

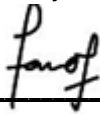
 MOTOROLA SOLUTIONS	 CERTIFICATE 2518.08   SAMM 825																																				
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn. Bhd. Plot 2A Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia.	FCC / ISED TEST REPORT Report Revision : Rev.A																																				
<table><tr><td>Date/s Tested</td><td>: 06-May-2026 - 21-May-2026</td></tr><tr><td>Report Issue Date</td><td>: 18-June-2026</td></tr><tr><td>Test Location</td><td>: MOTOROLA PENANG ADV. COMM. LABORATORY</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D. 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: CHUAH YIH JIAN</td></tr><tr><td>Product Type</td><td>: Mobile / Vehicle Mount</td></tr><tr><td>Product Marketing Name (PMN)</td><td>: MR7r</td></tr><tr><td>Hardware Version Identification Number (HVIN)</td><td>: AAM29QNN9YA1AN</td></tr><tr><td>Frequency Band</td><td>: 2.402 - 2.480 GHz</td></tr><tr><td>Max RF Output Power</td><td>: 11.22mWatts</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D. 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>CAB ID</td><td>: MY0001</td></tr><tr><td>Firmware Version Identification Number (FVIN)</td><td>: D02.26.02.0175</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(2.4GHz BT LE)</td><td>PASS</td></tr><tr><td>47 CFR Part 15C</td><td></td></tr><tr><td>ISED RSS 247 Issue 4</td><td></td></tr></table>		Date/s Tested	: 06-May-2026 - 21-May-2026	Report Issue Date	: 18-June-2026	Test Location	: MOTOROLA PENANG ADV. COMM. LABORATORY	Manufacturer/Location	: Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D. 11900 Bayan Lepas, Penang, Malaysia	Requestor	: CHUAH YIH JIAN	Product Type	: Mobile / Vehicle Mount	Product Marketing Name (PMN)	: MR7r	Hardware Version Identification Number (HVIN)	: AAM29QNN9YA1AN	Frequency Band	: 2.402 - 2.480 GHz	Max RF Output Power	: 11.22mWatts	Applicant Name	: Motorola Solutions Inc	Applicant Address	: Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D. 11900 Bayan Lepas, Penang, Malaysia	FCC Registrations	: 461337	CAB ID	: MY0001	Firmware Version Identification Number (FVIN)	: D02.26.02.0175	(2.4GHz BT LE)	PASS	47 CFR Part 15C		ISED RSS 247 Issue 4	
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Prepared By:  SITI NURHIDAYATI BINTI ABDUL HALIM Test Personnel	Approved Signatory:  VINCENT FOONG CHUEN KIT Responsible Engineer																																				

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REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial Report	18- June-2026	Hidayati

1.0 General Information

EUT Description:

Technologies	2.4GHz BT LE
TX Frequency range	2402MHz – 2480MHz
Modulation Type	GFSK
Connector type	PROGRAMMING, TEST & ALIGNMENT CABLE
Antenna type	PIFA
Temporary RF Connector	0.56dB

Note: The description and information regarding the EUT are provided by the customer. The laboratory shall not be held responsible for any inaccuracies or misinformation in the provided details that may result in incorrect test outcomes.

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
ANTENNA COMBO GNSS (GPS/GALILEO/QZSS/GLONASS), UHF 406-420 MHz, 3.5 DB GN MINI-U	MOTOROLA	PMAE4032B
MOBILE ANTENNA GNSS L1 & L5 MAGNET MOUNT	MOTOROLA	PMAN4013A
GENESEE COLOR DISPLAY CONTROL HEAD	MOTOROLA	PMLN8805A
LTD DESKTOP MOBILE MIC	MOTOROLA	RMN5050A
DESKTOP TRAY WITH SPEAKER	MOTOROLA	RSN4005A
POWER SUPPLY ADAPTOR, EXT 280W POWER SUPPLY, 100-240VAC, SAE	MOTOROLA	PS000280A02
POWER CORD, US	MOTOROLA	3087791G01
MOTOTRBO REAR ACCESSORY CONNECTOR KIT	MOTOROLA	PMLN5072A

Channel number and frequency information:

40 channels are provided to this EUT:

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

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

FCC 47 CFR Part 15 Subpart C

KDB 558074 D01 15.247 Meas Guidance v05

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024

Deviation from standard

Not applicable as no deviation from standard test method

Modifications to EUT

For RF conducted measurements a pigtail was soldered out of the board while for radiated measurements there were no modifications to the device

2.0 Summary of Test Results

FCC Clause	ISED Clause	Test Item	Result	Remark	Serial number tested	Tested by
15.247 (a)(2)	RSS 247 5.2 (a)	DTS & 99% Channel Bandwidth	Pass	Highest 99% OCB: BT 4.0 - 1.05MHz (1M05F1D) BT 5.0 - 2.07MHz (2M07F1D)	008TCH0246	Hidayati
15.247 (b)(3)	RSS 247 5.4 (d)	Conducted RF Output Power (Peak)	Pass	Highest output power: BT 4.0 - 9.507dBm (8.93mW) BT 5.0 - 9.555dBm (9.03mW)	008TCH0246	Hidayati
15.247(e)	RSS 247 5.2 (b)	Maximum Peak Power Spectral Density	Pass	Meet the limit requirement.	008TCH0246	Hidayati
15.247 (d)	RSS-247 5.5	Band-Edge Conducted Spurious Emission	Pass	Worst case emission: -49.64dBm	008TCH0246	Hidayati
15.247 (b)	RSS-247 5.5	Conducted Spurious Emission	Pass	Worst case emission: -41.85dBm	008TCH0246	Hidayati
15.205, 15.209, 15.247 (d)	RSS247 5.5	Radiated Emission within Restricted Bands	Pass	Worst case emission: RBE: 47.70dBuV/m (Margin: 6.30dB) RSE: 31.52dBuV/m (Margin: 8.48dB)	008TCH0251	Nazrin, Rezza & Fuad
15.207	RSS-Gen 8.8	AC Power Line Conducted Spurious Emission	Pass	Meet the limit requirement.	008TCH0251	Helmy
15.203	-	Antenna Requirement	NA	Internal antenna is not accessible to the end-user	NA	NA

3.0. Measurement Uncertainty

The measurement uncertainties below were calculated using approach describe in ETSI TR 100 028, ETSI TR 100 028-2 (using a coverage factor of $k = 1.96$) & CISPR 16-4-2 (using a coverage factor of $k=2$), which gives a level of confidence of approximately 95%.

According to CISPR 16-4-2, the levels were found to be below levels of U_{CISPR} and therefore no adjustment of the data for measurement uncertainty is required.

ETSI TR 100 028 & ETSI TR 100 028-2:

MEASUREMENT TYPE	FREQUENCY RANGE	EXPANDED UNCERTAINTY
Conducted Spurious Output Power	9kHz-12750MHz	± 2.82 dB

CISPR 16-4-2:

MEASUREMENT TYPE	FREQUENCY RANGE	EXPANDED UNCERTAINTY
AC Power-line Conducted Emissions	150kHz-30MHz	± 3.44 dB
Radiated Emissions	30MHz-1000MHz	± 6.00 dB
Radiated Emissions	1000MHz-18000MHz	± 5.14 dB
Radiated Emissions	18000MHz-40000MHz	± 5.36 dB

Final Reported Test Results

The final reported test results are calculated using the following equation:

Reported RF Measurement Results = Measured Measurement Results + Correction Factor

Where:

- Measured Measurement Results is the measured test results
- Correction Factor is the cumulative loss of all cables used during measurement, including temporary RF connector and antenna gain.

4.0 Equipment List

Bluetooth ATE # 1 (SW Version: Ate Main_v3.2.2)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
CHAMBER	SH-641	92003820	09-Jul-25	09-Jul-26
POWER SUPPLY	6652A	MY40001438	27-Aug-25	27-Aug-26
SPECTRUM ANALYZER	E4440A	MY46185415	15-Jan-25	15-Jul-26

Radiated Emission Station (SW Version: EMC FCC IC RE v1.8.2)

Description	Model #	Serial Number	Calibration Date	Calibration Due Date
DRG HORN FREQ.	SAS-571	719	31-Oct-25	31-Oct-26
DRG HORN FREQ.	SAS-571	1027	21-Jul-25	21-Jul-26
DC Power Supply	6031A	3313A02730	06-Oct-25	06-Oct-26
SIGNAL GENERATOR	SMB 100A	180683	20-Dec-24	20-Dec-27
EMI TEST RECEIVER	ESW44	101731	11-Aug-25	10-Aug-26
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	Not Required	Not Required
BILOG ANTENNA	CBL 6112D	55546	30-Jun-25	30-Jun-26
BILOG ANTENNA	CBL6112B	2964	06-Nov-25	06-Nov-26
DATA LOGGER THERMOHYGROMETER	SDL500	A.016785	16-Jul-25	16-Jul-26
SYSTEM CONTROLLER	SC104V	050806-1	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	FM2011	FM2011-001	Not Required	Not Required
ANTENNA POSITIONING TOWER	TLT2	090308-5	Not Required	Not Required
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	30-Sep-25	30-Sep-26
PREAMPLIFIER 18-40GHz	JS44-18004000-33-8P	2034566	Not Required	Not Required
PREAMPLIFIER 1-18GHz	EMC0518A45SE	981005	19-Sep-25	18-Sep-26
PREAMPLIFIER	PAM-0118P	361	29-Sep-23	29-Sep-26
LOOP ANTENNA	6502	00208416	06-Nov-25	06-Nov-26

AC Powerline Station (SW Version: EMC32 Ver.10.60.10)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DATA LOGGER	DSB	16344143	16-Jul-25	16-Jul-26
V-NETWORK 2-LINE	ENV216	101268	30-Jun-25	30-Jun-26
EMI TEST RECEIVER	ESCI 3	100225	04-Sep-25	04-Sep-26
PROGRAMMABLE AC SOURCE	61604	ABR000000926	20-Aug-25	20-Aug-26

Note: Performed test site validation in accordance with ANSI C63.4-2014+C63.4a-2017 (30 MHz - 1 GHz) and CISPR 16-1-4 (1 GHz - 18 GHz) annually but no less than once every 3 years.

5.0 Test Mode Applicability and Test Channel Detail

Radiated Emission Test (Above 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Environmental Conditions
Test Mode	0 to 39	0,19,39	GFSK	23.7°C, 68.9%RH

Radiated Emission Test (Below 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Environmental Conditions
Test Mode	0 to 39	0,19,39	GFSK	23.7°C, 68.9%RH

Power Line Conducted Emission Test

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Environmental Conditions
Application Mode	0 to 39	AUTO	AUTO	19.3°C, 56.7%RH

Antenna Port Conducted Measurement:

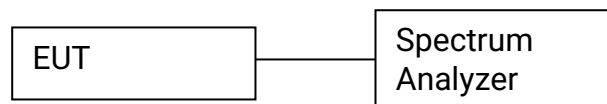
- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Environmental Conditions
Test Mode	0 to 39	0,19,39	GFSK	25°C, 54.8%RH

6.0 Transmitter Test Parameters

6.1 6dB Channel Bandwidth

6.1.1 Test Setup



- 1) Check and ensure the spectrum analyzer well calibrate.
- 2) Turn on the DUT and set DUT to transmit maximum power.
- 3) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- 4) Setting of Spectrum analyzer:
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max hold
 - e. Sweep = auto
- 5) Measure the freq differer of two frequencies that were attenuated 6dB from peak of the emission & record the frequency difference as the emission bandwidth.

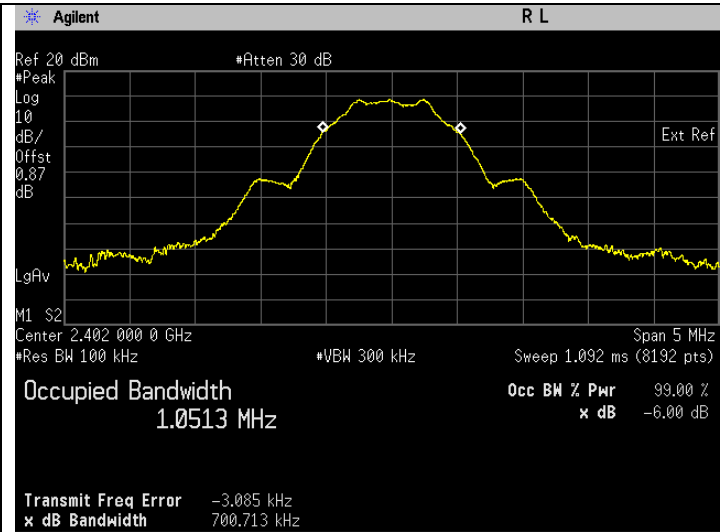
6.1.2 Test Limits:

Normal Condition (25 ° C)
≥500 kHz

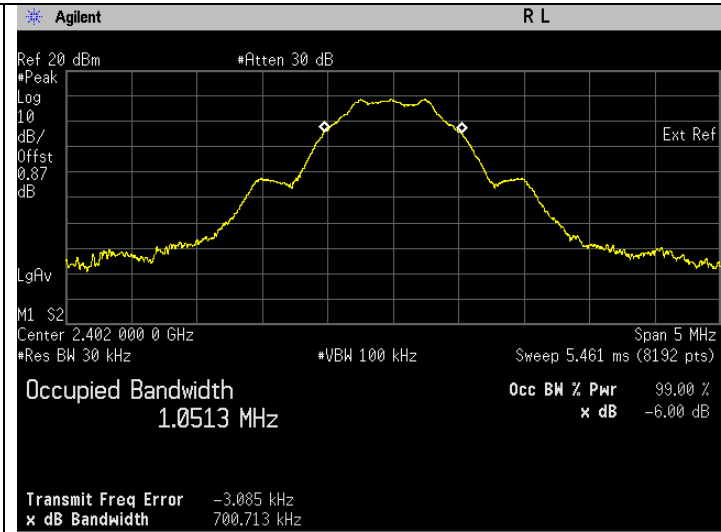
6.1.3 Test Data:

BTLE 1M

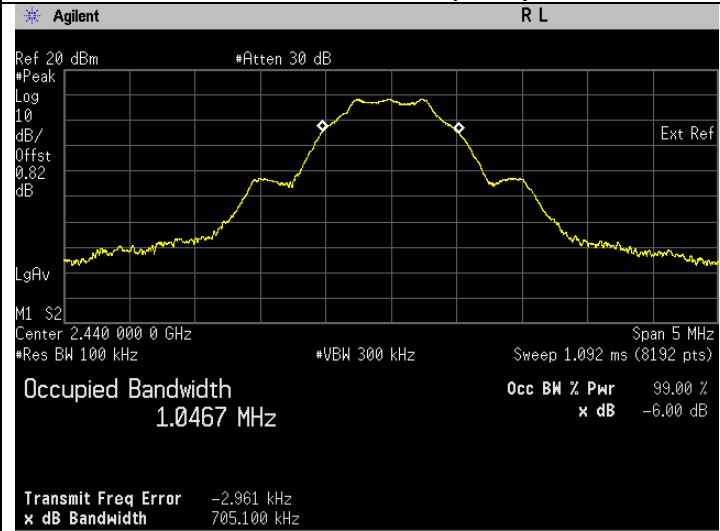
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Status
Bluetooth LE	1	2402	0.70	1.05	Pass
Bluetooth LE	1	2440	0.71	1.05	Pass
Bluetooth LE	1	2480	0.72	1.05	Pass



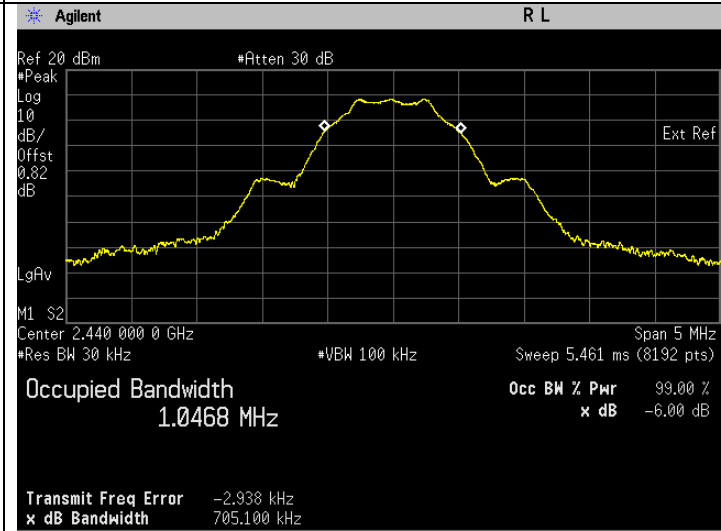
6dB Bandwidth. Bluetooth LE Frequency 2402 MHz



99% Bandwidth. Bluetooth LE Frequency 2402 MHz.



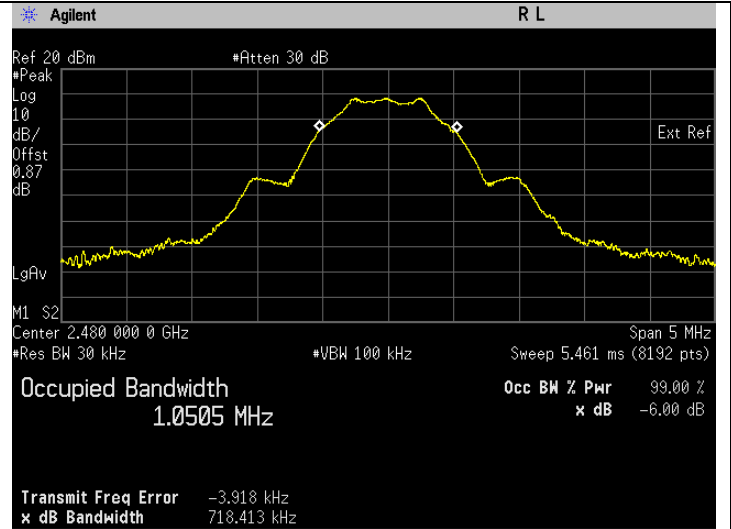
6dB Bandwidth. Bluetooth LE Frequency 2440 MHz



99% Bandwidth. Bluetooth LE Frequency 2440 MHz.



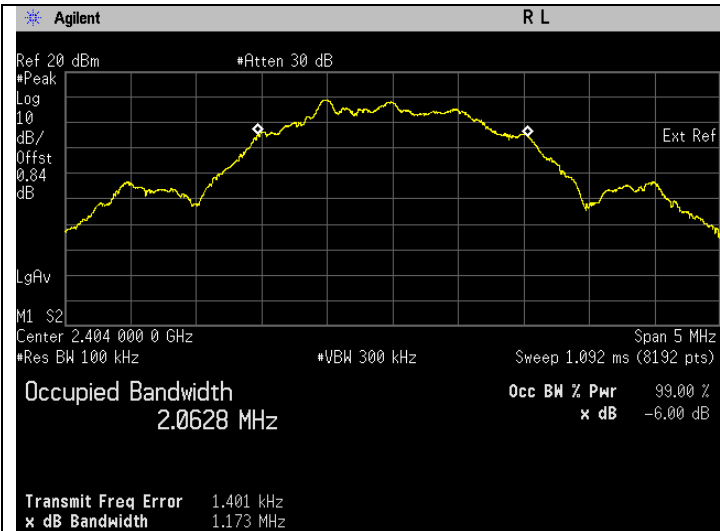
6dB Bandwidth. Bluetooth LE Frequency 2480 MHz



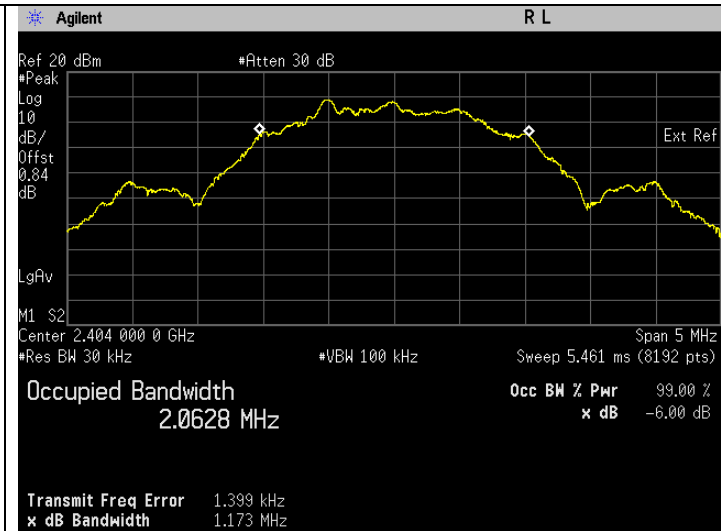
99% Bandwidth. Bluetooth LE Frequency 2480 MHz.

BTLE 2M

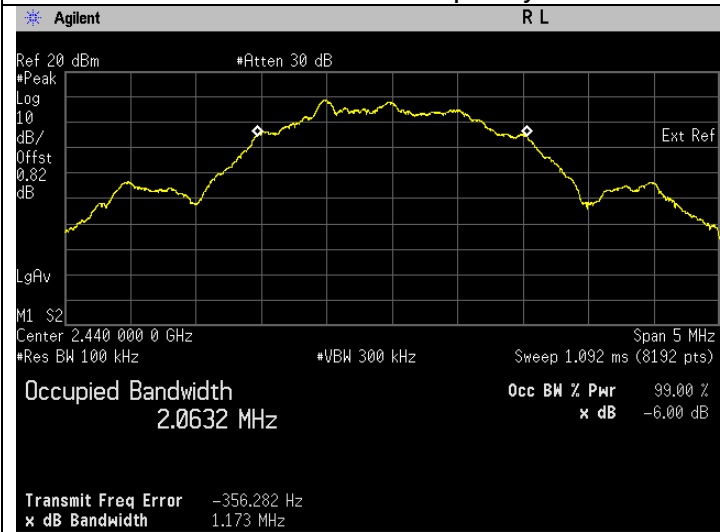
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Status
Bluetooth LE	2	2404	1.17	2.06	Pass
Bluetooth LE	2	2440	1.17	2.06	Pass
Bluetooth LE	2	2478	1.17	2.07	Pass



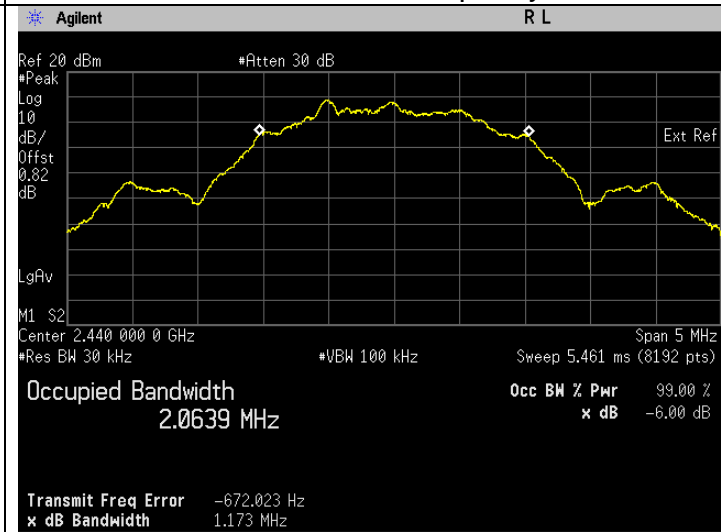
6dB Bandwidth. Bluetooth LE Frequency 2402 MHz



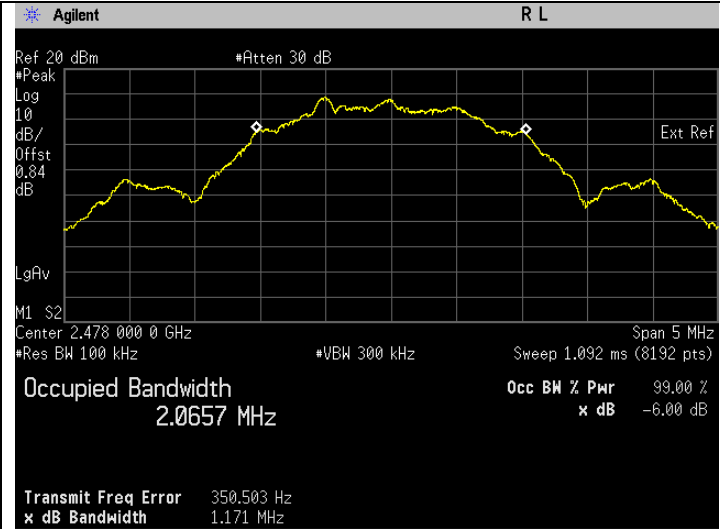
99% Bandwidth. Bluetooth LE Frequency 2404 MHz.



