



FCC RF Test Report

APPLICANT : Ring LLC
EQUIPMENT : Chime (3rd Gen)
BRAND NAME : ring
MODEL NAME : 6HFYAB
FCC ID : 2AEUPBHACM031
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Jun. 21, 2025 ~ Aug. 10, 2025

We, Sporton International Inc. (Kunshan), 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 of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR560332-01A	Rev. 01	Initial issue of report	Sep. 05, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report only	-
3.2	15.247(b)(3)	Conducted Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	$\leq 30\text{dBc}$	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.16 dB at 7320.00 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 15.83 dB at 0.441 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

- 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 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.



1 General Description

1.1 Applicant

Ring LLC

12515 Cerise Ave, Hawthorne, CA 90250, USA

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Chime (3rd Gen)
Brand Name	ring
Model Name	6HFYAB
FCC ID	2AEUPBHACM031
SN Code	Conducted: GN44VL015285003D Conduction: GN44VL0152850039 Radiation: GN44VL0152850035
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)
Maximum Output Power to Antenna	BLE 1Mbps: 5.47 dBm (0.0035 W) BLE 2Mbps: 5.35 dBm (0.0034 W) BLE 125Kbps: 5.42 dBm (0.0035 W) BLE 500Kbps: 5.40 dBm (0.0035 W)
99% Occupied Bandwidth	BLE 1Mbps:1.04MHz BLE 2Mbps:2.07MHz BLE 125Kbps:1.06MHz BLE 500Kbps:1.03MHz
Antenna Type / Gain	PIFA Antenna type with gain 3 dBi
Type of Modulation	Bluetooth LE : GFSK

1.4 Modification of EUT

No modifications are made to the EUT during all test items.



1.5 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH05-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	03CH05-KS	AUDIX	E3	210616
3.	CO01-KS	R&S	EMC32	10.50.00

1.7 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2020

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. 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

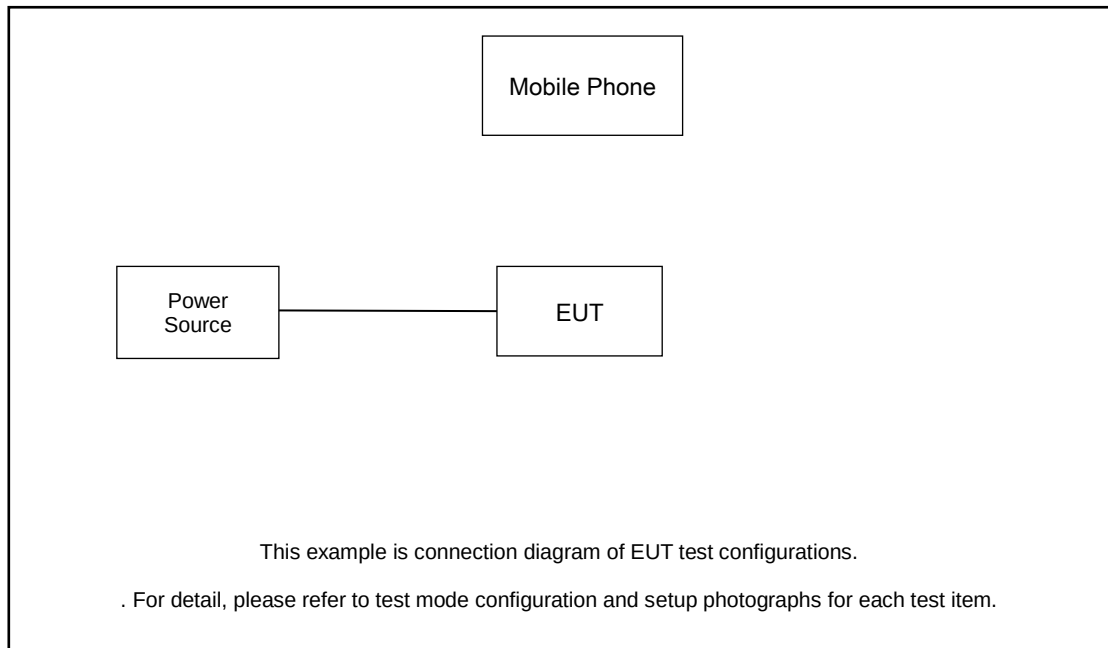
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded 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.

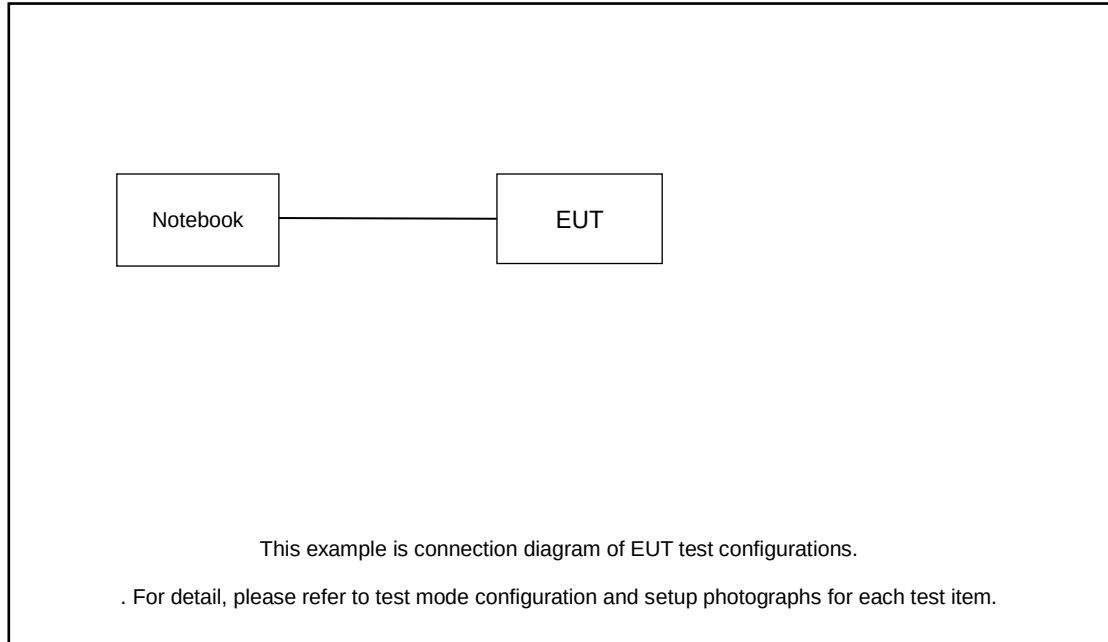
Summary table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth – LE / GFSK
Conducted TCs	Mode 1: Bluetooth Tx CH00_2402 MHz_BLE 1Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_BLE 1Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_BLE 1Mbps Mode 4: Bluetooth Tx CH00_2402 MHz_BLE 2Mbps Mode 5: Bluetooth Tx CH19_2440 MHz_BLE 2Mbps Mode 6: Bluetooth Tx CH39_2480 MHz_BLE 2Mbps Mode 7: Bluetooth Tx CH00_2402 MHz_BLE 125Kbps Mode 8: Bluetooth Tx CH19_2440 MHz_BLE 125Kbps Mode 9: Bluetooth Tx CH39_2480 MHz_BLE 125Kbps Mode 10: Bluetooth Tx CH00_2402 MHz_BLE 500Kbps Mode 11: Bluetooth Tx CH19_2440 MHz_BLE 500Kbps Mode 12: Bluetooth Tx CH39_2480 MHz_BLE 500Kbps
Radiated TCs	Mode 1: Bluetooth Tx CH00_2402 MHz_BLE 1Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_BLE 1Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_BLE 1Mbps Mode 4: Bluetooth Tx CH00_2402 MHz_BLE 2Mbps Mode 5: Bluetooth Tx CH19_2440 MHz_BLE 2Mbps Mode 6: Bluetooth Tx CH39_2480 MHz_BLE 2Mbps
AC Conducted Emission	Mode 1: Bluetooth LE Link + AC Power
Remark: 1. For Radiated Test Cases, The tests were performance with Notebook.	

2.3 Connection Diagram of Test System

For AC Conducted Emission:



For Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
2.	Mobile Phone	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For BLE function, the engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the Mobile Phone.

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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.80 dB.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 5.80 \text{ (dB)}\end{aligned}$$

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.

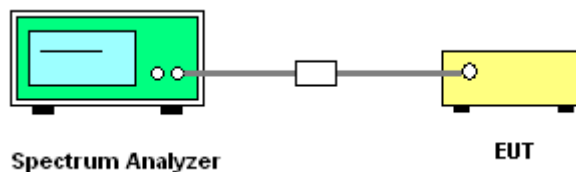
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.8.1 for 6dB BW and 6.9.3 for 99% occupied bandwidth measurements
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth (VBW) $\geq 3 \times \text{RBW}$. Detector = Peak. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



