



FCC RADIO TEST REPORT

FCC ID : UZ7BT000375B
Equipment : BLE Battery
Brand Name : Zebra
Model Name : BT-000375B
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Manufacturer : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Feb. 04, 2025 and testing was performed from Feb. 10, 2025 to Feb. 20, 2025. 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.

Approved by: Louis Wu

Sportun 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



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	1.13 dB under the limit at 7320.00 MHz
3.6	15.207	AC Conducted Emission	Pass	22.1 dB under the limit at 0.1635 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: Keven Cheng

Report Producer: Sandy Hsieh



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	BLE Battery
Brand Name	Zebra
Model Name	BT-000375B
FCC ID	UZ7BT000375B
EUT supports Radios application	Bluetooth-LE
HW Version	DV2
EUT Stage	Identical Prototype

Remark: The EUT's information above is declared by manufacturer.

Supported Unit Used in Test Configuration and System				
Adapter USB Wall Charger	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US
Terminal 1	Brand Name	Zebra	Part Number	MC3401
Terminal 2	Brand Name	Zebra	Part Number	MC345A
Terminal 3	Brand Name	Zebra	Part Number	MC345B
Type C USB Cable	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
USB Cable Cup	Brand Name	Zebra	Part Number	CBL-MC33-USBCHG-01
USB-C PTT Headset	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Transmitter / Receiver Frequency Range	2400 MHz ~ 2483.5 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel (37 hopping + 3 advertising channel)
Maximum Output Power to Antenna	Bluetooth – LE (1Mbps): -0.90 dBm / 0.0008 W Bluetooth – LE (2Mbps): -0.90 dBm / 0.0008 W
99% Occupied Bandwidth	1.041 MHz for 1Mbps 2.056 MHz for 2Mbps
Antenna Type / Gain	PIFA Antenna with gain -0.43 dBi
Type of Modulation	Bluetooth-LE: GFSK

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

1.3 Modification of EUT

No modifications made to the EUT during the testing.



1.4 Testing Location

Test Site	Sportun 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.	Sportun Site No. CO07-HY, 03CH16-HY , TH05-HY

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

FCC designation No.: TW3786

1.5 Applicable Standards

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

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

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

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



2.2 Test Mode

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

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

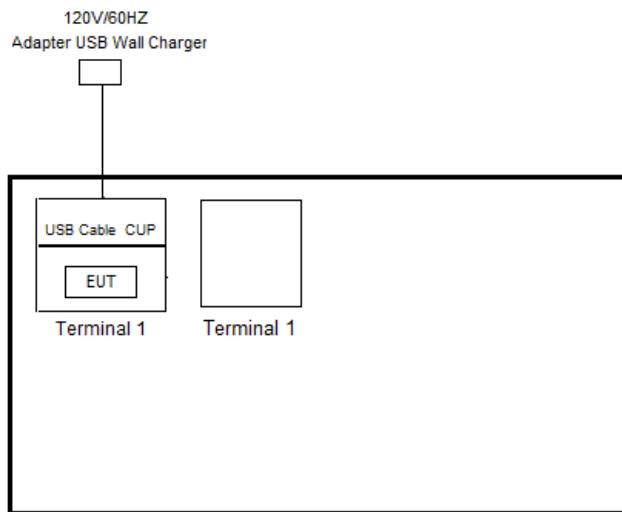
Summary table of Test Cases	
Test Item	Data Rate / Modulation
Conducted Test Cases	Bluetooth – LE / GFSK
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
	Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps
AC Conducted Emission	Mode 1: EUT with Terminal 1 + Bluetooth Link + Adapter USB Wall Charger

Remark:

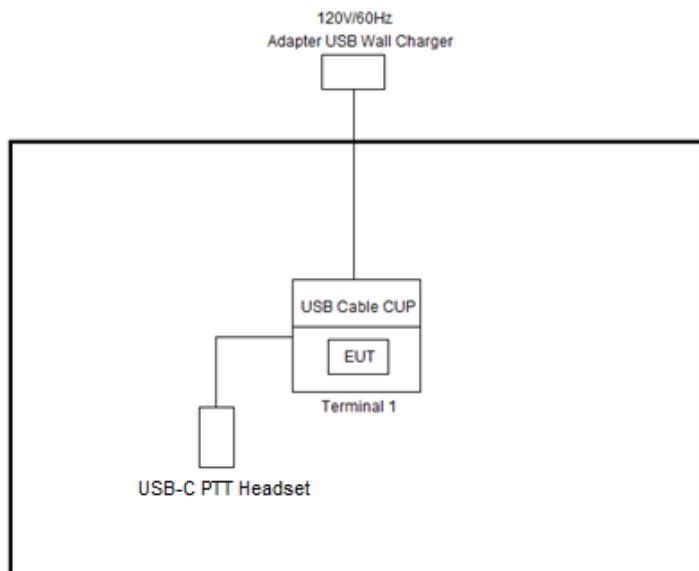
1. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.
2. The detailed test modes are showed in Appendix C.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<Bluetooth -LE Tx Mode>





2.4 EUT Operation Test Setup

The RF test items, utility “adb command” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.5 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.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

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.

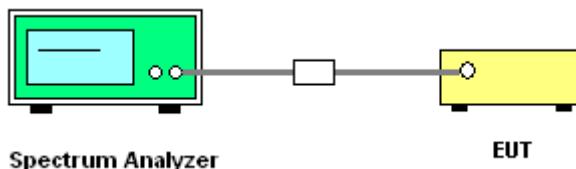
3.1.2 Measuring Instruments

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) $\geq 3 * \text{RBW}$.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

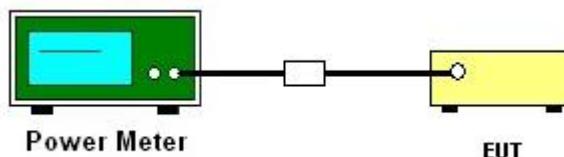
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.3 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.

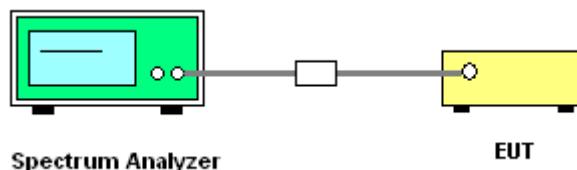
3.3.2 Measuring Instruments

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.

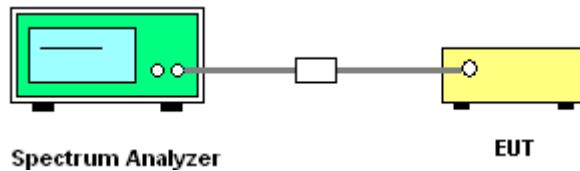
3.4.2 Measuring Instruments

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

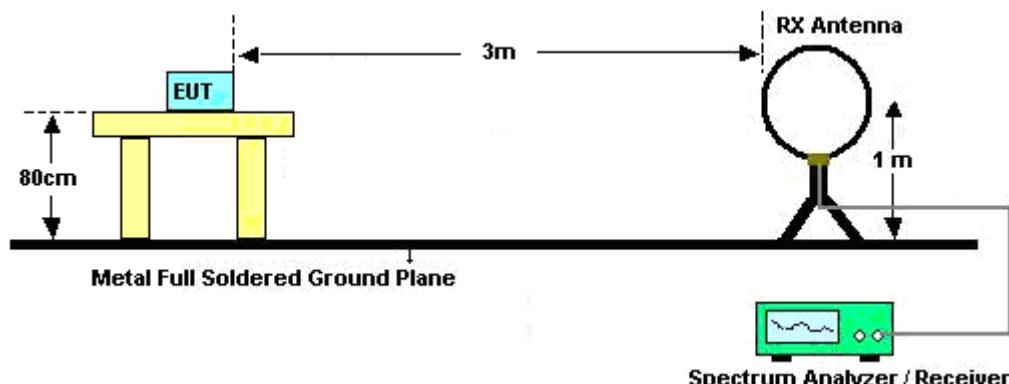
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

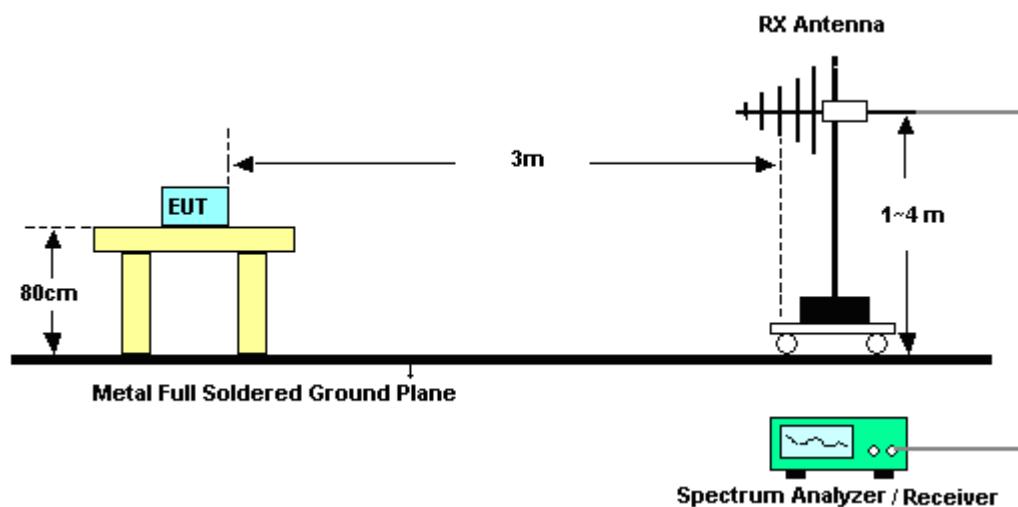
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

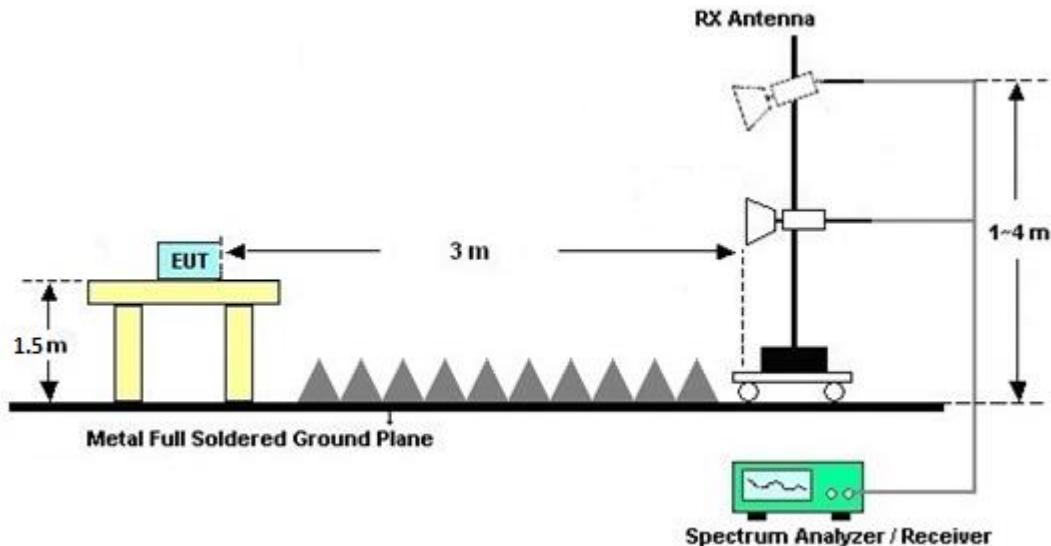
For radiated test below 30MHz



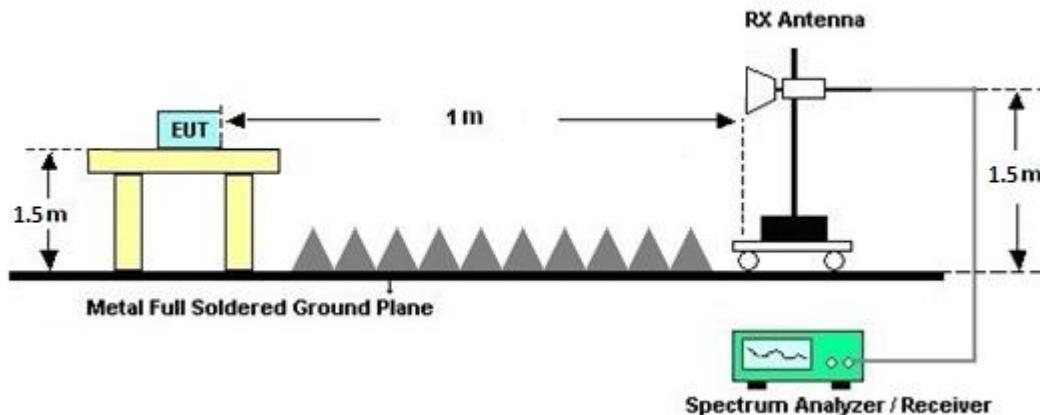
For radiated test from 30MHz to 1GHz



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 (dB μ V)	
	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.

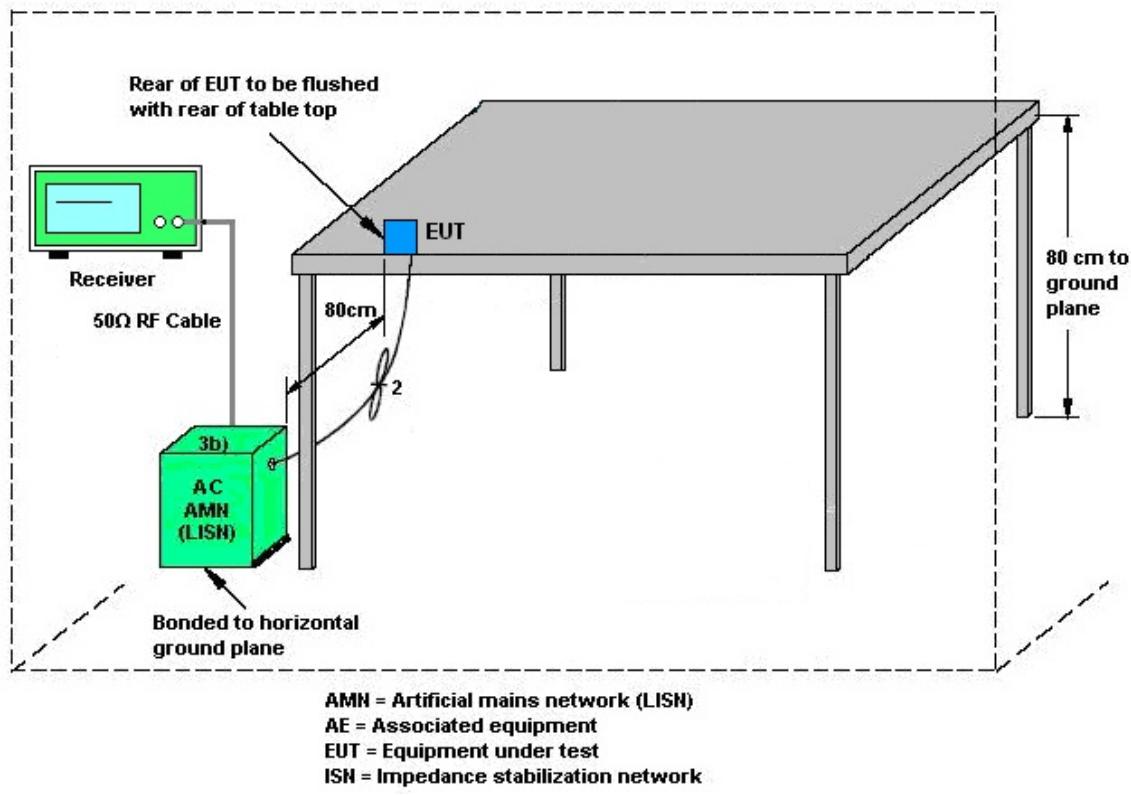
3.6.2 Measuring Instruments

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



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Feb. 22, 2025~Mar. 04, 2025	Aug. 28, 2025	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1224	18GHz~40GHz	Jun. 24, 2024	Feb. 22, 2025~Mar. 04, 2025	Jun. 23, 2025	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 22, 2024	Feb. 22, 2025~Mar. 04, 2025	Nov. 21, 2025	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 05, 2024	Feb. 22, 2025~Mar. 04, 2025	Oct. 04, 2025	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 28, 2024	Feb. 22, 2025~Mar. 04, 2025	Mar. 27, 2025	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 02, 2024	Feb. 22, 2025~Mar. 04, 2025	Jul. 01, 2025	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 05, 2024	Feb. 22, 2025~Mar. 04, 2025	Dec. 04, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 24, 2024	Feb. 22, 2025~Mar. 04, 2025	Dec. 23, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Feb. 22, 2025~Mar. 04, 2025	May 26, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-153 0-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 14, 2025	Feb. 22, 2025~Mar. 04, 2025	Jan. 13, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60 ST	SN3	3GHz High Pass Filter	Jun. 28, 2024	Feb. 22, 2025~Mar. 04, 2025	Jun. 27, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Feb. 22, 2025~Mar. 04, 2025	Mar. 05, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5 757,805935/4 ,802434/4	30MHz~18GHz	Aug. 07, 2024	Feb. 22, 2025~Mar. 04, 2025	Aug. 06, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40GHz	Dec. 31, 2024	Feb. 22, 2025~Mar. 04, 2025	Dec. 30, 2025	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Feb. 22, 2025~Mar. 04, 2025	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Feb. 22, 2025~Mar. 04, 2025	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 22, 2025~Mar. 04, 2025	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 22, 2025~Mar. 04, 2025	N/A	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Feb. 17, 2025~Feb. 26, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Dec. 27, 2024	Feb. 17, 2025~Feb. 26, 2025	Dec. 26, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Aug. 14, 2024	Feb. 17, 2025~Feb. 26, 2025	Aug. 13, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Feb. 17, 2025~Feb. 26, 2025	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Feb. 17, 2025~Feb. 26, 2025	N/A	Conducted (TH05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Feb. 25, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 25, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Feb. 25, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Feb. 25, 2025	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Feb. 25, 2025	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Feb. 25, 2025	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Feb. 25, 2025	Sep. 22, 2025	Conduction (CO07-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	3.70 dB
-------------------------------------------------------------------------------	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	6.50 dB
-------------------------------------------------------------------------------	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	4.90 dB
-------------------------------------------------------------------------------	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.10 dB
-------------------------------------------------------------------------------	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.30 dB
-------------------------------------------------------------------------------	---------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu			Temperature:	21~25		°C
Test Date:	2025/2/17~2025/2/26			Relative Humidity:	51~54		%