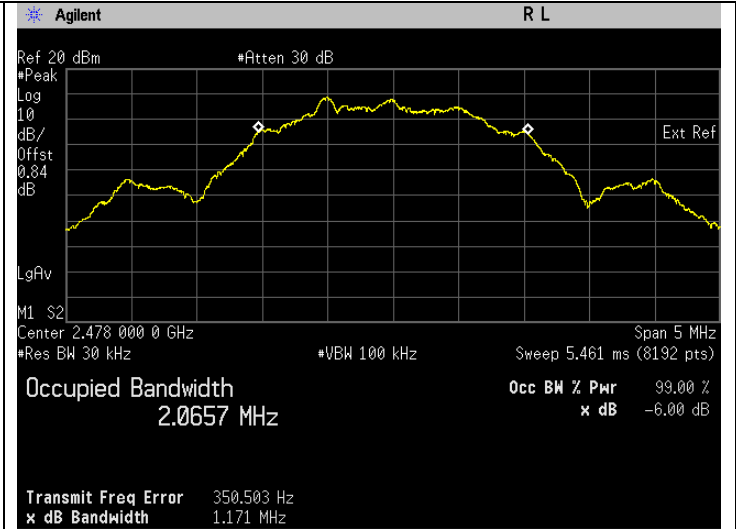
6dB Bandwidth. Bluetooth LE Frequency 2440 MHz



99% Bandwidth. Bluetooth LE Frequency 2440 MHz.



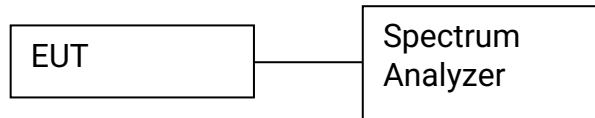
6dB Bandwidth. Bluetooth LE Frequency 2478 MHz



99% Bandwidth. Bluetooth LE Frequency 2478 MHz.

6.2 Conducted RF Output Power

6.2.1 Test Setup



Peak

- 1) Check and ensure the spectrum analyzer well calibrate.
- 2) Turn on the DUT and set DUT to transmit maximum power.
- 3) Measure the duty cycle of transmitter output signal.
- 4) Setting of Spectrum analyzer:
 - a. Set the RBW = 3 MHz.
 - b. Set the VBW = 50 MHz.
 - c. Set the span $\geq [1.5 \times \text{OBW bandwidth}]$.
 - d. Detector = Peak
 - e. Sweep time = auto couple.
 - f. Trace mode = max hold.
 - g. Allow trace to fully stabilize.

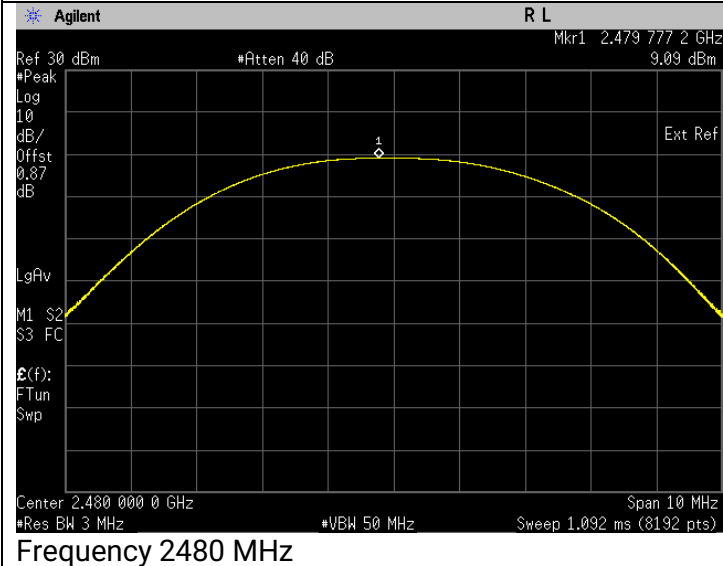
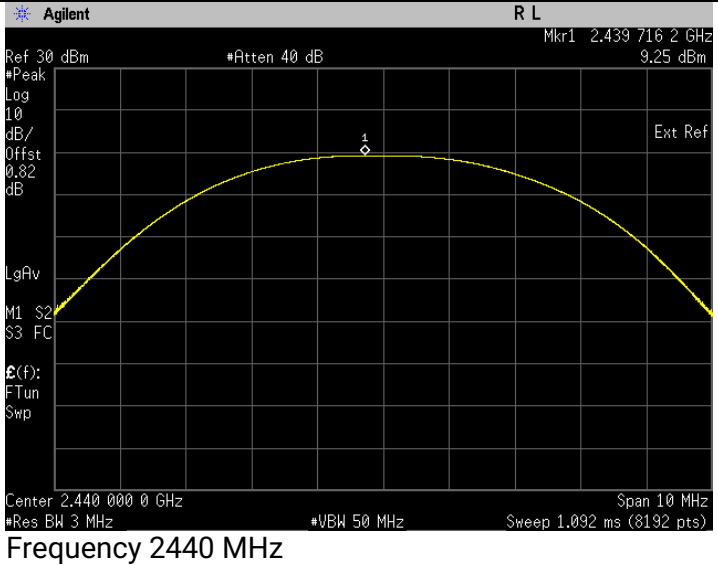
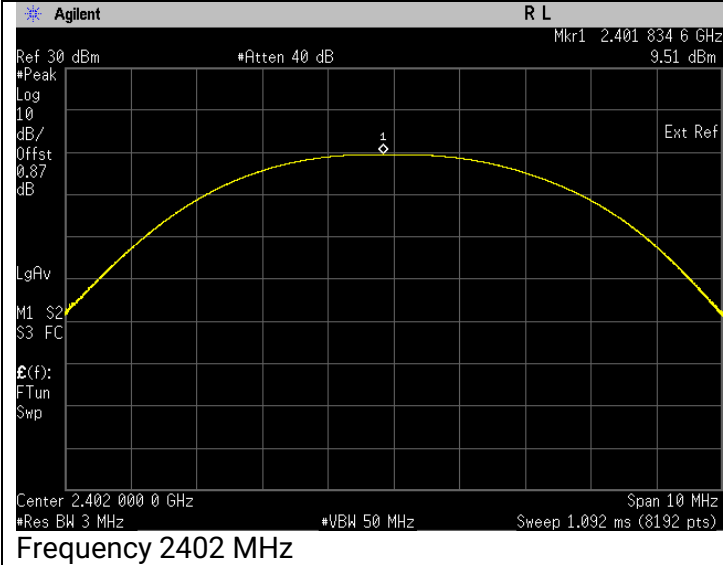
6.2.2 Test Limits:

Normal Condition (25 ° C)
$\leq 1 \text{ Watt}(30 \text{ dBm})$

6.2.3 Test Data:

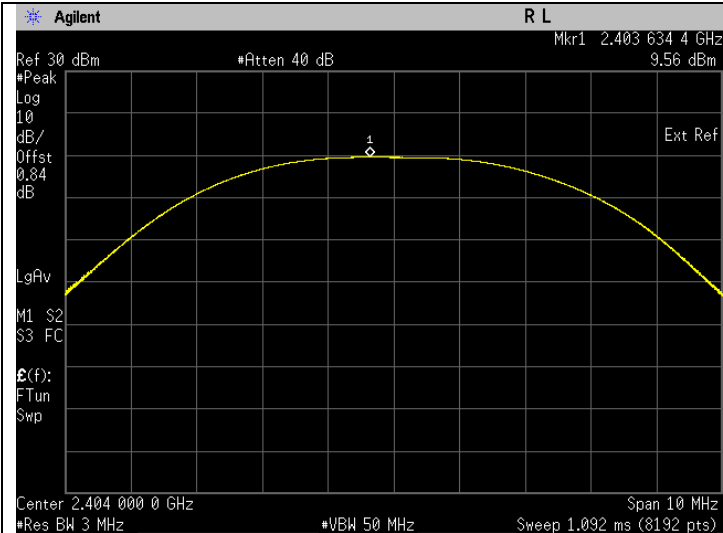
BTLE 1M

Test Conditions		Test Frequency	Results	
Standard	Data Rate	Tx (MHz)	Output Power (dBm)	Status
Bluetooth LE	1	2402	9.507	Pass
Bluetooth LE	1	2440	9.246	Pass
Bluetooth LE	1	2480	9.093	Pass

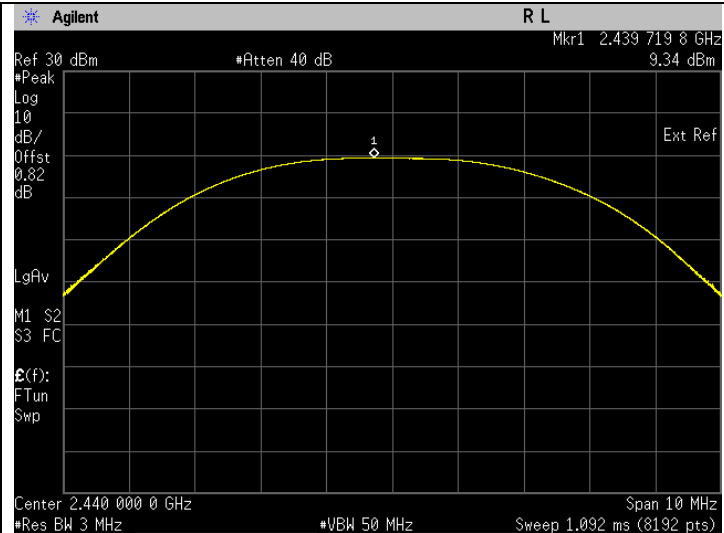


BTLE 2M

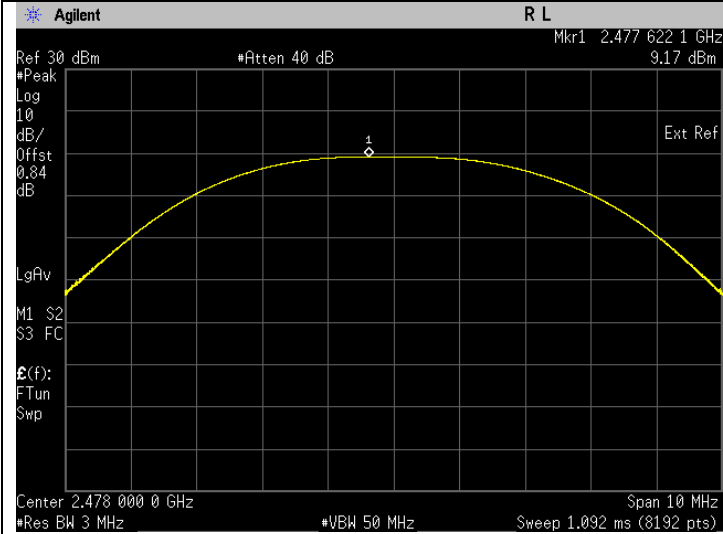
Test Conditions		Test Frequency	Results	
Standard	Data Rate	Tx (MHz)	Output Power (dBm)	Status
Bluetooth LE	2	2404	9.555	Pass
Bluetooth LE	2	2440	9.343	Pass
Bluetooth LE	2	2478	9.167	Pass



Frequency 2404 MHz



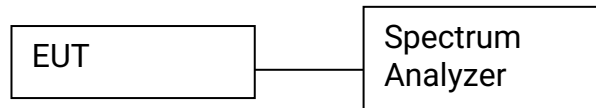
Frequency 2440 MHz



Frequency 2478 MHz

6.3 Maximum Peak Power Spectral Density

6.3.1 Test Setup



Maximum Peak

- 1) Check and ensure the spectrum analyzer well calibrate.
- 2) Turn on the DUT and set DUT to transmit maximum power.
- 3) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- 4) Setting of Spectrum analyzer:
 - a. Set analyzer center frequency to DTS channel center frequency.
 - b. Set the span to 1.5 times the DTS bandwidth.
 - c. Set the RBW to 3 kHz.
 - d. Set the VBW $\geq [3 \times \text{RBW}]$.
 - e. Detector = peak.
 - f. Sweep time = auto couple.
 - g. Trace mode = max hold.
 - h. Allow trace to fully stabilize.
 - i. Use the peak marker function to determine the maximum amplitude level within the RBW.
 - j. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

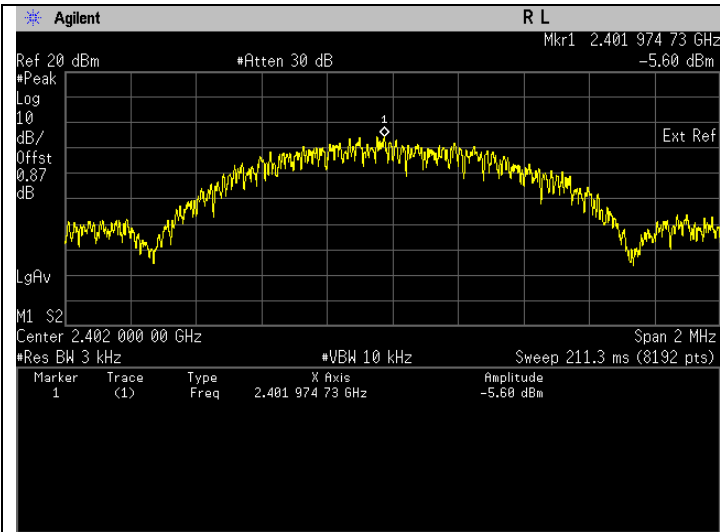
6.3.2 Test Limits:

Normal Condition (25 ° C)
$\leq 8 \text{ dBm/3kHz}$

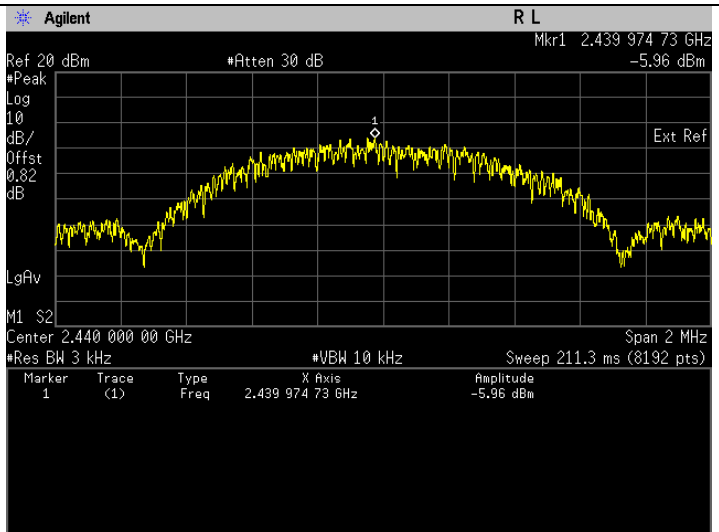
6.3.3 Test Result

BTLE 1M

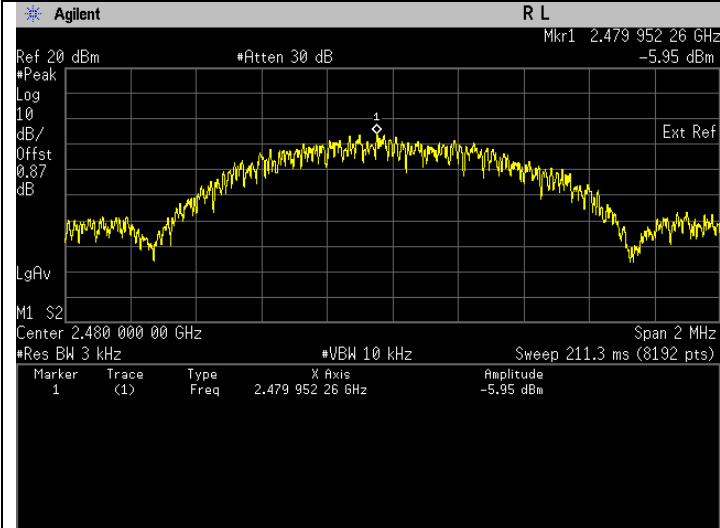
Test Conditions		Test Frequency	Results	
Standard	Data Rate	Tx (MHz)	Power (dBm/3kHz)	Status
Bluetooth LE	1	2402	-5.60	Pass
Bluetooth LE	1	2440	-5.96	Pass
Bluetooth LE	1	2480	-5.95	Pass



Maximum Power Spectral Density. Bluetooth LE
Frequency 2402 MHz.



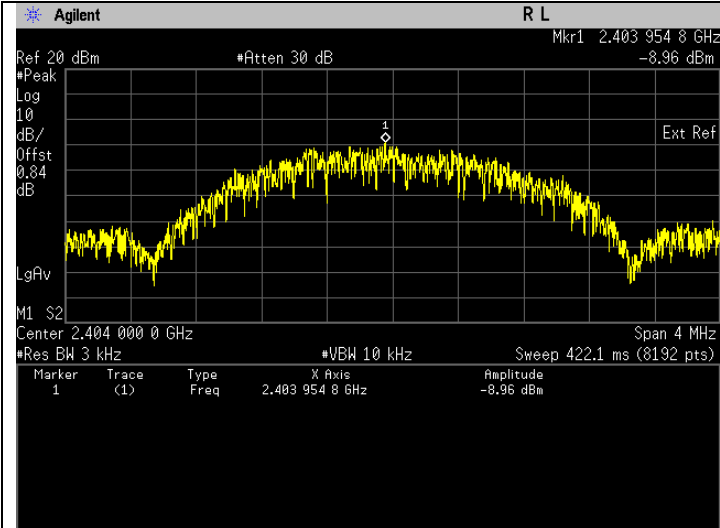
Maximum Power Spectral Density. Bluetooth LE
Frequency 2440 MHz.



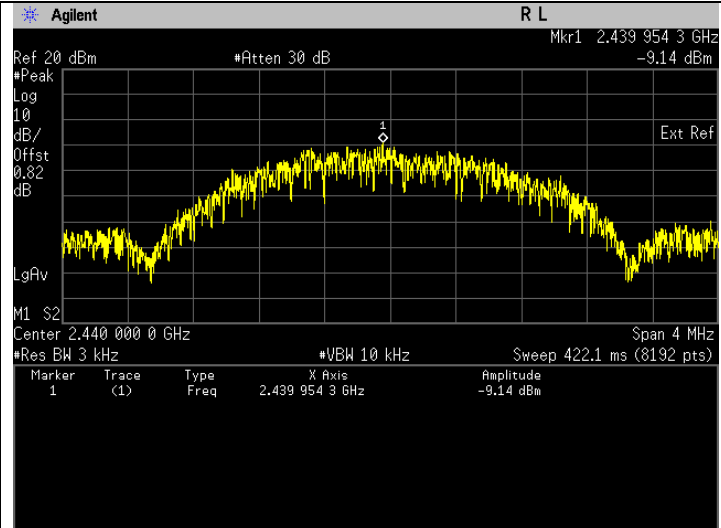
Maximum Power Spectral Density. Bluetooth LE
Frequency 2480 MHz.

BTLE 2M

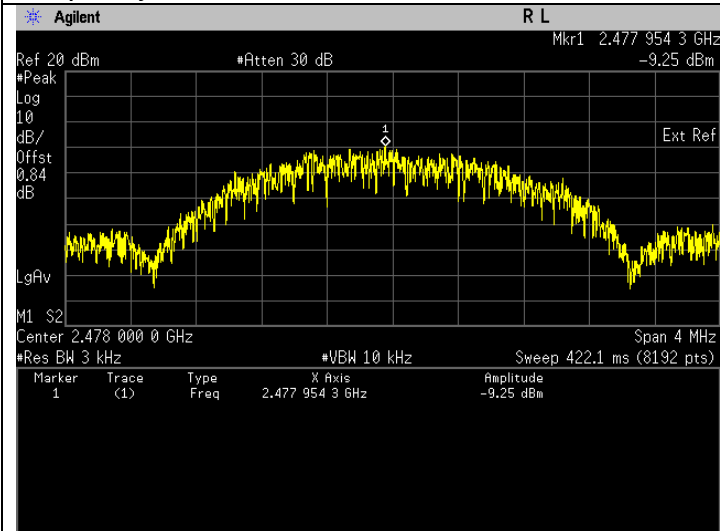
Test Conditions		Test Frequency	Results	
Standard	Data Rate	Tx (MHz)	Power (dBm/3kHz)	Status
Bluetooth LE	2	2404	-8.96	Pass
Bluetooth LE	2	2440	-9.14	Pass
Bluetooth LE	2	2478	-9.25	Pass



Maximum Power Spectral Density. Bluetooth LE
Frequency 2404 MHz.



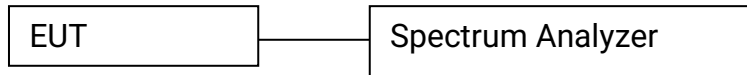
Maximum Power Spectral Density. Bluetooth LE
Frequency 2440 MHz.



Maximum Power Spectral Density. Bluetooth LE
Frequency 2478 MHz.

6.4 Conducted Spurious Emission

6.4.1 Test Setup



- 1) Check and ensure the spectrum analyzer well calibrate.
- 2) Turn on the DUT and set DUT to transmit maximum power.
- 3) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- 4) Setting of Spectrum analyzer:
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max Hold
 - e. Sweep = auto
- 5) Use the peak marker function to measure highest emission and scan up to 10th harmonic.

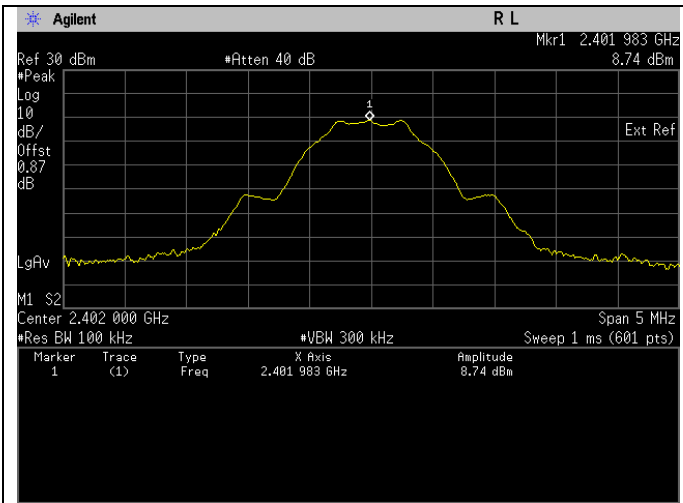
6.4.2 Test Limits:

Normal Condition (25 ° C)
Shall be at least 20 dB below max power. (Peak detector)

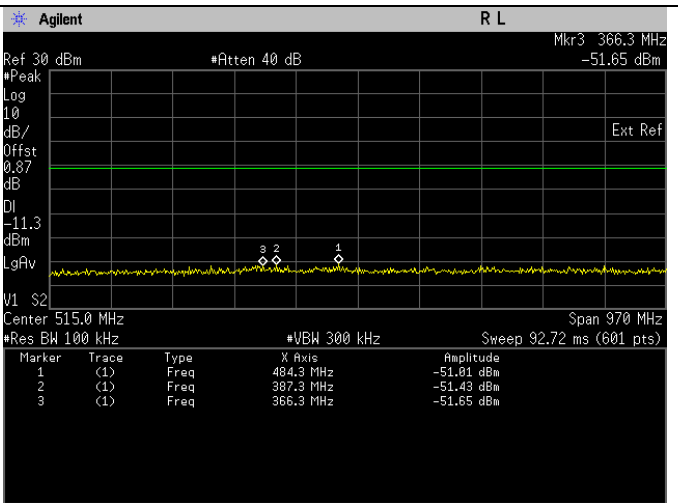
6.4.3 Test Result

BTLE 1M

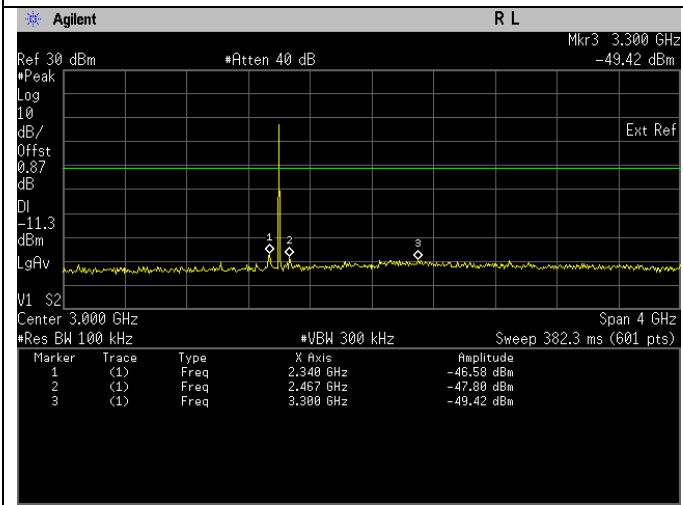
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	Spurs (MHz)	Level (dBm)	Status
Bluetooth LE	1	2402	24933.00	-42.81	Pass
			24992.00	-43.69	Pass
			24433.00	-43.81	Pass
Bluetooth LE	1	2440	24983.00	-41.85	Pass
			24575.00	-43.70	Pass
			24342.00	-43.92	Pass
Bluetooth LE	1	2480	24733.00	-43.21	Pass
			24325.00	-43.22	Pass
			24542.00	-43.68	Pass



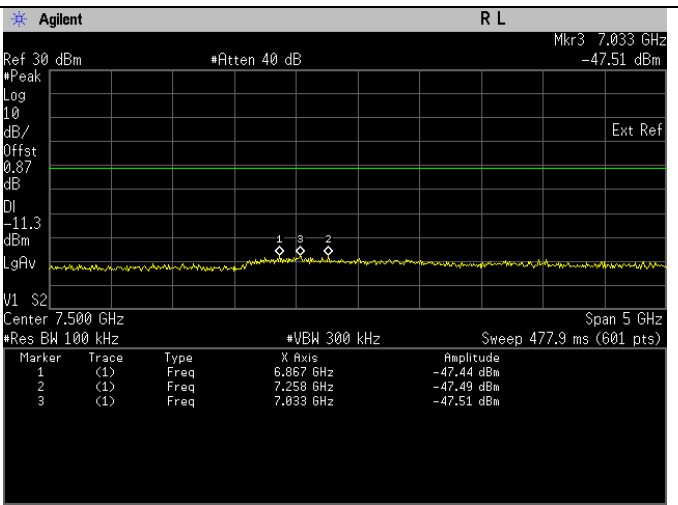
Frequency 2402 MHz. Reference Level.



