FCC RADIO TEST REPORT

FCC ID	:	**HLZA24007**
Equipment	:	**Tablet PC**
Brand Name	:	**acer**
Model Name	:	**A24007**
Marketing Name	:	**Acer Iconia V10, V10-21**
Applicant	:	**Acer Incorporated** **8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22181, Taiwan (R.O.C)**
Manufacturer	:	**Acer Incorporated** **8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22181, Taiwan (R.O.C)**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on Aug. 20, 2024 and testing was performed from Aug. 30, 2024 to Sep. 20, 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
FR482028B	01	Initial issue of report	Oct. 11, 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	6.47 dB under the limit at 45.52 MHz
3.6	15.207	AC Conducted Emission	Pass	18.05 dB under the limit at 0.20 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: Wei Chen

Report Producer: Wilda Wei

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, and GNSS. **Antenna Type** WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass / BDS / Galileo: PIFA Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	-0.45

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

SKU List				
Model	**SKU1_4G+64G**	**SKU2_4G+64G**	**SKU3_4G+128G**	**SKU4_4G+128G**
RAM	Shenzhen Longsys Electronics Co., Ltd. MLXC4004G-W6	SHENZHEN GCAIELECTRONICTECHNOLOGY Co., Ltd. GD84D32MJ0-42C2	Shenzhen Longsys Electronics Co., Ltd. MLXC4004G-W6	SHENZHEN GCAIELECTRONICTECHNOLOGY Co., Ltd. GD84D32MJ0-42C2
ROM	Shenzhen Longsys Electronics Co., Ltd. FEMDNN064G-A3A55	Shenzhen Techwinsemi Technology Co., Ltd. UEMCGS63S0	Shenzhen Longsys Electronics Co., Ltd. FEMDNN128G-A3V01	Shenzhen Techwinsemi Technology Co., Ltd. UEMDGS63S0
Front Camera	SHENZHEN KE YI TAI ELECTRONIC Co., Ltd. GC05A2 5M	Shenzhen Hongyou Electrionic Technology Co., Ltd. GC05A2 5M	SHENZHEN KE YI TAI ELECTRONIC Co., Ltd. GC05A2 5M	Shenzhen Hongyou Electrionic Technology Co., Ltd. GC05A2 5M
Rear Camera	SHENZHEN KE YI TAI ELECTRONIC Co., Ltd. S5K4H8 8M	Shenzhen Hongyou Electrionic Technology Co., Ltd. S5K4H8 8M	SHENZHEN KE YI TAI ELECTRONIC Co., Ltd. S5K4H8 8M	Shenzhen Hongyou Electrionic Technology Co., Ltd. S5K4H8 8M

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

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, CO07-HY, 03CH20-HY

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

FCC designation No.: 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.

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

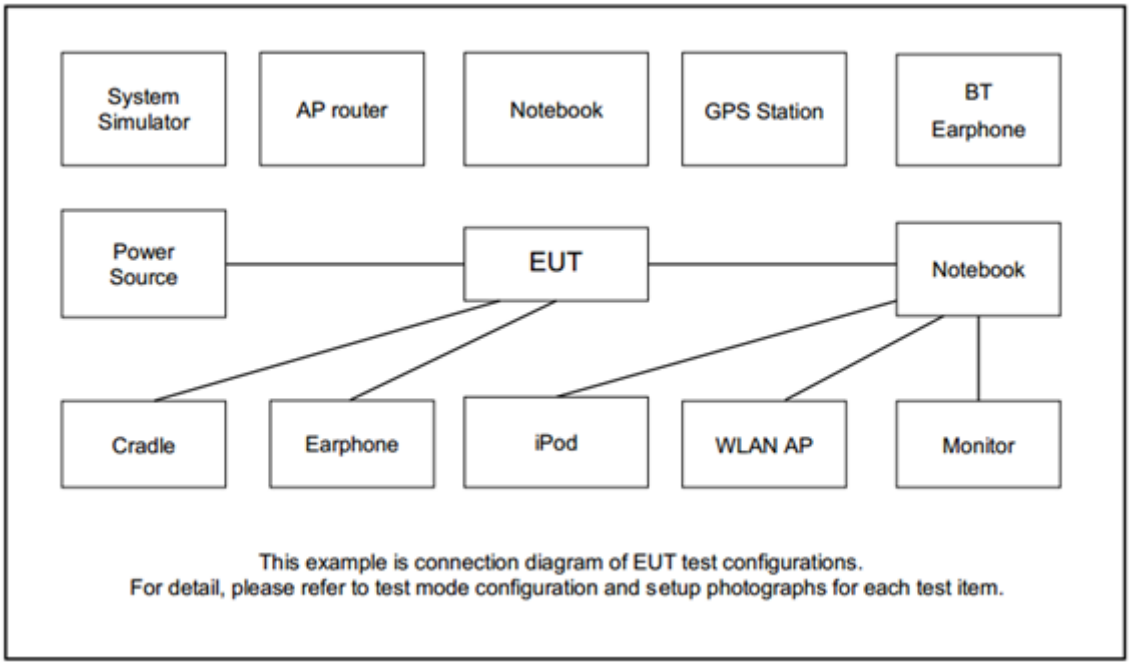
a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental 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**
	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
Radiated Test Cases	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
AC Conducted Emission	Mode 1: WLAN (2.4GHz) Link + Bluetooth Link + USB Cable (Charging from AC Adapter) + Battery for SKU4_4G+128G
Remark: 1. For Radiated Test Cases, the tests were performed with SKU4_4G+128G. 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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	Netgear	RAXE500	PY320300508	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Earphone	MOTO	JYN1181B	N/A	N/A	Unshielded, 1.2 m

2.5 EUT Operation Test Setup

The RF test items, make the EUT (SW: Acer_AV0U0_M10-21_RV00RB01_PAPAP_GEN1) 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.

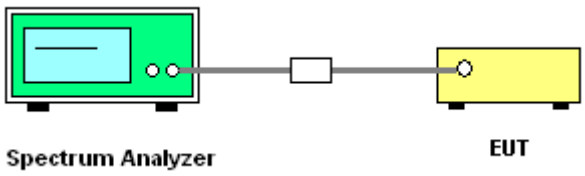
3.1.2 Measuring Instruments

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.

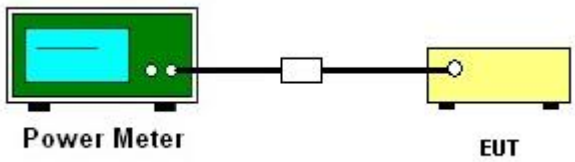
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

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 30 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

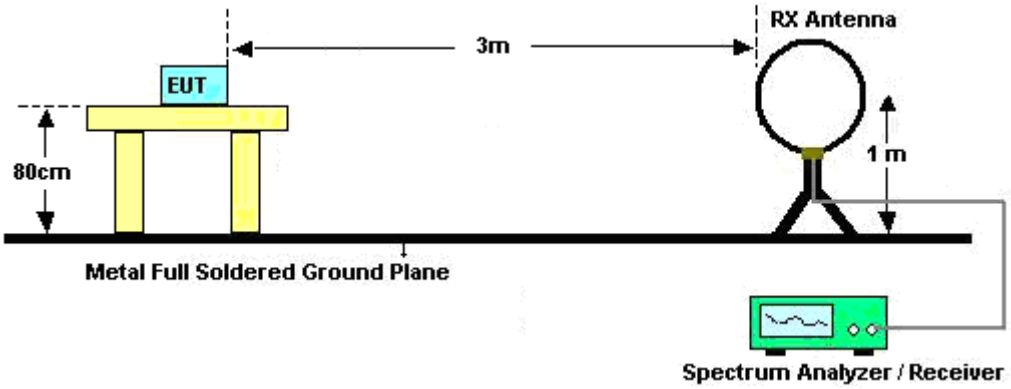
Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

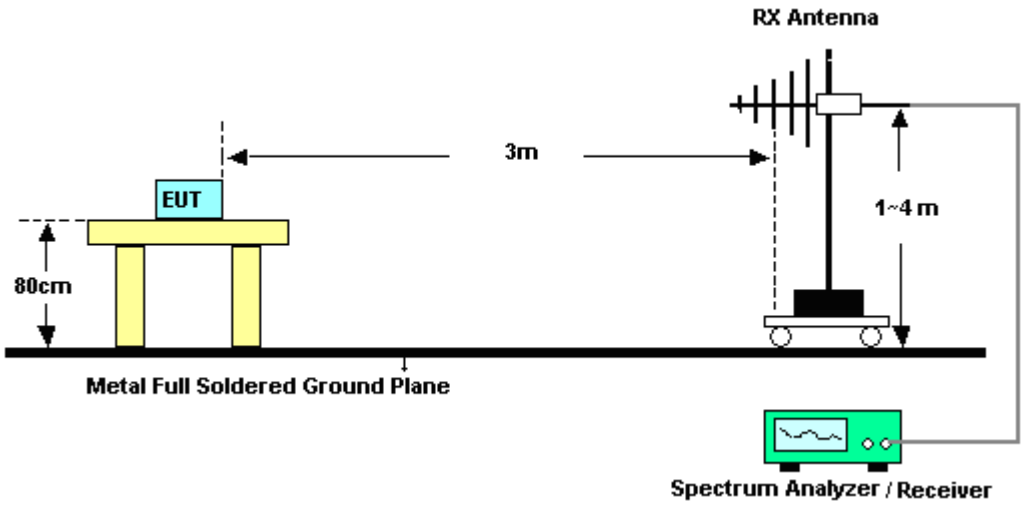
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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

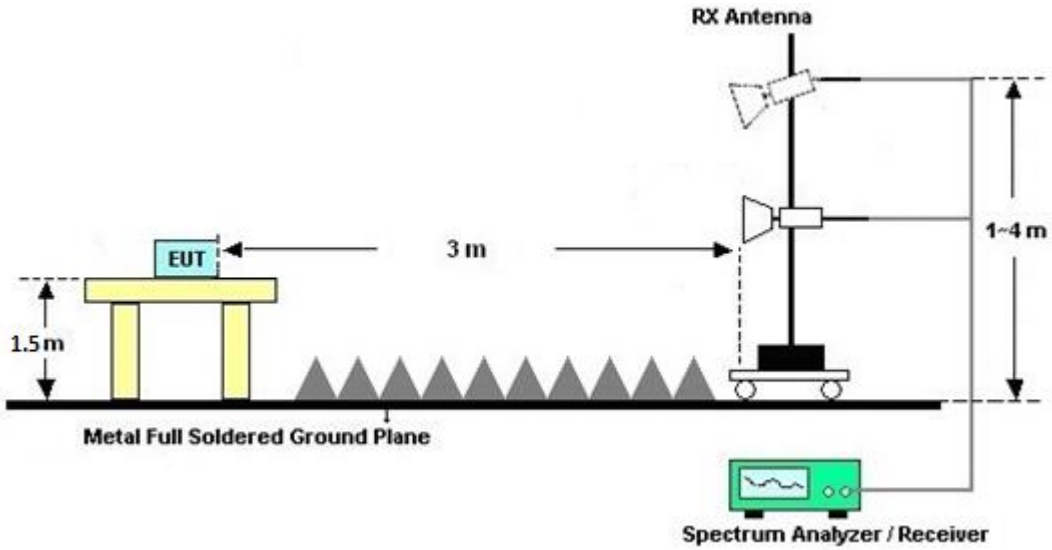
For radiated test below 30MHz



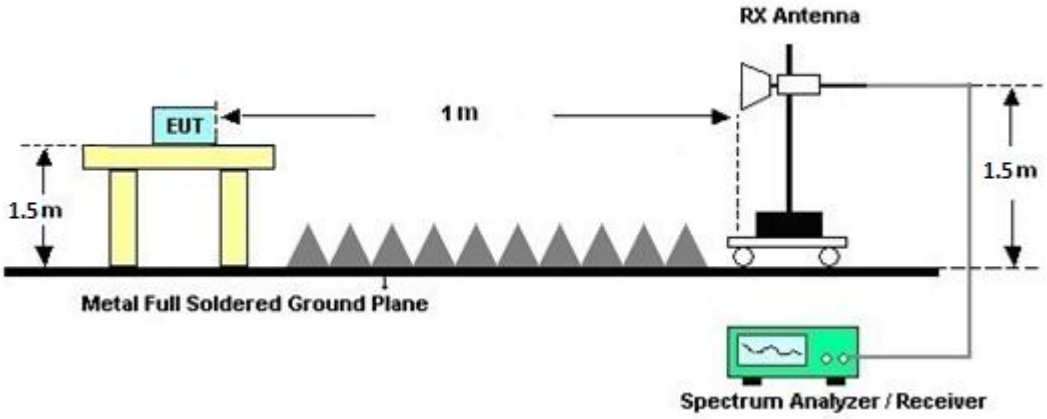
For radiated test from 30MHz to 1GHz



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.

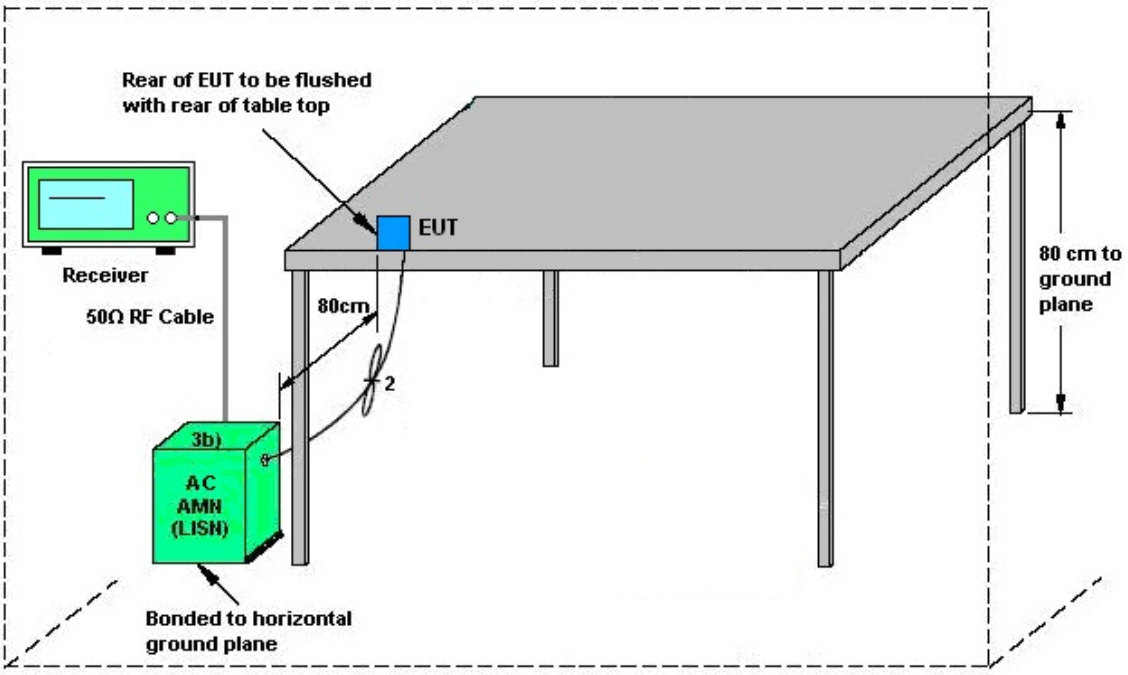
3.6.2 Measuring Instruments

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
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 06, 2023	Sep. 14, 2024~ Sep. 20, 2024	Oct. 05, 2024	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Sep. 14, 2024~ Sep. 20, 2024	Aug. 28, 2025	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Sep. 14, 2024~ Sep. 20, 2024	May 26, 2025	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Sep. 14, 2024~ Sep. 20, 2024	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 14, 2024~ Sep. 20, 2024	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 14, 2024~ Sep. 20, 2024	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 12, 2023	Sep. 14, 2024~ Sep. 20, 2024	Dec. 11, 2024	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N1 D01N-06	55606 & 08	30MHz~1GHz	Oct. 20, 2023	Sep. 14, 2024~ Sep. 20, 2024	Oct. 19, 2024	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Oct. 30, 2023	Sep. 14, 2024~ Sep. 20, 2024	Oct. 29, 2024	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1224	18GHz-40GHz	Jun. 24, 2024	Sep. 14, 2024~ Sep. 20, 2024	Jun. 23, 2025	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 01, 2024	Sep. 14, 2024~ Sep. 20, 2024	Dec. 31, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 13, 2023	Sep. 14, 2024~ Sep. 20, 2024	Nov. 12, 2024	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 17, 2024	Sep. 14, 2024~ Sep. 20, 2024	Jan. 16, 2025	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 27, 2024	Sep. 14, 2024~ Sep. 20, 2024	Mar. 26, 2025	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Sep. 14, 2024~ Sep. 20, 2024	N/A	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Aug. 30, 2024~ Sep. 04, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 35 (NO:109)	10MHz~6GHz	Jan. 15, 2024	Aug. 30, 2024~ Sep. 04, 2024	Jan. 14, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz~40GHz	Dec. 19, 2023	Aug. 30, 2024~ Sep. 04, 2024	Dec. 18, 2024	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Aug. 30, 2024~ Sep. 04, 2024	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ve rsion_240513	N/A	Conducted Other Test Item	N/A	Aug. 30, 2024~ Sep. 04, 2024	N/A	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Sep. 06, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 06, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Sep. 06, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Sep. 06, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Sep. 06, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Sep. 06, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Sep. 06, 2024	Sep. 19, 2024	Conduction (CO07-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))	**3.44 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.40 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.50 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.60 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.40 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2024/08/30~2024/09/04	Relative Humidity:	51~54	%

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	1.035	0.684	0.50	Pass
BLE	1Mbps	1	19	2440	1.037	0.694	0.50	Pass
BLE	1Mbps	1	39	2480	1.035	0.692	0.50	Pass

TEST RESULTS DATA
Average Power Table

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
BLE	1Mbps	1	0	2402	-3.00	30.00	-0.45	-3.45	36.00	Pass
BLE	1Mbps	1	19	2440	-2.90	30.00	-0.45	-3.35	36.00	Pass
BLE	1Mbps	1	39	2480	-2.60	30.00	-0.45	-3.05	36.00	Pass

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	-4.27	-18.61	-0.45	8.00	Pass
BLE	1Mbps	1	19	2440	-4.29	-18.63	-0.45	8.00	Pass
BLE	1Mbps	1	39	2480	-3.85	-18.09	-0.45	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

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	2.074	1.156	0.50	Pass
BLE	2Mbps	1	19	2440	2.074	1.592	0.50	Pass
BLE	2Mbps	1	38	2478	2.074	1.154	0.50	Pass

TEST RESULTS DATA
Average Power Table

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
BLE	2Mbps	1	1	2404	-2.90	30.00	-0.45	-3.35	36.00	Pass
BLE	2Mbps	1	19	2440	-2.80	30.00	-0.45	-3.25	36.00	Pass
BLE	2Mbps	1	38	2478	-2.40	30.00	-0.45	-2.85	36.00	Pass

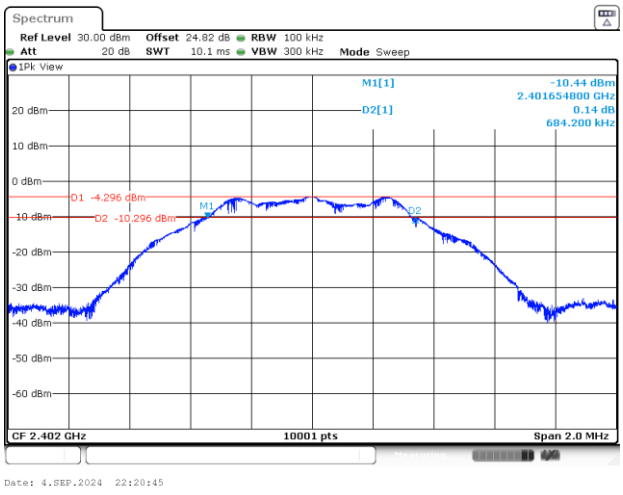
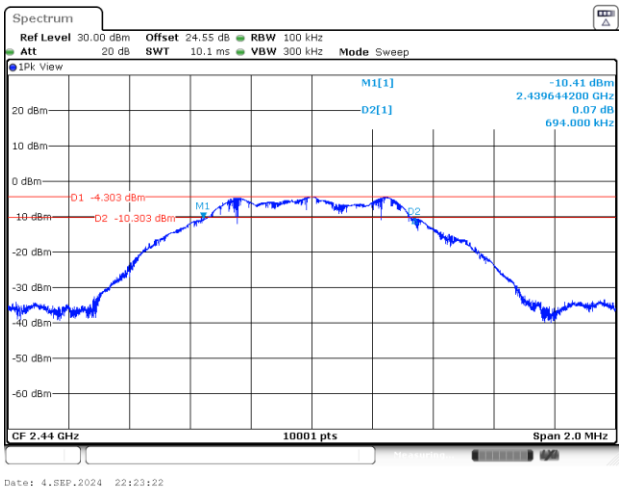
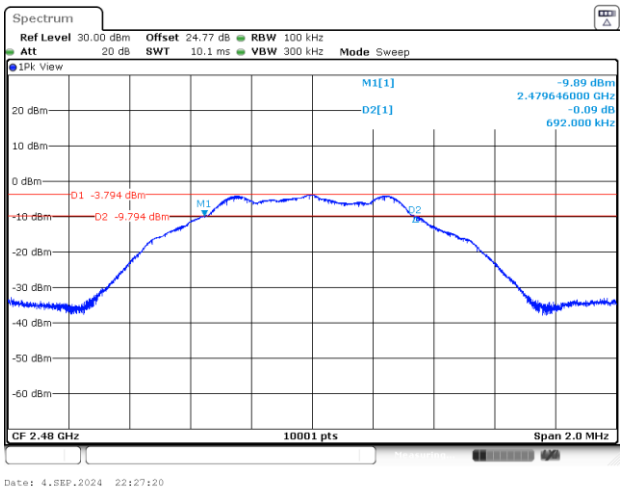
TEST RESULTS DATA
Peak Power Density