<u>TEST RESULTS DATA</u> <u>6dB and 99% Occupied Bandwidth</u>								
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	1.039	0.694	0.50	Pass
BLE	1Mbps	1	19	2440	1.041	0.690	0.50	Pass
BLE	1Mbps	1	39	2480	1.041	0.698	0.50	Pass

<u>TEST RESULTS DATA</u> <u>Average Power Table</u>										
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	-1.40	30.00	-0.43	-1.83	36.00	Pass
BLE	1Mbps	1	19	2440	-1.40	30.00	-0.43	-1.83	36.00	Pass
BLE	1Mbps	1	39	2480	-0.90	30.00	-0.43	-1.33	36.00	Pass

<u>TEST RESULTS DATA</u> <u>Peak Power Density</u>										
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	-0.96	-16.24	-0.43	8.00	Pass	
BLE	1Mbps	1	19	2440	-0.89	-16.09	-0.43	8.00	Pass	
BLE	1Mbps	1	39	2480	-0.52	-15.65	-0.43	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	0	2402	2.048	1.143	0.50	Pass
BLE	2Mbps	1	19	2440	2.051	1.146	0.50	Pass
BLE	2Mbps	1	39	2480	2.056	1.148	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	0	2402	-1.40	30.00	-0.43	-1.83	36.00	Pass
BLE	2Mbps	1	19	2440	-1.30	30.00	-0.43	-1.73	36.00	Pass
BLE	2Mbps	1	39	2480	-0.90	30.00	-0.43	-1.33	36.00	Pass

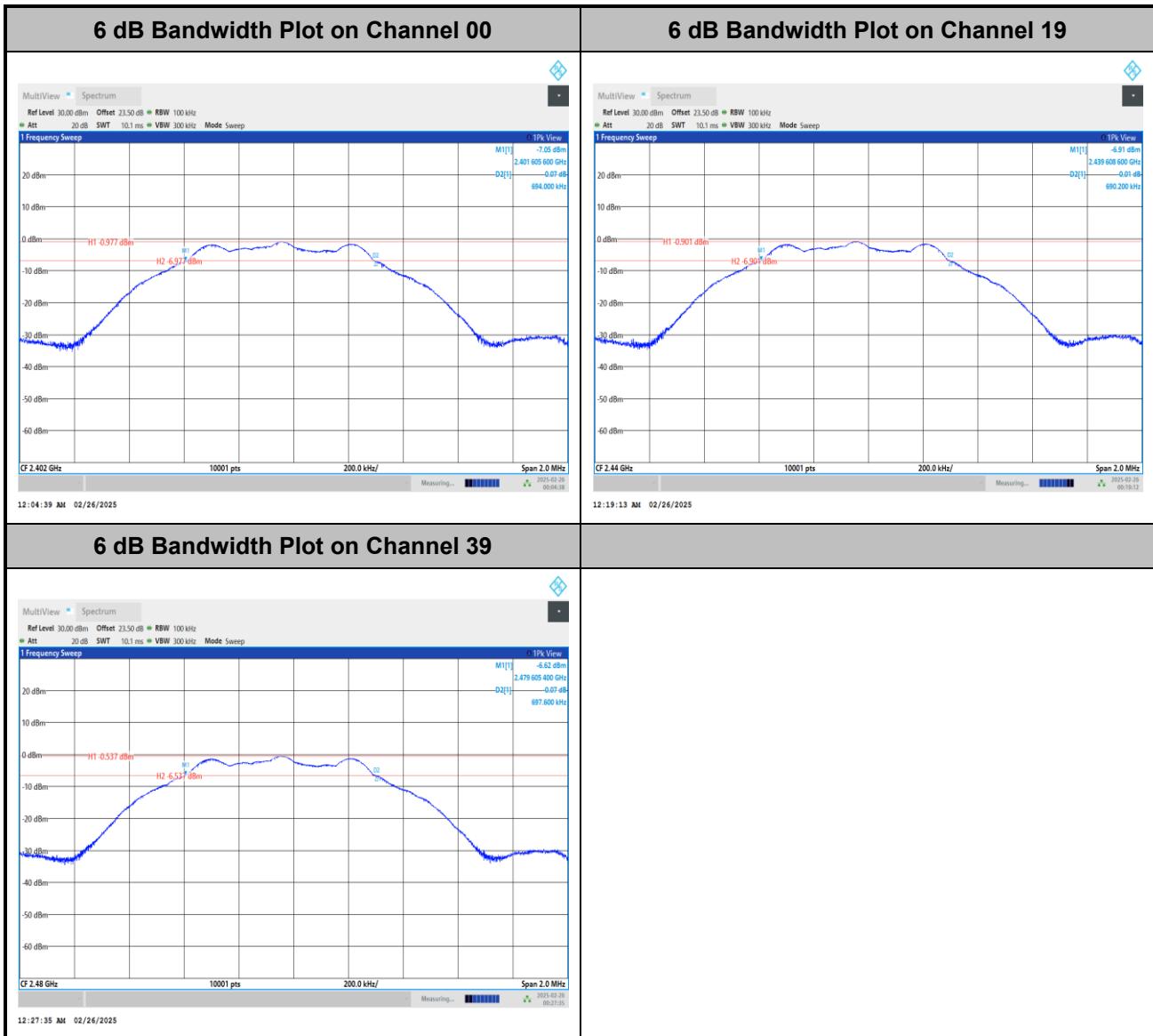
TEST RESULTS DATA
Peak Power Density

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	0	2402	-0.94	-18.74	-0.43	8.00	Pass
BLE	2Mbps	1	19	2440	-0.87	-18.75	-0.43	8.00	Pass
BLE	2Mbps	1	39	2480	-0.51	-18.23	-0.43	8.00	Pass

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

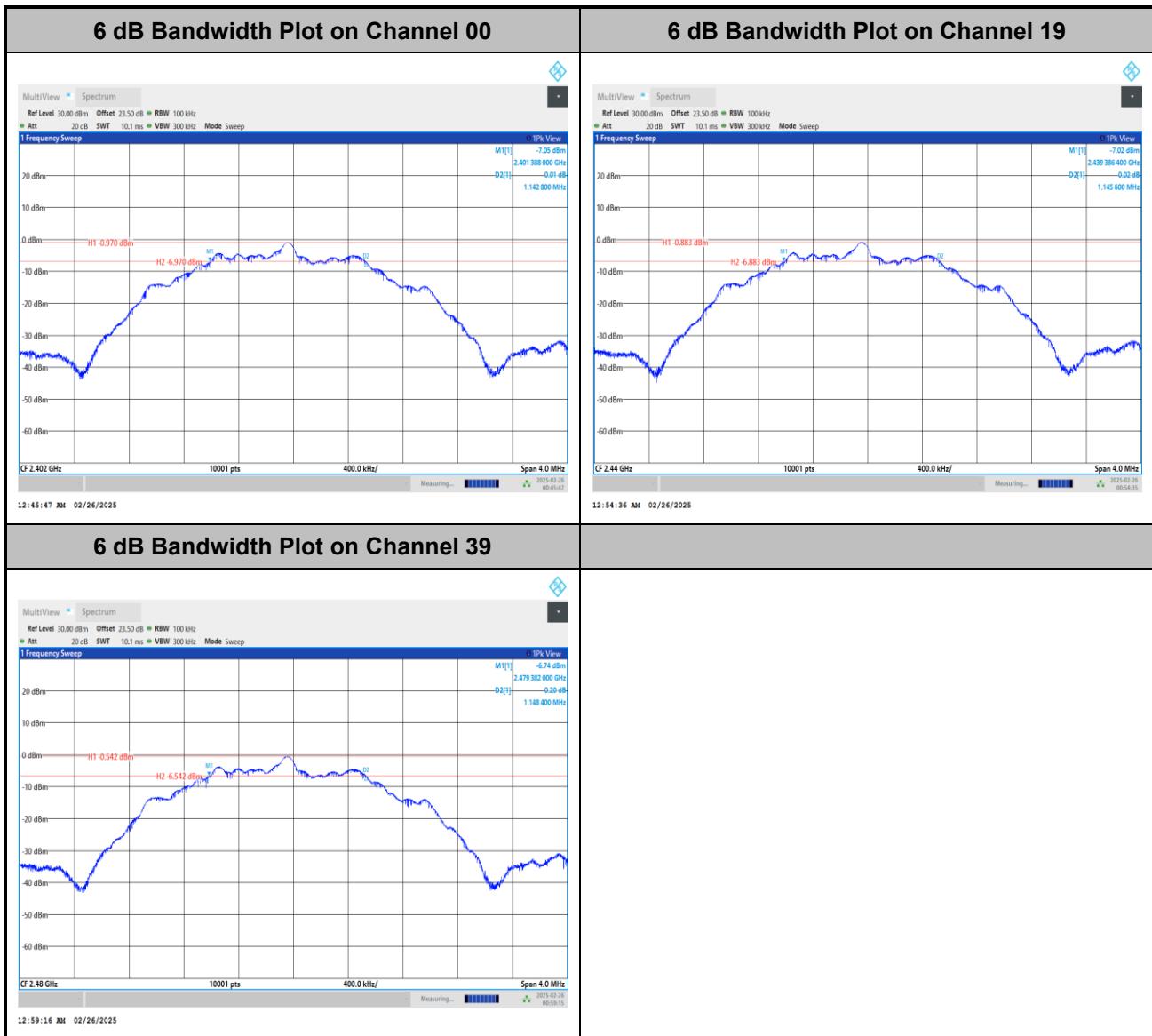
**6dB Bandwidth**

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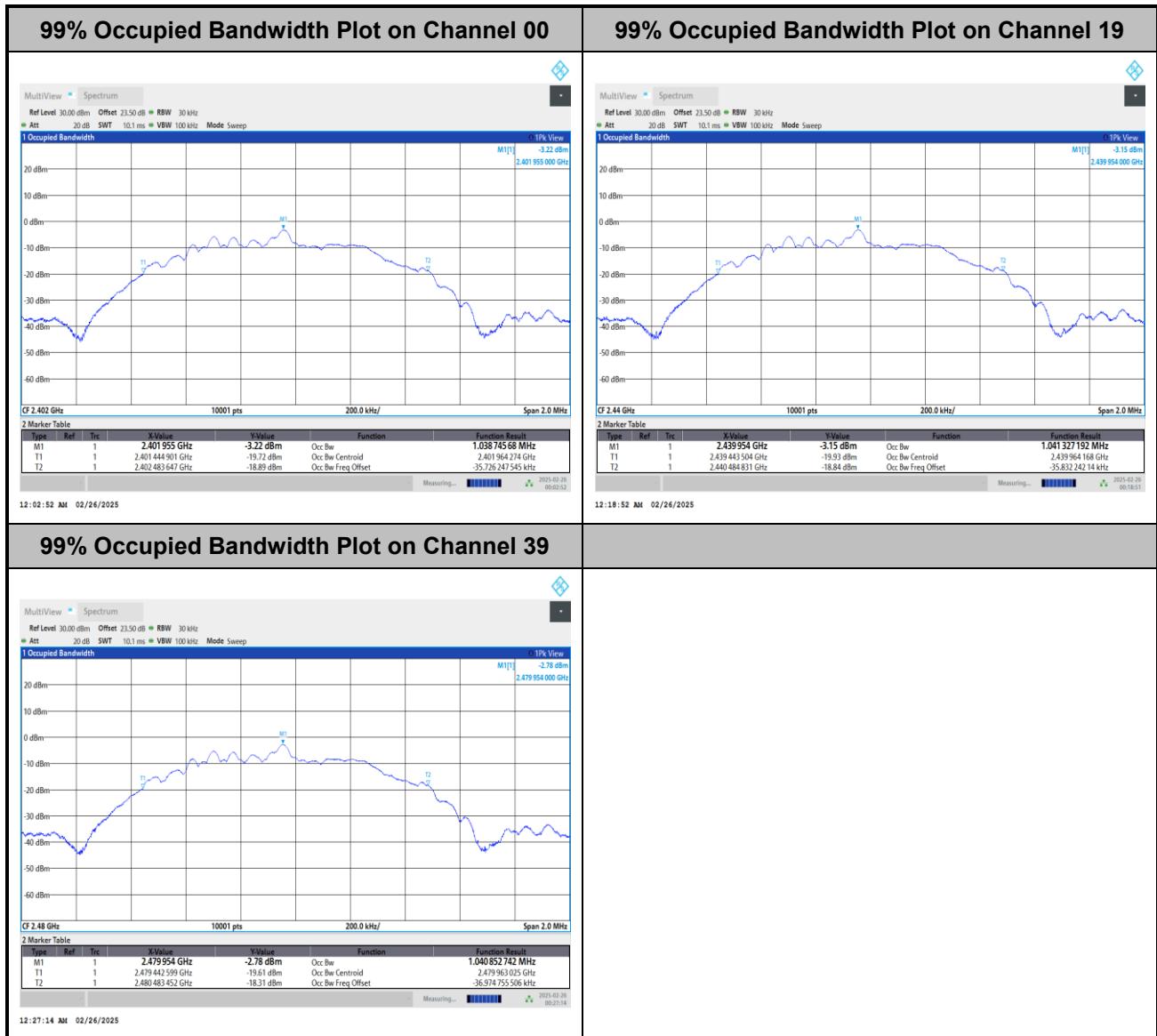


