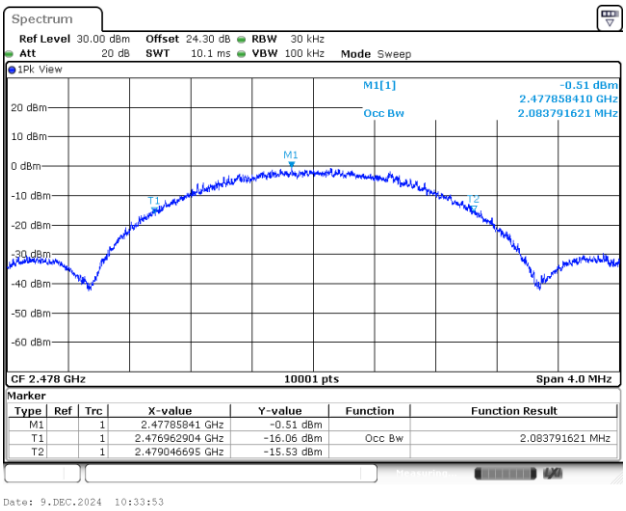	

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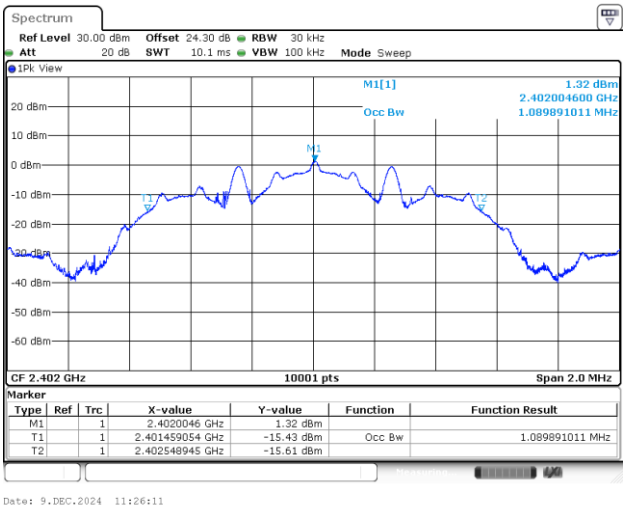
99% Occupied Bandwidth Plot on Channel 00



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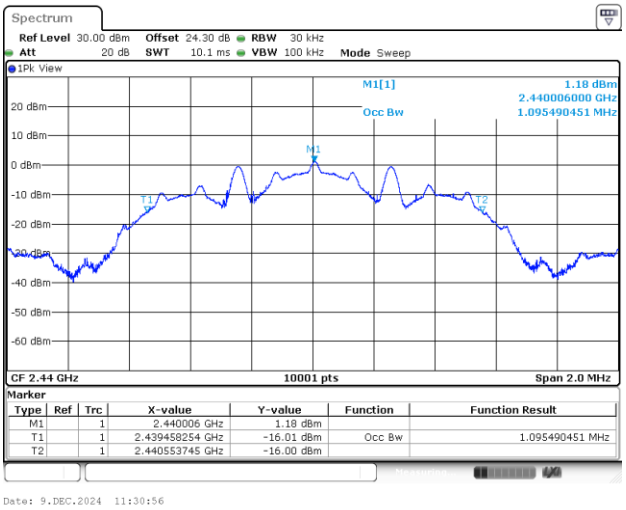
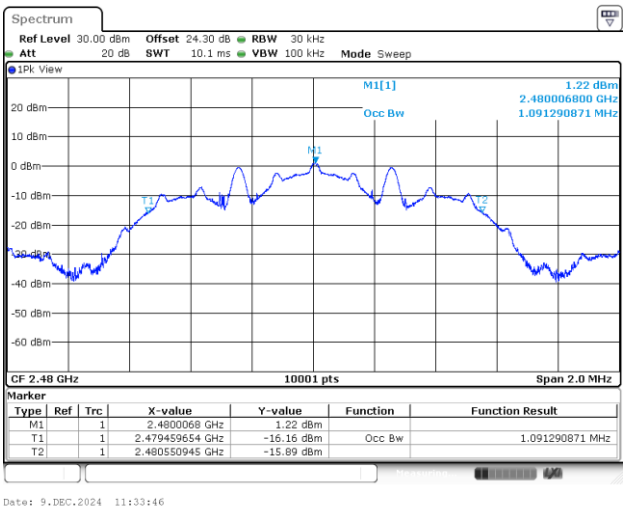


99% Occupied Bandwidth Plot on Channel 39



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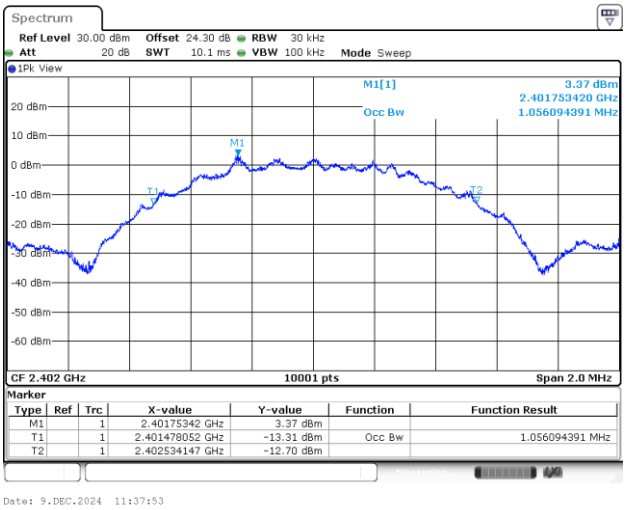
99% Occupied Bandwidth Plot on Channel 00



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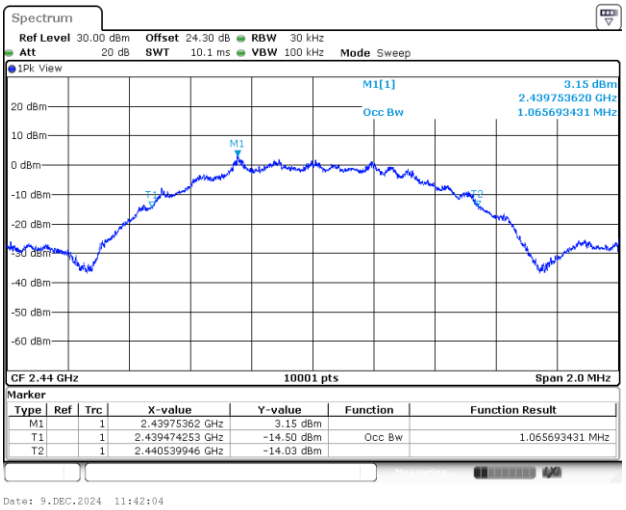
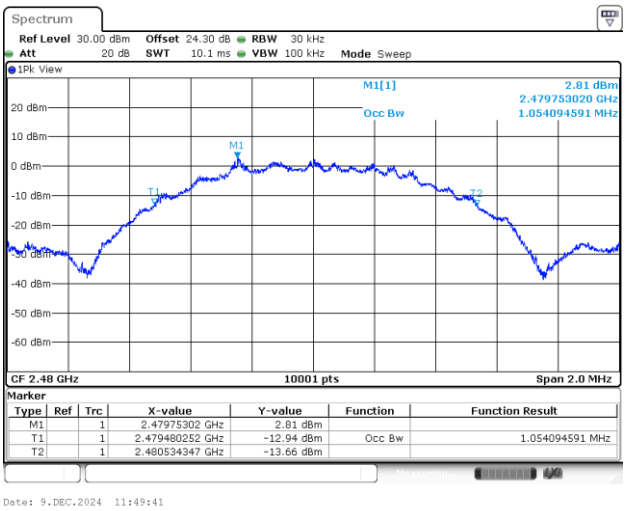


99% Occupied Bandwidth Plot on Channel 39



Power Spectral Density (dBm/3kHz)

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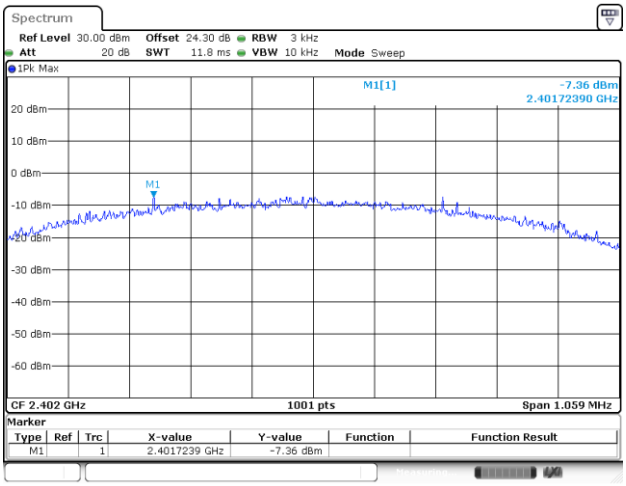
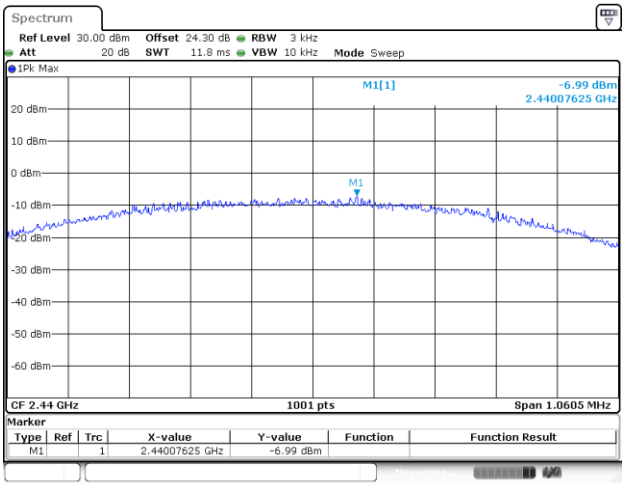
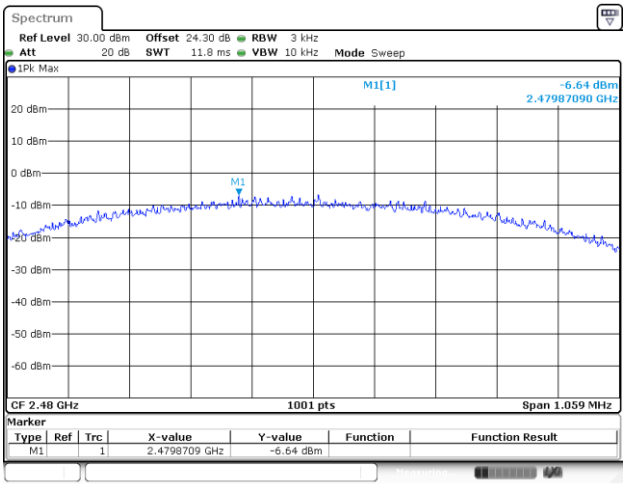
Power Density (dBm/3kHz) Plot Channel 00	Power Density (dBm/3kHz) Plot Channel 19
	
Power Density (dBm/3kHz) Plot Channel 39	
	

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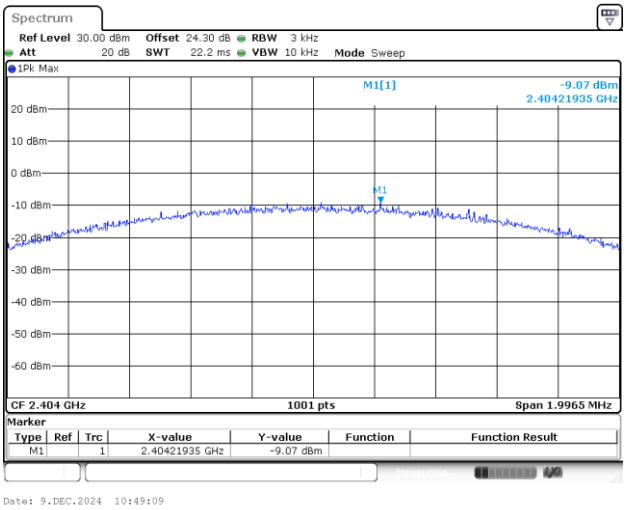
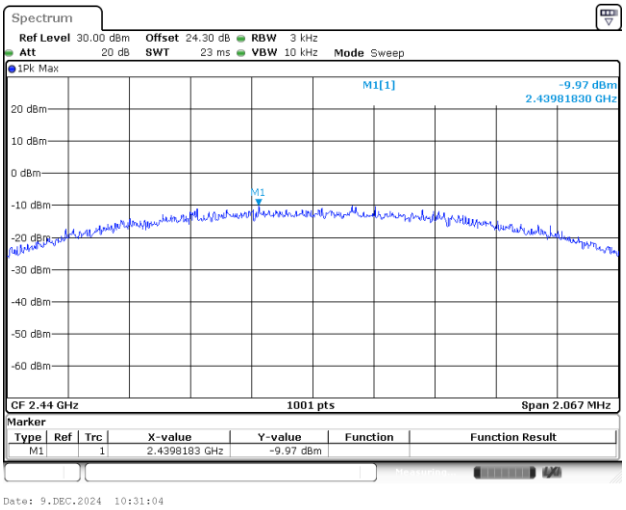
Power Density (dBm/3kHz) Plot Channel 01	Power Density (dBm/3kHz) Plot Channel 19
	
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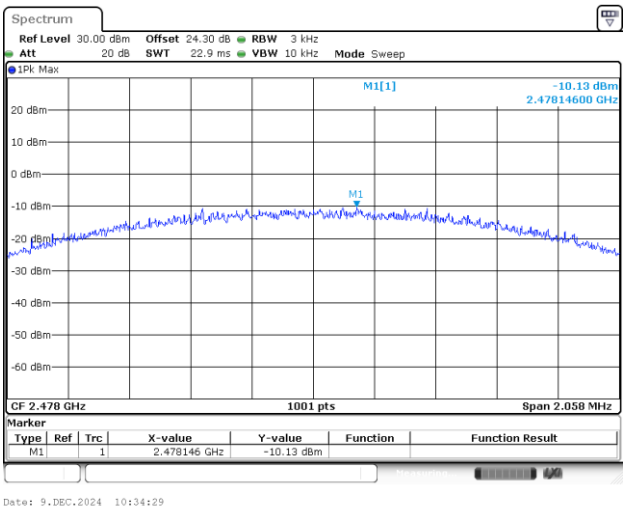	

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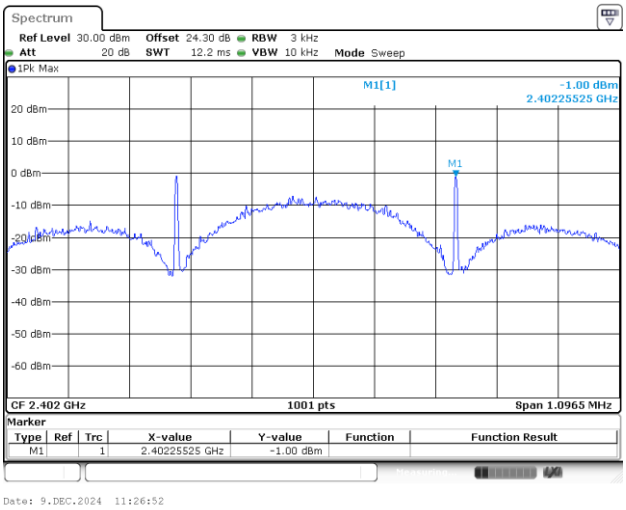
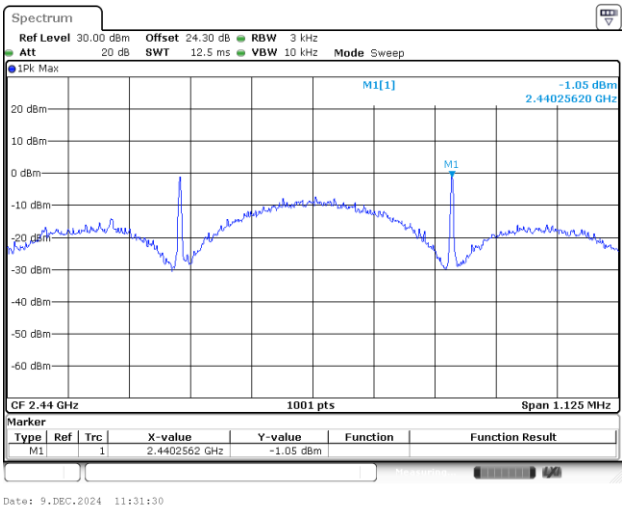
Power Density (dBm/3kHz) Plot Channel 00	Power Density (dBm/3kHz) Plot Channel 19
	
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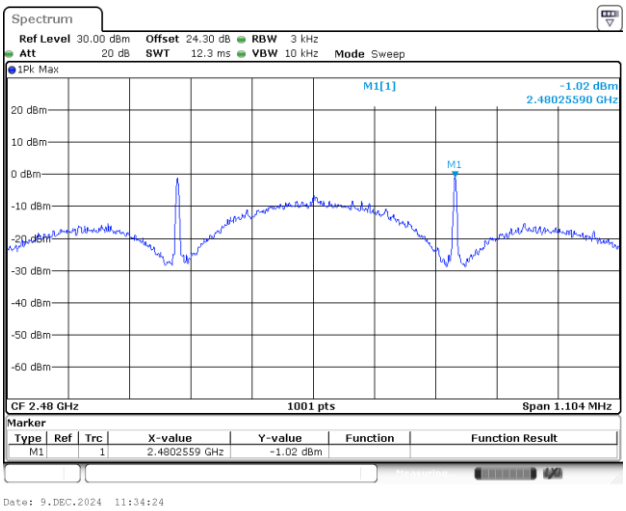	

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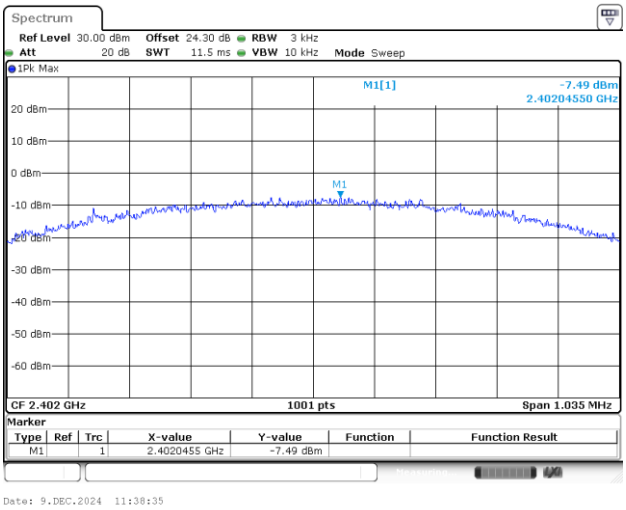
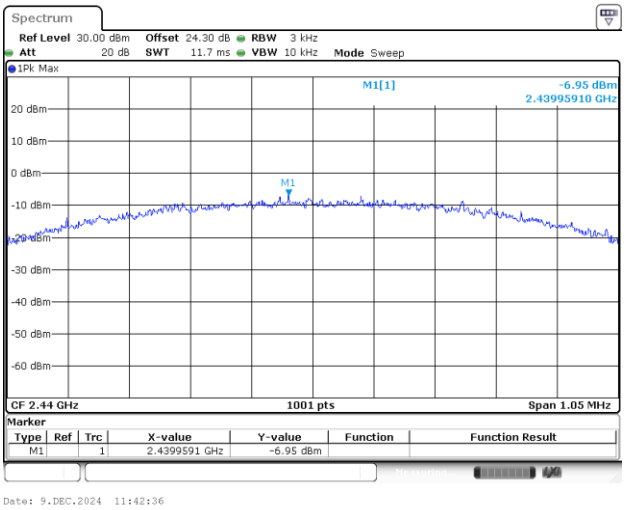
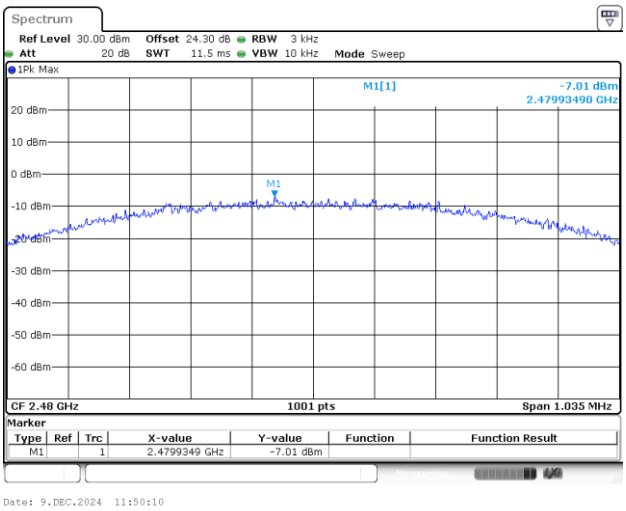
Power Density (dBm/3kHz) Plot Channel 00	Power Density (dBm/3kHz) Plot Channel 19
	
Power Density (dBm/3kHz) Plot Channel 39	
	

Band Edge and Conducted Spurious Emission

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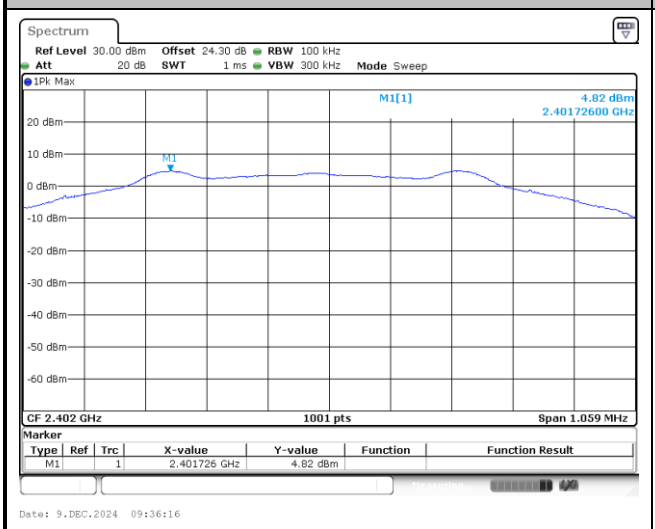
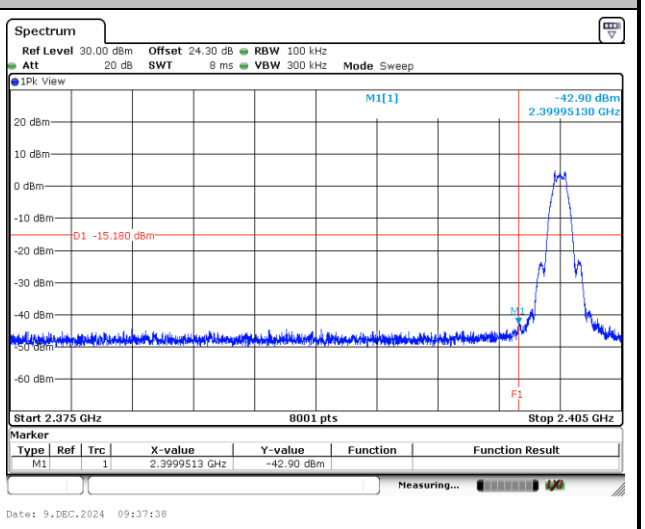
Channel 00

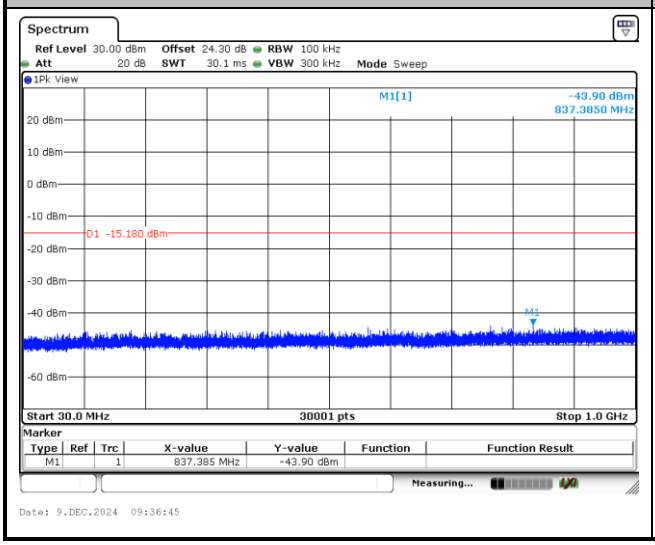
100kHz PSD reference Level Plot



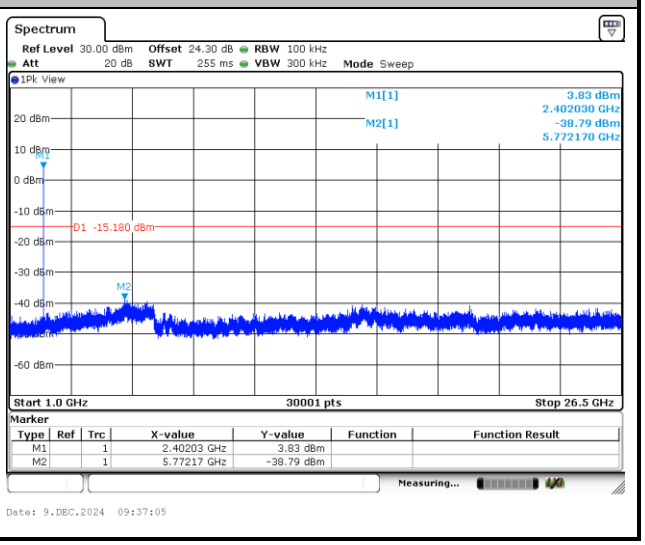
Low Channel Plot

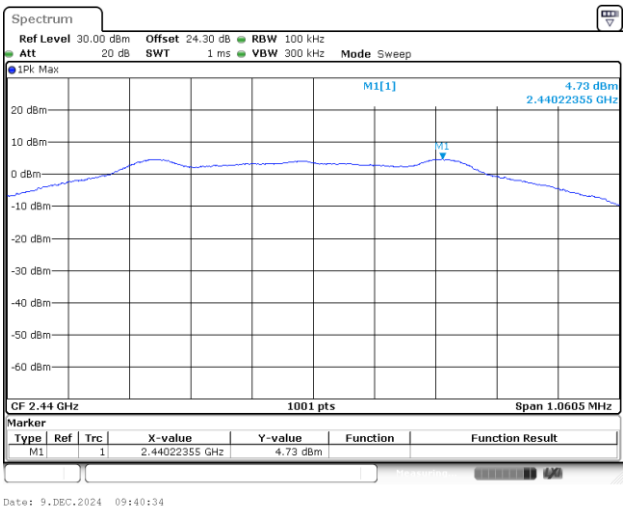
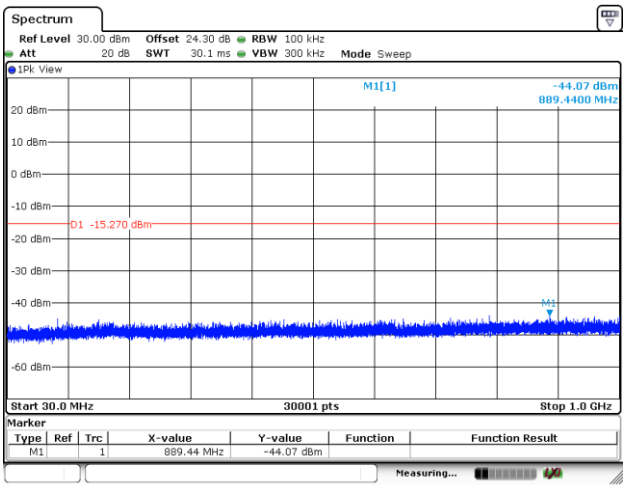
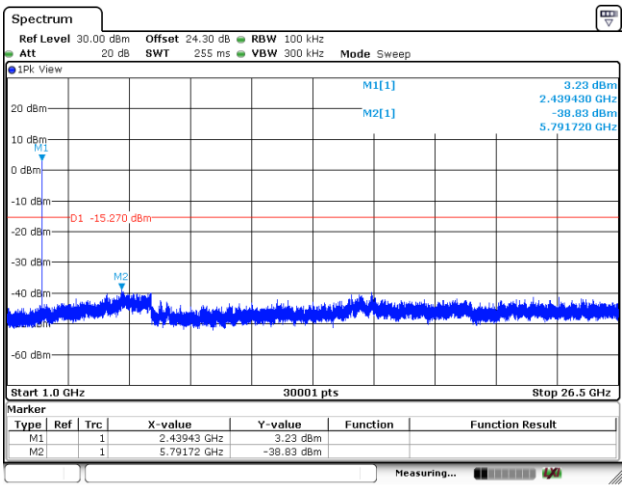


Spurious Emission 30MHz~1GHz Plot



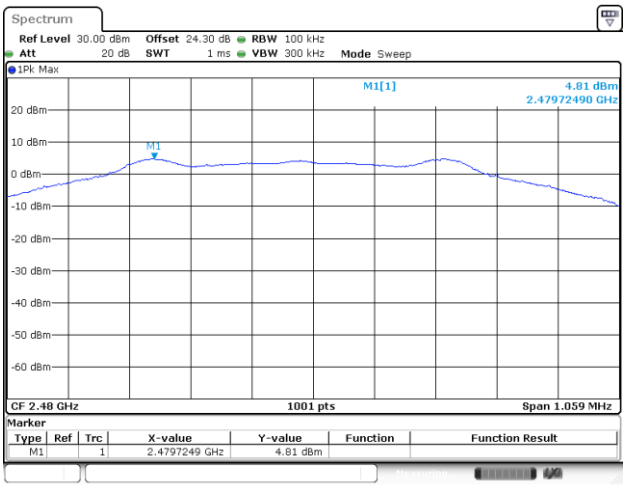
Spurious Emission 1GHz~26.5GHz Plot



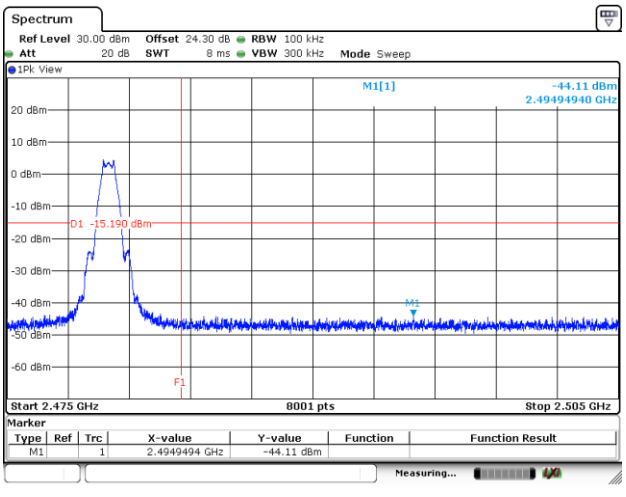
Channel 19	
100kHz PSD reference Level Plot	**Mid Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 39

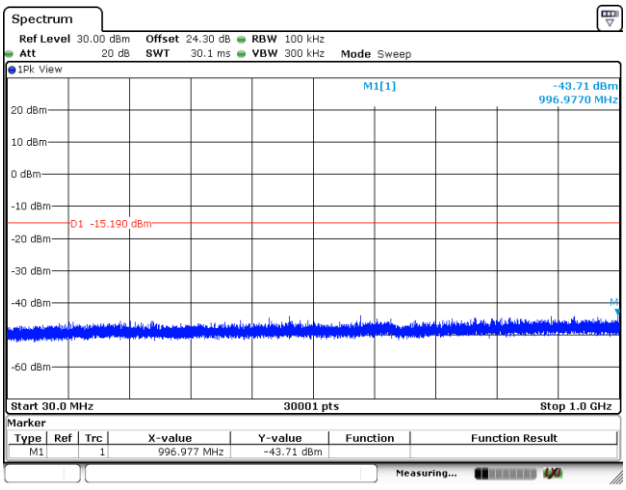
100kHz PSD reference Level Plot



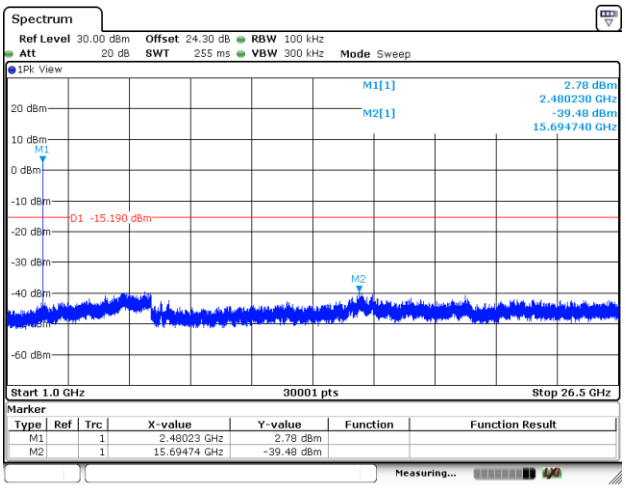
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



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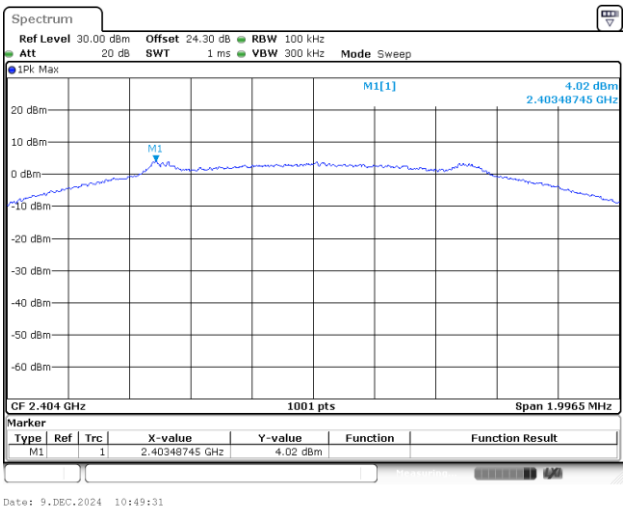
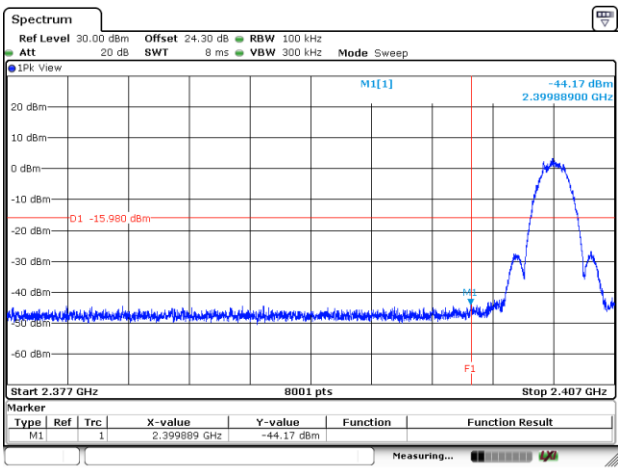
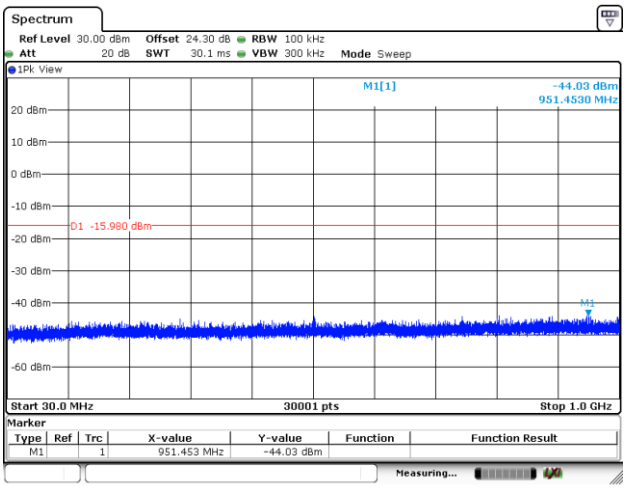
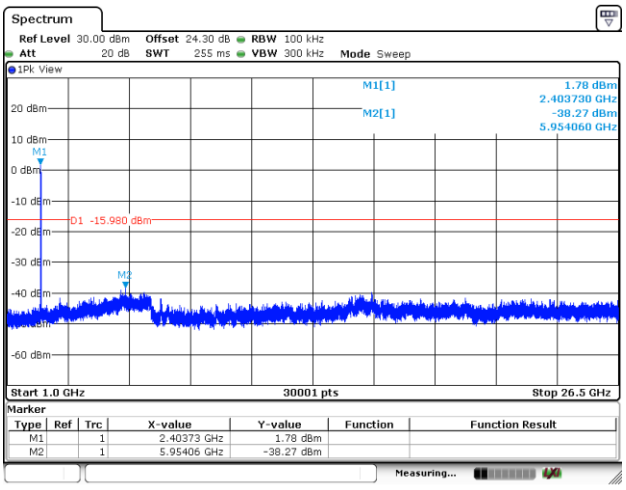
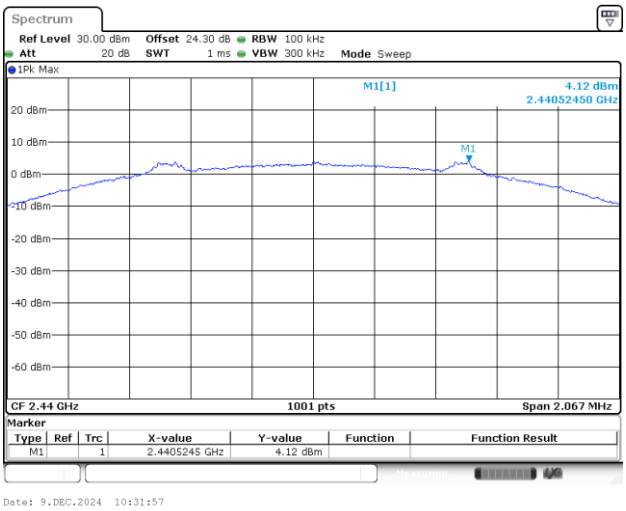
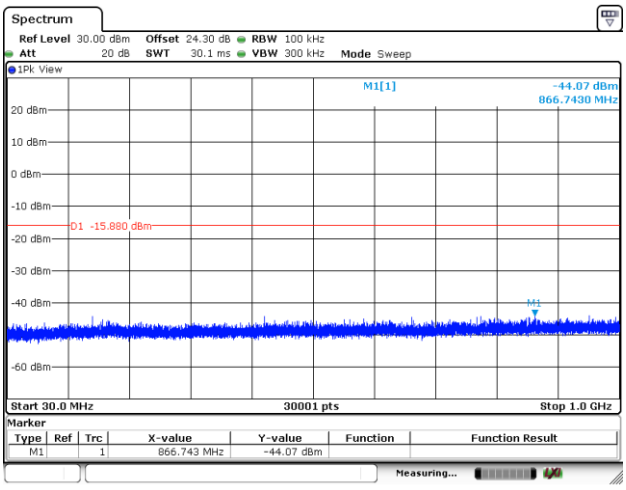
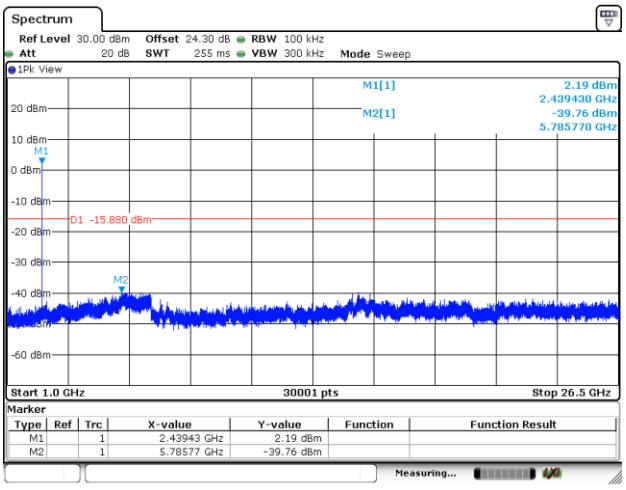
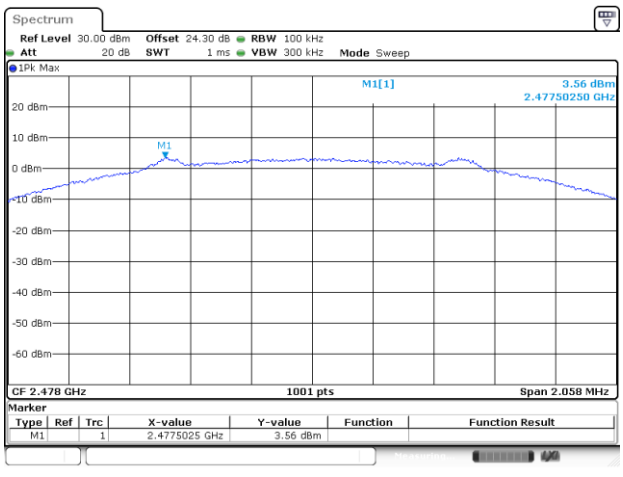
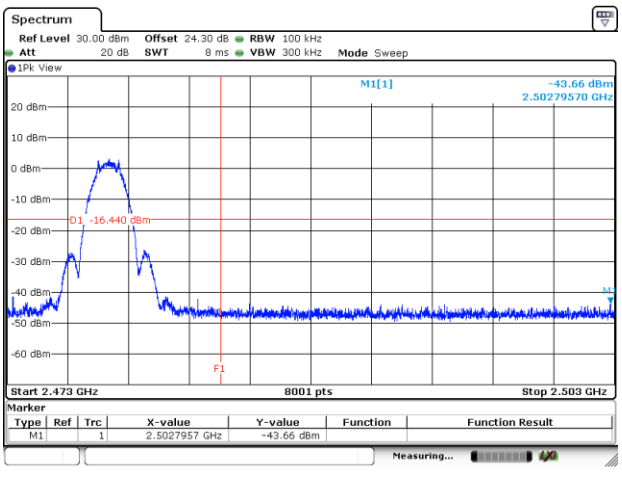
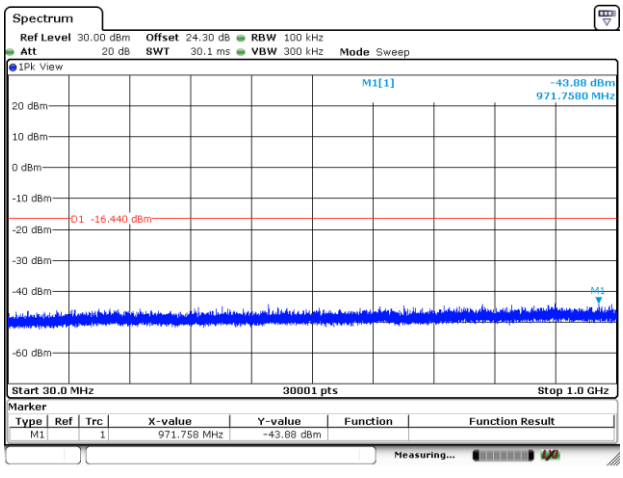
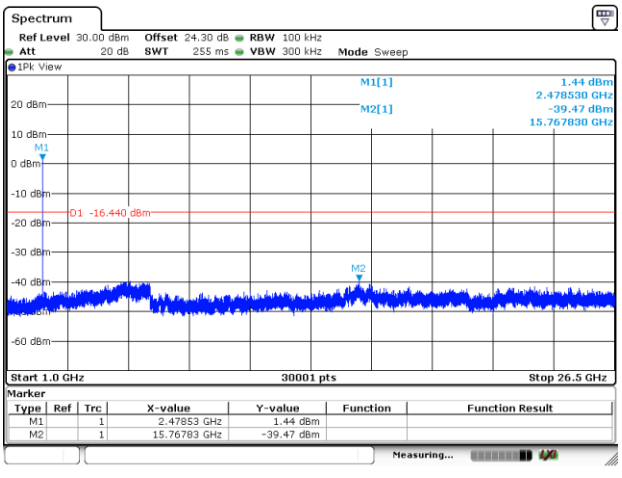
Channel 01	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 19	
100kHz PSD reference Level Plot	**Mid Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 38	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

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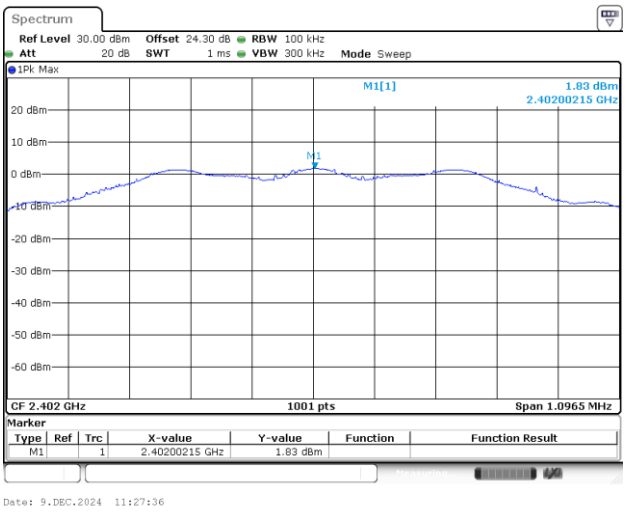
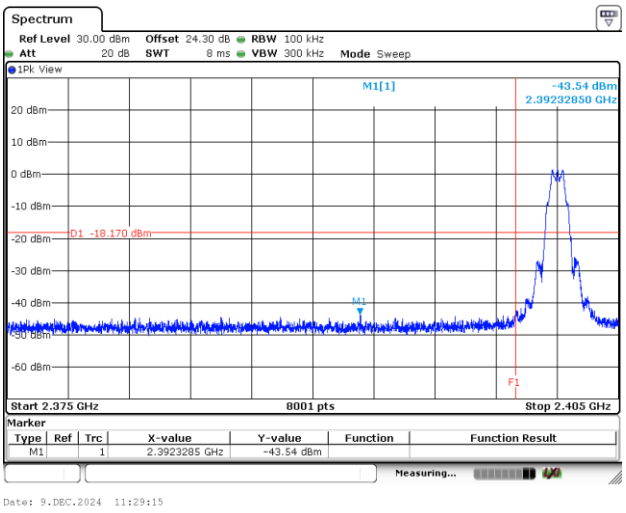
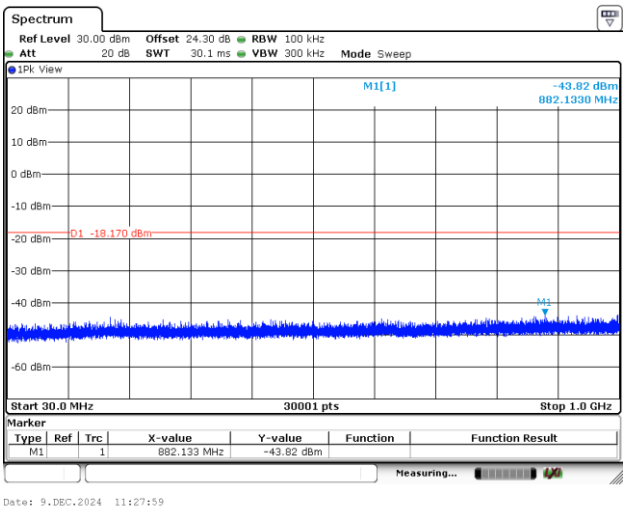
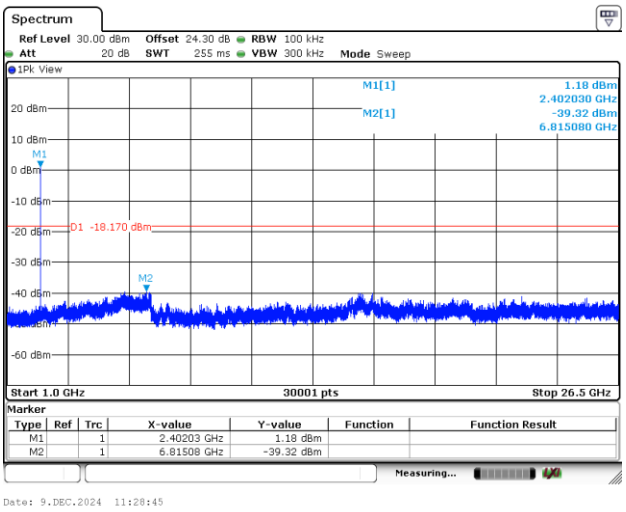
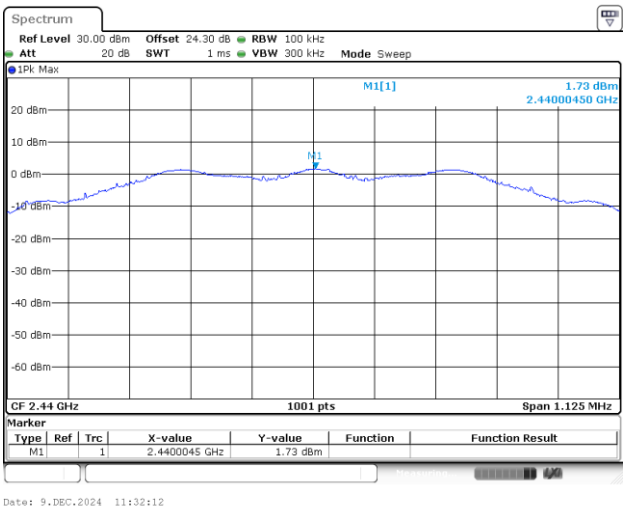
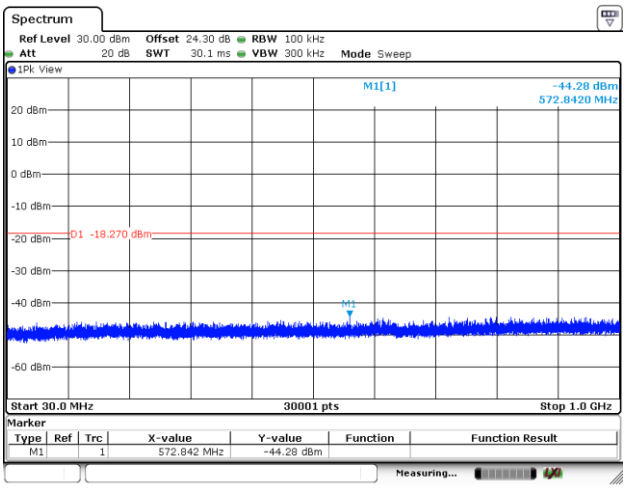
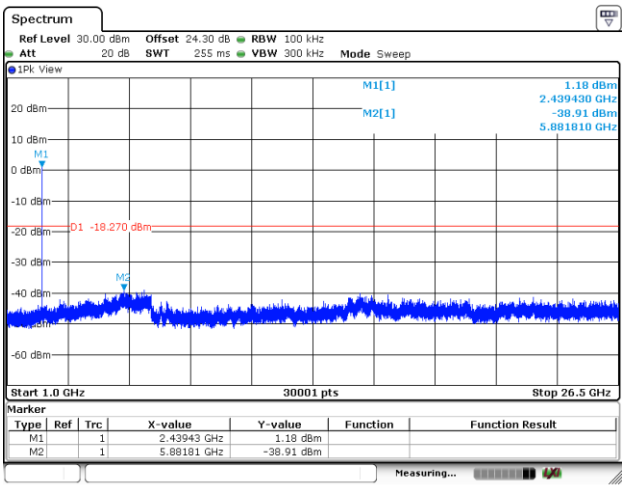
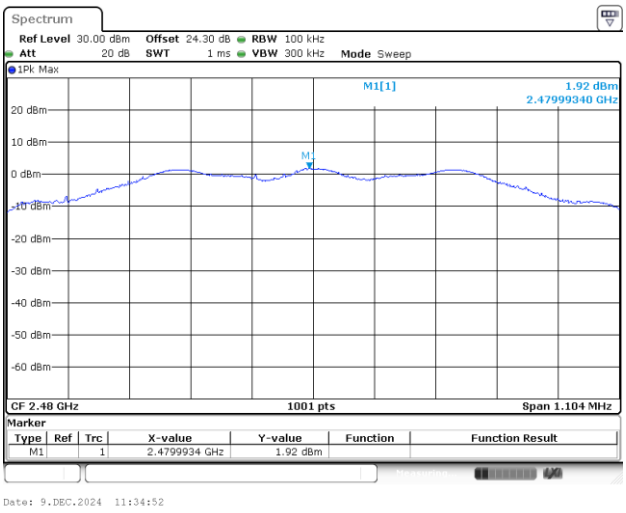
Channel 00	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

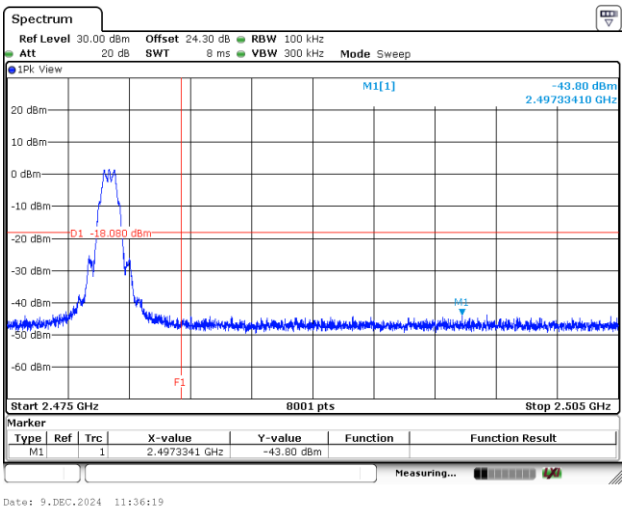
Channel 19	
100kHz PSD reference Level Plot	**Mid Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 39

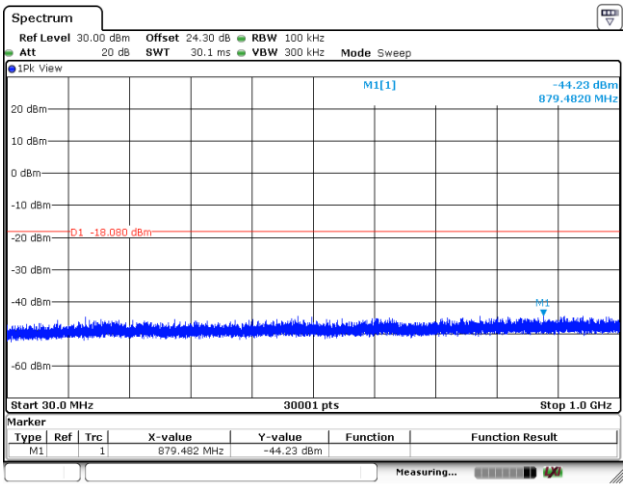
100kHz PSD reference Level Plot



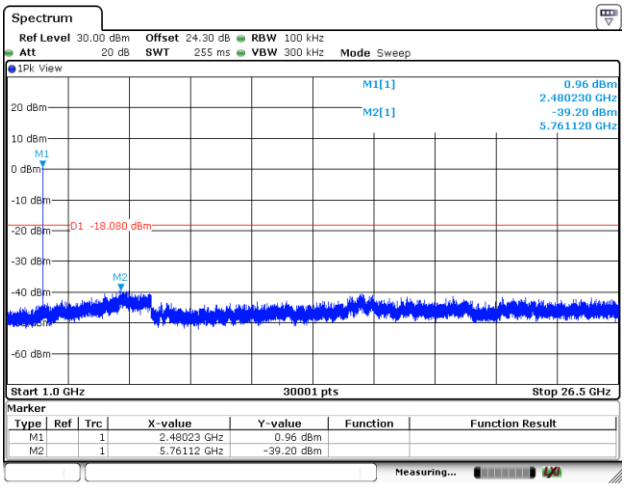
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



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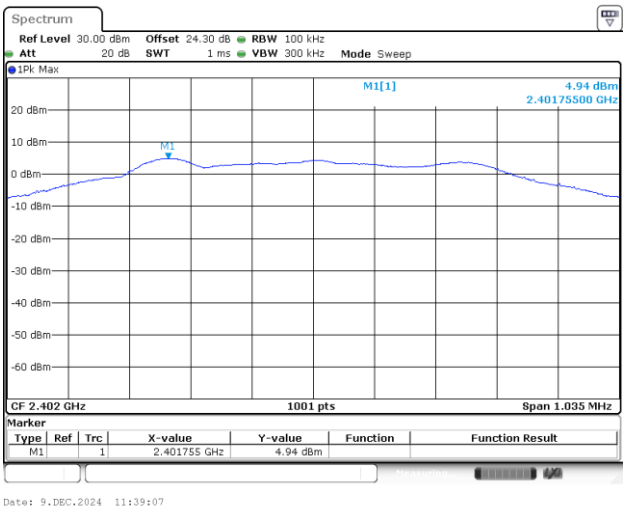
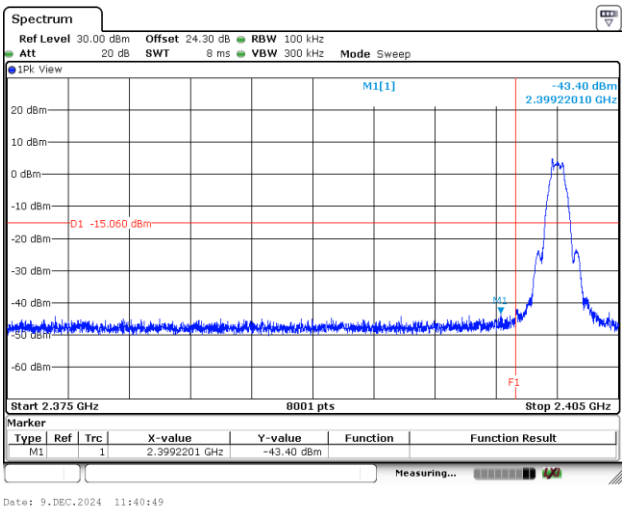
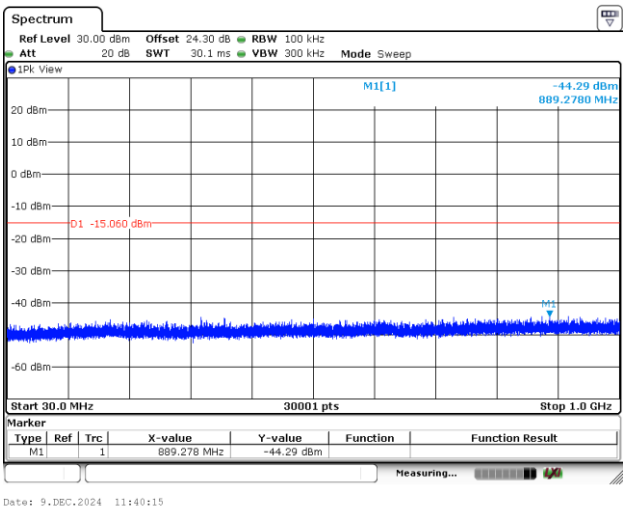
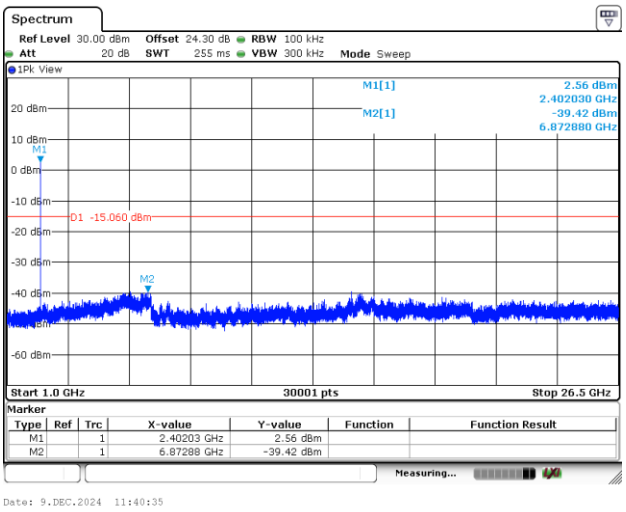
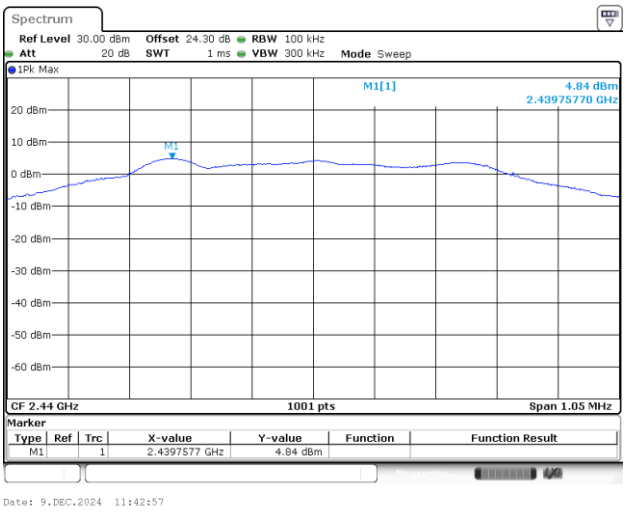
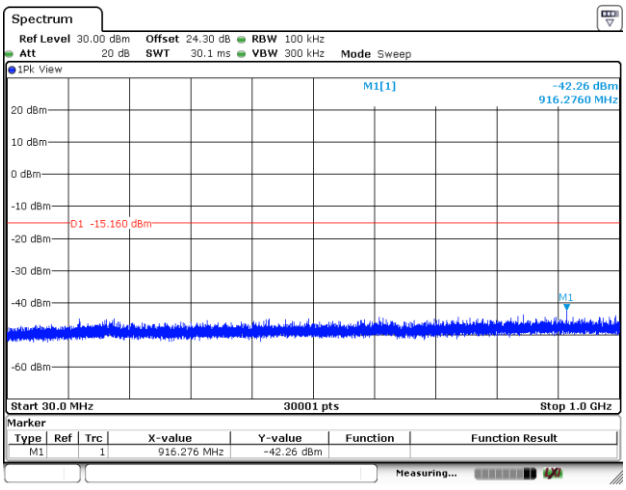
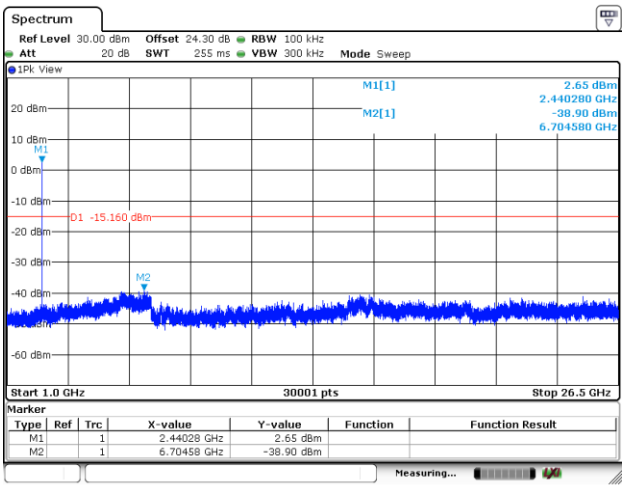
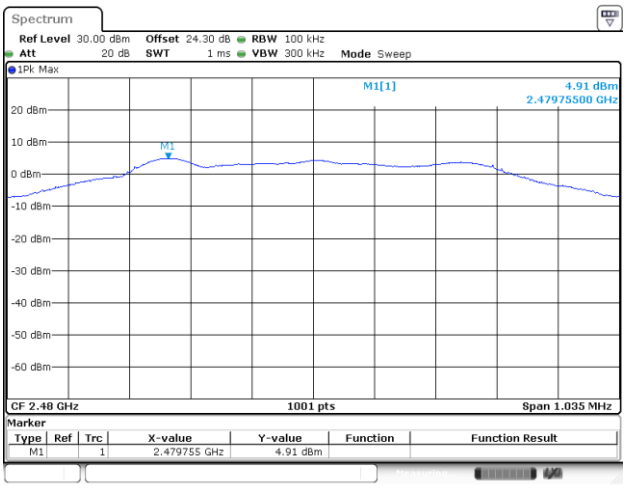
Channel 00	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

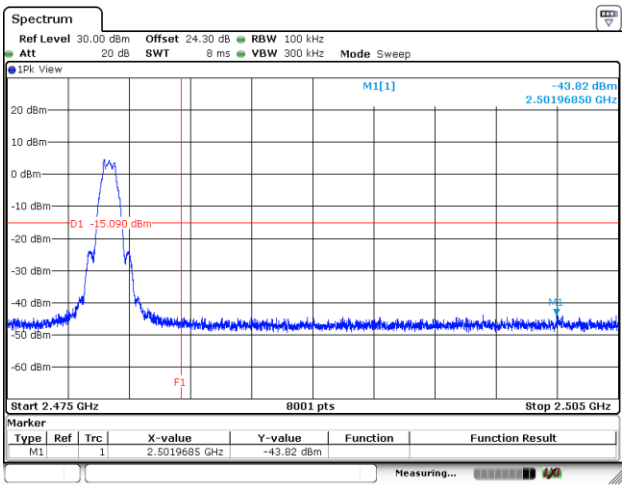
Channel 19	
100kHz PSD reference Level Plot	**Mid Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 39

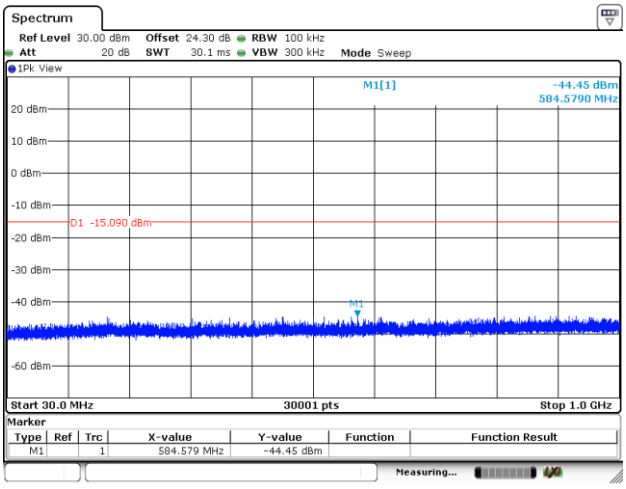
100kHz PSD reference Level Plot



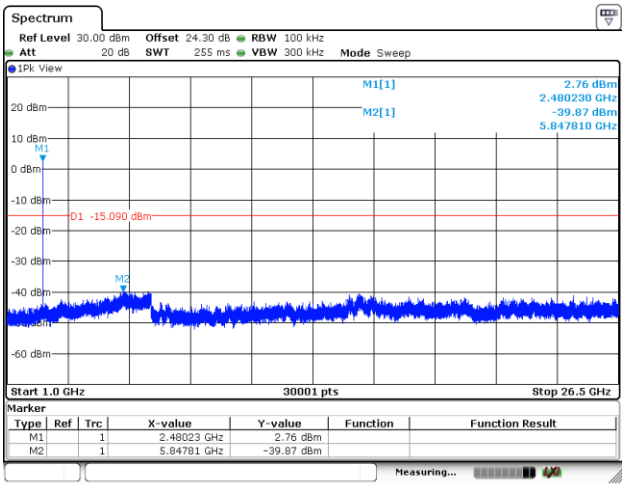
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



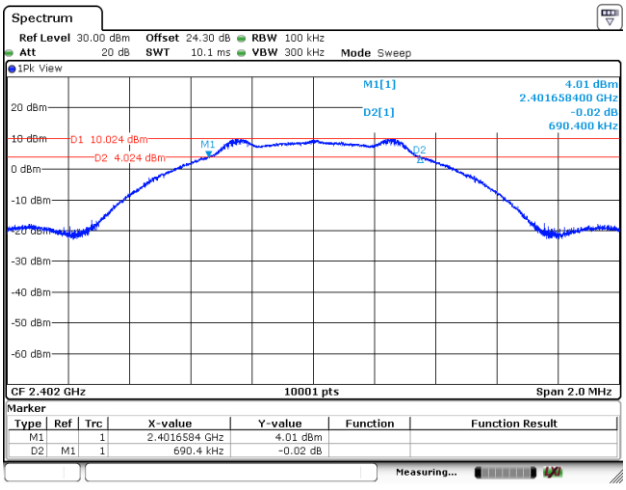
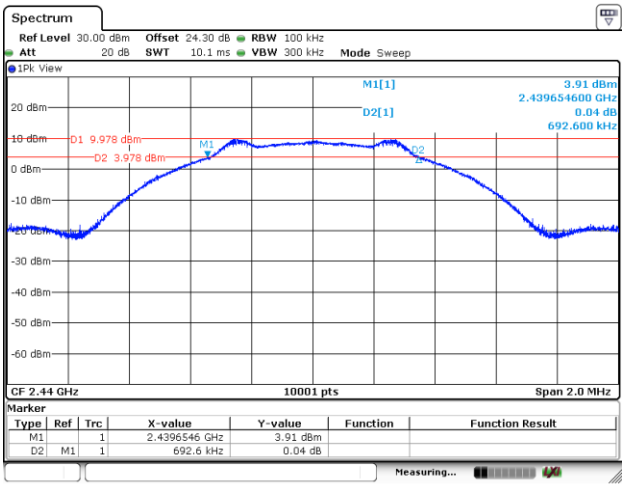
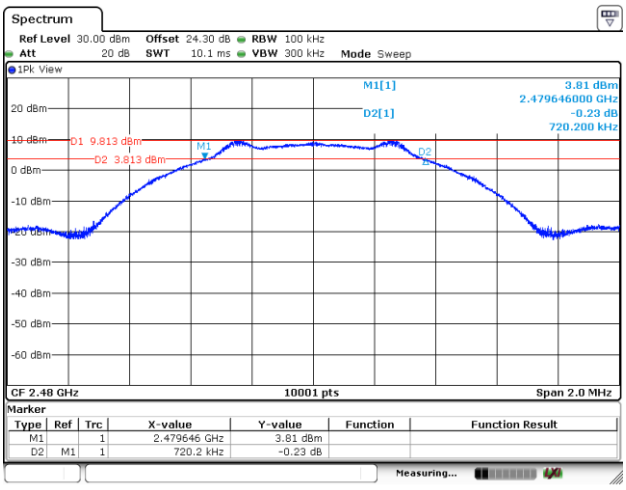
Spurious Emission 1GHz~26.5GHz Plot



