

 MOTOROLA SOLUTIONS	  																																				
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>: 6-April-2026 - 20-April-2026</td></tr><tr><td>Report Issue Date</td><td>: 20-April-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>: SUBRAMANIAM VASU</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>: AAM29JNN9YA1AN</td></tr><tr><td>Frequency Band</td><td>: 2.402 - 2.480 GHz</td></tr><tr><td>Max RF Output Power</td><td>: 11.22 mWatts</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	: 6-April-2026 - 20-April-2026	Report Issue Date	: 20-April-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	: SUBRAMANIAM VASU	Product Type	: Mobile / Vehicle Mount	Product Marketing Name (PMN)	: MR7r	Hardware Version Identification Number (HVIN)	: AAM29JNN9YA1AN	Frequency Band	: 2.402 - 2.480 GHz	Max RF Output Power	: 11.22 mWatts	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 NUR HIDAYATI 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	20-April-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 132-174 3DB GAIN	MOTOROLA	HAD4022A
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

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 - 1.05 MHz (1M05F1D) BT 5.0 - 2.07 MHz (2M07F1D)	008TCF1506	Hidayati
15.247 (b)(3)	RSS 247 5.4 (d)	Conducted RF Output Power (Peak)	Pass	Highest output power: BT 4.0 - 9.736 dBm (9.41mW) BT 5.0 - 9.738 dBm (9.41mW)	008TCF1506	Hidayati
15.247(e)	RSS 247 5.2 (b)	Maximum Peak Power Spectral Density	Pass	Meet the limit requirement.	008TCF1506	Hidayati
15.247 (d)	RSS-247 5.5	Band-Edge Conducted Spurious Emission	Pass	Worst case emission: -48.87 dBm	008TCF1506	Hidayati
15.247 (b)	RSS-247 5.5	Conducted Spurious Emission	Pass	Worst case emission: -38.51 dBm	008TCF1506	Hidayati
15.205, 15.209, 15.247 (d)	RSS247 5.5	Radiated Emission within Restricted Bands	Pass	Worst case emission: RBE: 47.25dBuV/m (Margin: 6.75 dB) RSE: 31.08 dBuV/m (Margin: 8.92 dB)	008TCF1512	Nazrin & Fuad
15.207	RSS-Gen 8.8	AC Power Line Conducted Spurious Emission	Pass	Meet the limit requirement.	008TCF1512	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_3.2.2)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
CHAMBER	SH-641	92003820	9-Jul-25	9-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 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	No Cal. Req'd	No Cal. Req'd
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	No Cal. Req'd	No Cal. Req'd
TURNTABLE FLUSH MOUNT 2M	FM2011	FM2011-001	No Cal. Req'd	No Cal. Req'd
ANTENNA POSITIONING TOWER	TLT2	090308-5	No Cal. Req'd	No Cal. Req'd
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	30-Sep-25	30-Sep-26
PREAMPLIFIER 18-40GHz	JS44-18004000-33-8P	2034566	No Cal. Req'd	No Cal. Req'd
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-2025	16-Jul-2026
V-NETWORK 2-LINE	ENV216	101268	30-Jun-2025	30-Jun-2026
EMI TEST RECEIVER	ESCI 3	100225	4-Sep-2025	4-Sep-2026
PROGRAMMABLE AC SOURCE	61604	ABR000000926	20-Aug-2025	20-Aug-2026

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	23.6°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	23.6°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	22.2°C, 64.4%RH

Antenna Port Conducted Measurement:

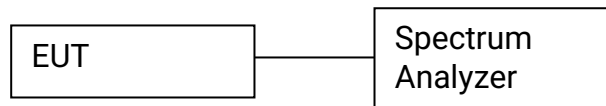
- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ 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 different of two frequencies that were attenuated 6dB from peak of the emission & record the frequency difference as the emission bandwidth.

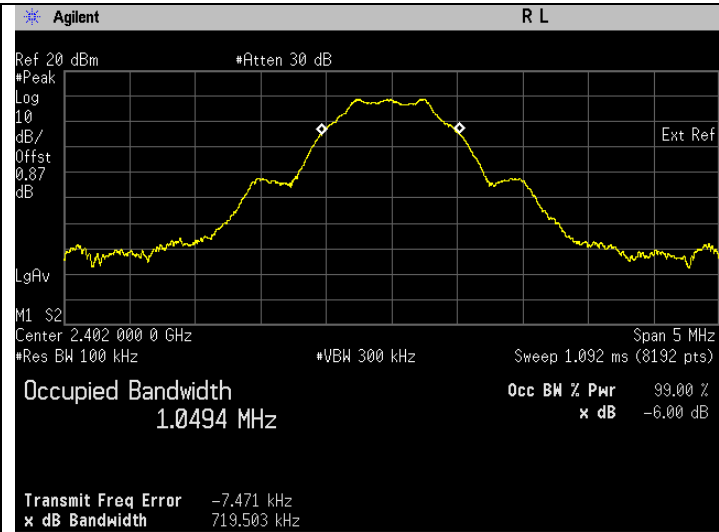
6.1.2 Test Limits:

Normal Condition (25 ° C)
≥500 kHz

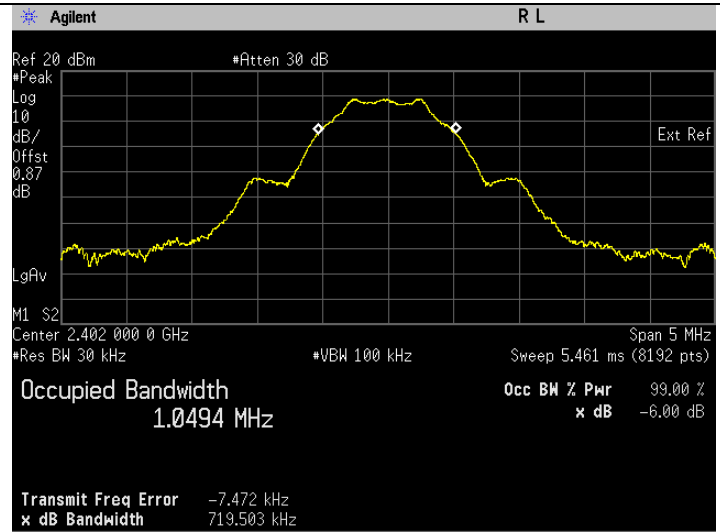
6.1.3 Test Data:

BTLE 1M

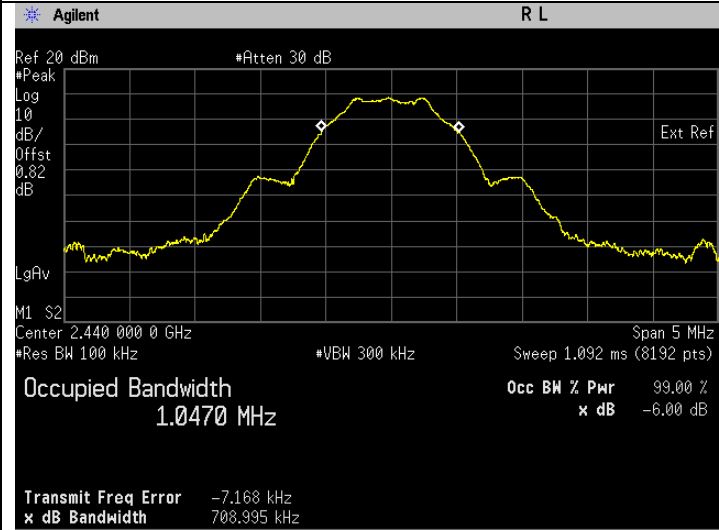
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Status
Bluetooth LE	1	2402	0.72	1.05	Pass
Bluetooth LE	1	2440	0.71	1.05	Pass
Bluetooth LE	1	2480	0.71	1.04	Pass



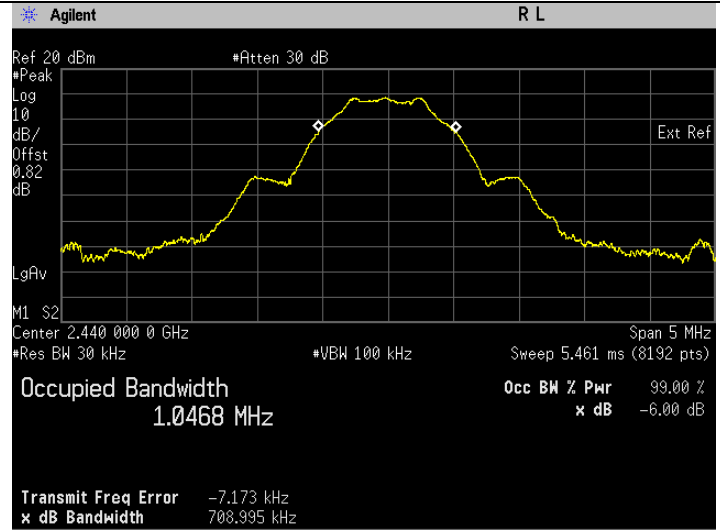
6dB Bandwidth. Bluetooth LE Frequency 2402 MHz



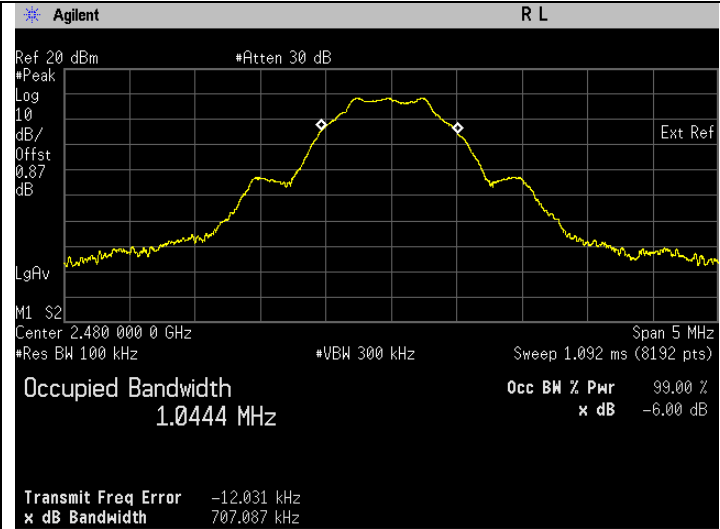
99% Bandwidth. Bluetooth LE Frequency 2402 MHz.



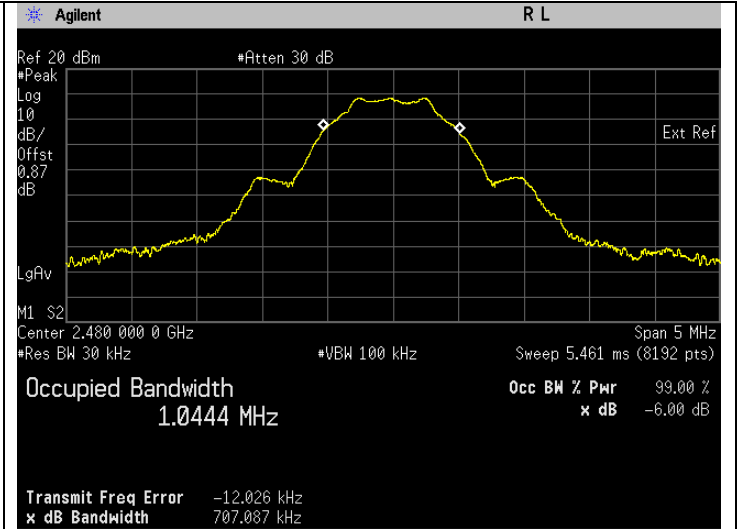
6dB Bandwidth. Bluetooth LE Frequency 2440 MHz



99% Bandwidth. Bluetooth LE Frequency 2440 MHz.



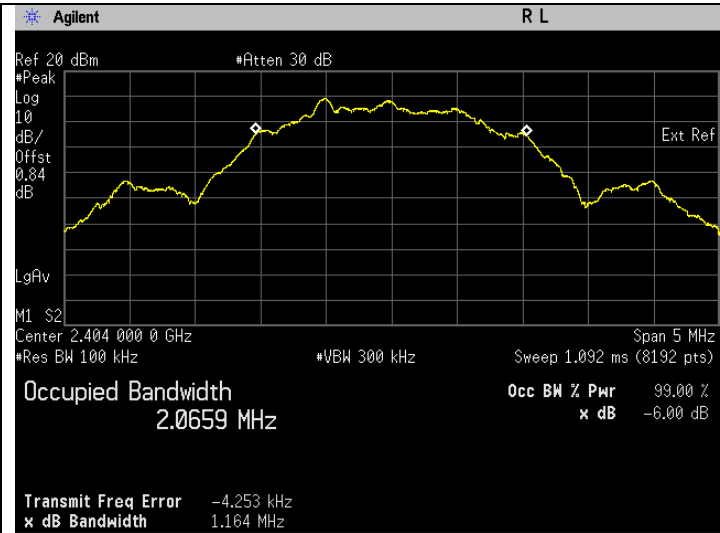
6dB Bandwidth. Bluetooth LE Frequency 2480 MHz



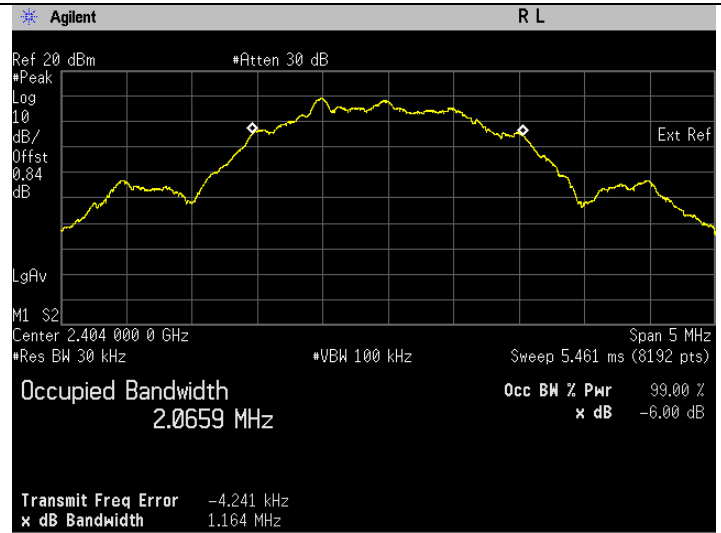
99% Bandwidth. Bluetooth LE Frequency 2480 MHz.

BTLE 2M

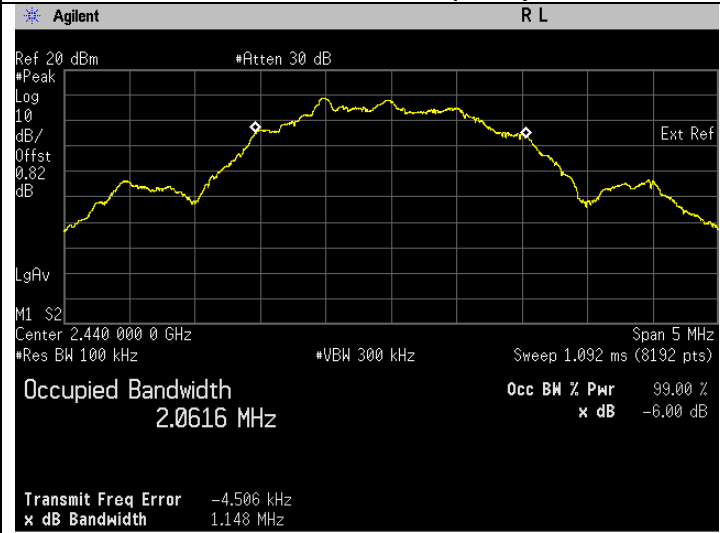
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Status
Bluetooth LE	2	2404	1.16	2.07	Pass
Bluetooth LE	2	2440	1.15	2.06	Pass
Bluetooth LE	2	2478	1.17	2.06	Pass



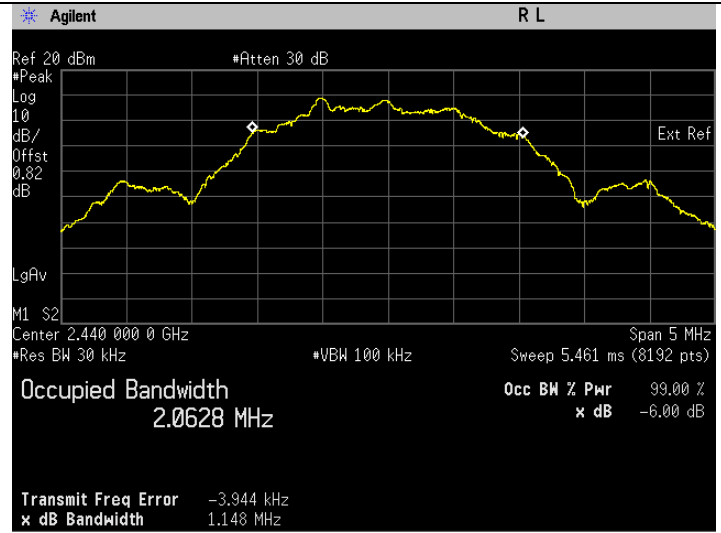
6dB Bandwidth. Bluetooth LE Frequency 2402 MHz



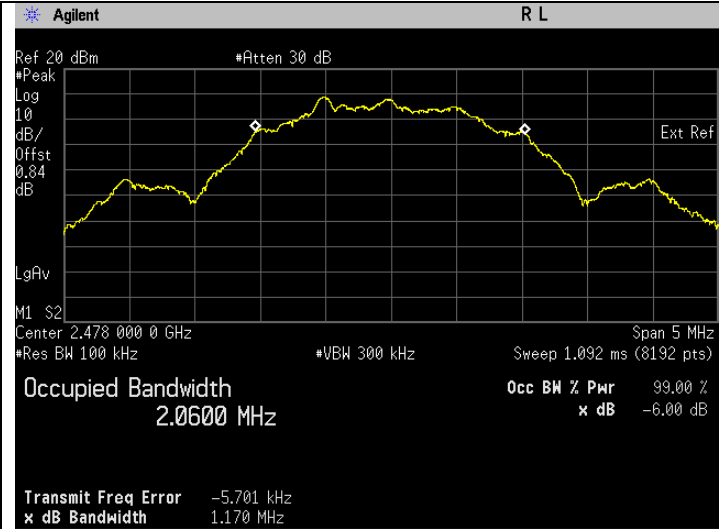
99% Bandwidth. Bluetooth LE Frequency 2404 MHz.



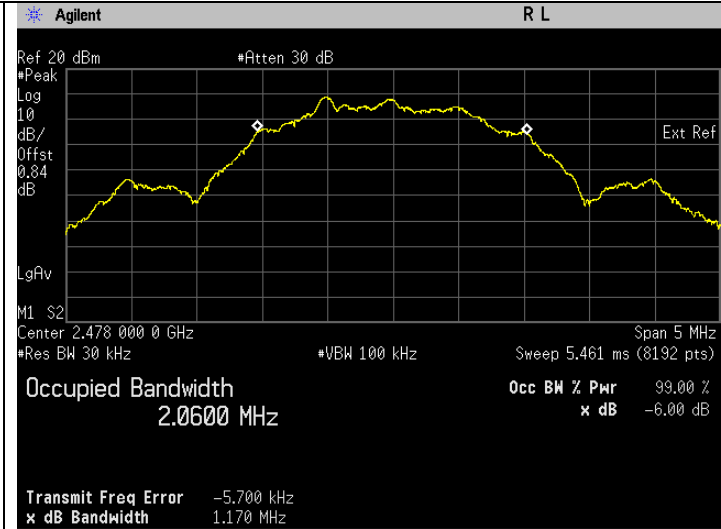
6dB Bandwidth. Bluetooth LE Frequency 2440 MHz



99% Bandwidth. Bluetooth LE Frequency 2440 MHz.



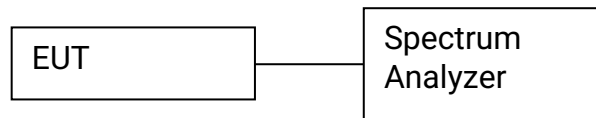
6dB Bandwidth. Bluetooth LE Frequency 2478 MHz



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.

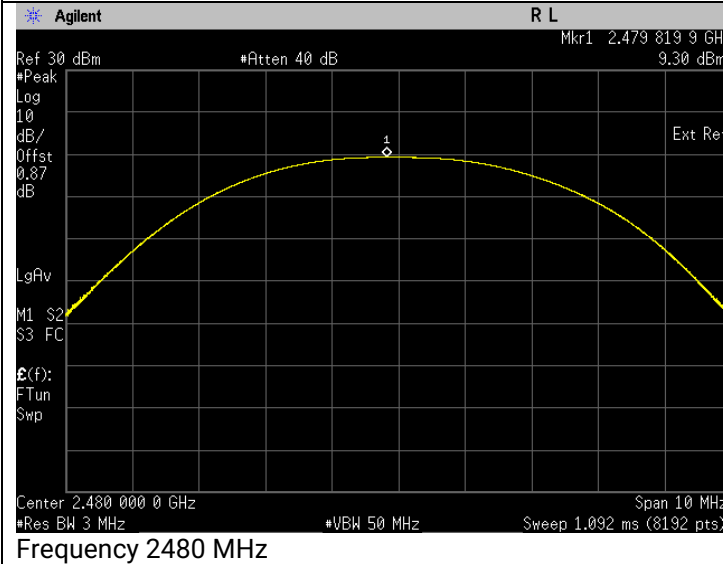
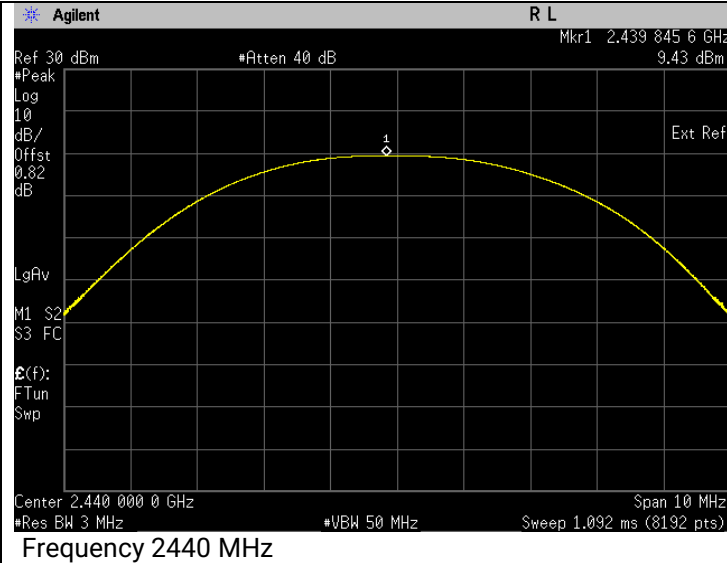
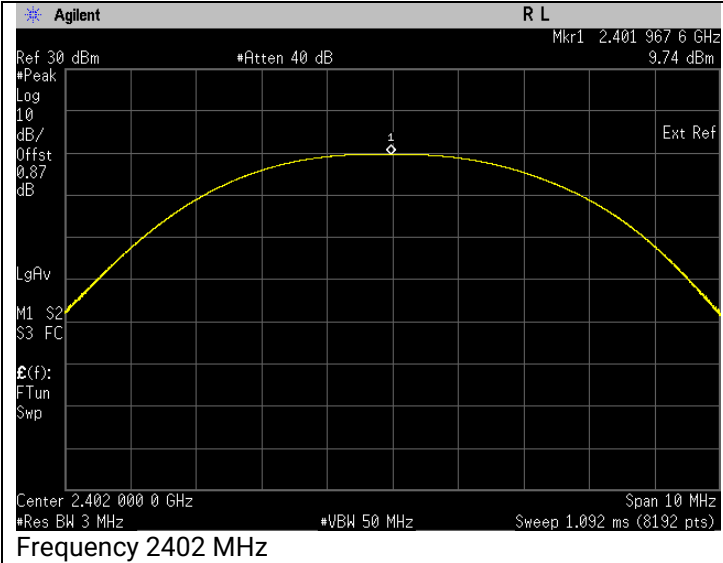
6.2.2 Test Limits:

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

6.2.3 Test Data:

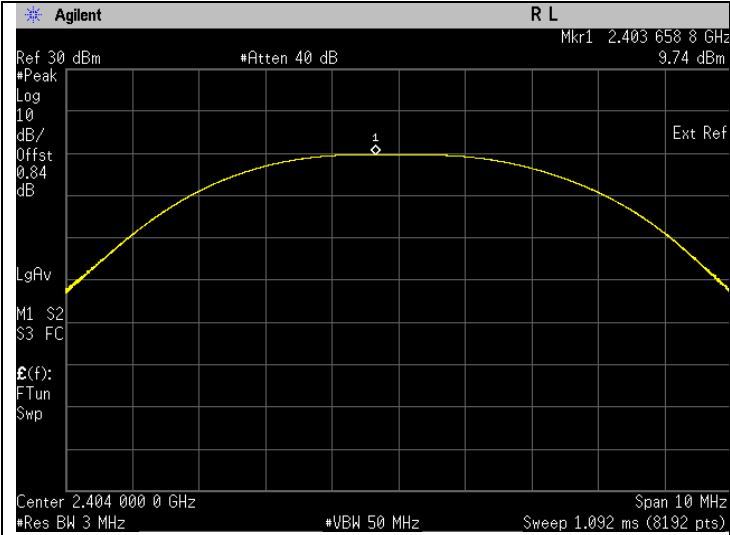
BTLE 1M

Test Conditions		Test Frequency	Results	
Standard	Data Rate	Tx (MHz)	Output Power (dBm)	Status
Bluetooth LE	1	2402	9.736	Pass
Bluetooth LE	1	2440	9.427	Pass
Bluetooth LE	1	2480	9.301	Pass

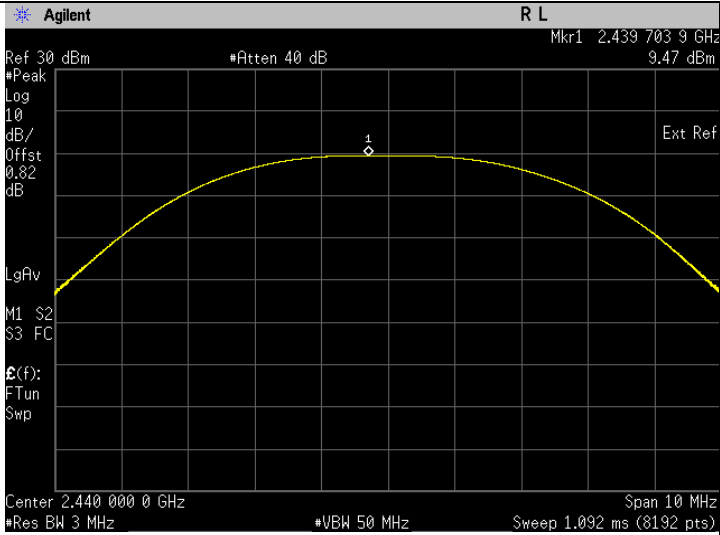


BTLE 2M

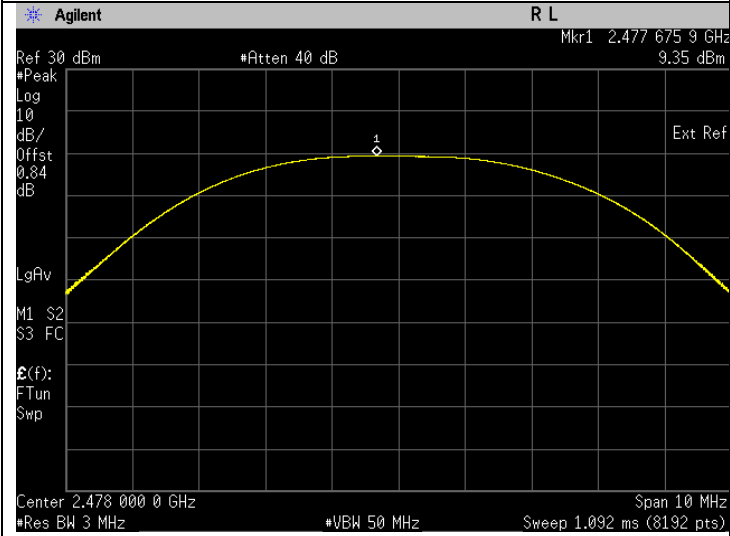
Test Conditions		Test Frequency	Results	
Standard	Data Rate	Tx (MHz)	Output Power (dBm)	Status
Bluetooth LE	2	2404	9.738	Pass
Bluetooth LE	2	2440	9.467	Pass
Bluetooth LE	2	2478	9.352	Pass



Frequency 2404 MHz



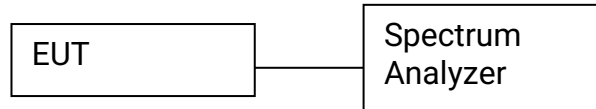
Frequency 2440 MHz



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.

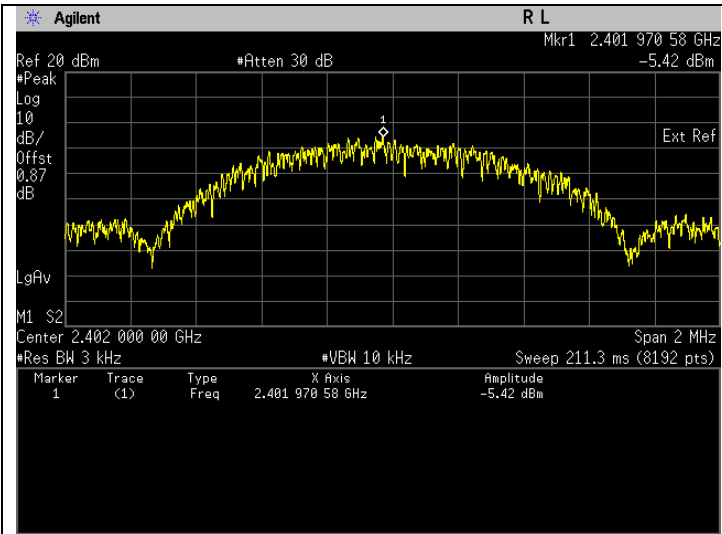
6.3.2 Test Limits:

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

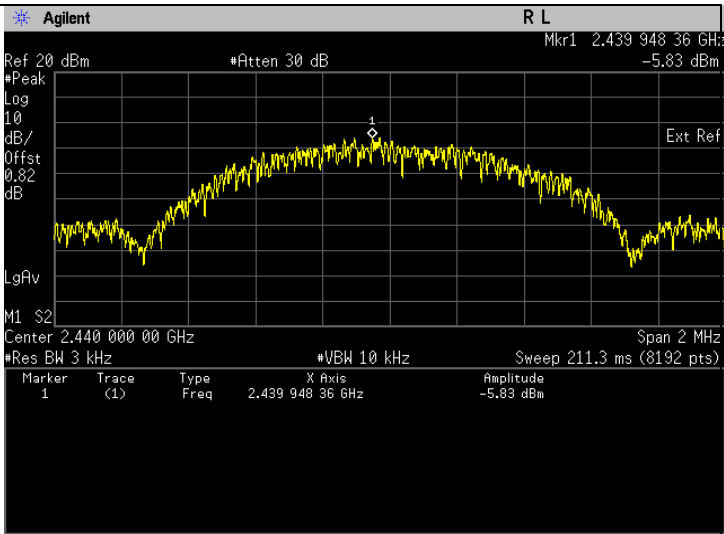
6.3.3 Test Result

BTLE 1M

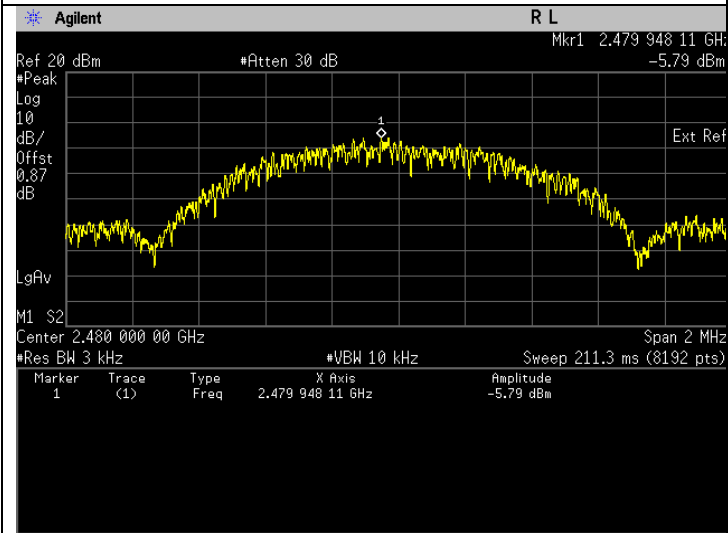
Test Conditions		Test Frequency	Results	
Standard	Data Rate	Tx (MHz)	Power (dBm/3kHz)	Status
Bluetooth LE	1	2402	-5.42	Pass
Bluetooth LE	1	2440	-5.83	Pass
Bluetooth LE	1	2480	-5.79	Pass



Maximum Power Spectral Density. Bluetooth LE Frequency 2402 MHz.



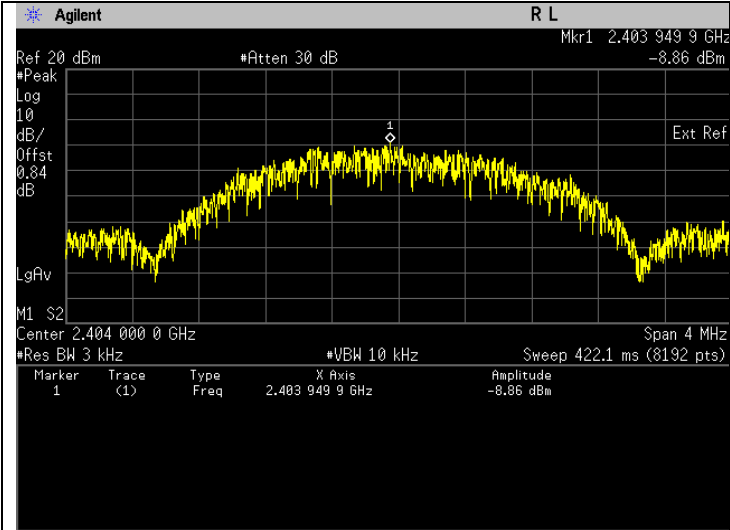
Maximum Power Spectral Density. Bluetooth LE Frequency 2440 MHz.



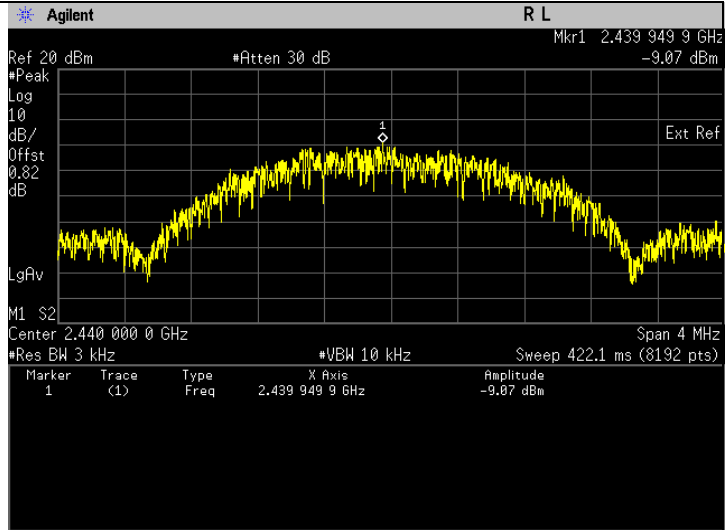
Maximum Power Spectral Density. Bluetooth LE Frequency 2480 MHz.

BTLE 2M

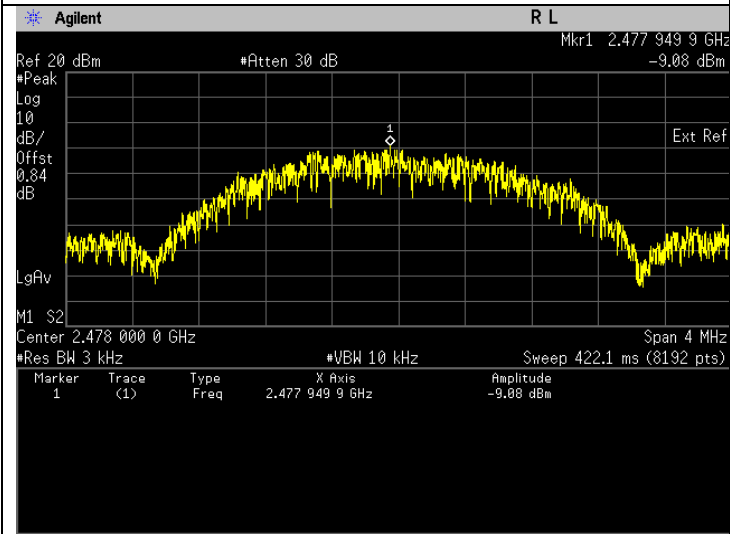
Test Conditions		Test Frequency	Results	
Standard	Data Rate	Tx (MHz)	Power (dBm/3kHz)	Status
Bluetooth LE	2	2404	-8.86	Pass
Bluetooth LE	2	2440	-9.07	Pass
Bluetooth LE	2	2478	-9.08	Pass



Maximum Power Spectral Density. Bluetooth LE Frequency 2404 MHz.



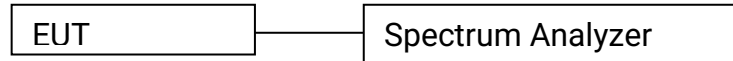
Maximum Power Spectral Density. Bluetooth LE Frequency 2440 MHz.



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.

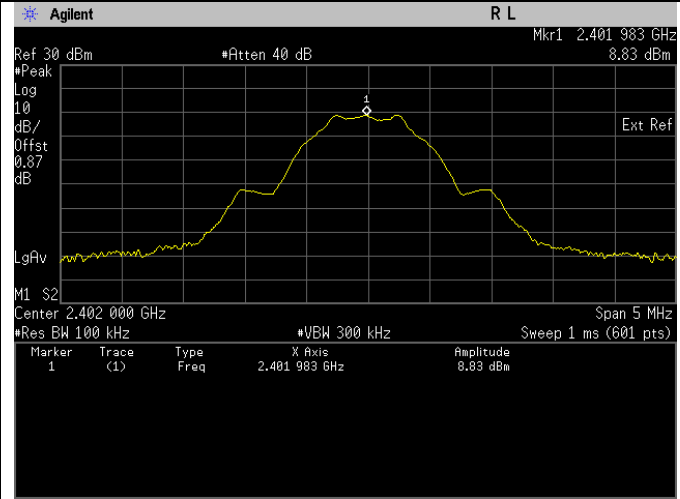
6.4.2 Test Limits:

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

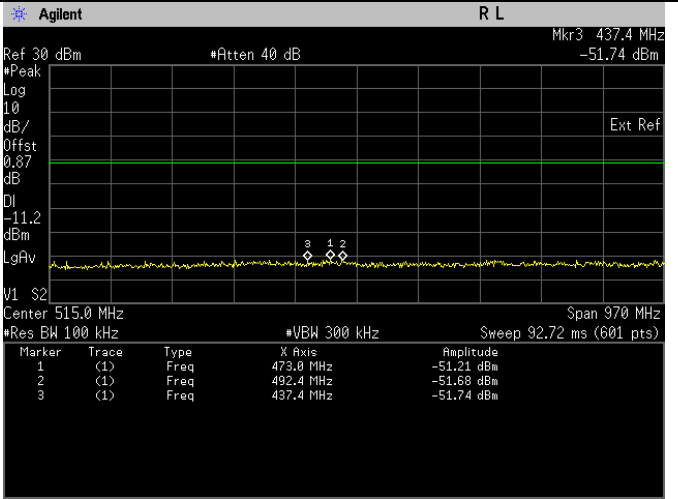
6.4.3 Test Result

BTLE 1M

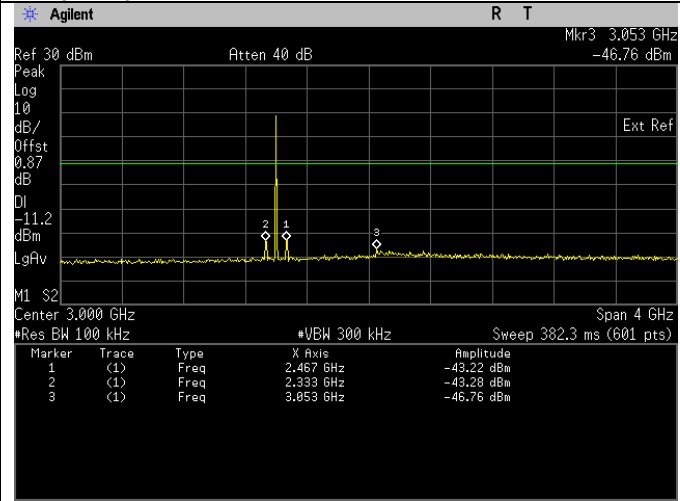
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	Spurs (MHz)	Level (dBm)	Status
Bluetooth LE	1	2402	24958.00	-43.11	Pass
			24325.00	-43.18	Pass
			24300.00	-43.19	Pass
Bluetooth LE	1	2440	24900.00	-43.12	Pass
			22750.00	-43.40	Pass
			24000.00	-43.43	Pass
Bluetooth LE	1	2480	24983.00	-42.57	Pass
			24717.00	-42.73	Pass
			2407.00	-42.77	Pass



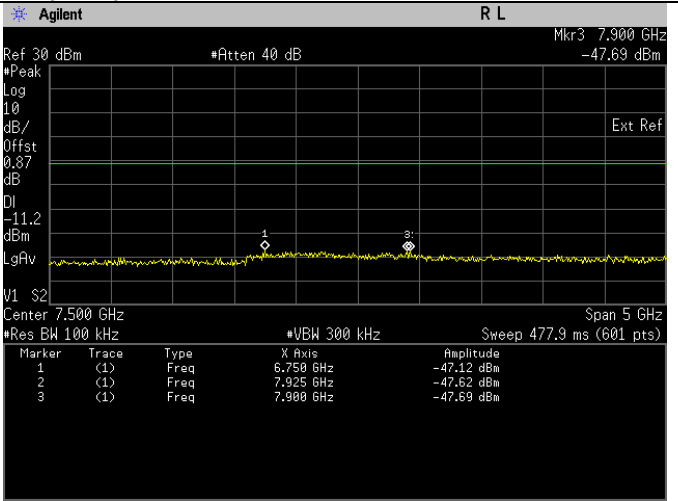
Frequency 2402 MHz. Reference Level.



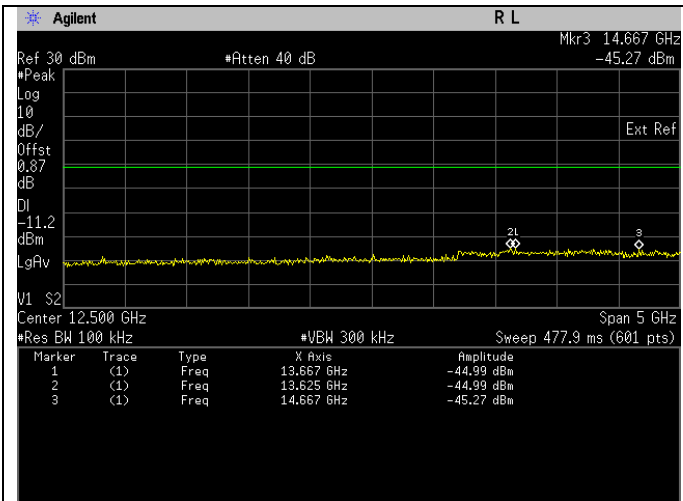
Frequency 2402 MHz. Emission Level, 30 MHz -> 1 GHz.



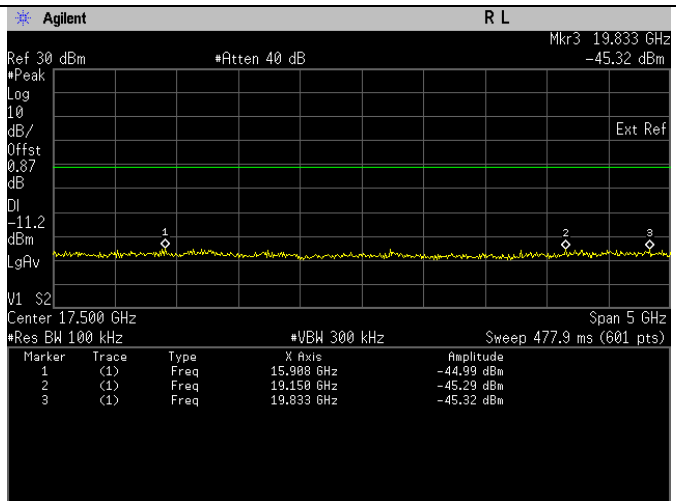
Frequency 2402 MHz. Emission Level, 1 GHz -> 5 GHz.



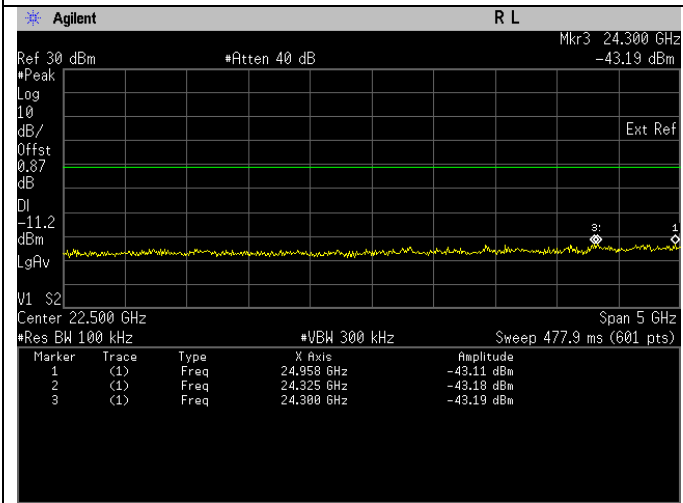
Frequency 2402 MHz. Emission Level, 5 GHz -> 10 GHz.



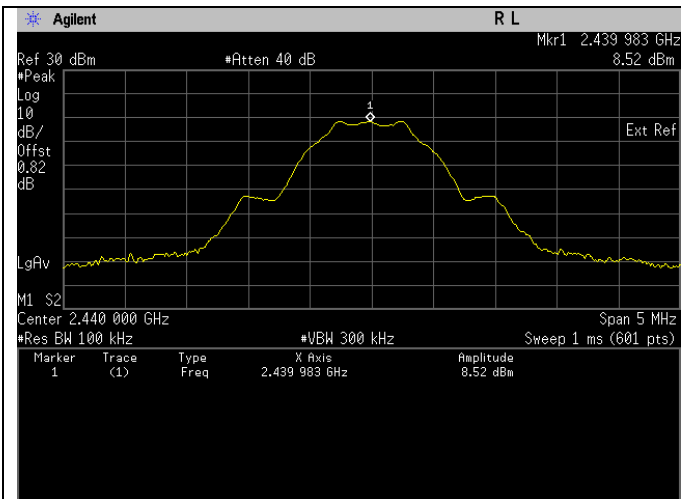
Frequency 2402 MHz. Emission Level, 10 GHz -> 15 GHz.



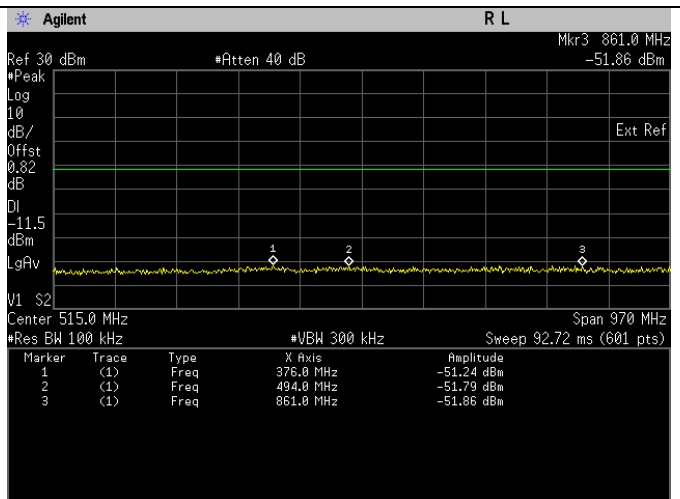
Frequency 2402 MHz. Emission Level, 15 GHz -> 20 GHz.



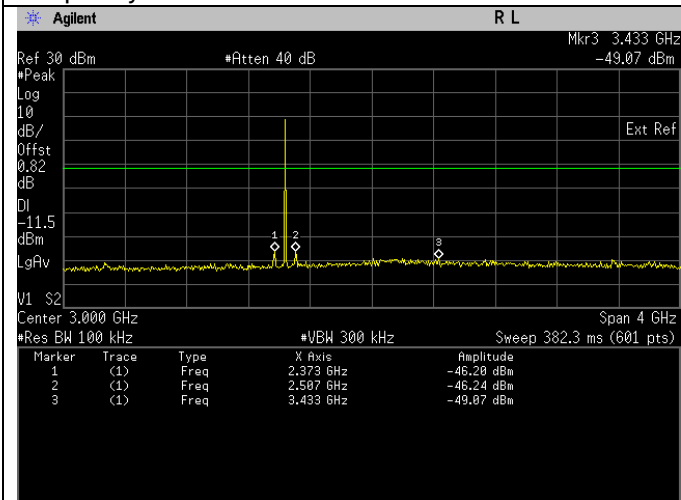
Frequency 2402 MHz Emission Level, 20 GHz -> 25 GHz.