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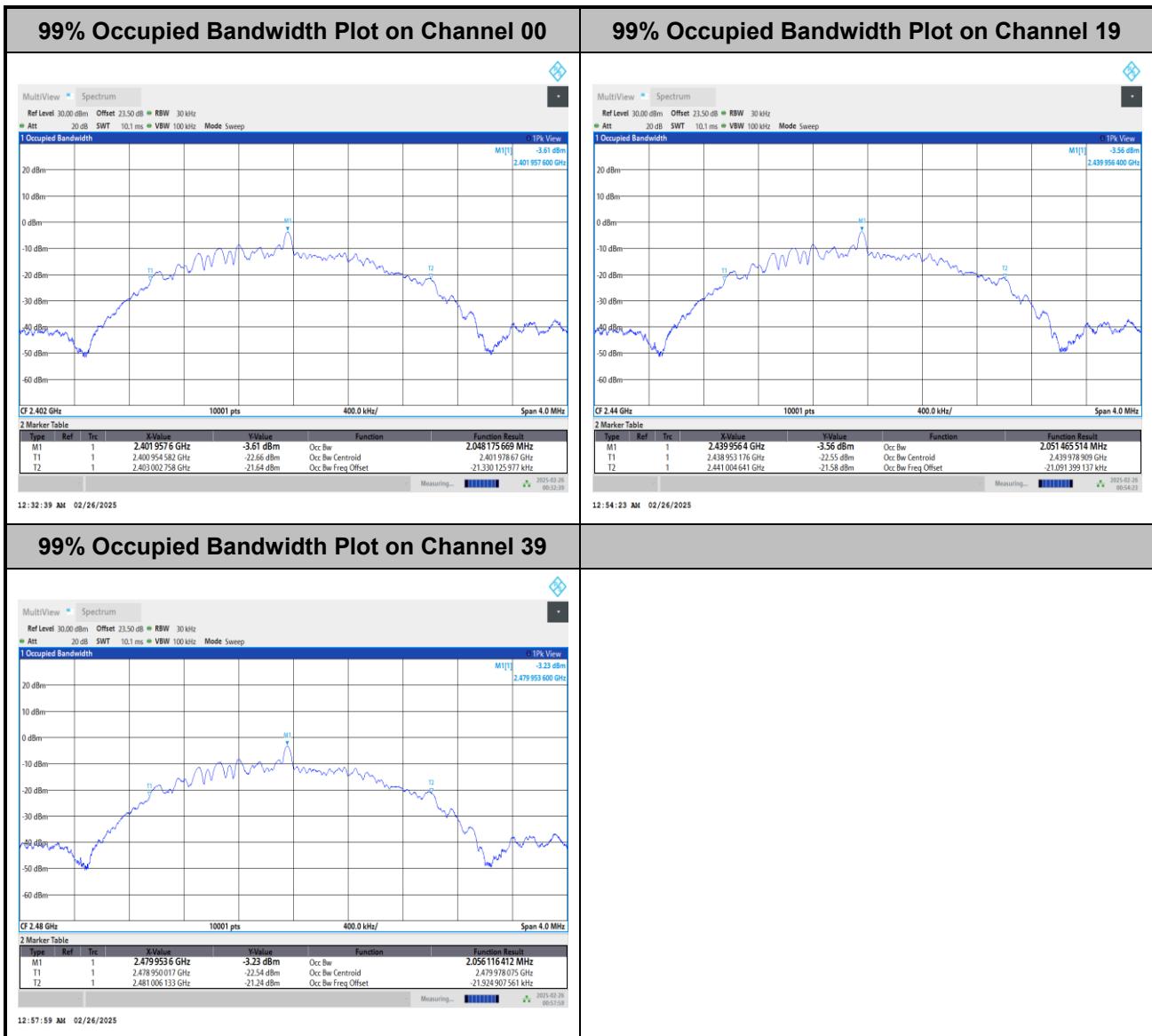
**99% Occupied Bandwidth**

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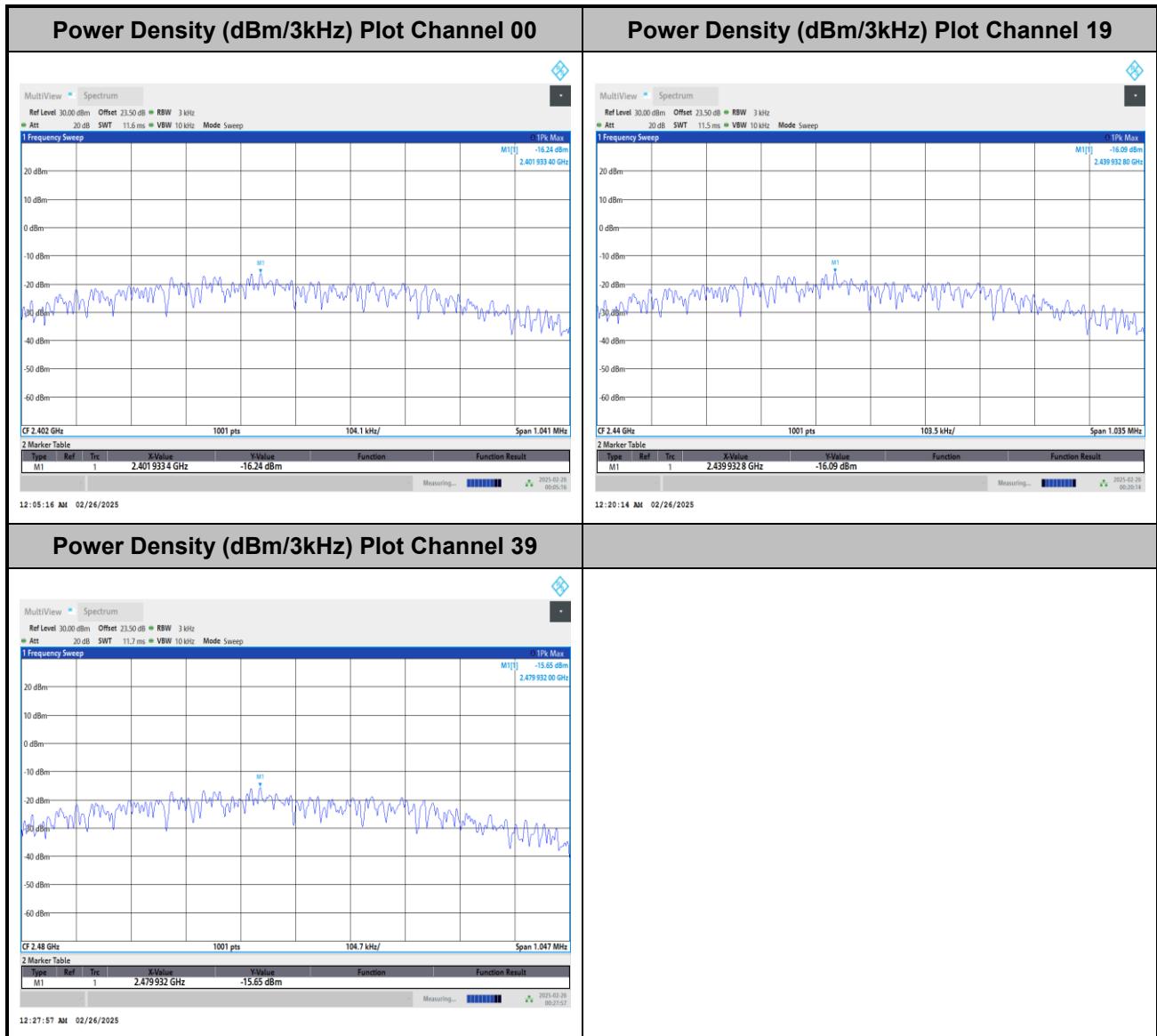
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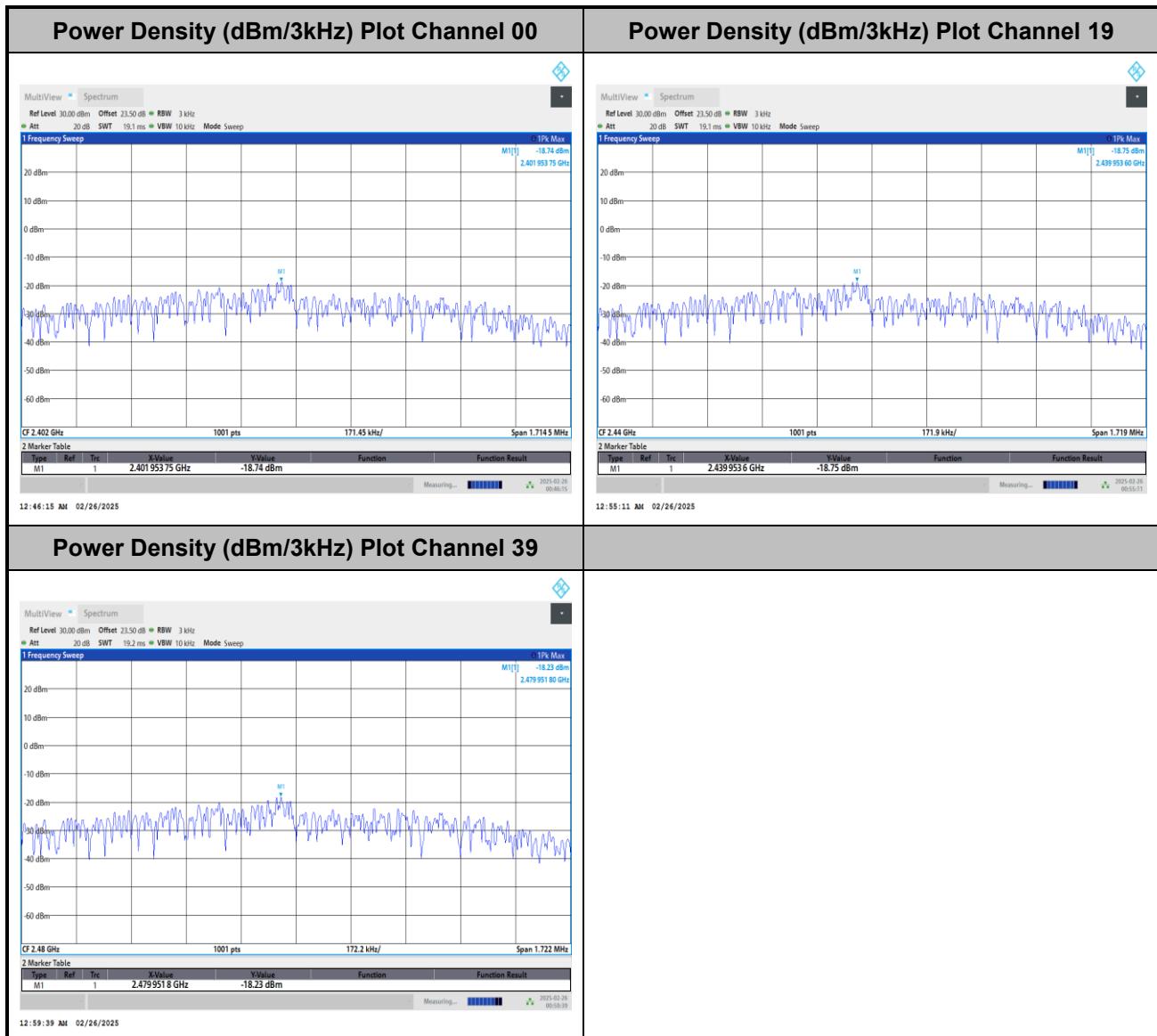
Power Spectral Density (dBm/3kHz)

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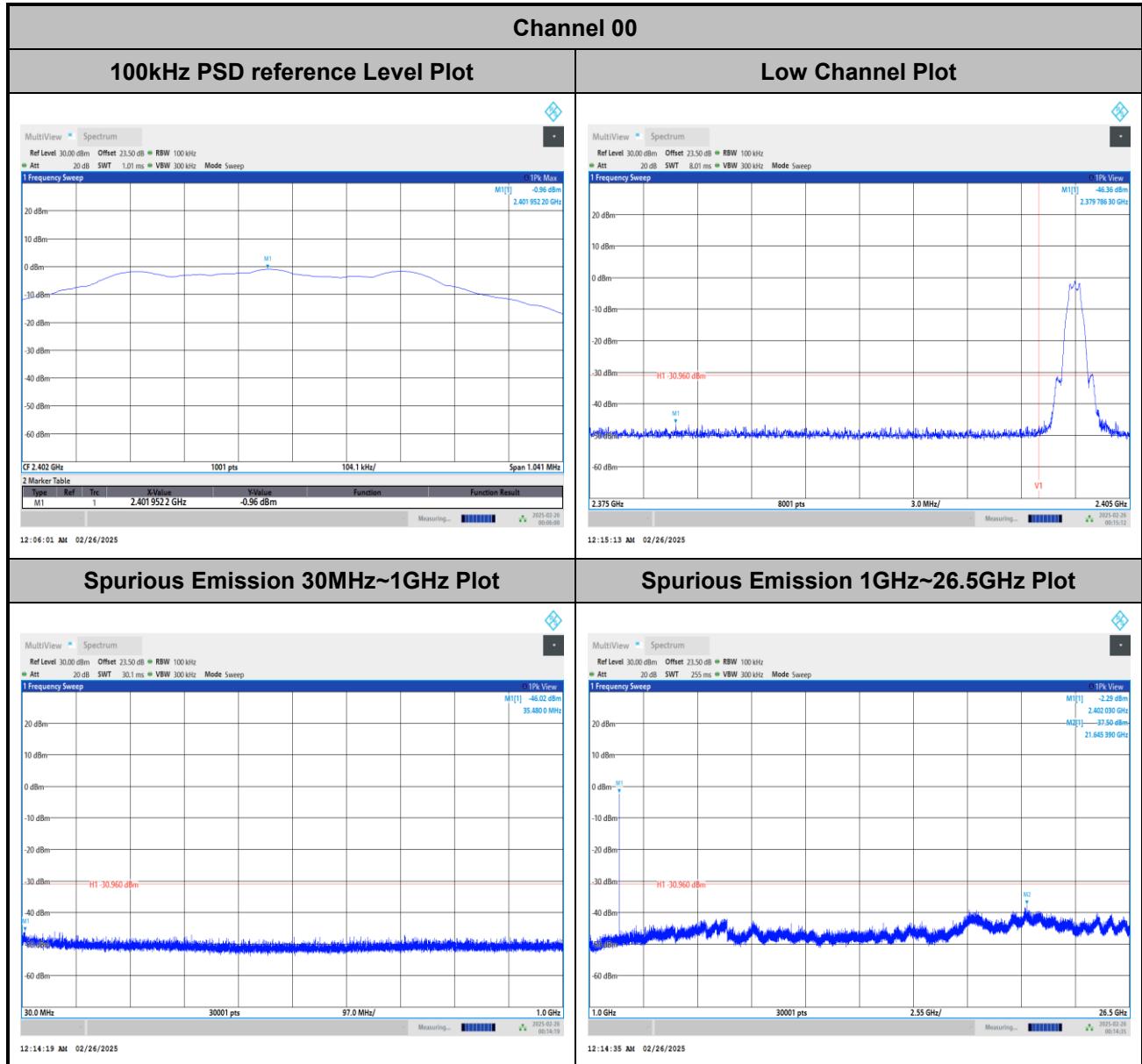