<10dBm>

6dB Bandwidth

<1Mbps>

6 dB Bandwidth Plot on Channel 00	6 dB Bandwidth Plot on Channel 19
	
6 dB Bandwidth Plot on Channel 39	
	

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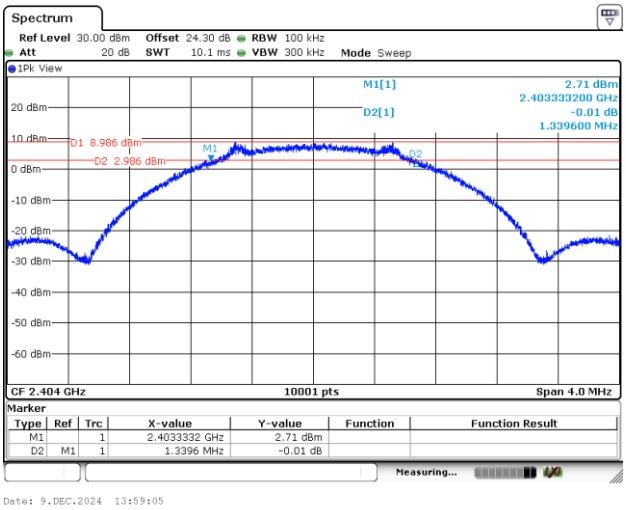
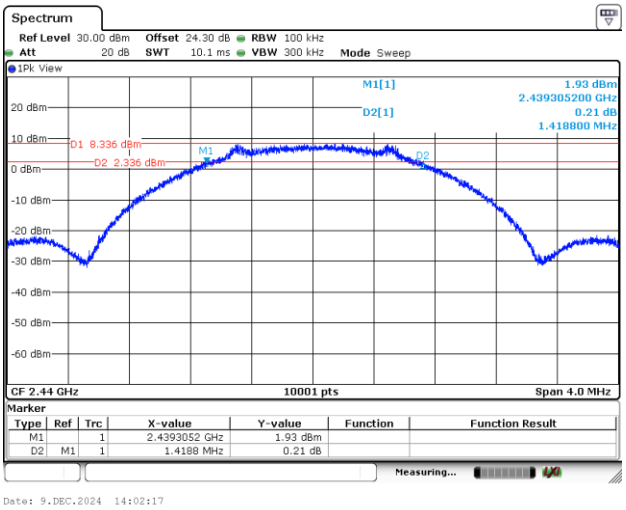
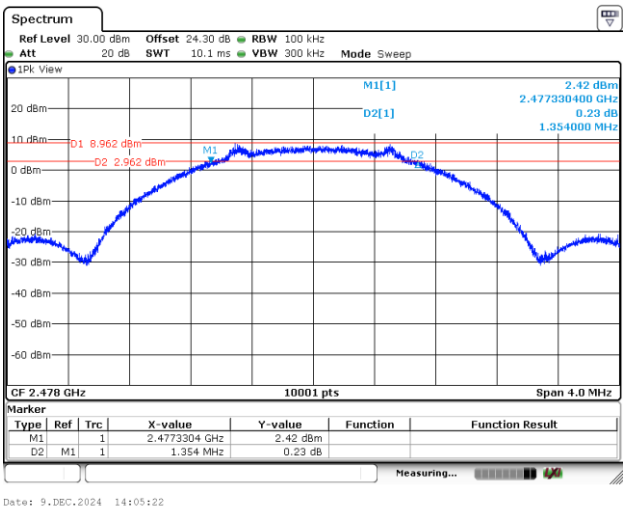
6 dB Bandwidth Plot on Channel 01	6 dB Bandwidth Plot on Channel 19
	
6 dB Bandwidth Plot on Channel 38	
	

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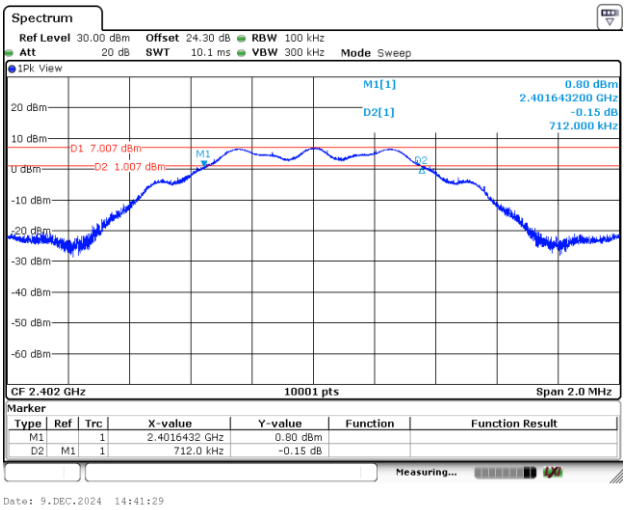
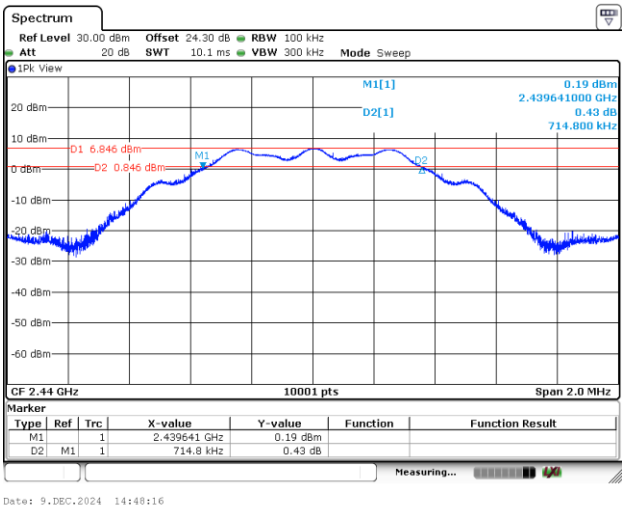
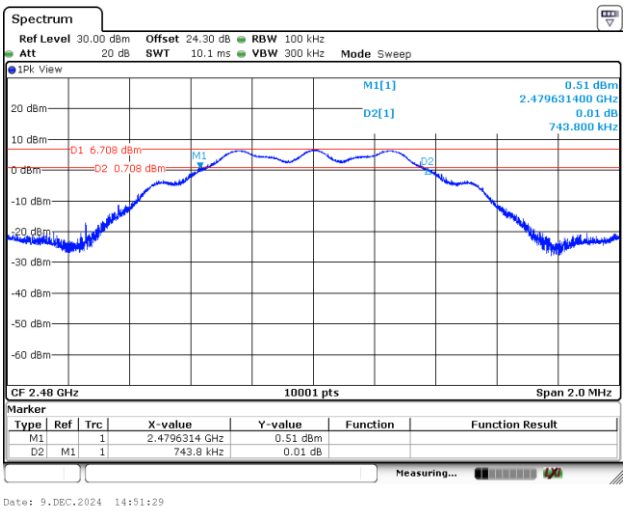
6 dB Bandwidth Plot on Channel 00	6 dB Bandwidth Plot on Channel 19
	
6 dB Bandwidth Plot on Channel 39	
	

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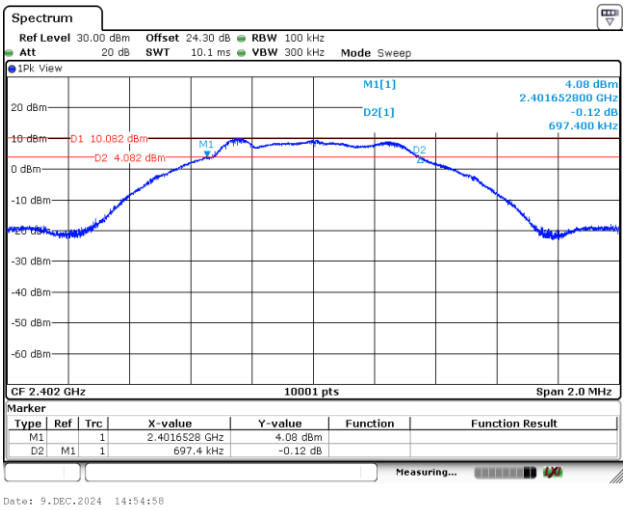
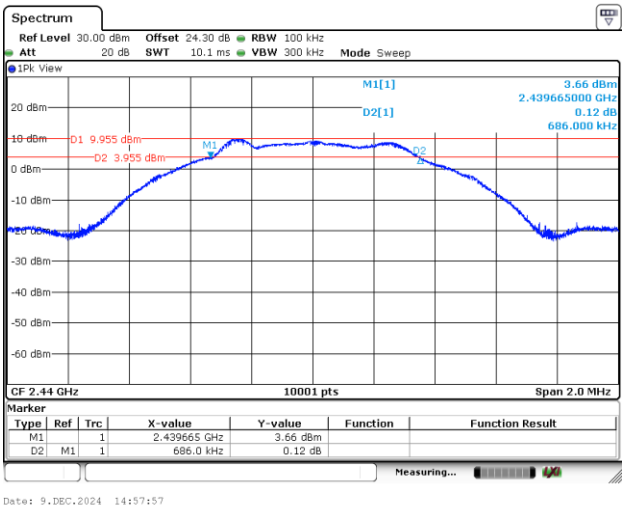
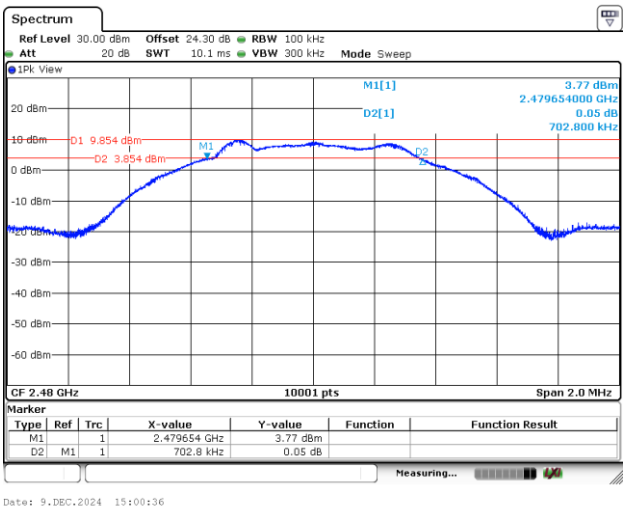
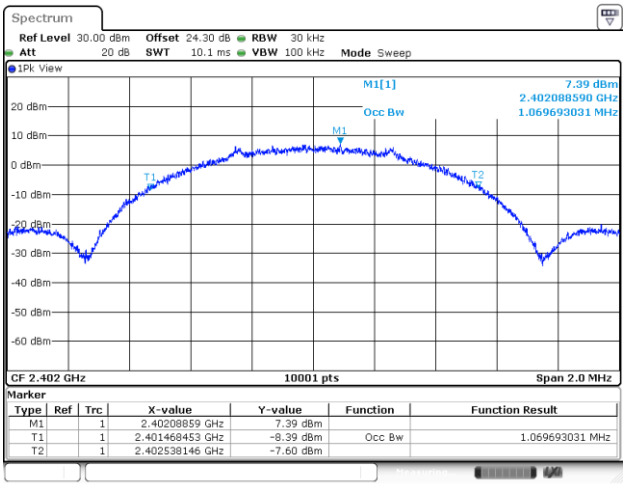
6 dB Bandwidth Plot on Channel 00	6 dB Bandwidth Plot on Channel 19
	
6 dB Bandwidth Plot on Channel 39	
	

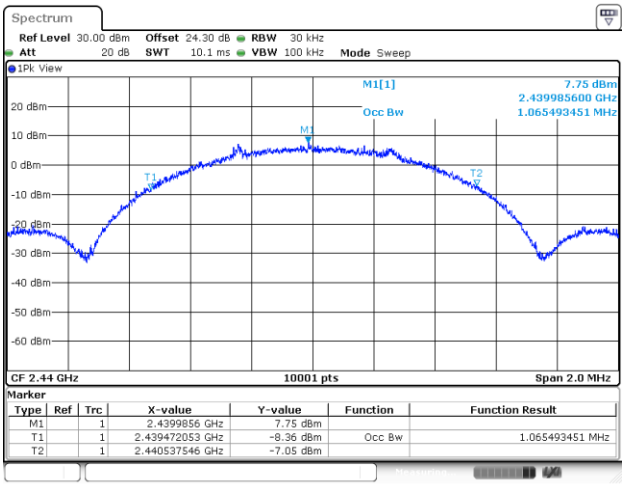
99% Occupied Bandwidth

<1Mbps>

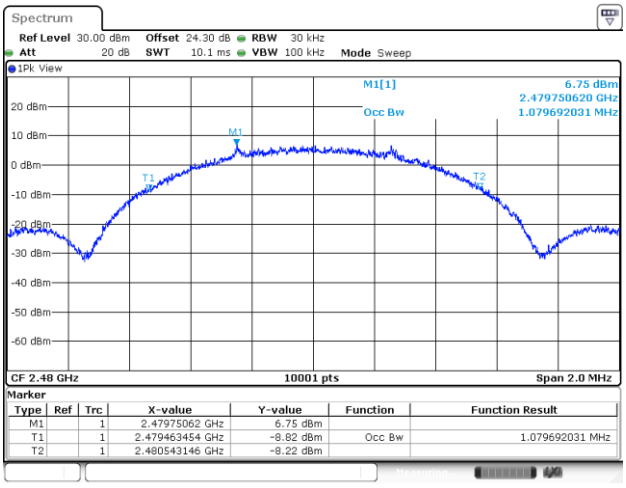
99% Occupied Bandwidth Plot on Channel 00



99% Occupied Bandwidth Plot on Channel 19



99% Occupied Bandwidth Plot on Channel 39



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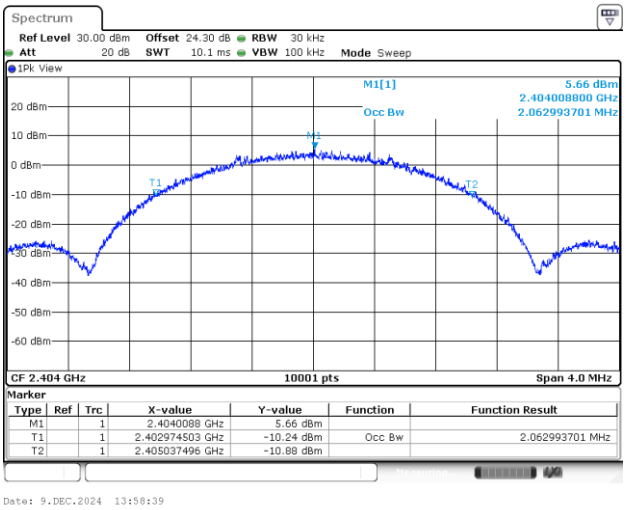
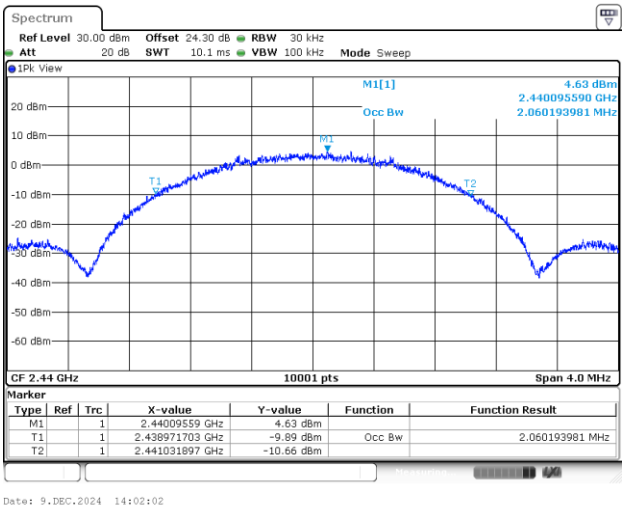
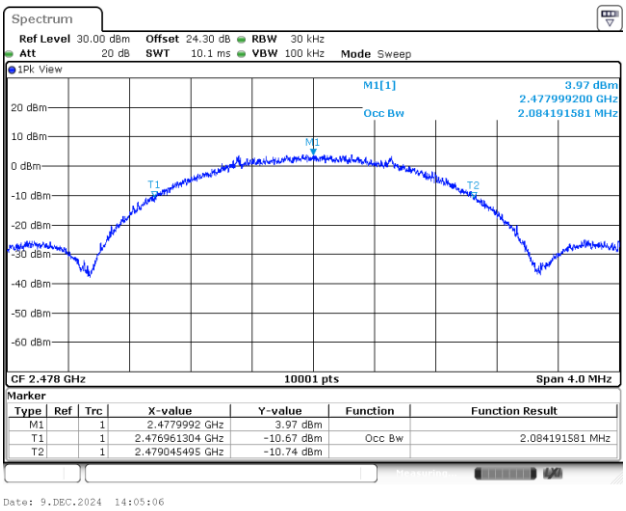
99% Occupied Bandwidth Plot on Channel 01	99% Occupied Bandwidth Plot on Channel 19
	
99% Occupied Bandwidth Plot on Channel 38	
	

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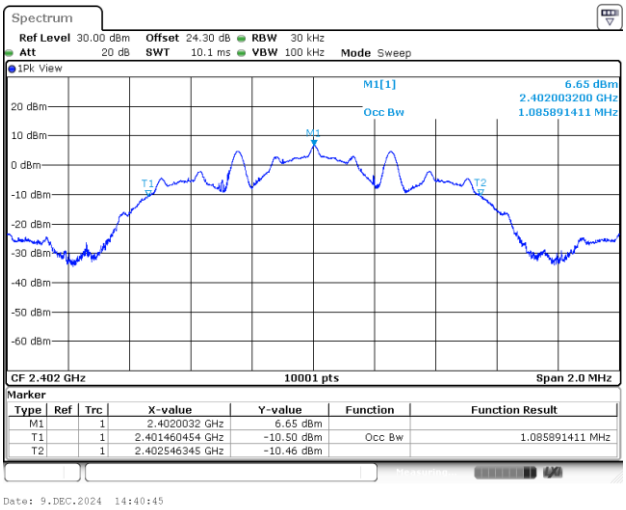
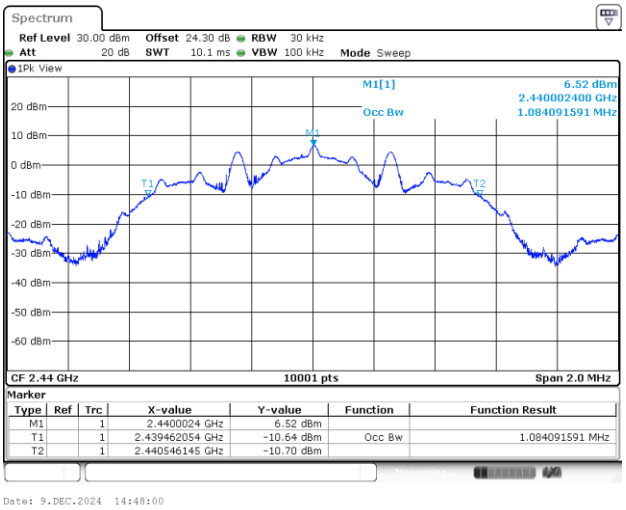
99% Occupied Bandwidth Plot on Channel 00	99% Occupied Bandwidth Plot on Channel 19
	
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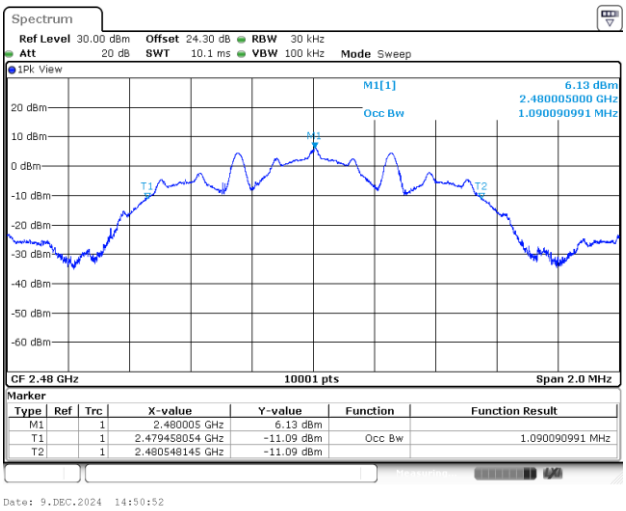	

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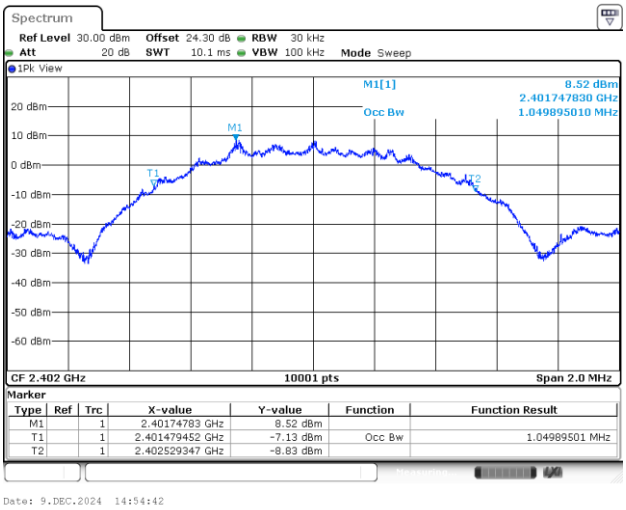	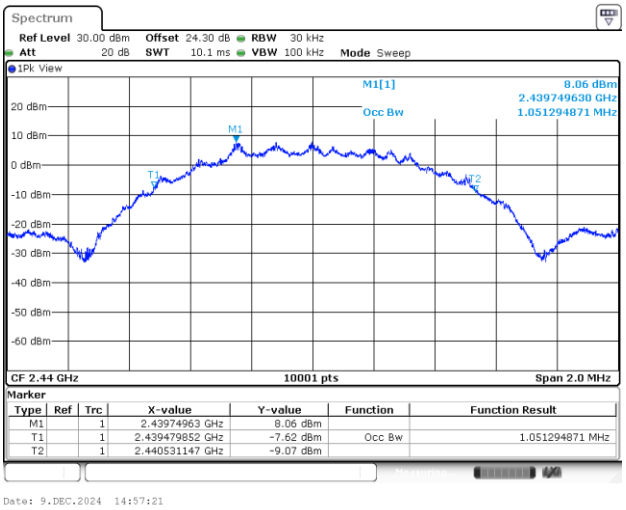
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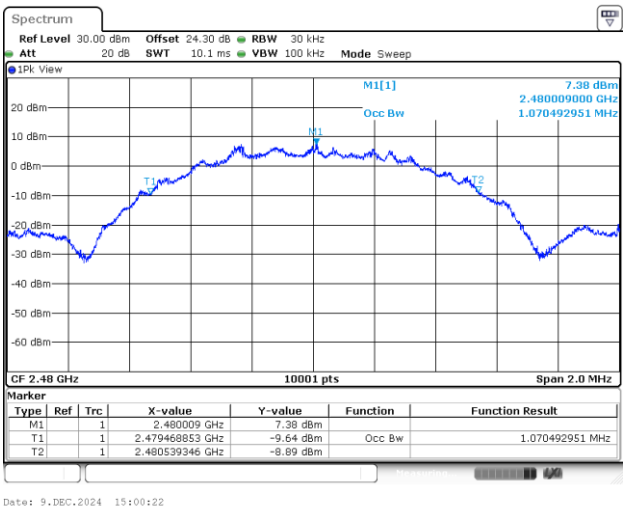	

Power Spectral Density (dBm/3kHz)

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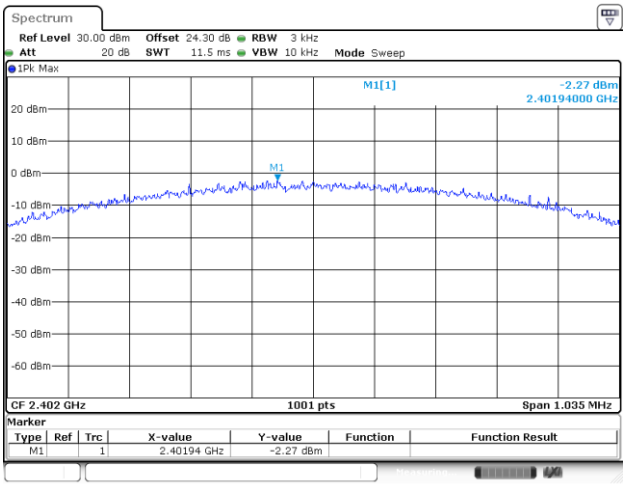
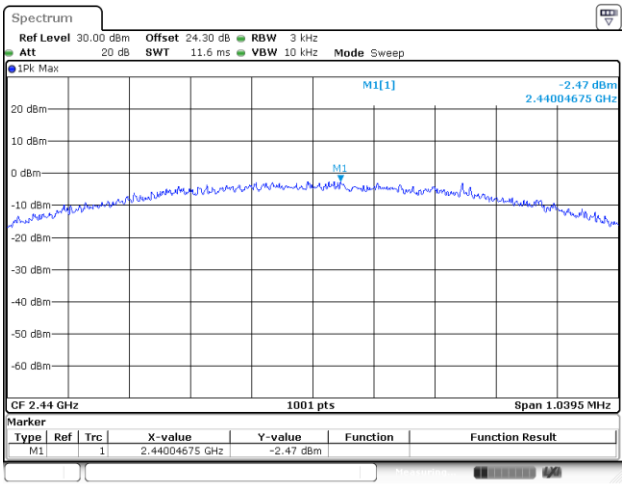
Power Density (dBm/3kHz) Plot Channel 00	Power Density (dBm/3kHz) Plot Channel 19
	
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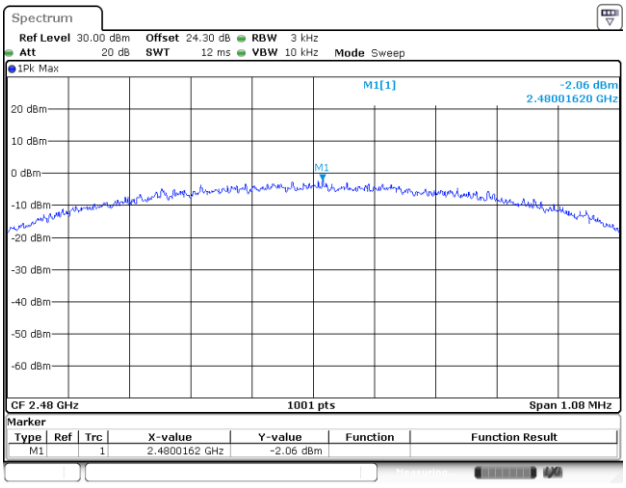	

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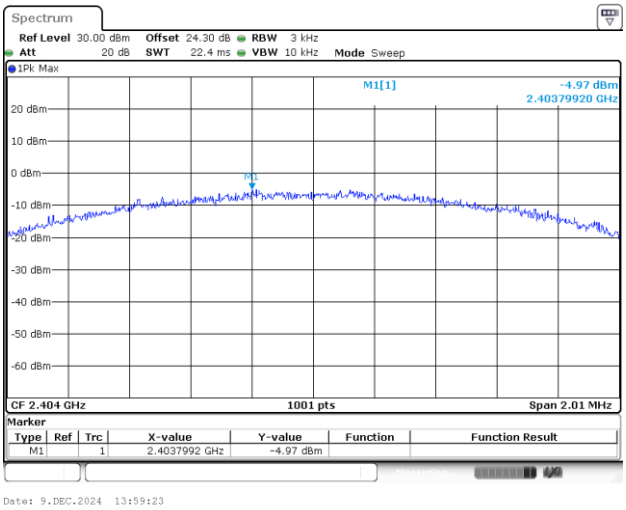
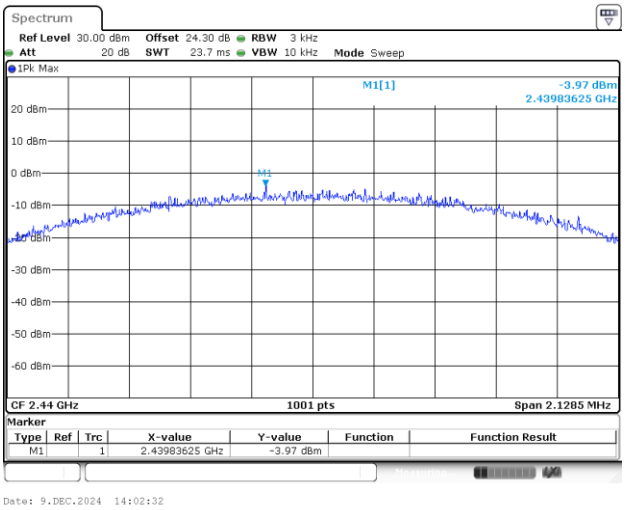
Power Density (dBm/3kHz) Plot Channel 01	Power Density (dBm/3kHz) Plot Channel 19
	
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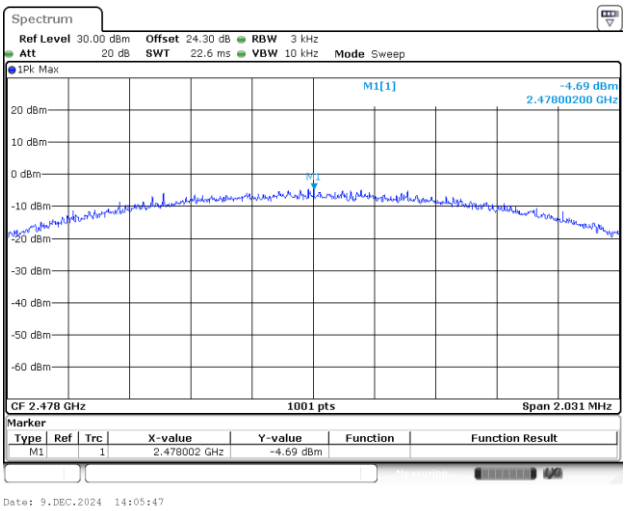	

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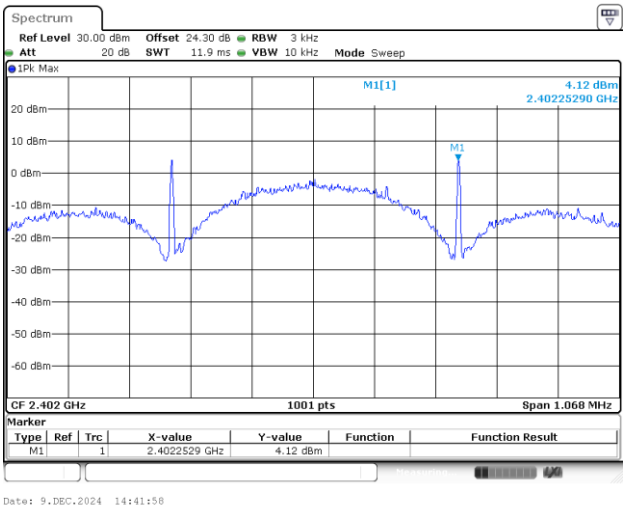
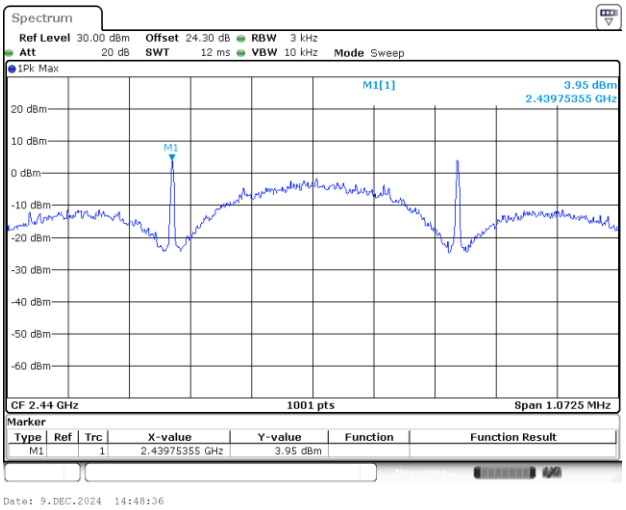
Power Density (dBm/3kHz) Plot Channel 00	Power Density (dBm/3kHz) Plot Channel 19
	
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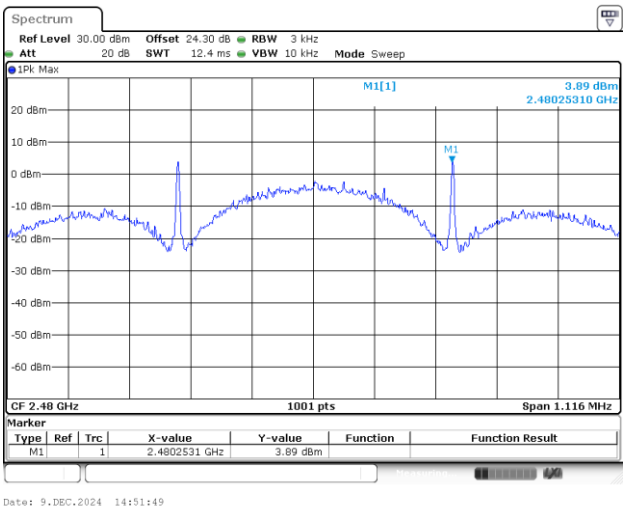	

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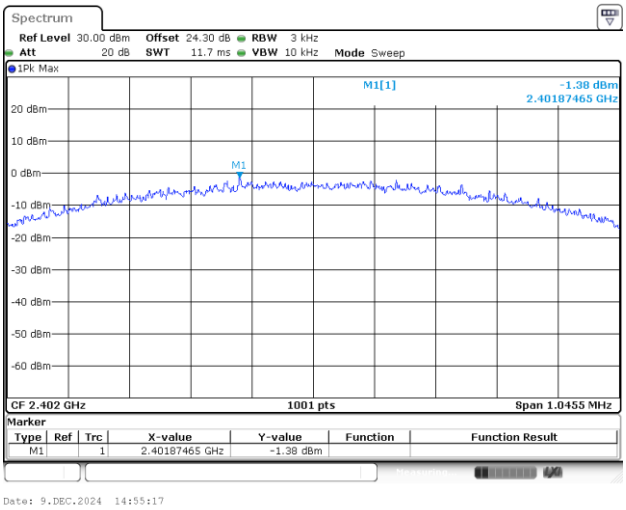
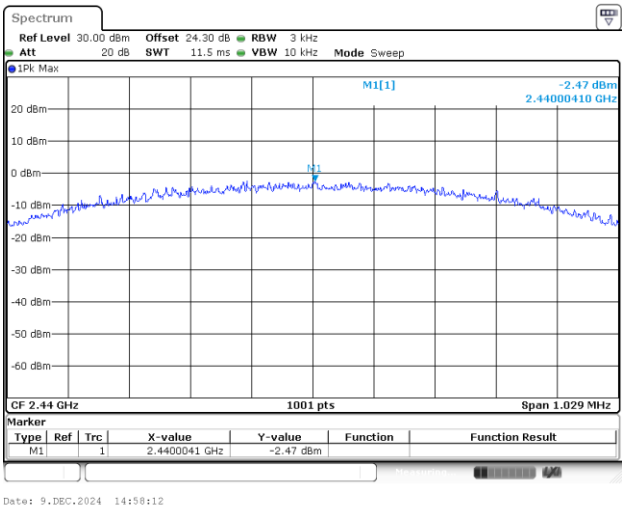
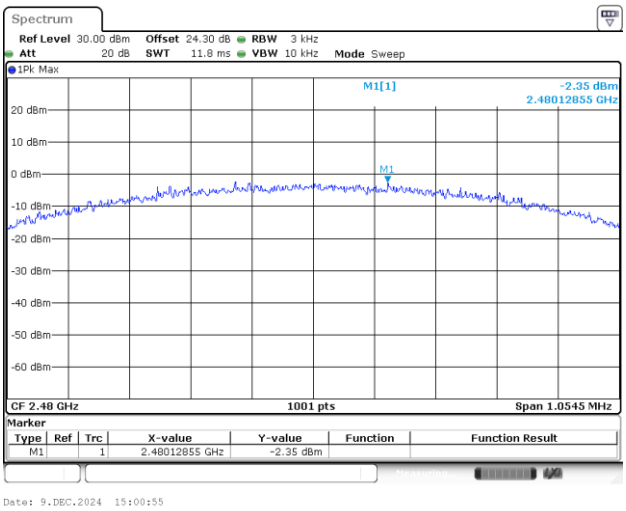
Power Density (dBm/3kHz) Plot Channel 00	Power Density (dBm/3kHz) Plot Channel 19
	
Power Density (dBm/3kHz) Plot Channel 39	
	

Band Edge and Conducted Spurious Emission

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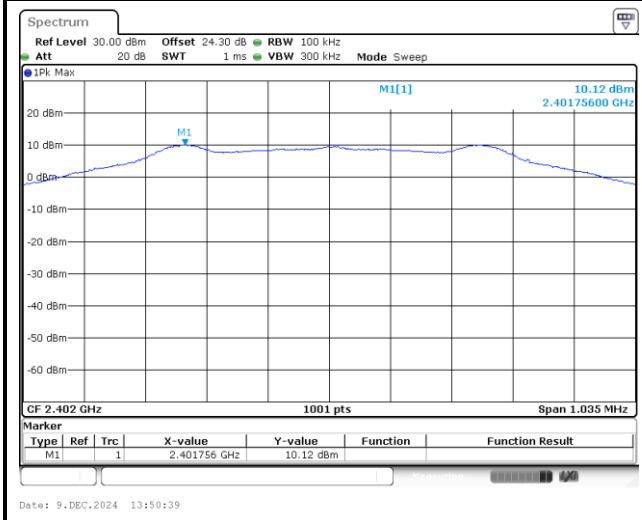
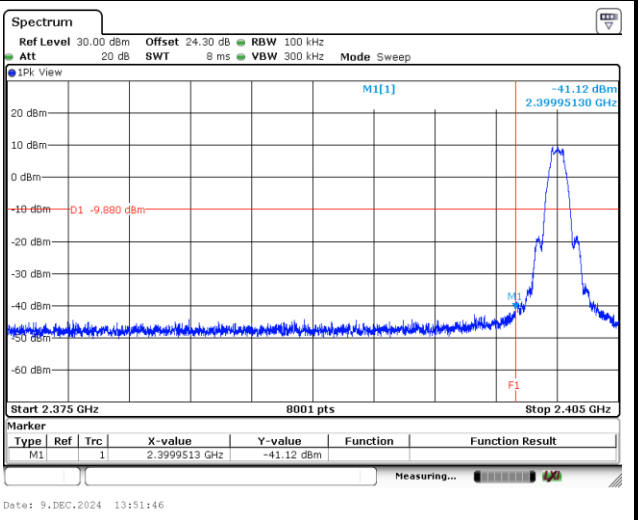
Channel 00

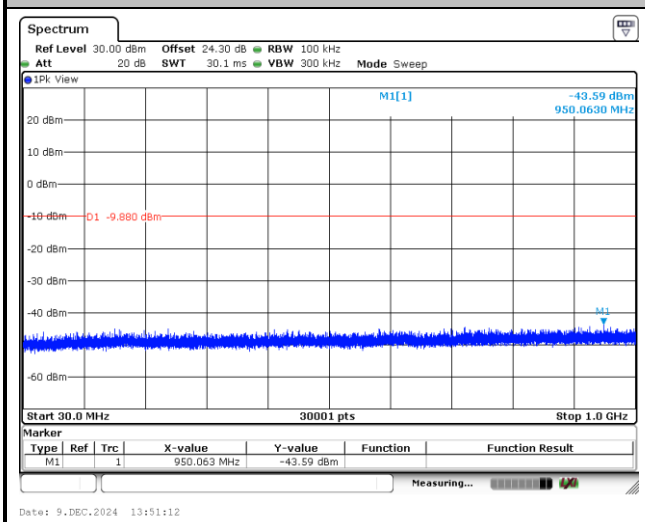
100kHz PSD reference Level Plot



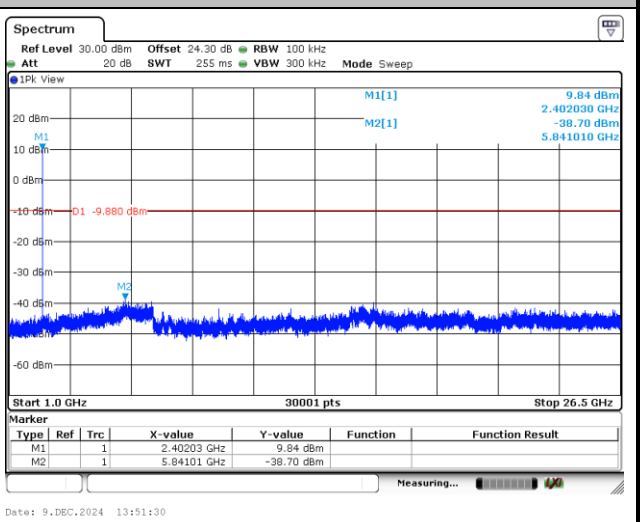
Low Channel Plot

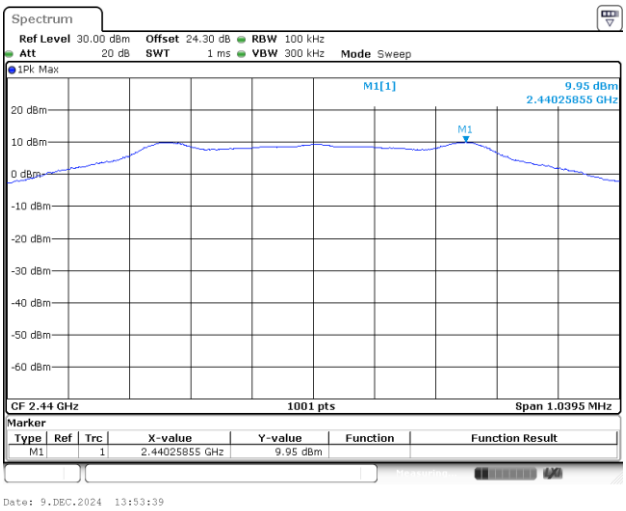
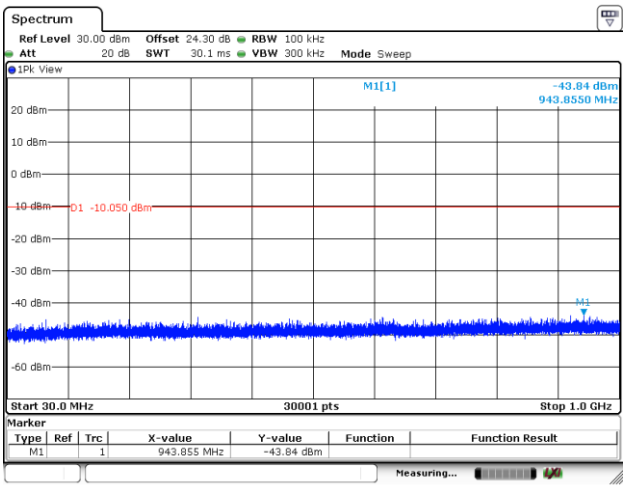
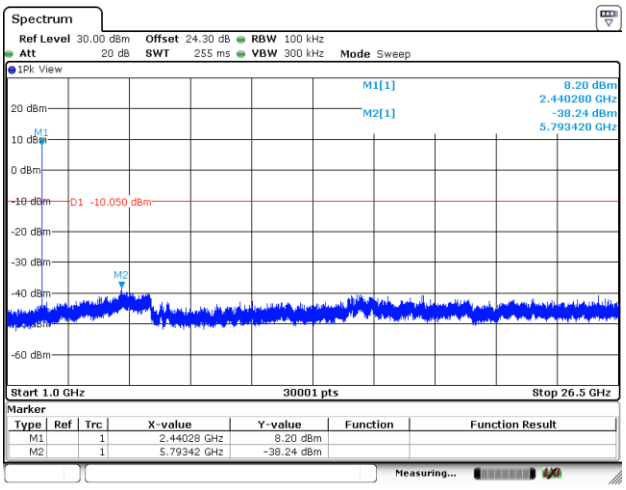


Spurious Emission 30MHz~1GHz Plot



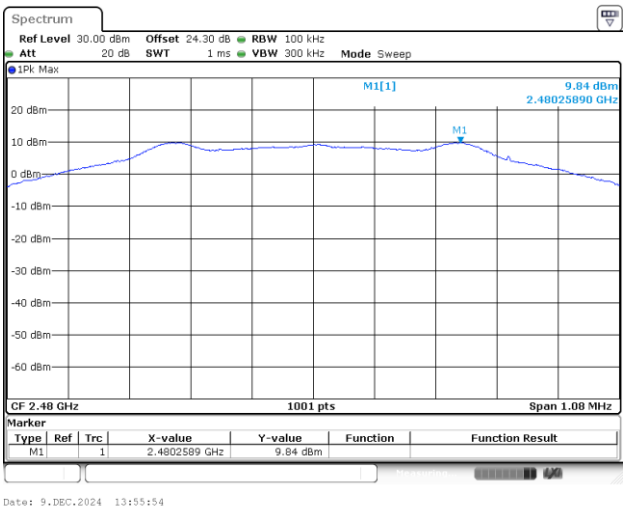
Spurious Emission 1GHz~26.5GHz Plot



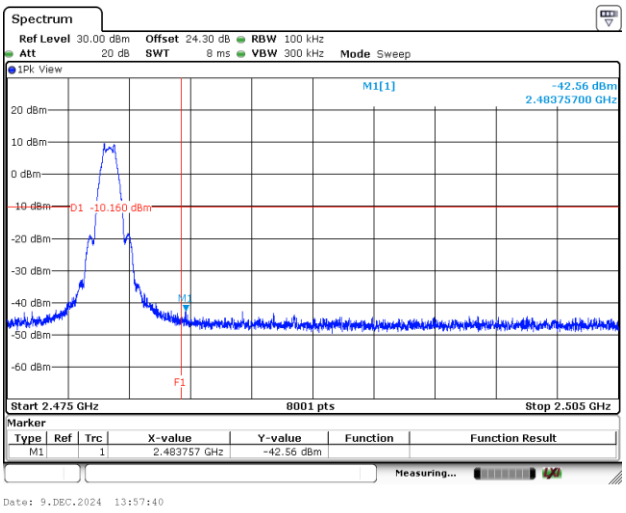
Channel 19	
100kHz PSD reference Level Plot	**Mid Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 39

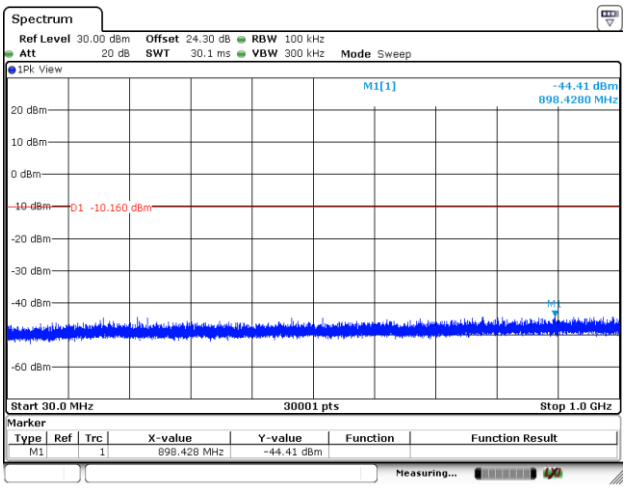
100kHz PSD reference Level Plot



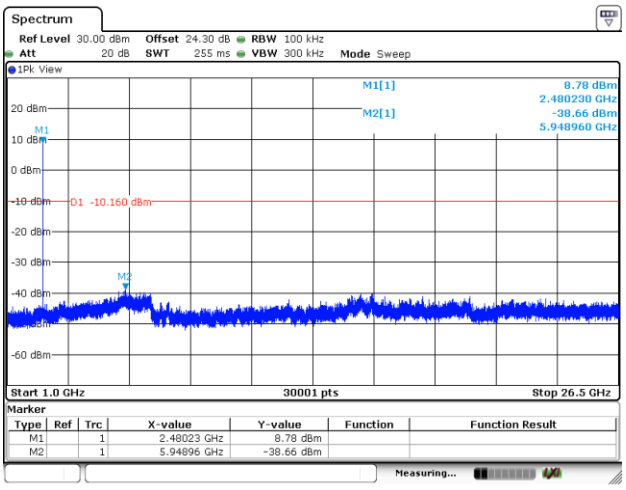
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



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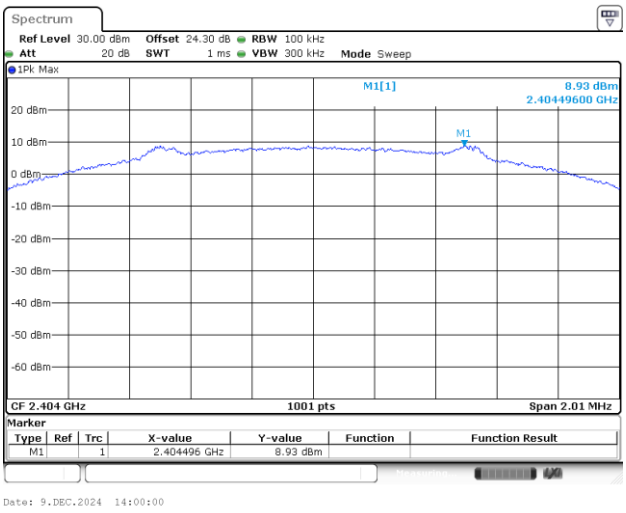
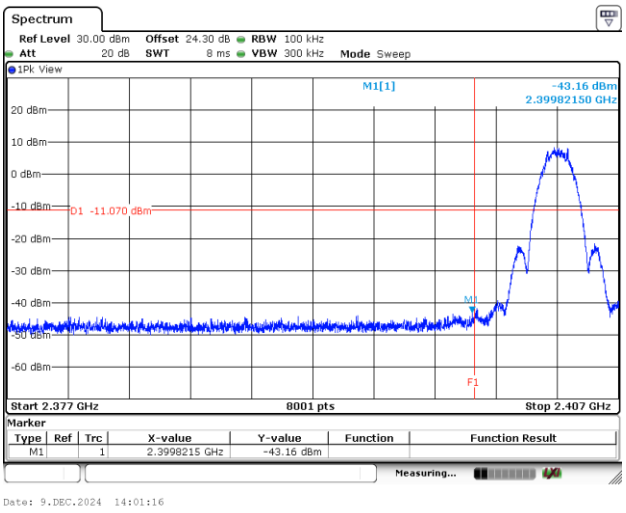
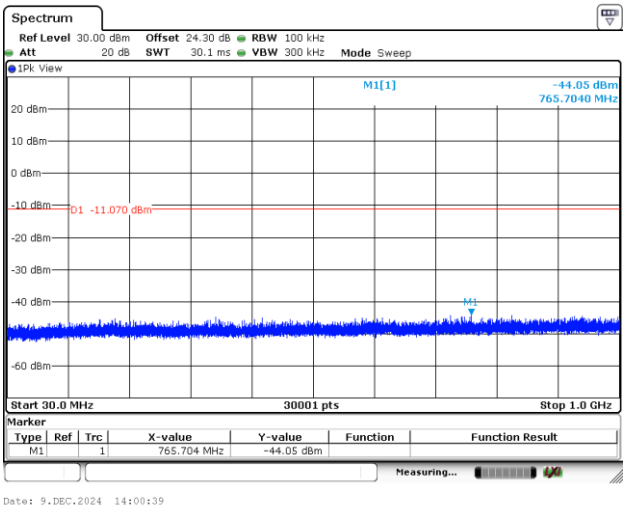
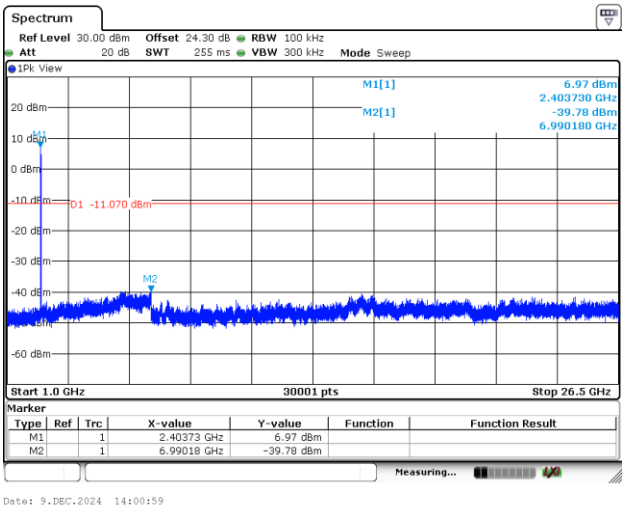
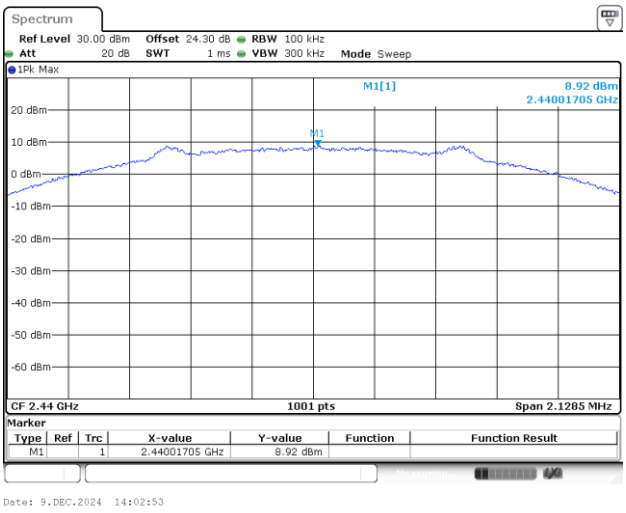
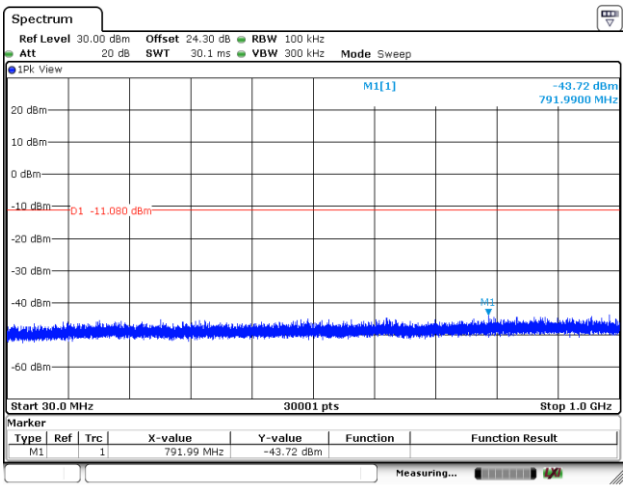
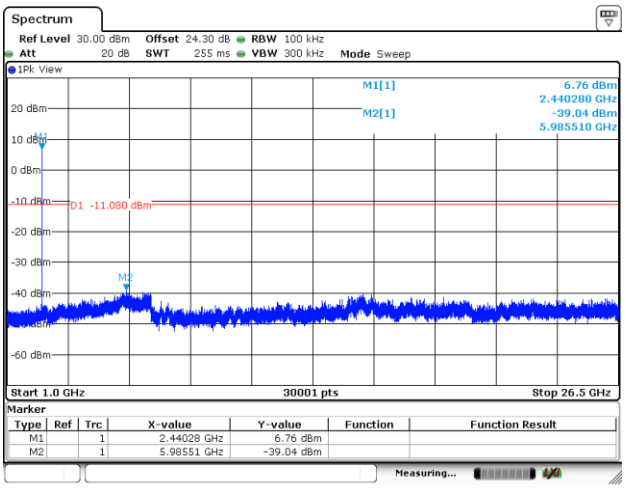
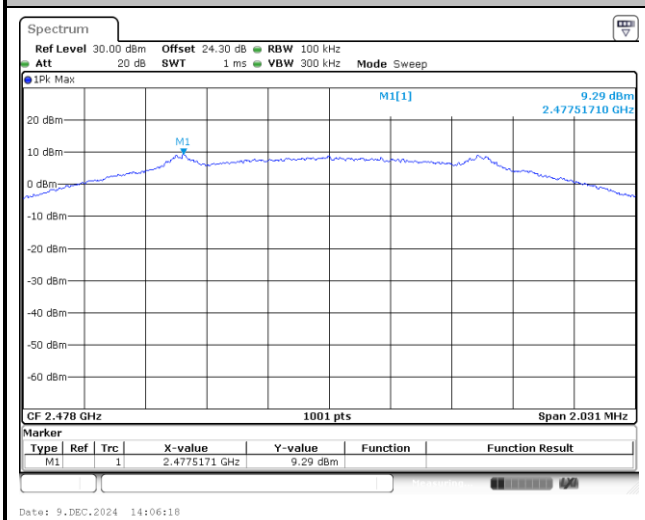
Channel 01	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

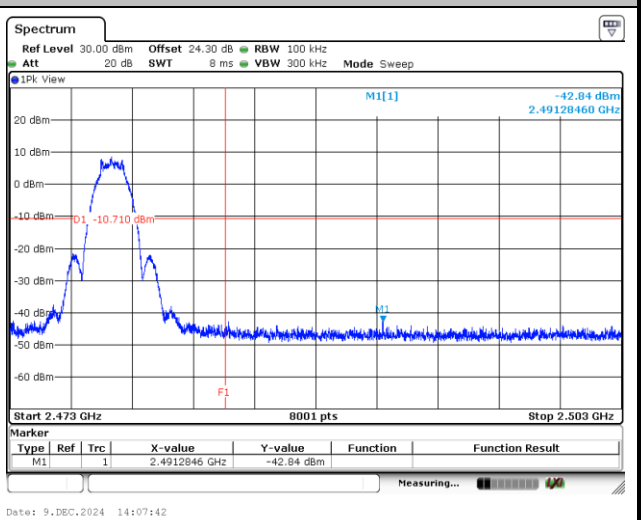
Channel 19	
100kHz PSD reference Level Plot	**Mid Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 38

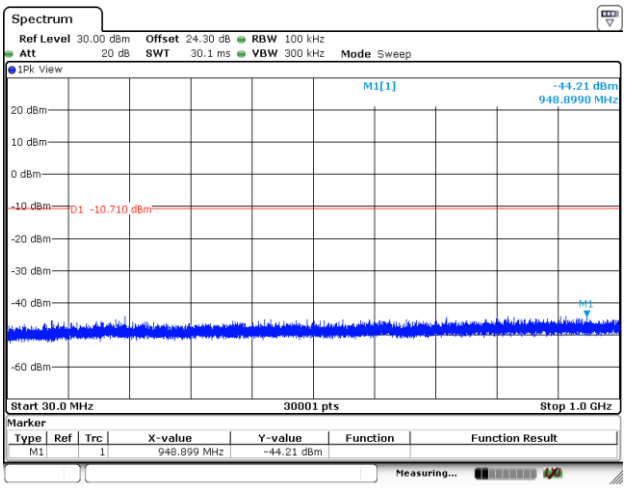
100kHz PSD reference Level Plot



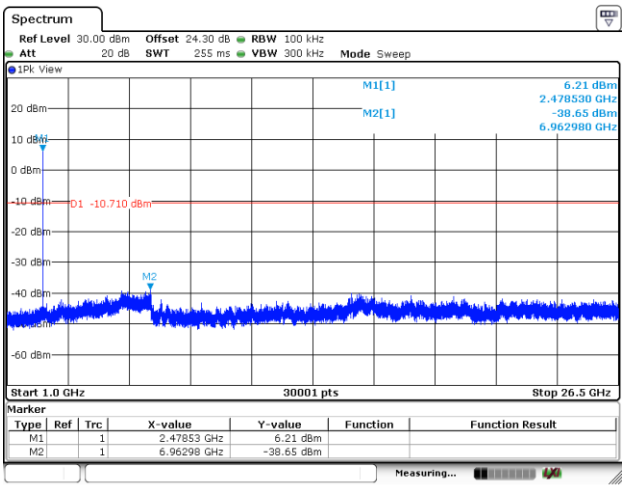
Low Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



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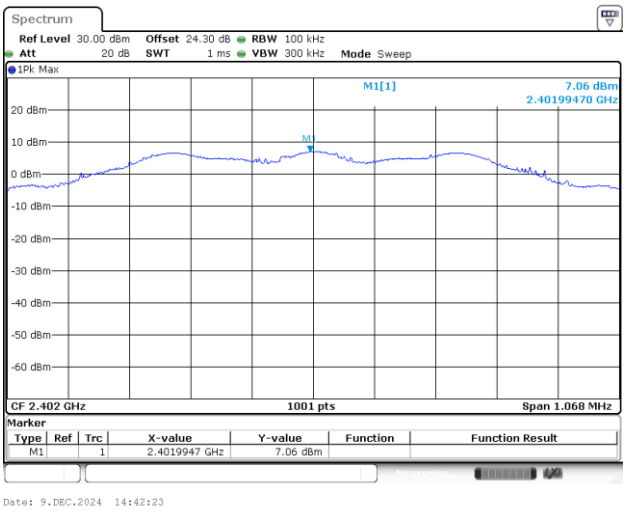
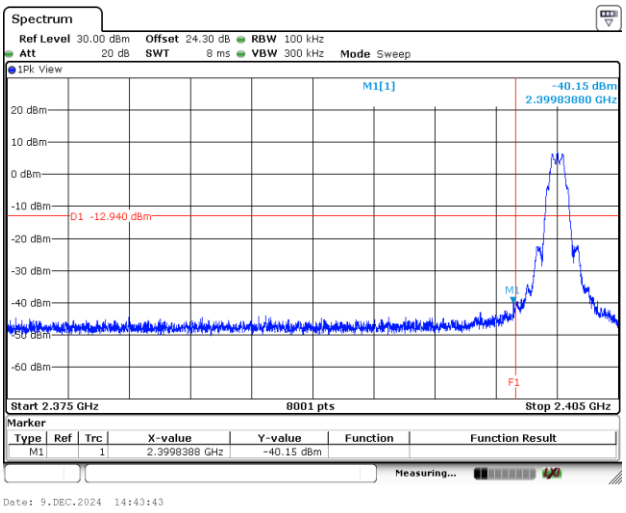
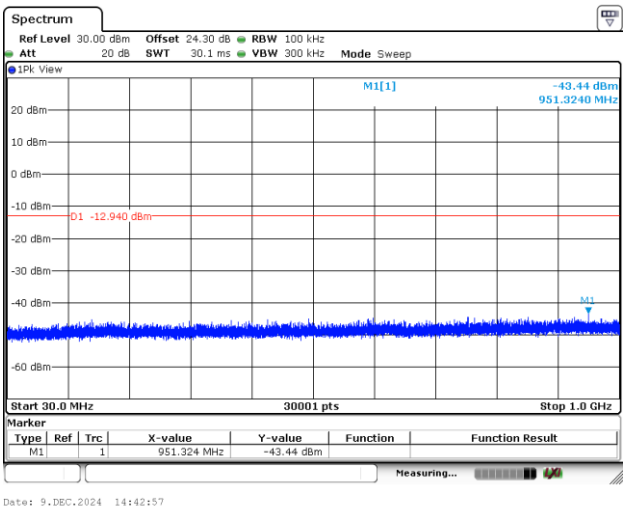
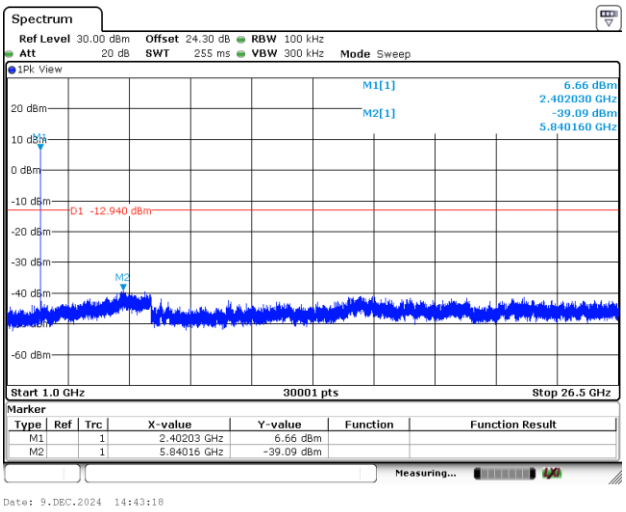
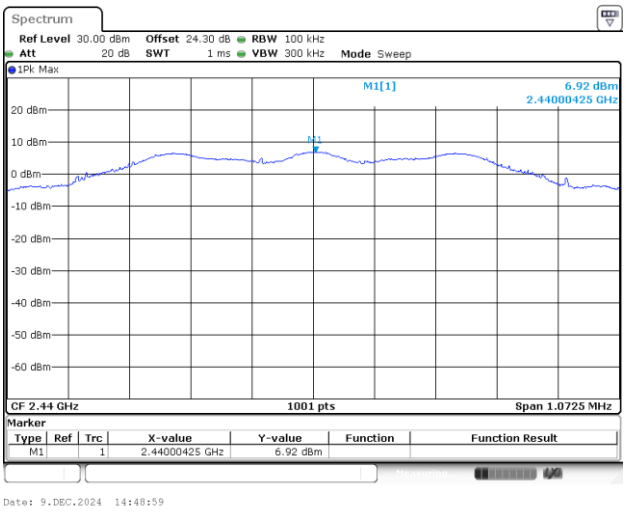
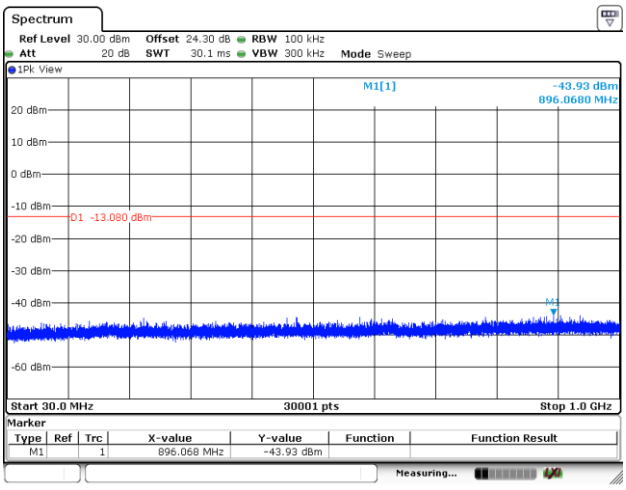
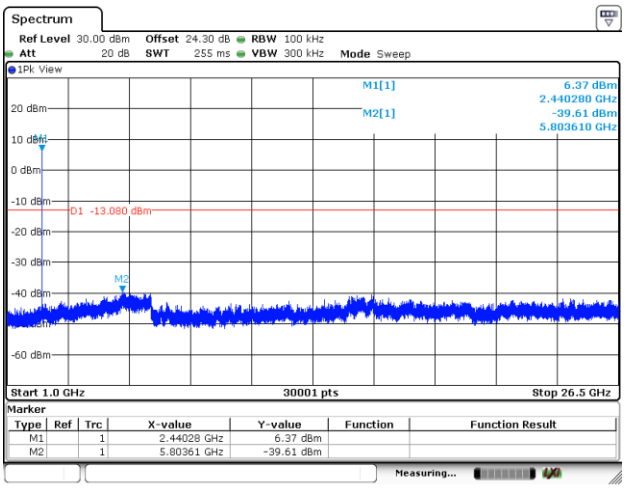
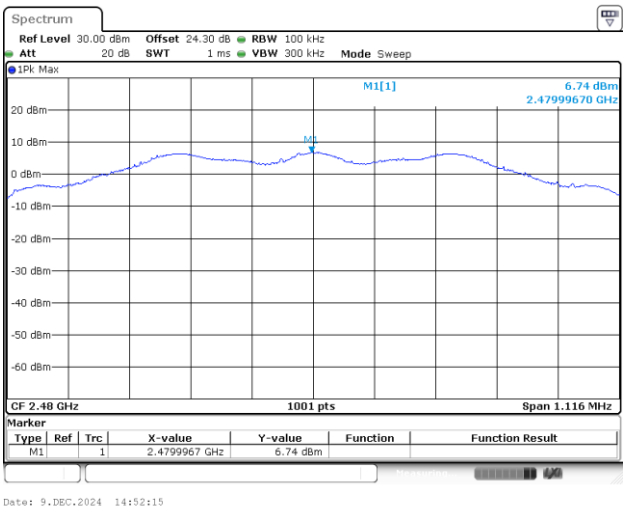
Channel 00	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

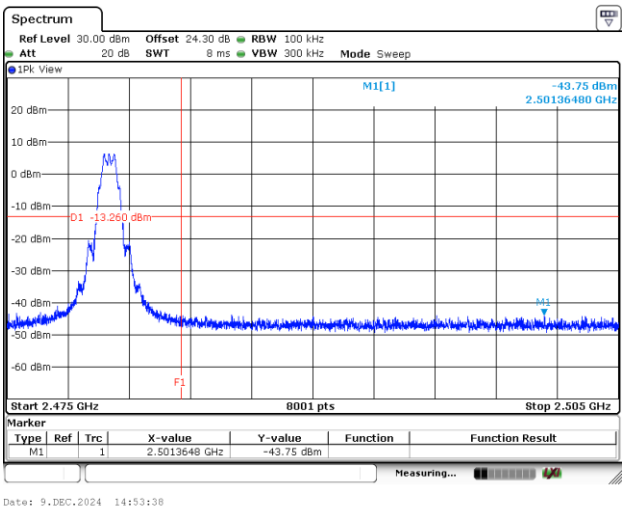
Channel 19	
100kHz PSD reference Level Plot	**Mid Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 39

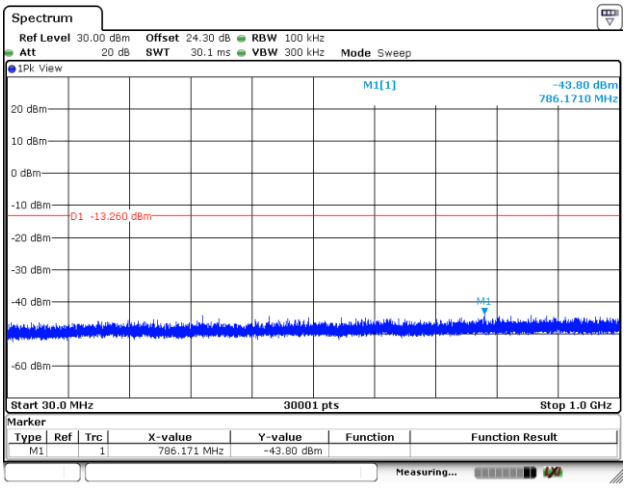
100kHz PSD reference Level Plot



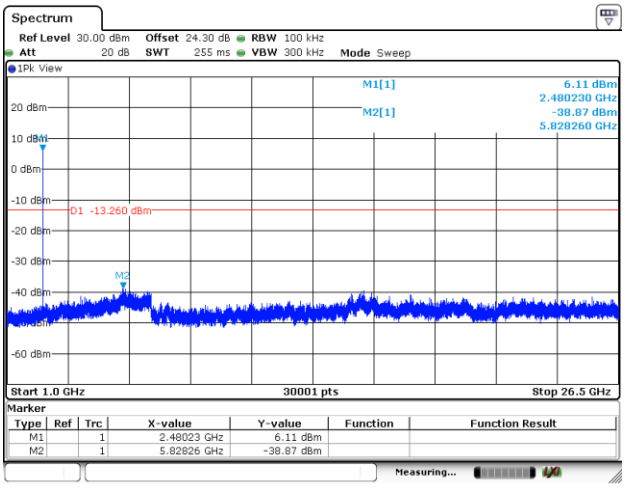
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



