TEST REPORT

Report Number. ..... :	90683-25-72-25-PP001	
Date of issue ..... :	2025-07-28	
Prepared by (+signature)..... :	Pale Cai	
Reviewer (+signature)..... :	Duke Chen	
Approved by (+signature) ..... :	Jason Gao	
Testing Laboratory name ..... :	SLG-CPC Testlaboratory Co., Ltd.	
Address ..... :	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China	
Applicant's name ..... :	ANKER INNOVATIONS LIMITED	
Address ..... :	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong	
Manufacturer's name ..... :	ANKER INNOVATIONS LIMITED	
Address ..... :	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong	
Standard(s) ..... :	FCC 47 CFR Part 15, Subpart C	
EUT ..... :	Anker Nano Charger (45W, Smart Display)	
Trade Mark ..... :	ANKER	
Model/Type reference ..... :	A2693, B2693	
FCC ID ..... :	2AOKB-A2693	
Date of receipt of test item ..... :	2025.07.07	
Date (s) of performance of test:	2025.07.07 - 2025.07.16	
Summary of Test Results ..... :	**Pass**	

The Summary of Test Results based on a technical opinion belongs to the standard(s).

General disclaimer:

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Table of Contents

Modified Information

Report No.	Revision Data	Summary
90683-25-72-25-PP001	2025-07-28	Original Version

1 EUT TECHNICAL DESCRIPTION

Product:	Anker Nano Charger (45W, Smart Display)
Model Number:	A2693, B2693
Model Differences:	All the models are the same except for the differences in model names.
Power supply:	☐: DC 3V ☒: Adapter information Input: 100-240V~,1.2A, 50-60Hz Output: 5V⎓3A,9V⎓3A/15V⎓3A/20V⎓2.25A(45W Max) PPS:5V-11V⎓5A(45W Max) 4.5V-21V⎓2.25A (45W Max) 5V-16V⎓3A (45W Max)
Hardware:	V1.2
Software:	V0.0.2.0
Modulation:	BLE
Frequency Range:	2402MHz～2480MHz
Number of Channels:	40channels
Channel Space:	2MHz
Antenna Gain:	0.11dBi
Antenna:	FPC Antenna
Temperature Range:	-20~+60℃

Note: for more details, please refer to the User's manual of the EUT.

2 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.247(a)(2)	DTS (6dB) Bandwidth	PASS	
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS	
15.247(e)	Maximum Power Spectral Density Level	PASS	
15.247(d)	Unwanted Emission Into Non-Restricted Frequency Bands(conducted)	PASS	
15.247(d) 15.209	Radiated Spurious Emission	PASS	
15.207	Conducted Emission Test	PASS	
15.247(b) 15.203	Antenna Requirement	PASS	
	NOTE1: N/A (Not Applicable) NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.		

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AOKB-A2693 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:
FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
FCC KDB 558074 D01 15.247 Meas Guidance v05r02

3.2 MEASUREMENT EQUIPMENT USED

Equipment	Manufacturer	Model	S/N	Last Cal.	Cal. Due
RF Connected Test					
Vector Signal Generater	Rohde & Schwarz	SMBV100B(6G)	101166	2025/04/16	1 year
Analog Signal Generator	Rohde & Schwarz	SMB100A(40G)	181333	2025/06/18	1 year
Signal Analyzer	Rohde & Schwarz	FSV40	101527	2025/03/26	1 year
Power Analyzer	Rohde & Schwarz	OSP-B157W8	N/A	2025/04/16	1 year
Wideband Radio Communication Tester	R&S	CMW270	101985	2025/04/18	1 year
Temperature&Humidity test chamber	ESPEC	VC 4018	/	2025/04/14	1 year
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	166898	2025/03/26	1 year
Radiated Emission Test					
EMI Test Receiver	KEYSIGHT	N9010A	MY56070465	2024/12/03	1 year
EMI Test Receiver	Rohde & Schwarz	FSV40	101511	2025/01/10	1 year
Bilog Antenna	Schwarzbeck	VULB 9163	01335	2023/04/21	3 year
Broadband Antenna	Schwarzbeck	9162	139	2025/03/01	3 year
Power Amplifier	EMEC	EM330	060676	2025/03/11	3 year
Cable	Tuyue	F4309	L-400-NmNm-12000	2024/12/03	2 year
Horn Antenna	Schwarzbeck	BBHA9120D	1779	2025/03/28	3 year
Horn Antenna	Schwarzbeck	BBHA9170	00954	2022/09/13	3 year
Power Amplifier	Rohde & Schwarz	SCU08F2	08400019	2025/03/24	3 year
Power Amplifier	Rohde & Schwarz	SCU-18F	180118	2025/03/24	3 year
Power Amplifier	Rohde & Schwarz	SCU40A	100499	2023/06/21	3 year
Active Loop Antenna	ETS LINDGREN	6512	41623	2025/03/19	3 year
Test Software	Farad	EZ-EMC	Ver.CPC-3A1	/	/
Conducted Emission Test					
LISN	Schwarzbeck	NSLK 8127	8127-892	2025/03/17	1 year
EMI Test Receiver	R&S	ESR3	102124	2024/12/03	1 year
Pulse Limiter	R&S	ESH3-Z2	357.8810.52	2024/12/03	1 year
Test Software	Farad	EZ-EMC	Ver.CPC-3A1	/	/

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.
The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (BLE :1Mbps) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for BLE:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440	37	2476
1	2404	20	2442	38	2478
2	2406	21	2444	39	2480
…	…	…	…		
Note: fc=2402MHz+k×1MHz k=0 to 39					

Test Frequency and channel for BLE:

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440	39	2480

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 11, Wu Song Road, Dongcheng District, Dongguan, Guangdong Province, China 523117
The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.10 and CISPR Publication 32.

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.	:	Accredited by ISED, October 31 2023 CAB identifier: CN0126 Company Number: 27767 Accredited by A2LA, October 31 2023 The Certificate Registration Number is 6325.01 Accredited by FCC Designation Number: CN1287 Test Firm Registration Number: 394054
Name of Firm	:	SLG-CPC Testlaboratory Co., Ltd.
Site Location	:	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China

5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

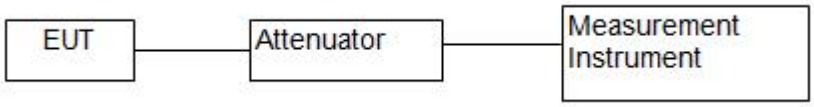
Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0%
Conducted Emissions Test	±3.68dB
Radiated Emission Test	4.80dB (below 1G) 3.28dB (above 1GHz)
Power Density	±0.9%
Occupied Bandwidth Test	±2.3%
Band Edge Test	±1.2%
Antenna Port Emission	±3dB
Temperature	±3.2%
Humidity	±2.5%

Measurement Uncertainty for a level of Confidence of 95%

6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The BLE component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz：

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

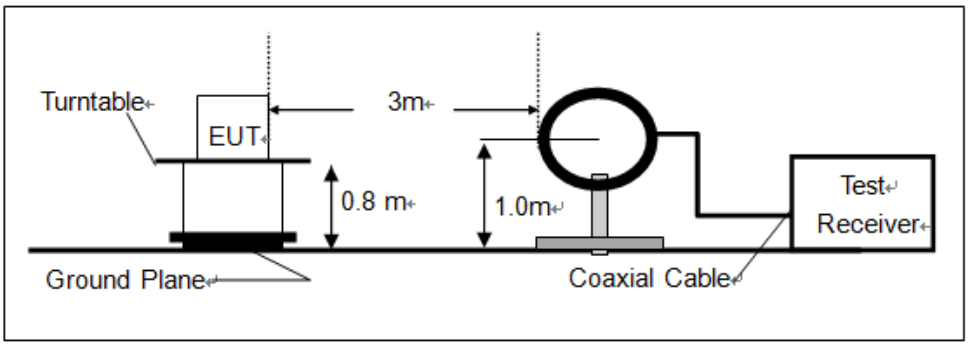
30MHz-1GHz：

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

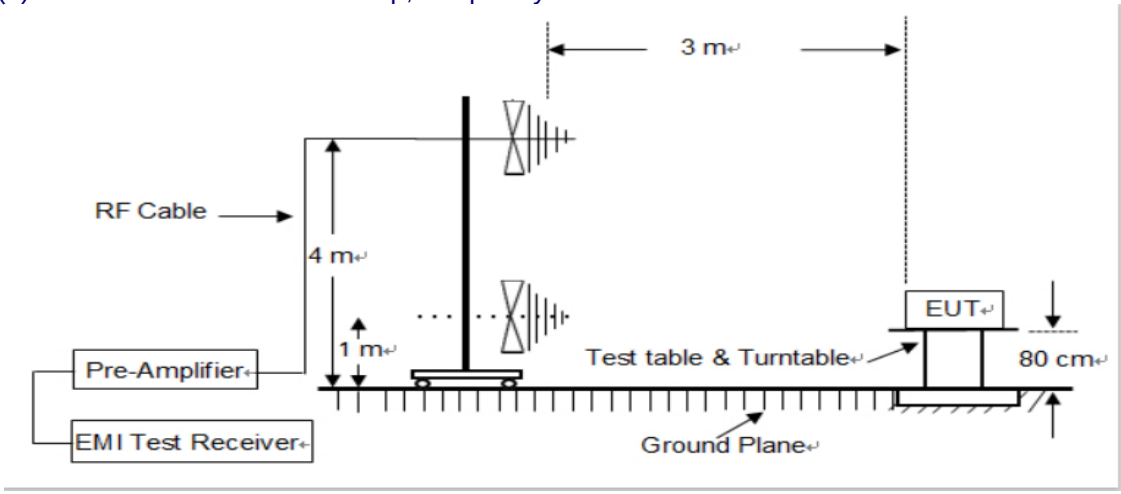
Above 1GHz：

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

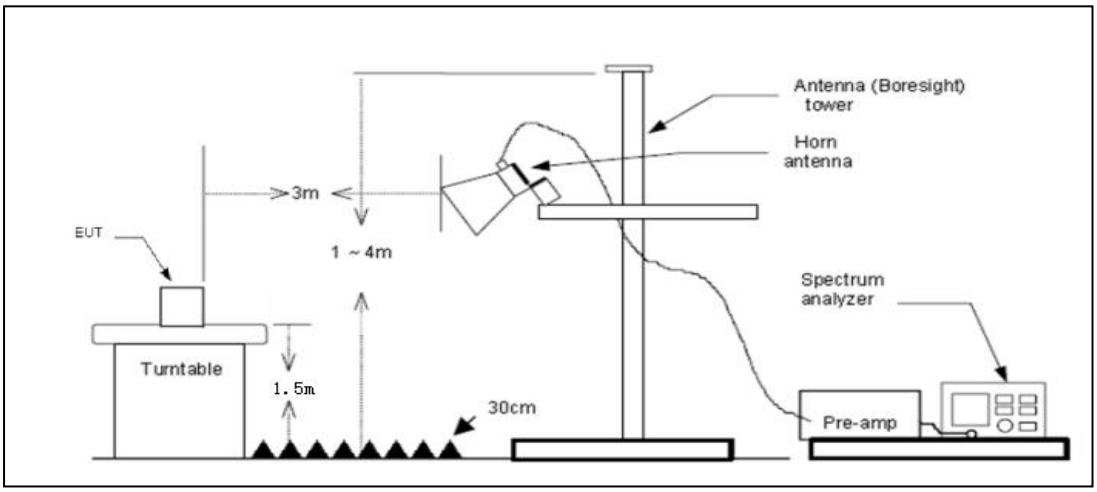
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz

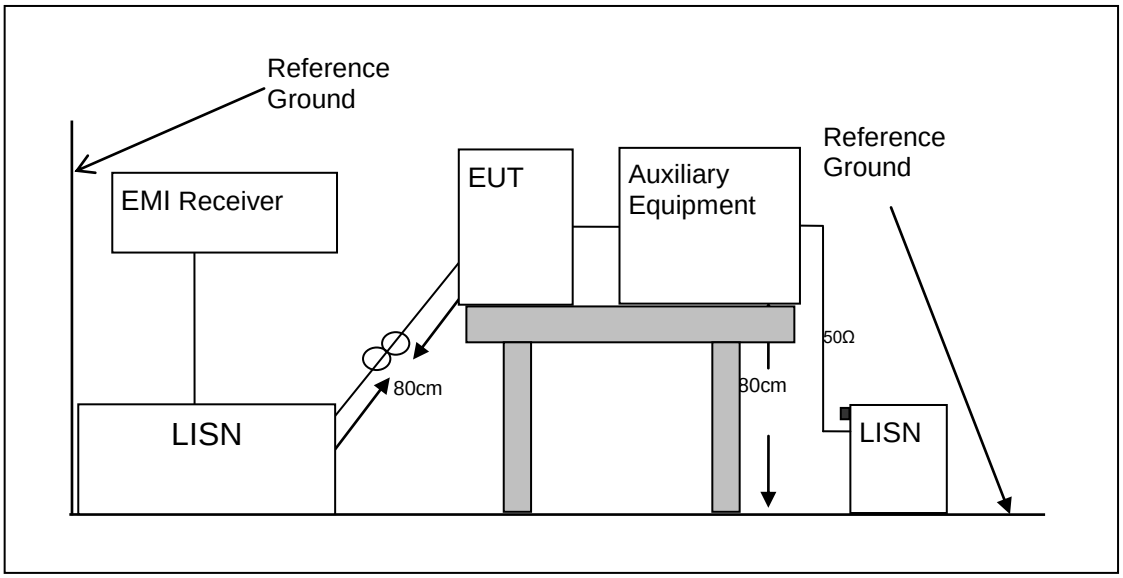


(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



6.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.
Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.
According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7 TEST REQUIREMENTS

7.1 DTS 6DB BANDWIDTH

7.1.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.1.2 Conformance Limit

The minimum -6 dB bandwidth shall be at least 500 kHz.