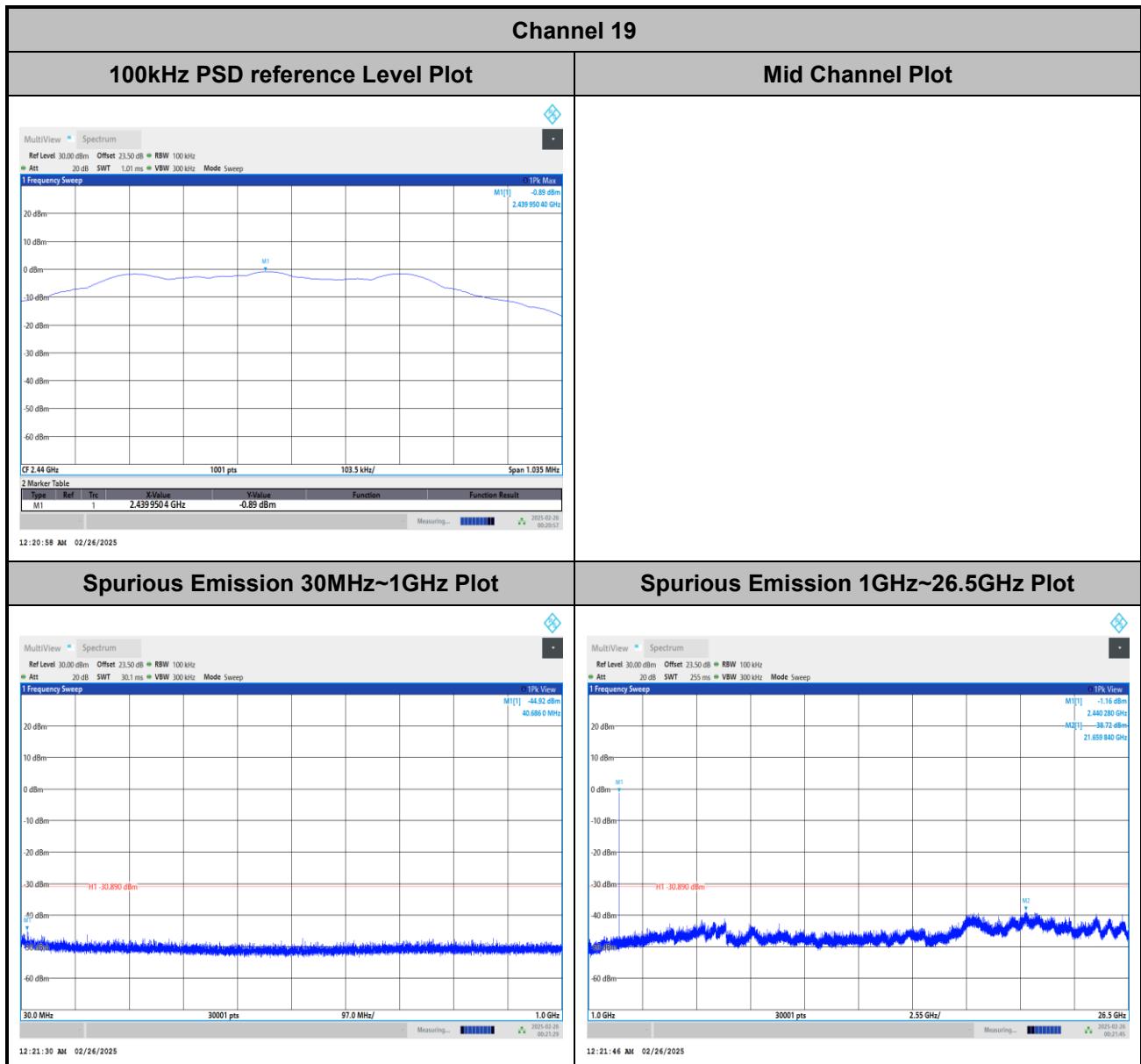
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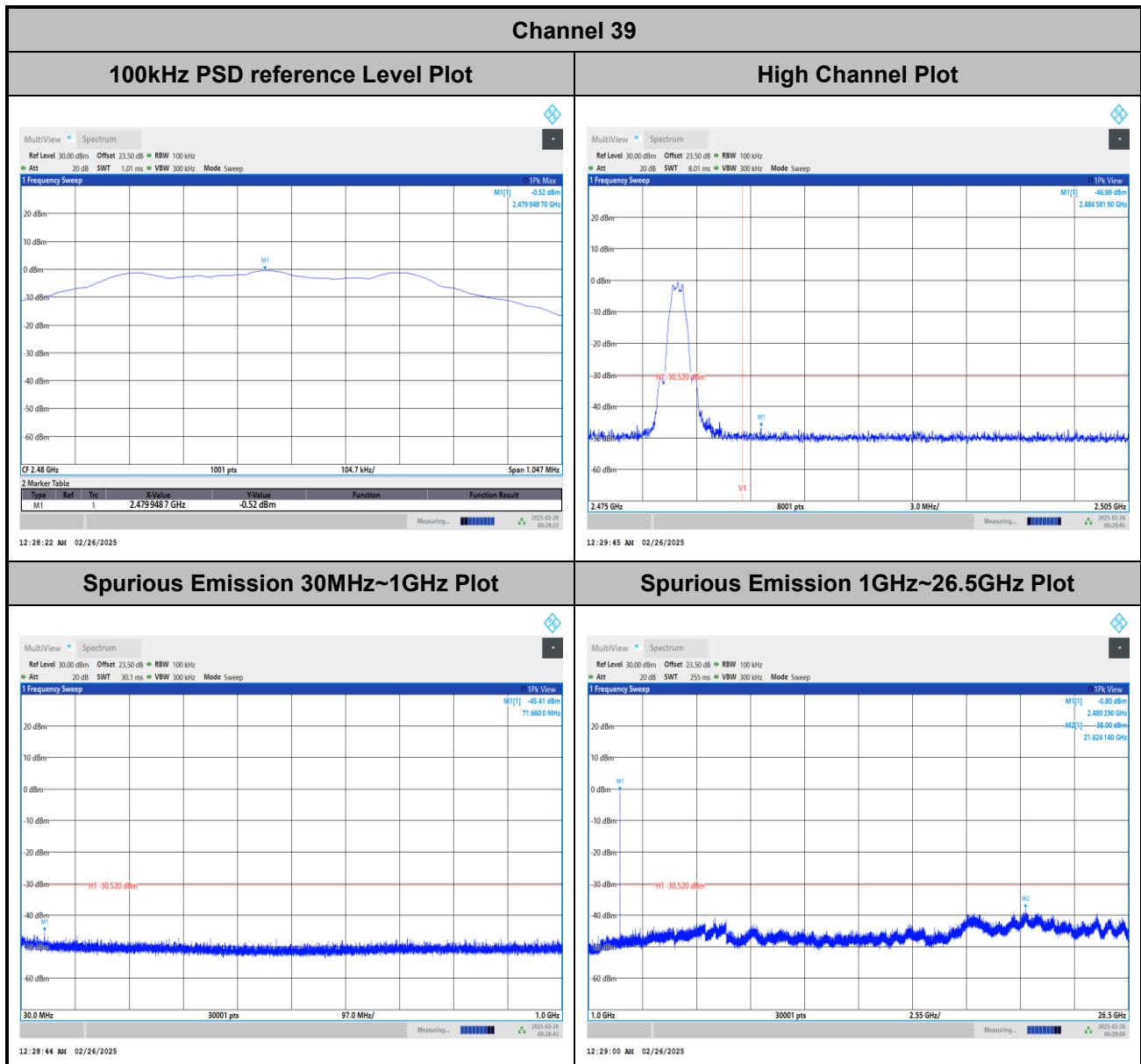


**Band Edge and Conducted Spurious Emission**

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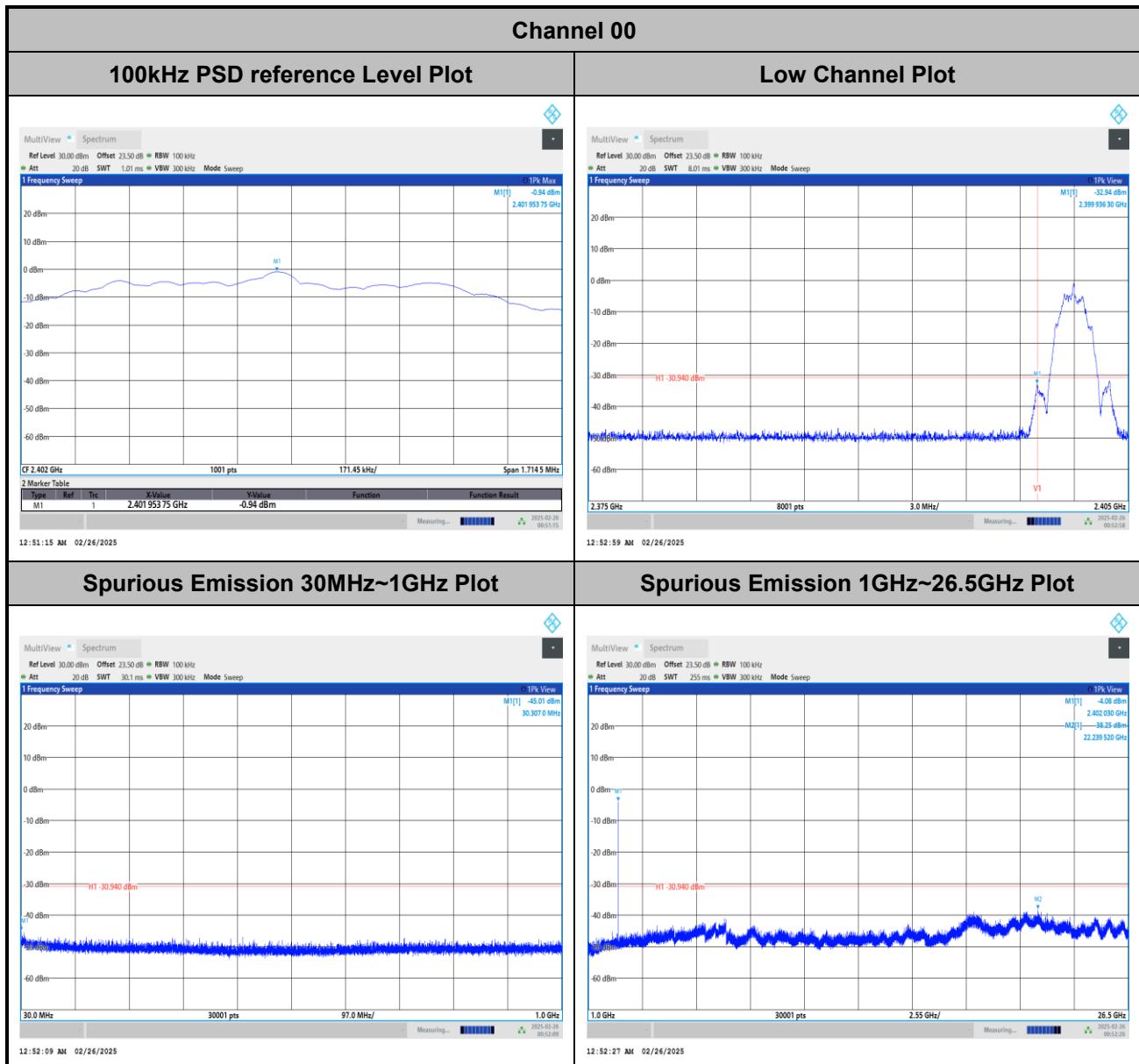


