

May 15, 2026

ASSA ABLOY Opening Solutions
Baruch Spence
10027 S. 51st St., Suite 102
Phoenix, AZ 85044

Dear Baruch Spence,

Enclosed is the Electromagnetic Compatibility for the ASSA ABLOY Opening Solutions, KS210, tested to the requirements of:

- FCC 47 CFR §15.247
- ISSED RSS-247 Issue 4

Thank you for using the services of Eurofins E&E Testing NA, LLC. Please contact me if you have any questions regarding these results or if Eurofins E&E can be of further service to you.

Sincerely,

Rheine Nguyen

Documentation Department
Eurofins E&E Testing NA, LLC.

Reference: WIRS140547-FCC 15.247_RSS-247 Rev. 1



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Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	April 27, 2026	Initial Issue.
1	May 15, 2026	Disclaimer Updated.

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1.0 Testing Summary

The ASSA ABLOY Opening Solutions, KS210 was found to be compliant to the following specification(s).

- FCC 47 CFR §15.247
- ISSED RSS-247 Issue 4



Chin Ming Lui
Senior Wireless Test Engineer

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements.

Summary of Tests

Test Item	FCC Part	Industry Canada	Result
6 dB Bandwidth	§15.247(a)(2)	RSS-247, 6.3.1	Complies
99% Occupied Bandwidth	-	RSS-GEN	Complies
Maximum Conducted Output Power	§15.247(b)(3)	RSS-247, 6.3.2	Complies
Power Spectral Density	§15.247(e)	RSS-247, 6.3.1	Complies
Conducted Spurious Emissions	§15.247(d)	RSS-247, 6.6	Complies
Band-Edge	§15.247(d)	RSS-247, 6.6	Complies
Transmitter Radiated Emissions	§15.247(d), §15.209, §15.205	RSS-247, 6.6	Complies
Antenna Requirement	§15.203	RSS-GEN	Complies

2.0 Overview

Eurofins E&E Testing NA, LLC. was contracted by ASSA ABLOY Opening Solutions to perform testing on the KS210, under purchase order number 366127-O4-00271.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of ASSA ABLOY Opening Solutions, KS210.

The results obtained relate only to the item(s) tested.

Model(s) Tested:	KS210
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2.1 Test Site

All testing was performed at Eurofins E&E Testing NA, LLC., 3162 Belick St. Santa Clara, CA 95054. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology. Eurofins E&E Testing NA, LLC. has been accredited by the American Association for Laboratory Accreditation (A2LA) (Certificate #: 0591.02) in accordance with ISO/IEC 17025:2017.

2.2 FCC ID and IC ID

FCC ID: VC3-KS210K

IC ID: 7160A-KS210K

2.3 Measurement Uncertainty

Measurement uncertainty calculated as per NIST Technical Note (TN) 1297 and ANSI / NCSL Z540-2, as equivalent to EN 55016-4-2 / IEC CISPR 16-4-2.

Test Method	Typical Expanded Uncertainty (dB)	K	Confidence Level
Radiated Emissions, (30 MHz – 1 GHz)	±4.61	2	95%
Radiated Emissions, (1 GHz – 18 GHz)	±4.63	2	95%
Radiated Emissions, (18 GHz – 40 GHz)	±4.22	2	95%
Conducted Emission Voltage	±3.03	2	95%
Conducted Emission Telecom	±3.87	2	95%

2.4 Equipment Overview and Test Configuration

Name of EUT/Model:	KS210-K
Additional Models Covered, but not tested:	N/A
Description of EUT and Intended Use:	The KS210-K is a wired (DC-powered), fixed-installation server cabinet lock with a keypad input. It is designed to read 13.56 MHz radio frequency identification (RFID) physical credentials and 2.402 GHz–2.480 GHz Bluetooth® Low Energy (BLE) wireless credentials from a mobile device.
Radio Specifications:	Bluetooth Low Energy (BLE): 2.402 GHz – 2.480 GHz Data Rates: 1 Mbps and 2 Mbps Packet Payload: PRBS9
Monitoring Method(s):	OSDP Test Box
Configuration(s):	N/A
EUT Power Requirement	
Voltage:	12-24V
AC or DC	DC
Voltage Frequency:	N/A
Number of Phases:	N/A
Amperage:	12VDC: 50 mA average, 400 mA peak, 24VDC: 40 mA average, 400 mA peak
Uses an external AC/DC Adapter:	No
Battery Return Configuration (DC-C, DC-I, or either):	N/A
Physical Description	
EUT Arrangement:	-
System with Multiple Chassis:	No
Size (HxWxD) inches:	10.8 x 1.75 x 2.25
Weight (lbs):	0.7
Emissions Class Declaration:	Class B
Other Info:	
Highest frequency used in device:	2480 MHz (BLE High Channel)
EUT Software (internal to EUT):	-
Support Software (used by support PC to exercise EUT):	STM32CubeMonRF

Note: EUT information was provided by ASSA ABLOY Opening Solutions.

Equipment Configuration List

Name/Description	Part Number	Serial Number	Rev. #	Sample
KS210 Keypad Server Cabinet Lock	KS210-D-IK	N/A	1	Conducted
KS210 Keypad Server Cabinet Lock	KS210-D-IK	N/A	1	Radiated

Note: Equipment Configuration information was provided by ASSA ABLOY Opening Solutions.

Support Equipment List

Name/Description	Manufacturer	Model
Test Laptop	DELL	Latitude 5420

Note: Support Equipment information was provided by ASSA ABLOY Opening Solutions.

Ports and Cabling List

N/A

Antenna Information

Radio	Antenna Type	Manufacturer	Part No	Frequency Range	Peak Gain
BLE	Patch	Yageo	ANTX200P001B24003	2.4 – 2.5 GHz	4.4 dBi
13.56 MHz RFID	Tuned Coil	Custom	Embedded 3-Turn PCBA Coil	13.56 MHz	0 dBi

Note: Antenna information was provided by ASSA ABLOY Opening Solutions. Eurofins E&E Testing NA, LLC did not test or verify the accuracy of the antenna information.

Test Configuration

The BLE radio was configured to low, middle, and high channels for both 1 Mbps and 2 Mbps data rates.

Channel	Frequency (MHz)	Power Setting
Low	2402	31 (+6 dBm)
Mid	2440	31 (+6 dBm)
High	2480	31 (+6 dBm)

2.5 Modifications to the EUT

No modifications were made to the EUT.

2.6 Modifications to the Standard

No modifications were made to the Test Standard.

2.7 Disposition of EUT

The test sample including all support equipment (if any), submitted to the Electromagnetic Compatibility Lab for testing was returned to ASSA ABLOY Opening Solutions upon completion of testing.

3.0 Electromagnetic Compatibility Criteria

3.1 Antenna-Port Conducted Measurements

Test Standard:	FCC 47 CFR §15.247 Operation within the 2400-2483.5 MHz band, including output power and bandwidth requirements ISED RSS-247 Issue 4 Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands ISED RSS-GEN Issue 5 General Requirements for compliance of Radio Apparatus ANSI C63.10-2020 Measurement procedures for unlicensed intentional radiators. FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Guidance For Compliance Measurements On Digital Transmission System, Frequency Hopping Spread Spectrum System, And Hybrid System Devices Operating Under Section 15.247 Of The FCC Rules
Test Method:	Conducted transmitter measurements from the 2.4 GHz BLE radio were performed by connecting the EUT RF port to the measurement instrument through a calibrated attenuation path in accordance with ANSI C63.10-2020. The BLE transmitter was exercised on the low, middle, and high channels using the worst-case combination of data rate, packet payload, and output power defined in the Test Configuration table. The same conducted measurement data were used to demonstrate compliance with both FCC §15.247 and ISED RSS-247/RSS-Gen requirements.
Test Procedure:	For each BLE channel, the EUT was configured for continuous transmission at the worst-case 1 Mbps and 2 Mbps data rates with maximum packet length and maximum output power. The transmitter output was connected to a spectrum analyzer, power meter, or equivalent measuring instrument through calibrated cables and attenuators, and all external losses were accounted for in the final results. The applicable conducted parameters were measured using the detector, resolution bandwidth, video bandwidth, and sweep settings required by ANSI C63.10 for the specific test item under evaluation. Analyzer readings were corrected for cable loss, attenuator loss, and any external gain or loss to obtain the final conducted values reported. Measurements for the low, middle, and high BLE channels were compared to the applicable limits of FCC §15.247 and ISED RSS-247 / RSS -Gen to determine compliance.

Test Results:

Test Standard:	FCC Part 15 Subpart C §15.247 (Per FCC KDB 558074 D01 15.247 Meas Guidance v05r02; ANSI C63.10-2020) ISED RSS-247 Issue 4
Test Name	Antenna-Port Conducted Measurements
Test Dates:	02/17/2026
Laboratory	Eurofins E&E Testing NA, LLC.
Test Engineer:	Chin Ming Lui
Test Results:	Compliant
Ambient Temperature (°C):	23.1
Relative Humidity (%):	42
Atmospheric Pressure (kPa):	101.3

Test Data (FCC 15.247 and ISSED RSS-247 Antenna-Port Conducted Measurements)

3.1.1 Duty Cycle

BLE 1 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Duty Cycle	Duty Cycle Correction Factor (dB)
2402	Low	31 (+6dBm)	86.3%	-1.28

Table 1. Duty Cycle: BLE 1 Mbps Test Results



Figure 1. Duty Cycle: BLE 1 Mbps, Low Channel, 2402 MHz Plot

BLE 2 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Duty Cycle	Duty Cycle Correction Factor (dB)
2402	Low	31 (+6dBm)	44.1%	-7.11

Table 2. Duty Cycle: BLE 2 Mbps Test Results

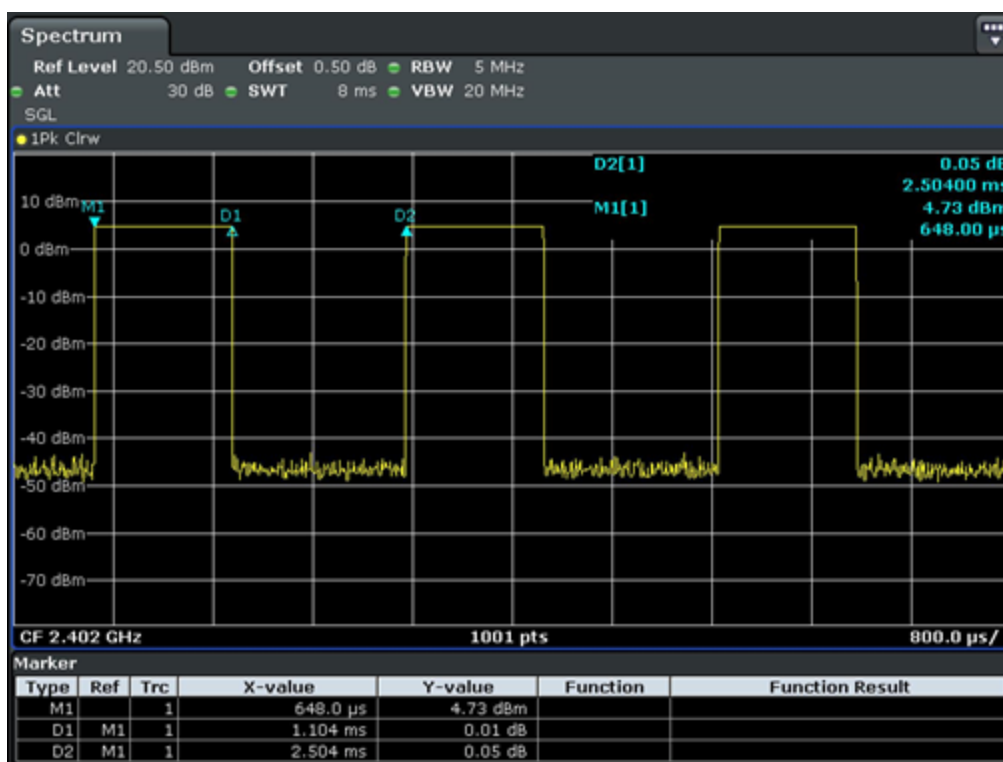


Figure 2. Duty Cycle: BLE 2 Mbps, Low Channel, 2402 MHz Plot

3.1.2 6dB DTS Bandwidth

BLE 1 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	6dB BW (kHz)
2402	Low	31 (+6dBm)	674.3
2440	Mid	31 (+6dBm)	669.3
2480	High	31 (+6dBm)	669.3

Table 3. 6dB DTS Bandwidth: BLE 1 Mbps Test Results

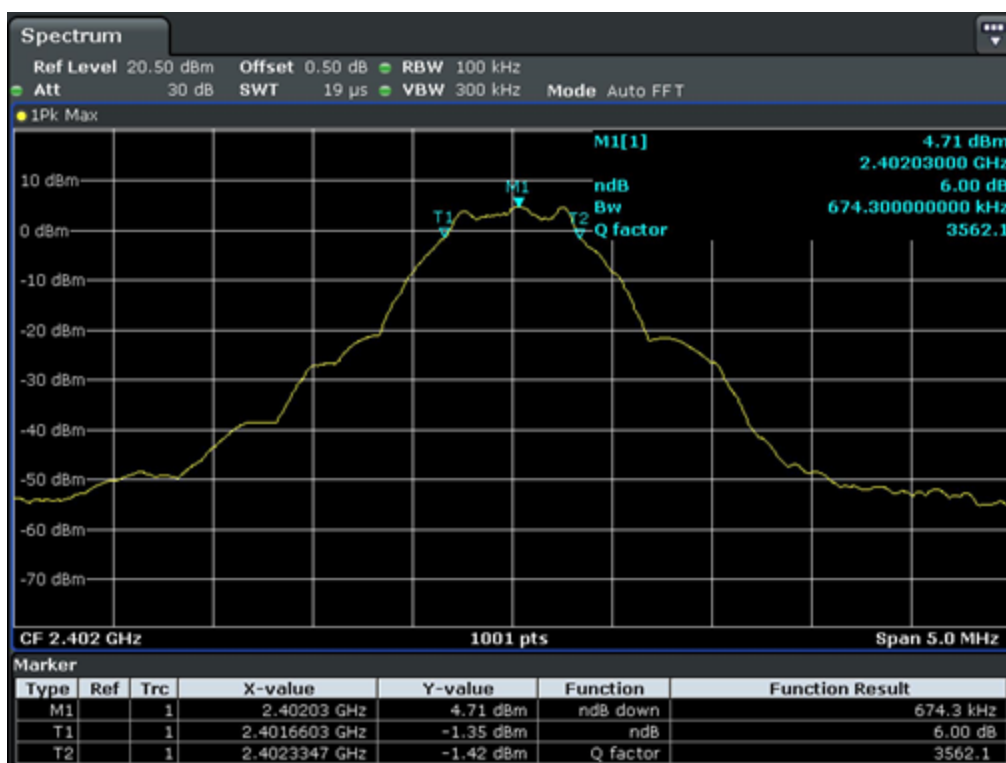


Figure 3. 6dB DTS Bandwidth: BLE 1 Mbps, Low Channel, 2402 MHz Plot

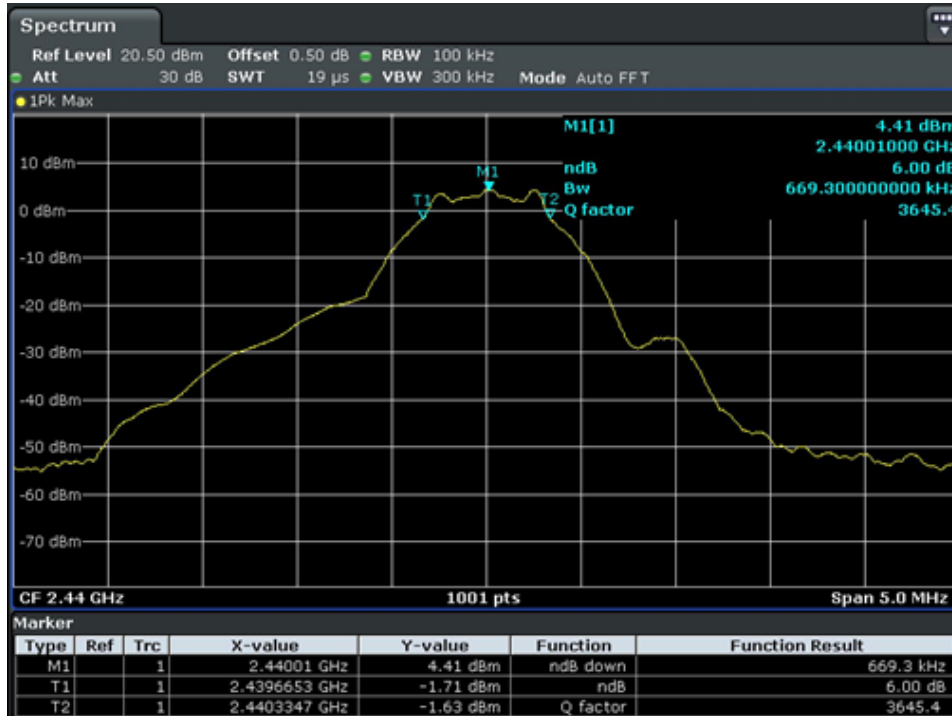


Figure 4. 6dB DTS Bandwidth: BLE 1 Mbps, Mid Channel, 2440 MHz Plot



Figure 5. 6dB DTS Bandwidth: BLE 1 Mbps, High Channel, 2480 MHz Plot

BLE 2 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	6dB BW (kHz)
2402	Low	31 (+6dBm)	839.2
2440	Mid	31 (+6dBm)	839.2
2480	High	31 (+6dBm)	1139.9

Table 4. 6dB DTS Bandwidth: BLE 2 Mbps Test Results

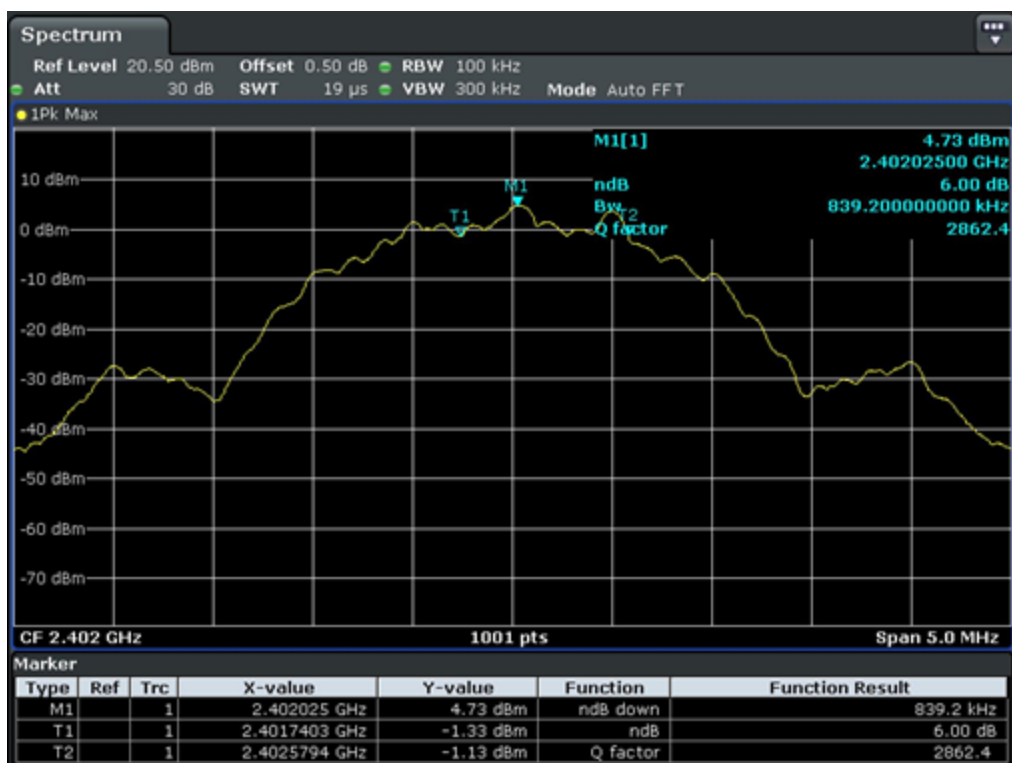


Figure 6. 6dB DTS Bandwidth: BLE 2 Mbps, Low Channel, 2402 MHz Plot

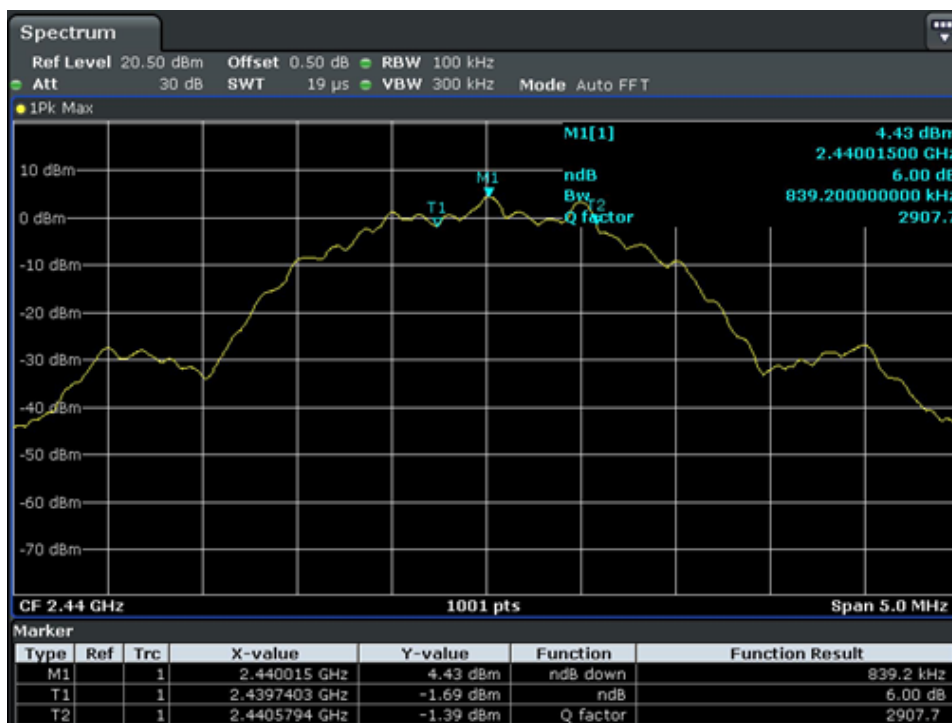


Figure 7. 6dB DTS Bandwidth: BLE 2 Mbps, Mid Channel, 2440 MHz Plot



Figure 8. 6dB DTS Bandwidth: BLE 2 Mbps, High Channel, 2480 MHz Plot

3.1.3 99% Occupied Bandwidth

BLE 1 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	99% OBW (MHz)
2402	Low	31 (+6dBm)	1.0190
2440	Mid	31 (+6dBm)	1.0190
2480	High	31 (+6dBm)	1.0440