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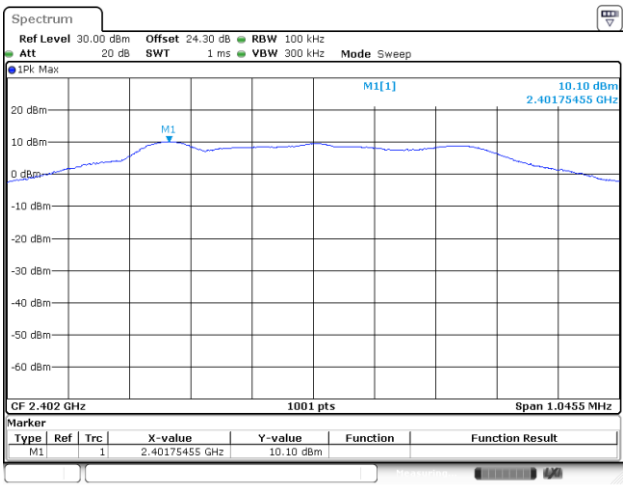
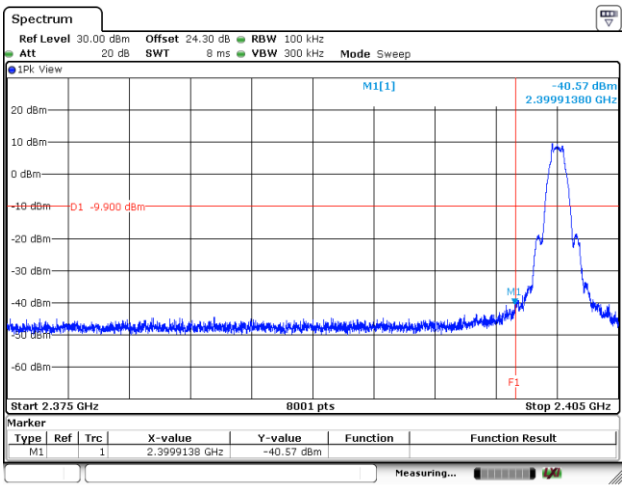
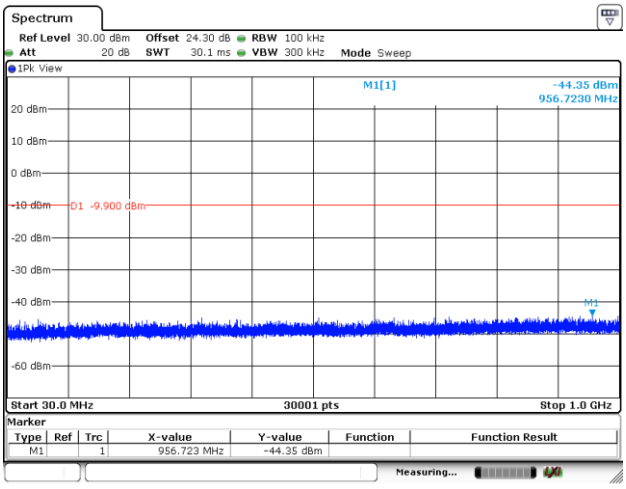
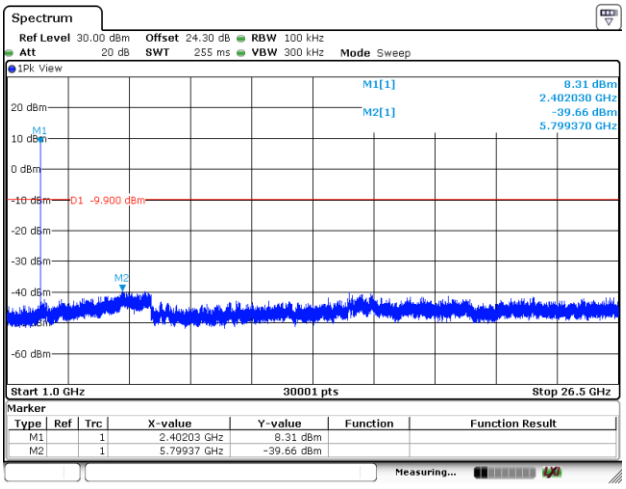
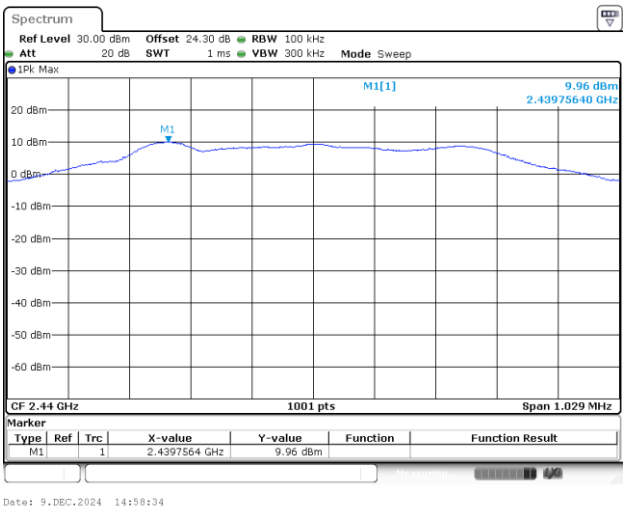
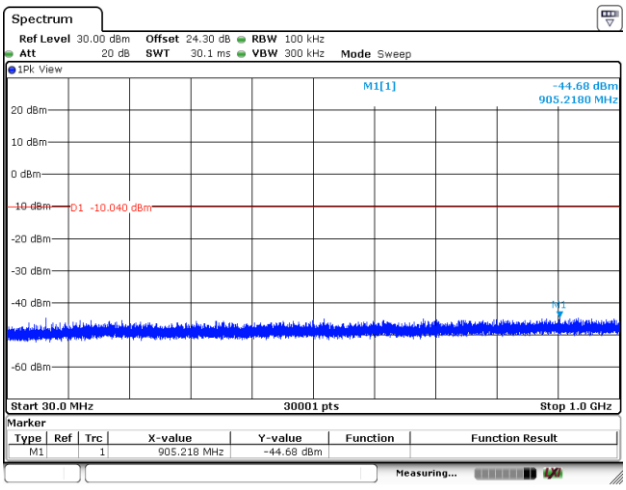
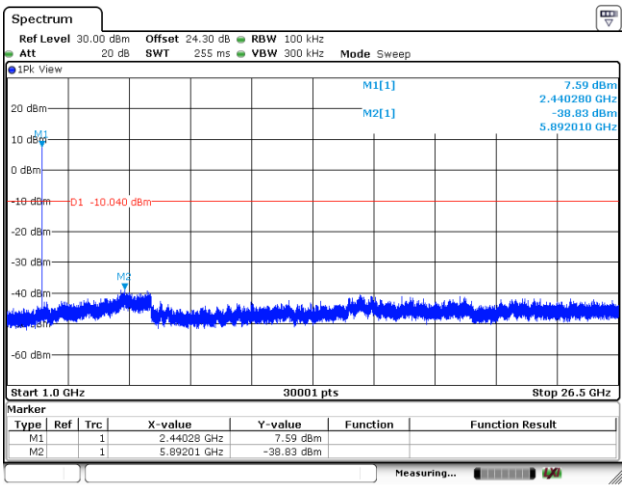
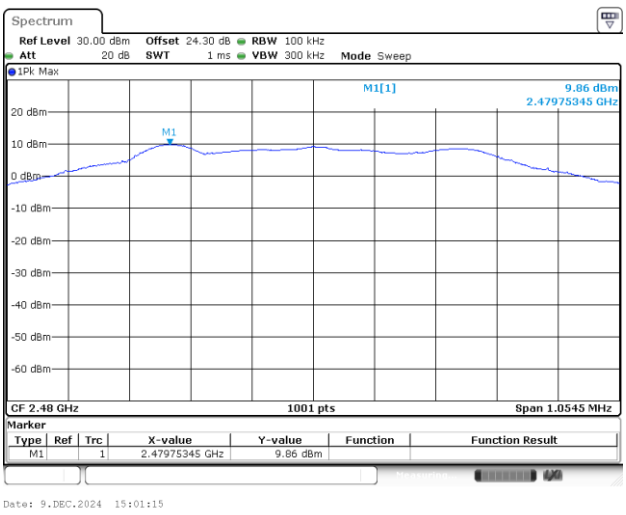
Channel 00	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

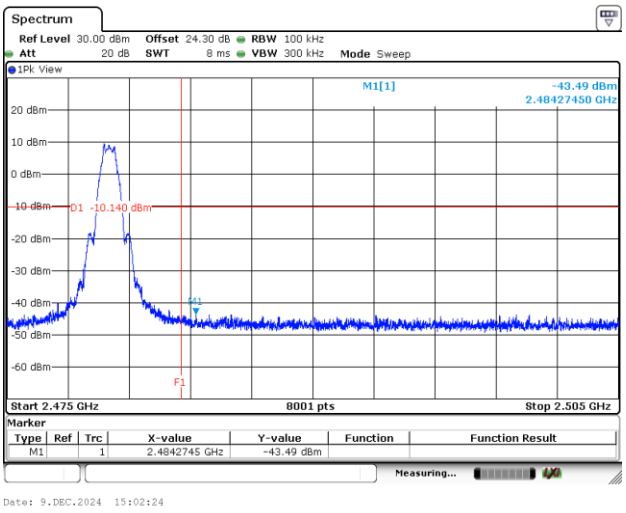
Channel 19	
100kHz PSD reference Level Plot	**Mid Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 39

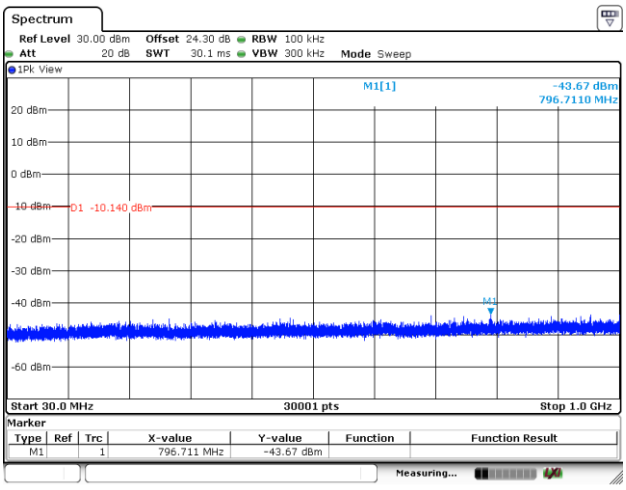
100kHz PSD reference Level Plot



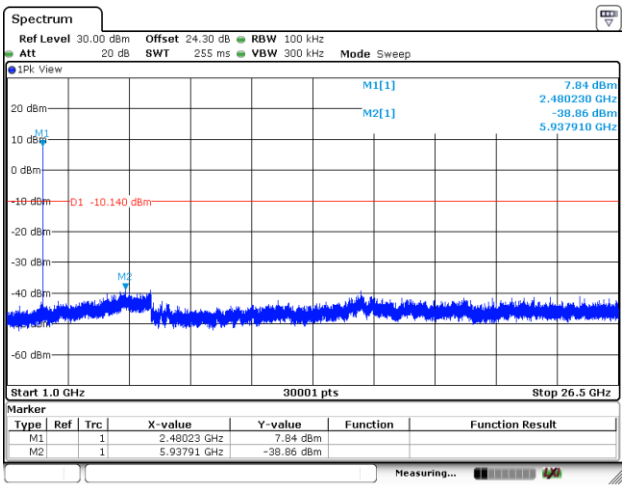
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



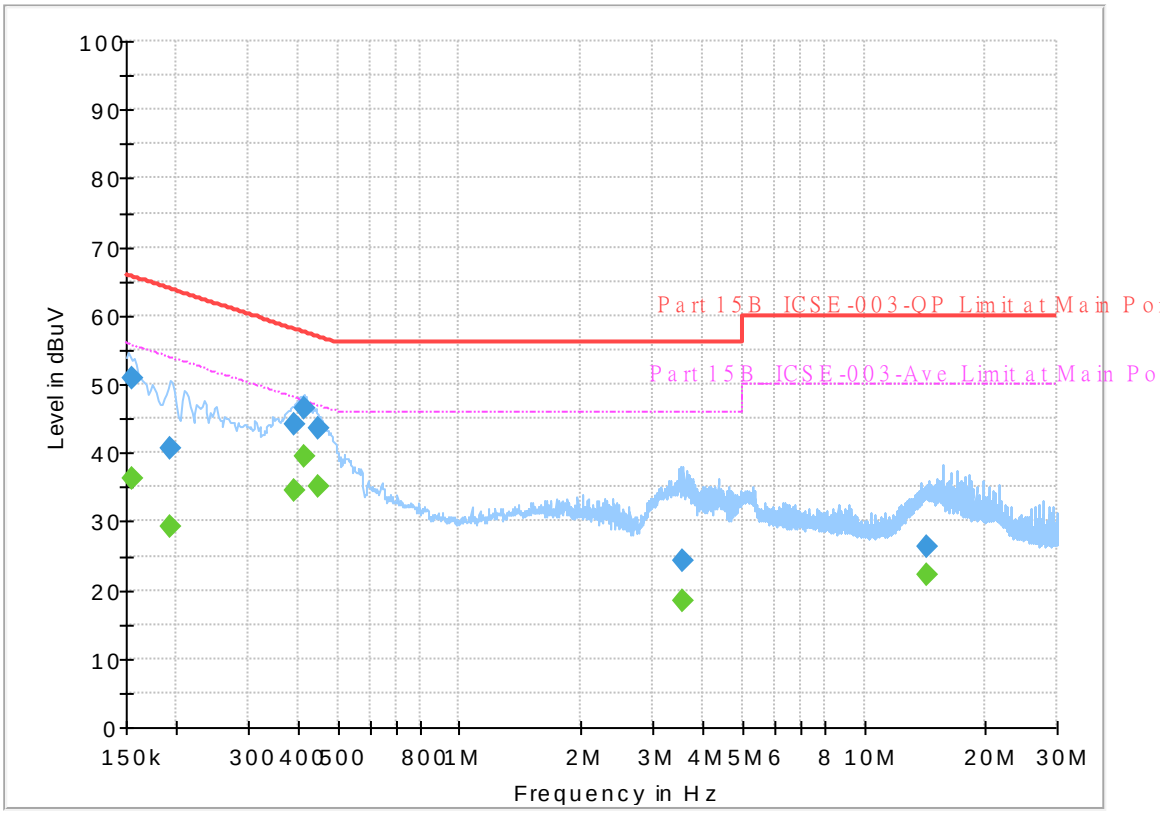
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	4O0417
Test Mode :	Mode 1
Test Voltage :	Power From System
Phase :	Line

Full Spectrum



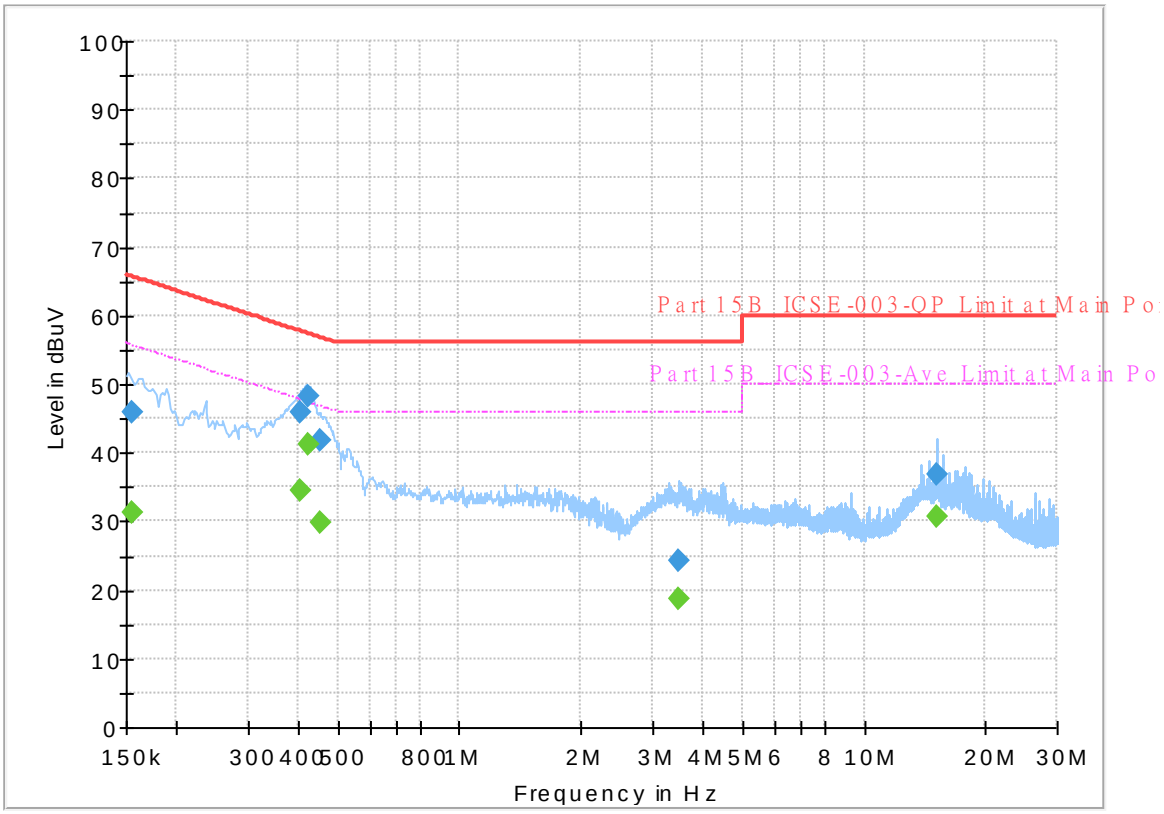
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	36.19	55.75	19.56	L1	OFF	19.8
0.154500	50.99	---	65.75	14.76	L1	OFF	19.8
0.192750	---	29.12	53.92	24.80	L1	OFF	19.8
0.192750	40.51	---	63.92	23.41	L1	OFF	19.8
0.390750	---	34.47	48.05	13.58	L1	OFF	19.8
0.390750	44.26	---	58.05	13.79	L1	OFF	19.8
0.413250	---	39.42	47.58	8.16	L1	OFF	19.8
0.413250	46.55	---	57.58	11.03	L1	OFF	19.8
0.447000	---	35.04	46.93	11.89	L1	OFF	19.8
0.447000	43.42	---	56.93	13.51	L1	OFF	19.8
3.579000	---	18.36	46.00	27.64	L1	OFF	19.8
3.579000	24.24	---	56.00	31.76	L1	OFF	19.8
14.282250	---	22.27	50.00	27.73	L1	OFF	19.9
14.282250	26.44	---	60.00	33.56	L1	OFF	19.9

EUT Information

Report NO :	4O0417
Test Mode :	Mode 1
Test Voltage :	Power From System
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	31.21	55.75	24.54	N	OFF	19.8
0.154500	45.99	---	65.75	19.76	N	OFF	19.8
0.406500	---	34.63	47.72	13.09	N	OFF	19.8
0.406500	45.85	---	57.72	11.87	N	OFF	19.8
0.424500	---	41.20	47.36	6.16	N	OFF	19.8
0.424500	48.17	---	57.36	9.19	N	OFF	19.8
0.453750	---	29.95	46.81	16.86	N	OFF	19.8
0.453750	41.73	---	56.81	15.08	N	OFF	19.8
3.495750	---	18.82	46.00	27.18	N	OFF	19.8
3.495750	24.22	---	56.00	31.78	N	OFF	19.8
15.085500	---	30.60	50.00	19.40	N	OFF	20.0
15.085500	36.92	---	60.00	23.08	N	OFF	20.0

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jack Cheng, Tim Lee and Wilson Wu	**Temperature :**	20~25℃
		Relative Humidity :	50~60%

Note symbol

-L	**Low channel location**
-R	**High channel location**

C1. Radiated Spurious Emission Test Modes

<5dBm>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Bluetooth-LE GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	1Mbps	-	-
Mode 3	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	1Mbps	-	-
Mode 4	2400-2483.5	1	Bluetooth-LE GFSK	01	2404	2Mbps	-	-
Mode 5	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	2Mbps	-	-
Mode 6	2400-2483.5	1	Bluetooth-LE GFSK	38	2478	2Mbps	-	-
Mode 7	2400-2483.5	1	Bluetooth-LE GFSK	00	2402	125kbps	-	-
Mode 8	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	125kbps	-	-
Mode 9	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	125kbps	-	-
Mode 10	2400-2483.5	1	Bluetooth-LE GFSK	00	2402	500kbps	-	-
Mode 11	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	500kbps	-	-
Mode 12	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500kbps	-	-
Mode 13	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500kbps	-	SHF
Mode 14	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500kbps	-	LF

<10dBm>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 15	2400-2483.5	1	Bluetooth-LE GFSK	00	2402	1Mbps	-	-
Mode 16	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	1Mbps	-	-
Mode 17	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	1Mbps	-	-
Mode 18	2400-2483.5	1	Bluetooth-LE GFSK	01	2404	2Mbps	-	-
Mode 19	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	2Mbps	-	-
Mode 20	2400-2483.5	1	Bluetooth-LE GFSK	38	2478	2Mbps	-	-
Mode 21	2400-2483.5	1	Bluetooth-LE GFSK	00	2402	125kbps	-	-
Mode 22	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	125kbps	-	-
Mode 23	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	125kbps	-	-
Mode 24	2400-2483.5	1	Bluetooth-LE GFSK	00	2402	500kbps	-	-
Mode 25	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	500kbps	-	-
Mode 26	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500kbps	-	-
Mode 27	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500kbps	-	SHF
Mode 28	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500kbps	-	LF

C2. Summary of each worse mode

<5dBm>

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Bluetooth-LE GFSK	00	2389.95	40.50	54.00	-13.50	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	00	4804.00	40.63	74.00	-33.37	H	Peak	Pass	-	Harmonic
2	Bluetooth-LE GFSK	19	2498.62	40.77	54.00	-13.23	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	7320.00	43.91	54.00	-10.09	V	Avg.	Pass	-	Harmonic
3	Bluetooth-LE GFSK	39	2483.52	45.42	54.00	-8.58	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	7440.00	44.73	54.00	-9.27	V	Avg.	Pass	-	Harmonic
4	Bluetooth-LE GFSK	01	2389.81	40.45	54.00	-13.55	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	01	4808.00	42.31	74.00	-31.69	H	Peak	Pass	-	Harmonic
5	Bluetooth-LE GFSK	19	2497.42	40.80	54.00	-13.20	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	7320.00	42.83	54.00	-11.17	V	Avg.	Pass	-	Harmonic
6	Bluetooth-LE GFSK	38	2483.52	43.69	54.00	-10.31	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	38	7434.00	43.80	54.00	-10.20	V	Avg.	Pass	-	Harmonic
7	Bluetooth-LE GFSK	00	2389.86	40.52	54.00	-13.48	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	00	4804.00	42.18	74.00	-31.82	H	Peak	Pass	-	Harmonic
8	Bluetooth-LE GFSK	19	2499.16	40.99	54.00	-13.01	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	7320.00	42.40	54.00	-11.60	H	Avg.	Pass	-	Harmonic
9	Bluetooth-LE GFSK	39	2483.52	45.14	54.00	-8.86	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	7440.00	43.46	54.00	-10.54	H	Avg.	Pass	-	Harmonic
10	Bluetooth-LE GFSK	00	2389.95	40.61	54.00	-13.39	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	00	4804.00	42.56	74.00	-31.44	H	Peak	Pass	-	Harmonic

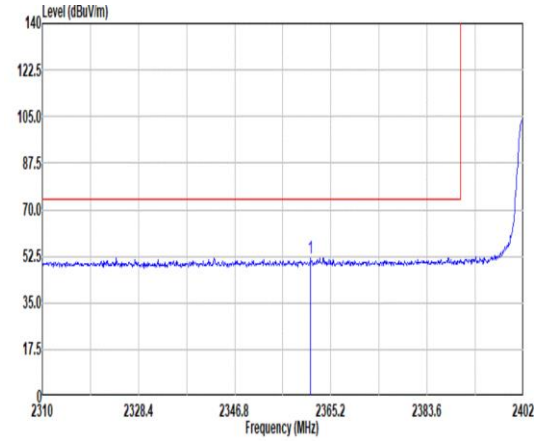
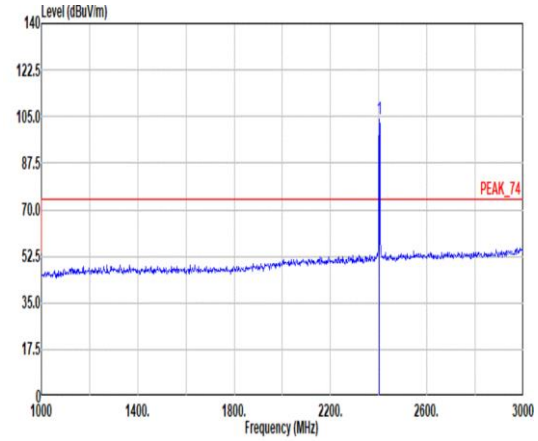
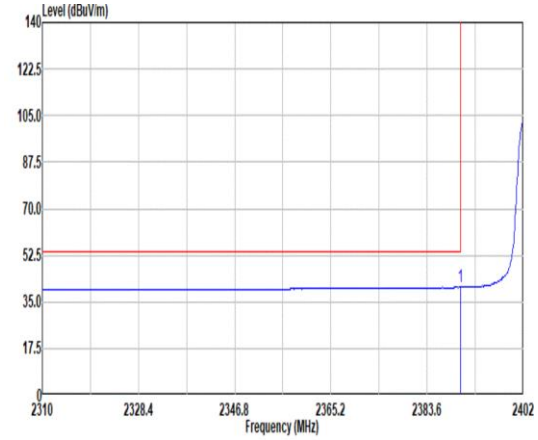
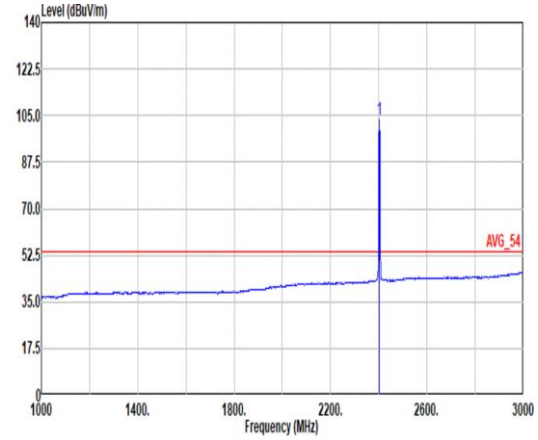
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
11	Bluetooth-LE GFSK	19	2495.02	40.90	54.00	-13.10	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	7320.00	46.31	74.00	-27.69	V	Peak	Pass	-	Harmonic
12	Bluetooth-LE GFSK	39	2483.52	45.43	54.00	-8.57	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	7440.00	47.90	74.00	-26.10	V	Peak	Pass	-	Harmonic
13	SHF	39	25161.00	42.22	74.00	-31.78	H	Peak	Pass	-	SHF
14	LF	39	898.15	39.65	46.00	-6.35	H	Peak	Pass	-	LF

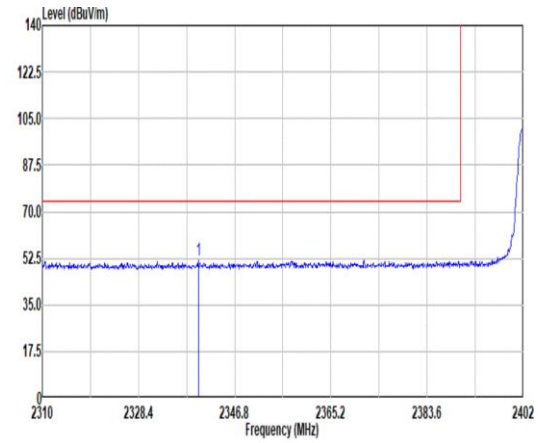
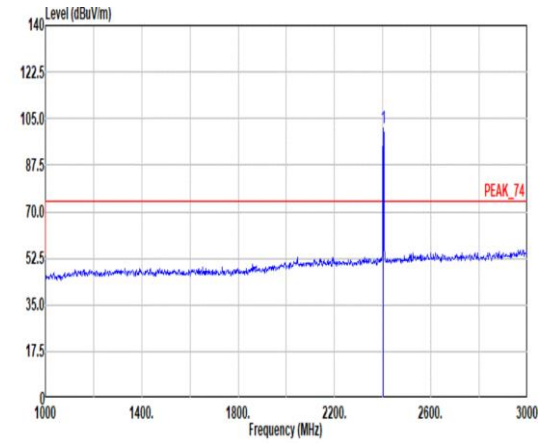
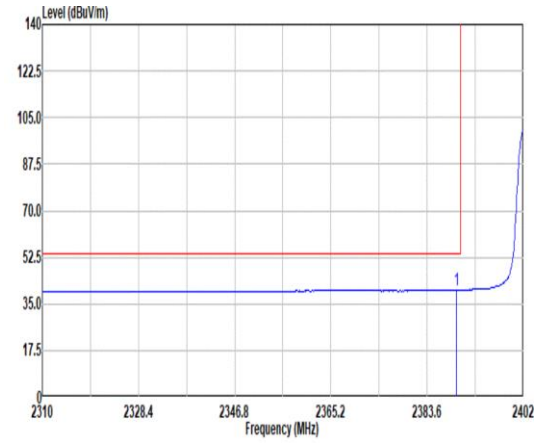
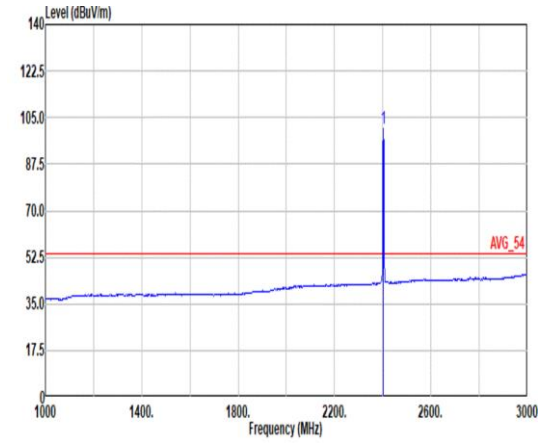
<10dBm>

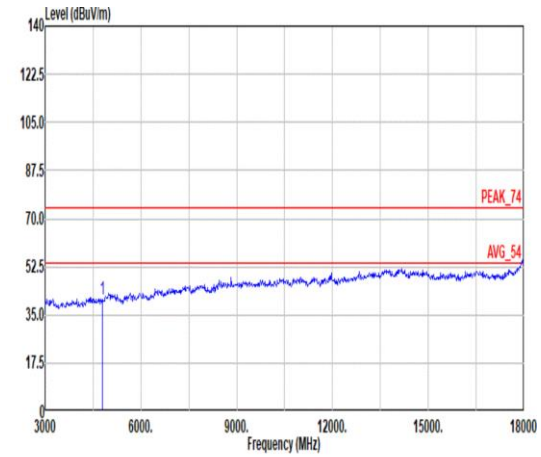
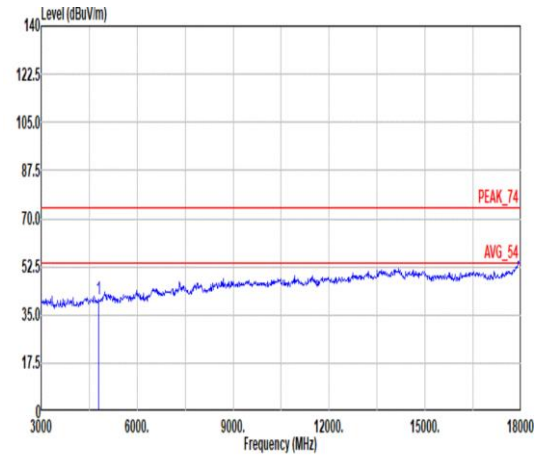
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
15	Bluetooth-LE GFSK	00	2389.49	42.11	54.00	-11.89	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	00	4804.00	47.38	74.00	-26.62	H	Peak	Pass	-	Harmonic
16	Bluetooth-LE GFSK	19	2488.06	41.56	54.00	-12.44	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	4880.00	46.10	54.00	-7.90	H	Avg.	Pass	-	Harmonic
17	Bluetooth-LE GFSK	39	2483.52	49.91	54.00	-4.09	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	4960.00	51.53	54.00	-2.47	V	Avg.	Pass	-	Harmonic
18	Bluetooth-LE GFSK	01	2389.99	42.13	54.00	-11.87	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	01	4808.00	46.65	74.00	-27.35	H	Peak	Pass	-	Harmonic
19	Bluetooth-LE GFSK	19	2488.24	41.56	54.00	-12.44	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	4880.00	44.11	54.00	-9.89	V	Avg.	Pass	-	Harmonic
20	Bluetooth-LE GFSK	38	2483.52	47.75	54.00	-6.25	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	38	4956.00	48.85	54.00	-5.15	V	Avg.	Pass	-	Harmonic

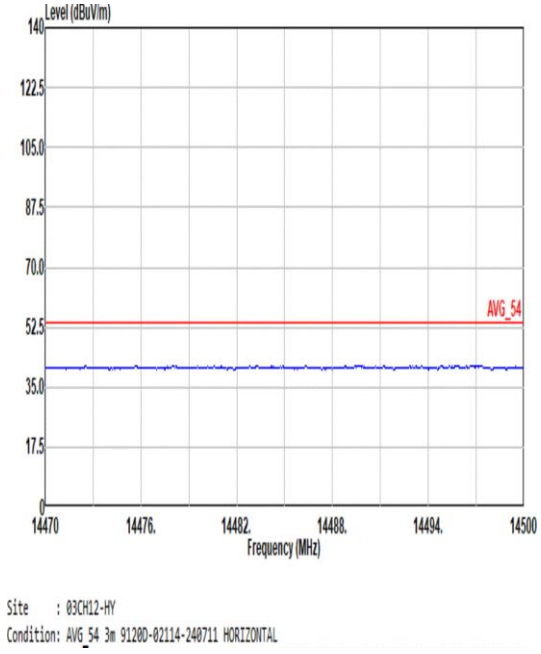
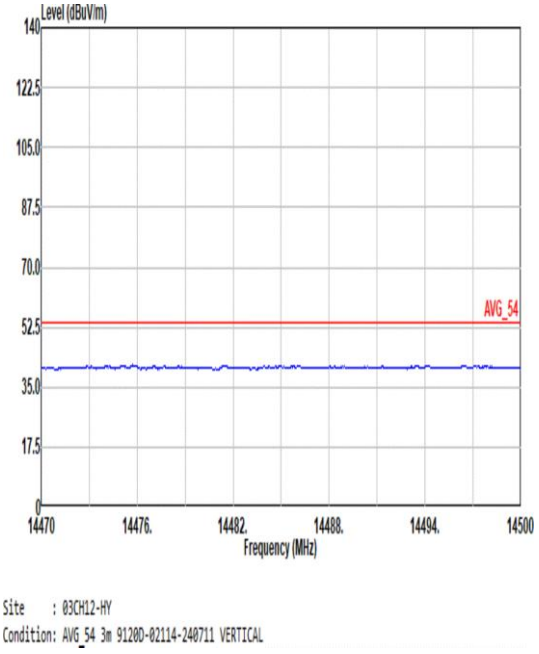
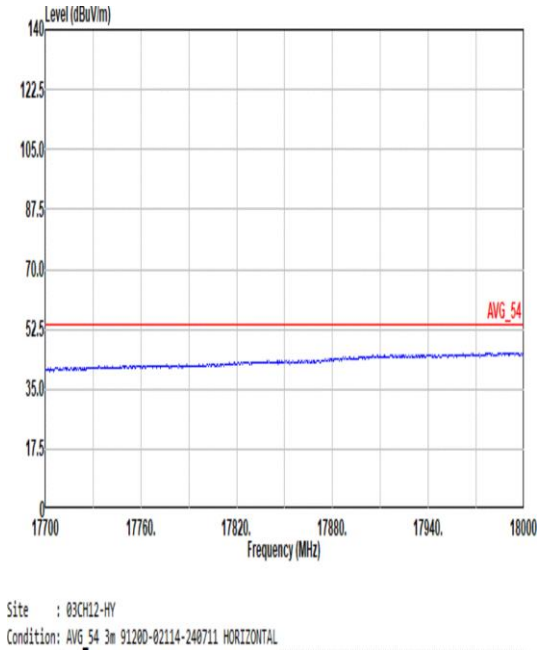
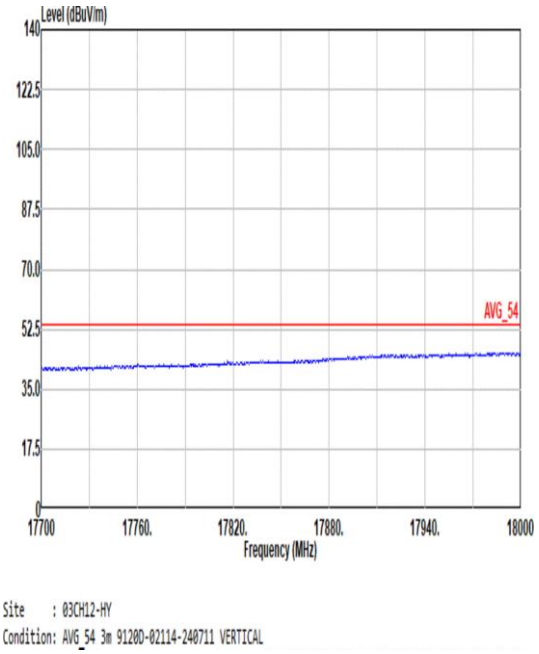
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
21	Bluetooth-LE GFSK	00	2389.95	41.99	54.00	-12.01	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	00	4804.00	47.20	74.00	-26.80	H	Peak	Pass	-	Harmonic
22	Bluetooth-LE GFSK	19	2491.24	41.24	54.00	-12.76	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	4880.00	46.41	54.00	-7.59	V	Avg.	Pass	-	Harmonic
23	Bluetooth-LE GFSK	39	2483.52	48.74	54.00	-5.26	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	4960.00	50.25	54.00	-3.75	V	Avg.	Pass	-	Harmonic
24	Bluetooth-LE GFSK	00	2389.76	41.94	54.00	-12.06	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	00	4804.00	47.62	74.00	-26.38	V	Peak	Pass	-	Harmonic
25	Bluetooth-LE GFSK	19	2494.84	41.20	54.00	-12.80	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	4880.00	48.25	54.00	-5.75	V	Avg.	Pass	-	Harmonic
26	Bluetooth-LE GFSK	39	2483.52	48.27	54.00	-5.73	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	4960.00	52.10	54.00	-1.90	H	Avg.	Pass	-	Harmonic
27	SHF	39	25678.00	42.79	74.00	-31.21	V	Peak	Pass	-	SHF
28	LF	39	718.70	38.65	46.00	-7.35	V	Peak	Pass	-	LF

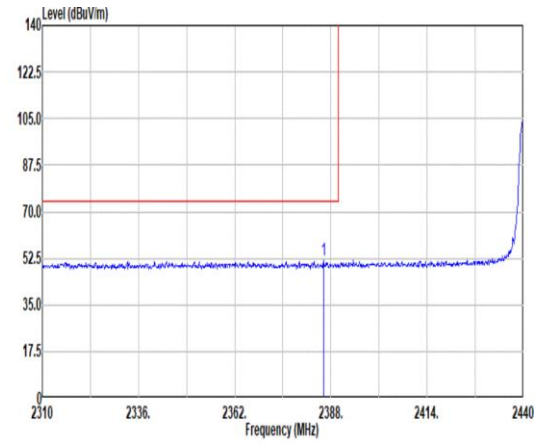
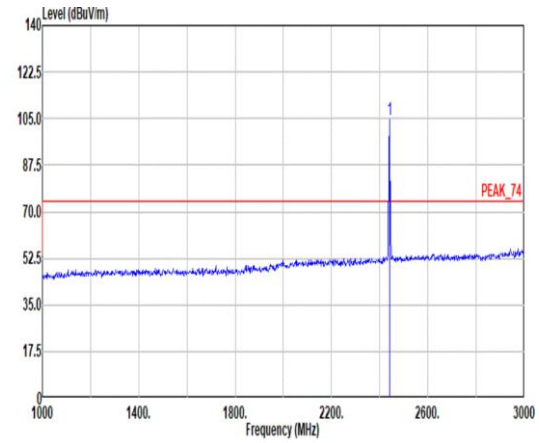
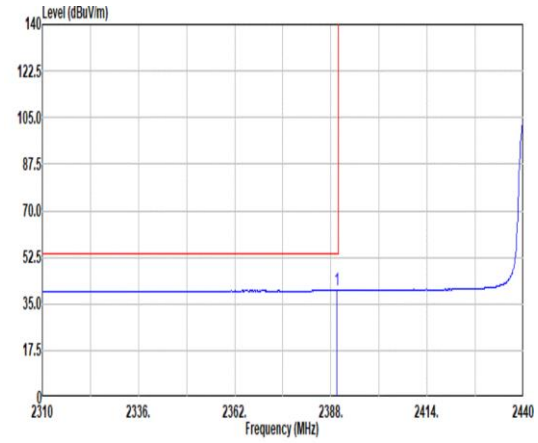
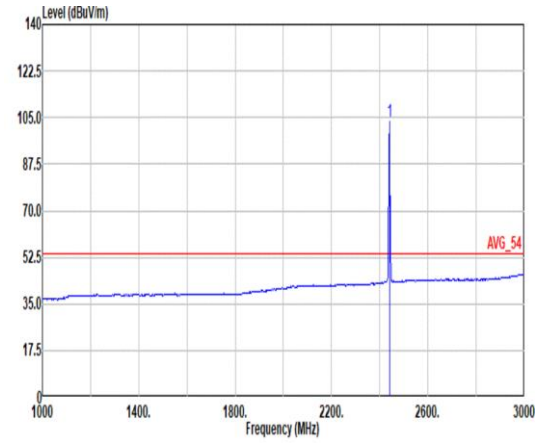
<5dBm>

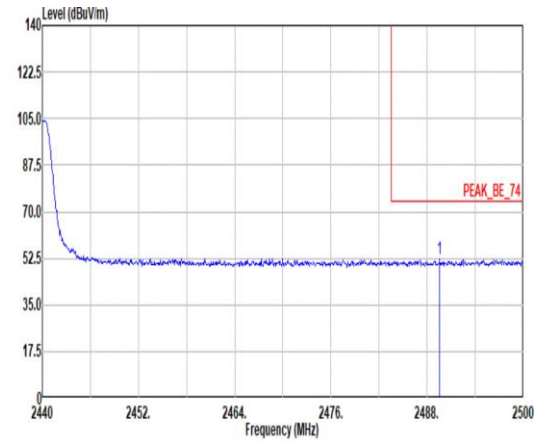
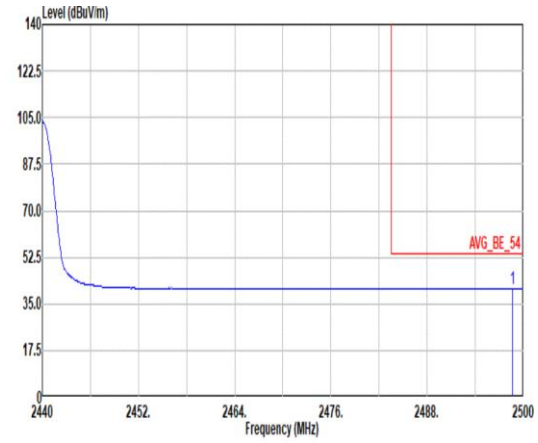
Mode	1	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2361.34 51.97 74.00 -22.03 42.76 27.40 6.57 34.79 10.03 127 344 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 103.90 ------ ------ 94.45 27.60 6.62 34.80 10.03 127 344 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 40.50 54.00 -13.50 31.16 27.50 6.61 34.80 10.03 127 344 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 103.35 ------ ------ 93.90 27.60 6.62 34.80 10.03 127 344 AVERAGE

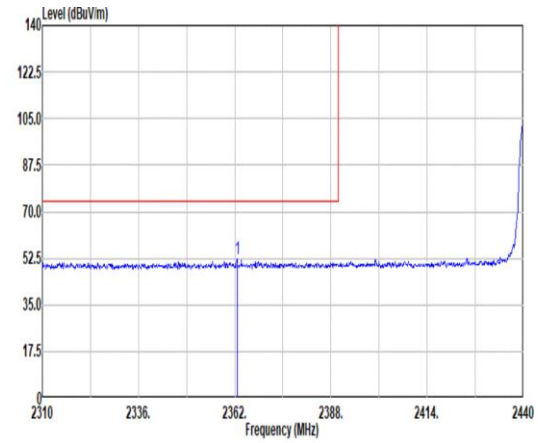
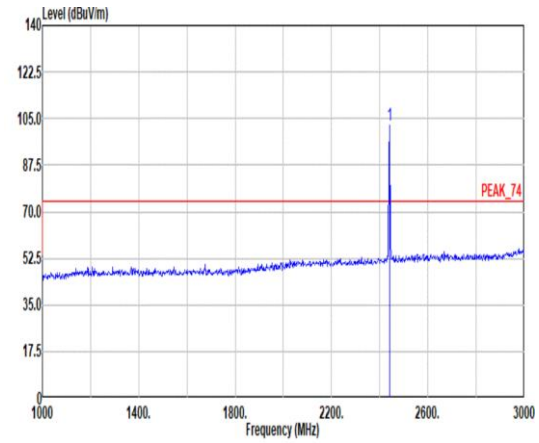
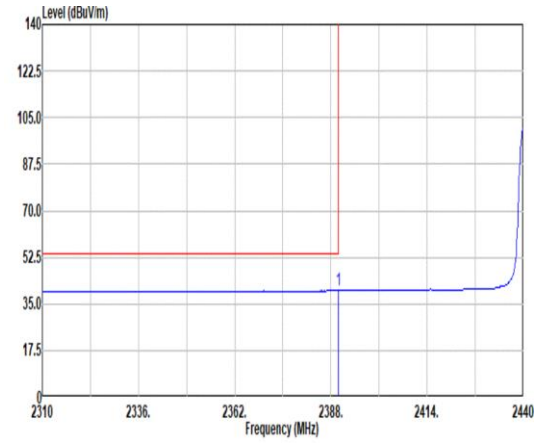
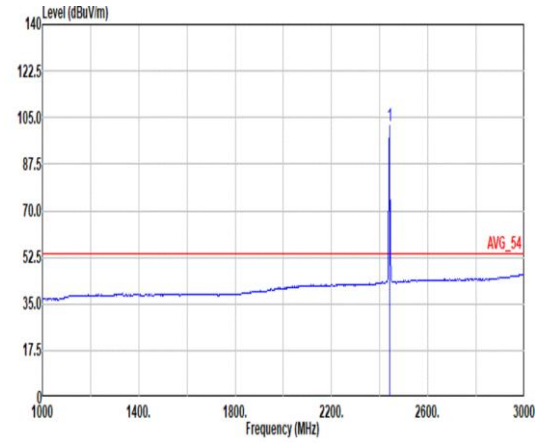
Mode	1	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2339.81 51.75 74.00 -22.25 42.67 27.30 6.54 34.79 10.03 300 244 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 101.20 ------ ------ 91.75 27.60 6.62 34.80 10.03 300 244 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.21 40.27 54.00 -13.73 30.95 27.48 6.61 34.80 10.03 300 244 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 100.65 ------ ------ 91.20 27.60 6.62 34.80 10.03 300 244 AVERAGE

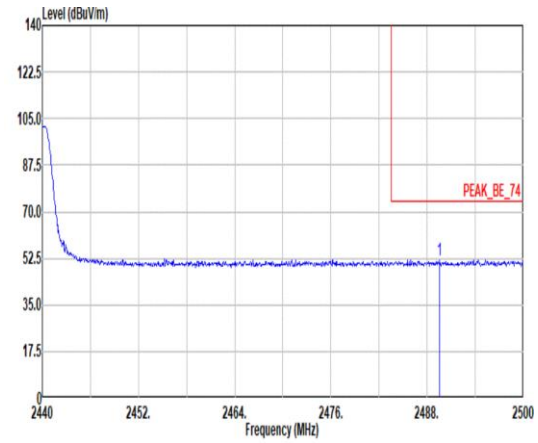
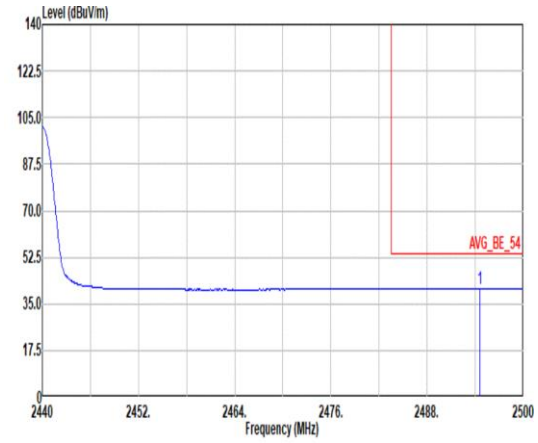
Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 40.63 74.00 -33.37 64.21 32.52 10.56 67.08 0.42 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 40.49 74.00 -33.51 64.07 32.52 10.56 67.08 0.42 -- -- PEAK

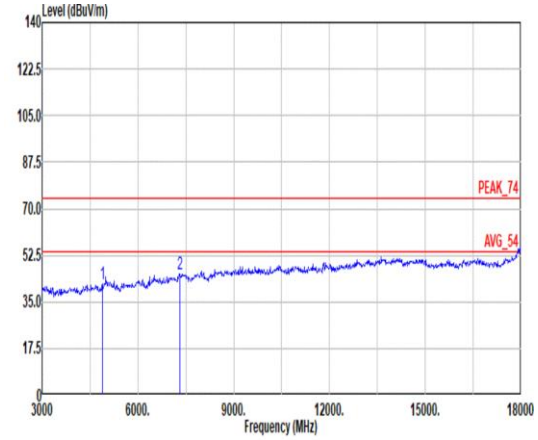
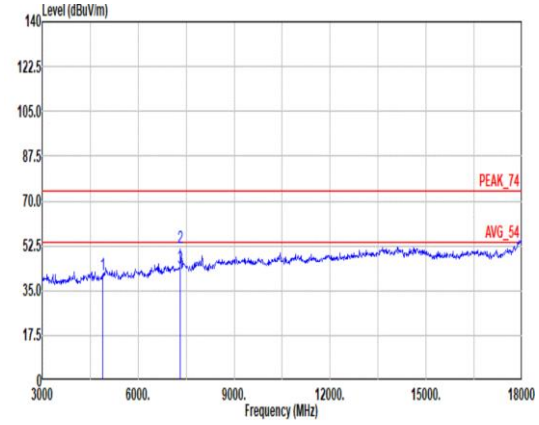
Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

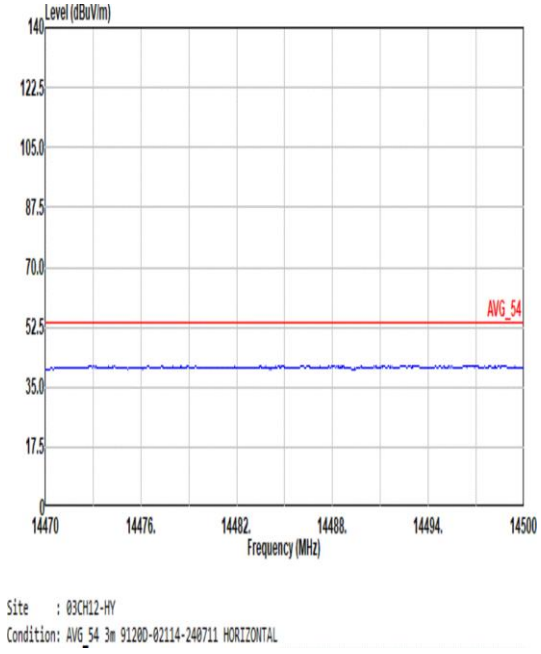
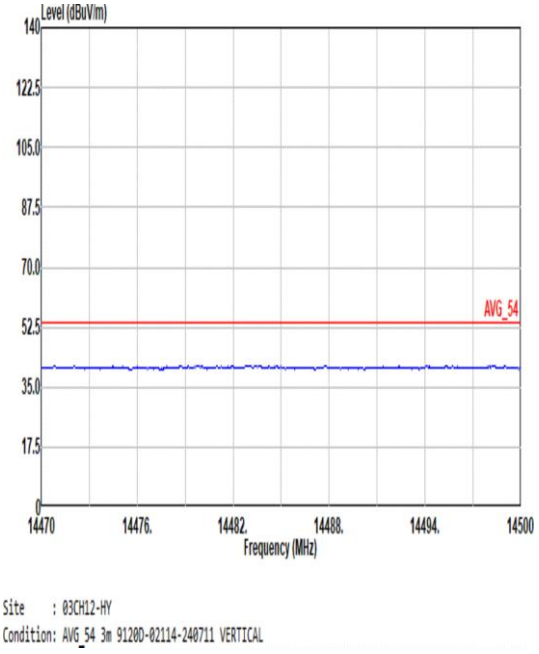
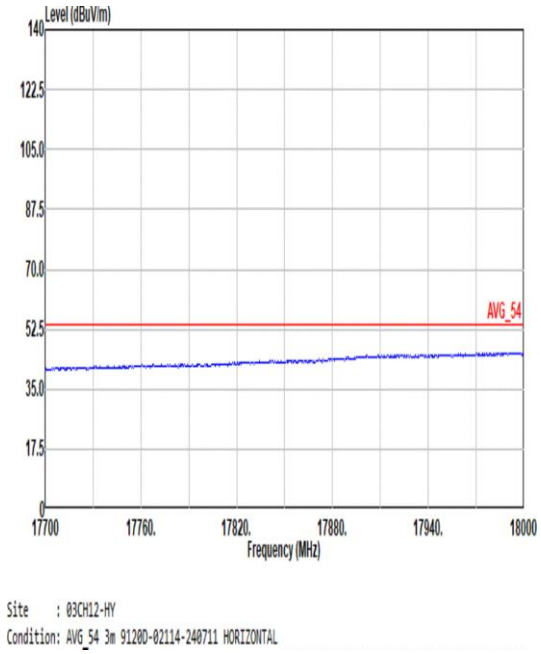
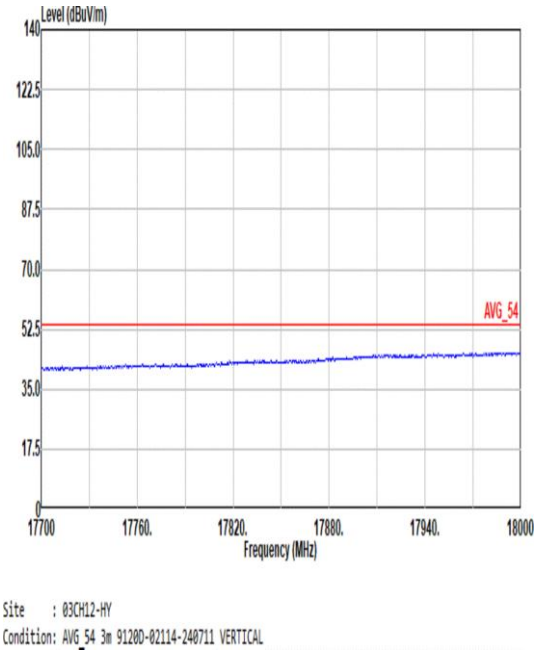
Mode	2	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2386.05 51.61 74.00 -22.39 42.36 27.42 6.60 34.80 10.03 151 343 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 104.36 ------ ------ 94.75 27.70 6.68 34.80 10.03 151 343 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.69 40.07 54.00 -13.93 30.74 27.49 6.61 34.80 10.03 151 343 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 103.80 ------ ------ 94.19 27.70 6.68 34.80 10.03 151 343 AVERAGE

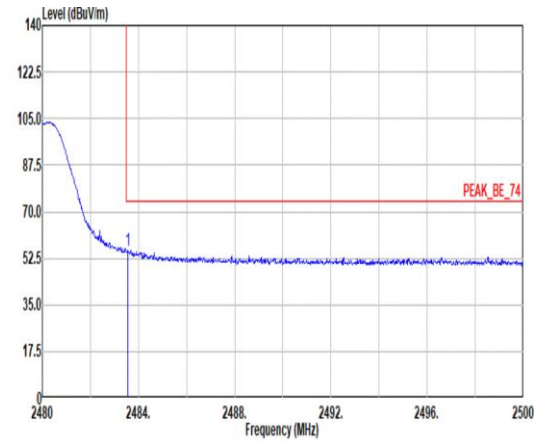
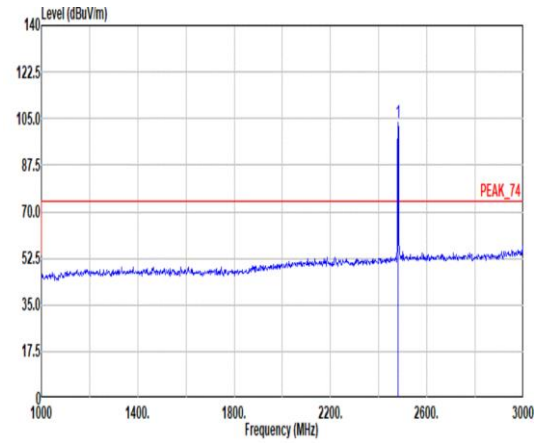
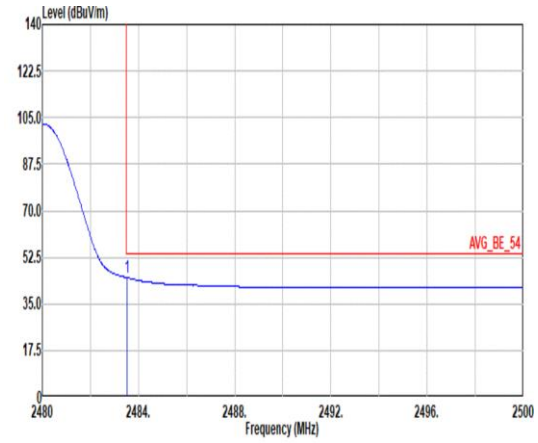
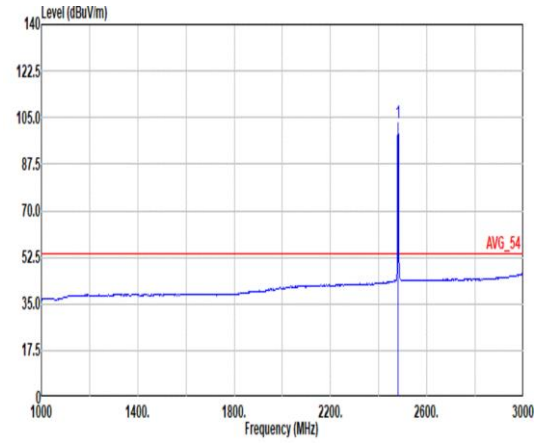
Mode	2	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2489.56 52.06 74.00 -21.94 42.08 28.00 6.75 34.80 10.03 151 343 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2498.62 40.77 54.00 -13.23 30.68 28.09 6.77 34.80 10.03 151 343 AVERAGE	Blank

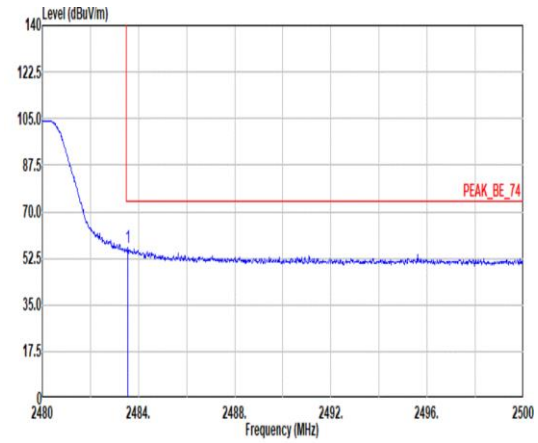
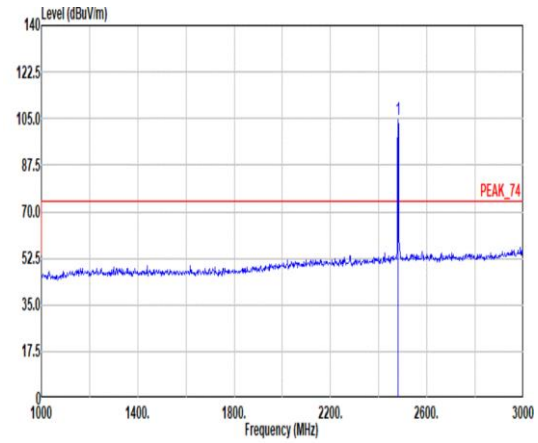
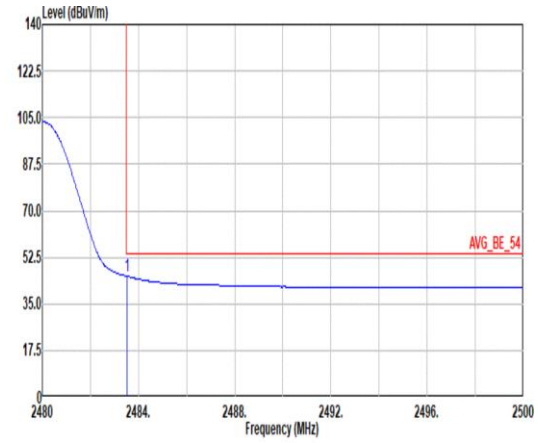
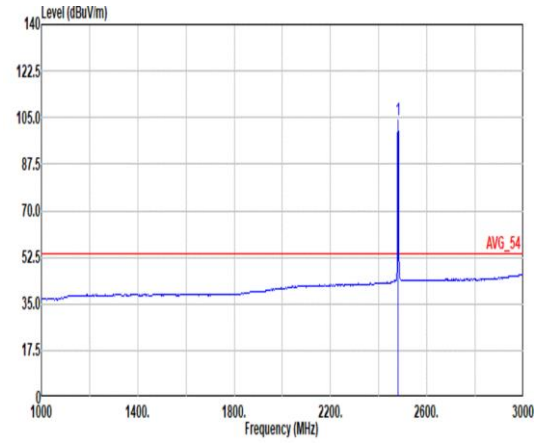
Mode	2	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2362.65 52.28 74.00 -21.72 43.07 27.40 6.57 34.79 10.03 357 106 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 102.27 ------ ------ 92.66 27.70 6.68 34.80 10.03 357 106 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 39.98 54.00 -14.02 30.64 27.50 6.61 34.80 10.03 357 106 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 101.77 ------ ------ 92.16 27.70 6.68 34.80 10.03 357 106 AVERAGE

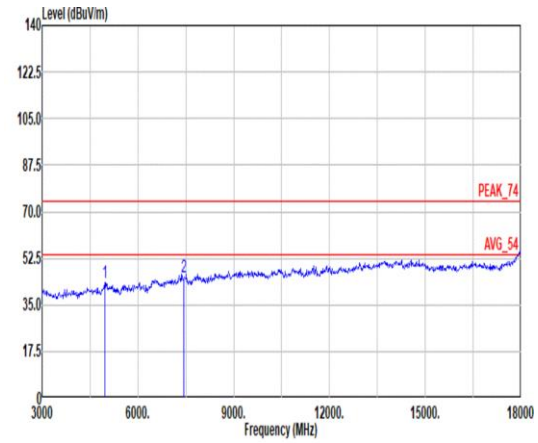
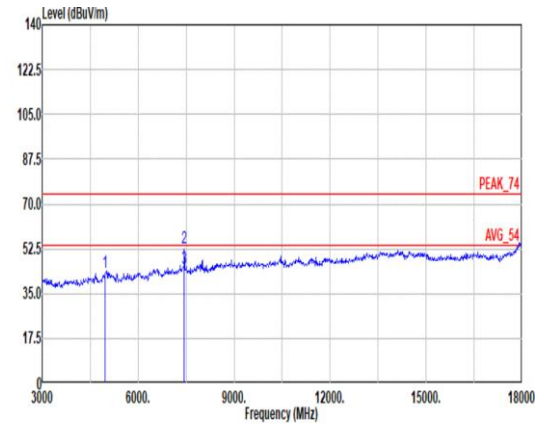
Mode	2	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2489.56 51.71 74.00 -22.29 41.73 28.00 6.75 34.80 10.03 357 106 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2494.54 40.72 54.00 -13.28 30.68 28.05 6.76 34.80 10.03 357 106 AVERAGE	Blank

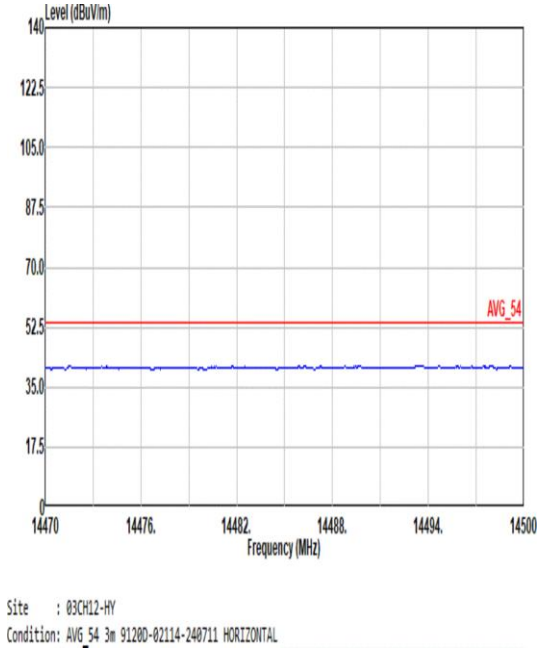
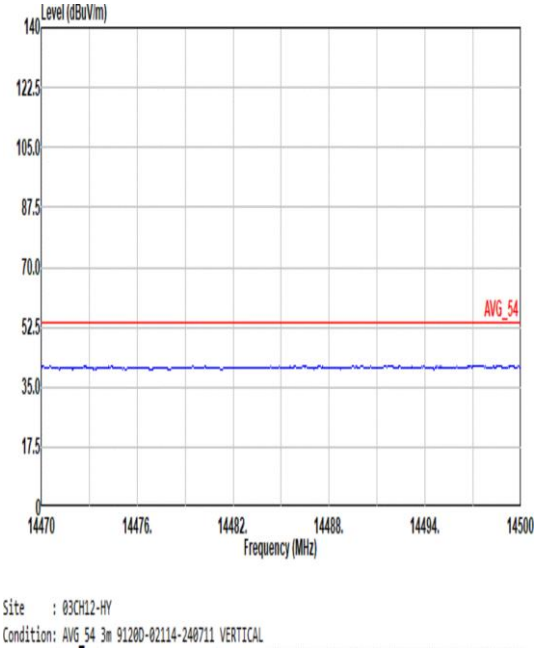
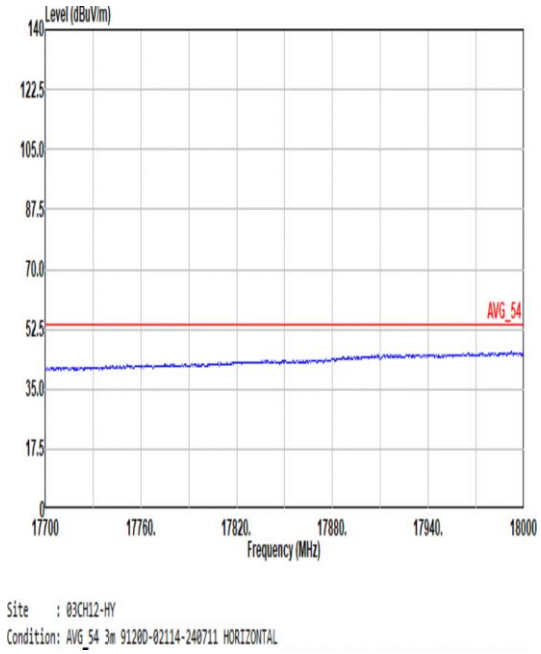
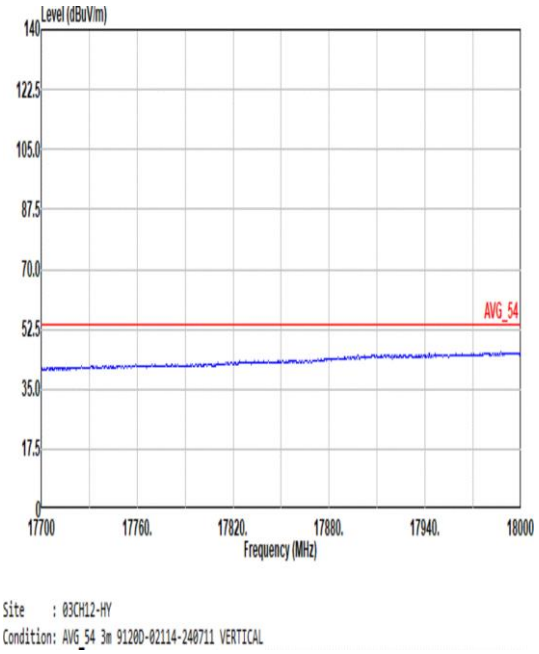
Mode	2	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 41.53 74.00 -32.47 64.76 32.86 10.46 66.99 0.44 -- -- PEAK 2 7320.00 45.70 74.00 -28.30 61.12 37.08 13.20 66.04 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 41.42 74.00 -32.58 64.65 32.86 10.46 66.99 0.44 -- -- PEAK 2 7320.00 51.55 74.00 -22.45 66.97 37.08 13.20 66.04 0.34 100 188 PEAK 3 7320.00 43.91 54.00 -10.09 59.33 37.08 13.20 66.04 0.34 100 188 Average

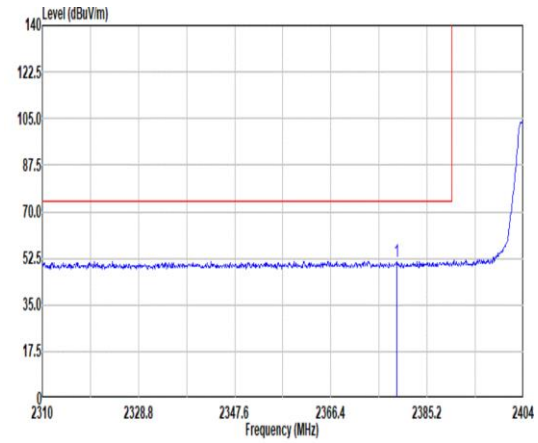
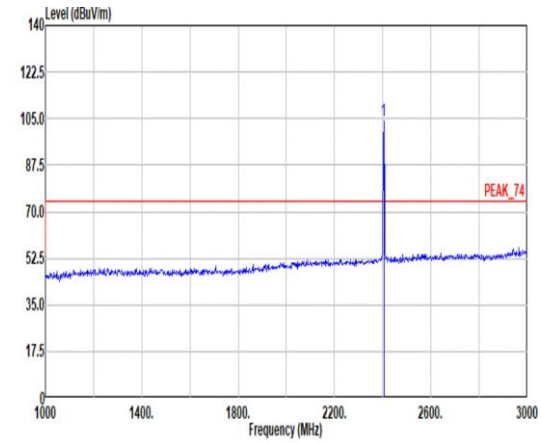
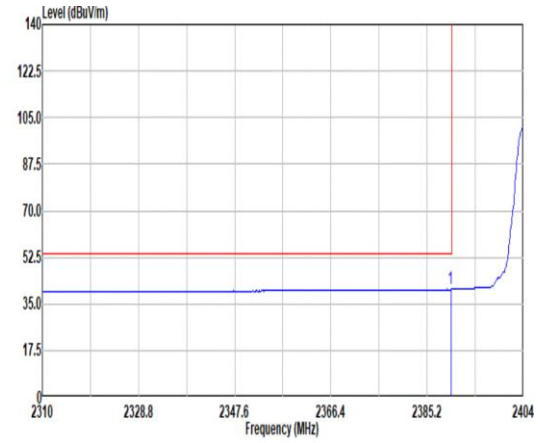
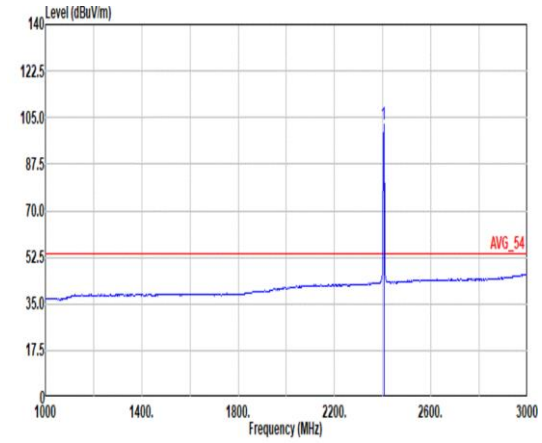
Mode	2	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