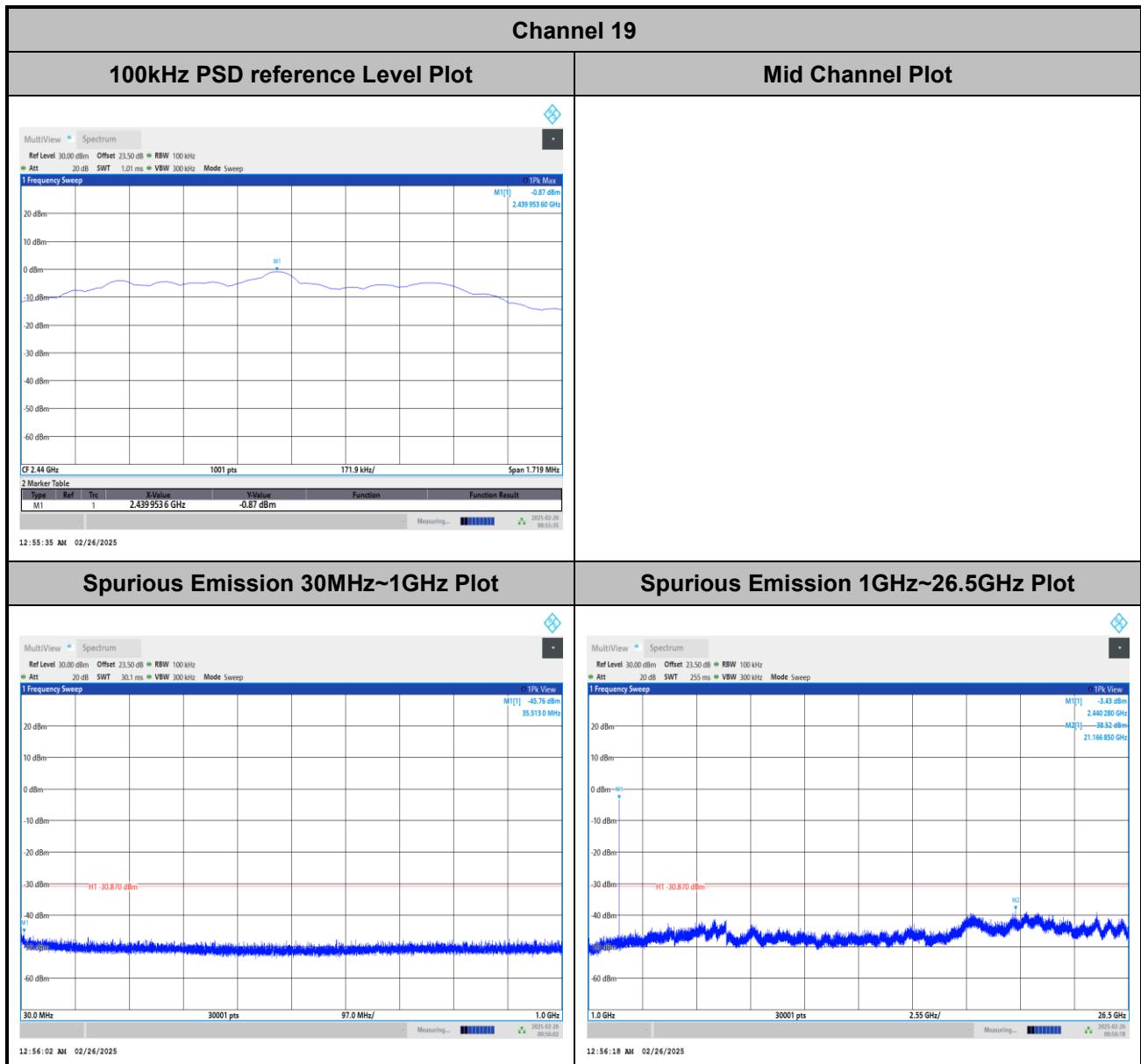


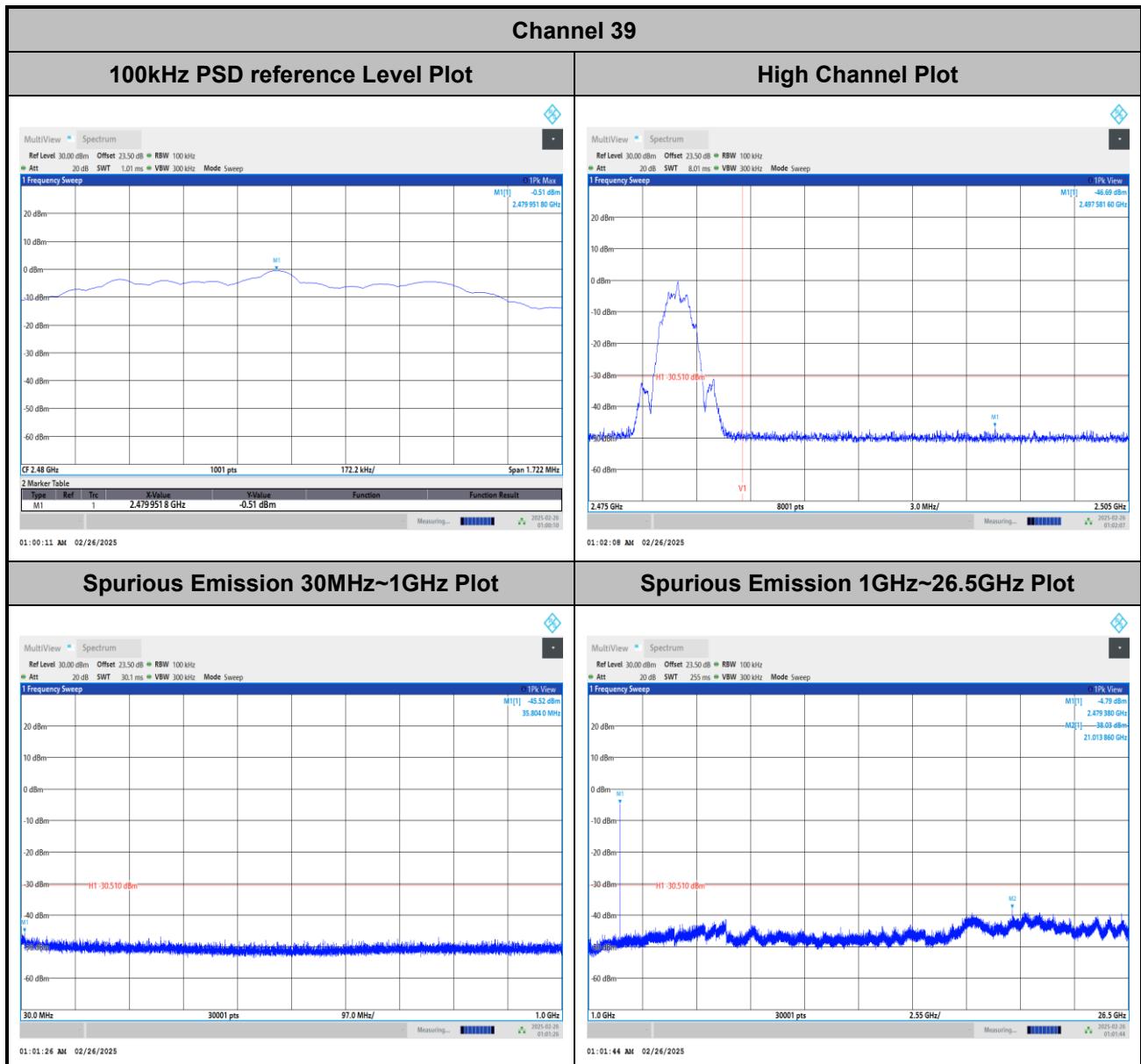




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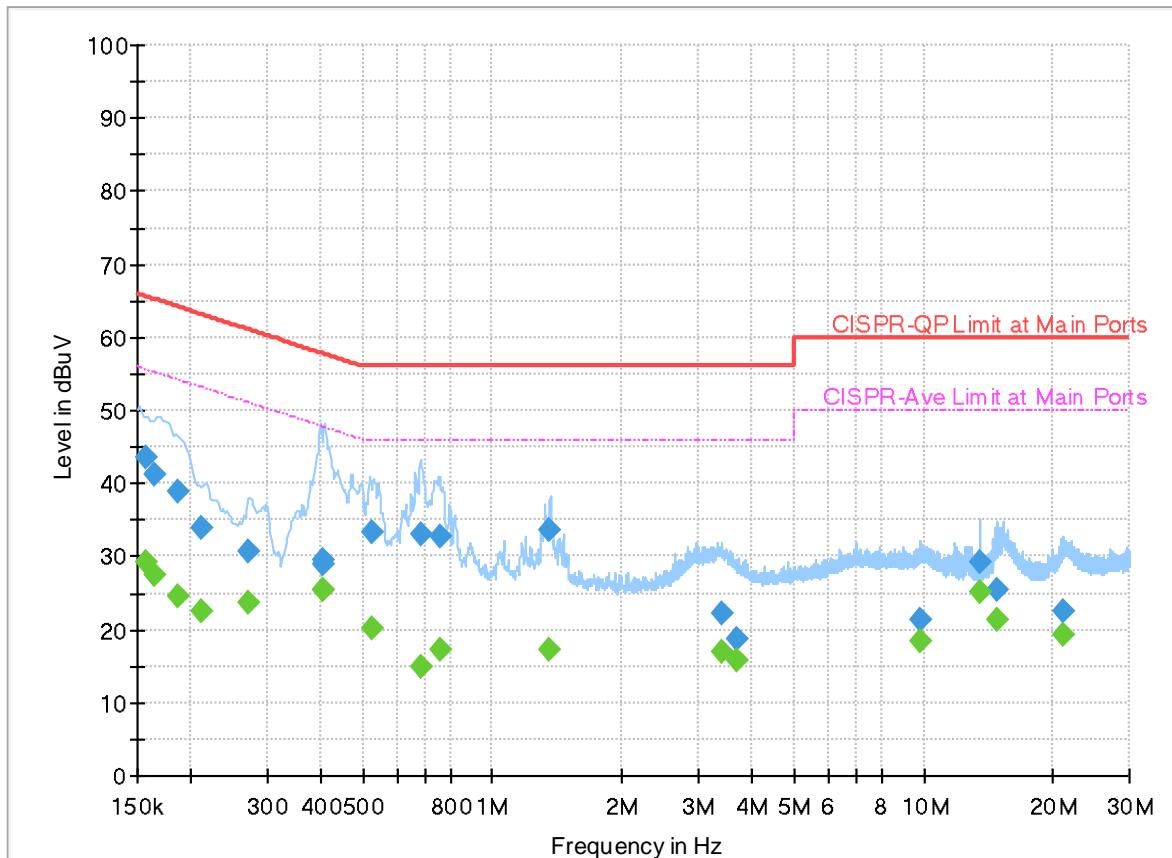
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	19.2~23.3°C
		Relative Humidity :	43.6~53.7%

EUT Information

Report NO : 520403
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final Result

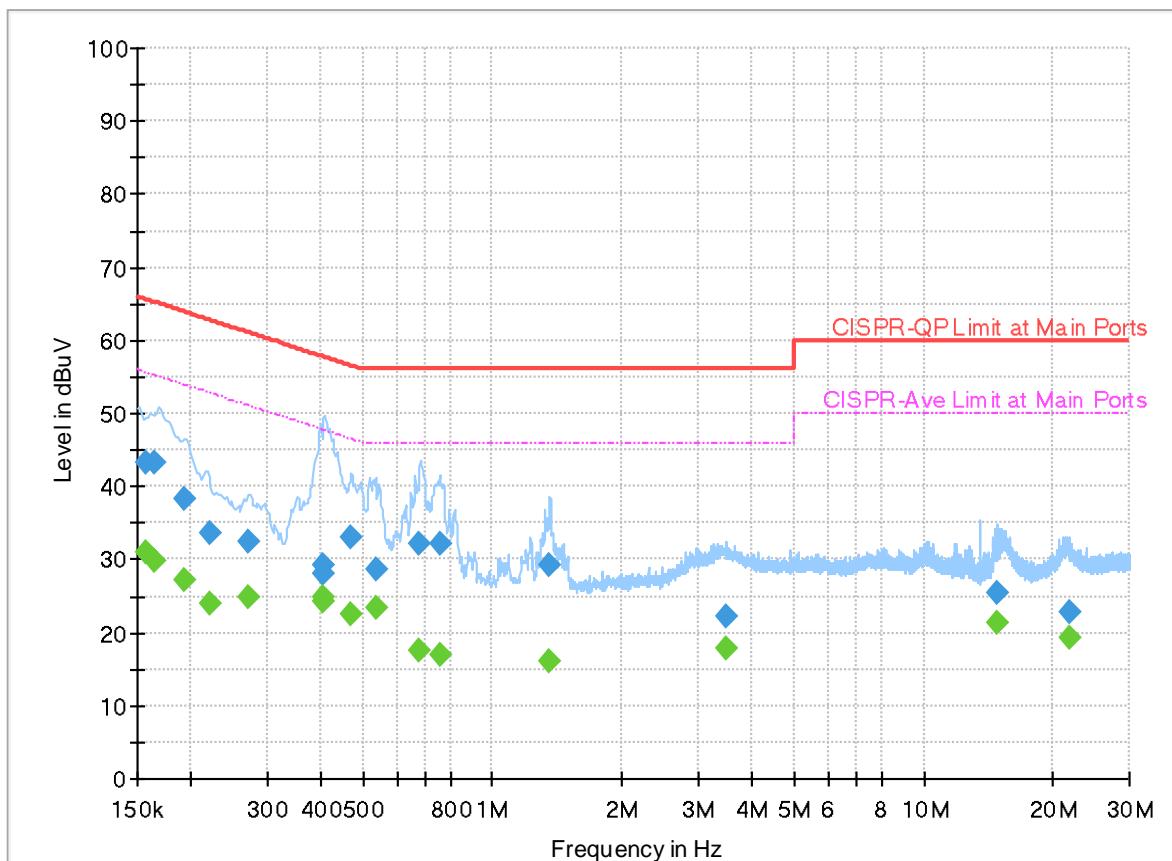
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.156750	---	29.26	55.63	26.37	L1	FLO	20.0
0.156750	43.49	---	65.63	22.14	L1	FLO	20.0
0.163500	---	27.40	55.28	27.88	L1	FLO	20.0
0.163500	41.37	---	65.28	23.91	L1	FLO	20.0
0.185370	---	24.70	54.24	29.54	L1	FLO	20.0
0.185370	38.78	---	64.24	25.46	L1	FLO	20.0
0.211560	---	22.53	53.14	30.61	L1	FLO	20.0
0.211560	33.88	---	63.14	29.26	L1	FLO	20.0
0.270600	---	23.54	51.10	27.56	L1	FLO	20.0
0.270600	30.66	---	61.10	30.44	L1	FLO	20.0
0.402000	---	25.57	47.81	22.24	L1	FLO	20.0
0.402000	29.66	---	57.81	28.15	L1	FLO	20.0
0.404340	---	25.42	47.76	22.34	L1	FLO	20.0
0.404340	28.97	---	57.76	28.79	L1	FLO	20.0
0.523500	---	20.19	46.00	25.81	L1	FLO	20.0
0.523500	33.27	---	56.00	22.73	L1	FLO	20.0
0.682710	---	14.91	46.00	31.09	L1	FLO	20.0
0.682710	33.15	---	56.00	22.85	L1	FLO	20.0
0.757500	---	17.13	46.00	28.87	L1	FLO	20.0

0.757500	32.64	---	56.00	23.36	L1	FLO	20.0
1.360230	---	17.32	46.00	28.68	L1	FLO	20.0
1.360230	33.53	---	56.00	22.47	L1	FLO	20.0
3.408000	---	17.01	46.00	28.99	L1	FLO	20.1
3.408000	22.13	---	56.00	33.87	L1	FLO	20.1
3.705000	---	15.76	46.00	30.24	L1	FLO	20.1
3.705000	18.85	---	56.00	37.15	L1	FLO	20.1
9.851730	---	18.32	50.00	31.68	L1	FLO	20.4
9.851730	21.34	---	60.00	38.66	L1	FLO	20.4
13.559910	---	25.05	50.00	24.95	L1	FLO	20.5
13.559910	29.13	---	60.00	30.87	L1	FLO	20.5
14.745750	---	21.38	50.00	28.62	L1	FLO	20.6
14.745750	25.32	---	60.00	34.68	L1	FLO	20.6
21.119820	---	19.17	50.00	30.83	L1	FLO	20.8
21.119820	22.60	---	60.00	37.40	L1	FLO	20.8

EUT Information

Report NO : 520403
 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)
0.156750	---	31.11	55.63	24.52	N	FLO	20.0
0.156750	43.40	---	65.63	22.23	N	FLO	20.0
0.163500	---	29.86	55.28	25.42	N	FLO	20.0
0.163500	43.18	---	65.28	22.10	N	FLO	20.0
0.192660	---	27.26	53.92	26.66	N	FLO	20.0
0.192660	38.25	---	63.92	25.67	N	FLO	20.0
0.221280	---	24.00	52.77	28.77	N	FLO	20.0
0.221280	33.54	---	62.77	29.23	N	FLO	20.0
0.270960	---	24.92	51.09	26.17	N	FLO	20.0
0.270960	32.37	---	61.09	28.72	N	FLO	20.0
0.402000	---	24.41	47.81	23.40	N	FLO	20.0
0.402000	28.14	---	57.81	29.67	N	FLO	20.0
0.404250	---	24.84	47.77	22.93	N	FLO	20.0
0.404250	29.21	---	57.77	28.56	N	FLO	20.0
0.469410	---	22.60	46.52	23.92	N	FLO	20.0
0.469410	33.14	---	56.52	23.38	N	FLO	20.0
0.539250	---	23.48	46.00	22.52	N	FLO	20.0
0.539250	28.64	---	56.00	27.36	N	FLO	20.0
0.676500	---	17.40	46.00	28.60	N	FLO	20.0

0.676500	32.28	---	56.00	23.72	N	FLO	20.0
0.758220	---	17.08	46.00	28.92	N	FLO	20.0
0.758220	32.05	---	56.00	23.95	N	FLO	20.0
1.355100	---	16.20	46.00	29.80	N	FLO	20.0
1.355100	29.10	---	56.00	26.90	N	FLO	20.0
3.492060	---	17.71	46.00	28.29	N	FLO	20.1
3.492060	22.11	---	56.00	33.89	N	FLO	20.1
14.835750	---	21.25	50.00	28.75	N	FLO	20.5
14.835750	25.52	---	60.00	34.48	N	FLO	20.5
21.705900	---	19.43	50.00	30.57	N	FLO	20.8
21.705900	22.78	---	60.00	37.22	N	FLO	20.8



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jerry Lan , Gary Guo and Steven Wu	Relative Humidity(%):	50~65%
		Temperature(°C):	18.2~21.8°C

Note symbol

-L	Low channel location
-R	High channel location

C1. Radiated Spurious Emission Test Modes

<1 Mbps>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	0	Bluetooth-LE_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	0	Bluetooth-LE_GFSK	19	2440	1Mbps	-	-
Mode 3	2400-2483.5	0	Bluetooth-LE_GFSK	39	2480	1Mbps	-	-
Mode 7	2400-2483.5	0	Bluetooth-LE_GFSK	19	2440	1Mbps	-	LF
Mode 8	2400-2483.5	0	Bluetooth-LE_GFSK	19	2440	1Mbps	-	SHF

<2 Mbps>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 4	2400-2483.5	0	Bluetooth-LE_GFSK	00	2402	2Mbps	-	-
Mode 5	2400-2483.5	0	Bluetooth-LE_GFSK	19	2440	2Mbps	-	-
Mode 6	2400-2483.5	0	Bluetooth-LE_GFSK	39	2480	2Mbps	-	-



C2. Summary of each worse mode

<1 Mbps>

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Bluetooth-LE_GFSK	00	2377.62	46.03	54.00	-7.97	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	00	4804.00	38.72	54.00	-15.28	H	Avg.	Pass	-	Harmonic
2	Bluetooth-LE_GFSK	19	2484.04	46.59	54.00	-7.41	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	7320.00	52.87	54.00	-1.13	H	Avg.	Pass	-	Harmonic
3	Bluetooth-LE_GFSK	39	2487.28	46.93	54.00	-7.07	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	39	7440.00	51.25	54.00	-2.75	H	Avg.	Pass	-	Harmonic
7	LF	19	39.70	32.83	40.00	-7.17	V	QP	Pass	-	LF
8	SHF	19	25640.00	39.71	74.00	-34.29	H	Peak	Pass	-	SHF



<2 Mbps>

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
4	Bluetooth-LE_GFSK	00	2358.94	46.80	54.00	-7.20	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	00	4804.00	40.98	54.00	-13.02	H	Avg.	Pass	-	Harmonic
5	Bluetooth-LE_GFSK	19	2486.26	47.64	54.00	-6.36	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	7320.00	50.61	54.00	-3.39	H	Avg.	Pass	-	Harmonic
6	Bluetooth-LE_GFSK	39	2497.60	47.38	54.00	-6.62	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	39	7440.00	52.49	74.00	-21.51	H	Peak	Pass	-	Harmonic