Table 5. 99% OBW: BLE 1 Mbps Test Results

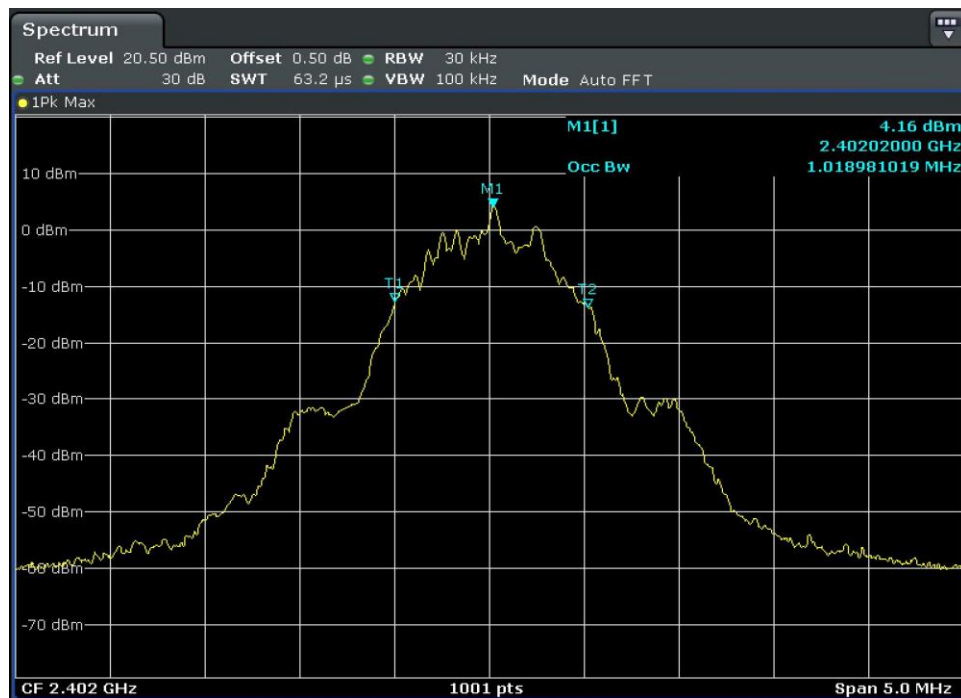


Figure 9. 99% OBW: BLE 1 Mbps, Low Channel, 2402 MHz Plot

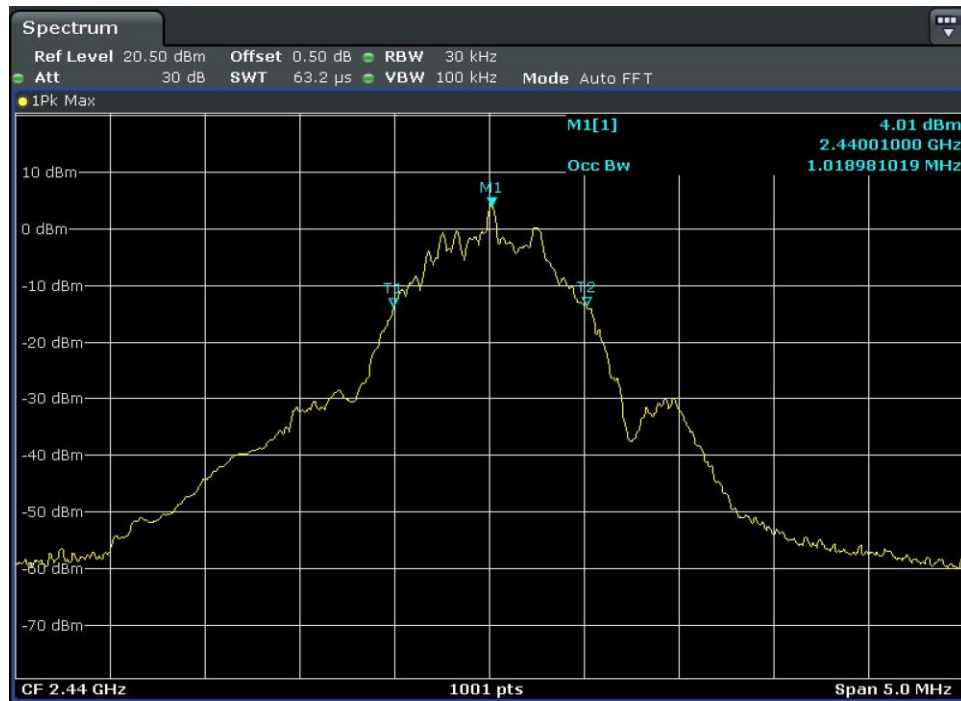


Figure 10. 99% OBW: BLE 1 Mbps, Mid Channel, 2440 MHz Plot

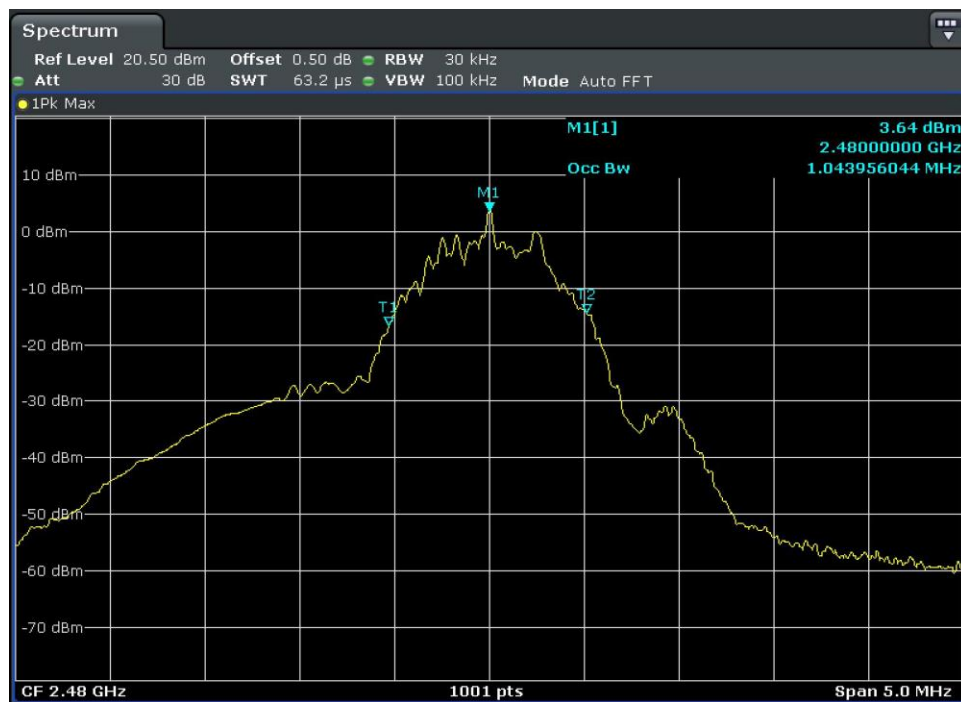


Figure 11. 99% OBW: BLE 1 Mbps, High Channel, 2480 MHz Plot

BLE 2 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	99% OBW (MHz)
2402	Low	31 (+6dBm)	2.0380
2440	Mid	31 (+6dBm)	2.0529
2480	High	31 (+6dBm)	2.0480

Table 6. 99% OBW: BLE 2 Mbps Test Results

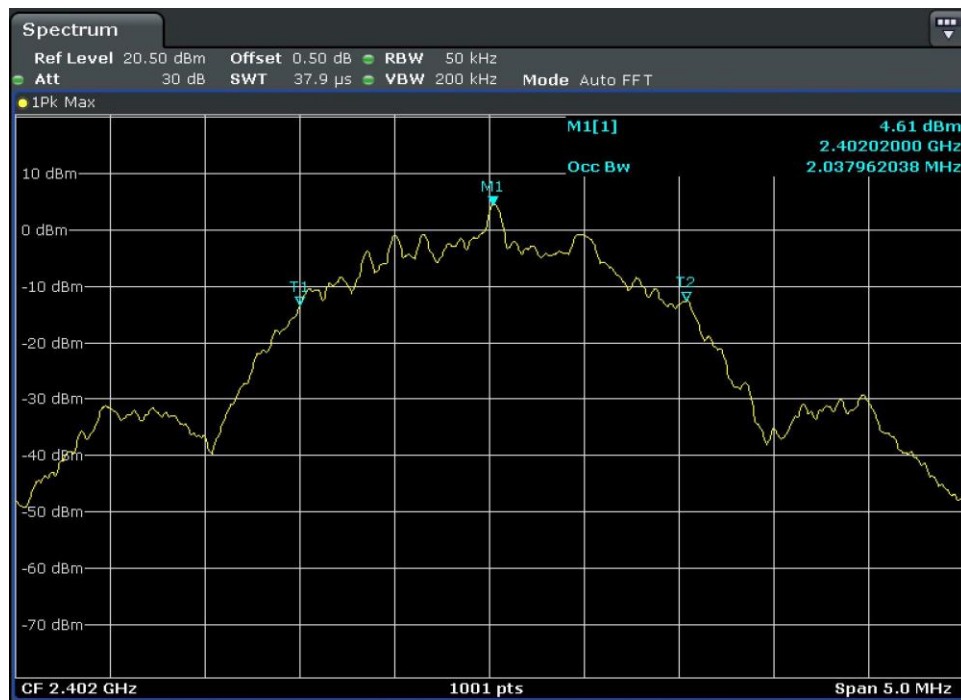


Figure 12. 99% OBW: BLE 2 Mbps, Low Channel, 2402 MHz Plot

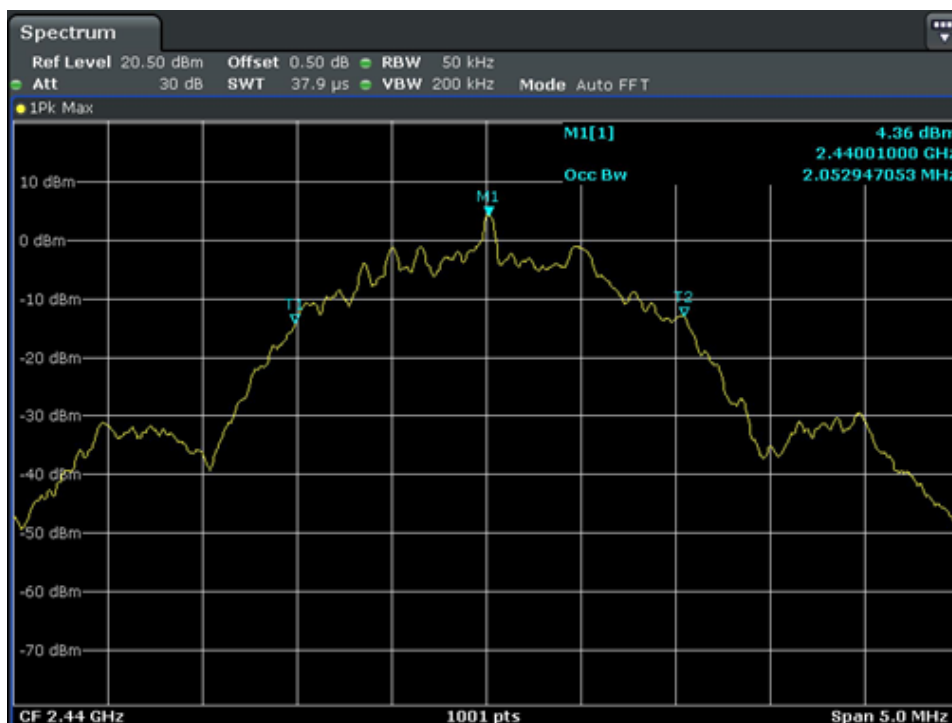


Figure 13. 99% OBW: BLE 2 Mbps, Mid Channel, 2440 MHz Plot

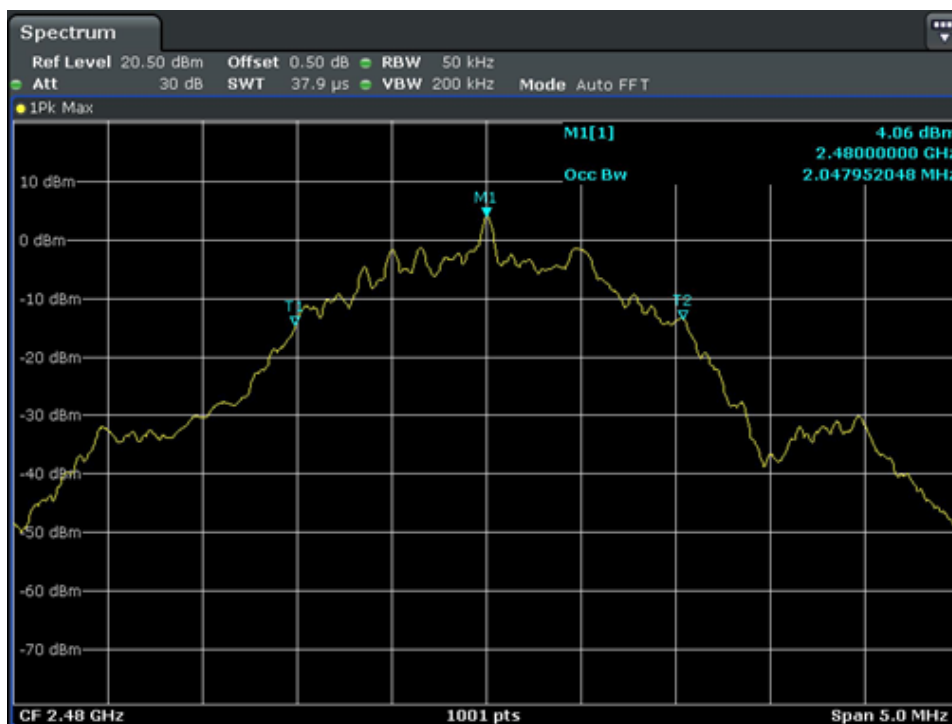


Figure 14. 99% OBW: BLE 2 Mbps, High Channel, 2480 MHz Plot

3.1.4 Maximum Peak Conducted Output Power

BLE 1 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Max Peak Output Power (dBm)
2402	Low	31 (+6dBm)	4.75
2440	Mid	31 (+6dBm)	4.44
2480	High	31 (+6dBm)	4.13

Table 7. Maximum Peak Conducted Output Power: BLE 1 Mbps Test Results

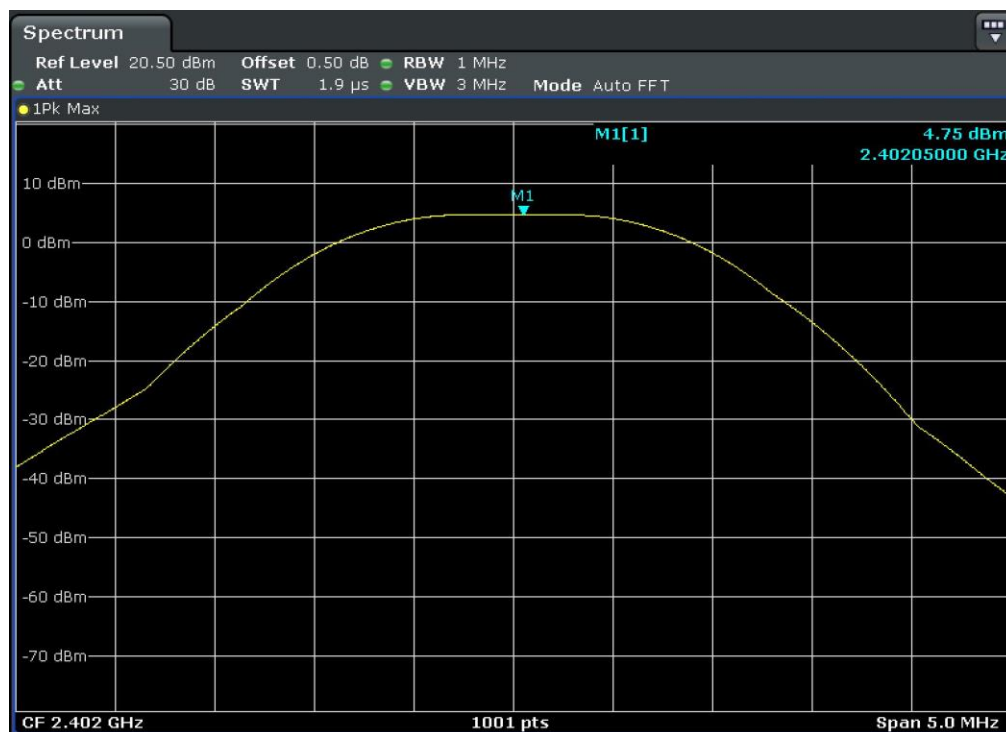


Figure 15. Maximum Peak Conducted Output Power: BLE 1 Mbps, Low Channel, 2402 MHz Plot

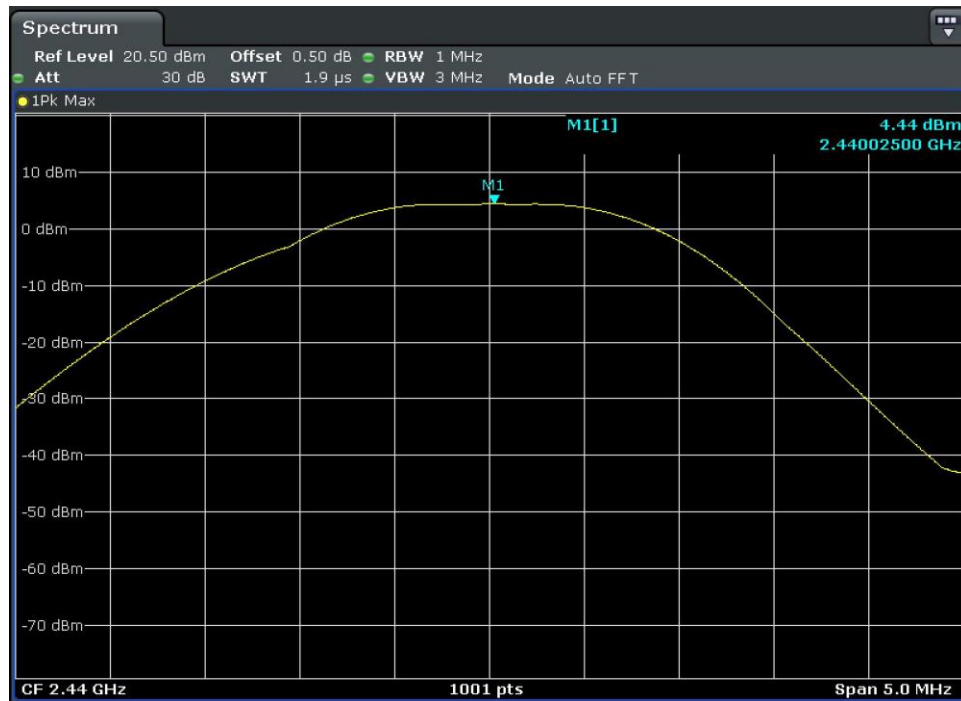


Figure 16. Maximum Peak Conducted Output Power: BLE 1 Mbps, Mid Channel, 2440 MHz Plot

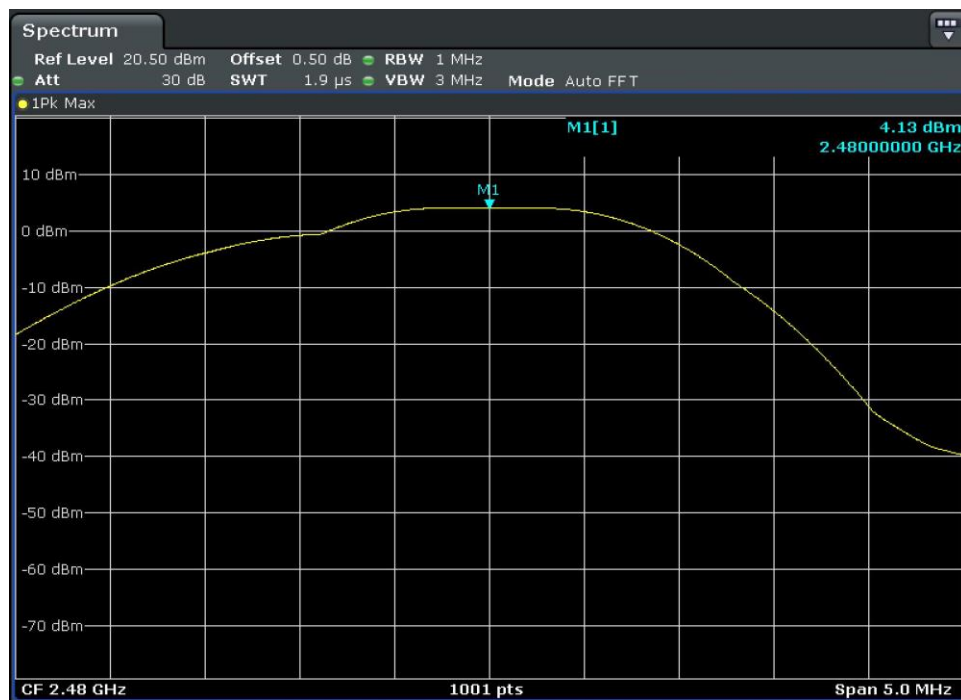


Figure 17. Maximum Peak Conducted Output Power: BLE 1 Mbps, High Channel, 2480 MHz Plot

BLE 2 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Max Peak Output Power (dBm)
2402	Low	31 (+6dBm)	4.75
2440	Mid	31 (+6dBm)	4.48
2480	High	31 (+6dBm)	4.15

Table 8. Maximum Peak Conducted Output Power: BLE 2 Mbps Test Results

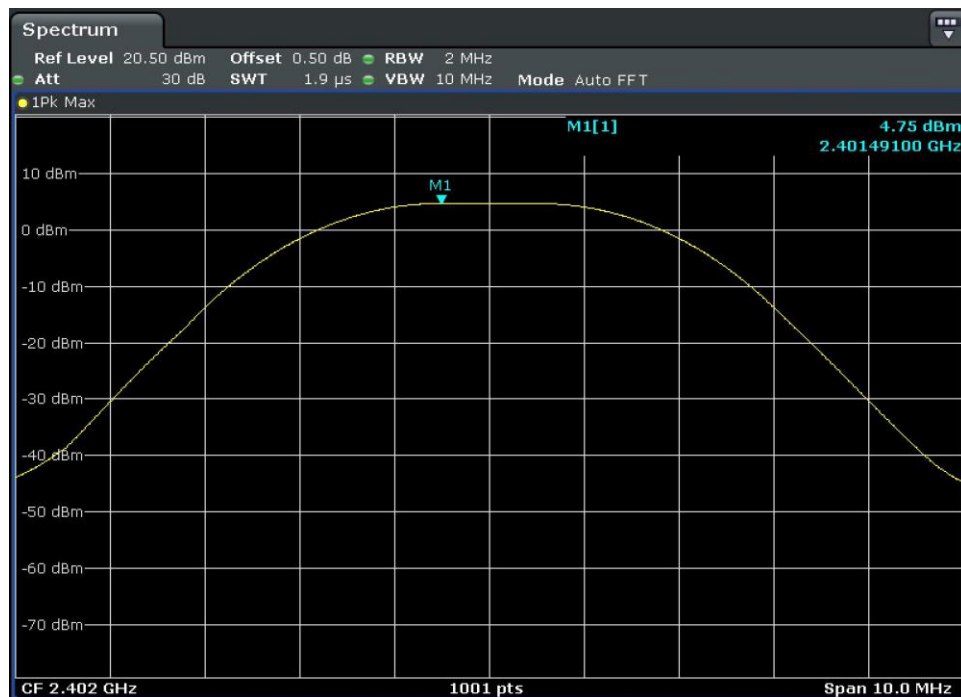


Figure 18. Maximum Peak Conducted Output Power: BLE 2 Mbps, Low Channel, 2402 MHz Plot

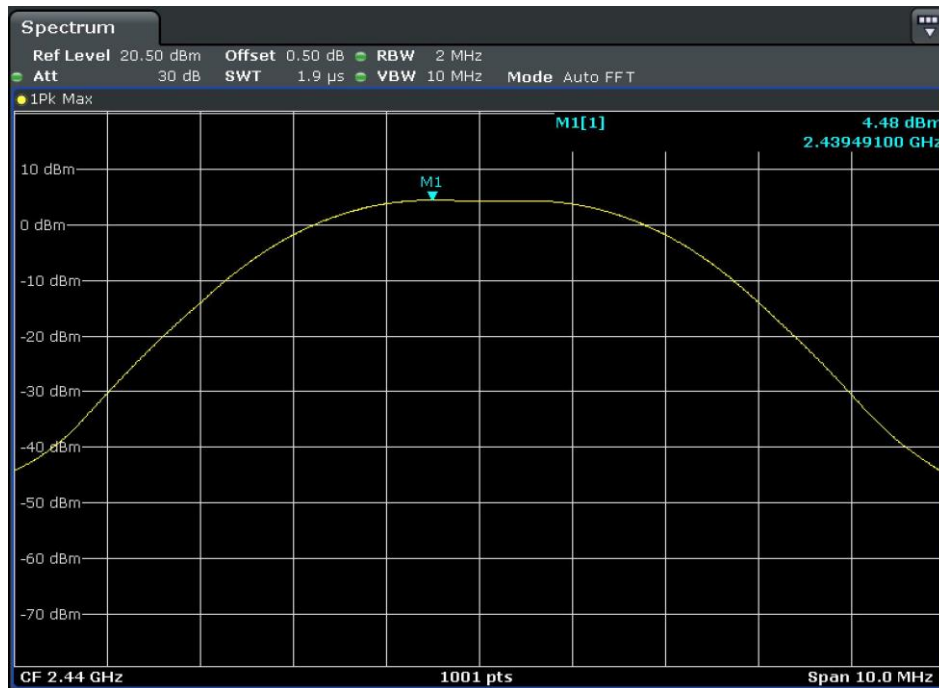


Figure 19. Maximum Peak Conducted Output Power: BLE 2 Mbps, Mid Channel, 2440 MHz Plot