7.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.1.4 Test Procedure

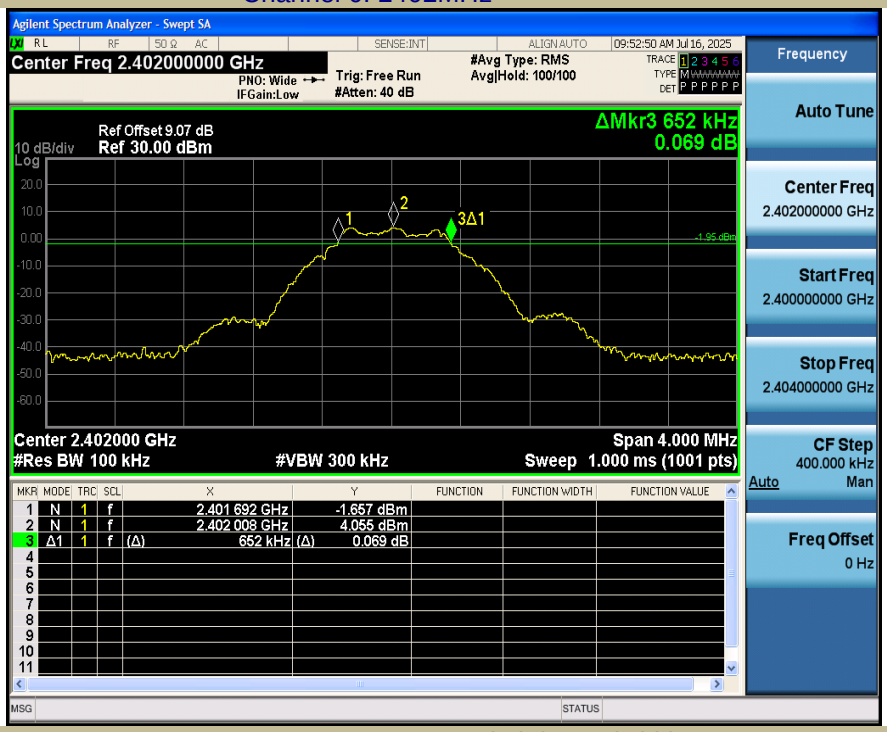
The EUT was operating in BLE mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
Set to the maximum power setting and enable the EUT transmit continuously
Set RBW = 100 kHz.
Set the video bandwidth (VBW) =300 kHz.
Set Span=2 times OBW
Set Detector = Peak.
Set Trace mode = max hold.
Set Sweep = auto couple.
Allow the trace to stabilize.
Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Measure and record the results in the test report.

Test Results

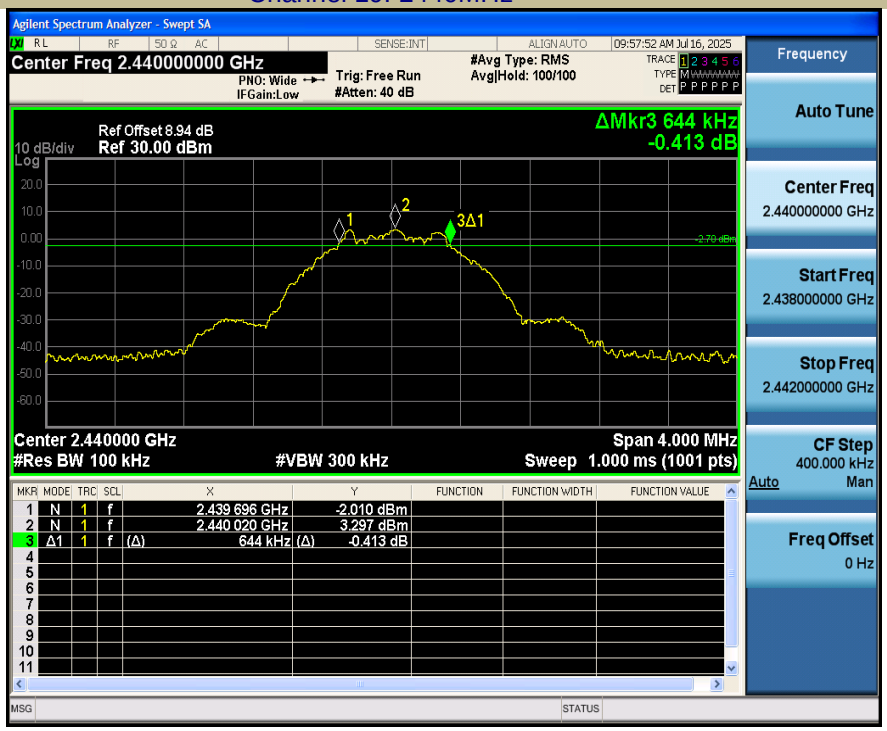
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Bandwidth (MHz)	Limit (kHz)	Verdict
BLE (GFSK-1M)	0	2402	0.652	>500	PASS
	19	2440	0.644	>500	PASS
	39	2480	0.656	>500	PASS
BLE (GFSK-2M)	0	2402	1.136	>500	PASS
	19	2440	1.092	>500	PASS
	39	2480	1.136	>500	PASS

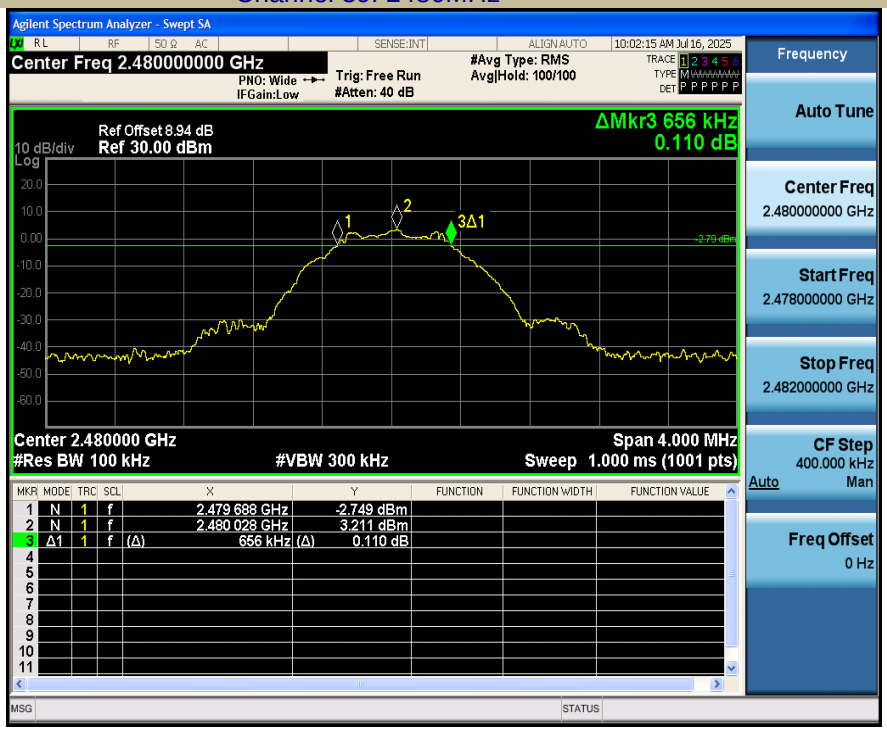
Test Model	DTS (6dB) Bandwidth BLE(GFSK-1M) Channel 0: 2402MHz



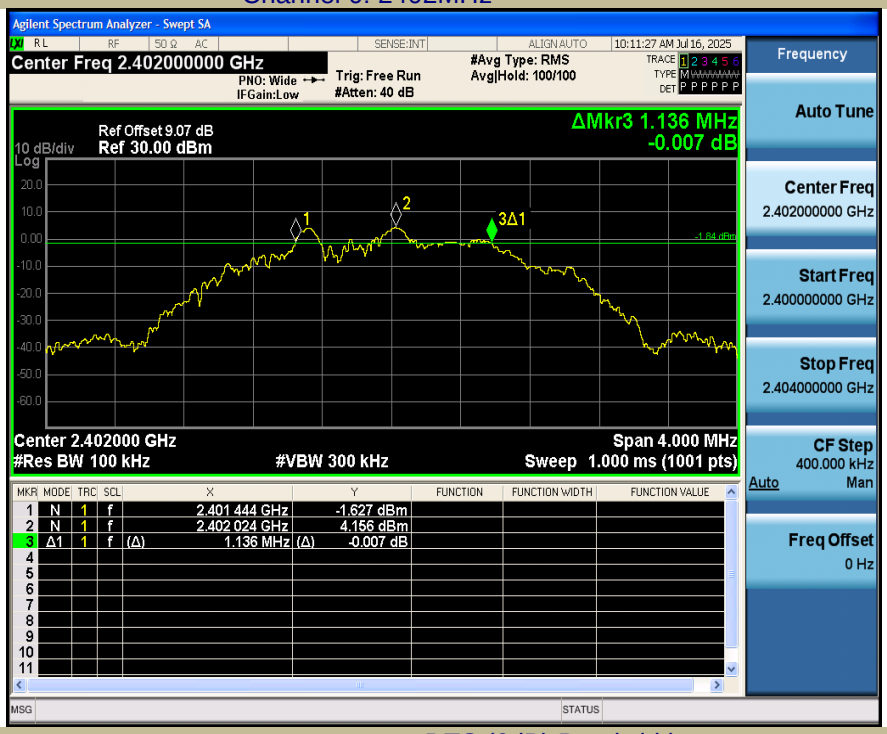
Test Model	DTS (6dB) Bandwidth BLE(GFSK-1M) Channel 19: 2440MHz



Test Model	DTS (6dB) Bandwidth BLE(GFSK-1M) Channel 39: 2480MHz

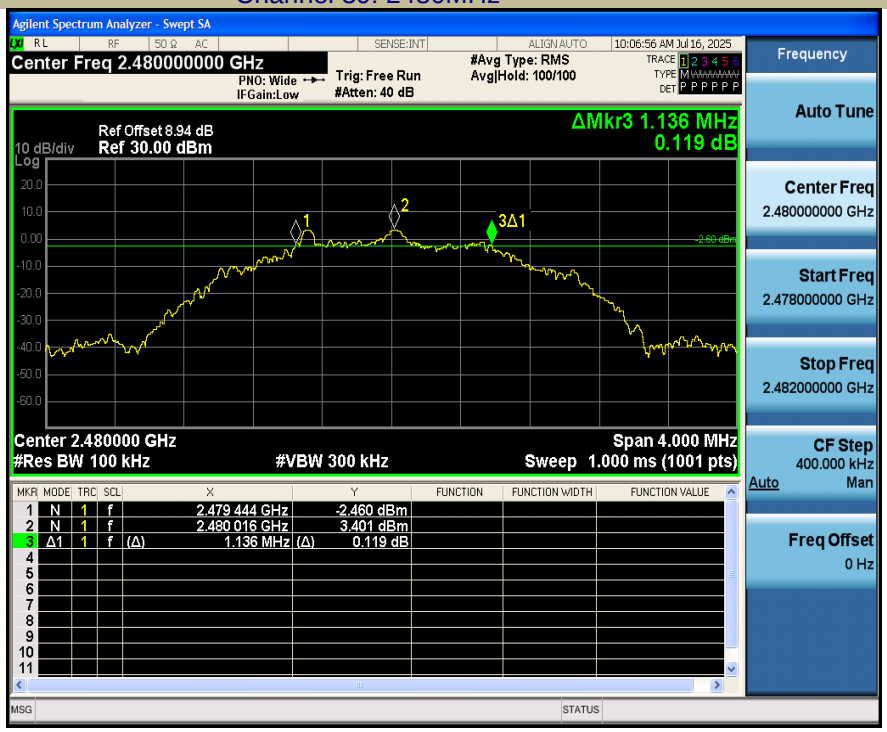


Test Model	DTS (6dB) Bandwidth BLE(GFSK-2M) Channel 0: 2402MHz



Test Model	DTS (6dB) Bandwidth BLE(GFSK-2M) Channel 19: 2440MHz

Test Model	DTS (6dB) Bandwidth BLE(GFSK-2M) Channel 39: 2480MHz



7.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

7.2.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02

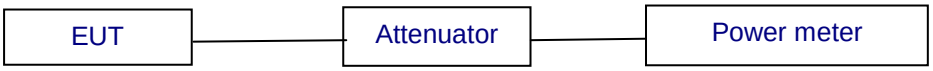
7.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

7.2.3 Test Configuration

Test according to clause 7.2.4 radio frequency test setup

7.2.4 Test Procedure



■ According to FCC Part 15.247(b)(4):
Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ Place the EUT on the desktop and set it to launch mode. Remove the antenna from the EUT and connect the low-loss RF cable from the antenna port to the power meter. Measure the peak power of each channel.

Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

TestMode	CH	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE(GFSK-1M)	CH0	2402	4.35	≤30	4.46	≤36	PASS
	CH19	2440	3.48	≤30	3.59	≤36	PASS
	CH39	2480	3.65	≤30	3.76	≤36	PASS
BLE(GFSK-2M)	CH0	2402	4.34	≤30	4.45	≤36	PASS
	CH19	2440	3.50	≤30	3.61	≤36	PASS
	CH39	2480	3.61	≤30	3.72	≤36	PASS

7.3 MAXIMUM POWER SPECTRAL DENSITY

7.3.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.3.4 Test Procedure

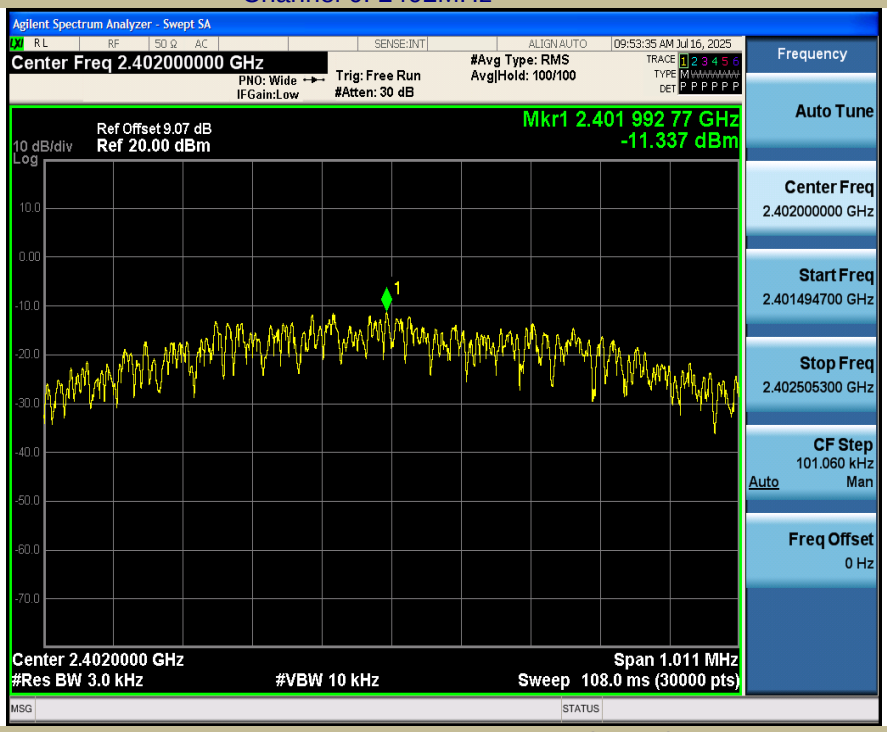
This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance
The transmitter output (antenna port) was connected to the spectrum analyzer
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz
Set the VBW to: 10 kHz.
Set Detector = peak.
Set Sweep time = auto couple.
Set Trace mode = max hold.
Allow trace to fully stabilize.
Use the peak marker function to determine the maximum amplitude level within the RBW.

7.3.5 Test Results

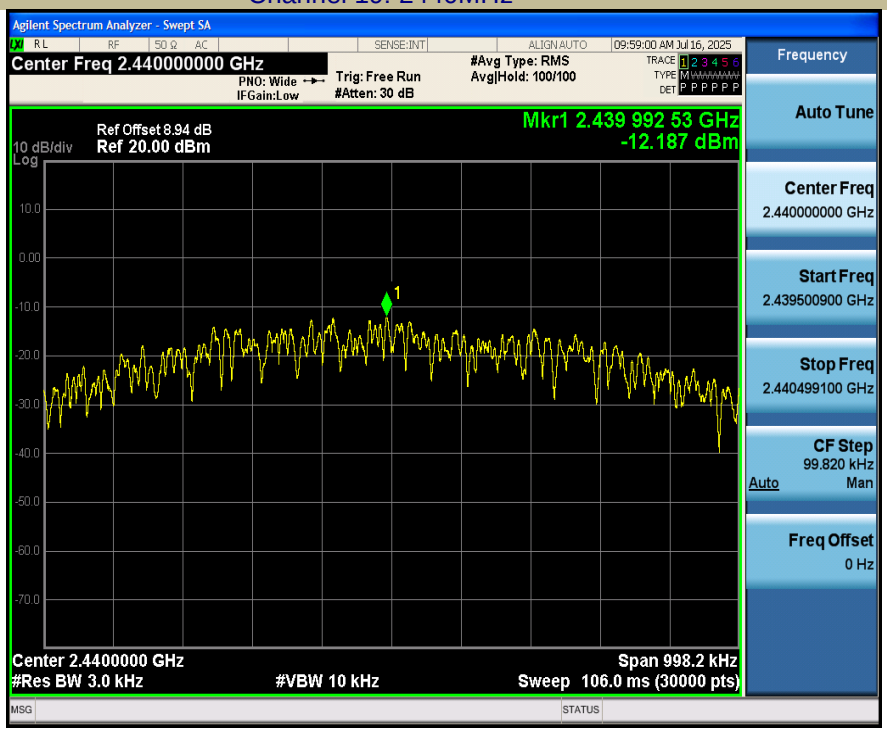
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Test Mode	CH	Power density (dBm/3kHz）	(dBm/3kHz) Limit
GFSK-1M(BLE)	CH0	-11.34	8
	CH19	-12.19	8
	CH39	-11.96	8
GFSK-2M(BLE)	CH0	-13.43	8
	CH19	-14.21	8
	CH39	-13.95	8
Conclusion：PASS			

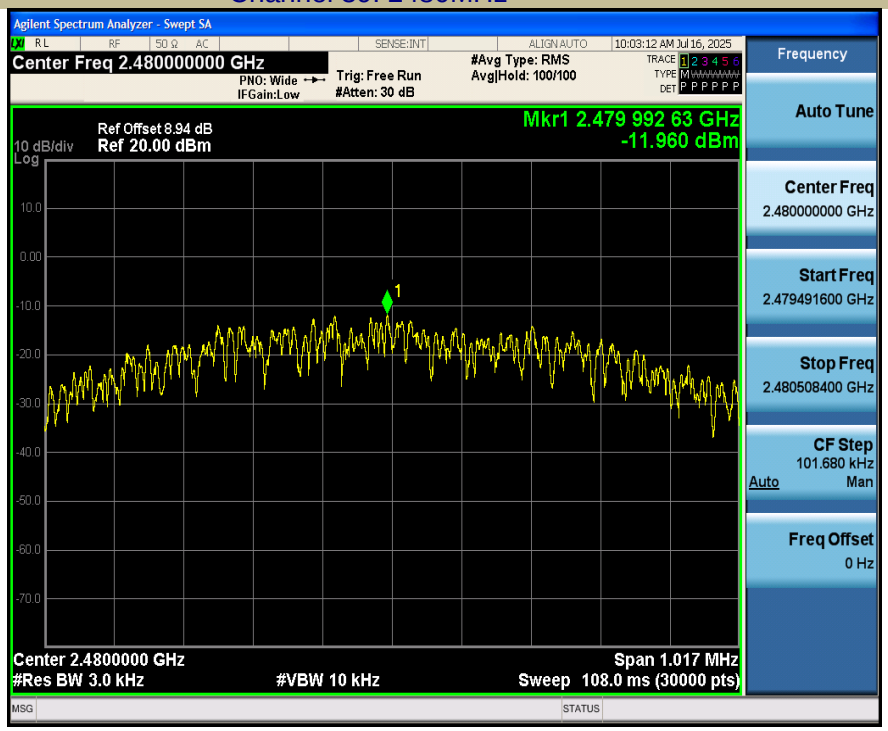
Test Model	Power Spectral Density BLE(GFSK-1M) Channel 0: 2402MHz



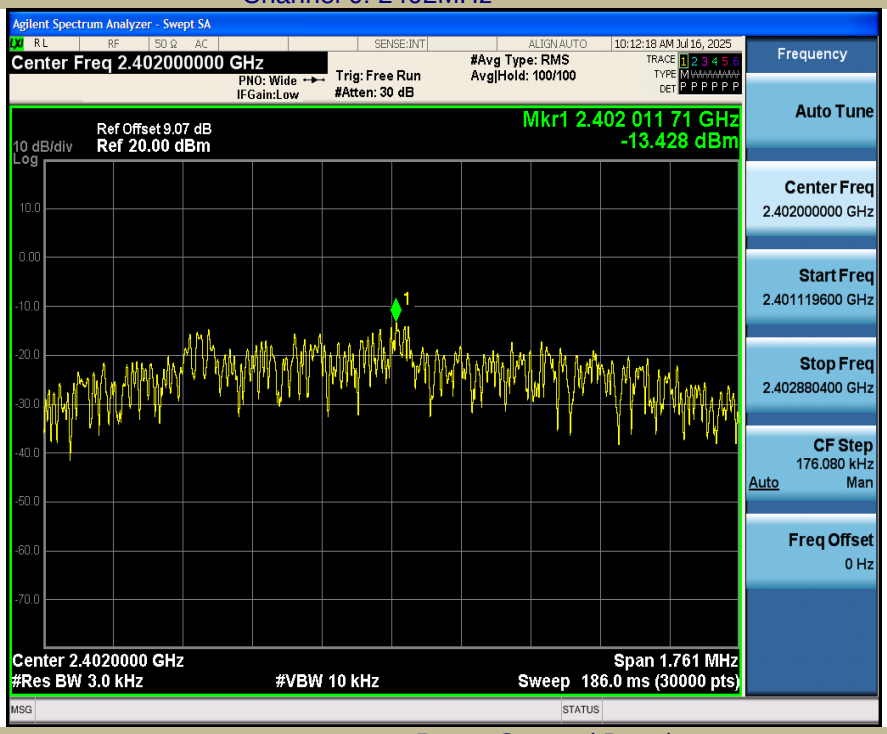
Test Model	Power Spectral Density BLE(GFSK-1M) Channel 19: 2440MHz



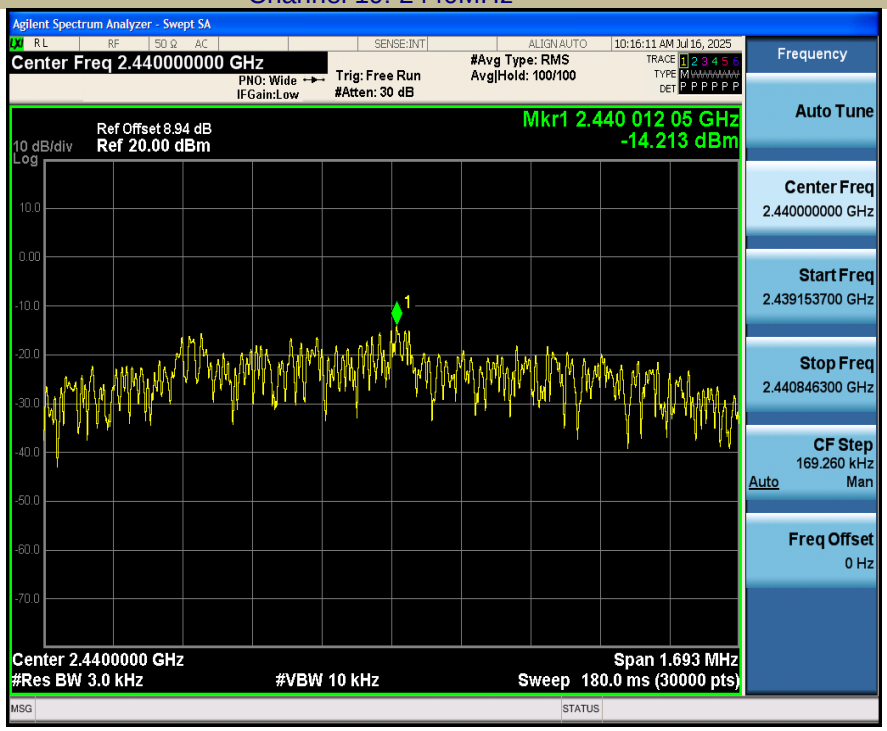
Test Model	Power Spectral Density BLE(GFSK-1M) Channel 39: 2480MHz



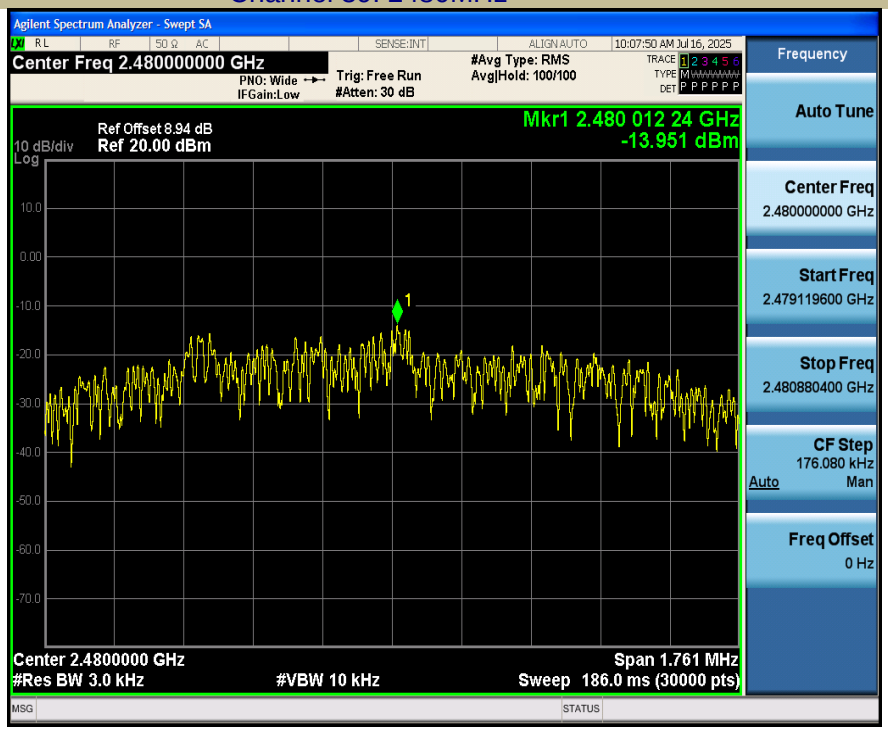
Test Model	Power Spectral Density BLE(GFSK-2M) Channel 0: 2402MHz



Test Model	Power Spectral Density BLE(GFSK-2M) Channel 19: 2440MHz



Test Model	Power Spectral Density BLE(GFSK-2M) Channel 39: 2480MHz



7.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

7.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.4.2 Conformance Limit

According to FCC Part 15.247(d):
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

- **Reference level measurement**

Establish a reference level by using the following procedure:
Set instrument center frequency to DTS channel center frequency.
Set the span to = 1.5 times the DTS bandwidth.
Set the RBW = 100 kHz.
Set the VBW ≥ 3 x RBW.
Set Detector = peak.
Set Sweep time = auto couple.
Set Trace mode = max hold.
Allow trace to fully stabilize.
Use the peak marker function to determine the maximum PSD level.
Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

- **Emission level measurement**

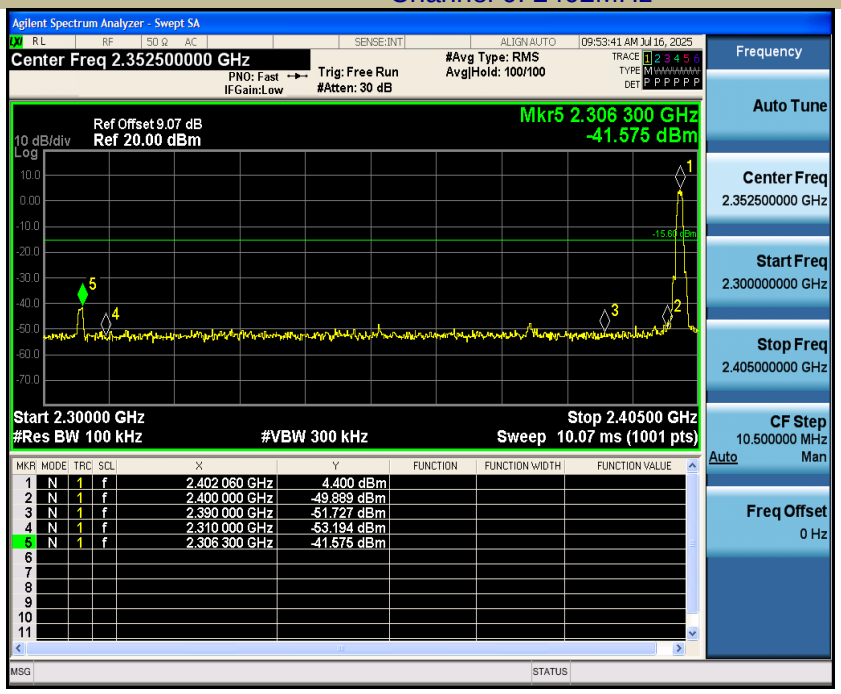
Set the center frequency and span to encompass frequency range to be measured.
Set the RBW = 100 kHz.
Set the VBW =300 kHz.
Set Detector = peak
Sweep time = auto couple.
Trace mode = max hold.
Allow trace to fully stabilize.
Use the peak marker function to determine the maximum amplitude level.
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements .
Report the three highest emissions relative to the limit.