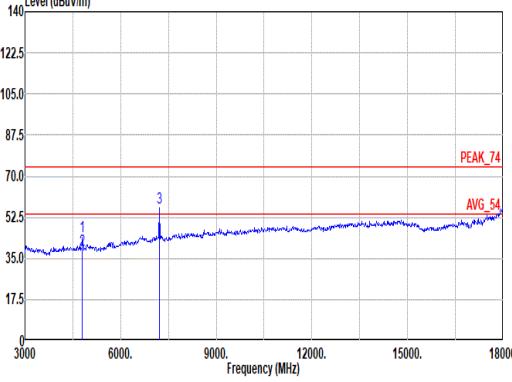
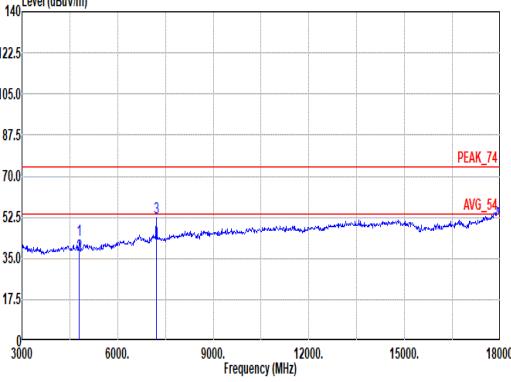
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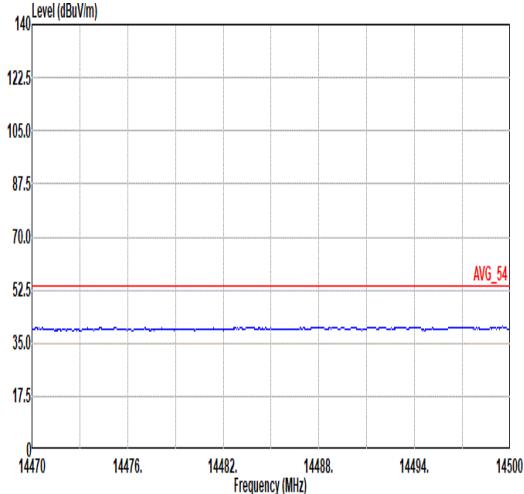
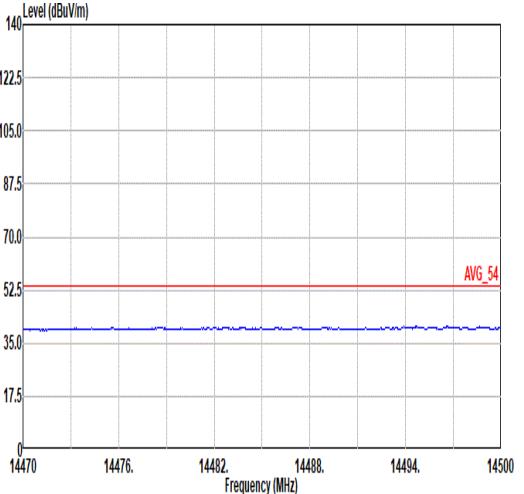
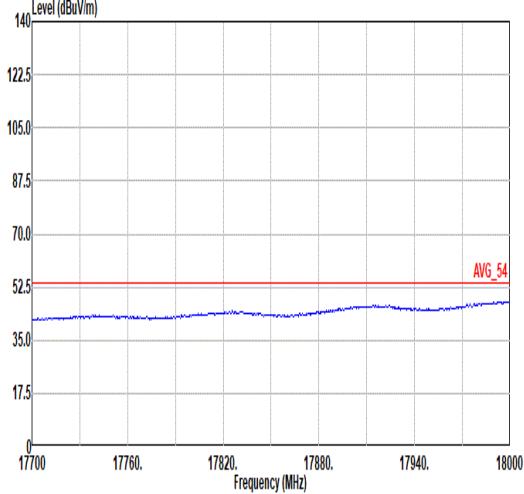
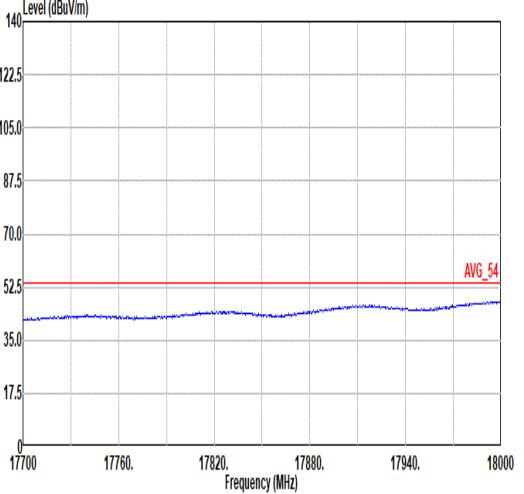
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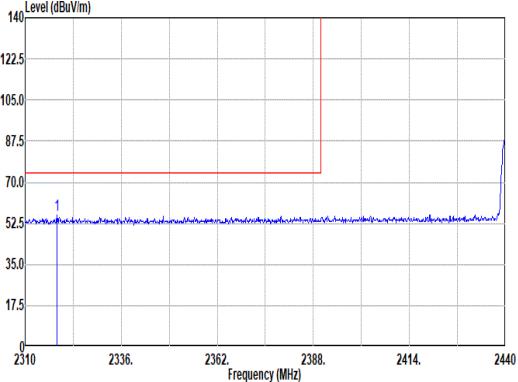
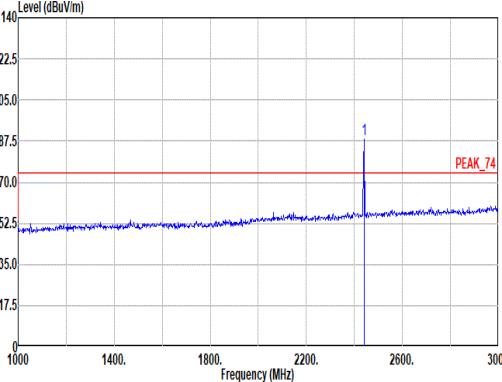
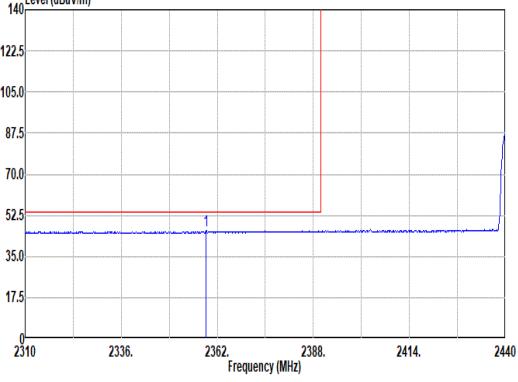
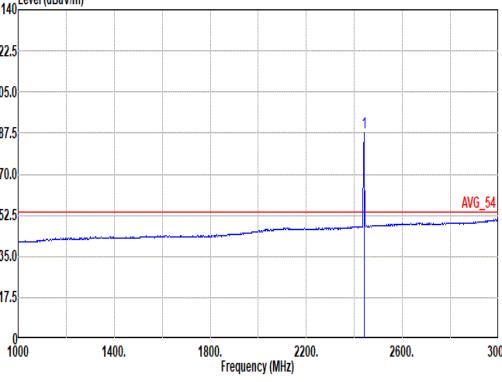


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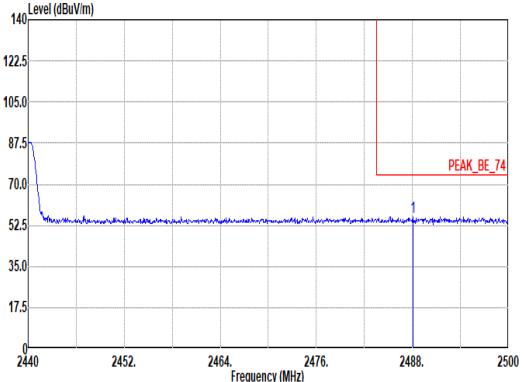
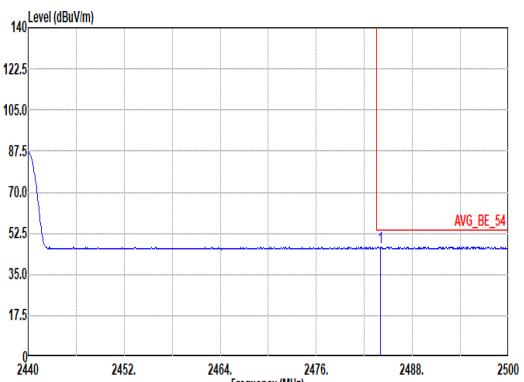


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Pol.	Horizontal	Vertical
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~14.5G		
Avg		
17.7G	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL</p>
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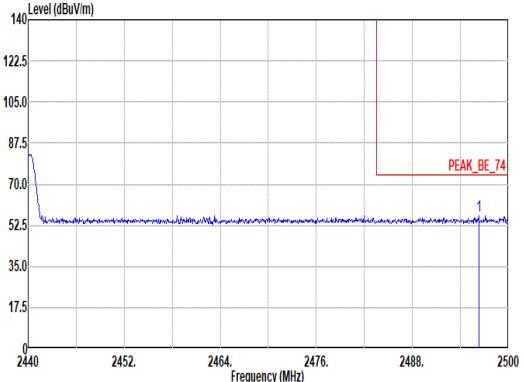
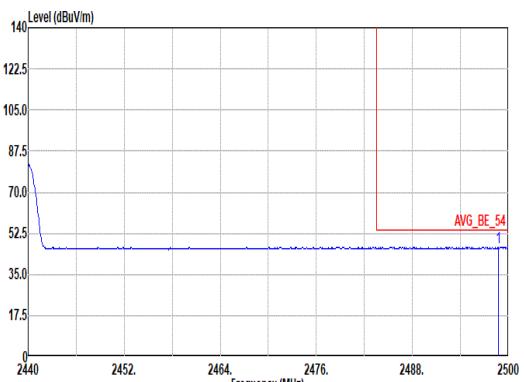
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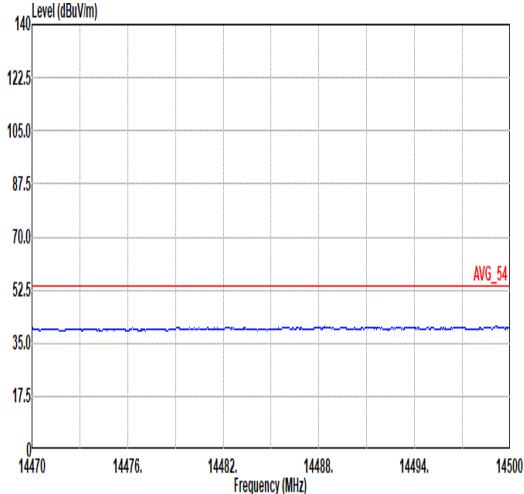
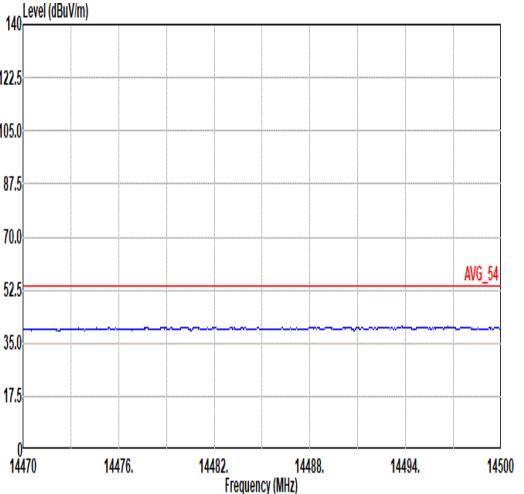
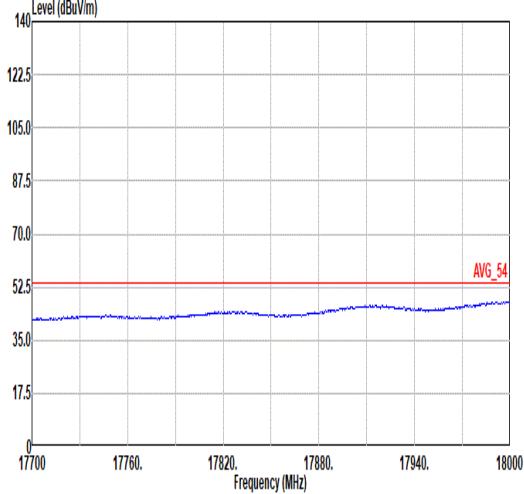
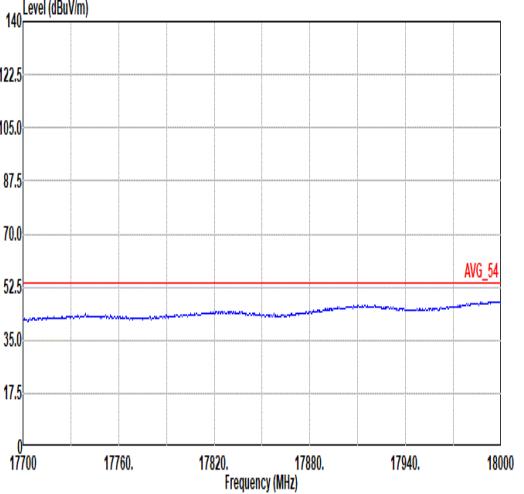