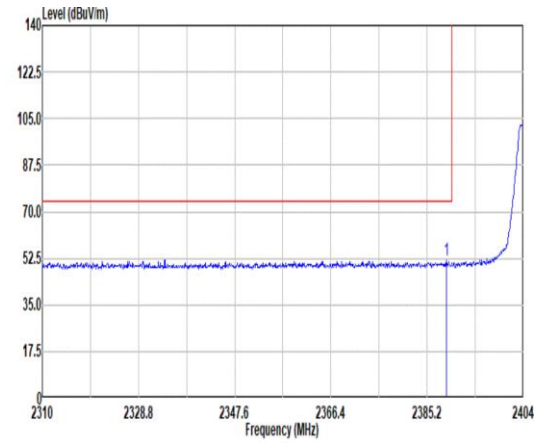
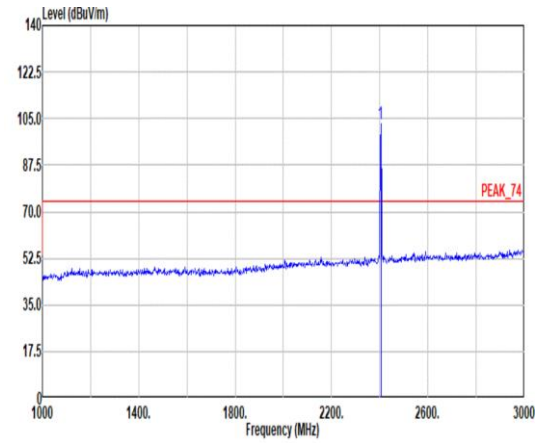
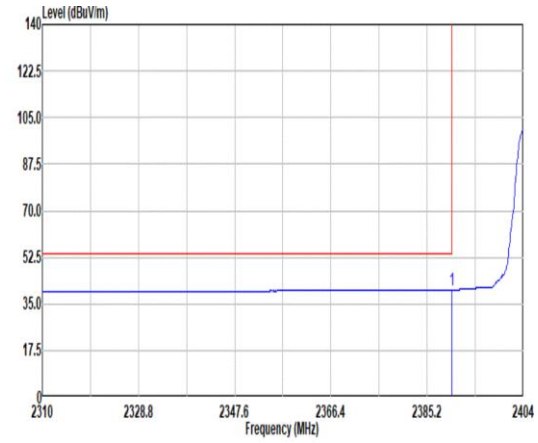
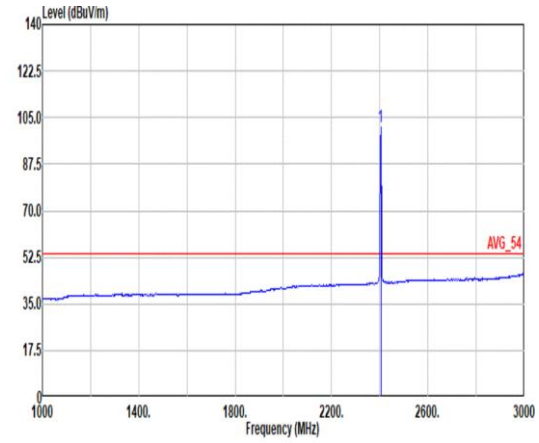
Mode	3	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.56 55.51 74.00 -18.49 45.59 27.94 6.75 34.80 10.03 100 346 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 103.65 ------ ------ 93.78 27.90 6.74 34.80 10.03 100 346 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 44.90 54.00 -9.10 34.98 27.94 6.75 34.80 10.03 100 346 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 103.09 ------ ------ 93.22 27.90 6.74 34.80 10.03 100 346 AVERAGE

Mode	3	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.56 56.66 74.00 -17.34 46.74 27.94 6.75 34.80 10.03 400 279 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 104.42 ------ ------ 94.55 27.90 6.74 34.80 10.03 400 279 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 45.42 54.00 -8.58 35.50 27.94 6.75 34.80 10.03 400 279 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 103.90 ------ ------ 94.03 27.90 6.74 34.80 10.03 400 279 AVERAGE

Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 43.38 74.00 -30.62 66.14 33.32 10.36 66.90 0.46 -- -- PEAK 2 7440.00 45.56 74.00 -28.44 61.31 36.68 13.37 66.14 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 43.09 74.00 -30.91 65.85 33.32 10.36 66.90 0.46 -- -- PEAK 2 7440.00 52.65 74.00 -21.35 68.40 36.68 13.37 66.14 0.34 100 191 PEAK 3 7440.00 44.73 54.00 -9.27 60.48 36.68 13.37 66.14 0.34 100 191 Average

Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	4	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2379.18 51.45 74.00 -22.55 42.32 27.31 6.59 34.80 10.03 101 343 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 104.05 ------ ------ 94.59 27.60 6.63 34.80 10.03 101 343 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.81 40.45 54.00 -13.55 31.11 27.50 6.61 34.80 10.03 101 343 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 102.68 ------ ------ 93.22 27.60 6.63 34.80 10.03 101 343 AVERAGE

Mode	4	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH01_2404MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2388.96 51.69 74.00 -22.31 42.37 27.48 6.61 34.80 10.03 335 274 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 102.83 ------ ------ 93.37 27.60 6.63 34.80 10.03 335 274 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.99 40.35 54.00 -13.65 31.01 27.50 6.61 34.80 10.03 335 274 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 101.41 ------ ------ 91.95 27.60 6.63 34.80 10.03 335 274 AVERAGE

Mode	4	
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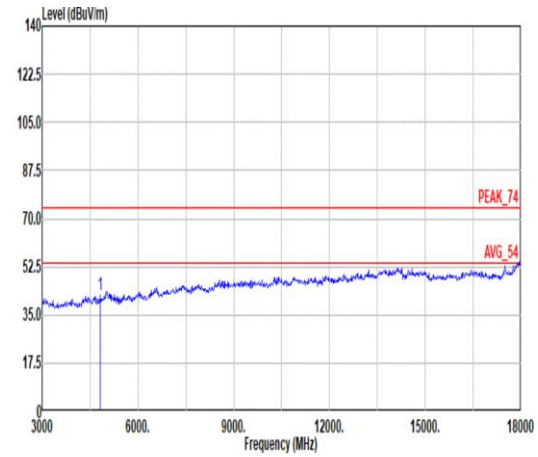
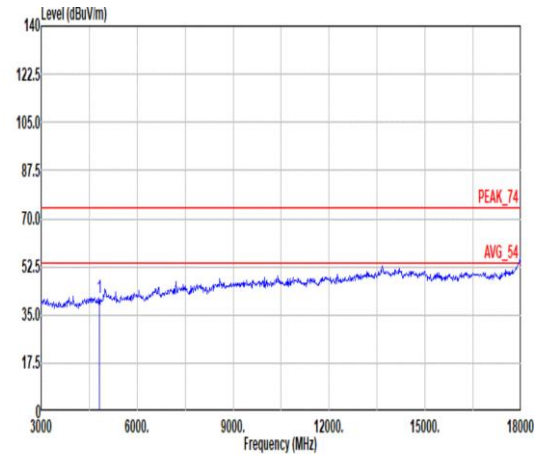
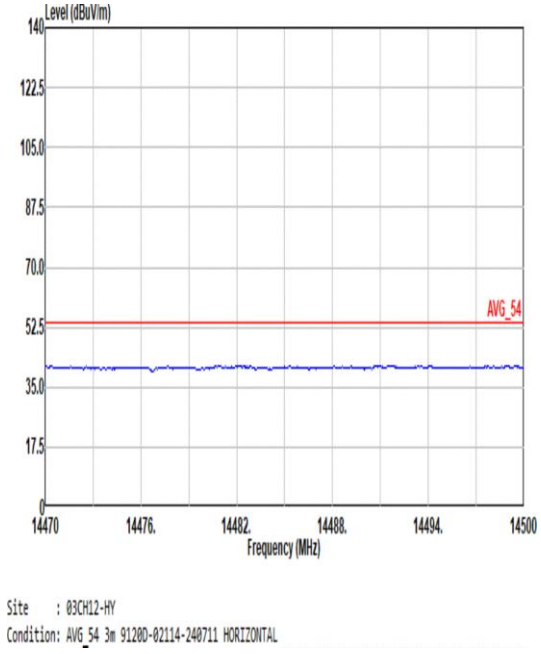
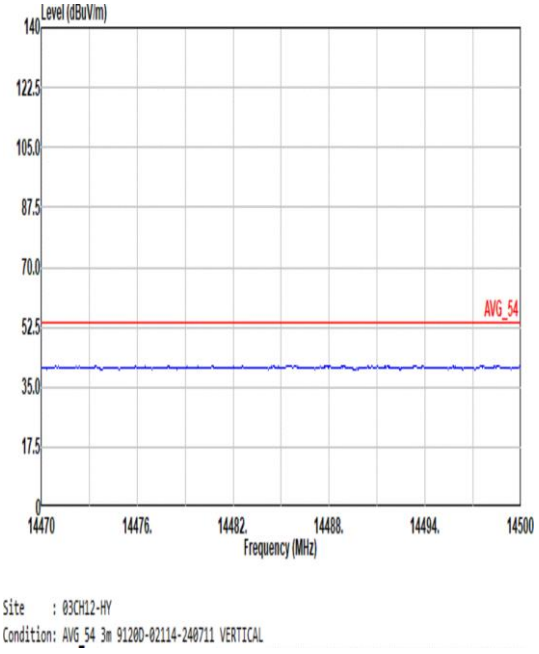
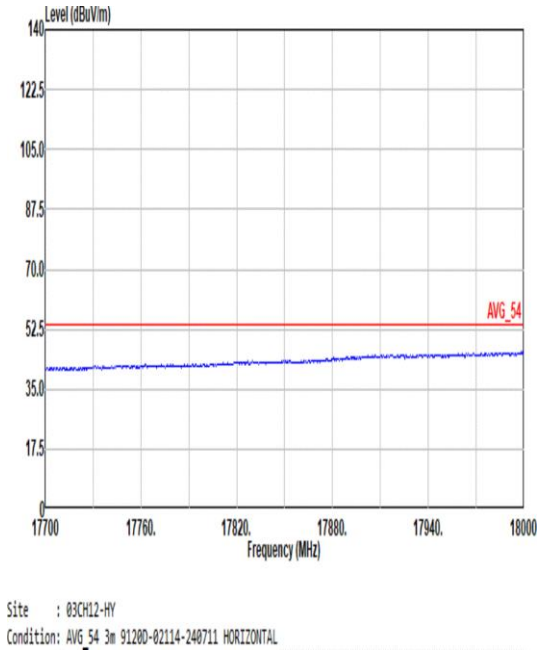
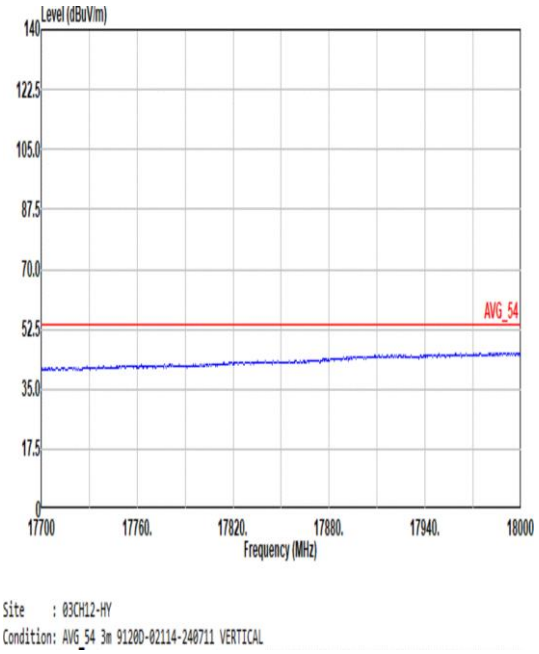
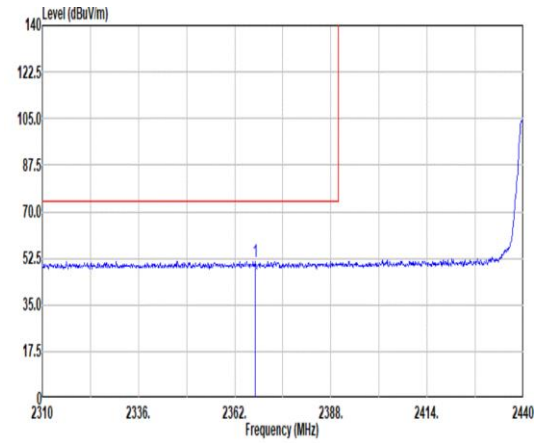
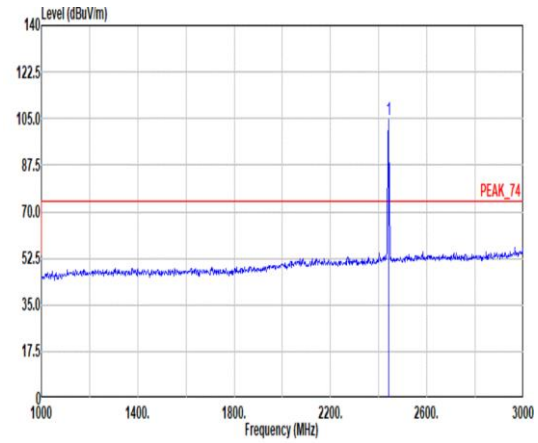
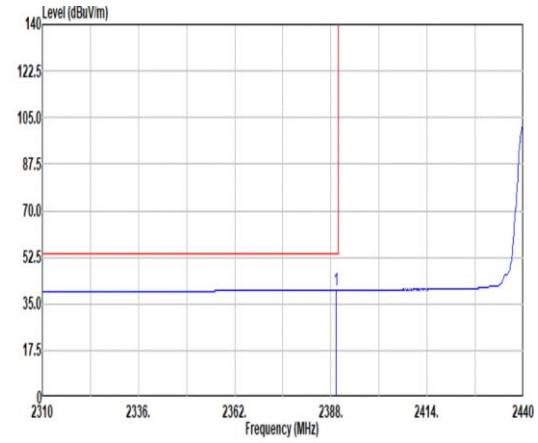
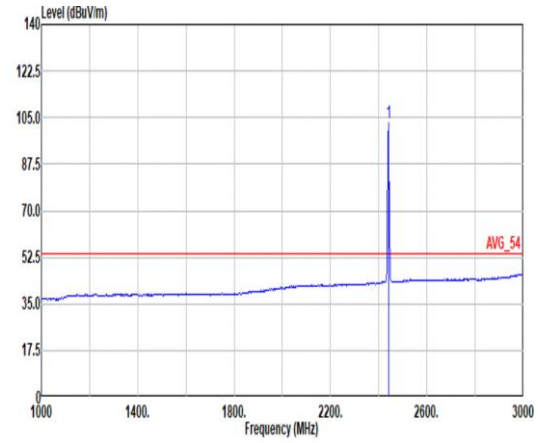
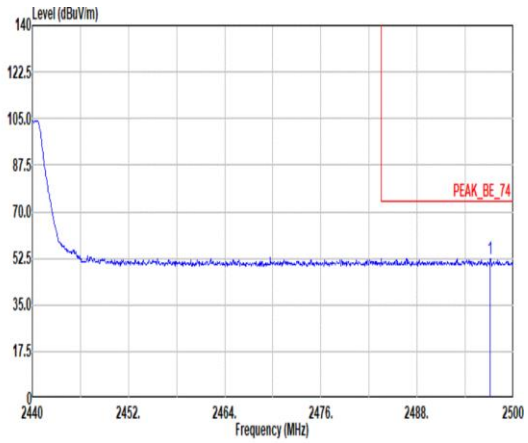
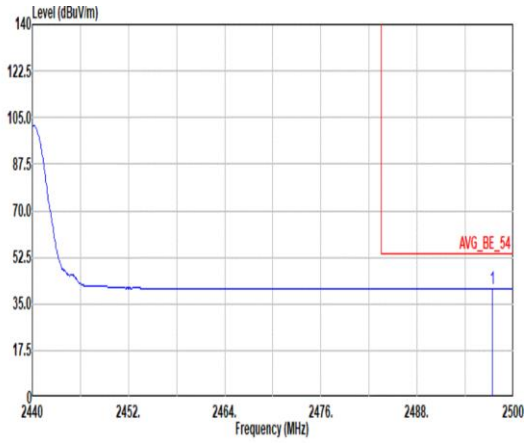
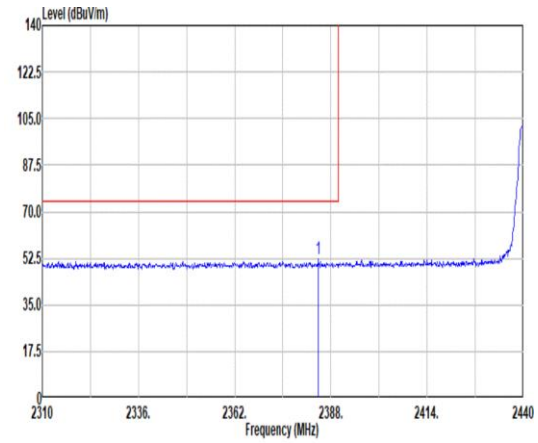
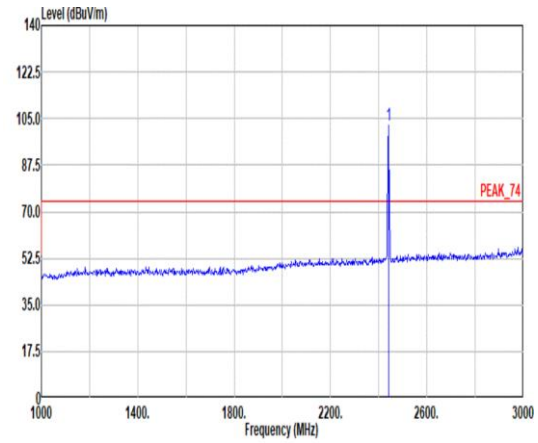
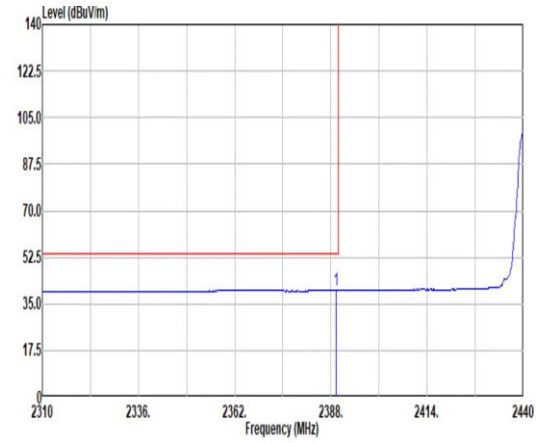
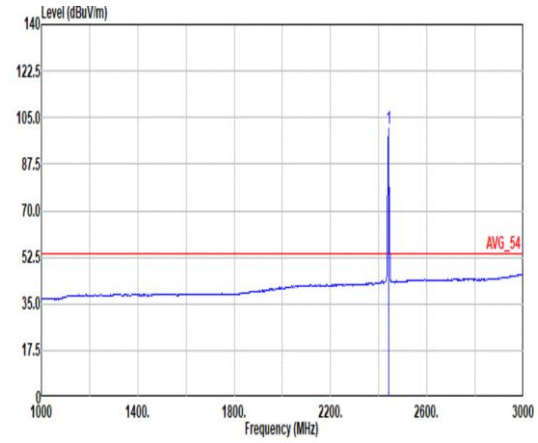
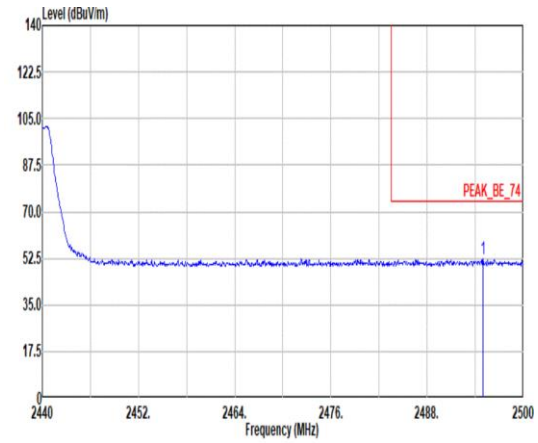
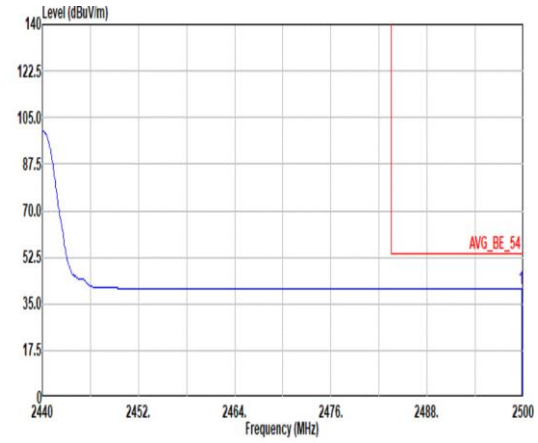
	2400-2483.5_Bluetooth-LE GFSK _CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4808.00 42.31 74.00 -31.69 65.87 32.55 10.55 67.08 0.42 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4808.00 41.03 74.00 -32.97 64.59 32.55 10.55 67.08 0.42 -- -- PEAK

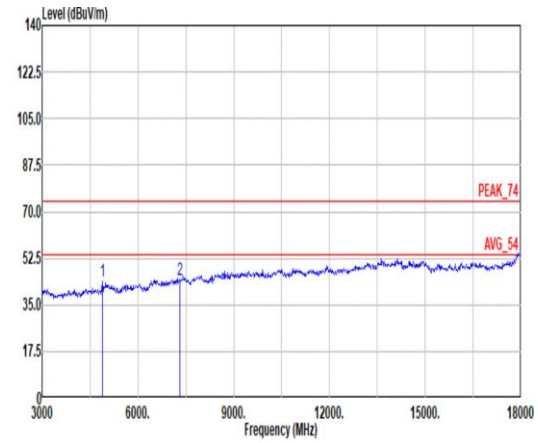
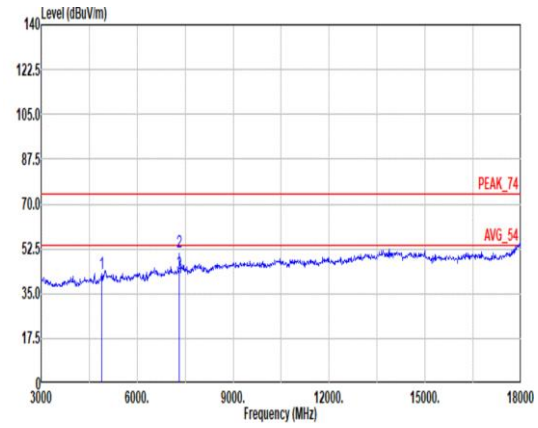
Mode	4	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

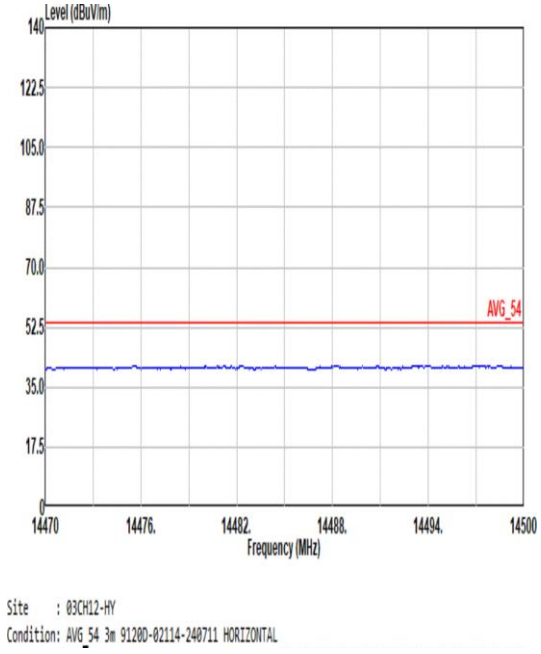
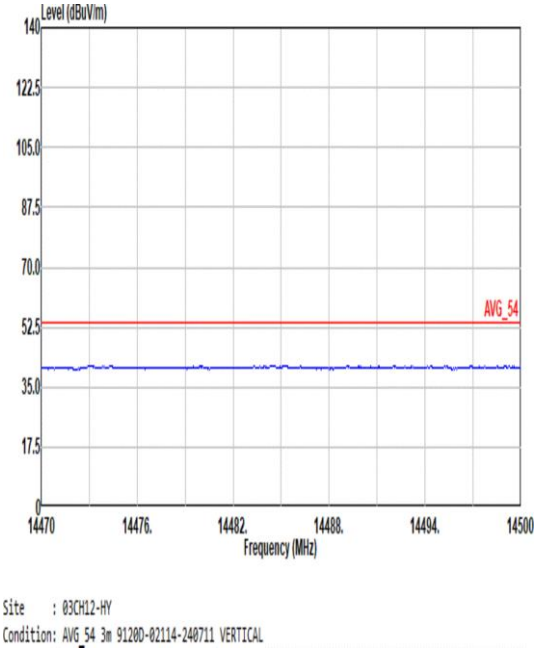
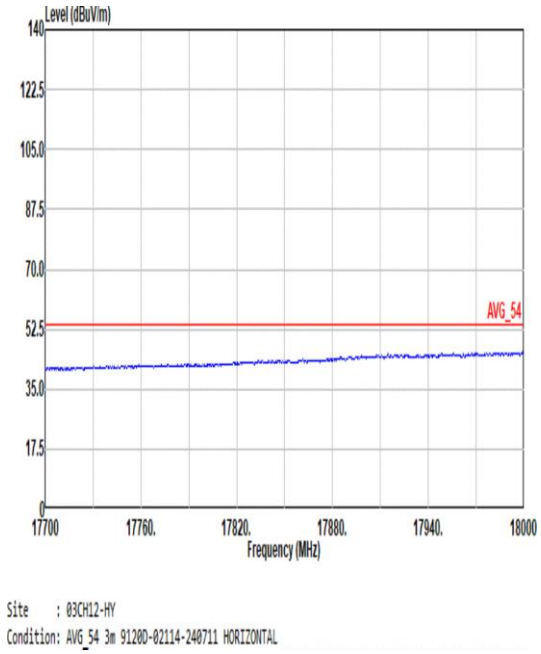
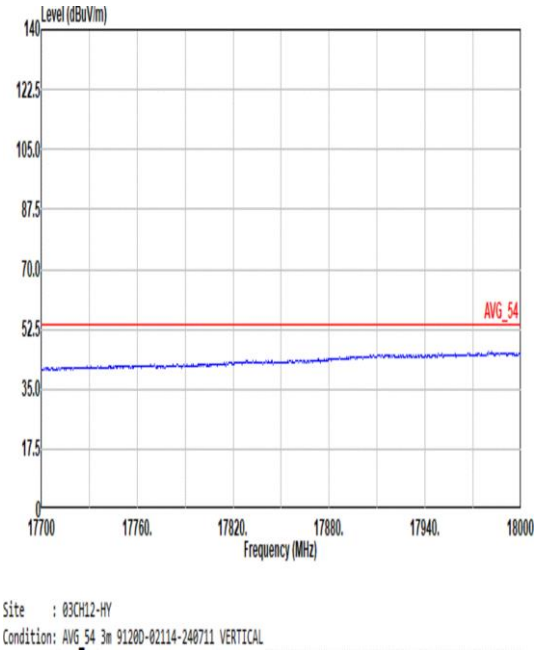
Mode	5	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2367.46 51.47 74.00 -22.53 42.25 27.40 6.58 34.79 10.03 152 344 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 104.60 ------ ------ 94.99 27.70 6.68 34.80 10.03 152 344 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.43 40.15 54.00 -13.85 30.82 27.49 6.61 34.80 10.03 152 344 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 103.26 ------ ------ 93.65 27.70 6.68 34.80 10.03 152 344 AVERAGE

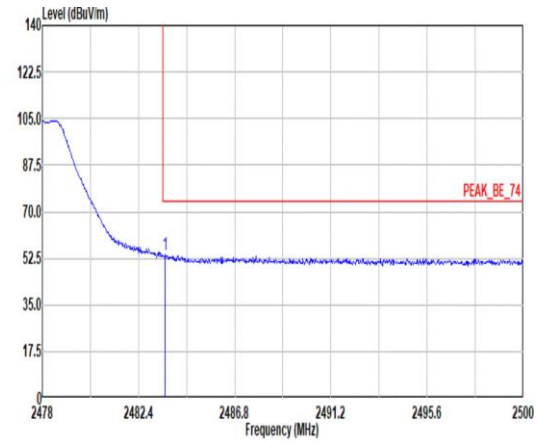
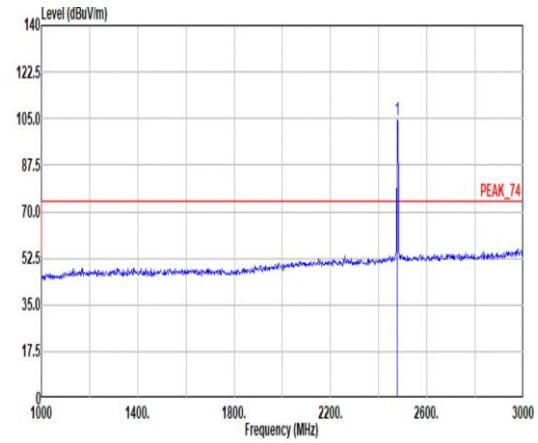
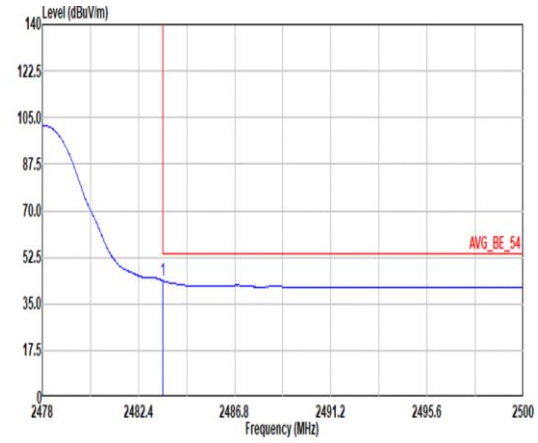
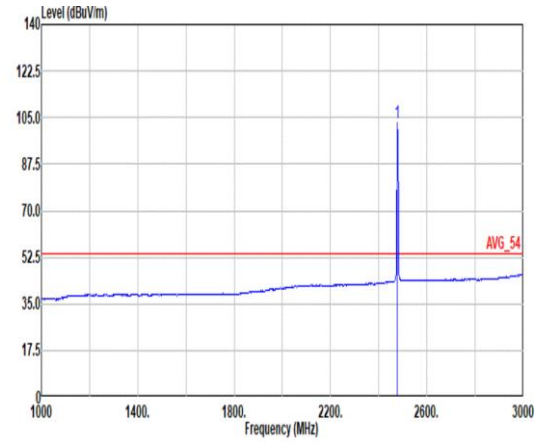
Mode	5	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2497.12 52.33 74.00 -21.67 42.26 28.07 6.77 34.80 10.03 152 344 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2497.42 40.80 54.00 -13.20 30.73 28.07 6.77 34.80 10.03 152 344 AVERAGE	Blank

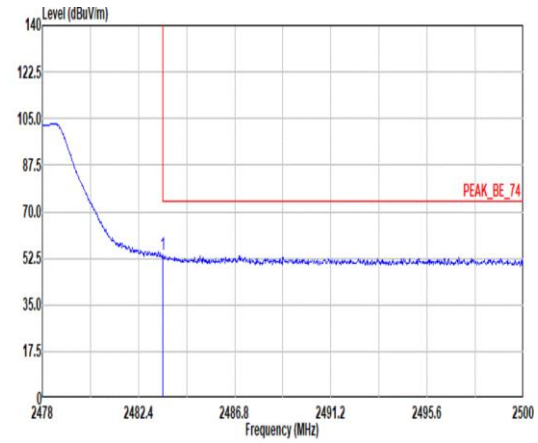
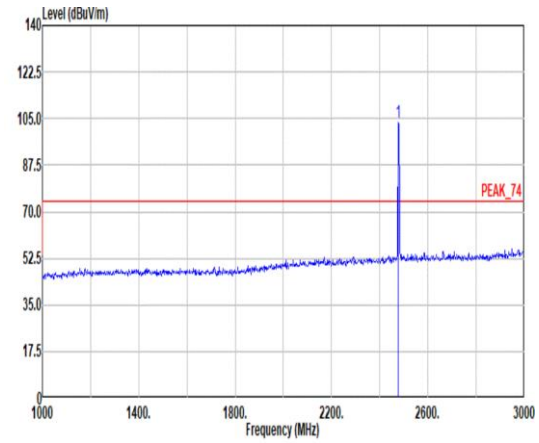
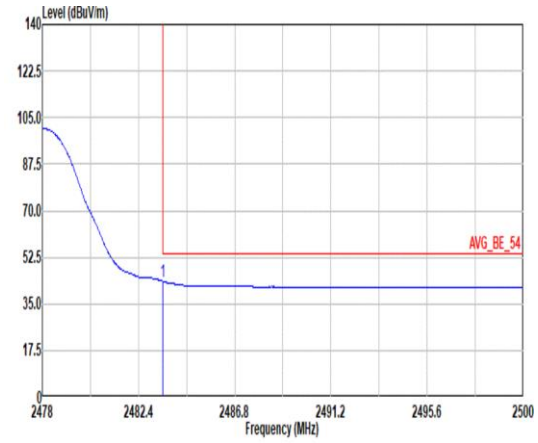
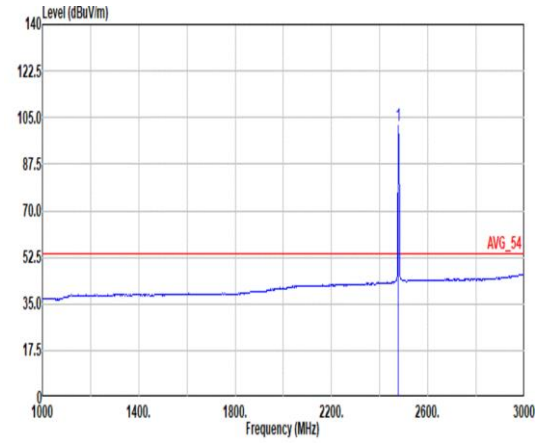
Mode	5	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2384.62 52.25 74.00 -21.75 43.03 27.39 6.60 34.80 10.03 356 106 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 102.33 ------ ------ 92.72 27.70 6.68 34.80 10.03 356 106 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.30 40.09 54.00 -13.91 30.76 27.49 6.61 34.80 10.03 356 106 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 100.94 ------ ------ 91.33 27.70 6.68 34.80 10.03 356 106 AVERAGE

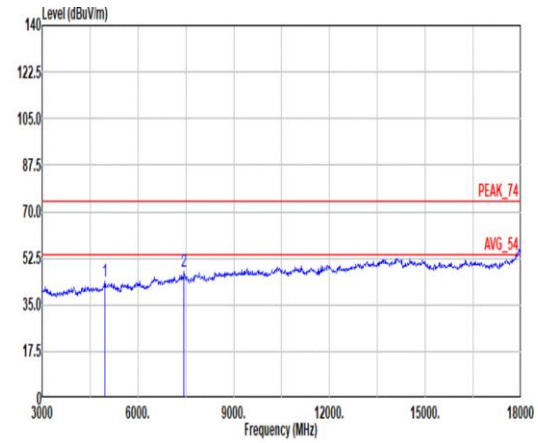
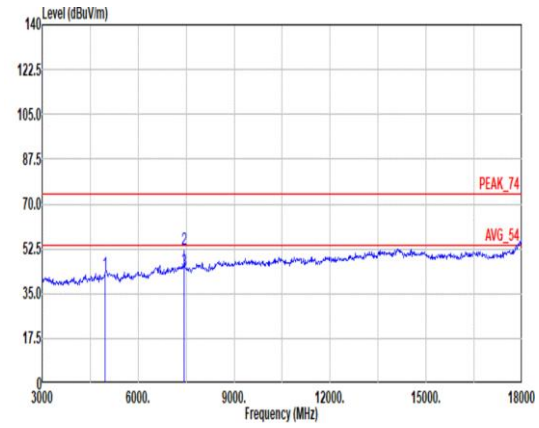
Mode	5	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2494.96 52.41 74.00 -21.59 42.37 28.05 6.76 34.80 10.03 356 106 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2499.76 40.76 54.00 -13.24 30.66 28.10 6.77 34.80 10.03 356 106 AVERAGE	Blank

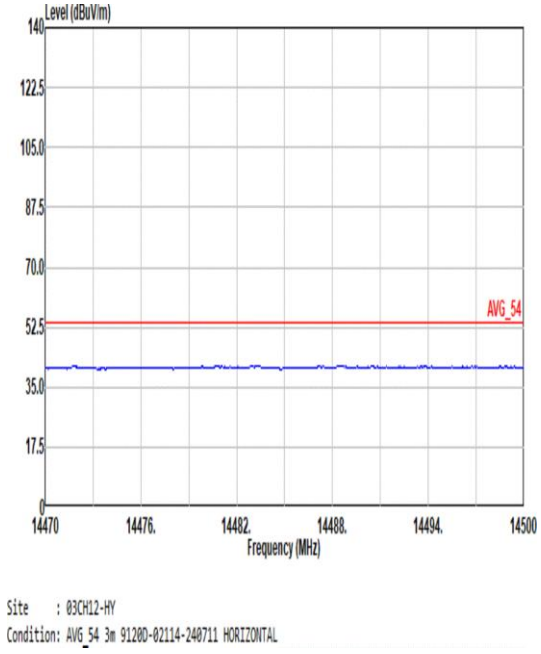
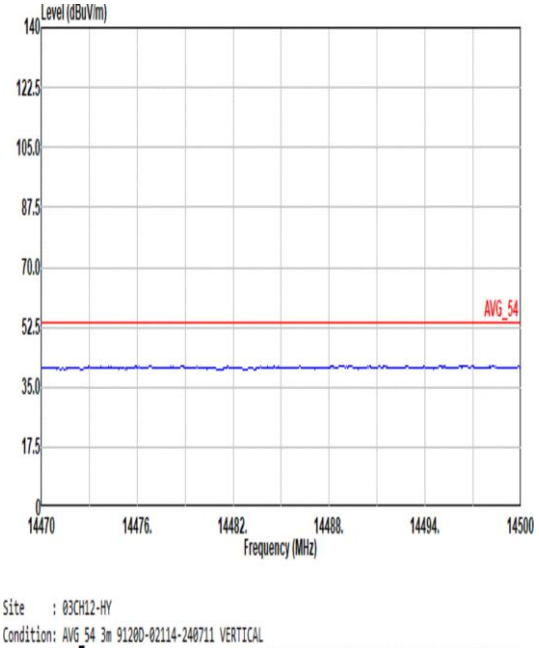
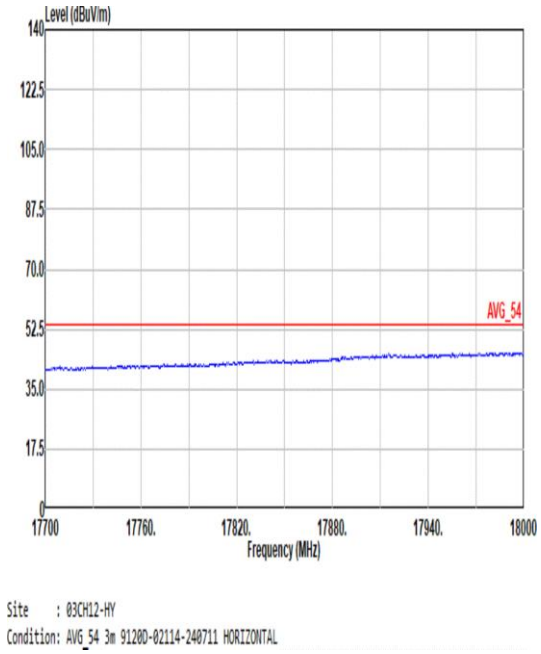
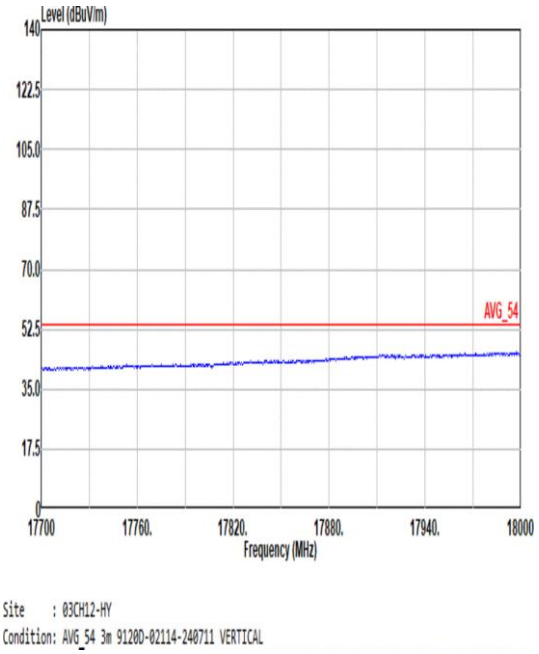
Mode	5	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 43.59 74.00 -30.41 66.82 32.86 10.46 66.99 0.44 -- -- PEAK 2 7320.00 44.51 74.00 -29.49 59.93 37.08 13.20 66.04 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 42.59 74.00 -31.41 65.82 32.86 10.46 66.99 0.44 -- -- PEAK 2 7320.00 51.31 74.00 -22.69 66.73 37.08 13.20 66.04 0.34 100 189 PEAK 3 7320.00 42.83 54.00 -11.17 58.25 37.08 13.20 66.04 0.34 100 189 Average

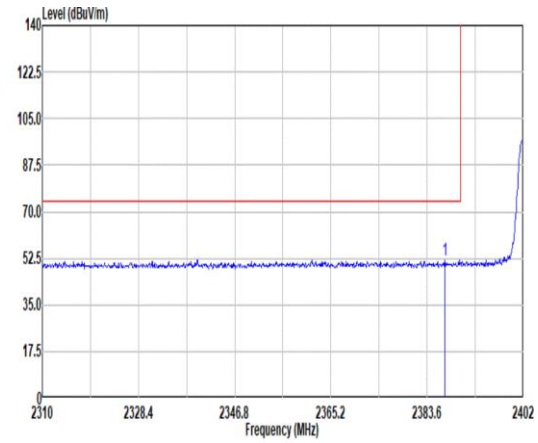
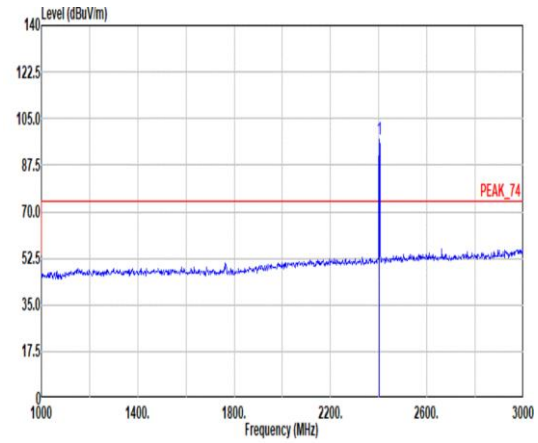
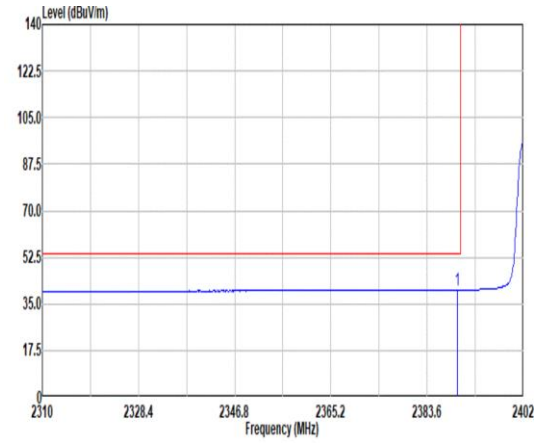
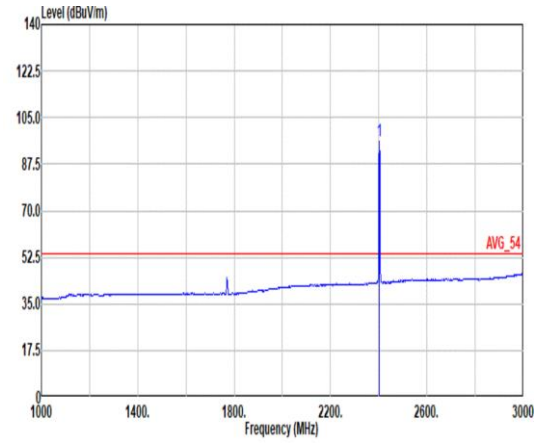
Mode	5	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

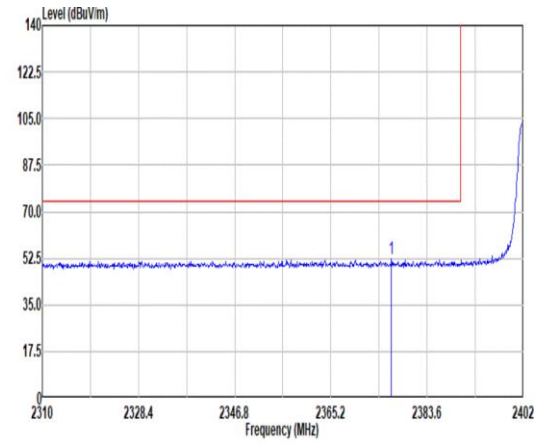
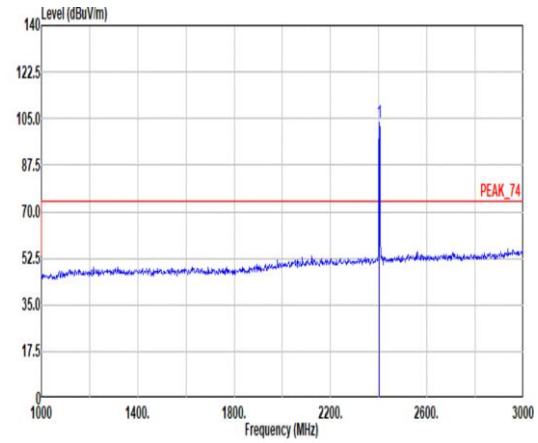
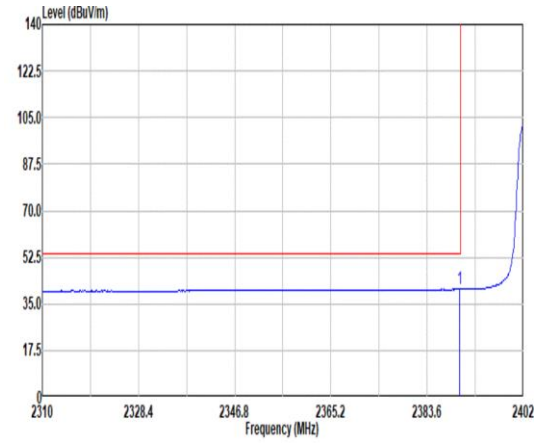
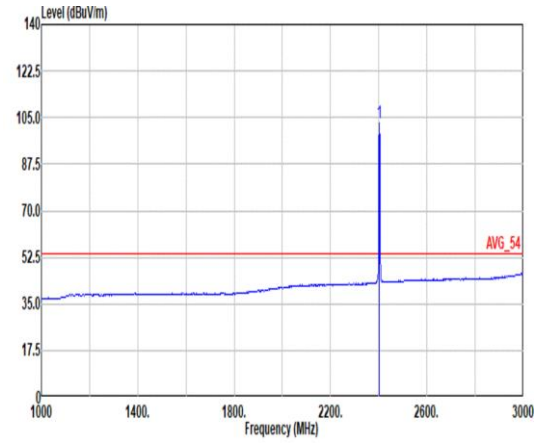
Mode	6	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH38_2478MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.63 53.83 74.00 -20.17 43.91 27.94 6.75 34.80 10.03 115 343 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 104.58 ------ ------ 94.73 27.88 6.74 34.80 10.03 115 343 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 43.69 54.00 -10.31 33.77 27.94 6.75 34.80 10.03 115 343 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 103.17 ------ ------ 93.32 27.88 6.74 34.80 10.03 115 343 AVERAGE

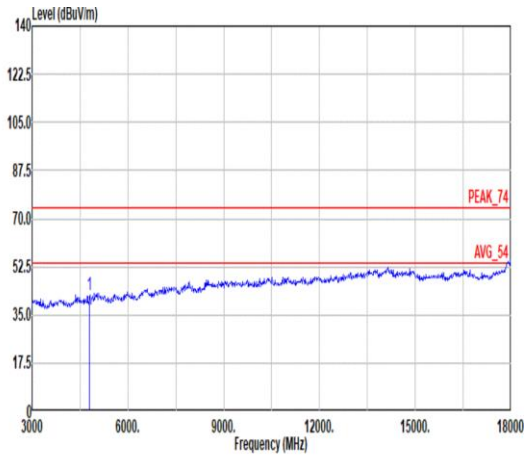
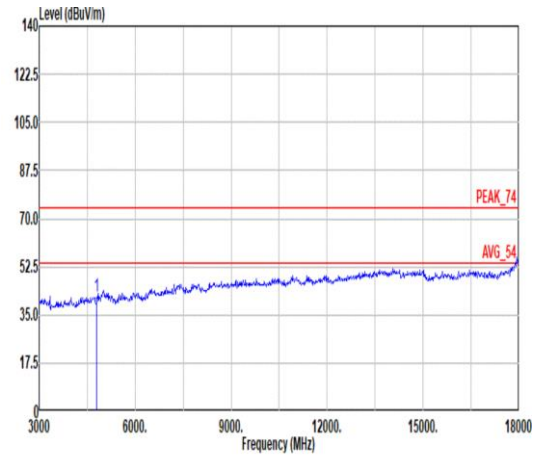
Mode	6	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH38_2478MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 53.90 74.00 -20.10 43.98 27.94 6.75 34.80 10.03 400 283 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 103.35 ------ ------ 93.50 27.88 6.74 34.80 10.03 400 283 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 43.48 54.00 -10.52 33.56 27.94 6.75 34.80 10.03 400 283 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 102.07 ------ ------ 92.22 27.88 6.74 34.80 10.03 400 283 AVERAGE

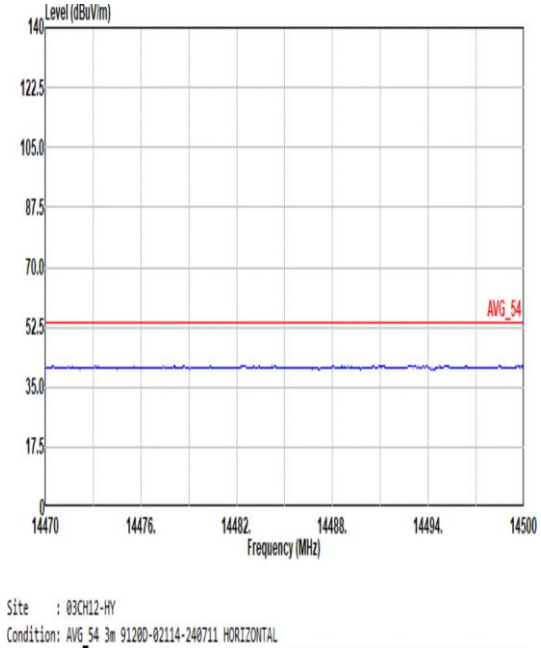
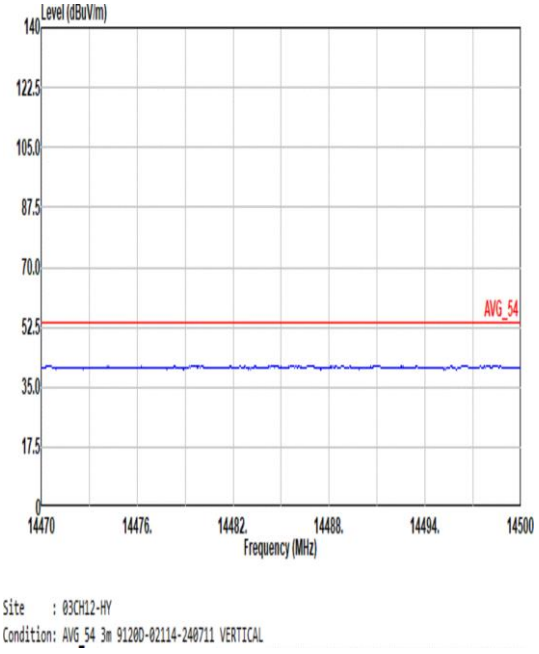
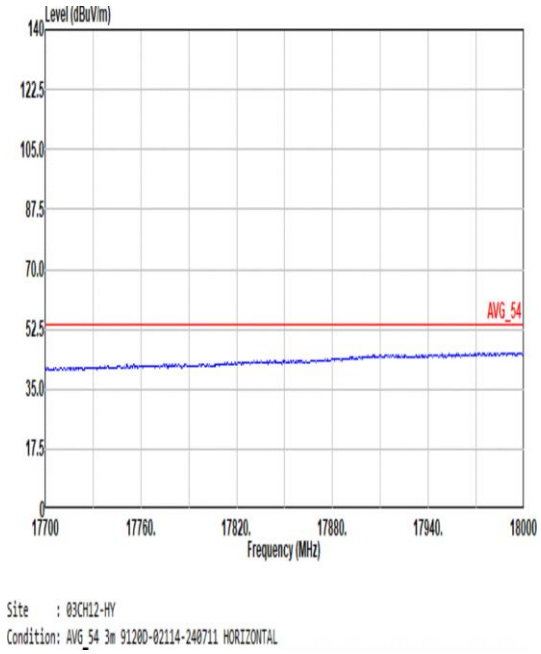
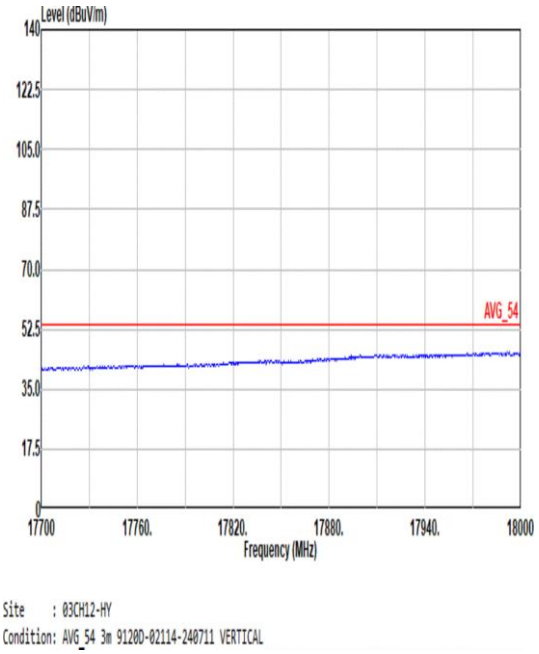
Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH38_2478MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4956.00 43.84 74.00 -30.16 66.60 33.31 10.37 66.90 0.46 -- -- PEAK 2 7434.00 47.55 74.00 -26.45 63.30 36.67 13.37 66.13 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4956.00 42.68 74.00 -31.32 65.44 33.31 10.37 66.90 0.46 -- -- PEAK 2 7434.00 52.34 74.00 -21.66 68.09 36.67 13.37 66.13 0.34 100 189 PEAK 3 7434.00 43.80 54.00 -10.20 59.55 36.67 13.37 66.13 0.34 100 189 Average

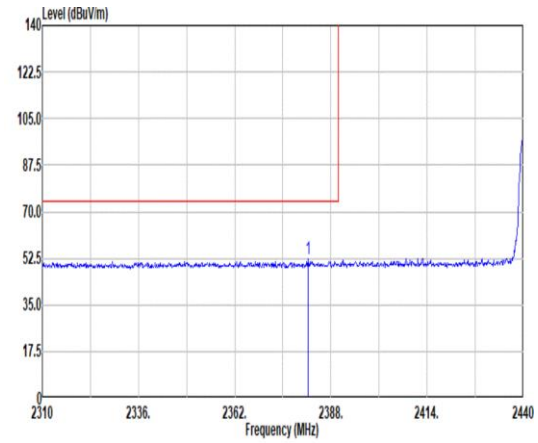
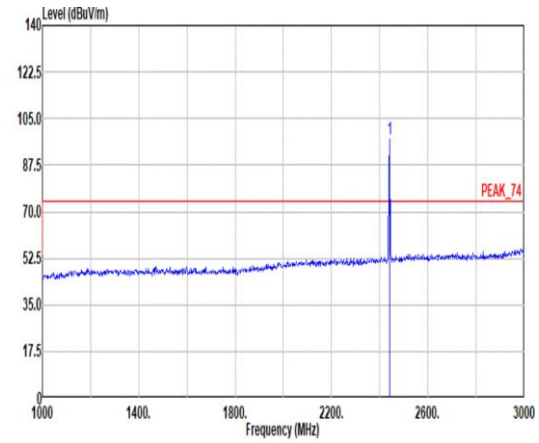
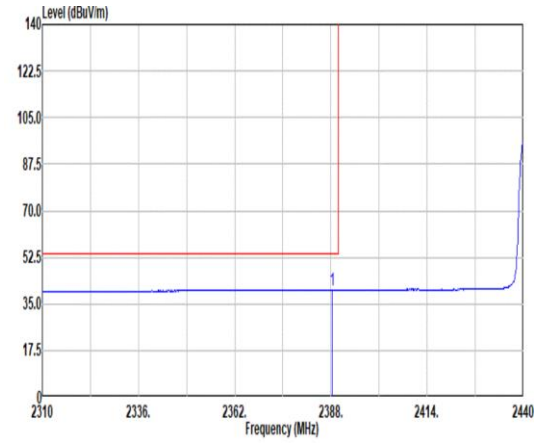
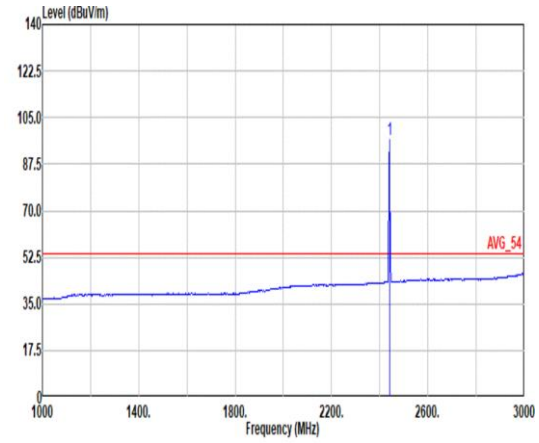
Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH38_2478MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

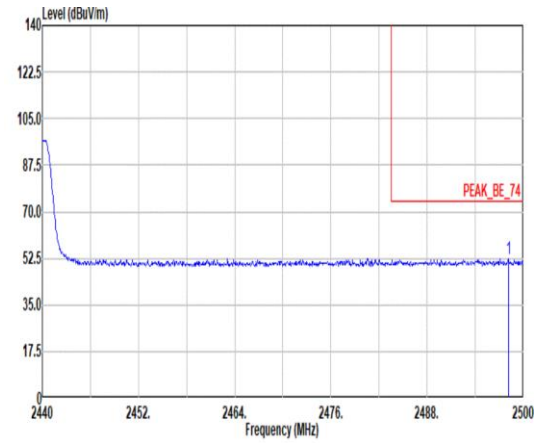
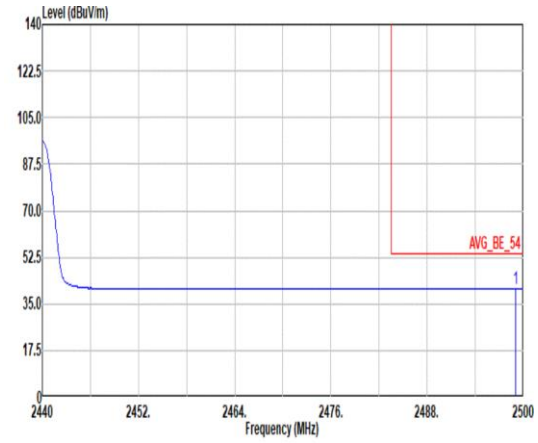
Mode	7	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2387.00 51.98 74.00 -22.02 42.71 27.44 6.60 34.80 10.03 369 321 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 97.05 ------ ------ 87.60 27.60 6.62 34.80 10.03 369 321 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.40 40.30 54.00 -13.70 30.97 27.49 6.61 34.80 10.03 369 321 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 96.36 ------ ------ 86.91 27.60 6.62 34.80 10.03 369 321 AVERAGE

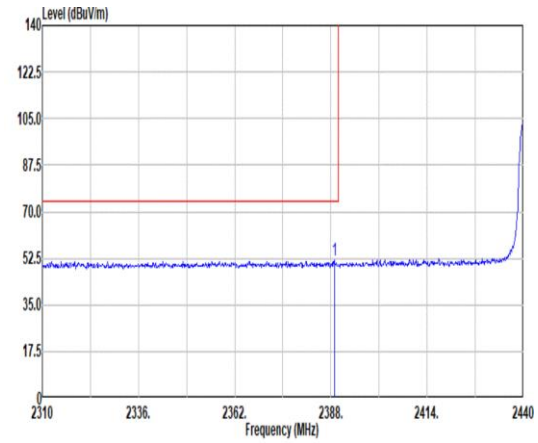
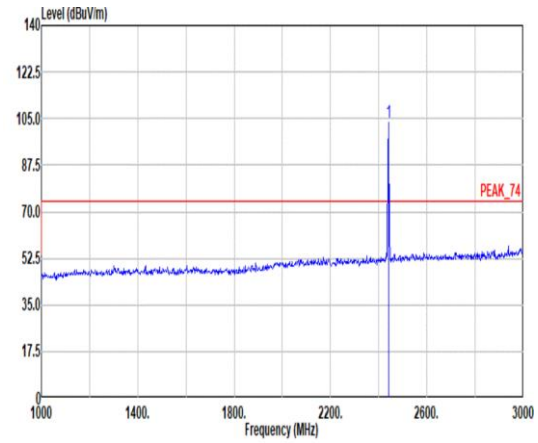
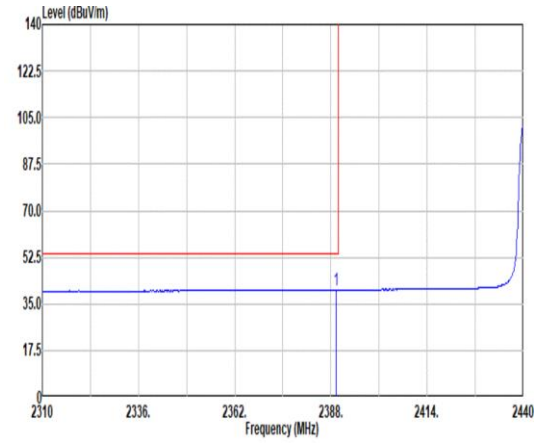
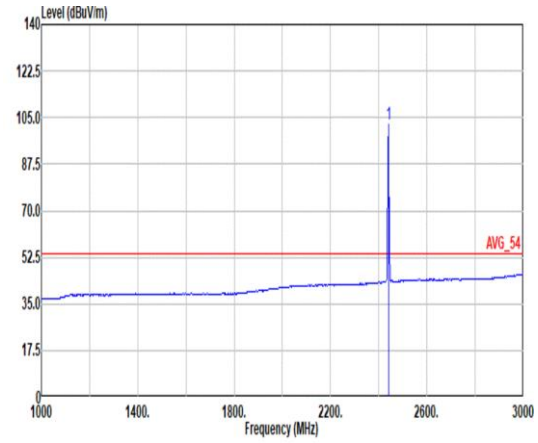
Mode	7	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2376.79 52.28 74.00 -21.72 43.13 27.33 6.59 34.80 10.03 400 306 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 103.49 ------ ------ 94.04 27.60 6.62 34.80 10.03 400 306 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.86 40.52 54.00 -13.48 31.18 27.50 6.61 34.80 10.03 400 306 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 102.84 ------ ------ 93.39 27.60 6.62 34.80 10.03 400 306 AVERAGE

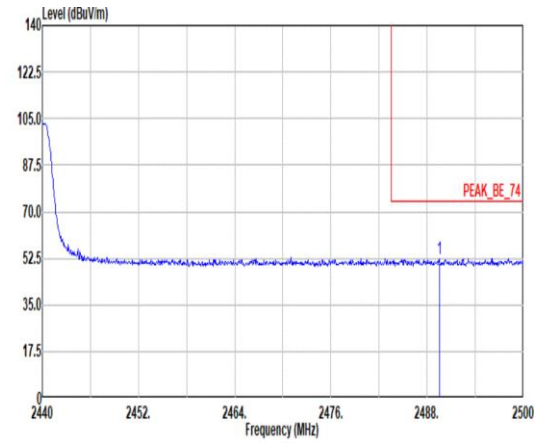
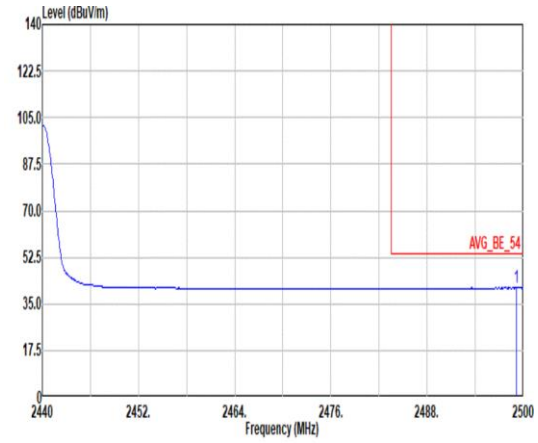
Mode	7	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 42.18 74.00 -31.82 65.76 32.52 10.56 67.08 0.42 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 41.53 74.00 -32.47 65.11 32.52 10.56 67.08 0.42 -- -- PEAK

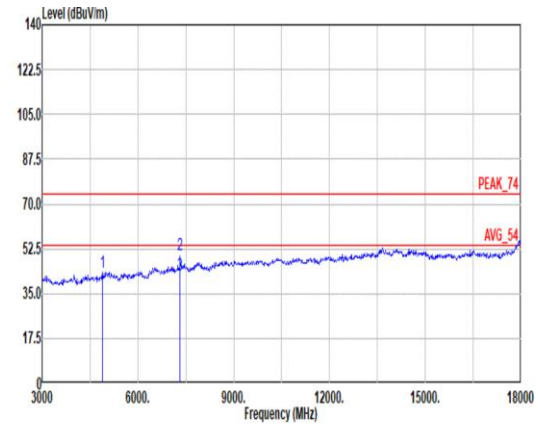
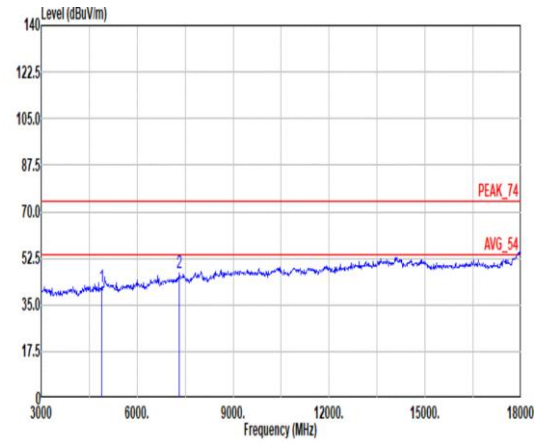
Mode	7	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

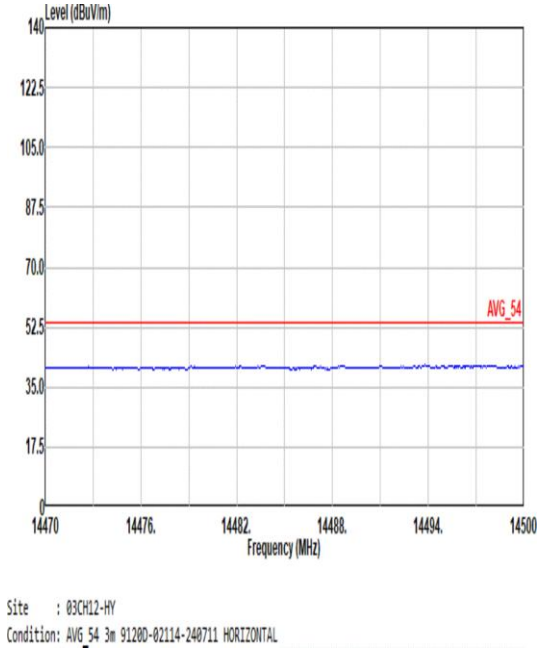
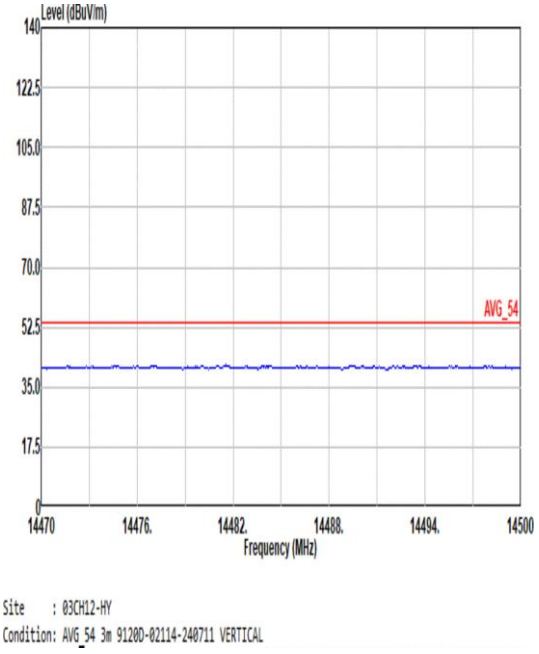
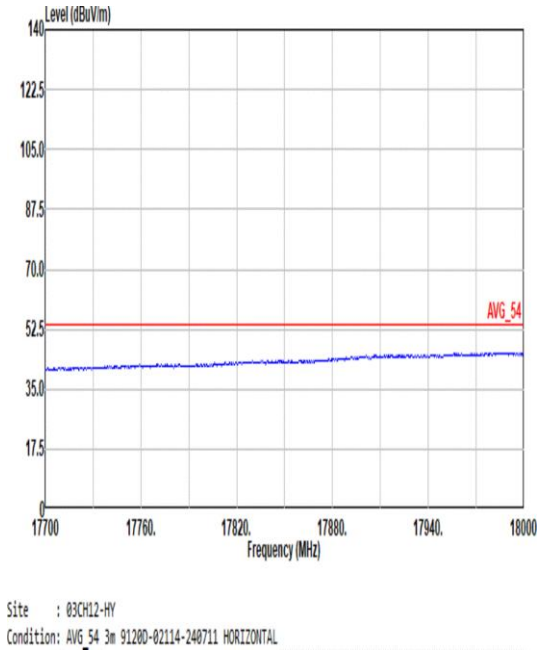
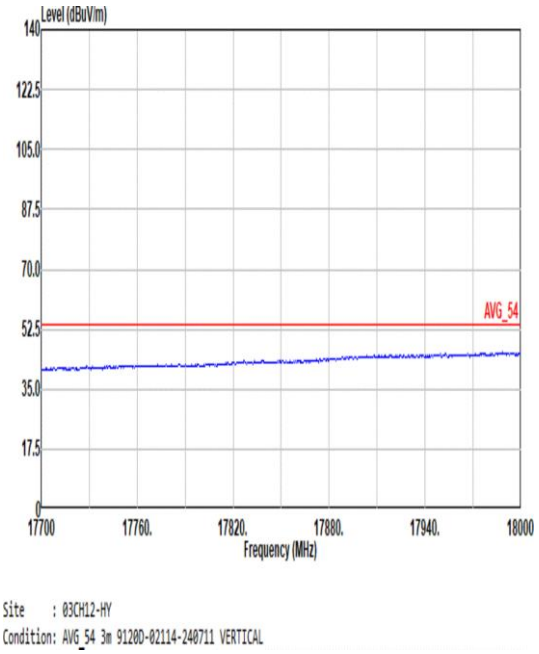
Mode	8	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2381.89 52.23 74.00 -21.77 43.06 27.34 6.60 34.80 10.03 357 320 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 97.16 ------ ------ 87.55 27.70 6.68 34.80 10.03 357 320 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2388.39 40.20 54.00 -13.80 30.90 27.47 6.60 34.80 10.03 357 320 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 96.47 ------ ------ 86.86 27.70 6.68 34.80 10.03 357 320 AVERAGE