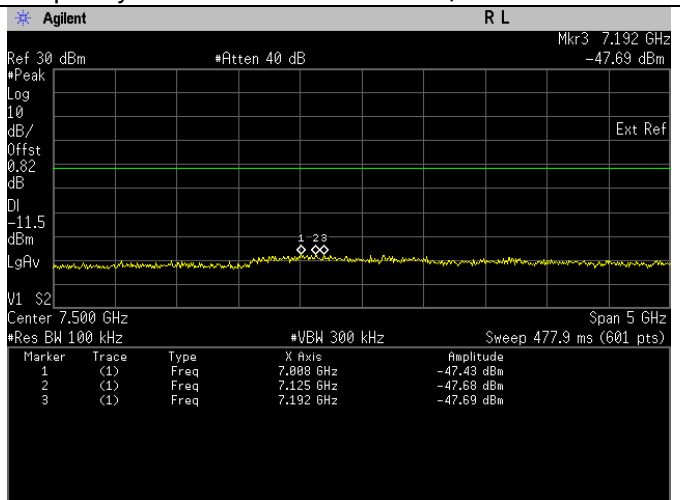
Frequency 2440 MHz. Reference Level.



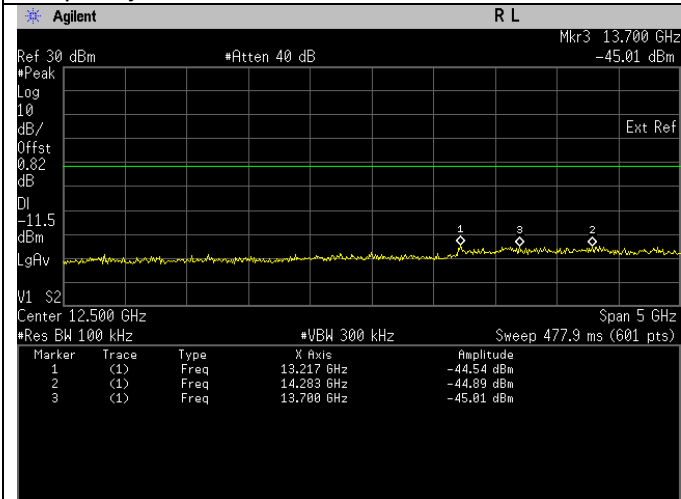
Frequency 2440 MHz. Emission Level, 30 MHz -> 1 GHz.



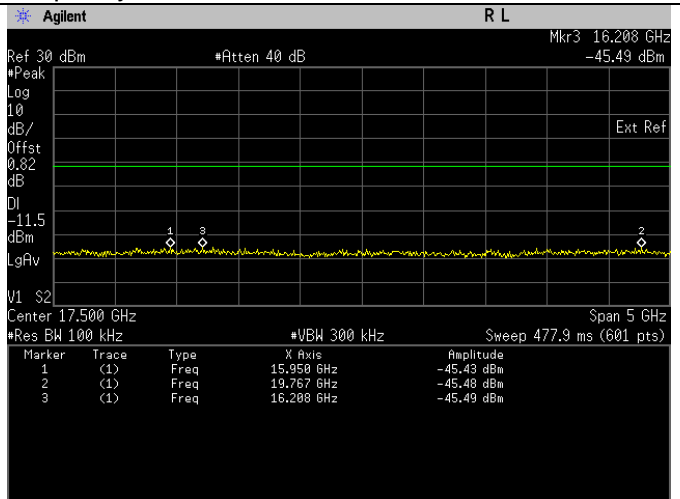
Frequency 2440 MHz. Emission Level, 1 GHz -> 5 GHz.



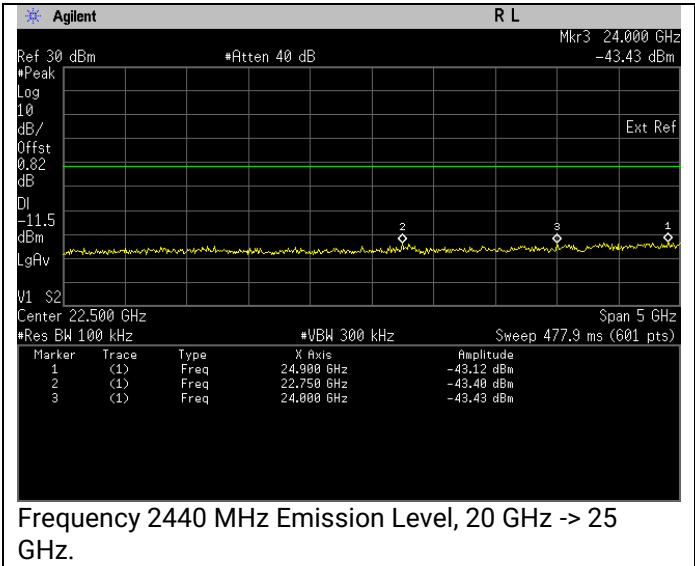
Frequency 2440 MHz. Emission Level, 5 GHz -> 10 GHz.

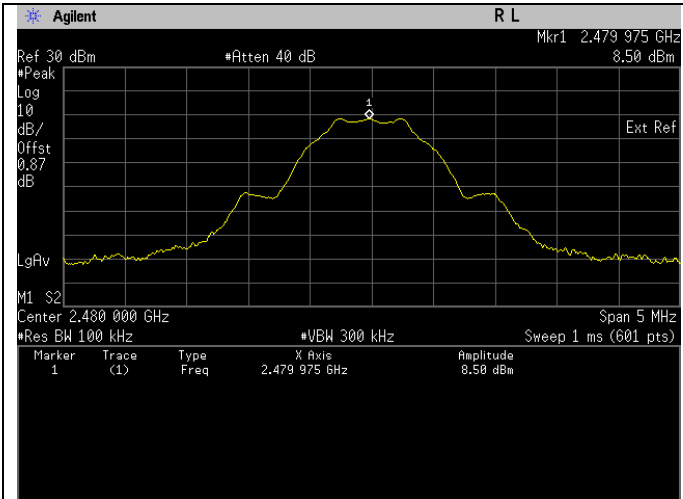


Frequency 2440 MHz. Emission Level, 10 GHz -> 15 GHz.

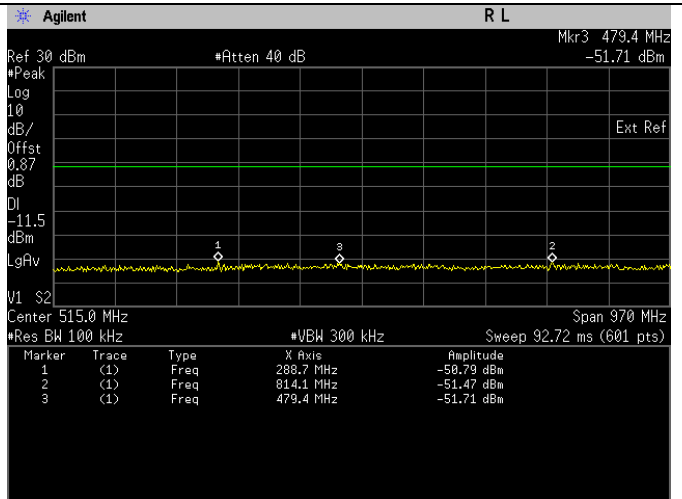


Frequency 2440 MHz. Emission Level, 15 GHz -> 20 GHz.

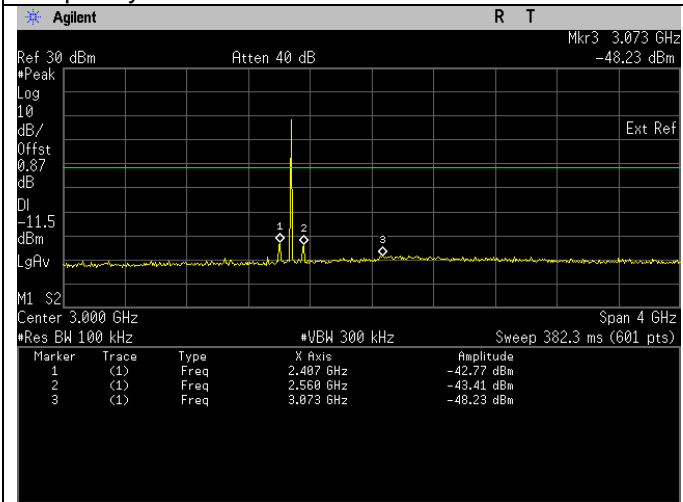




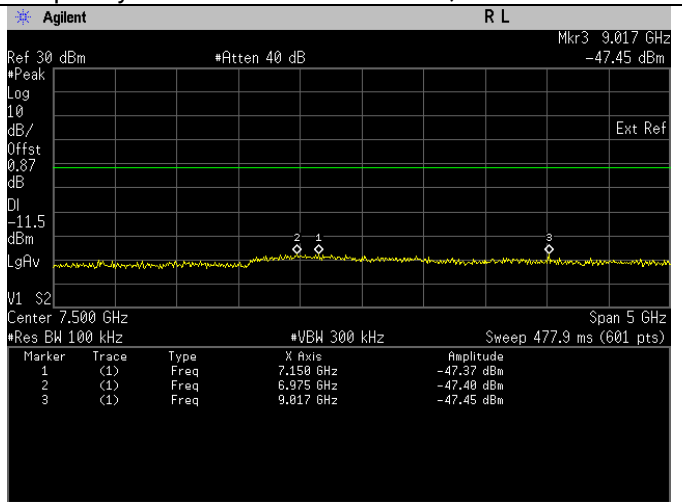
Frequency 2480 MHz. Reference Level.



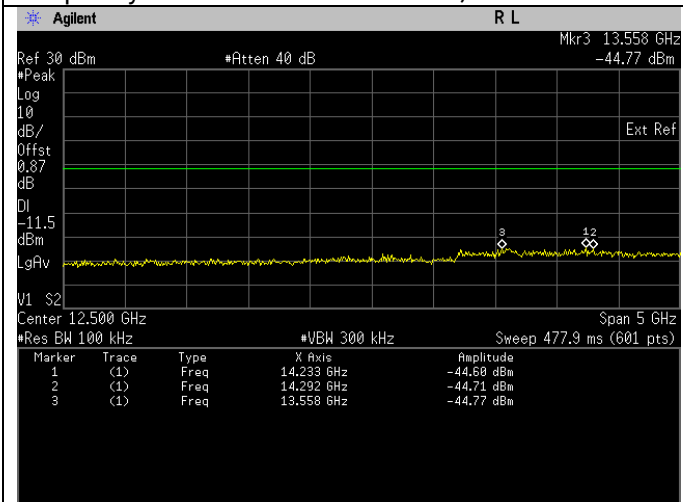
Frequency 2480 MHz. Emission Level, 30 MHz -> 1 GHz.



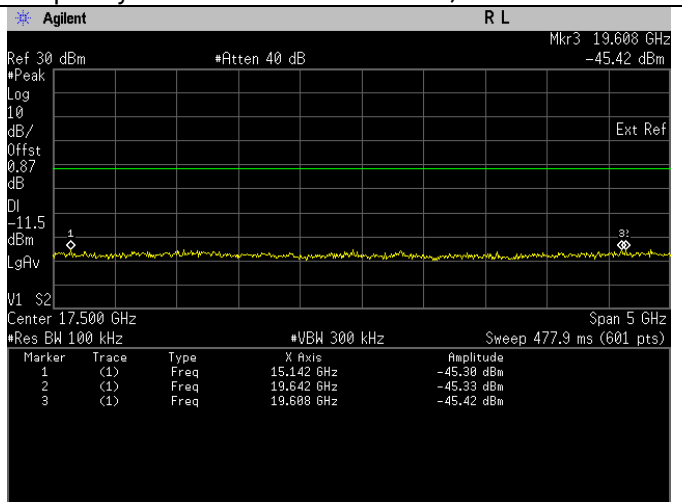
Frequency 2480 MHz. Emission Level, 1 GHz -> 5 GHz.



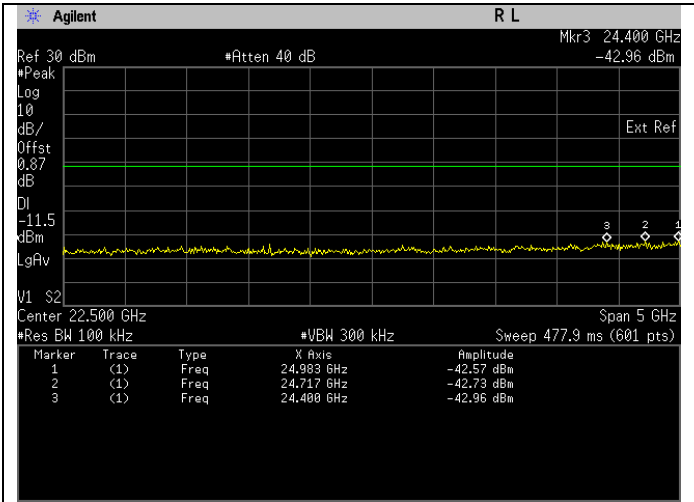
Frequency 2480 MHz. Emission Level, 5 GHz -> 10 GHz.



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



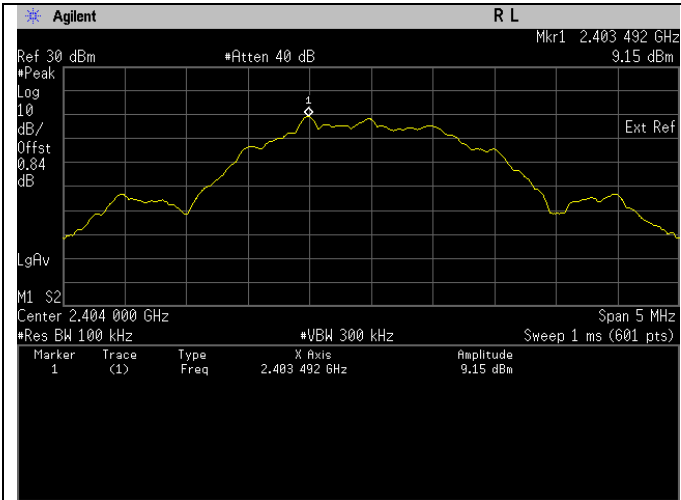
Frequency 2480 MHz. Emission Level, 15 GHz -> 20 GHz.



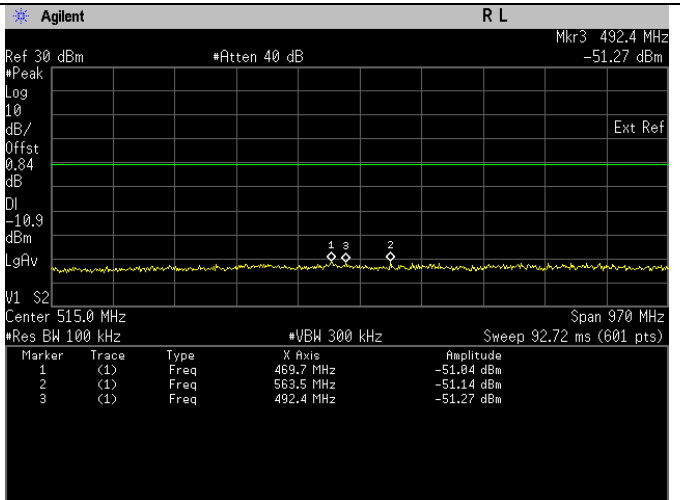
Frequency 2480 MHz Emission Level, 20 GHz -> 25 GHz.

BTLE 2M

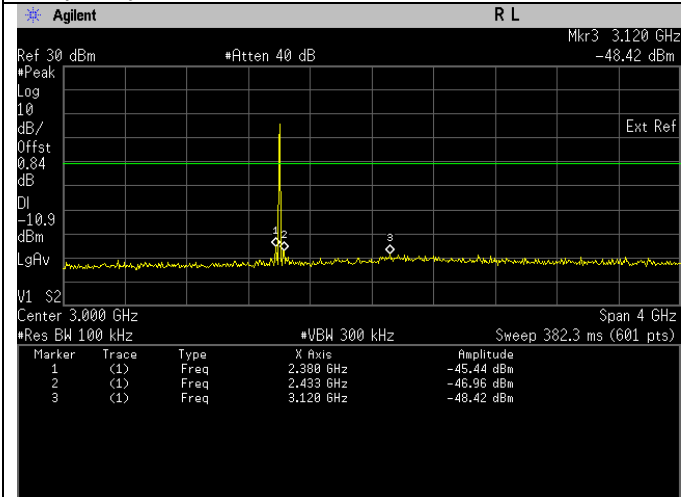
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	Spurs (MHz)	Level (dBm)	Status
Bluetooth LE	2	2404	23683.00	-42.30	Pass
			24717.00	-42.69	Pass
			24958.00	-43.13	Pass
Bluetooth LE	2	2440	2413.00	-38.51	Pass
			2467.000	-39.07	Pass
			24975.000	-42.38	Pass
Bluetooth LE	2	2478	2511.000	-39.08	Pass
			2445.000	-39.29	Pass
			24300.000	-42.44	Pass



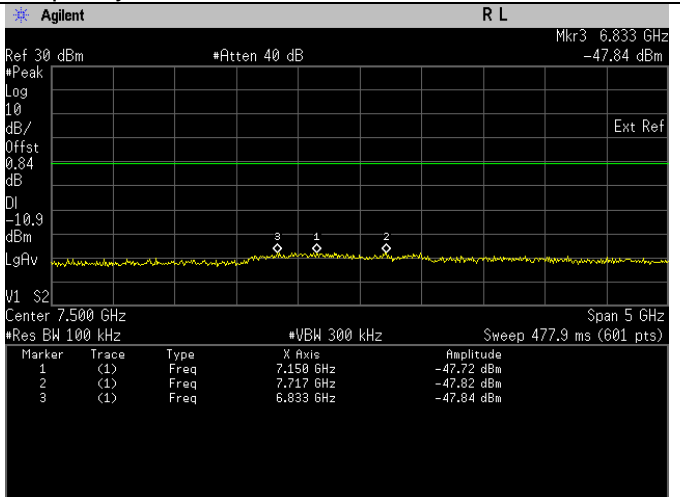
Frequency 2404 MHz. Reference Level.



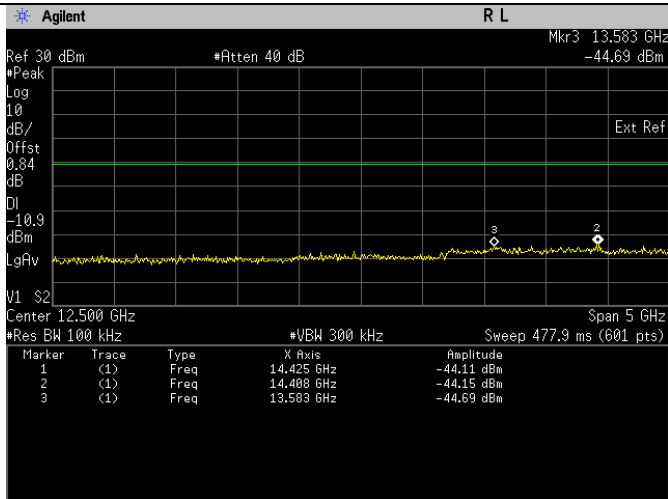
Frequency 2404 MHz. Emission Level, 30 MHz -> 1 GHz.



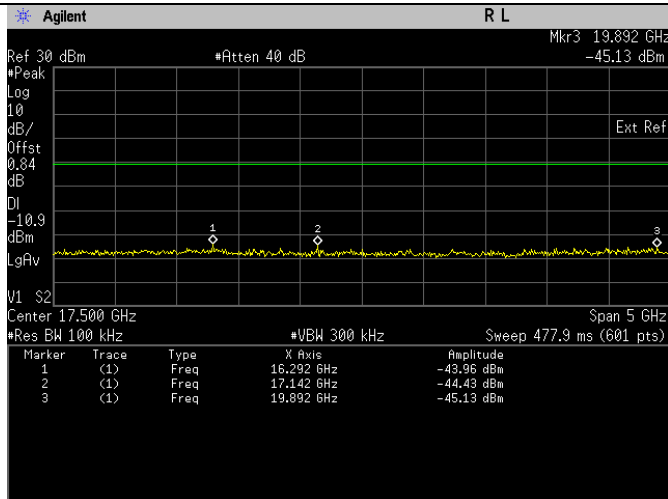
Frequency 2404 MHz. Emission Level, 1 GHz -> 5 GHz.



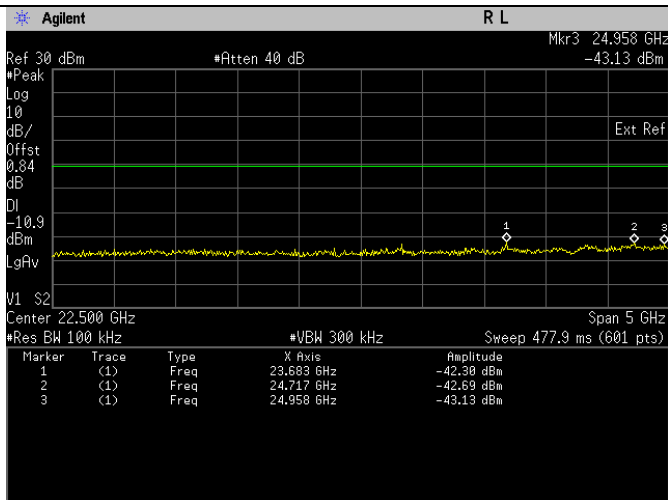
Frequency 2404 MHz. Emission Level, 5 GHz -> 10 GHz.



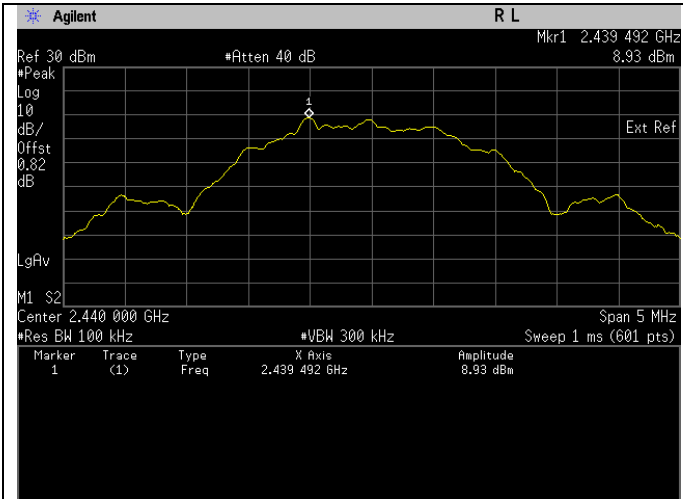
Frequency 2404 MHz. Emission Level, 10 GHz -> 15 GHz.



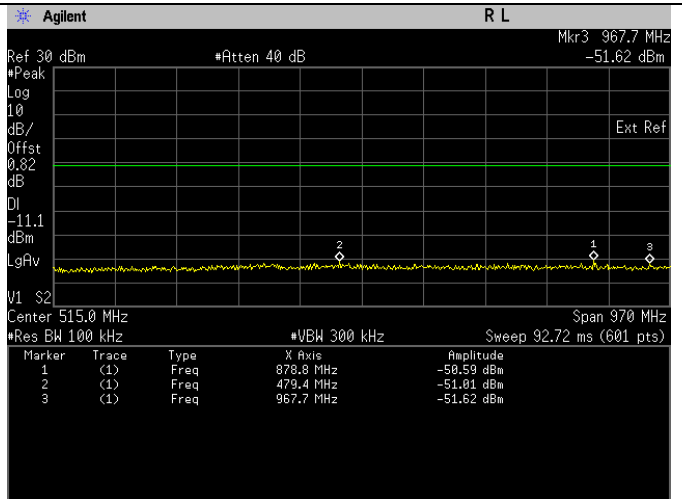
Frequency 2404 MHz. Emission Level, 15 GHz -> 20 GHz.



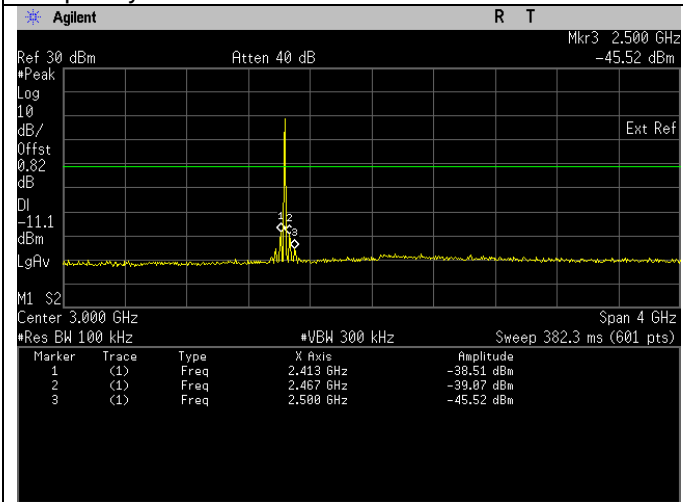
Frequency 2404 MHz Emission Level, 20 GHz -> 25 GHz.