7.4.5 Test Results

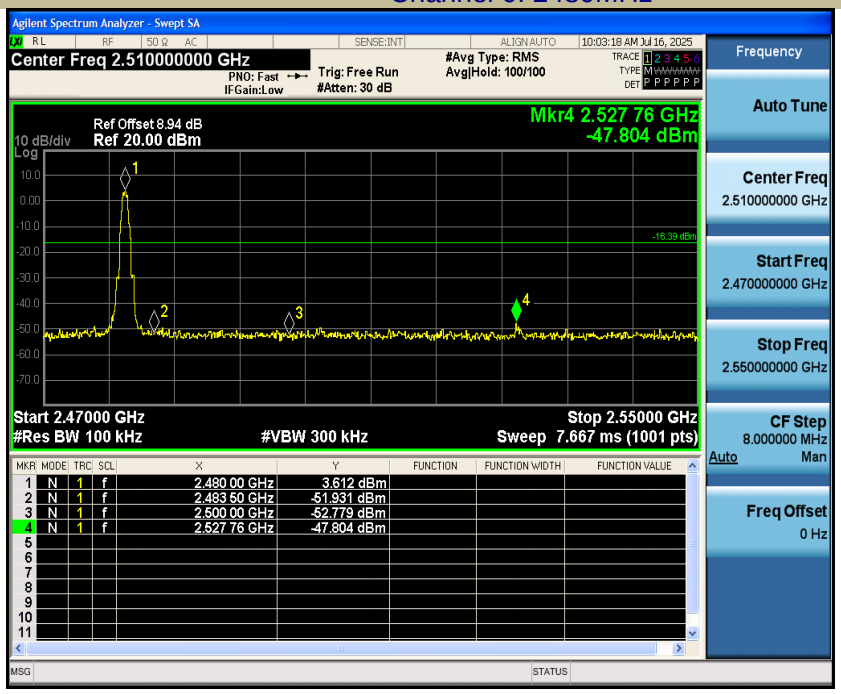
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

TestMode	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
GFSK-1M(BLE)	0	2402	4.40	-41.58	≤-15.6	PASS
	39	2480	3.61	-47.8	≤-16.39	PASS
GFSK-2M(BLE)	0	2402	4.10	-41.77	≤-15.9	PASS
	39	2480	3.40	-48.92	≤-16.6	PASS

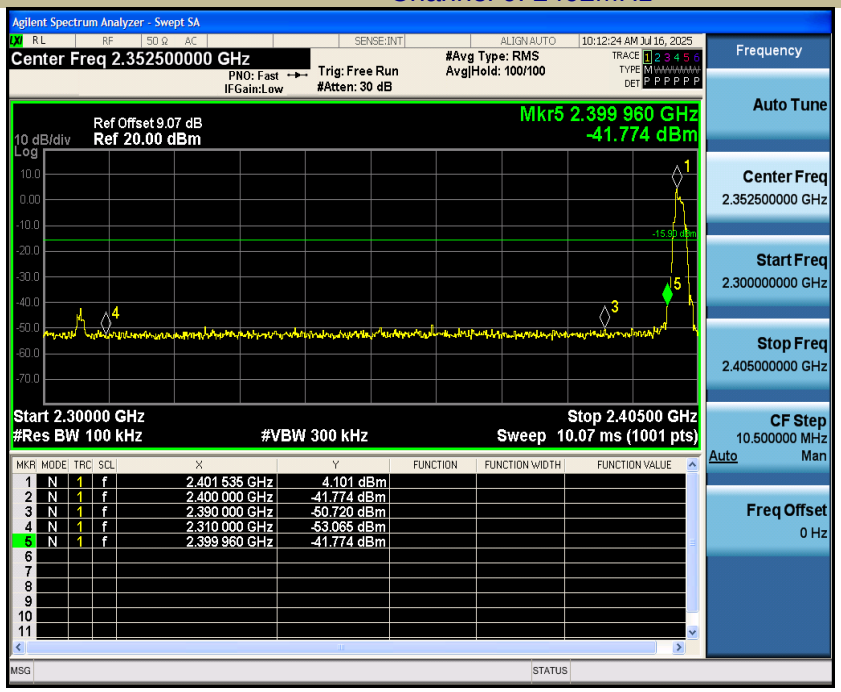
Test Model	Band edge BLE (GFSK-1M) Channel 0: 2402MHz



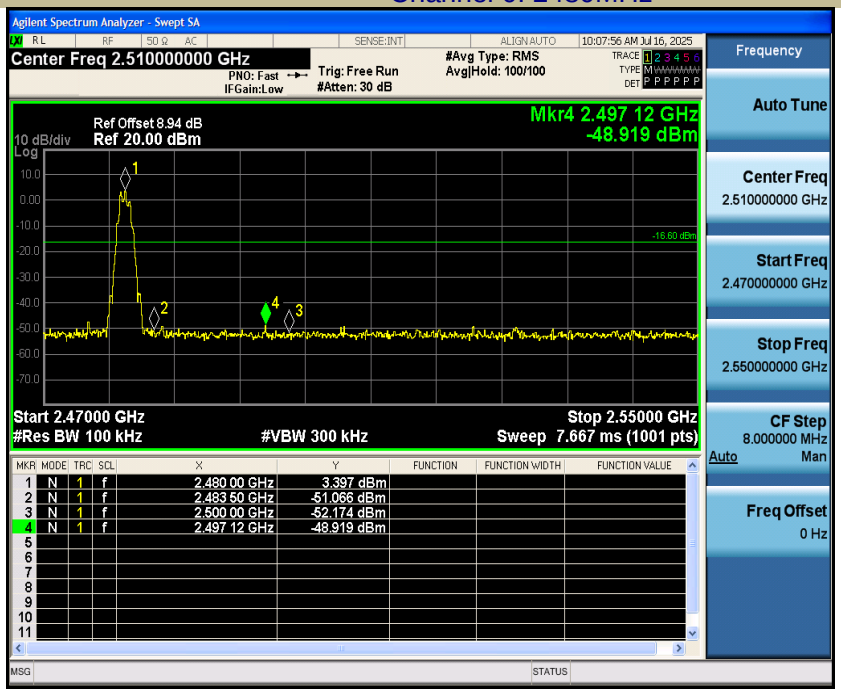
Test Model	Band edge BLE (GFSK-1M) Channel 0: 2480MHz



Test Model	Band edge BLE (GFSK-2M) Channel 0: 2402MHz

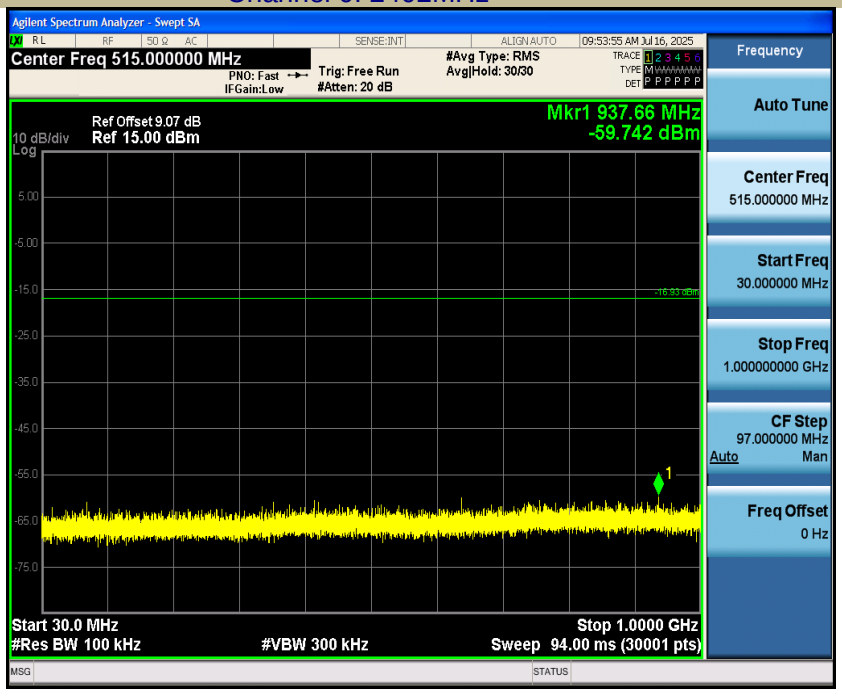


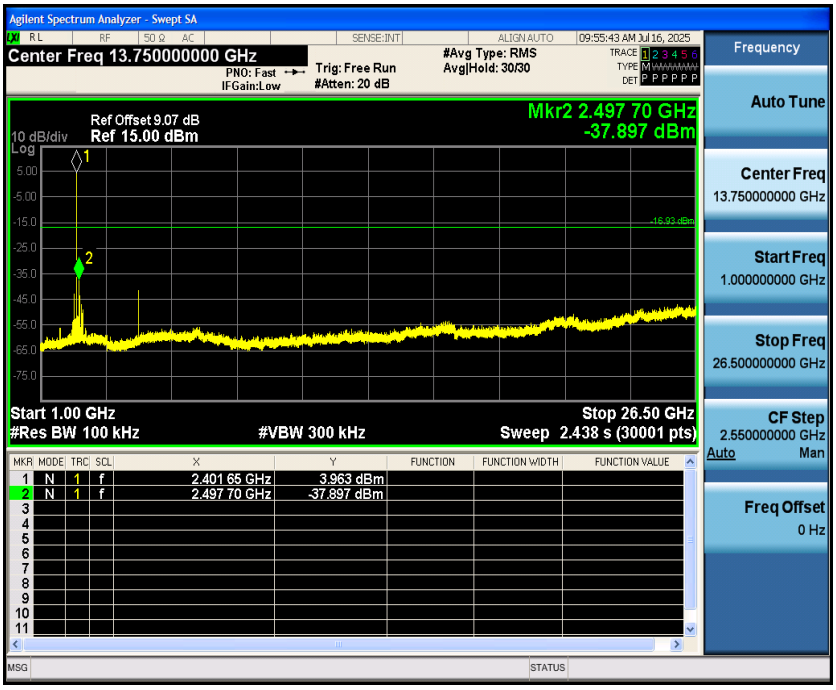
Test Model	Band edge BLE (GFSK-2M) Channel 0: 2480MHz



Test Model	PSD(Power Spectral Density) RBW=100kHz BLE (GFSK-1M) Channel 0: 2402MHz

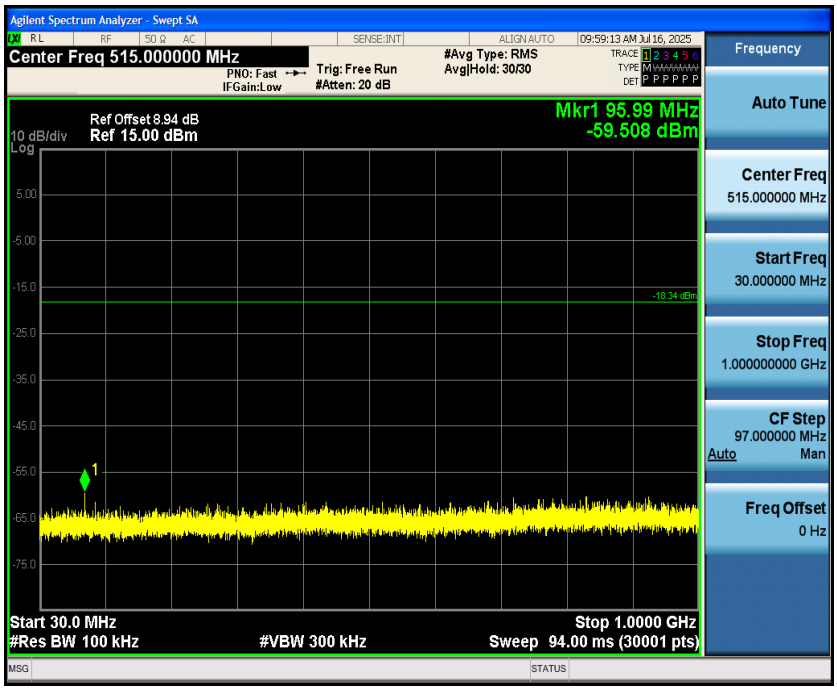
Test Model	Unwanted Emissions in non-restricted frequency bands BLE (GFSK-1M) Channel 0: 2402MHz