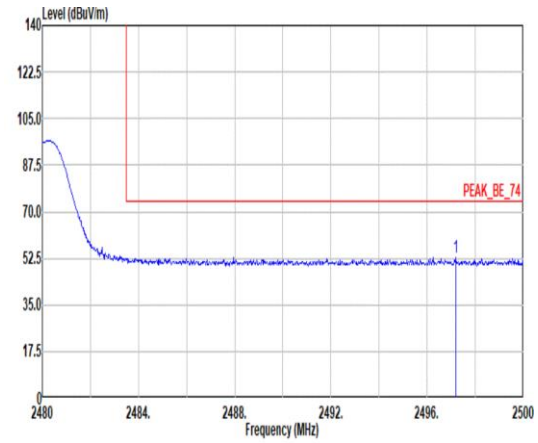
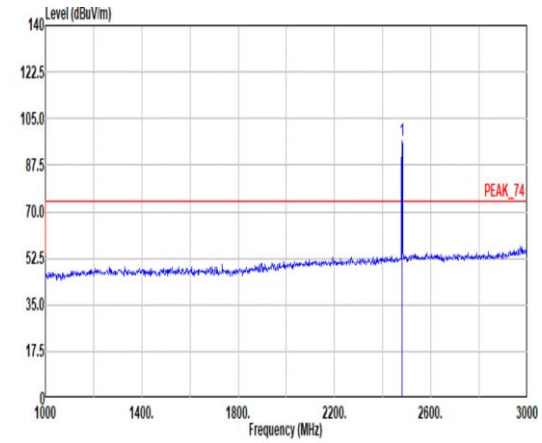
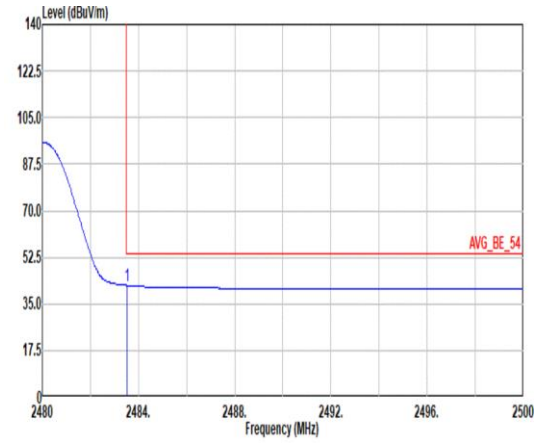
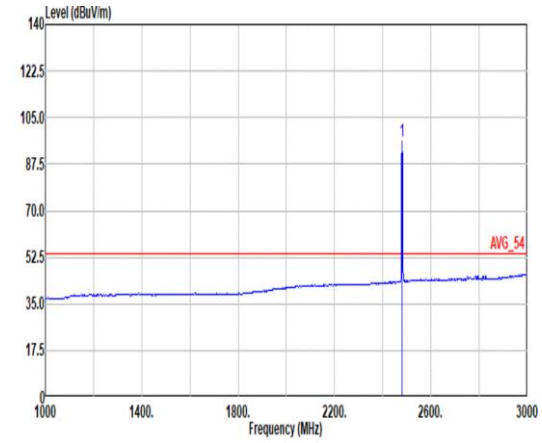
Mode	8	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2498.14 52.41 74.00 -21.59 42.33 28.08 6.77 34.80 10.03 357 320 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2499.04 40.92 54.00 -13.08 30.83 28.09 6.77 34.80 10.03 357 320 AVERAGE	Blank

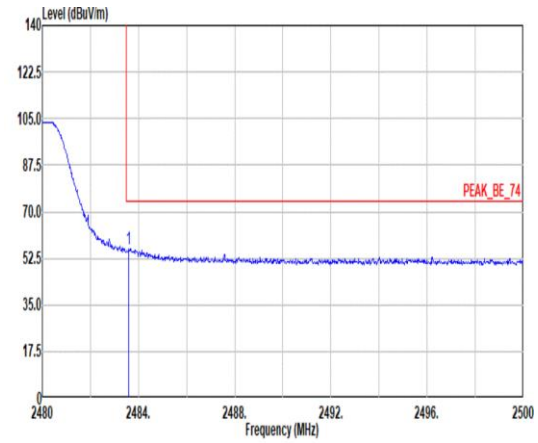
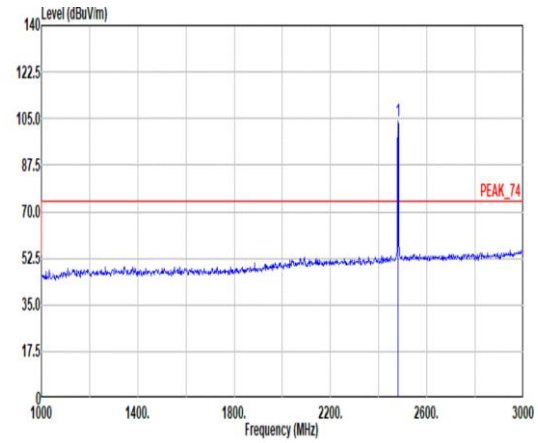
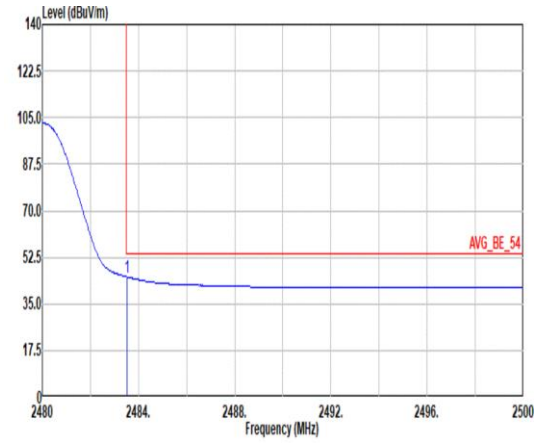
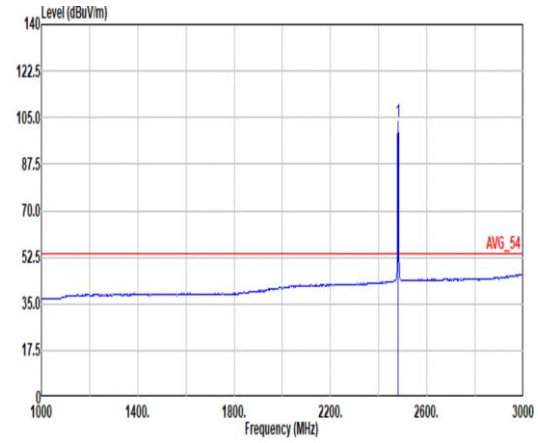
Mode	8	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2388.91 51.70 74.00 -22.30 42.38 27.48 6.61 34.80 10.03 400 145 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 103.33 ------ ------ 93.72 27.70 6.68 34.80 10.03 400 145 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.43 40.29 54.00 -13.71 30.96 27.49 6.61 34.80 10.03 400 145 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 102.64 ------ ------ 93.03 27.70 6.68 34.80 10.03 400 145 AVERAGE

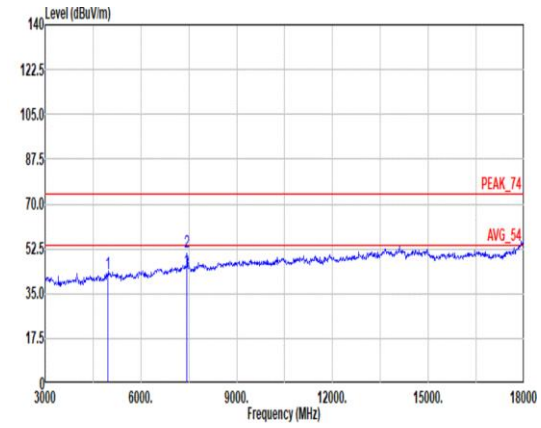
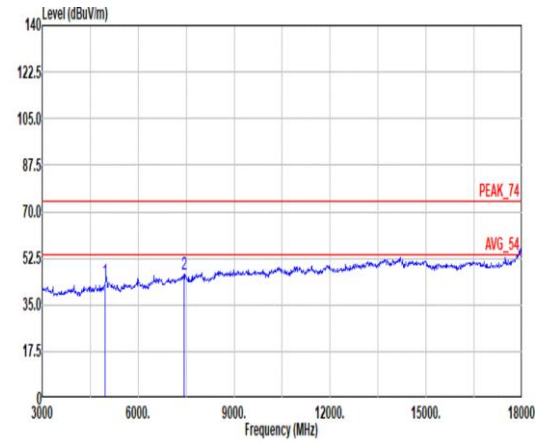
Mode	8	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2489.50 52.54 74.00 -21.46 42.56 28.00 6.75 34.80 10.03 400 145 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2499.16 40.99 54.00 -13.01 30.90 28.09 6.77 34.80 10.03 400 145 AVERAGE	Blank

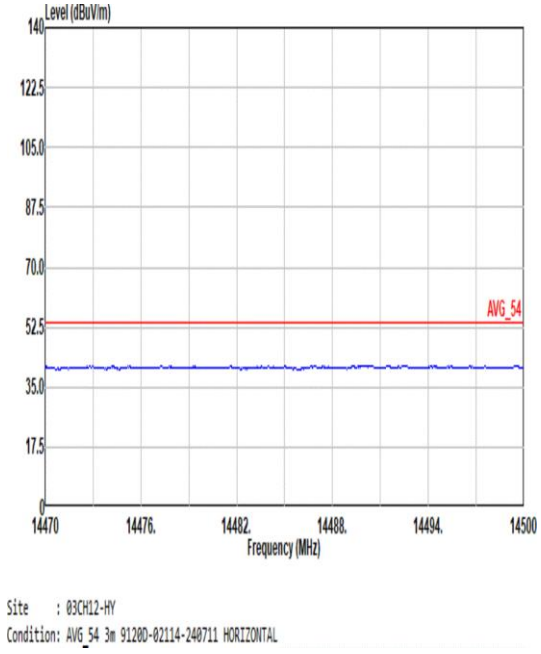
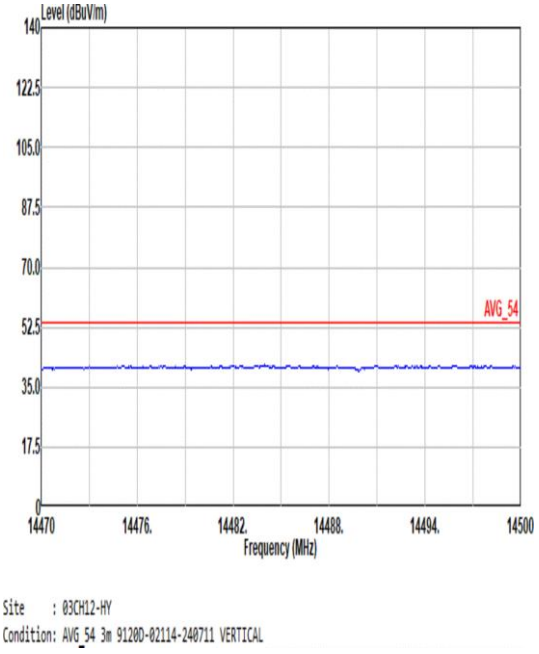
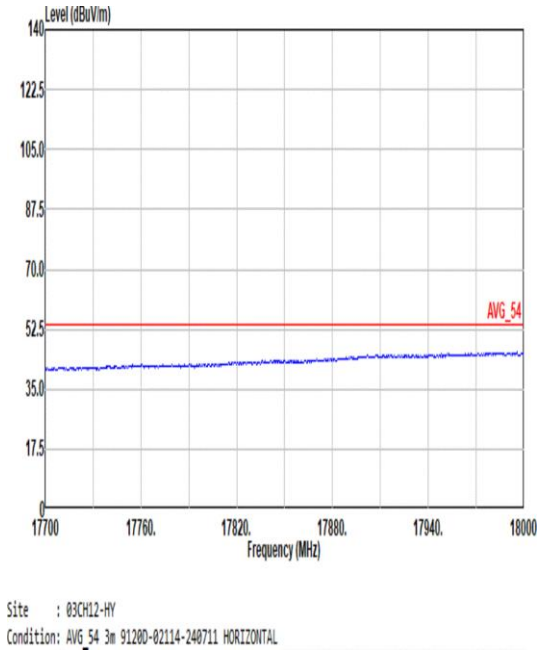
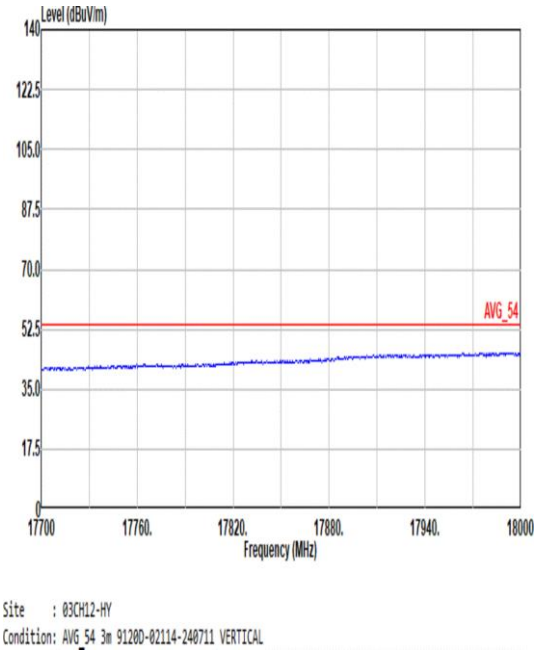
Mode	8	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 43.25 74.00 -30.75 66.48 32.86 10.46 66.99 0.44 -- -- PEAK 2 7320.00 50.41 74.00 -23.59 65.83 37.08 13.20 66.04 0.34 100 171 Peak 3 7320.00 42.40 54.00 -11.60 57.82 37.08 13.20 66.04 0.34 100 171 Average	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 41.89 74.00 -32.11 65.12 32.86 10.46 66.99 0.44 -- -- PEAK 2 7320.00 46.97 74.00 -27.03 62.39 37.08 13.20 66.04 0.34 -- -- PEAK

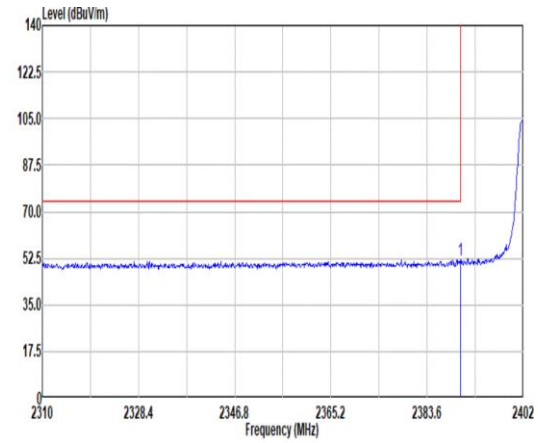
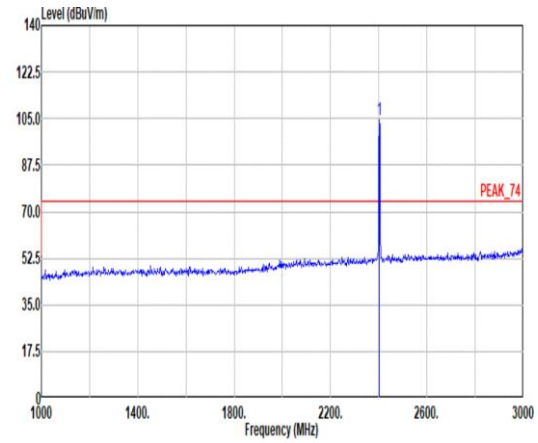
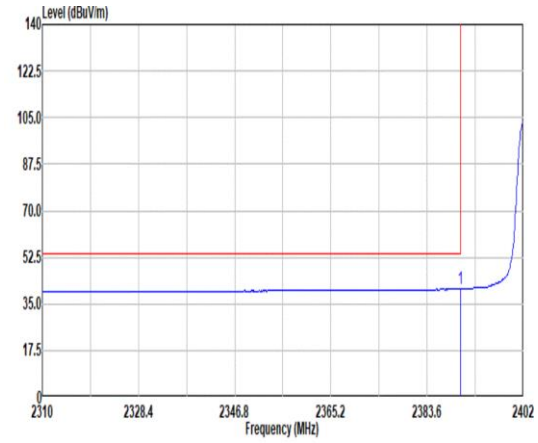
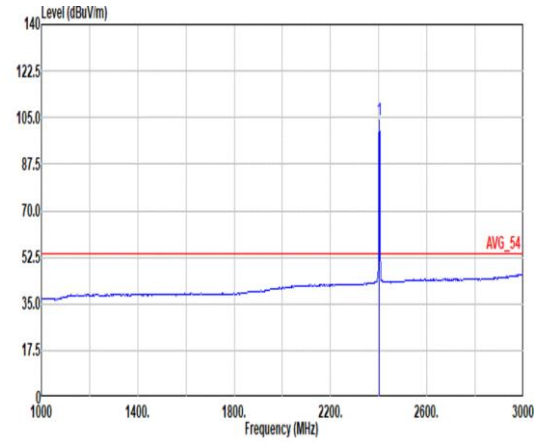
Mode	8	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

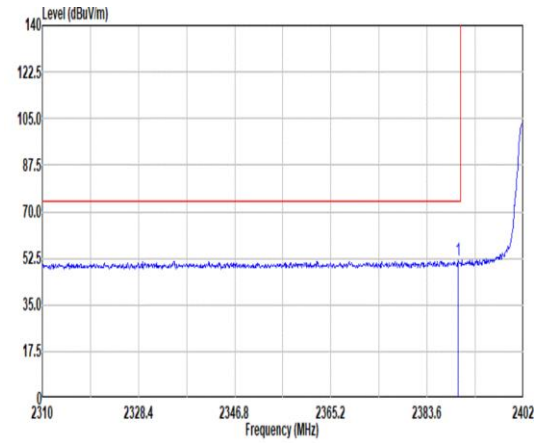
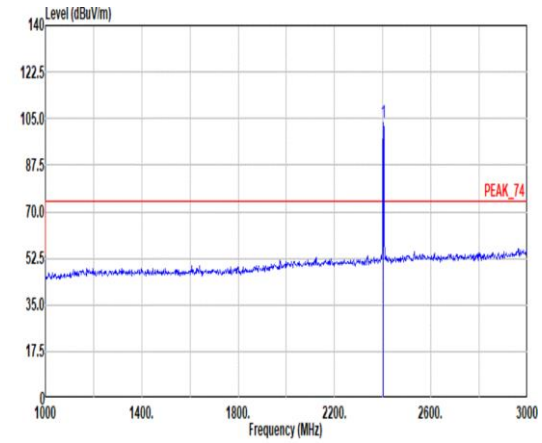
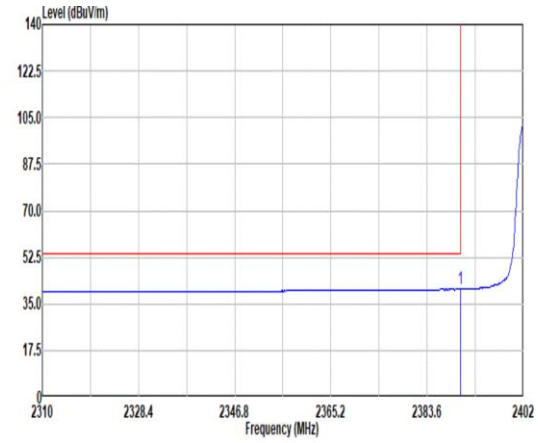
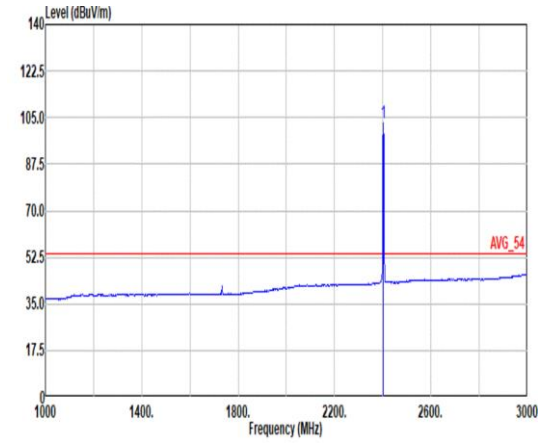
Mode	9	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2497.18 52.95 74.00 -21.05 42.88 28.07 6.77 34.80 10.03 100 161 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 96.81 ------ ------ 86.94 27.90 6.74 34.80 10.03 100 161 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 41.98 54.00 -12.02 32.06 27.94 6.75 34.80 10.03 100 161 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 96.14 ------ ------ 86.27 27.90 6.74 34.80 10.03 100 161 AVERAGE

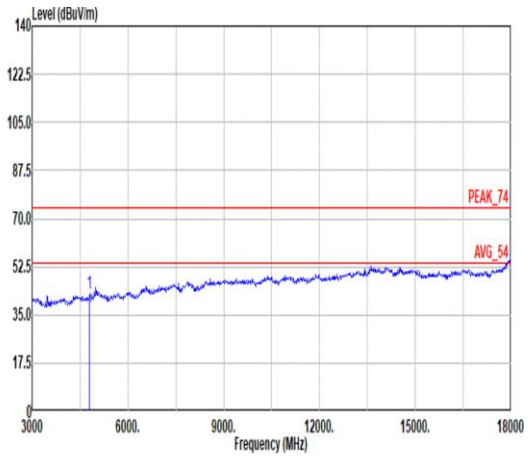
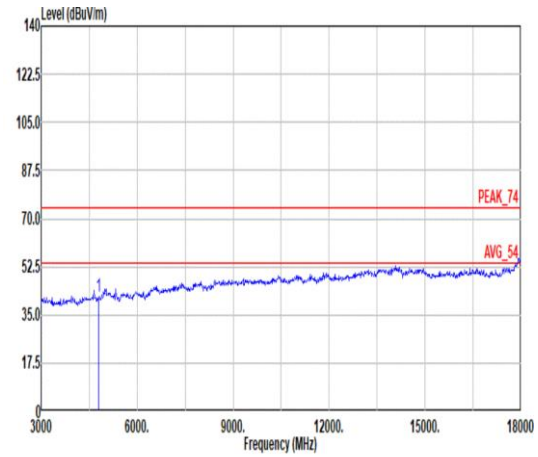
Mode	9	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.60 56.25 74.00 -17.75 46.33 27.94 6.75 34.80 10.03 390 136 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 104.01 ------ ------ 94.14 27.90 6.74 34.80 10.03 390 136 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 45.14 54.00 -8.86 35.22 27.94 6.75 34.80 10.03 390 136 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 103.31 ------ ------ 93.44 27.90 6.74 34.80 10.03 390 136 AVERAGE

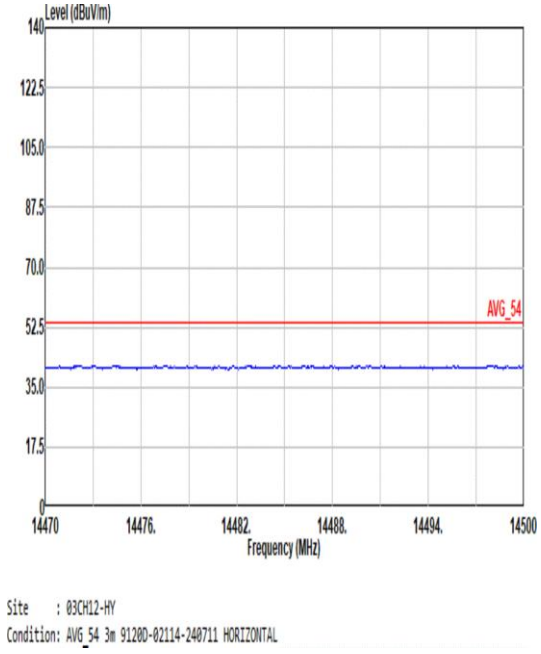
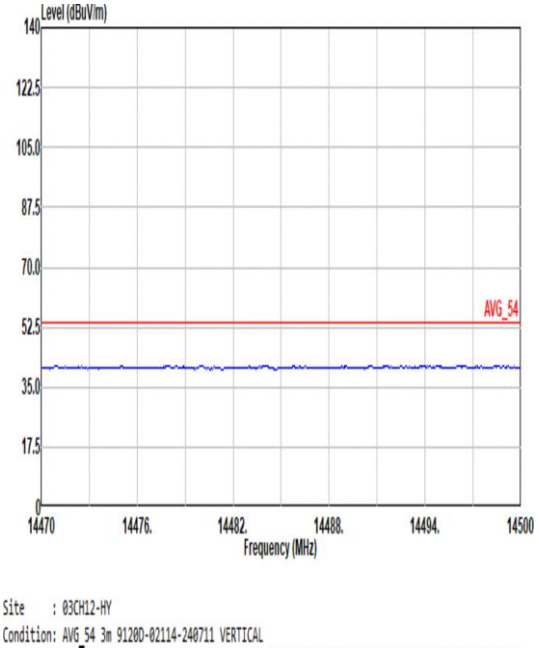
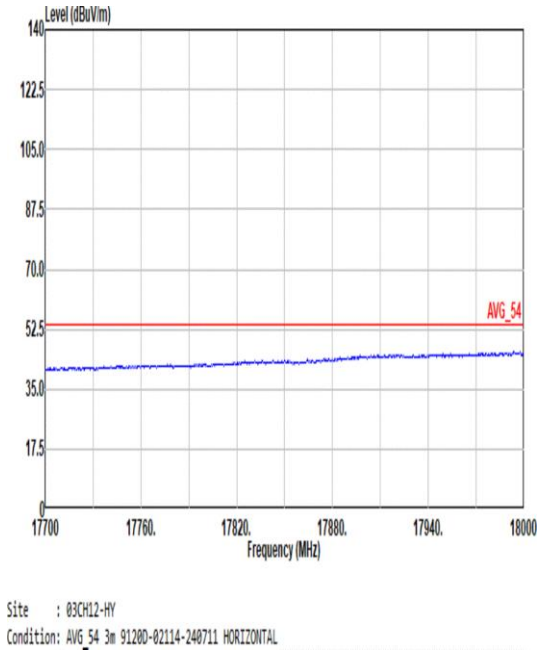
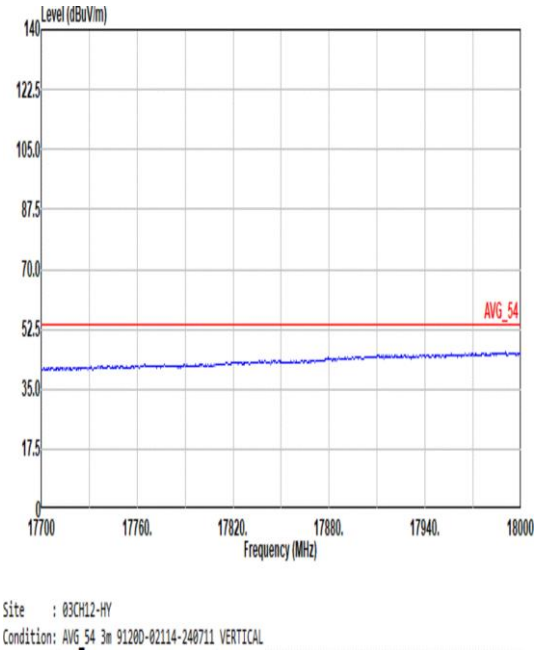
Mode	9	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 42.78 74.00 -31.22 65.54 33.32 10.36 66.90 0.46 -- -- PEAK 2 7440.00 51.42 74.00 -22.58 67.17 36.68 13.37 66.14 0.34 100 170 PEAK 3 7440.00 43.46 54.00 -10.54 59.21 36.68 13.37 66.14 0.34 100 170 Average	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 43.83 74.00 -30.17 66.59 33.32 10.36 66.90 0.46 -- -- PEAK 2 7440.00 46.51 74.00 -27.49 62.26 36.68 13.37 66.14 0.34 -- -- PEAK

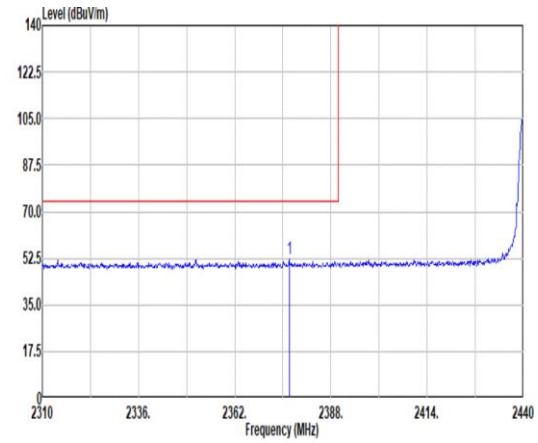
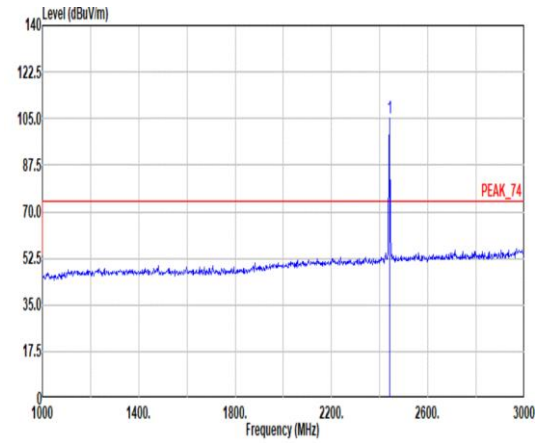
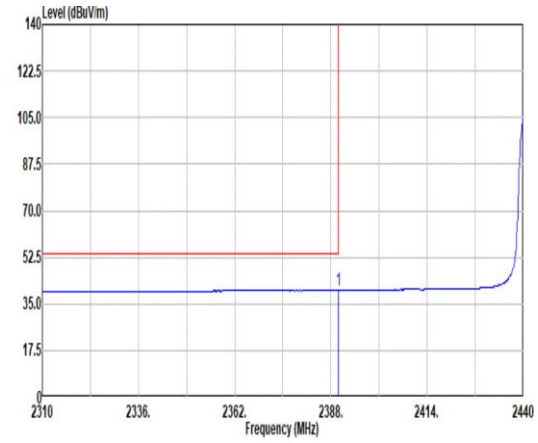
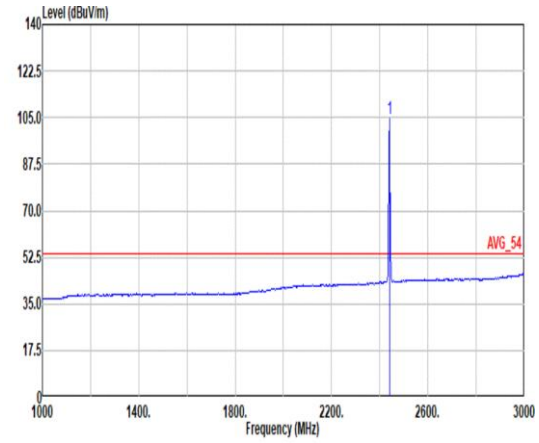
Mode	9	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

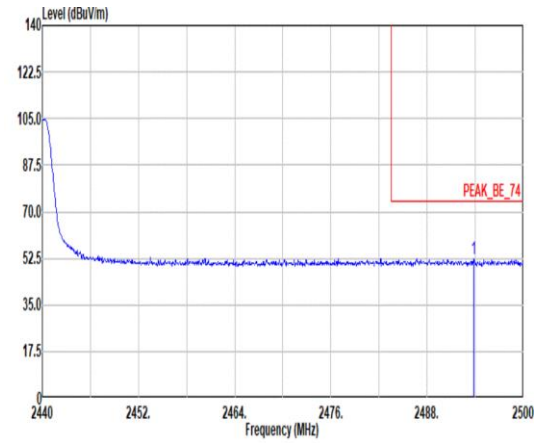
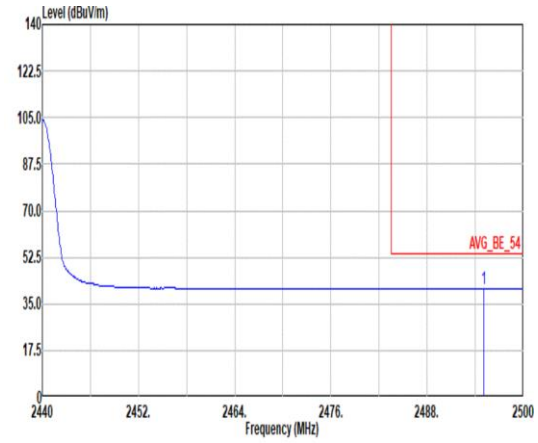
Mode	10	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 51.70 74.00 -22.30 42.36 27.50 6.61 34.80 10.03 103 224 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 104.52 ------ ------ 95.07 27.60 6.62 34.80 10.03 103 224 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 40.61 54.00 -13.39 31.27 27.50 6.61 34.80 10.03 103 224 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 104.00 ------ ------ 94.55 27.60 6.62 34.80 10.03 103 224 AVERAGE

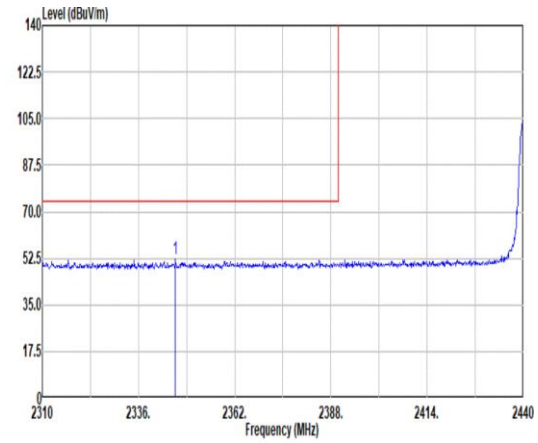
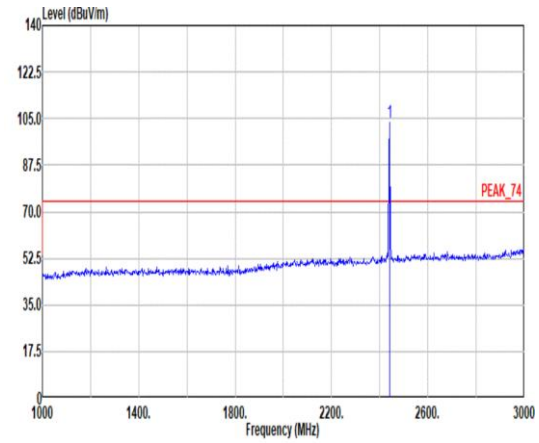
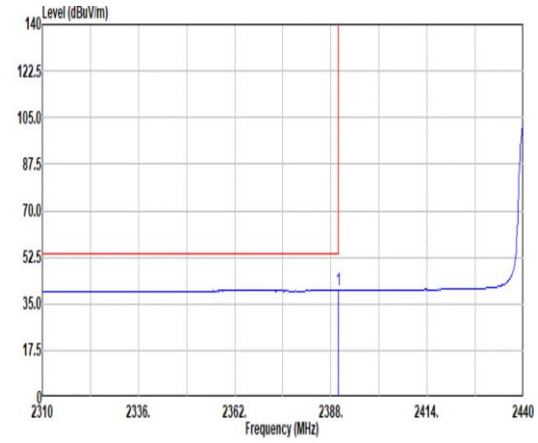
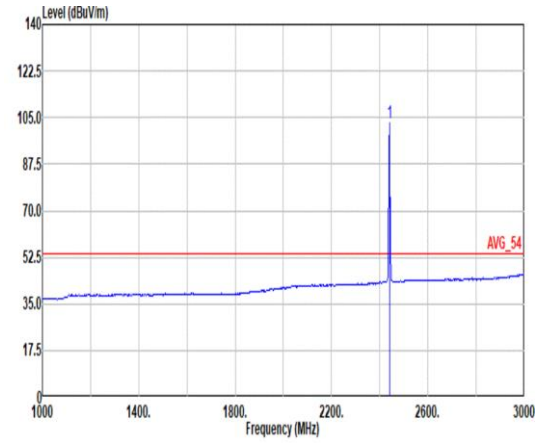
Mode	10	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.49 51.65 74.00 -22.35 42.32 27.49 6.61 34.80 10.03 392 272 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 103.39 ------ ------ 93.94 27.60 6.62 34.80 10.03 392 272 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 40.54 54.00 -13.46 31.20 27.50 6.61 34.80 10.03 392 272 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 102.83 ------ ------ 93.38 27.60 6.62 34.80 10.03 392 272 AVERAGE

Mode	10	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 42.56 74.00 -31.44 66.14 32.52 10.56 67.08 0.42 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 41.80 74.00 -32.20 65.38 32.52 10.56 67.08 0.42 -- -- PEAK

Mode	10	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	11	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2376.69 52.07 74.00 -21.93 42.92 27.33 6.59 34.80 10.03 101 222 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 105.10 ------ ------ 95.49 27.70 6.68 34.80 10.03 101 222 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 40.17 54.00 -13.83 30.83 27.50 6.61 34.80 10.03 101 222 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 104.55 ------ ------ 94.94 27.70 6.68 34.80 10.03 101 222 AVERAGE

Mode	11	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2493.82 52.11 74.00 -21.89 42.08 28.04 6.76 34.80 10.03 101 222 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2495.02 40.90 54.00 -13.10 30.86 28.05 6.76 34.80 10.03 101 222 AVERAGE	Blank

Mode	11	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2346.01 52.37 74.00 -21.63 43.28 27.30 6.55 34.79 10.03 381 257 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 103.38 ------ ------ 93.77 27.70 6.68 34.80 10.03 381 257 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 40.10 54.00 -13.90 30.76 27.50 6.61 34.80 10.03 381 257 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 102.79 ------ ------ 93.18 27.70 6.68 34.80 10.03 381 257 AVERAGE

Mode	11	
	Band Edge - R	
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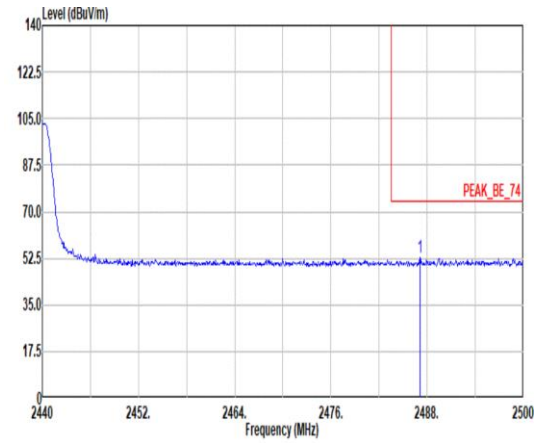
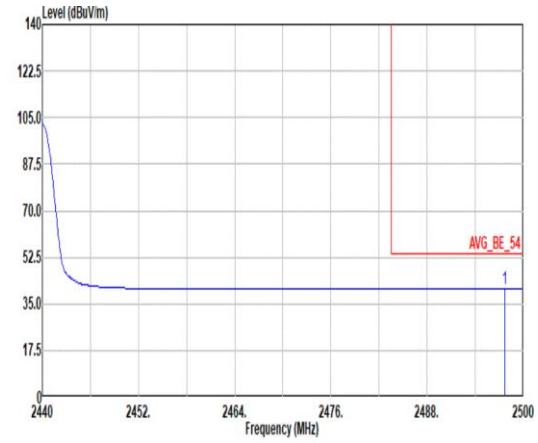
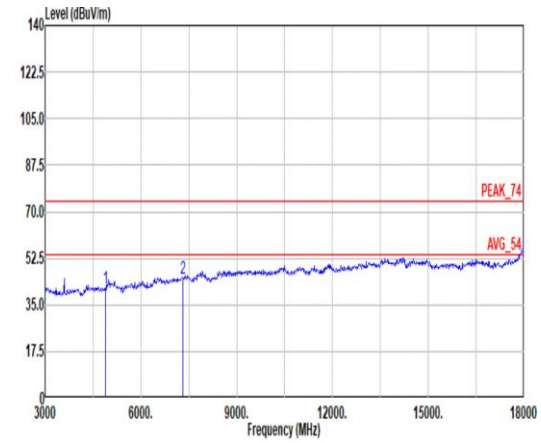
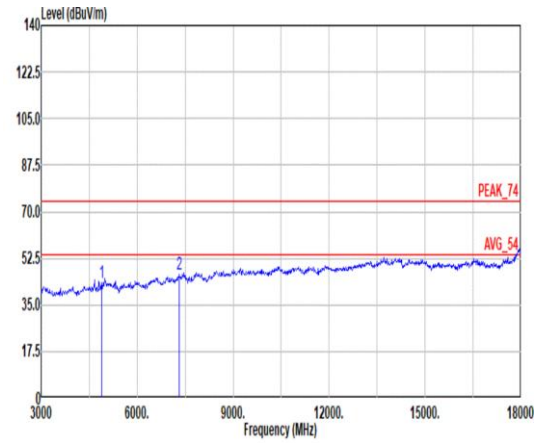
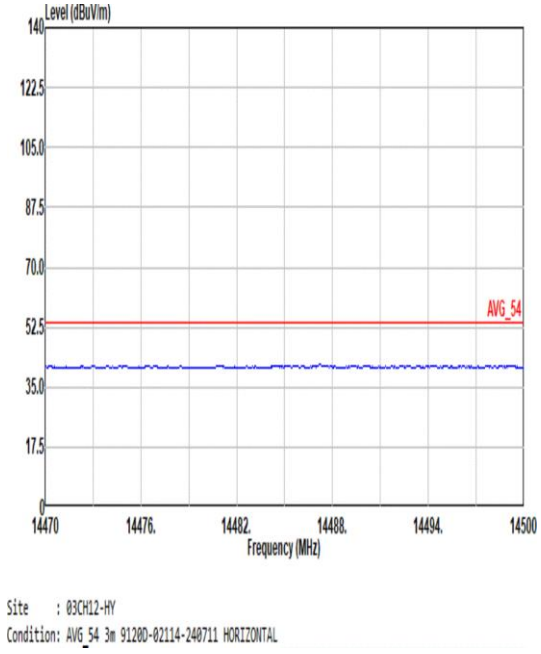
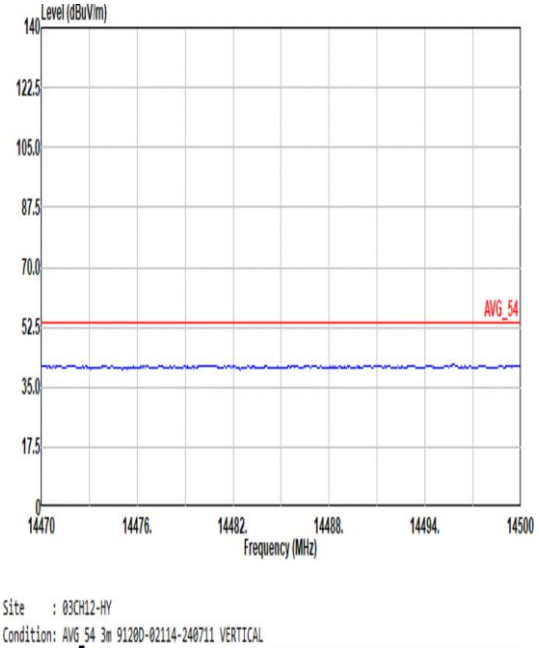
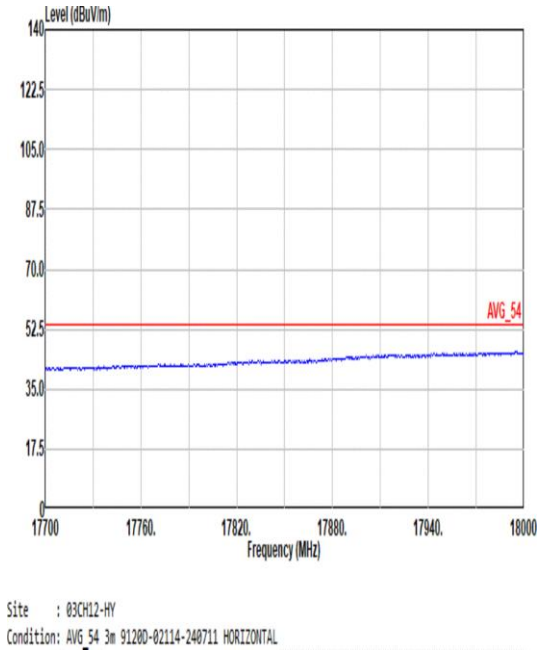
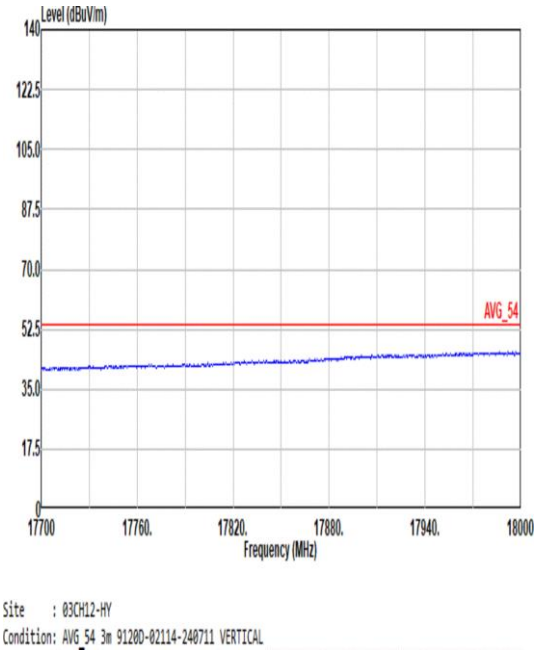
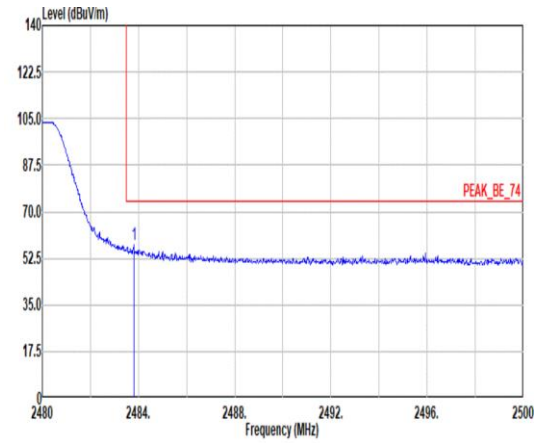
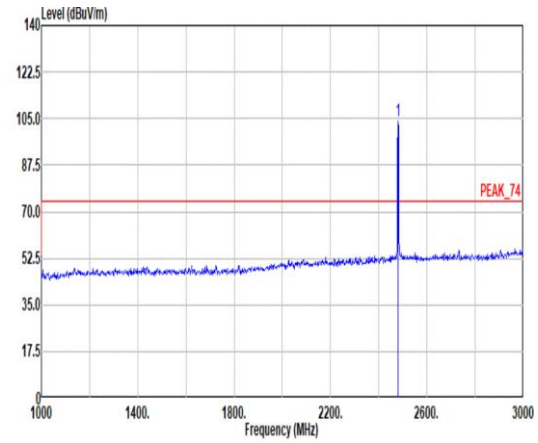
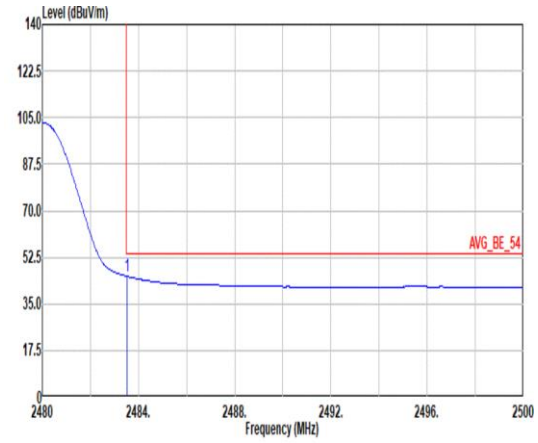
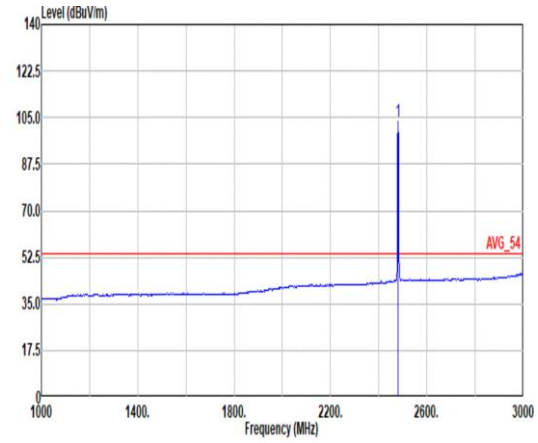
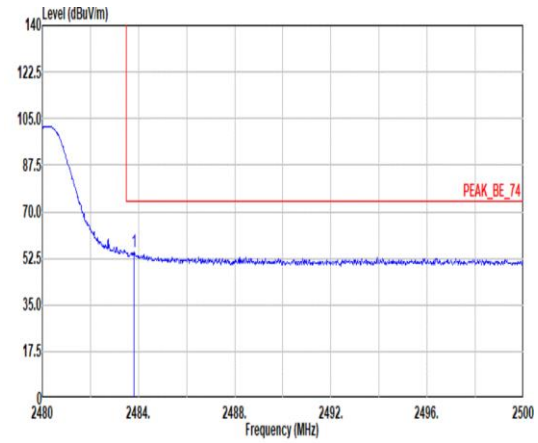
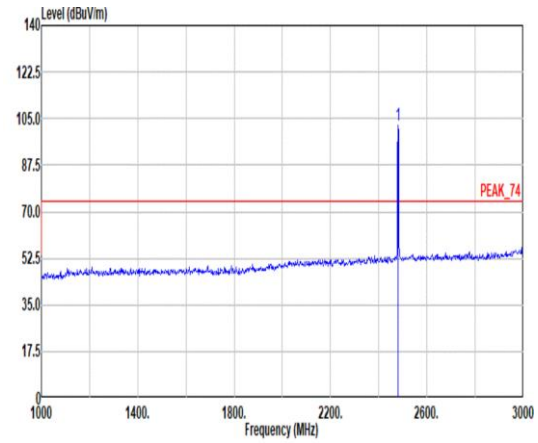
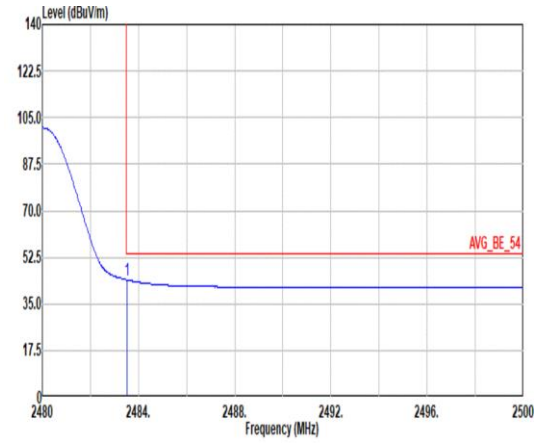
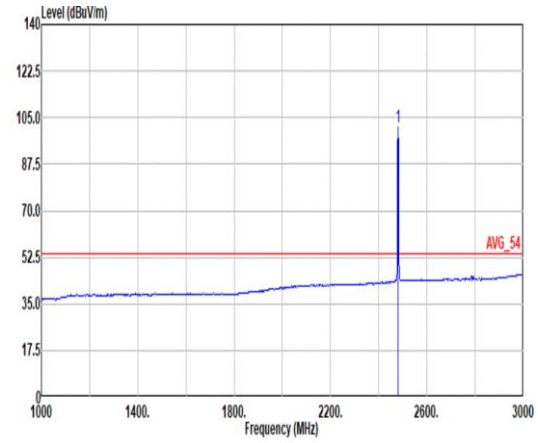
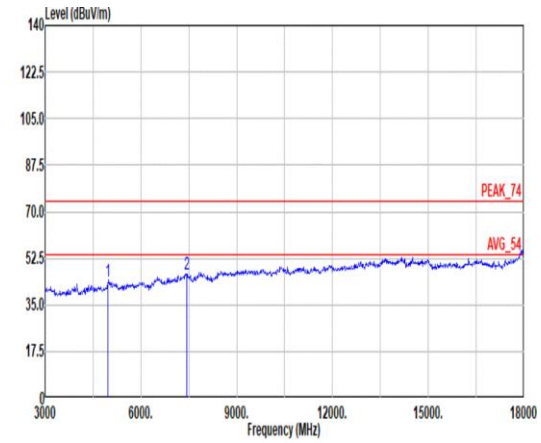
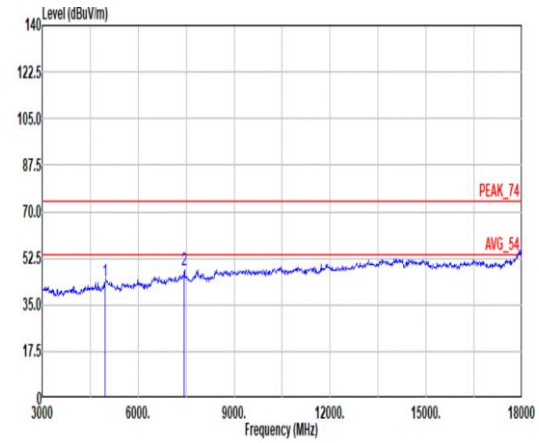
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2487.10 52.77 74.00 -21.23 42.82 27.97 6.75 34.80 10.03 381 257 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2497.72 40.80 54.00 -13.20 30.72 28.08 6.77 34.80 10.03 381 257 AVERAGE	Blank

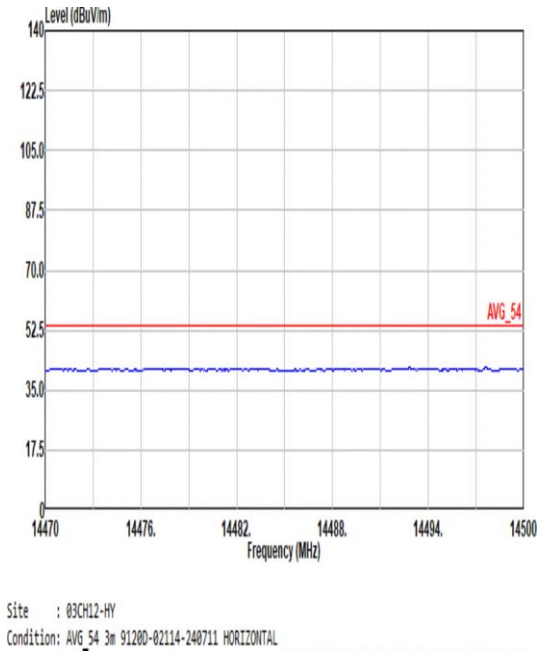
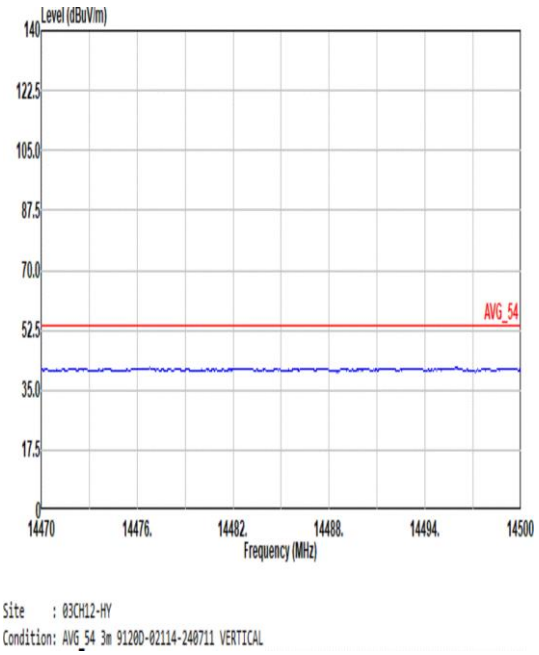
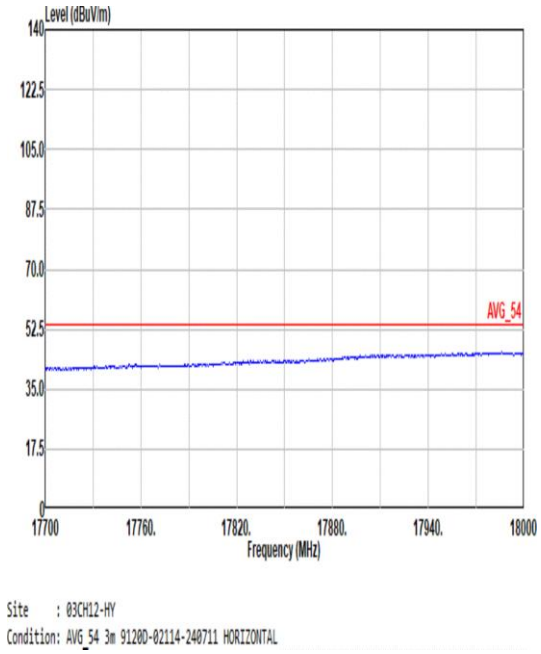
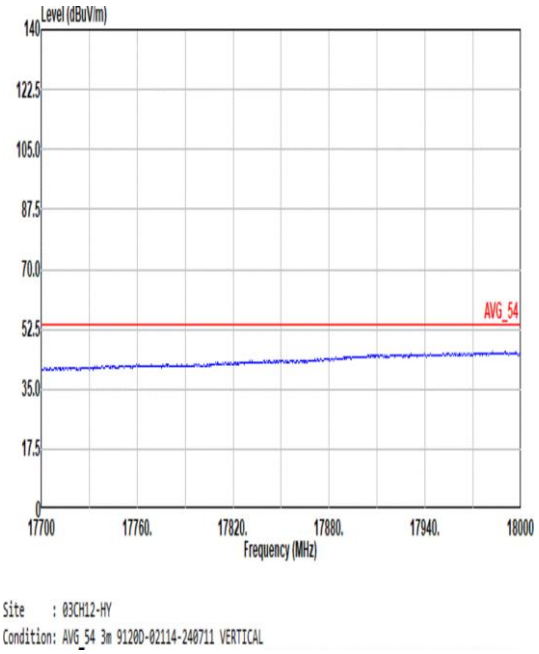
Mode	11	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 41.26 74.00 -32.74 64.49 32.86 10.46 66.99 0.44 -- -- PEAK 2 7320.00 44.94 74.00 -29.06 60.36 37.08 13.20 66.04 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 43.11 74.00 -30.89 66.34 32.86 10.46 66.99 0.44 -- -- PEAK 2 7320.00 46.31 74.00 -27.69 61.73 37.08 13.20 66.04 0.34 -- -- PEAK

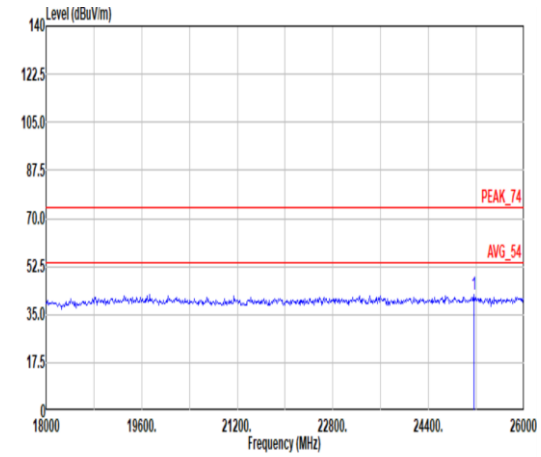
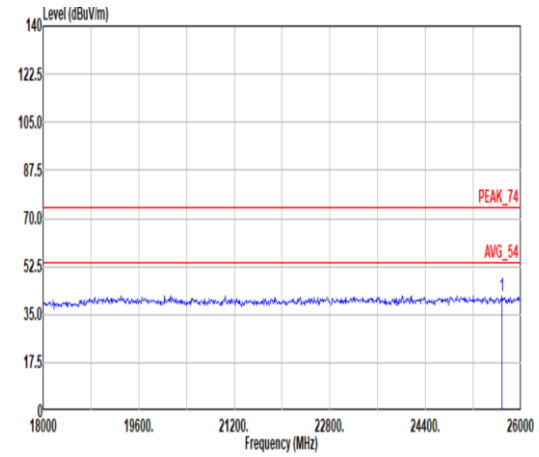
Mode	11	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

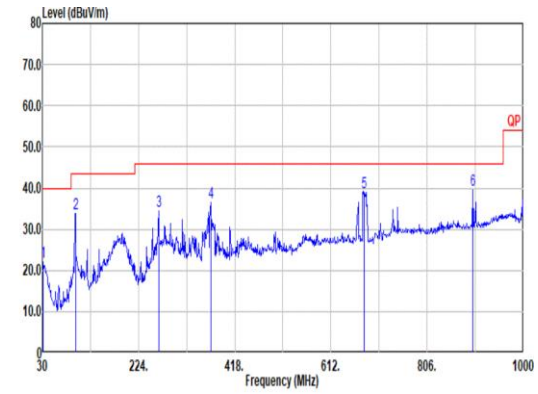
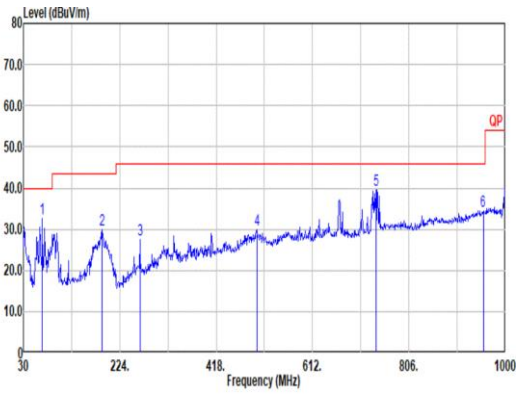
Mode	12	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.80 57.67 74.00 -16.33 47.75 27.94 6.75 34.80 10.03 100 223 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 104.09 ------ ------ 94.22 27.90 6.74 34.80 10.03 100 223 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 45.43 54.00 -8.57 35.51 27.94 6.75 34.80 10.03 100 223 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 103.46 ------ ------ 93.59 27.90 6.74 34.80 10.03 100 223 AVERAGE

Mode	12	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.00 55.03 74.00 -18.97 45.11 27.94 6.75 34.80 10.03 361 257 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 102.24 ------ ------ 92.37 27.90 6.74 34.80 10.03 361 257 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 44.04 54.00 -9.96 34.12 27.94 6.75 34.80 10.03 361 257 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 101.66 ------ ------ 91.79 27.90 6.74 34.80 10.03 361 257 AVERAGE

Mode	12	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 43.99 74.00 -30.01 66.75 33.32 10.36 66.90 0.46 -- -- PEAK 2 7440.00 46.42 74.00 -27.58 62.17 36.68 13.37 66.14 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 43.68 74.00 -30.32 66.44 33.32 10.36 66.90 0.46 -- -- PEAK 2 7440.00 47.90 74.00 -26.10 63.65 36.68 13.37 66.14 0.34 -- -- PEAK

Mode	12	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	13	
	SHF	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition: PEAK_74 1m SHF_1224_230710 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 25161.00 42.22 74.00 -31.78 50.31 39.50 23.69 61.74 -9.54 -- -- Peak	 Site : 03CH12-HY Condition: PEAK_74 1m SHF_1224_230710 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 25678.00 41.79 74.00 -32.21 49.83 39.01 24.25 61.76 -9.54 -- -- Peak

Mode	14	
	LF	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
QP/ Peak	 Site : 03CH12-HY Condition: QP 3m Bilog_37059_20241127 HORIZONTAL	 Site : 03CH12-HY Condition: QP 3m Bilog_37059_20241127 VERTICAL

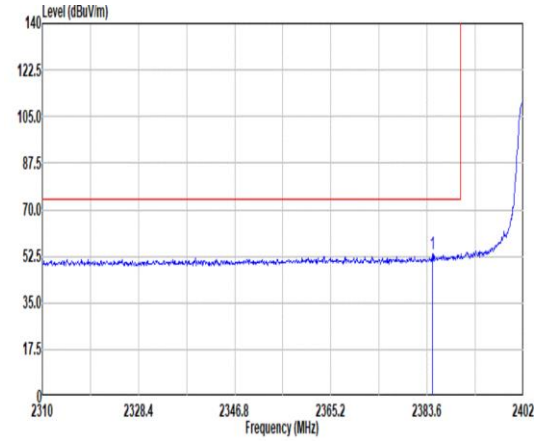
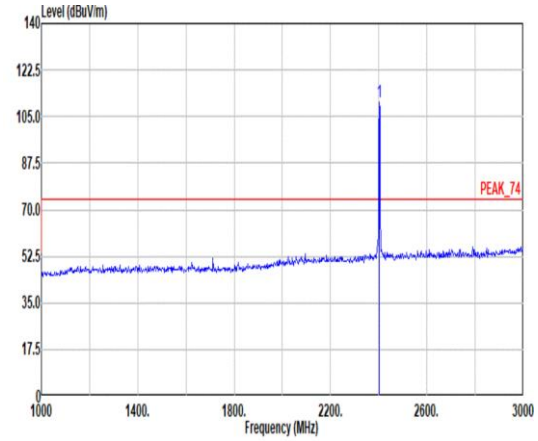
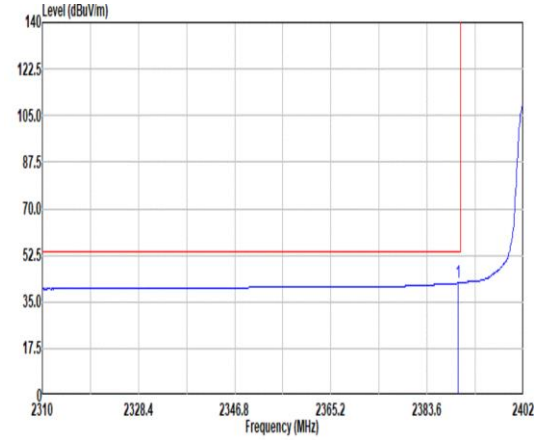
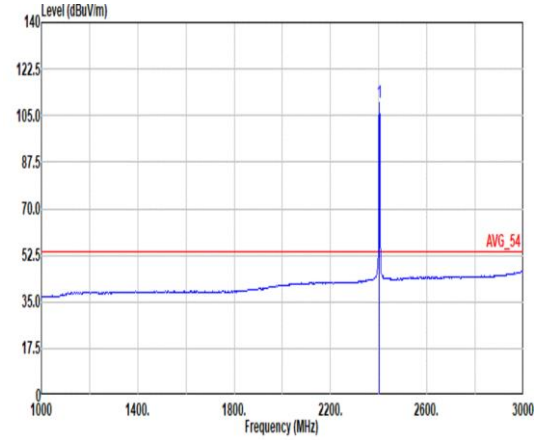
Site : 03CH12-HY
Condition: QP 3m Bilog_37059_20241127 HORIZONTAL

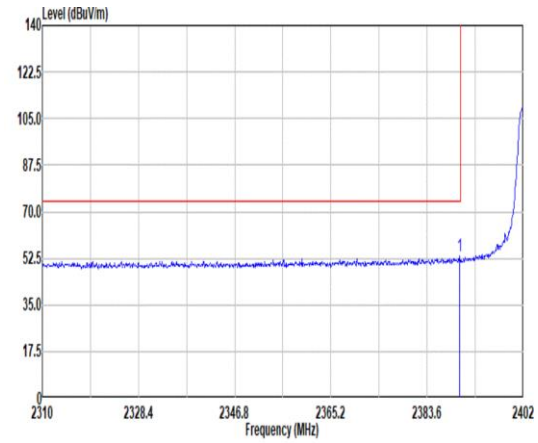
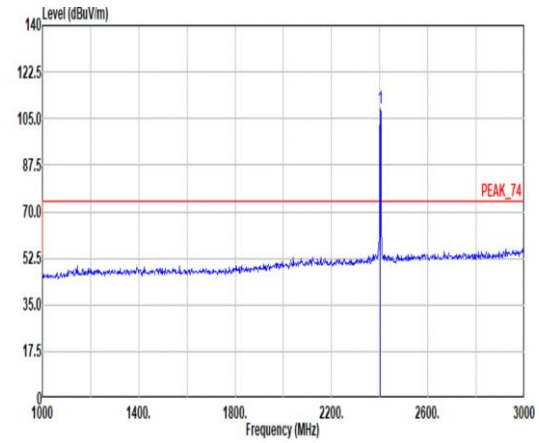
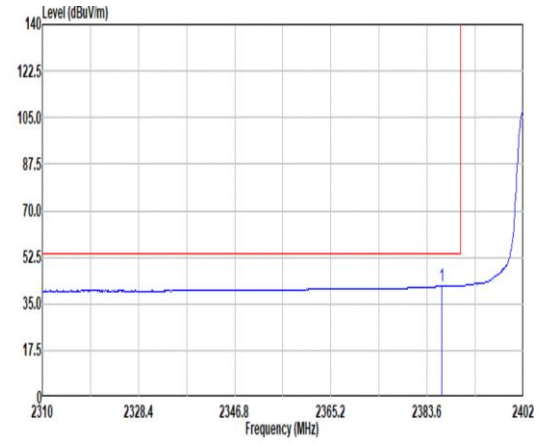
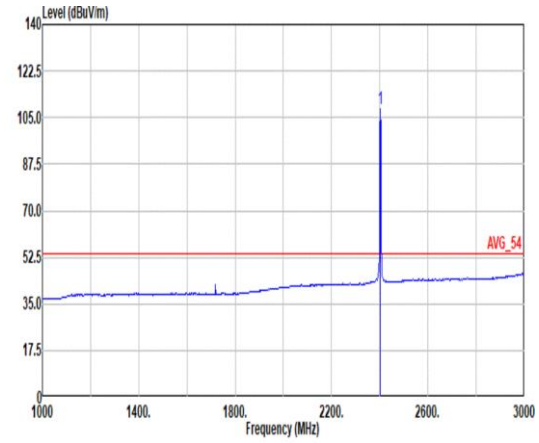
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.97	21.92	40.00	-18.08	26.67	24.21	0.76	29.77	0.05	--	--	Peak
2	96.93	33.80	43.50	-9.70	46.45	15.85	1.34	29.91	0.07	--	--	Peak
3	264.74	34.30	46.00	-11.70	41.58	19.99	2.21	29.63	0.15	--	--	Peak
4	369.50	36.66	46.00	-9.34	42.36	21.04	2.60	29.49	0.15	--	--	Peak
5	678.93	39.02	46.00	-6.98	37.49	26.73	3.56	29.04	0.28	--	--	Peak
6	898.15	39.65	46.00	-6.35	34.58	29.20	4.05	28.52	0.34	--	--	Peak