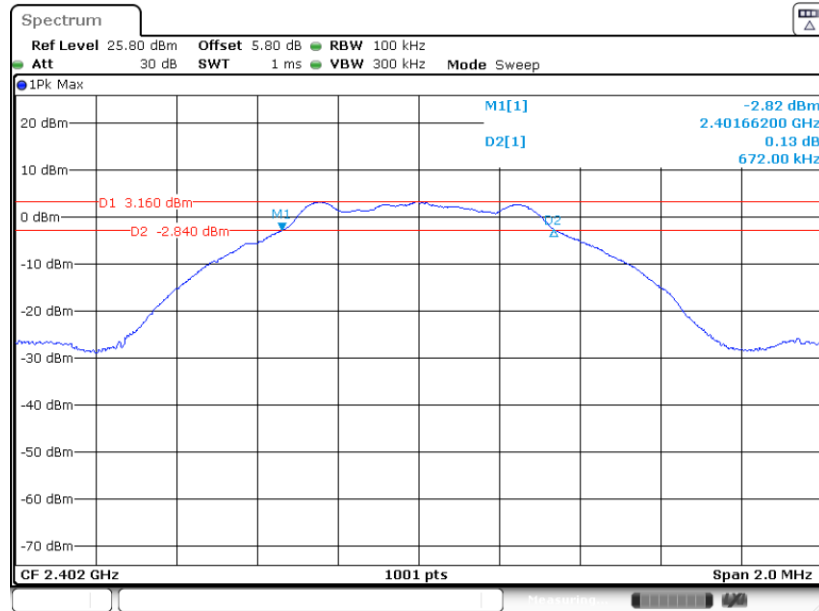


3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

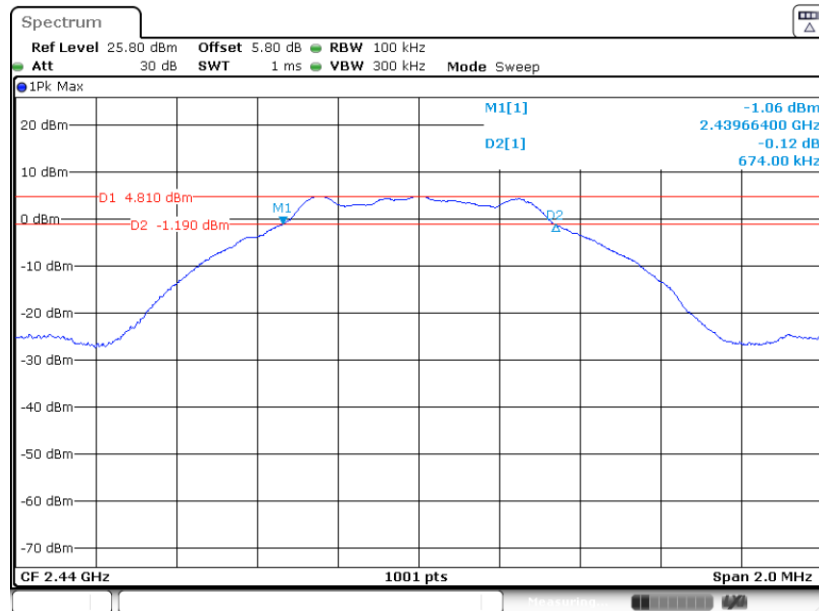
BLE 1Mbps

6 dB Bandwidth Plot on Channel 00



Date: 10.AUG.2025 20:10:21

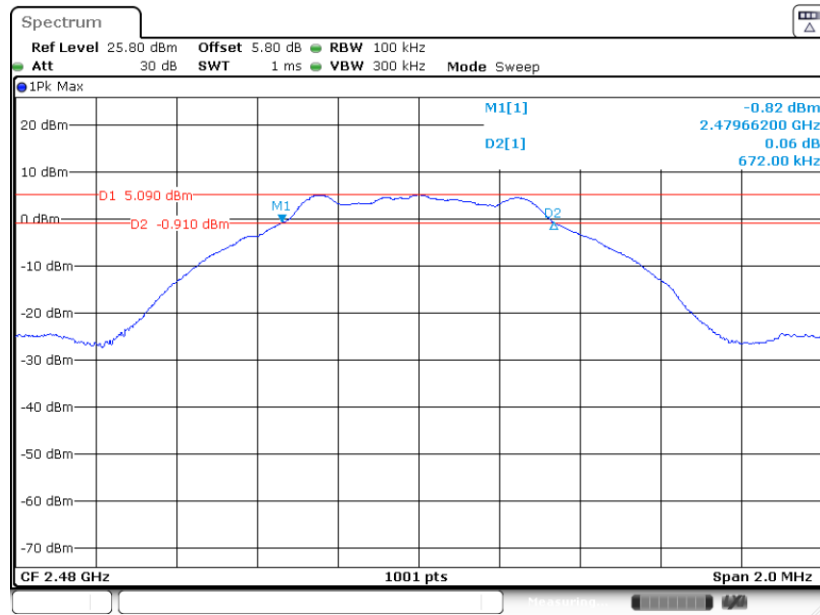
6 dB Bandwidth Plot on Channel 19



Date: 10.AUG.2025 20:14:13



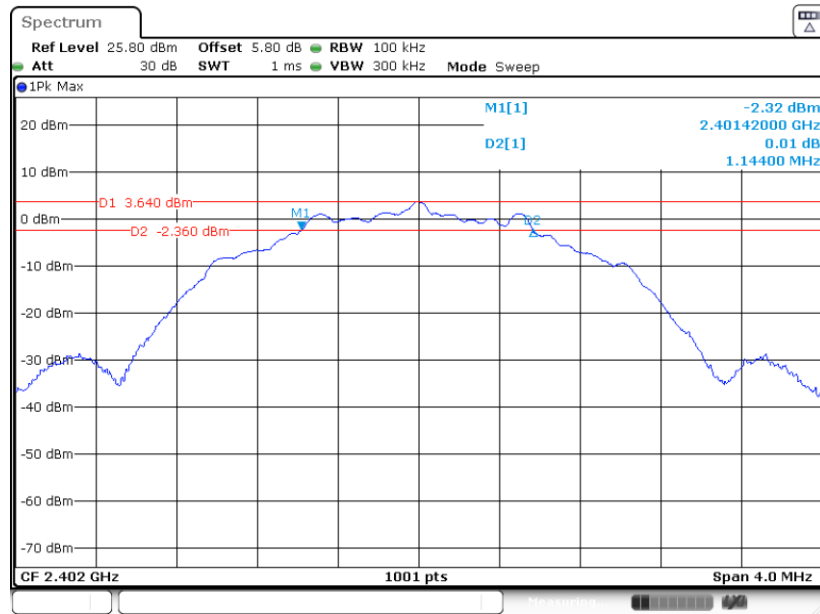
6 dB Bandwidth Plot on Channel 39



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BLE 2Mbps

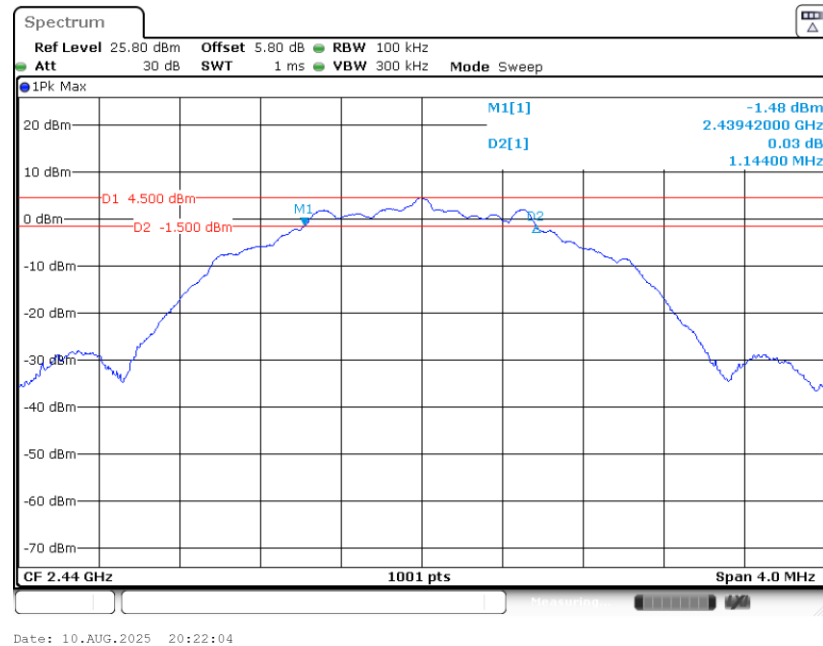
6 dB Bandwidth Plot on Channel 00



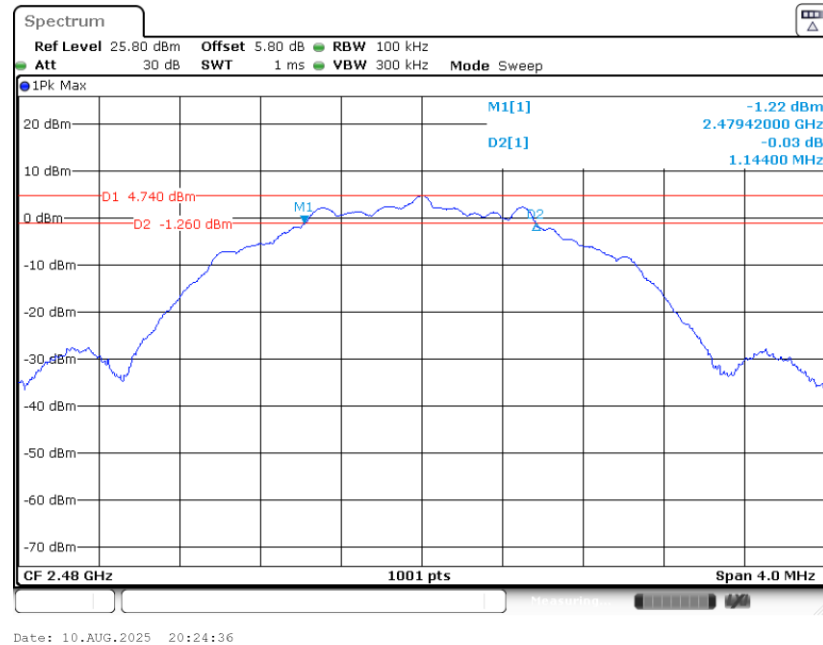
Date: 10.AUG.2025 20:19:24



6 dB Bandwidth Plot on Channel 19



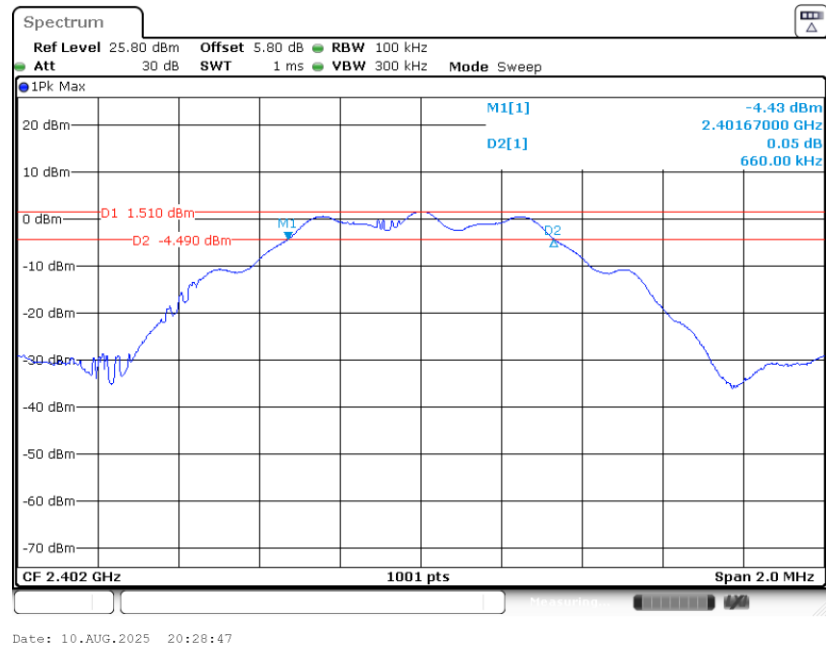
6 dB Bandwidth Plot on Channel 39



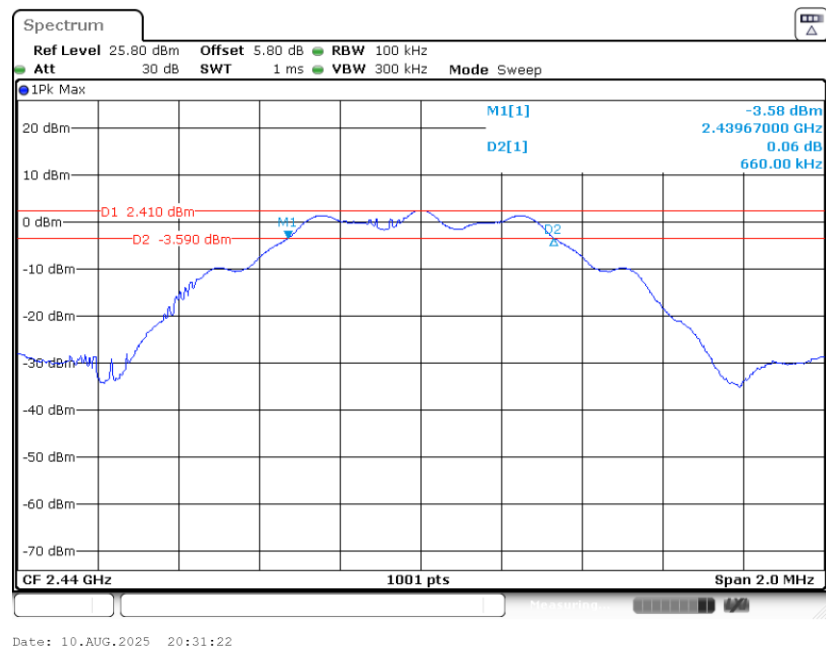


BLE 125Kbps

6 dB Bandwidth Plot on Channel 00

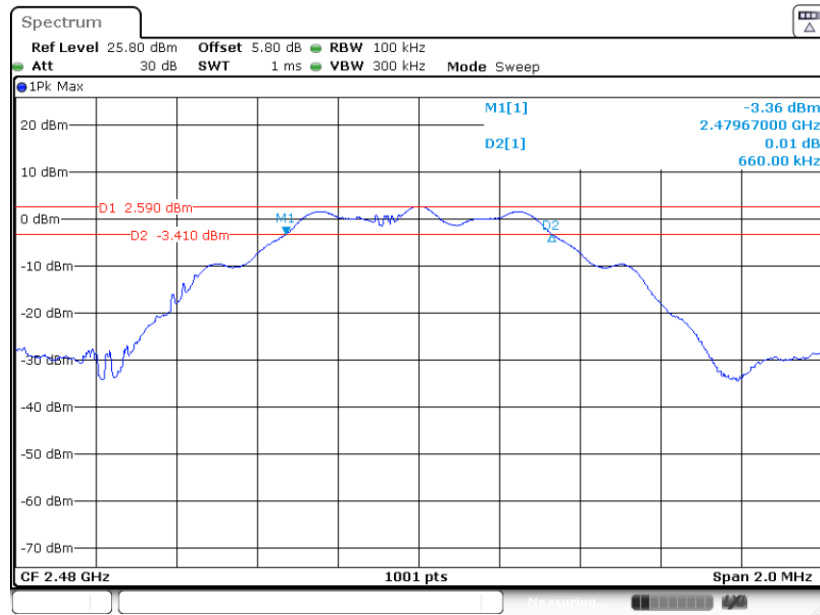


6 dB Bandwidth Plot on Channel 19





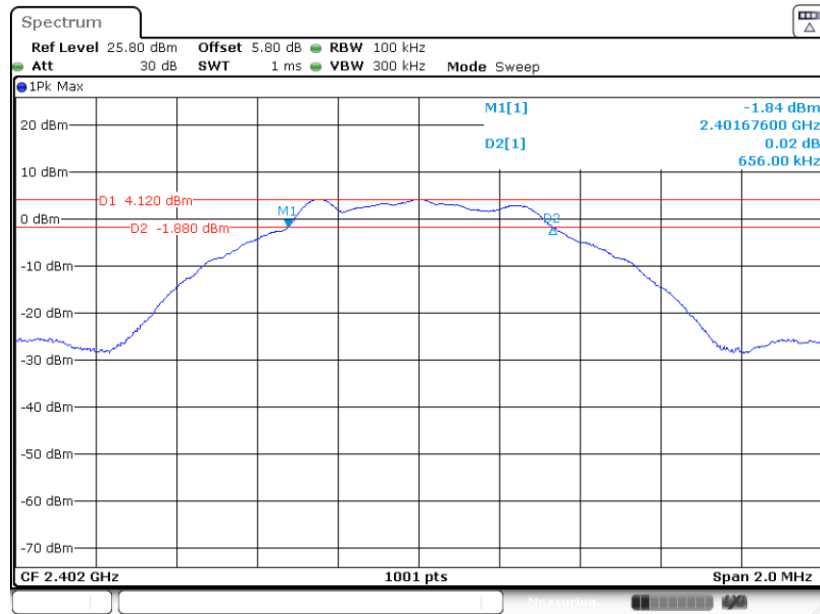
6 dB Bandwidth Plot on Channel 39



Date: 10.AUG.2025 20:33:46

BLE 500Kbps

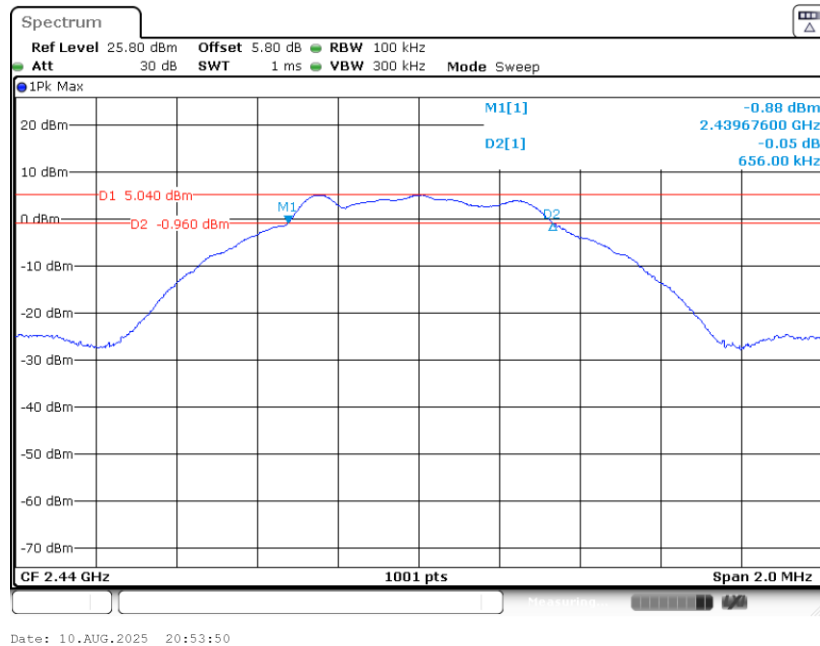
6 dB Bandwidth Plot on Channel 00



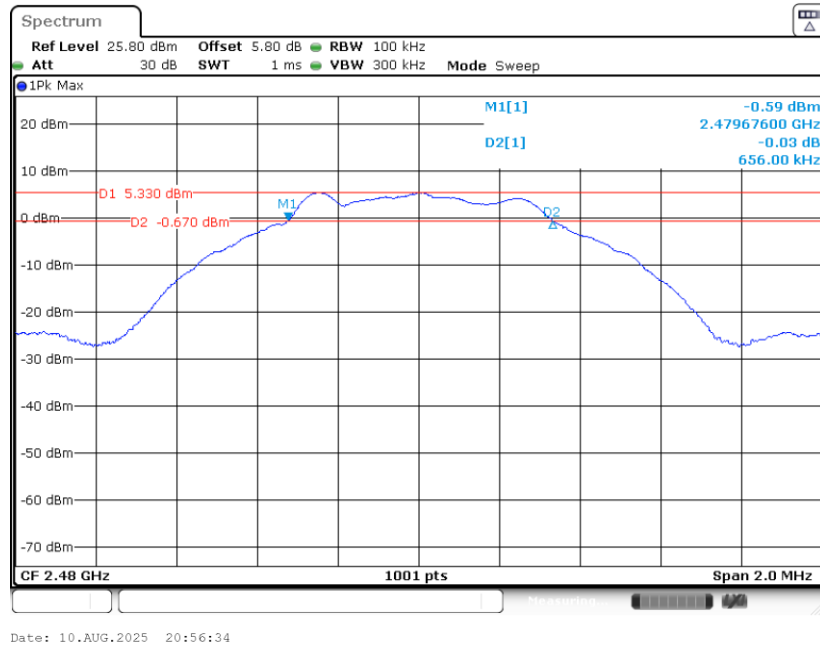
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6 dB Bandwidth Plot on Channel 19



6 dB Bandwidth Plot on Channel 39



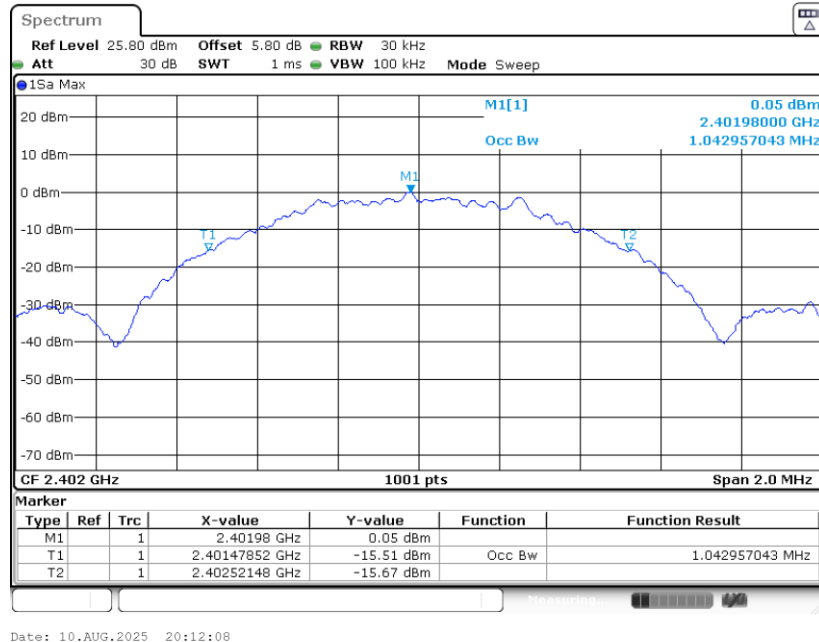


3.1.6 Test Result of 99% Occupied Bandwidth

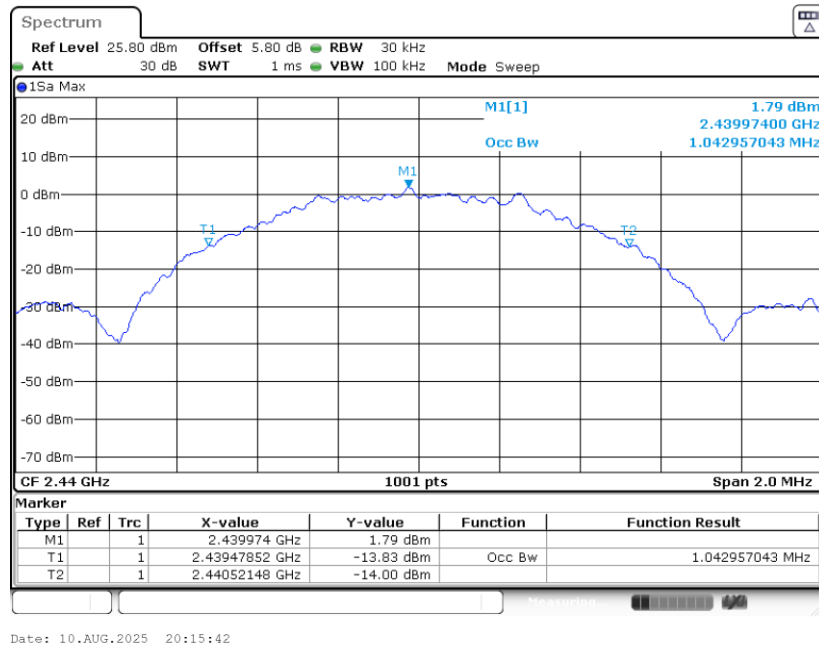
Please refer to Appendix A.

BLE 1Mbps

99% Occupied Bandwidth Plot on Channel 00

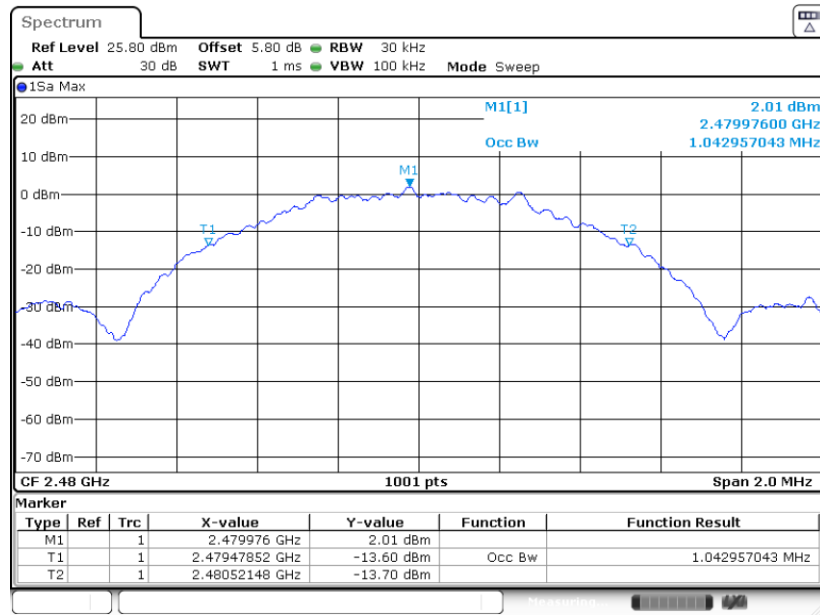


99% Occupied Bandwidth Plot on Channel 19



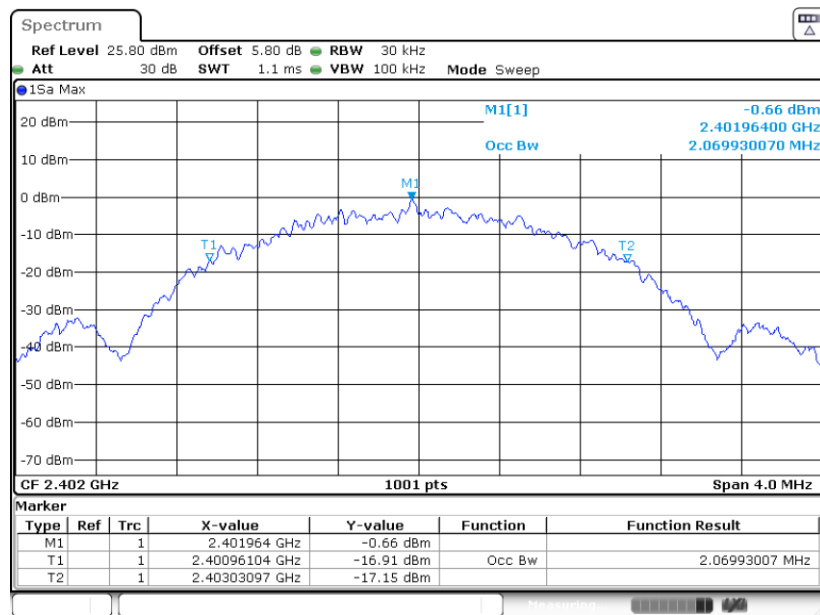


99% Occupied Bandwidth Plot on Channel 39



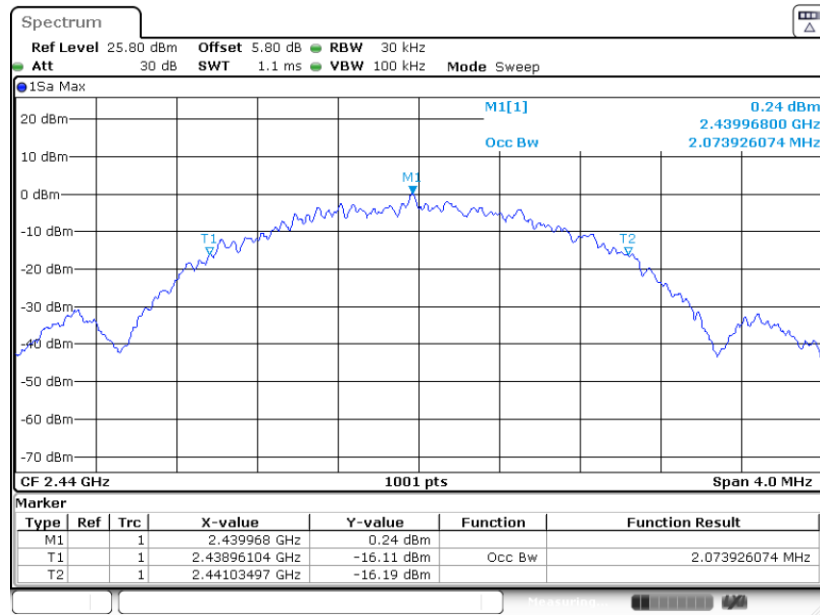
BLE 2Mbps

99% Occupied Bandwidth Plot on Channel 00

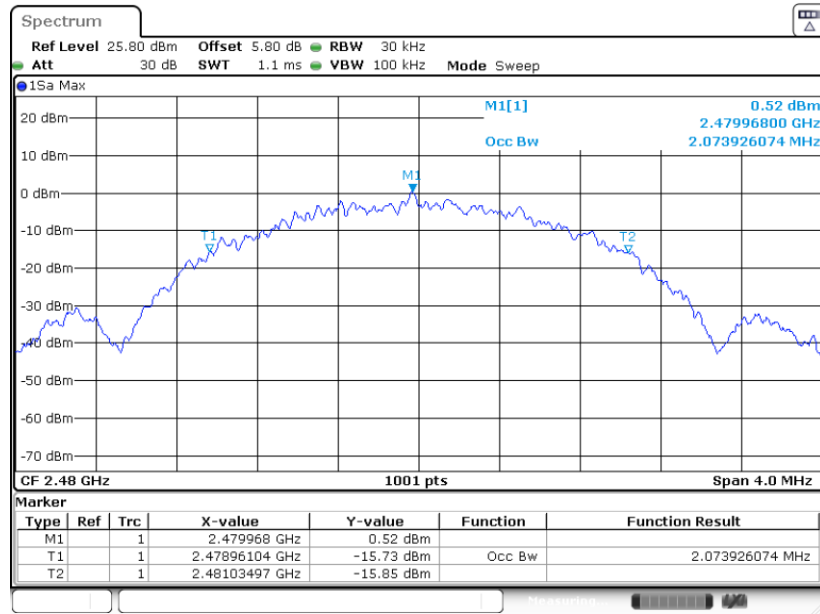




99% Occupied Bandwidth Plot on Channel 19



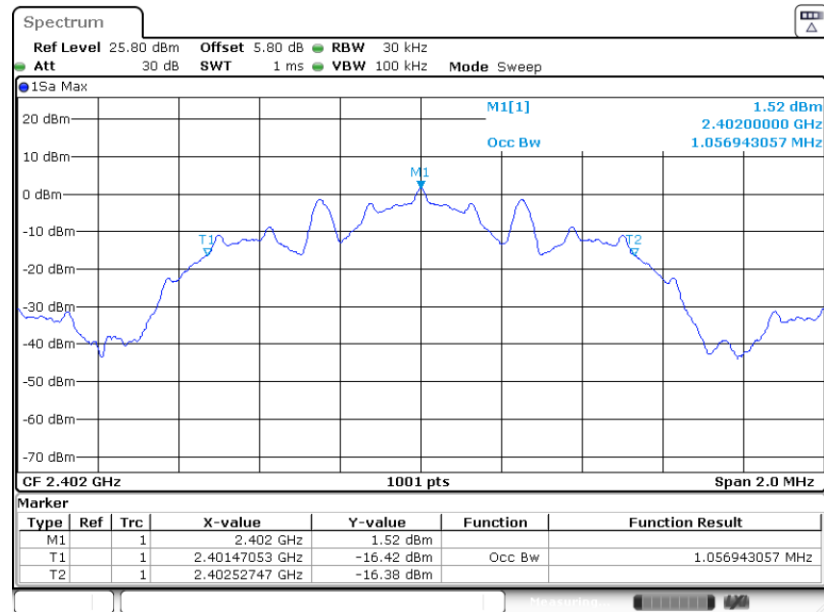
99% Occupied Bandwidth Plot on Channel 39