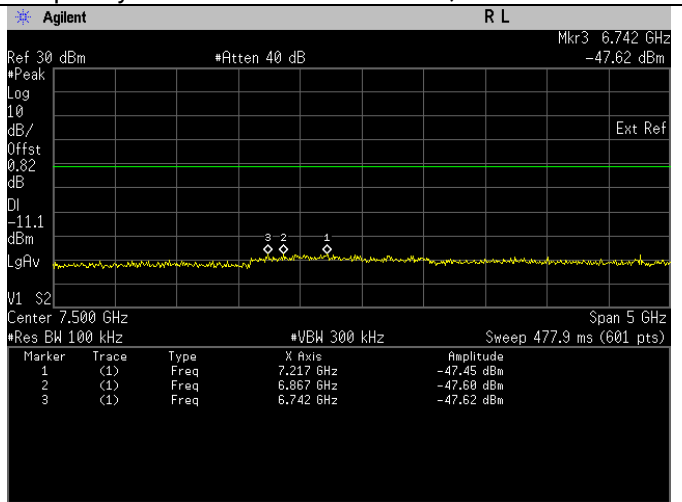
Frequency 2440 MHz. Reference Level.



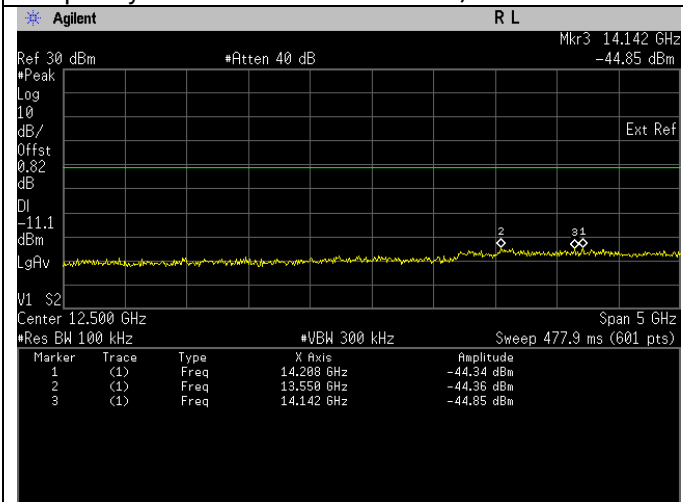
Frequency 2440 MHz. Emission Level, 30 MHz -> 1 GHz.



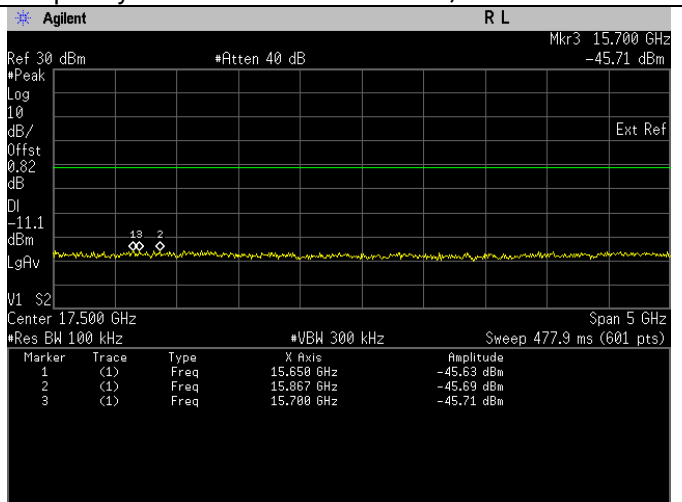
Frequency 2440 MHz. Emission Level, 1 GHz -> 5 GHz.



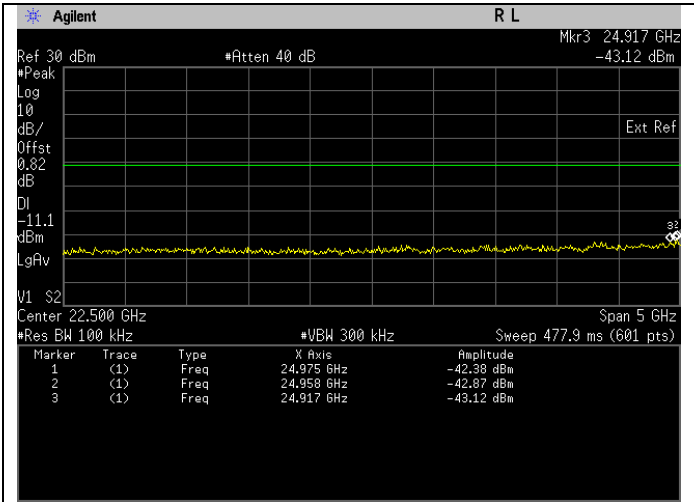
Frequency 2440 MHz. Emission Level, 5 GHz -> 10 GHz.



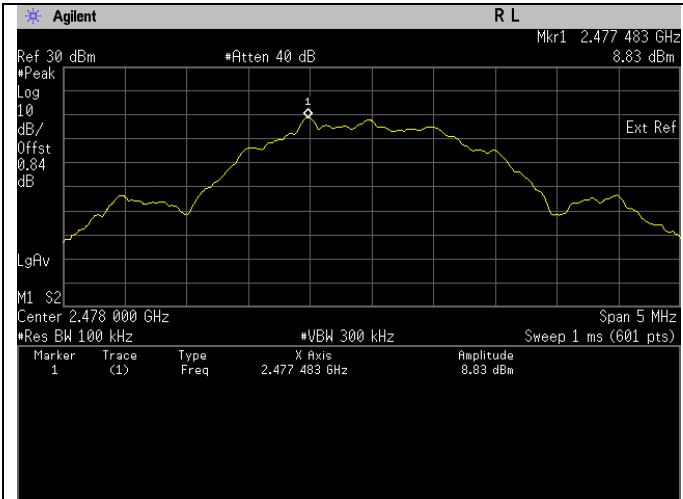
Frequency 2440 MHz. Emission Level, 10 GHz -> 15 GHz.



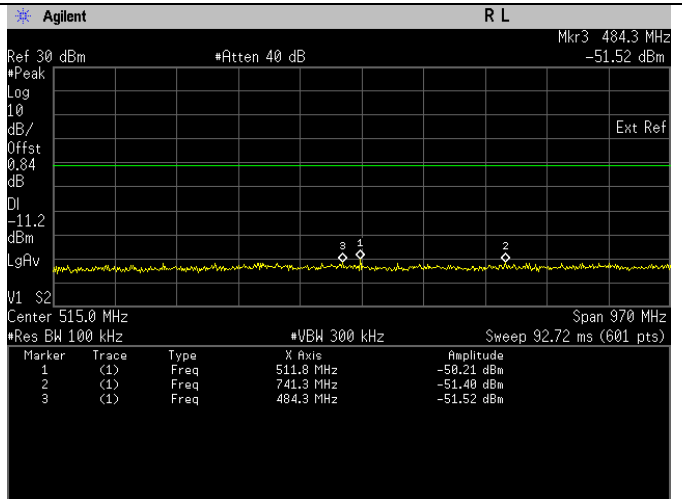
Frequency 2440 MHz. Emission Level, 15 GHz -> 20 GHz.



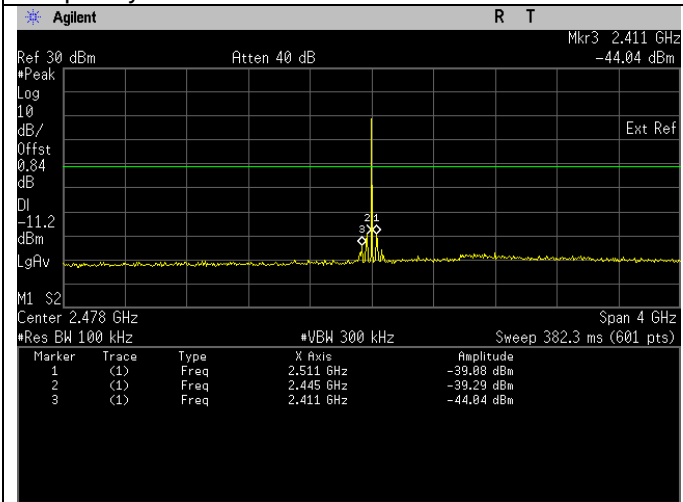
Frequency 2440 MHz Emission Level, 20 GHz -> 25 GHz.



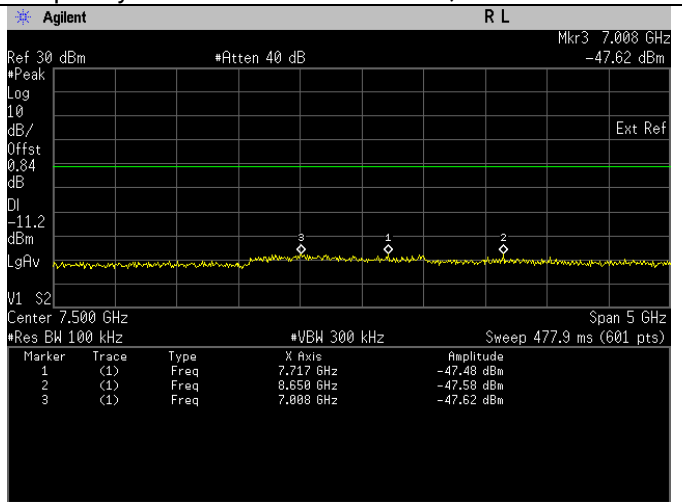
Frequency 2478 MHz. Reference Level.



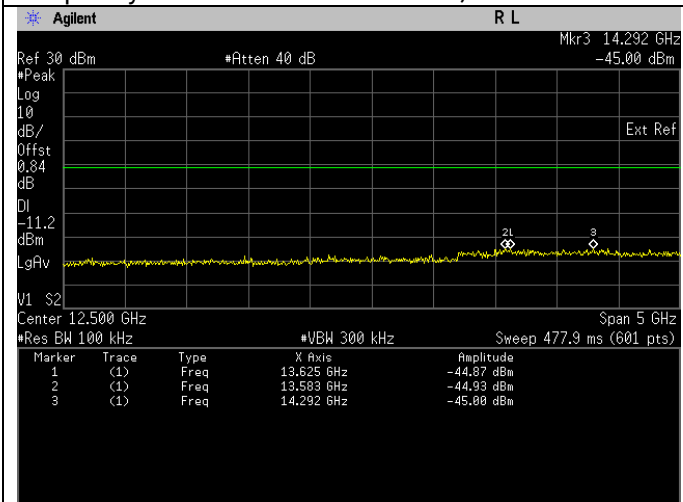
Frequency 2478 MHz. Emission Level, 30 MHz -> 1 GHz.



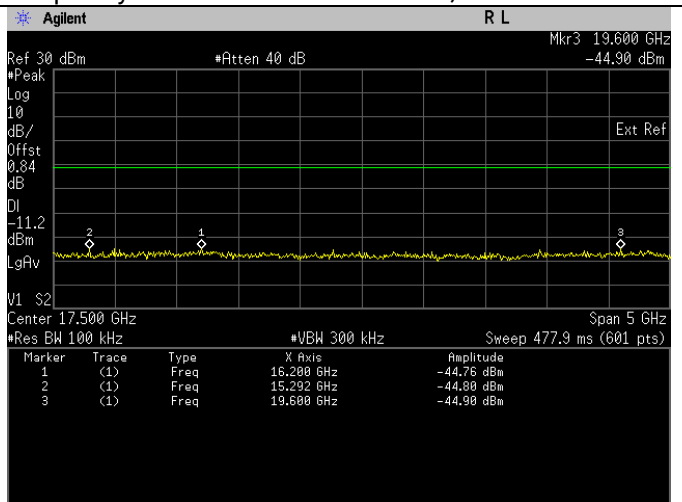
Frequency 2478 MHz. Emission Level, 1 GHz -> 5 GHz.



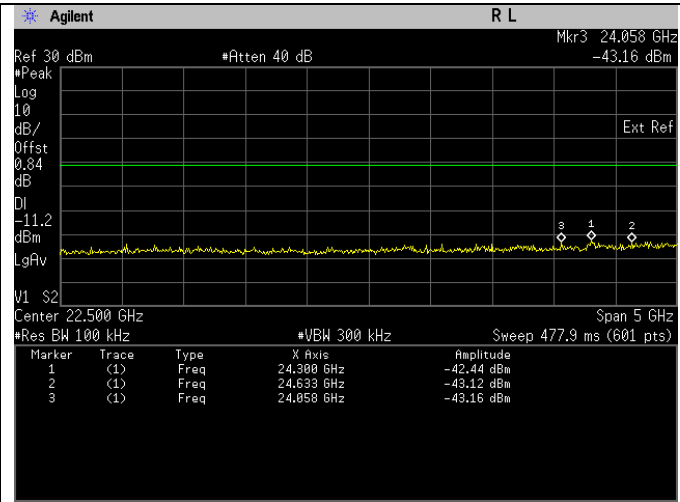
Frequency 2478 MHz. Emission Level, 5 GHz -> 10 GHz.



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



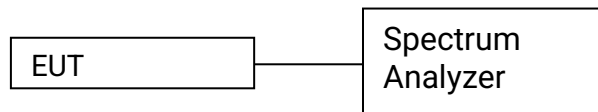
Frequency 2478 MHz. Emission Level, 15 GHz -> 20 GHz.



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.

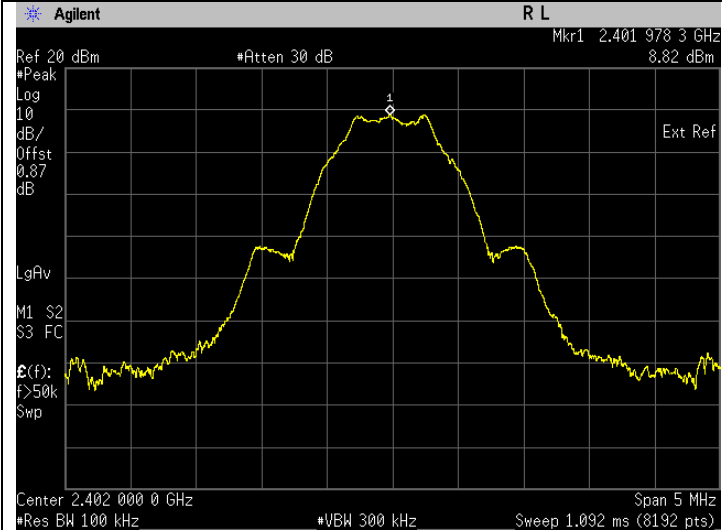
6.5.2 Test Limits:

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

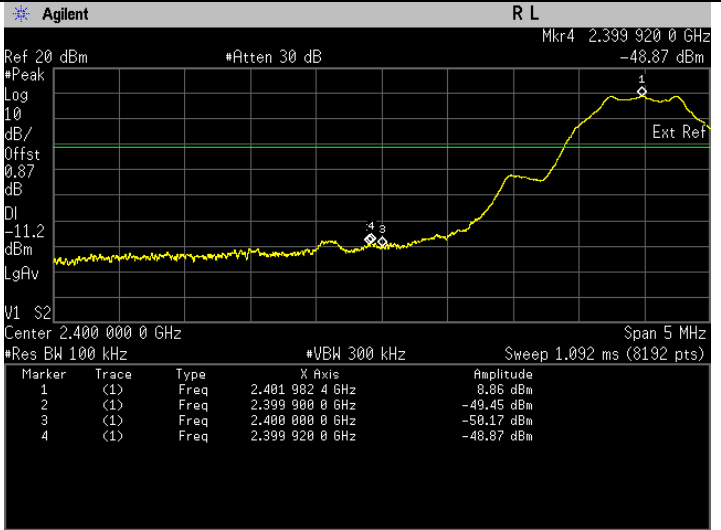
6.5.3 Test Result

BTLE 1M

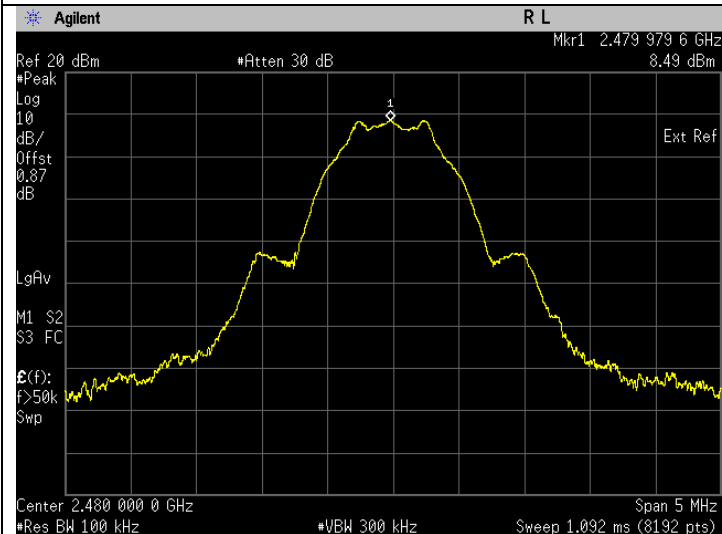
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	Frequencies (MHz)	Power (dBm)	Status
Bluetooth LE	1	2402	2399.92	-48.87	Pass
Bluetooth LE	1	2480	2483.54	-55.03	Pass



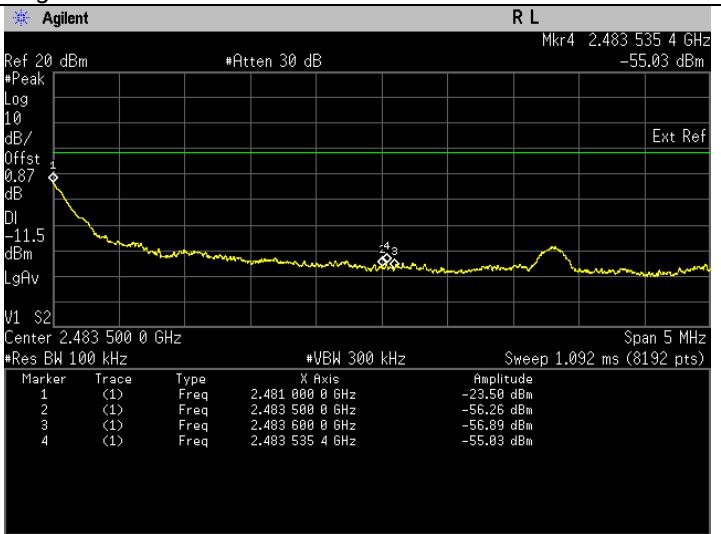
Band Edge(Peak). Bluetooth LE Frequency 2402 MHz Reference Level.



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



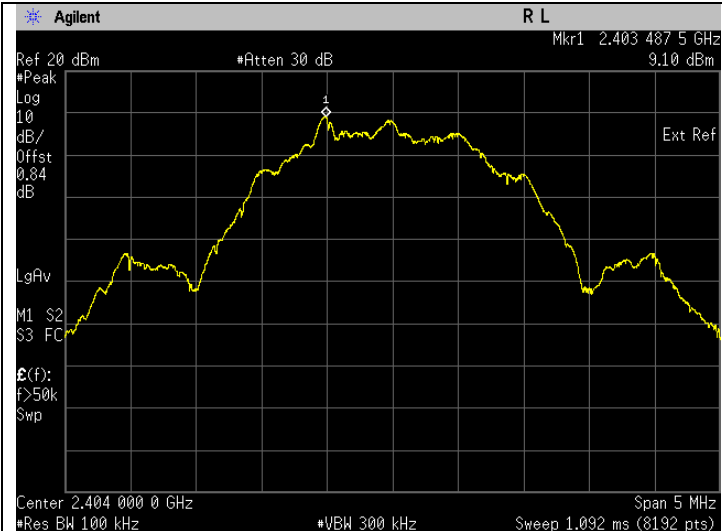
Band Edge(Peak). Bluetooth LE Frequency 2480 MHz Reference Level.



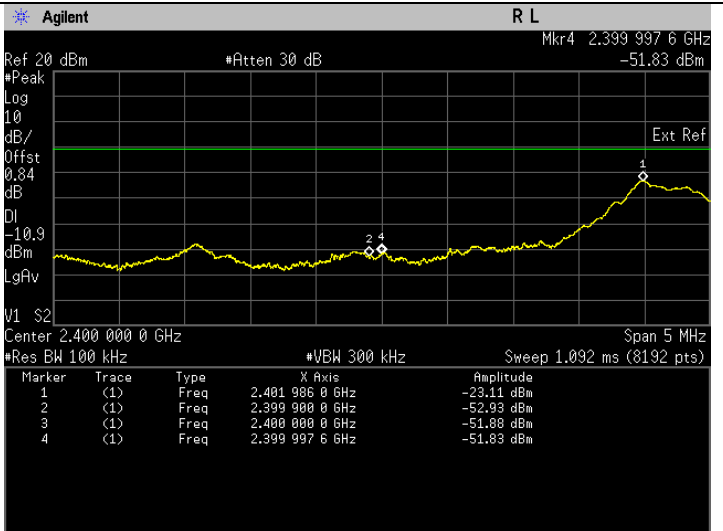
Band Edge(Peak). Bluetooth LE Frequency 2480 MHz Band Edge.

BTLE 2M

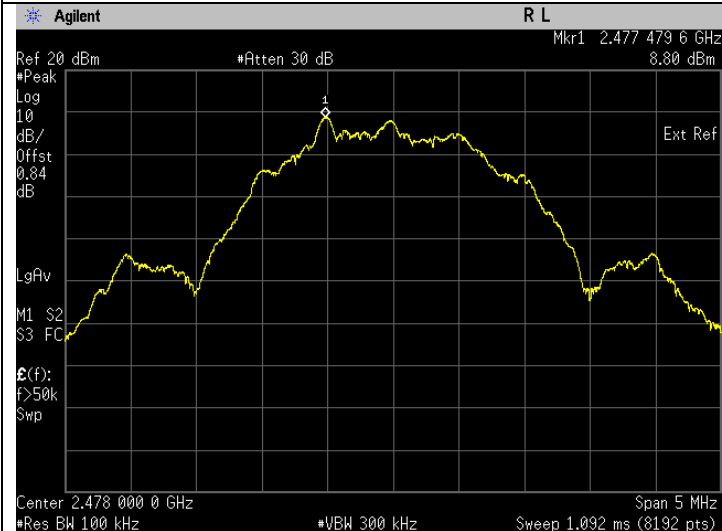
Test Conditions		Test Frequency	Results		
Standard	Data Rate	Tx (MHz)	Frequencies (MHz)	Power (dBm)	Status
Bluetooth LE	2	2404	2400.00	-51.83	Pass
Bluetooth LE	2	2478	2483.52	-51.01	Pass



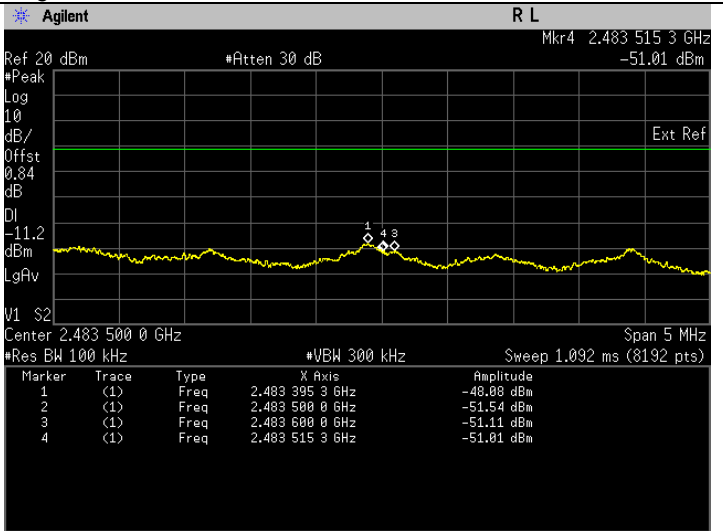
Band Edge(Peak). Bluetooth LE Frequency 2404 MHz Reference Level.