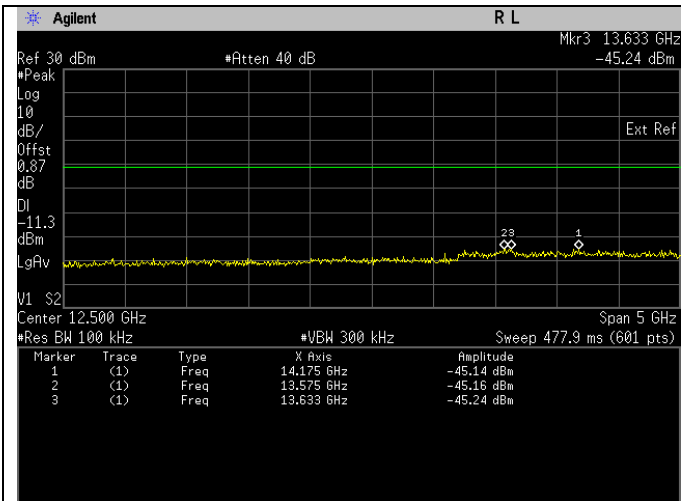
Frequency 2402 MHz. Emission Level, 30 MHz -> 1 GHz.



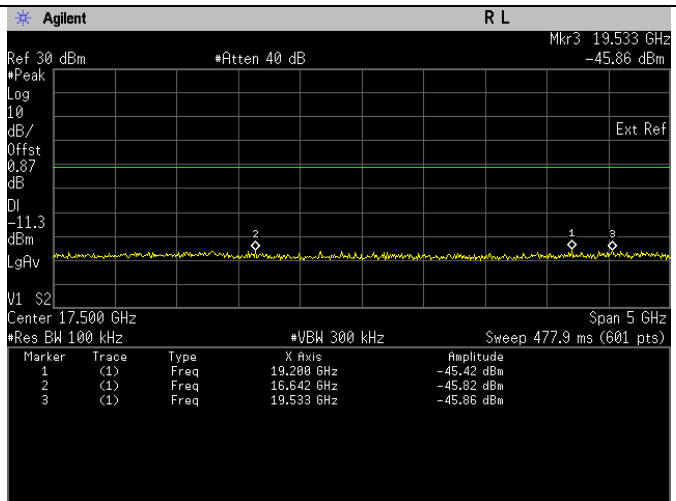
Frequency 2402 MHz. Emission Level, 1 GHz -> 5 GHz.



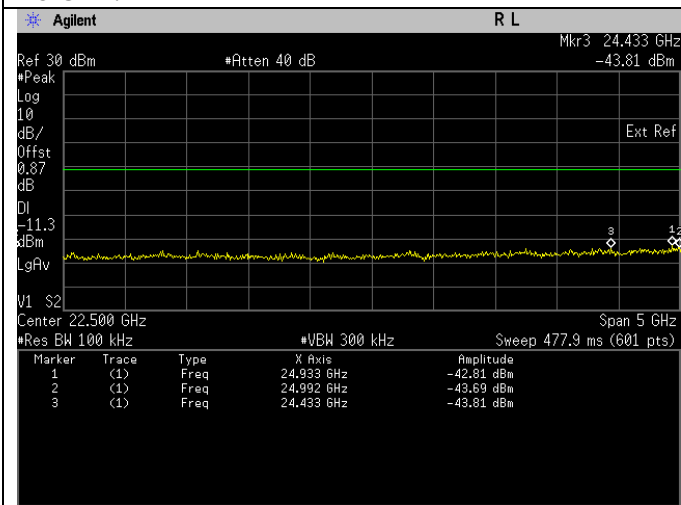
Frequency 2402 MHz. Emission Level, 5 GHz -> 10 GHz.



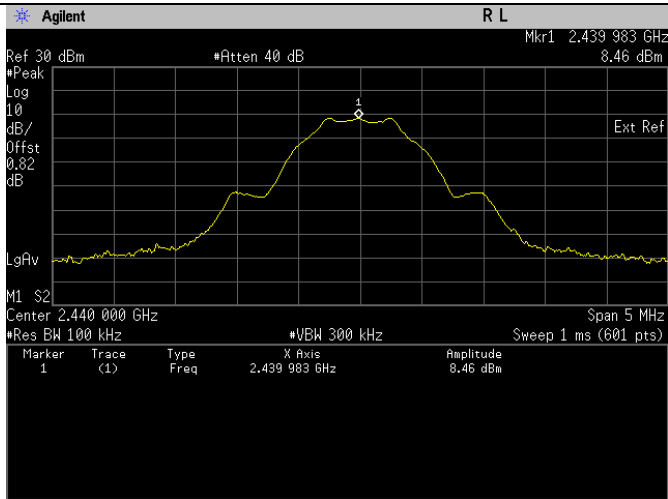
Frequency 2402 MHz. Emission Level, 10 GHz -> 15 GHz.



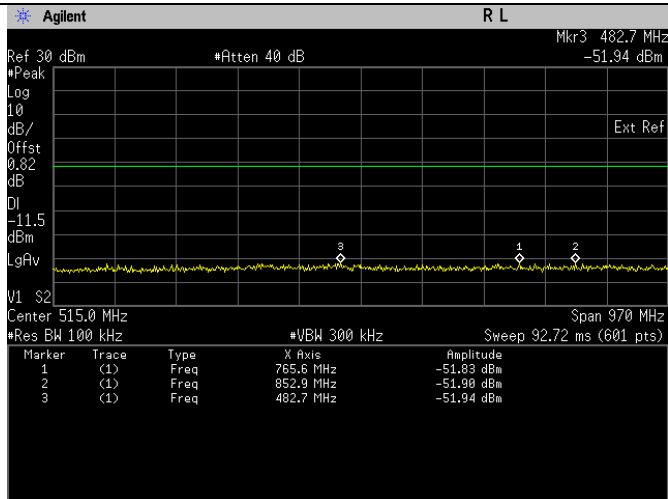
Frequency 2402 MHz. Emission Level, 15 GHz -> 20 GHz.



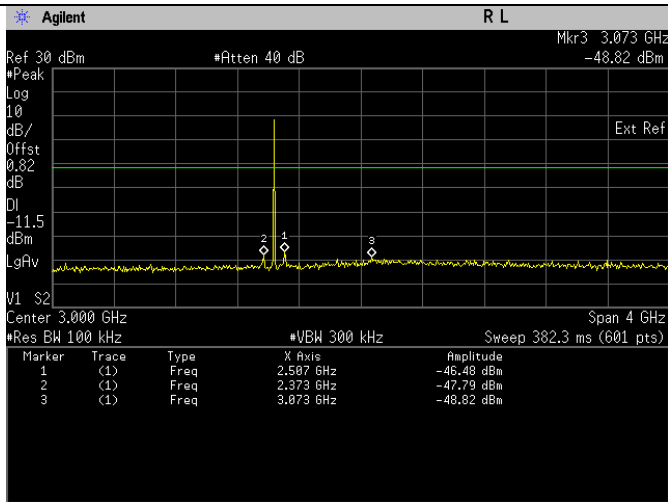
Frequency 2402 MHz Emission Level, 20 GHz -> 25 GHz.



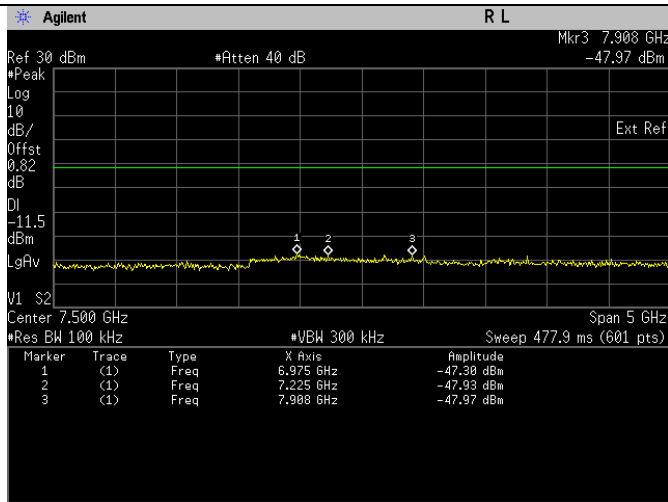
Frequency 2440 MHz. Reference Level.



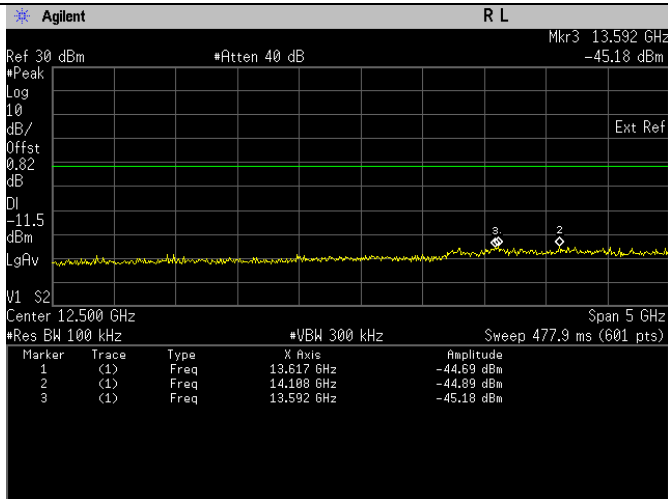
Frequency 2440 MHz. Emission Level, 30 MHz -> 1 GHz.



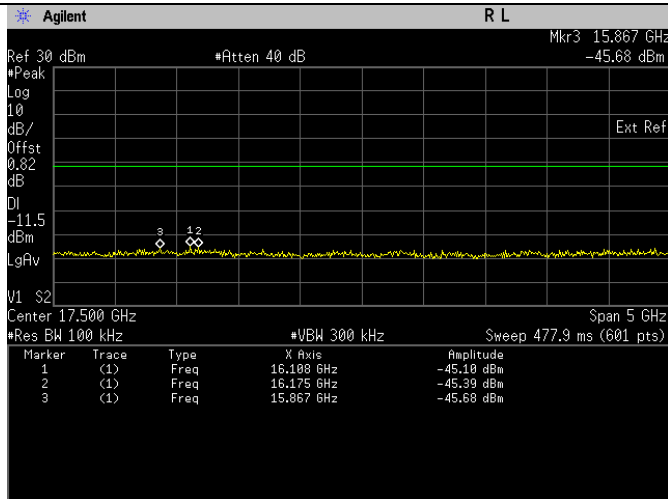
Frequency 2440 MHz. Emission Level, 1 GHz -> 5 GHz.



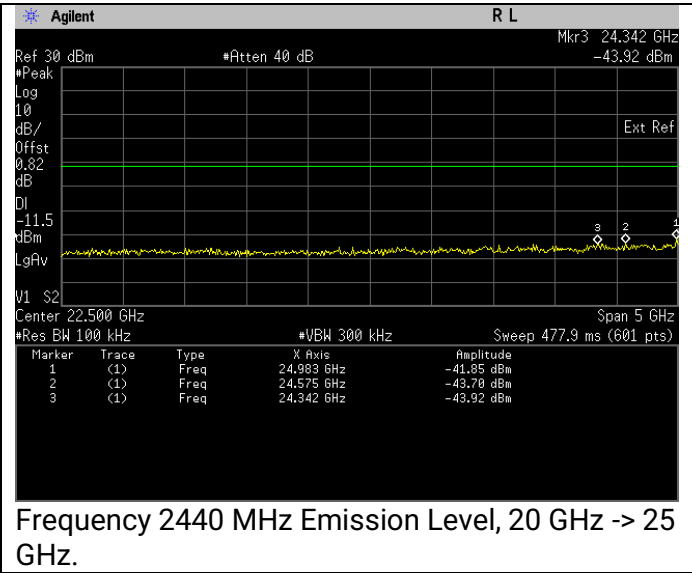
Frequency 2440 MHz. Emission Level, 5 GHz -> 10 GHz.

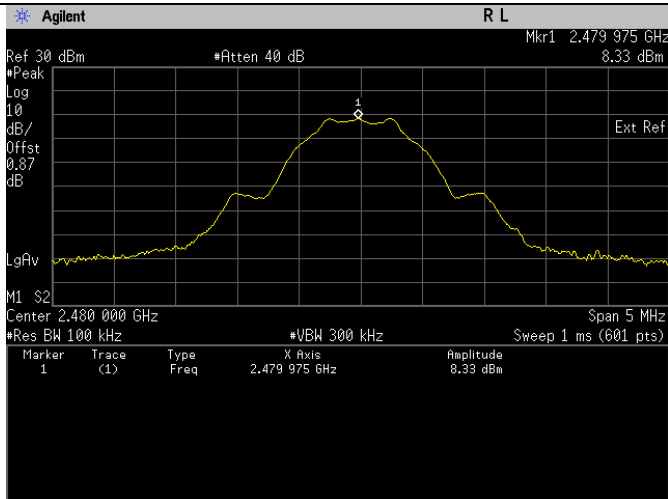


Frequency 2440 MHz. Emission Level, 10 GHz -> 15 GHz.

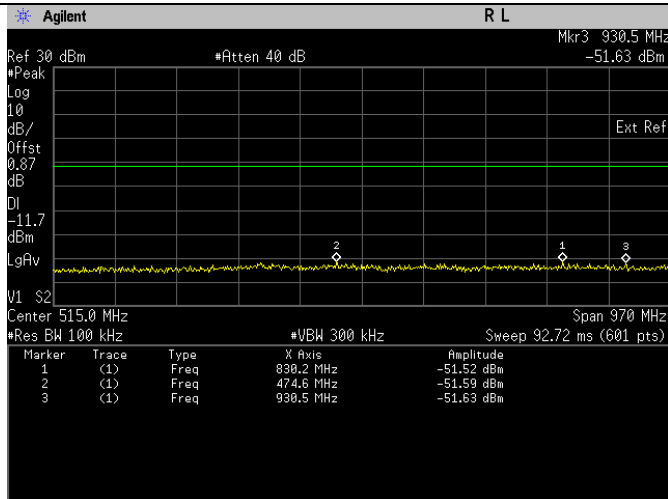


Frequency 2440 MHz. Emission Level, 15 GHz -> 20 GHz.

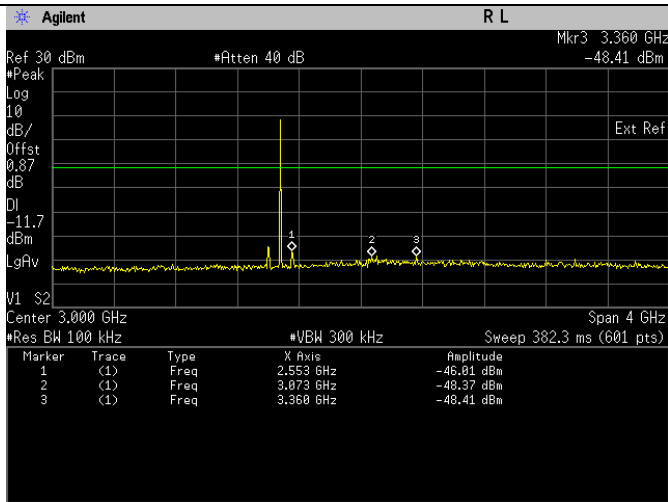




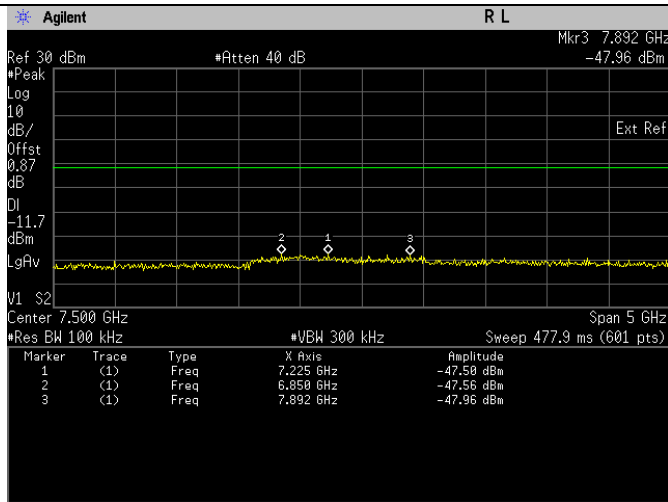
Frequency 2480 MHz. Reference Level.



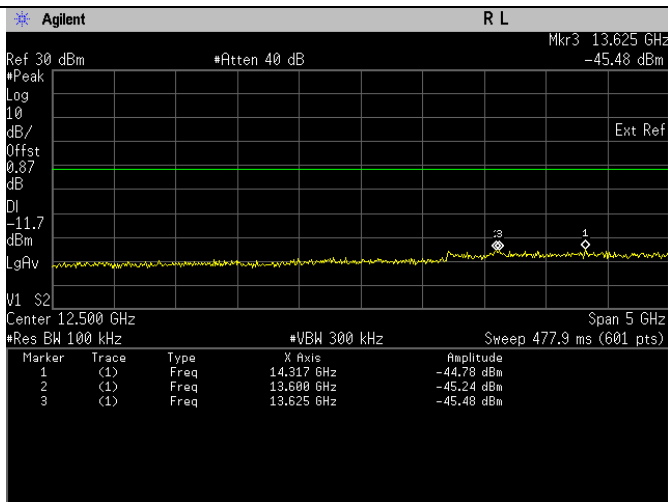
Frequency 2480 MHz. Emission Level, 30 MHz -> 1 GHz.



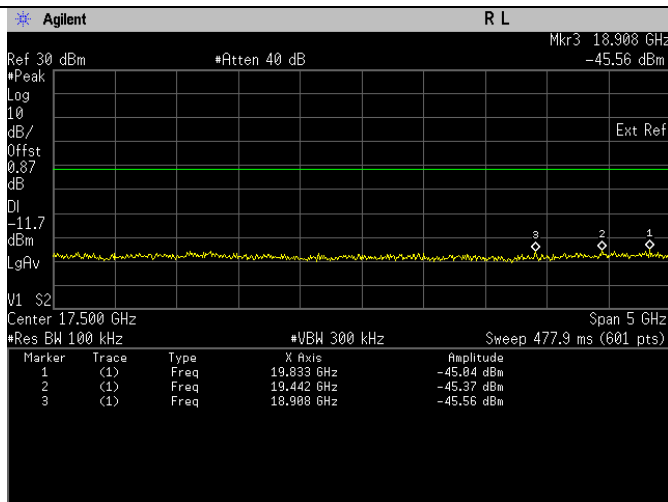
Frequency 2480 MHz. Emission Level, 1 GHz -> 5 GHz.



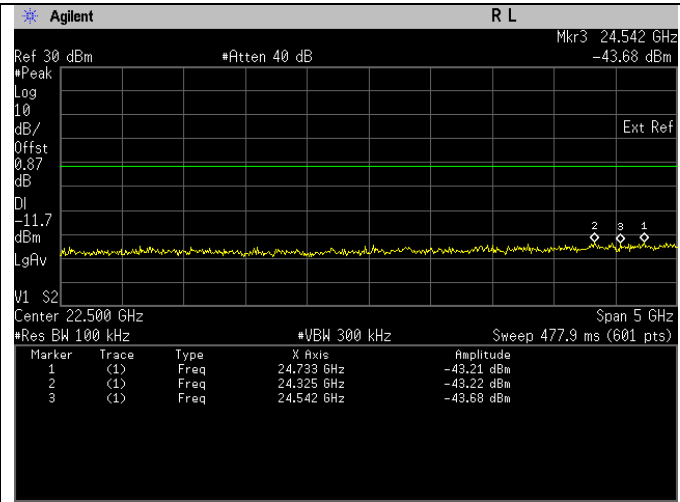
Frequency 2480 MHz. Emission Level, 5 GHz -> 10 GHz.



Frequency 2480 MHz. Emission Level, 10 GHz -> 15 GHz.



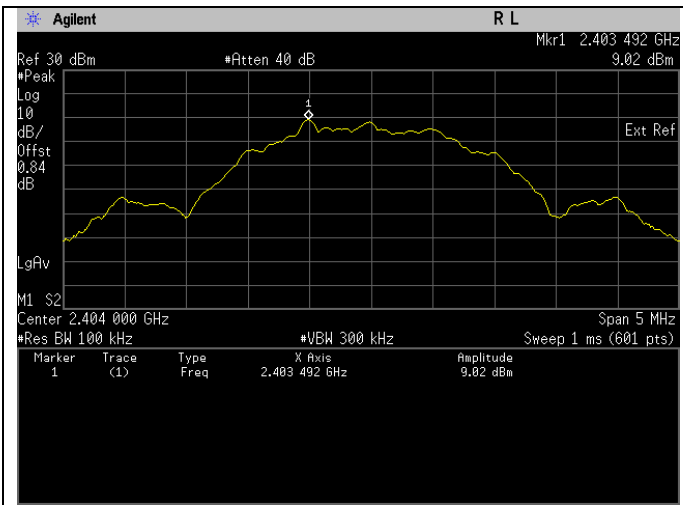
Frequency 2480 MHz. Emission Level, 15 GHz -> 20 GHz.



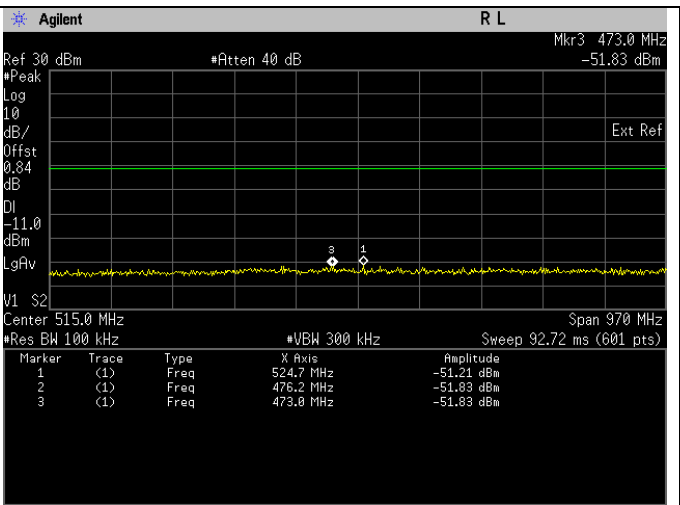
Frequency 2480 MHz Emission Level, 20 GHz -> 25 GHz.

BTLE 2M

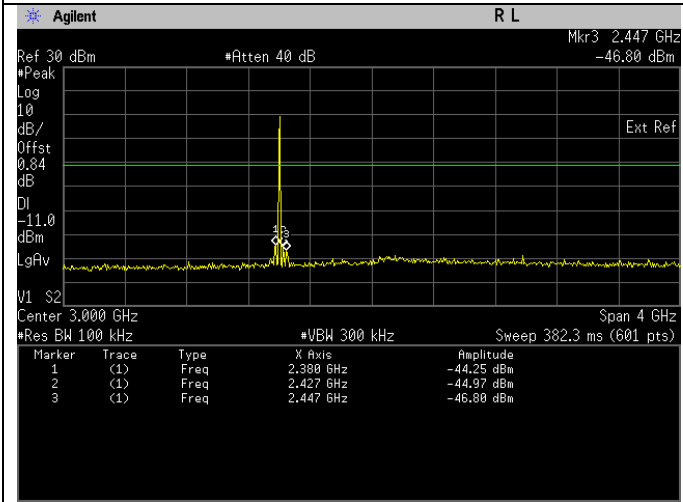
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	Spurs (MHz)	Level (dBm)	Status
Bluetooth LE	2	2404	24750.00	-43.37	Pass
			24683.00	-43.50	Pass
			24667.00	-43.66	Pass
Bluetooth LE	2	2440	24975.00	-43.21	Pass
			24108.00	-43.46	Pass
			24367.00	-43.89	Pass
Bluetooth LE	2	2478	24942.00	-42.87	Pass
			24892.00	-43.24	Pass
			24292.00	-43.65	Pass



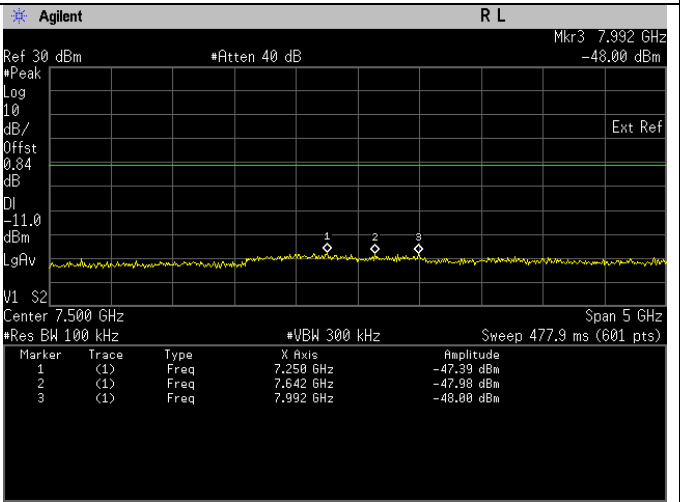
Frequency 2404 MHz. Reference Level.