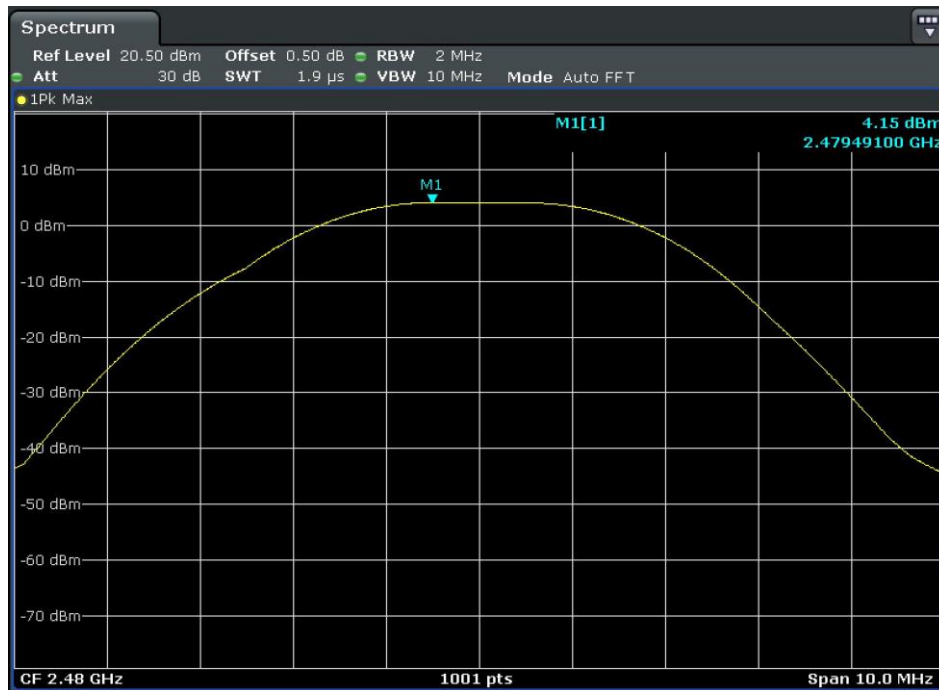


Figure 20. Maximum Peak Conducted Output Power: BLE 2 Mbps, High Channel, 2480 MHz Plot

3.1.5 Power Spectral Density

BLE 1 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Max Peak Power Spectral Density (dBm)
2402	Low	31 (+6dBm)	-10.23
2440	Mid	31 (+6dBm)	-9.98
2480	High	31 (+6dBm)	-10.14

Table 9. Maximum Peak Power Spectral Density: BLE 1 Mbps Test Results

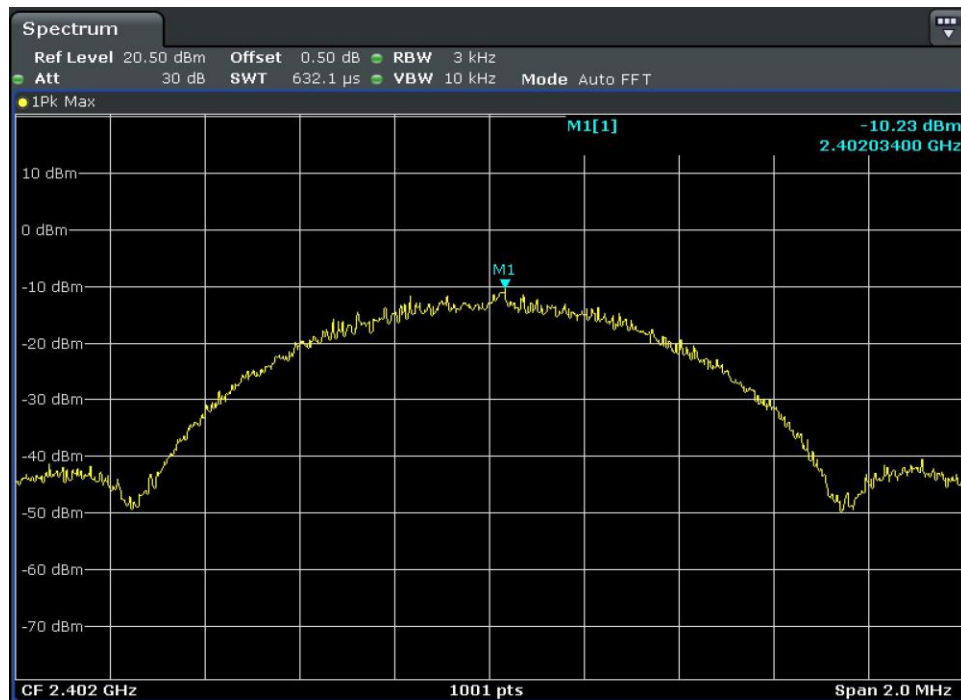


Figure 21. Maximum Peak Power Spectral Density: BLE 1 Mbps, Low Channel, 2402 MHz Plot

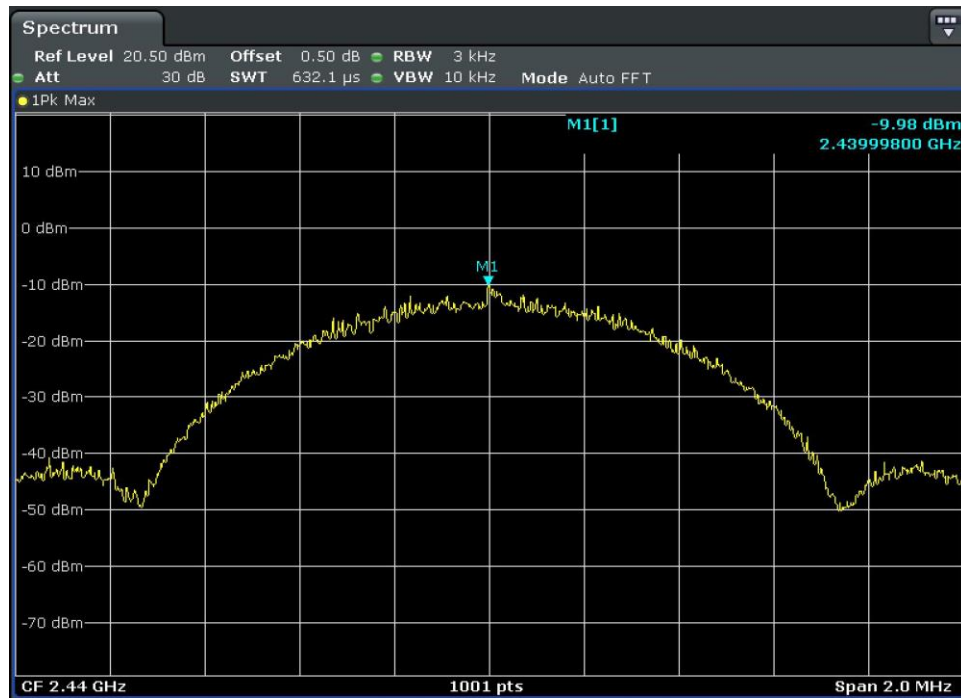


Figure 22. Maximum Peak Power Spectral Density: BLE 1 Mbps, Mid Channel, 2440 MHz Plot

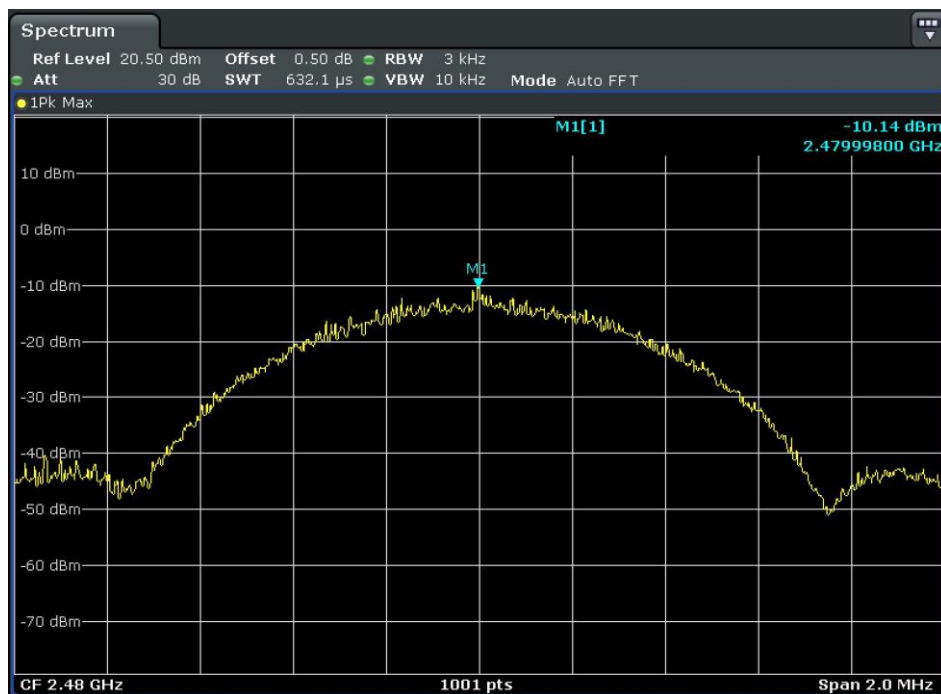


Figure 23. Maximum Peak Power Spectral Density: BLE 1 Mbps, High Channel, 2480 MHz Plot

BLE 2 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Max Peak Power Spectral Density (dBm)
2402	Low	31 (+6dBm)	-9.91
2440	Mid	31 (+6dBm)	-10.75
2480	High	31 (+6dBm)	-10.43

Table 10. Maximum Peak Power Spectral Density: BLE 2 Mbps Test Results

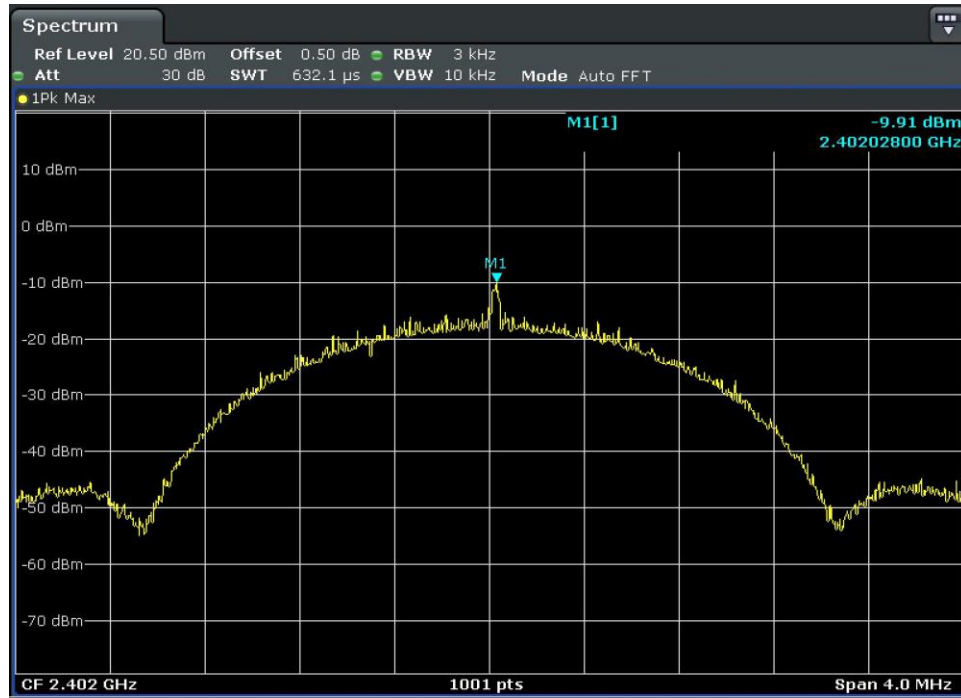


Figure 24. Maximum Peak Power Spectral Density: BLE 2 Mbps, Low Channel, 2402 MHz Plot

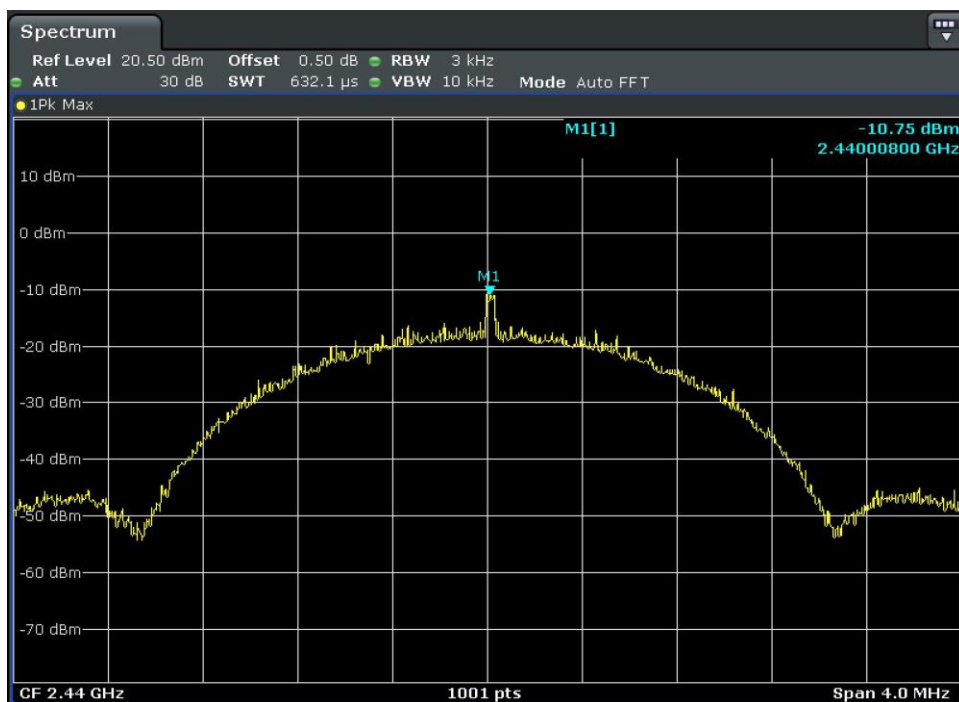


Figure 25. Maximum Peak Power Spectral Density: BLE 2 Mbps, Mid Channel, 2440 MHz Plot

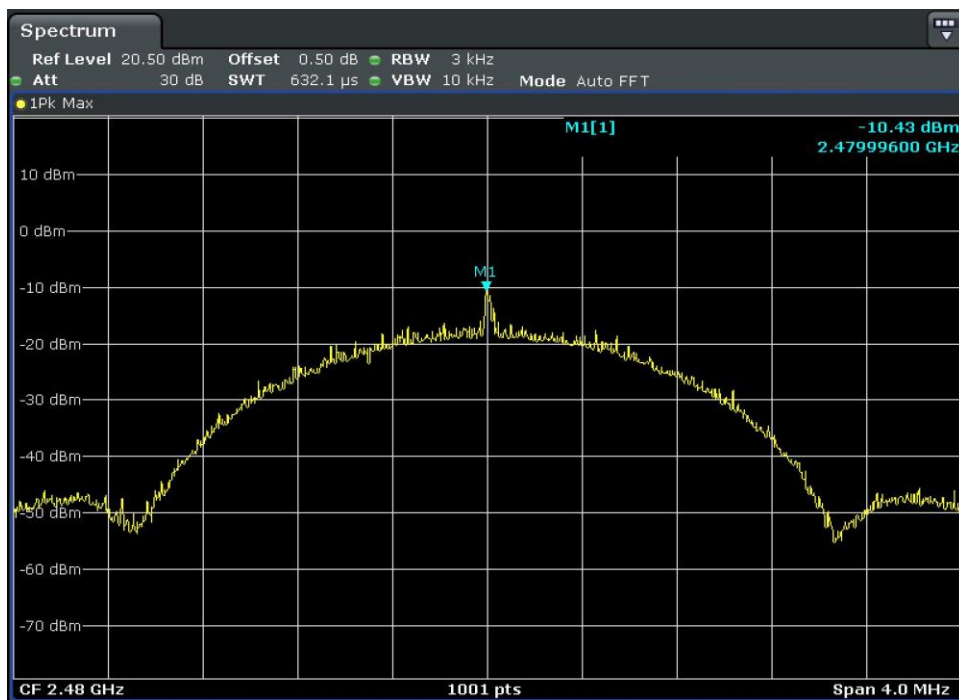


Figure 26. Maximum Peak Power Spectral Density: BLE 2 Mbps, High Channel, 2480 MHz Plot

3.1.6 Conducted Spurious Emissions

BLE 1 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Fundamental Peak (dBm)	Max Spurious Emission Freq (MHz)	Max Spurious Emission Level (dBm)	Emissions Limit (dBm)
2402	Low	31 (+6dBm)	4.68	6962.69	-52.26	-15.320
2440	Mid	31 (+6dBm)	4.56	15737.41	-52.15	-15.440
2480	High	31 (+6dBm)	3.58	6857.69	-52.17	-16.420

Table 11. Conducted Measurements: BLE 1 Mbps Test Results

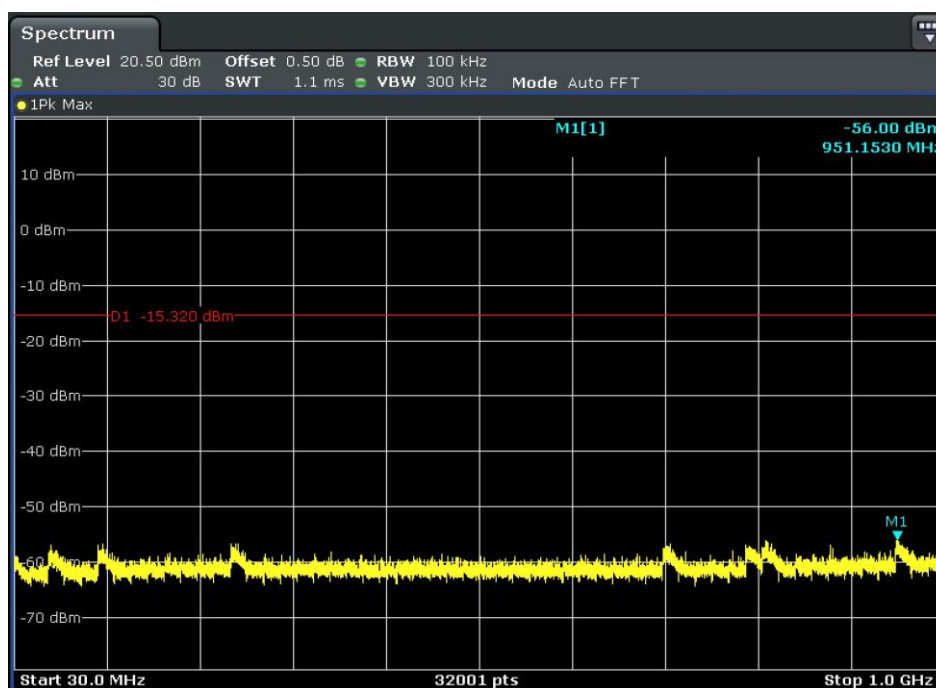


Figure 27. Conducted Spurious Emissions: BLE 1 Mbps, Low Channel, 2402 MHz, 30MHz-1GHz Range Plot

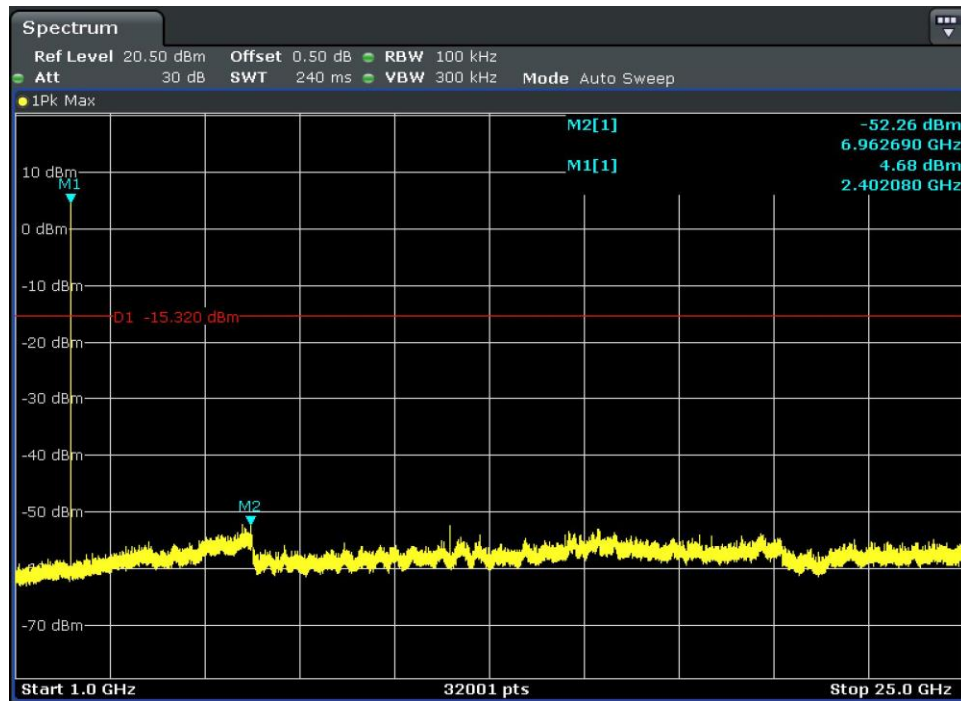


Figure 28. Conducted Spurious Emissions: BLE 1 Mbps, Low Channel, 2402 MHz, 1-25GHz Range Plot

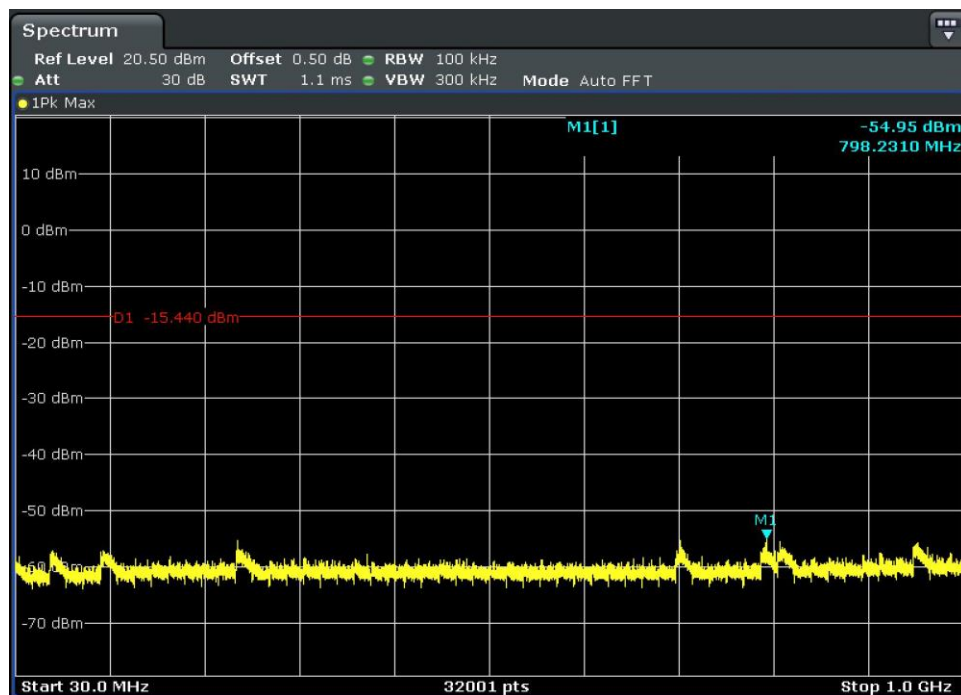


Figure 29. Conducted Spurious Emissions: BLE 1 Mbps, Mid Channel, 2440 MHz, 30MHz-1GHz Range Plot