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



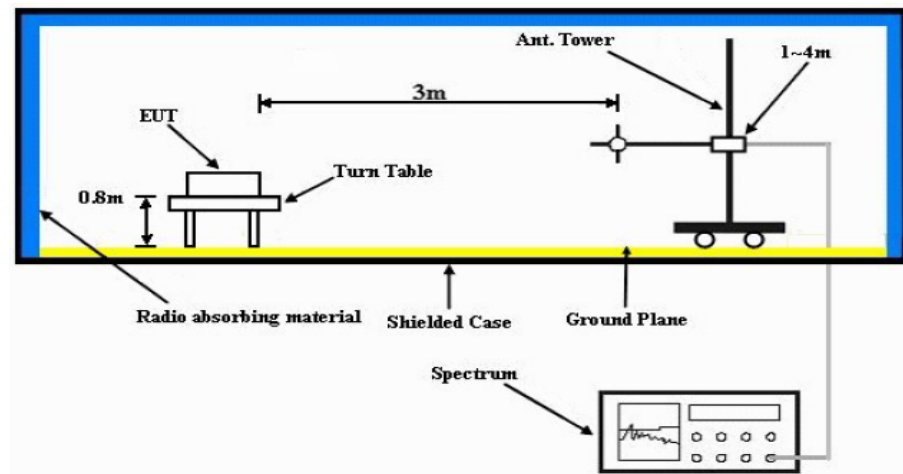
Band Edge(Peak). Bluetooth LE Frequency 2478 MHz Reference Level.



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 : 1467N00-EMC-00042

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1512
Battery :	-	Charger :	-
Accessory :	HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 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	Peak	2336.8130	52.28 *	74.00	21.72
Horizontal	Peak	2336.8130	48.64 *	74.00	25.36
Vertical	Average	2390.0000	35.53	54.00	18.47
Horizontal	Average	2390.0000	35.47	54.00	18.53
Vertical	Peak	2390.0000	44.88 *	74.00	29.12
Horizontal	Peak	2390.0000	44.92 *	74.00	29.08

Temperature (°C) :	23.6	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 12 Apr, 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.

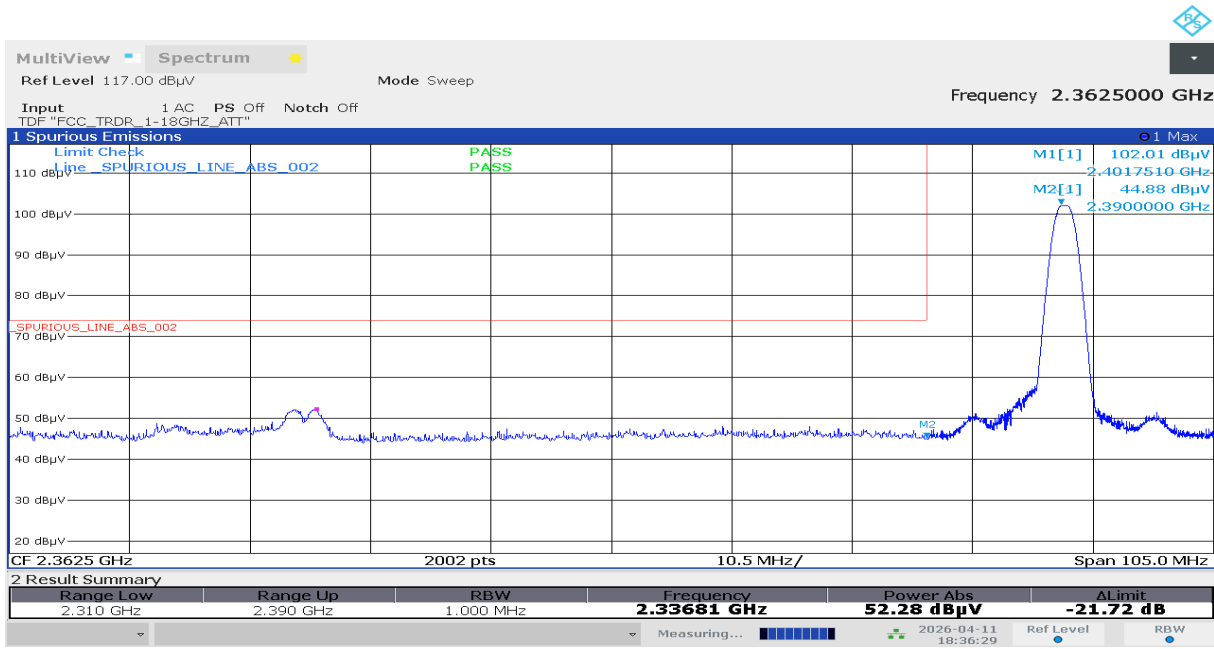
2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



06:39:32 PM 04/11/2026

Restricted Band Edge (Peak,Vertical)



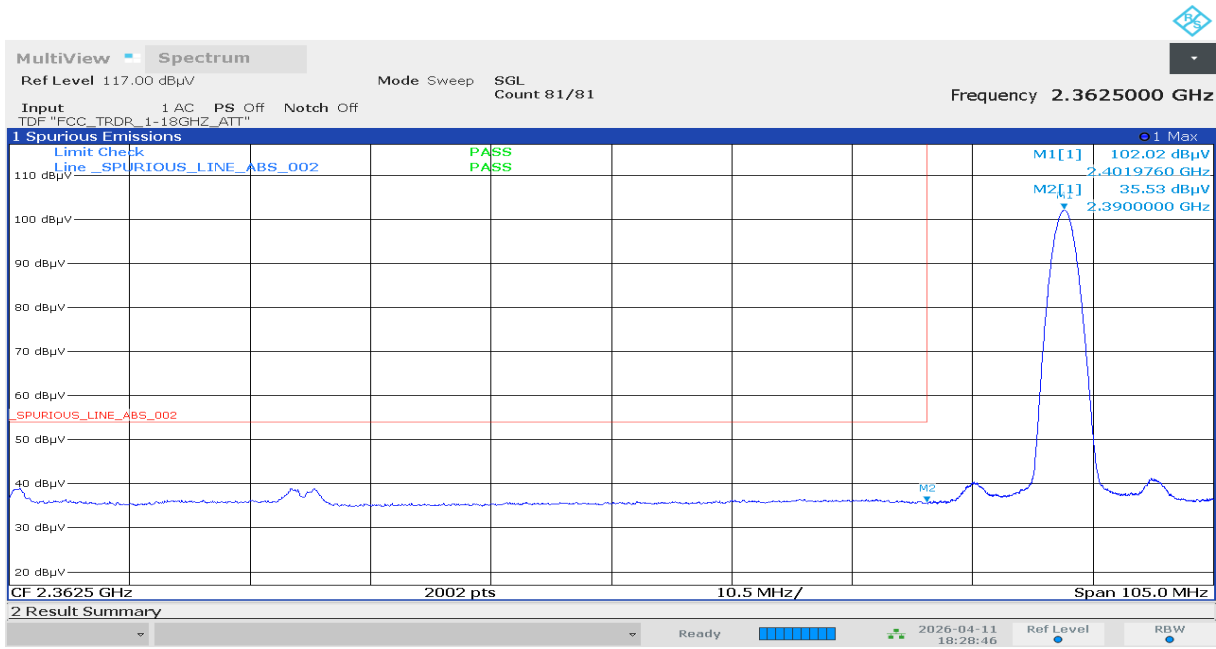
06:36:29 PM 04/11/2026

Restricted Band Edge (Average,Horizontal)



06:31:49 PM 04/11/2026

Restricted Band Edge (Average,Vertical)



06:28:47 PM 04/11/2026

SAC TX Restricted Band-edge : 1467N00-EMC-00042

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1512
Battery :	-	Charger :	-
Accessory :	HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01		
Test Mode :	BTLE - GFSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2480.0000	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	2483.5000	40.08	54.00	13.92
Horizontal	Average	2483.5000	36.64	54.00	17.36
Vertical	Peak	2483.5000	48.30 *	74.00	25.70
Horizontal	Peak	2483.5000	45.20 *	74.00	28.80
Vertical	Peak	2483.6900	52.89 *	74.00	21.11
Horizontal	Peak	2486.4590	47.06 *	74.00	26.94
Horizontal	Peak	2486.8210	46.48 *	74.00	27.52
Vertical	Average	2487.3160	42.10	54.00	11.90
Vertical	Average	2487.5960	42.59	54.00	11.41
Vertical	Peak	2487.9260	51.73 *	74.00	22.27
Horizontal	Peak	2488.1900	46.61 *	74.00	27.39
Horizontal	Peak	2489.6730	46.65 *	74.00	27.35
Horizontal	Peak	2492.8710	46.35 *	74.00	27.65
Horizontal	Peak	2493.8100	46.42 *	74.00	27.58
Horizontal	Peak	2494.4370	46.59 *	74.00	27.41
Horizontal	Peak	2494.4700	46.10 *	74.00	27.90
Horizontal	Peak	2494.7670	46.59 *	74.00	27.41
Horizontal	Peak	2499.0190	45.96 *	74.00	28.04

Temperature (°C) :	23.6	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 12 Apr, 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.

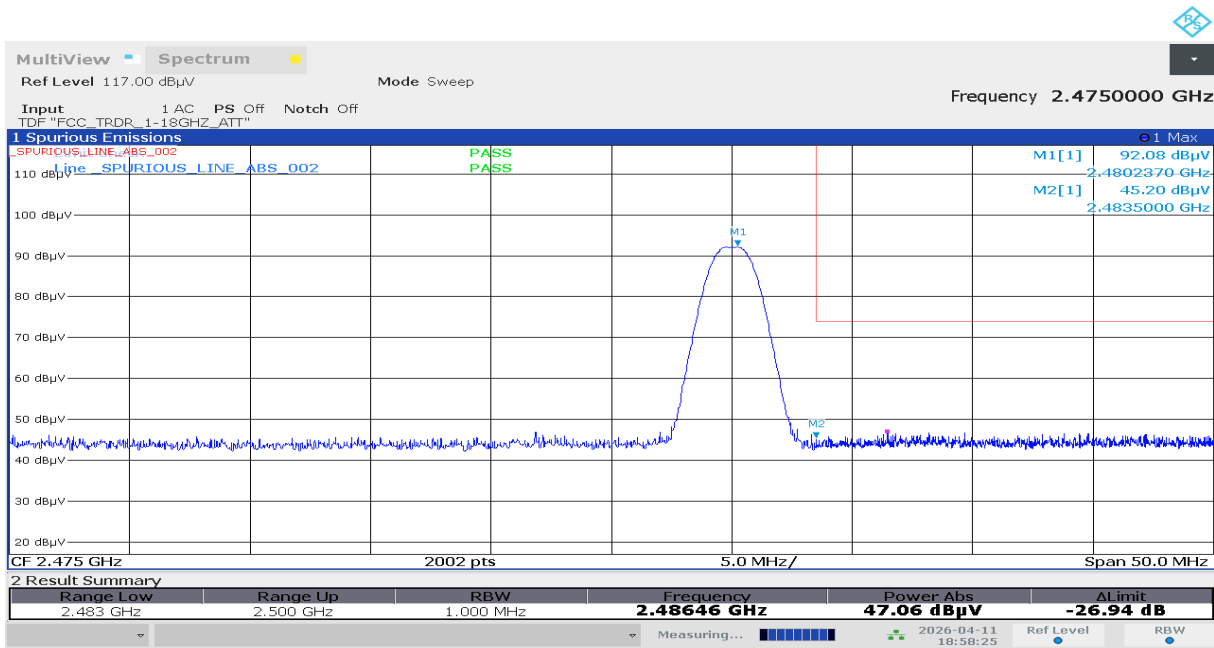
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

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

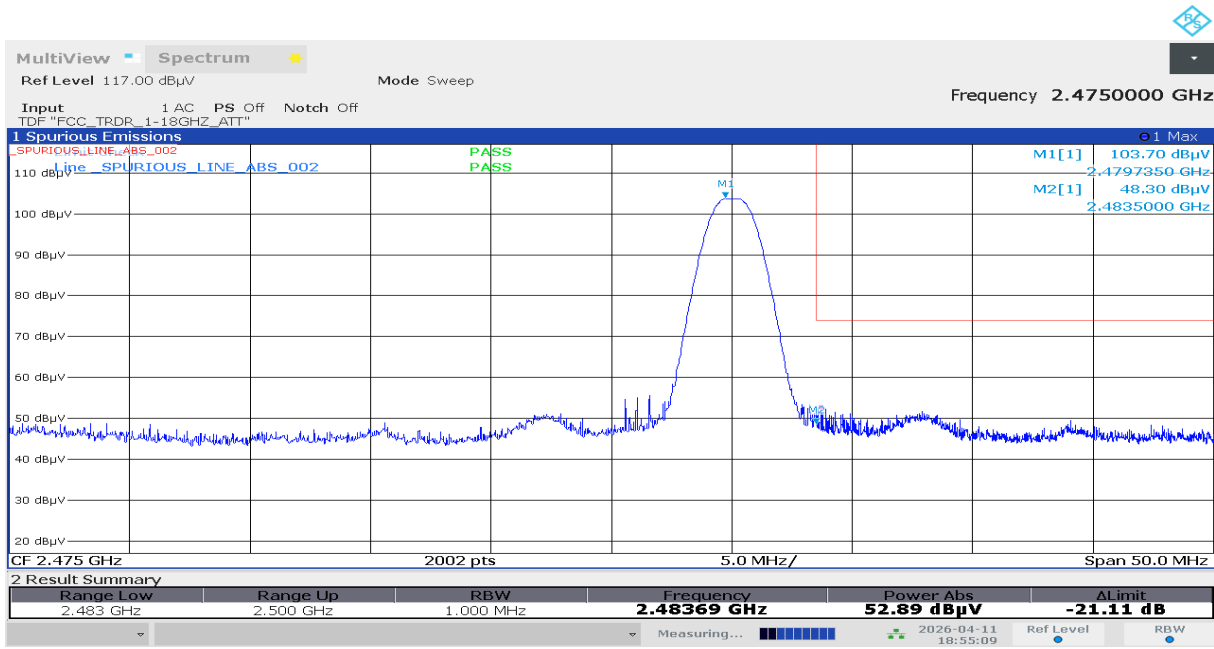
2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



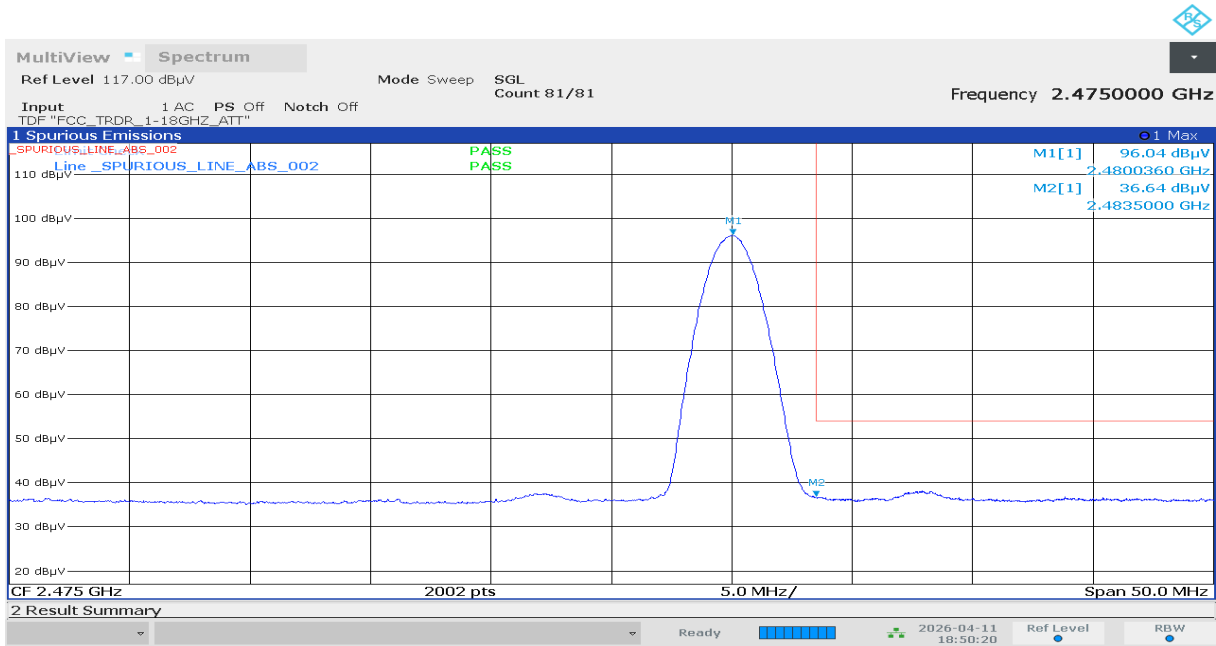
06:58:26 PM 04/11/2026

Restricted Band Edge (Peak,Vertical)



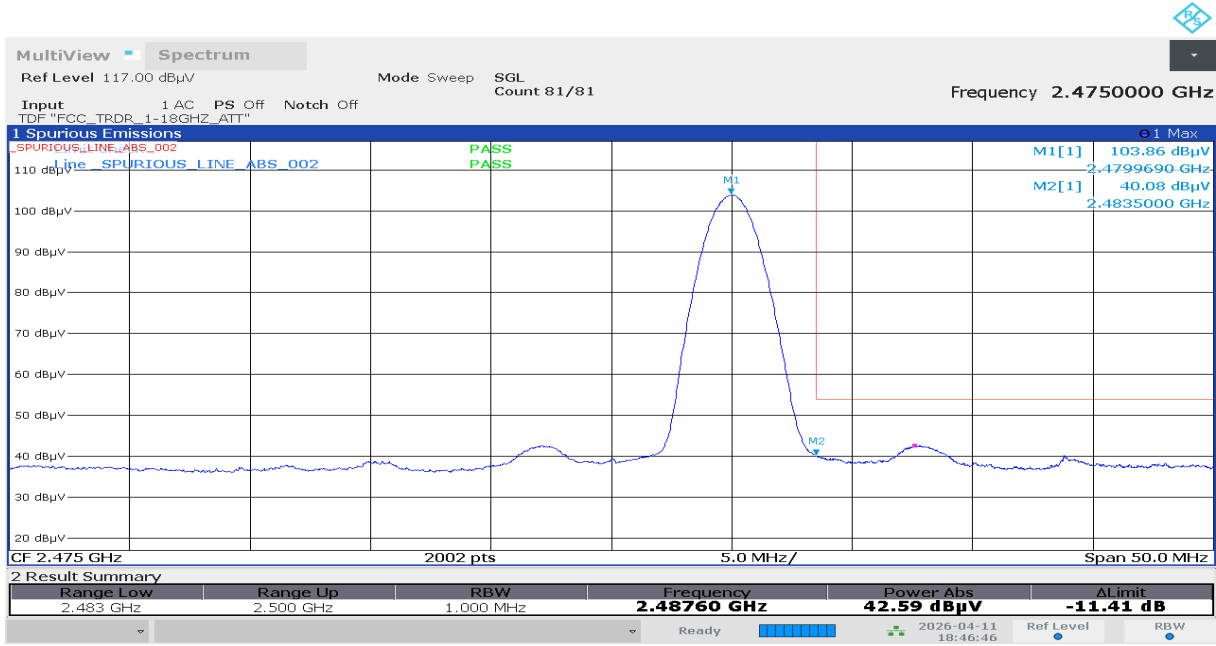
06:55:10 PM 04/11/2026

Restricted Band Edge (Average,Horizontal)



06:50:20 PM 04/11/2026

Restricted Band Edge (Average,Vertical)



06:46:47 PM 04/11/2026

SAC TX Restricted Band-edge : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth (kHz) : 2000.0000
Test Frequency (MHz) : 2404.0000 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)
Horizontal	Average	2379.9700	42.86	54.00	11.14
Vertical	Average	2380.0500	47.25	54.00	6.75
Vertical	Peak	2380.3700	53.11 *	74.00	20.89
Horizontal	Peak	2380.4500	52.18 *	74.00	21.82
Horizontal	Average	2380.7690	42.67	54.00	11.33
Vertical	Average	2381.1690	43.25	54.00	10.75
Vertical	Average	2390.0000	36.59	54.00	17.41
Horizontal	Average	2390.0000	35.78	54.00	18.22
Vertical	Peak	2390.0000	46.62 *	74.00	27.38
Horizontal	Peak	2390.0000	45.98 *	74.00	28.02

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Wed, 15 Apr, 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.

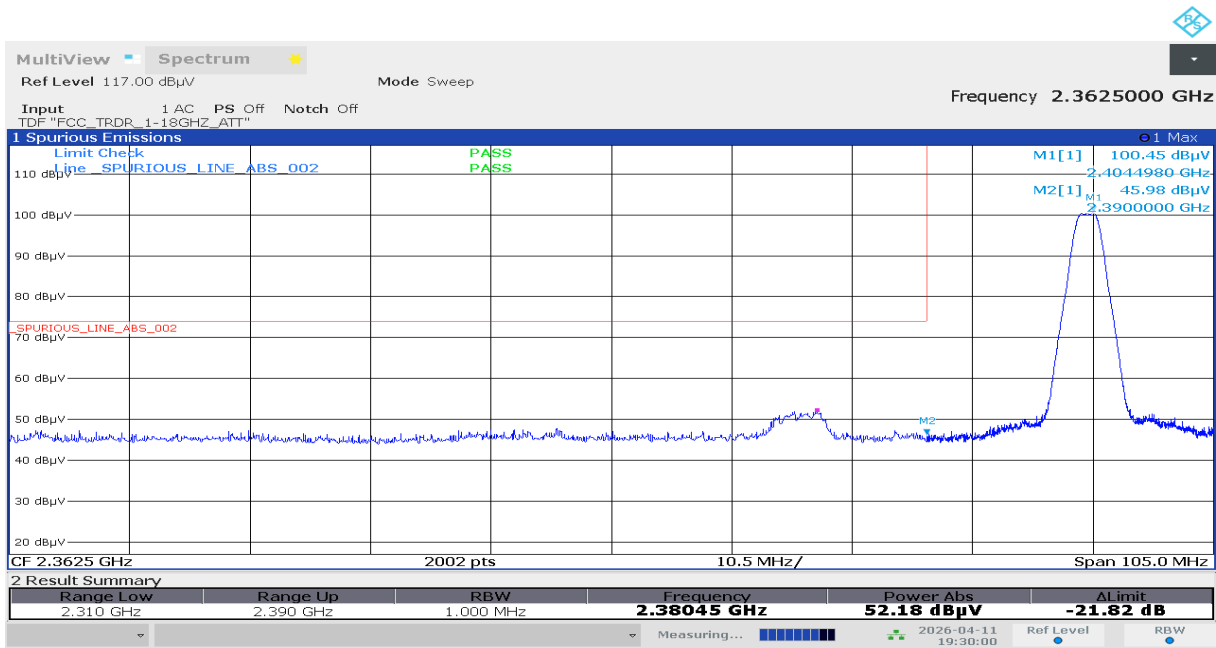
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

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

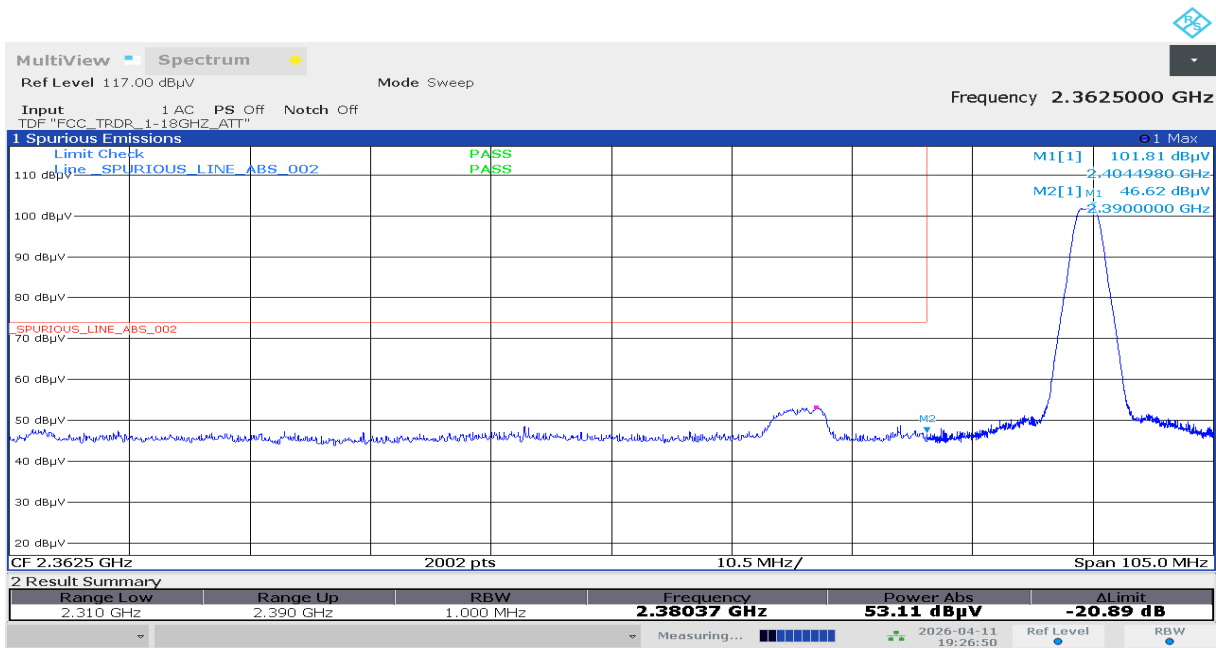
2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



07:30:01 PM 04/11/2026

Restricted Band Edge (Peak,Vertical)



07:26:51 PM 04/11/2026



SAC TX Restricted Band-edge : 1467N00-EMC-00042

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1512
Battery :	-	Charger :	-
Accessory :	HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01		
Test Mode :	BTLE - GFSK	Channel SP/Bandwidth (kHz) :	2000.0000
Test Frequency (MHz) :	2478.0000	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	2483.5000	42.94	54.00	11.06
Horizontal	Average	2483.5000	38.39	54.00	15.61
Vertical	Peak	2483.5000	48.76 *	74.00	25.24
Horizontal	Peak	2483.5000	45.71 *	74.00	28.29
Vertical	Average	2483.5080	42.94	54.00	11.06
Horizontal	Peak	2483.5250	48.33 *	74.00	25.67
Vertical	Peak	2483.9200	50.12 *	74.00	23.88
Vertical	Average	2484.1020	42.04	54.00	11.96
Horizontal	Peak	2489.2110	47.70 *	74.00	26.30
Horizontal	Peak	2489.9530	45.29 *	74.00	28.71
Horizontal	Peak	2490.5300	46.24 *	74.00	27.76
Horizontal	Peak	2491.4040	44.72 *	74.00	29.28
Horizontal	Peak	2491.4530	43.86 *	74.00	30.14
Horizontal	Peak	2493.0030	48.18 *	74.00	25.82
Horizontal	Peak	2495.2280	47.06 *	74.00	26.94
Vertical	Peak	2499.5630	46.85 *	74.00	27.15

Temperature (°C) :	23.6	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 12 Apr, 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.