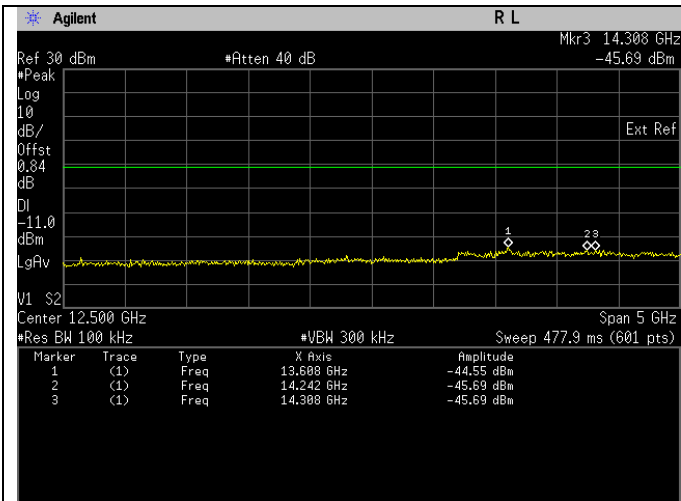
Frequency 2404 MHz. Emission Level, 30 MHz -> 1 GHz.



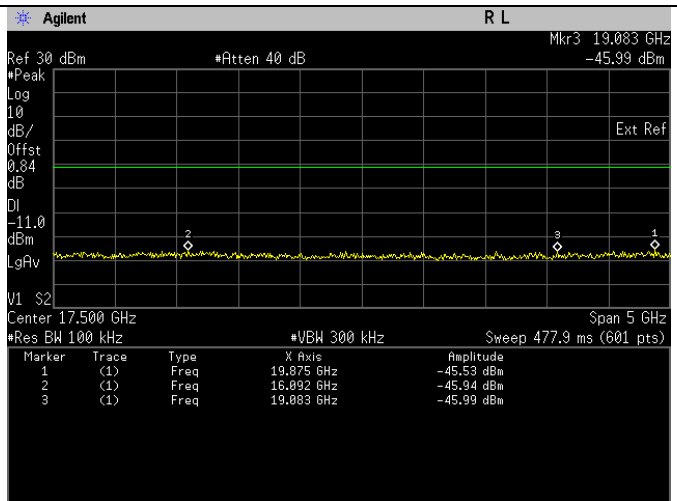
Frequency 2404 MHz. Emission Level, 1 GHz -> 5 GHz.



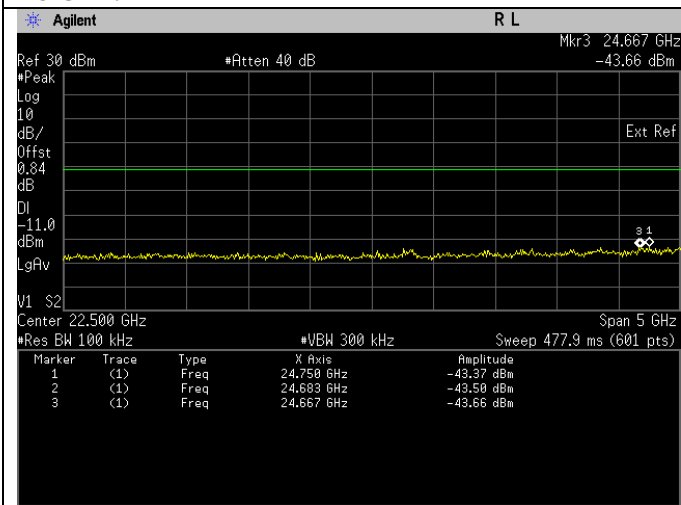
Frequency 2404 MHz. Emission Level, 5 GHz -> 10 GHz.



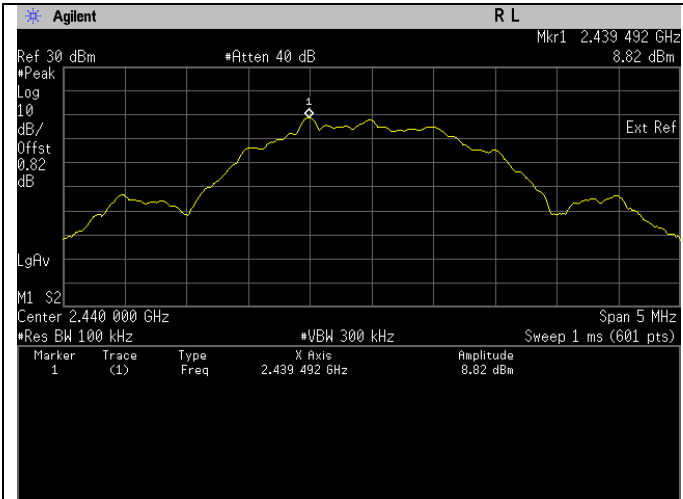
Frequency 2404 MHz. Emission Level, 10 GHz -> 15 GHz.



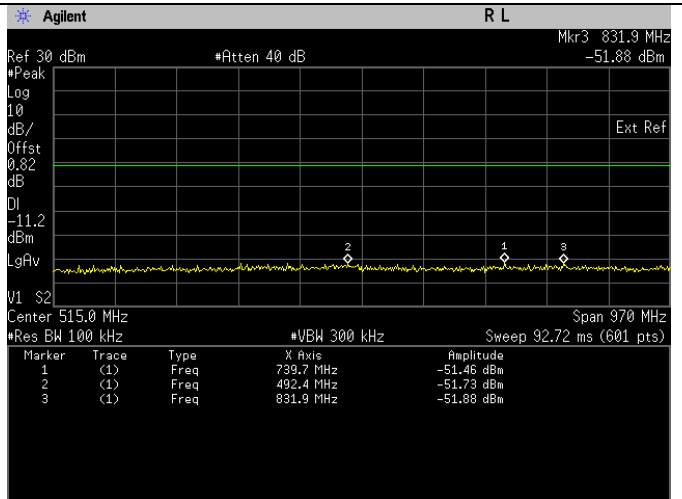
Frequency 2404 MHz. Emission Level, 15 GHz -> 20 GHz.



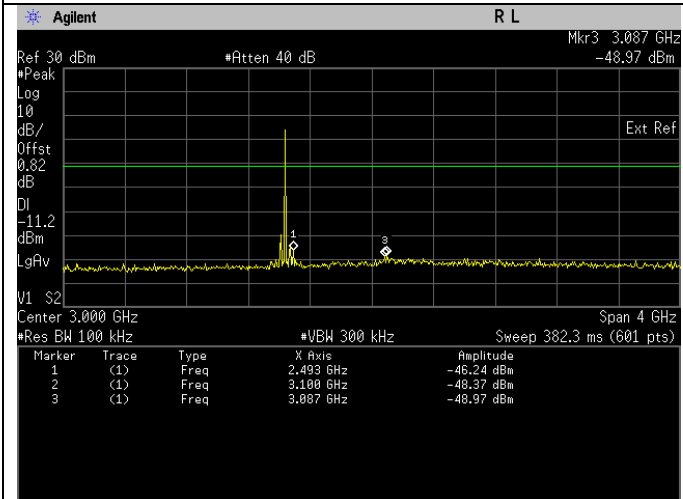
Frequency 2404 MHz Emission Level, 20 GHz -> 25 GHz.



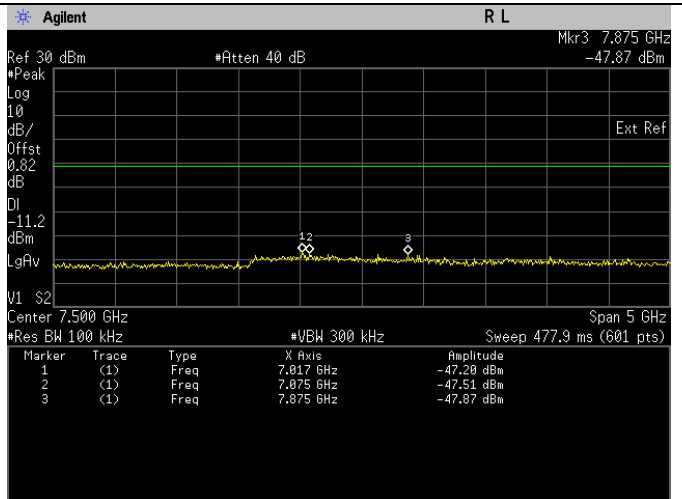
Frequency 2440 MHz. Reference Level.



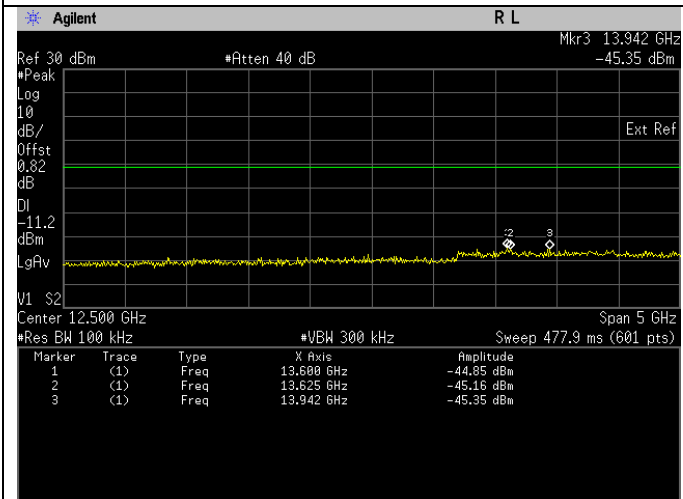
Frequency 2440 MHz. Emission Level, 30 MHz -> 1 GHz.



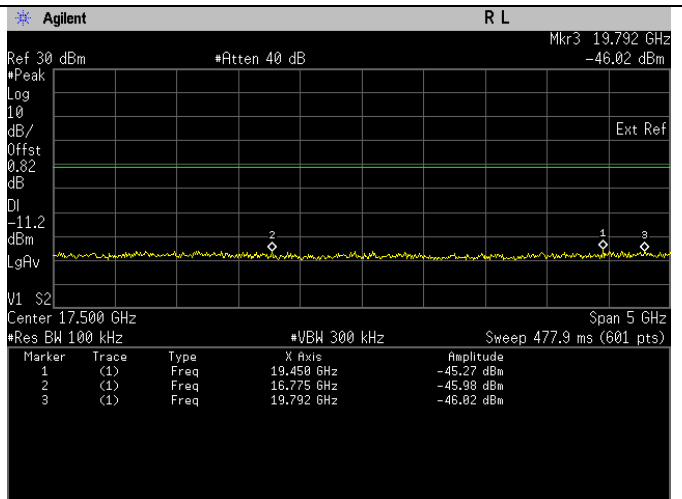
Frequency 2440 MHz. Emission Level, 1 GHz -> 5 GHz.



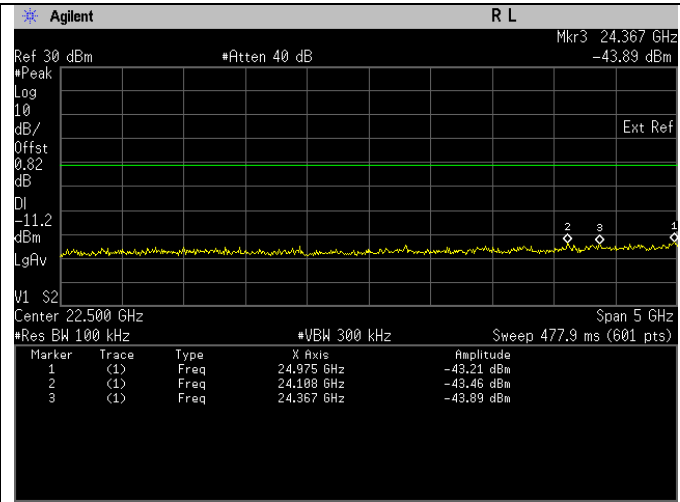
Frequency 2440 MHz. Emission Level, 5 GHz -> 10 GHz.



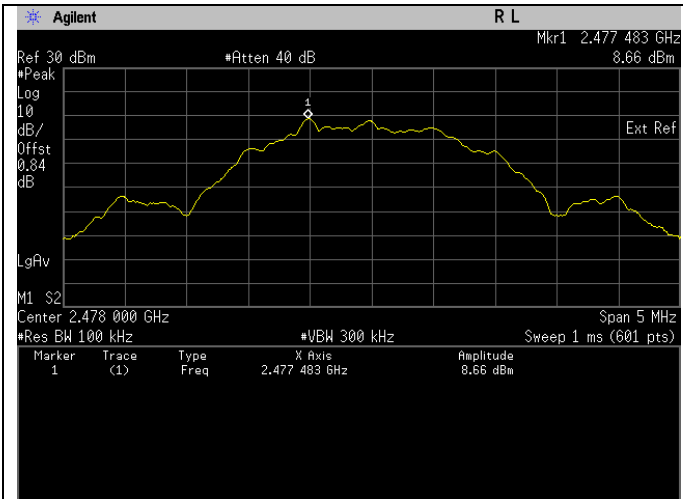
Frequency 2440 MHz. Emission Level, 10 GHz -> 15 GHz.



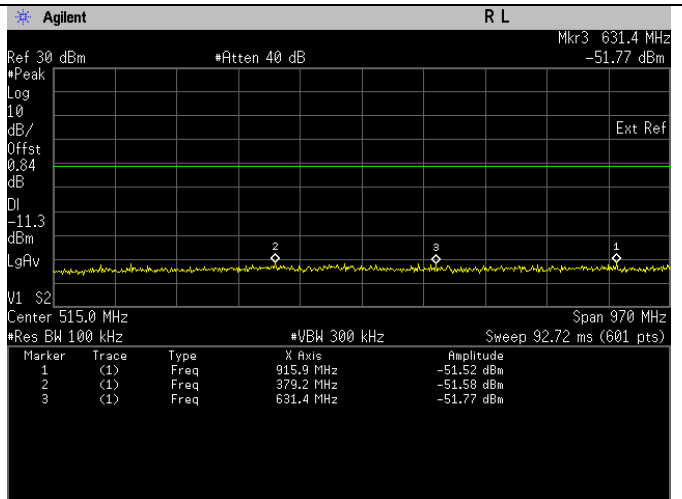
Frequency 2440 MHz. Emission Level, 15 GHz -> 20 GHz.



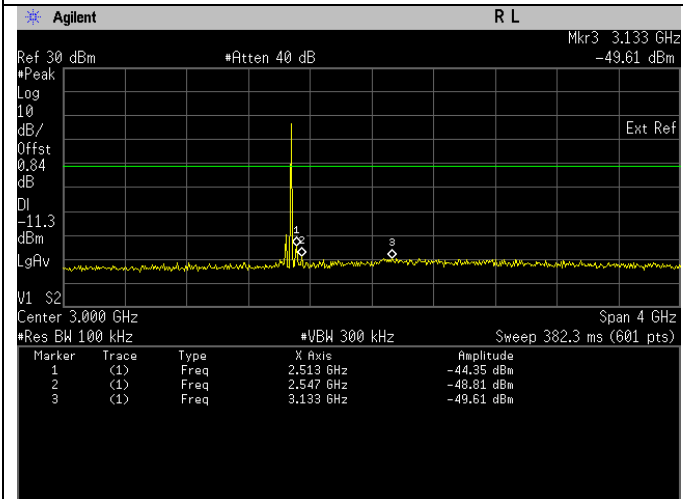
Frequency 2440 MHz Emission Level, 20 GHz -> 25 GHz.



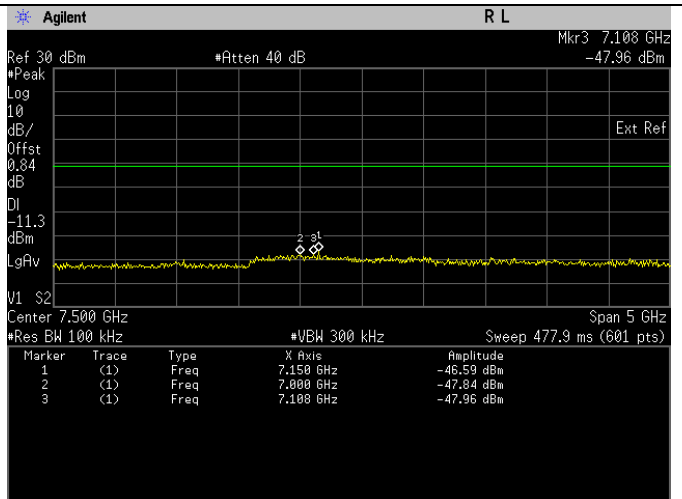
Frequency 2478 MHz. Reference Level.



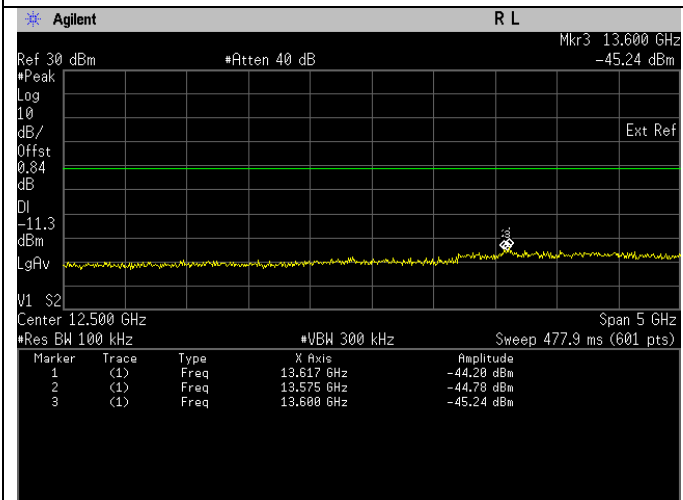
Frequency 2478 MHz. Emission Level, 30 MHz -> 1 GHz.



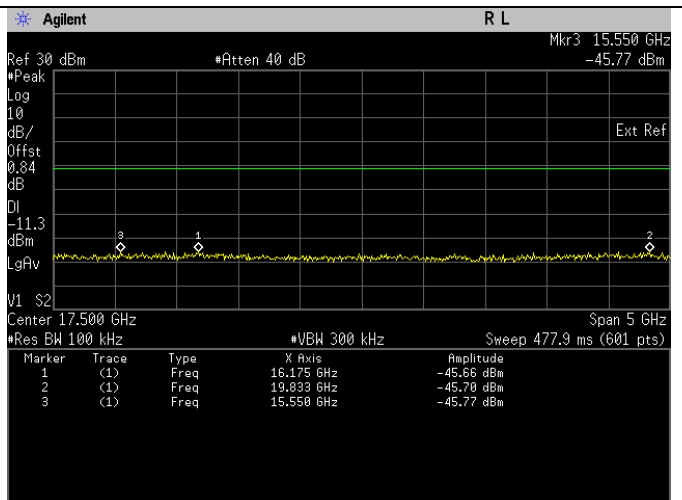
Frequency 2478 MHz. Emission Level, 1 GHz -> 5 GHz.



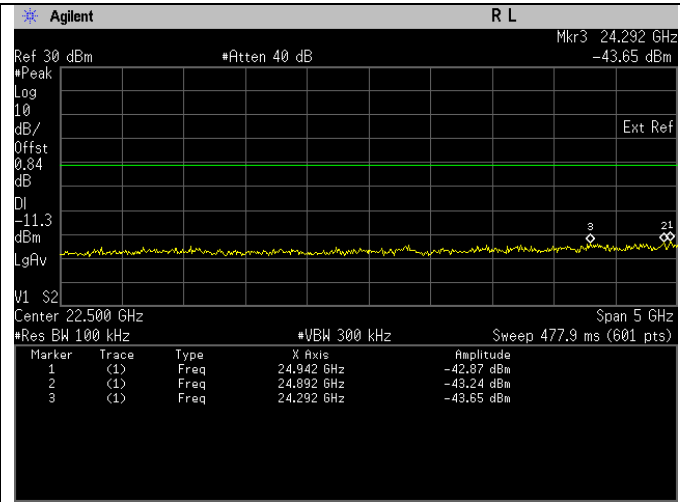
Frequency 2478 MHz. Emission Level, 5 GHz -> 10 GHz.



Frequency 2478 MHz. Emission Level, 10 GHz -> 15 GHz.



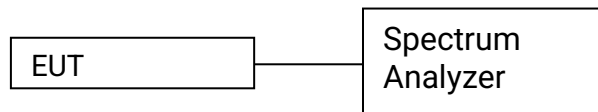
Frequency 2478 MHz. Emission Level, 15 GHz -> 20 GHz.



Frequency 2478 MHz Emission Level, 20 GHz -> 25 GHz.

6.5 Band edge Conducted Spurious Emission

6.5.1 Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the DUT and set DUT to transmit maximum power.
- c) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer:
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max Hold
 - e. Sweep = auto
- e) Use the peak marker function to measure highest emission.

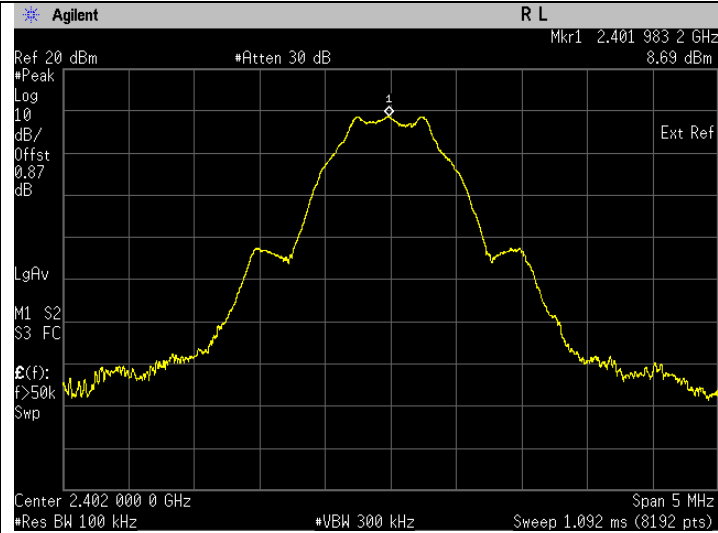
6.5.2 Test Limits:

Normal Condition (25 ° C)
Shall be at least 20 dB below max power. (Peak detector)

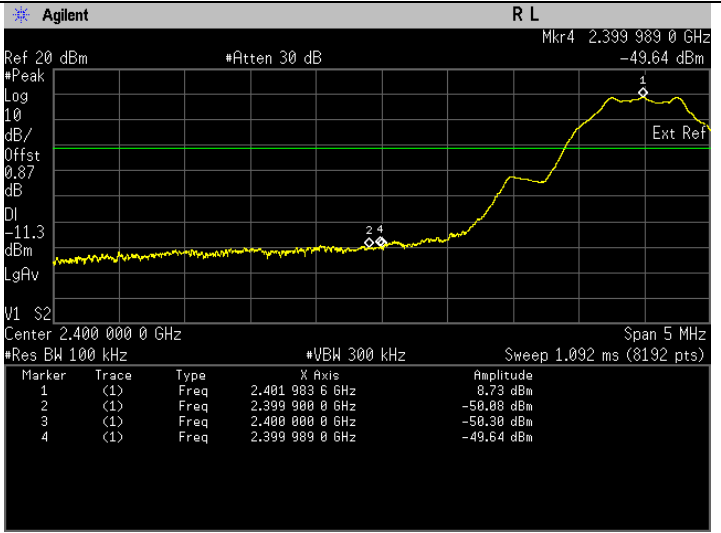
6.5.3 Test Result

BTLE 1M

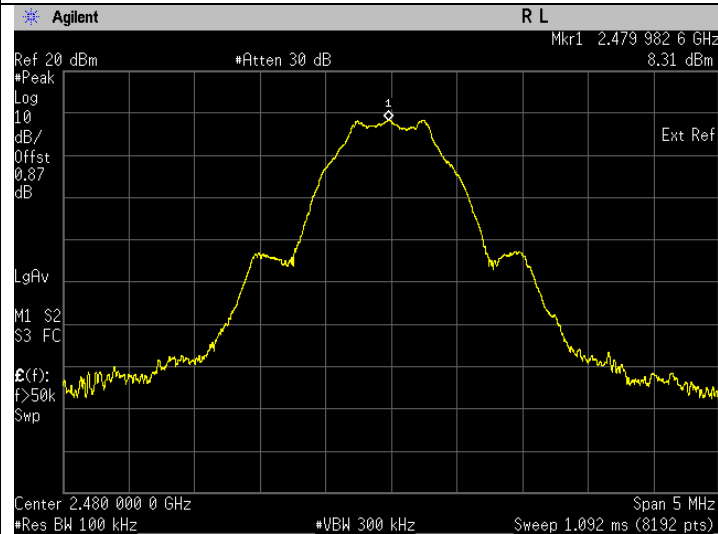
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	Frequencies (MHz)	Power (dBm)	Status
Bluetooth LE	1	2402	2399.99	-49.64	Pass
Bluetooth LE	1	2480	2483.57	-55.51	Pass



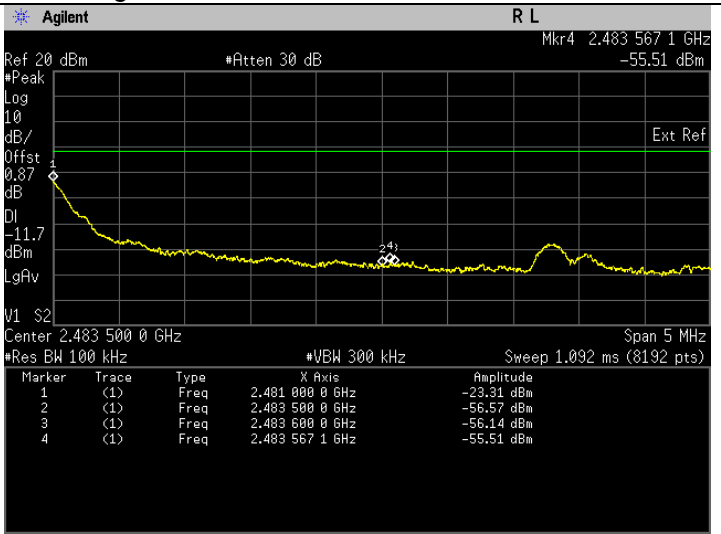
Band Edge (Peak). Bluetooth LE Frequency 2402 MHz Reference Level.