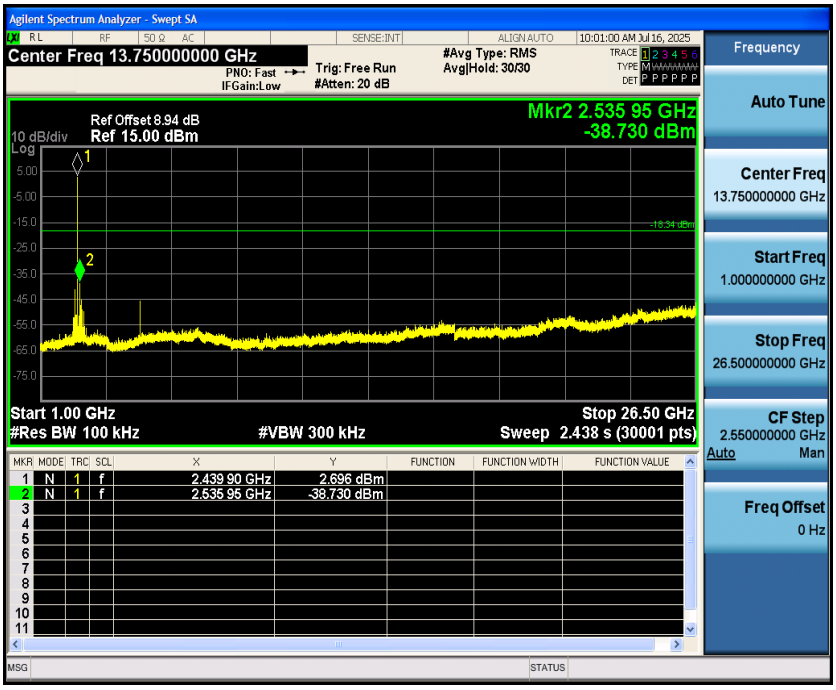



Agilent Spectrum Analyzer - Swept SA
Center Freq 13.750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 30/30
09:55:43 AM Jul 16, 2025
Ref Offset 9.07 dB
10 dB/div
Log
Ref 15.00 dBm
Mkr2 2.497 70 GHz
-37.897 dBm
-16.93 dBm
Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.438 s (30001 pts)
1 N 1 f 2.401 65 GHz 3.963 dBm
2 N 1 f 2.497 70 GHz -37.897 dBm
Frequency
Auto Tune
Center Freq
13.750000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz

Test Model	PSD(Power Spectral Density) RBW=100kHz BLE (GFSK-1M) Channel 19: 2440MHz

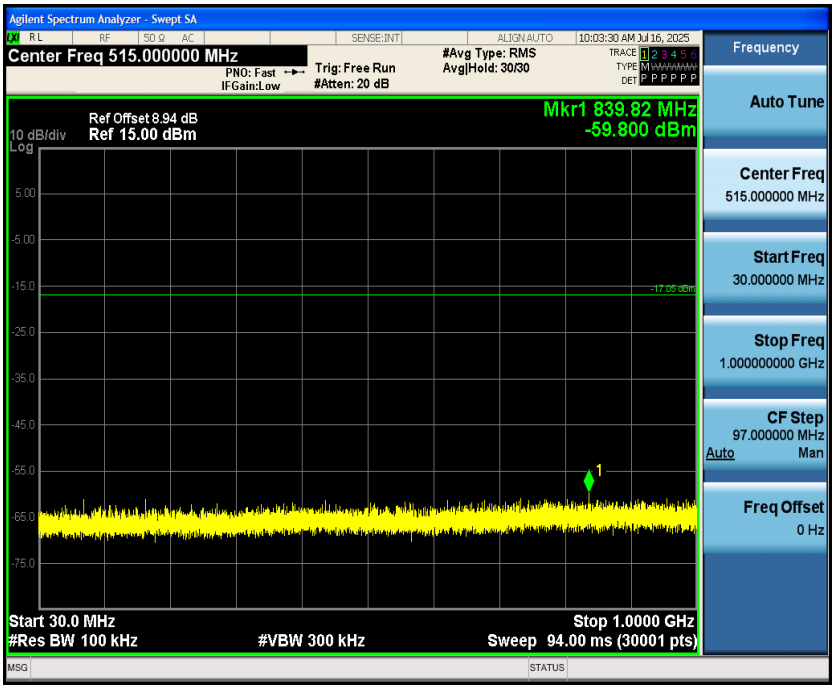
Test Model	Unwanted Emissions in non-restricted frequency bands BLE (GFSK-1M) Channel 19: 2440MHz

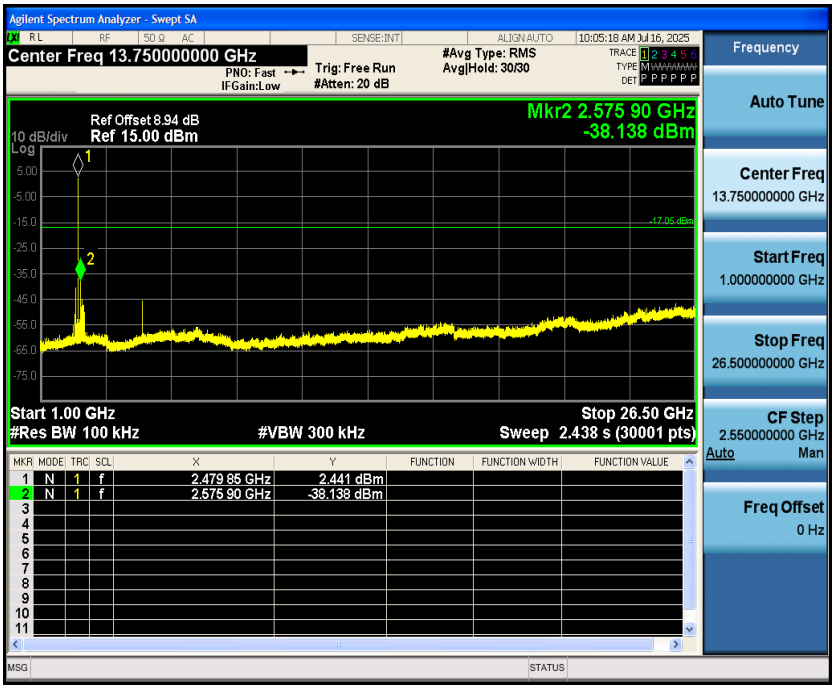



Agilent Spectrum Analyzer - Swept SA
Center Freq 13.750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 30/30
10:01:00 AM Jul 16, 2025
Ref Offset 8.94 dB
10 dB/div
Log
Ref 15.00 dBm
Mkr2 2.535 95 GHz
-38.730 dBm
Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.438 s (30001 pts)
1 N 1 f 2.439 90 GHz 2.696 dBm
2 N 1 f 2.535 95 GHz -38.730 dBm
Frequency
Auto Tune
Center Freq
13.750000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz

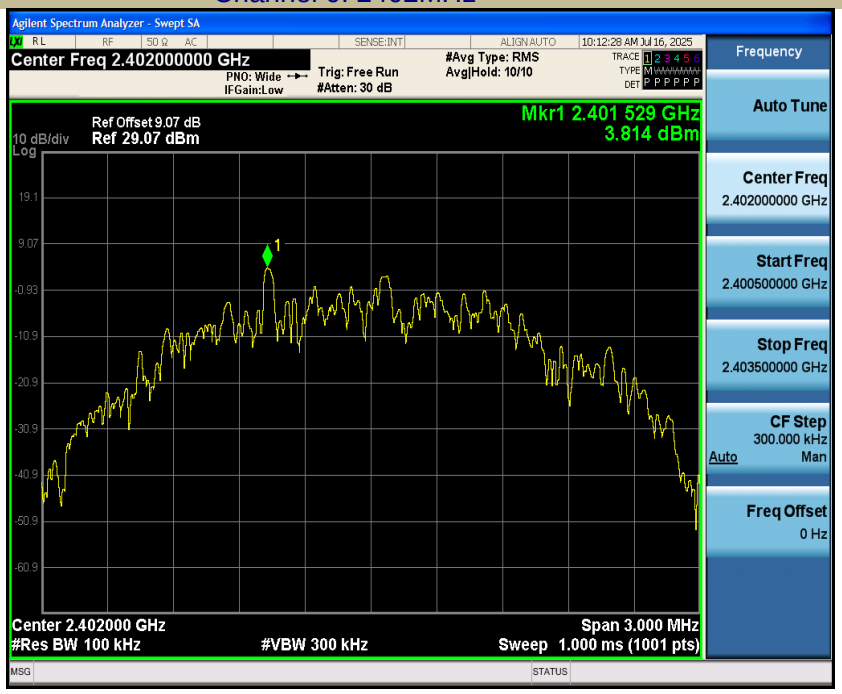
Test Model	PSD(Power Spectral Density) RBW=100kHz BLE (GFSK-1M) Channel 39: 2480MHz

Test Model	Unwanted Emissions in non-restricted frequency bands BLE (GFSK-1M) Channel 39: 2480MHz

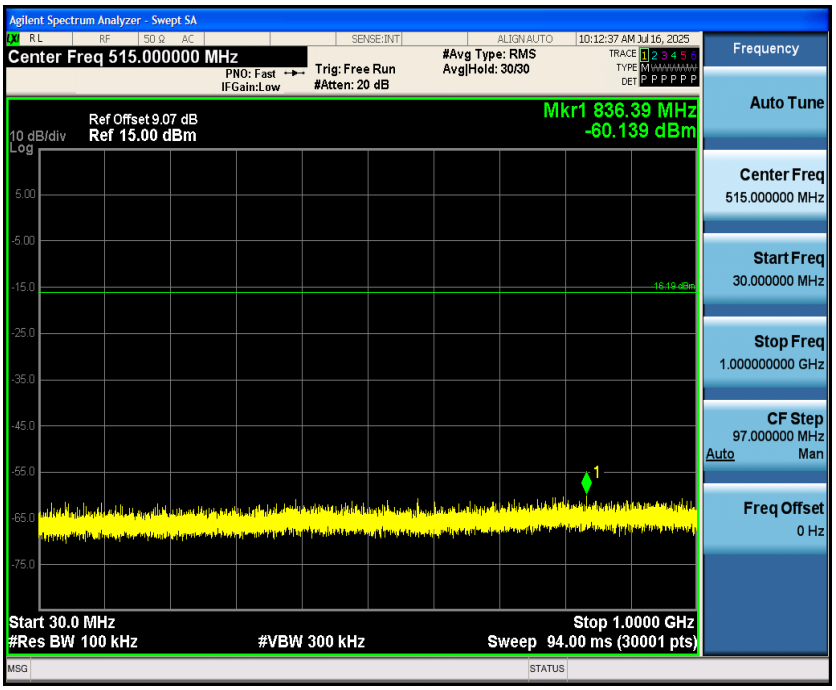


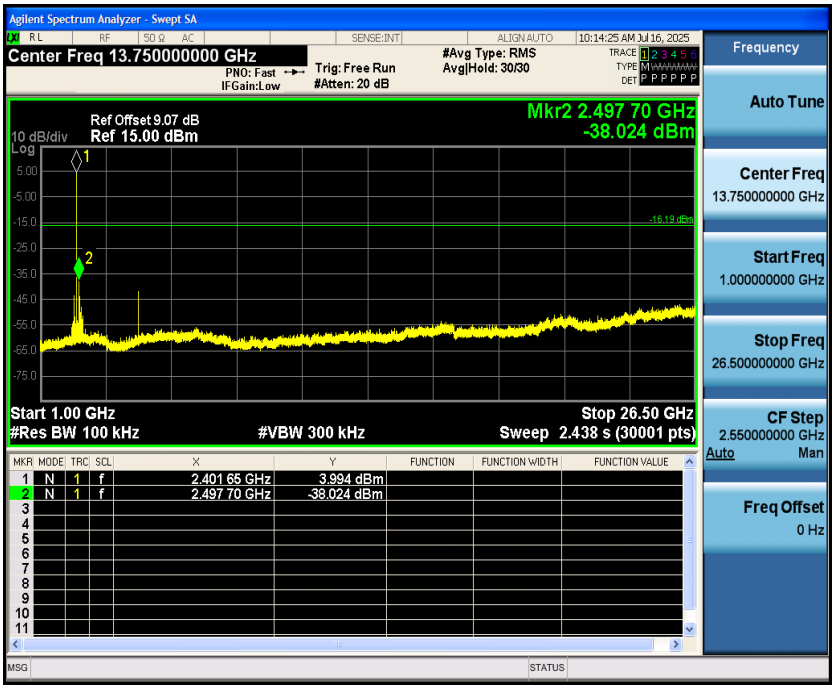

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 30/30
10:05:18 AM Jul 16, 2025
Ref Offset 8.94 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr2 2.575 90 GHz
-38.138 dBm
Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.438 s (30001 pts)
1 N 1 f 2.479 85 GHz 2.441 dBm
2 N 1 f 2.575 90 GHz -38.138 dBm
Frequency
Auto Tune
Center Freq
13.750000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz

Test Model	PSD(Power Spectral Density) RBW=100kHz BLE (GFSK-2M) Channel 0: 2402MHz