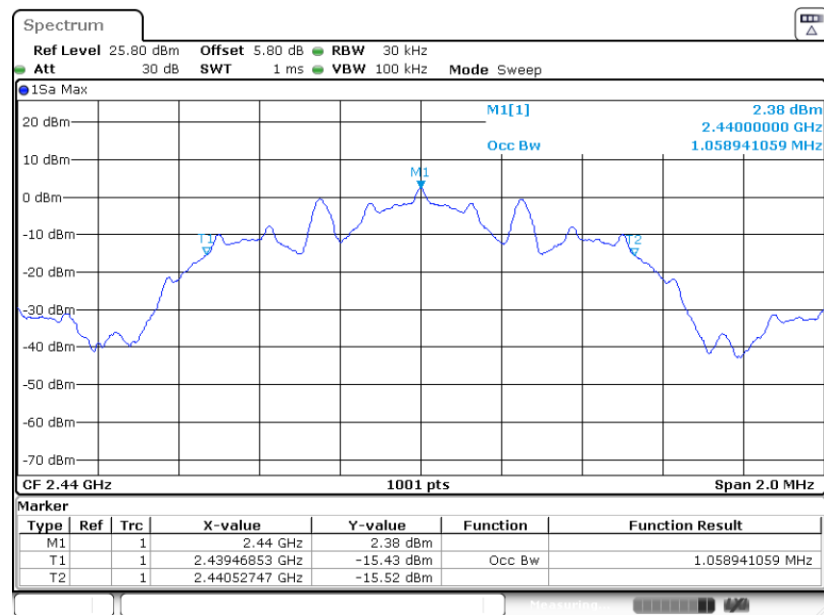


BLE 125Kbps

99% Occupied Bandwidth Plot on Channel 00

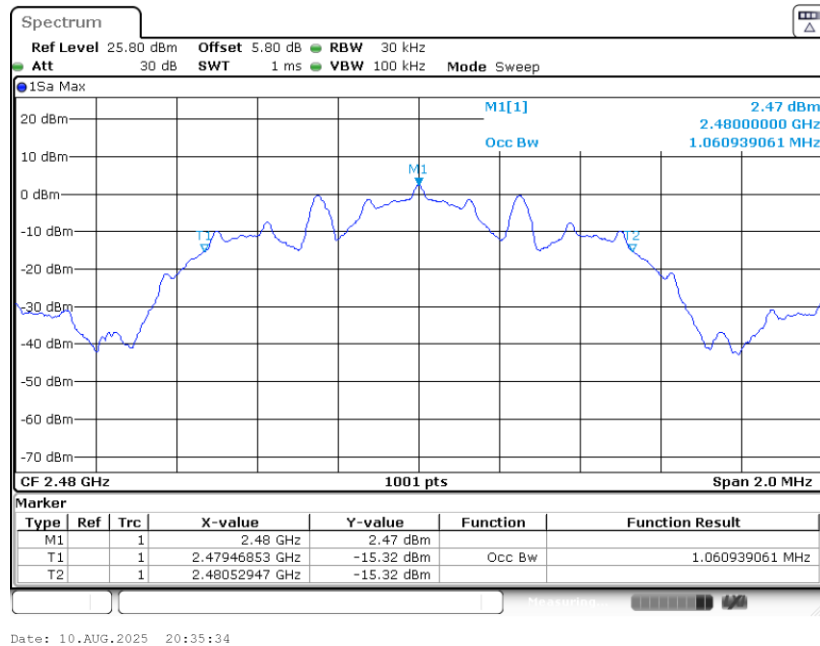


99% Occupied Bandwidth Plot on Channel 19



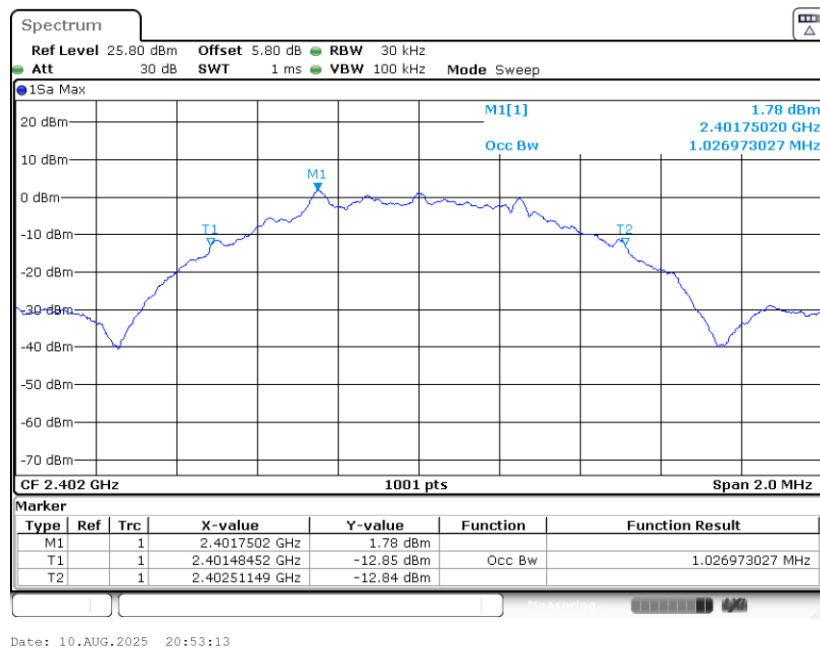


99% Occupied Bandwidth Plot on Channel 39



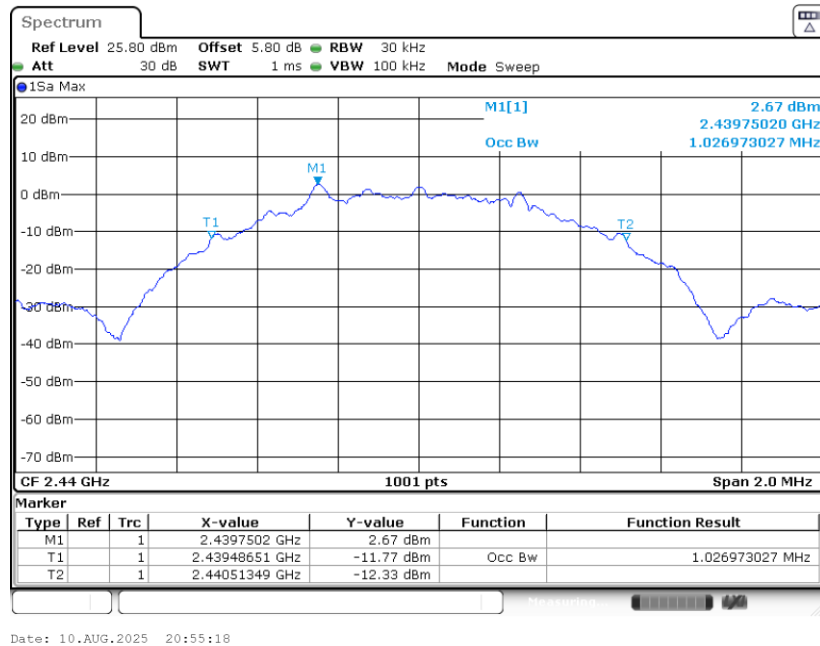
BLE 500Kbps

99% Occupied Bandwidth Plot on Channel 00

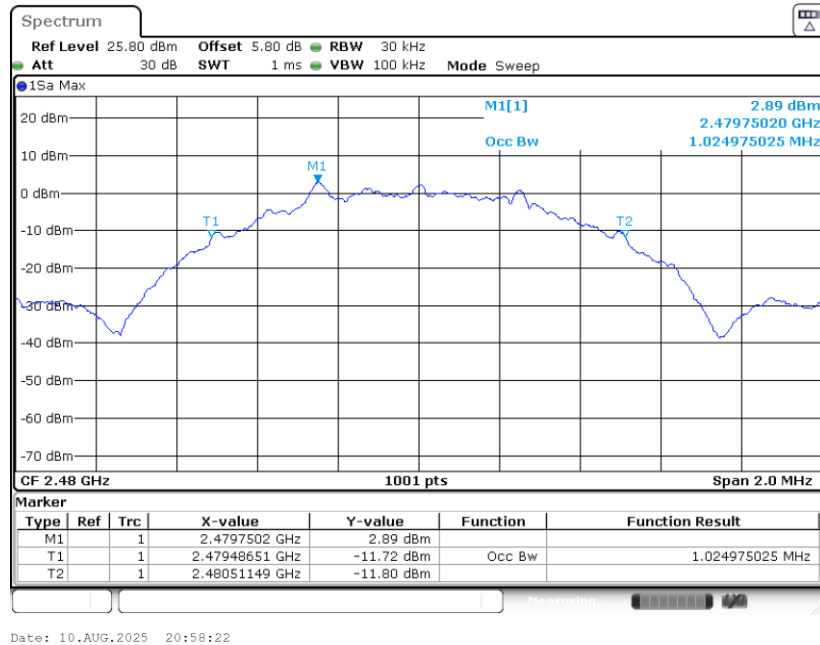




99% Occupied Bandwidth Plot on Channel 19



99% Occupied Bandwidth Plot on Channel 39



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the 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 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

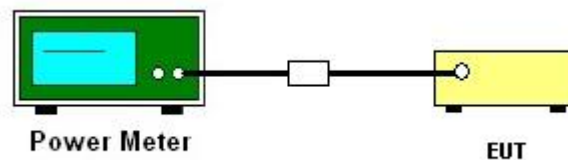
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 clause 11.9.1.2 PKPM1 Peak power meter or ANSI C63.10-2020 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power

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 8dBm in any 3kHz band at any time interval of continuous transmission.

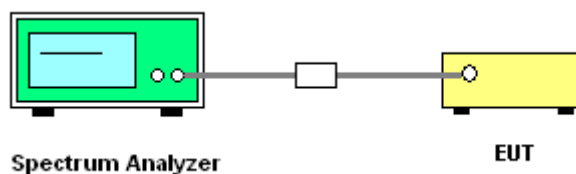
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2020 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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. (6dB 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)/ 100kHz is a reference level and used as 20dBc 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

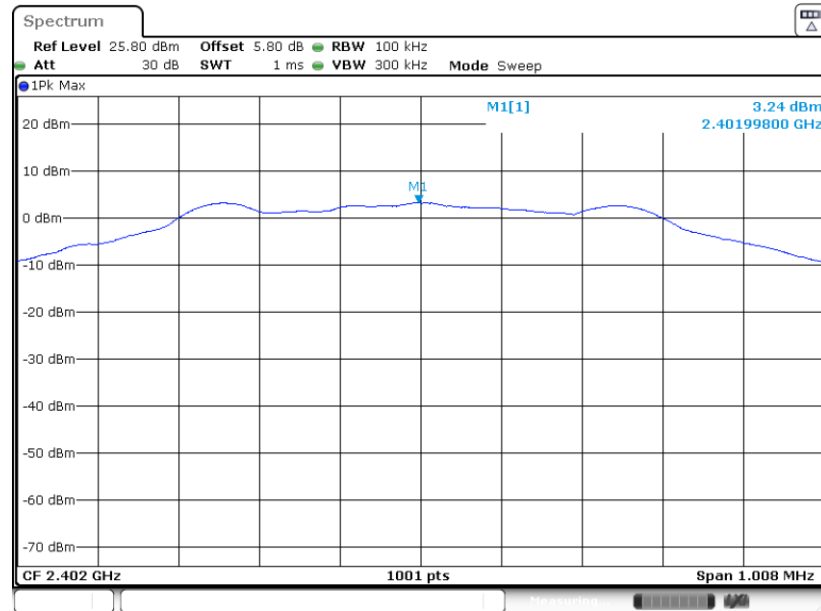
Please refer to Appendix A.