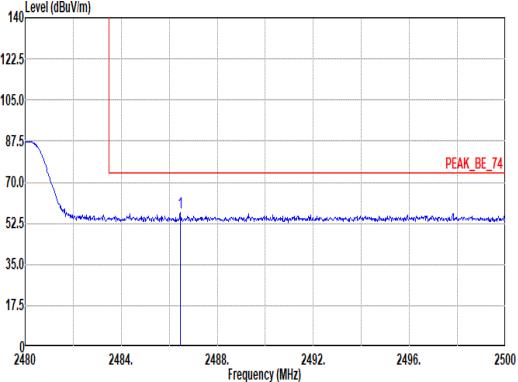
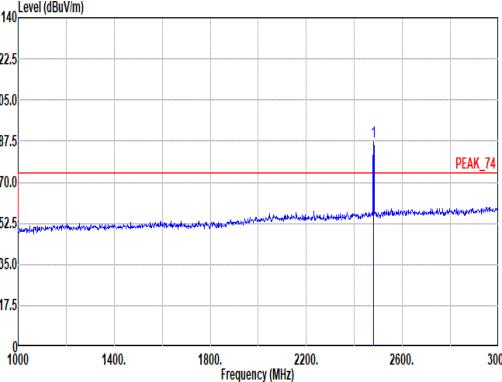
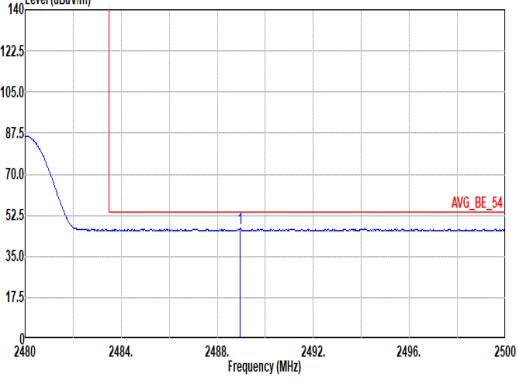
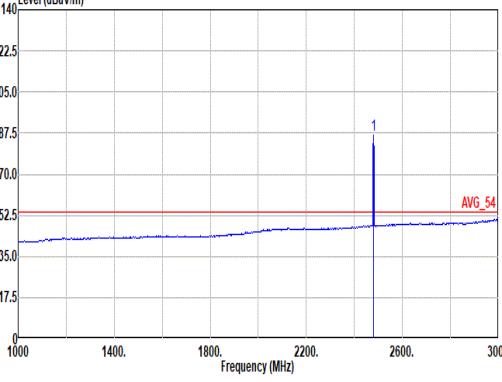
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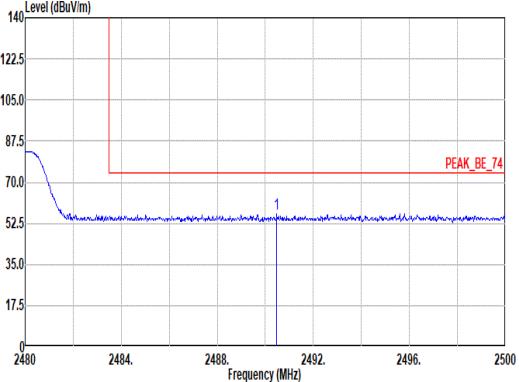
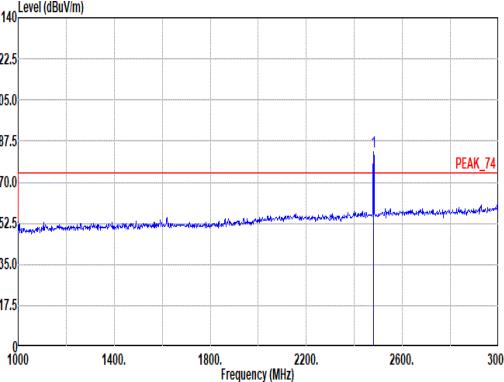
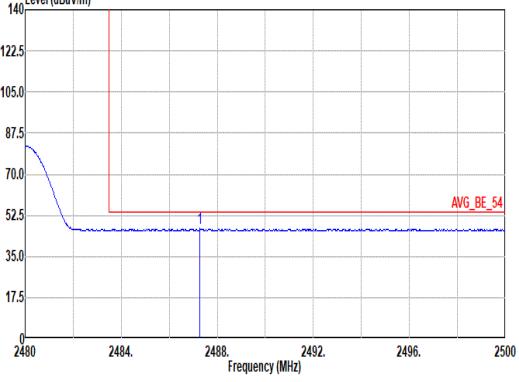
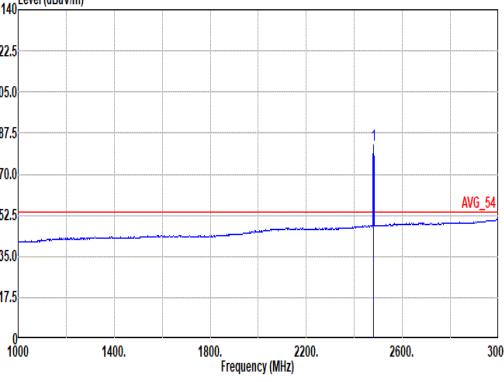
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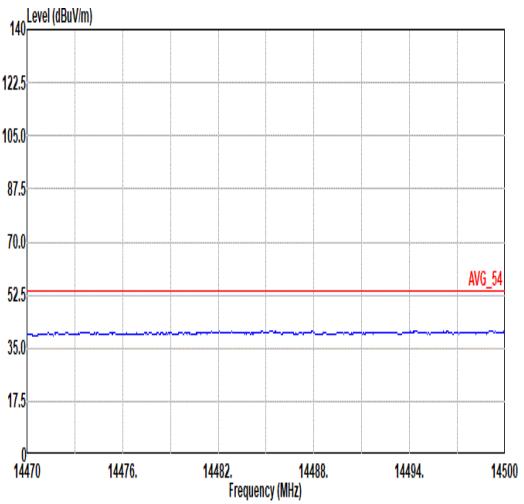
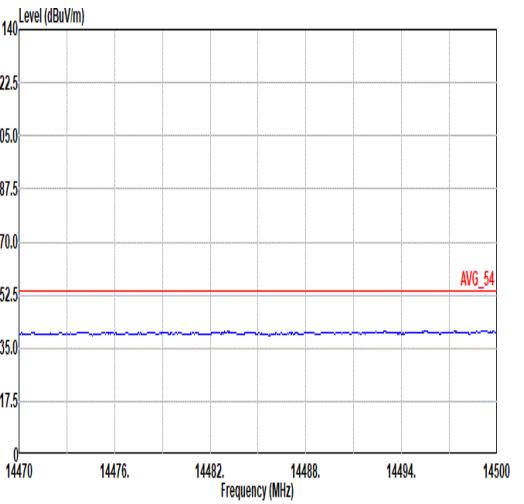
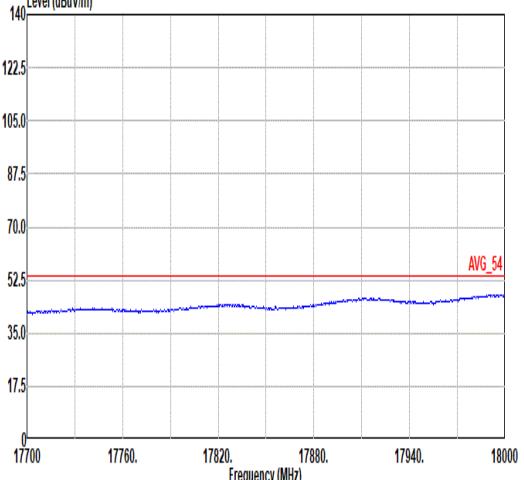
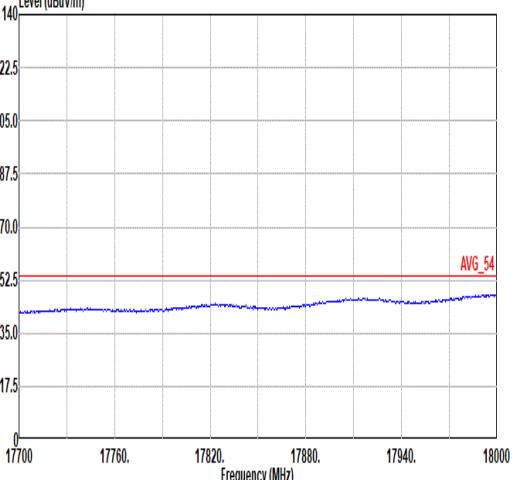
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Mode		Harmonic
2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz		
ANT		0
Pol.	Horizontal	Vertical
14.47G	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL</p>
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Avg		
17.7G	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL</p>
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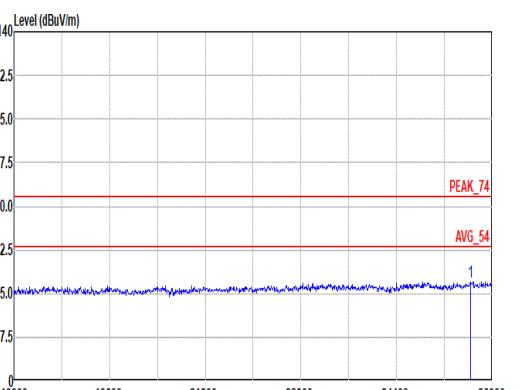
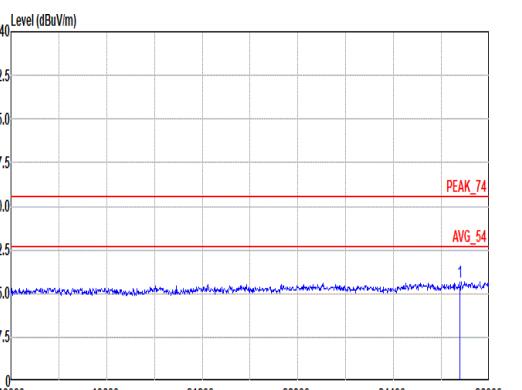
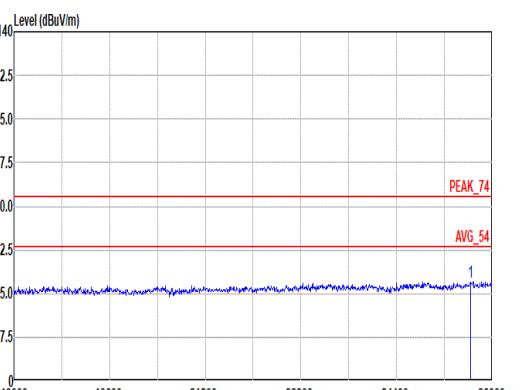
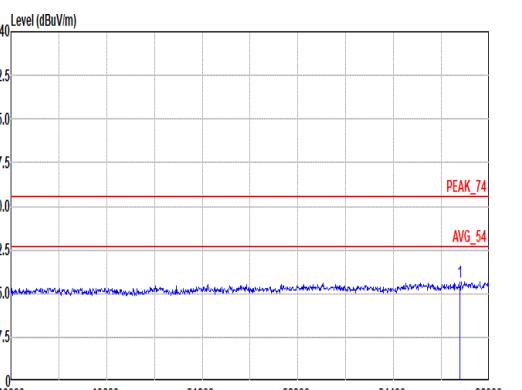
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~14.5G		
Avg		
17.7G	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_248328 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_248328 VERTICAL</p>
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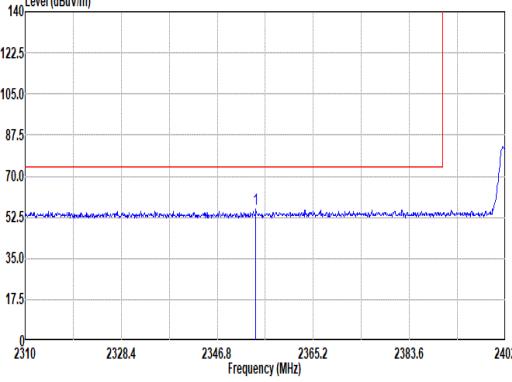
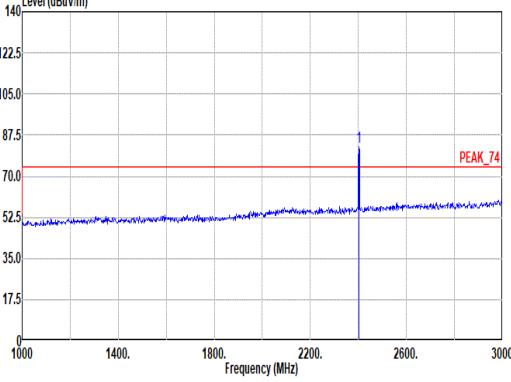
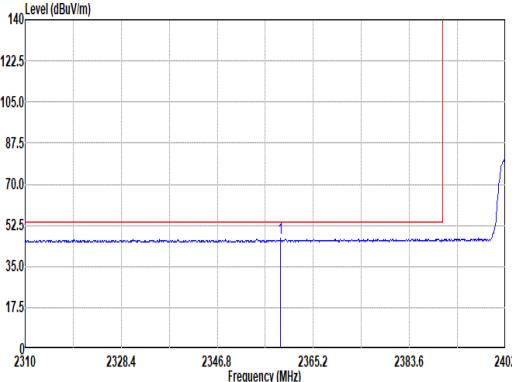
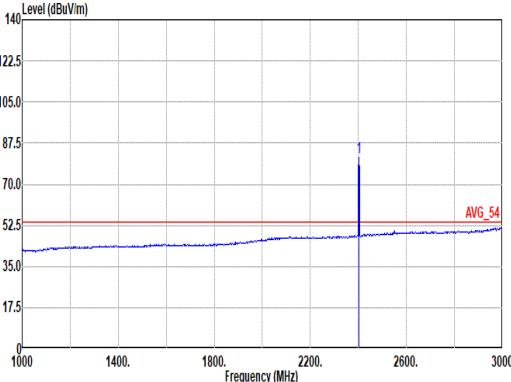
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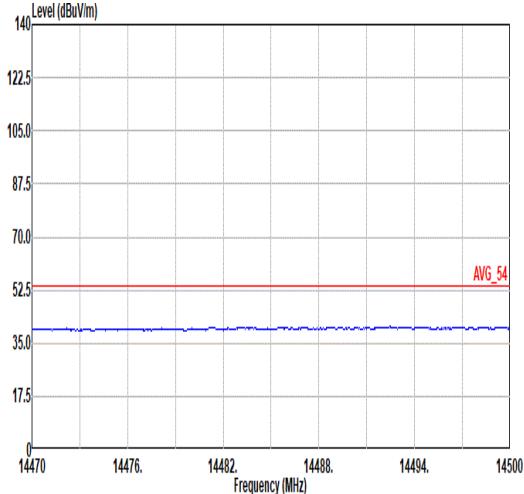
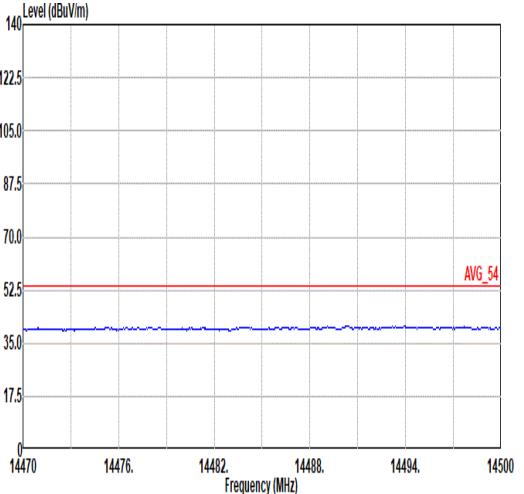
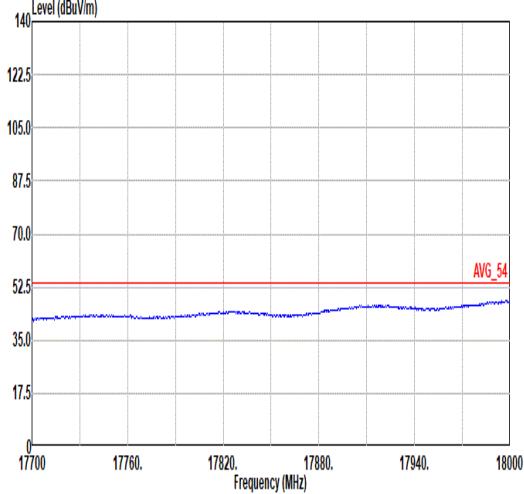
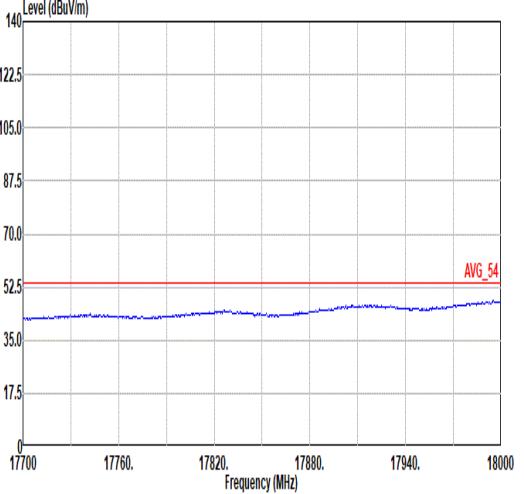
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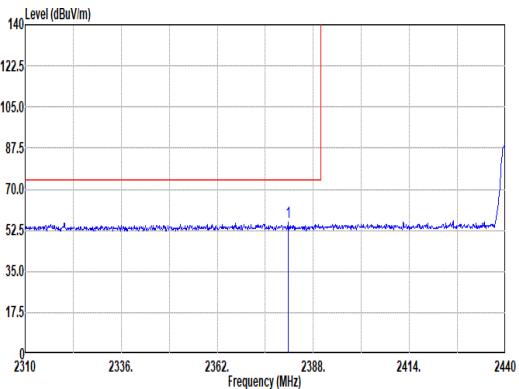
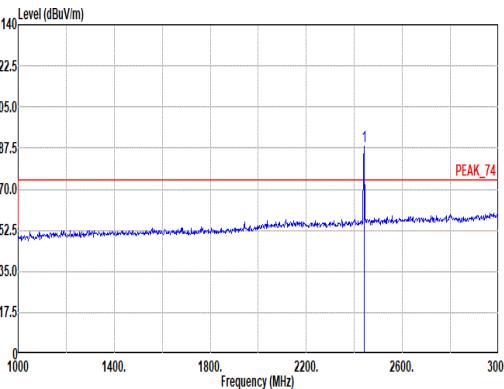
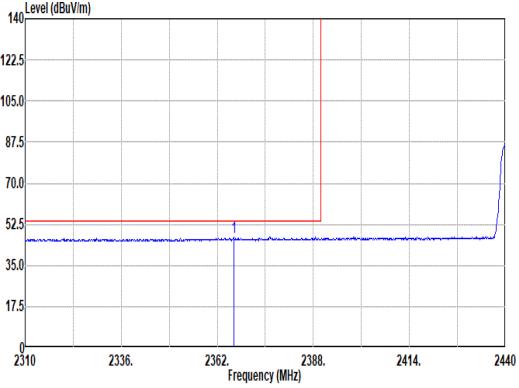
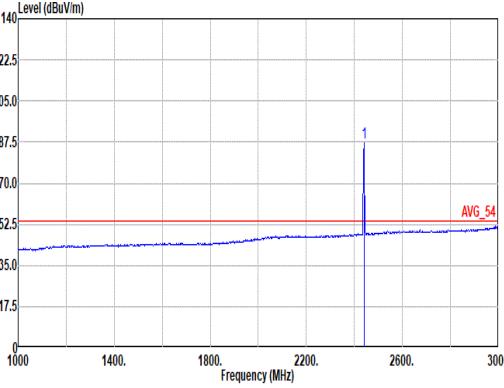


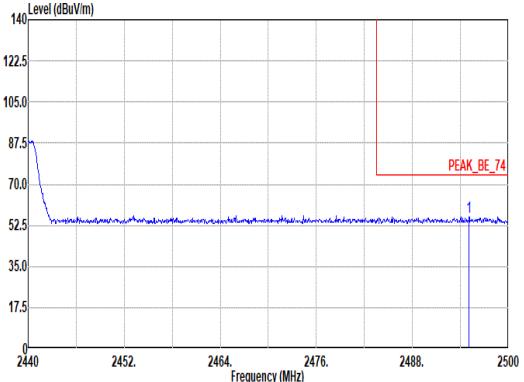
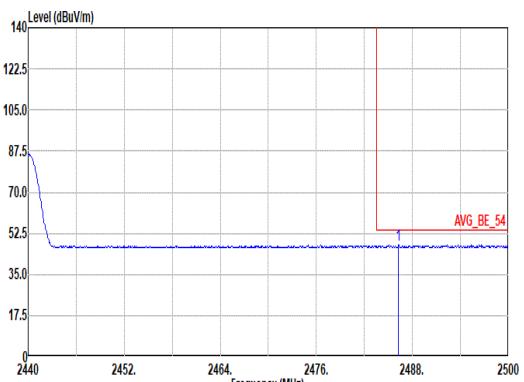
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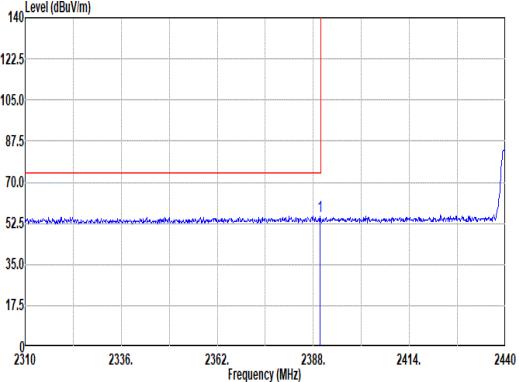
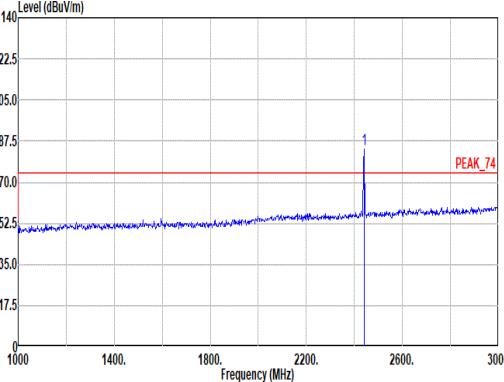
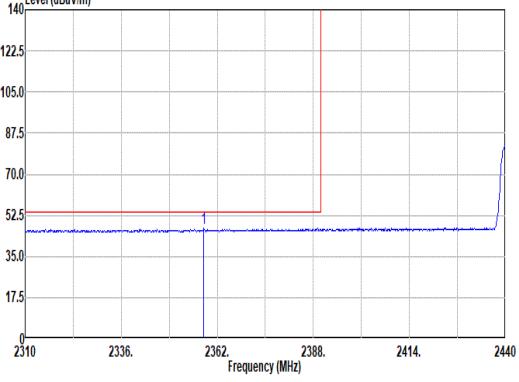
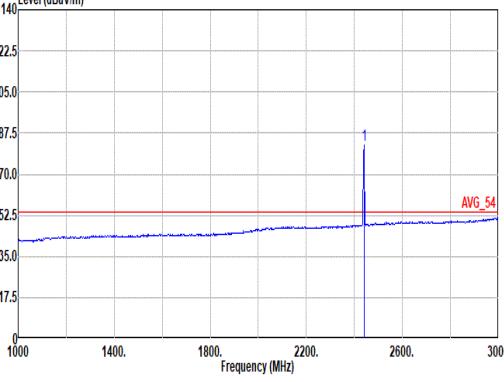


