

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Waterproof controller

MODEL NUMBER: HB4, HD4, HA4, HM4

REPORT NUMBER: E04A25041363F00301

ISSUE DATE: September 20, 2025

FCC ID: 2AYCY-HB4

Prepared for

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PEOPLE'S REPUBLIC OF CHINA**

Prepared by

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Dongguan city, Guangdong, People's Republic of China, 523808**

This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products.

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	September 20, 2025	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2020, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2020, Clause 11.9.1.3	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2020, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2020, Clause 11.10.2	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2020, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2020, Clause 11.11 & Clause 11.12	FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2020, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: ZHUHAI LTECH TECHNOLOGY CO., LTD.
Address: 1st Building, No. 183, Shui'an 1st Road, Xiangzhou District,
519060 Zhuhai City, PEOPLE'S REPUBLIC OF CHINA

Manufacturer Information

Company Name: ZHUHAI LTECH TECHNOLOGY CO., LTD.
Address: 1st Building, No. 183, Shui'an 1st Road, Xiangzhou District,
519060 Zhuhai City, PEOPLE'S REPUBLIC OF CHINA

EUT Information

Product Description: Waterproof controller
Model: HB4
Brand: HD4, HA4, HM4
Sample Received Date: August 28, 2025
Sample Status: Normal
Sample ID: A25041363 003
Date of Tested: August 28, 2025 to September 20, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass

Prepared By:

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Shawn Wen

Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
DTS Bandwidth	1.96	±9.2 PPM
20dB Emission Bandwidth	1.96	±9.2 PPM
Carrier Frequency Separation	1.96	±9.2 PPM
Time of Occupancy	1.96	±0.57%
Conducted Output Power	1.96	±1.5 dB
Power Spectral Density Level	1.96	±1.9 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Waterproof controller
Model		HB4
Series Model		HD4, HA4, HM4
Model Difference		All models are the same, only the model names are different.
Hardware Version		V0
Software Version		V0
Ratings		Input: 100-240V~ 50/60Hz Output: Voltage: 4*(100-240V ---) Current: 4*1.6A
Power Supply	AC	120V/60Hz

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth V5.2
Bluetooth Mode:	Bluetooth LE/2LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Maximum Peak Power:	0.88dBm
Antenna Type:	Internal Antenna
Antenna Gain:	2.11dBi
Normal Test Voltage:	AC 120V/60Hz
EUT Test software:	ncp_commander
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

5.2. CHANNEL LIST

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

9	2420	20	2442	31	2464	/	/
10	2422	21	2444	32	2468	/	/

5.3. MAXIMUM CONDUCTED OUTPUT POWER

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)
GFSK(1Mbps)	2402 ~ 2480	0-39[40]	0.87
GFSK(2Mbps)	2402 ~ 2480	0-39[40]	0.88

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK(1Mbps)	CH 0(Low Channel), CH 19(MID Channel), CH 39(High Channel)	2402 MHz, 2440 MHz, 2480 MHz
GFSK(2Mbps)	CH 0(Low Channel), CH 19(MID Channel), CH 39(High Channel)	2402 MHz, 2440 MHz, 2480 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software Version		ncp_commander		
Modulation Type	Transmit Antenna Number	Test Software setting value		
		CH 0	CH 19	CH 39
GFSK(1Mbps)	1	1	1	1
GFSK(2Mbps)	1	1	1	1

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	Internal Antenna	2.11

Test Mode	Transmit and Receive Mode	Description
GFSK(1Mbps)	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
GFSK(2Mbps)	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

5.7. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	PC	Lenovo	B4650-D002	M90601U3	GTG Support

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Length
C-1	USB cable	Shielded	without ferrite	0.33 m

5.8. SETUP DIAGRAM



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2025/8/23	2026/8/22
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2025/8/23	2026/8/22
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2025/8/23	2026/8/22
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2025/8/23	2026/8/22
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2025/8/23	2026/8/22
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2025/8/23	2026/8/22
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2025/8/23	2026/8/22
temperature humidity chamber	Espec	SH-241	SH-241-2014	2025/8/23	2026/8/22
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2025/8/23	2026/8/22
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2025/8/23	2026/8/22
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2025/8/23	2026/8/22
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2025/8/23	2026/8/22
Biconilog Antenna	ETS	3142E	00243651	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	00243668	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2025/8/23	2026/8/22
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2025/8/23	2026/8/22
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2025/8/23	2026/8/22
Pre-Amplifier	HzEMC	HPA-1G1850	HYP A21003	2025/8/23	2026/8/22
Horn antenna	ETS	3117	00246069	2025/02/22	2028/02/21
Pre-Amplifier	HzEMC	HPA-184057	HYP A21004	2025/8/23	2026/8/22