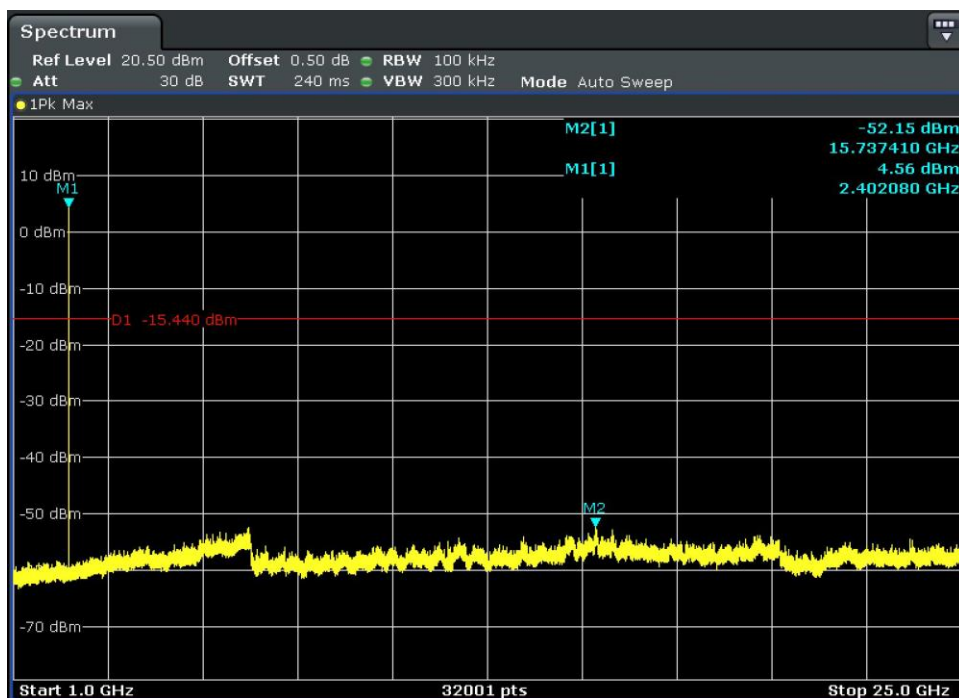


Figure 30. Conducted Spurious Emissions: BLE 1 Mbps, Mid Channel, 2440 MHz, 1-25GHz Range Plot

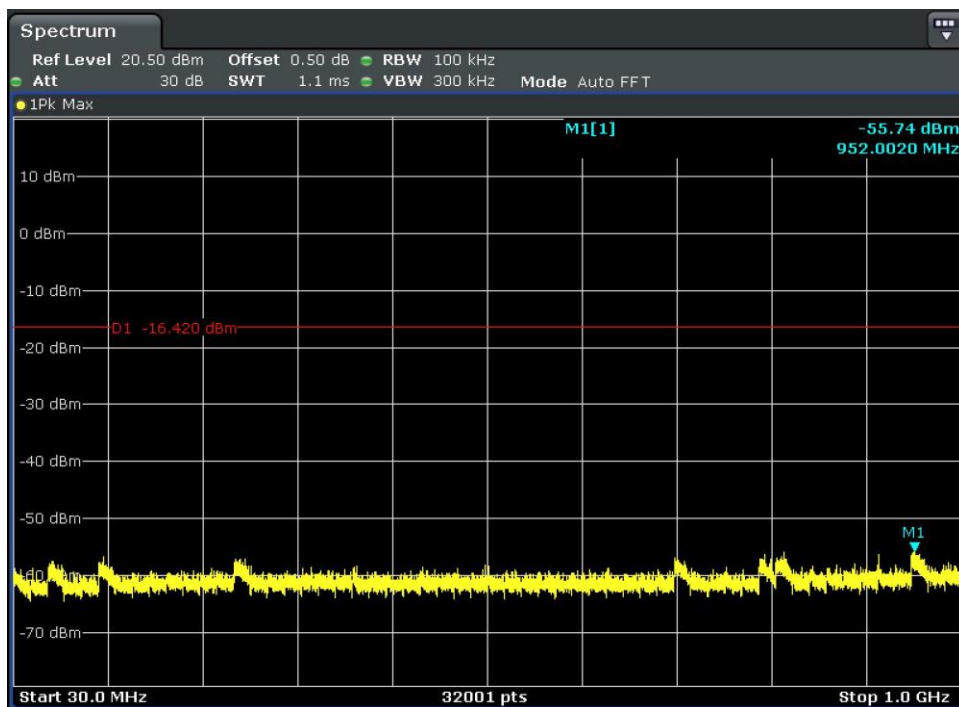


Figure 31. Conducted Spurious Emissions: BLE 1 Mbps, High Channel, 2480 MHz, 30MHz-1GHz Range Plot

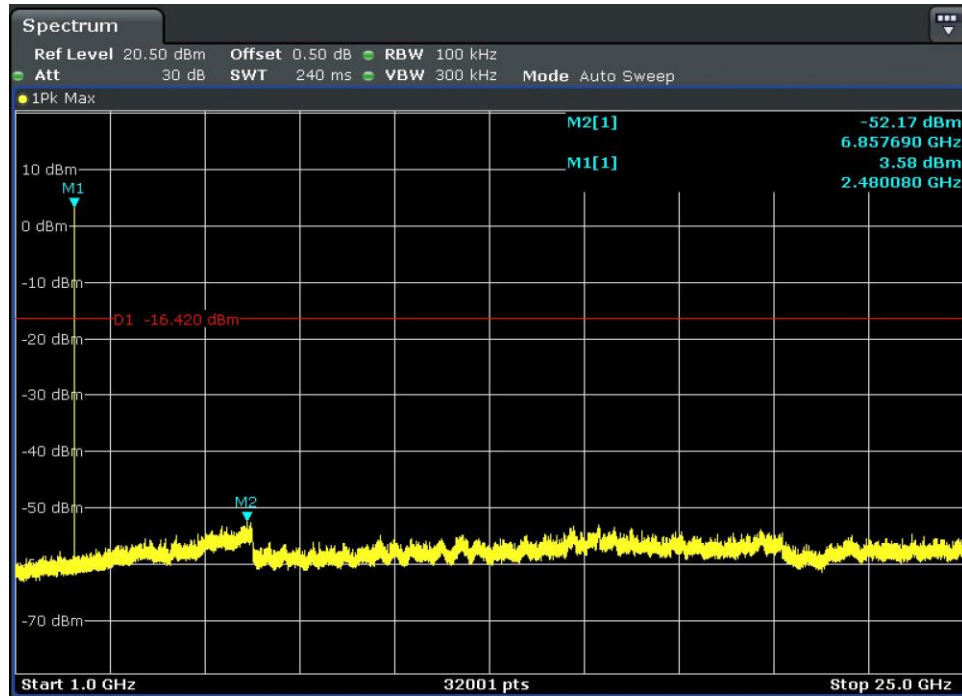


Figure 32. Conducted Spurious Emissions: BLE 1 Mbps, High Channel, 2480 MHz, 1-25GHz Range Plot

BLE 2 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Fundamental Peak (dBm)	Max Spurious Emission Freq (MHz)	Max Spurious Emission Level (dBm)	Emissions Limit (dBm)
2402	Low	31 (+6dBm)	4.50	2683.32	-51.99	-15.500
2440	Mid	31 (+6dBm)	3.65	15772.66	-52.61	-16.350
2480	High	31 (+6dBm)	3.89	6961.19	-52.31	-16.110

Table 12. Conducted Measurements: BLE 2 Mbps Test Results

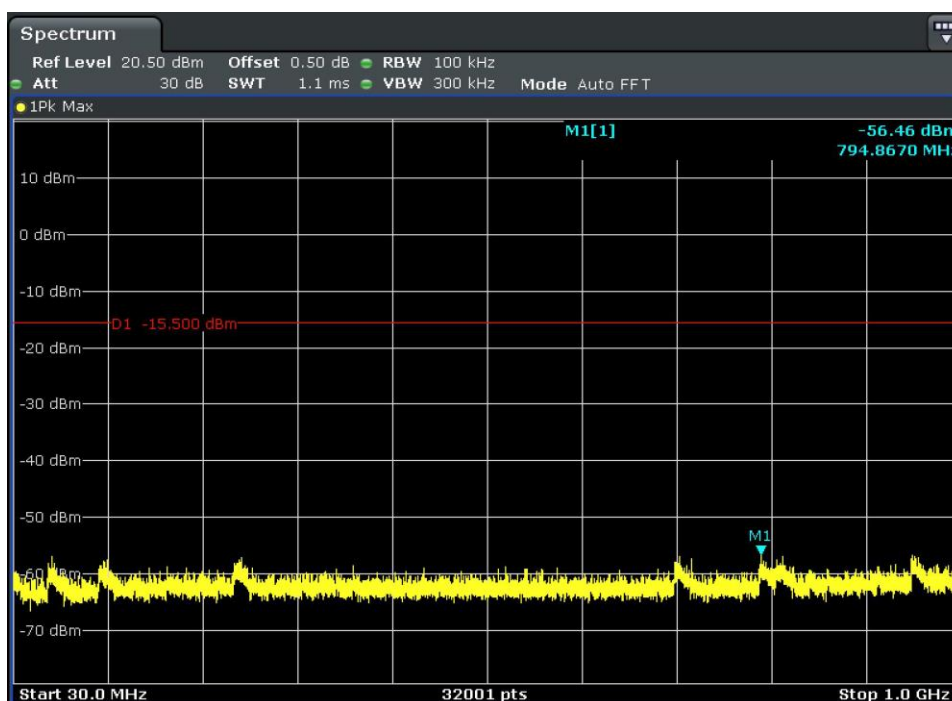


Figure 33. Conducted Spurious Emissions: BLE 2 Mbps, Low Channel, 2402 MHz, 30MHz-1GHz Range Plot

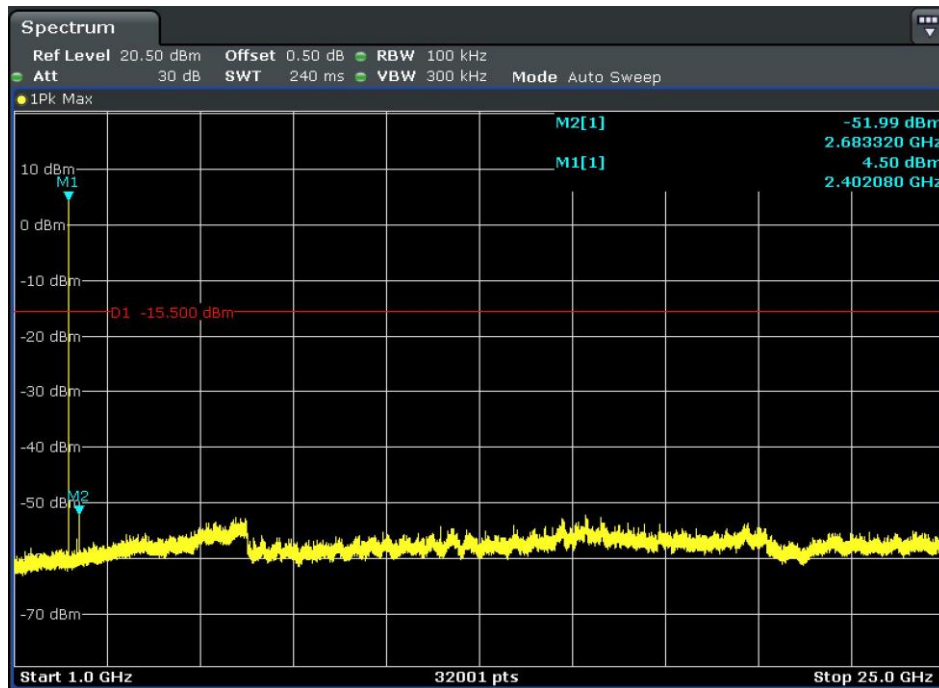


Figure 34. Conducted Spurious Emissions: BLE 2 Mbps, Low Channel, 2402 MHz, 1-25GHz Range Plot

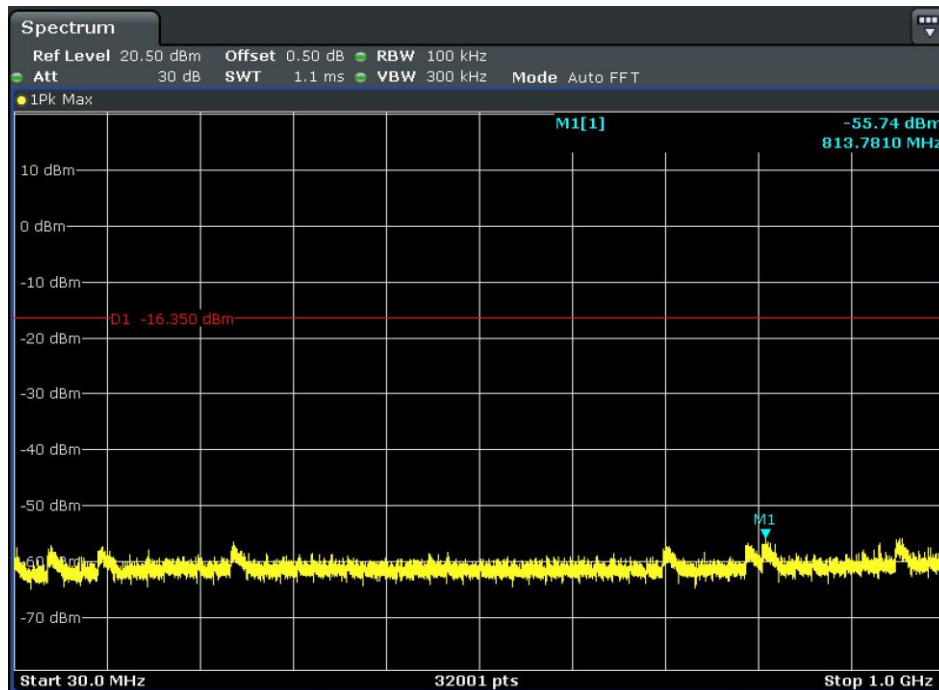


Figure 35. Conducted Spurious Emissions: BLE 2 Mbps, Mid Channel, 2440 MHz, 30MHz-1GHz Range Plot

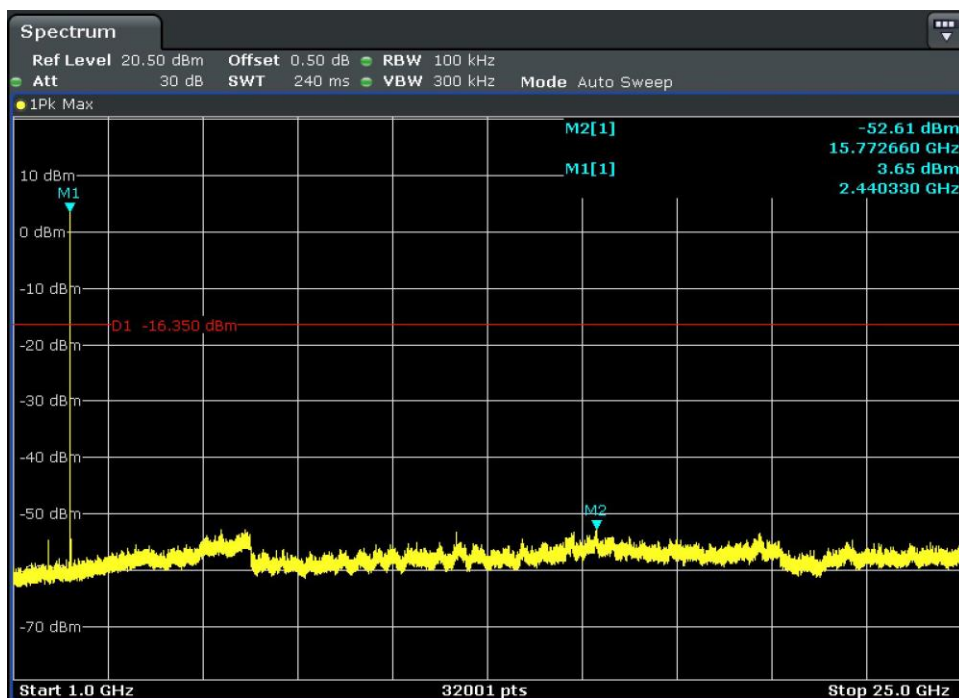


Figure 36. Conducted Spurious Emissions: BLE 2 Mbps, Mid Channel, 2440 MHz, 1-25GHz Range Plot

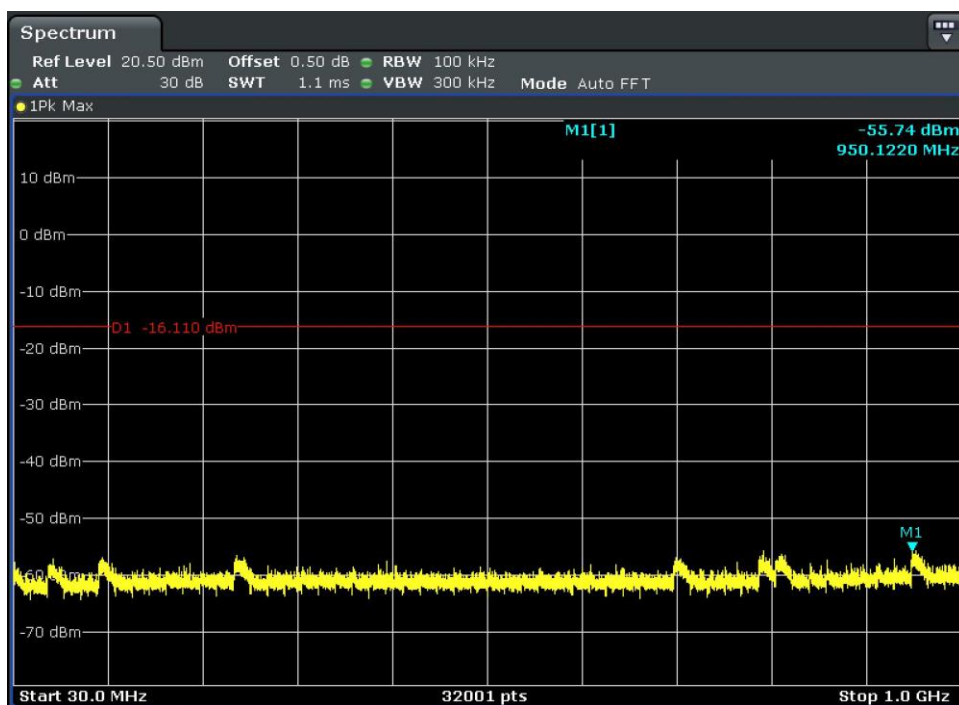


Figure 37. Conducted Spurious Emissions: BLE 2 Mbps, High Channel, 2480 MHz, 30MHz-1GHz Range Plot

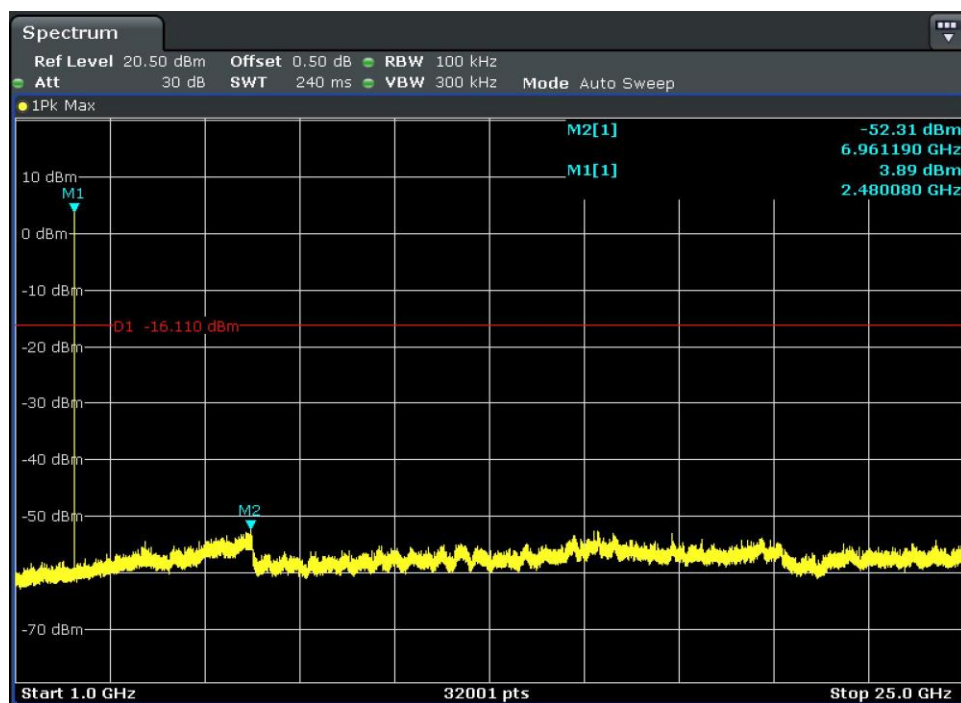


Figure 38. Conducted Spurious Emissions: BLE 2 Mbps, High Channel, 2480 MHz, 1-25GHz Range Plot

3.1.7 Band Edge

BLE 1 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Fundamental Peak (dBm)	Unwanted Emission Level (dBm)	Peak-to-Unwanted Emission Delta (Δ) (dBc)	Limit (dBc)
2402	Low	31 (+6dBm)	4.77	-49.25	54.02	≥ 20
2480	High	31 (+6dBm)	4.06	-48.77	52.83	≥ 20

Table 13. Band Edge: BLE 1 Mbps Test Results

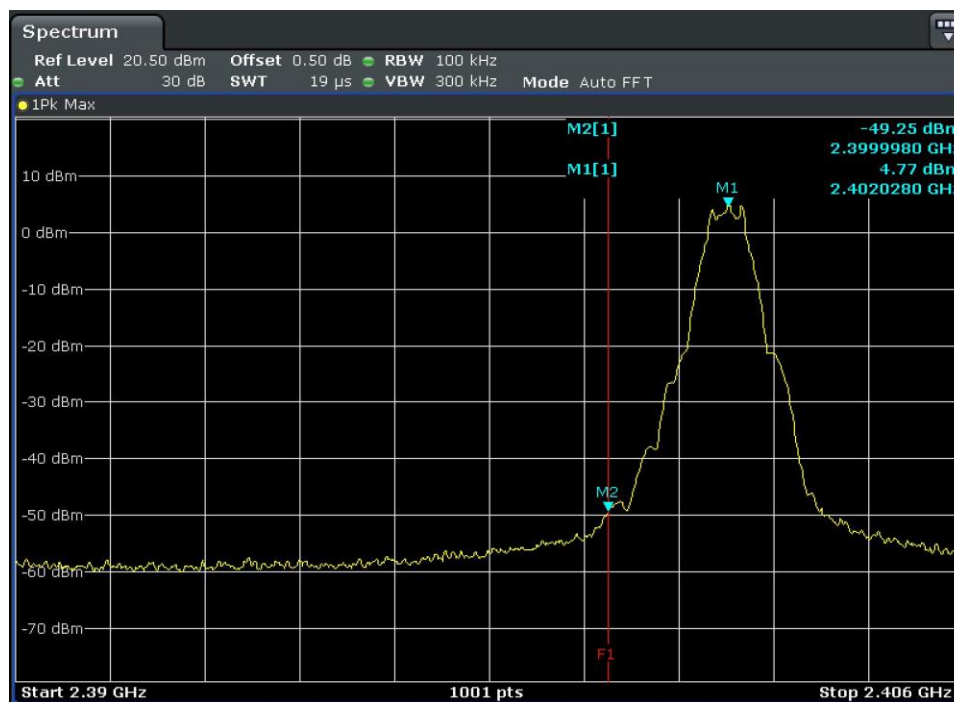


Figure 39. Lower Band Edge: BLE 1 Mbps, Low Channel, 2402 MHz Plot

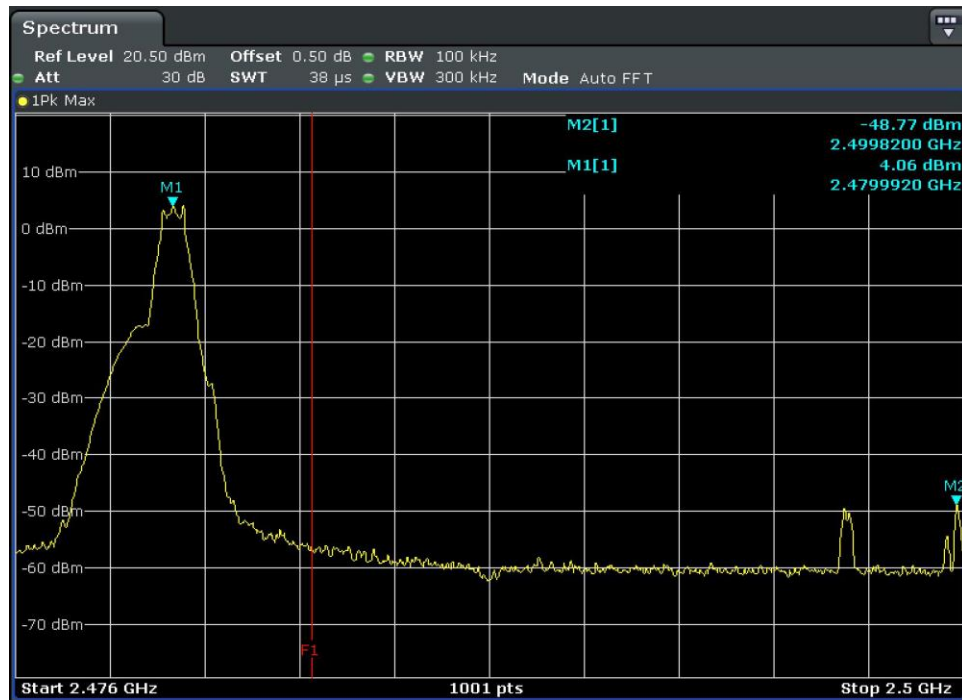


Figure 40. Upper Band Edge: BLE 1 Mbps, High Channel, 2480 MHz Plot

BLE 2 Mbps:

Frequency (MHz)	Channel	EUT Power Setting (dBm)	Fundamental Peak (dBm)	Unwanted Emission Level (dBm)	Peak-to-Unwanted Emission Delta (Δ) (dBc)	Limit (dBc)
2402	Low	31 (+6dBm)	4.78	-27.34	32.12	≥ 20
2480	High	31 (+6dBm)	4.07	-54.94	59.01	≥ 20

Table 14. Band Edge: BLE 2 Mbps Test Results

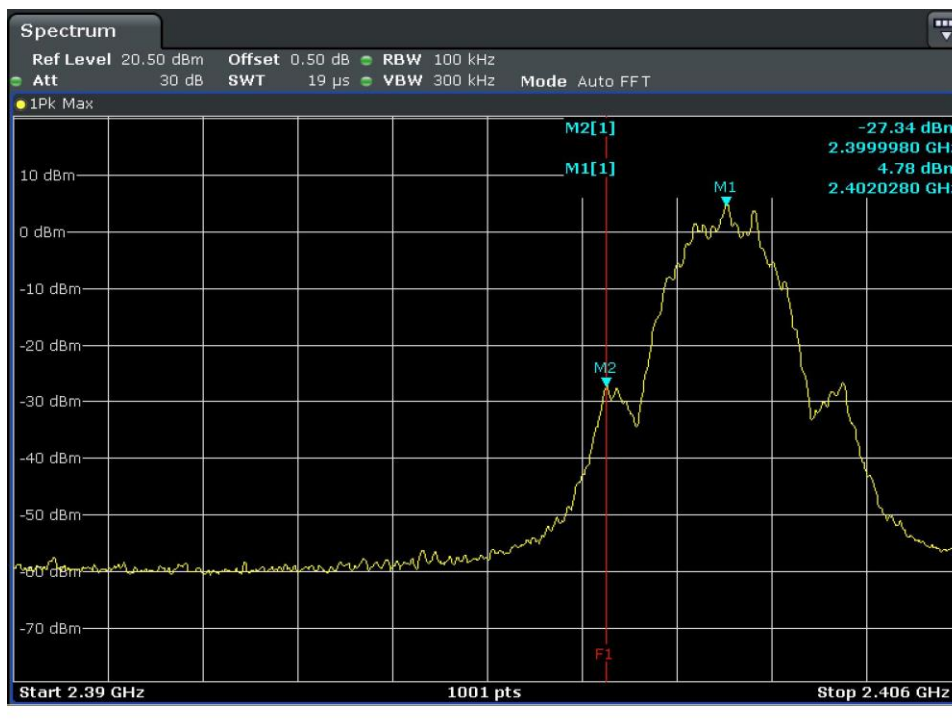


Figure 41. Lower Band Edge: BLE 2 Mbps, Low Channel, 2402 MHz Plot

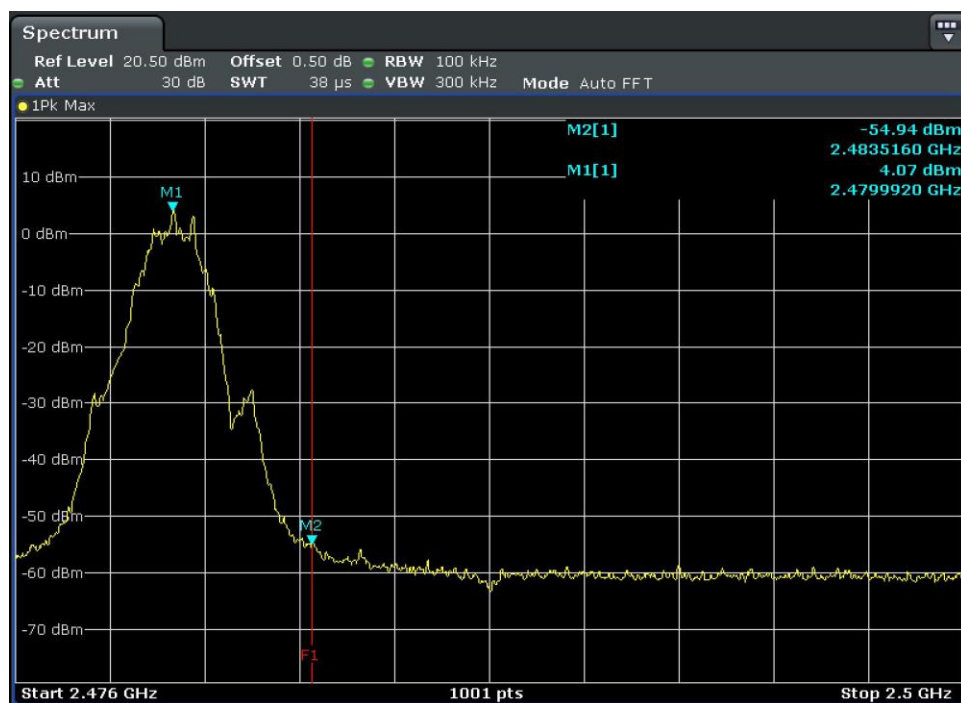


Figure 42. Upper Band Edge: BLE 2 Mbps, High Channel, 2480 MHz Plot

Test Equipment List

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

Test Name: FCC 15.247 & RSS-247			Test Date(s): 02/17/2026		
Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S3812	Signal Analyzer	Rohde & Schwarz	FSV	01/10/2025	01/10/2027
Note 1: Functionally tested equipment is verified using calibrated instrumentation at the time of testing. Note 2: Latest NSA and VSWR data available upon request.					

Table 15. Antenna-Port Conducted Measurements, Test Equipment

3.2 Radiated Spurious Emissions

Test Standard:	FCC 47 CFR §15.247(d) Spurious emission limits for digital modulation systems FCC 47 CFR §§15.205, 15.209, 15.35 Restricted bands and general radiated emission limits ISED RSS-247 Issue 4 Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands ISED RSS-GEN Issue 5 General Requirements for compliance of Radio Apparatus (radiated emission measurement requirements) ANSI C63.10-2020 Measurement procedures for unlicensed intentional radiators.
Test Method:	Radiated spurious and harmonic emissions from the 2.4 GHz BLE radio were measured in a semi-anechoic chamber in accordance with ANSI C63.10-2020. The BLE transmitter was exercised on the low, middle, and high channels (0, 19, 39) using the worst-case combination of data rate, packet payload, and output power defined in the Test Configuration table. Emissions from 30 MHz up to at least the 10th harmonic of the highest fundamental (or 40 GHz, whichever was lower) were scanned and the same measurement data were used to demonstrate compliance with both FCC 15.247/15.209 and ISED RSS-247/RSS-GEN limits.
Test Procedure:	For each BLE channel, the EUT was configured for continuous transmission at the worst-case 1 Mbps / 2 Mbps data rates with maximum packet length and maximum output power. The EUT was placed on a non-conductive support 0.8 m above the ground plane on a motorized turntable in a semi-anechoic chamber, with all required support equipment and load connected to represent normal operation. Radiated emissions were measured at a 3m distance from 30 MHz to 1 GHz and at a 3m (or 1m, as applicable) above 1 GHz using appropriate loop, biconical/log-periodic, and horn antennas. For each significant emissions, the turntable was rotated through 0-360° and the receive antenna height was varied from 1 m to 4 m in both horizontal and vertical polarizations to maximize the received level. Below 1 GHz, emissions were measured with CISPR quasi-peak detector and bandwidths. Above 1 GHz, emissions were measured using peak and average detectors with 1 MHz RBW (and suitable VBW) in accordance with ANSI C63.10, FCC §15.35, and RSS-GEN. Analyzer readings were corrected for antenna factors, cable losses, pre-amplifier gain, and distance to obtain the final field-strength or EIRP values reported for FCC and ISED compliance.

Test Results:

Test Standard:	FCC 47 CFR §15.247(d) ISED RSS-247 6.6
Test Name	Radiated Spurious Emissions
Test Dates:	02/25/2026
Laboratory	Eurofins E&E Testing NA, LLC.
Test Engineer:	Chin Ming Lui / Alex Chen
Test Results:	Compliant
Ambient Temperature (°C):	23.1
Relative Humidity (%):	42
Atmospheric Pressure (kPa):	101.3

Test Data (FCC 15.247 & RSS-247 Radiated Spurious Emissions)

BLE Low Channel 2402 MHz

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
47.778	QuasiPeak (PASS)	11.726	40	-28.274	3.975	70	Vertical	120000	0.1	-15.389
78.3	QuasiPeak (PASS)	28.255	40	-11.745	1.843	175	Vertical	120000	0.1	-16.601
84.672	QuasiPeak (PASS)	33.694	40	-6.306	1.392	230	Vertical	120000	0.1	-14.379
88.488	QuasiPeak (PASS)	37.047	43.522	-6.475	3.219	250	Vertical	120000	0.1	-12.441
122.072	QuasiPeak (PASS)	32.765	43.522	-10.757	1.623	199	Horizontal	120000	0.1	-9.899
480.058	QuasiPeak (PASS)	36.395	46.021	-9.626	1.062	139	Horizontal	120000	0.1	-4.161

Table 16. FCC 15.247 & RSS-247 BLE 1 Mbps Low Channel 2402 MHz RSE – (30 MHz – 1 GHz), Test Results

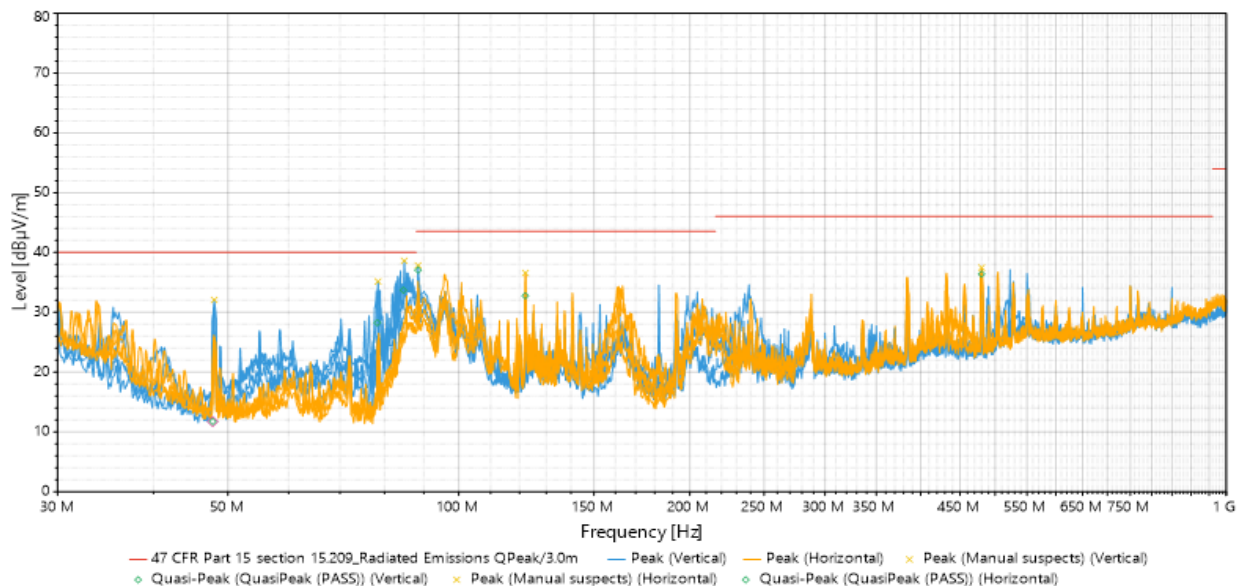


Figure 43. FCC 15.247 & RSS-247 BLE 1 Mbps Low Channel 2402 MHz RSE – (30 MHz – 1 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
36.42	QuasiPeak (PASS)	24.462	40	-15.538	3.433	81	Horizontal	120000	0.1	-7.373
47.856	QuasiPeak (PASS)	26.799	40	-13.201	1.729	72	Vertical	120000	0.1	-15.389
78.234	QuasiPeak (PASS)	33.306	40	-6.694	1.271	176	Vertical	120000	0.1	-16.618
83.426	QuasiPeak (PASS)	33.046	40	-6.954	1.385	207	Vertical	120000	0.1	-14.787
88.506	QuasiPeak (PASS)	38.83	43.522	-4.692	1.274	274	Vertical	120000	0.1	-12.433
152.172	QuasiPeak (PASS)	12.084	43.522	-31.438	3.866	381	Horizontal	120000	0.1	-11.516

Table 17. FCC 15.247 & RSS-247 BLE 2 Mbps Low Channel 2402 MHz RSE – (30 MHz – 1 GHz), Test Results

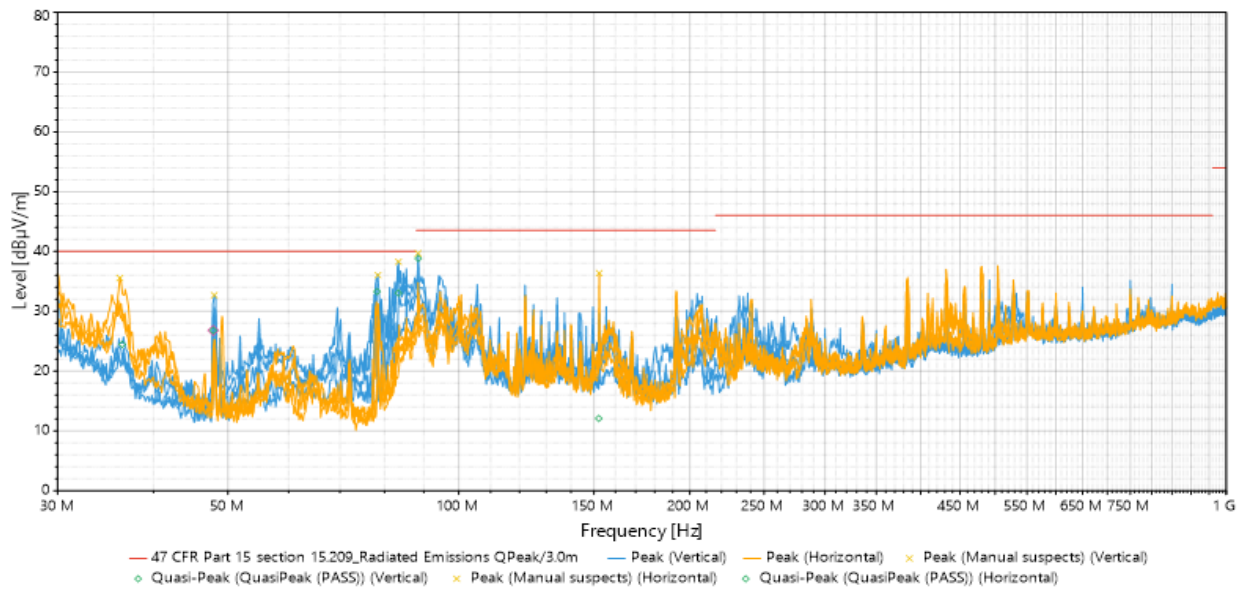


Figure 44. FCC 15.247 & RSS-247 BLE 2 Mbps Low Channel 2402 MHz RSE – (30 MHz – 1 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
3187	Peak (PASS)	59.888	74	-14.112	1.983	301	Vertical	1000000	0.1	0.515
3187	Average (PASS)	34.15	54	-19.85	1.983	301	Vertical	1000000	0.1	0.515
5970.1	Peak (PASS)	46.182	74	-27.818	3.439	1	Vertical	1000000	0.1	3.382
5970.1	Average (PASS)	32.349	54	-21.651	3.439	1	Vertical	1000000	0.1	3.382
6374.8	Peak (PASS)	56.797	74	-17.203	1.746	210	Vertical	1000000	0.1	3.758
6374.8	Average (PASS)	33.923	54	-20.077	1.746	210	Vertical	1000000	0.1	3.758
15813	Peak (PASS)	55.069	74	-18.931	3.389	39	Horizontal	1000000	0.1	6.973
15813	Average (PASS)	41.436	54	-12.564	3.389	39	Horizontal	1000000	0.1	6.973
16831.3	Peak (PASS)	54.816	74	-19.184	3.966	64	Vertical	1000000	0.1	6.006
16831.3	Average (PASS)	41.421	54	-12.579	3.966	64	Vertical	1000000	0.1	6.006
17197.5	Peak (PASS)	54.764	74	-19.236	3.742	-3	Horizontal	1000000	0.1	5.188
17197.5	Average (PASS)	40.61	54	-13.39	3.742	-3	Horizontal	1000000	0.1	5.188
17887.5	Peak (PASS)	55.421	74	-18.579	2.086	209	Vertical	1000000	0.1	3.955
17887.5	Average (PASS)	41.591	54	-12.409	2.086	209	Vertical	1000000	0.1	3.955

Table 18. FCC 15.247 & RSS-247 BLE 1 Mbps Low Channel 2402 MHz RSE – (1 – 18 GHz), Test Results

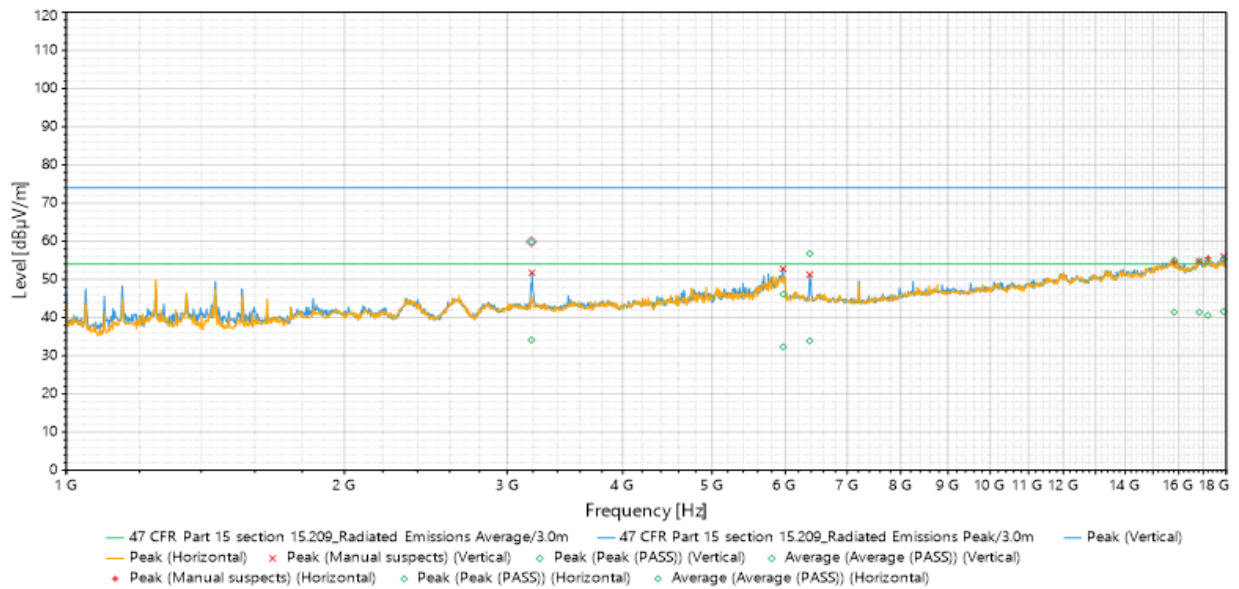


Figure 45. FCC 15.247 & RSS-247 BLE 1 Mbps Low Channel 2402 MHz RSE – (1 – 18 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
3187.1	Peak (PASS)	59.061	74	-14.939	2.319	302	Vertical	1000000	0.1	0.515
3187.1	Average (PASS)	33.762	54	-20.238	2.319	302	Vertical	1000000	0.1	0.515
5886.3	Peak (PASS)	46.726	74	-27.274	1.856	-27	Vertical	1000000	0.1	3.164
5886.3	Average (PASS)	32.789	54	-21.211	1.856	-27	Vertical	1000000	0.1	3.164
15800.9	Peak (PASS)	55.727	74	-18.273	1.169	23	Vertical	1000000	0.1	7.237
15800.9	Average (PASS)	41.42	54	-12.58	1.169	23	Vertical	1000000	0.1	7.237
15885.8	Peak (PASS)	55.162	74	-18.838	3.744	313	Horizontal	1000000	0.1	6.824
15885.8	Average (PASS)	41.381	54	-12.619	3.744	313	Horizontal	1000000	0.1	6.824
16774.1	Peak (PASS)	55.495	74	-18.505	1.974	132	Vertical	1000000	0.1	5.949
16774.1	Average (PASS)	41.338	54	-12.662	1.974	132	Vertical	1000000	0.1	5.949
17230.9	Peak (PASS)	55.252	74	-18.748	2.233	20	Vertical	1000000	0.1	5.16
17230.9	Average (PASS)	41.017	54	-12.983	2.233	20	Vertical	1000000	0.1	5.16
17788.4	Peak (PASS)	54.857	74	-19.143	2.201	278	Horizontal	1000000	0.1	4.056
17788.4	Average (PASS)	41.302	54	-12.698	2.201	278	Horizontal	1000000	0.1	4.056

Table 19. FCC 15.247 & RSS-247 BLE 2 Mbps Low Channel 2402 MHz RSE – (1 – 18 GHz), Test Results

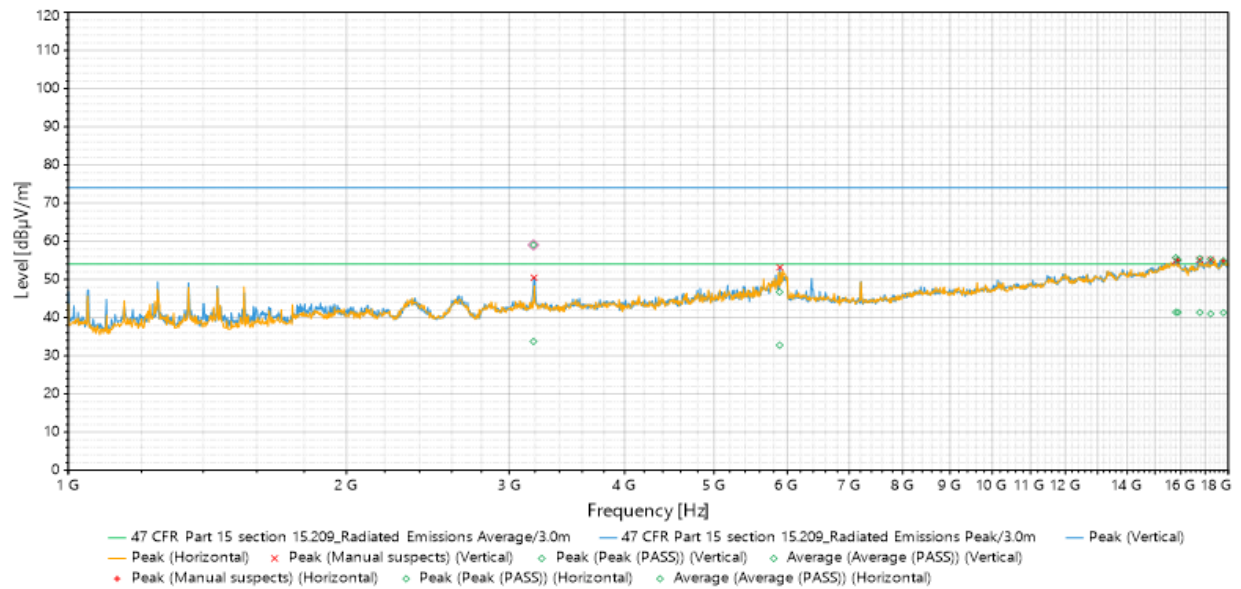


Figure 46. FCC 15.247 & RSS-247 BLE 2 Mbps Low Channel 2402 MHz RSE – (1 – 18 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2316.1	Peak (PASS)	59.717	74	-14.283	1.951	-27	Vertical	1000000	0.1	35.679
2316.1	Average (PASS)	42.6	54	-11.4	1.951	-27	Vertical	1000000	0.1	35.679
2334.2	Peak (PASS)	59.791	74	-14.209	1.394	233	Horizontal	1000000	0.1	35.765
2334.2	Average (PASS)	42.709	54	-11.291	1.394	233	Horizontal	1000000	0.1	35.765
2354.3	Peak (PASS)	59.76	74	-14.24	1.723	70	Horizontal	1000000	0.1	35.976
2354.3	Average (PASS)	42.961	54	-11.039	1.723	70	Horizontal	1000000	0.1	35.976
2373.7	Peak (PASS)	60.253	74	-13.747	1.694	80	Vertical	1000000	0.1	36.008
2373.7	Average (PASS)	42.923	54	-11.077	1.694	80	Vertical	1000000	0.1	36.008
2382.1	Peak (PASS)	61.176	74	-12.824	2.848	-27	Vertical	1000000	0.1	36.029
2382.1	Average (PASS)	42.852	54	-11.148	2.848	-27	Vertical	1000000	0.1	36.029
2388.1	Peak (PASS)	60.078	74	-13.922	1.473	325	Horizontal	1000000	0.1	36.202
2388.1	Average (PASS)	42.994	54	-11.006	1.473	325	Horizontal	1000000	0.1	36.202