Band Edge (Peak). Bluetooth LE Frequency 2402 MHz Band Edge.



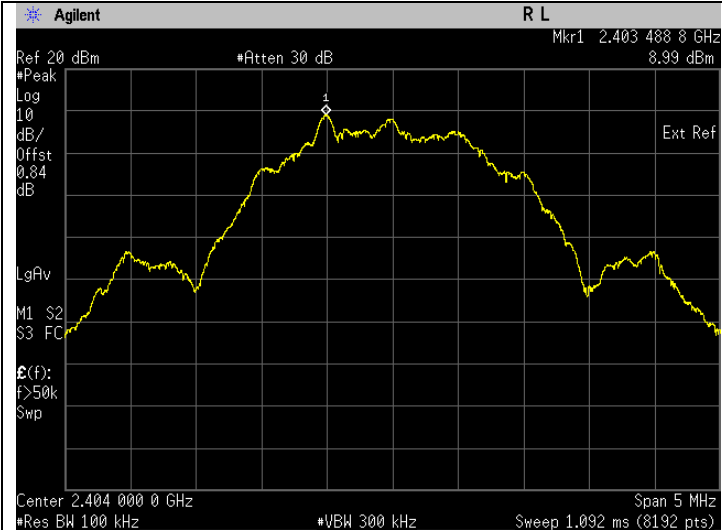
Band Edge (Peak). Bluetooth LE Frequency 2480 MHz Reference Level.



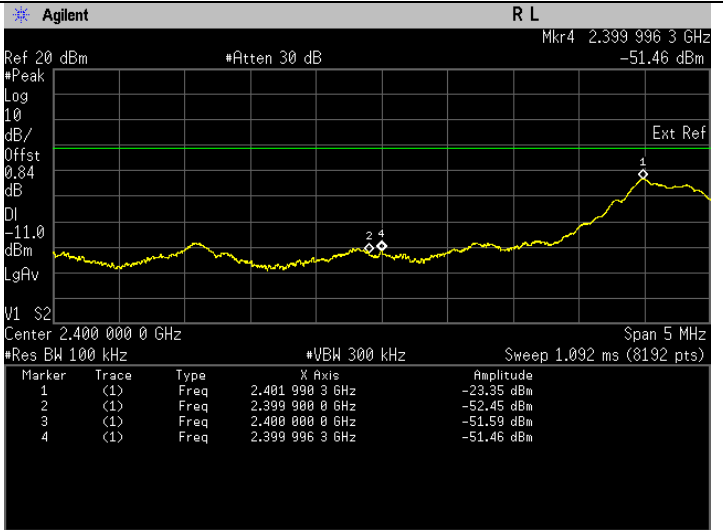
Band Edge (Peak). Bluetooth LE Frequency 2480 MHz Band Edge.

BTLE 2M

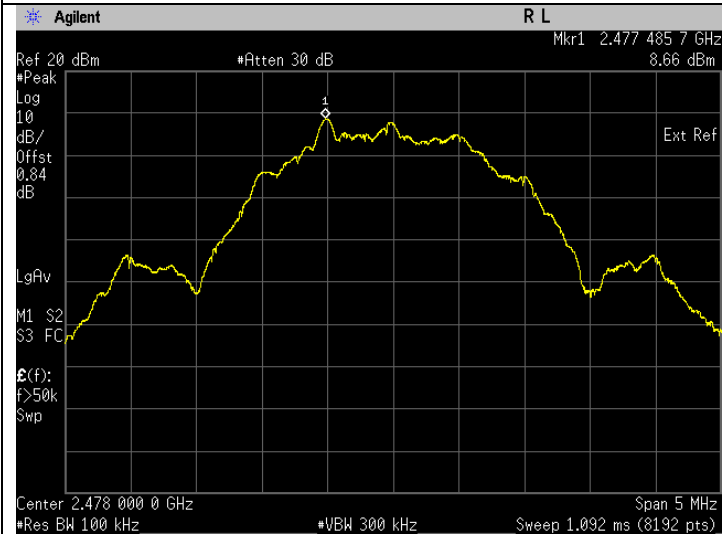
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	Frequencies (MHz)	Power (dBm)	Status
Bluetooth LE	2	2404	2400.00	-51.46	Pass
Bluetooth LE	2	2478	2483.50	-51.02	Pass



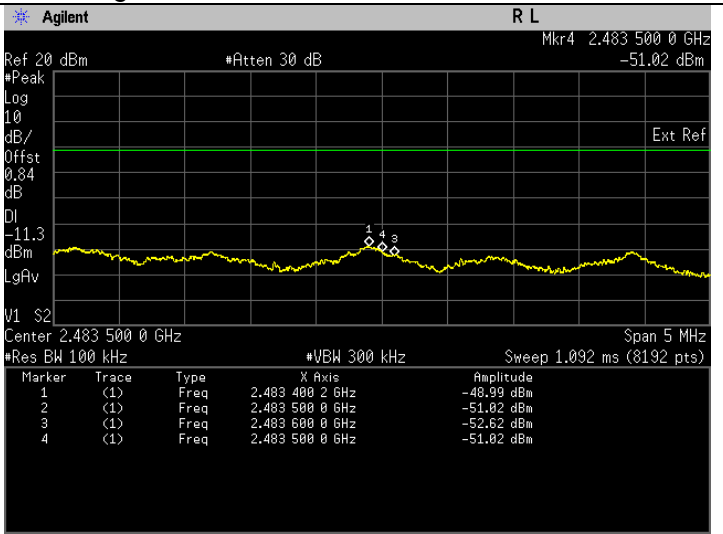
Band Edge (Peak). Bluetooth LE Frequency 2404 MHz Reference Level.



Band Edge (Peak). Bluetooth LE Frequency 2404 MHz Band Edge.



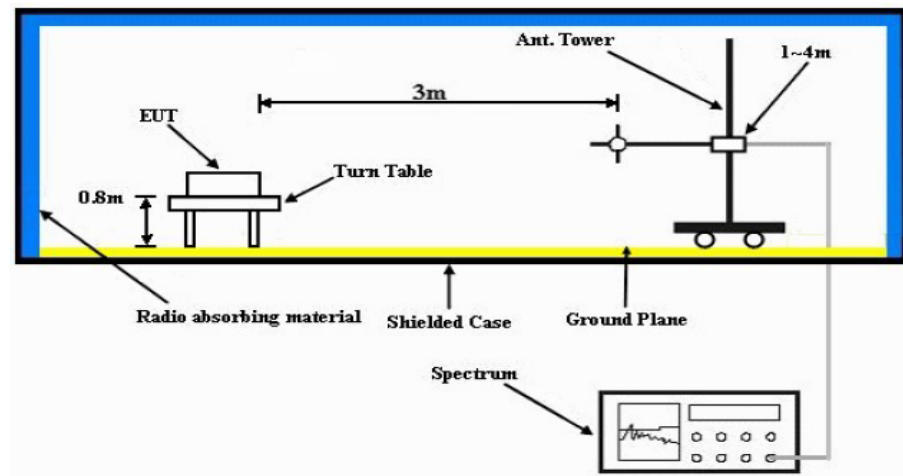
Band Edge (Peak). Bluetooth LE Frequency 2478 MHz Reference Level.



Band Edge (Peak). Bluetooth LE Frequency 2478 MHz Band Edge.

6.6 Radiated Emission within Restricted Bands

6.6.1 Test Setup



- The EUT is placed on the top of a rotating table 0.8m (<1GHz) or 1.5m (>1GHz) above the ground at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
- The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
- The antenna is Bilog/Horn antenna depend on which frequency range uses, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

6.6.2 Test Limits:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	$2400/F(\text{kHz})$	300
0.490-1.705	$24000/F(\text{kHz})$	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

NOTE:

- 1) The lower limit shall apply at the transition frequencies.
- 2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3) For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

6.6.3 Test Results:

SAC TX Restricted Band-edge : 1470N00-EMC-00031

FCC ID :	AZ492FT7191	IC :	109U-92FT7191
Model No :	AAM29QNN9YA1AN	Serial No :	008TCH0251
Battery :	-	Charger :	-
Accessory :	PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01		
Test Mode :	BTLE - GFSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	10.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		Voltage (V) : 120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2331.2990	44.08	54.00	9.92
Horizontal	Peak	2331.4580	51.61 *	74.00	22.39
Vertical	Peak	2332.2580	53.90 *	74.00	20.10
Vertical	Average	2341.2090	44.87	54.00	9.13
Horizontal	Peak	2341.4480	51.78 *	74.00	22.22
Vertical	Peak	2341.5290	53.95 *	74.00	20.05
Vertical	Average	2390.0000	36.18	54.00	17.82
Horizontal	Average	2390.0000	35.57	54.00	18.43
Vertical	Peak	2390.0000	45.33 *	74.00	28.67
Horizontal	Peak	2390.0000	46.29 *	74.00	27.71

Temperature (°C) :	23.7	Humidity (%) :	68.9
Test Performed by :	Nazrin & Rezza	Test Date :	Mon, 18 May, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

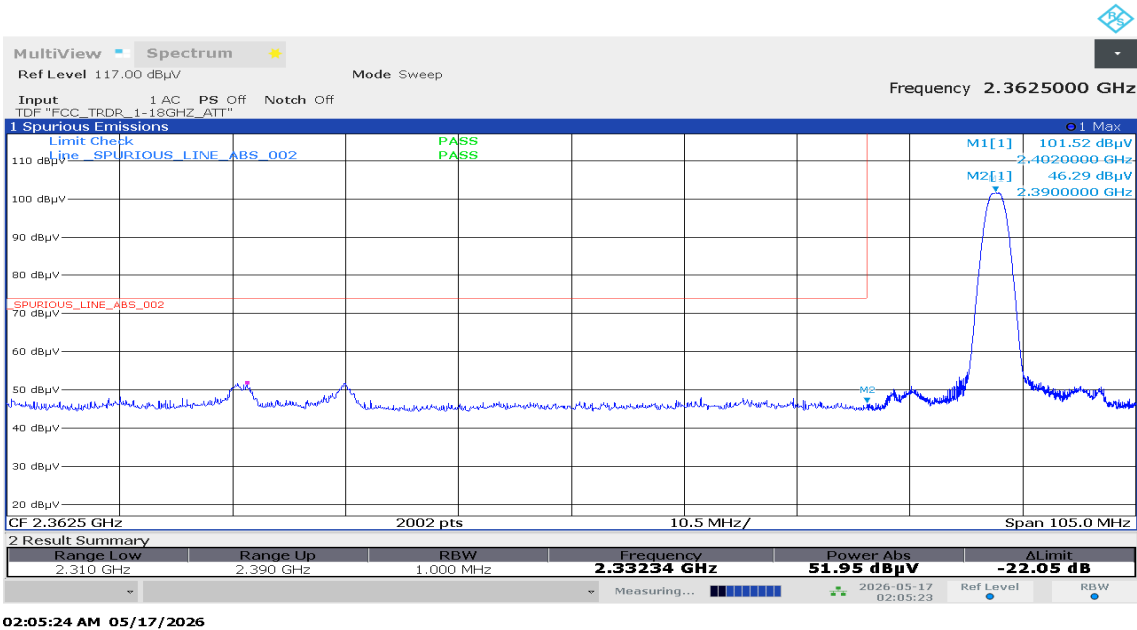
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

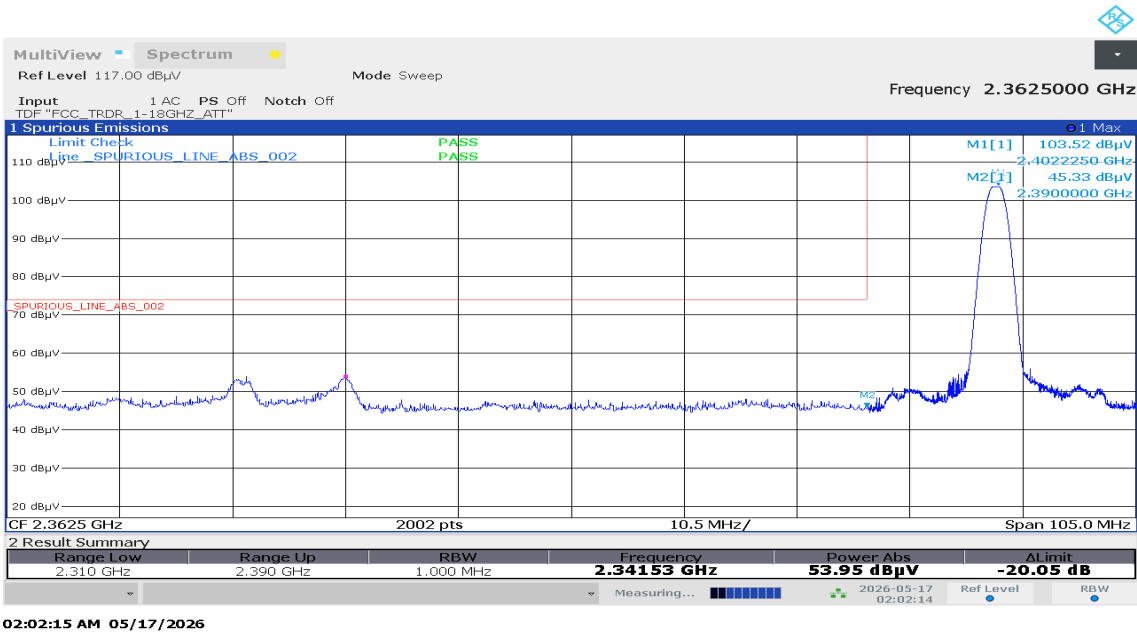
1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.

2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

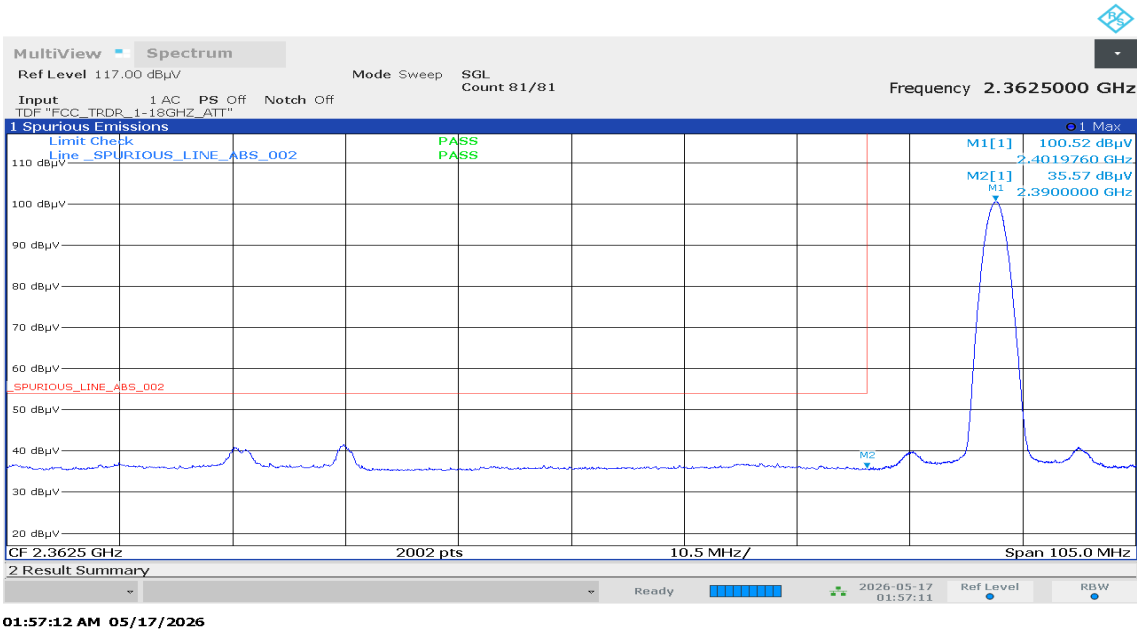
Restricted Band Edge (Peak,Horizontal)



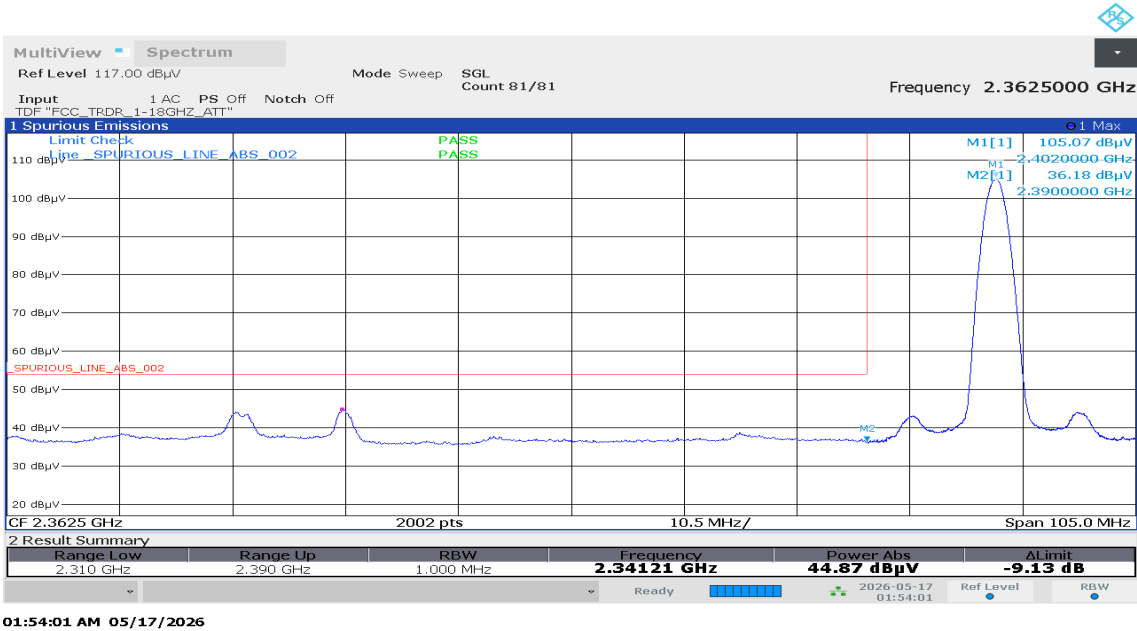
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Restricted Band-edge : 1470N00-EMC-00031

FCC ID : AZ492FT7191 IC : 109U-92FT7191
Model No : AAM29QNN9YA1AN Serial No : 008TCH0251
Battery : - Charger : -
Accessory : PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth 1000.0000 (kHz) :
Test Frequency (MHz) : 2480.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	40.56	54.00	13.44
Horizontal	Average	2483.5000	36.96	54.00	17.04
Vertical	Peak	2483.5000	48.89 *	74.00	25.11
Horizontal	Peak	2483.5000	46.23 *	74.00	27.77
Vertical	Peak	2483.5580	53.65 *	74.00	20.35
Horizontal	Peak	2483.7890	48.91 *	74.00	25.09
Vertical	Peak	2483.9370	53.96 *	74.00	20.04
Vertical	Peak	2484.0690	54.10	74.00	19.90
Vertical	Peak	2484.4810	53.92 *	74.00	20.08
Vertical	Peak	2486.0800	52.58 *	74.00	21.42
Vertical	Average	2487.6130	43.12	54.00	10.88
Vertical	Peak	2487.7610	53.00 *	74.00	21.00
Horizontal	Peak	2489.5580	48.40 *	74.00	25.60
Vertical	Peak	2489.8050	52.56 *	74.00	21.44
Horizontal	Peak	2498.8380	46.78 *	74.00	27.22

Temperature (°C) : 23.7 Humidity (%) : 68.9
Test Performed by : Nazrin & Rezza Test Date : Mon, 18 May, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

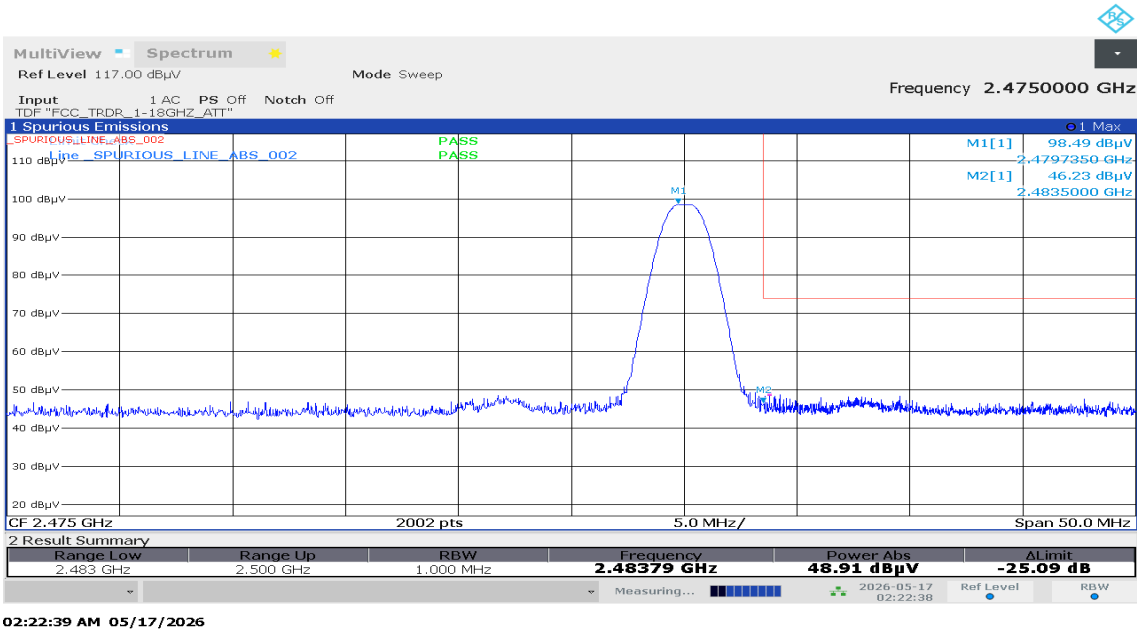
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

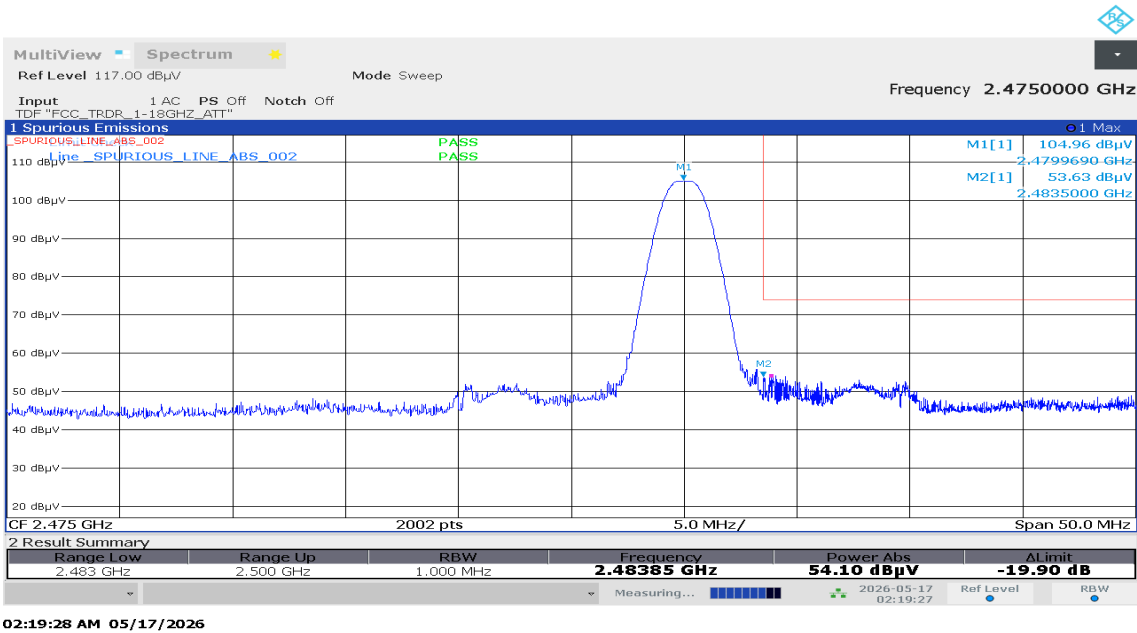
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