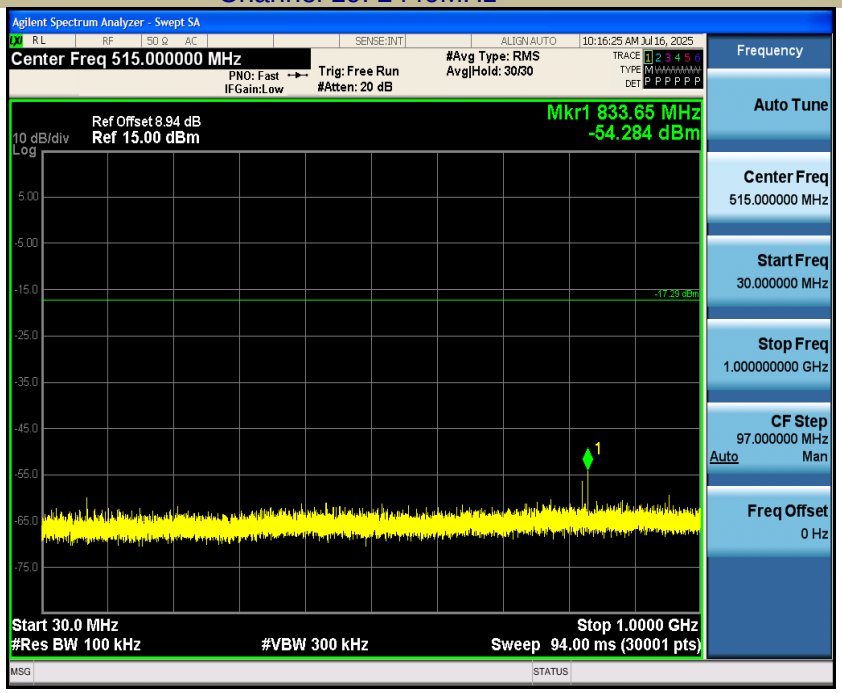
Test Model	Unwanted Emissions in non-restricted frequency bands BLE (GFSK-2M) Channel 0: 2402MHz

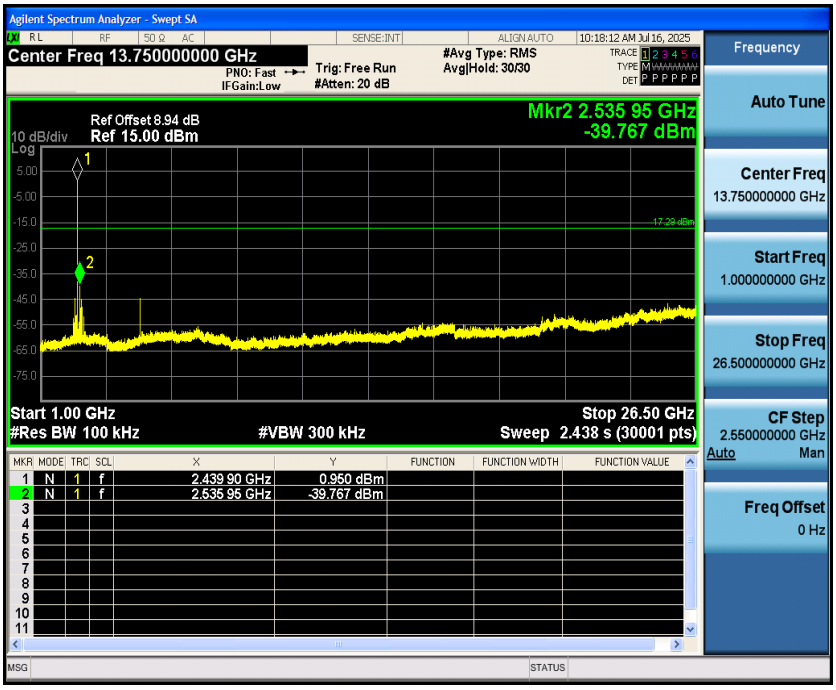



Agilent Spectrum Analyzer - Swept SA
Center Freq 13.750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 30/30
10:14:25 AM Jul 16, 2025
Ref Offset 9.07 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr2 2.497 70 GHz
-38.024 dBm
-15.13 dBm
Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.438 s (30001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.401 65 GHz 3.994 dBm
2 N 1 f 2.497 70 GHz -38.024 dBm
Frequency
Auto Tune
Center Freq
13.750000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

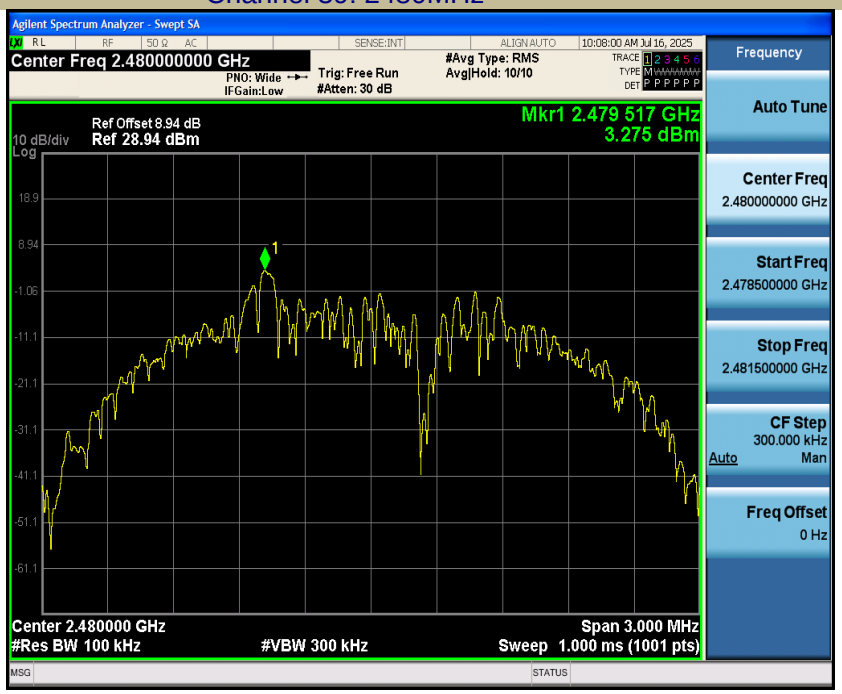
Test Model	PSD(Power Spectral Density) RBW=100kHz BLE (GFSK-2M) Channel 19: 2440MHz

Test Model	Unwanted Emissions in non-restricted frequency bands BLE (GFSK-2M) Channel 19: 2440MHz

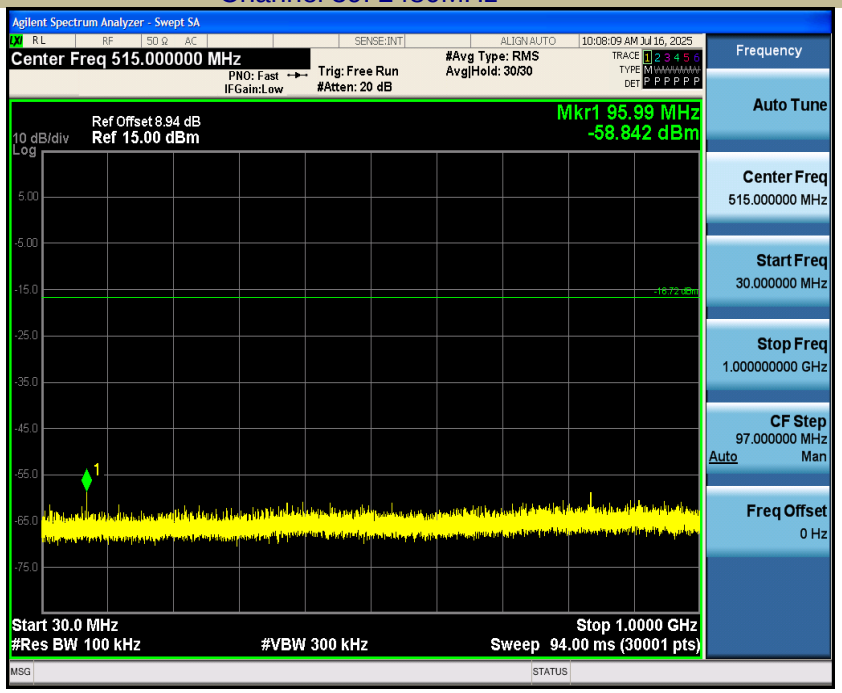


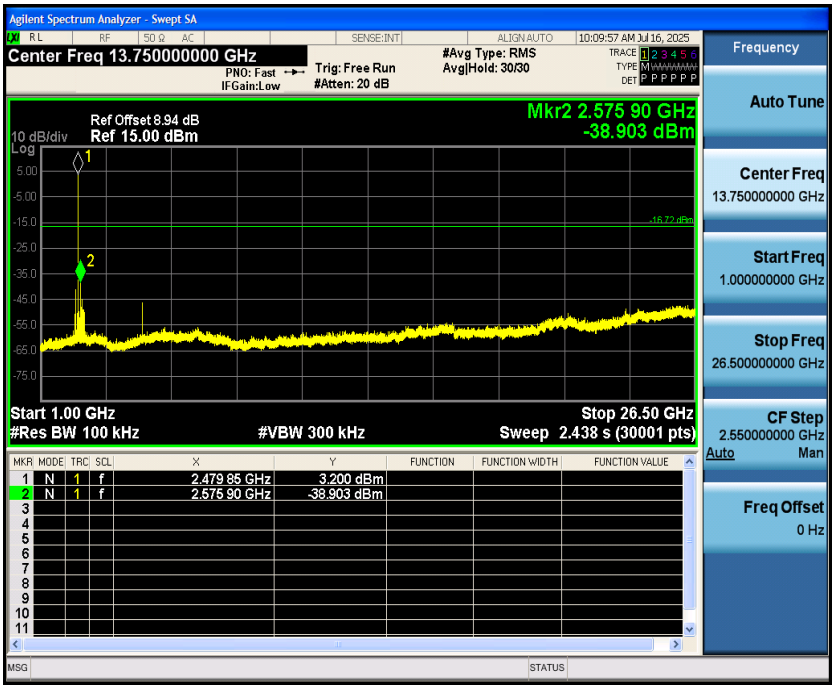

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 30/30
10:18:12 AM Jul 16, 2025
Ref Offset 8.94 dB
10 dB/div
Log
Ref 15.00 dBm
Mkr2 2.535 95 GHz
-39.767 dBm
Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.438 s (30001 pts)
1 N 1 f 2.439 90 GHz 0.950 dBm
2 N 1 f 2.535 95 GHz -39.767 dBm
Frequency
Auto Tune
Center Freq
13.750000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz

Test Model	PSD(Power Spectral Density) RBW=100kHz BLE (GFSK-2M) Channel 39: 2480MHz



Test Model	Unwanted Emissions in non-restricted frequency bands BLE (GFSK-2M) Channel 39: 2480MHz




Agilent Spectrum Analyzer - Swept SA
Center Freq 13.750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 30/30
10:09:57 AM Jul 16, 2025
Ref Offset 8.94 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr2 2.575 90 GHz
-38.903 dBm
Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.438 s (30001 pts)
1 N 1 f 2.479 85 GHz 3.200 dBm
2 N 1 f 2.575 90 GHz -38.903 dBm
Frequency
Auto Tune
Center Freq
13.750000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz

7.5 RADIATED SPURIOUS EMISSION

7.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

7.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	2400/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

7.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

7.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:
The EUT was placed on a turn table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1 GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz)
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT,

measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.
Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.
Repeat above procedures until all frequency measured was complete.

7.5.5 Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

- Spurious Emission below 30MHz (9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m) PK	Emission Level(dBuV/m) AV	Limit 3m(dBuV/m) PK	Limit 3m(dBuV/m) AV	Over(dB) PK	Over(dB) AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz (1GHz to 25GHz)
BLE mode have been tested, and the worst result was report as below:

Test mode: BLE(GFSK-1M) Frequency: Channel 0: 2402MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
3414	46.01	-3.56	42.45	74	-31.55	peak	V
5658	41.6	-1.14	40.46	74	-33.54	peak	V
7137	40.09	2.74	42.83	74	-31.17	peak	V
3431	33.25	-3.53	29.72	54	-24.28	AVG	V
5692	31.11	-1.02	30.09	54	-23.91	AVG	V
7103	29.89	2.74	32.63	54	-21.37	AVG	V
3414	46.01	-3.56	42.45	74	-31.55	peak	H
5726	41.39	-0.92	40.47	74	-33.53	peak	H
7120	41.11	2.74	43.85	74	-30.15	peak	H
3431	33.25	-3.53	29.72	54	-24.28	AVG	H
5743	30.15	-0.86	29.29	54	-24.71	AVG	H
7103	29.89	2.74	32.63	54	-21.37	AVG	H

Test mode: BLE(GFSK-1M) Frequency: Channel 19: 2440MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
3414	55.49	-3.56	51.93	74	-22.07	peak	V
5675	41.26	-1.08	40.18	74	-33.82	peak	V
7086	41.16	2.76	43.92	74	-30.08	peak	V
3431	39.23	-3.53	35.7	54	-18.3	AVG	V
5743	30.06	-0.86	29.2	54	-24.8	AVG	V
7103	30.13	2.74	32.87	54	-21.13	AVG	V
3414	48.31	-3.56	44.75	74	-29.25	peak	H
4961	41.99	-3.39	38.6	74	-35.4	peak	H
7086	40.5	2.76	43.26	74	-30.74	peak	H
3431	33.43	-3.53	29.9	54	-24.1	AVG	H
4961	30.91	-3.39	27.52	54	-26.48	AVG	H
7103	29.93	2.74	32.67	54	-21.33	AVG	H

Test mode: BLE(GFSK-1M) Frequency: Channel 39: 2480MHz

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
7137	40.75	2.74	43.49	74	-30.51	peak	V
9279	42.43	4.15	46.58	74	-27.42	peak	V
5828	49.98	-0.58	49.4	74	-24.6	peak	V
5845	34.91	-0.52	34.39	54	-19.61	AVG	V
7103	29.93	2.74	32.67	54	-21.33	AVG	V
9364	31.25	4.18	35.43	54	-18.57	AVG	V
3414	56.42	-3.56	52.86	74	-21.14	peak	H
5216	47.32	-2.66	44.66	74	-29.34	peak	H
7103	41.24	2.74	43.98	74	-30.02	peak	H
3431	40.61	-3.53	37.08	54	-16.92	AVG	H
5233	36.98	-2.61	34.37	54	-19.63	AVG	H
7103	30.01	2.74	32.75	54	-21.25	AVG	H

Remark:

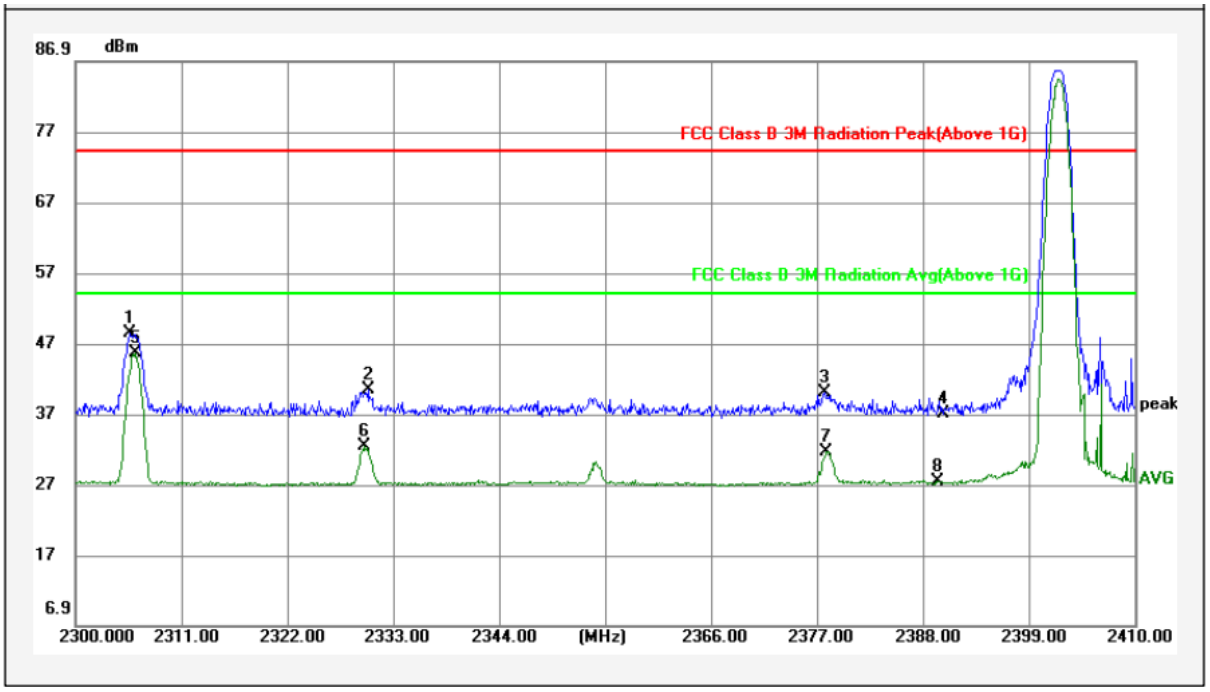
1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

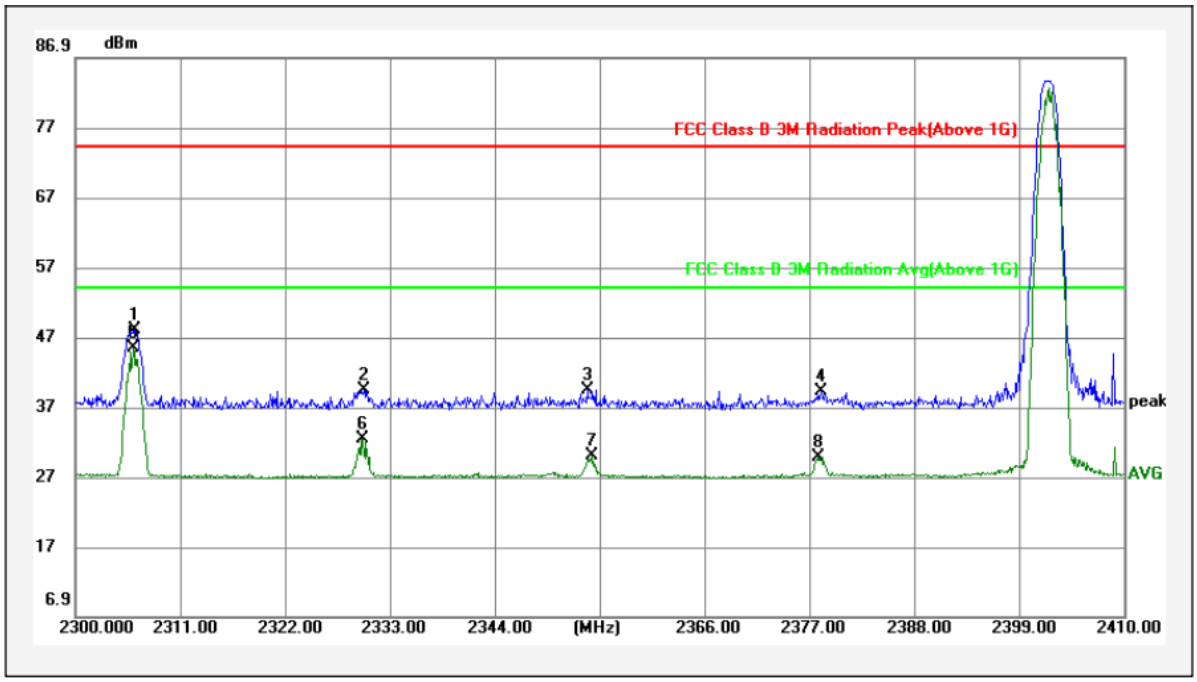
- Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz
  BLE mode have been tested, and the worst result was report as below:

Test mode: BLE (GFSK- 1M)	2402MHz	Test channel:	Lowest	Polarization	Horizontal



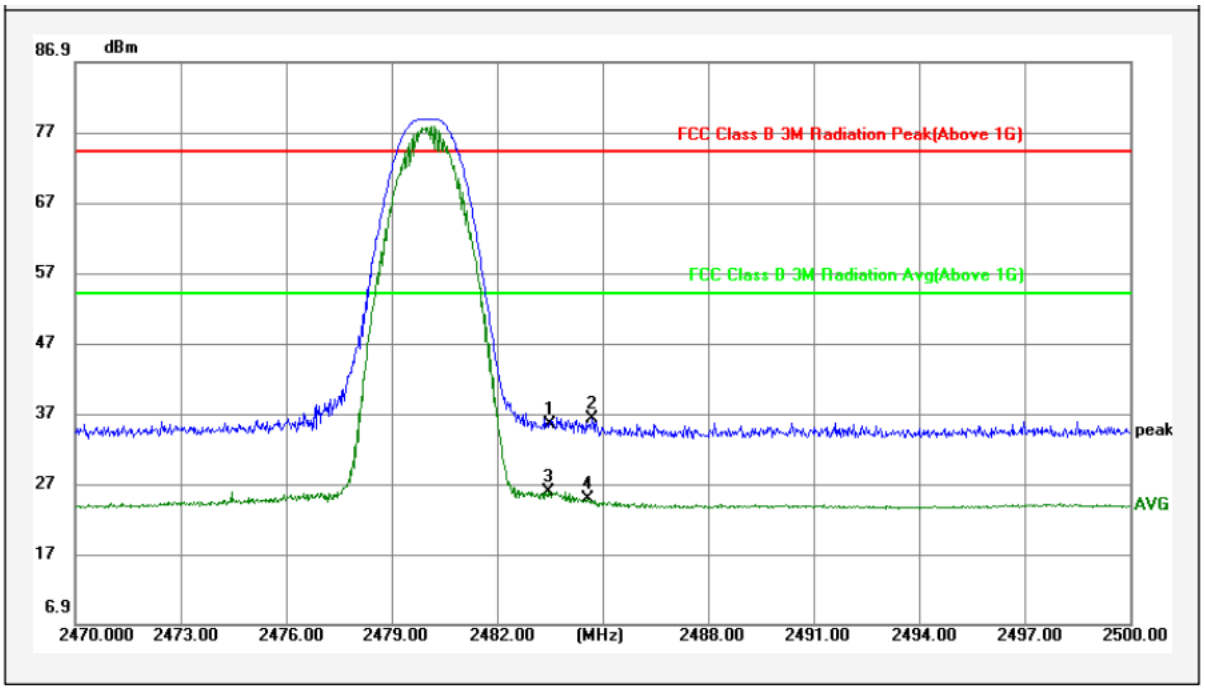
No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2305.610	-6.62	55.02	48.40	74.00	-25.60	peak		
2	2330.360	-6.53	46.85	40.32	74.00	-33.68	peak		
3	2377.770	-6.37	46.47	40.10	74.00	-33.90	peak		
4	2390.000	-6.33	43.42	37.09	74.00	-36.91	peak		
5	2306.160	-6.61	52.12	45.51	54.00	-8.49	AVG	*	
6	2330.030	-6.53	39.01	32.48	54.00	-21.52	AVG		
7	2377.990	-6.37	37.94	31.57	54.00	-22.43	AVG		
8	2389.540	-6.33	33.65	27.32	54.00	-26.68	AVG		

Test mode: BLE (GFSK- 1M)	2402MHz	Test channel:	Lowest	Polarization	Vertical



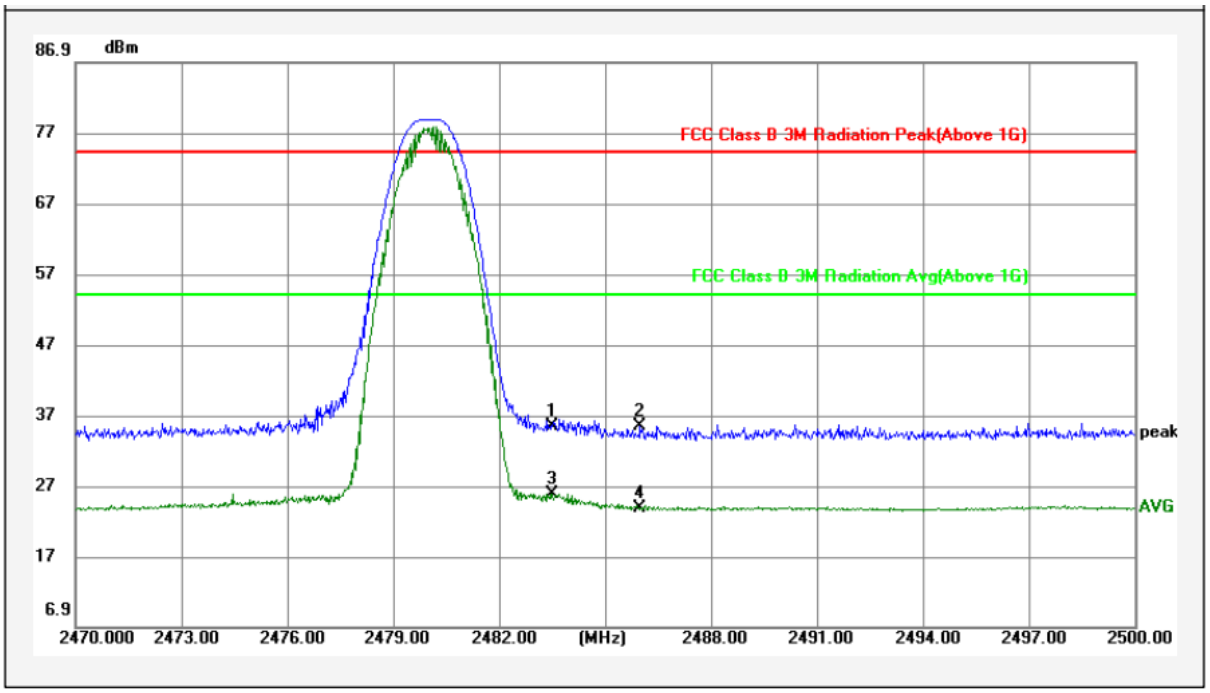
No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2306.160	-6.61	54.66	48.05	74.00	-25.95	peak		
2	2330.250	-6.53	45.96	39.43	74.00	-34.57	peak		
3	2353.680	-6.45	45.86	39.41	74.00	-34.59	peak		
4	2378.210	-6.37	45.64	39.27	74.00	-34.73	peak		
5	2306.050	-6.61	51.97	45.36	54.00	-8.64	AVG	*	
6	2330.140	-6.53	38.97	32.44	54.00	-21.56	AVG		
7	2354.230	-6.45	36.38	29.93	54.00	-24.07	AVG		
8	2377.990	-6.37	36.21	29.84	54.00	-24.16	AVG		

Test mode: BLE (GFSK- 1M)	2480MHz	Test channel:	Highest	Polarization	Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	41.33	35.34	74.00	-38.66	peak		
2	2484.700	-5.99	42.15	36.16	74.00	-37.84	peak		
3	2483.440	-5.99	31.88	25.89	54.00	-28.11	AVG	*	
4	2484.580	-5.99	30.82	24.83	54.00	-29.17	AVG		