3.3.6 Test Result of Power Spectral Density Plots (100kHz)

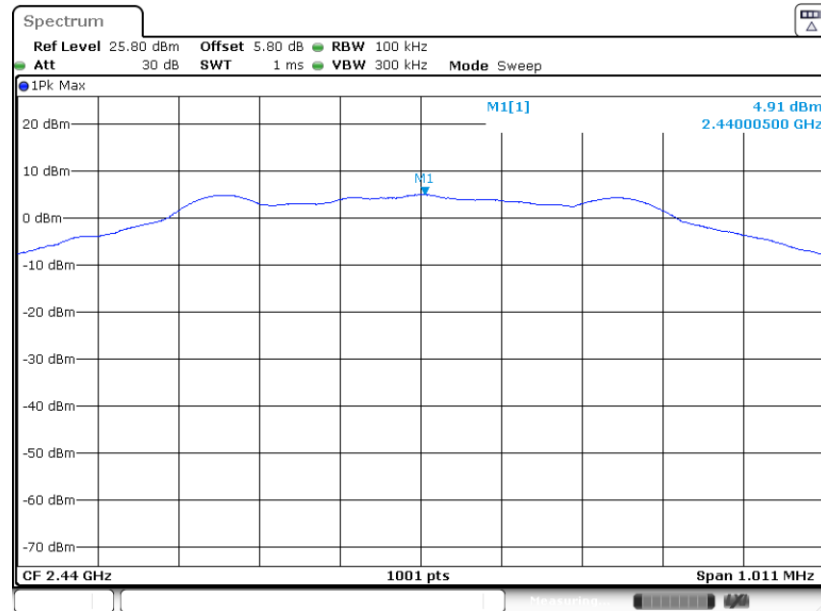
BLE 1Mbps

PSD 100kHz Plot on Channel 00



Date: 10.AUG.2025 20:10:59

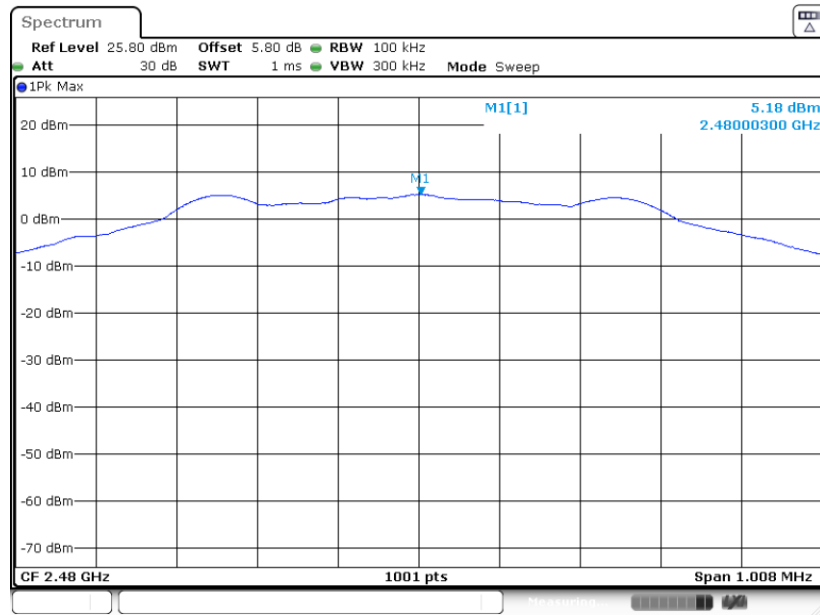
PSD 100kHz Plot on Channel 19



Date: 10.AUG.2025 20:14:52



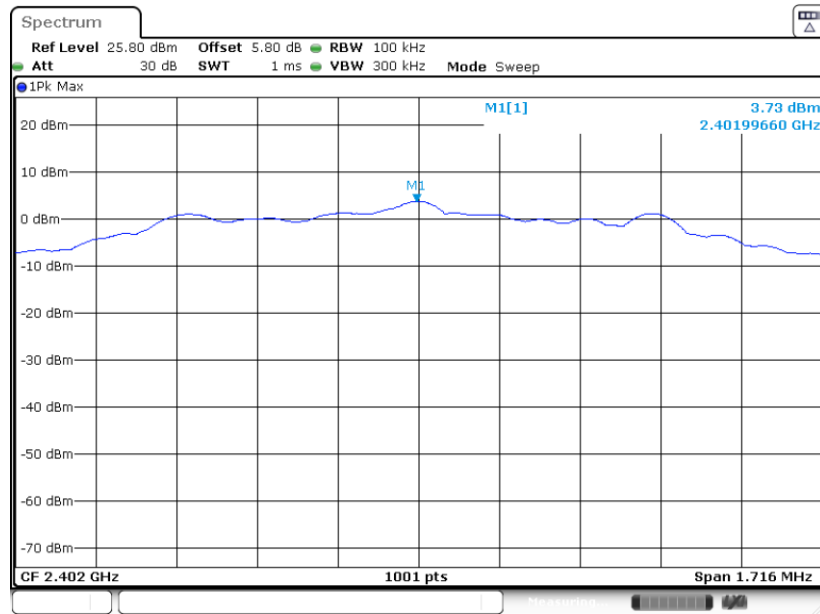
PSD 100kHz Plot on Channel 39



Date: 10.AUG.2025 20:17:17

BLE 2Mbps

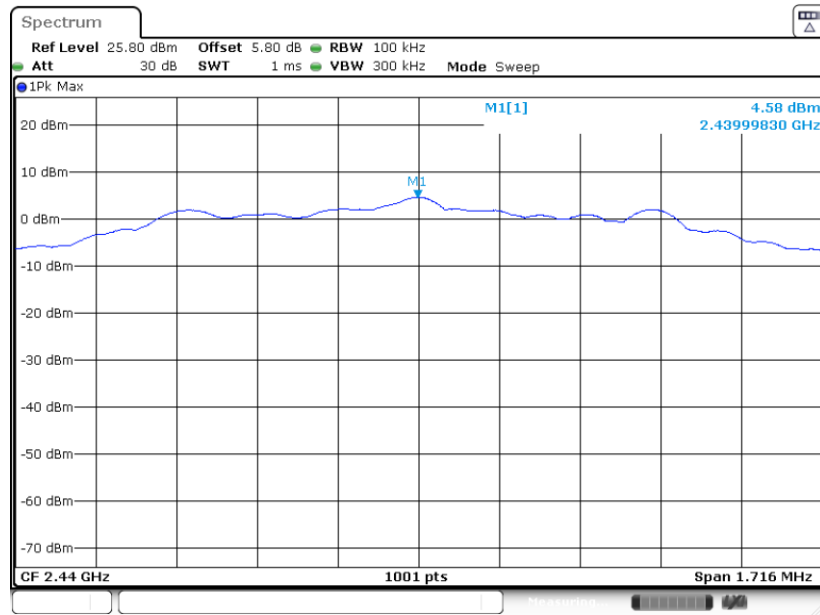
PSD 100kHz Plot on Channel 00



Date: 10.AUG.2025 20:20:02

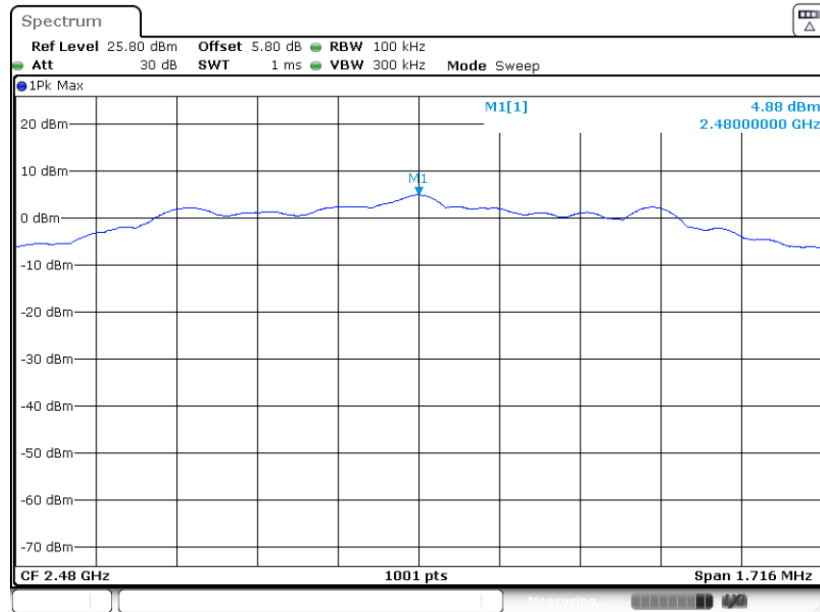


PSD 100kHz Plot on Channel 19



Date: 10.AUG.2025 20:22:42

PSD 100kHz Plot on Channel 39

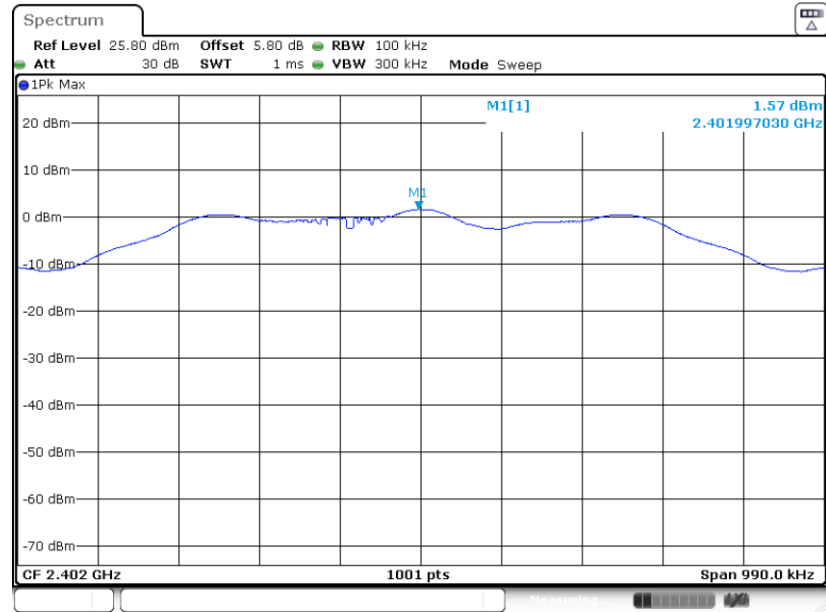


Date: 10.AUG.2025 20:25:14



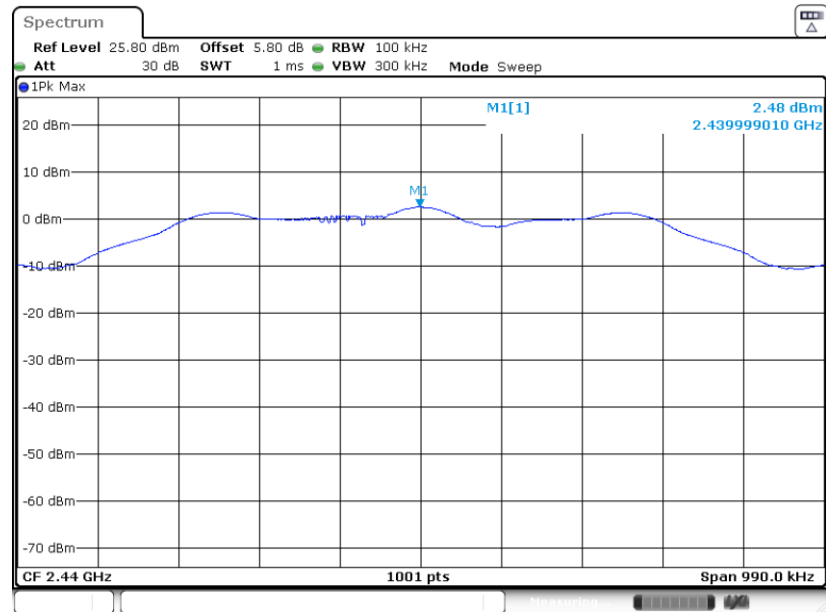
BLE 125Kbps

PSD 100kHz Plot on Channel 00



Date: 10.AUG.2025 20:29:26

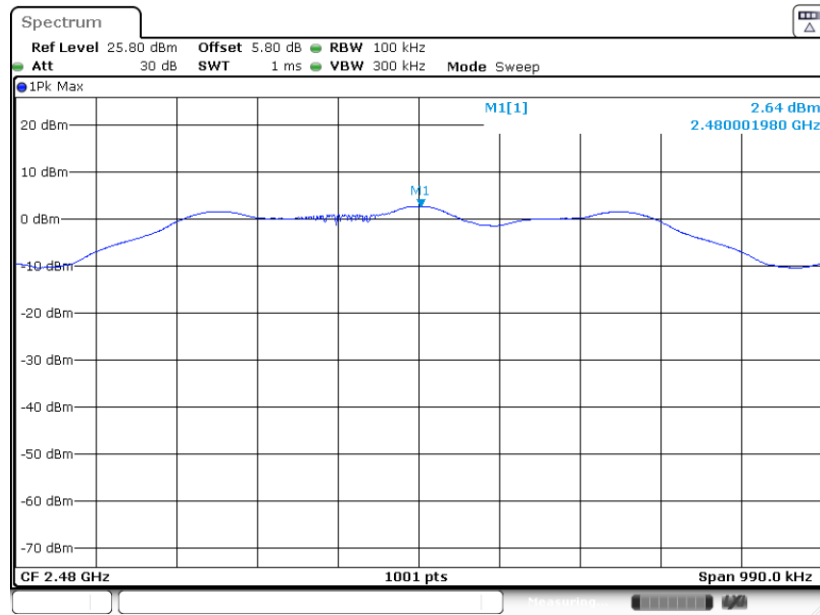
PSD 100kHz Plot on Channel 19



Date: 10.AUG.2025 20:32:01



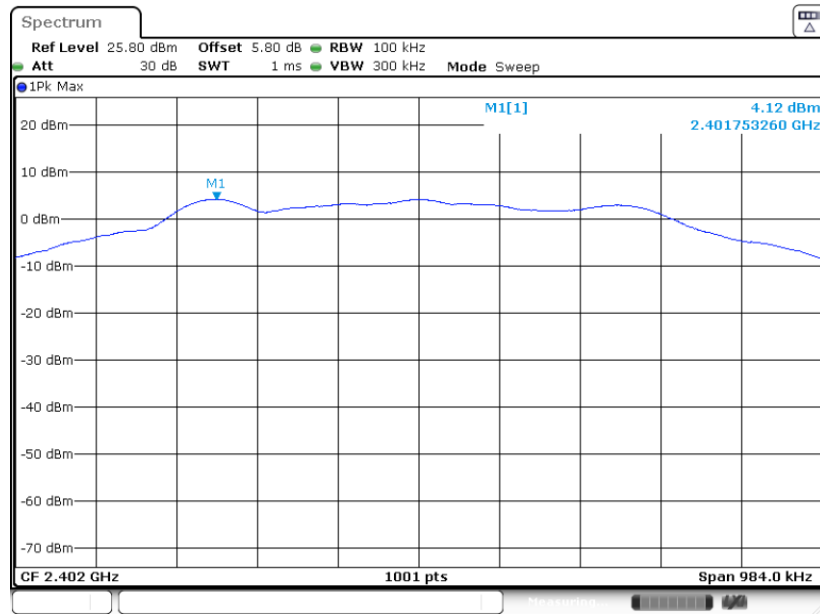
PSD 100kHz Plot on Channel 39



Date: 10.AUG.2025 20:34:24

BLE 500Kbps

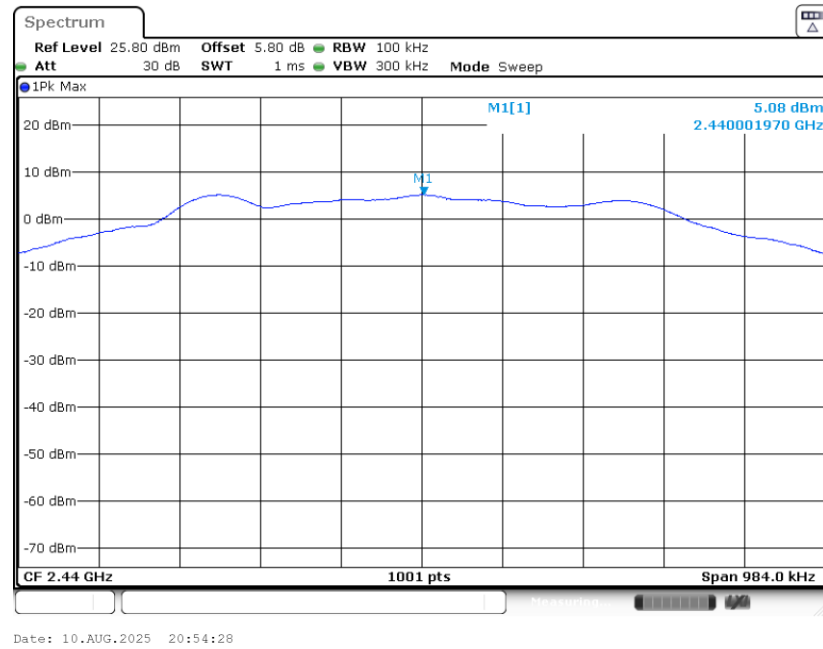
PSD 100kHz Plot on Channel 00



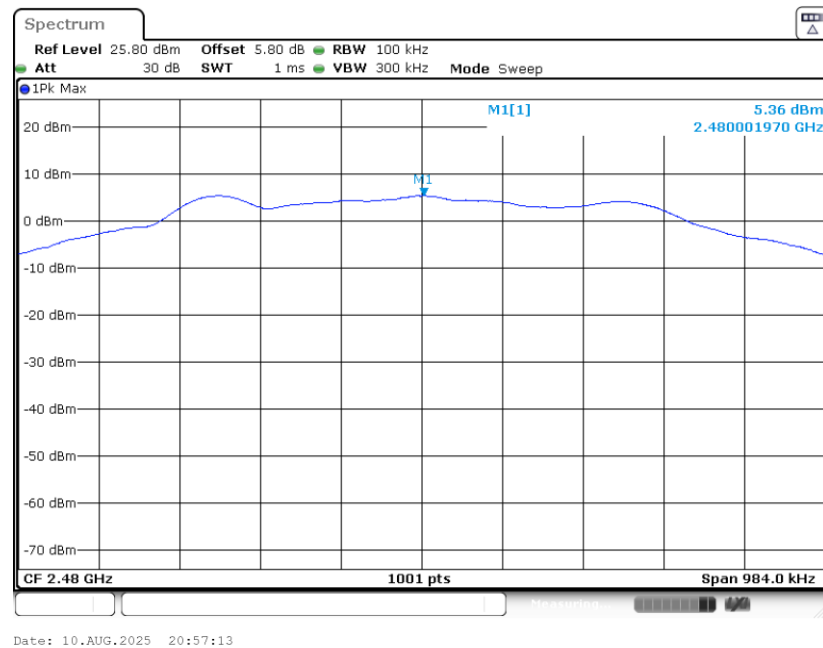
Date: 10.AUG.2025 20:52:04



PSD 100kHz Plot on Channel 19



PSD 100kHz Plot on Channel 39

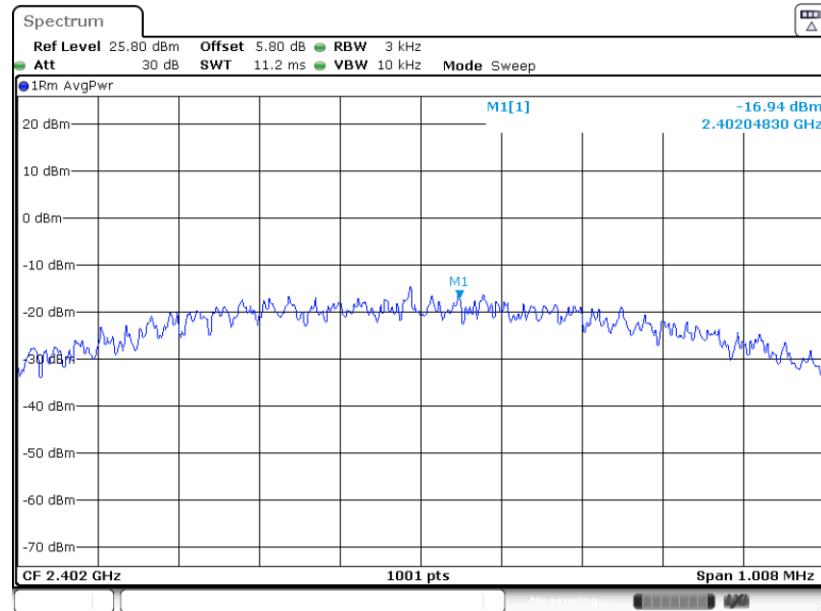




3.3.7 Test Result of Power Spectral Density Plots (3kHz)

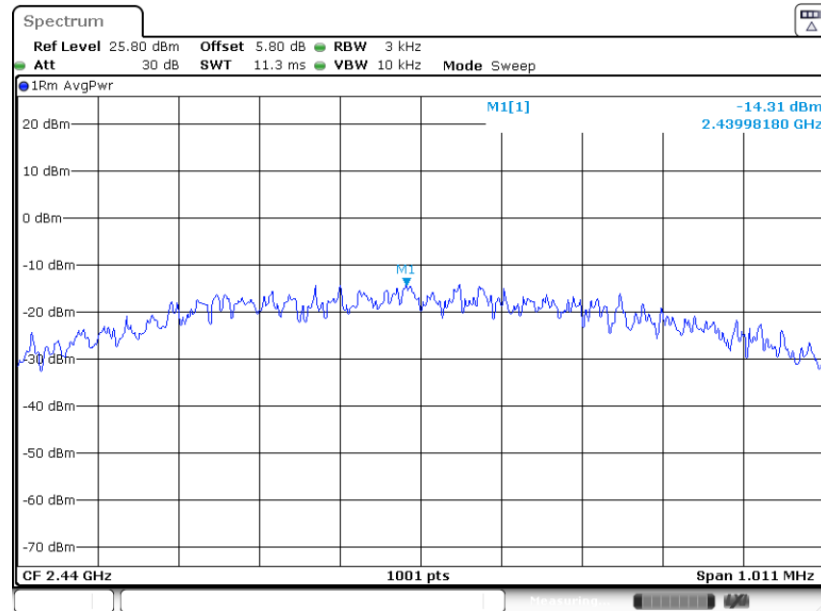
BLE 1Mbps

PSD 3kHz Plot on Channel 00



Date: 10.AUG.2025 20:10:40

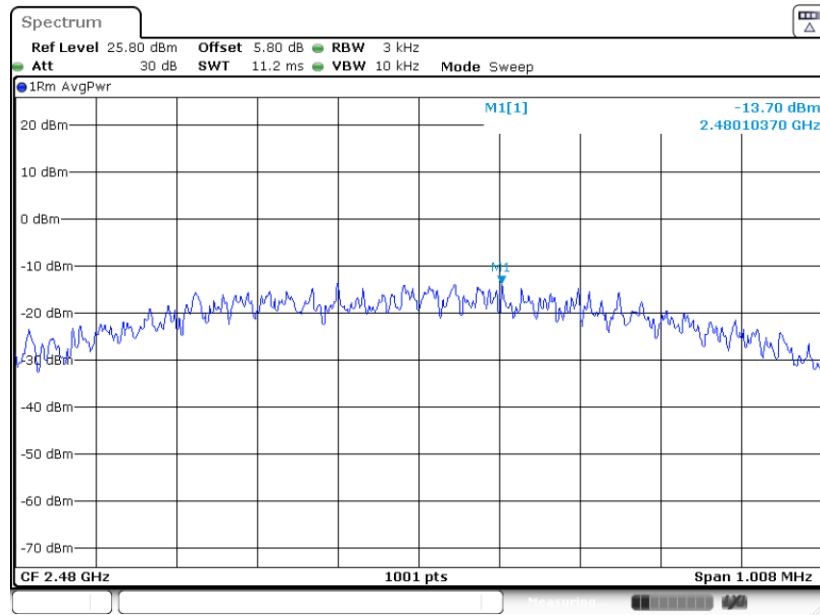
PSD 3kHz Plot on Channel 19



Date: 10.AUG.2025 20:14:33

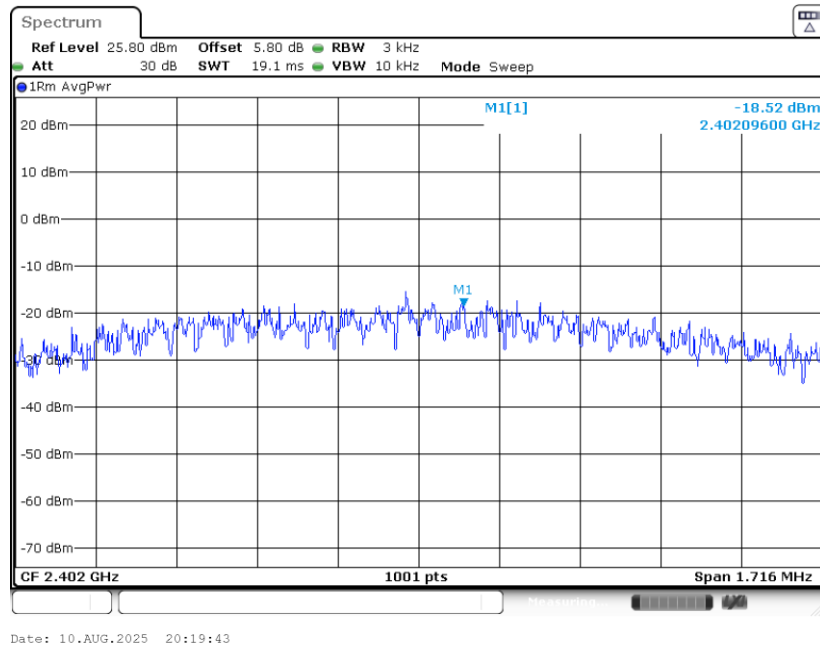


PSD 3kHz Plot on Channel 39



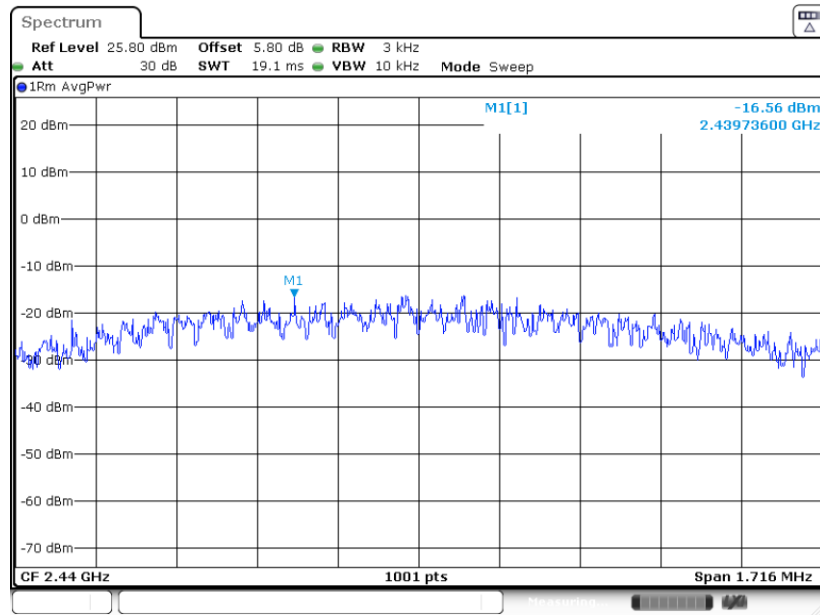
BLE 2Mbps

PSD 3kHz Plot on Channel 00



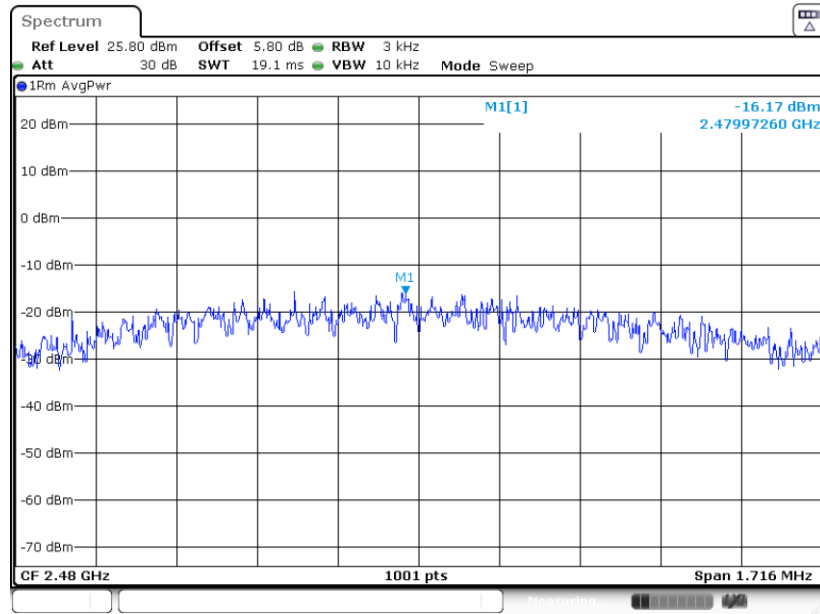


PSD 3kHz Plot on Channel 19



Date: 10.AUG.2025 20:22:23

PSD 3kHz Plot on Channel 39

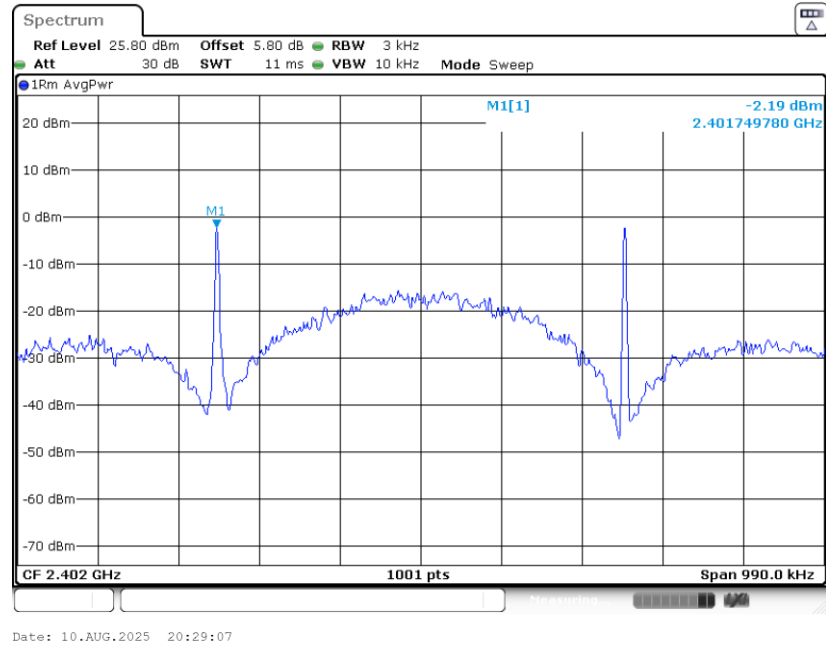


Date: 10.AUG.2025 20:24:55

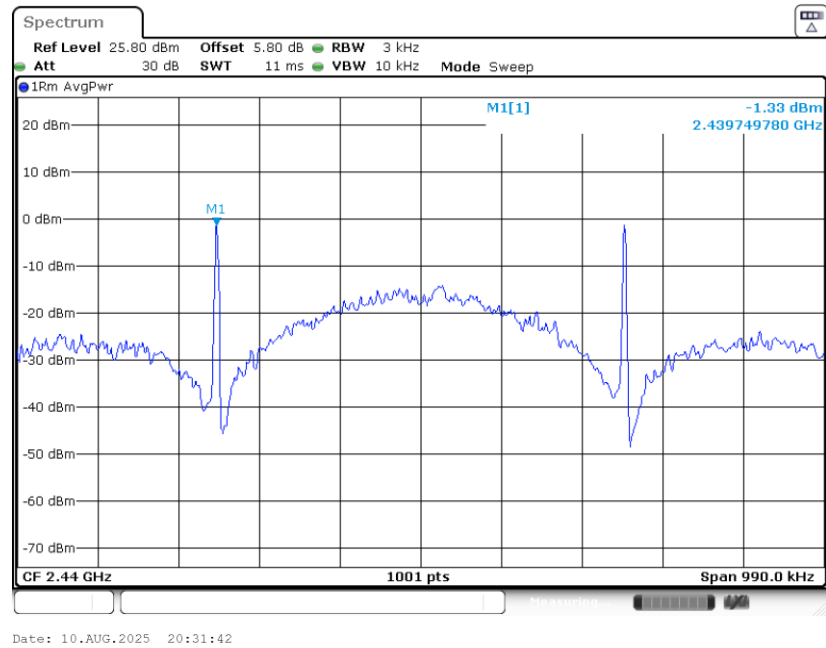