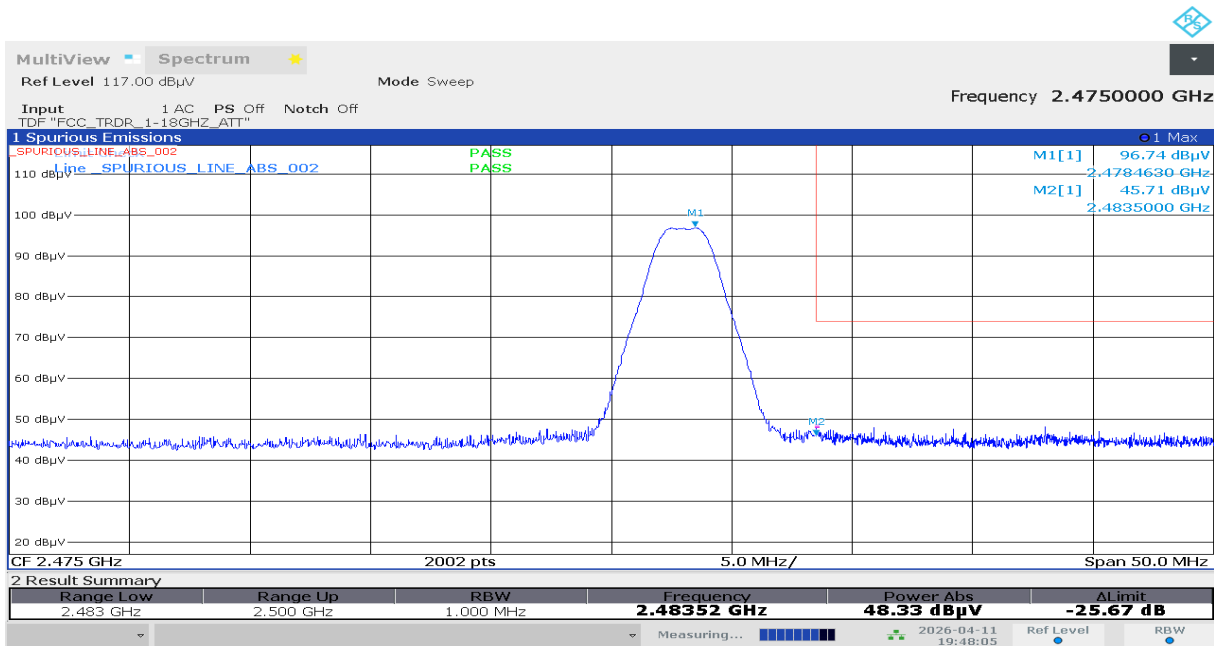
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

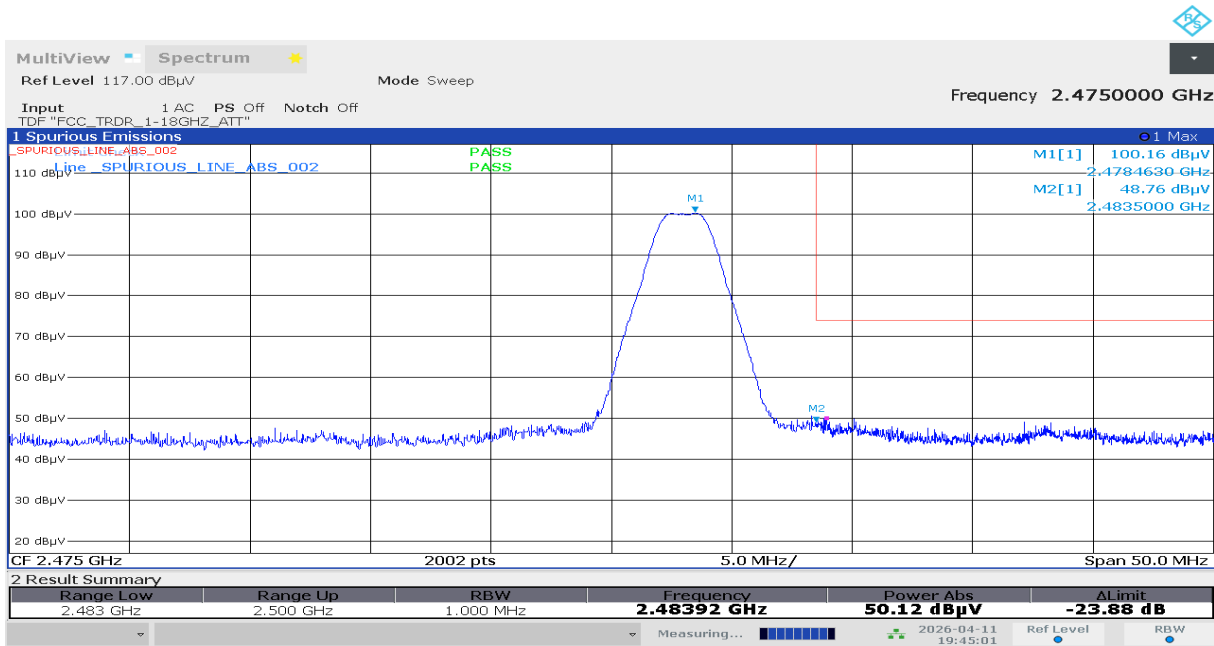
1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.

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

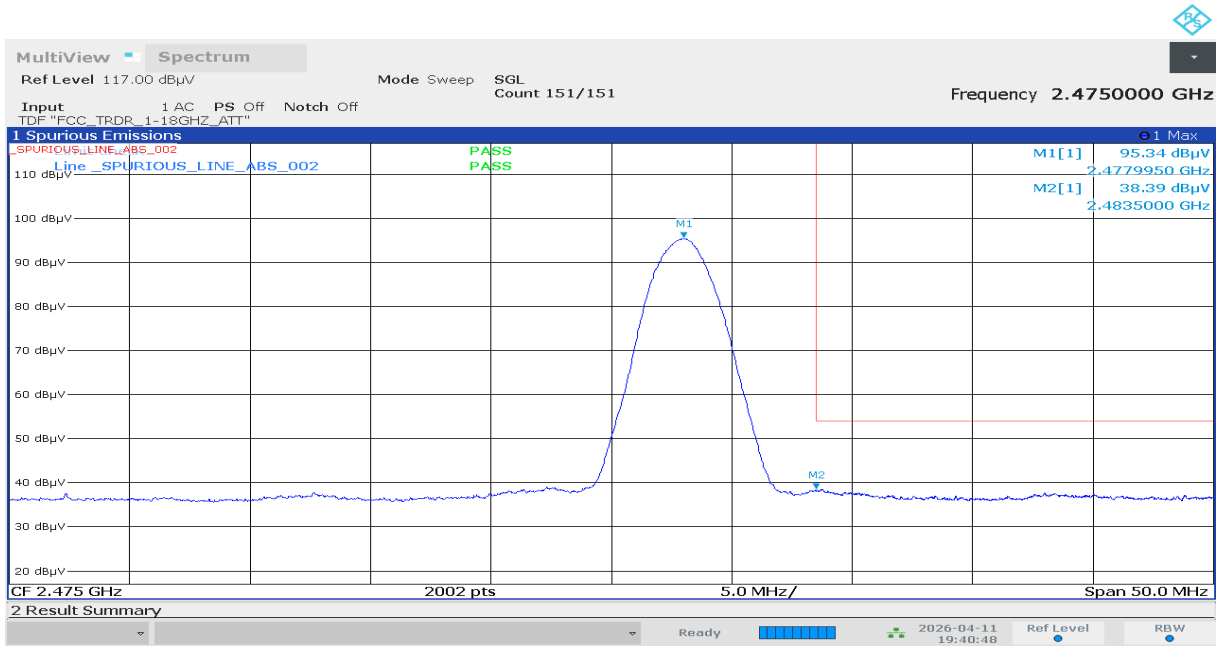
Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)

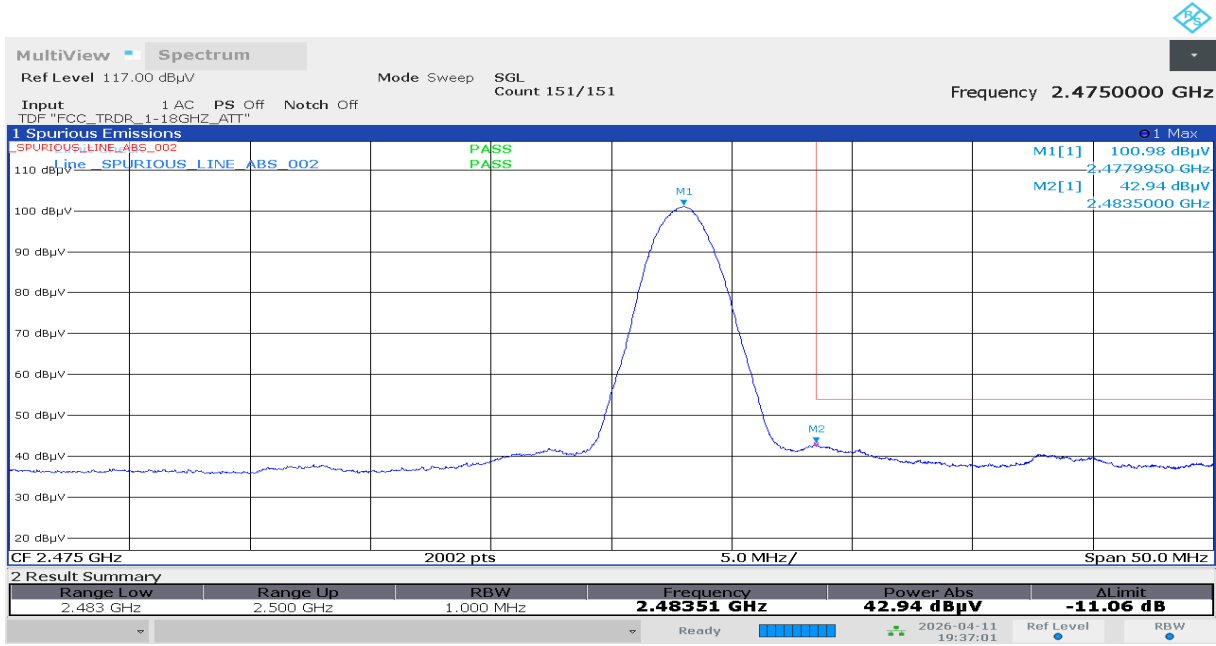


Restricted Band Edge (Average,Horizontal)



07:40:48 PM 04/11/2026

Restricted Band Edge (Average,Vertical)



07:37:02 PM 04/11/2026

SAC TX Radiated Emission : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 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. Voltage (V) : 120.00
1-2023+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)
Vertical	Peak	33.1864	29.22 *	104.48	84.48	55.26
Horizontal	Peak	33.6320	28.23 *	104.48	84.48	56.26
Horizontal	Peak	48.8494	27.04 *	104.48	84.48	57.45
Vertical	Peak	49.2860	30.90 *	104.48	84.48	53.59
Horizontal	Peak	79.0502	38.52 *	104.48	84.48	45.96
Vertical	Peak	79.5198	37.47 *	104.48	84.48	47.01
Vertical	Quasi-Peak	130.4246	21.76 *	-	43.50	21.74
Horizontal	Quasi-Peak	130.4936	27.98	-	43.50	15.52
Horizontal	Quasi-Peak	250.0080	29.36	-	46.00	16.64
Vertical	Quasi-Peak	250.0230	24.50 *	-	46.00	21.50
Vertical	Peak	501.6000	33.68 *	104.48	84.48	50.81
Horizontal	Peak	501.6070	32.12 *	104.48	84.48	52.36
Horizontal	Peak	1437.6430	36.81 *	-	74.00	37.19
Horizontal	Average	1437.6430	22.52 *	-	54.00	31.48
Vertical	Peak	1437.6450	35.42 *	-	74.00	38.58
Vertical	Average	1437.6450	21.94 *	-	54.00	32.06
Horizontal	Peak	1500.0960	38.53 *	-	74.00	35.47
Horizontal	Average	1500.0960	32.85 *	-	54.00	21.15
Vertical	Peak	1500.2030	38.21 *	-	74.00	35.79
Vertical	Average	1500.2030	32.16 *	-	54.00	21.84

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

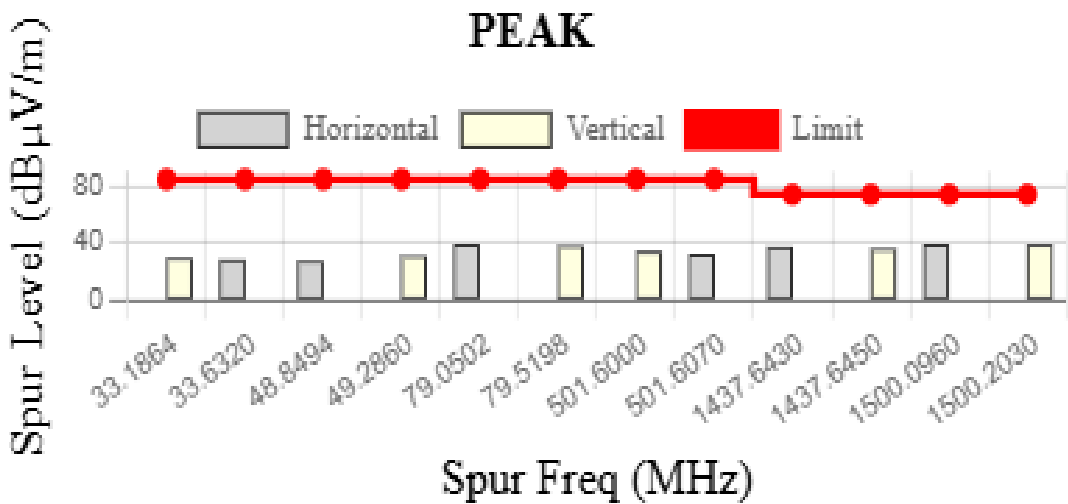
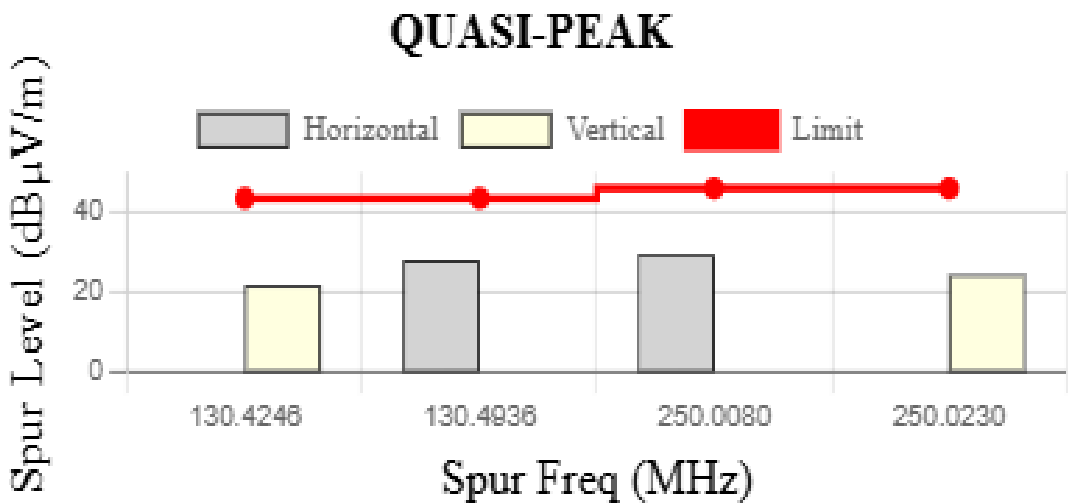
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

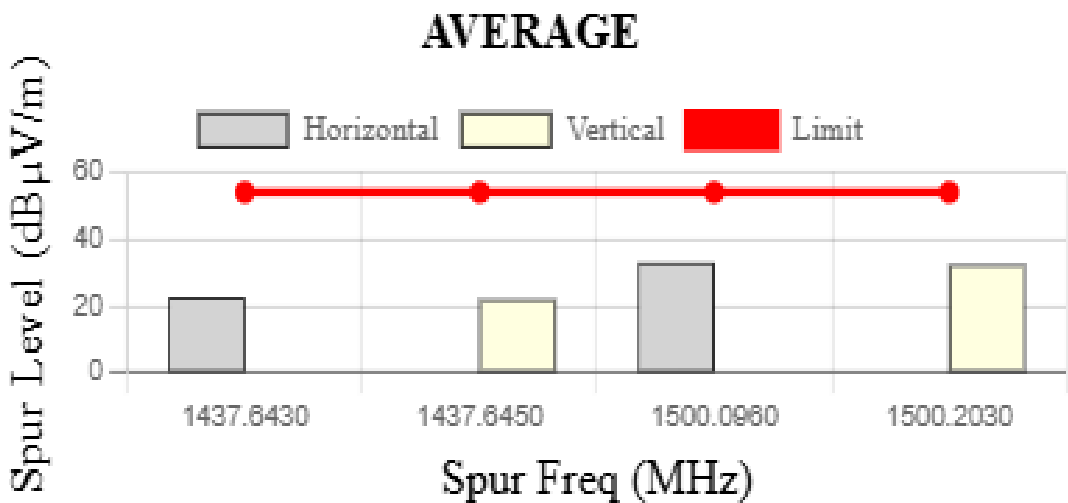
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

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 : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth (kHz) : 1000.0000
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)
Vertical	Peak	30.7884	31.52 *	104.48	84.48	52.96
Horizontal	Peak	30.8024	29.08 *	104.48	84.48	55.40
Horizontal	Peak	48.3474	27.37 *	104.48	84.48	57.11
Vertical	Peak	48.9778	31.44 *	104.48	84.48	53.04
Vertical	Peak	79.1401	37.13 *	104.48	84.48	47.35
Horizontal	Peak	79.5767	37.76 *	104.48	84.48	46.72
Horizontal	Quasi-Peak	135.3026	27.75	-	43.50	15.75
Vertical	Quasi-Peak	135.3036	17.29 *	-	43.50	26.21
Horizontal	Quasi-Peak	250.0120	29.24	-	46.00	16.76
Vertical	Quasi-Peak	250.0170	24.82 *	-	46.00	21.18
Horizontal	Peak	501.5940	31.75 *	104.48	84.48	52.73
Vertical	Peak	501.5980	33.77 *	104.48	84.48	50.71
Vertical	Peak	1499.9590	38.44 *	-	74.00	35.56
Vertical	Average	1499.9590	32.35 *	-	54.00	21.65
Horizontal	Peak	1500.0590	38.71 *	-	74.00	35.29
Horizontal	Average	1500.0590	33.38 *	-	54.00	20.62
Horizontal	Peak	4879.5860	46.44 *	-	74.00	27.56
Horizontal	Average	4879.5860	38.16	-	54.00	15.84
Vertical	Peak	4880.0900	45.60 *	-	74.00	28.40
Vertical	Average	4880.0900	33.56 *	-	54.00	20.44

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

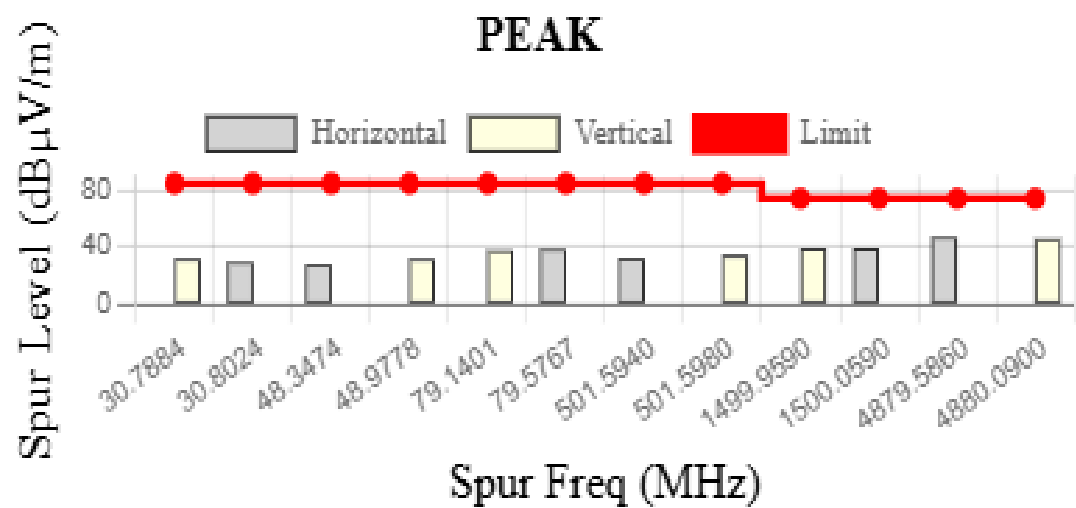
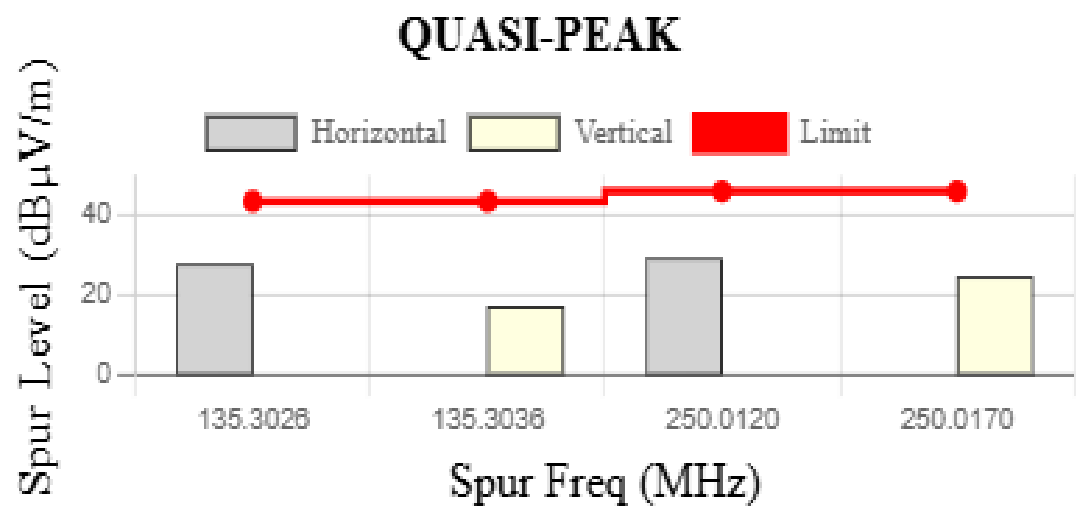
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