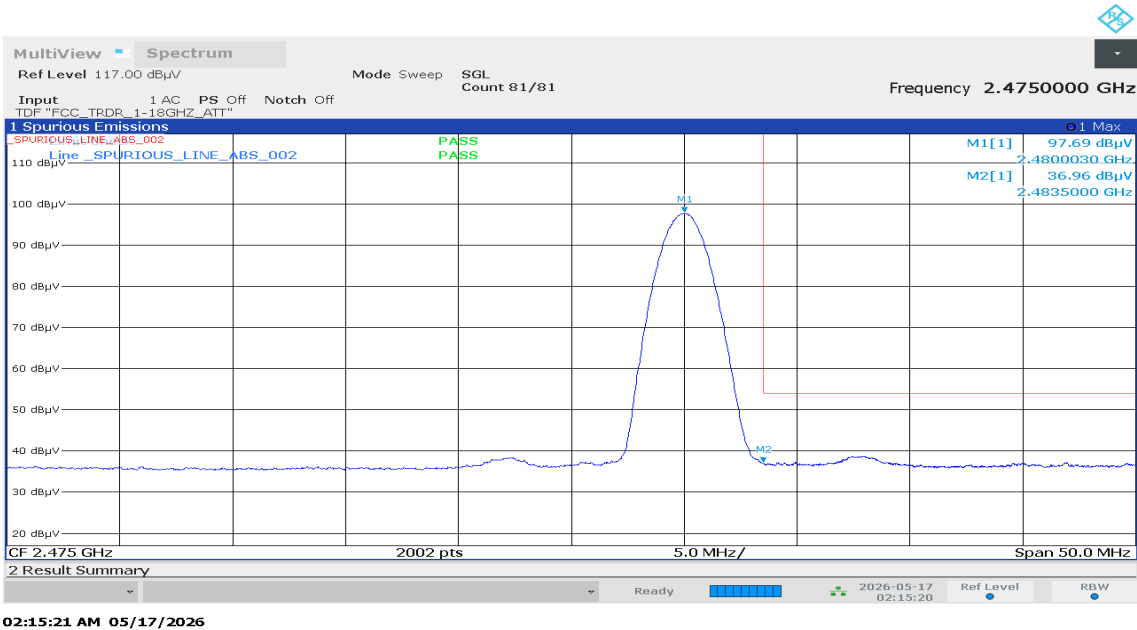
Restricted Band Edge (Peak,Horizontal)



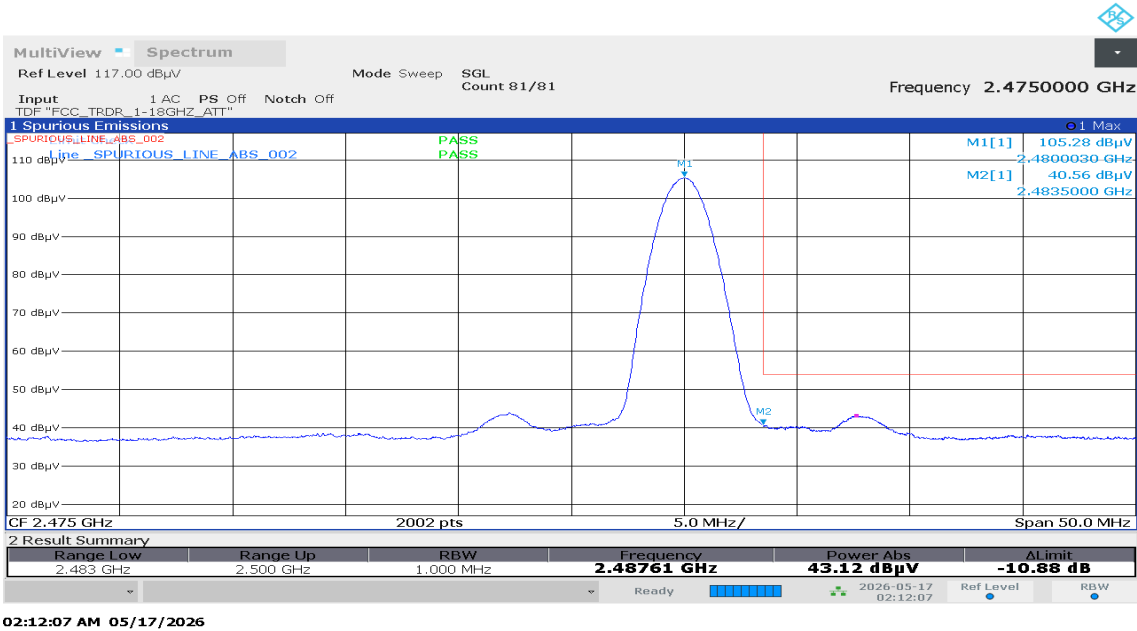
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Restricted Band-edge : 1470N00-EMC-00031

FCC ID : AZ492FT7191 IC : 109U-92FT7191
Model No : AAM29QNN9YA1AN Serial No : 008TCH0251
Battery : - Charger : -
Accessory : PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth 2000.0000 (kHz) :
Test Frequency (MHz) : 2404.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2351.3590	42.01	54.00	11.99
Vertical	Average	2364.5450	43.70	54.00	10.30
Vertical	Average	2367.4230	44.21	54.00	9.79
Horizontal	Average	2376.6130	43.62	54.00	10.38
Vertical	Average	2376.7730	44.63	54.00	9.37
Horizontal	Peak	2377.8120	51.90 *	74.00	22.10
Vertical	Peak	2378.0520	57.64	74.00	16.36
Vertical	Average	2379.1710	42.24	54.00	11.76
Vertical	Average	2384.1260	47.70	54.00	6.30
Horizontal	Peak	2384.1260	52.03 *	74.00	21.97
Horizontal	Average	2385.0850	46.43	54.00	7.57
Vertical	Peak	2385.2450	58.23	74.00	15.77
Horizontal	Average	2385.8840	43.22	54.00	10.78
Vertical	Average	2390.0000	37.02	54.00	16.98
Horizontal	Average	2390.0000	36.75	54.00	17.25
Vertical	Peak	2390.0000	47.07 *	74.00	26.93
Horizontal	Peak	2390.0000	45.36 *	74.00	28.64

Temperature (°C) : 23.7 Humidity (%) : 68.9
Test Performed by : Fuad & Rezza Test Date : Mon, 18 May, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

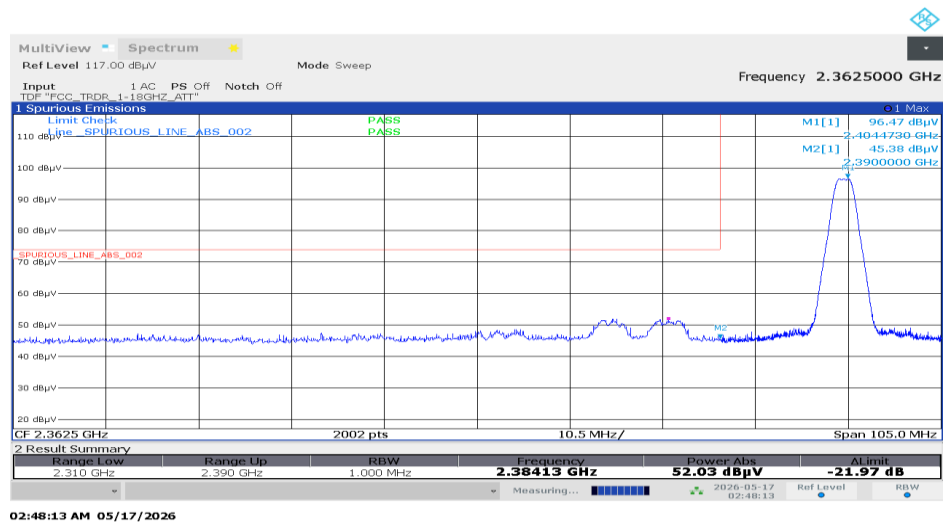
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

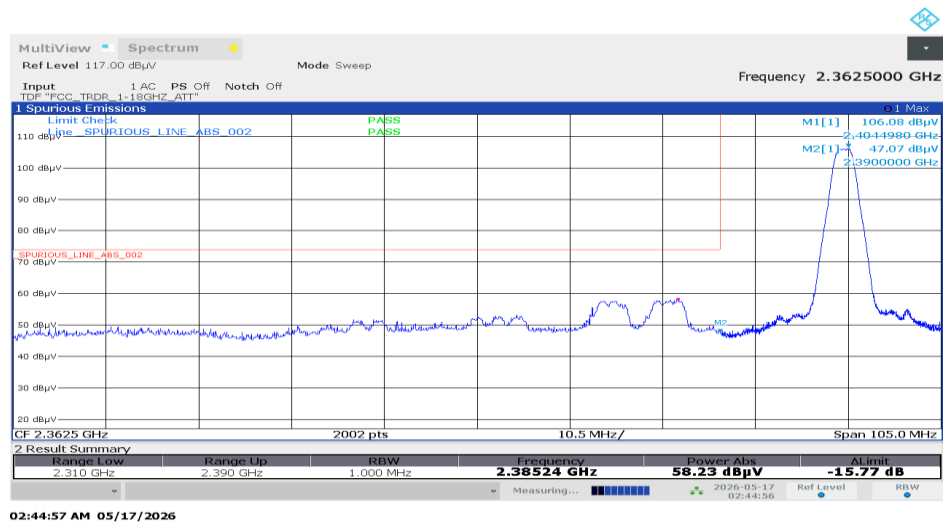
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)



SAC TX Restricted Band-edge : 1470N00-EMC-00031

FCC ID : AZ492FT7191 IC : 109U-92FT7191
Model No : AAM29QNN9YA1AN Serial No : 008TCH0251
Battery : - Charger : -
Accessory : PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth 2000.0000 (kHz) :
Test Frequency (MHz) : 2478.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	44.67	54.00	9.33
Horizontal	Average	2483.5000	38.78	54.00	15.22
Vertical	Peak	2483.5000	51.58 *	74.00	22.42
Horizontal	Peak	2483.5000	43.59 *	74.00	30.41
Vertical	Average	2483.7060	44.72	54.00	9.28
Vertical	Peak	2484.7110	52.73 *	74.00	21.27
Horizontal	Peak	2485.4370	46.61 *	74.00	27.39
Vertical	Average	2485.7830	42.04	54.00	11.96
Horizontal	Peak	2486.4260	45.90 *	74.00	28.10
Horizontal	Peak	2488.6020	46.00 *	74.00	28.00
Horizontal	Peak	2489.9530	46.46 *	74.00	27.54
Horizontal	Peak	2491.0080	45.91 *	74.00	28.09
Horizontal	Peak	2491.3380	45.95 *	74.00	28.05
Horizontal	Peak	2491.7670	46.03 *	74.00	27.97
Vertical	Average	2492.8710	42.02	54.00	11.98
Horizontal	Peak	2495.3270	46.68 *	74.00	27.32
Horizontal	Peak	2497.0910	46.28 *	74.00	27.72
Horizontal	Peak	2499.6460	46.57 *	74.00	27.43

Temperature (°C) : 23.7 Humidity (%) : 68.9
Test Performed by : Nazrin & Rezza Test Date : Mon, 18 May, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

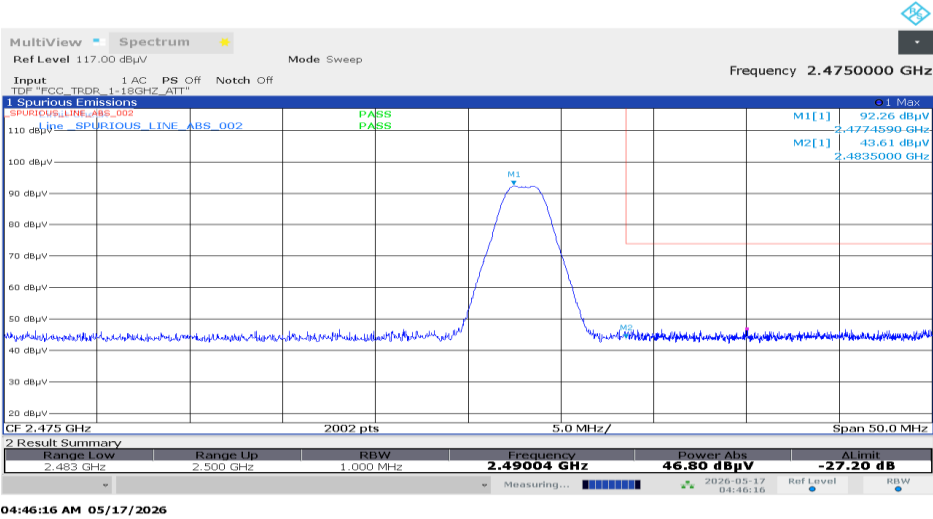
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

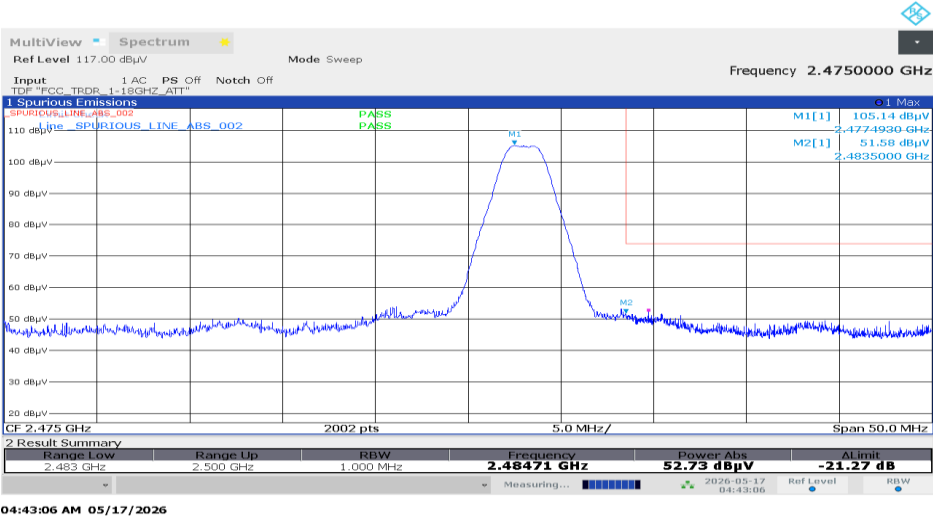
1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.

2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

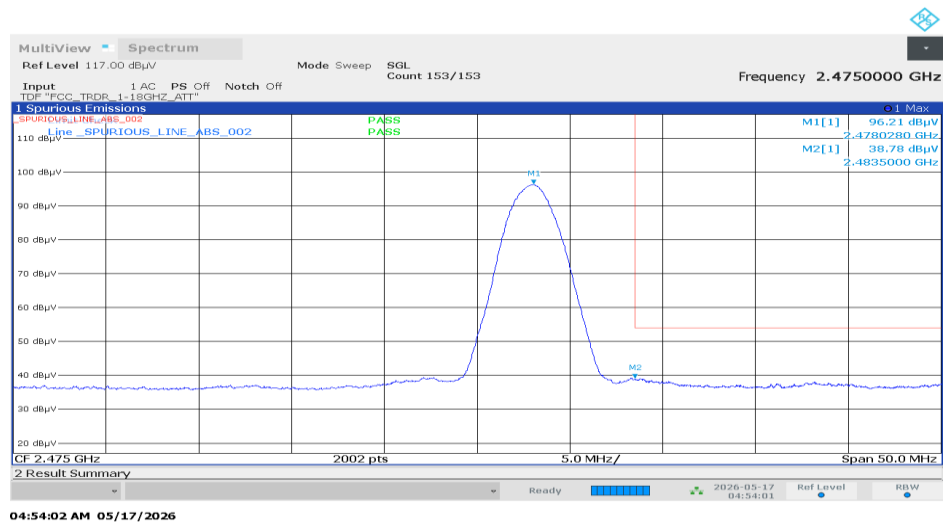
Restricted Band Edge (Peak,Horizontal)



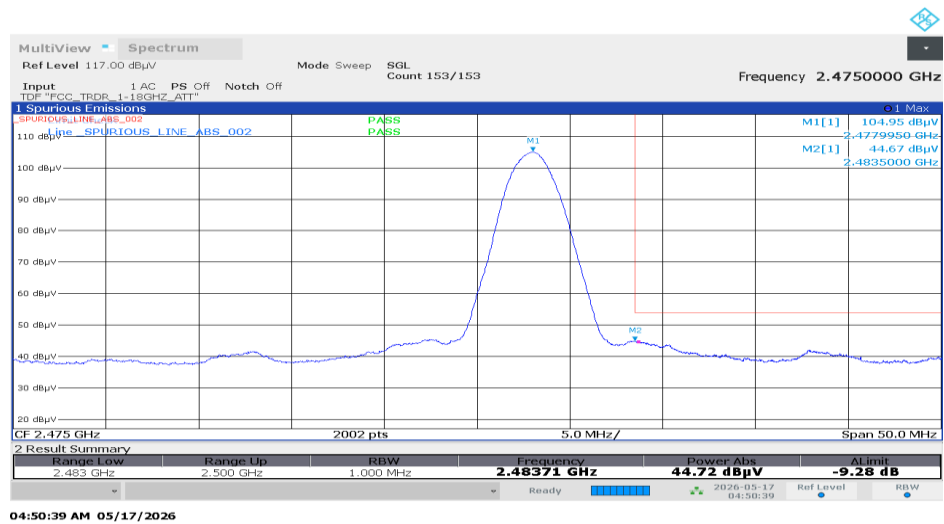
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Radiated Emission : 1470N00-EMC-00031

FCC ID : AZ492FT7191 IC : 109U-92FT7191
Model No : AAM29QNN9YA1AN Serial No : 008TCH0251
Battery : - Charger : -
Accessory : PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth 1000.0000 (kHz) :
Test Frequency (MHz) : 2402.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	30.3733	28.84 *	106.28	86.28	57.45
Vertical	Peak	30.6521	30.75 *	106.28	86.28	55.53
Vertical	Quasi-Peak	74.5620	30.26	-	40.00	9.74
Horizontal	Quasi-Peak	74.5690	29.81	-	40.00	10.19
Vertical	Peak	106.6920	29.50 *	106.28	86.28	56.79
Horizontal	Peak	106.7130	32.71 *	106.28	86.28	53.58
Vertical	Peak	148.1140	31.94 *	106.28	86.28	54.34
Horizontal	Peak	148.1200	32.43 *	106.28	86.28	53.86
Horizontal	Peak	226.8919	31.12 *	106.28	86.28	55.16
Vertical	Peak	226.9019	22.59 *	106.28	86.28	63.69
Vertical	Quasi-Peak	249.9920	18.14 *	-	46.00	27.86
Horizontal	Quasi-Peak	250.0030	29.84	-	46.00	16.16
Horizontal	Peak	592.7830	32.39 *	106.28	86.28	53.89
Vertical	Peak	592.7910	31.00 *	106.28	86.28	55.29

Temperature (°C) : 23.7 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Tue, 19 May, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

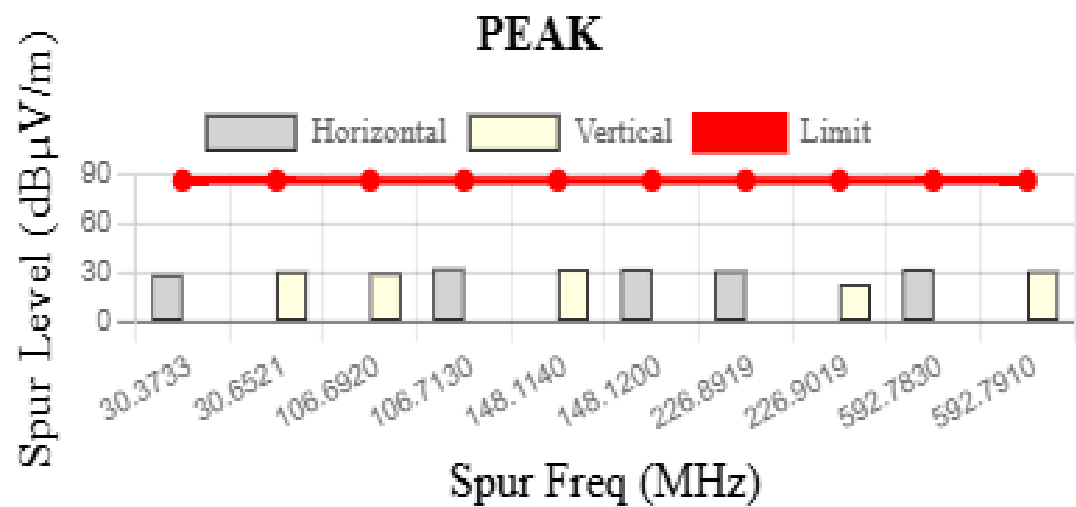
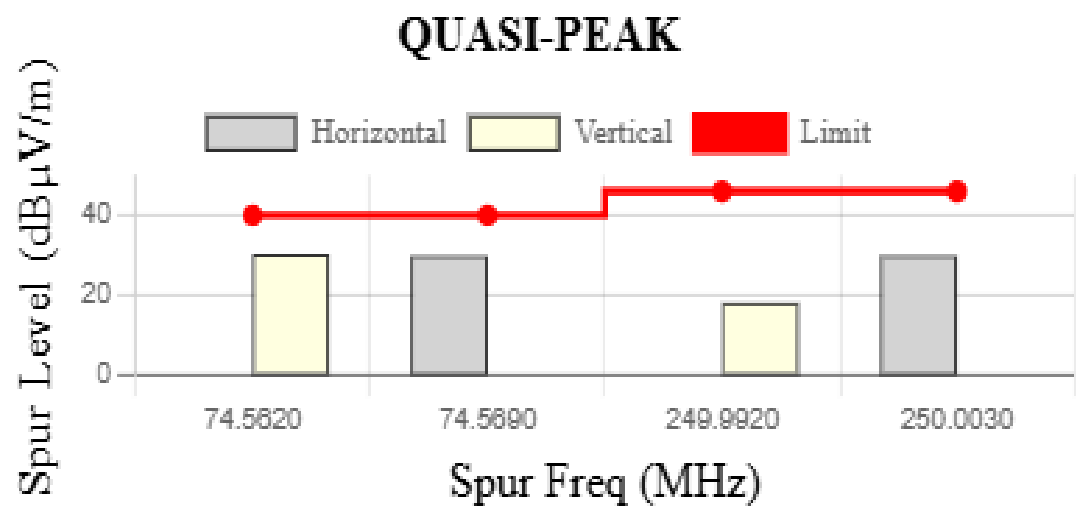
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.