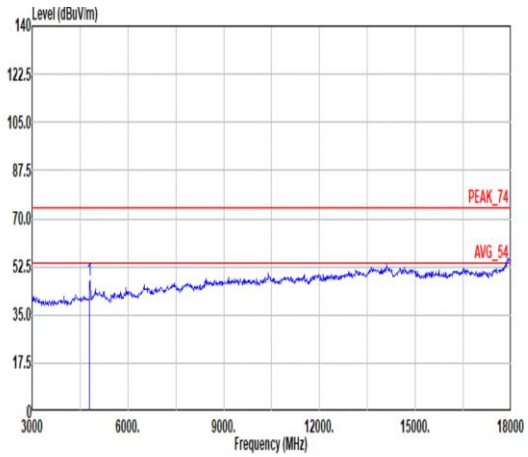
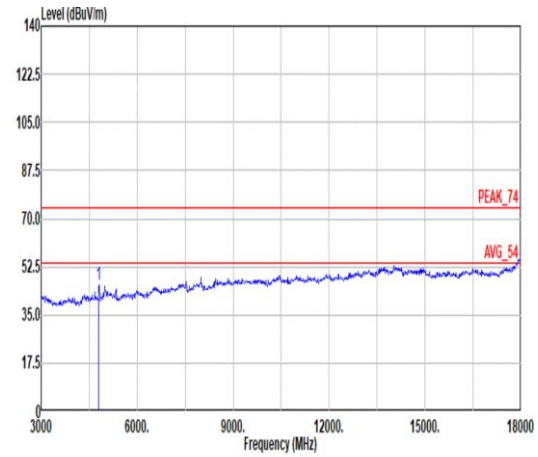
Site : 03CH12-HY
Condition: QP 3m Bilog_37059_20241127 VERTICAL

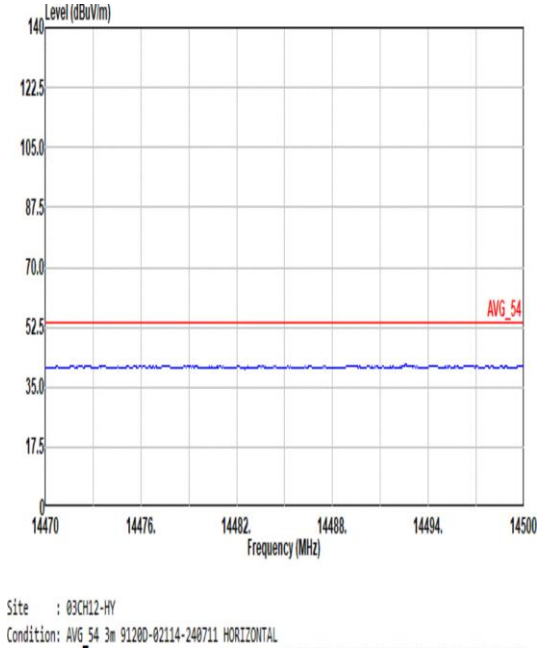
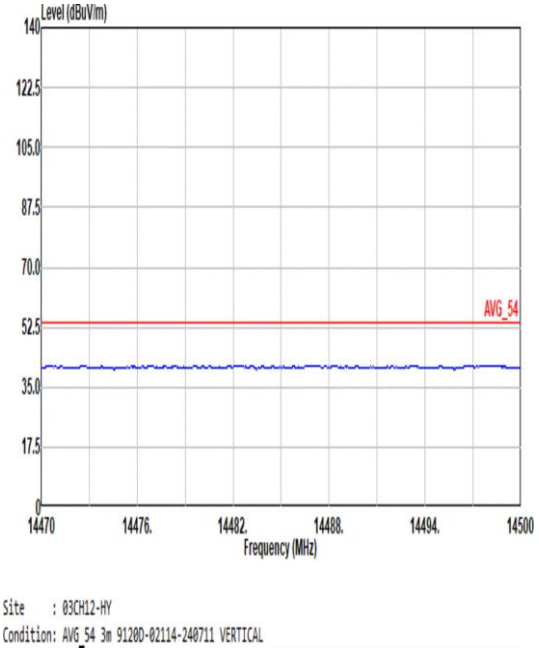
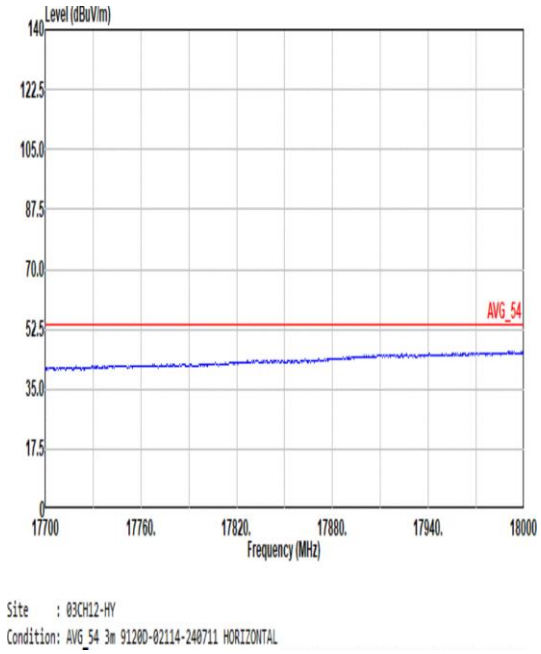
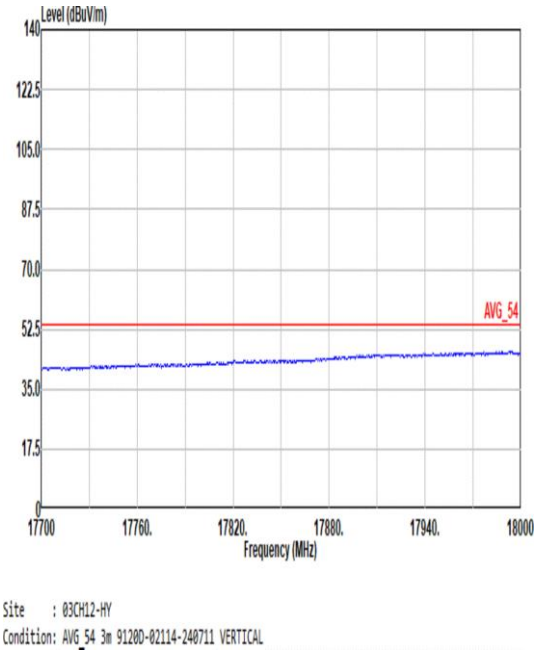
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	67.83	32.74	40.00	-7.26	49.00	12.39	1.15	29.89	0.09	--	--	Peak
2	188.11	29.81	43.50	-13.69	42.58	15.08	1.85	29.79	0.09	--	--	Peak
3	264.74	27.45	46.00	-18.55	34.73	19.99	2.21	29.63	0.15	--	--	Peak
4	499.48	29.76	46.00	-16.24	31.50	24.12	3.02	29.25	0.37	--	--	Peak
5	740.04	39.40	46.00	-6.60	36.02	28.31	3.69	28.95	0.33	--	--	Peak
6	955.38	34.31	46.00	-11.69	26.87	31.11	4.16	28.29	0.46	--	--	Peak

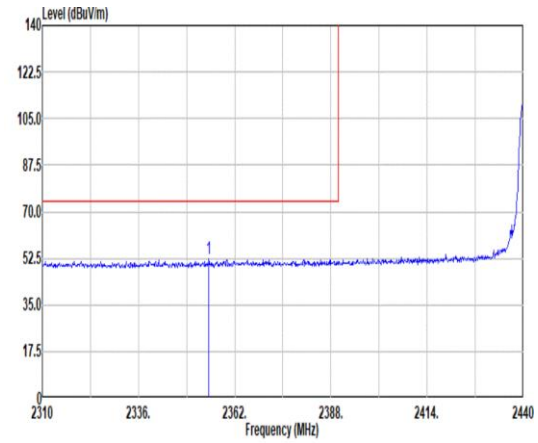
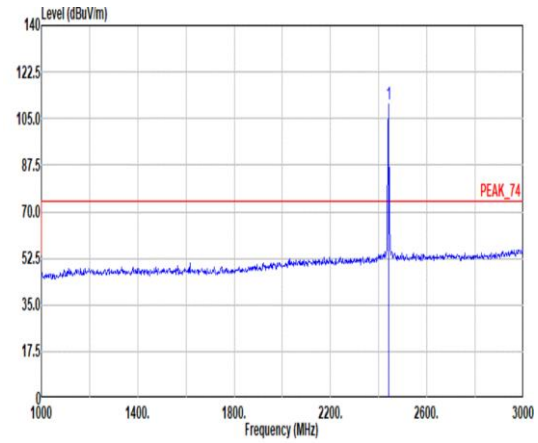
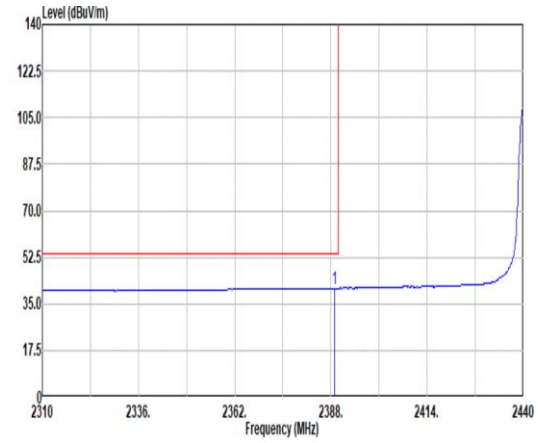
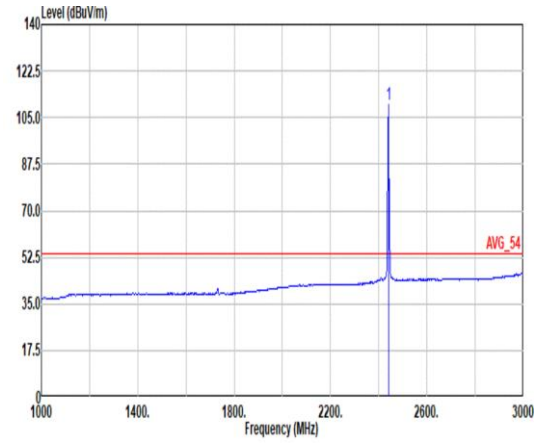
<10dBm>

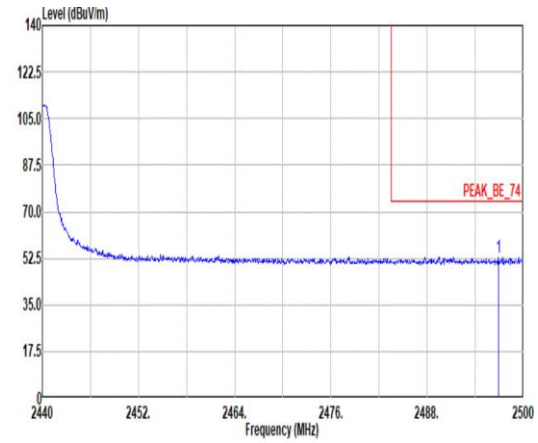
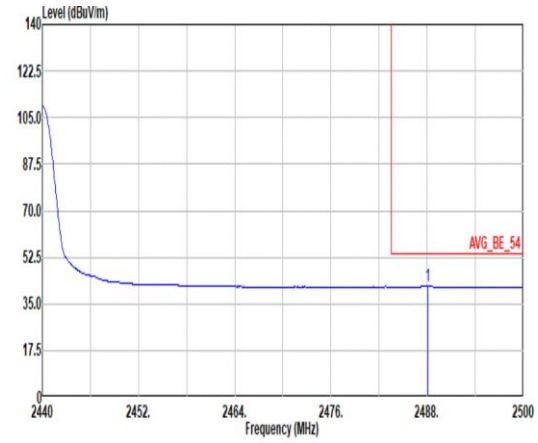
Mode	15	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2384.61 53.18 74.00 -20.82 43.96 27.39 6.60 34.80 10.03 100 230 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 110.21 ------ ------ 100.76 27.60 6.62 34.80 10.03 100 230 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.49 42.11 54.00 -11.89 32.78 27.49 6.61 34.80 10.03 100 230 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 109.67 ------ ------ 100.22 27.60 6.62 34.80 10.03 100 230 AVERAGE

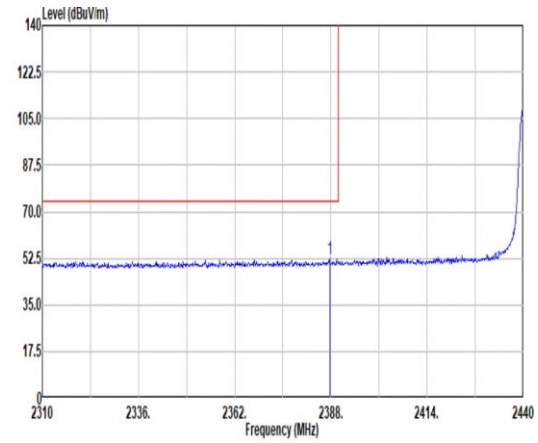
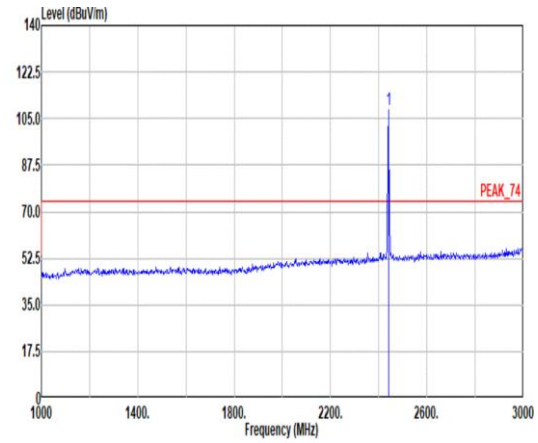
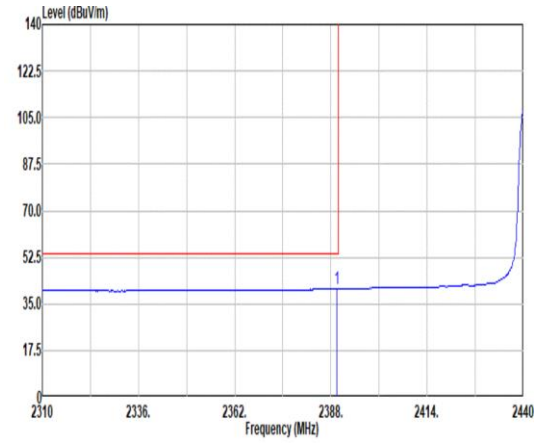
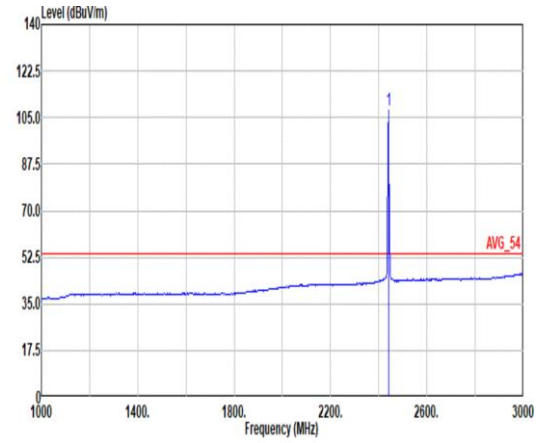
Mode	15	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.86 53.12 74.00 -20.88 43.78 27.50 6.61 34.80 10.03 395 272 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 108.97 ------ ------ 99.52 27.60 6.62 34.80 10.03 395 272 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2386.36 41.84 54.00 -12.16 32.58 27.43 6.60 34.80 10.03 395 272 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 108.36 ------ ------ 98.91 27.60 6.62 34.80 10.03 395 272 AVERAGE

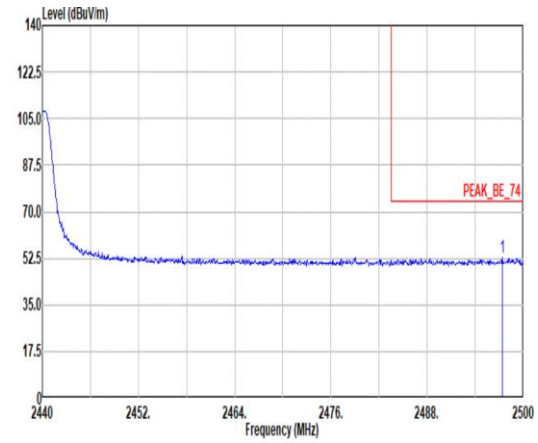
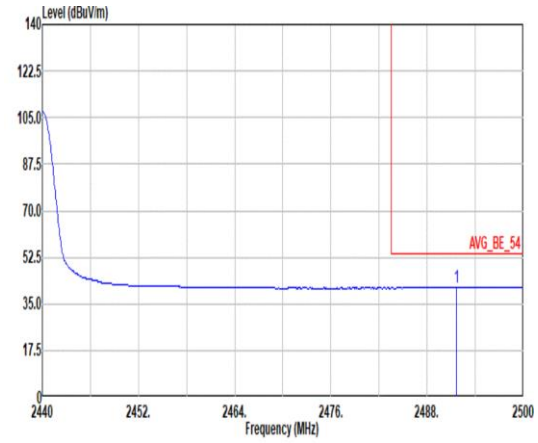
Mode	15	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 47.38 74.00 -26.62 70.96 32.52 10.56 67.08 0.42 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 46.09 74.00 -27.91 69.67 32.52 10.56 67.08 0.42 -- -- PEAK

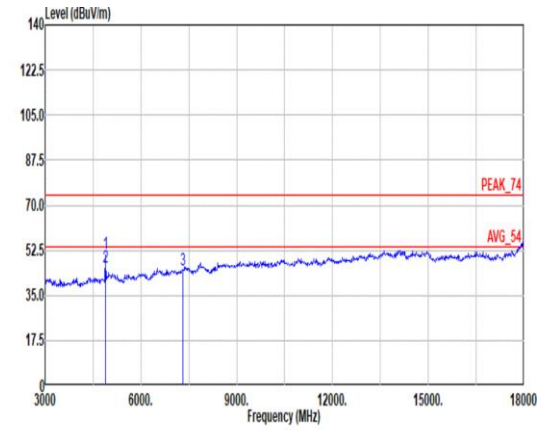
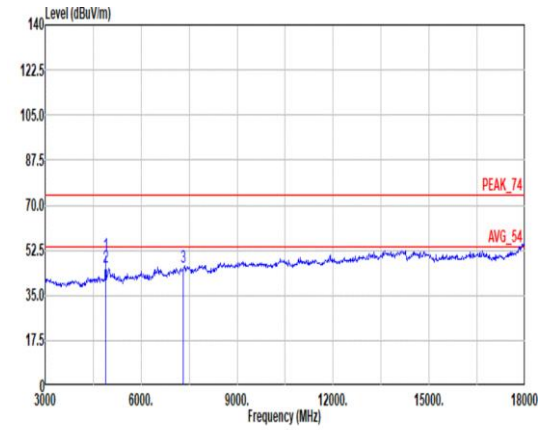
Mode	15	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

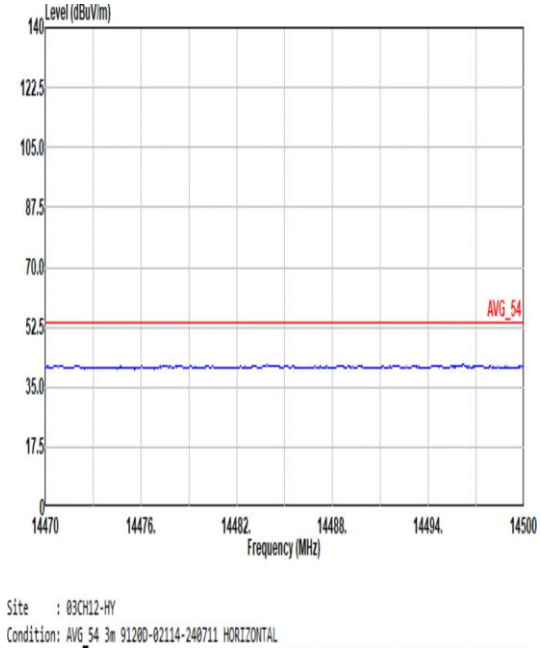
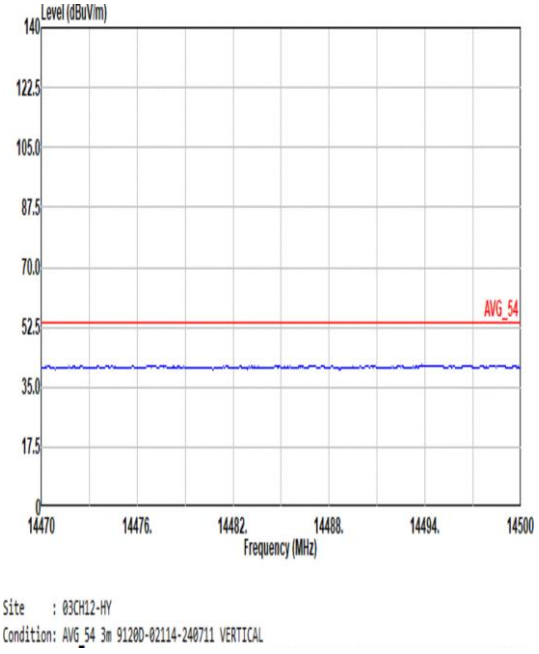
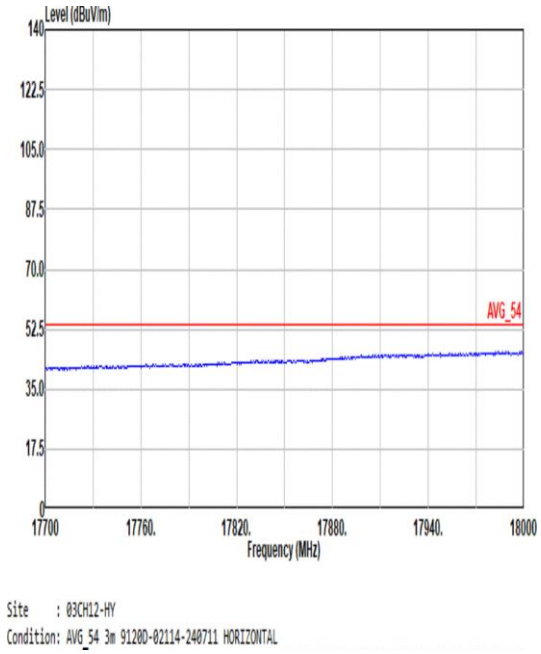
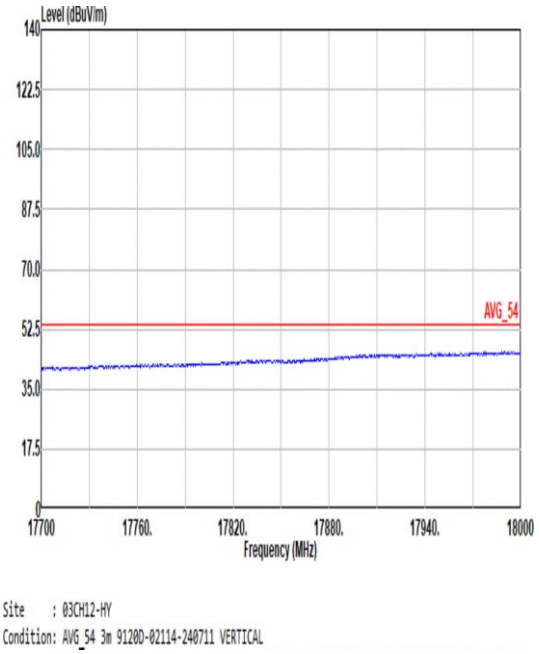
Mode	16	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2354.98 52.39 74.00 -21.61 43.24 27.35 6.56 34.79 10.03 100 231 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 110.39 ------ ------ 100.78 27.70 6.68 34.80 10.03 100 231 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.04 40.87 54.00 -13.13 31.55 27.48 6.61 34.80 10.03 100 231 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 109.82 ------ ------ 100.21 27.70 6.68 34.80 10.03 100 231 AVERAGE

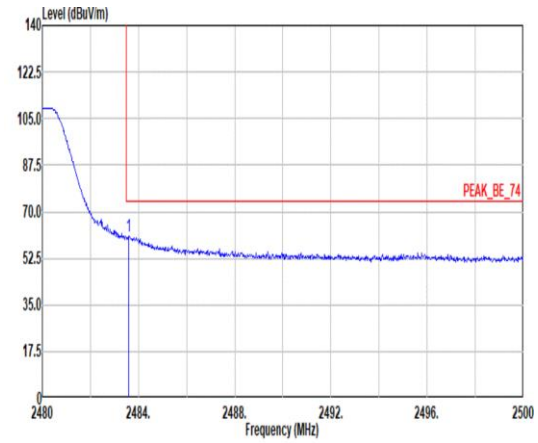
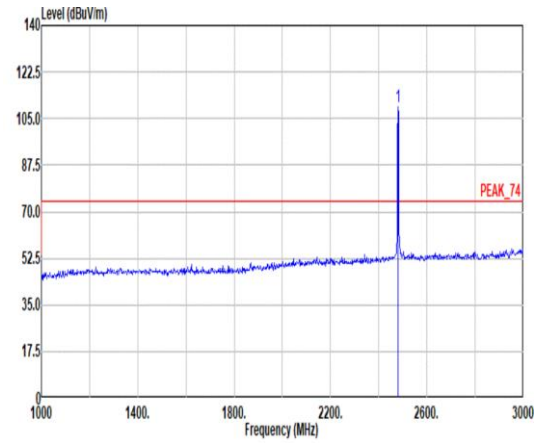
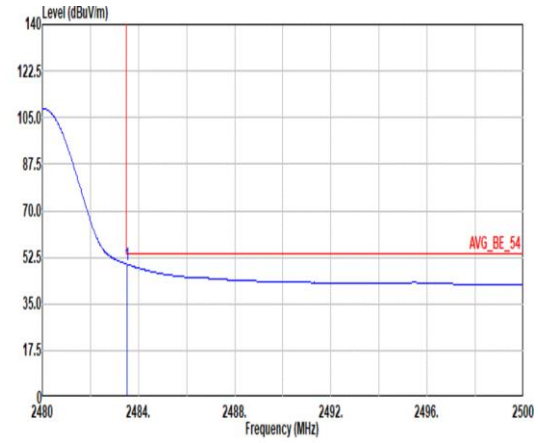
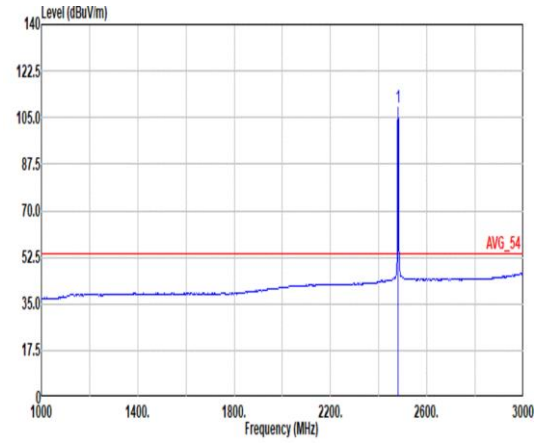
Mode	16	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.94 52.77 74.00 -21.23 42.70 28.07 6.77 34.80 10.03 100 231 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2488.06 41.56 54.00 -12.44 31.60 27.98 6.75 34.80 10.03 100 231 AVERAGE	Blank

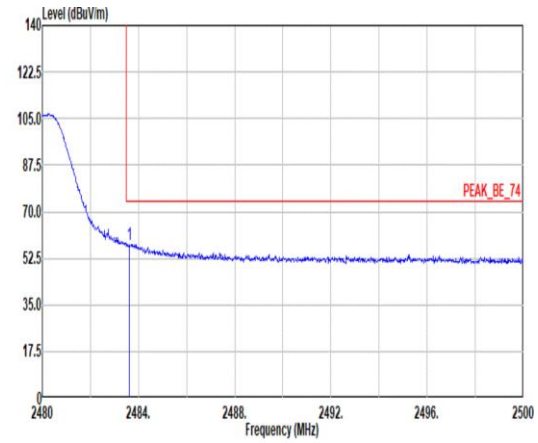
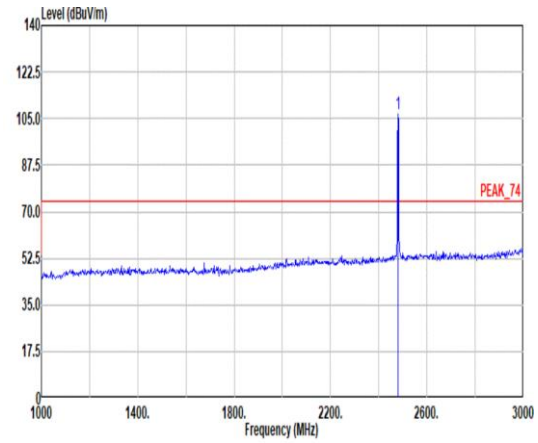
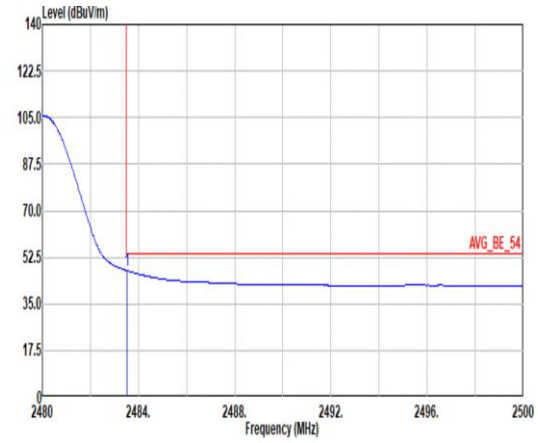
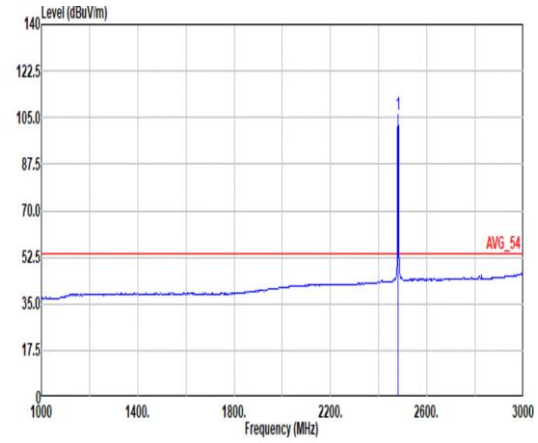
Mode	16	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2387.61 52.32 74.00 -21.68 43.04 27.45 6.60 34.80 10.03 383 271 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 108.29 ------ ------ 98.68 27.70 6.68 34.80 10.03 383 271 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.69 40.67 54.00 -13.33 31.34 27.49 6.61 34.80 10.03 383 271 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 107.72 ------ ------ 98.11 27.70 6.68 34.80 10.03 383 271 AVERAGE

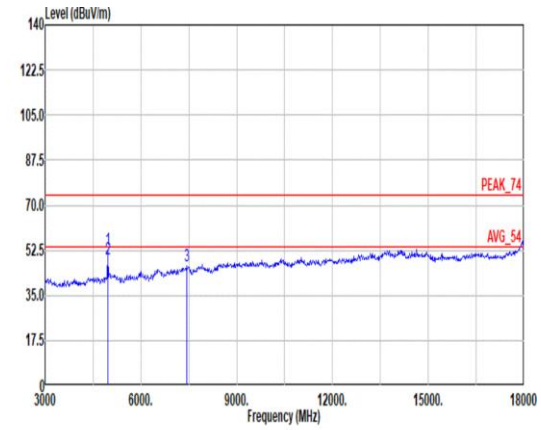
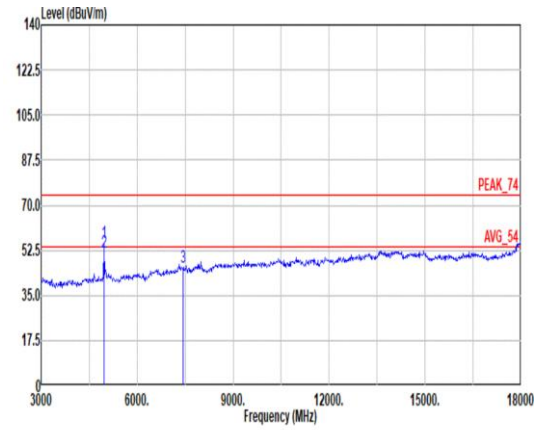
Mode	16	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2497.42 52.73 74.00 -21.27 42.66 28.07 6.77 34.80 10.03 383 271 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2491.66 41.08 54.00 -12.92 31.07 28.02 6.76 34.80 10.03 383 271 AVERAGE	Blank

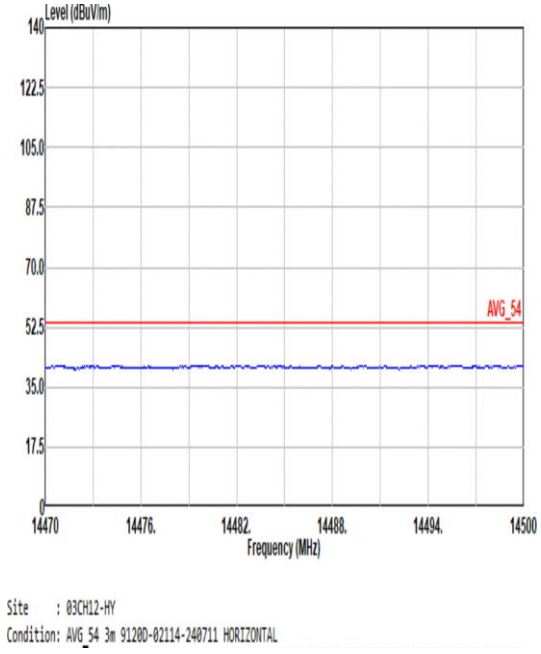
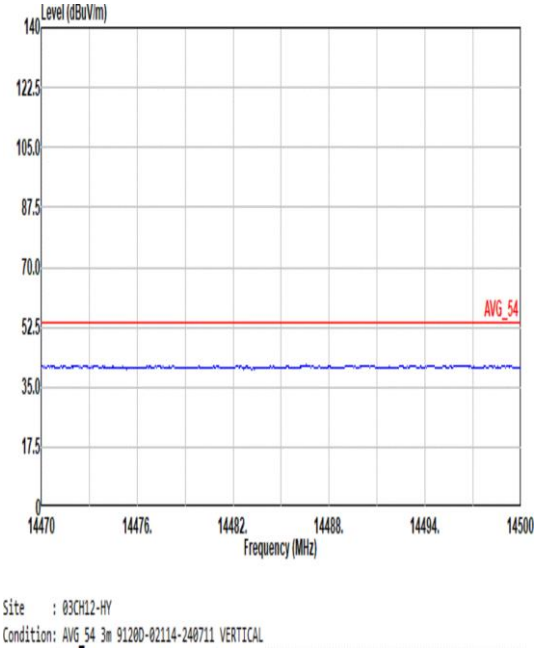
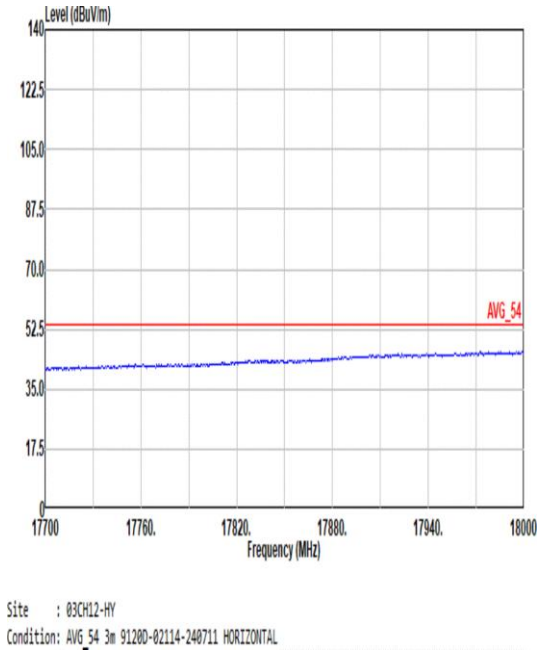
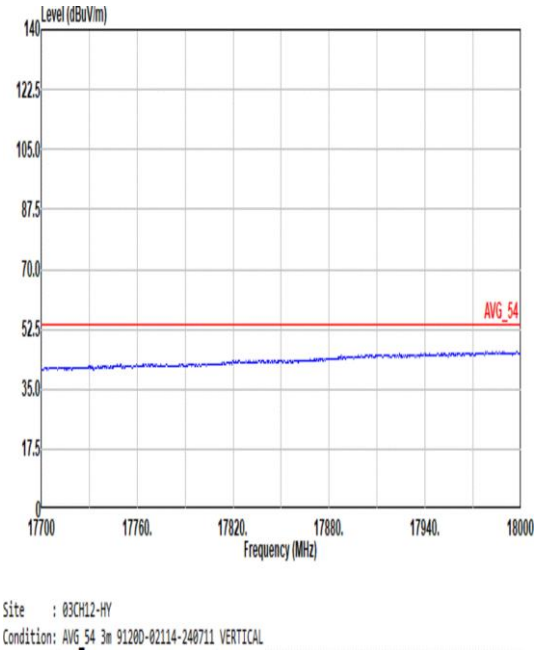
Mode	16	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 51.08 74.00 -22.92 74.31 32.86 10.46 66.99 0.44 131 89 PEAK 2 4880.00 46.10 54.00 -7.90 69.33 32.86 10.46 66.99 0.44 131 89 AVERAGE 3 7320.00 45.13 74.00 -28.87 60.55 37.08 13.20 66.04 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 50.88 74.00 -23.12 74.11 32.86 10.46 66.99 0.44 102 82 PEAK 2 4880.00 46.09 54.00 -7.91 69.32 32.86 10.46 66.99 0.44 102 82 AVERAGE 3 7320.00 45.70 74.00 -28.30 61.12 37.08 13.20 66.04 0.34 -- -- PEAK

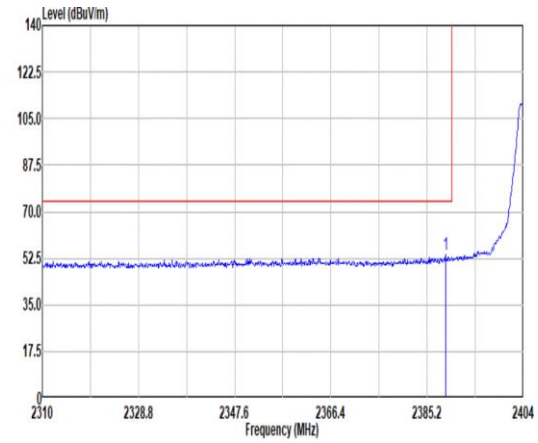
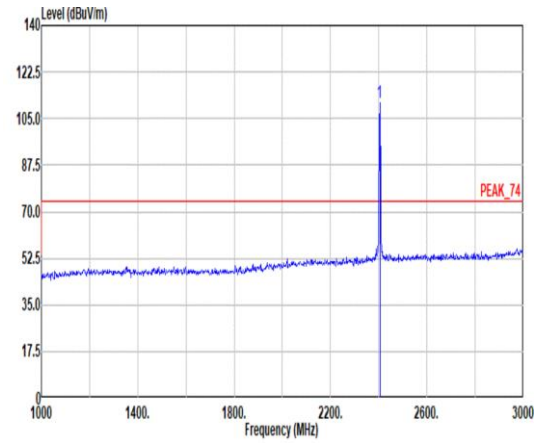
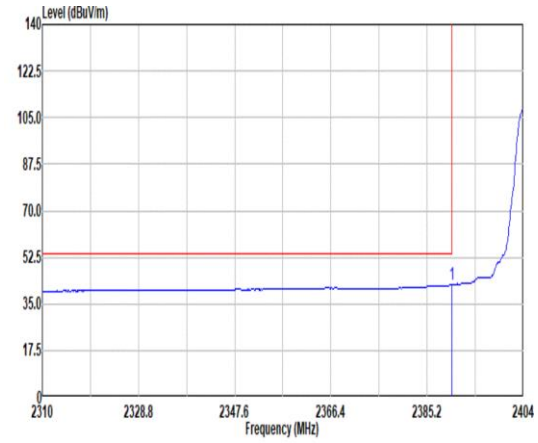
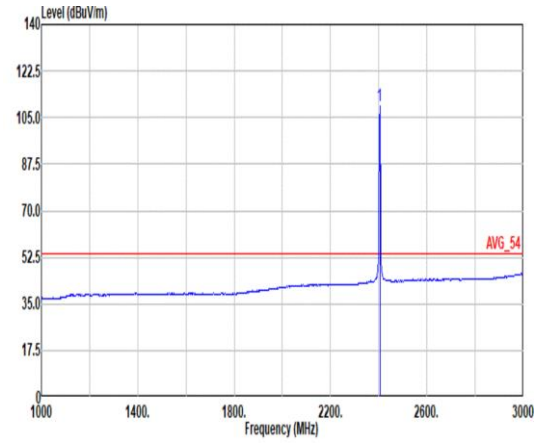
Mode	16	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

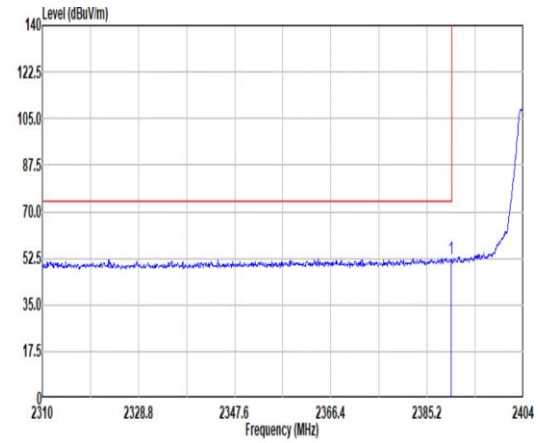
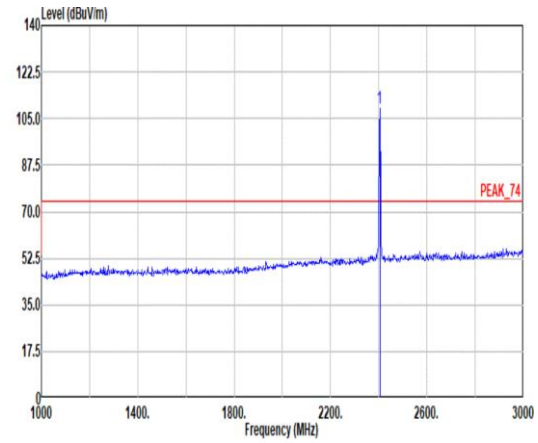
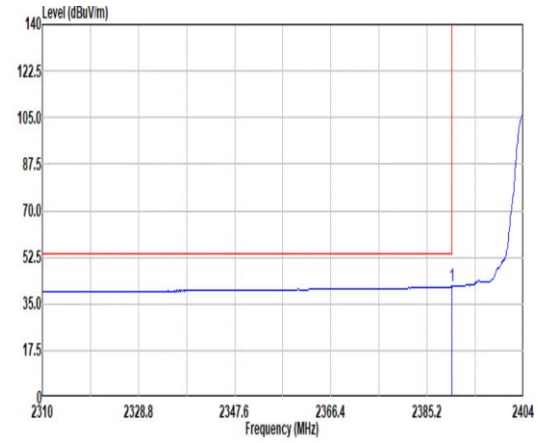
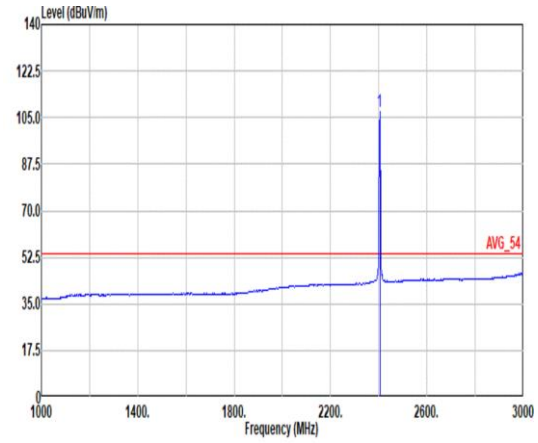
Mode	17	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.58 60.68 74.00 -13.32 50.76 27.94 6.75 34.80 10.03 110 224 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 109.29 ------ ------ 99.42 27.90 6.74 34.80 10.03 110 224 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 49.91 54.00 -4.09 39.99 27.94 6.75 34.80 10.03 110 224 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 108.71 ------ ------ 98.84 27.90 6.74 34.80 10.03 110 224 AVERAGE

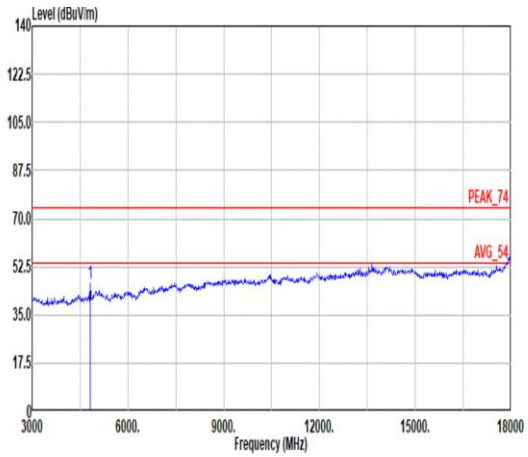
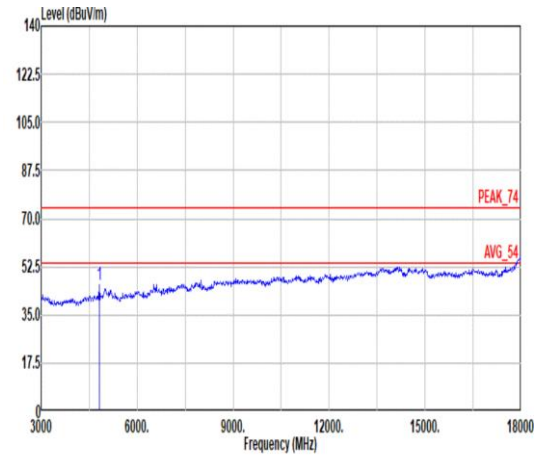
Mode	17	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.62 57.81 74.00 -16.19 47.89 27.94 6.75 34.80 10.03 320 269 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 106.77 ------ ------ 96.90 27.90 6.74 34.80 10.03 320 269 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 47.53 54.00 -6.47 37.61 27.94 6.75 34.80 10.03 320 269 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 106.22 ------ ------ 96.35 27.90 6.74 34.80 10.03 320 269 AVERAGE

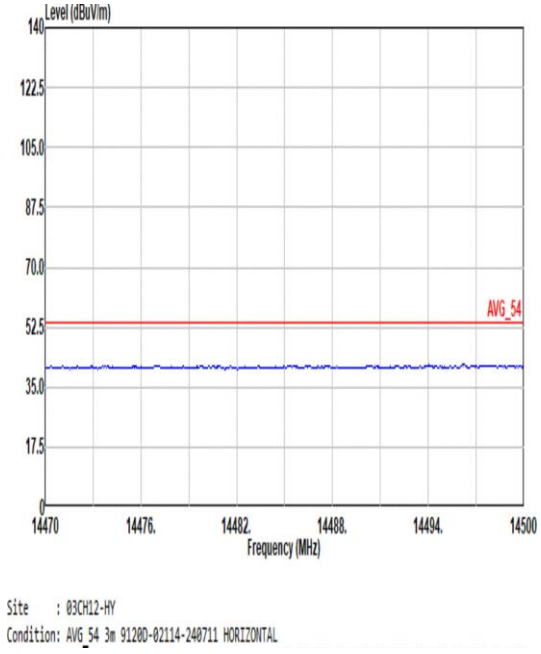
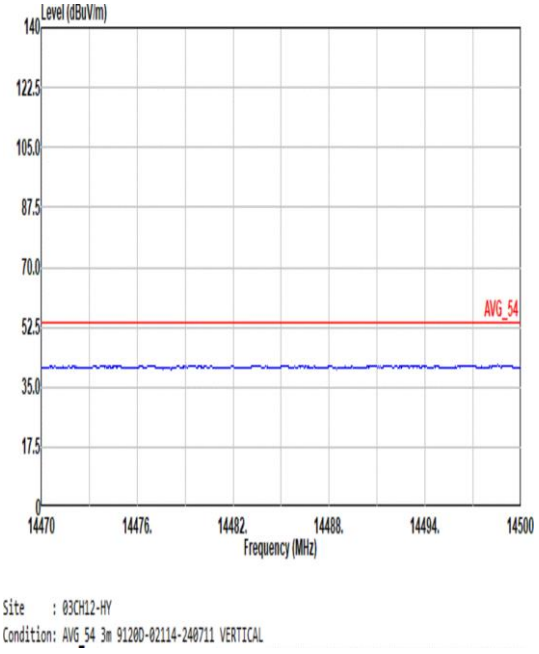
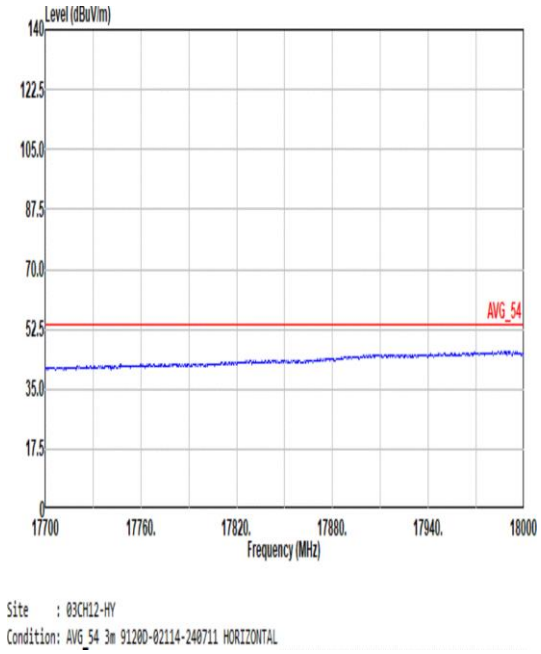
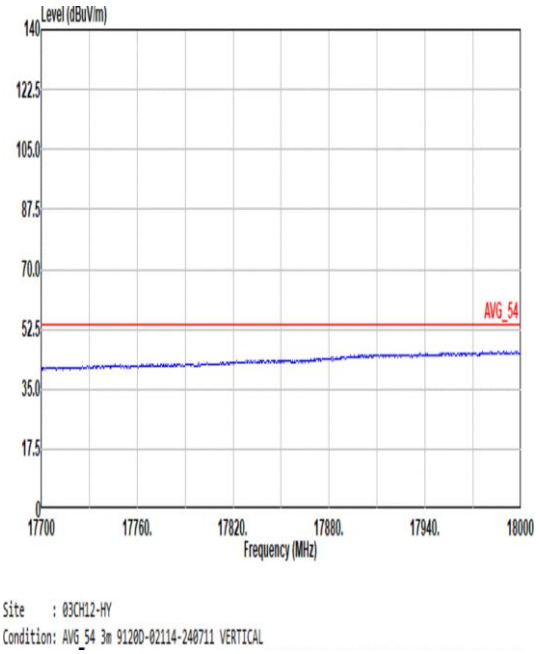
Mode	17	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 52.83 74.00 -21.17 75.59 33.32 10.36 66.90 0.46 396 82 PEAK 2 4960.00 48.88 54.00 -5.12 71.64 33.32 10.36 66.90 0.46 396 82 AVERAGE 3 7440.00 46.38 74.00 -27.62 62.13 36.68 13.37 66.14 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 55.39 74.00 -18.61 78.15 33.32 10.36 66.90 0.46 395 130 PEAK 2 4960.00 51.53 54.00 -2.47 74.29 33.32 10.36 66.90 0.46 395 130 AVERAGE 3 7440.00 46.06 74.00 -27.94 61.81 36.68 13.37 66.14 0.34 -- -- PEAK

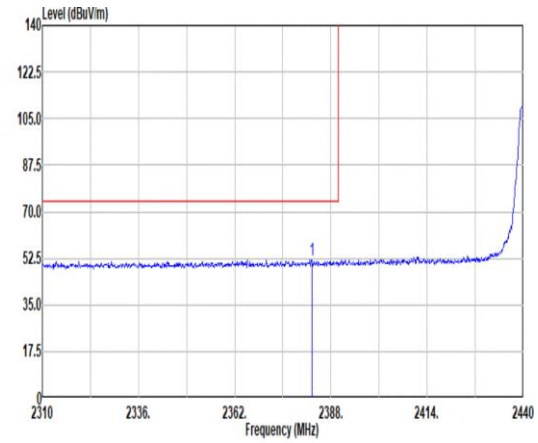
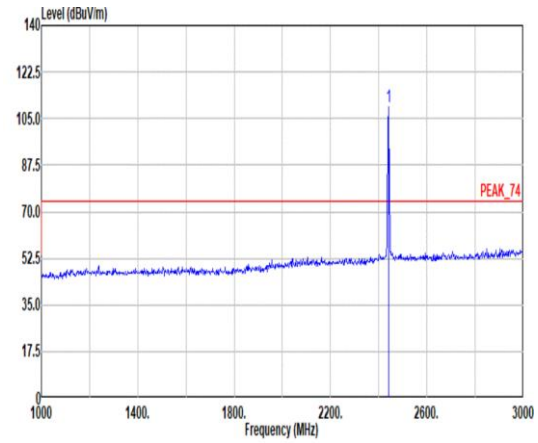
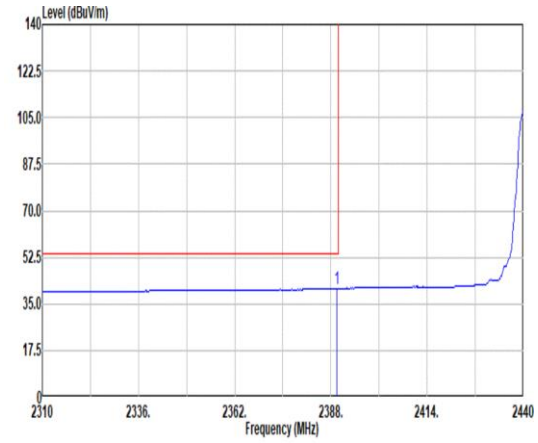
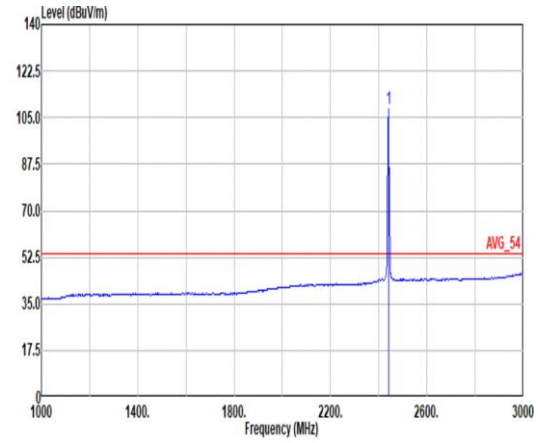
Mode	17	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

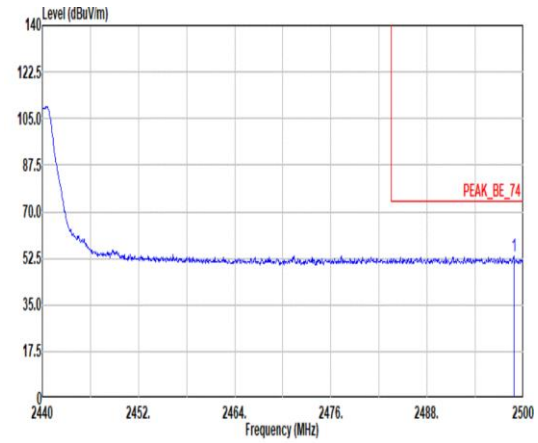
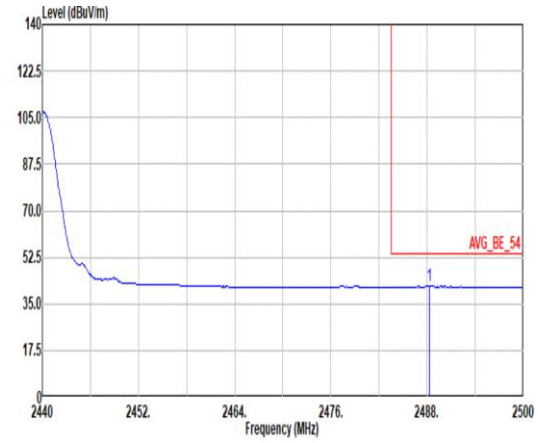
Mode	18	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2388.77 53.77 74.00 -20.23 44.46 27.48 6.60 34.80 10.03 101 229 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 110.80 ------ ------ 101.34 27.60 6.63 34.80 10.03 101 229 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.99 42.13 54.00 -11.87 32.79 27.50 6.61 34.80 10.03 101 229 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 109.39 ------ ------ 99.93 27.60 6.63 34.80 10.03 101 229 AVERAGE

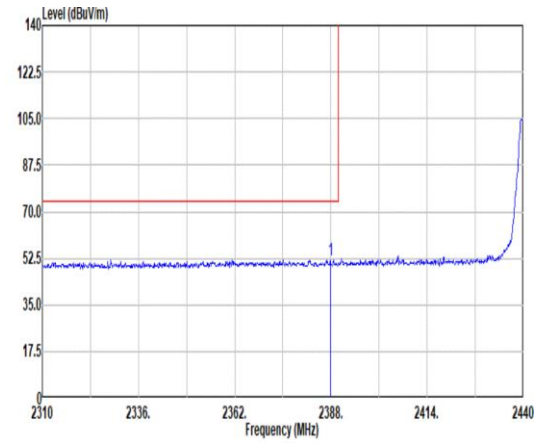
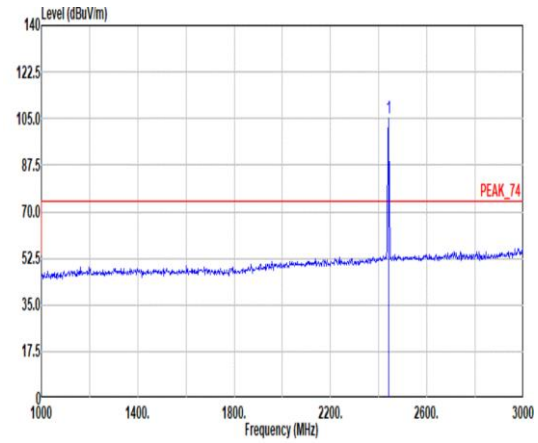
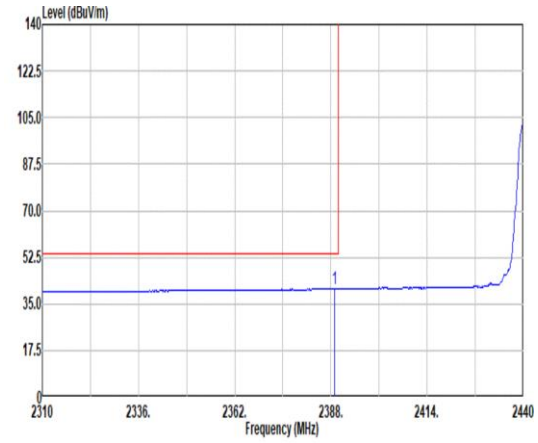
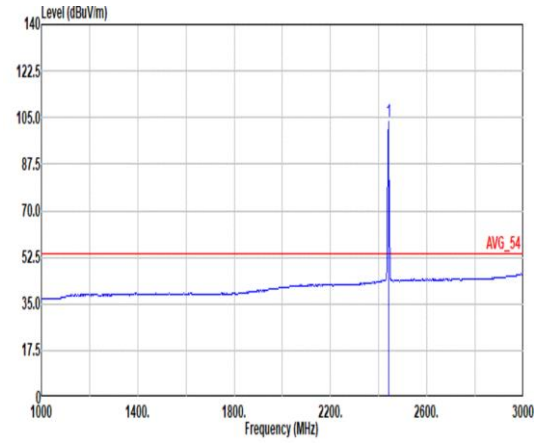
Mode	18	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH01_2404MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.90 52.47 74.00 -21.53 43.13 27.50 6.61 34.80 10.03 397 275 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 108.68 ------ ------ 99.22 27.60 6.63 34.80 10.03 397 275 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.99 41.51 54.00 -12.49 32.17 27.50 6.61 34.80 10.03 397 275 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 107.30 ------ ------ 97.84 27.60 6.63 34.80 10.03 397 275 AVERAGE

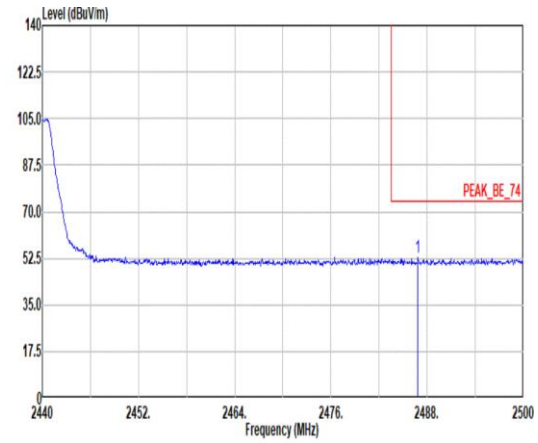
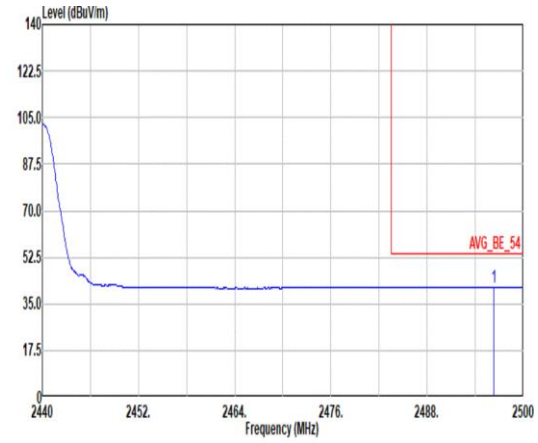
Mode	18	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4808.00 46.65 74.00 -27.35 70.21 32.55 10.55 67.08 0.42 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4808.00 46.16 74.00 -27.84 69.72 32.55 10.55 67.08 0.42 -- -- PEAK

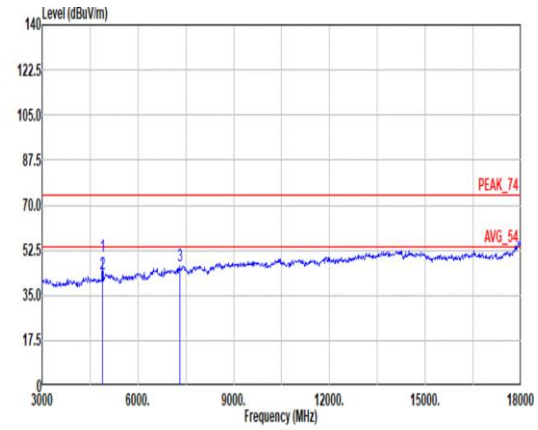
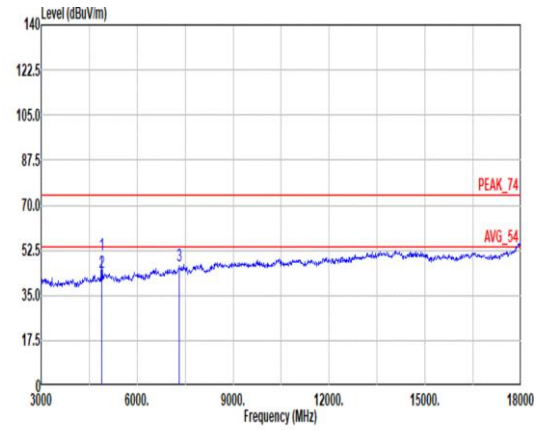
Mode	18	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

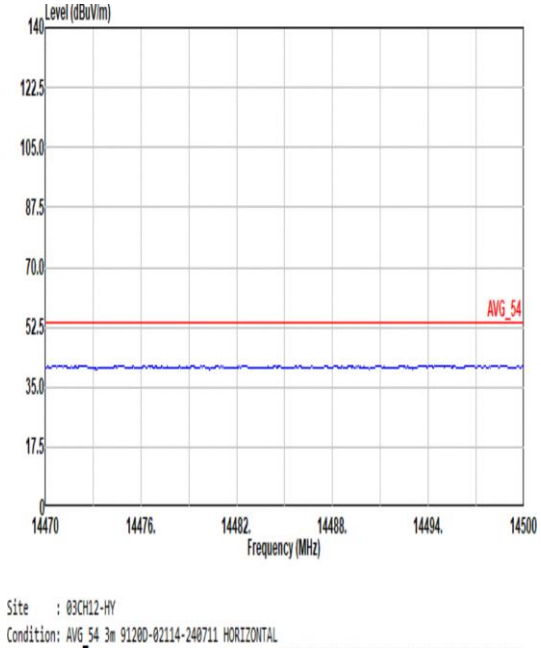
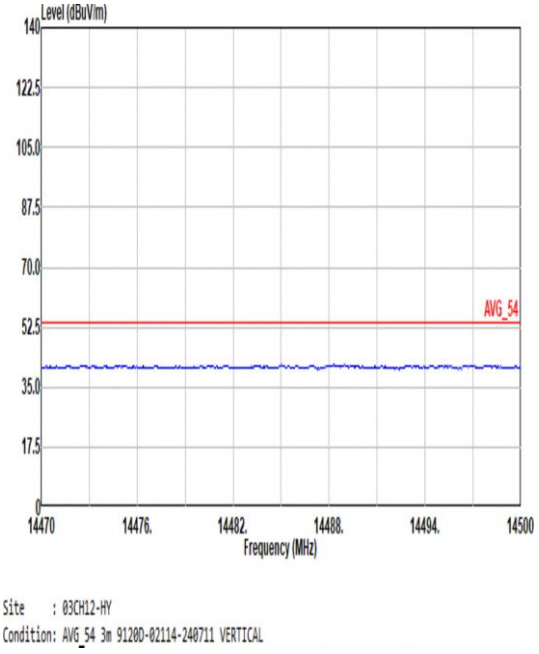
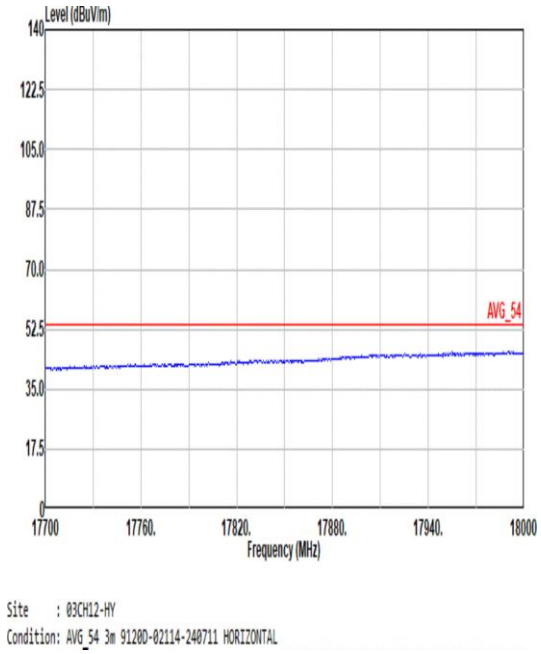
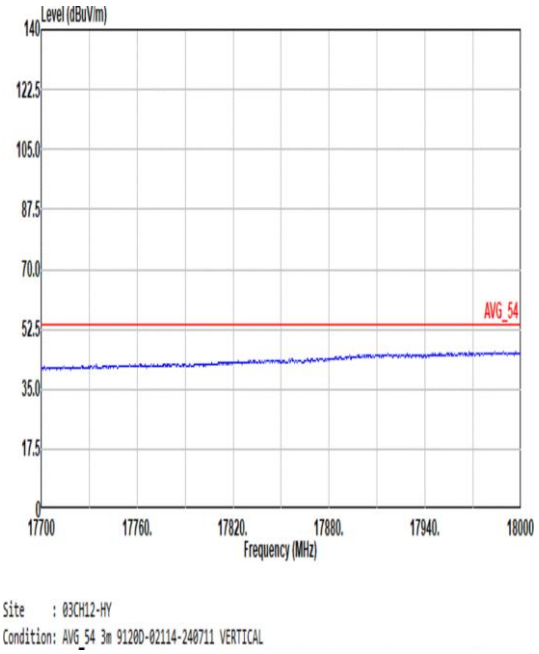
Mode	19	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2382.00 51.88 74.00 -22.12 42.69 27.36 6.60 34.80 10.03 115 233 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 109.60 ------ ------ 99.99 27.70 6.68 34.80 10.03 115 233 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.69 40.82 54.00 -13.18 31.49 27.49 6.61 34.80 10.03 115 233 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 108.21 ------ ------ 98.60 27.70 6.68 34.80 10.03 115 233 AVERAGE