BLE 125Kbps

PSD 3kHz Plot on Channel 00

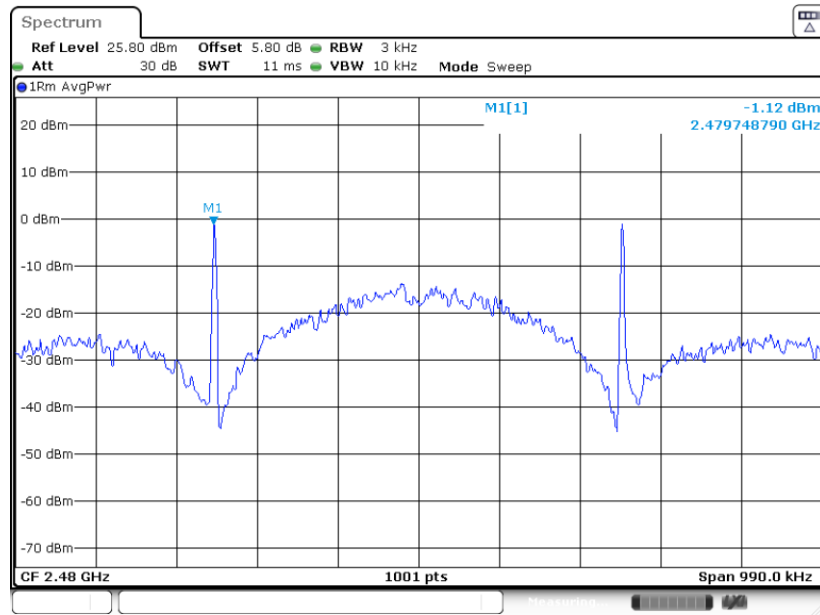


PSD 3kHz Plot on Channel 19





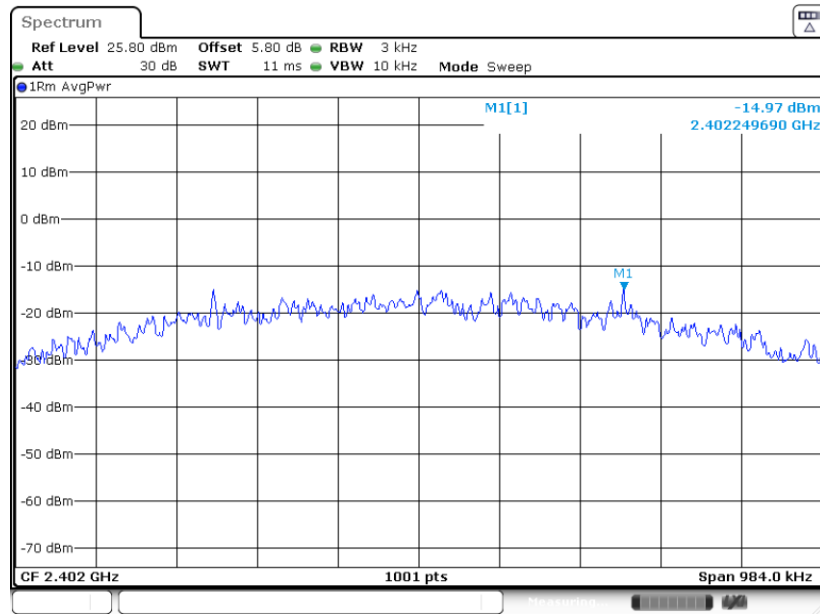
PSD 3kHz Plot on Channel 39



Date: 10.AUG.2025 20:34:05

BLE 500Kbps

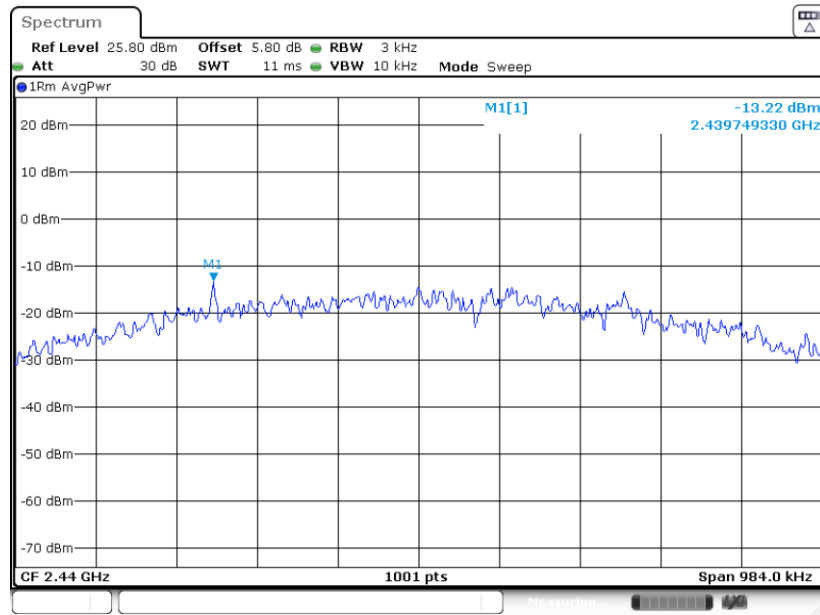
PSD 3kHz Plot on Channel 00



Date: 10.AUG.2025 20:51:45

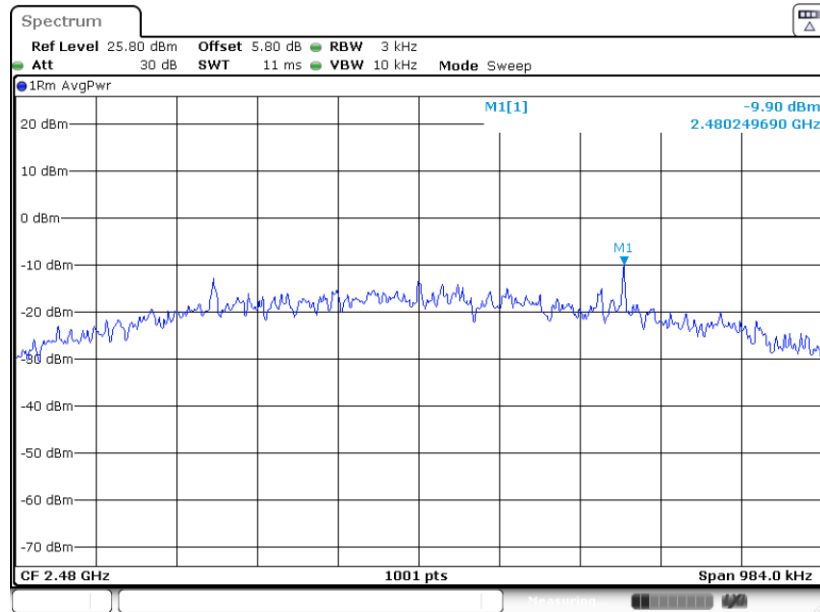


PSD 3kHz Plot on Channel 19



Date: 10.AUG.2025 20:54:09

PSD 3kHz Plot on Channel 39



Date: 10.AUG.2025 20:56:54

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

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

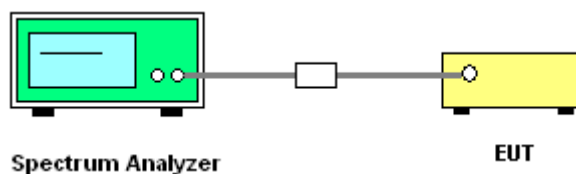
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2020 clause 11.11.3
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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.

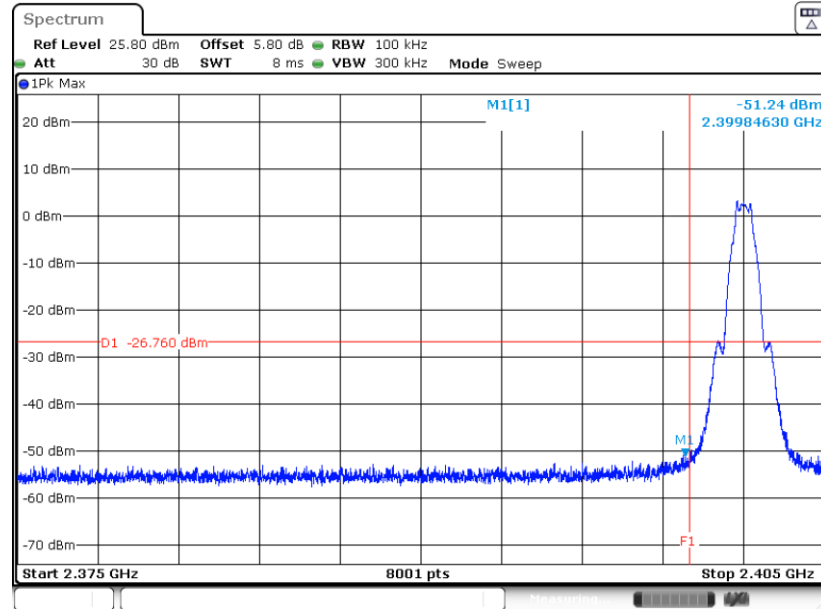
3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

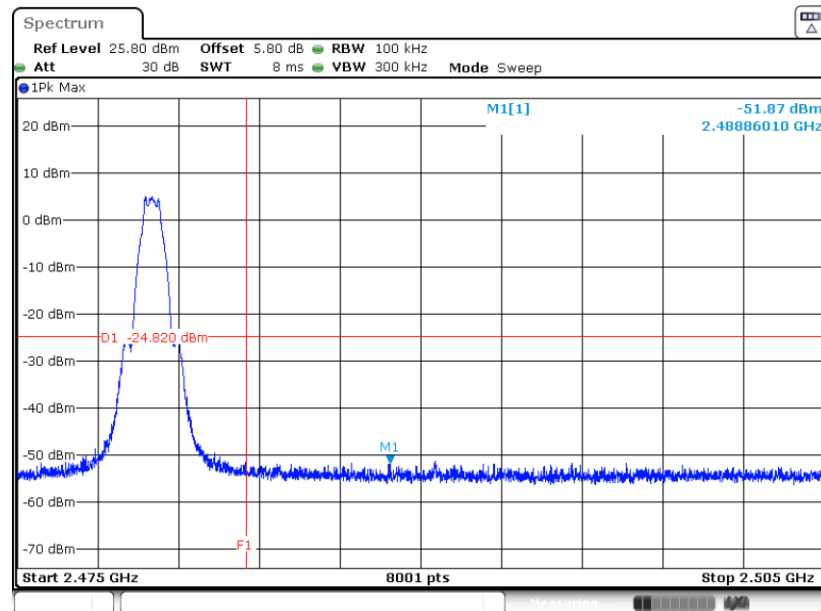
BLE 1Mbps

Low Band Edge Plot on Channel 00



Date: 10.AUG.2025 20:11:18

High Band Edge Plot on Channel 39

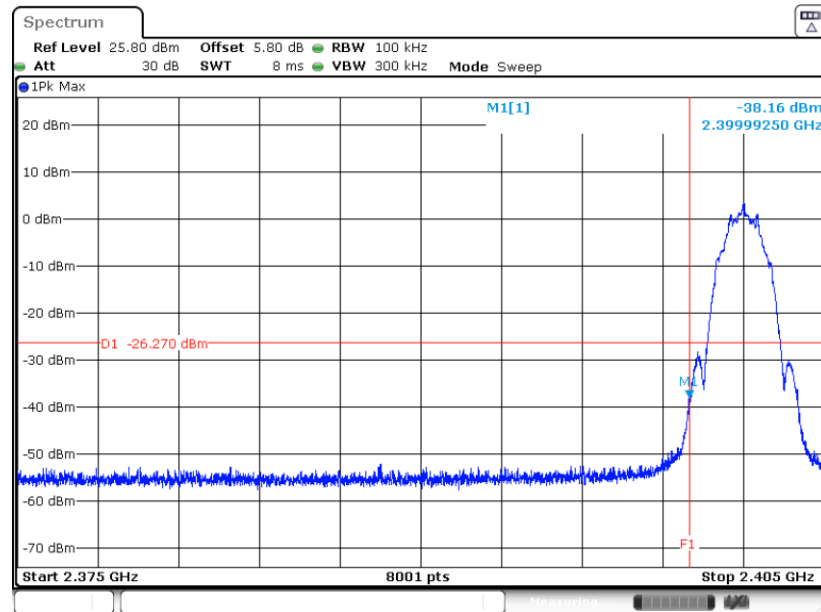


Date: 10.AUG.2025 20:17:36



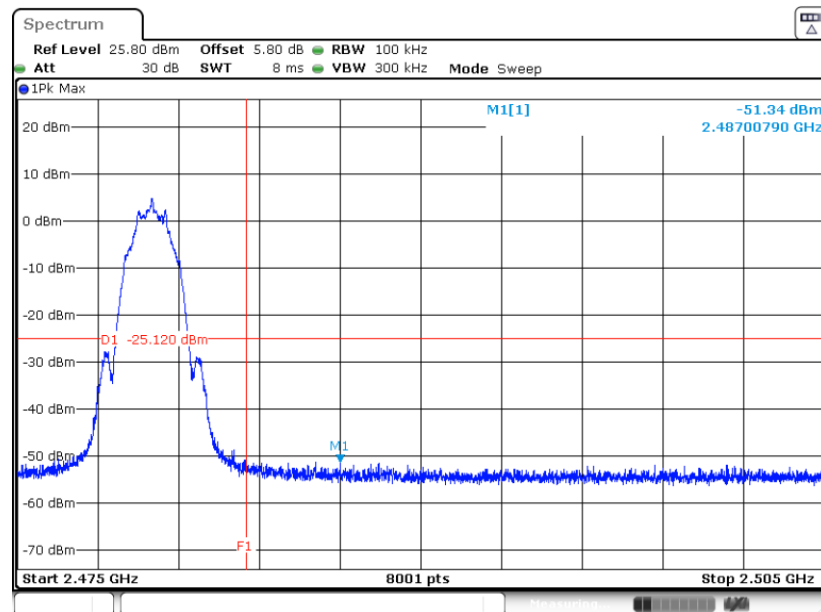
BLE 2Mbps

Low Band Edge Plot on Channel 00



Date: 10.AUG.2025 20:20:21

High Band Edge Plot on Channel 39

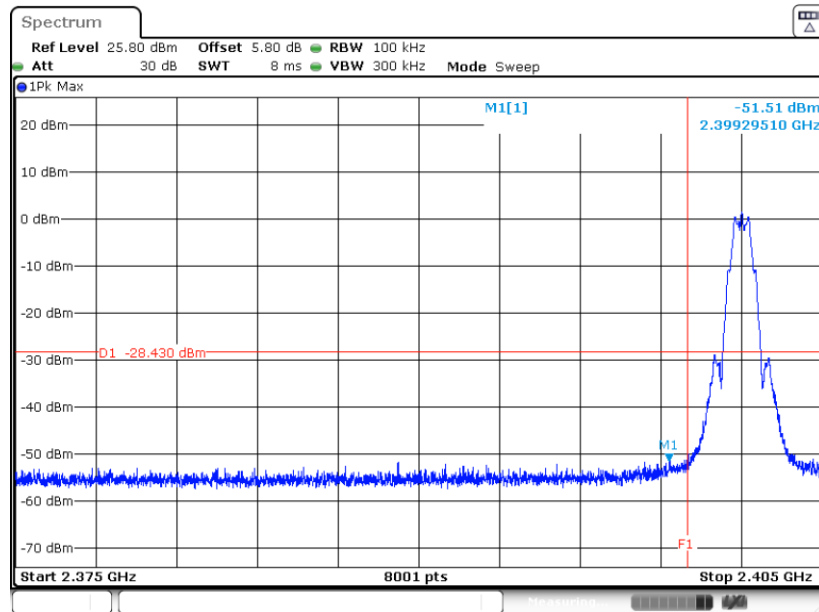


Date: 10.AUG.2025 20:25:33



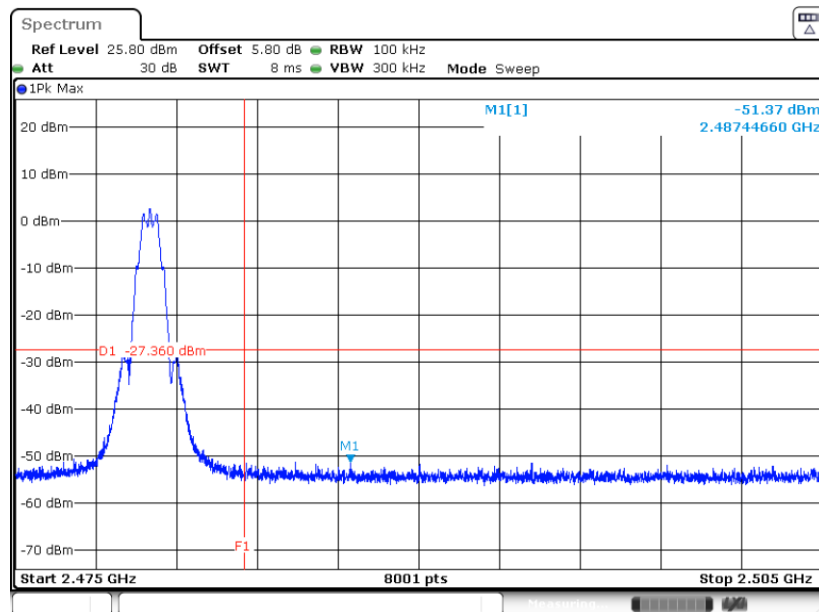
BLE 125Kbps

Low Band Edge Plot on Channel 00



Date: 10.AUG.2025 20:29:45

High Band Edge Plot on Channel 39

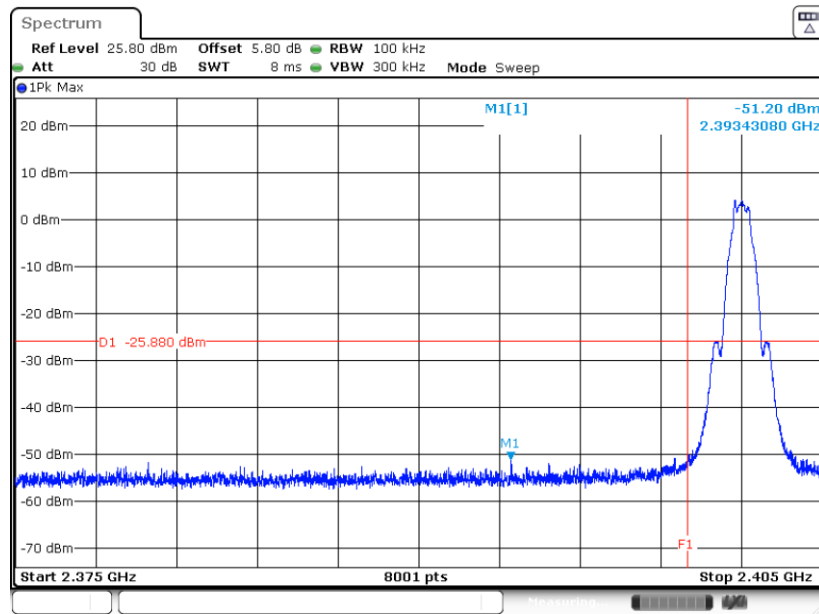


Date: 10.AUG.2025 20:34:43



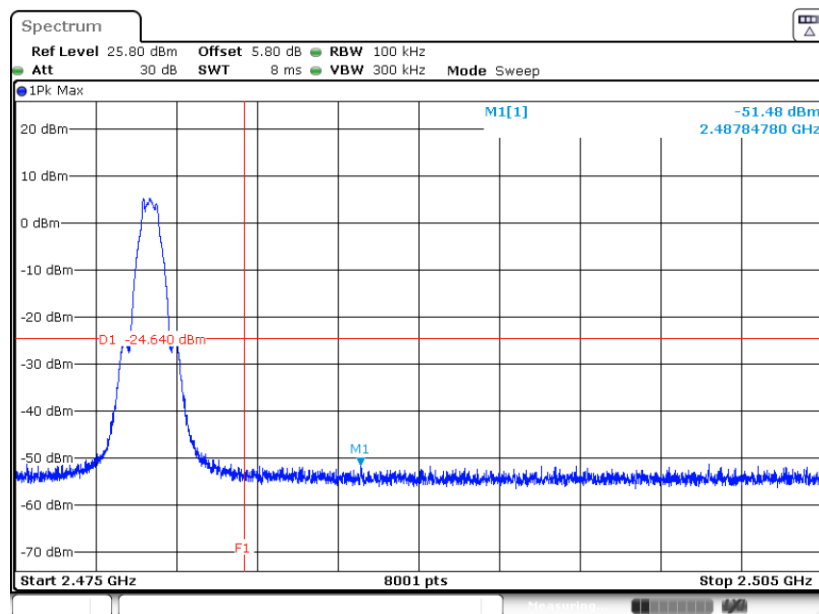
BLE 500Kbps

Low Band Edge Plot on Channel 00



Date: 10.AUG.2025 20:52:23

High Band Edge Plot on Channel 39

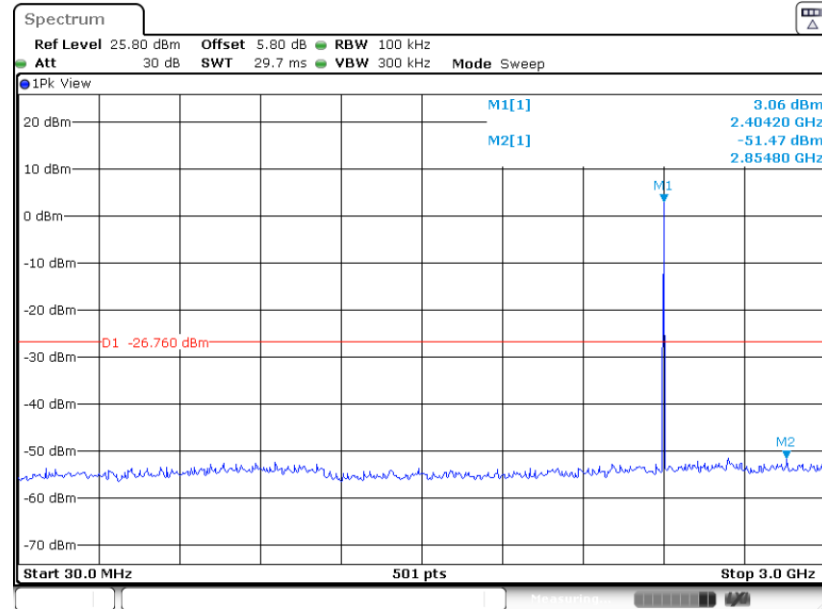


Date: 10.AUG.2025 20:57:32



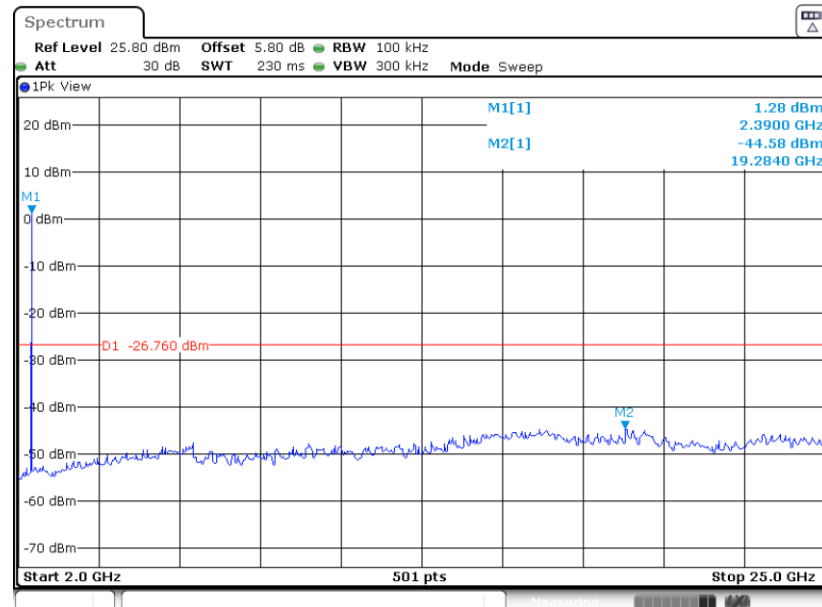
3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Date: 10.AUG.2025 20:11:39