Table 20. FCC 15.247 & RSS-247 BLE 1 Mbps Low Channel 2402 MHz RSE – Lower Band Edge, Test Results

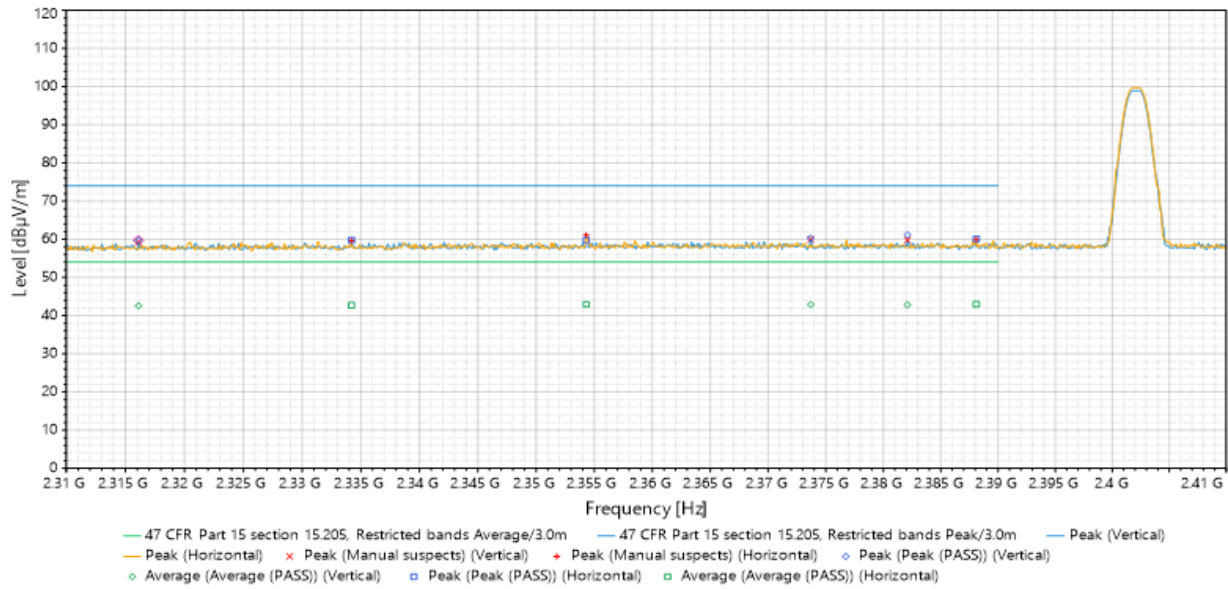


Figure 47. FCC 15.247 & RSS-247 BLE 1 Mbps Low Channel 2402 MHz RSE – Lower Band Edge, Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2334.9	Peak (PASS)	59.384	74	-14.616	3.411	44	Vertical	1000000	0.1	35.787
2334.9	Average (PASS)	42.731	54	-11.269	3.411	44	Vertical	1000000	0.1	35.787
2340	Peak (PASS)	59.324	74	-14.676	2.288	20	Horizontal	1000000	0.1	35.82
2340	Average (PASS)	42.762	54	-11.238	2.288	20	Horizontal	1000000	0.1	35.82
2350.5	Peak (PASS)	59.779	74	-14.221	3.53	279	Horizontal	1000000	0.1	35.94
2350.5	Average (PASS)	42.923	54	-11.077	3.53	279	Horizontal	1000000	0.1	35.94
2355.5	Peak (PASS)	59.858	74	-14.142	1.169	149	Vertical	1000000	0.1	35.925
2355.5	Average (PASS)	42.926	54	-11.074	1.169	149	Vertical	1000000	0.1	35.925
2369.5	Peak (PASS)	60.135	74	-13.865	3.077	273	Vertical	1000000	0.1	35.993
2369.5	Average (PASS)	42.945	54	-11.055	3.077	273	Vertical	1000000	0.1	35.993
2385.5	Peak (PASS)	59.982	74	-14.018	3.405	375	Horizontal	1000000	0.1	36.198
2385.5	Average (PASS)	43	54	-11	3.405	375	Horizontal	1000000	0.1	36.198

Table 21. FCC 15.247 & RSS-247 BLE 2 Mbps Low Channel 2402 MHz RSE – Lower Band Edge, Test Results

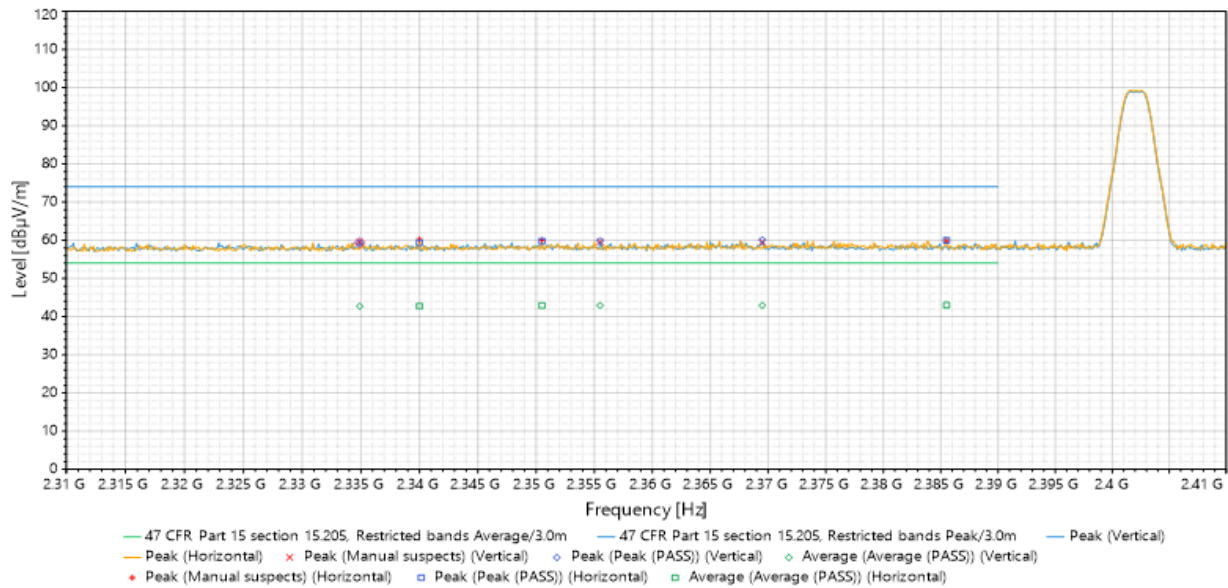


Figure 48. FCC 15.247 & RSS-247 BLE 2 Mbps Low Channel 2402 MHz RSE – Lower Band Edge, Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18014.8	Peak (PASS)	51.026	74	-22.974	1.847	-30	Horizontal	1000000	0.1	-0.254
18014.8	Average (PASS)	36.776	54	-17.224	1.847	-30	Horizontal	1000000	0.1	-0.254
18070.7	Peak (PASS)	50.291	74	-23.709	2.537	274	Vertical	1000000	0.1	-0.499
18070.7	Average (PASS)	36.434	54	-17.566	2.537	274	Vertical	1000000	0.1	-0.499
18371.7	Peak (PASS)	49.99	74	-24.01	2.314	46	Vertical	1000000	0.1	-1.408
18371.7	Average (PASS)	35.809	54	-18.191	2.314	46	Vertical	1000000	0.1	-1.408
19547.5	Peak (PASS)	48.408	74	-25.592	3.333	348	Vertical	1000000	0.1	-2.847
19547.5	Average (PASS)	34.273	54	-19.727	3.333	348	Vertical	1000000	0.1	-2.847
22525.2	Peak (PASS)	48.668	74	-25.332	3.594	12	Horizontal	1000000	0.1	-2.217
22525.2	Average (PASS)	34.514	54	-19.486	3.594	12	Horizontal	1000000	0.1	-2.217
25854.5	Peak (PASS)	48.442	74	-25.558	1.164	55	Horizontal	1000000	0.1	-0.83
25854.5	Average (PASS)	34.685	54	-19.315	1.164	55	Horizontal	1000000	0.1	-0.83

Table 22. FCC 15.247 & RSS-247 BLE 1 Mbps Low Channel 2402 MHz RSE – (18 – 26 GHz), Test Results

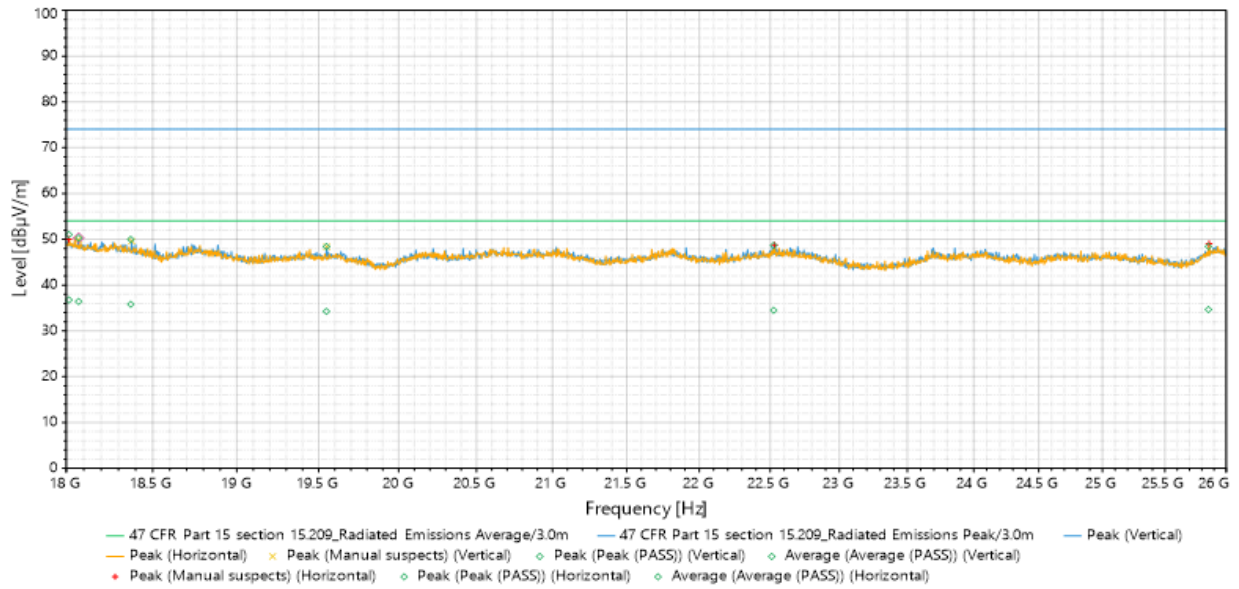


Figure 49. FCC 15.247 & RSS-247 BLE 1 Mbps Low Channel 2402 MHz RSE – (18 – 26 GHz), Test Results

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18095.6	Peak (PASS)	50.287	74	-23.713	3.664	256	Horizontal	1000000	0.1	-0.433
18095.6	Average (PASS)	36.58	54	-17.42	3.664	256	Horizontal	1000000	0.1	-0.433
18811.6	Peak (PASS)	49.251	74	-24.749	3.324	-23	Vertical	1000000	0.1	-2.321
18811.6	Average (PASS)	35.334	54	-18.666	3.324	-23	Vertical	1000000	0.1	-2.321
20697.1	Peak (PASS)	48.945	74	-25.055	3.798	-27	Vertical	1000000	0.1	-2.131
20697.1	Average (PASS)	34.607	54	-19.393	3.798	-27	Vertical	1000000	0.1	-2.131
21800.9	Peak (PASS)	48.892	74	-25.108	1.504	-11	Vertical	1000000	0.1	-2.136
21800.9	Average (PASS)	34.762	54	-19.238	1.504	-11	Vertical	1000000	0.1	-2.136
24114	Peak (PASS)	47.732	74	-26.268	3.045	141	Vertical	1000000	0.1	-1.653
24114	Average (PASS)	33.853	54	-20.147	3.045	141	Vertical	1000000	0.1	-1.653
25912	Peak (PASS)	49.1	74	-24.9	1.624	236	Vertical	1000000	0.1	-0.616
25912	Average (PASS)	35.208	54	-18.792	1.624	236	Vertical	1000000	0.1	-0.616

Table 23. FCC 15.247 & RSS-247 BLE 2 Mbps Low Channel 2402 MHz RSE – (18 – 26 GHz), Test Results

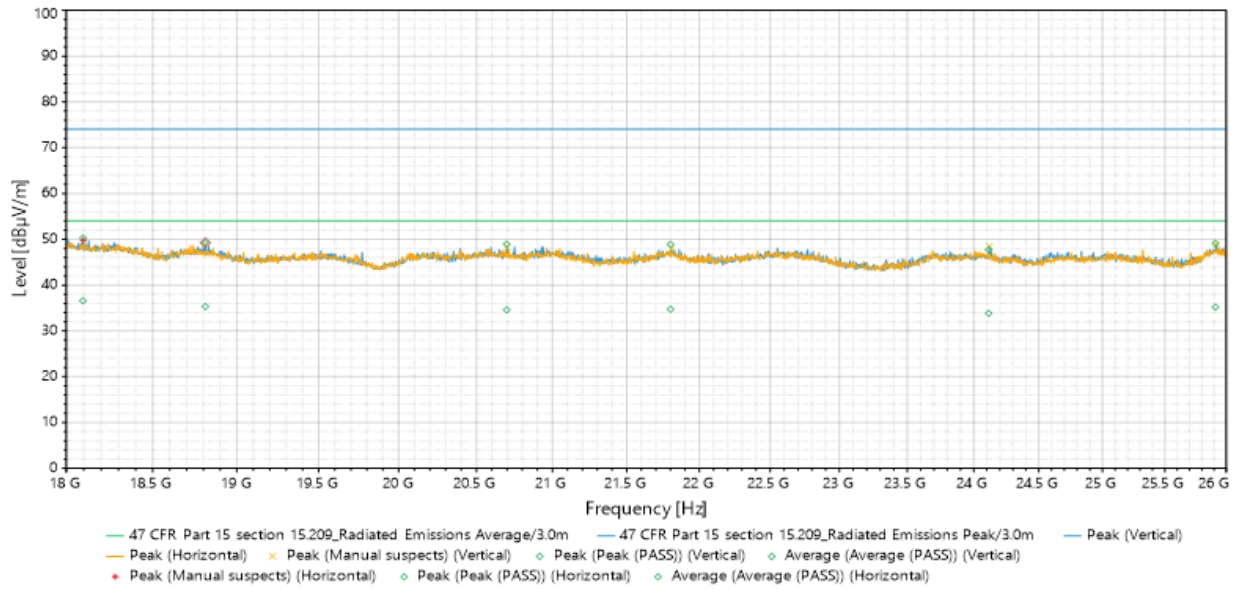


Figure 50. FCC 15.247 & RSS-247 BLE 2 Mbps Low Channel 2402 MHz RSE – (18 – 26 GHz), Test Results

BLE Mid Channel 2440 MHz

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
30.054	QuasiPeak (PASS)	26.702	40	-13.298	1.088	101	Horizontal	120000	0.1	-2.585
35.604	QuasiPeak (PASS)	26.194	40	-13.806	4	6	Horizontal	120000	0.1	-6.706
78.24	QuasiPeak (PASS)	33.953	40	-6.047	1.279	243	Vertical	120000	0.1	-16.616
83.144	QuasiPeak (PASS)	32.338	40	-7.662	1.03	248	Vertical	120000	0.1	-14.88
88.45	QuasiPeak (PASS)	39.46	43.522	-4.062	1.376	283	Vertical	120000	0.1	-12.46
99.928	QuasiPeak (PASS)	21.432	43.522	-22.09	4	21	Vertical	120000	0.1	-10.251

Table 24. FCC 15.247 & RSS-247 BLE 1 Mbps Mid Channel 2440 MHz RSE – (30 MHz – 1 GHz), Test Results

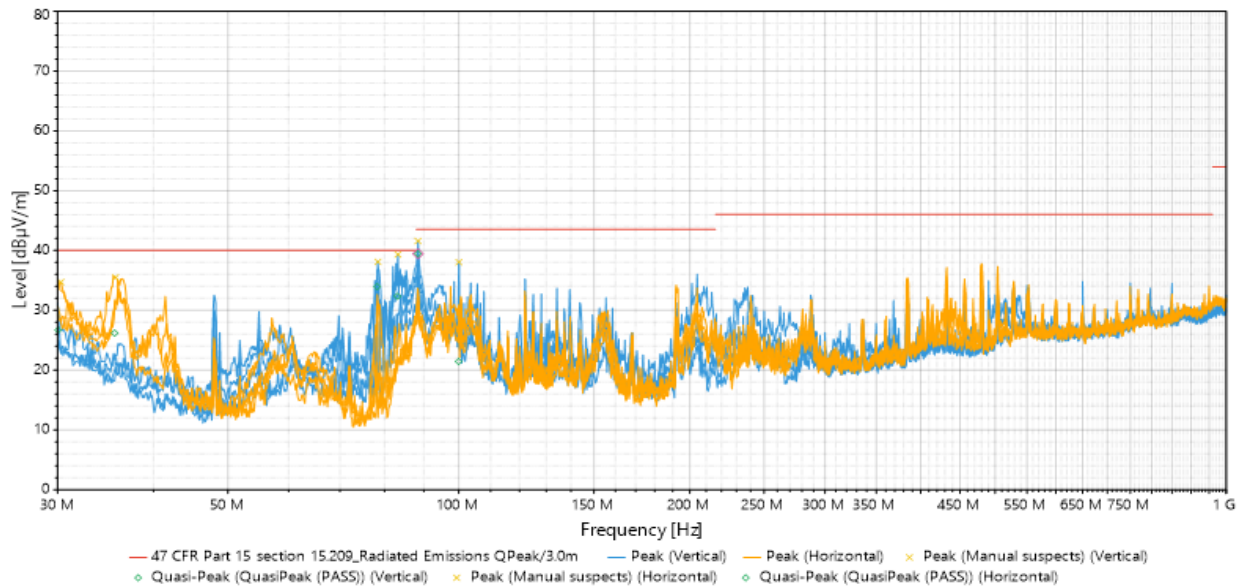


Figure 51. FCC 15.247 & RSS-247 BLE 1 Mbps Mid Channel 2440 MHz RSE – (30 MHz – 1 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
48.072	QuasiPeak (PASS)	28.163	40	-11.837	1.813	0	Vertical	120000	0.1	-15.418
78.126	QuasiPeak (PASS)	31.787	40	-8.213	1.464	279	Vertical	120000	0.1	-16.646
88.462	QuasiPeak (PASS)	38.345	43.522	-5.177	1.029	302	Vertical	120000	0.1	-12.454
121.948	QuasiPeak (PASS)	33.06	43.522	-10.462	2.705	201	Horizontal	120000	0.1	-9.945
479.39	QuasiPeak (PASS)	34.104	46.021	-11.917	1.808	151	Horizontal	120000	0.1	-4.145
504.05	QuasiPeak (PASS)	35.516	46.021	-10.505	1.473	249	Horizontal	120000	0.1	-3.582

Table 25. FCC 15.247 & RSS-247 BLE 2 Mbps Mid Channel 2440 MHz RSE – (30 MHz – 1 GHz), Test Results

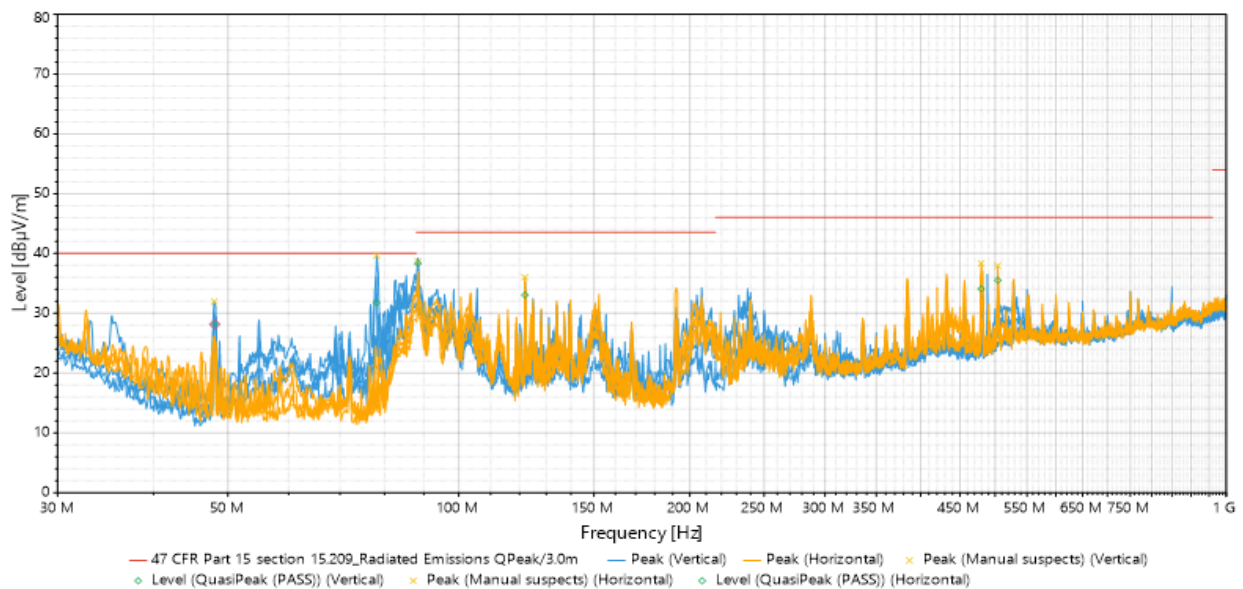


Figure 52. FCC 15.247 & RSS-247 BLE 2 Mbps Mid Channel 2440 MHz RSE – (30 MHz – 1 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
5929.4	Peak (PASS)	46.24	74	-27.76	3.948	24	Vertical	1000000	0.1	3.254
5929.4	Average (PASS)	32.389	54	-21.611	3.948	24	Vertical	1000000	0.1	3.254
15613.4	Peak (PASS)	54.935	74	-19.065	1.984	47	Vertical	1000000	0.1	7.256
15613.4	Average (PASS)	41.165	54	-12.835	1.984	47	Vertical	1000000	0.1	7.256
15735	Peak (PASS)	55.073	74	-18.927	4	218	Horizontal	1000000	0.1	7.154
15735	Average (PASS)	41.341	54	-12.659	4	218	Horizontal	1000000	0.1	7.154
16860.5	Peak (PASS)	55.787	74	-18.213	2.93	-27	Vertical	1000000	0.1	6.019
16860.5	Average (PASS)	41.993	54	-12.007	2.93	-27	Vertical	1000000	0.1	6.019
17125.2	Peak (PASS)	55.278	74	-18.722	4	291	Horizontal	1000000	0.1	5.361
17125.2	Average (PASS)	41.305	54	-12.695	4	291	Horizontal	1000000	0.1	5.361
17788.2	Peak (PASS)	55.839	74	-18.161	3.119	264	Horizontal	1000000	0.1	4.056
17788.2	Average (PASS)	41.558	54	-12.442	3.119	264	Horizontal	1000000	0.1	4.056