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	-3.97	-20.86	-0.45	8.00	Pass
BLE	2Mbps	1	19	2440	-4.36	-21.26	-0.45	8.00	Pass
BLE	2Mbps	1	38	2478	-3.66	-20.54	-0.45	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

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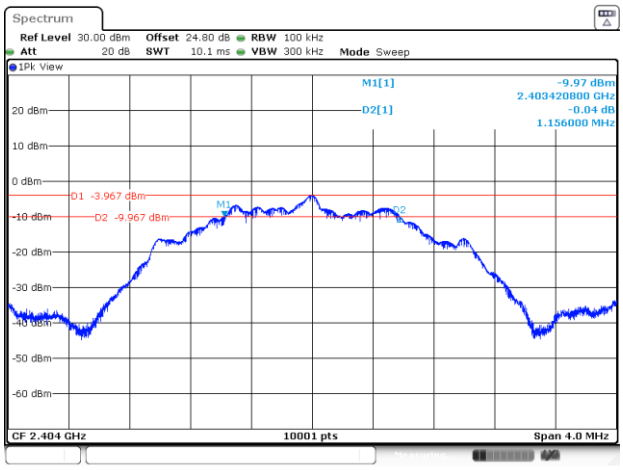
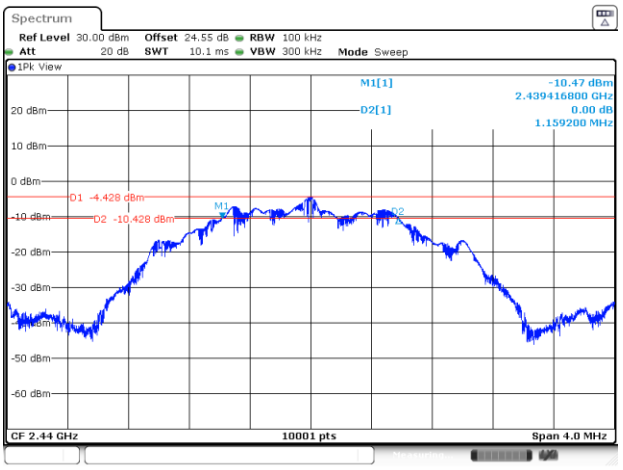
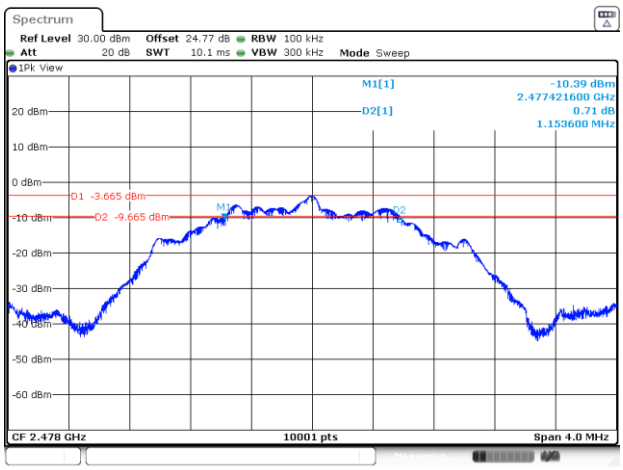
6 dB Bandwidth Plot on Channel 01	6 dB Bandwidth Plot on Channel 19
	
6 dB Bandwidth Plot on Channel 38	
	

99% Occupied Bandwidth

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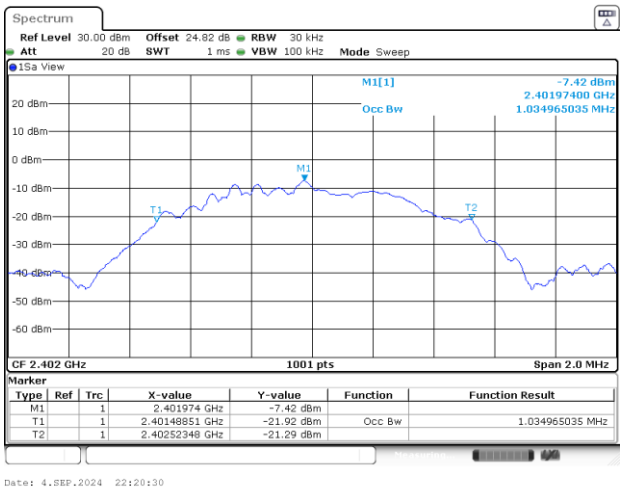
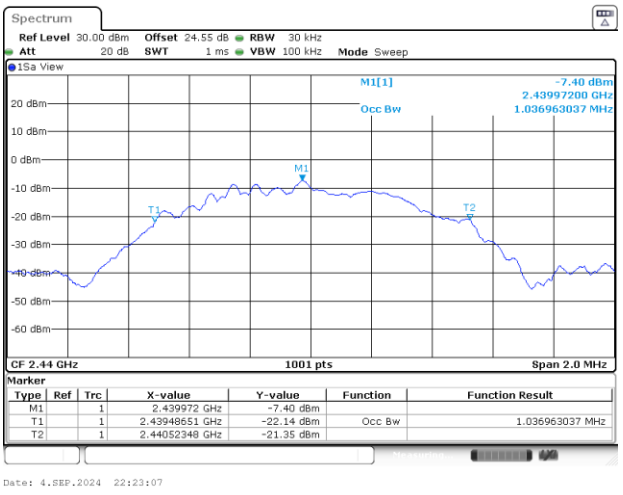
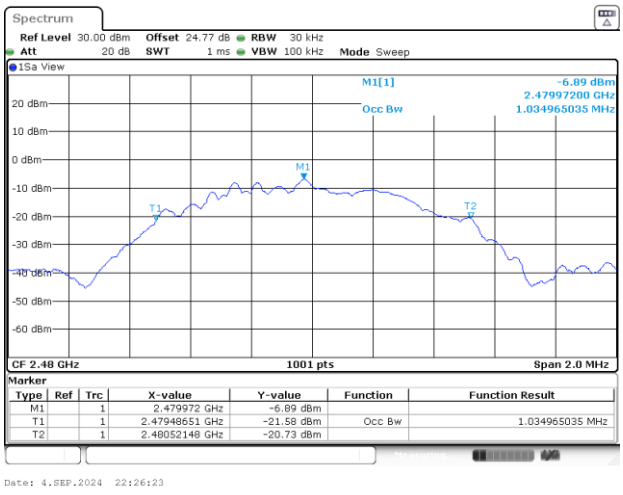
99% Occupied Bandwidth Plot on Channel 00	99% Occupied Bandwidth Plot on Channel 19
	
99% Occupied Bandwidth Plot on Channel 39	
	

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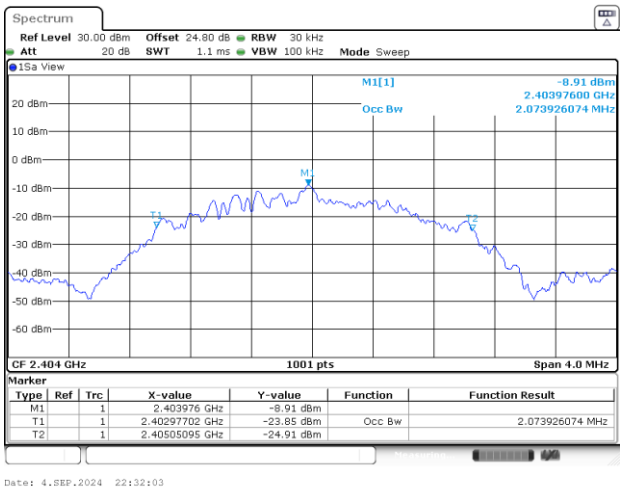
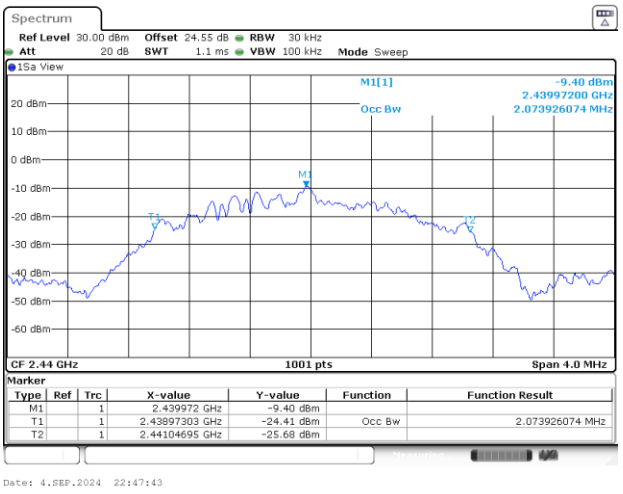
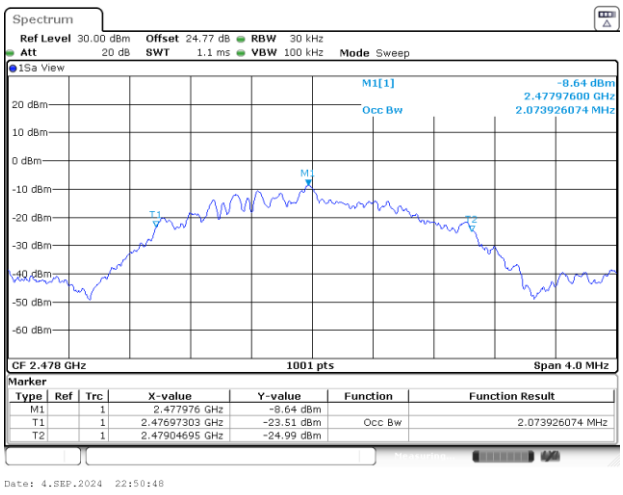
99% Occupied Bandwidth Plot on Channel 01	99% Occupied Bandwidth Plot on Channel 19
	
99% Occupied Bandwidth Plot on Channel 38	
	

Power Spectral Density (dBm/3kHz)

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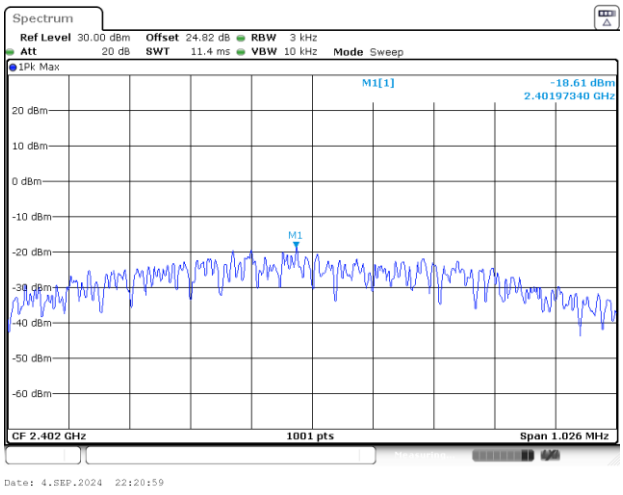
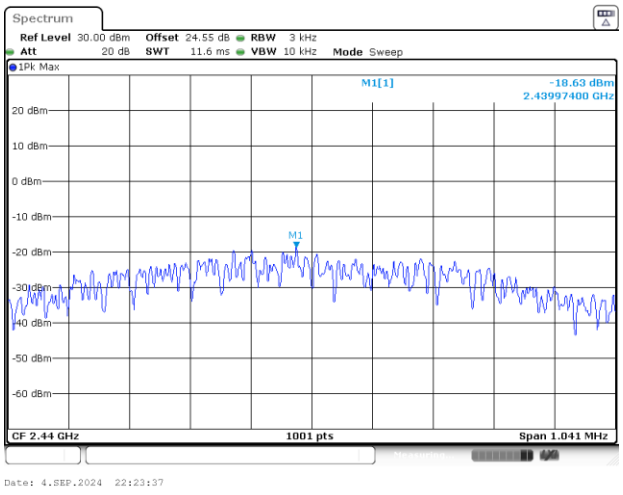
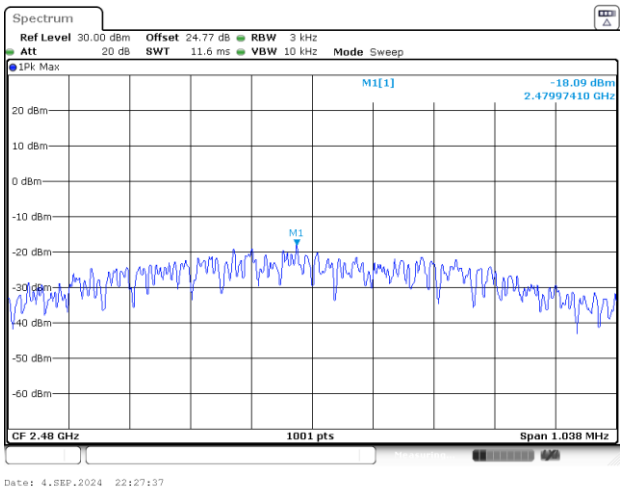
Power Density (dBm/3kHz) Plot Channel 00	Power Density (dBm/3kHz) Plot Channel 19
	
Power Density (dBm/3kHz) Plot Channel 39	
	

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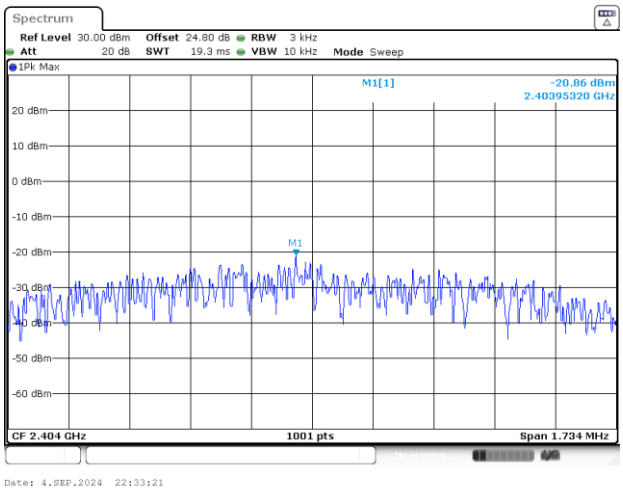
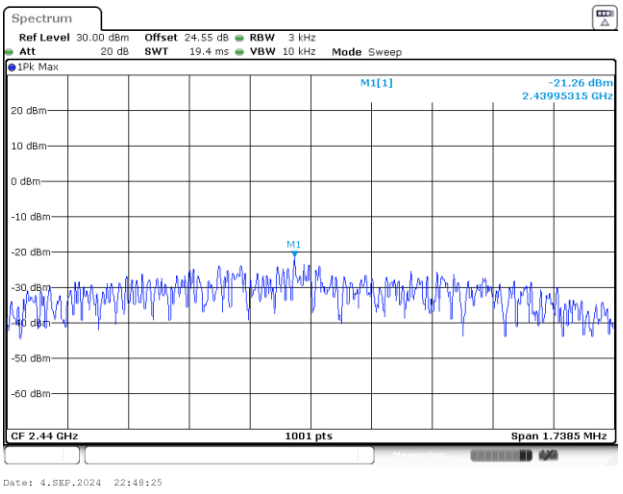
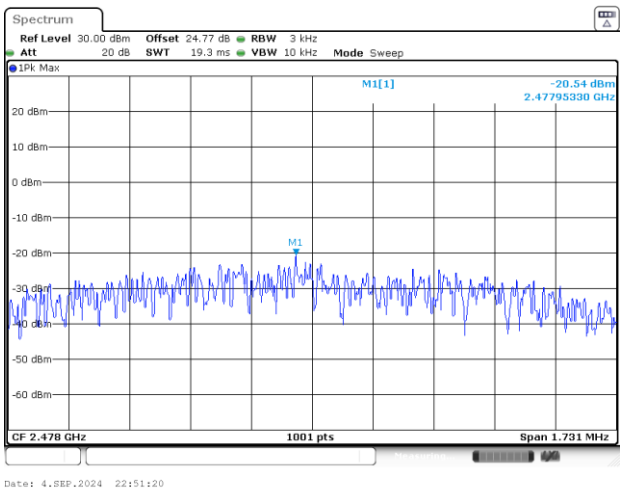
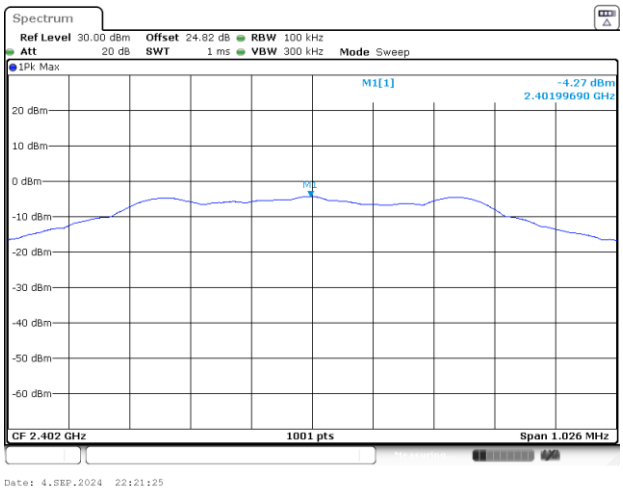
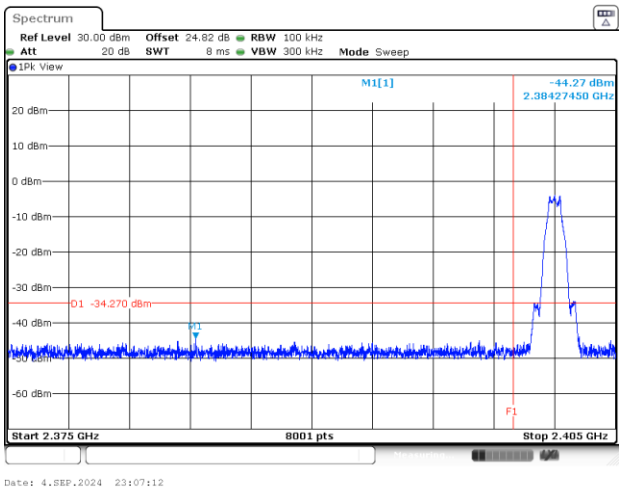
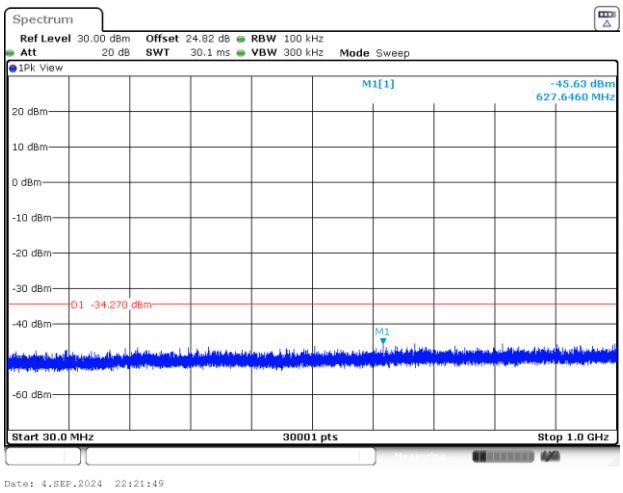
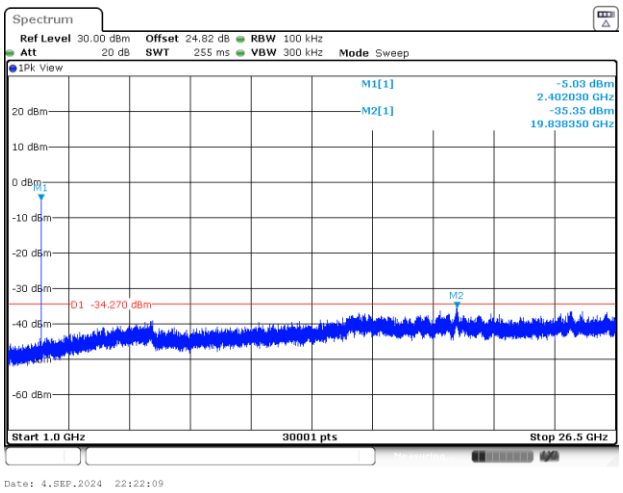
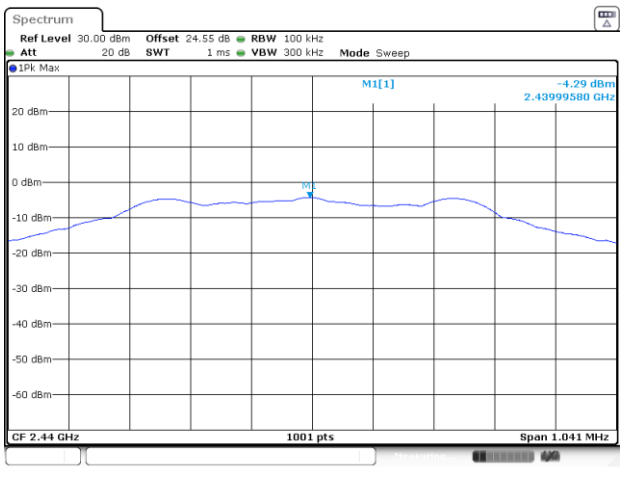
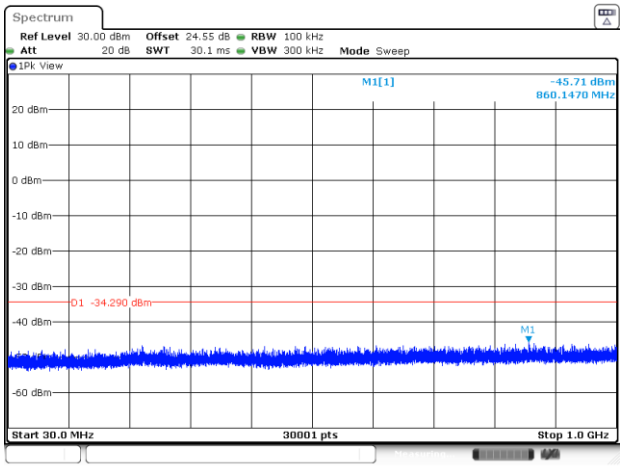
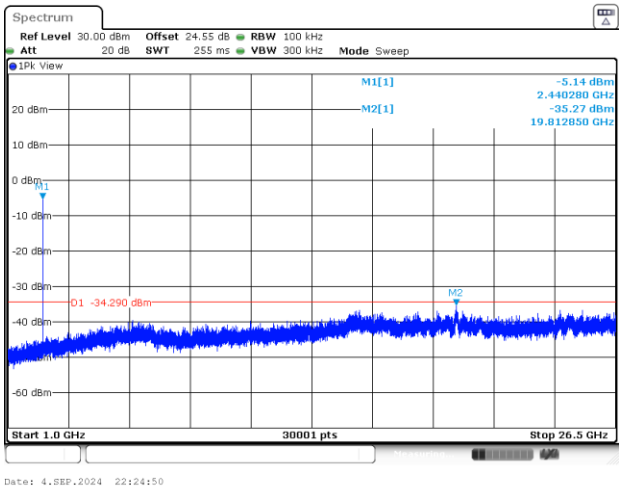
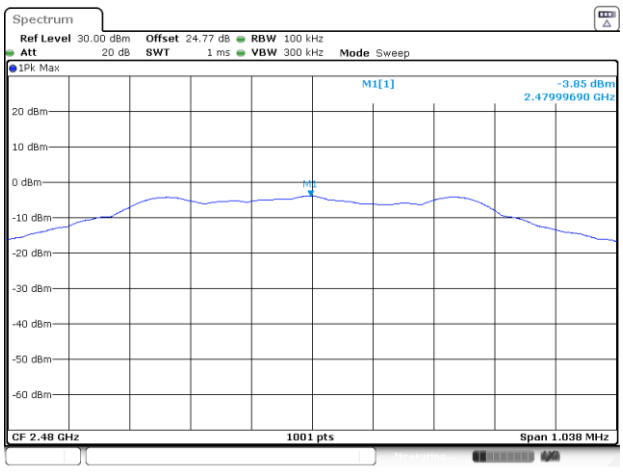
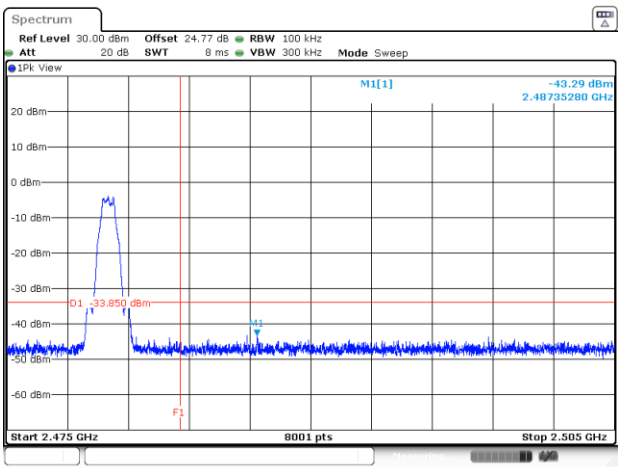
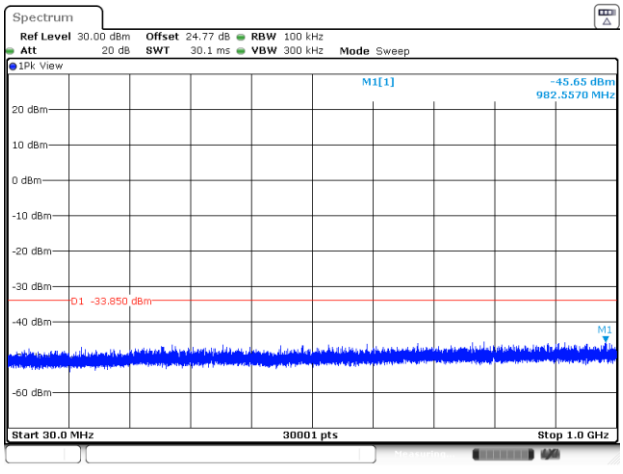
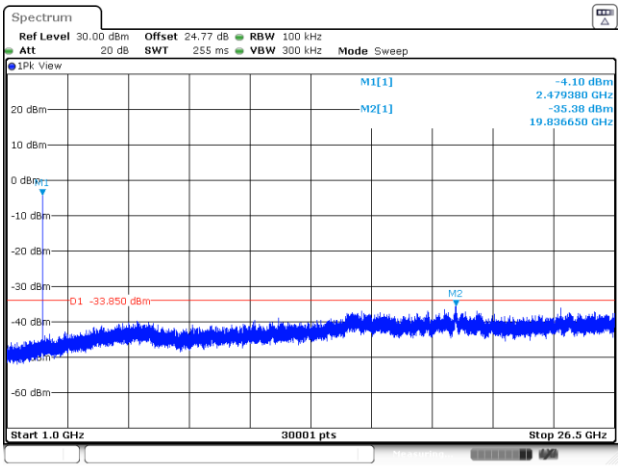
Power Density (dBm/3kHz) Plot Channel 01	Power Density (dBm/3kHz) Plot Channel 19
	