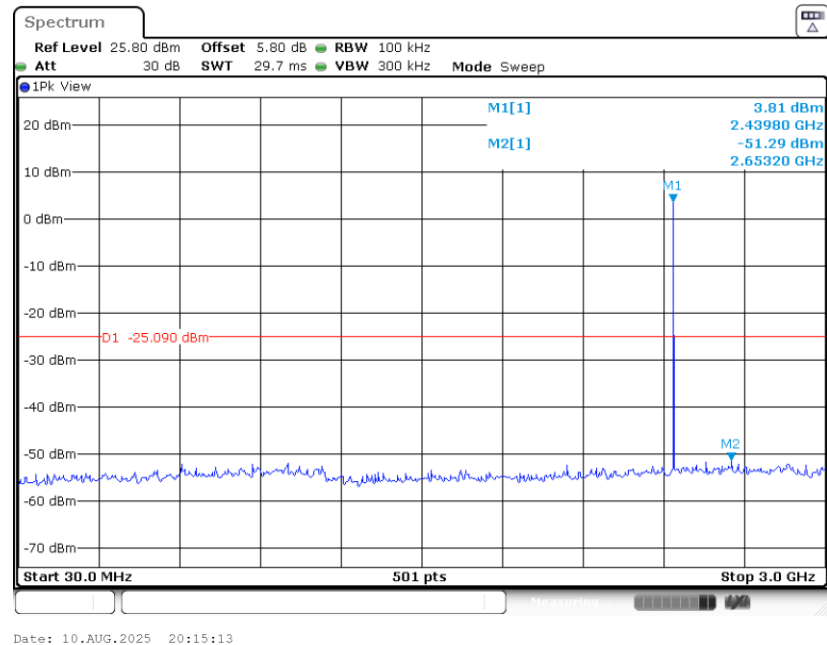
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



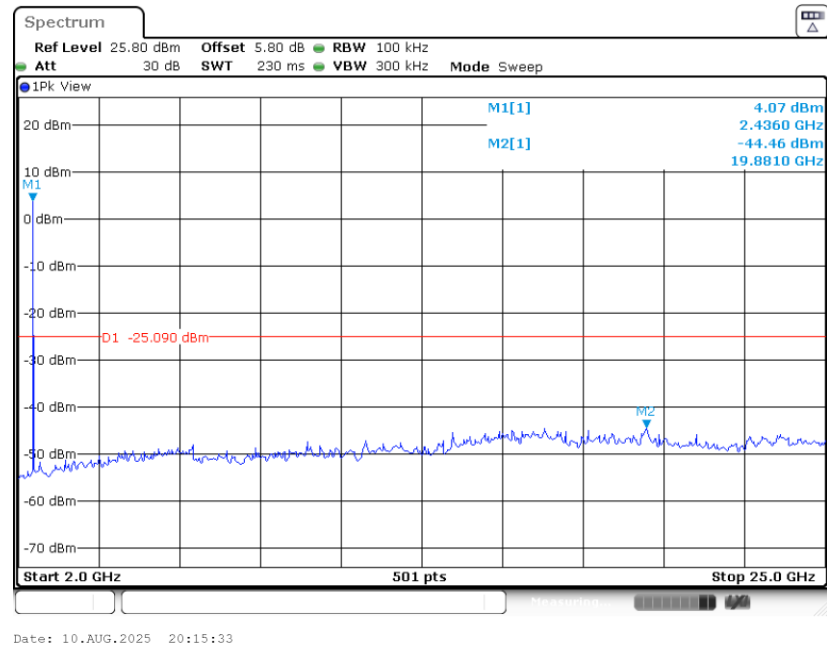
Date: 10.AUG.2025 20:11:59



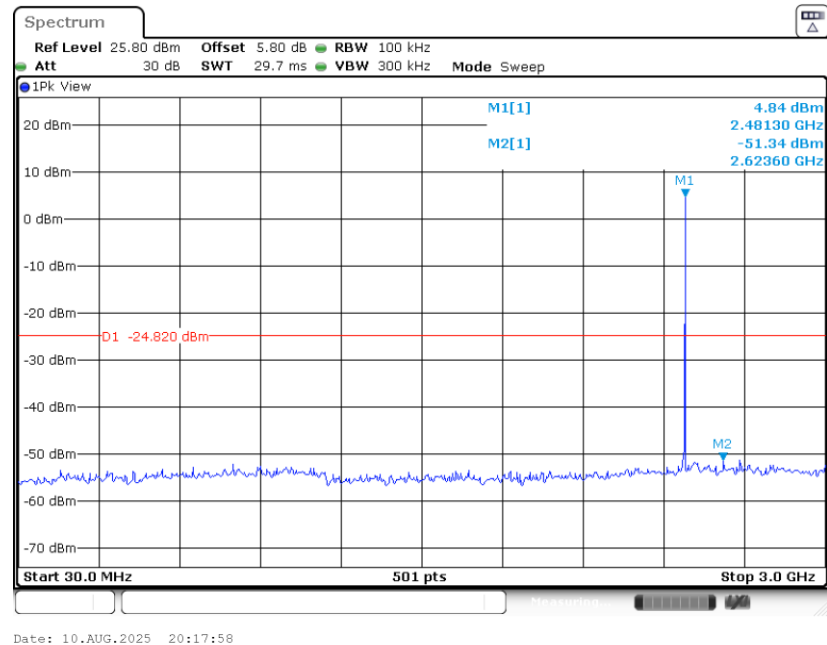
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



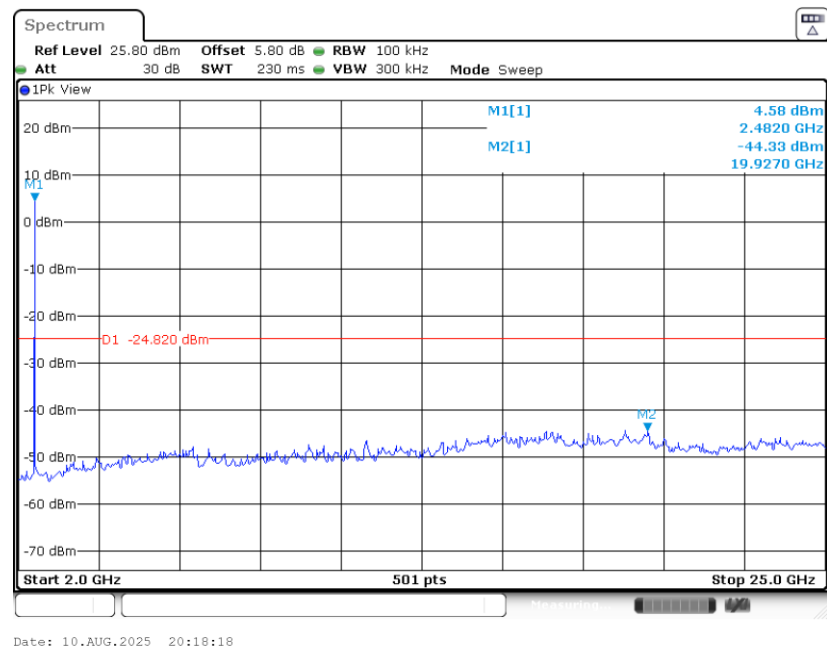
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39