Horn antenna	ETS	3116C	00246265	2025/02/22	2028/02/21
RF Filter Bank	HzEMC	HSW-F18	HSWF2218E01	2025/8/23	2026/8/22
RF Filter Bank	HzEMC	HPF18	HPF2218E02	2025/8/23	2026/8/22
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2025/8/23	2026/8/22
LISN/AMN	Rohde & Schwarz	ENV216	102843	2025/8/23	2026/8/22
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2025/8/23	2026/8/22
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

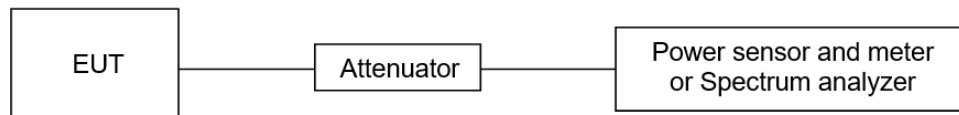
CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.3°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.2. 6DB BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5

TEST PROCEDURE

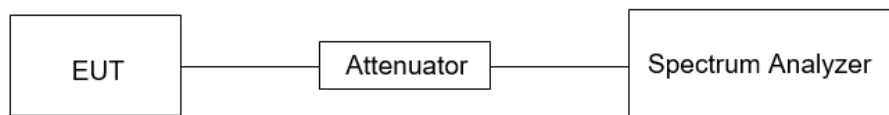
Refer to ANSI C63.10-2020 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

a) Allow the trace to stabilize and 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.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.3°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.10.

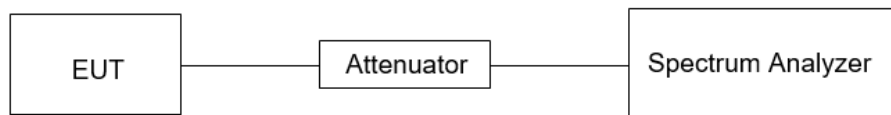
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.3°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

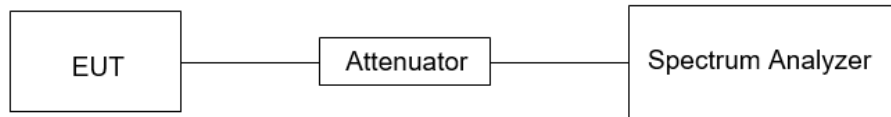
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.3°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.5. DUTY CYCLE

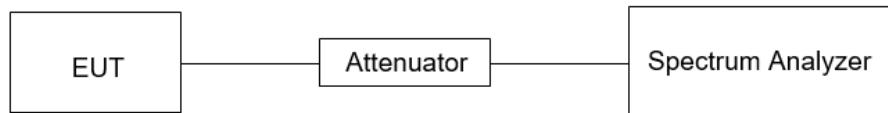
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.3°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix A

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	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	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	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			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