Power Density (dBm/3kHz) Plot Channel 38	
	

Band Edge and Conducted Spurious Emission

<1Mbps>

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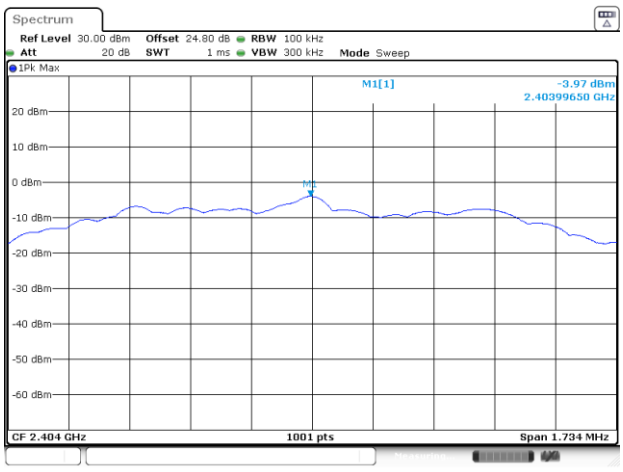
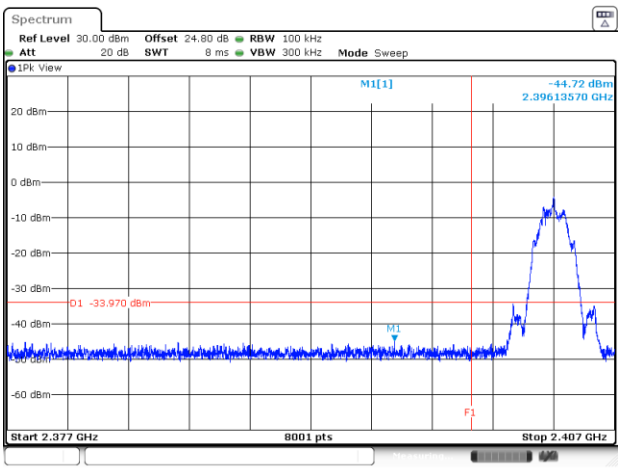
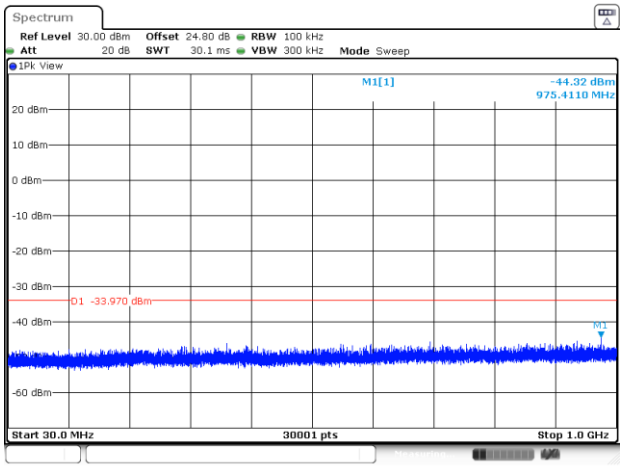
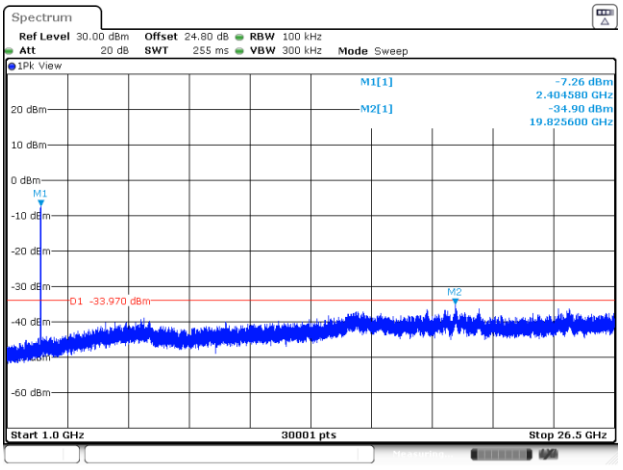
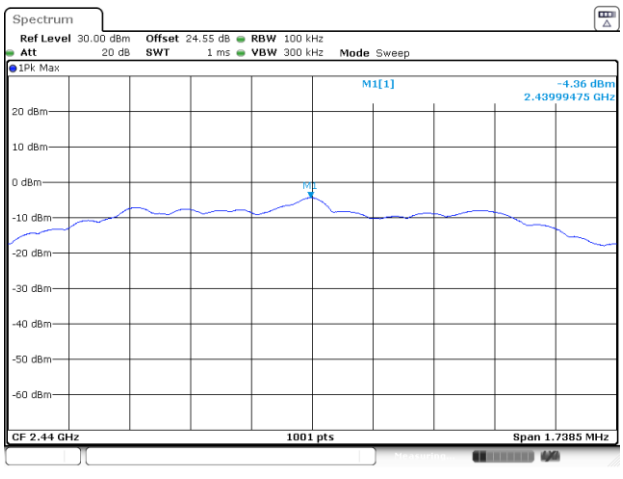
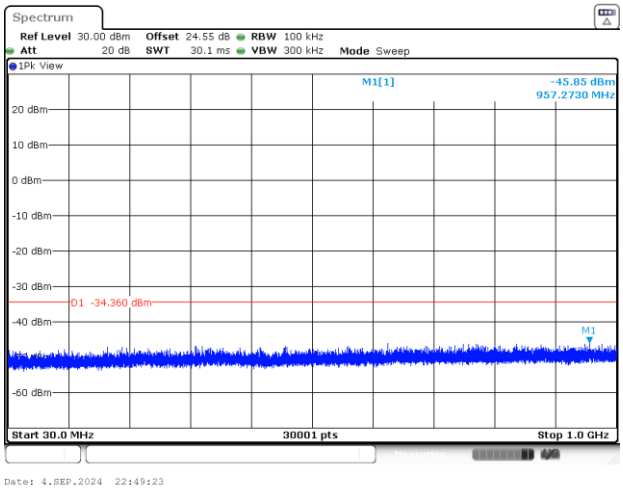
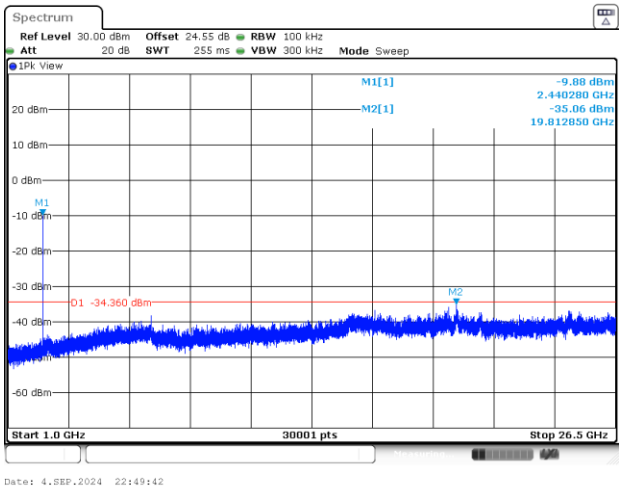
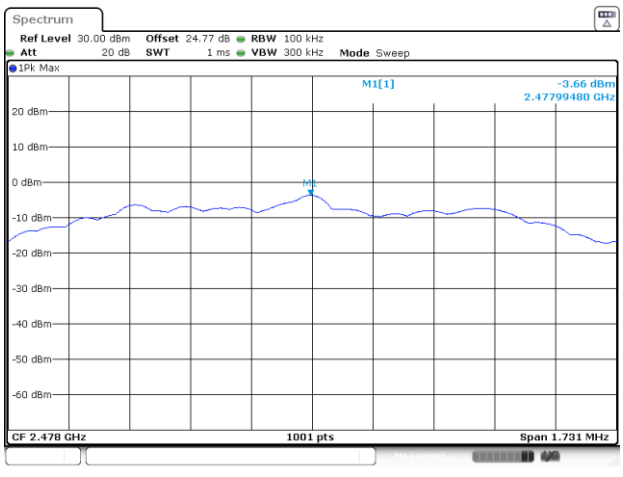
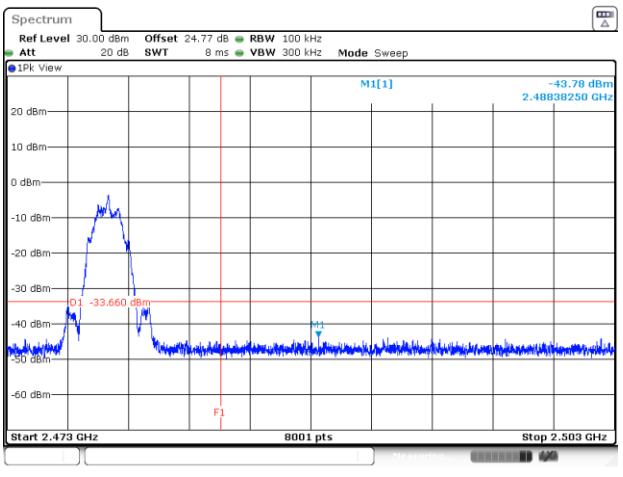
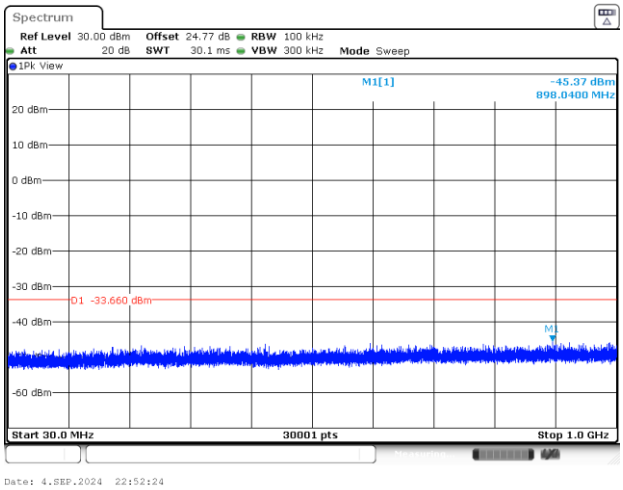
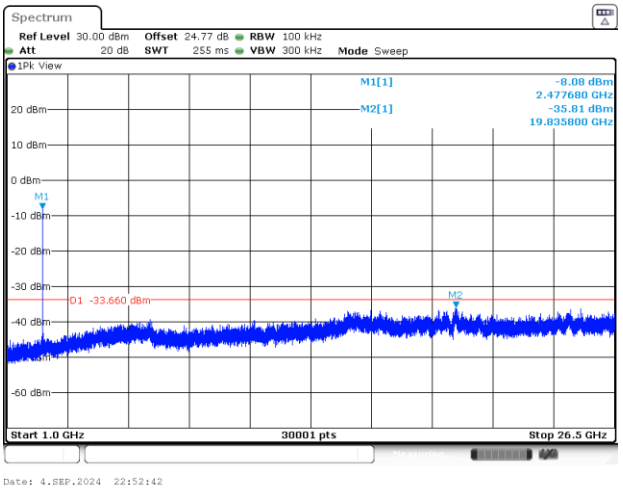
Channel 01	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

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

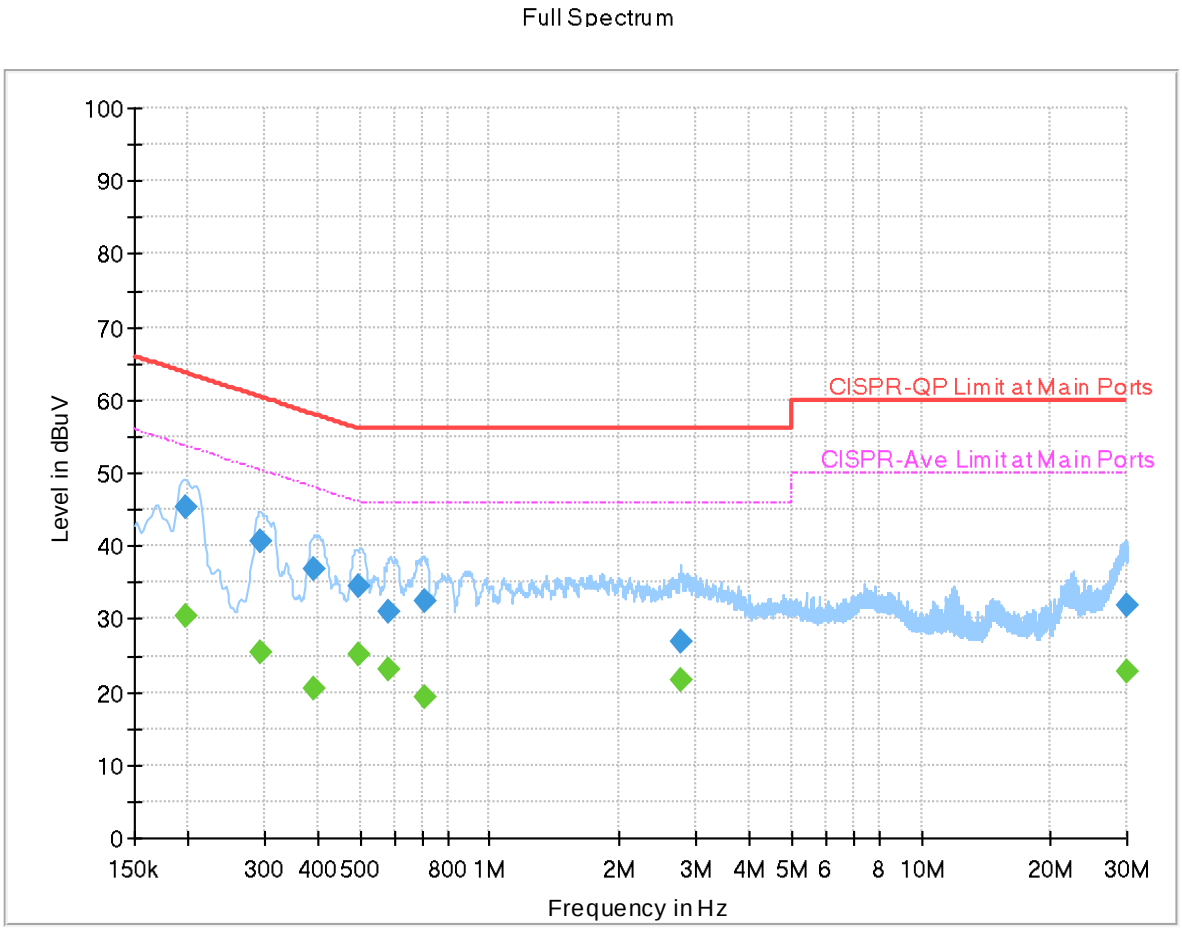
Channel 38	
100kHz PSD reference Level Plot	**Low Channel Plot**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	23.5~25.5℃
		Relative Humidity :	58.3~58.9%