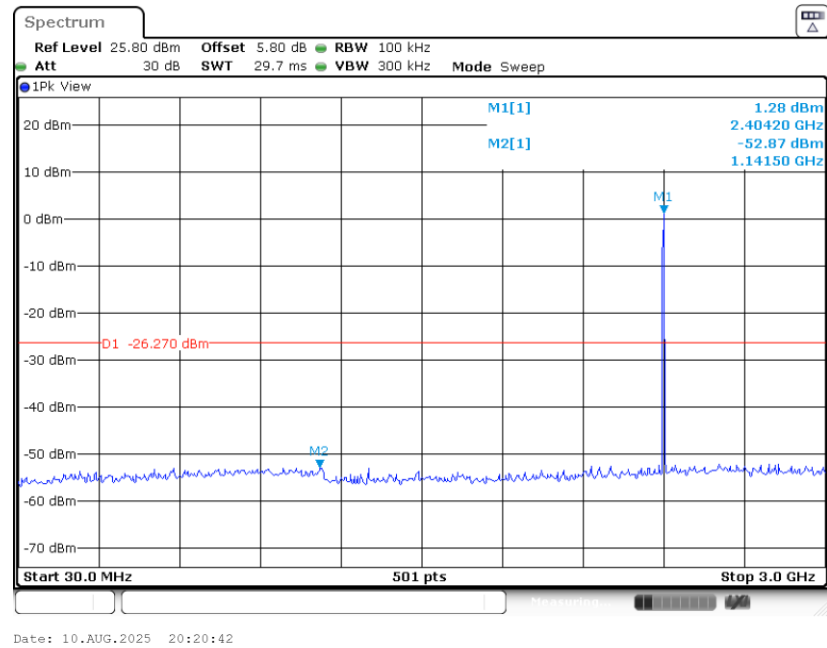


Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39

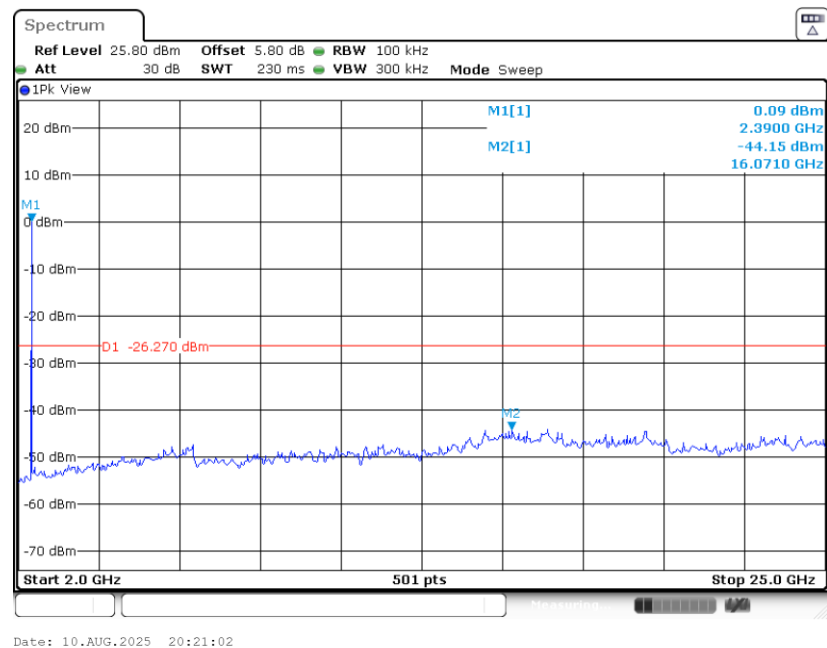




Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 00

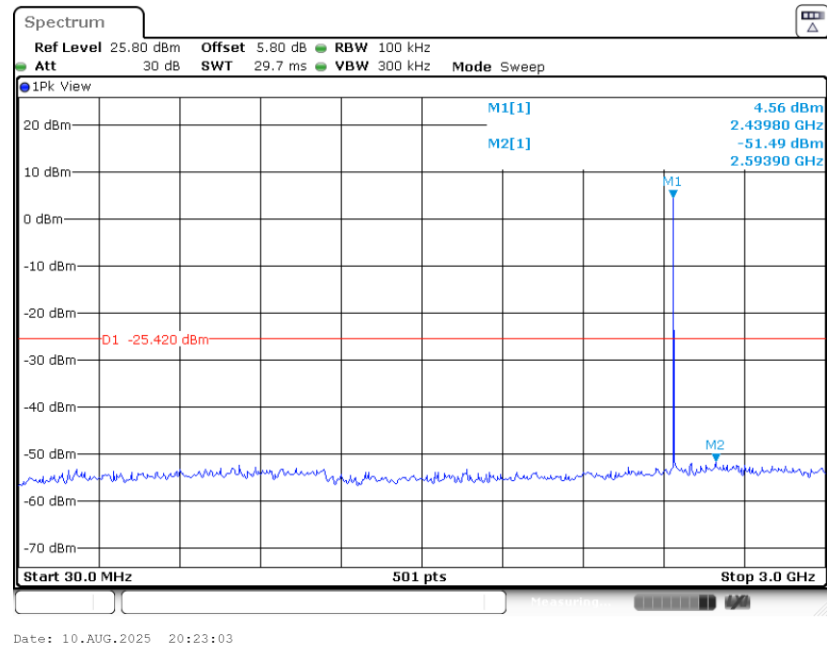


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 00

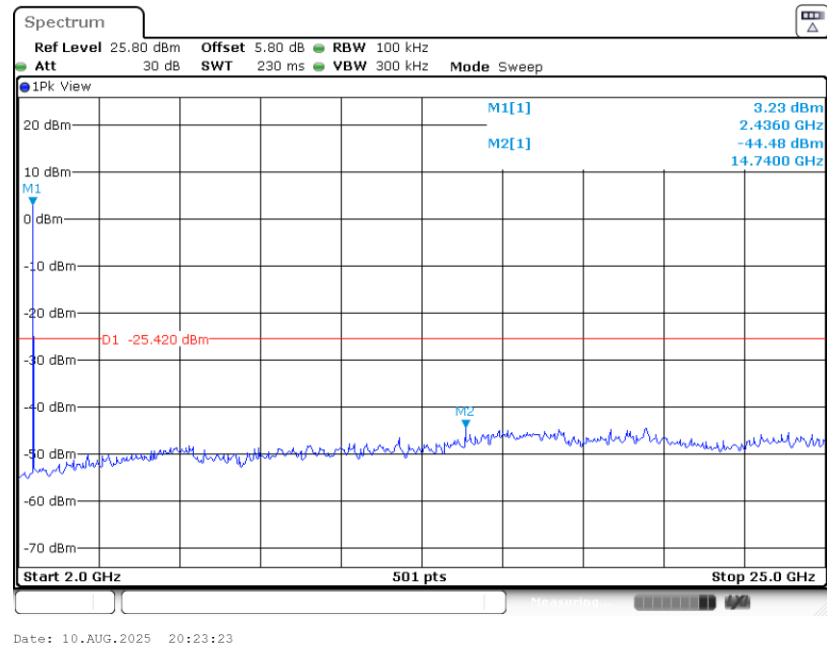




Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19

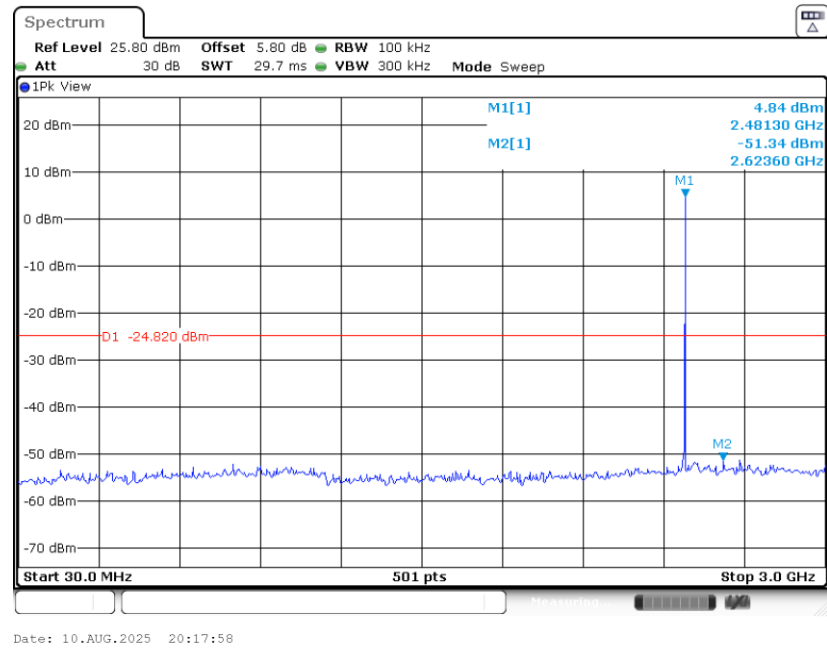


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19

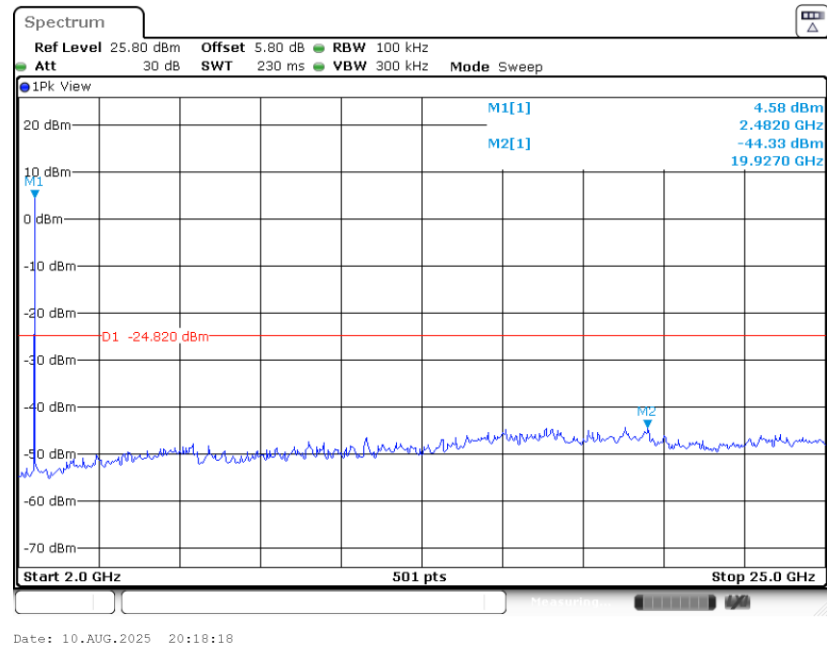




Conducted Spurious Emission Plot on Bluetooth LE 2Mbps
GFSK Channel 39

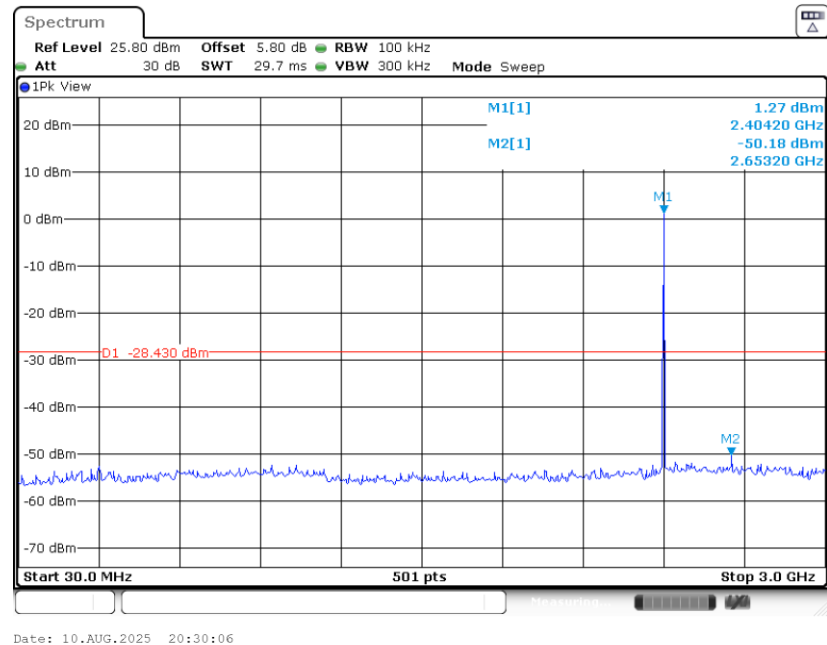


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps
GFSK Channel 39

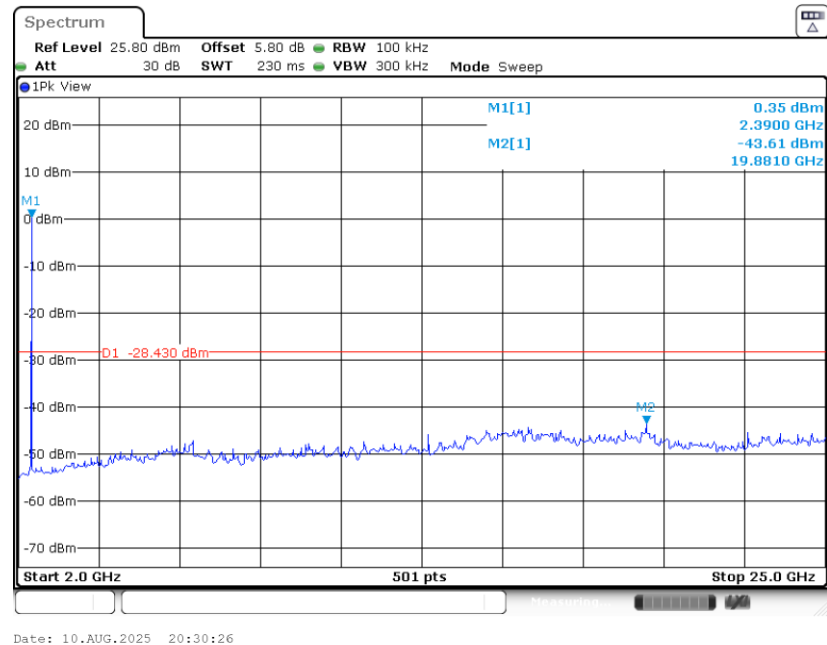




Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 00

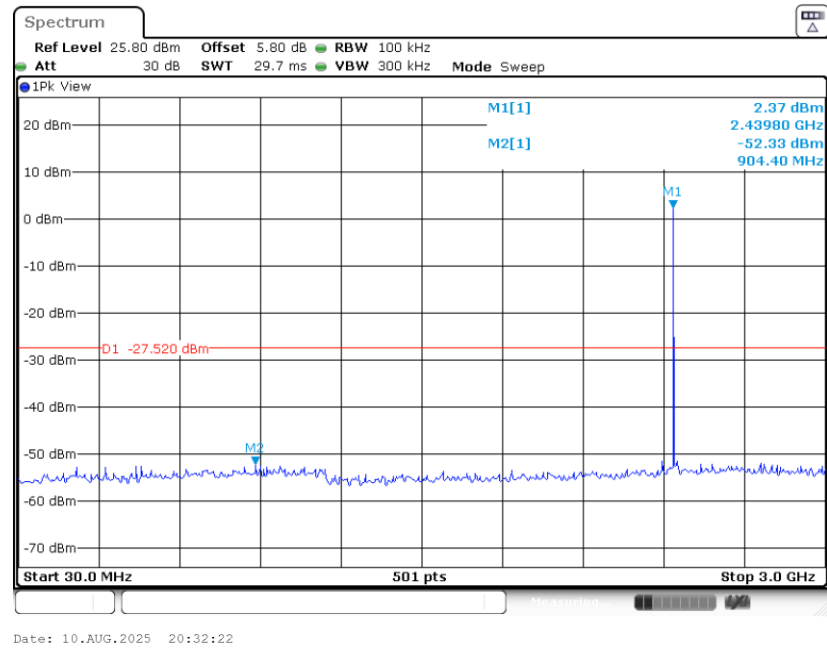


Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 00

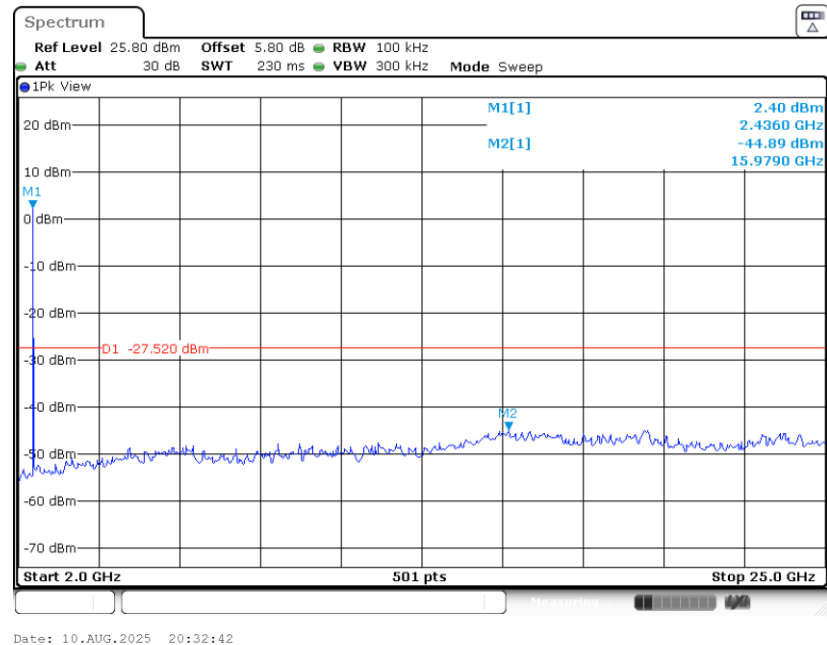




Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 19

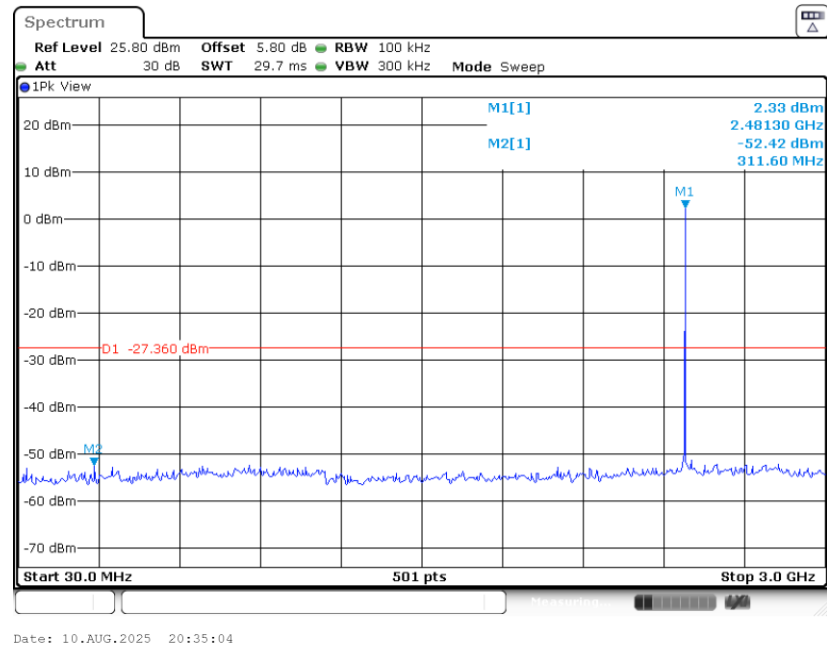


Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 19

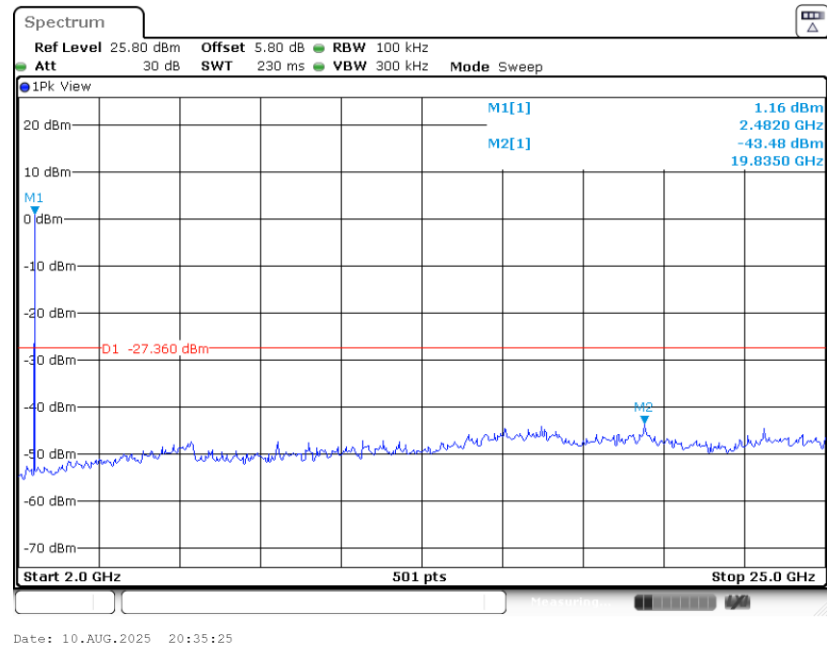




Conducted Spurious Emission Plot on Bluetooth LE 125Kbps
GFSK Channel 39

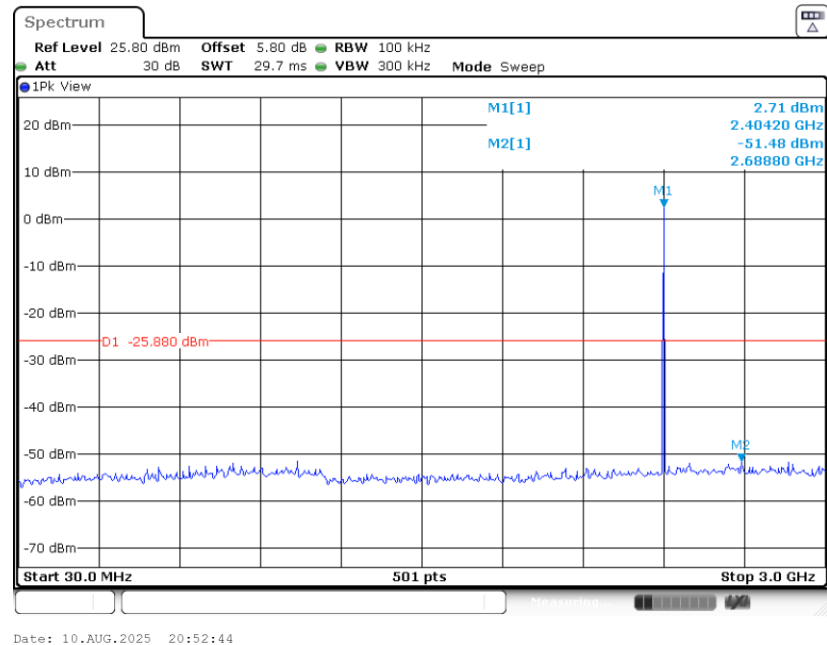


Conducted Spurious Emission Plot on Bluetooth LE 125Kbps
GFSK Channel 39

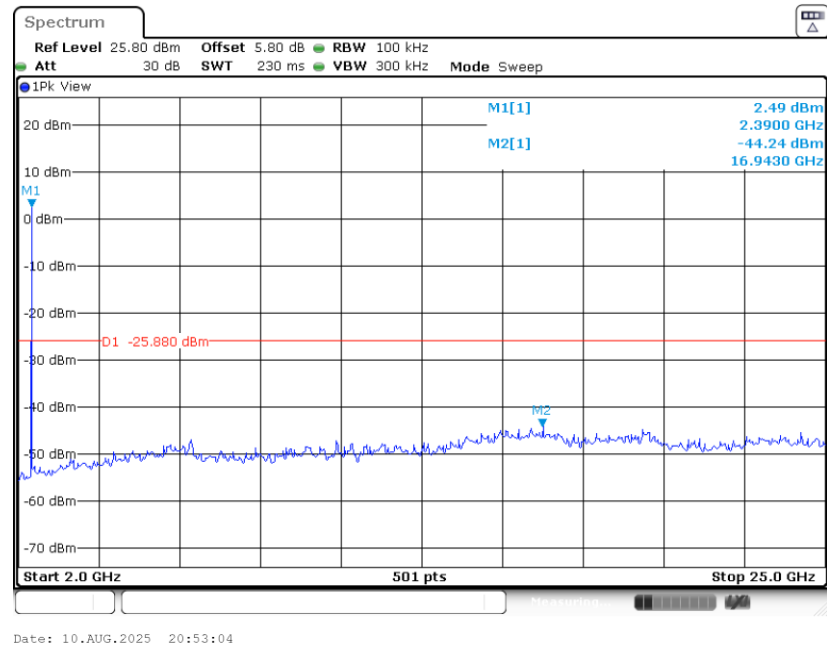




Conducted Spurious Emission Plot on Bluetooth LE 500Kbps GFSK Channel 00

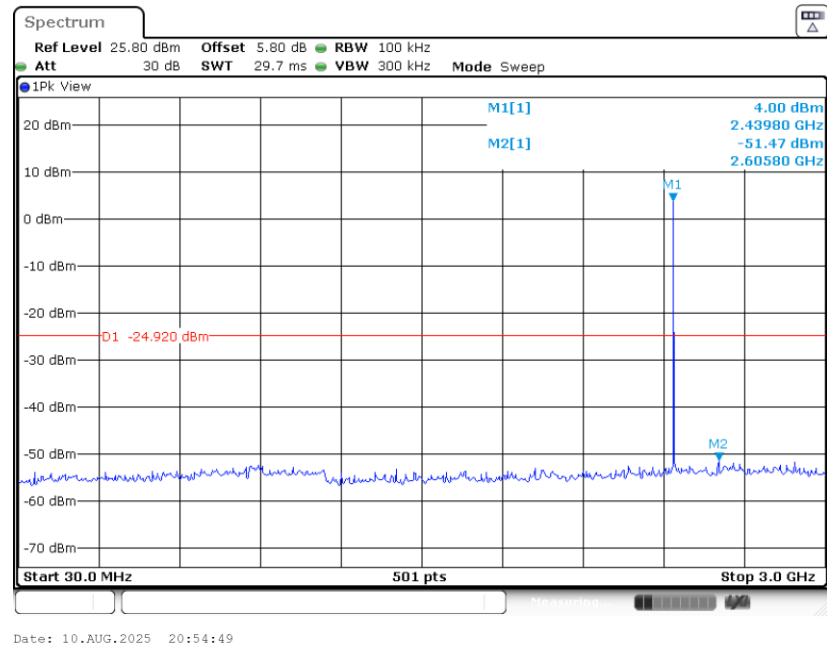


Conducted Spurious Emission Plot on Bluetooth LE 500Kbps GFSK Channel 00

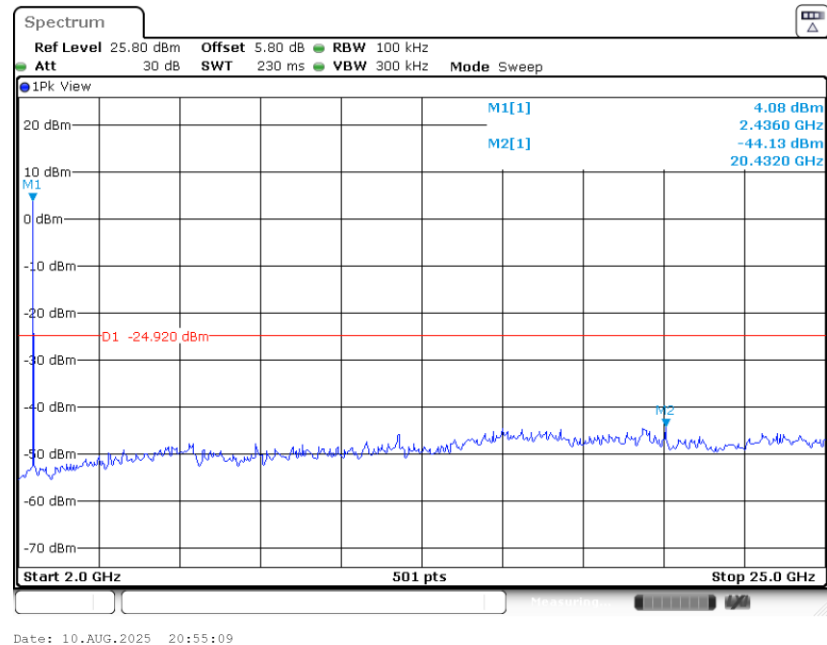




Conducted Spurious Emission Plot on Bluetooth LE 500Kbps GFSK Channel 19

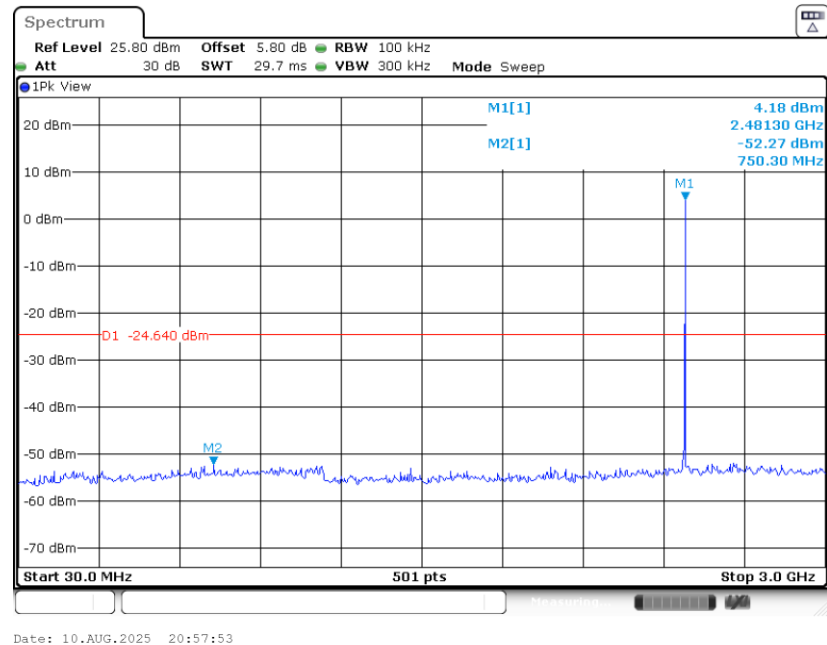


Conducted Spurious Emission Plot on Bluetooth LE 500Kbps GFSK Channel 19

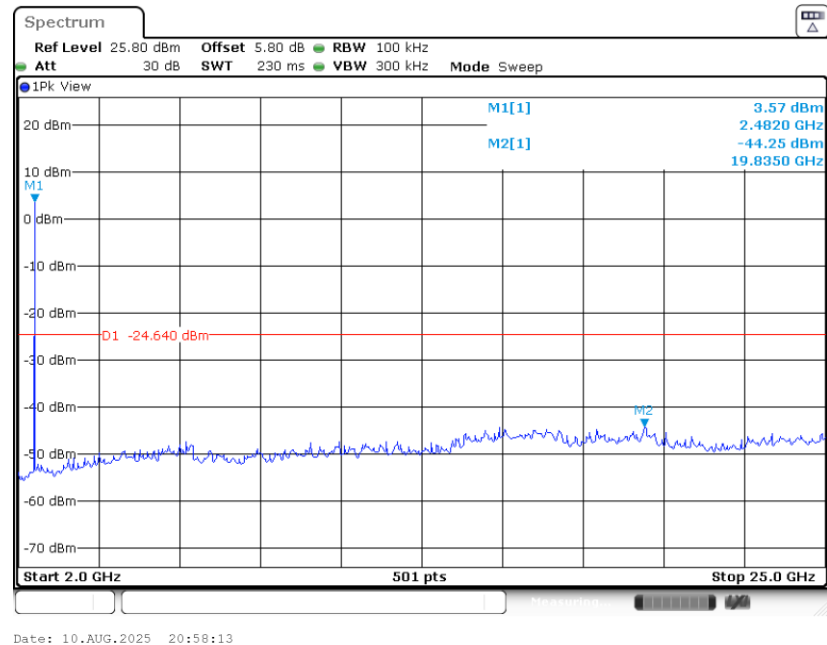




Conducted Spurious Emission Plot on Bluetooth LE 500Kbps GFSK Channel 39



Conducted Spurious Emission Plot on Bluetooth LE 500Kbps GFSK Channel 39



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 output power of this device was measured by spectrum analyzer, the attenuation under this paragraph 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

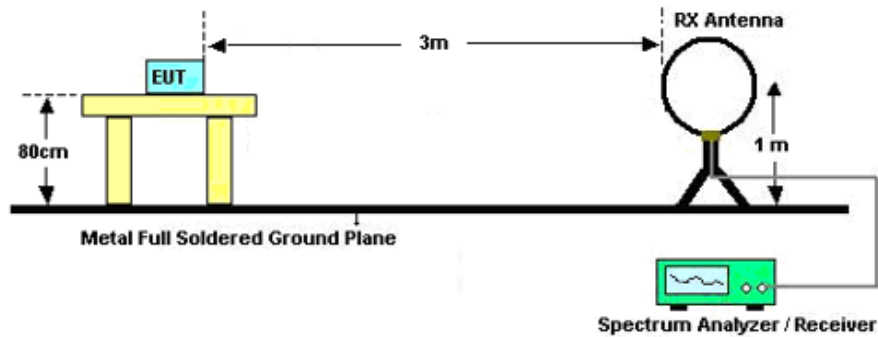
The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.5.3 Test Procedures

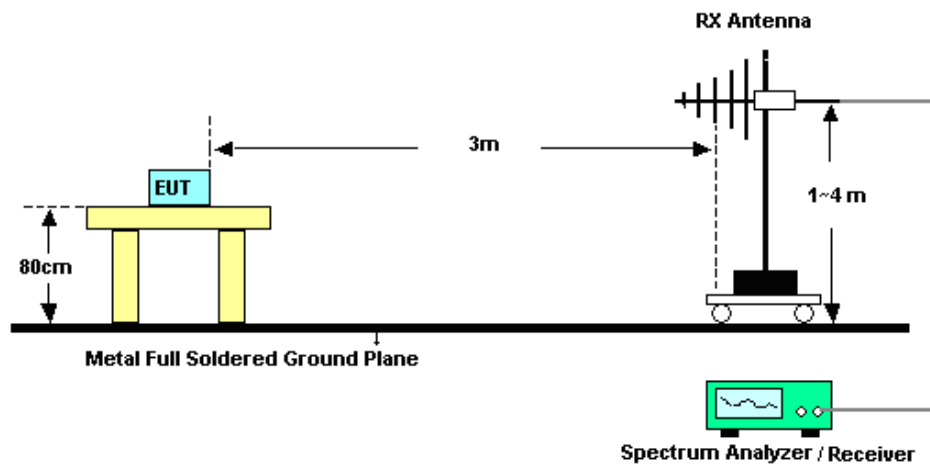
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5, 6.6, 11.11 and 11.12.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
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= 3MHz 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

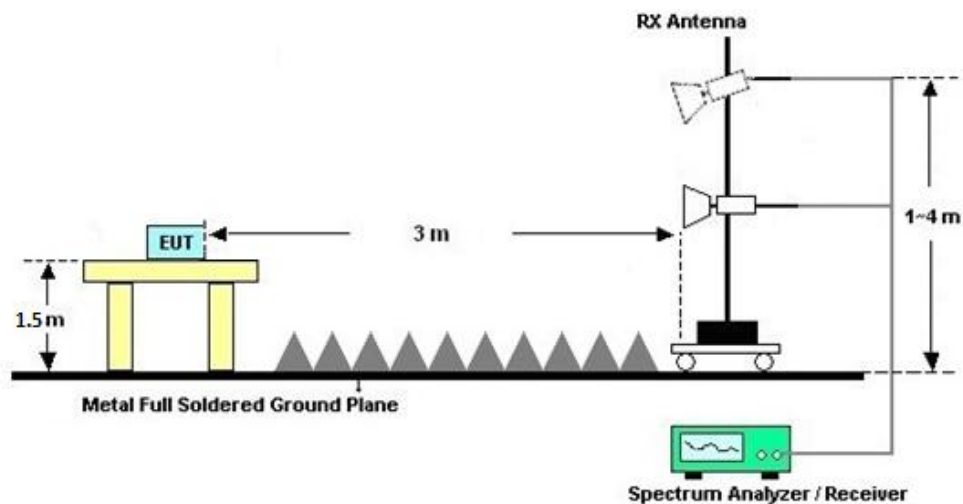
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came 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 (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

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.