Table 26. FCC 15.247 & RSS-247 BLE 1 Mbps Mid Channel 2440 MHz RSE – (1 – 18 GHz), Test Results

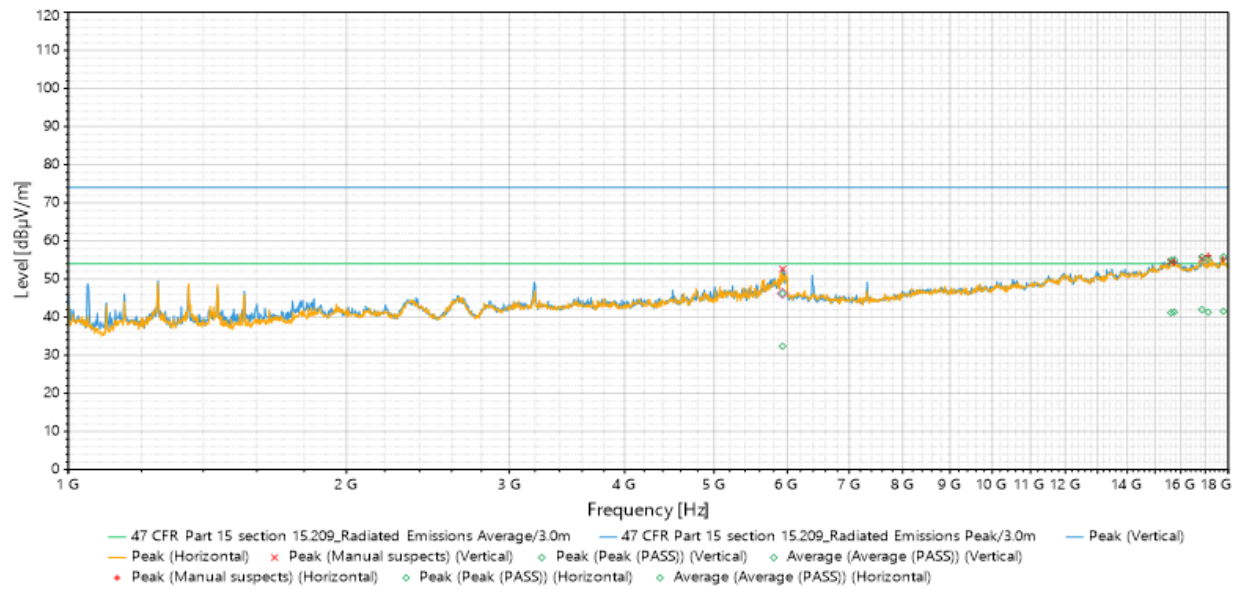


Figure 53. FCC 15.247 & RSS-247 BLE 1 Mbps Mid Channel 2440 MHz RSE – (1 – 18 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
3187.4	Peak (PASS)	59.121	74	-14.879	1.284	285	Vertical	1000000	0.1	0.515
3187.4	Average (PASS)	33.992	54	-20.008	1.284	285	Vertical	1000000	0.1	0.515
5914.7	Peak (PASS)	46.754	74	-27.246	2.408	-30	Vertical	1000000	0.1	3.217
5914.7	Average (PASS)	32.433	54	-21.567	2.408	-30	Vertical	1000000	0.1	3.217
15593.3	Peak (PASS)	54.99	74	-19.01	3.236	222	Vertical	1000000	0.1	7.221
15593.3	Average (PASS)	41.266	54	-12.734	3.236	222	Vertical	1000000	0.1	7.221
16870.3	Peak (PASS)	56.314	74	-17.686	2.696	123	Horizontal	1000000	0.1	5.929
16870.3	Average (PASS)	42.02	54	-11.98	2.696	123	Horizontal	1000000	0.1	5.929
17129.6	Peak (PASS)	54.905	74	-19.095	2.43	184	Vertical	1000000	0.1	5.468
17129.6	Average (PASS)	41.268	54	-12.732	2.43	184	Vertical	1000000	0.1	5.468
17780.6	Peak (PASS)	54.919	74	-19.081	2.206	39	Horizontal	1000000	0.1	4.061
17780.6	Average (PASS)	41.531	54	-12.469	2.206	39	Horizontal	1000000	0.1	4.061

Table 27. FCC 15.247 & RSS-247 BLE 2 Mbps Mid Channel 2440 MHz RSE – (1 – 18 GHz), Test Results

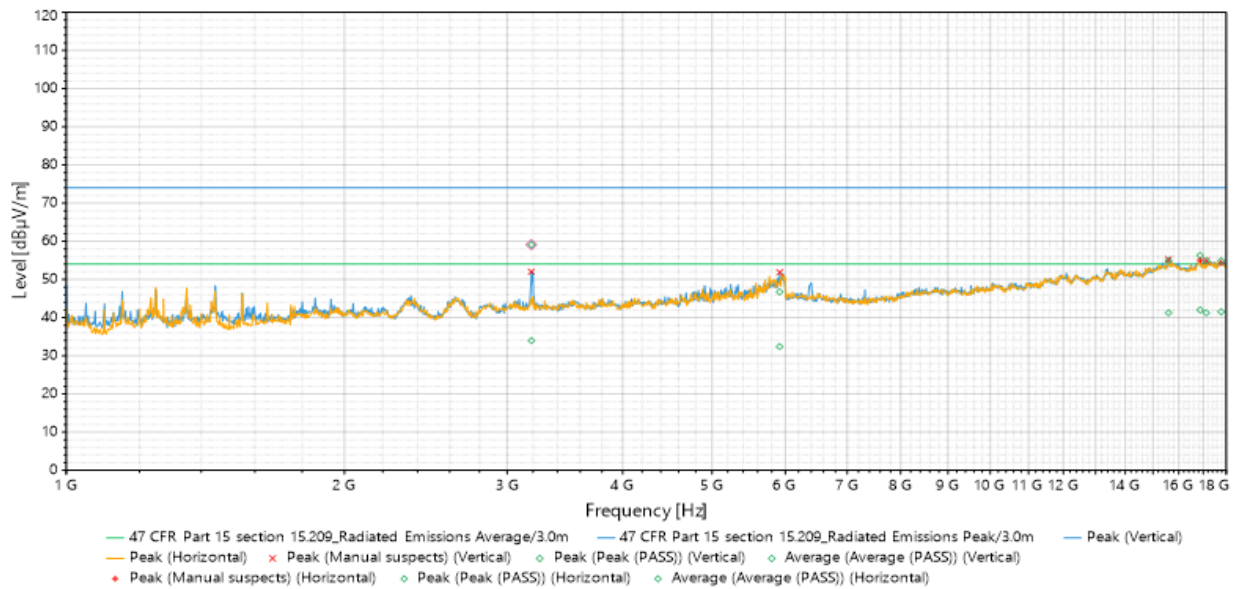


Figure 54. FCC 15.247 & RSS-247 BLE 2 Mbps Mid Channel 2440 MHz RSE – (1 – 18 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18041.9	Peak (PASS)	50.55	74	-23.45	3.229	335	Horizontal	1000000	0.1	-0.315
18041.9	Average (PASS)	36.397	54	-17.603	3.229	335	Horizontal	1000000	0.1	-0.315
18776	Peak (PASS)	49.324	74	-24.676	1.107	267	Vertical	1000000	0.1	-2.277
18776	Average (PASS)	35.32	54	-18.68	1.107	267	Vertical	1000000	0.1	-2.277
22578.8	Peak (PASS)	48.165	74	-25.835	1.967	327	Vertical	1000000	0.1	-2.204
22578.8	Average (PASS)	34.543	54	-19.457	1.967	327	Vertical	1000000	0.1	-2.204
23837.4	Peak (PASS)	47.746	74	-26.254	3.425	125	Vertical	1000000	0.1	-1.855
23837.4	Average (PASS)	33.677	54	-20.323	3.425	125	Vertical	1000000	0.1	-1.855
24943.8	Peak (PASS)	47.773	74	-26.227	2.419	3	Vertical	1000000	0.1	-1.834
24943.8	Average (PASS)	33.87	54	-20.13	2.419	3	Vertical	1000000	0.1	-1.834
25929.5	Peak (PASS)	48.735	74	-25.265	3.687	63	Horizontal	1000000	0.1	-0.736
25929.5	Average (PASS)	34.989	54	-19.011	3.687	63	Horizontal	1000000	0.1	-0.736

Table 28. FCC 15.247 & RSS-247 BLE 1 Mbps Mid Channel 2440 MHz RSE – (18 – 26 GHz), Test Results

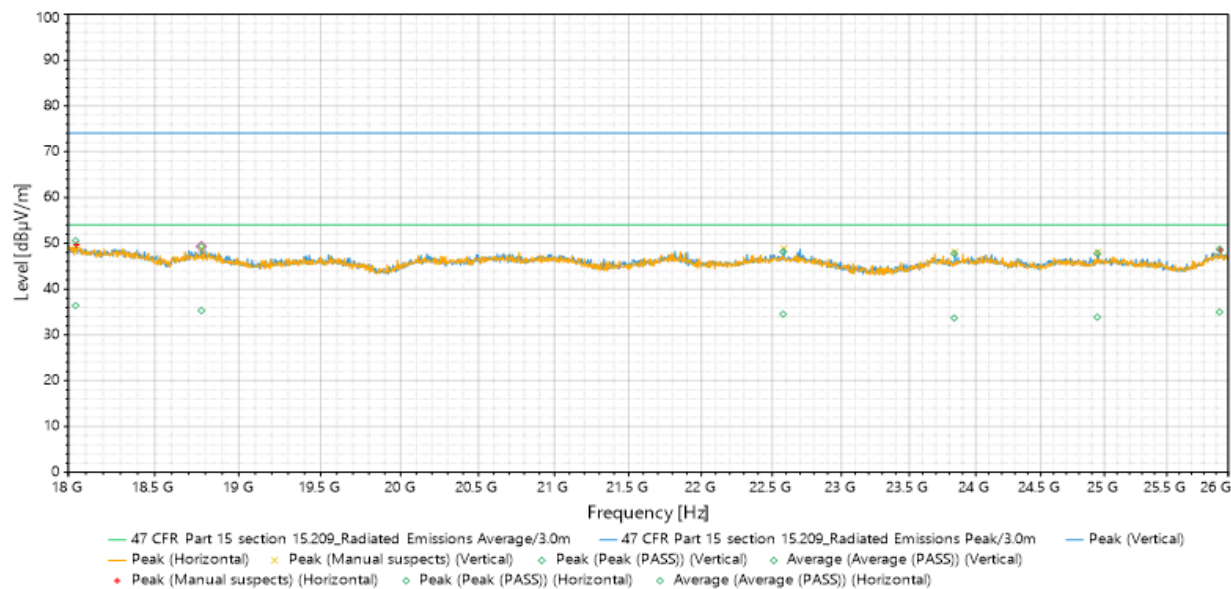


Figure 55. FCC 15.247 & RSS-247 BLE 1 Mbps Mid Channel 2440 MHz RSE – (18 – 26 GHz), Test Results

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18014	Peak (PASS)	50.505	74	-23.495	1.966	82	Horizontal	1000000	0.1	-0.252
18014	Average (PASS)	36.626	54	-17.374	1.966	82	Horizontal	1000000	0.1	-0.252
18308.6	Peak (PASS)	50.472	74	-23.528	2.714	22	Vertical	1000000	0.1	-1.09
18308.6	Average (PASS)	36.376	54	-17.624	2.714	22	Vertical	1000000	0.1	-1.09
21785.1	Peak (PASS)	48.061	74	-25.939	1.623	131	Vertical	1000000	0.1	-2.153
21785.1	Average (PASS)	34.625	54	-19.375	1.623	131	Vertical	1000000	0.1	-2.153
25809	Peak (PASS)	47.729	74	-26.271	3.471	289	Horizontal	1000000	0.1	-0.915
25809	Average (PASS)	33.83	54	-20.17	3.471	289	Horizontal	1000000	0.1	-0.915
25876	Peak (PASS)	49.207	74	-24.793	3.913	173	Vertical	1000000	0.1	-0.698
25876	Average (PASS)	34.851	54	-19.149	3.913	173	Vertical	1000000	0.1	-0.698
25908.4	Peak (PASS)	48.428	74	-25.572	1.163	123	Horizontal	1000000	0.1	-0.742
25908.4	Average (PASS)	34.93	54	-19.07	1.163	123	Horizontal	1000000	0.1	-0.742

Table 29. FCC 15.247 & RSS-247 BLE 2 Mbps Mid Channel 2440 MHz RSE – (18 – 26 GHz), Test Results

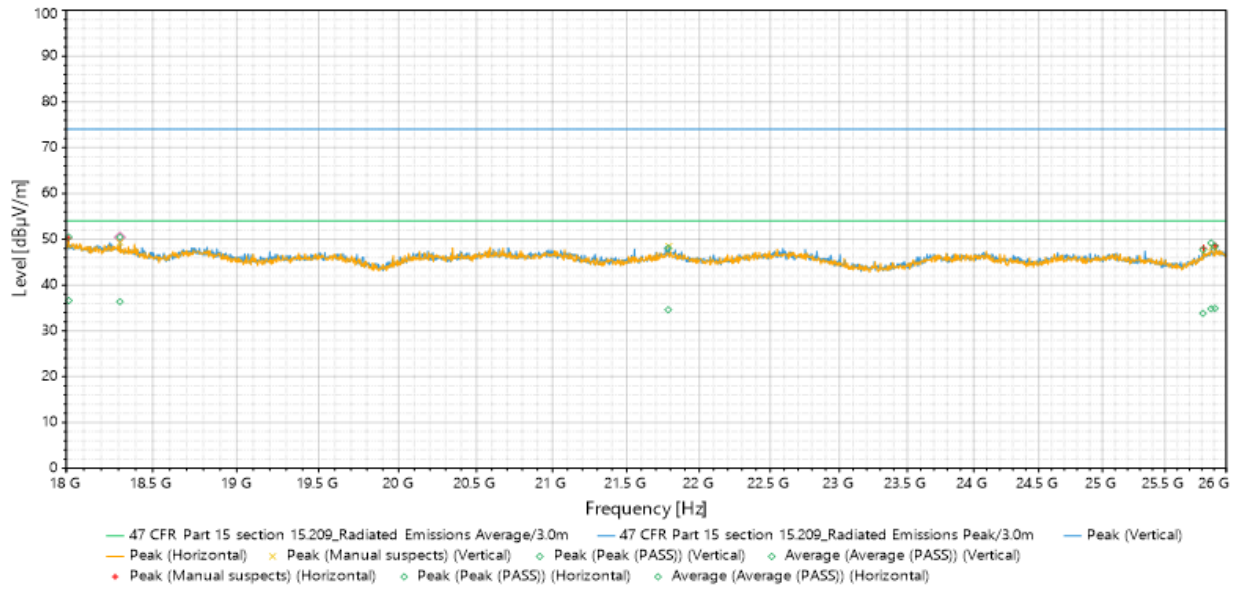


Figure 56. FCC 15.247 & RSS-247 BLE 2 Mbps Mid Channel 2440 MHz RSE – (18 – 26 GHz), Test Results

BLE High Channel 2480 MHz

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
47.664	QuasiPeak (PASS)	10.459	40	-29.541	1.589	192	Vertical	120000	0.1	-15.388
77.838	QuasiPeak (PASS)	30.261	40	-9.739	1.248	276	Vertical	120000	0.1	-16.721
83.556	QuasiPeak (PASS)	31.679	40	-8.321	1.248	256	Vertical	120000	0.1	-14.745
88.474	QuasiPeak (PASS)	36.349	43.522	-7.173	1.816	255	Vertical	120000	0.1	-12.448
122.656	QuasiPeak (PASS)	14.045	43.522	-29.477	1.936	150	Vertical	120000	0.1	-9.216
480.044	QuasiPeak (PASS)	35.588	46.021	-10.433	2.034	155	Horizontal	120000	0.1	-4.161

Table 30. FCC 15.247 & RSS-247 BLE 1 Mbps High Channel 2480 MHz RSE – (30 MHz – 1 GHz), Test Results

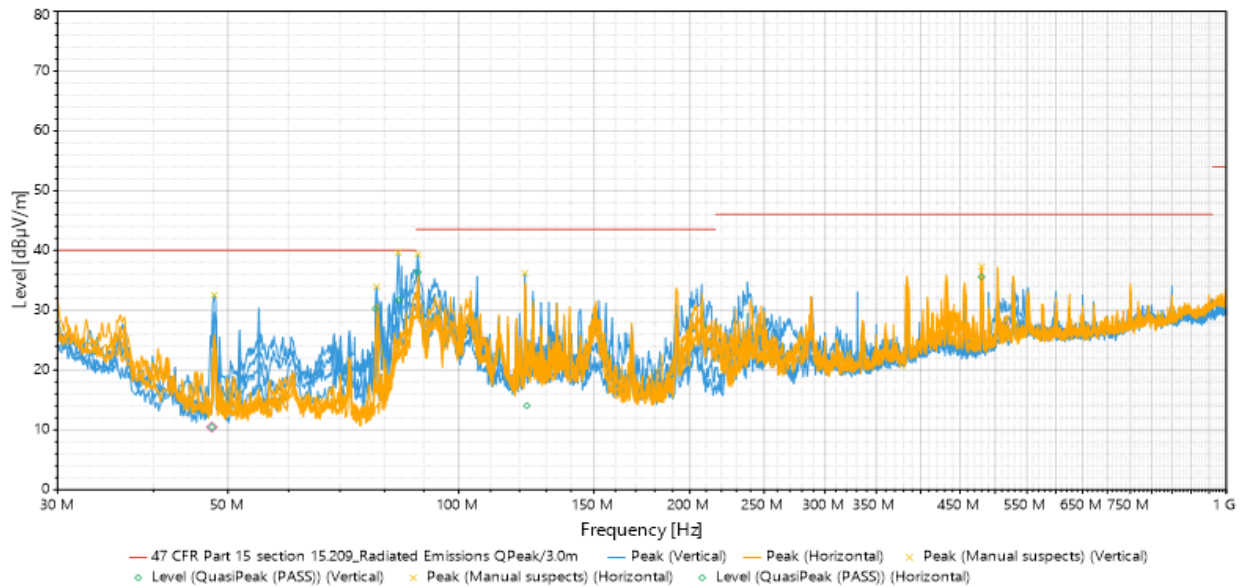


Figure 57. FCC 15.247 & RSS-247 BLE 1 Mbps High Channel 2480 MHz RSE – (30 MHz – 1 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
36.592	QuasiPeak (PASS)	27.624	40	-12.376	3.431	327	Horizontal	120000	0.1	-7.509
40.128	QuasiPeak (PASS)	12.827	40	-27.173	4	308	Horizontal	120000	0.1	-10.331
47.882	QuasiPeak (PASS)	21.106	40	-18.894	3.218	62	Vertical	120000	0.1	-15.389
83.244	QuasiPeak (PASS)	34.505	40	-5.495	1.03	240	Vertical	120000	0.1	-14.847
88.444	QuasiPeak (PASS)	37.807	43.522	-5.715	1.03	286	Vertical	120000	0.1	-12.463
121.768	QuasiPeak (PASS)	19.822	43.522	-23.7	2.187	195	Vertical	120000	0.1	-9.404

Table 31. FCC 15.247 & RSS-247 BLE 2 Mbps High Channel 2480 MHz RSE – (30 MHz – 1 GHz), Test Results

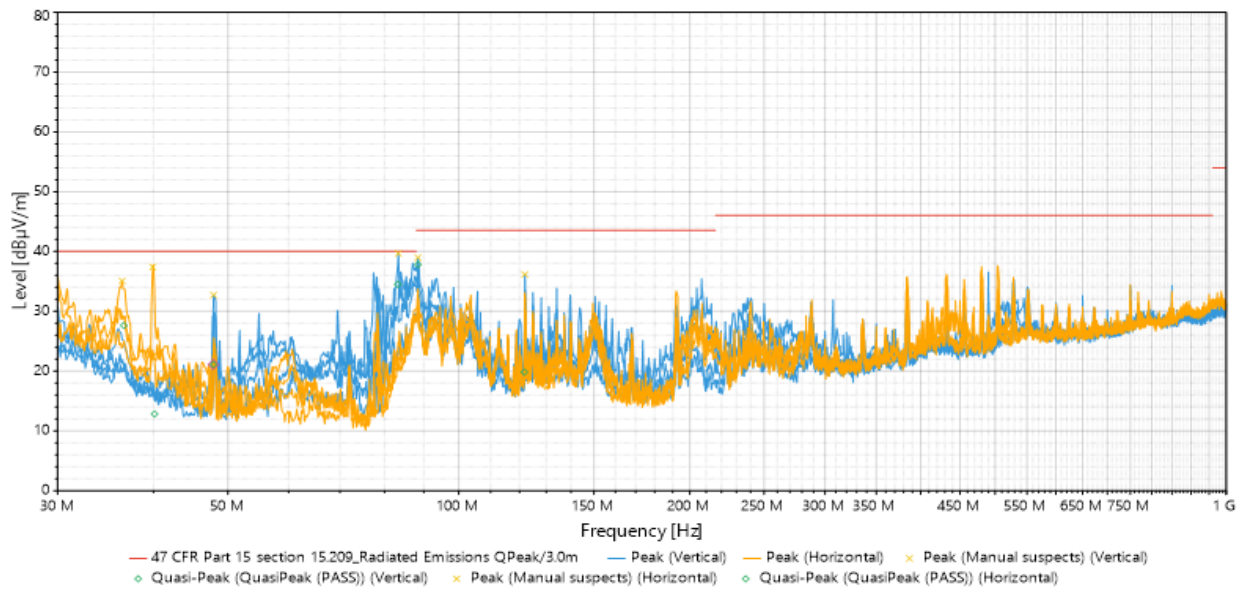


Figure 58. FCC 15.247 & RSS-247 BLE 2 Mbps High Channel 2480 MHz RSE – (30 MHz – 1 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
5903.4	Peak (PASS)	47.17	74	-26.83	1.531	-30	Horizontal	1000000	0.1	3.192
5903.4	Average (PASS)	32.739	54	-21.261	1.531	-30	Horizontal	1000000	0.1	3.192
6399.6	Peak (PASS)	56.855	74	-17.145	1.513	283	Vertical	1000000	0.1	3.759
6399.6	Average (PASS)	34.707	54	-19.293	1.513	283	Vertical	1000000	0.1	3.759
15673.8	Peak (PASS)	54.677	74	-19.323	3.389	323	Horizontal	1000000	0.1	7.154
15673.8	Average (PASS)	41.018	54	-12.982	3.389	323	Horizontal	1000000	0.1	7.154
15862	Peak (PASS)	55.455	74	-18.545	4	-18	Horizontal	1000000	0.1	6.85
15862	Average (PASS)	41.762	54	-12.238	4	-18	Horizontal	1000000	0.1	6.85
16981.1	Peak (PASS)	55.563	74	-18.437	2.311	342	Horizontal	1000000	0.1	5.73
16981.1	Average (PASS)	41.565	54	-12.435	2.311	342	Horizontal	1000000	0.1	5.73
17356.4	Peak (PASS)	56.386	74	-17.614	1.03	320	Vertical	1000000	0.1	4.774
17356.4	Average (PASS)	42.134	54	-11.866	1.03	320	Vertical	1000000	0.1	4.774
17744.3	Peak (PASS)	54.948	74	-19.052	2.09	130	Vertical	1000000	0.1	4.196
17744.3	Average (PASS)	41.342	54	-12.658	2.09	130	Vertical	1000000	0.1	4.196

Table 32. FCC 15.247 & RSS-247 BLE 1 Mbps High Channel 2480 MHz RSE – (1 – 18 GHz), Test Results