EUT Information

Report NO :	482028
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



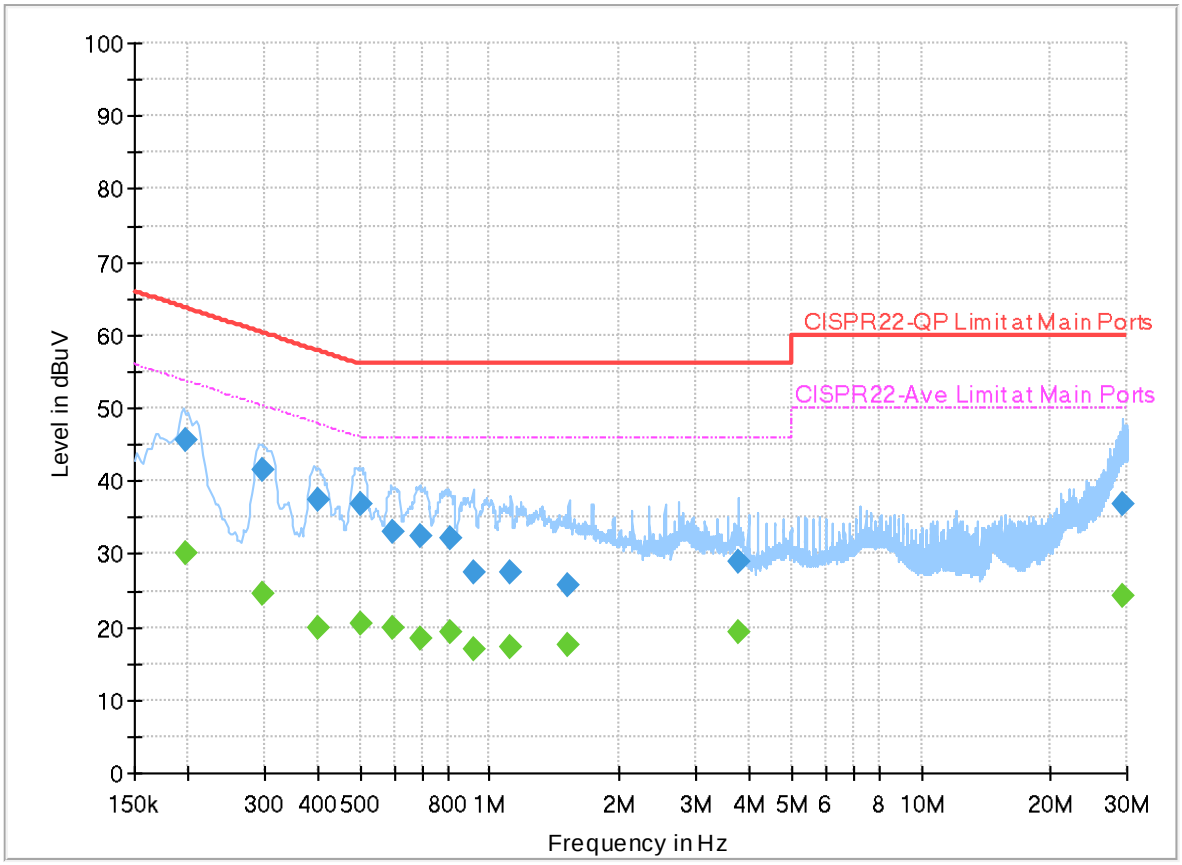
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.196080	---	30.52	53.78	23.26	L1	FLO	19.9
0.196080	45.36	---	63.78	18.42	L1	FLO	19.9
0.294360	---	25.45	50.40	24.95	L1	FLO	19.9
0.294360	40.56	---	60.40	19.84	L1	FLO	19.9
0.391020	---	20.35	48.04	27.69	L1	FLO	19.9
0.391020	36.80	---	58.04	21.24	L1	FLO	19.9
0.496500	---	25.05	46.06	21.01	L1	FLO	19.9
0.496500	34.58	---	56.06	21.48	L1	FLO	19.9
0.584970	---	23.21	46.00	22.79	L1	FLO	19.9
0.584970	31.09	---	56.00	24.91	L1	FLO	19.9
0.704220	---	19.37	46.00	26.63	L1	FLO	19.9
0.704220	32.32	---	56.00	23.68	L1	FLO	19.9
2.757750	---	21.74	46.00	24.26	L1	FLO	20.0
2.757750	26.98	---	56.00	29.02	L1	FLO	20.0
29.921190	---	22.72	50.00	27.28	L1	FLO	20.2
29.921190	31.86	---	60.00	28.14	L1	FLO	20.2

EUT Information

Report NO :	482028
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.197160	---	29.99	53.73	23.74	N	FLO	19.9
0.197160	45.68	---	63.73	18.05	N	FLO	19.9
0.298590	---	24.43	50.28	25.85	N	FLO	19.9
0.298590	41.40	---	60.28	18.88	N	FLO	19.9
0.398850	---	19.92	47.88	27.96	N	FLO	19.9
0.398850	37.29	---	57.88	20.59	N	FLO	19.9
0.503250	---	20.44	46.00	25.56	N	FLO	19.9
0.503250	36.74	---	56.00	19.26	N	FLO	19.9
0.595500	---	19.95	46.00	26.05	N	FLO	19.9
0.595500	32.91	---	56.00	23.09	N	FLO	19.9
0.692250	---	18.30	46.00	27.70	N	FLO	19.9
0.692250	32.47	---	56.00	23.53	N	FLO	19.9
0.807000	---	19.32	46.00	26.68	N	FLO	19.9
0.807000	32.12	---	56.00	23.88	N	FLO	19.9
0.919500	---	17.01	46.00	28.99	N	FLO	19.9
0.919500	27.35	---	56.00	28.65	N	FLO	19.9
1.113000	---	17.27	46.00	28.73	N	FLO	19.9
1.113000	27.59	---	56.00	28.41	N	FLO	19.9
1.522410	---	17.53	46.00	28.47	N	FLO	19.9

1.522410	**25.62**	**---**	**56.00**	**30.38**	**N**	**FLO**	**19.9**
3.770880	**---**	**19.27**	**46.00**	**26.73**	**N**	**FLO**	**20.0**
3.770880	**28.87**	**---**	**56.00**	**27.13**	**N**	**FLO**	**20.0**
29.457960	**---**	**24.17**	**50.00**	**25.83**	**N**	**FLO**	**20.2**
29.457960	**36.88**	**---**	**60.00**	**23.12**	**N**	**FLO**	**20.2**

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	John Chuang, David Dai and Sam Chou	**Temperature :**	19.6~23.4℃
		Relative Humidity :	65.0~70.3%

Note symbol

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

C1. Radiated Spurious Emission Test Modes

<1Mbps>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 5	2400-2483.5	1	Bluetooth-LE GSFK	00	2402	1Mbps	-	-
Mode 6	2400-2483.5	1	Bluetooth-LE GSFK	19	2440	1Mbps	-	-
Mode 7	2400-2483.5	1	Bluetooth-LE GSFK	39	2480	1Mbps	-	-

<2Mbps>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 8	2400-2483.5	1	Bluetooth-LE GSFK	01	2404	2Mbps	-	-
Mode 9	2400-2483.5	1	Bluetooth-LE GSFK	19	2440	2Mbps	-	-
Mode 10	2400-2483.5	1	Bluetooth-LE GSFK	38	2478	2Mbps	-	-
Mode 11	2400-2483.5	1	Bluetooth-LE GSFK	38	2478	2Mbps	-	LF
Mode 24	2400-2483.5	1	Bluetooth-LE GSFK	38	2478	2Mbps	-	SHF

C2. Summary of each worse mode

<1Mbps>

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
5	Bluetooth-LE GSFK	00	2384.98	40.43	54.00	-13.57	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GSFK	00	4804.00	44.39	74.00	-29.61	H	Peak	Pass	-	Harmonic
6	Bluetooth-LE GSFK	19	2496.16	40.73	54.00	-13.27	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GSFK	19	7320.00	39.06	54.00	-14.94	H	Avg.	Pass	-	Harmonic
7	Bluetooth-LE GSFK	39	2498.18	40.73	54.00	-13.27	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE GSFK	39	7440.00	47.76	74.00	-26.24	H	Peak	Pass	-	Harmonic

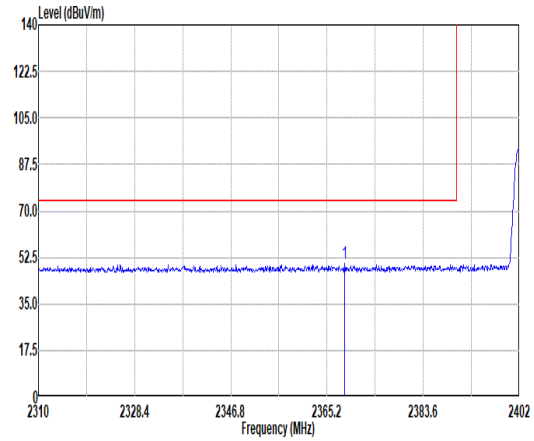
<2Mbps>

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
8	Bluetooth-LE GSFK	01	2359.35	41.19	54.00	-12.81	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GSFK	01	4808.00	43.43	74.00	-30.57	H	Peak	Pass	-	Harmonic
9	Bluetooth-LE GSFK	19	2484.28	41.40	54.00	-12.60	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE GSFK	19	7320.00	39.71	54.00	-14.29	H	Avg.	Pass	-	Harmonic
10	Bluetooth-LE GSFK	38	2488.45	41.75	54.00	-12.25	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GSFK	38	7434.00	37.74	54.00	-16.26	V	Avg.	Pass	-	Harmonic
11	LF	38	45.52	33.53	40.00	-6.47	V	Peak	Pass	-	LF
24	SHF	38	24671.00	41.74	74.00	-32.26	H	Peak	Pass	-	SHF

<1Mbps>

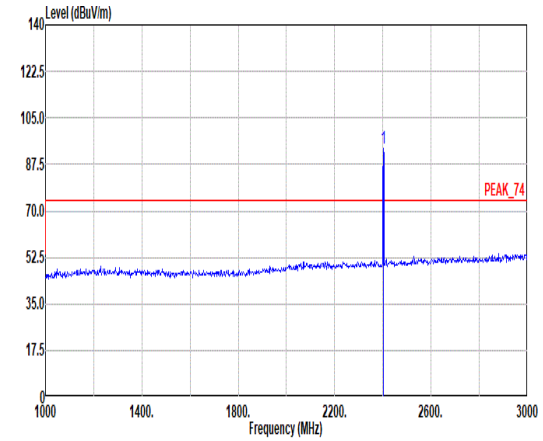
Mode	5	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

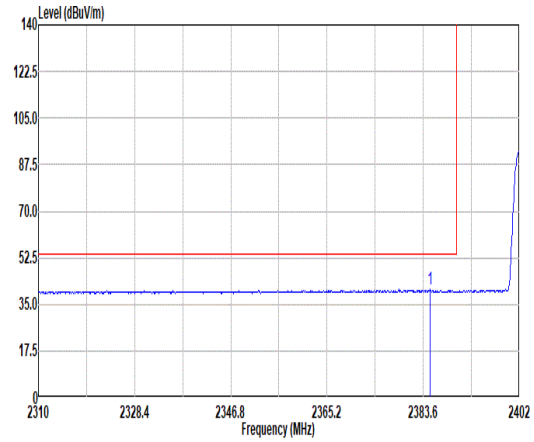
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2368.60	49.98	74.00	-24.02	40.25	27.29	8.65	36.24	10.03	112	31	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

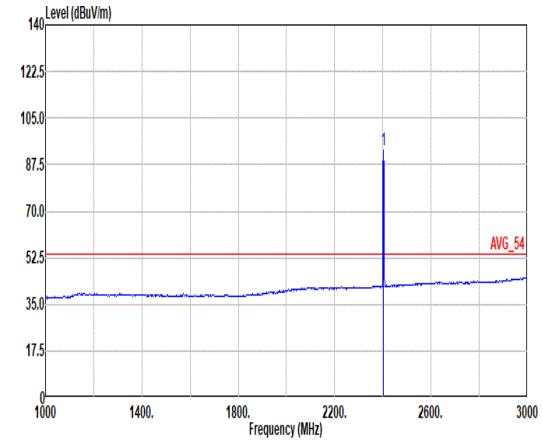
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2402.00	93.46	------	------	83.55	27.42	8.71	36.25	10.03	112	31	PEAK

Avg



Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:2.700kHz 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	2384.98	40.43	54.00	-13.57	30.61	27.35	8.68	36.24	10.03	112	31	AVERAGE

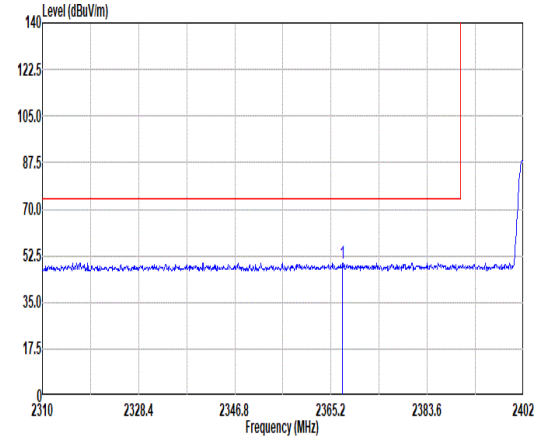


Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:2.700kHz SWT:Auto

	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	93.00	------	------	83.09	27.42	8.71	36.25	10.03	112	31	AVERAGE

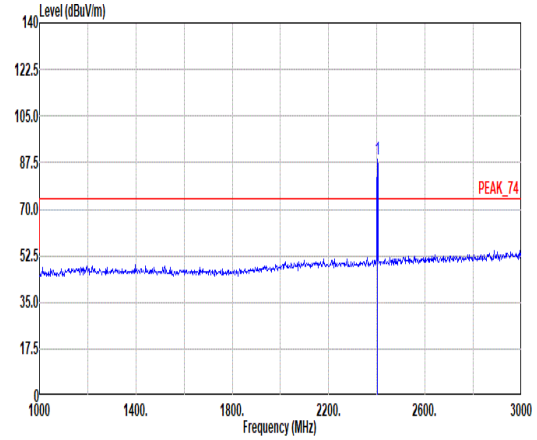
Mode	5	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH00_2402MHz	
ANT	1	
Pol.	Vertical	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

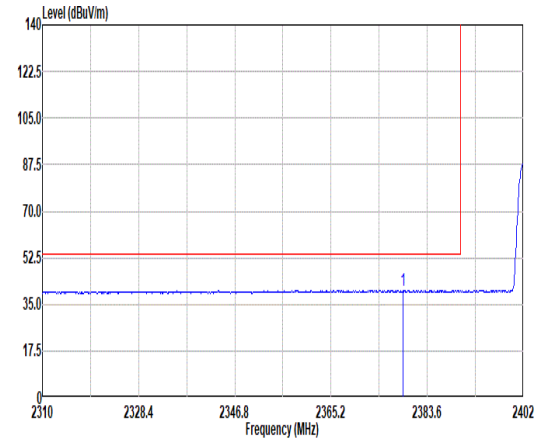
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2367.41	49.88	74.00	-24.12	40.16	27.27	8.65	36.23	10.03	361	266	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

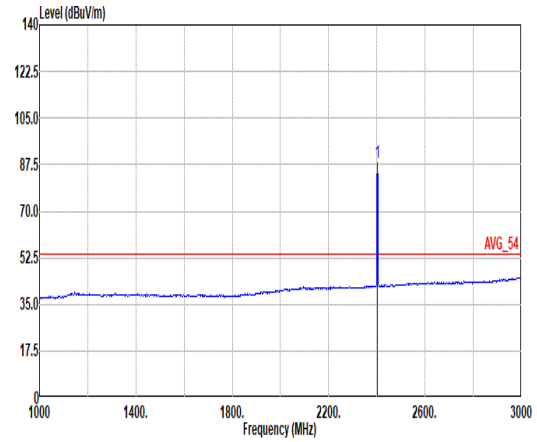
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2402.00	88.64	------	------	78.73	27.42	8.71	36.25	10.03	361	266	PEAK

Avg



Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:2.700kHz 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	2378.91	40.33	54.00	-13.67	30.48	27.39	8.67	36.24	10.03	361	266	AVERAGE



Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:2.700kHz 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	88.16	------	------	78.25	27.42	8.71	36.25	10.03	361	266	AVERAGE

<table>
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<tr><td colspan="2">Harmonic</td></tr>
<tr><td colspan="2">2400-2483.5_Bluetooth-LE GSFK_CH00_2402MHz</td></tr>
<tr><td>ANT</td><td colspan="2">1</td></tr>
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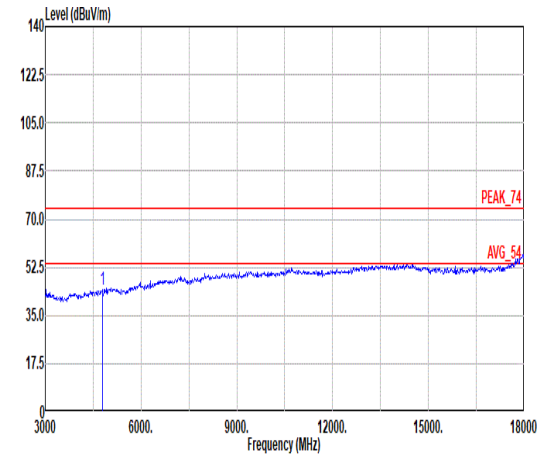
<tr><td>Peak
Avg</td><td>


Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 HORIZONTAL
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<tr><td>1</td><td>4804.00</td><td>44.39</td><td>74.00</td><td>-29.61</td><td>36.60</td><td>32.03</td><td>12.43</td><td>37.50</td><td>0.83</td><td>--</td><td>--</td><td>PEAK</td></tr>
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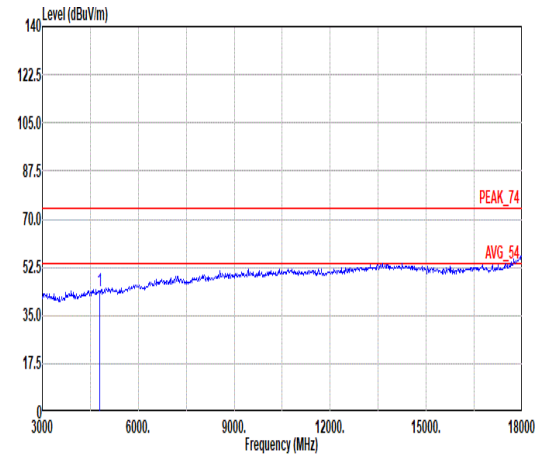

Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL
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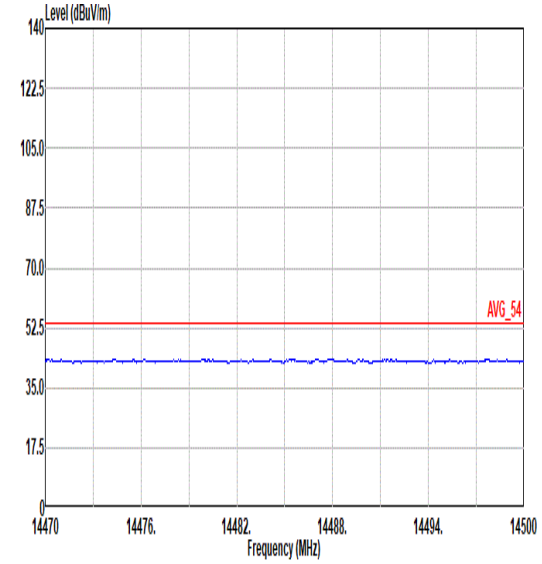
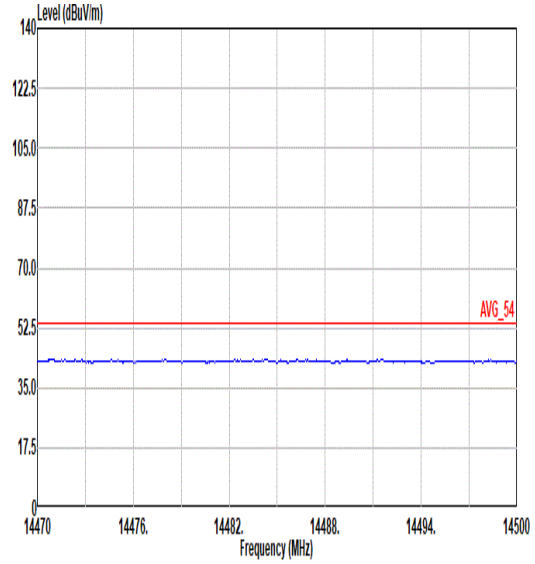
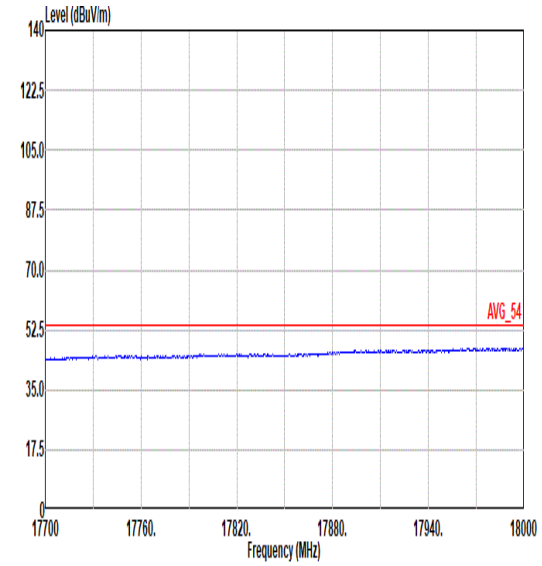
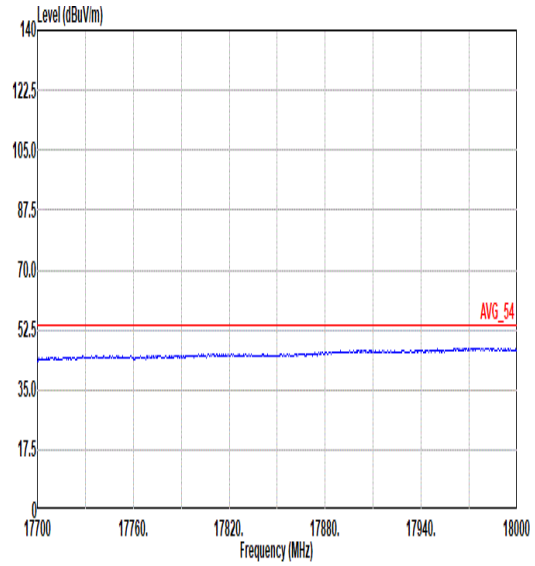
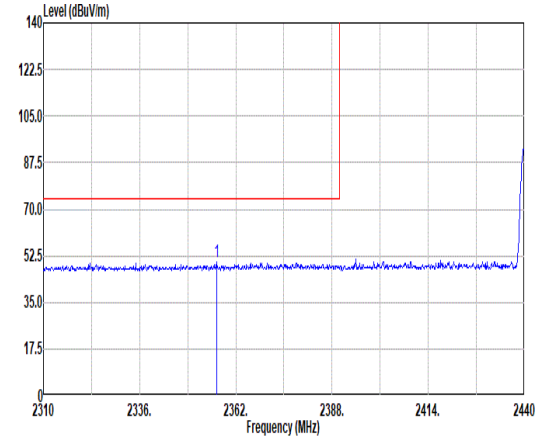
<tr><td></td><td>MHz</td><td>dBuV/m</td><td>dBuV/m</td><td>dB</td><td>dBuV</td><td>dB/m</td><td>dB</td><td>dB</td><td>dB</td><td>cm</td><td>deg</td><td></td></tr>
<tr><td>1</td><td>4804.00</td><td>43.64</td><td>74.00</td><td>-30.36</td><td>35.85</td><td>32.03</td><td>12.43</td><td>37.50</td><td>0.83</td><td>--</td><td>--</td><td>PEAK</td></tr>
</table>
</td></tr>
</table>

Mode	5	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

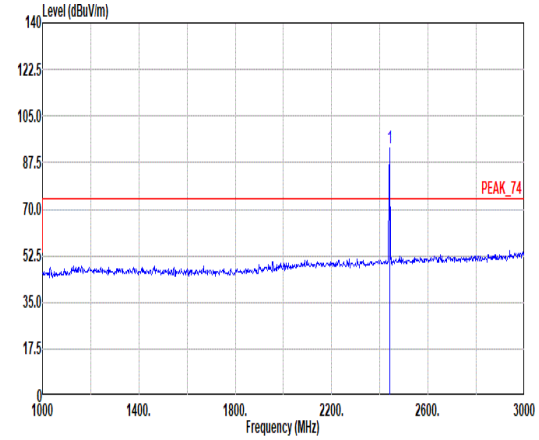
Mode	6	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

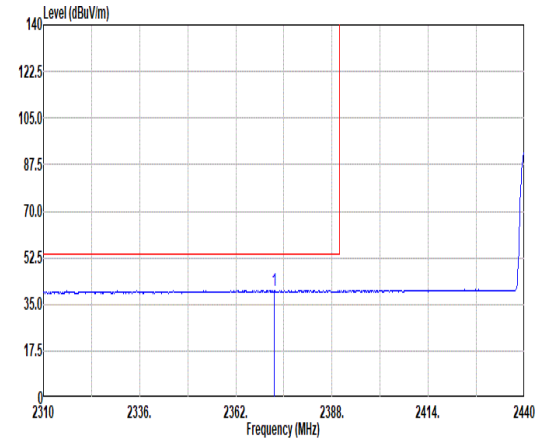
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2356.80	50.21	74.00	-23.79	40.61	27.17	8.63	36.23	10.03	100	33	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

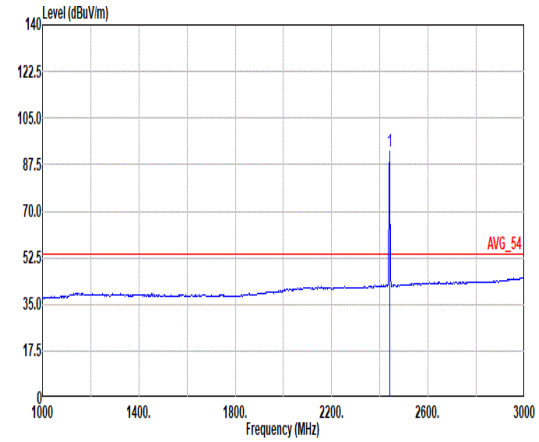
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2440.00	92.92	------	------	82.87	27.50	8.78	36.26	10.03	100	33	PEAK

Avg



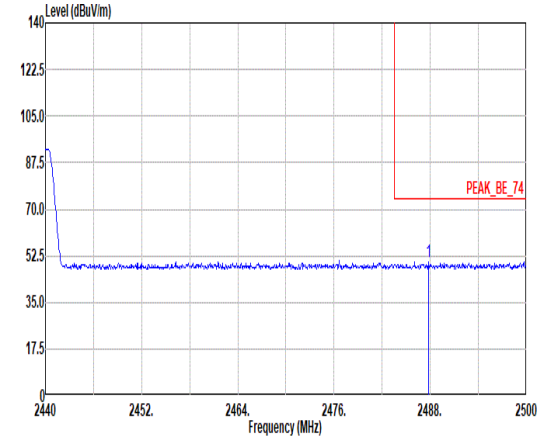
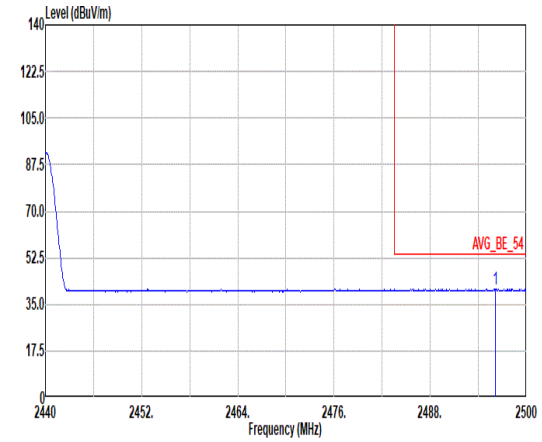
Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:2.700kHz SWT:Auto

	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	2372.40	40.16	54.00	-13.84	30.39	27.32	8.66	36.24	10.03	100	33	AVERAGE



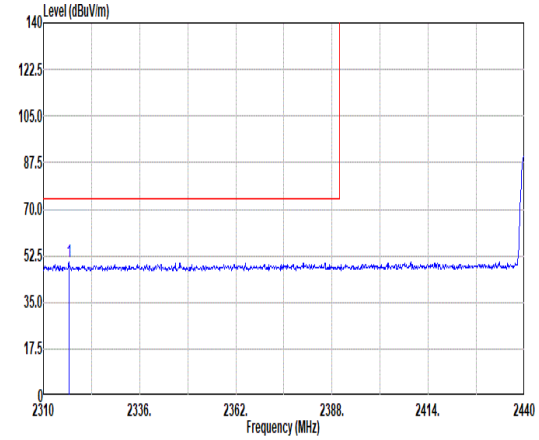
Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:2.700kHz SWT:Auto

	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	92.43	------	------	82.38	27.50	8.78	36.26	10.03	100	33	AVERAGE

Mode	6	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_231030 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 2487.82 50.22 74.00 -23.78 39.92 27.68 8.87 36.28 10.03 100 33 PEAK	Blank
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz 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 2496.16 40.73 54.00 -13.27 30.39 27.70 8.89 36.28 10.03 100 33 AVERAGE	Blank

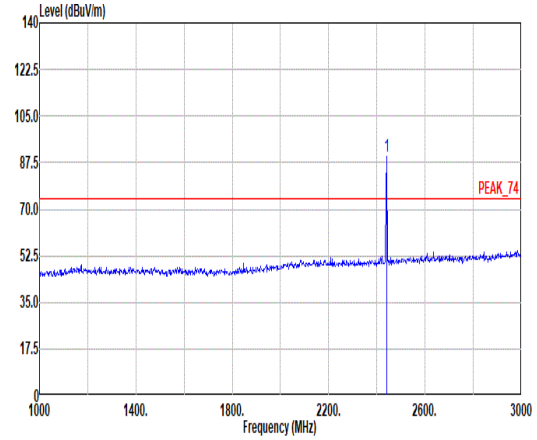
Mode	6	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

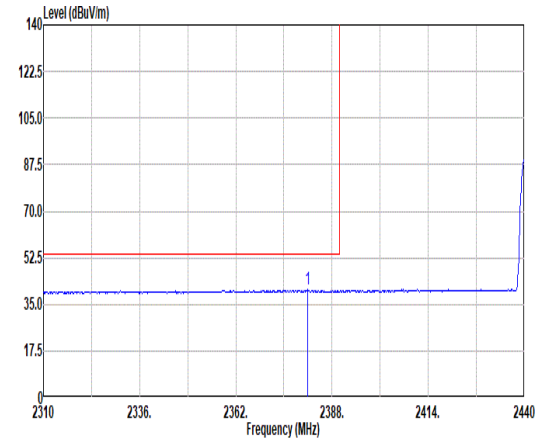
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2316.89	49.93	74.00	-24.07	40.47	27.10	8.55	36.22	10.03	396	108	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

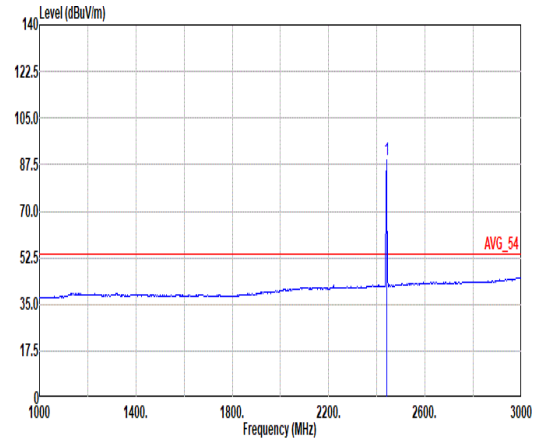
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2440.00	89.96	------	------	79.91	27.50	8.78	36.26	10.03	396	108	PEAK

Avg



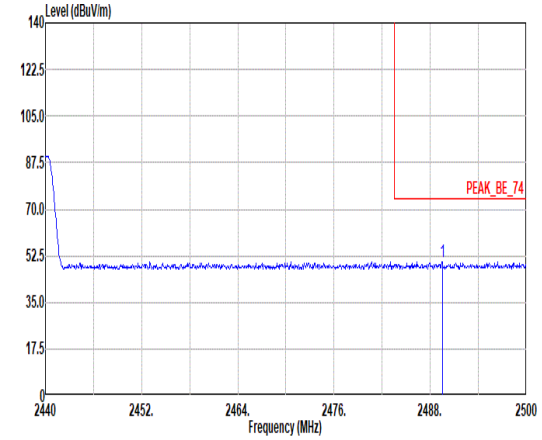
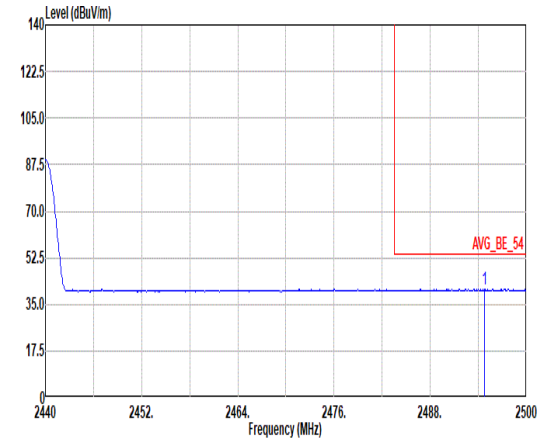
Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:2.700kHz SWT:Auto

	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	2381.37	40.42	54.00	-13.58	30.57	27.39	8.67	36.24	10.03	396	108	AVERAGE



Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:2.700kHz SWT:Auto

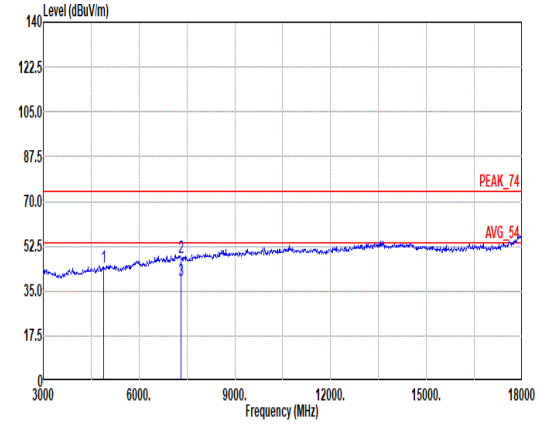
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2440.00	89.51	------	------	79.46	27.50	8.78	36.26	10.03	396	108	AVERAGE

Mode	6	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_231030 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 2489.50 50.36 74.00 -23.64 40.04 27.69 8.88 36.28 10.03 396 108 PEAK	Blank
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:2.700kHz 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 2494.78 40.66 54.00 -13.34 30.32 27.70 8.89 36.28 10.03 396 108 AVERAGE	Blank

Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical

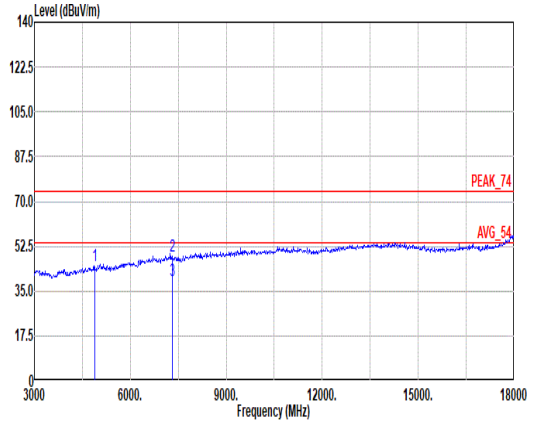
Peak

Avg



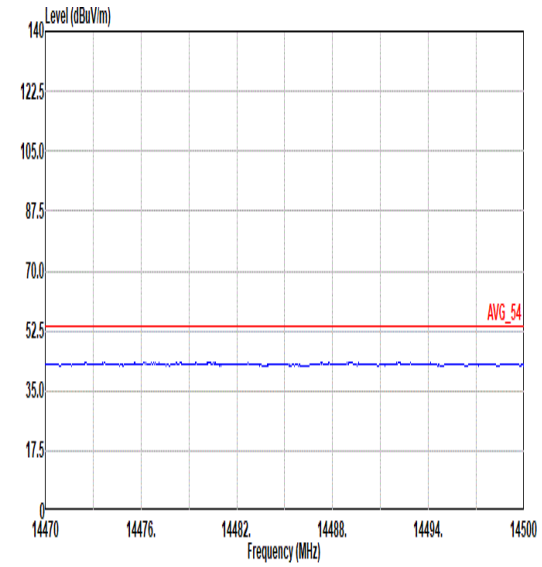
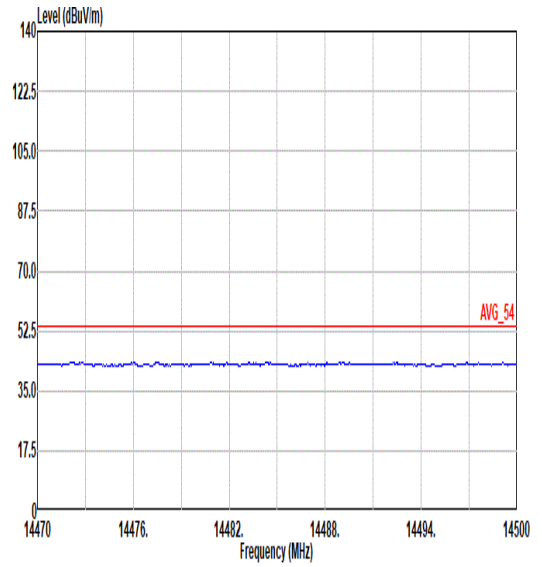
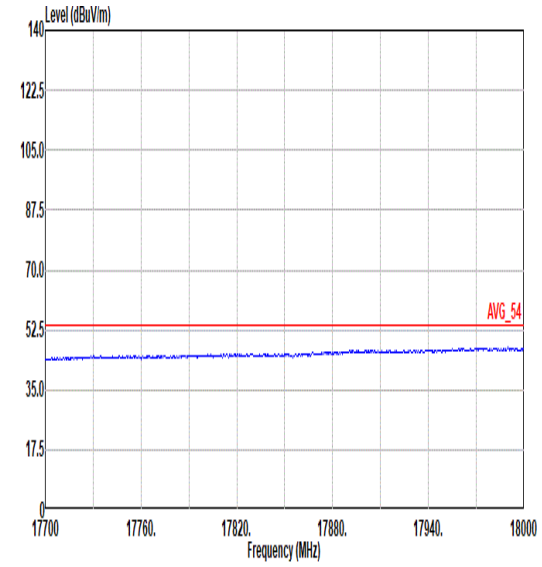
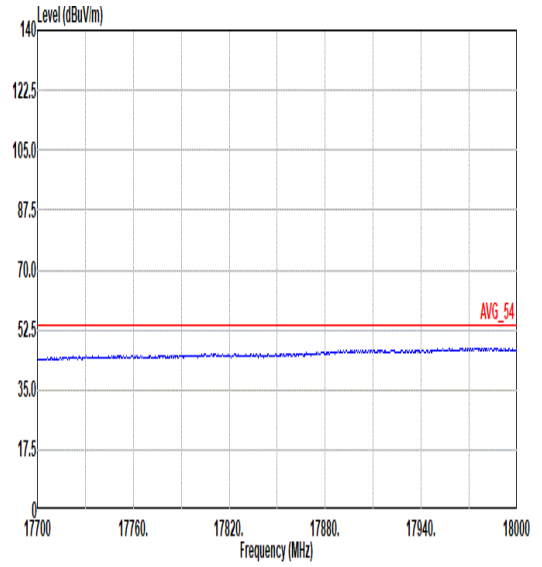
Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 HORIZONTAL

	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	44.48	74.00	-29.52	36.23	32.58	12.56	37.56	0.67	--	--	PEAK
2	7320.00	48.12	74.00	-25.88	34.07	36.86	15.45	38.61	0.35	100	54	PEAK
3	7320.00	39.06	54.00	-14.94	25.01	36.86	15.45	38.61	0.35	100	54	Average



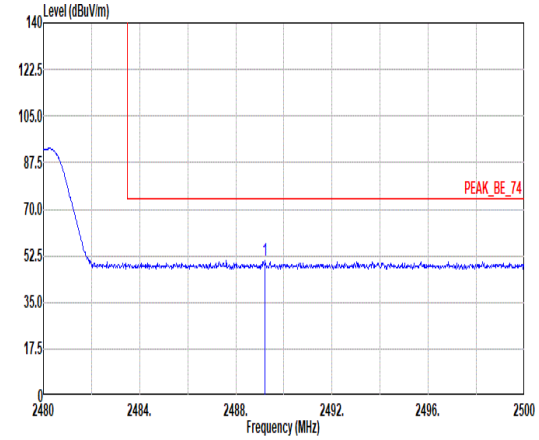
Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL

	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	44.71	74.00	-29.29	36.46	32.58	12.56	37.56	0.67	--	--	PEAK
2	7320.00	48.87	74.00	-25.13	34.82	36.86	15.45	38.61	0.35	400	94	PEAK
3	7320.00	38.93	54.00	-15.07	24.88	36.86	15.45	38.61	0.35	400	94	Average

Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

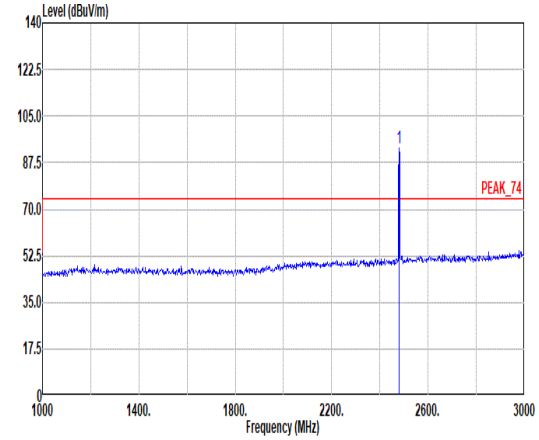
Mode	7	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

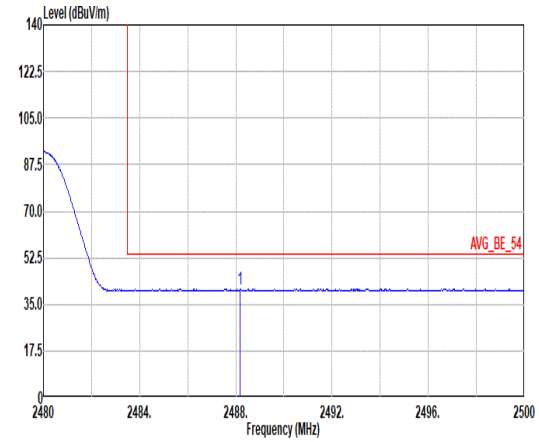
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2489.22	50.94	74.00	-23.06	40.62	27.69	8.88	36.28	10.03	100	34	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

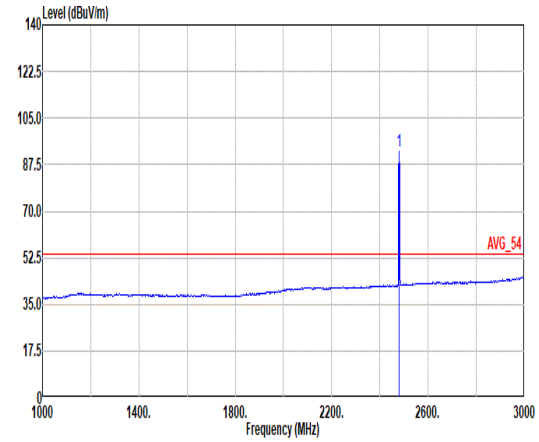
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2480.00	93.03	------	------	82.81	27.60	8.86	36.27	10.03	100	34	PEAK

Avg



Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:2.700kHz 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	2488.18	40.69	54.00	-13.31	30.39	27.68	8.87	36.28	10.03	100	34	AVERAGE

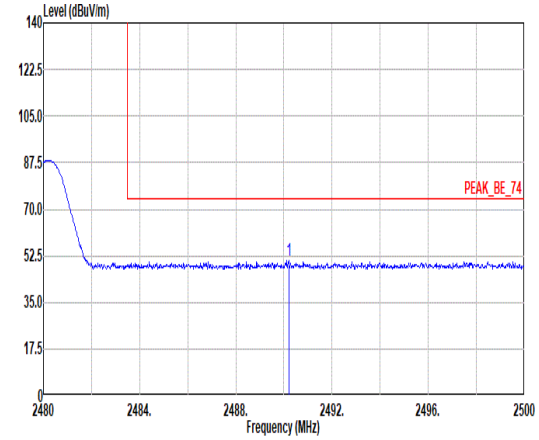


Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:2.700kHz SWT:Auto

	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	92.57	------	------	82.35	27.60	8.86	36.27	10.03	100	34	AVERAGE

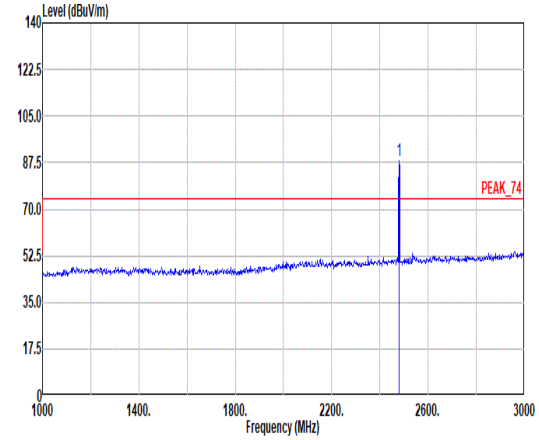
Mode	7	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	1	
Pol.	Vertical	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

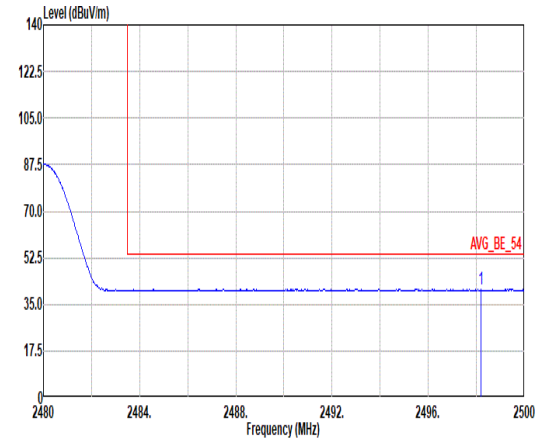
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2490.20	50.48	74.00	-23.52	40.15	27.70	8.88	36.28	10.03	388	197	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

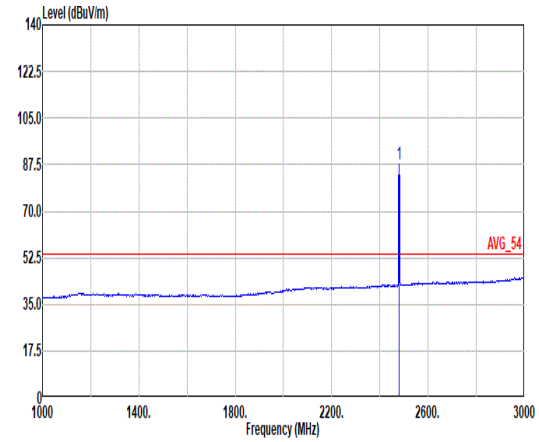
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2480.00	88.34	------	------	78.12	27.60	8.86	36.27	10.03	388	197	PEAK

Avg



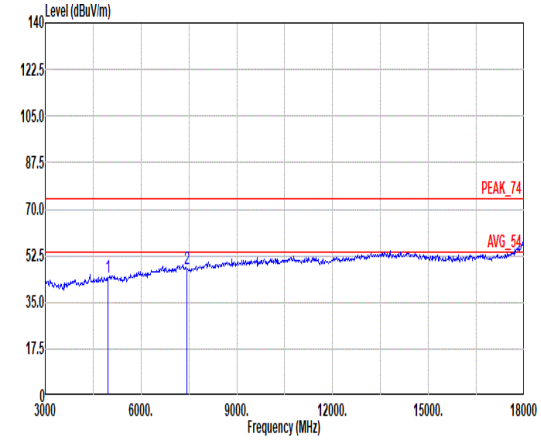
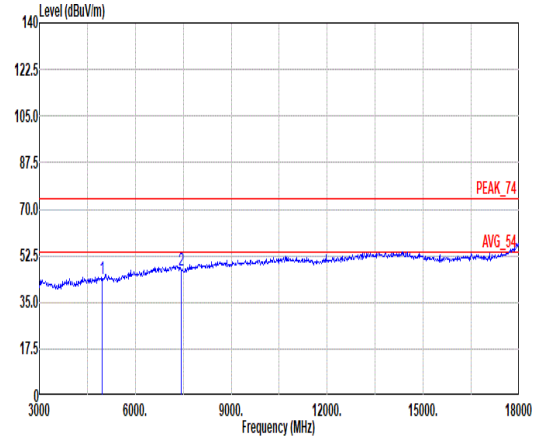
Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:2.700kHz SWT:Auto

	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	2498.18	40.73	54.00	-13.27	30.39	27.70	8.89	36.28	10.03	388	197	AVERAGE



Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:2.700kHz 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	87.87	------	------	77.65	27.60	8.86	36.27	10.03	388	197	AVERAGE

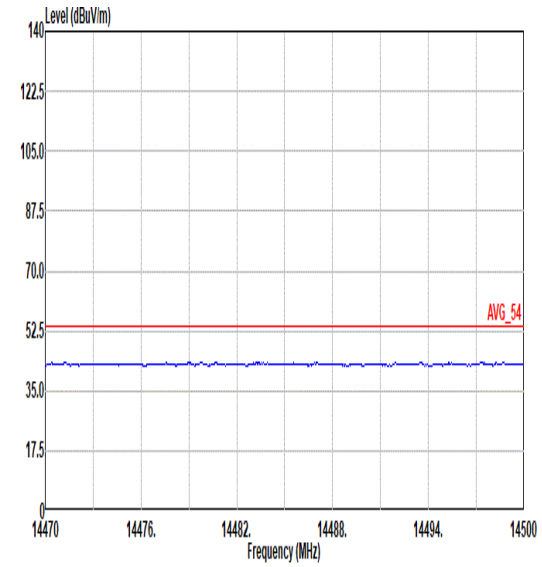
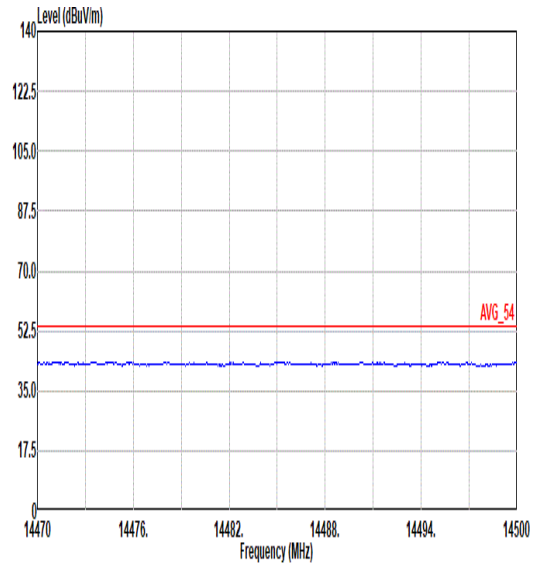
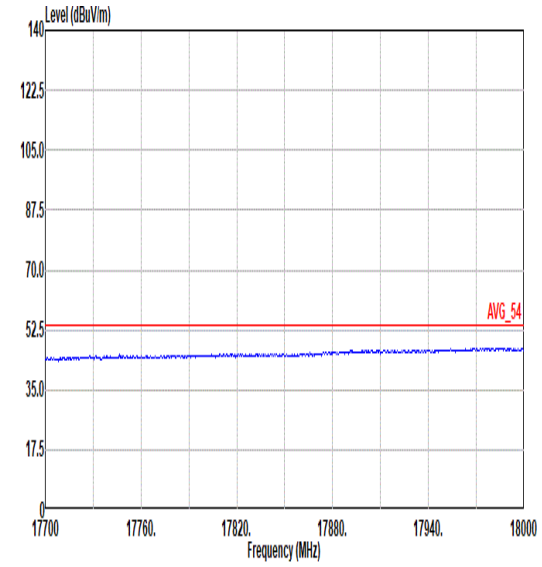
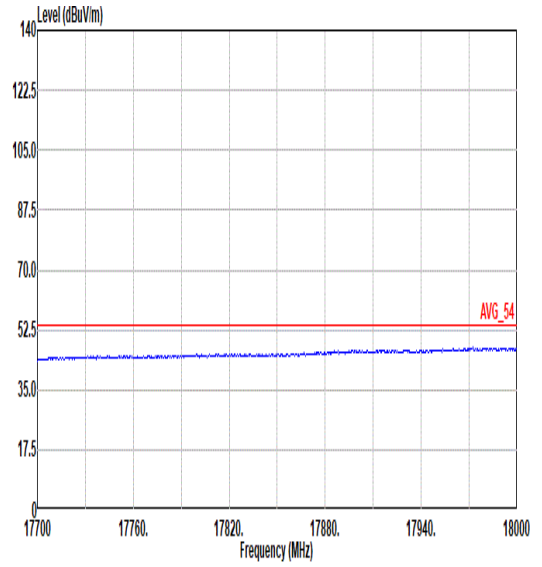
Mode	7	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg		

Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 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	44.35	74.00	-29.65	35.84	32.94	12.70	37.63	0.50	--	--	PEAK
2	7440.00	47.76	74.00	-26.24	34.11	36.44	15.59	38.71	0.33	--	--	PEAK

Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL

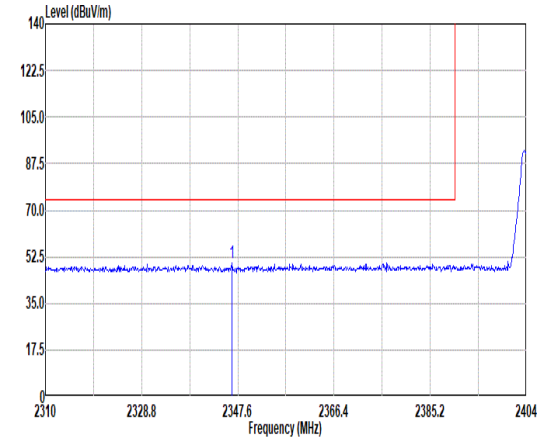
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4960.00	43.99	74.00	-30.01	35.48	32.94	12.70	37.63	0.50	--	--	PEAK
2	7440.00	47.04	74.00	-26.96	33.39	36.44	15.59	38.71	0.33	--	--	PEAK

Mode	7	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

<2Mbps>

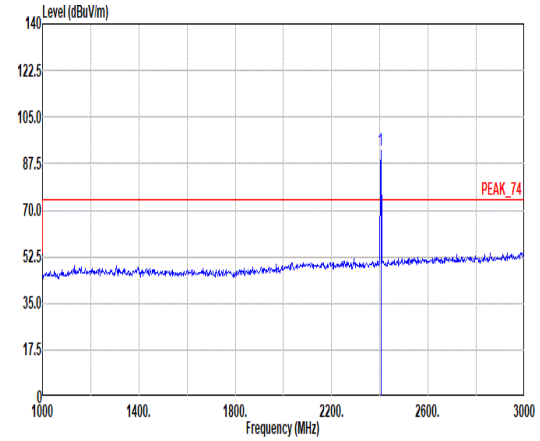
Mode	8	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

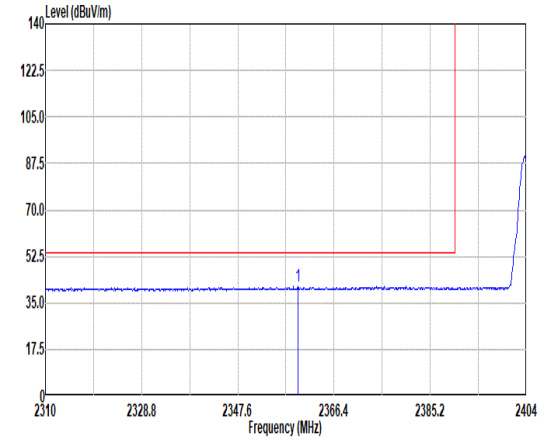
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2346.38	50.40	74.00	-23.60	40.89	27.10	8.61	36.23	10.03	300	31	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

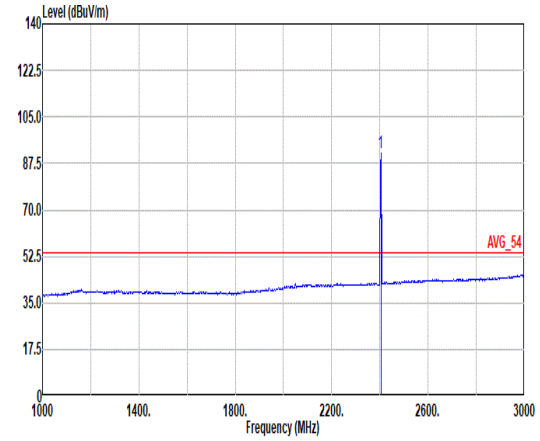
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2404.00	92.62	------	------	82.68	27.44	8.72	36.25	10.03	300	31	PEAK

Avg



Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:5.100kHz 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	2359.35	41.19	54.00	-12.81	31.57	27.19	8.63	36.23	10.03	300	31	AVERAGE

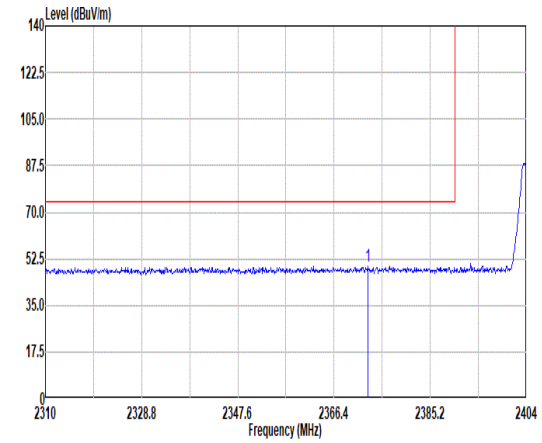


Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:5.100kHz SWT:Auto

	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	91.30	------	------	81.36	27.44	8.72	36.25	10.03	300	31	AVERAGE

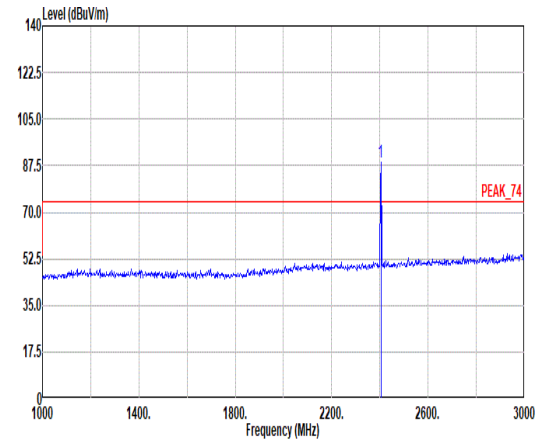
Mode	8	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH01_2404MHz	
ANT	1	
Pol.	Vertical	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

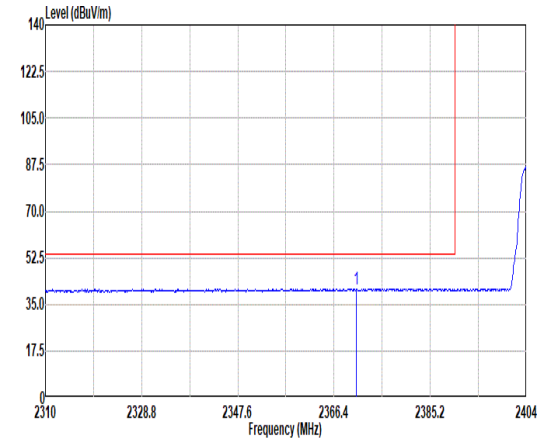
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2373.07	49.83	74.00	-24.17	40.05	27.33	8.66	36.24	10.03	400	294	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

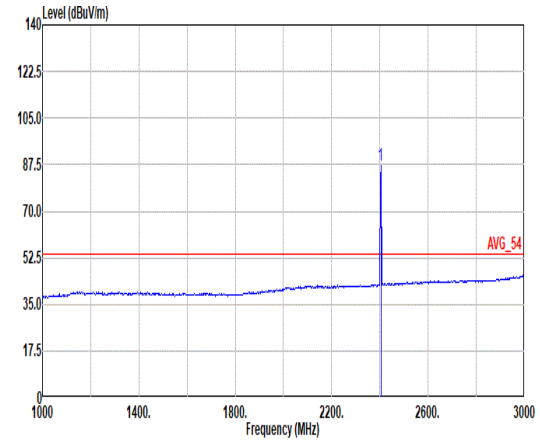
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2404.00	88.57	------	------	78.63	27.44	8.72	36.25	10.03	400	294	PEAK

Avg



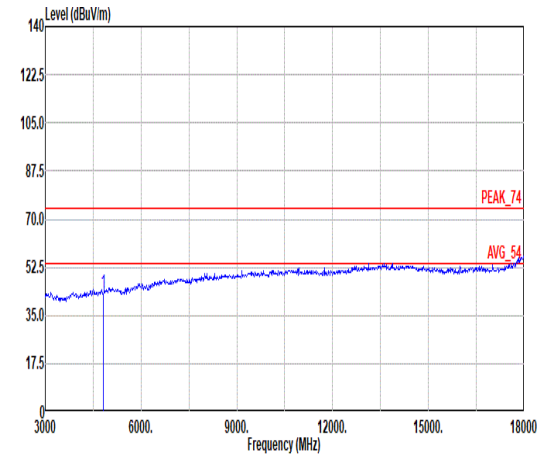
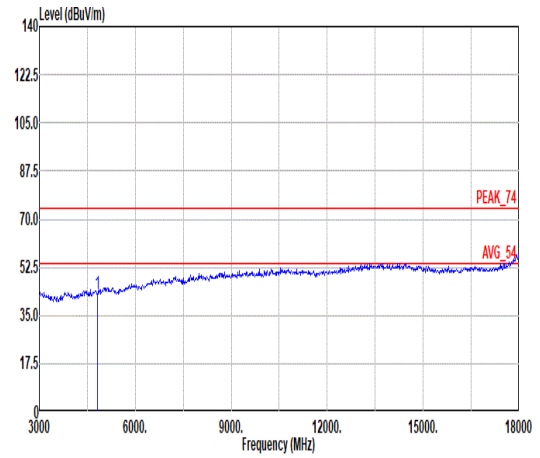
Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:5.100kHz SWT:Auto