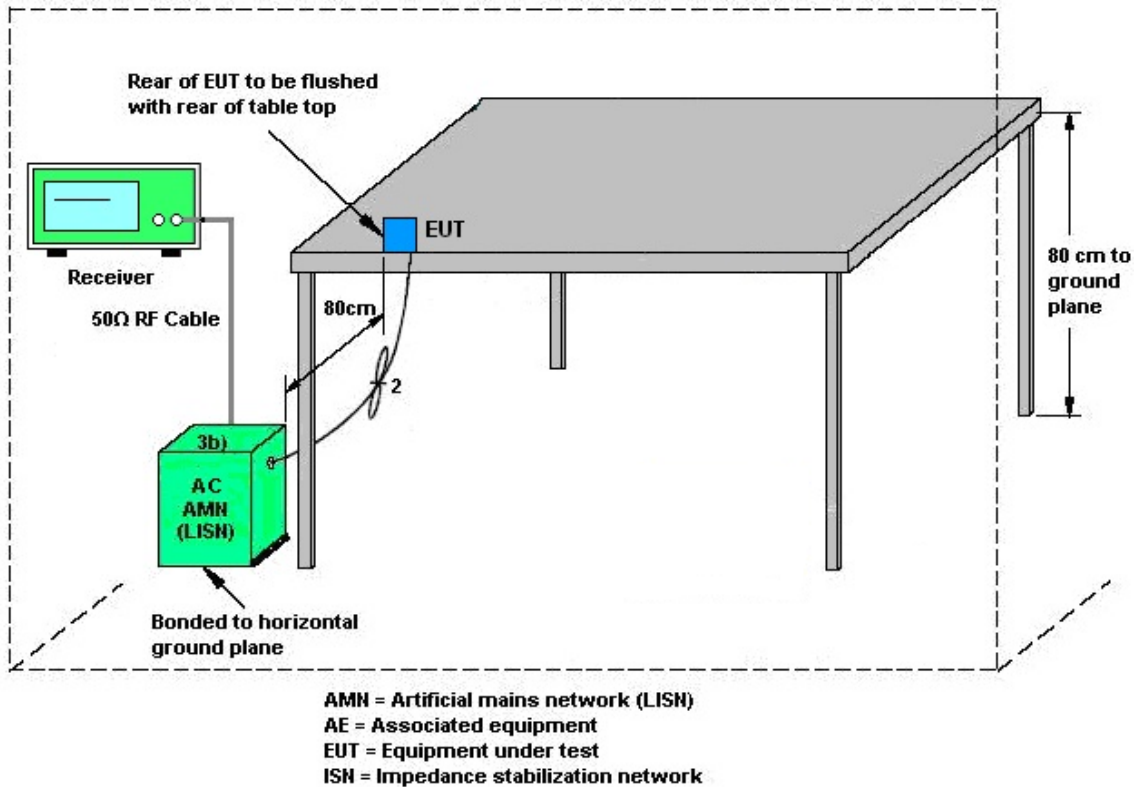
3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) 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

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Aug. 10, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Aug. 10, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Aug. 10, 2025	Jan. 01, 2026	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 04, 2024	Jun. 21, 2025	Jul. 03, 2025	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz~44G,MAX 30dB	Oct. 10, 2024	Jun. 21, 2025	Oct. 09, 2025	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jun. 21, 2025	Sep. 07, 2025	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Mar. 24, 2025	Jun. 21, 2025	Mar. 23, 2026	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251982	1GHz~18GHz	Aug. 16, 2024	Jun. 21, 2025	Aug. 15, 2025	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jun. 21, 2025	Oct. 21, 2025	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 03, 2024	Jun. 21, 2025	Jul. 02, 2025	Radiation (03CH05-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 02, 2025	Jun. 21, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
high gain Amplifier	EM	EM01G18GA	060843	1Ghz~18Ghz	Jan. 02, 2025	Jun. 21, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
Amplifier	EM	EM01G18GA	060833	1Ghz~18Ghz	Jan. 02, 2025	Jun. 21, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 21, 2025	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 21, 2025	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 21, 2025	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCi7	100768	9kHz~7GHz;	Apr 16, 2025	Aug. 05, 2025	Apr 15, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Aug. 05, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2024	Aug. 05, 2025	Dec. 23, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Aug. 05, 2025	Oct. 08, 2025	Conduction (CO01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.00 dB
Occupied Channel Bandwidth	±0.384%
Conducted Power	±0.90 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.38 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
---	---------

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.18 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.88 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.36 dB
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----- THE END -----



Appendix A. Conducted Test Results

Bluetooth Low Energy

Test Engineer:	Jacob Zhang	Temperature:	20~26	°C
Test Date:	2025/8/10	Relative Humidity:	40~51	%

BLE1M-Ant1

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	1.04	0.67	0.50	Pass
BLE	1Mbps	1	19	2440	1.04	0.67	0.50	Pass
BLE	1Mbps	1	39	2480	1.04	0.67	0.50	Pass

TEST RESULTS DATA

Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	4.91	30.00	3.00	7.91	36.00	Pass
BLE	1Mbps	1	19	2440	6.11	30.00	3.00	9.11	36.00	Pass
BLE	1Mbps	1	39	2480	6.43	30.00	3.00	9.43	36.00	Pass

TEST RESULTS DATA

Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	0.00	4.56
BLE	1Mbps	1	19	2440	0.00	5.33
BLE	1Mbps	1	39	2480	0.00	5.47

TEST RESULTS DATA

Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Avg PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	3.24	-16.94	3.00	8.00	Pass
BLE	1Mbps	1	19	2440	4.91	-14.31	3.00	8.00	Pass
BLE	1Mbps	1	39	2480	5.18	-13.70	3.00	8.00	Pass

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

Bluetooth Low Energy**BLE2M-Ant1****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	1000	2.07	1.14	0.50	Pass
BLE	2Mbps	1	19	2440	2.07	1.14	0.50	Pass
BLE	2Mbps	1	39	2480	2.07	1.14	0.50	Pass

TEST RESULTS DATA**Peak Power Table**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	5.44	30.00	3.00	8.44	36.00	Pass
BLE	2Mbps	1	19	2440	6.32	30.00	3.00	9.32	36.00	Pass
BLE	2Mbps	1	39	2480	6.56	30.00	3.00	9.56	36.00	Pass

TEST RESULTS DATA**Average Power Table**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	2Mbps	1	0	2402	0.00	4.15
BLE	2Mbps	1	19	2440	0.00	4.91
BLE	2Mbps	1	39	2480	0.00	5.35

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	3.73	-18.52	3.00	8.00	Pass
BLE	2Mbps	1	19	2440	4.58	-16.56	3.00	8.00	Pass
BLE	2Mbps	1	39	2480	4.88	-16.17	3.00	8.00	Pass

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

Bluetooth Low Energy**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	125Kbps	1	0	2402	1.06	0.66	0.50	Pass
BLE	125Kbps	1	19	2440	1.06	0.66	0.50	Pass
BLE	125Kbps	1	39	2480	1.06	0.66	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	125Kbps	1	0	2402	4.85	30.00	3.00	7.85	36.00	Pass
BLE	125Kbps	1	19	2440	6.10	30.00	3.00	9.10	36.00	Pass
BLE	125Kbps	1	39	2480	6.32	30.00	3.00	9.32	36.00	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	125Kbps	1	0	2402	0.00	4.48
BLE	125Kbps	1	19	2440	0.00	5.16
BLE	125Kbps	1	39	2480	0.00	5.42

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	125Kbps	1	0	2402	1.57	-2.19	3.00	8.00	Pass
BLE	125Kbps	1	19	2440	2.48	-1.33	3.00	8.00	Pass
BLE	125Kbps	1	39	2480	2.64	-1.12	3.00	8.00	Pass

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

Bluetooth Low Energy**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	500Kbps	1	0	1000	1.03	0.66	0.50	Pass
BLE	500Kbps	1	19	2440	1.03	0.66	0.50	Pass
BLE	500Kbps	1	39	2480	1.02	0.66	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	500Kbps	1	0	2402	5.27	30.00	3.00	8.27	36.00	Pass
BLE	500Kbps	1	19	2440	6.09	30.00	3.00	9.09	36.00	Pass
BLE	500Kbps	1	39	2480	6.34	30.00	3.00	9.34	36.00	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	500Kbps	1	0	2402	0.00	4.51
BLE	500Kbps	1	19	2440	0.00	5.18
BLE	500Kbps	1	39	2480	0.00	5.40

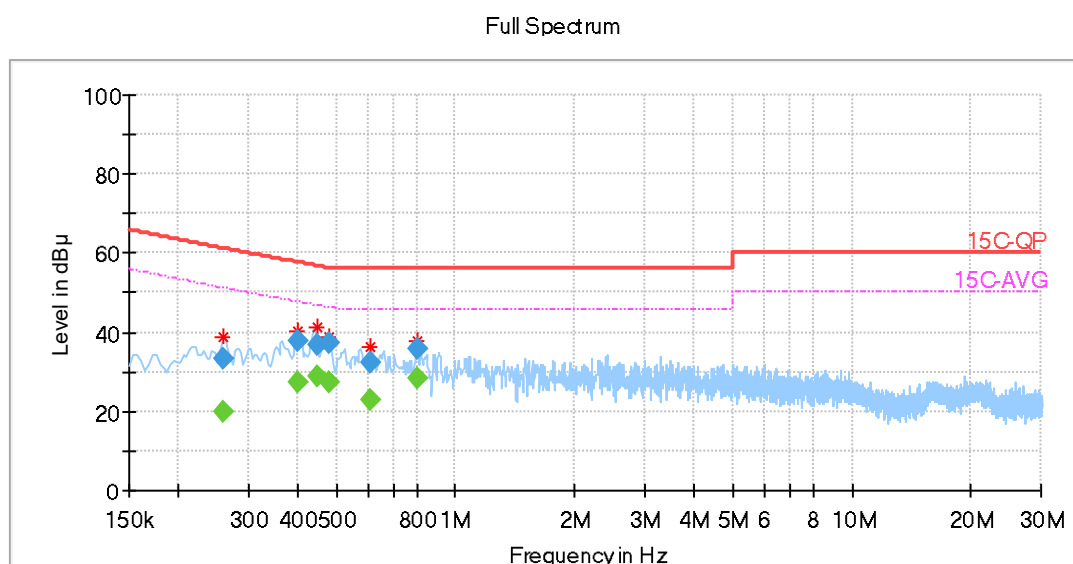
TEST RESULTS DATA
Peak Power Density

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	500Kbps	1	0	2402	4.12	-14.97	3.00	8.00	Pass
BLE	500Kbps	1	19	2440	5.08	-13.22	3.00	8.00	Pass
BLE	500Kbps	1	39	2480	5.36	-9.90	3.00	8.00	Pass

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

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



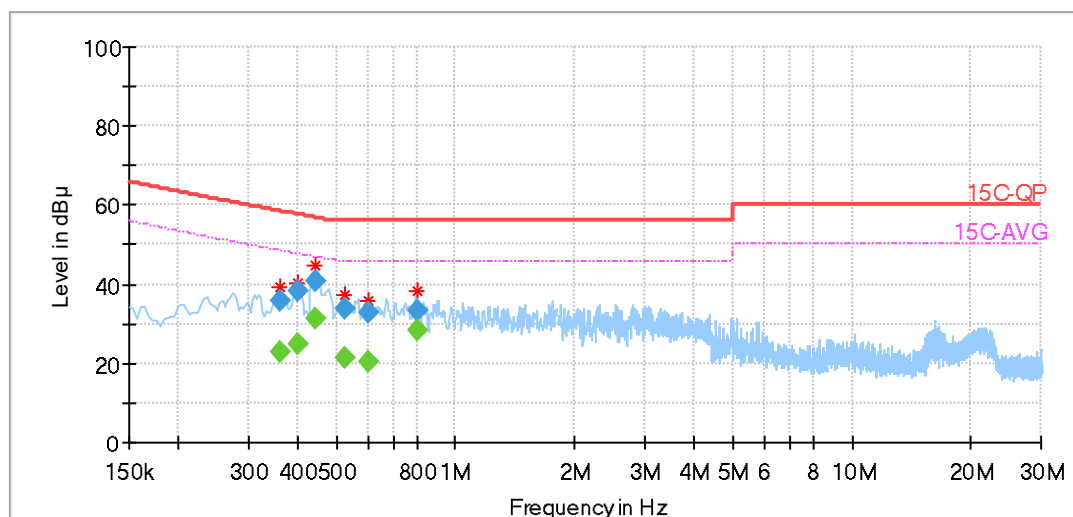
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.259688	---	19.80	51.20	31.40	L1	OFF	10.4
0.259688	33.53	---	61.24	27.71	L1	OFF	10.4
0.401475	---	27.19	47.68	20.49	L1	OFF	10.3
0.401475	37.65	---	57.70	20.05	L1	OFF	10.3
0.447788	---	28.92	46.84	17.92	L1	OFF	10.3
0.447788	36.60	---	56.85	20.25	L1	OFF	10.3
0.480600	---	27.40	46.30	18.90	L1	OFF	10.3
0.480600	37.09	---	56.30	19.21	L1	OFF	10.3
0.608175	---	22.94	46.00	23.06	L1	OFF	10.3
0.608175	32.27	---	56.00	23.73	L1	OFF	10.3
0.801488	---	28.60	46.00	17.40	L1	OFF	10.3
0.801488	35.89	---	56.00	20.11	L1	OFF	10.3



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.361200	---	22.85	48.51	25.66	N	OFF	10.4
0.361200	35.69	---	58.54	22.85	N	OFF	10.4
0.400762	---	24.89	47.69	22.80	N	OFF	10.3
0.400762	38.35	---	57.72	19.37	N	OFF	10.3
0.441037	---	31.12	46.95	15.83	N	OFF	10.3
0.441037	40.56	---	56.97	16.41	N	OFF	10.3
0.523125	---	21.35	46.00	24.65	N	OFF	10.3
0.523125	33.93	---	56.00	22.07	N	OFF	10.3
0.600712	---	20.36	46.00	25.64	N	OFF	10.3
0.600712	32.68	---	56.00	23.32	N	OFF	10.3
0.801488	---	28.14	46.00	17.86	N	OFF	10.3
0.801488	33.35	---	56.00	22.65	N	OFF	10.3



Appendix C Radiated Spurious Emission Test Data

Test Engineer :	Jerry Xu	Relative Humidity :	41~42%
		Temperature :	22~23°C

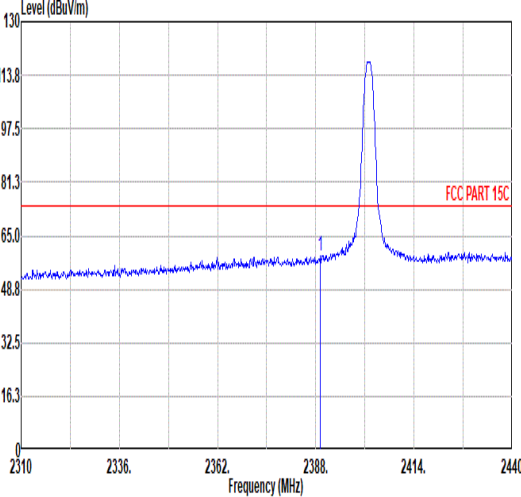
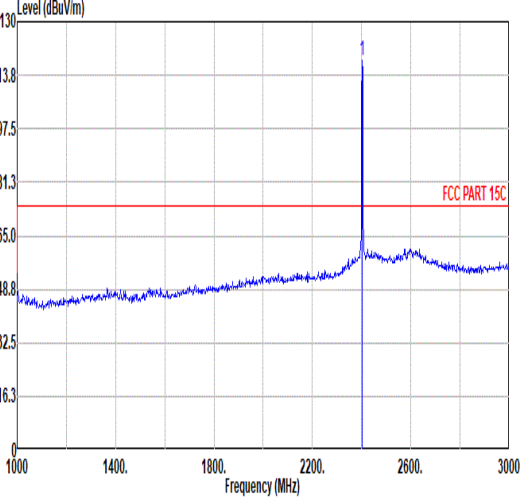
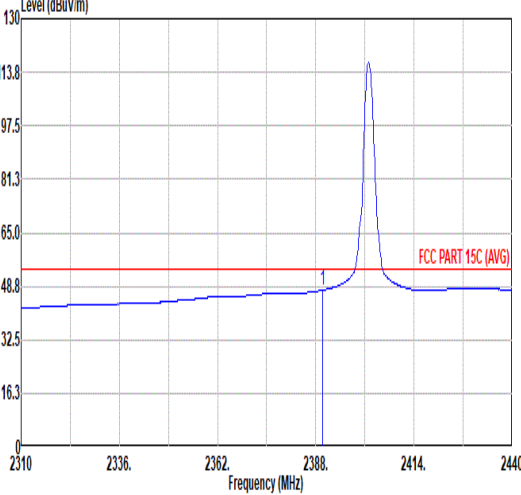
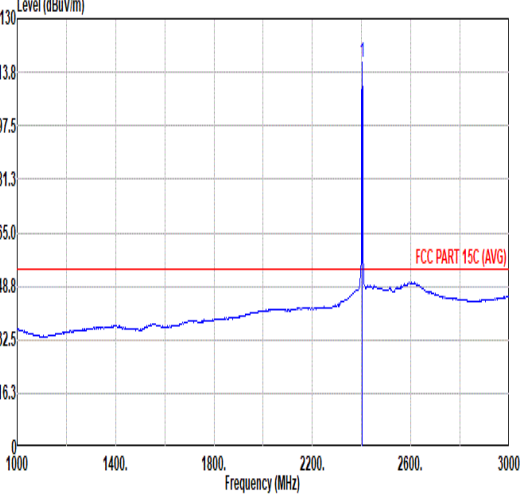
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Bluetooth-LE_GSKF	0	2402	1Mbps	-	-
Mode 2	2400-2483.5	1	Bluetooth-LE_GSKF	19	2440	1Mbps	-	-
Mode 3	2400-2483.5	1	Bluetooth-LE_GSKF	39	2480	1Mbps	-	-
Mode 4	2400-2483.5	1	Bluetooth-LE_GSKF	0	2402	2Mbps	-	-
Mode 5	2400-2483.5	1	Bluetooth-LE_GSKF	19	2440	2Mbps	-	-
Mode 6	2400-2483.5	1	Bluetooth-LE_GSKF	39	2480	2Mbps	-	-

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth-LE_GSKF	0	2389.82	47.63	54.00	-6.37	H	AVERAGE	Pass	Band Edge
1	Bluetooth-LE_GSKF	0	4804.00	44.71	54.00	-9.29	V	AVERAGE	Pass	Harmonic
2	Bluetooth-LE_GSKF	19	-	-	-	-	-	-	-	Band Edge
2	Bluetooth-LE_GSKF	19	7320.00	48.19	54.00	-5.81	V	AVERAGE	Pass	Harmonic
3	Bluetooth-LE_GSKF	39	2483.50	49.46	54.00	-4.54	H	AVERAGE	Pass	Band Edge
3	Bluetooth-LE_GSKF	39	4960.00	45.69	74.00	-28.31	V	PEAK	Pass	Harmonic
4	Bluetooth-LE_GSKF	0	2389.95	47.98	54.00	-6.02	H	AVERAGE	Pass	Band Edge
4	Bluetooth-LE_GSKF	0	4804.00	45.86	74.00	-28.14	H	PEAK	Pass	Harmonic
5	Bluetooth-LE_GSKF	19	-	-	-	-	-	-	-	Band Edge
5	Bluetooth-LE_GSKF	19	7320.00	50.84	54.00	-3.16	V	AVERAGE	Pass	Harmonic
6	Bluetooth-LE_GSKF	39	2483.50	48.90	54.00	-5.10	H	AVERAGE	Pass	Band Edge
6	Bluetooth-LE_GSKF	39	4960.00	42.88	74.00	-31.12	V	PEAK	Pass	Harmonic



Mode	1																																																																																																		
	Band Edge																																																																																																		
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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																									
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																									
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																									
1	2389.82	47.63	54.00	-6.37	39.27	32.24	7.11	36.99	6.00	102 340 AVERAGE																																																																																									
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																										
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																									
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																									
1	2402.00	116.54	-----	-----	108.09	32.32	7.12	36.99	6.00	102 340 AVERAGE																																																																																									