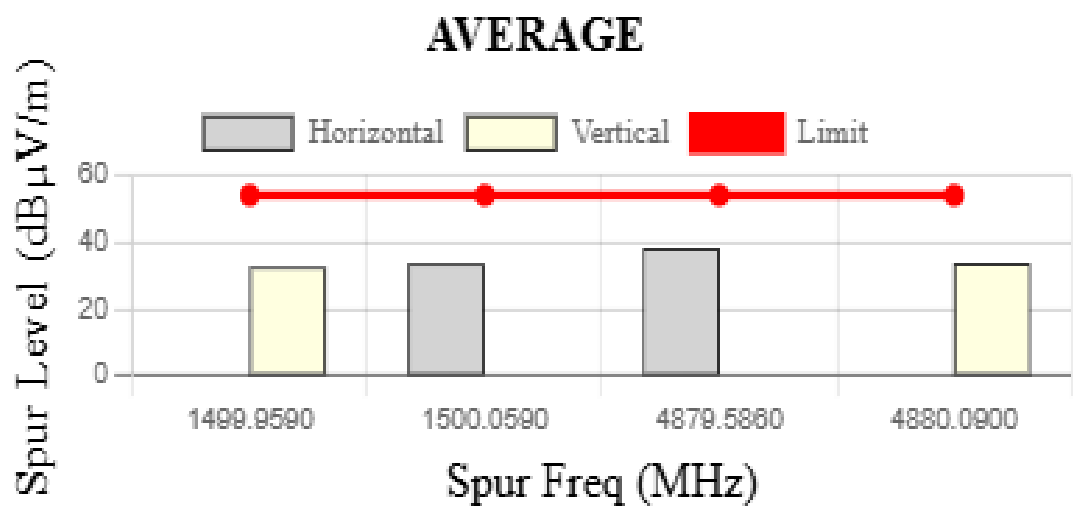
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

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 : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth (kHz) : 1000.0000
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	Peak	33.8349	26.73 *	104.48	84.48	57.75
Vertical	Peak	34.1836	27.17 *	104.48	84.48	57.31
Horizontal	Peak	48.7245	27.25 *	104.48	84.48	57.23
Vertical	Peak	48.7445	32.43 *	104.48	84.48	52.05
Vertical	Quasi-Peak	74.5320	31.08	-	40.00	8.92
Horizontal	Peak	74.7527	36.53 *	104.48	84.48	47.95
Vertical	Quasi-Peak	132.3765	18.16 *	-	43.50	25.34
Horizontal	Quasi-Peak	132.6972	27.22	-	43.50	16.28
Vertical	Quasi-Peak	249.9940	24.57 *	-	46.00	21.43
Horizontal	Quasi-Peak	250.0050	30.05	-	46.00	15.95
Horizontal	Peak	501.6129	32.05 *	104.48	84.48	52.43
Vertical	Peak	501.6239	33.65 *	104.48	84.48	50.83
Vertical	Peak	1499.8220	39.17 *	-	74.00	34.83
Vertical	Average	1499.8220	33.40 *	-	54.00	20.60
Horizontal	Peak	1500.1150	38.61 *	-	74.00	35.39
Horizontal	Average	1500.1150	33.54 *	-	54.00	20.46

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

Remarks:

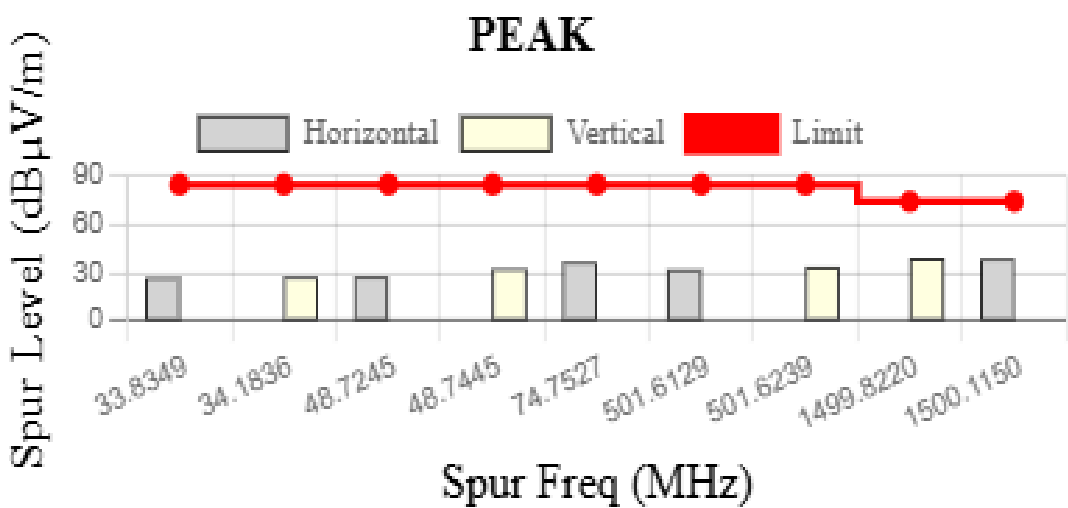
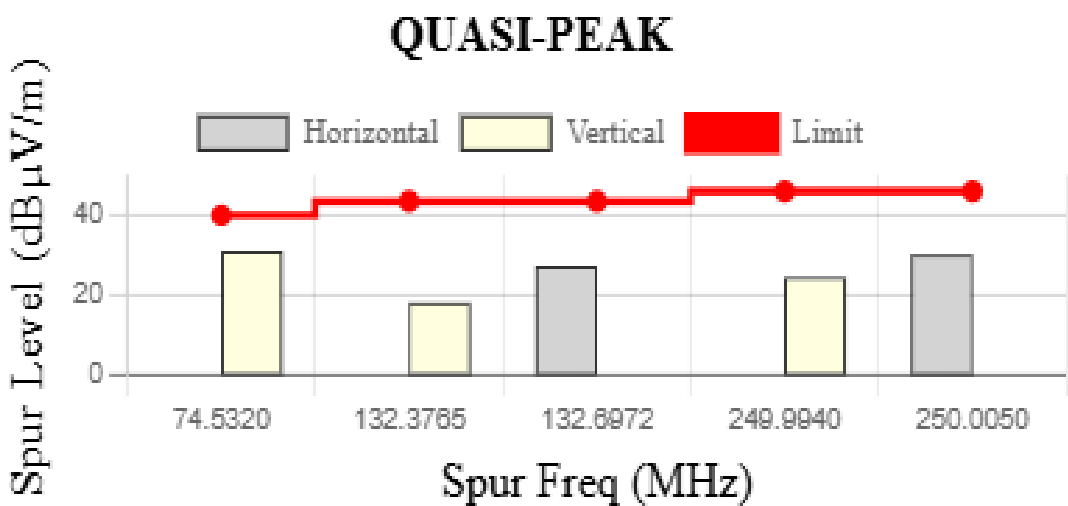
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

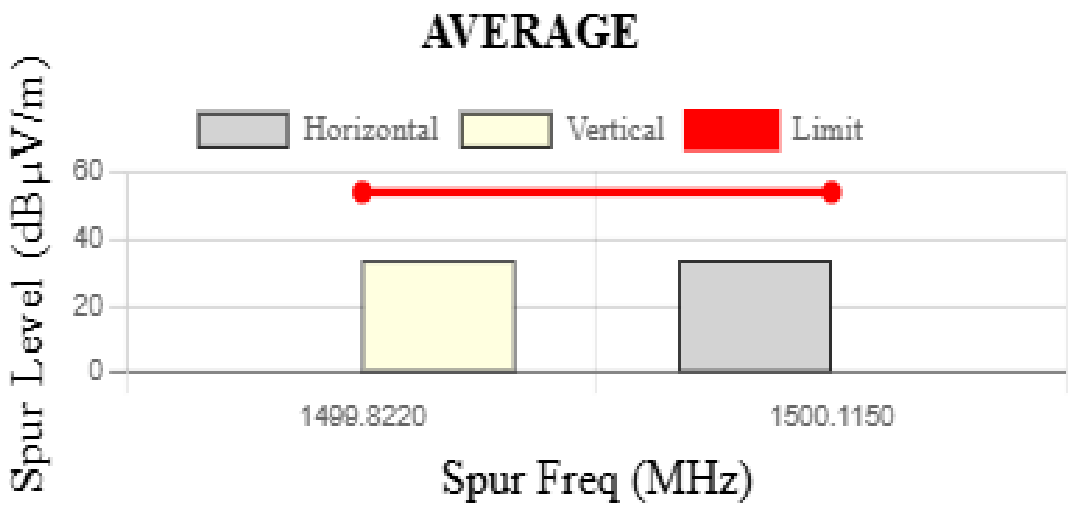
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

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 : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth (kHz) : 2000.0000
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)
Vertical	Peak	31.5464	29.18 *	104.48	84.48	55.31
Horizontal	Peak	32.0978	28.06 *	104.48	84.48	56.43
Horizontal	Peak	48.6930	25.59 *	104.48	84.48	58.89
Vertical	Peak	48.9588	28.73 *	104.48	84.48	55.75
Vertical	Peak	81.0690	32.76 *	104.48	84.48	51.73
Horizontal	Peak	81.2698	33.28 *	104.48	84.48	51.20
Vertical	Quasi-Peak	130.5514	18.91 *	-	43.50	24.59
Horizontal	Quasi-Peak	130.8121	28.86	-	43.50	14.64
Horizontal	Quasi-Peak	250.0020	33.92	-	46.00	12.08
Vertical	Quasi-Peak	250.0120	27.41	-	46.00	18.59
Horizontal	Peak	501.5890	35.01 *	104.48	84.48	49.47
Vertical	Peak	501.6060	35.13 *	104.48	84.48	49.35
Horizontal	Peak	1499.8450	38.78 *	-	74.00	35.22
Horizontal	Average	1499.8450	33.48 *	-	54.00	20.52
Vertical	Peak	1500.0900	39.59 *	-	74.00	34.41
Vertical	Average	1500.0900	34.46	-	54.00	19.54

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

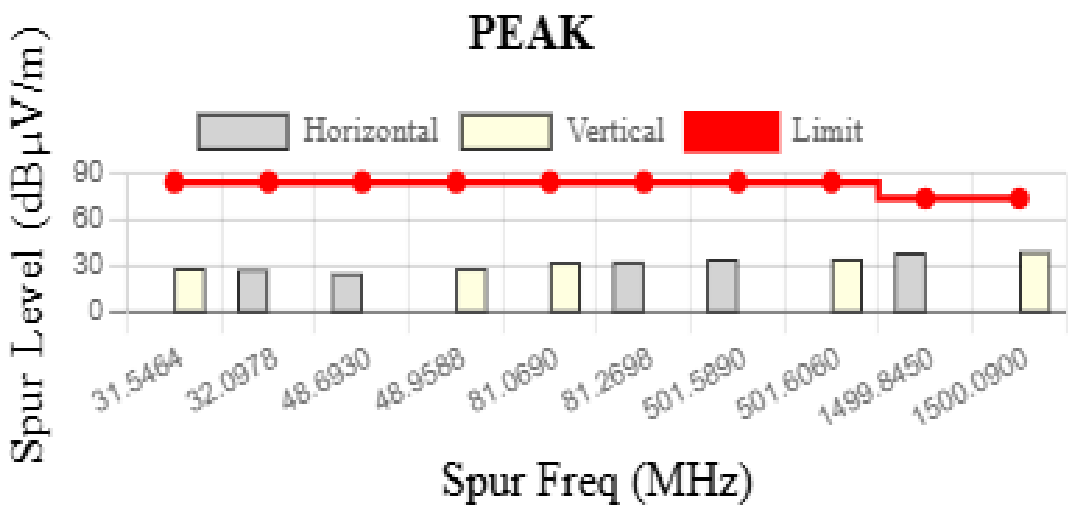
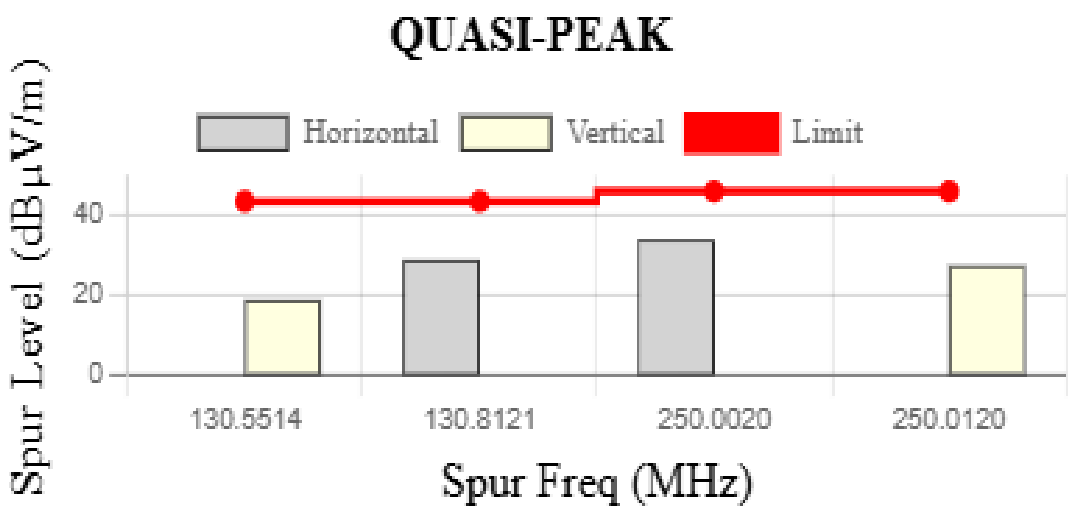
Remarks:

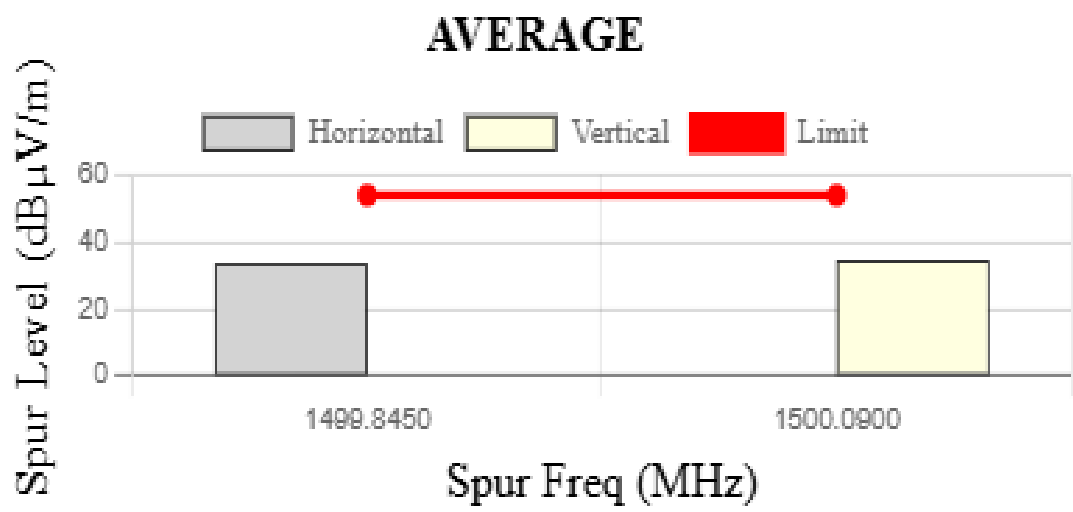
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*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 : 1467N00-EMC-00042

FCC ID : AZ492FT7189 IC : 109U-92FT7189
Model No : AAM29JNN9YA1AN Serial No : 008TCF1512
Battery : - Charger : -
Accessory : HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01
Test Mode : BTLE - GFSK Channel SP/Bandwidth (kHz) : 2000.0000
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)
Vertical	Peak	32.9113	29.40 *	104.48	84.48	55.08
Horizontal	Peak	33.4528	26.41 *	104.48	84.48	58.07
Vertical	Peak	49.8356	38.82 *	104.48	84.48	45.66
Horizontal	Peak	49.8585	25.16 *	104.48	84.48	59.32
Horizontal	Peak	79.1232	33.56 *	104.48	84.48	50.92
Vertical	Peak	79.2281	31.77 *	104.48	84.48	52.71
Horizontal	Peak	141.4402	37.61 *	104.48	84.48	46.88
Vertical	Peak	141.7109	29.05 *	104.48	84.48	55.43
Vertical	Quasi-Peak	250.0050	27.79	-	46.00	18.21
Horizontal	Quasi-Peak	250.0180	33.89	-	46.00	12.11
Horizontal	Peak	501.5950	34.91 *	104.48	84.48	49.57
Vertical	Peak	501.6079	35.51 *	104.48	84.48	48.97
Horizontal	Peak	1499.9450	38.72 *	-	74.00	35.28
Horizontal	Average	1499.9450	32.83 *	-	54.00	21.17
Vertical	Peak	1500.1110	39.74 *	-	74.00	34.26
Vertical	Average	1500.1110	35.33	-	54.00	18.67
Vertical	Peak	4879.8600	44.97 *	-	74.00	29.03
Vertical	Average	4879.8600	34.58	-	54.00	19.42
Horizontal	Peak	4879.9340	45.56 *	-	74.00	28.44
Horizontal	Average	4879.9340	34.97	-	54.00	19.03

Temperature (°C) : 23.6 Humidity (%) : 68.9
Test Performed by : Nazrin & Fuad Test Date : Mon, 13 Apr, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

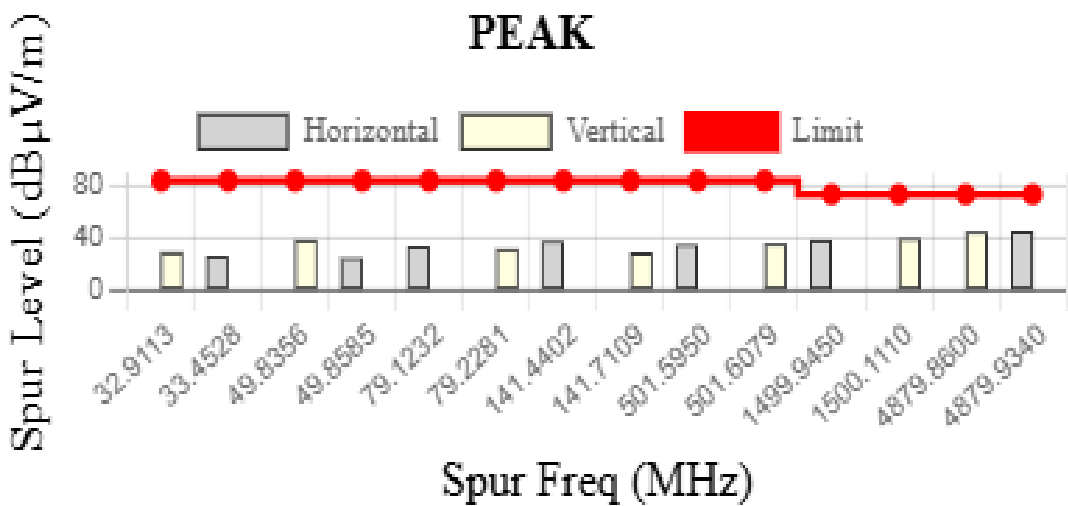
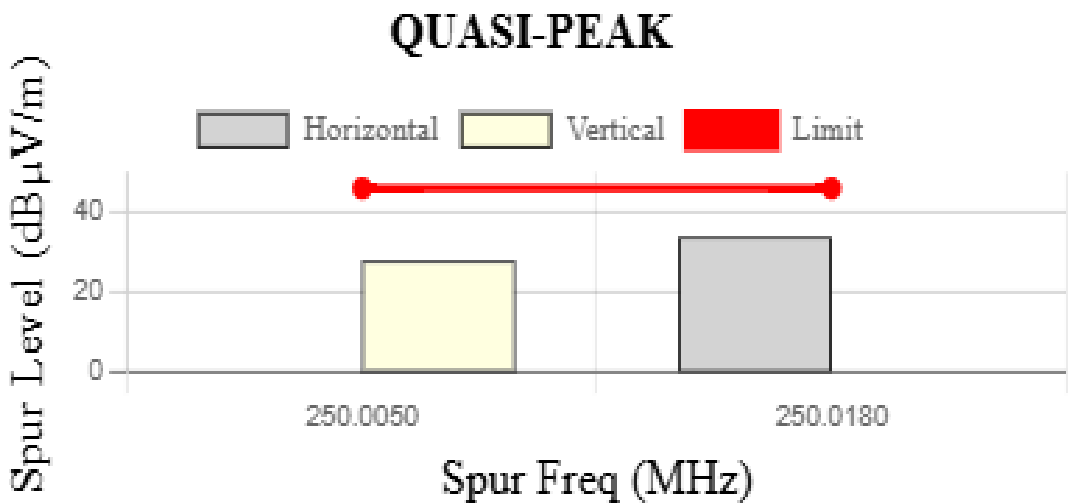
Remarks:

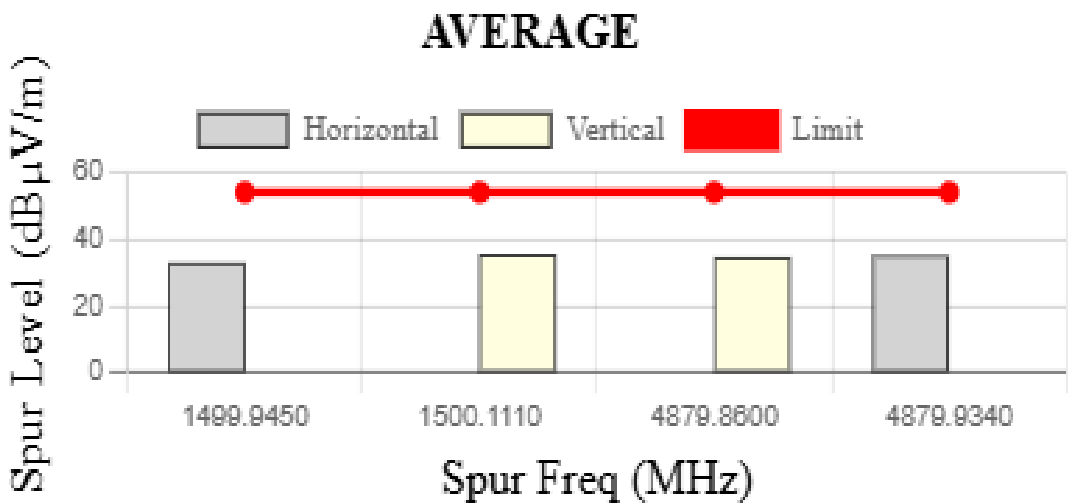
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*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 : 1467N00-EMC-00042

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1512
Battery :	-	Charger :	-
Accessory :	HAD4022A, PMAN4013A, PMLN8805A, RMN5050A-C4, RSN4005A-CF1, PS000280A02-CF1, 3087791G01		
Test Mode :	BTLE - GFSK	Channel SP/Bandwidth (kHz) :	2000.0000
Test Frequency (MHz) :	2478.0000	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)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Quasi-Peak	74.2986	24.04	-	40.00	15.96
Vertical	Quasi-Peak	74.3945	26.23	-	40.00	13.77
Horizontal	Peak	89.4009	31.79 *	104.48	84.48	52.69
Vertical	Peak	89.4069	33.06 *	104.48	84.48	51.42
Vertical	Peak	141.7840	27.61 *	104.48	84.48	56.87
Horizontal	Peak	142.1756	37.32 *	104.48	84.48	47.17
Horizontal	Quasi-Peak	250.0010	33.71	-	46.00	12.29
Vertical	Quasi-Peak	250.0090	27.23	-	46.00	18.77
Vertical	Peak	501.6129	35.41 *	104.48	84.48	49.07
Horizontal	Peak	501.6129	34.52 *	104.48	84.48	49.96
Vertical	Peak	949.8801	28.92 *	104.48	84.48	55.57
Horizontal	Peak	950.0440	31.25 *	104.48	84.48	53.23
Horizontal	Peak	1499.9270	38.32 *	-	74.00	35.68
Horizontal	Average	1499.9270	30.31 *	-	54.00	23.69
Vertical	Peak	1500.2210	38.52 *	-	74.00	35.48
Vertical	Average	1500.2210	32.48 *	-	54.00	21.52

Temperature (°C) :	23.6	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 13 Apr, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