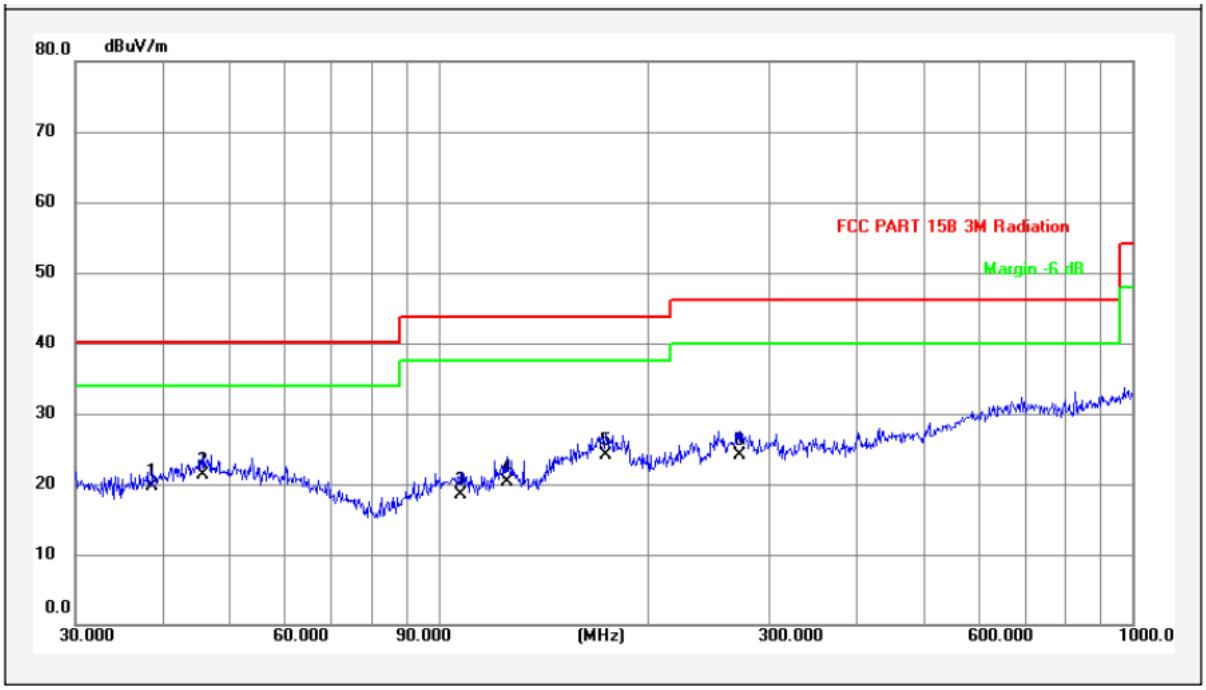
Test mode: BLE (GFSK- 1M)	2480MHz	Test channel:	Highest	Polarization	Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	41.33	35.34	74.00	-38.66	peak		
2	2485.990	-5.99	41.32	35.33	74.00	-38.67	peak		
3	2483.500	-5.99	31.77	25.78	54.00	-28.22	AVG	*	
4	2485.960	-5.99	29.84	23.85	54.00	-30.15	AVG		

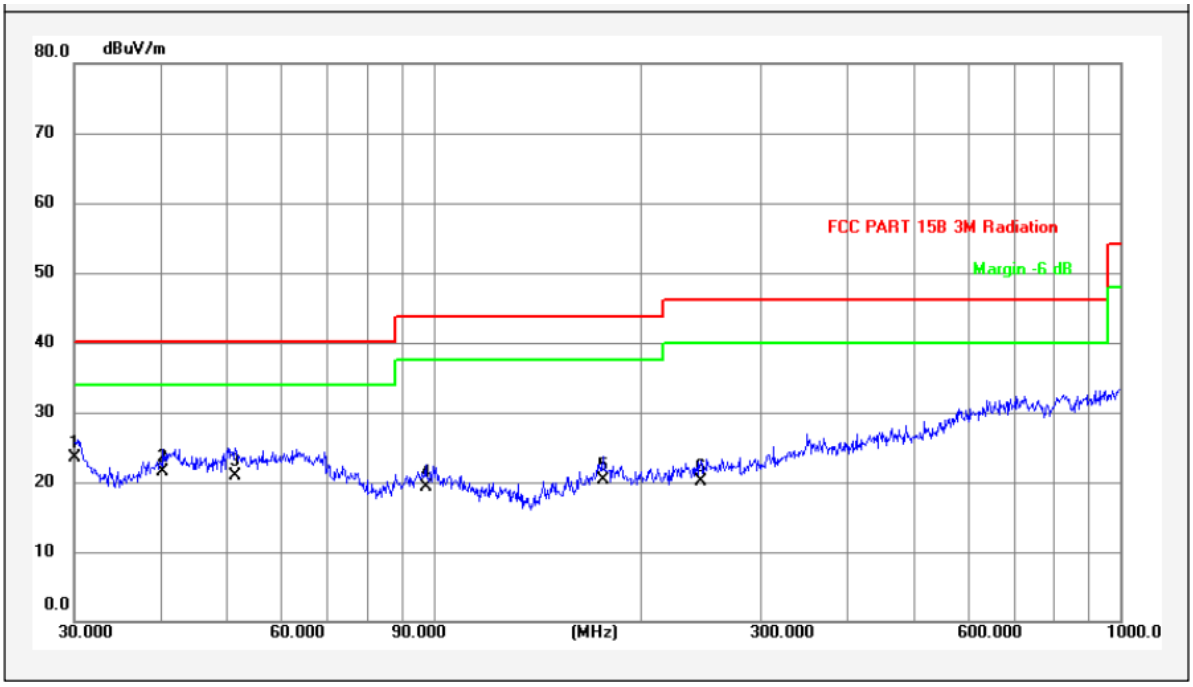
- Spurious Emission below 1GHz (30MHz to 1GHz)
- Only the worst numbers are in the report

Test mode: BLE (GFSK- 1M)	2402MHz	Test channel:	Highest	Polarization	Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	38.7516	12.41	7.39	19.80	40.00	-20.20	QP		
2	45.8551	14.06	7.24	21.30	40.00	-18.70	QP	*	
3	107.8876	11.13	7.37	18.50	43.50	-25.00	QP		
4	125.4457	9.42	10.88	20.30	43.50	-23.20	QP		
5	174.4240	9.83	14.27	24.10	43.50	-19.40	QP		
6	272.2776	12.95	11.25	24.20	46.00	-21.80	QP		

Test mode: BLE (GFSK- 1M)	2402MHz	Test channel:	Highest	Polarization	Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	30.0000	11.49	12.01	23.50	40.00	-16.50	QP	*	
2	40.4170	12.92	8.68	21.60	40.00	-18.40	QP		
3	51.4806	13.58	7.32	20.90	40.00	-19.10	QP		
4	97.4556	11.17	8.23	19.40	43.50	-24.10	QP		
5	176.8875	9.94	10.36	20.30	43.50	-23.20	QP		
6	245.0900	12.22	7.88	20.10	46.00	-25.90	QP		

7.6 CONDUCTED EMISSIONS TEST

7.6.1 Applicable Standard

According to FCC Part 15.207(a)

7.6.2 Conformance Limit

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.6.3 Test Configuration

Test according to clause 6.3conducted emission test setup

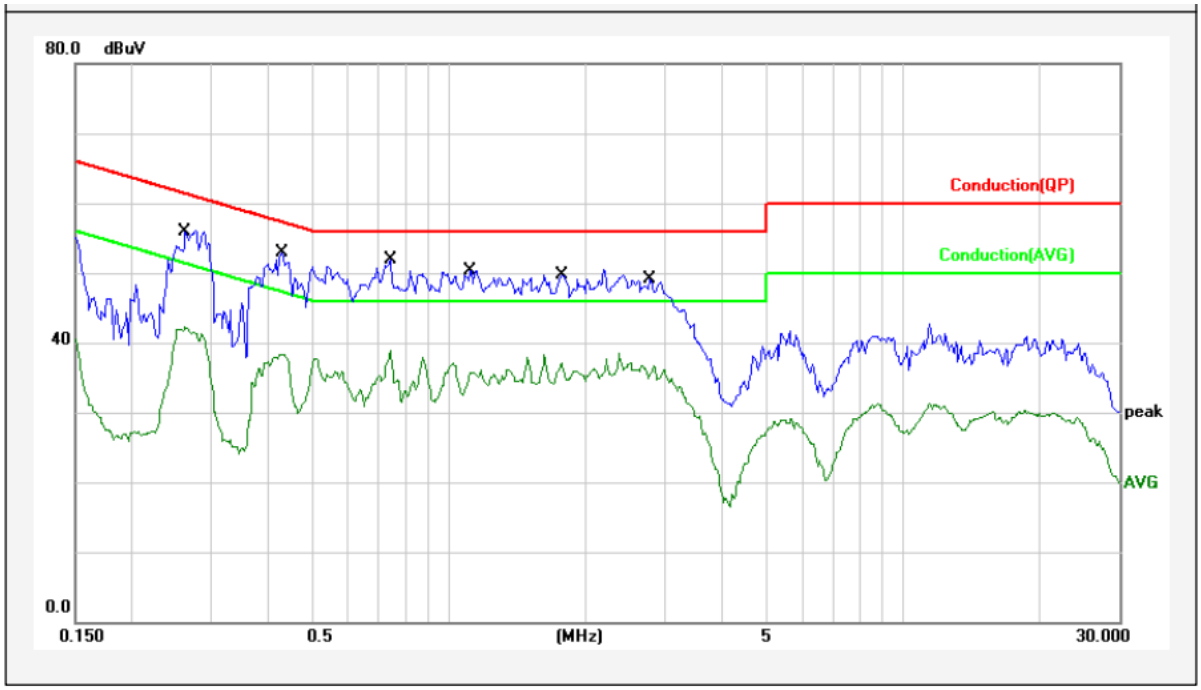
7.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

7.6.5 Test Results

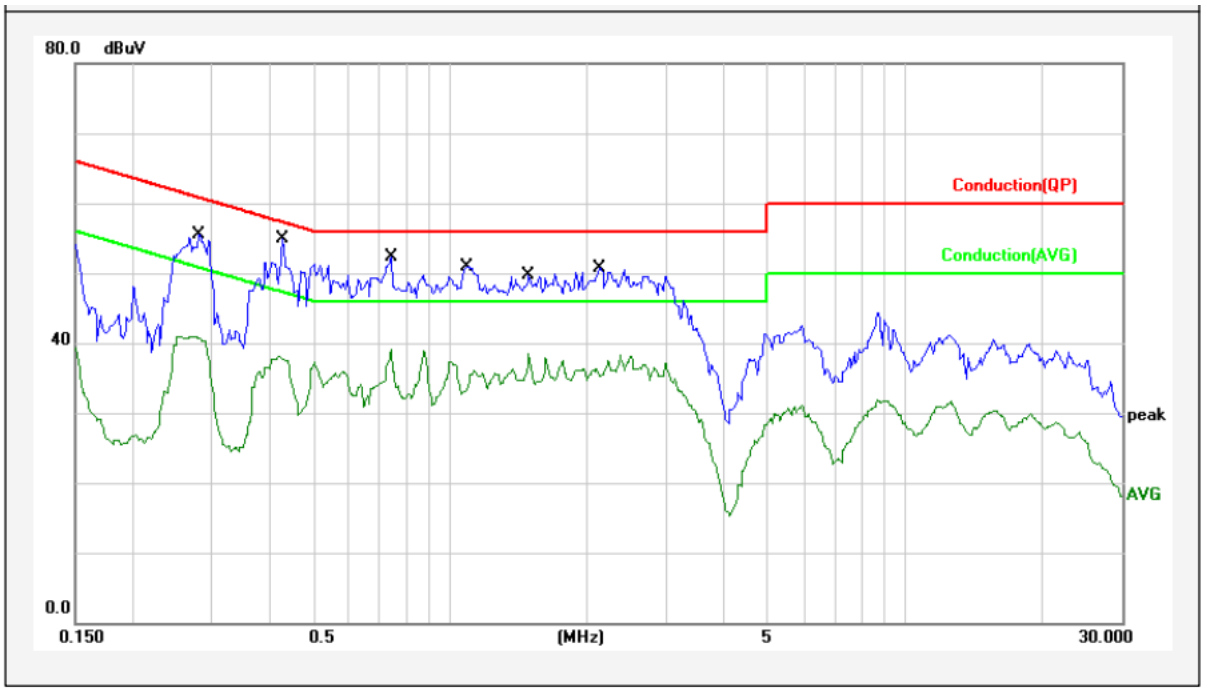
PASS

Test Mode:	Full Load	Test Voltage:	AC 120V/60Hz
Temperature:	20℃	Phase:	L1
Relative Humidity:	54%	Pressure:	101.0KPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2620	10.21	41.96	52.17	61.37	-9.20	QP	P	
2	0.2620	10.21	31.99	42.20	51.37	-9.17	AVG	P	
3	0.4294	10.27	39.58	49.85	57.26	-7.41	QP	P	
4	0.4294	10.27	28.11	38.38	47.26	-8.88	AVG	P	
5	0.7440	10.38	38.39	48.77	56.00	-7.23	QP	P	
6	0.7440	10.38	28.53	38.91	46.00	-7.09	AVG	P	
7	1.1172	10.46	36.90	47.36	56.00	-8.64	QP	P	
8	1.1172	10.46	26.63	37.09	46.00	-8.91	AVG	P	
9	1.7736	10.49	36.03	46.52	56.00	-9.48	QP	P	
10	1.7736	10.49	27.80	38.29	46.00	-7.71	AVG	P	
11	2.7710	10.54	35.64	46.18	56.00	-9.82	QP	P	
12	2.7710	10.54	26.62	37.16	46.00	-8.84	AVG	P	

Test Mode:	Full Load	Test Voltage:	AC 120V/60Hz
Temperature:	20℃	Phase:	Neutral
Relative Humidity:	54%	Pressure:	101.0KPa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2815	10.26	30.72	40.98	50.77	-9.79	AVG	P	
2	0.2815	10.26	41.90	52.16	60.77	-8.61	QP	P	
3	0.4294	10.30	27.73	38.03	47.26	-9.23	AVG	P	
4	0.4294	10.30	36.90	47.20	57.26	-10.06	QP	P	
5	0.7440	10.38	39.38	49.76	56.00	-6.24	QP	P	
6	0.7440	10.38	28.74	39.12	46.00	-6.88	AVG	P	
7	1.0907	10.45	26.90	37.35	46.00	-8.65	AVG	P	
8	1.0907	10.45	36.91	47.36	56.00	-8.64	QP	P	
9	1.4883	10.47	35.61	46.08	56.00	-9.92	QP	P	
10	1.4883	10.47	28.04	38.51	46.00	-7.49	AVG	P	
11	2.1303	10.49	37.03	47.52	56.00	-8.48	QP	P	
12	2.1303	10.49	27.04	37.53	46.00	-8.47	AVG	P	

7.7 ANTENNA APPLICATION

7.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.7.2 Result

PASS.

The EUT has 1 antenna: a FPC Antenna for BLE, the gain is 0.11dBi;

Note: ☒ Antenna use a permanently attached antenna which is not replaceable.
☐ Using the unique antenna connector with external fpc antenna.
☐ Not using a standard antenna jack or electrical connector for antenna replacement
☐ The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

--------- END OF REPORT --------

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