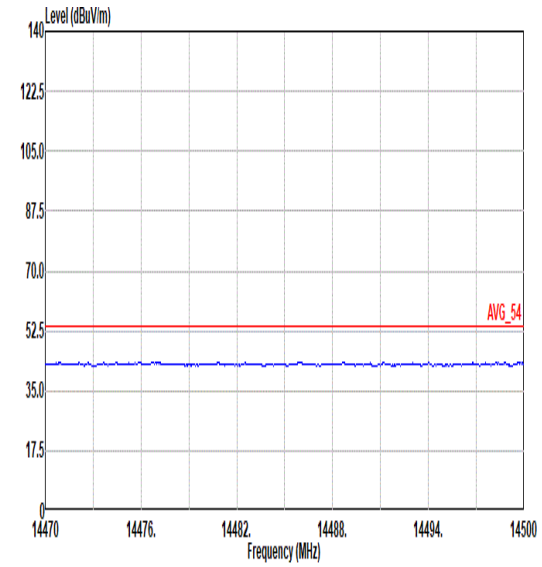
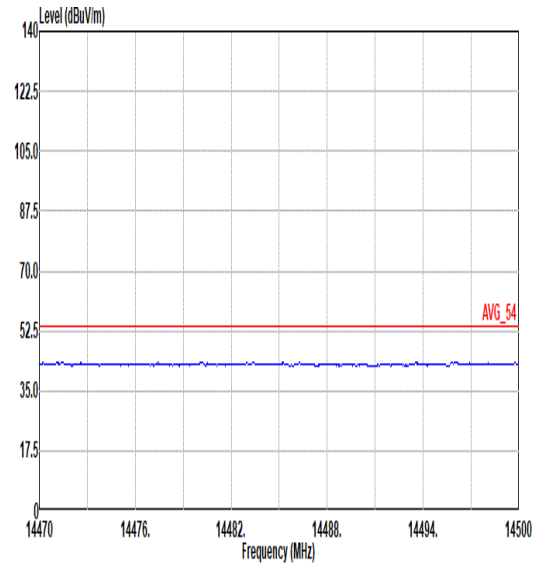
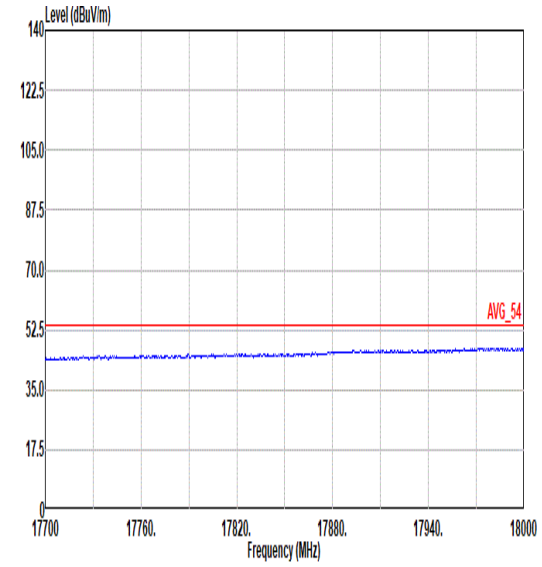
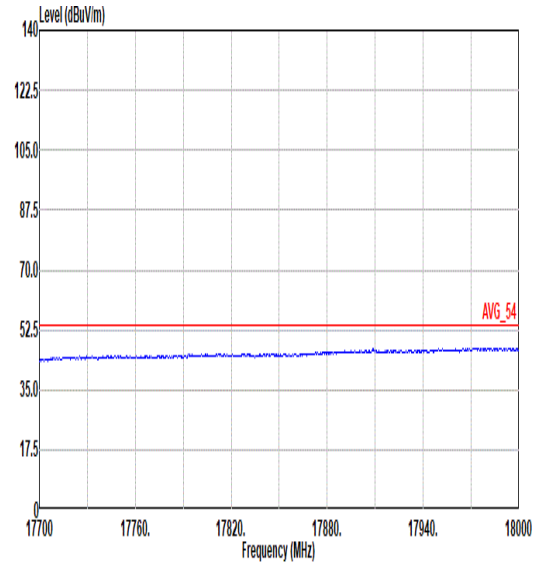
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2370.82	40.89	54.00	-13.11	31.14	27.31	8.65	36.24	10.03	400	294	AVERAGE



Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:5.100kHz SWT:Auto

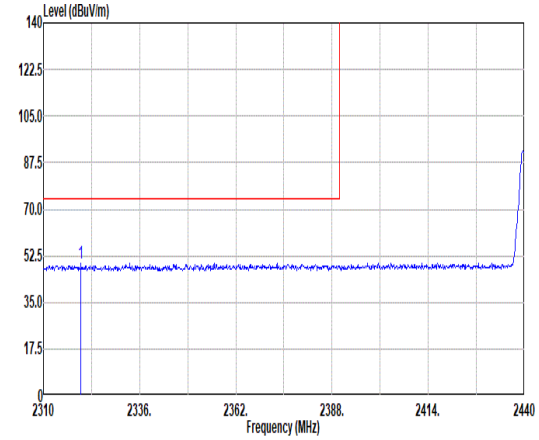
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2404.00	87.23	------	------	77.29	27.44	8.72	36.25	10.03	400	294	AVERAGE

Mode	8	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_231030 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 43.43 74.00 -30.57 35.62 32.06 12.43 37.50 0.82 -- -- PEAK	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_231030 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 43.02 74.00 -30.98 35.21 32.06 12.43 37.50 0.82 -- -- PEAK

Mode	8	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

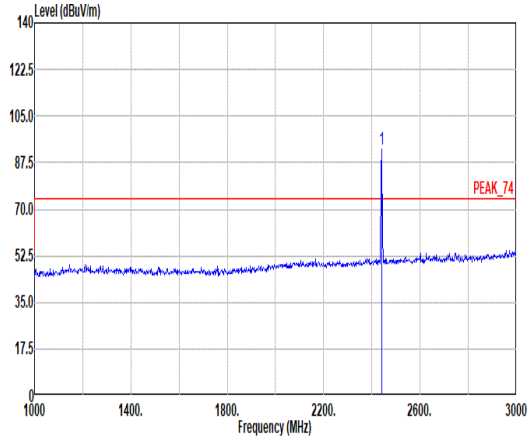
Mode	9	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

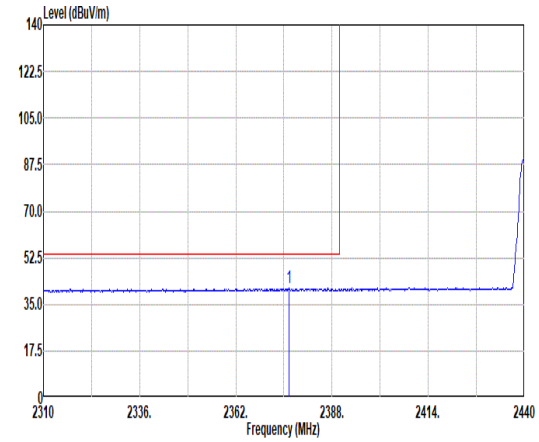
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2320.14	49.72	74.00	-24.28	40.25	27.10	8.56	36.22	10.03	200	16	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

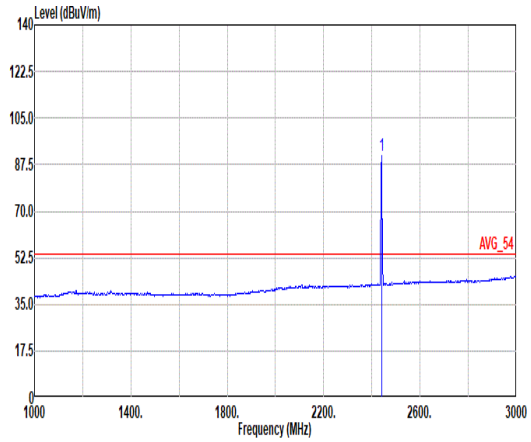
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2440.00	92.20	------	------	82.15	27.50	8.78	36.26	10.03	200	16	PEAK

Avg



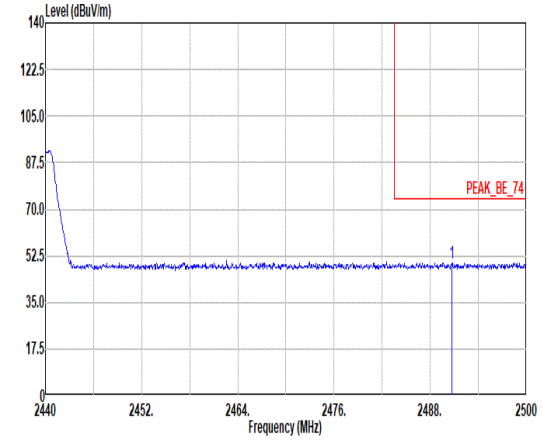
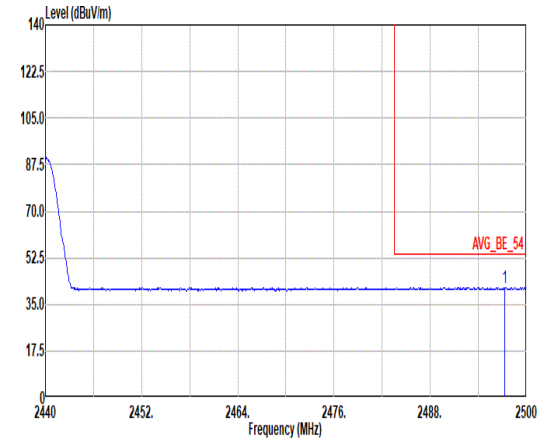
Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:5.100kHz SWT:Auto

	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	2376.30	41.07	54.00	-12.93	31.26	27.36	8.66	36.24	10.03	200	16	AVERAGE



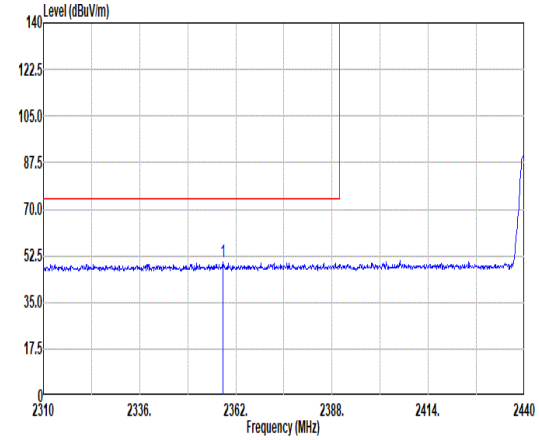
Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:5.100kHz SWT:Auto

	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	90.68	------	------	80.63	27.50	8.78	36.26	10.03	200	16	AVERAGE

Mode	9	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_231030 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 2490.70 49.78 74.00 -24.22 39.45 27.70 8.88 36.28 10.03 200 16 PEAK	Blank
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz 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 2497.30 41.34 54.00 -12.66 31.00 27.70 8.89 36.28 10.03 200 16 AVERAGE	Blank

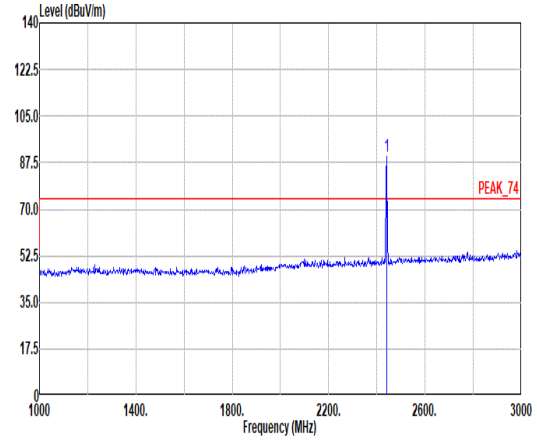
Mode	9	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

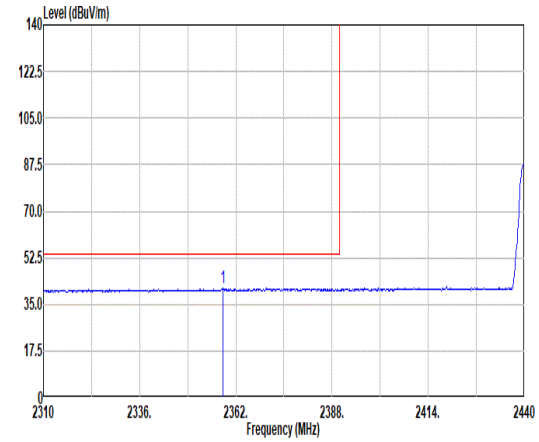
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2358.49	49.96	74.00	-24.04	40.35	27.18	8.63	36.23	10.03	396	105	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

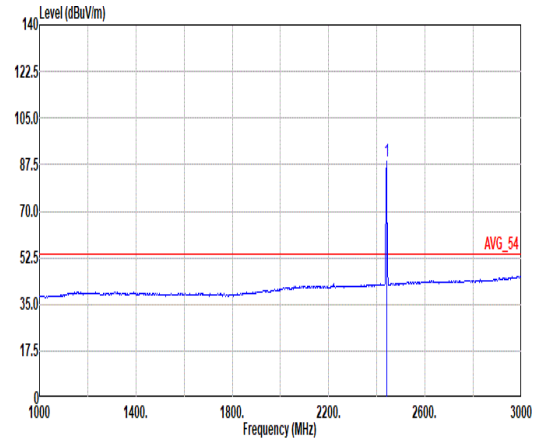
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2440.00	90.03	------	------	79.98	27.50	8.78	36.26	10.03	396	105	PEAK

Avg



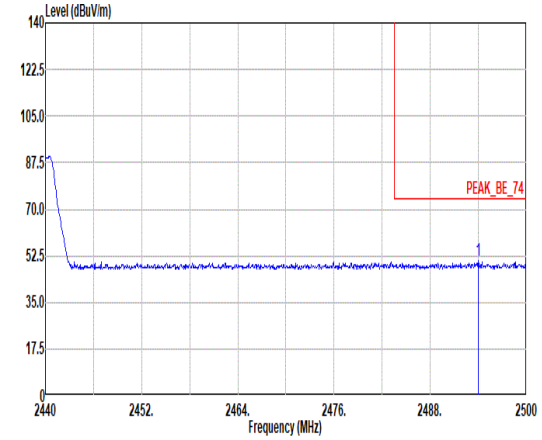
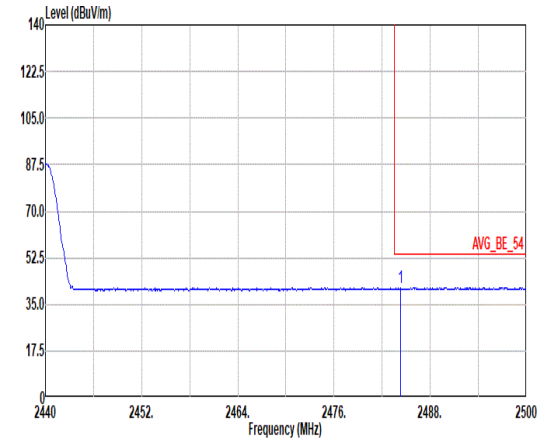
Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:5.100kHz SWT:Auto

	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	2358.49	41.37	54.00	-12.63	31.76	27.18	8.63	36.23	10.03	396	105	AVERAGE

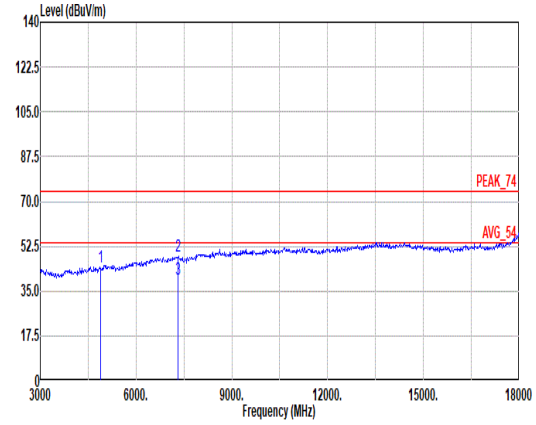
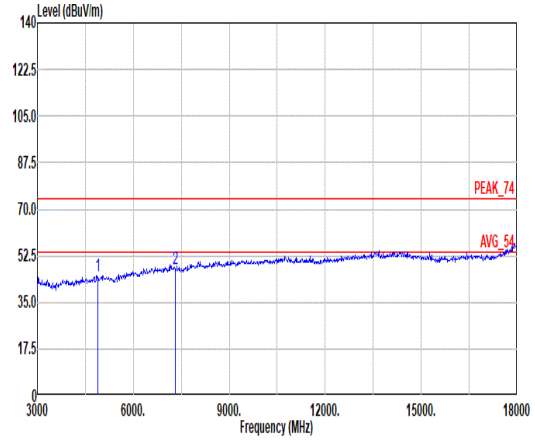


Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:5.100kHz SWT:Auto

	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	88.67	------	------	78.62	27.50	8.78	36.26	10.03	396	105	AVERAGE

Mode	9	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_231030 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 2494.00 50.59 74.00 -23.41 40.26 27.70 8.88 36.28 10.03 396 105 PEAK	Blank
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:5.100kHz 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 2484.28 41.40 54.00 -12.60 31.13 27.64 8.87 36.27 10.03 396 105 AVERAGE	Blank

Mode	9
	Harmonic
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz
ANT	1

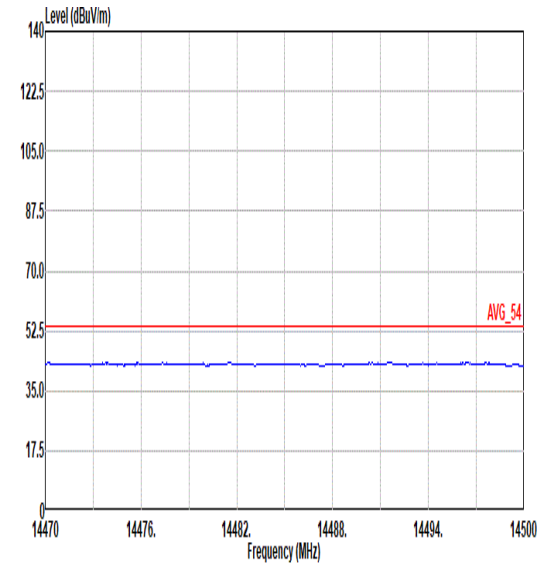
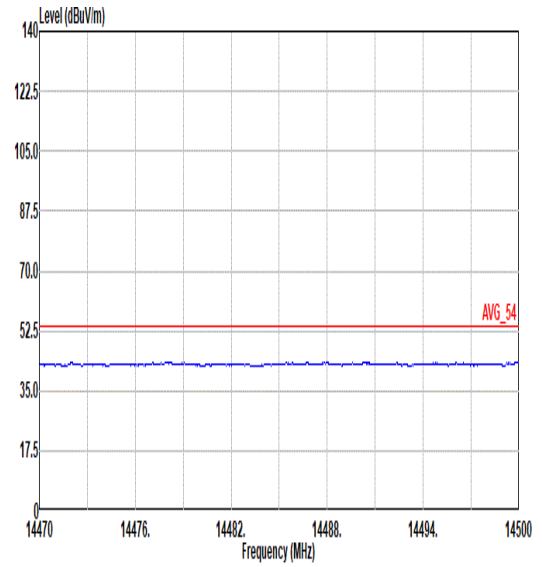
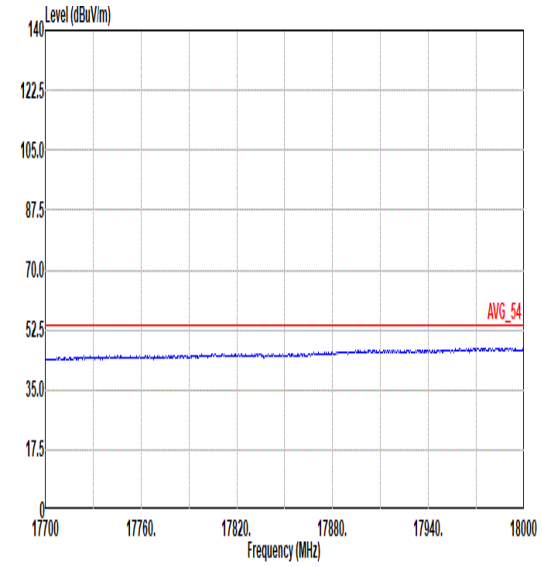
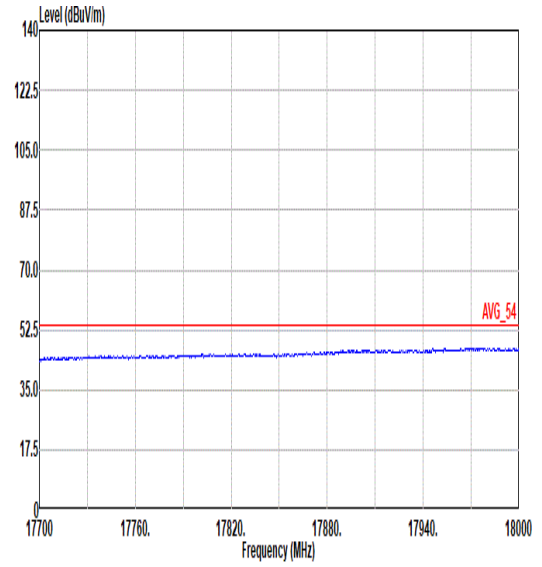
Pol.	Horizontal	Vertical
Peak Avg		

Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 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	44.51	74.00	-29.49	36.26	32.58	12.56	37.56	0.67	--	--	PEAK
2	7320.00	48.45	74.00	-25.55	34.40	36.86	15.45	38.61	0.35	300	239	PEAK
3	7320.00	39.71	54.00	-14.29	25.66	36.86	15.45	38.61	0.35	300	239	Average

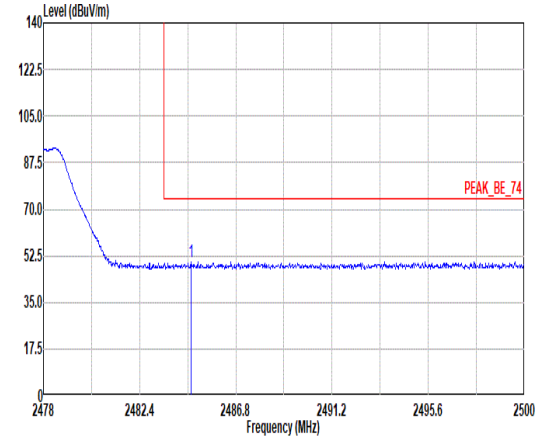
Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL

	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	44.89	74.00	-29.11	36.64	32.58	12.56	37.56	0.67	--	--	PEAK
2	7320.00	47.60	74.00	-26.40	33.55	36.86	15.45	38.61	0.35	--	--	PEAK

Mode	9	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

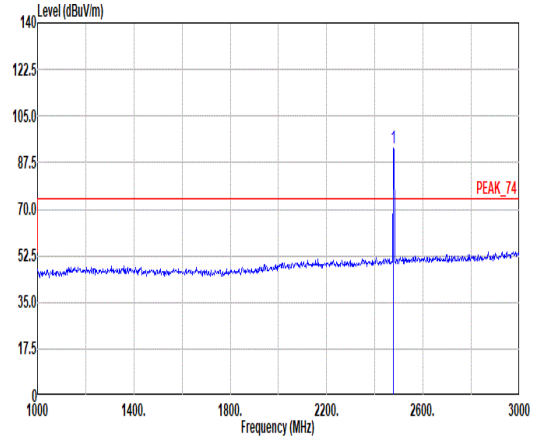
Mode	10	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH38_2478MHz	
ANT	1	
Pol.	Horizontal	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

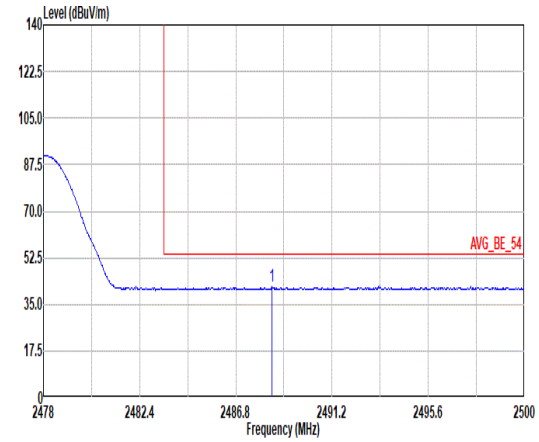
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2484.75	50.42	74.00	-23.58	40.14	27.65	8.87	36.27	10.03	100	40	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

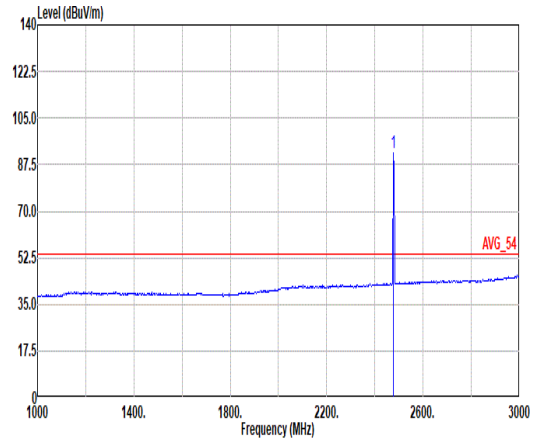
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2478.00	93.19	------	------	83.00	27.58	8.85	36.27	10.03	100	40	PEAK

Avg



Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:5.100kHz 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	2488.45	41.75	54.00	-12.25	31.45	27.68	8.87	36.28	10.03	100	40	AVERAGE

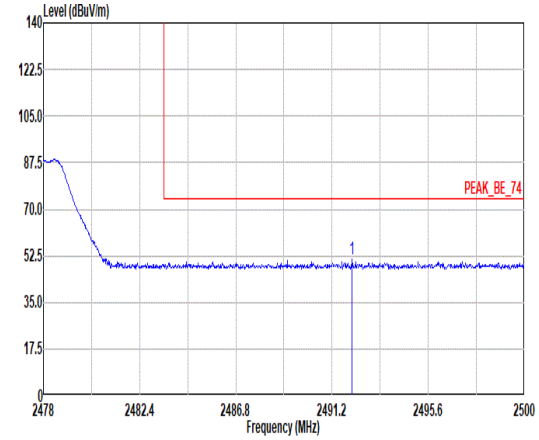


Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL
: RBW:1000.000kHz VBW:5.100kHz SWT:Auto

	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	91.88	------	------	81.69	27.58	8.85	36.27	10.03	100	40	AVERAGE

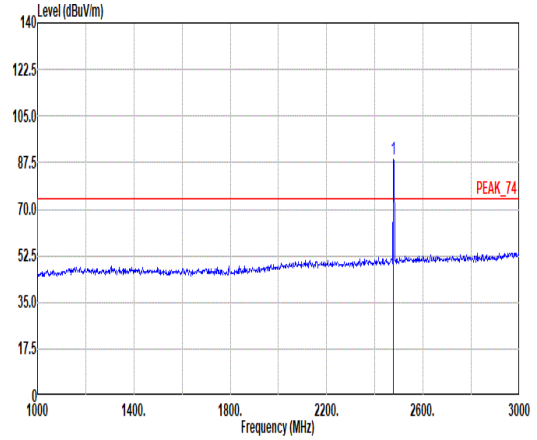
Mode	10	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH38_2478MHz	
ANT	1	
Pol.	Vertical	Fundamental

Peak



Site : 03CH20-HY
Condition: PEAK_BE_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

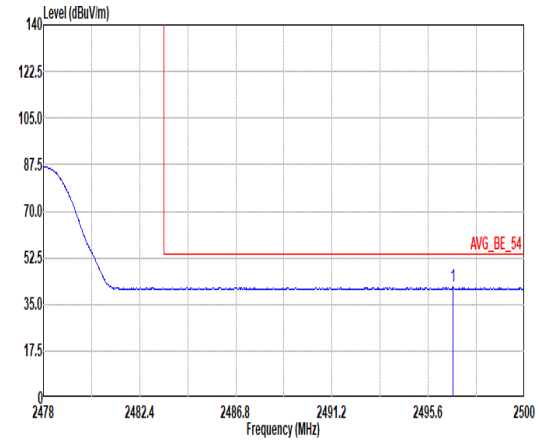
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2492.12	51.18	74.00	-22.82	40.85	27.70	8.88	36.28	10.03	389	204	PEAK



Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

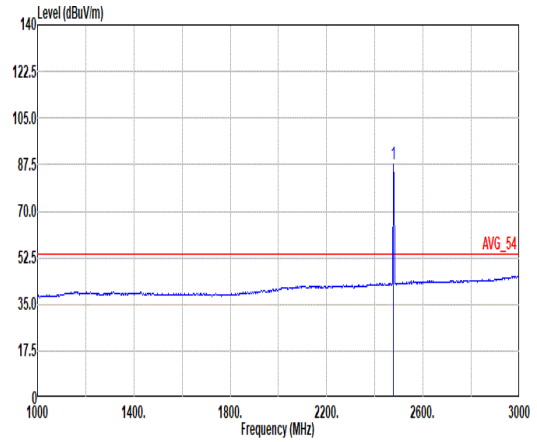
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2478.00	88.82	------	------	78.63	27.58	8.85	36.27	10.03	389	204	PEAK

Avg



Site : 03CH20-HY
Condition: AVG_BE_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:5.100kHz SWT:Auto

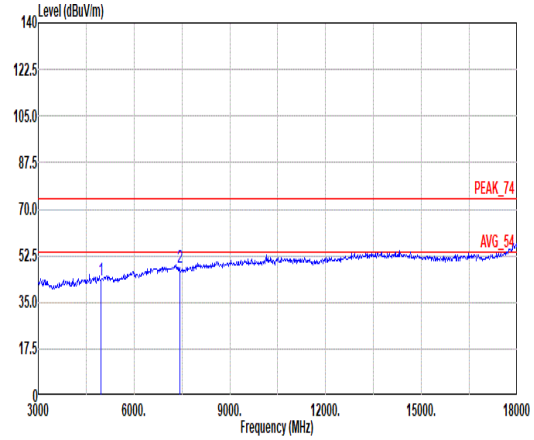
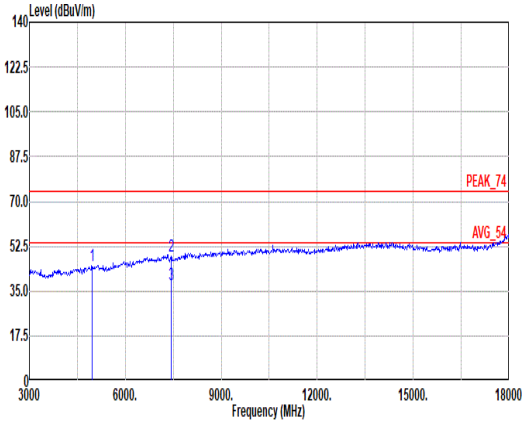
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2496.72	41.69	54.00	-12.31	31.35	27.70	8.89	36.28	10.03	389	204	AVERAGE



Site : 03CH20-HY
Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
: RBW:1000.000kHz VBW:5.100kHz 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	87.52	------	------	77.33	27.58	8.85	36.27	10.03	389	204	AVERAGE

Mode	10
	Harmonic
	2400-2483.5_Bluetooth-LE GSFK_CH38_2478MHz
ANT	1

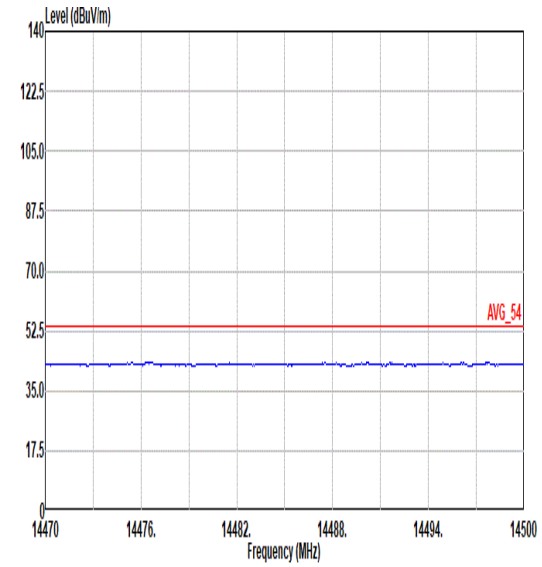
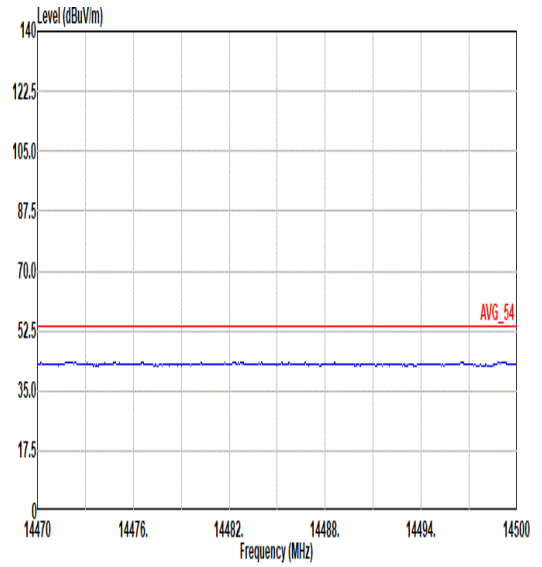
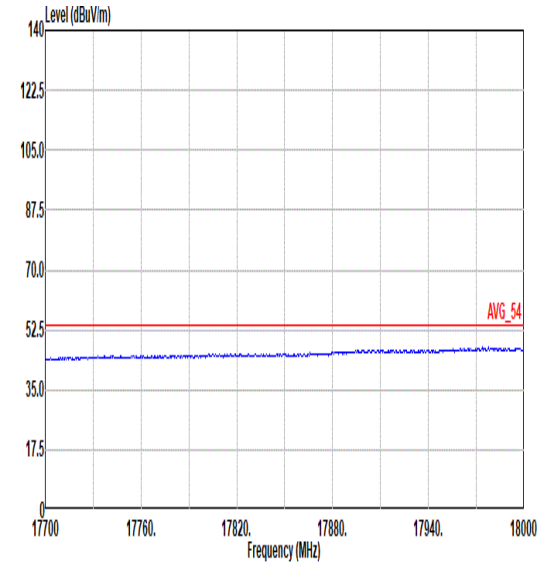
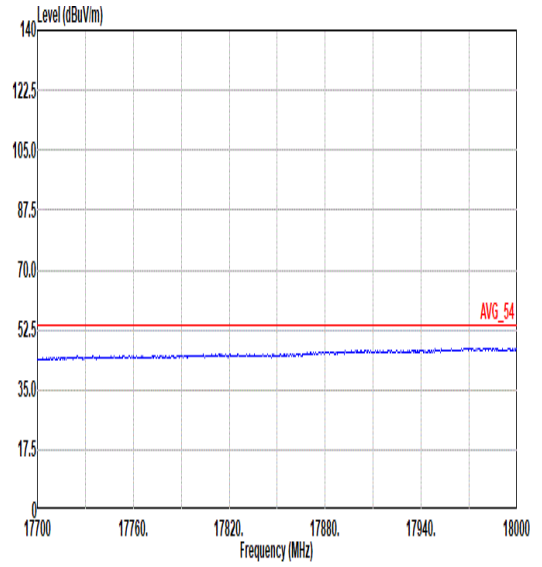
Pol.	Horizontal	Vertical
Peak Avg		

Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 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	43.51	74.00	-30.49	35.02	32.92	12.69	37.63	0.51	--	--	PEAK
2	7434.00	47.90	74.00	-26.10	34.24	36.46	15.58	38.71	0.33	--	--	PEAK

Site : 03CH20-HY
Condition: PEAK_74 3m HF_9120D_02360_231030 VERTICAL

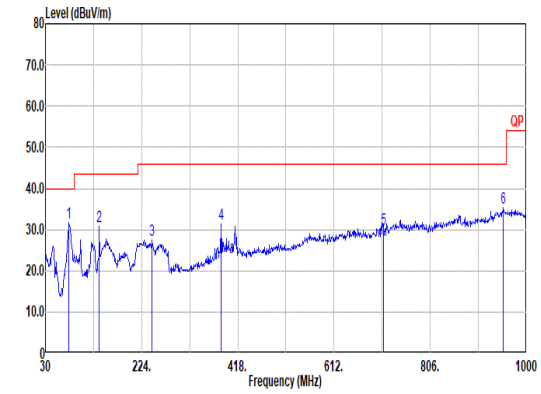
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4956.00	44.93	74.00	-29.07	36.44	32.92	12.69	37.63	0.51	--	--	PEAK
2	7434.00	48.40	74.00	-25.60	34.74	36.46	15.58	38.71	0.33	100	42	PEAK
3	7434.00	37.74	54.00	-16.26	24.08	36.46	15.58	38.71	0.33	100	42	Average

Mode	10	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH38_2478MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

Mode	11
	LF
	2400-2483.5_Bluetooth-LE GSFK_CH38_2478MHz
ANT	1

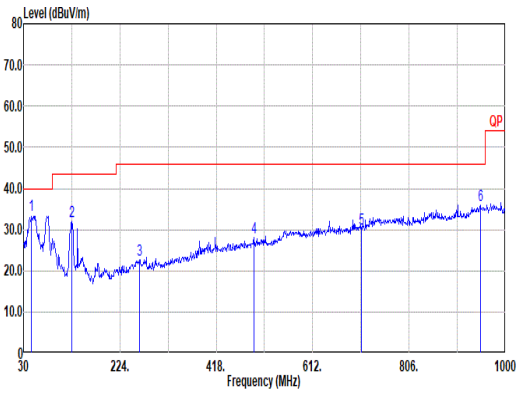
Pol.	Horizontal	Vertical

QP/ Peak



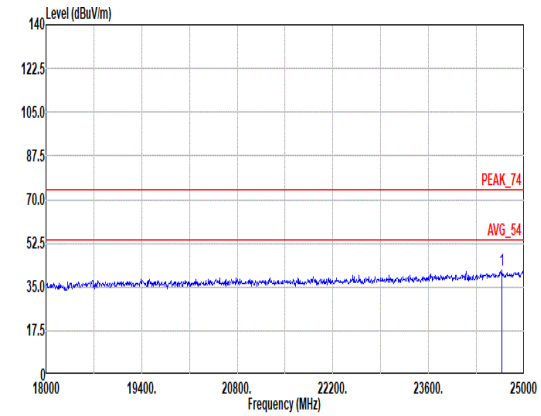
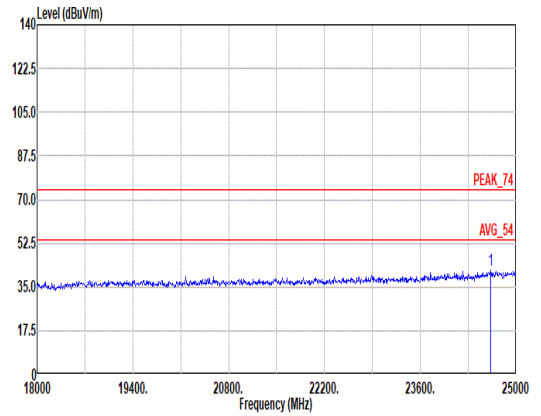
Site : 03CH20-HY
Condition: QP 3m Bilog_55606 & 08_231020 HORIZONTAL

	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	77.53	31.75	40.00	-8.25	51.83	13.59	1.67	35.54	0.20	--	--	Peak
2	138.64	30.77	43.50	-12.73	45.97	17.82	2.20	35.45	0.23	--	--	Peak
3	245.34	27.36	46.00	-18.64	41.59	17.94	2.87	35.23	0.19	--	--	Peak
4	384.05	31.42	46.00	-14.58	41.35	21.19	3.57	34.84	0.15	--	--	Peak
5	711.91	30.07	46.00	-15.93	32.11	26.88	4.80	33.88	0.16	--	--	Peak
6	953.44	35.25	46.00	-10.75	31.72	30.89	5.51	32.96	0.09	--	--	Peak



Site : 03CH20-HY
Condition: QP 3m Bilog_55606 & 08_231020 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	45.52	33.53	40.00	-6.47	50.81	16.78	1.30	35.58	0.22	--	--	Peak
2	127.00	32.15	43.50	-11.35	47.60	17.69	2.11	35.46	0.21	--	--	Peak
3	263.77	22.60	46.00	-23.40	34.34	20.30	2.97	35.20	0.19	--	--	Peak
4	493.66	28.14	46.00	-17.86	34.82	23.79	4.03	34.63	0.13	--	--	Peak
5	709.97	30.09	46.00	-15.91	32.22	26.81	4.79	33.89	0.16	--	--	Peak
6	949.56	35.85	46.00	-10.15	32.47	30.76	5.50	32.98	0.10	--	--	Peak

Mode	24	
	SHF	
	2400-2483.5_Bluetooth-LE GSFK_CH38_2478MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH20-HY Condition: PEAK_74 1m BBHA9170_1224_240624 HORIZONTAL Mode : 24 Setting : Plane : 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 24671.00 41.74 74.00 -32.26 36.46 39.30 28.92 53.40 -9.54 -- -- Peak	 Site : 03CH20-HY Condition: PEAK_74 1m BBHA9170_1224_240624 VERTICAL Mode : 24 Setting : Plane : 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 24629.00 41.68 74.00 -32.32 36.41 39.34 28.89 53.42 -9.54 -- -- Peak

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 1Mbps	61.06	381	2.62	2.7KHz
Bluetooth - LE for 2Mbps	31.73	198	5.05	5.1KHz

Bluetooth - LE for 1Mbps	Bluetooth - LE for 2Mbps