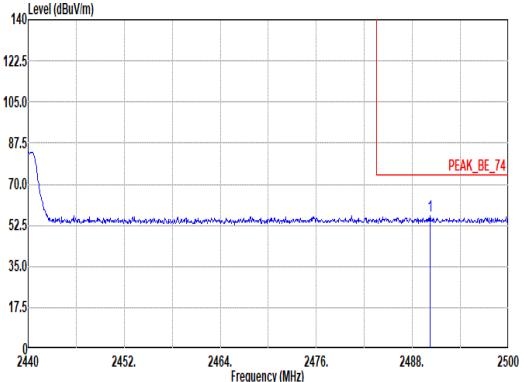
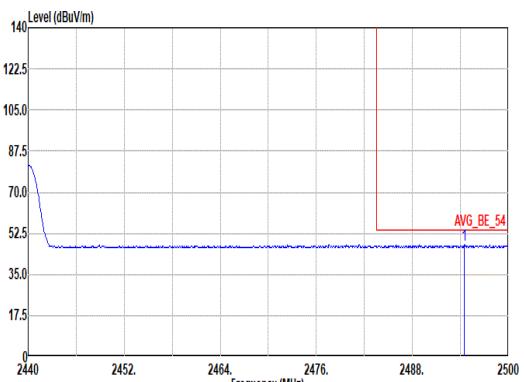
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Pol.	Horizontal	Vertical
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~14.5G		
Avg		
17.7G	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL</p>
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Avg		

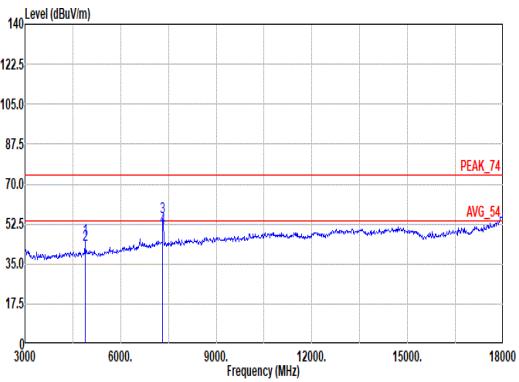
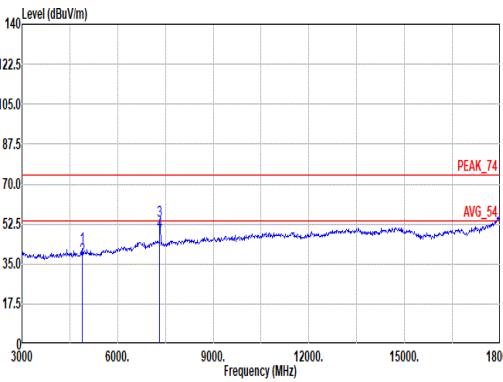
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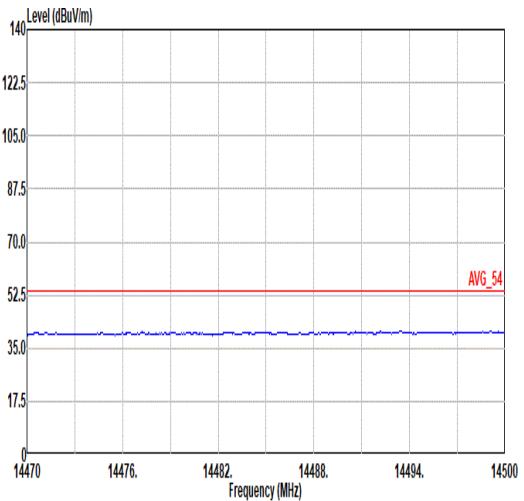
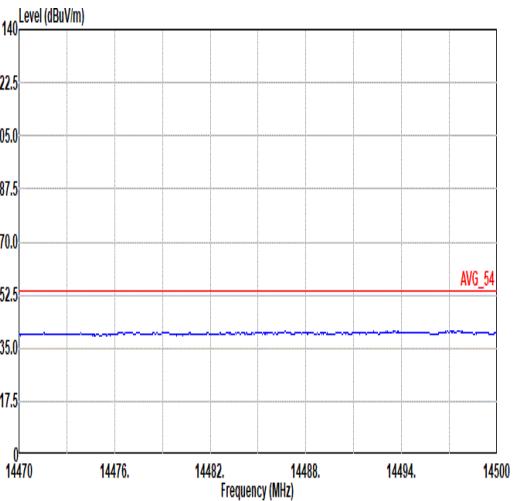
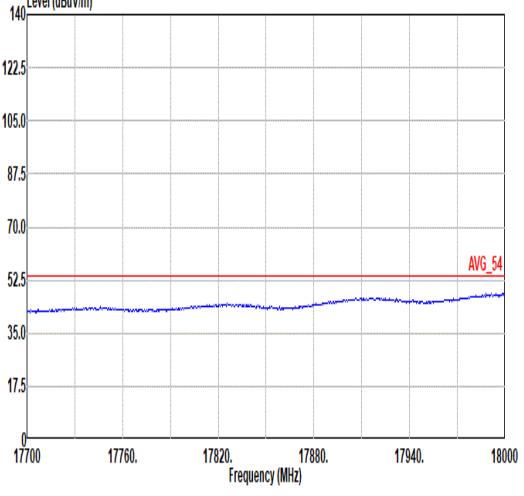
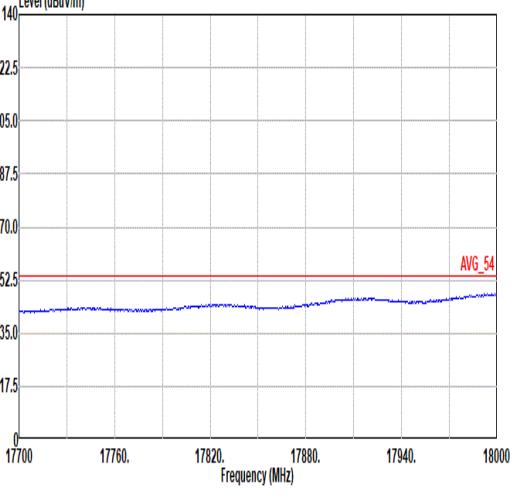
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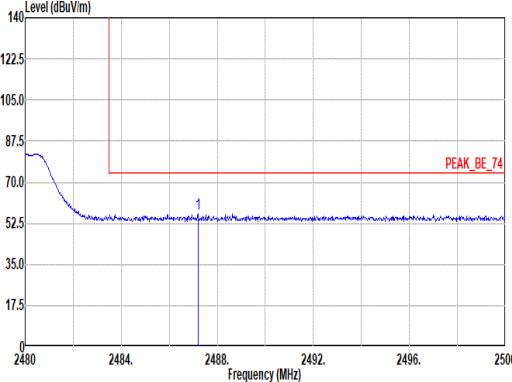
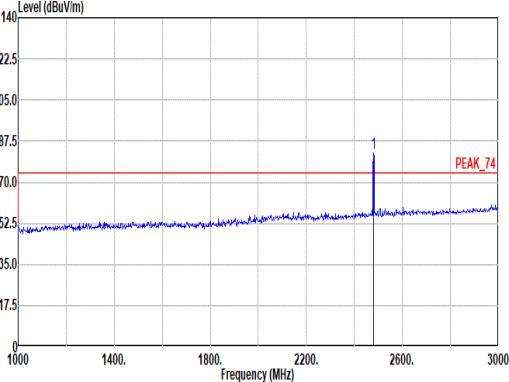
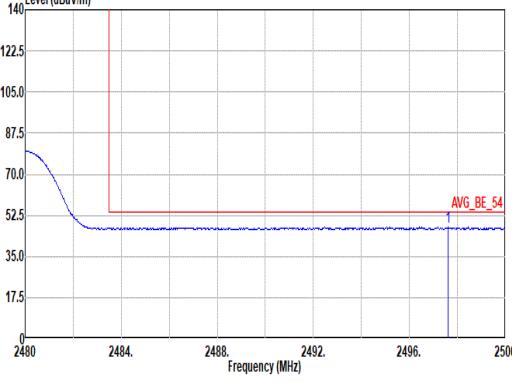
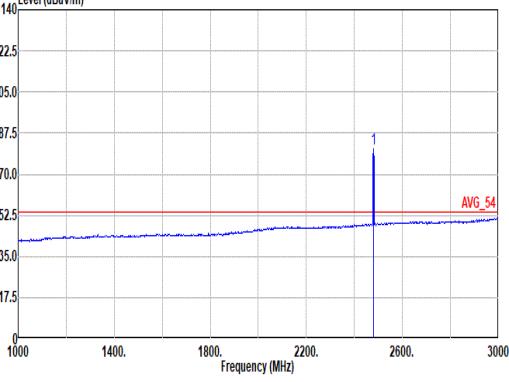
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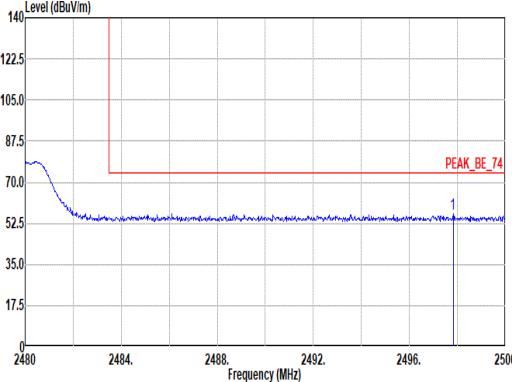
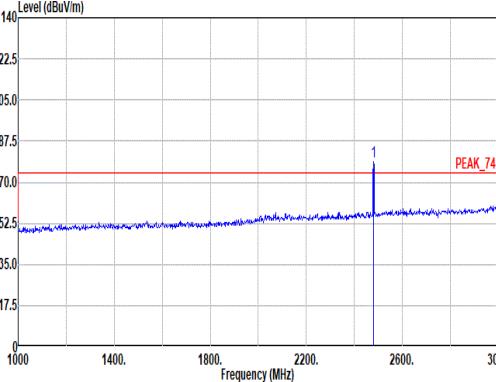
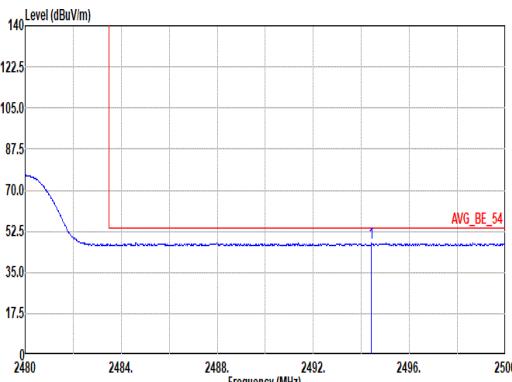
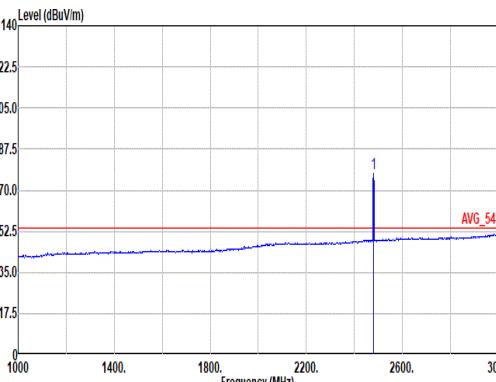
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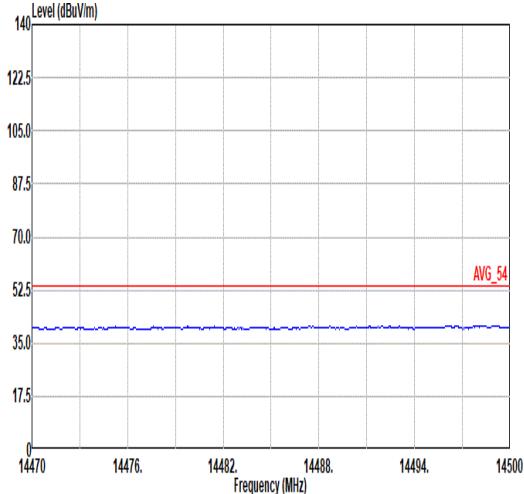
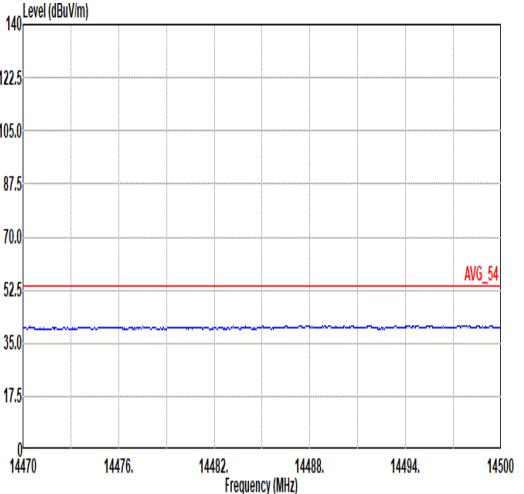
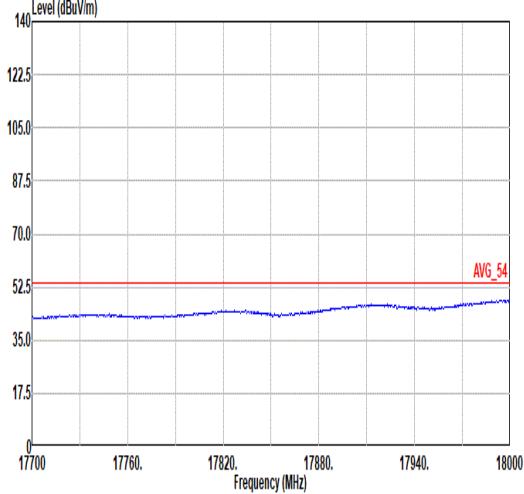
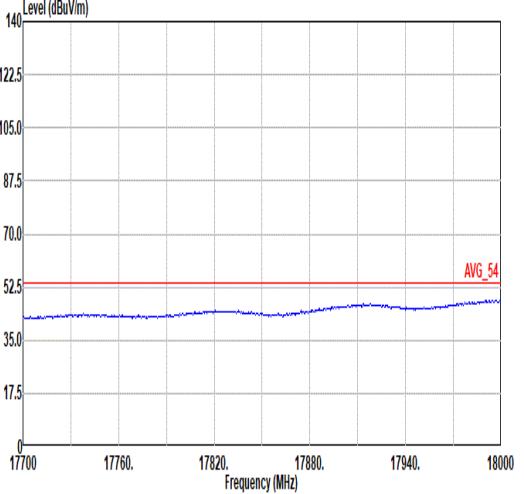
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ANT		0
Pol.	Horizontal	Vertical
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~14.5G		
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17.7G	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL</p>
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		6
Mode		Harmonic
2400-2483.5_Bluetooth-LE_GFSK _CH39_2480MHz		
ANT		0
Pol.	Horizontal	Vertical
14.47G	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_248328 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_248328 VERTICAL</p>
~14.5G		
Avg		
17.7G	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_248328 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_248328 VERTICAL</p>
~18G		
Avg		



Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 1Mbps	62.65	391	2.56	2.7KHz
Bluetooth - LE for 2Mbps	32.87	205	4.87	5.1KHz