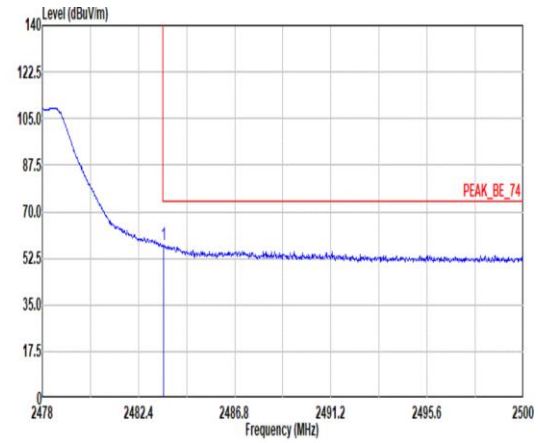
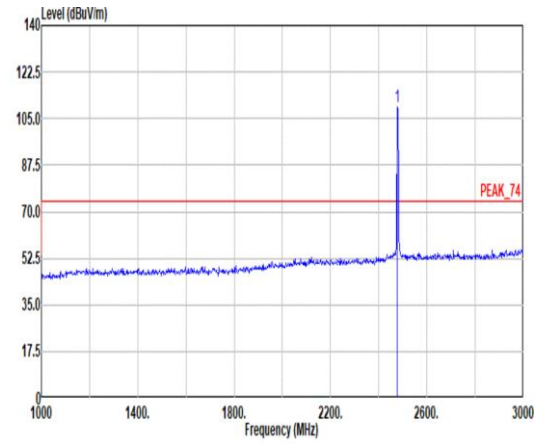
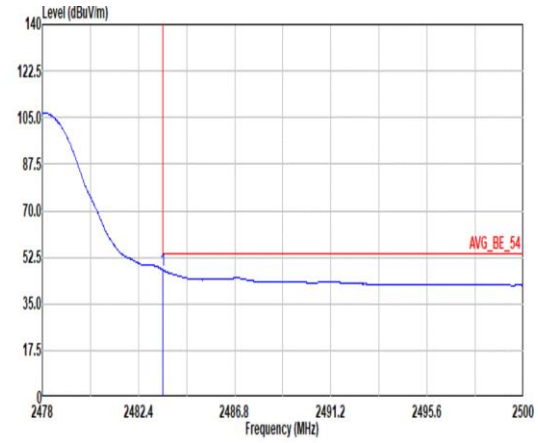
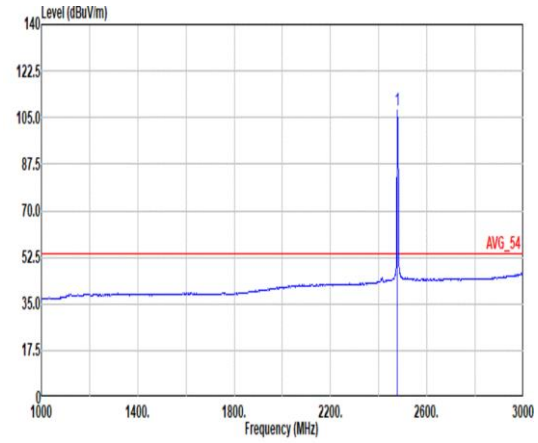
Mode	19	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2498.80 53.18 74.00 -20.82 43.09 28.09 6.77 34.80 10.03 115 233 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2488.24 41.56 54.00 -12.44 31.60 27.98 6.75 34.80 10.03 115 233 AVERAGE	Blank

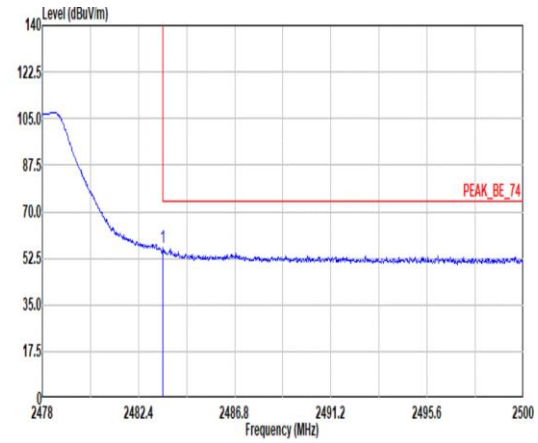
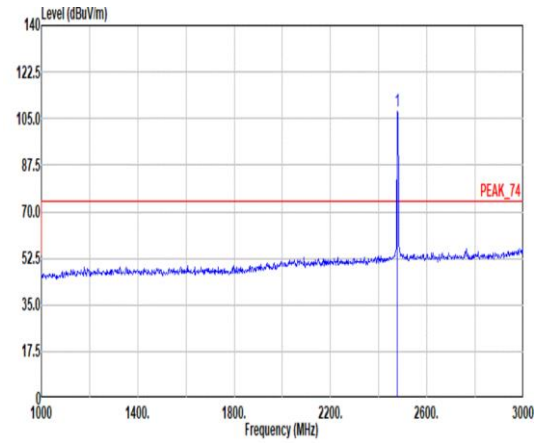
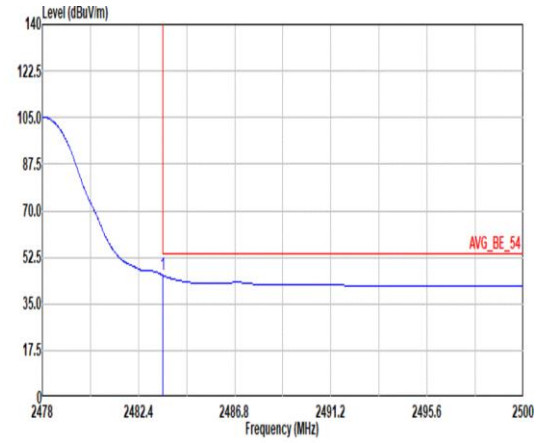
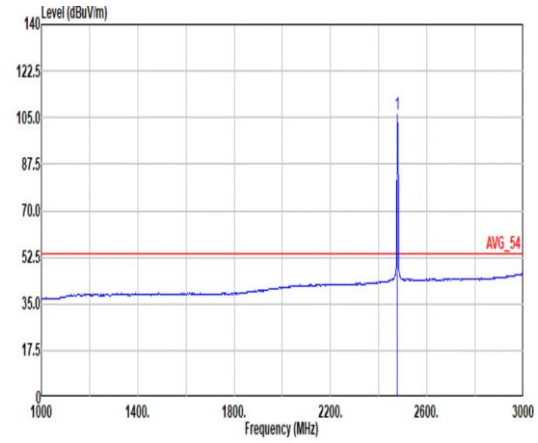
Mode	19	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2387.87 51.87 74.00 -22.13 42.58 27.46 6.60 34.80 10.03 400 274 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 105.11 ------ ------ 95.50 27.70 6.68 34.80 10.03 400 274 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2388.91 40.65 54.00 -13.35 31.33 27.48 6.61 34.80 10.03 400 274 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 103.68 ------ ------ 94.07 27.70 6.68 34.80 10.03 400 274 AVERAGE

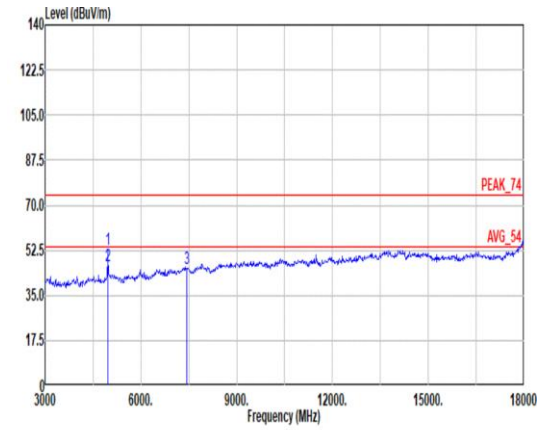
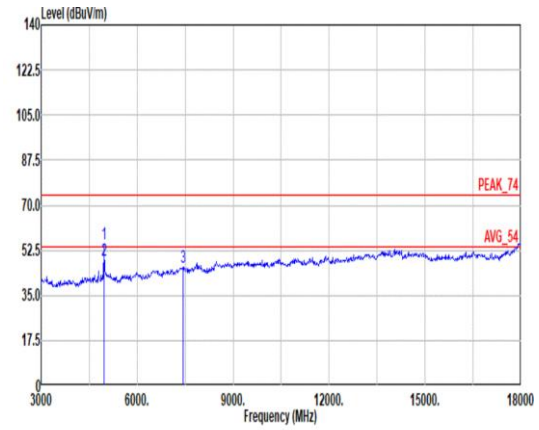
Mode	19	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2486.86 52.58 74.00 -21.42 42.63 27.97 6.75 34.80 10.03 400 274 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.34 41.21 54.00 -12.79 31.16 28.06 6.76 34.80 10.03 400 274 AVERAGE	Blank

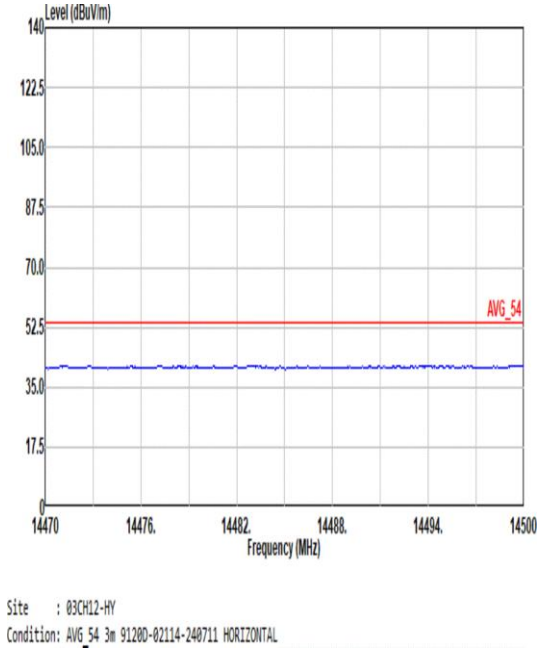
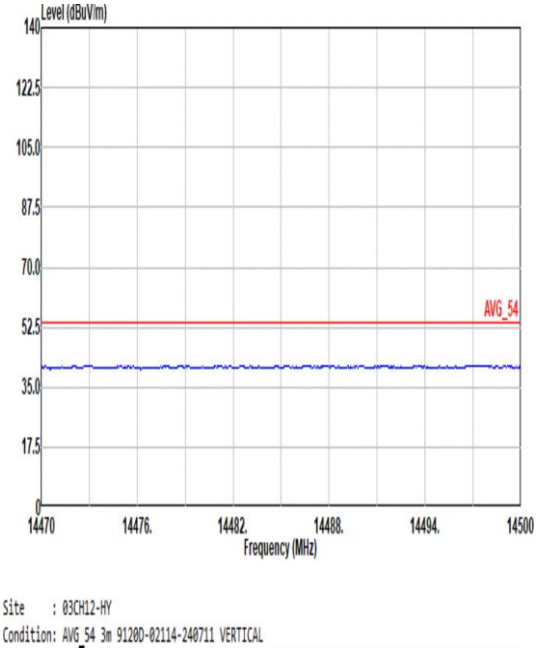
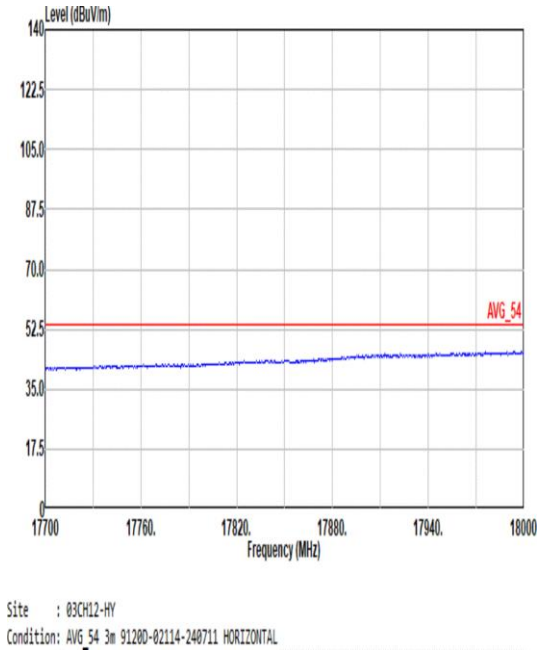
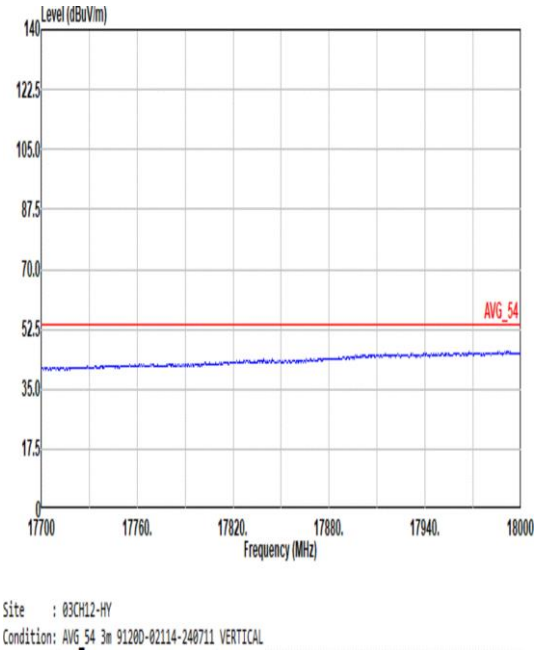
Mode	19	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 50.30 74.00 -23.70 73.53 32.86 10.46 66.99 0.44 106 90 PEAK 2 4880.00 43.43 54.00 -10.57 66.66 32.86 10.46 66.99 0.44 106 90 AVERAGE 3 7320.00 46.39 74.00 -27.61 61.81 37.08 13.20 66.04 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 50.92 74.00 -23.08 74.15 32.86 10.46 66.99 0.44 101 82 PEAK 2 4880.00 44.11 54.00 -9.89 67.34 32.86 10.46 66.99 0.44 101 82 AVERAGE 3 7320.00 46.61 74.00 -27.39 62.03 37.08 13.20 66.04 0.34 -- -- PEAK

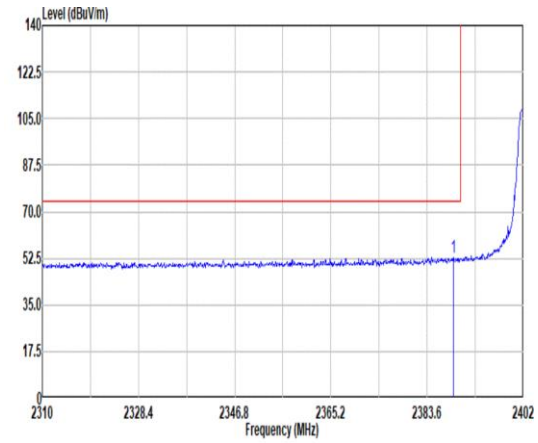
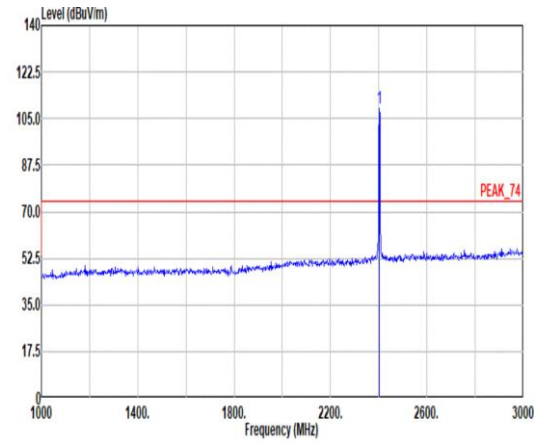
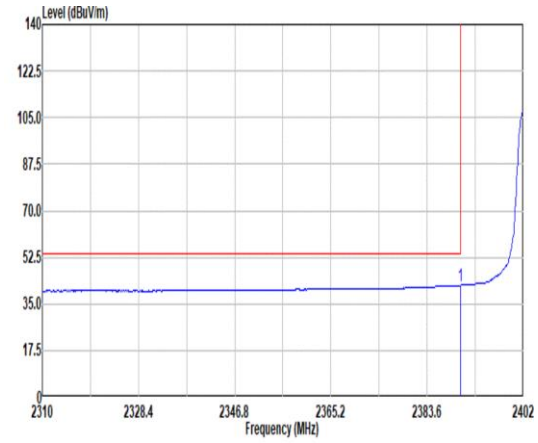
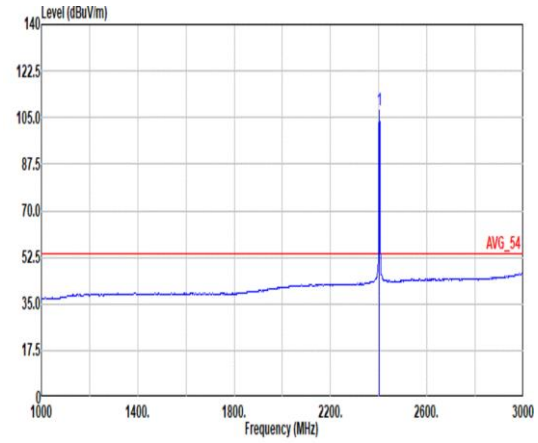
Mode	19	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

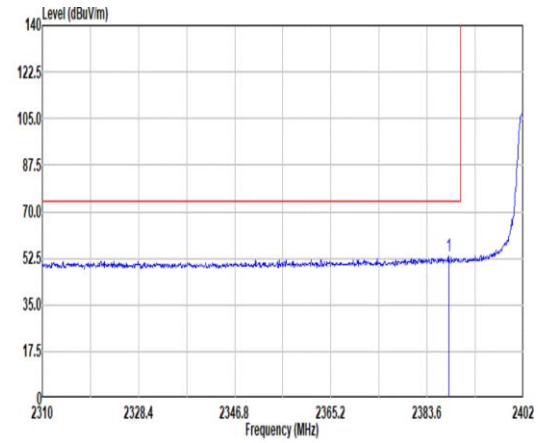
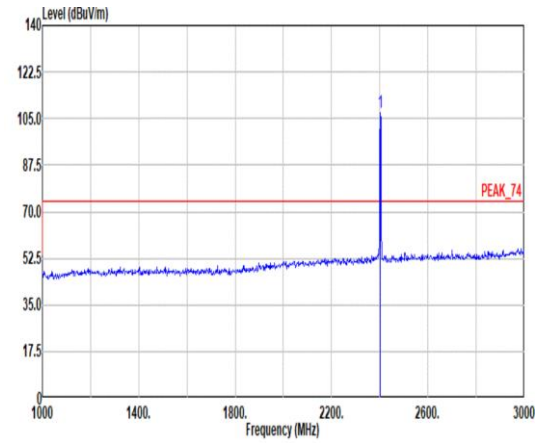
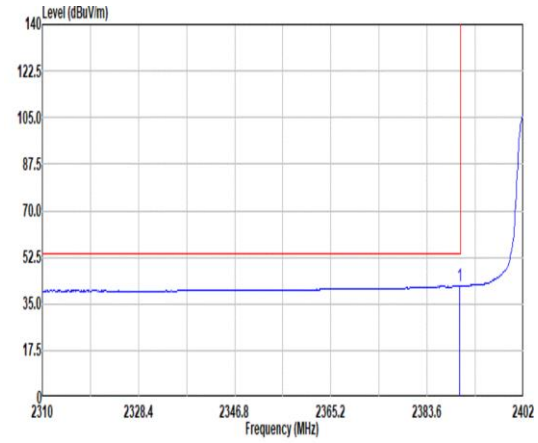
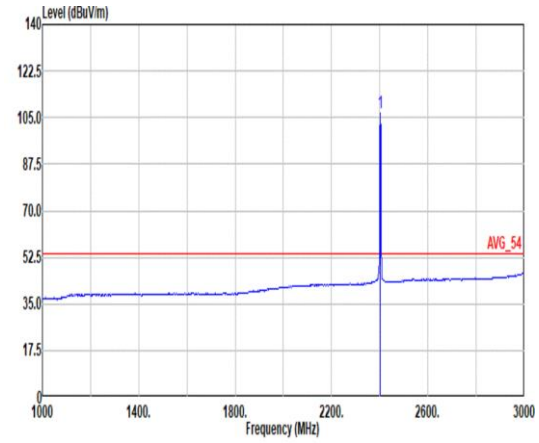
Mode	20	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH38_2478MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.54 57.48 74.00 -16.52 47.56 27.94 6.75 34.80 10.03 114 232 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 109.29 ------ ------ 99.44 27.88 6.74 34.80 10.03 114 232 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 47.75 54.00 -6.25 37.83 27.94 6.75 34.80 10.03 114 232 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 107.98 ------ ------ 98.13 27.88 6.74 34.80 10.03 114 232 AVERAGE

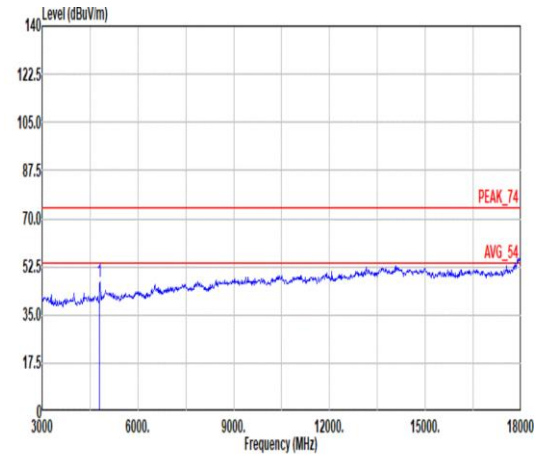
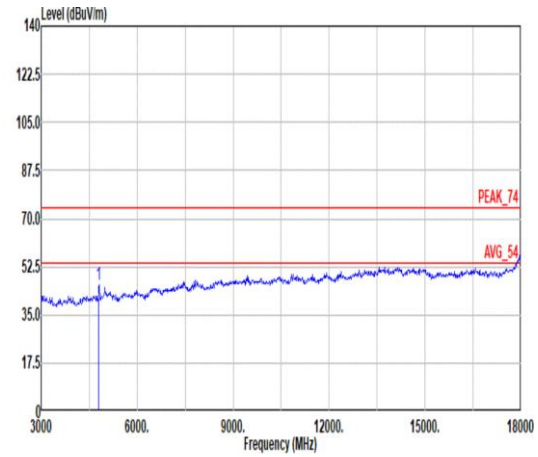
Mode	20	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH38_2478MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 56.30 74.00 -17.70 46.38 27.94 6.75 34.80 10.03 364 275 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 107.62 ------ ------ 97.77 27.88 6.74 34.80 10.03 364 275 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 45.77 54.00 -8.23 35.85 27.94 6.75 34.80 10.03 364 275 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 106.19 ------ ------ 96.34 27.88 6.74 34.80 10.03 364 275 AVERAGE

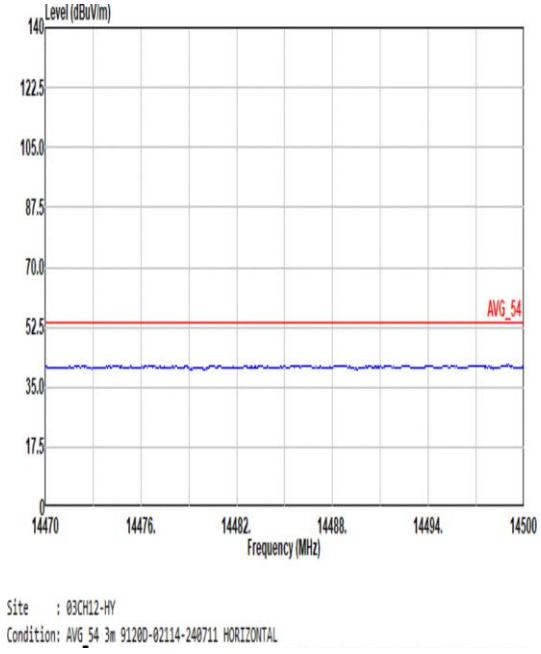
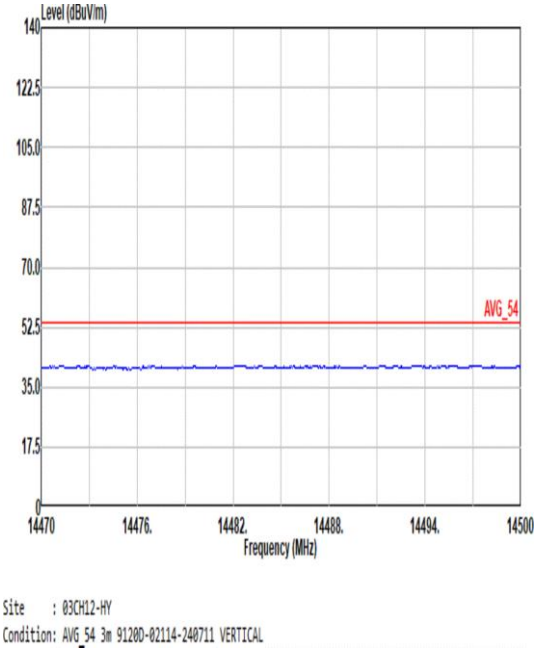
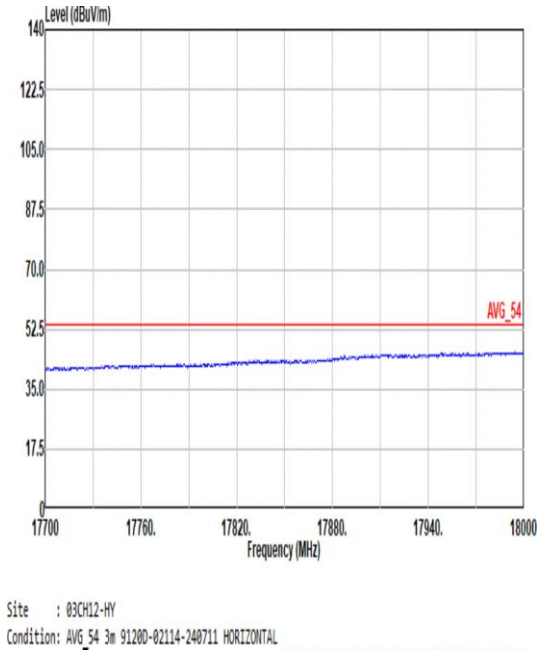
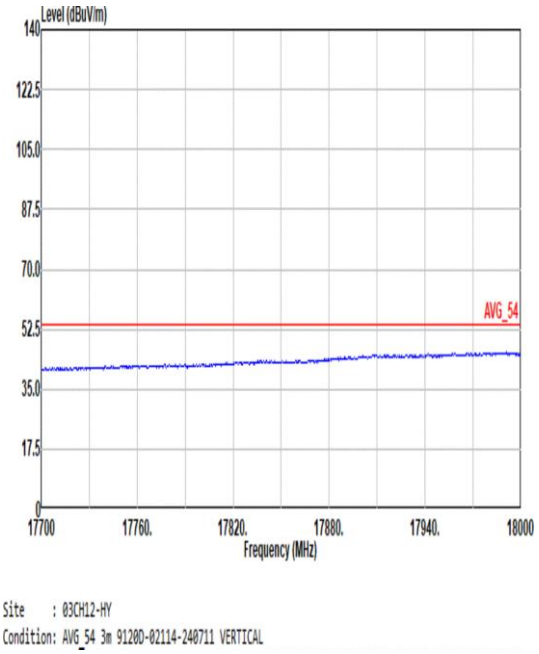
Mode	20	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH38_2478MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4956.00 52.97 74.00 -21.03 75.73 33.31 10.37 66.90 0.46 397 84 PEAK 2 4956.00 46.47 54.00 -7.53 69.23 33.31 10.37 66.90 0.46 397 84 AVERAGE 3 7434.00 45.60 74.00 -28.40 61.35 36.67 13.37 66.13 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4956.00 54.78 74.00 -19.22 77.54 33.31 10.37 66.90 0.46 396 130 PEAK 2 4956.00 48.85 54.00 -5.15 71.61 33.31 10.37 66.90 0.46 396 130 AVERAGE 3 7434.00 46.02 74.00 -27.98 61.77 36.67 13.37 66.13 0.34 -- -- PEAK

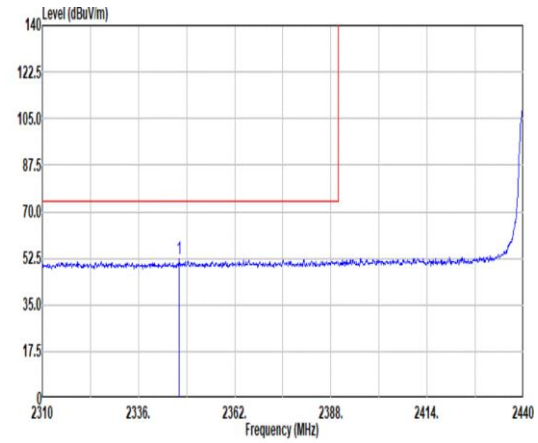
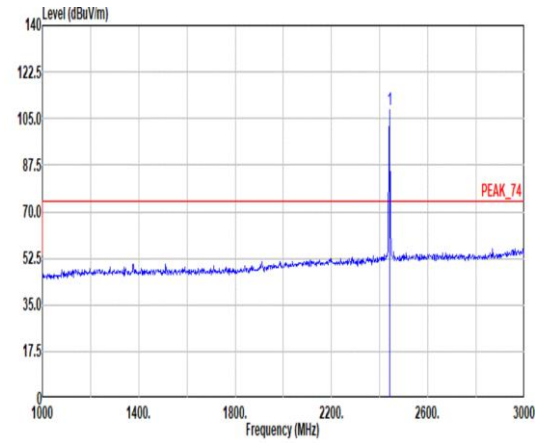
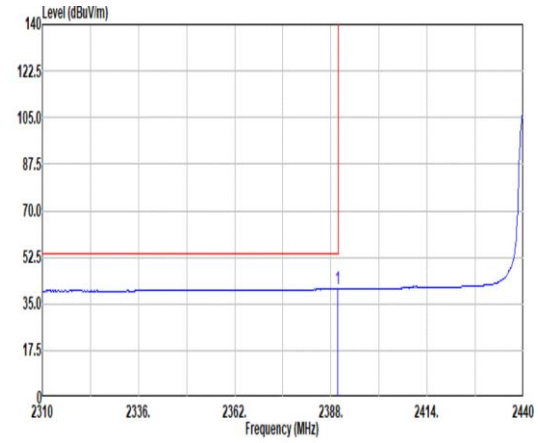
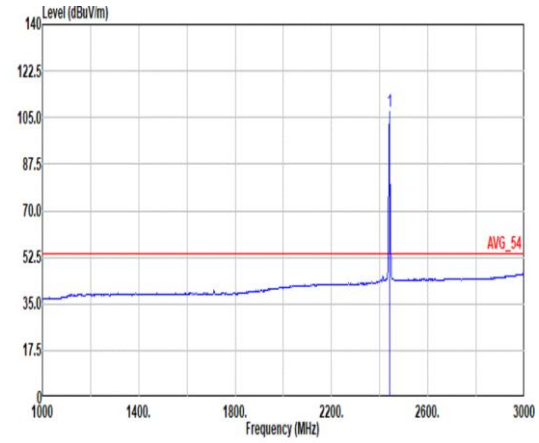
Mode	20	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH38_2478MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	21	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2388.57 53.09 74.00 -20.91 43.79 27.47 6.60 34.80 10.03 121 230 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 108.65 ------ ------ 99.20 27.60 6.62 34.80 10.03 121 230 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 41.99 54.00 -12.01 32.65 27.50 6.61 34.80 10.03 121 230 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 107.96 ------ ------ 98.51 27.60 6.62 34.80 10.03 121 230 AVERAGE

Mode	21	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2387.74 53.29 74.00 -20.71 44.01 27.45 6.60 34.80 10.03 400 261 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 107.13 ------ ------ 97.68 27.60 6.62 34.80 10.03 400 261 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.76 41.68 54.00 -12.32 32.34 27.50 6.61 34.80 10.03 400 261 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 106.47 ------ ------ 97.02 27.60 6.62 34.80 10.03 400 261 AVERAGE

Mode	21	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 47.20 74.00 -26.80 70.78 32.52 10.56 67.08 0.42 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 45.82 74.00 -28.18 69.40 32.52 10.56 67.08 0.42 -- -- PEAK

Mode	21	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	22	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2347.05 52.38 74.00 -21.62 43.29 27.30 6.55 34.79 10.03 111 231 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 108.16 ------ ------ 98.55 27.70 6.68 34.80 10.03 111 231 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.82 40.60 54.00 -13.40 31.26 27.50 6.61 34.80 10.03 111 231 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 107.51 ------ ------ 97.90 27.70 6.68 34.80 10.03 111 231 AVERAGE

Mode	22	
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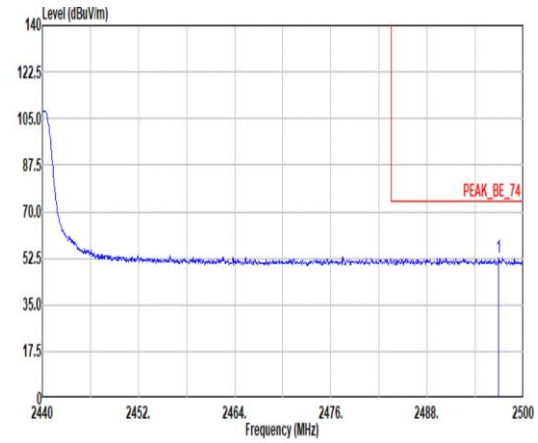
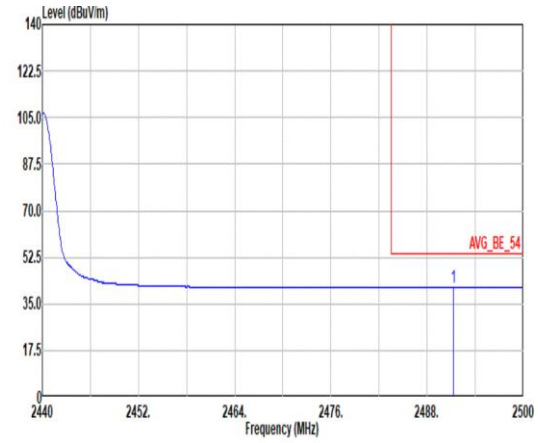
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.94 52.61 74.00 -21.39 42.54 28.07 6.77 34.80 10.03 111 231 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2491.24 41.24 54.00 -12.76 31.24 28.01 6.76 34.80 10.03 111 231 AVERAGE	Blank

Mode	22	
	Band Edge - L	
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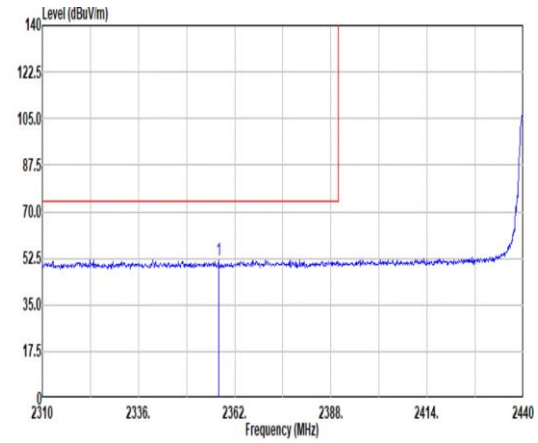
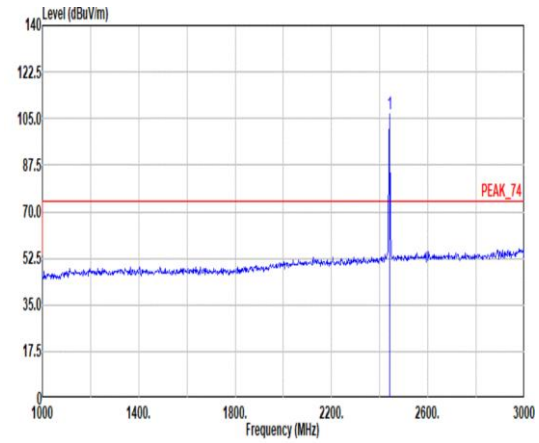
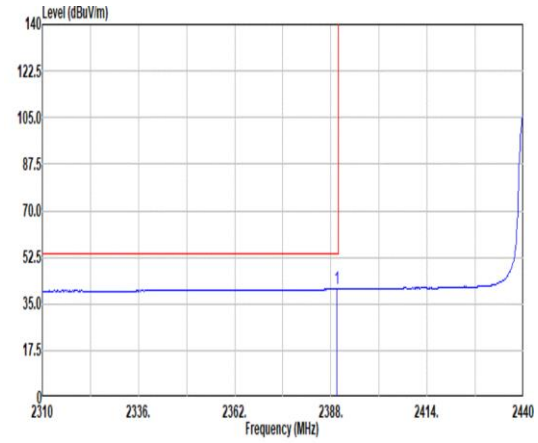
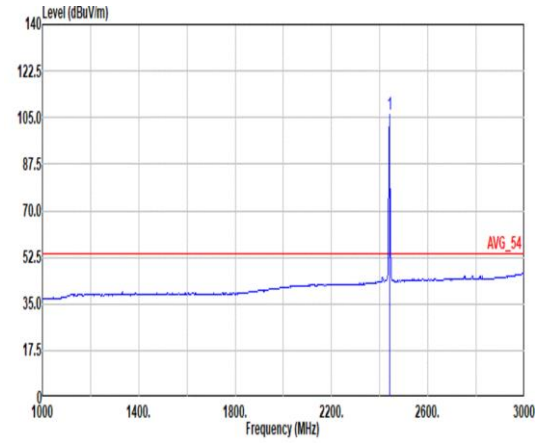
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2357.58 51.91 74.00 -22.09 42.73 27.38 6.56 34.79 10.03 300 271 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 106.94 ------ ------ 97.33 27.70 6.68 34.80 10.03 300 271 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.56 40.53 54.00 -13.47 31.20 27.49 6.61 34.80 10.03 300 271 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 106.28 ------ ------ 96.67 27.70 6.68 34.80 10.03 300 271 AVERAGE

Mode	22	
	Band Edge - R	
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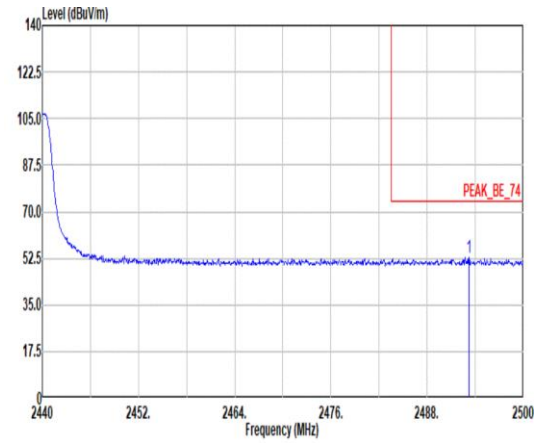
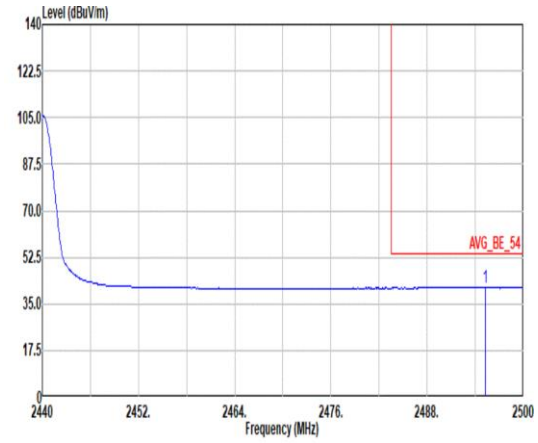
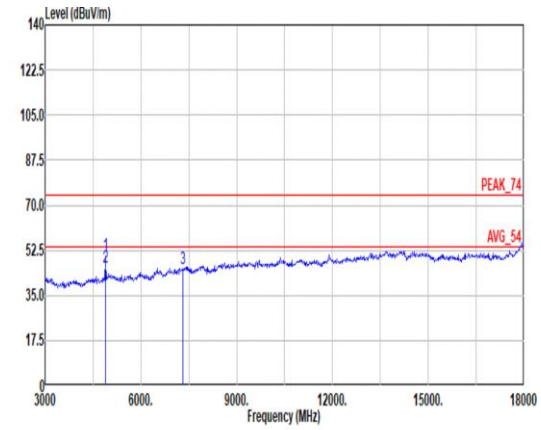
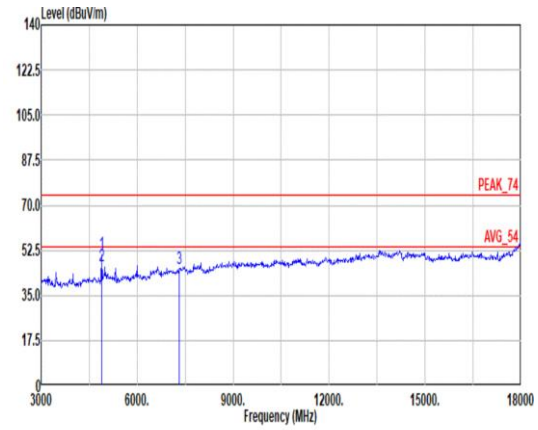
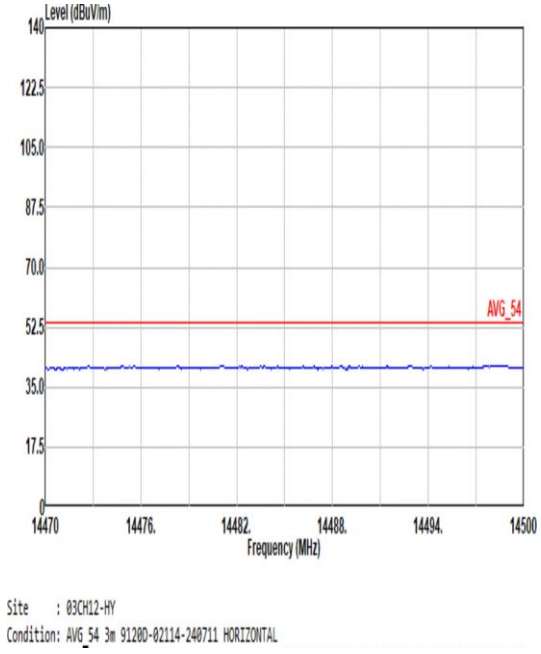
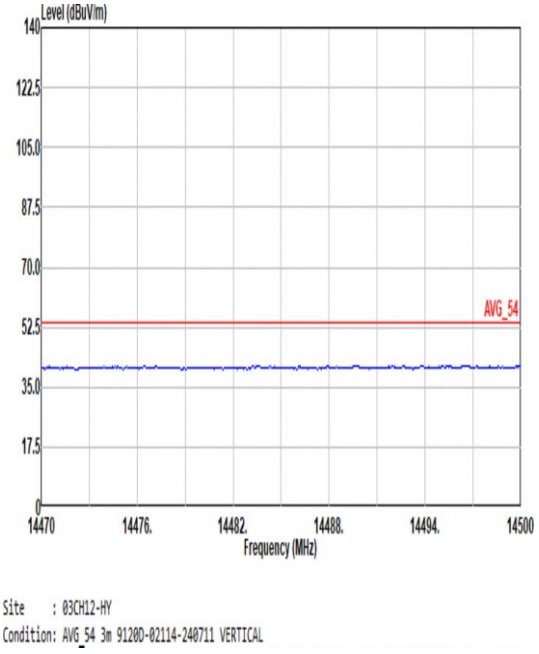
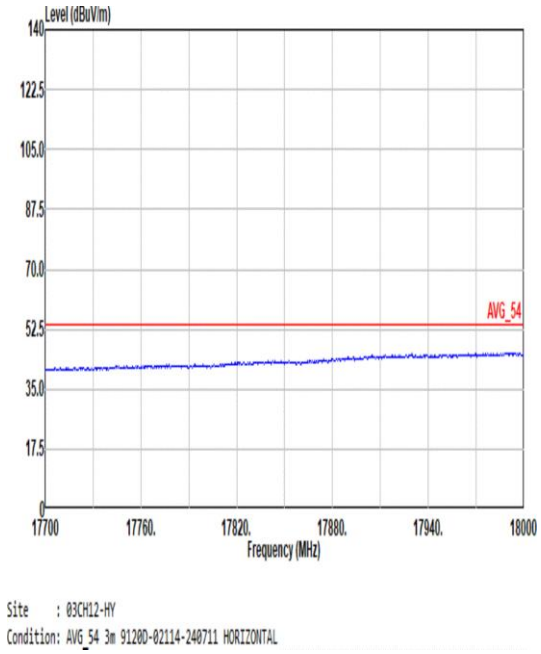
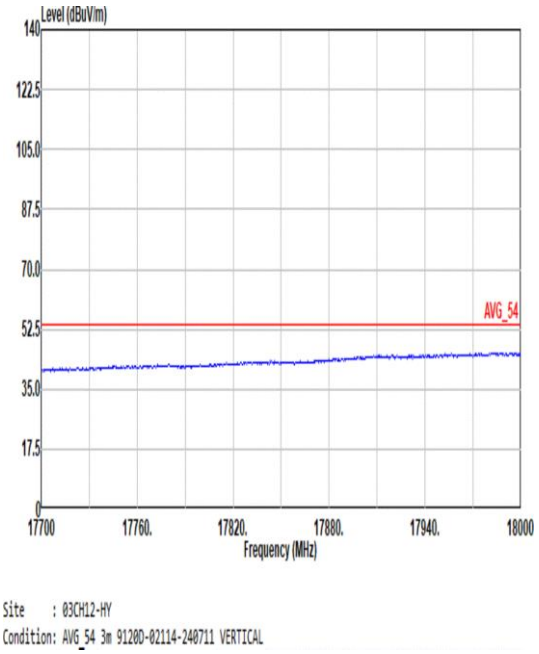
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2493.22 53.03 74.00 -20.97 43.01 28.03 6.76 34.80 10.03 300 271 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2495.26 41.06 54.00 -12.94 31.02 28.05 6.76 34.80 10.03 300 271 AVERAGE	Blank

Mode	22	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 50.98 74.00 -23.02 74.21 32.86 10.46 66.99 0.44 338 91 PEAK 2 4880.00 46.08 54.00 -7.92 69.31 32.86 10.46 66.99 0.44 338 91 AVERAGE 3 7320.00 45.67 74.00 -28.33 61.09 37.08 13.20 66.04 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 51.27 74.00 -22.73 74.50 32.86 10.46 66.99 0.44 104 84 PEAK 2 4880.00 46.41 54.00 -7.59 69.64 32.86 10.46 66.99 0.44 104 84 AVERAGE 3 7320.00 45.33 74.00 -28.67 60.75 37.08 13.20 66.04 0.34 -- -- PEAK

Mode	22	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	23	
	Band Edge	
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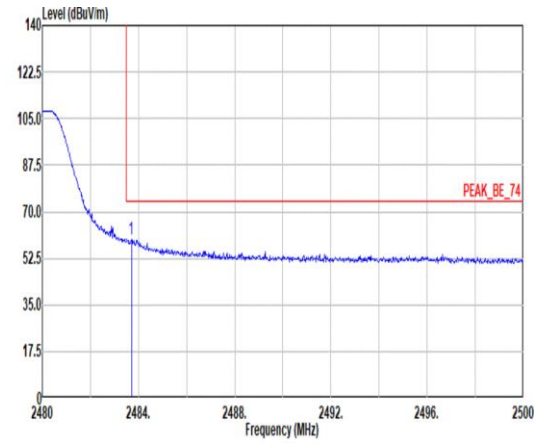
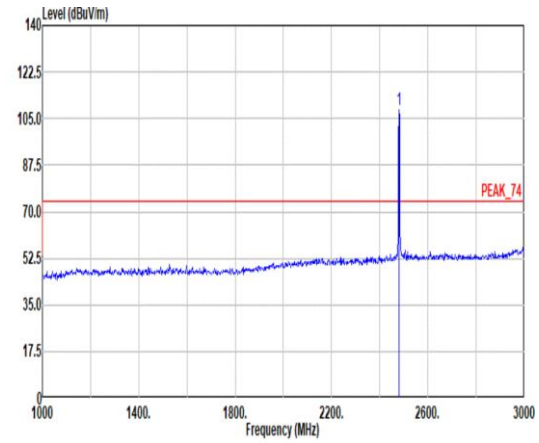
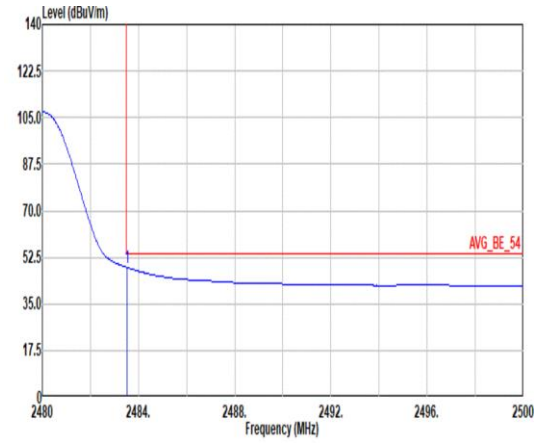
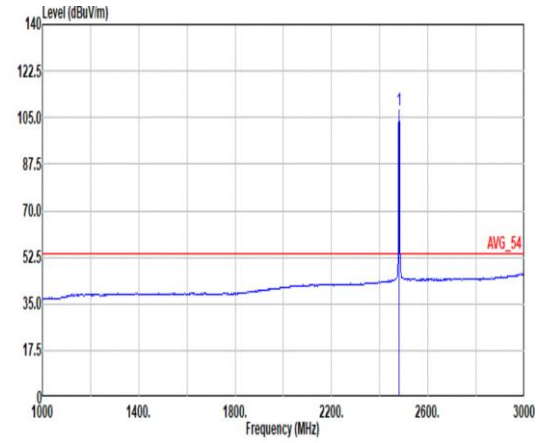
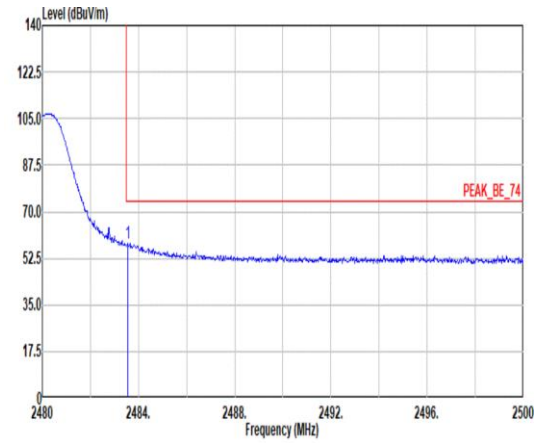
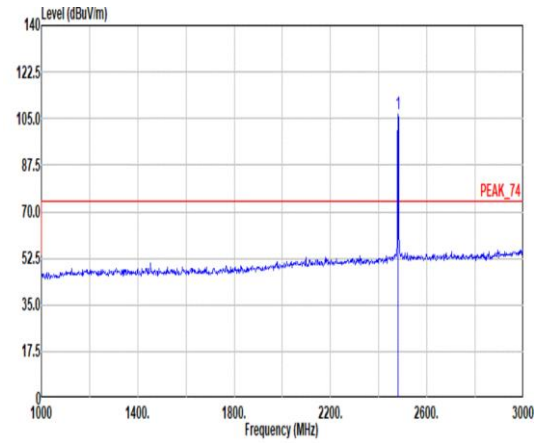
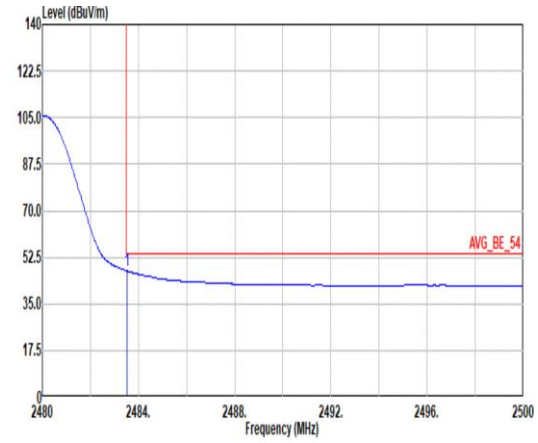
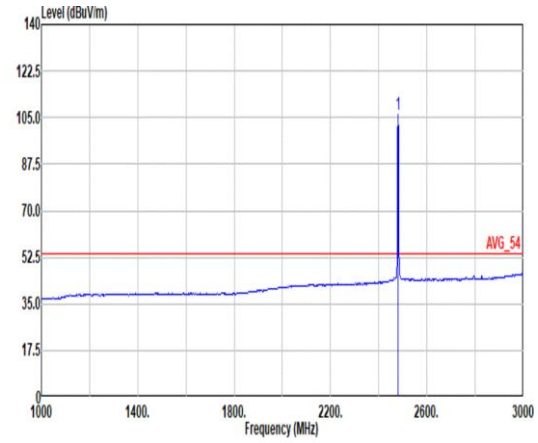
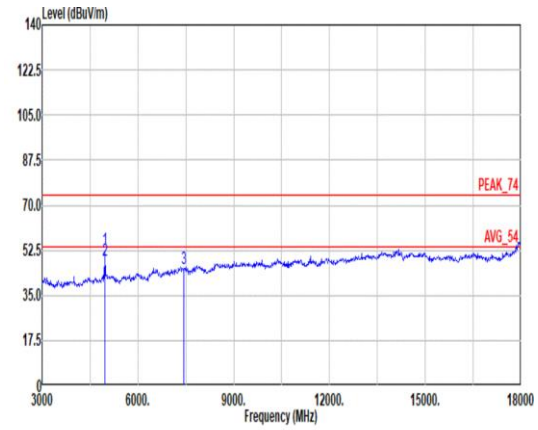
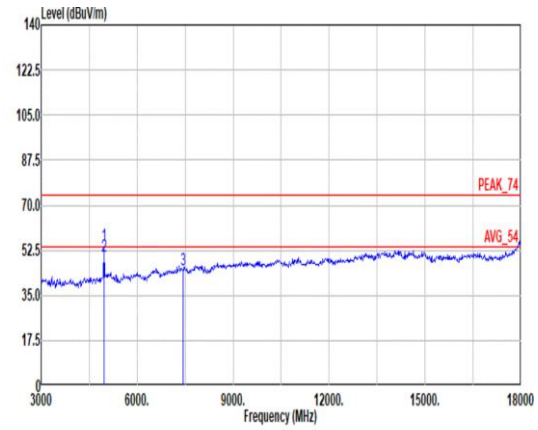
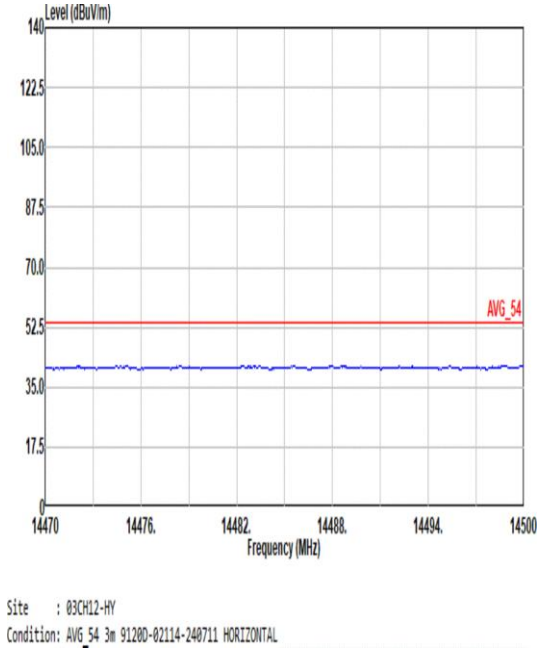
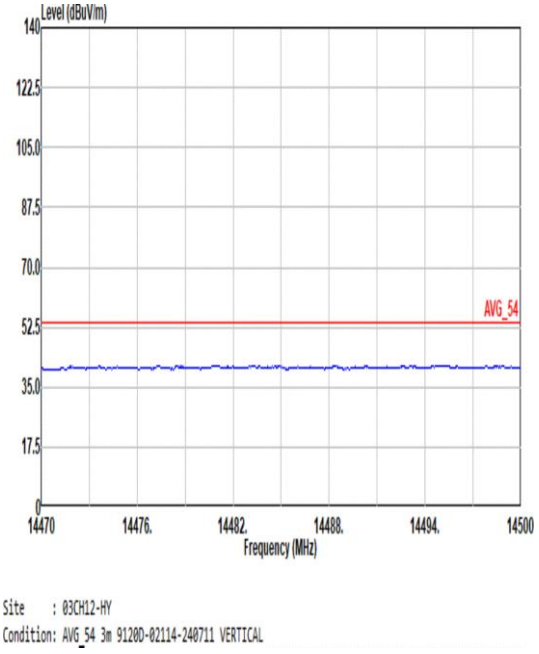
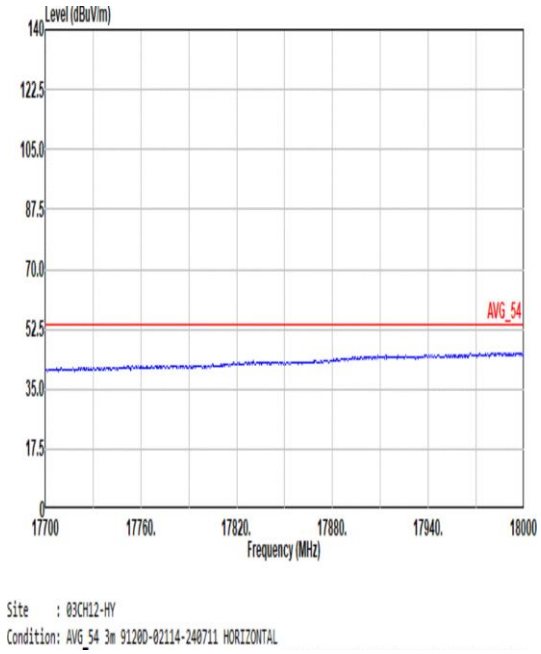
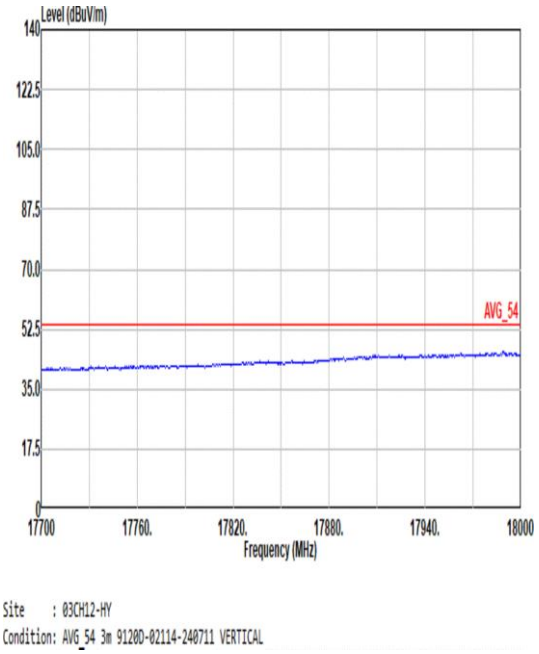
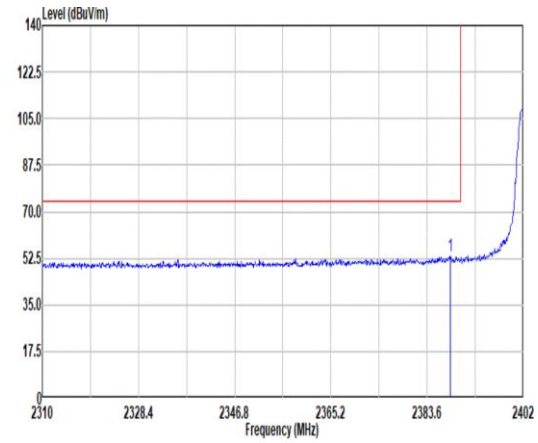
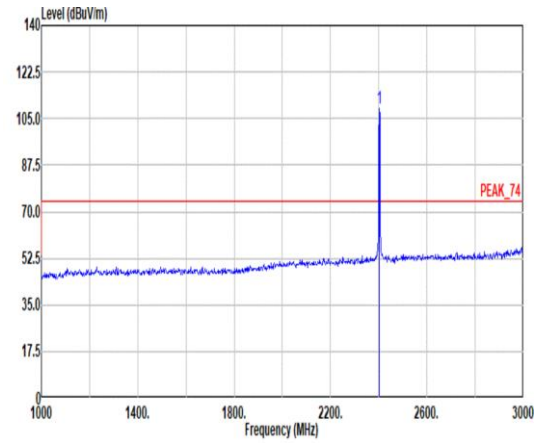
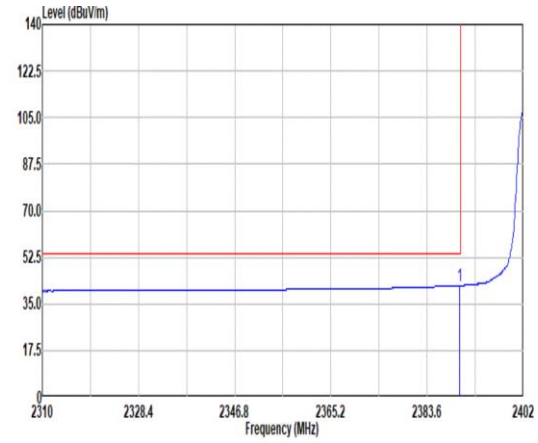
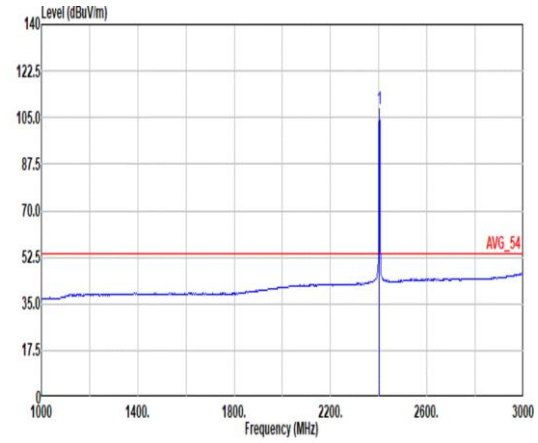
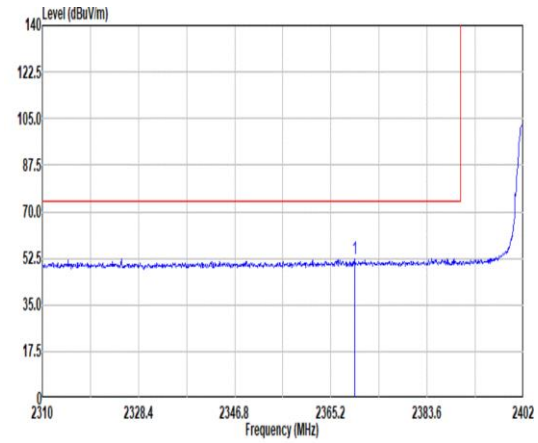
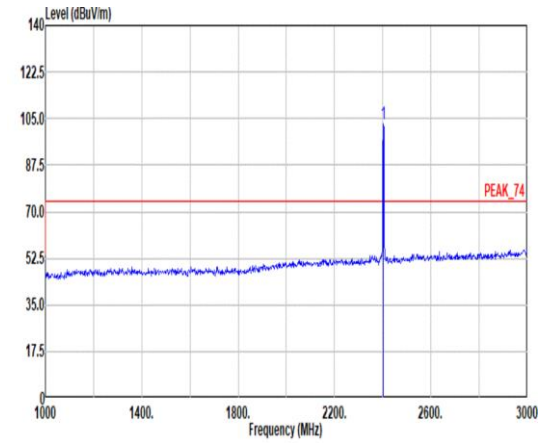
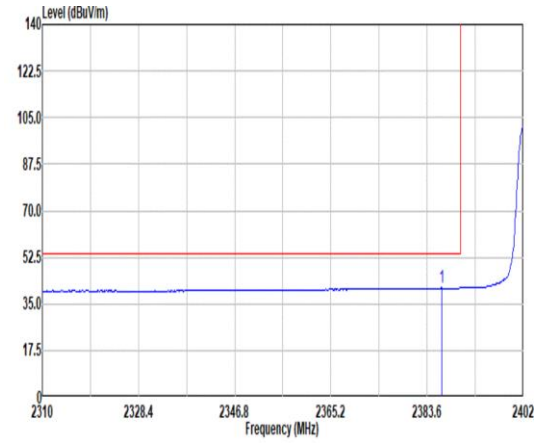
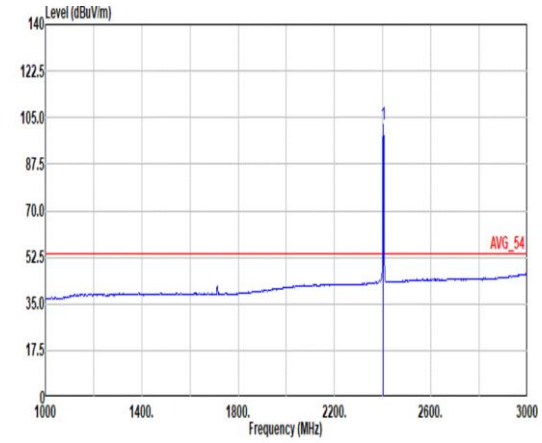
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.70 59.51 74.00 -14.49 49.59 27.94 6.75 34.80 10.03 109 60 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 108.22 ------ ------ 98.35 27.90 6.74 34.80 10.03 109 60 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 48.74 54.00 -5.26 38.82 27.94 6.75 34.80 10.03 109 60 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 107.55 ------ ------ 97.68 27.90 6.74 34.80 10.03 109 60 AVERAGE

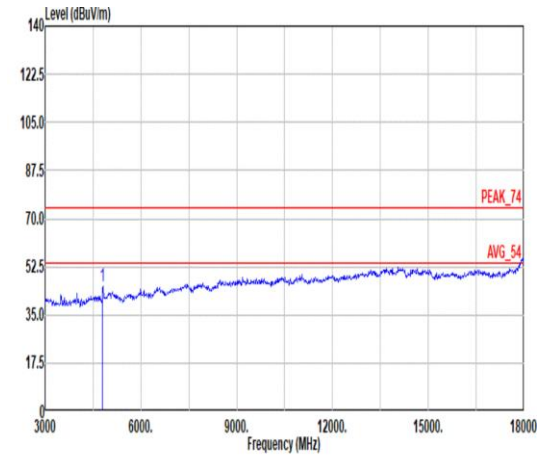
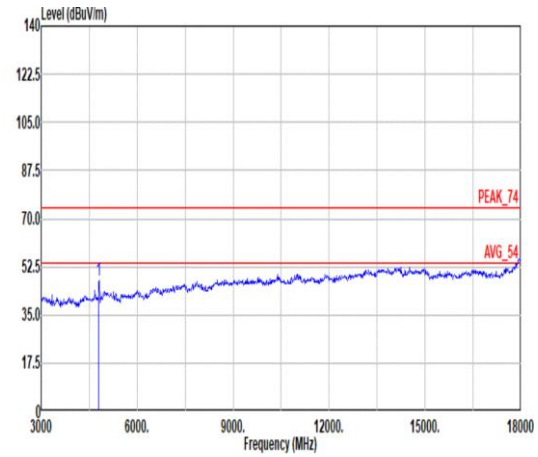
Mode	23	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.54 58.18 74.00 -15.82 48.26 27.94 6.75 34.80 10.03 363 260 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 106.92 ------ ------ 97.05 27.90 6.74 34.80 10.03 363 260 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 47.42 54.00 -6.58 37.50 27.94 6.75 34.80 10.03 363 260 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 106.24 ------ ------ 96.37 27.90 6.74 34.80 10.03 363 260 AVERAGE

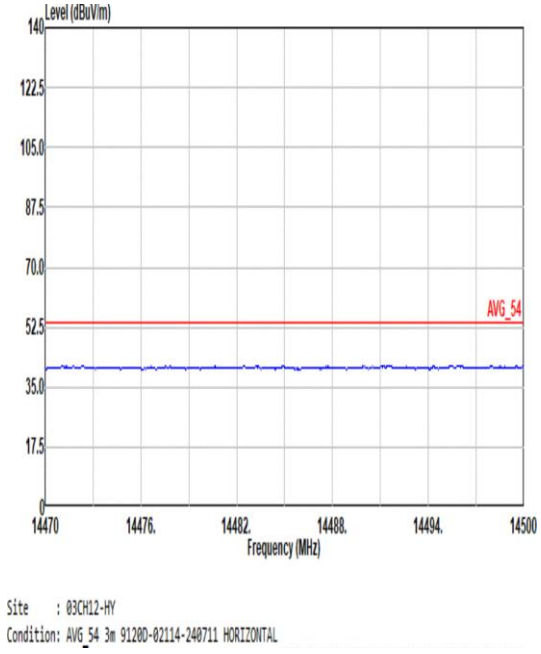
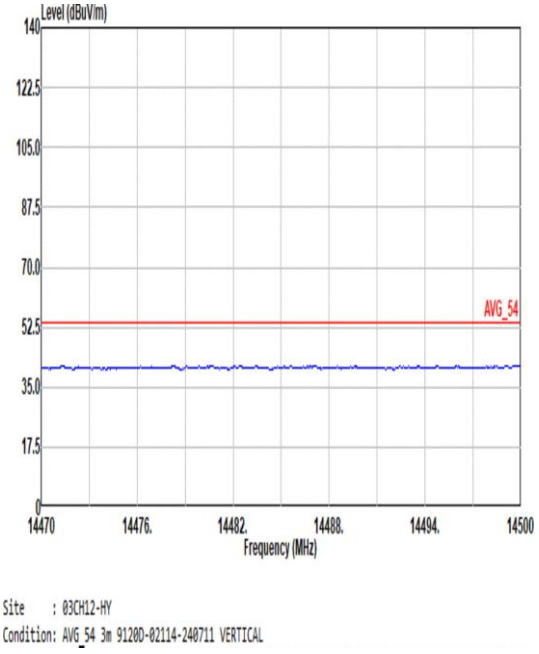
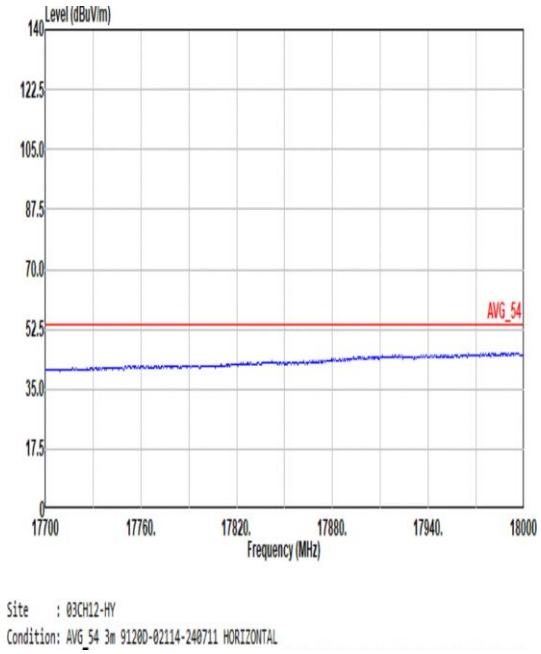
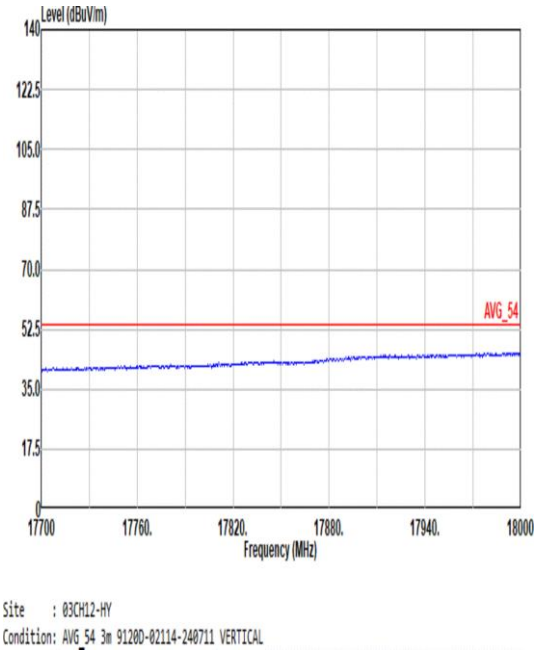
Mode	23	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 52.78 74.00 -21.22 75.54 33.32 10.36 66.90 0.46 395 75 PEAK 2 4960.00 48.46 54.00 -5.54 71.22 33.32 10.36 66.90 0.46 395 75 AVERAGE 3 7440.00 45.37 74.00 -28.63 61.12 36.68 13.37 66.14 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 54.21 74.00 -19.79 76.97 33.32 10.36 66.90 0.46 100 90 PEAK 2 4960.00 50.25 54.00 -3.75 73.01 33.32 10.36 66.90 0.46 100 90 AVERAGE 3 7440.00 45.14 74.00 -28.86 60.89 36.68 13.37 66.14 0.34 -- -- PEAK