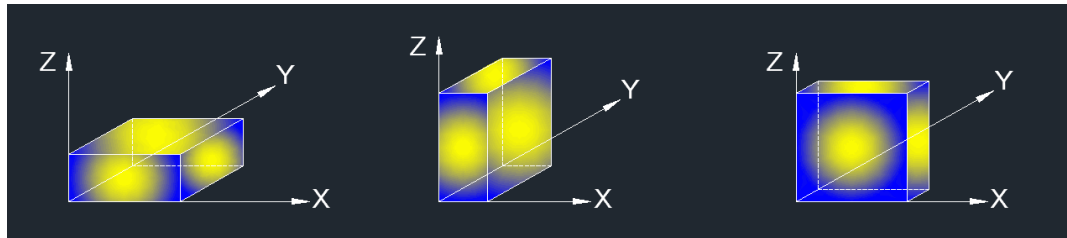
Above 1G

The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

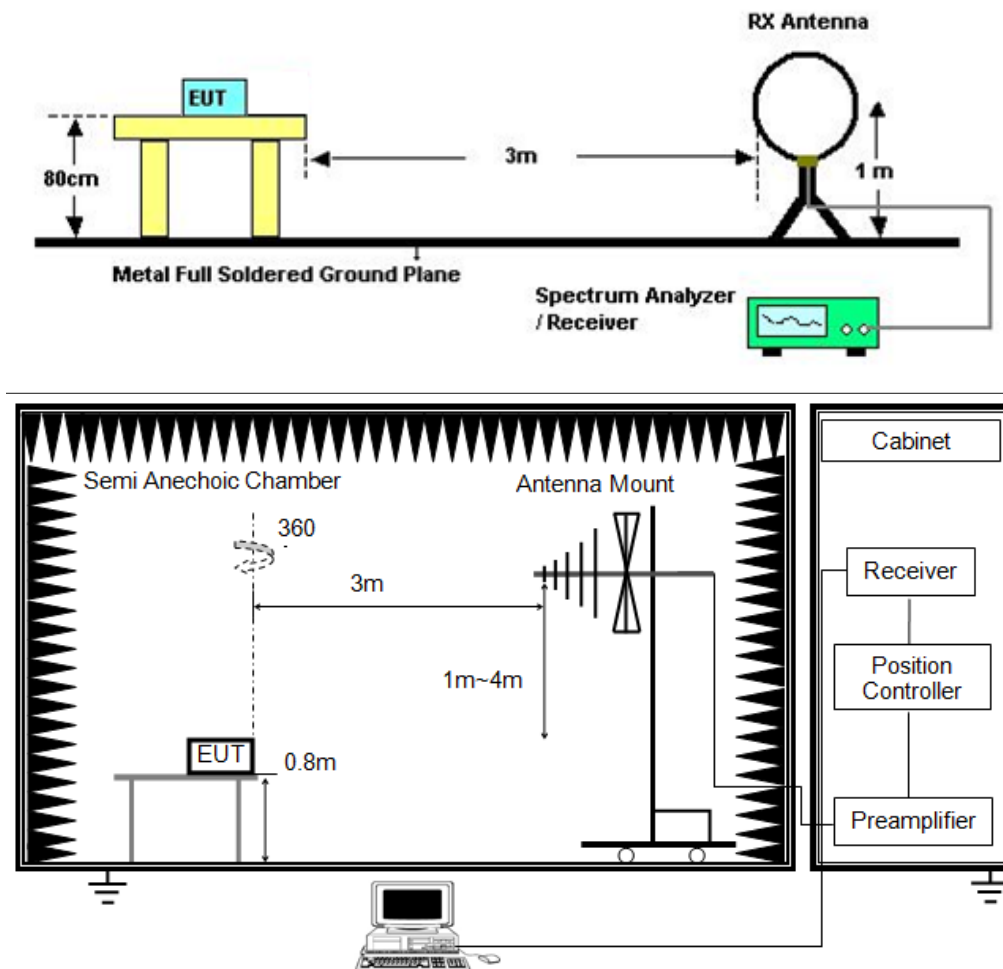
1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

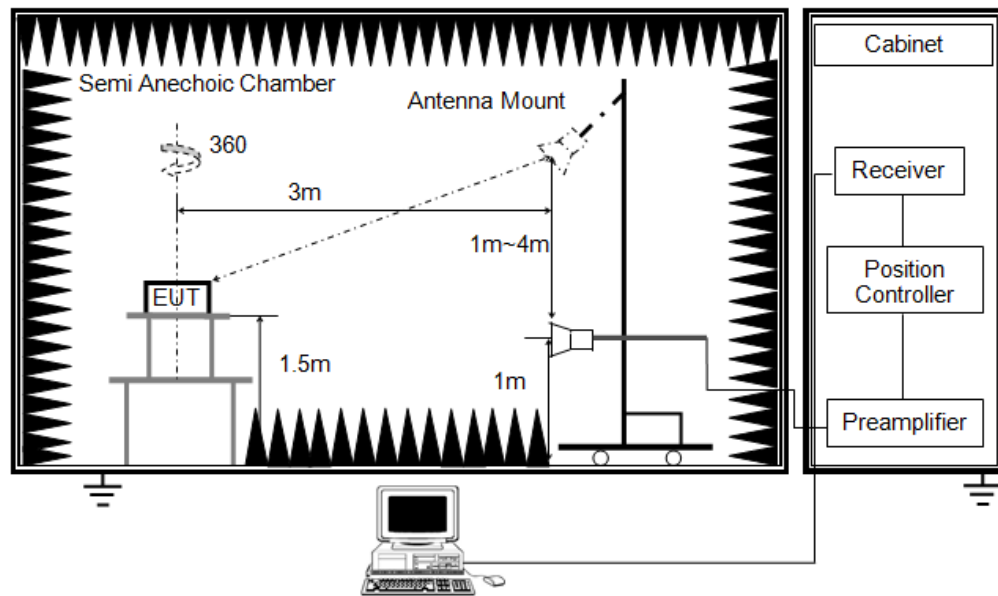
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP



**TEST ENVIRONMENT**

Temperature	24.1°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

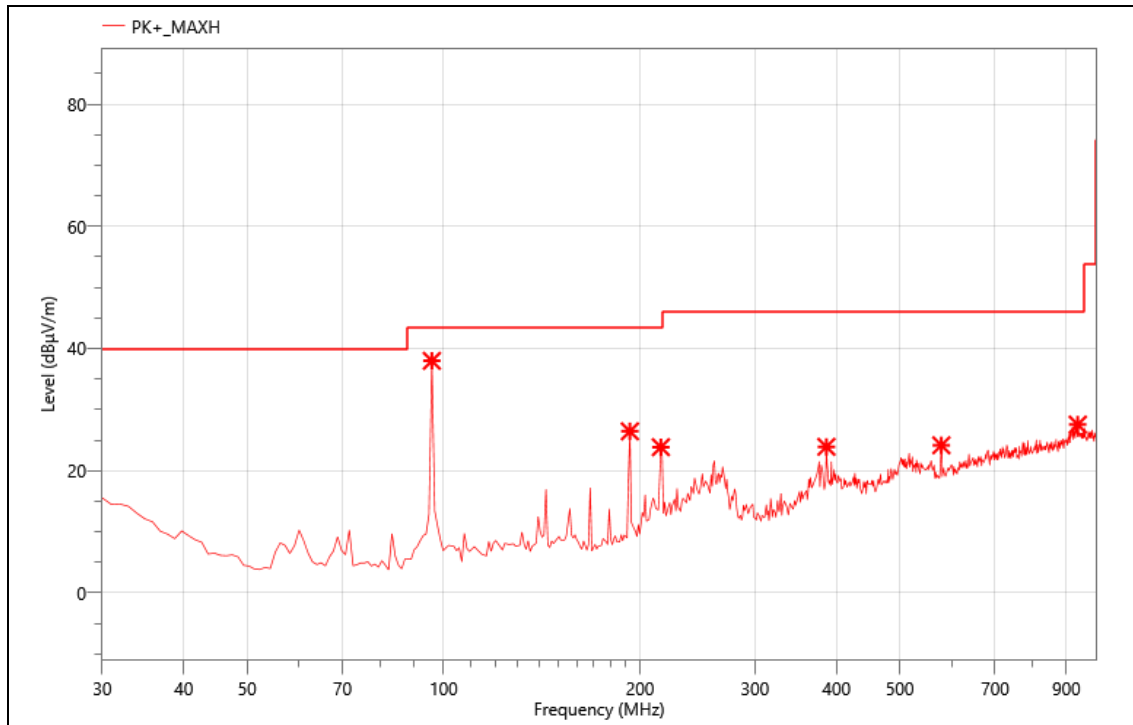
TEST RESULTS

8.1. RADIATED BAND EDGE AND SPURIOUS EMISSION

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

All modes have been tested and the worst result as bellow:

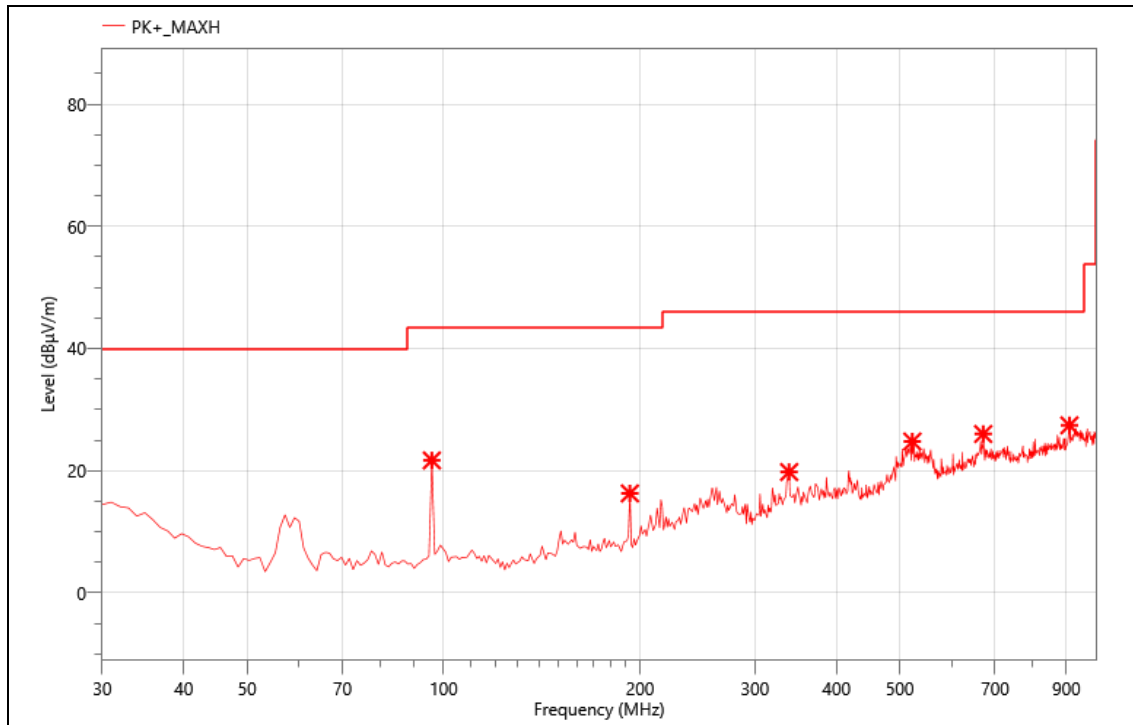
Mode:	BLE 2M 2402
Power:	AC 120V/60Hz
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	95.960	62.48	-24.49	37.99	43.50	5.51	PK+	H
2	192.960	48.98	-22.53	26.45	43.50	17.05	PK+	H
3	215.270	44.85	-21	23.85	43.50	19.65	PK+	H
4	385.990	38.49	-14.58	23.91	46.00	22.09	PK+	H
5	579.020	34.75	-10.59	24.16	46.00	21.84	PK+	H
6	936.950	30.73	-3.17	27.56	46.00	18.44	PK+	H

Mode:	BLE 2M 2402
Power:	AC 120V/60Hz
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	95.960	46.17	-24.49	21.68	43.50	21.82	PK+	V
2	192.960	38.81	-22.53	16.28	43.50	27.22	PK+	V
3	338.460	36.76	-16.97	19.79	46.00	26.21	PK+	V
4	522.760	35.89	-11.1	24.79	46.00	21.21	PK+	V
5	671.170	34.03	-8.02	26.01	46.00	19.99	PK+	V
6	909.790	31.85	-4.42	27.43	46.00	18.57	PK+	V

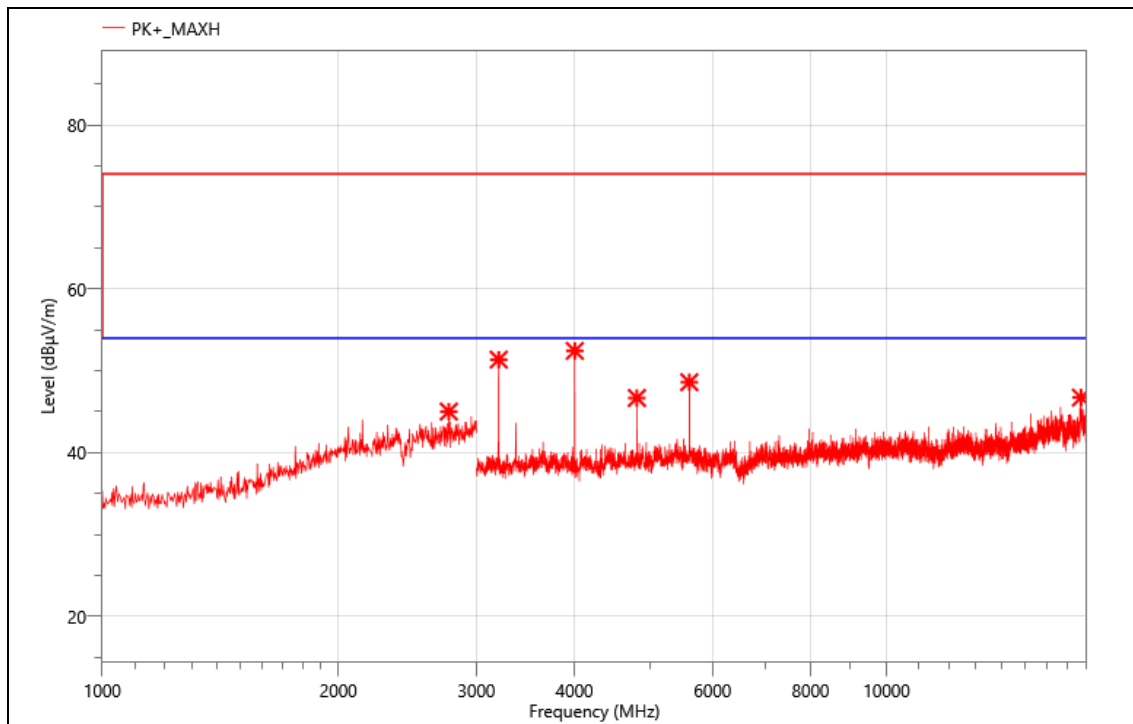
Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