2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1470N00-EMC-00031

FCC ID : AZ492FT7191 IC : 109U-92FT7191
Model No : AAM29QNN9YA1AN Serial No : 008TCH0251
Battery : - Charger : -
Accessory : PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth 1000.0000 (kHz) :
Test Frequency (MHz) : 2440.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	30.6011	29.88 *	106.28	86.28	56.40
Vertical	Peak	30.8269	31.03 *	106.28	86.28	55.25
Vertical	Peak	77.1930	31.59 *	106.28	86.28	54.69
Horizontal	Peak	77.1980	32.88 *	106.28	86.28	53.41
Vertical	Peak	106.6710	29.66 *	106.28	86.28	56.63
Horizontal	Peak	106.6750	32.93 *	106.28	86.28	53.35
Horizontal	Peak	148.0990	32.47 *	106.28	86.28	53.82
Vertical	Peak	148.1180	31.80 *	106.28	86.28	54.49
Vertical	Peak	226.8819	25.50 *	106.28	86.28	60.78
Horizontal	Peak	226.8959	31.15 *	106.28	86.28	55.14
Horizontal	Quasi-Peak	249.9920	29.44	-	46.00	16.56
Vertical	Quasi-Peak	250.0309	17.90 *	-	46.00	28.10
Vertical	Peak	592.8040	31.10 *	106.28	86.28	55.19
Horizontal	Peak	592.8140	31.97 *	106.28	86.28	54.32
Horizontal	Peak	1499.9480	39.28 *	-	74.00	34.72
Horizontal	Average	1499.9480	32.80 *	-	54.00	21.20
Vertical	Peak	1500.1470	39.08 *	-	74.00	34.92
Vertical	Average	1500.1470	31.65 *	-	54.00	22.35

Temperature (°C) : 23.7 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Tue, 19 May, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

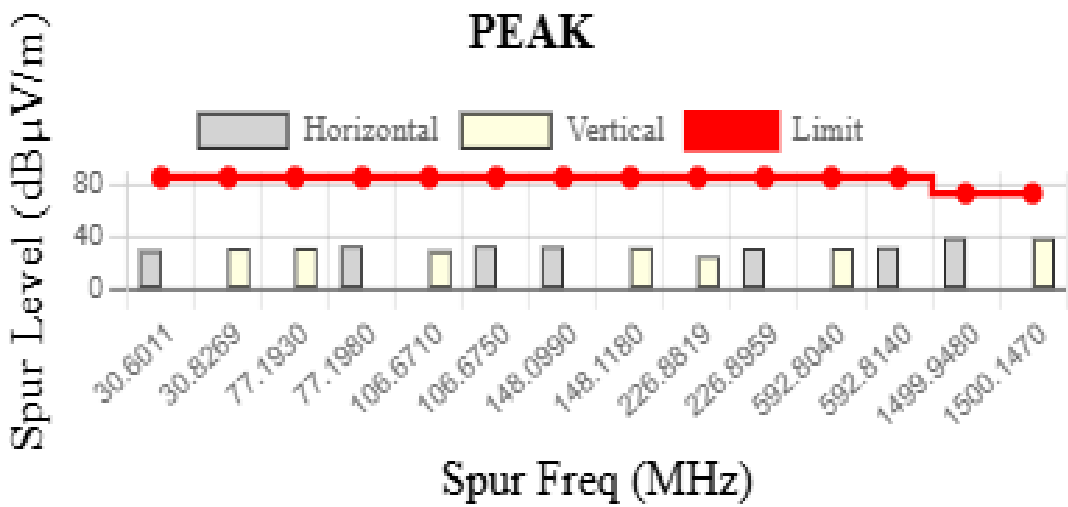
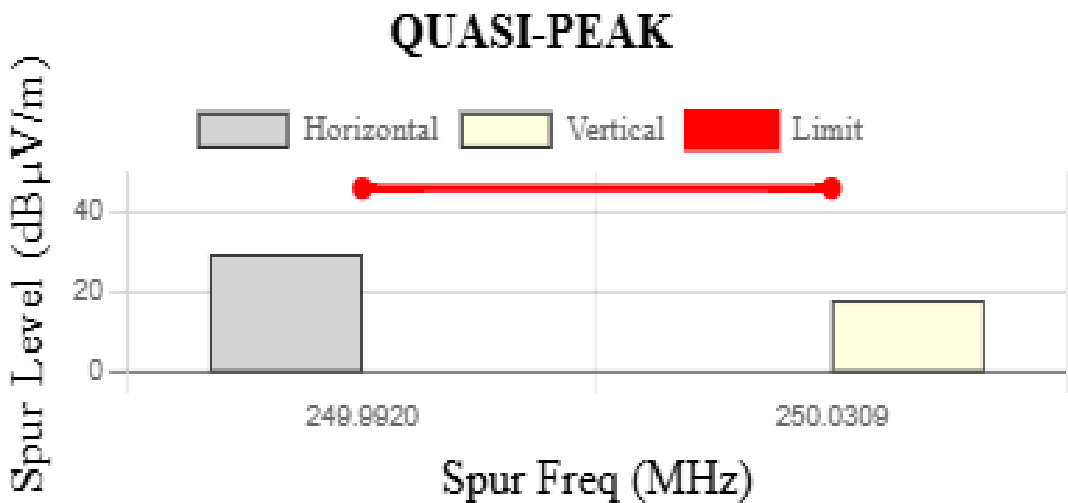
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

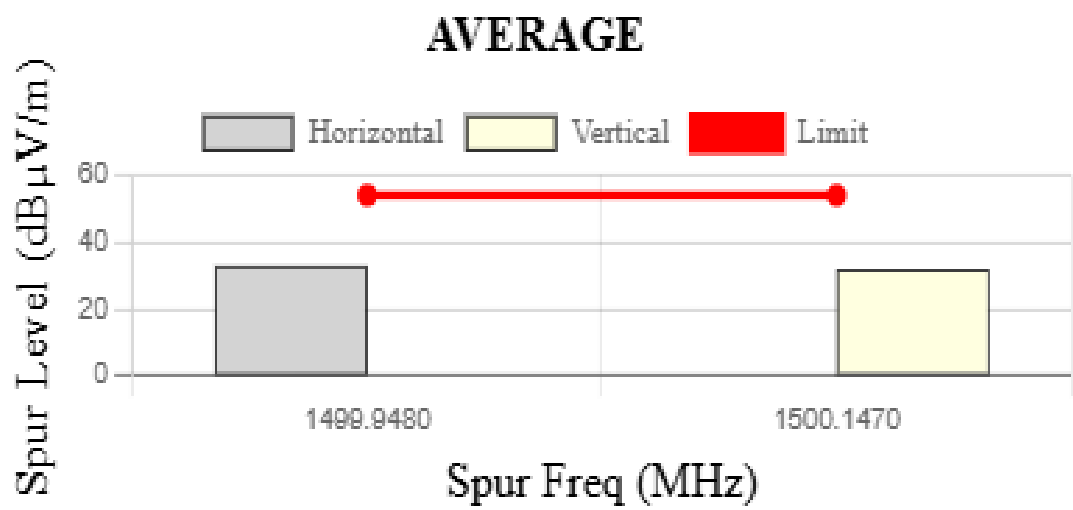
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.

2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





SAC TX Radiated Emission : 1470N00-EMC-00031

FCC ID : AZ492FT7191 IC : 109U-92FT7191
Model No : AAM29QNN9YA1AN Serial No : 008TCH0251
Battery : - Charger : -
Accessory : PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth 1000.0000 (kHz) :
Test Frequency (MHz) : 2480.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Quasi-Peak	74.5540	30.63	-	40.00	9.37
Vertical	Quasi-Peak	74.5620	31.30	-	40.00	8.70
Vertical	Peak	106.6660	29.76 *	106.28	86.28	56.53
Horizontal	Peak	106.6830	32.88 *	106.28	86.28	53.40
Vertical	Peak	148.1050	31.61 *	106.28	86.28	54.68
Horizontal	Peak	148.1070	31.86 *	106.28	86.28	54.42
Vertical	Peak	226.8839	25.83 *	106.28	86.28	60.46
Horizontal	Peak	226.9009	31.10 *	106.28	86.28	55.19
Vertical	Quasi-Peak	250.0050	18.65 *	-	46.00	27.35
Horizontal	Quasi-Peak	250.0269	29.39	-	46.00	16.61
Vertical	Peak	592.8030	31.99 *	106.28	86.28	54.30
Horizontal	Peak	592.8100	30.30 *	106.28	86.28	55.98

Temperature (°C) : 23.7 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Tue, 19 May, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

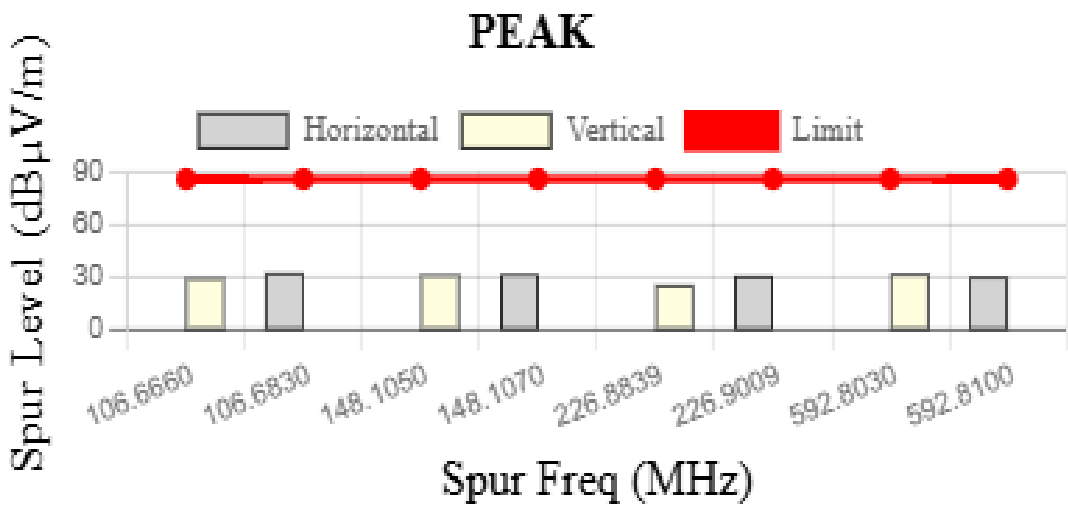
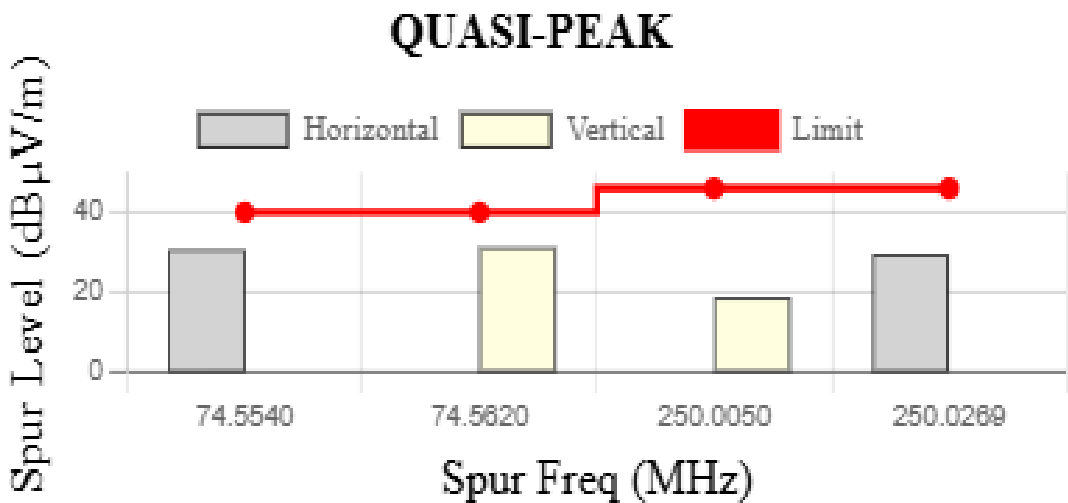
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.

2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1470N00-EMC-00031

FCC ID : AZ492FT7191 IC : 109U-92FT7191
Model No : AAM29QNN9YA1AN Serial No : 008TCH0251
Battery : - Charger : -
Accessory : PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth 2000.0000 (kHz) :
Test Frequency (MHz) : 2404.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Quasi-Peak	74.5480	30.38	-	40.00	9.62
Vertical	Quasi-Peak	74.5849	31.14	-	40.00	8.86
Horizontal	Peak	104.7459	32.58 *	106.28	86.28	53.71
Vertical	Peak	104.7479	29.58 *	106.28	86.28	56.70
Vertical	Peak	148.0870	31.40 *	106.28	86.28	54.89
Horizontal	Peak	148.1230	32.25 *	106.28	86.28	54.04
Vertical	Peak	226.8949	25.83 *	106.28	86.28	60.45
Horizontal	Peak	226.9099	30.97 *	106.28	86.28	55.31
Vertical	Quasi-Peak	250.0050	17.47 *	-	46.00	28.53
Horizontal	Quasi-Peak	250.0130	29.78	-	46.00	16.22
Horizontal	Peak	592.7940	29.35 *	106.28	86.28	56.94
Vertical	Peak	592.8080	32.05 *	106.28	86.28	54.24
Vertical	Peak	1499.9430	38.16 *	-	74.00	35.84
Vertical	Average	1499.9430	32.36 *	-	54.00	21.64
Horizontal	Peak	1500.0290	39.04 *	-	74.00	34.96
Horizontal	Average	1500.0290	34.46	-	54.00	19.54

Temperature (°C) : 23.7 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Tue, 19 May, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

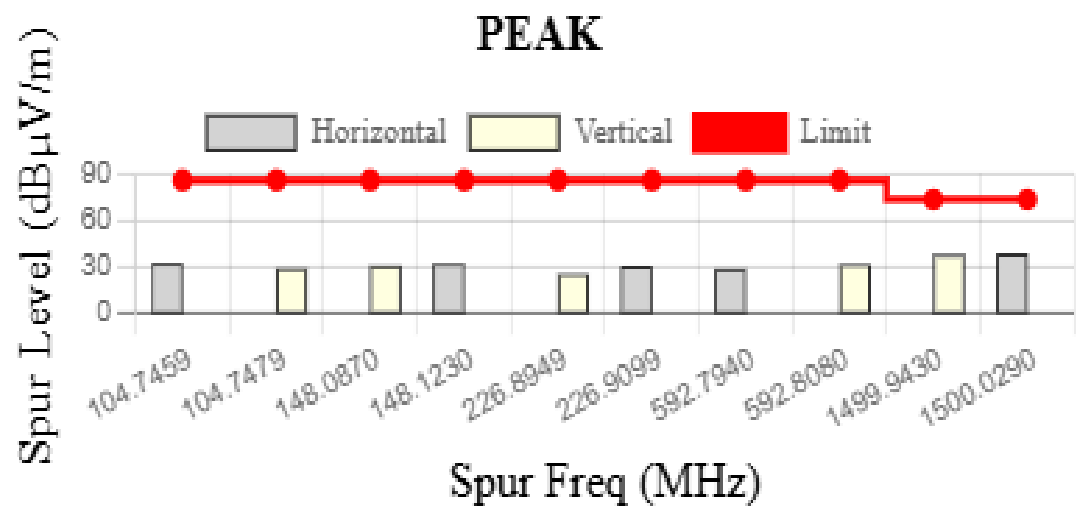
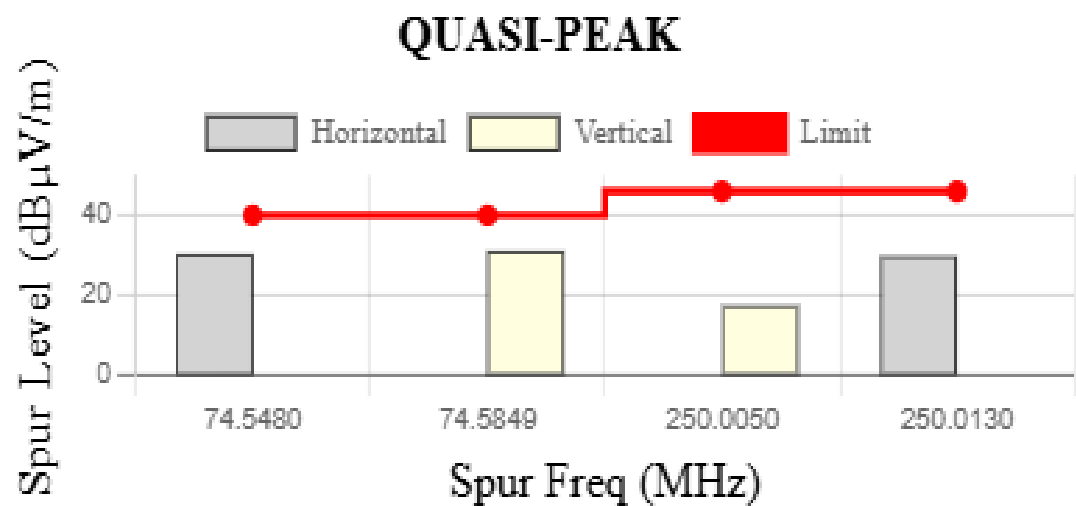
Remarks:

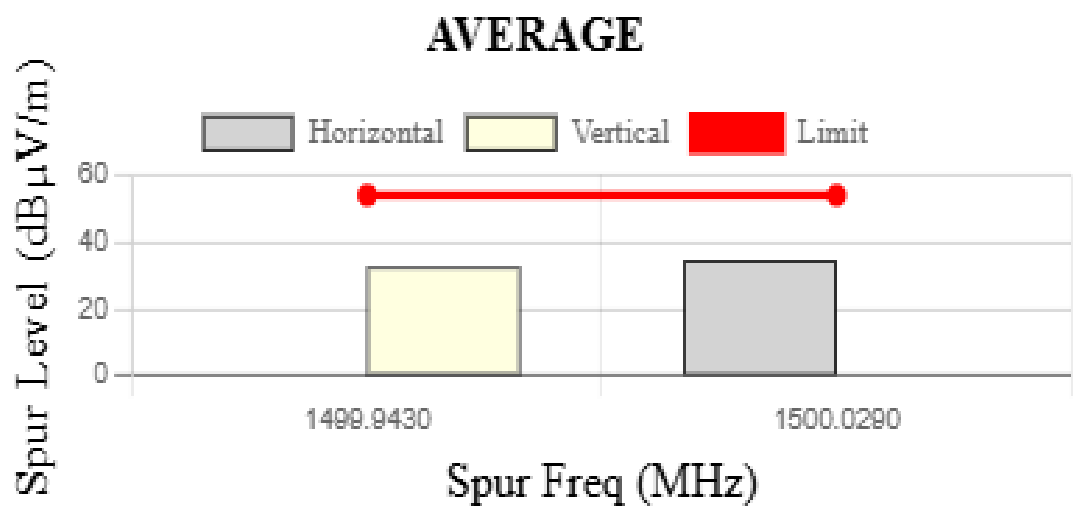
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





SAC TX Radiated Emission : 1470N00-EMC-00031

FCC ID : AZ492FT7191 IC : 109U-92FT7191
Model No : AAM29QNN9YA1AN Serial No : 008TCH0251
Battery : - Charger : -
Accessory : PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth 2000.0000 (kHz) :
Test Frequency (MHz) : 2440.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dB μ V/m)	Carrier Power (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Vertical	Quasi-Peak	74.5580	31.52	-	40.00	8.48
Horizontal	Quasi-Peak	74.5670	31.00	-	40.00	9.00
Vertical	Peak	77.2000	32.85 *	106.28	86.28	53.43
Horizontal	Peak	77.2040	33.26 *	106.28	86.28	53.03
Vertical	Peak	106.6790	29.58 *	106.28	86.28	56.70
Horizontal	Peak	106.6800	32.96 *	106.28	86.28	53.32
Vertical	Peak	148.1160	31.54 *	106.28	86.28	54.74
Horizontal	Peak	148.1300	32.92 *	106.28	86.28	53.37
Horizontal	Peak	226.8989	31.43 *	106.28	86.28	54.86
Vertical	Peak	226.9379	25.52 *	106.28	86.28	60.76
Vertical	Quasi-Peak	250.0000	17.97 *	-	46.00	28.03
Horizontal	Quasi-Peak	250.0249	29.81	-	46.00	16.19
Vertical	Peak	592.7860	31.61 *	106.28	86.28	54.67
Horizontal	Peak	592.8310	30.05 *	106.28	86.28	56.23

Temperature (°C) : 23.7 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Tue, 19 May, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

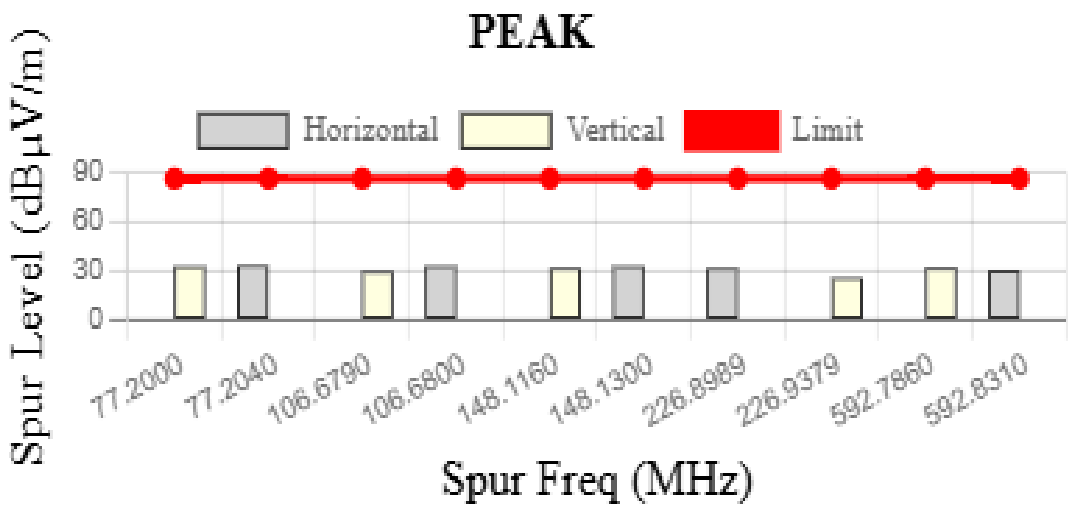
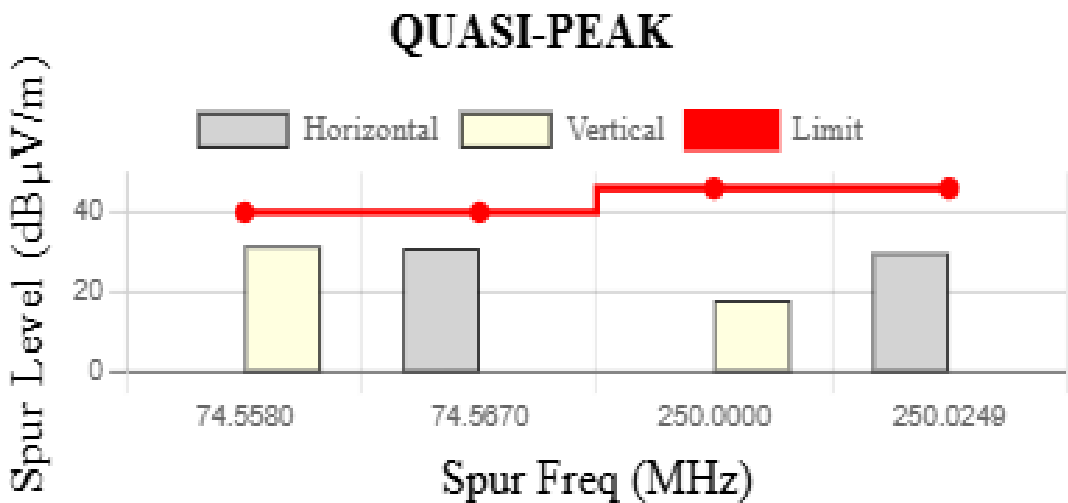
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.