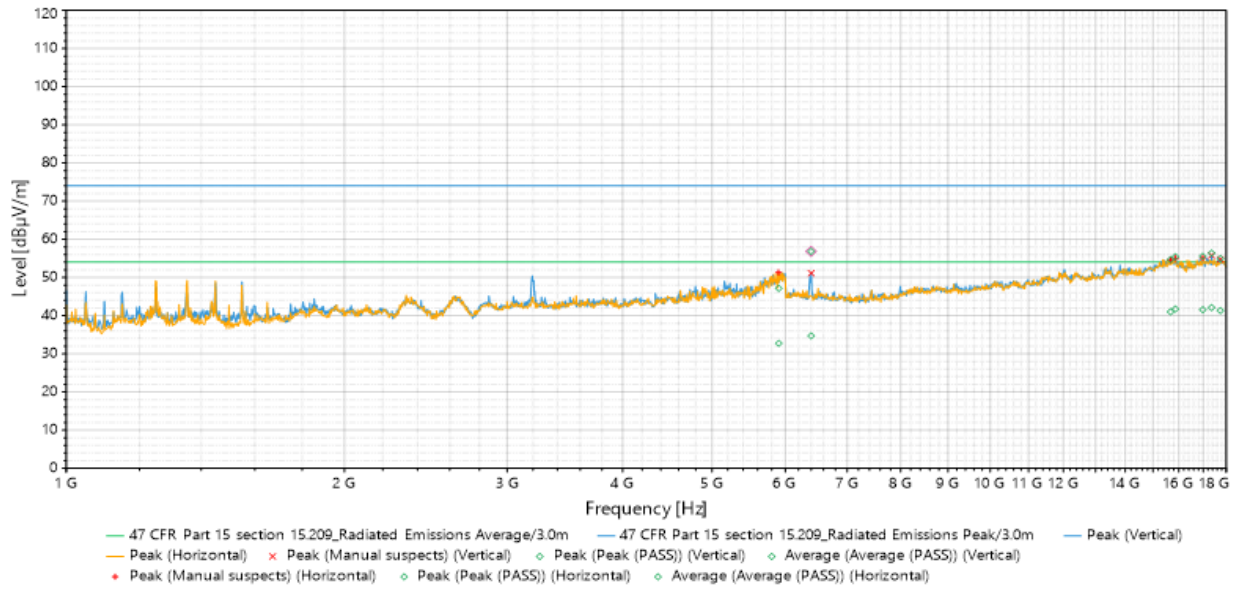


Figure 59. FCC 15.247 & RSS-247 BLE 1 Mbps High Channel 2480 MHz RSE – (1 – 18 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
3187.3	Peak (PASS)	57.48	74	-16.52	1.389	264	Vertical	1000000	0.1	0.515
3187.3	Average (PASS)	33.135	54	-20.865	1.389	264	Vertical	1000000	0.1	0.515
5981.5	Peak (PASS)	46.918	74	-27.082	2.469	-17	Horizontal	1000000	0.1	3.499
5981.5	Average (PASS)	32.904	54	-21.096	2.469	-17	Horizontal	1000000	0.1	3.499
15587.3	Peak (PASS)	54.929	74	-19.071	2.664	101	Horizontal	1000000	0.1	7.015
15587.3	Average (PASS)	41.201	54	-12.799	2.664	101	Horizontal	1000000	0.1	7.015
15854	Peak (PASS)	55.153	74	-18.847	1.996	19	Vertical	1000000	0.1	7.086
15854	Average (PASS)	41.524	54	-12.476	1.996	19	Vertical	1000000	0.1	7.086
16832.6	Peak (PASS)	55.165	74	-18.835	1.283	-5	Horizontal	1000000	0.1	5.928
16832.6	Average (PASS)	41.462	54	-12.538	1.283	-5	Horizontal	1000000	0.1	5.928
17383.7	Peak (PASS)	55.938	74	-18.062	2.426	358	Horizontal	1000000	0.1	4.653
17383.7	Average (PASS)	42.233	54	-11.767	2.426	358	Horizontal	1000000	0.1	4.653
17783.4	Peak (PASS)	54.943	74	-19.057	3.39	215	Vertical	1000000	0.1	4.159
17783.4	Average (PASS)	41.512	54	-12.488	3.39	215	Vertical	1000000	0.1	4.159

Table 33. FCC 15.247 & RSS-247 BLE 2 Mbps High Channel 2480 MHz RSE – (1 – 18 GHz), Test Results

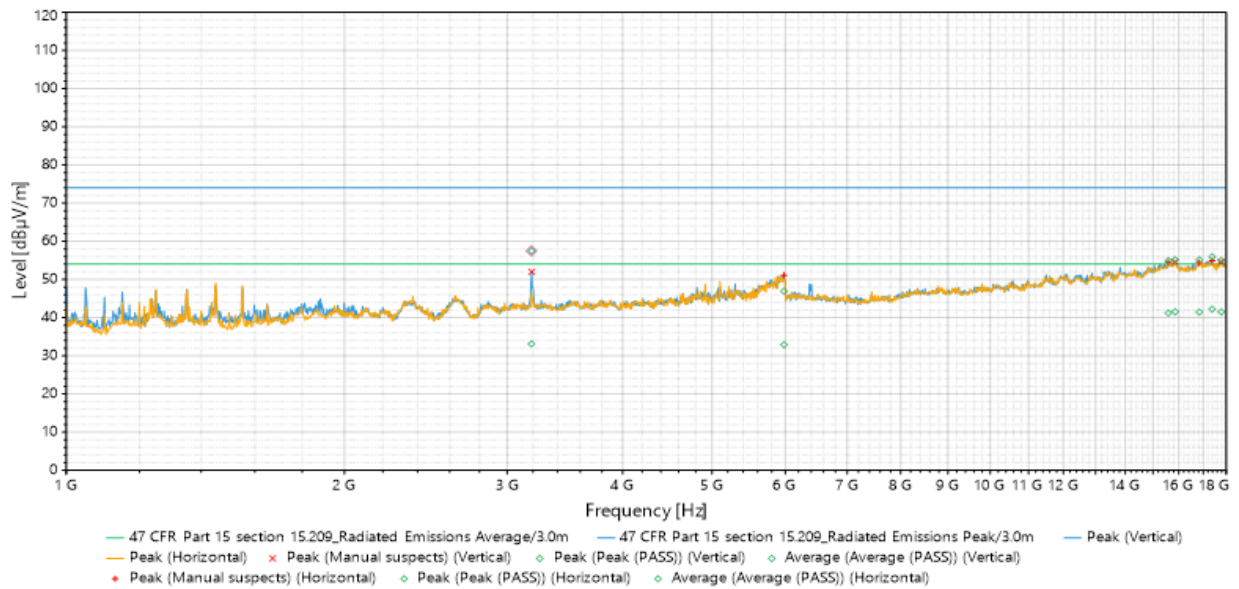


Figure 60. FCC 15.247 & RSS-247 BLE 2 Mbps High Channel 2480 MHz RSE – (1 – 18 GHz), Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2484.37	Peak (PASS)	60.986	74	-13.014	2.975	211	Vertical	1000000	0.1	36.405
2484.37	Average (PASS)	44.084	54	-9.916	2.975	211	Vertical	1000000	0.1	36.405
2485	Peak (PASS)	60.61	74	-13.39	3.743	-1	Horizontal	1000000	0.1	36.213
2485	Average (PASS)	43.902	54	-10.098	3.743	-1	Horizontal	1000000	0.1	36.213
2485.78	Peak (PASS)	60.634	74	-13.366	2.84	17	Vertical	1000000	0.1	36.413
2485.78	Average (PASS)	44.133	54	-9.867	2.84	17	Vertical	1000000	0.1	36.413
2490.19	Peak (PASS)	60.432	74	-13.568	3.315	29	Horizontal	1000000	0.1	36.239
2490.19	Average (PASS)	43.974	54	-10.026	3.315	29	Horizontal	1000000	0.1	36.239
2490.67	Peak (PASS)	60.863	74	-13.137	2.286	199	Vertical	1000000	0.1	36.442
2490.67	Average (PASS)	44.199	54	-9.801	2.286	199	Vertical	1000000	0.1	36.442
2496.19	Peak (PASS)	60.969	74	-13.031	1.063	-30	Horizontal	1000000	0.1	36.252
2496.19	Average (PASS)	44.12	54	-9.88	1.063	-30	Horizontal	1000000	0.1	36.252

Table 34. FCC 15.247 & RSS-247 BLE 1 Mbps High Channel 2480 MHz RSE – Upper Band Edge, Test Results

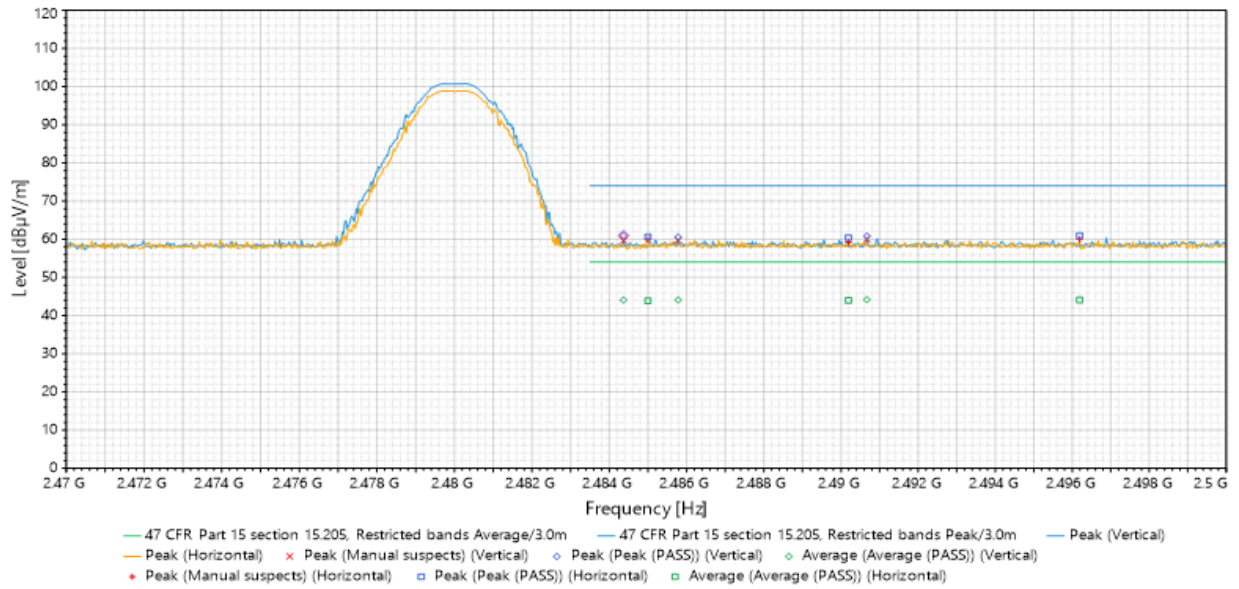


Figure 61. FCC 15.247 & RSS-247 BLE 1 Mbps High Channel 2480 MHz RSE – Upper Band Edge, Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2483.62	Peak (PASS)	61.113	74	-12.887	3.655	28	Vertical	1000000	0.1	36.4
2483.62	Average (PASS)	44.221	54	-9.779	3.655	28	Vertical	1000000	0.1	36.4
2485.33	Peak (PASS)	60.751	74	-13.249	2.179	4	Horizontal	1000000	0.1	36.215
2485.33	Average (PASS)	43.898	54	-10.102	2.179	4	Horizontal	1000000	0.1	36.215
2486.5	Peak (PASS)	61.245	74	-12.755	2.614	-15	Vertical	1000000	0.1	36.418
2486.5	Average (PASS)	44.136	54	-9.864	2.614	-15	Vertical	1000000	0.1	36.418
2487.88	Peak (PASS)	60.963	74	-13.037	2.95	275	Horizontal	1000000	0.1	36.228
2487.88	Average (PASS)	43.94	54	-10.06	2.95	275	Horizontal	1000000	0.1	36.228
2491.84	Peak (PASS)	61.213	74	-12.787	2.625	218	Vertical	1000000	0.1	36.446
2491.84	Average (PASS)	44.227	54	-9.773	2.625	218	Vertical	1000000	0.1	36.446
2496.13	Peak (PASS)	61.697	74	-12.303	3.29	368	Horizontal	1000000	0.1	36.252
2496.13	Average (PASS)	44.102	54	-9.898	3.29	368	Horizontal	1000000	0.1	36.252

Table 35. FCC 15.247 & RSS-247 BLE 2 Mbps High Channel 2480 MHz RSE – Upper Band Edge, Test Results

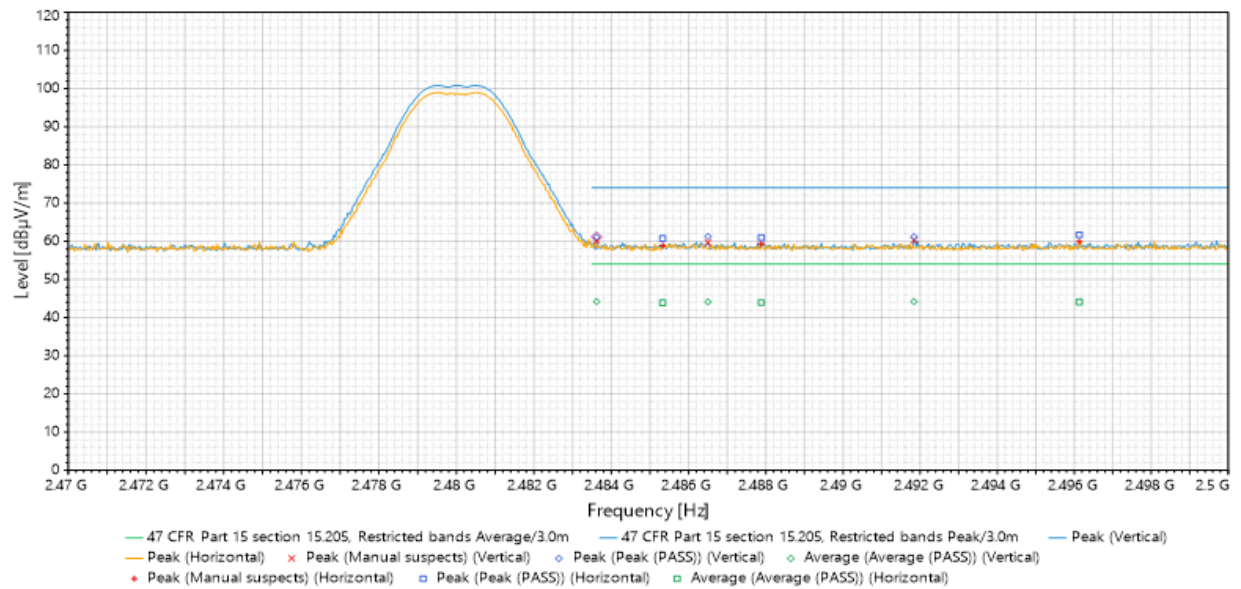


Figure 62. FCC 15.247 & RSS-247 BLE 2 Mbps High Channel 2480 MHz RSE – Upper Band Edge, Plot

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18028	Peak (PASS)	50.383	74	-23.617	2.645	115	Horizontal	1000000	0.1	-0.284
18028	Average (PASS)	36.541	54	-17.459	2.645	115	Horizontal	1000000	0.1	-0.284
18412.9	Peak (PASS)	49.07	74	-24.93	3.774	89	Vertical	1000000	0.1	-1.586
18412.9	Average (PASS)	35.371	54	-18.629	3.774	89	Vertical	1000000	0.1	-1.586
18867.6	Peak (PASS)	48.358	74	-25.642	2.231	9	Horizontal	1000000	0.1	-2.596
18867.6	Average (PASS)	34.741	54	-19.259	2.231	9	Horizontal	1000000	0.1	-2.596
22509.4	Peak (PASS)	48.111	74	-25.889	1.062	-10	Horizontal	1000000	0.1	-2.209
22509.4	Average (PASS)	34.333	54	-19.667	1.062	-10	Horizontal	1000000	0.1	-2.209
24880.5	Peak (PASS)	47.391	74	-26.609	3.566	75	Vertical	1000000	0.1	-1.773
24880.5	Average (PASS)	33.291	54	-20.709	3.566	75	Vertical	1000000	0.1	-1.773
25961.2	Peak (PASS)	48.853	74	-25.147	2.408	7	Vertical	1000000	0.1	-0.589
25961.2	Average (PASS)	34.995	54	-19.005	2.408	7	Vertical	1000000	0.1	-0.589

Table 36. FCC 15.247 & RSS-247 BLE 1 Mbps High Channel 2480 MHz RSE – (18 – 26 GHz), Test Results

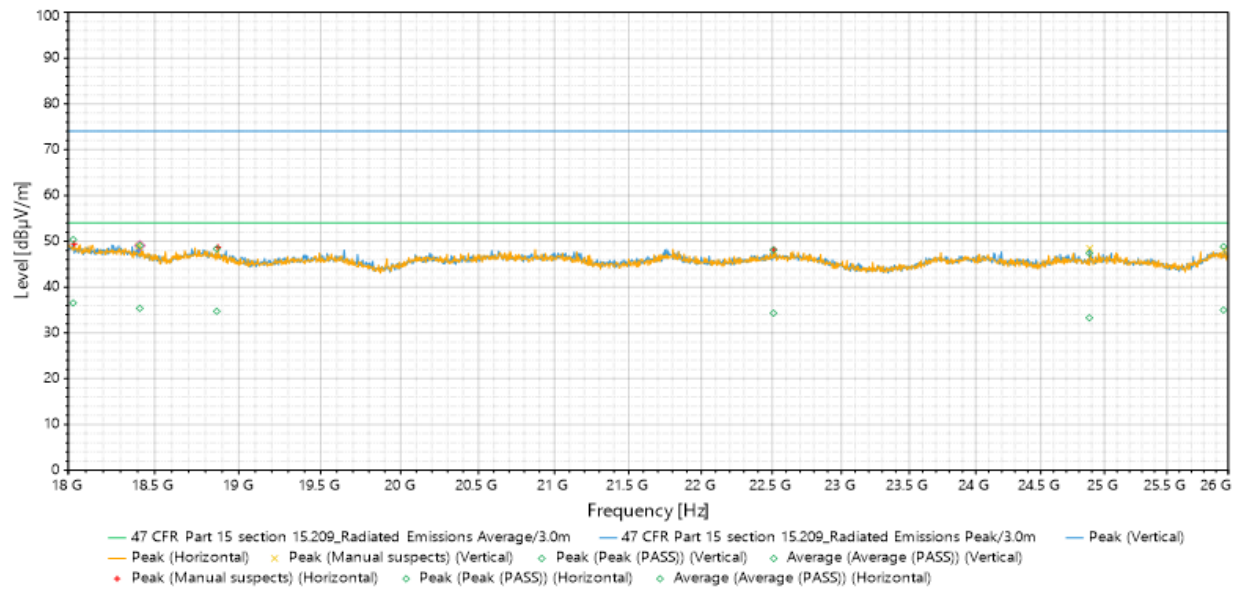


Figure 63. FCC 15.247 & RSS-247 BLE 1 Mbps High Channel 2480 MHz RSE – (18 – 26 GHz), Test Results

Frequency (MHz)	Source	Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
18054.8	Peak (PASS)	50.858	74	-23.142	1.966	140	Vertical	1000000	0.1	-0.46
18054.8	Average (PASS)	36.344	54	-17.656	1.966	140	Vertical	1000000	0.1	-0.46
18832.1	Peak (PASS)	49.257	74	-24.743	1.504	-11	Vertical	1000000	0.1	-2.365
18832.1	Average (PASS)	35.197	54	-18.803	1.504	-11	Vertical	1000000	0.1	-2.365
21777.6	Peak (PASS)	48.596	74	-25.404	2.995	222	Vertical	1000000	0.1	-2.161
21777.6	Average (PASS)	34.52	54	-19.48	2.995	222	Vertical	1000000	0.1	-2.161
22546.7	Peak (PASS)	48.213	74	-25.787	1.453	174	Horizontal	1000000	0.1	-2.227
22546.7	Average (PASS)	34.38	54	-19.62	1.453	174	Horizontal	1000000	0.1	-2.227
24800.6	Peak (PASS)	46.823	74	-27.177	1.814	23	Vertical	1000000	0.1	-1.77
24800.6	Average (PASS)	32.892	54	-21.108	1.814	23	Vertical	1000000	0.1	-1.77
25881.8	Peak (PASS)	48.842	74	-25.158	3.67	34	Vertical	1000000	0.1	-0.68
25881.8	Average (PASS)	34.912	54	-19.088	3.67	34	Vertical	1000000	0.1	-0.68

Table 37. FCC 15.247 & RSS-247 BLE 2 Mbps High Channel 2480 MHz RSE – (18 – 26 GHz), Test Results

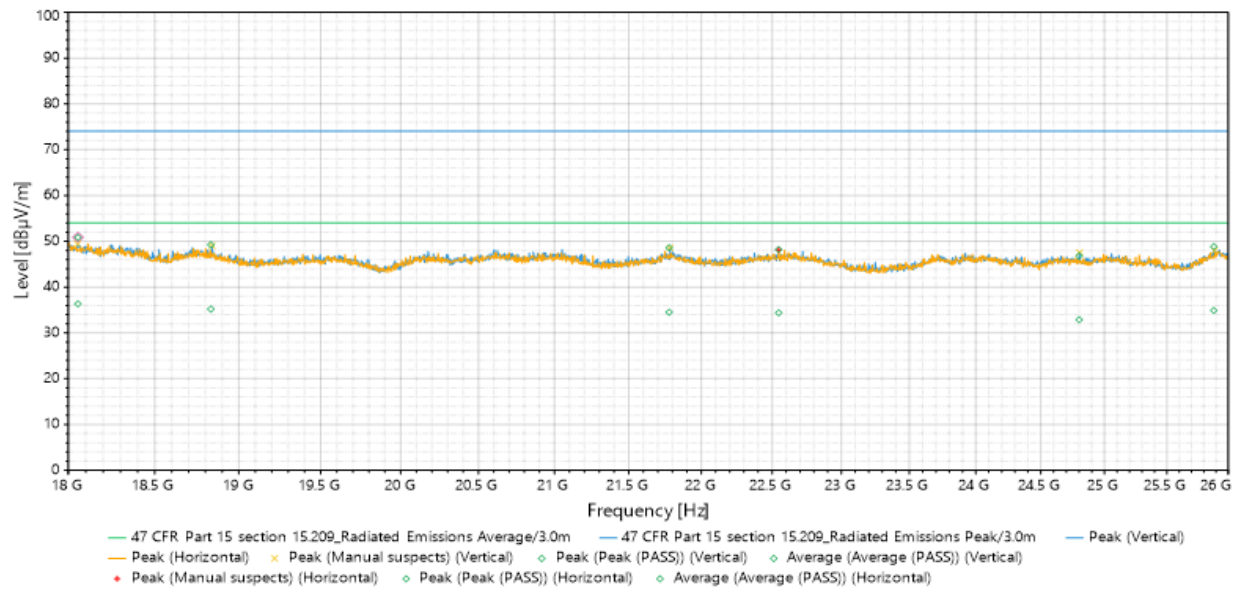


Figure 64. FCC 15.247 & RSS-247 BLE 2 Mbps High Channel 2480 MHz RSE – (18 – 26 GHz), Test Results

Test Equipment List

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2005.

Test Name: FCC 15.247 & RSS-247			Test Date(s): 02/25/2026		
MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2399	Turntable Controller	Sunol Sciences	SC99V	See Note 1	
1S4856	Antenna Positioning Tower	ETS-Lindgren	2171B	See Note 1	
1S2482	5 Meter Chamber	Panashield - ETS	5 Meter Semi-Anechoic Chamber	See Note 2	
1S4804	EMI Test Receiver	Rohde & Schwarz	ESW44	08/15/2025	08/15/2026
1S2600	Bilog Antenna	Teseq	CBL6112D	06/10/2025	06/10/2027
1S2435	Horn Antenna	ETS-Lindgren	3117	03/17/2025	03/17/2027
1U0327	DRG Horn Antenna	A.H. Systems, Inc.	SAS-574	11/28/2024	11/28/2026
1S2668	Pre-Amplifier	Sonoma Instruments	310 N	03/18/2025	03/18/2027
1S2755	Low Noise Amplifier	EMC Shop	PA18G-HB	12/03/2024	12/03/2026
1S3866	Table Top Amplifier	MITEQ	TTA1840-35-HG	12/03/2024	12/03/2026
Note 1: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.					
Note 2: Latest NSA and VSWR data available upon request.					

Table 38. Radiated Spurious Emissions, Test Equipment

END OF REPORT