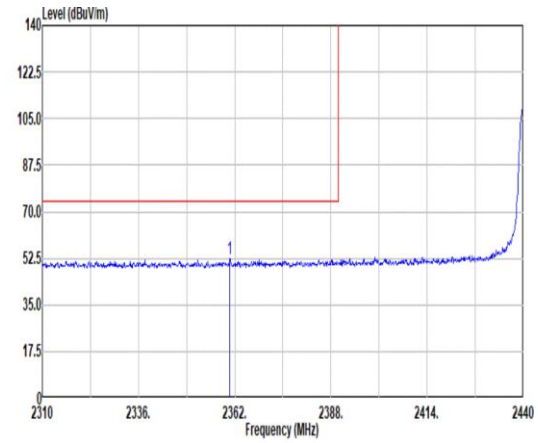
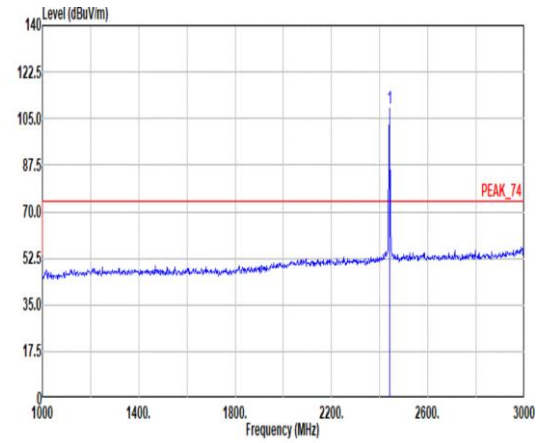
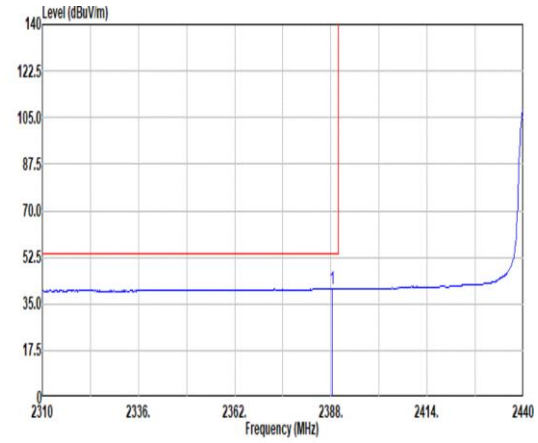
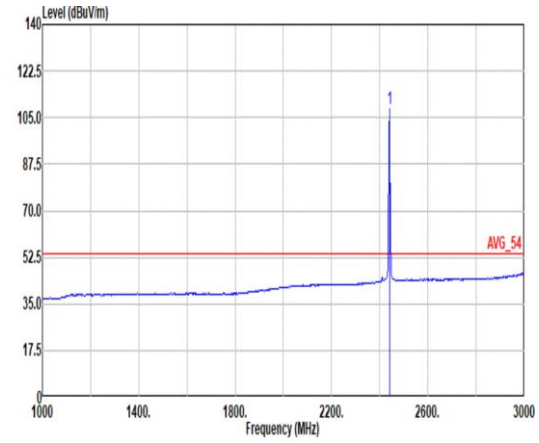
Mode	23	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

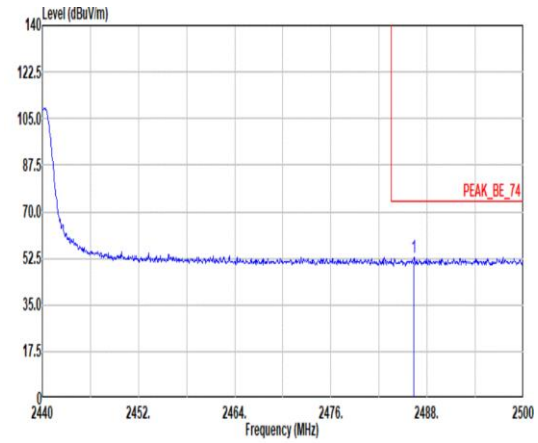
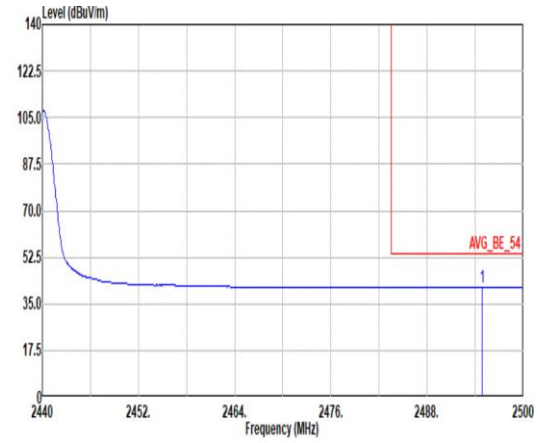
Mode	24	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2388.02 53.10 74.00 -20.90 43.81 27.46 6.60 34.80 10.03 105 342 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 108.69 ------ ------ 99.24 27.60 6.62 34.80 10.03 105 342 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.76 41.94 54.00 -12.06 32.60 27.50 6.61 34.80 10.03 105 342 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 108.22 ------ ------ 98.77 27.60 6.62 34.80 10.03 105 342 AVERAGE

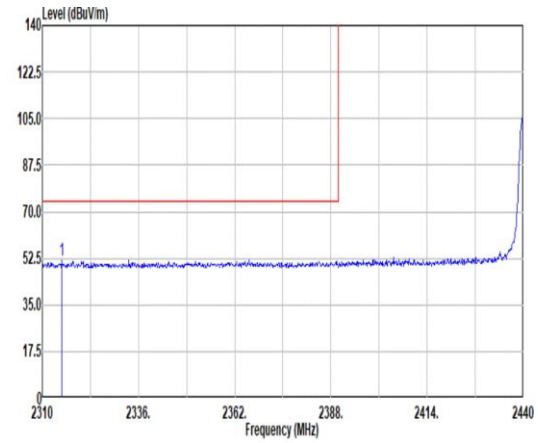
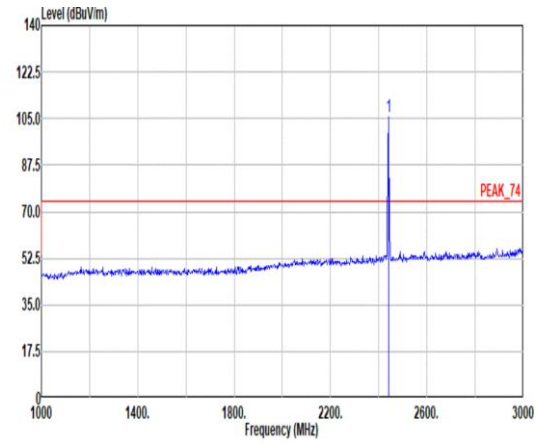
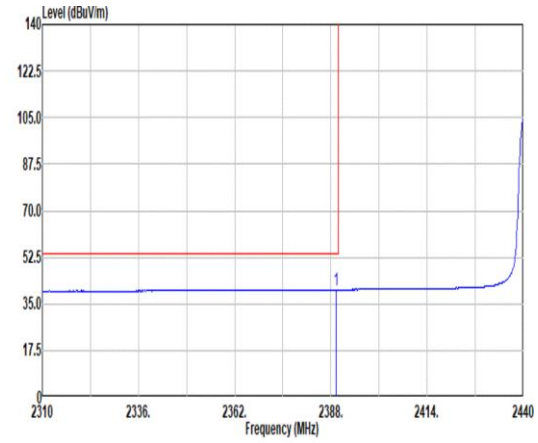
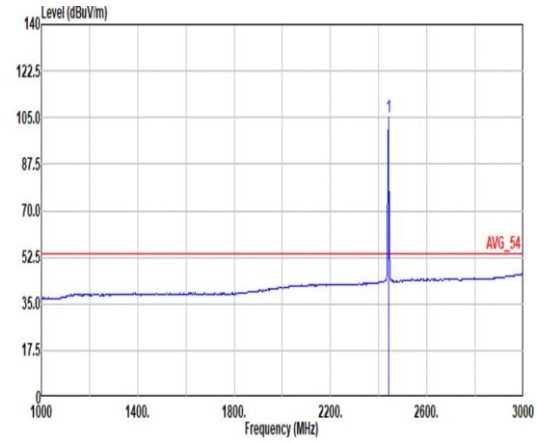
Mode	24	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2369.80 52.29 74.00 -21.71 43.07 27.40 6.58 34.79 10.03 400 261 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 102.89 ------ ------ 93.44 27.60 6.62 34.80 10.03 400 261 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2386.45 40.97 54.00 -13.03 31.71 27.43 6.60 34.80 10.03 400 261 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 102.34 ------ ------ 92.89 27.60 6.62 34.80 10.03 400 261 AVERAGE

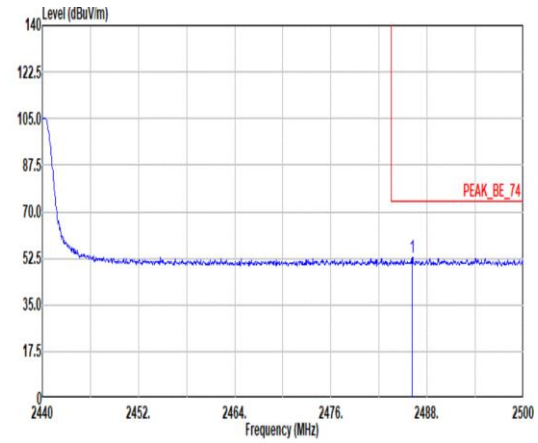
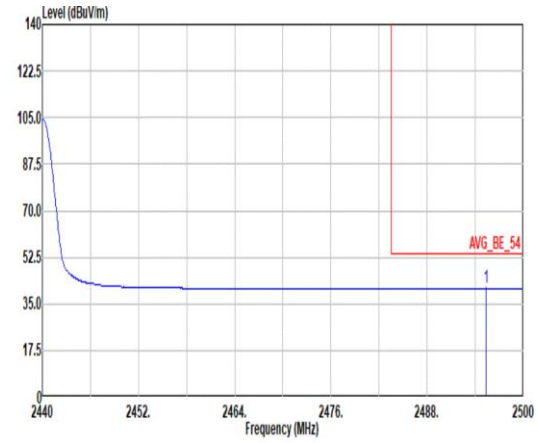
Mode	24	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 45.53 74.00 -28.47 69.11 32.52 10.56 67.08 0.42 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 47.62 74.00 -26.38 71.20 32.52 10.56 67.08 0.42 -- -- PEAK

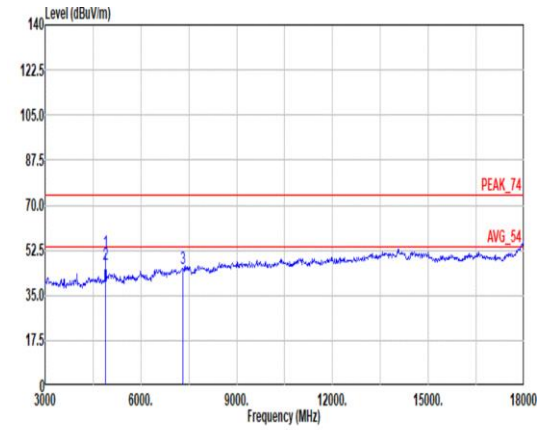
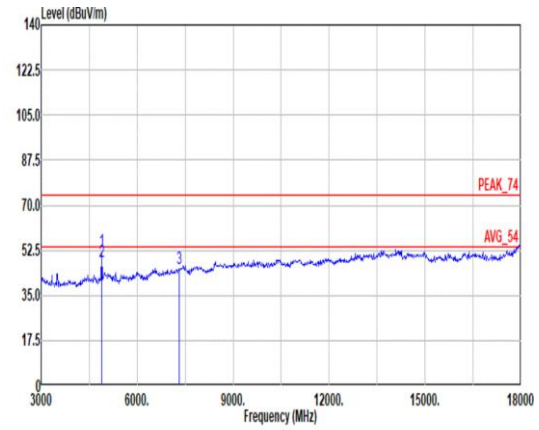
Mode	24	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

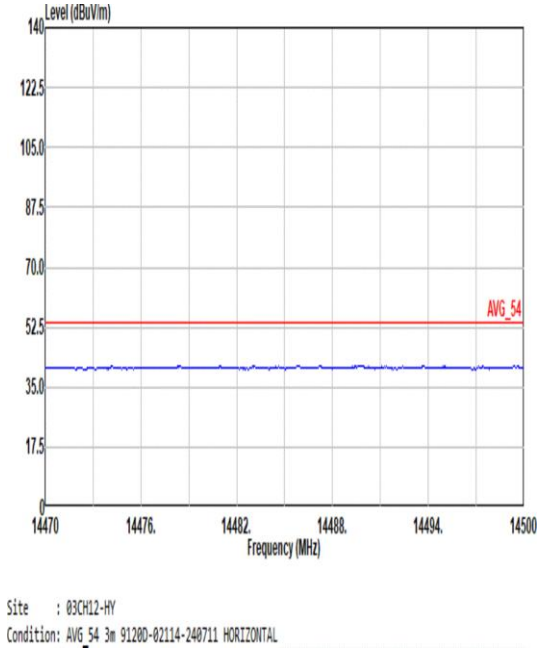
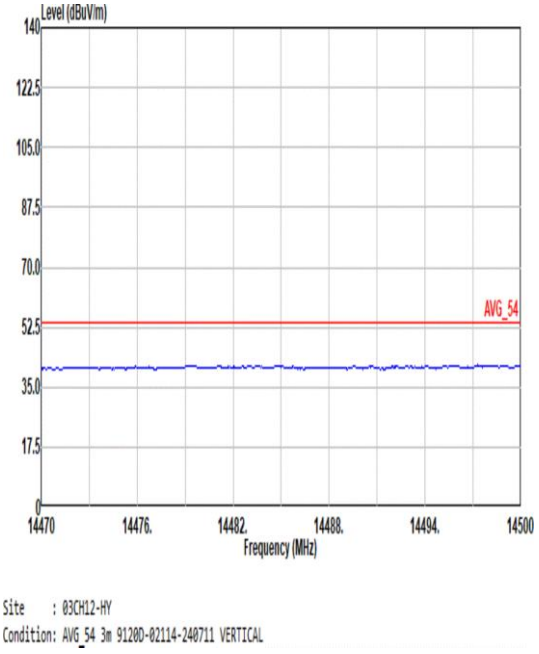
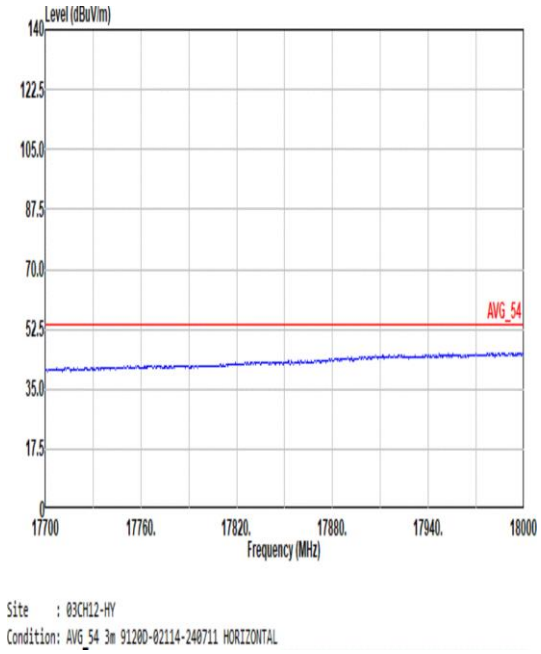
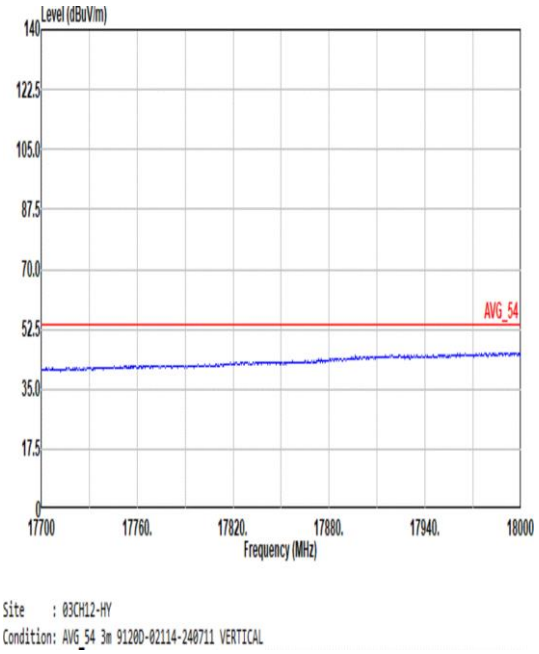
Mode	25	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2360.70 52.10 74.00 -21.90 42.89 27.40 6.57 34.79 10.03 117 344 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 108.98 ------ ------ 99.37 27.70 6.68 34.80 10.03 117 344 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2388.26 40.63 54.00 -13.37 31.33 27.47 6.60 34.80 10.03 117 344 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 108.44 ------ ------ 98.83 27.70 6.68 34.80 10.03 117 344 AVERAGE

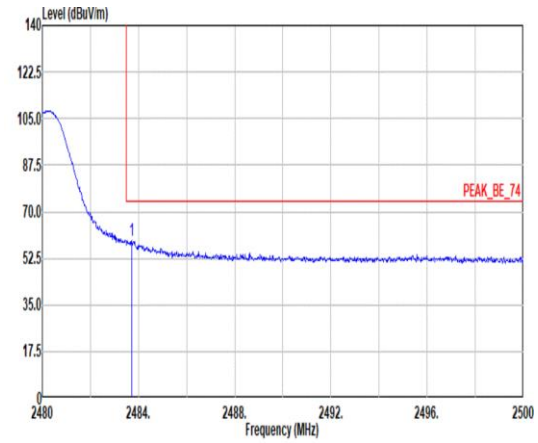
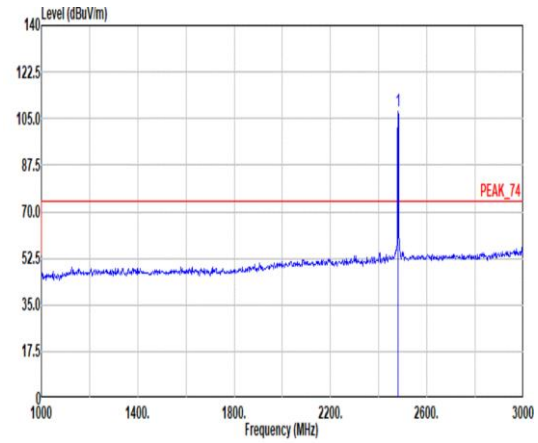
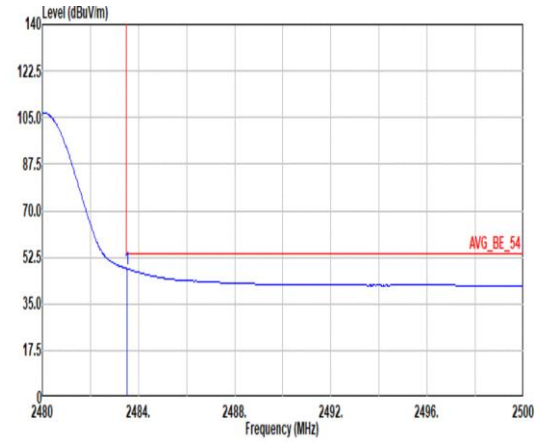
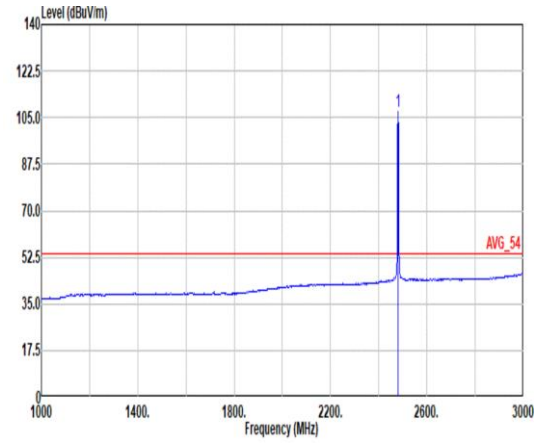
Mode	25	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2486.38 52.99 74.00 -21.01 43.05 27.96 6.75 34.80 10.03 117 344 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2494.84 41.20 54.00 -12.80 31.16 28.05 6.76 34.80 10.03 117 344 AVERAGE	Blank

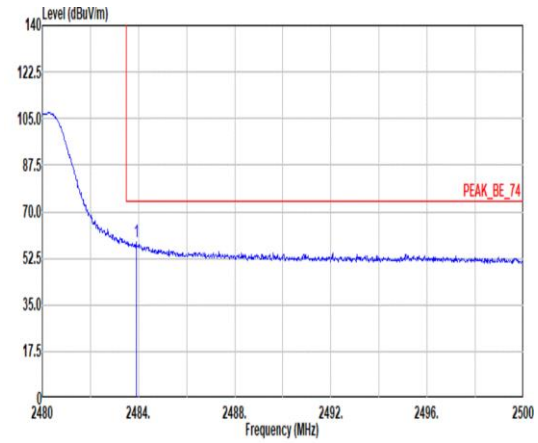
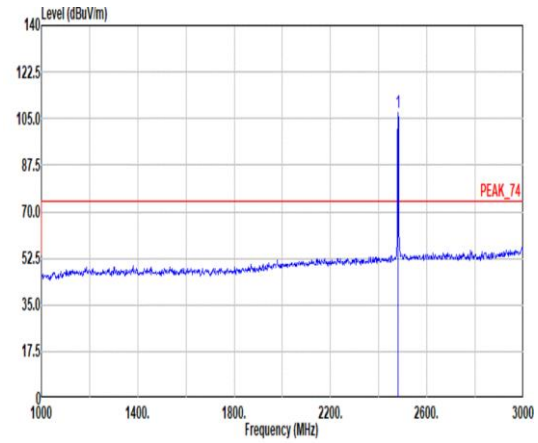
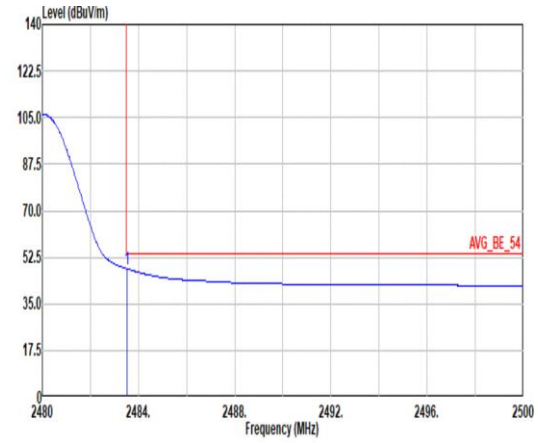
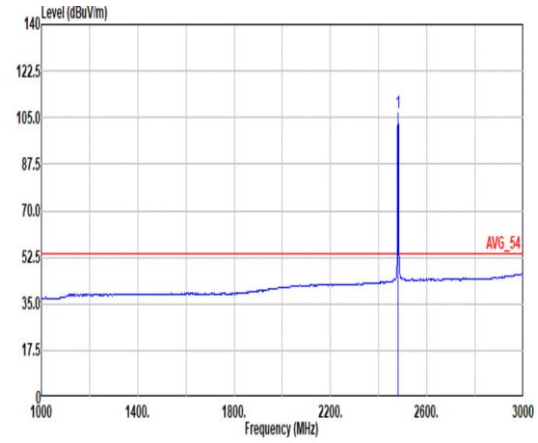
Mode	25	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2315.20 51.98 74.00 -22.02 42.93 27.30 6.51 34.79 10.03 400 88 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 105.53 ------ ------ 95.92 27.70 6.68 34.80 10.03 400 88 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.30 40.34 54.00 -13.66 31.01 27.49 6.61 34.80 10.03 400 88 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 104.97 ------ ------ 95.36 27.70 6.68 34.80 10.03 400 88 AVERAGE

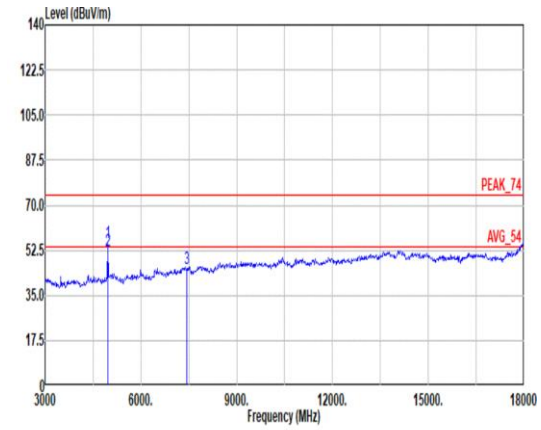
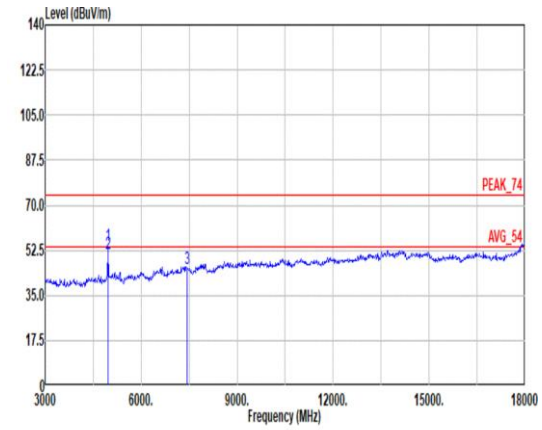
Mode	25	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2486.14 52.65 74.00 -21.35 42.71 27.96 6.75 34.80 10.03 400 88 PEAK	Blank
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2495.32 40.95 54.00 -13.05 30.91 28.05 6.76 34.80 10.03 400 88 AVERAGE	Blank

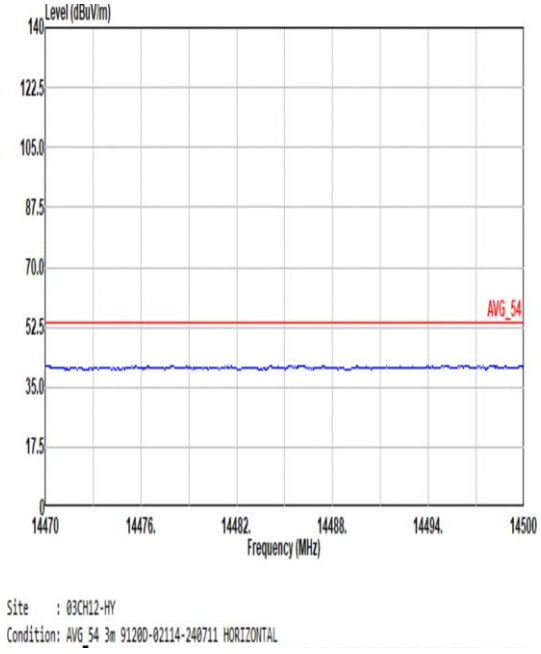
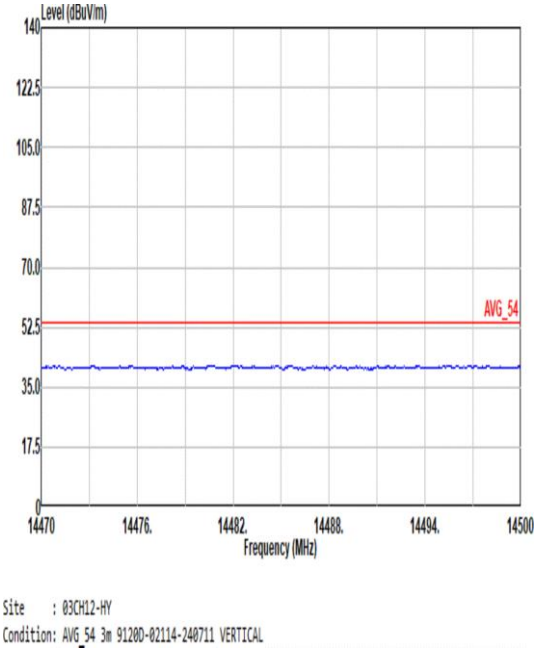
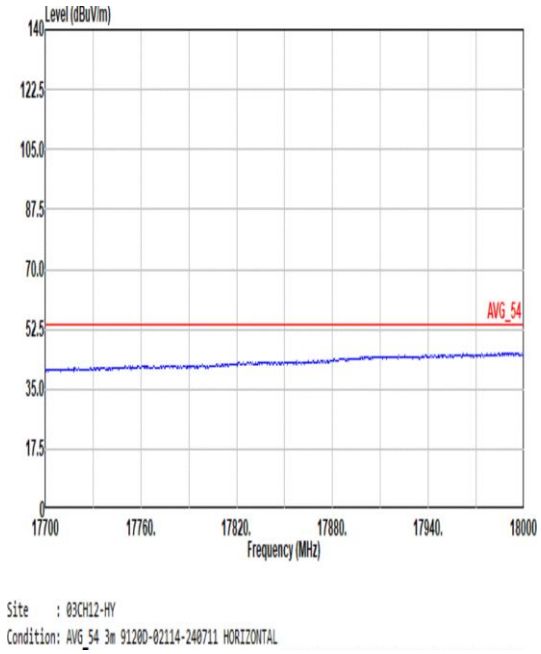
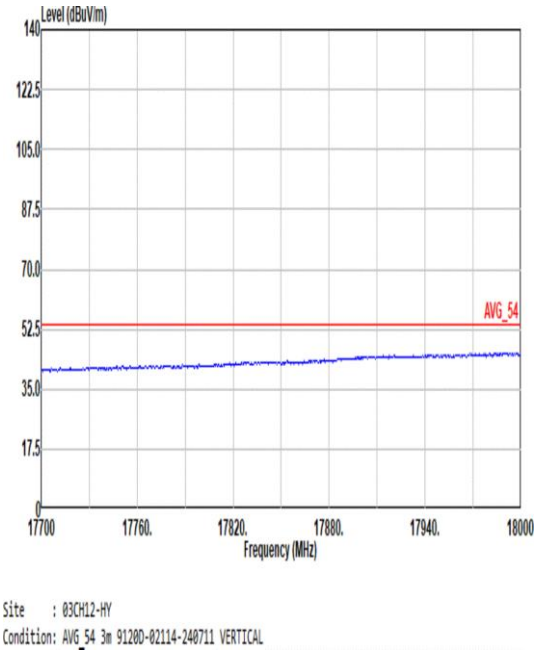
Mode	25	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 51.66 74.00 -22.34 74.89 32.86 10.46 66.99 0.44 100 146 PEAK 2 4880.00 47.14 54.00 -6.86 70.37 32.86 10.46 66.99 0.44 100 146 AVERAGE 3 7320.00 45.68 74.00 -28.32 61.10 37.08 13.20 66.04 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 52.44 74.00 -21.56 75.67 32.86 10.46 66.99 0.44 228 132 PEAK 2 4880.00 48.25 54.00 -5.75 71.48 32.86 10.46 66.99 0.44 228 132 AVERAGE 3 7320.00 45.19 74.00 -28.81 60.61 37.08 13.20 66.04 0.34 -- -- PEAK

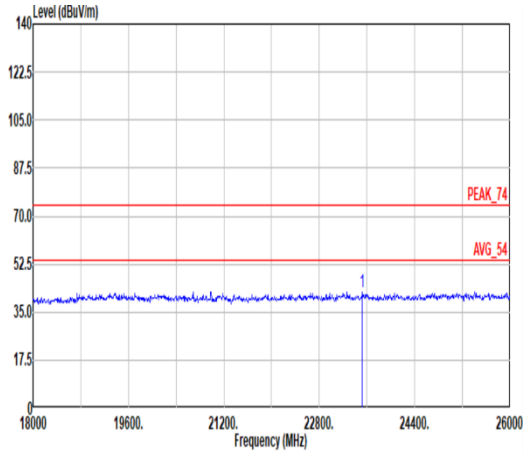
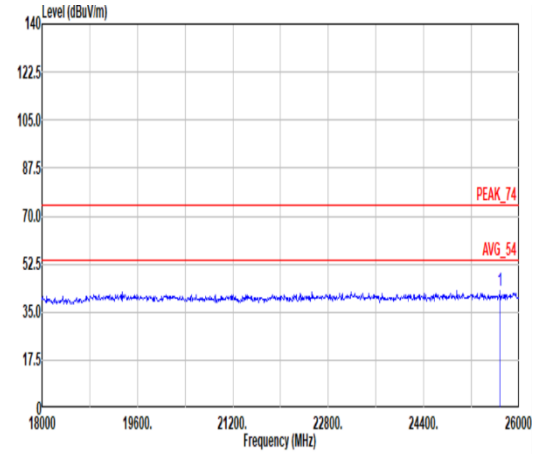
Mode	25	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

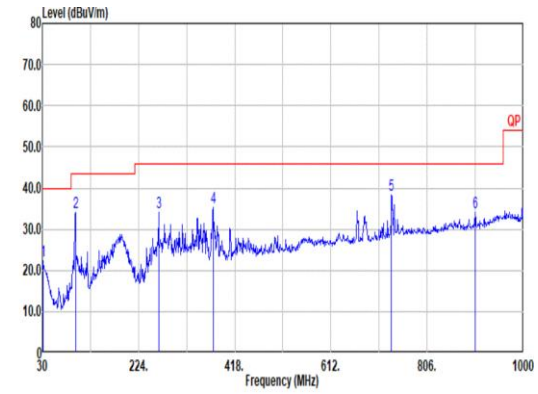
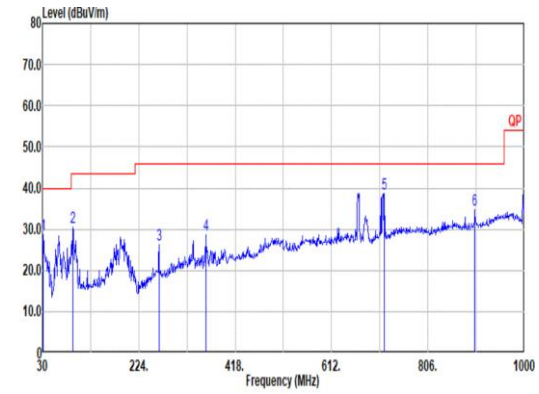
Mode	26	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.72 59.15 74.00 -14.85 49.23 27.94 6.75 34.80 10.03 119 340 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 107.95 ------ ------ 98.08 27.90 6.74 34.80 10.03 119 340 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 48.27 54.00 -5.73 38.35 27.94 6.75 34.80 10.03 119 340 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 107.37 ------ ------ 97.50 27.90 6.74 34.80 10.03 119 340 AVERAGE

Mode	26	
	Band Edge	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.90 58.84 74.00 -15.16 48.92 27.94 6.75 34.80 10.03 400 284 PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 107.29 ------ ------ 97.42 27.90 6.74 34.80 10.03 400 284 PEAK
Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 48.16 54.00 -5.84 38.24 27.94 6.75 34.80 10.03 400 284 AVERAGE	 Site : 03CH12-HY Condition: AVG_54 3m 9120D-02114-240711 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 106.74 ------ ------ 96.87 27.90 6.74 34.80 10.03 400 284 AVERAGE

Mode	26	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 55.57 74.00 -18.43 78.33 33.32 10.36 66.90 0.46 100 61 PEAK 2 4960.00 52.10 54.00 -1.90 74.86 33.32 10.36 66.90 0.46 100 61 Average 3 7440.00 45.51 74.00 -28.49 61.26 36.68 13.37 66.14 0.34 -- -- PEAK	 Site : 03CH12-HY Condition: PEAK_74 3m 9120D-02114-240711 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 54.48 74.00 -19.52 77.24 33.32 10.36 66.90 0.46 249 165 PEAK 2 4960.00 51.15 54.00 -2.85 73.91 33.32 10.36 66.90 0.46 249 165 Average 3 7440.00 45.62 74.00 -28.38 61.37 36.68 13.37 66.14 0.34 -- -- PEAK

Mode	26	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	27	
	SHF	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition: PEAK_74 1m SHF_1224_230710 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 23522.00 42.47 74.00 -31.53 52.30 38.79 22.90 61.98 -9.54 -- -- Peak	 Site : 03CH12-HY Condition: PEAK_74 1m SHF_1224_230710 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 25678.00 42.79 74.00 -31.21 50.83 39.01 24.25 61.76 -9.54 -- -- Peak

Mode	28	
	LF	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
QP/ Peak	 Site : 03CH12-HY Condition: QP 3m Bilog_37059_20241127 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.97 22.31 40.00 -17.69 27.06 24.21 0.76 29.77 0.05 -- -- Peak 2 96.93 34.13 43.50 -9.37 46.78 15.85 1.34 29.91 0.07 -- -- Peak 3 264.74 34.05 46.00 -11.95 41.33 19.99 2.21 29.63 0.15 -- -- Peak 4 374.35 35.28 46.00 -10.72 40.83 21.16 2.62 29.48 0.15 -- -- Peak 5 734.22 38.46 46.00 -7.54 35.34 28.07 3.68 28.96 0.33 -- -- Peak 6 903.00 34.06 46.00 -11.94 28.83 29.31 4.07 28.50 0.35 -- -- Peak	 Site : 03CH12-HY Condition: QP 3m Bilog_37059_20241127 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.97 28.68 40.00 -11.32 33.43 24.21 0.76 29.77 0.05 -- -- Peak 2 91.11 30.59 43.50 -12.91 44.00 15.14 1.29 29.91 0.07 -- -- Peak 3 264.74 26.17 46.00 -19.83 33.45 19.99 2.21 29.63 0.15 -- -- Peak 4 358.83 28.59 46.00 -17.41 34.59 20.82 2.54 29.51 0.15 -- -- Peak 5 718.70 38.65 46.00 -7.35 36.34 27.33 3.65 28.98 0.31 -- -- Peak 6 900.09 34.73 46.00 -11.27 29.58 29.26 4.06 28.51 0.34 -- -- Peak

Appendix D. Duty Cycle Plots

<5dBm>

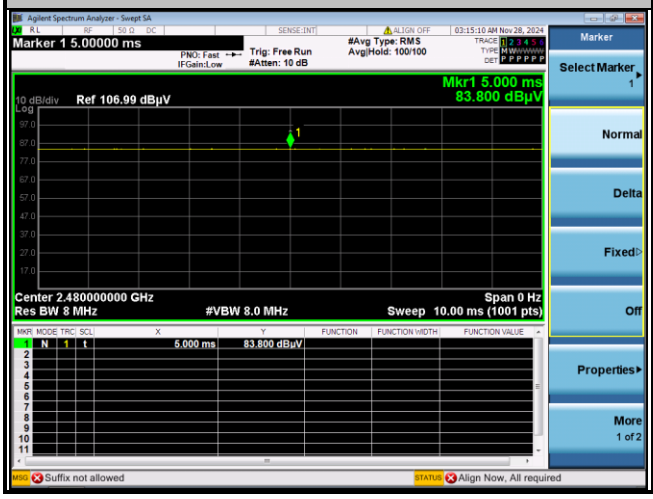
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 1Mbps	100.00	-	-	10Hz
Bluetooth - LE for 2Mbps	100.00	-	-	10Hz
Bluetooth - LE for 125kbps	100.00	-	-	10Hz
Bluetooth - LE for 500kbps	100.00	-	-	10Hz

<10dBm>

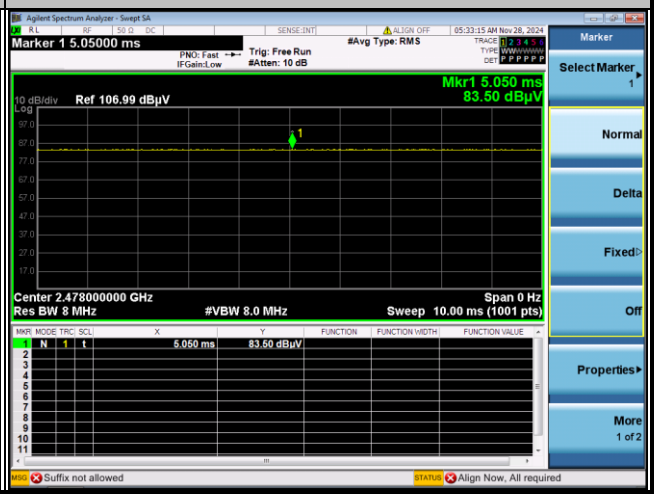
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 1Mbps	100.00	-	-	10Hz
Bluetooth - LE for 2Mbps	100.00	-	-	10Hz
Bluetooth - LE for 125kbps	100.00	-	-	10Hz
Bluetooth - LE for 500kbps	100.00	-	-	10Hz

<5dBm>

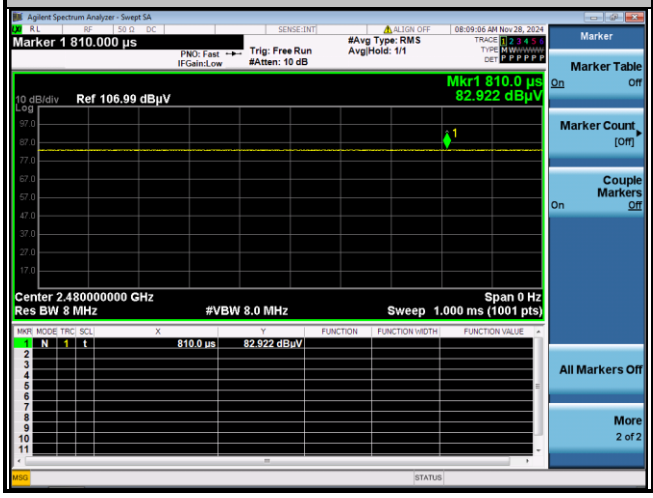
Bluetooth - LE for 1Mbps



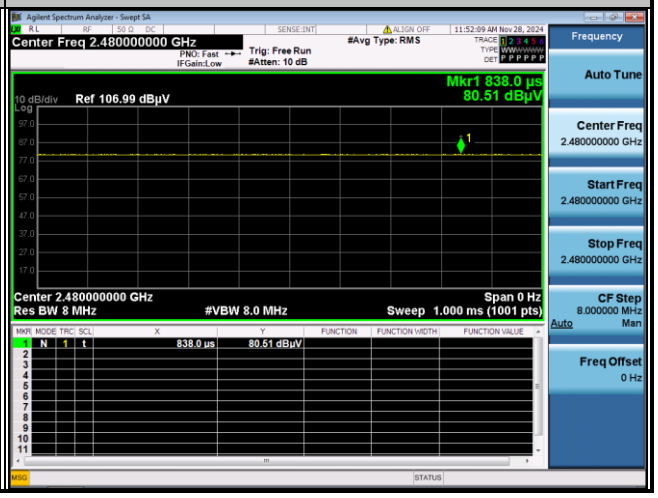
Bluetooth - LE for 2Mbps



Bluetooth - LE for 125kbps

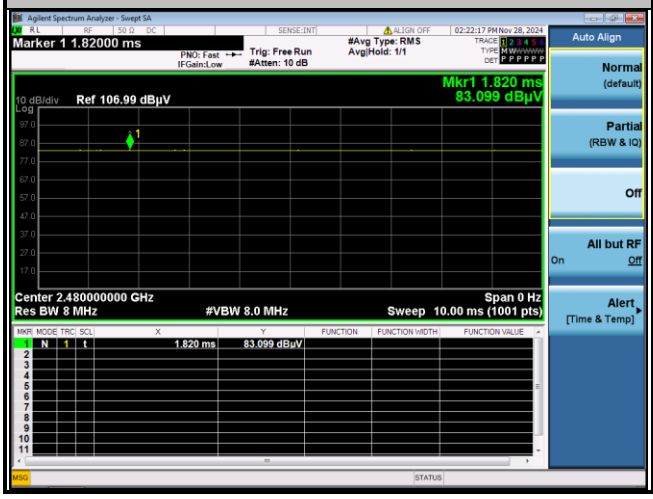


Bluetooth - LE for 500kbps

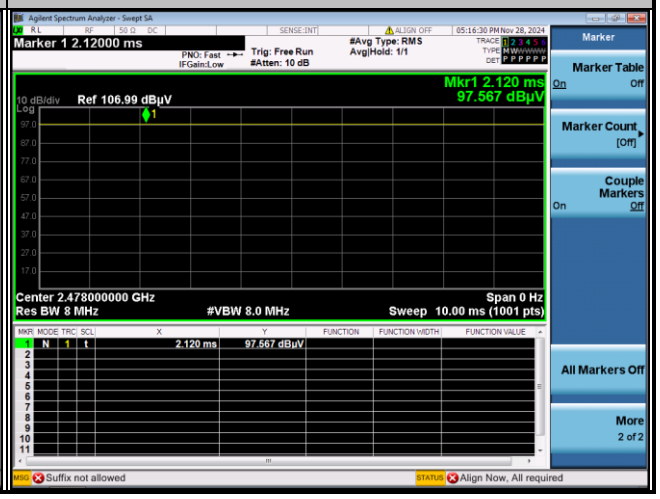


<10dBm>

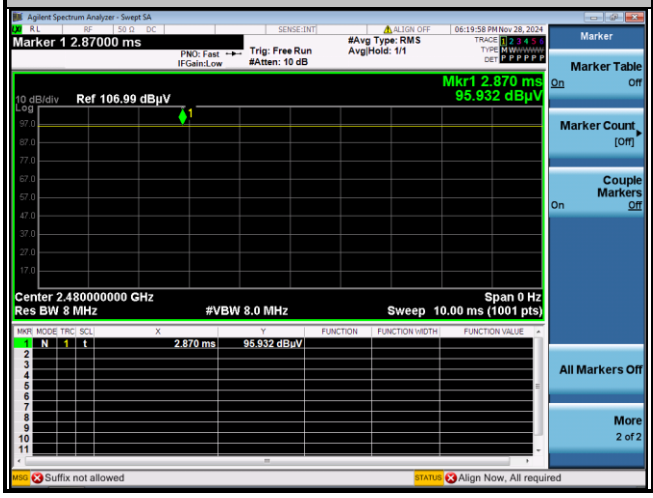
Bluetooth - LE for 1Mbps



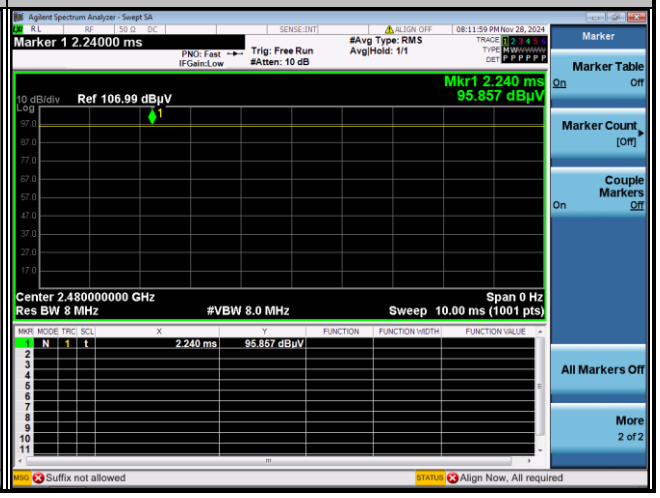
Bluetooth - LE for 2Mbps



Bluetooth - LE for 125kbps



Bluetooth - LE for 500kbps

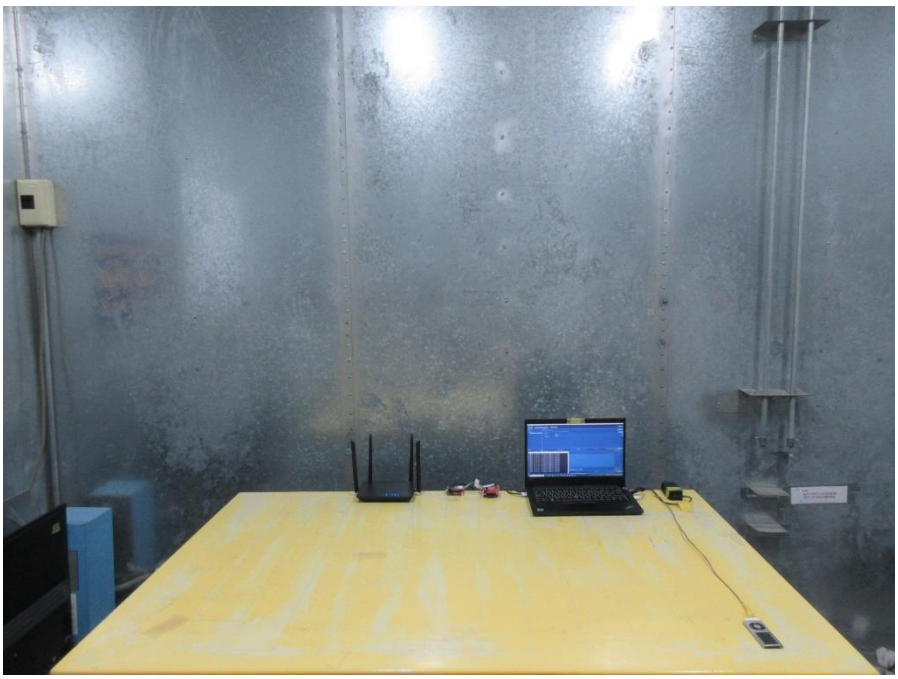


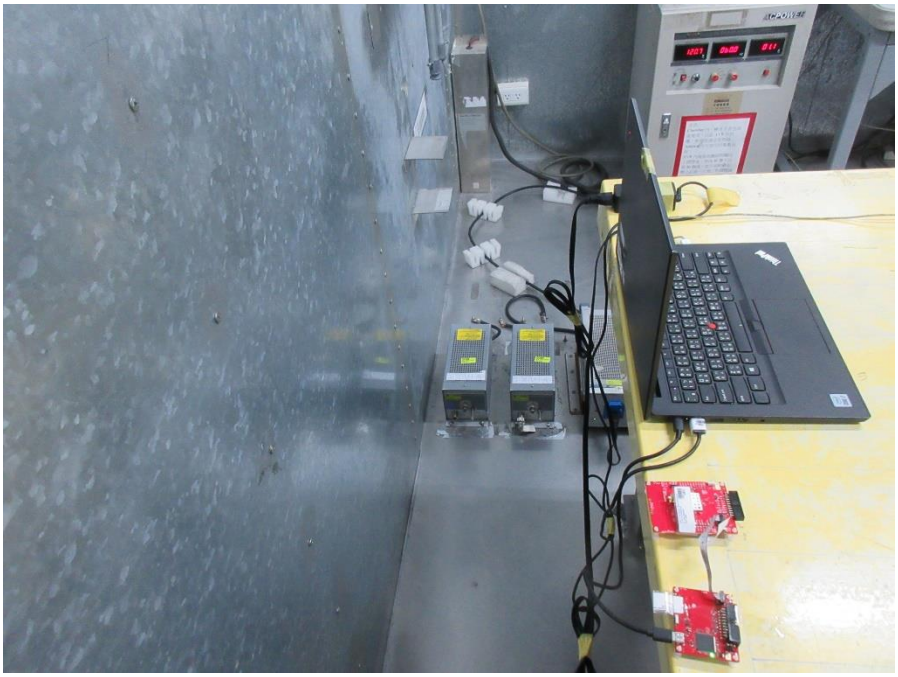
Appendix E. Setup Photographs

<Conducted Emission>

Mode 1

Remote View



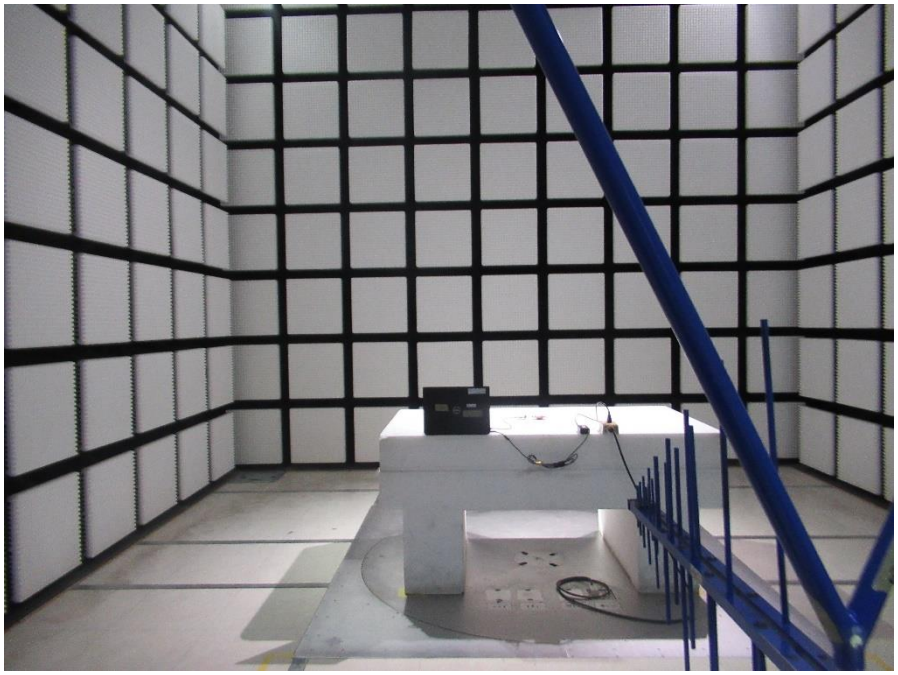


Rear View

<Radiated Emission>

X Plane

LF



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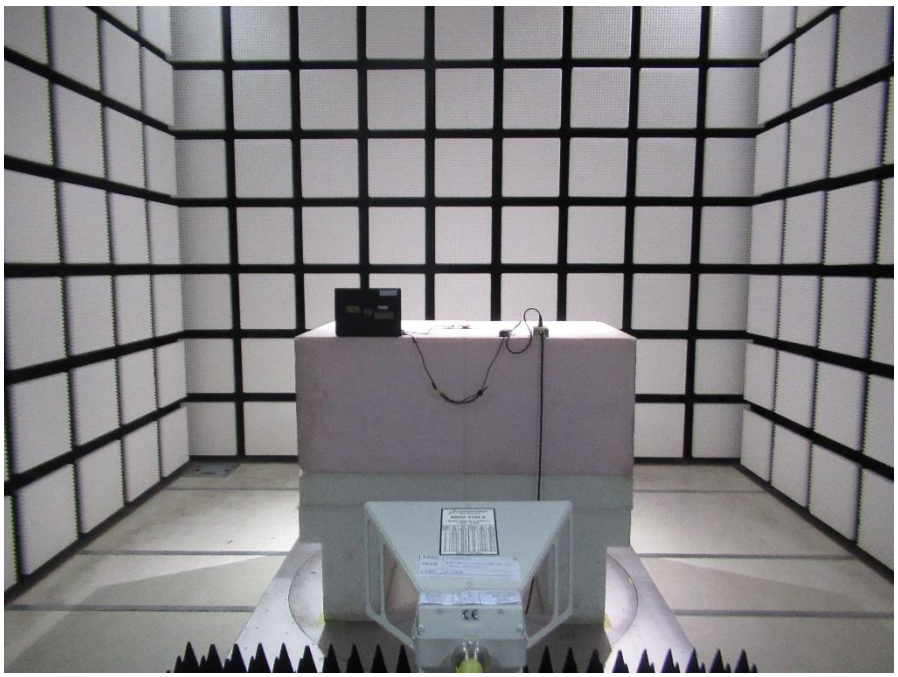

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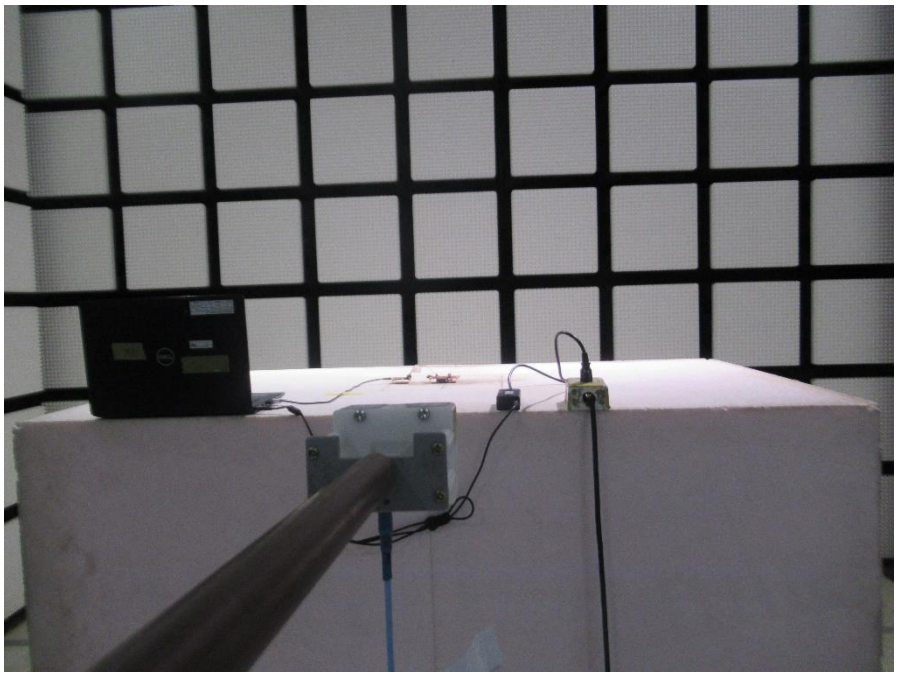

Y Plane

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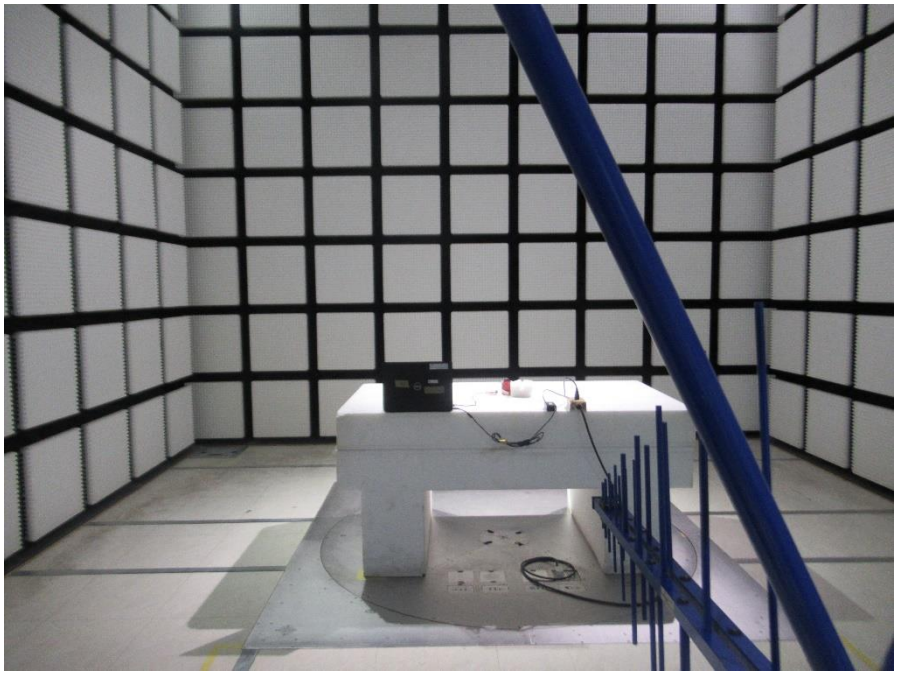

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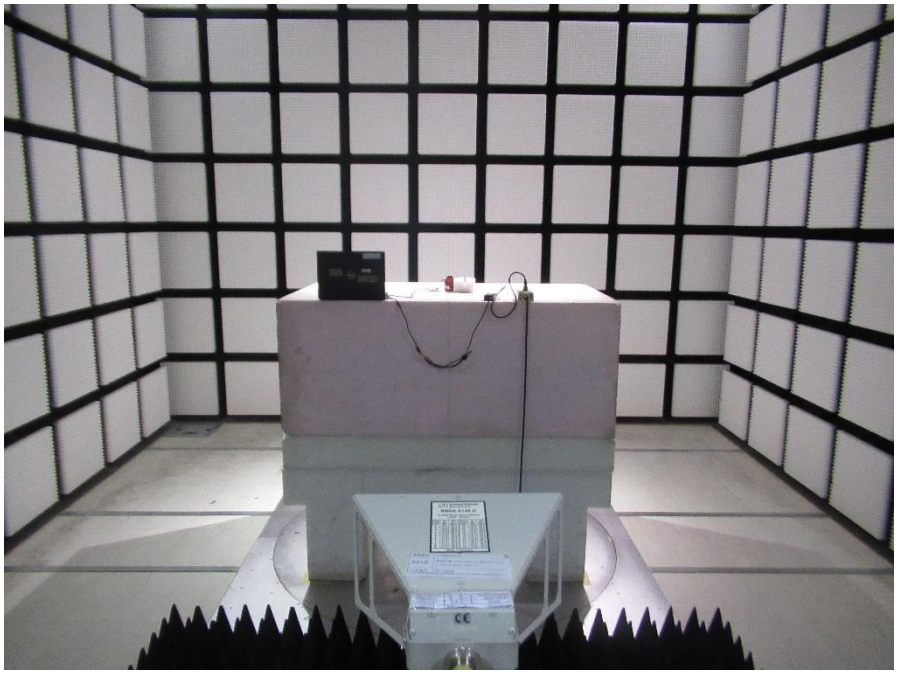

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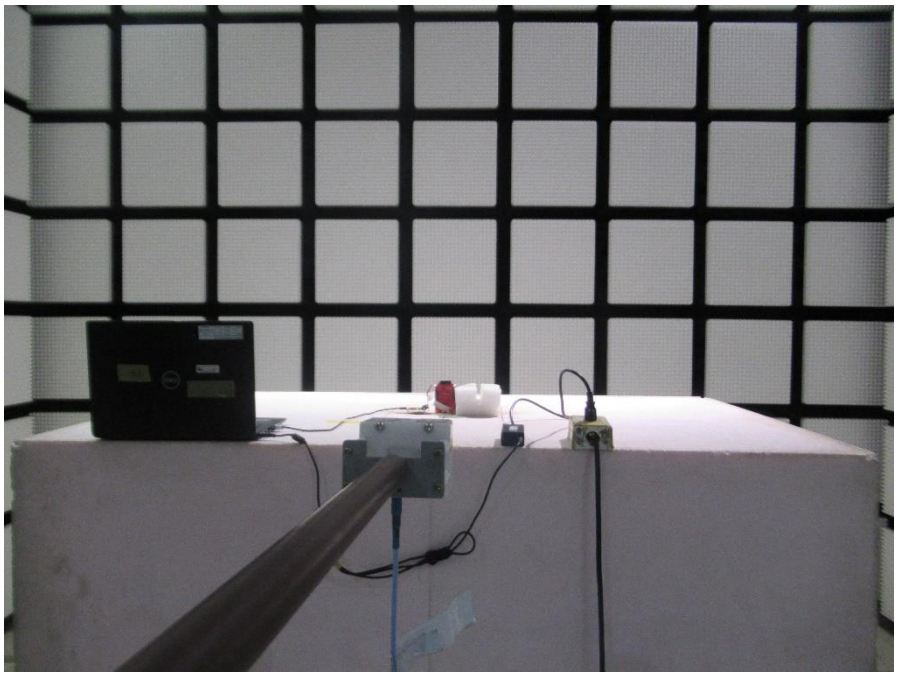

Z Plane

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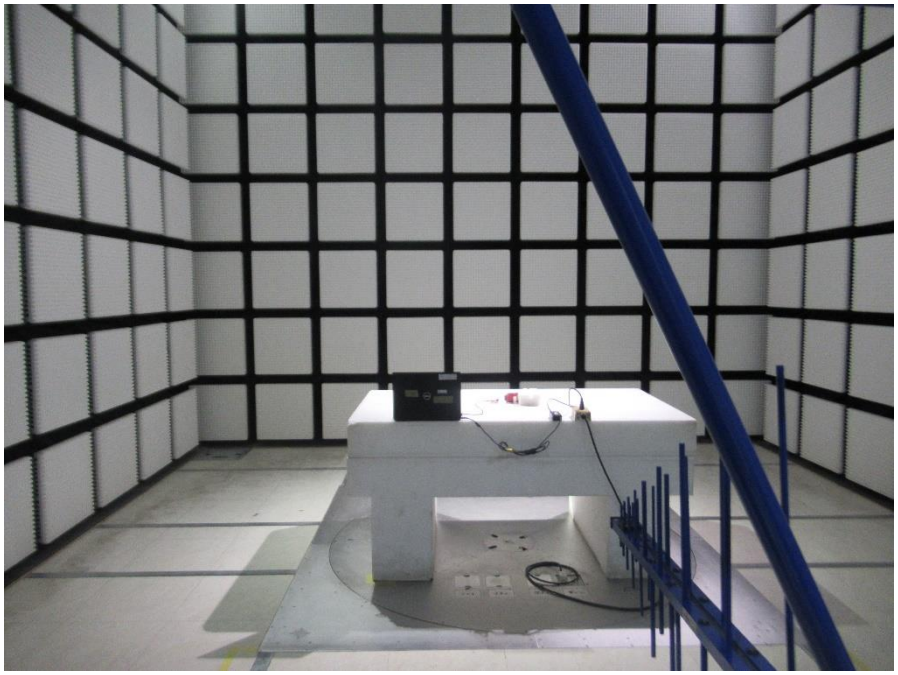

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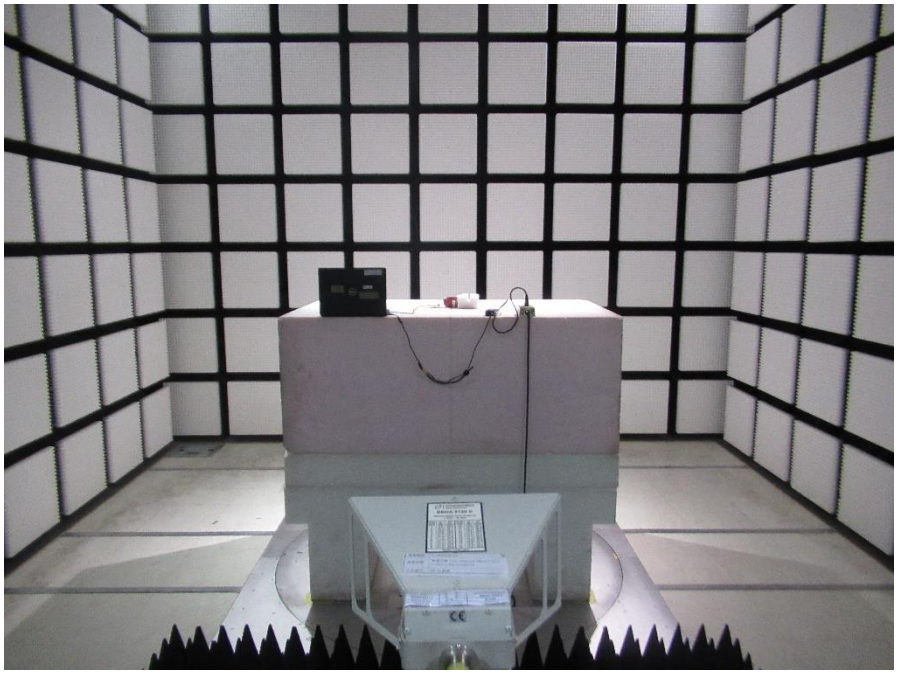

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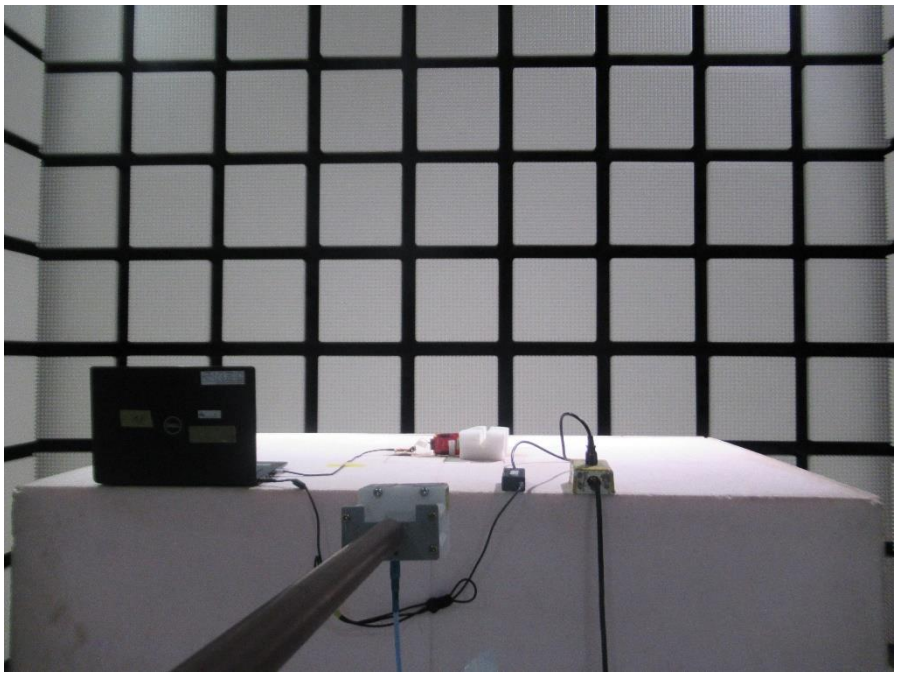

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