2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1470N00-EMC-00031

FCC ID : AZ492FT7191 IC : 109U-92FT7191
Model No : AAM29QNN9YA1AN Serial No : 008TCH0251
Battery : - Charger : -
Accessory : PMAE4032B, PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000280A02-CF1, PMLN5072A, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth 2000.0000 (kHz) :
Test Frequency (MHz) : 2478.0000 Softpot Power : 10.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 +
Errata to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dB μ V/m)	Carrier Power (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Horizontal	Quasi-Peak	74.5800	30.34	-	40.00	9.66
Vertical	Quasi-Peak	74.5829	31.36	-	40.00	8.64
Horizontal	Peak	106.6840	32.97 *	106.28	86.28	53.31
Vertical	Peak	106.6940	29.57 *	106.28	86.28	56.72
Horizontal	Peak	148.0860	32.57 *	106.28	86.28	53.72
Vertical	Peak	148.1070	32.04 *	106.28	86.28	54.25
Vertical	Peak	226.8889	25.98 *	106.28	86.28	60.30
Horizontal	Peak	226.9099	31.46 *	106.28	86.28	54.82
Horizontal	Quasi-Peak	250.0030	30.24	-	46.00	15.76
Vertical	Quasi-Peak	250.0459	16.87 *	-	46.00	29.13
Vertical	Peak	592.8150	31.57 *	106.28	86.28	54.72
Horizontal	Peak	592.8150	30.38 *	106.28	86.28	55.91
Horizontal	Peak	1500.0650	39.12 *	-	74.00	34.88
Horizontal	Average	1500.0650	33.82 *	-	54.00	20.18
Vertical	Peak	1500.1050	38.11 *	-	74.00	35.89
Vertical	Average	1500.1050	33.35 *	-	54.00	20.65

Temperature (°C) : 23.7 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Tue, 19 May, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

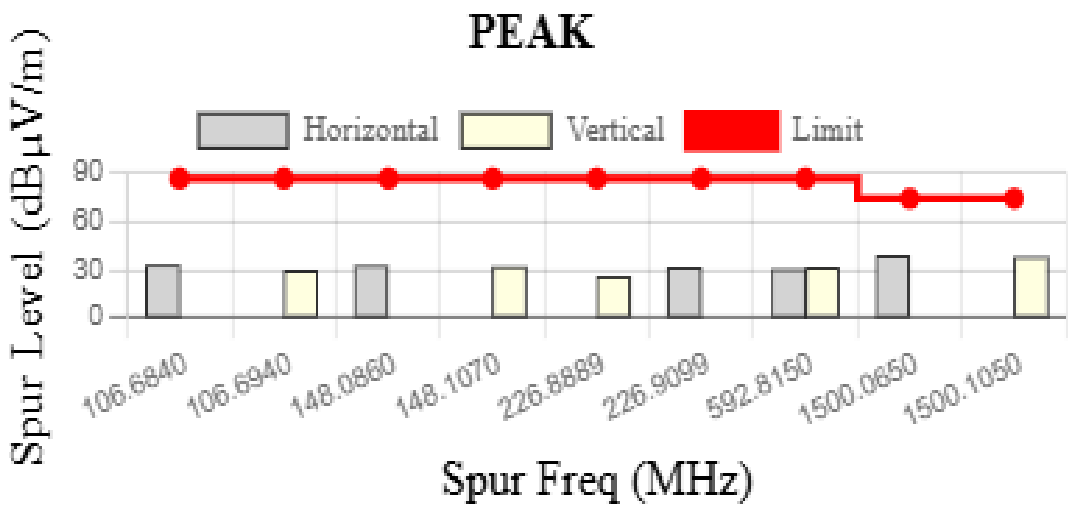
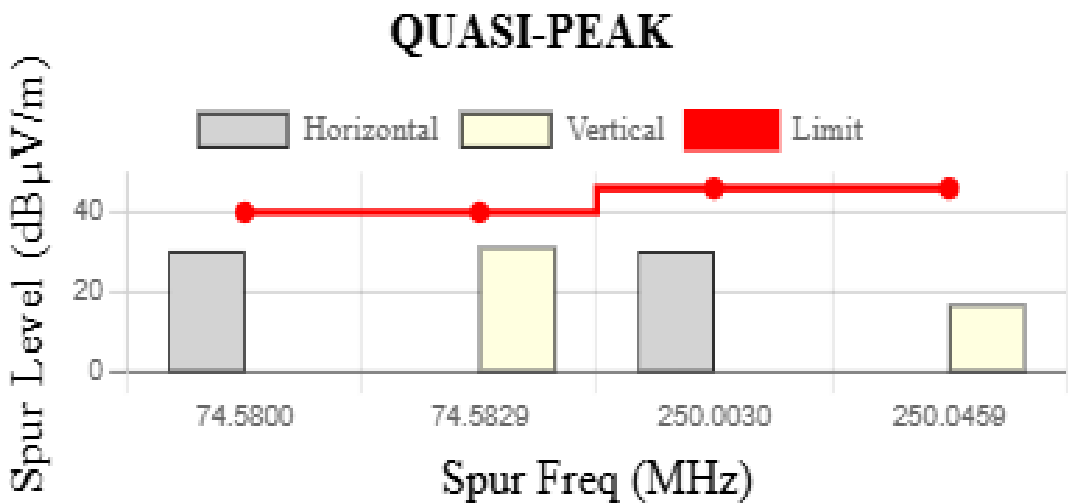
Remarks:

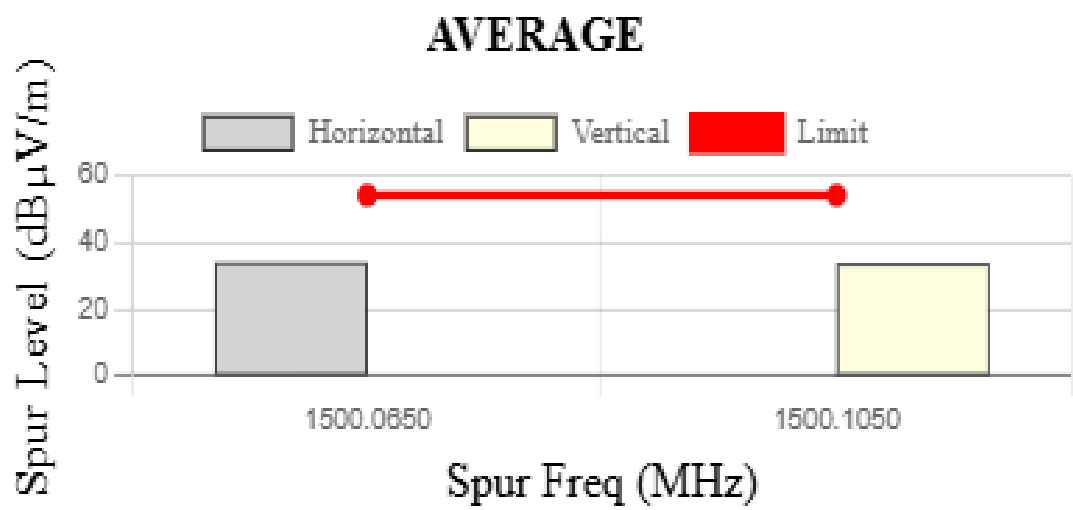
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

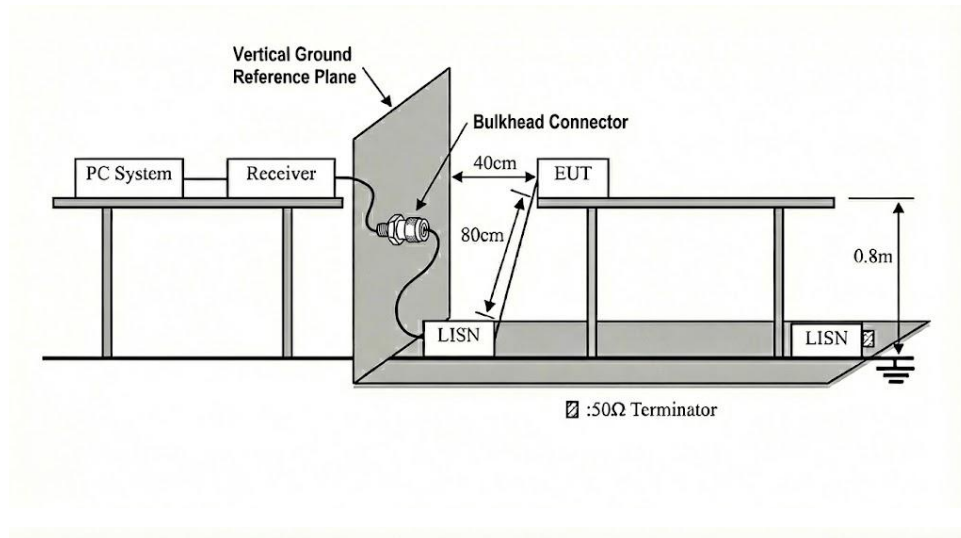
- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





6.7 AC Powerline Conducted Emission

6.7.1 Test Setup



- 1) Tests were conducted for both Receive and Transmit Mode of the EUT.
- 2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN) and connected to test receiver. All other EUT support units power cords were connected to the power mains through another LISN terminated with 50 ohm loads.
- 3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 4) The frequency range from 150 kHz to 30MHz was measured.

6.7.2 Test Limits:

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

**Limits for conducted disturbance at the mains ports
of class A ITE**

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60

NOTE The lower limit shall apply at the transition frequency.

Table 1: Limits for Conducted Disturbance at the Mains Ports of Class A ITE.

**Limits for conducted disturbance at the mains ports
of class B ITE**

Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies.		
NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

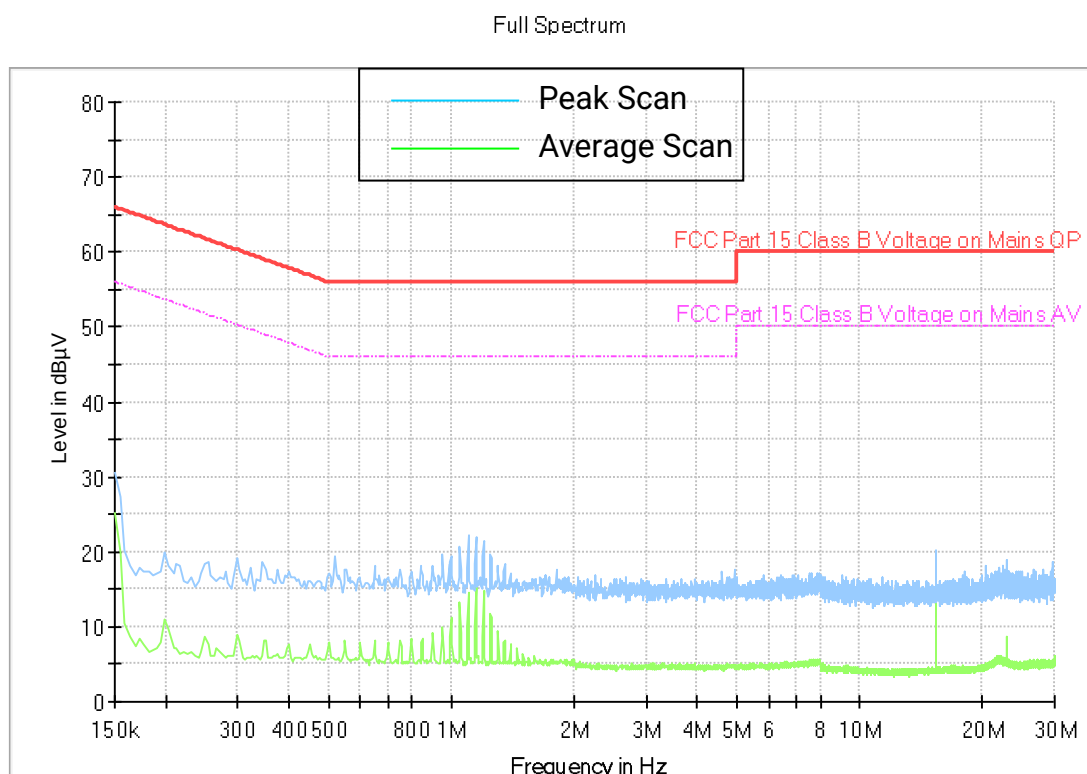
Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

6.7.3 Test Result

Report ID: 1470N00-EMC-00031
Temperature: 19.3 °C
Humidity: 56.7 %RH
Tester: Helmy
Date of Test: 17 May 2026

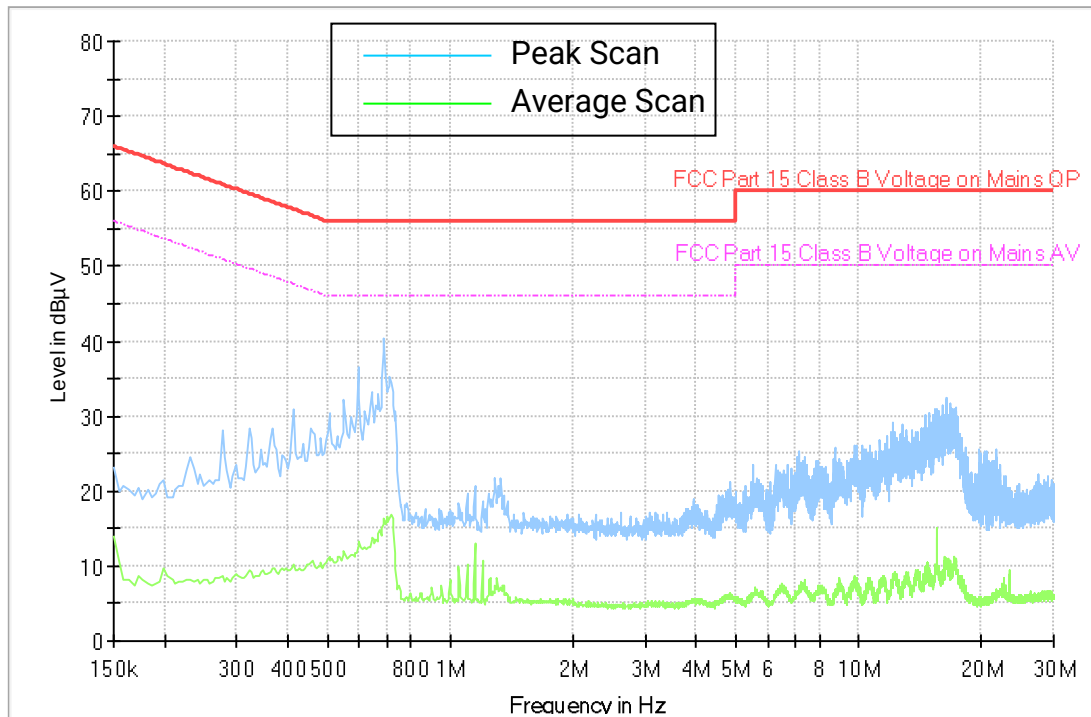
120VAC, 60Hz

1) Ambient



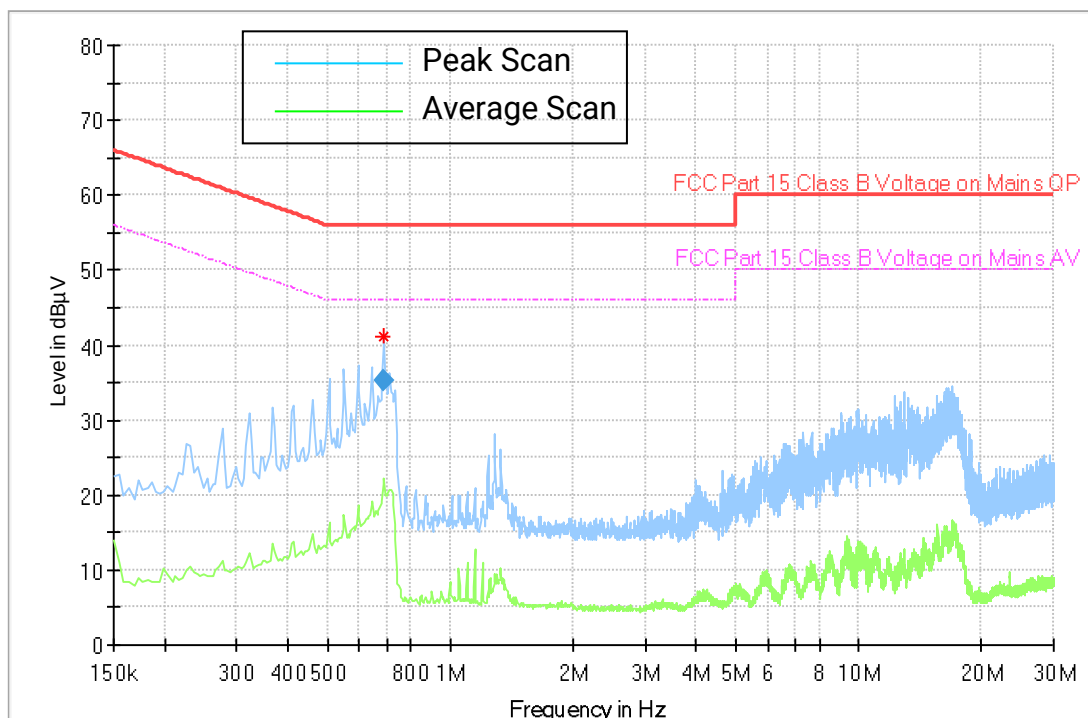
2) PSU Alone

Full Spectrum



3) PSU + Radio Off

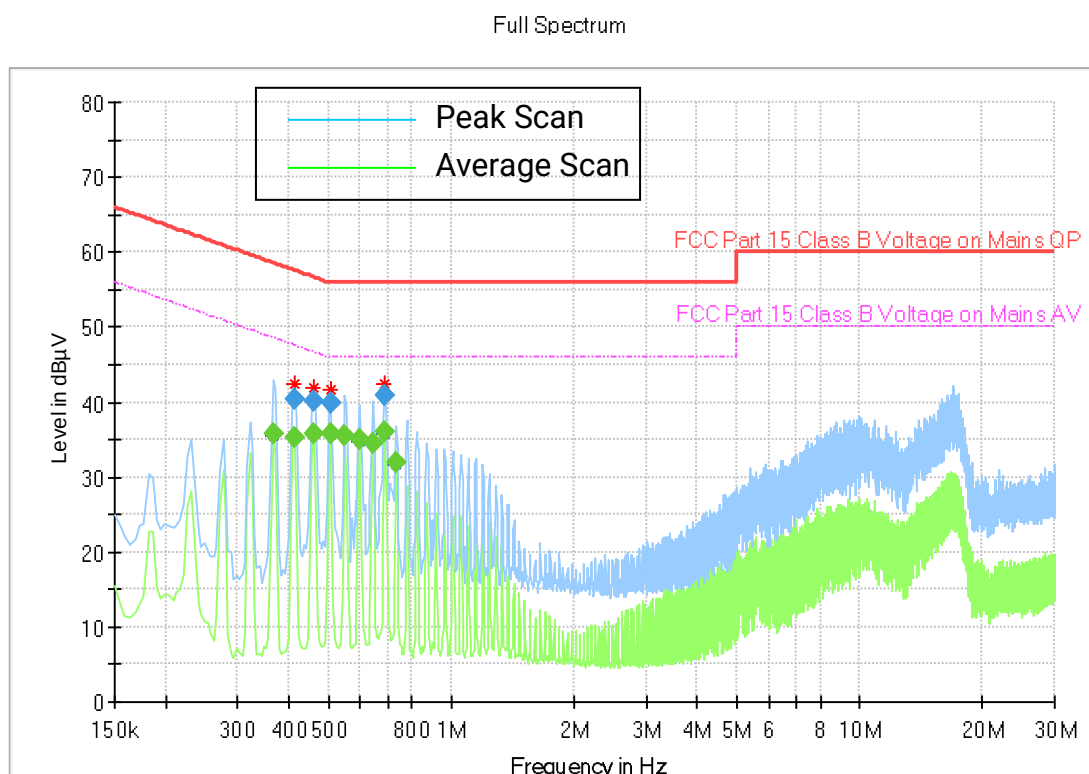
Full Spectrum



QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.690000	35.19	---	56.00	20.81	L1	ON	9.9

4) PSU + Radio Standby

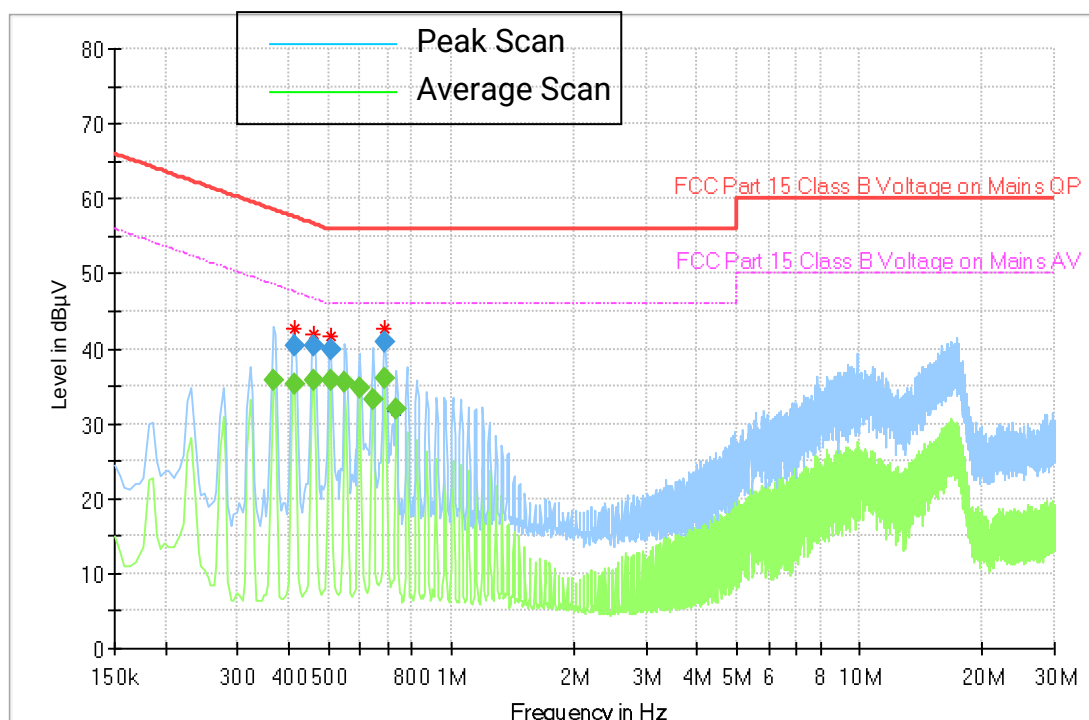


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.366000	---	35.76	48.59	12.83	N	ON	10.0
0.415500	---	35.23	47.54	12.31	N	ON	10.0
0.415500	40.28	---	57.54	17.26	N	ON	10.0
0.460500	40.23	---	56.68	16.45	L1	ON	10.0
0.460500	---	35.89	46.68	10.79	N	ON	10.0
0.505500	39.99	---	56.00	16.01	N	ON	10.0
0.505500	---	35.87	46.00	10.13	N	ON	10.0
0.550500	---	35.55	46.00	10.45	N	ON	10.0
0.595500	---	34.90	46.00	11.10	L1	ON	10.0
0.640500	---	34.54	46.00	11.46	L1	ON	10.0
0.690000	---	35.93	46.00	10.07	N	ON	9.9
0.690000	40.94	---	56.00	15.06	L1	ON	9.9
0.735000	---	31.89	46.00	14.11	N	ON	9.9

5) PSU + Radio (Bluetooth LE1M Transmit, CH: 2402, Mod: GFSK)

Full Spectrum

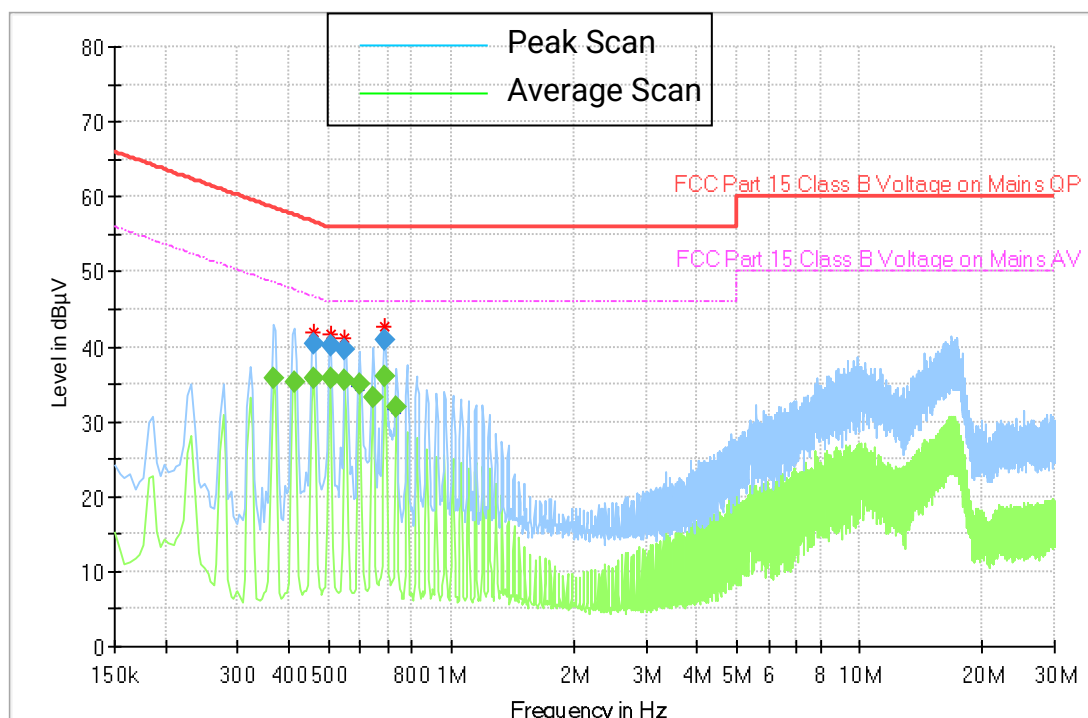


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.366000	---	35.83	48.59	12.77	N	ON	10.0
0.415500	---	35.26	47.54	12.28	N	ON	10.0
0.415500	40.29	---	57.54	17.25	N	ON	10.0
0.460500	---	35.87	46.68	10.81	N	ON	10.0
0.460500	40.31	---	56.68	16.38	N	ON	10.0
0.505500	---	35.86	46.00	10.14	N	ON	10.0
0.505500	39.98	---	56.00	16.02	L1	ON	10.0
0.550500	---	35.54	46.00	10.46	N	ON	10.0
0.595500	---	34.89	46.00	11.11	N	ON	10.0
0.645000	---	33.22	46.00	12.78	L1	ON	9.9
0.690000	---	35.99	46.00	10.01	N	ON	9.9
0.690000	40.98	---	56.00	15.02	L1	ON	9.9
0.735000	---	31.85	46.00	14.15	N	ON	9.9

6) PSU + Radio (Bluetooth LE2M Transmit, CH: 2404, Mod: GFSK)

Full Spectrum



QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.366000	---	35.88	48.59	12.71	N	ON	10.0
0.415500	---	35.30	47.54	12.24	N	ON	10.0
0.460500	40.35	---	56.68	16.34	N	ON	10.0
0.460500	---	35.87	46.68	10.81	N	ON	10.0
0.505500	40.03	---	56.00	15.97	N	ON	10.0
0.505500	---	35.86	46.00	10.14	N	ON	10.0
0.550500	---	35.51	46.00	10.49	L1	ON	10.0
0.550500	39.59	---	56.00	16.41	N	ON	10.0
0.595500	---	34.90	46.00	11.10	N	ON	10.0
0.645000	---	33.24	46.00	12.76	L1	ON	9.9
0.690000	---	36.00	46.00	10.00	N	ON	9.9
0.690000	40.94	---	56.00	15.06	N	ON	9.9
0.735000	---	31.84	46.00	14.16	N	ON	9.9

END OF TEST REPORT