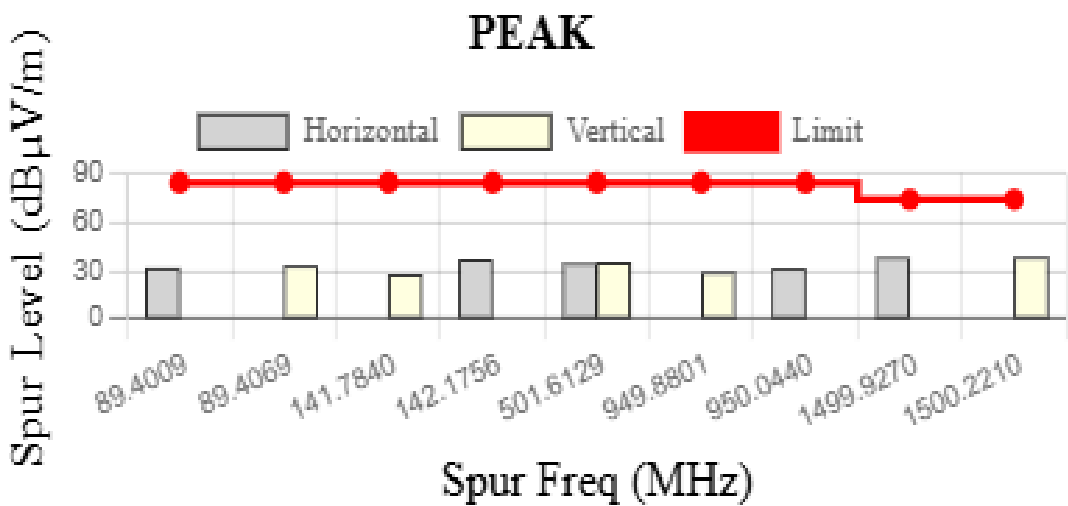
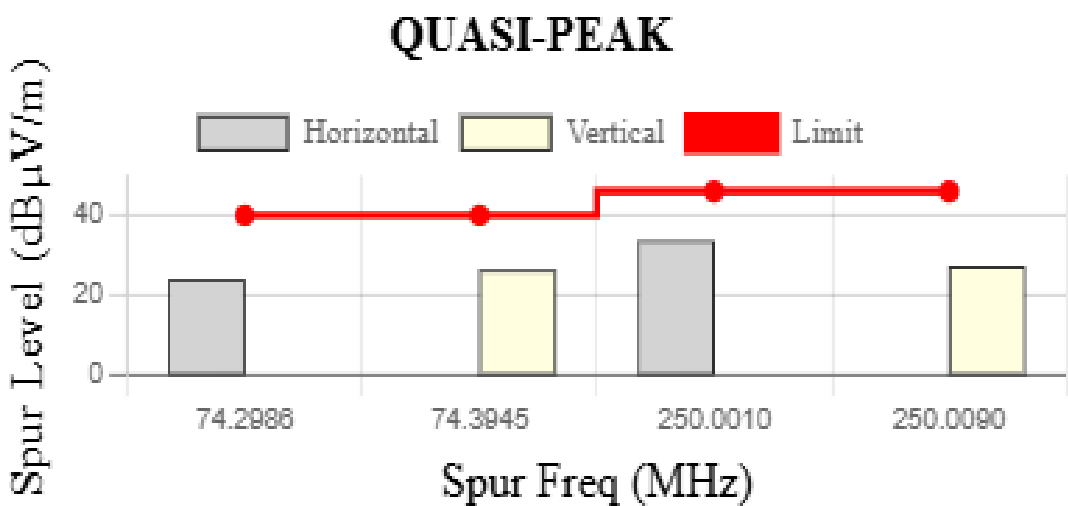
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

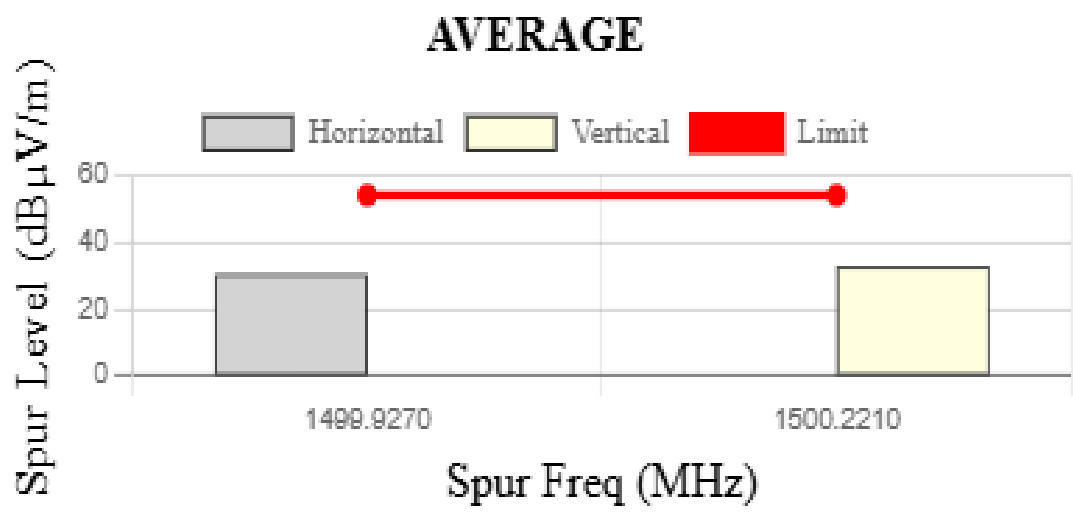
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

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

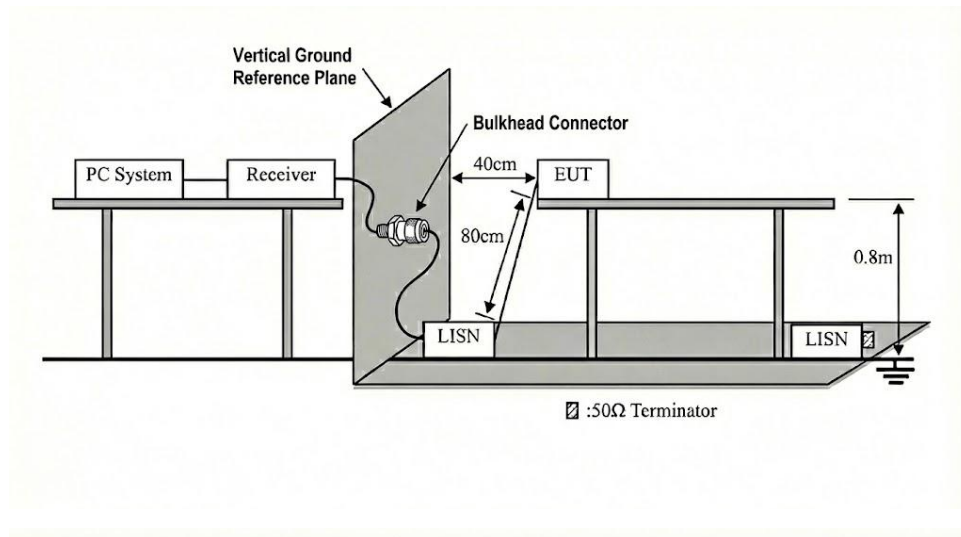
2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.





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.		

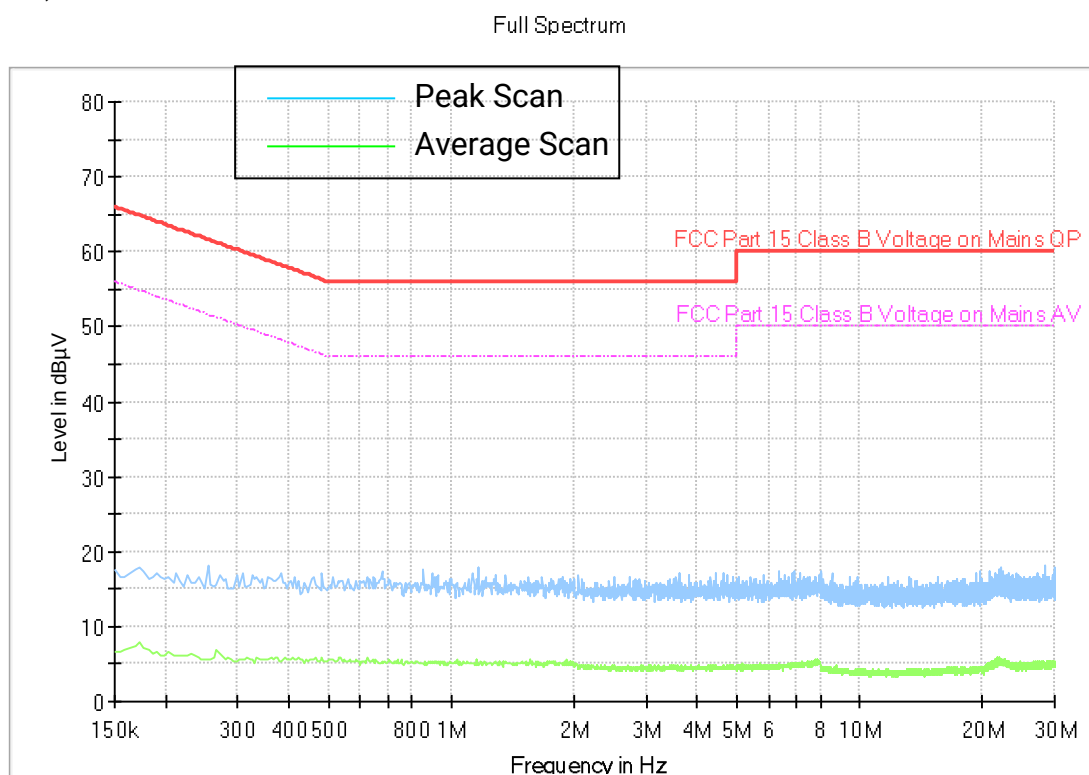
Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

6.7.3 Test Result

Report ID: 1467N00-EMC-00042
Temperature: 22.2 °C
Humidity: 64.4 %RH
Tester: Helmy
Date of Test: 20 April 2026

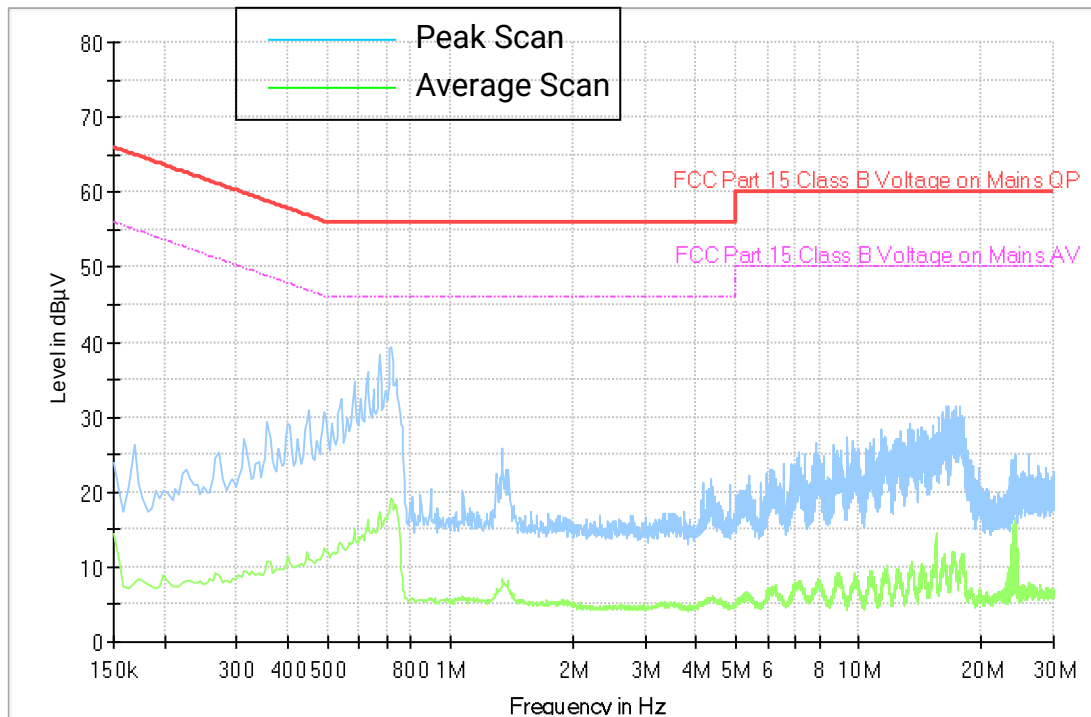
120 VAC, 60Hz

1) Ambient

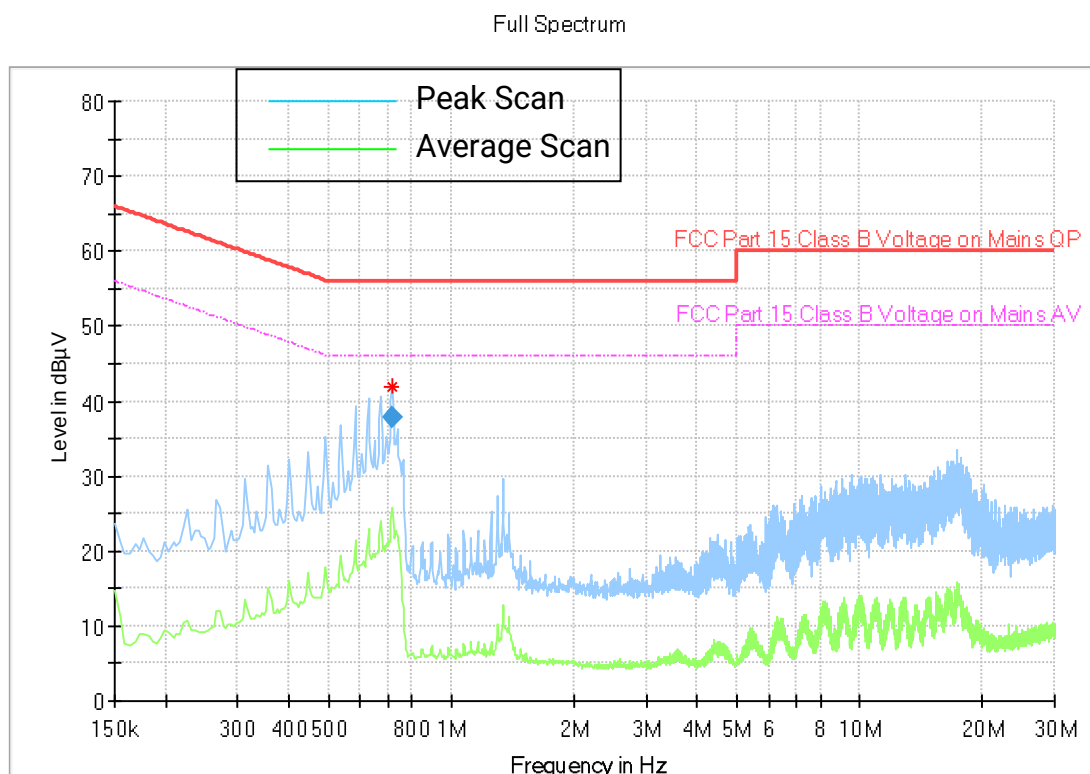


2) PSU Alone

Full Spectrum



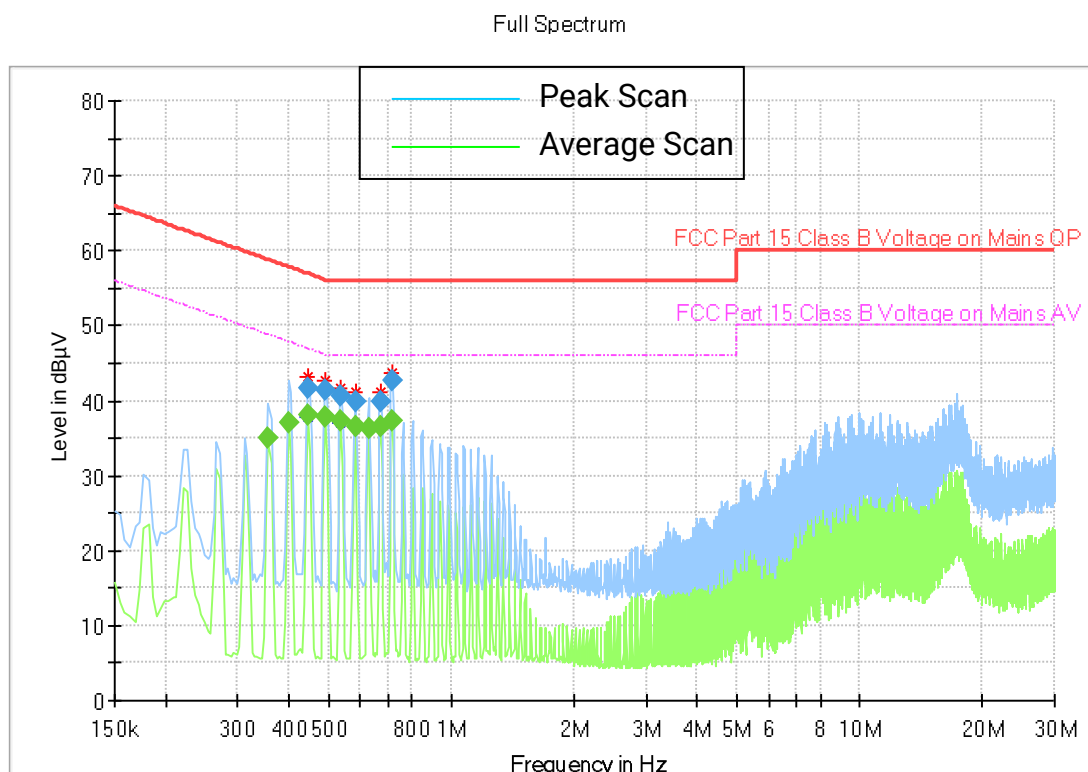
3) PSU + Radio Off



QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.717000	37.70	---	56.00	18.30	N	ON	9.9

4) PSU + Radio Standby

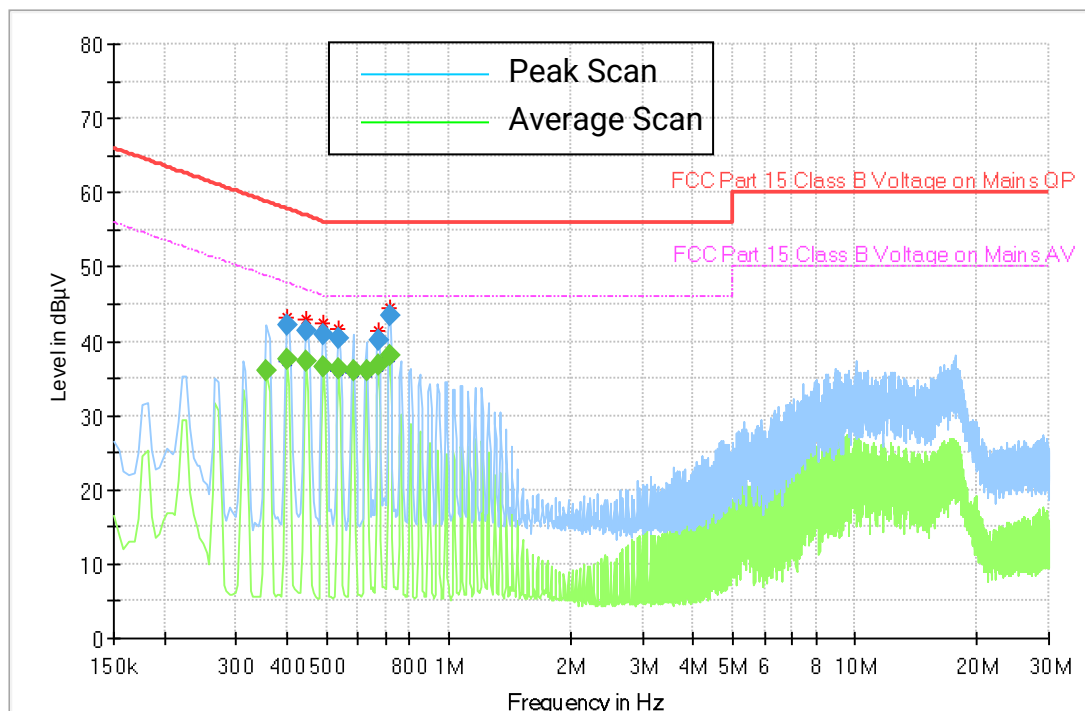


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.357000	---	35.05	48.80	13.75	N	ON	10.0
0.402000	---	37.09	47.81	10.72	N	ON	10.0
0.447000	---	37.99	46.93	8.94	N	ON	10.0
0.447000	41.75	---	56.93	15.18	N	ON	10.0
0.492000	---	37.87	46.13	8.27	N	ON	10.0
0.492000	41.38	---	56.13	14.76	N	ON	10.0
0.537000	---	37.19	46.00	8.81	N	ON	10.0
0.537000	40.59	---	56.00	15.41	N	ON	10.0
0.582000	39.79	---	56.00	16.21	N	ON	10.0
0.582000	---	36.62	46.00	9.38	N	ON	10.0
0.627000	---	36.40	46.00	9.60	N	ON	10.0
0.672000	39.84	---	56.00	16.16	N	ON	9.9
0.672000	---	36.64	46.00	9.36	L1	ON	9.9
0.717000	---	37.33	46.00	8.67	N	ON	9.9
0.717000	42.68	---	56.00	13.32	L1	ON	9.9

5) PSU + Radio Standby (BTLE1M TX CH: 2402, MOD: GFSK)

Full Spectrum

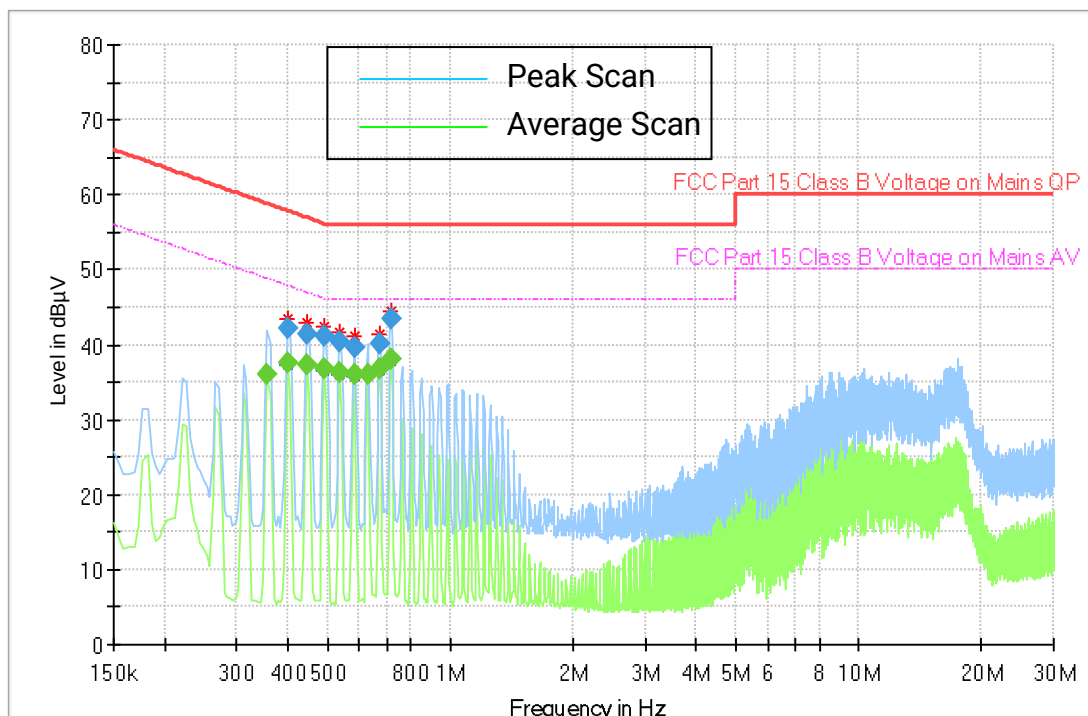


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.357000	---	36.16	48.80	12.64	N	ON	10.0
0.402000	42.05	---	57.81	15.76	N	ON	10.0
0.402000	---	37.45	47.81	10.37	N	ON	10.0
0.447000	41.36	---	56.93	15.57	L1	ON	10.0
0.447000	---	37.32	46.93	9.61	N	ON	10.0
0.492000	---	36.65	46.13	9.48	N	ON	10.0
0.492000	41.01	---	56.13	15.12	N	ON	10.0
0.537000	40.28	---	56.00	15.72	L1	ON	10.0
0.537000	---	36.17	46.00	9.83	N	ON	10.0
0.582000	---	35.99	46.00	10.01	N	ON	10.0
0.627000	---	36.01	46.00	9.99	L1	ON	10.0
0.672000	40.09	---	56.00	15.91	L1	ON	9.9
0.672000	---	36.74	46.00	9.26	L1	ON	9.9
0.717000	---	38.02	46.00	7.98	N	ON	9.9
0.717000	43.46	---	56.00	12.54	N	ON	9.9

6) PSU + Radio Standby (BTLE2M TX CH: 2404, MOD: GFSK)

Full Spectrum



QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.357000	---	36.06	48.80	12.74	N	ON	10.0
0.402000	42.08	---	57.81	15.73	N	ON	10.0
0.402000	---	37.49	47.81	10.33	N	ON	10.0
0.447000	---	37.36	46.93	9.57	N	ON	10.0
0.447000	41.45	---	56.93	15.48	N	ON	10.0
0.492000	41.06	---	56.13	15.07	N	ON	10.0
0.492000	---	36.75	46.13	9.38	N	ON	10.0
0.537000	40.33	---	56.00	15.67	N	ON	10.0
0.537000	---	36.22	46.00	9.78	N	ON	10.0
0.582000	---	36.00	46.00	10.00	L1	ON	10.0
0.582000	39.70	---	56.00	16.30	N	ON	10.0
0.627000	---	36.03	46.00	9.97	L1	ON	10.0
0.672000	40.06	---	56.00	15.94	N	ON	9.9
0.672000	---	36.74	46.00	9.26	L1	ON	9.9
0.717000	---	37.99	46.00	8.01	N	ON	9.9
0.717000	43.42	---	56.00	12.58	N	ON	9.9

END OF TEST REPORT