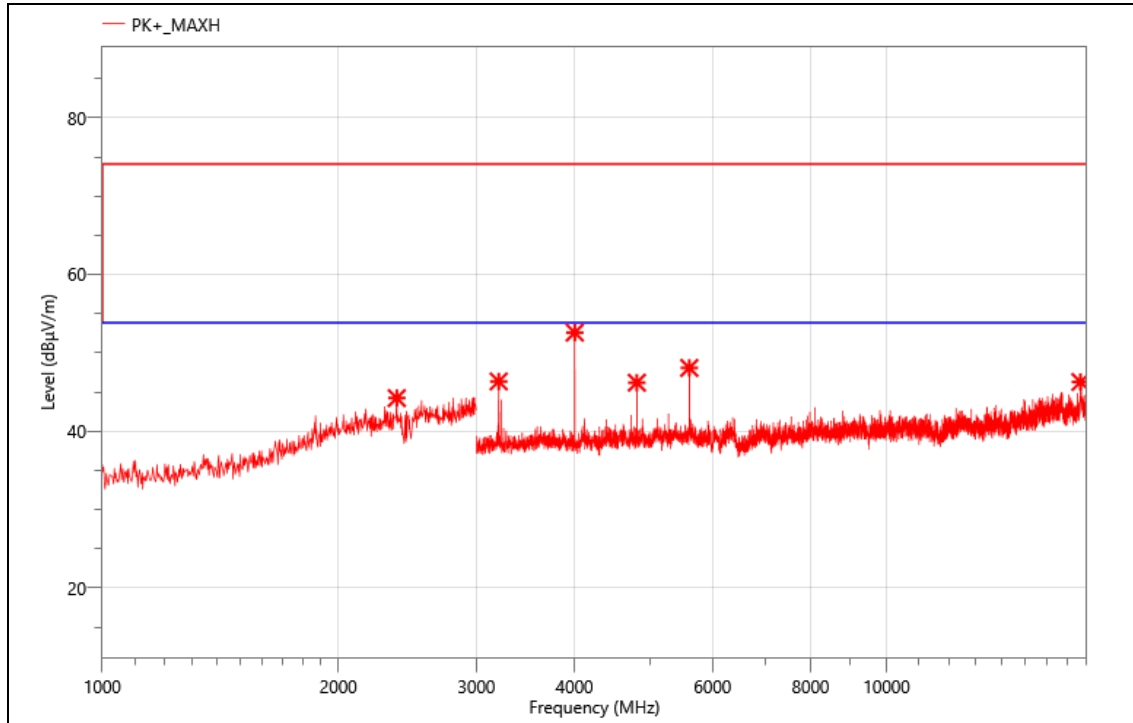
All modes have been tested and the worst result as bellow:

Mode:	BLE 2M 2402
Power:	AC 120V/60Hz
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2766.000	53.17	-8.16	45.01	74.00	28.99	PK+	H
2	3202.500	66.14	-14.79	51.35	74.00	22.65	PK+	H
3	4003.500	65.78	-13.37	52.41	74.00	21.59	PK+	H
4	4804.500	58.00	-11.34	46.66	74.00	27.34	PK+	H
5	5604.000	57.85	-9.26	48.59	74.00	25.41	PK+	H
6	17697.000	46.51	0.2	46.71	74.00	27.29	PK+	H

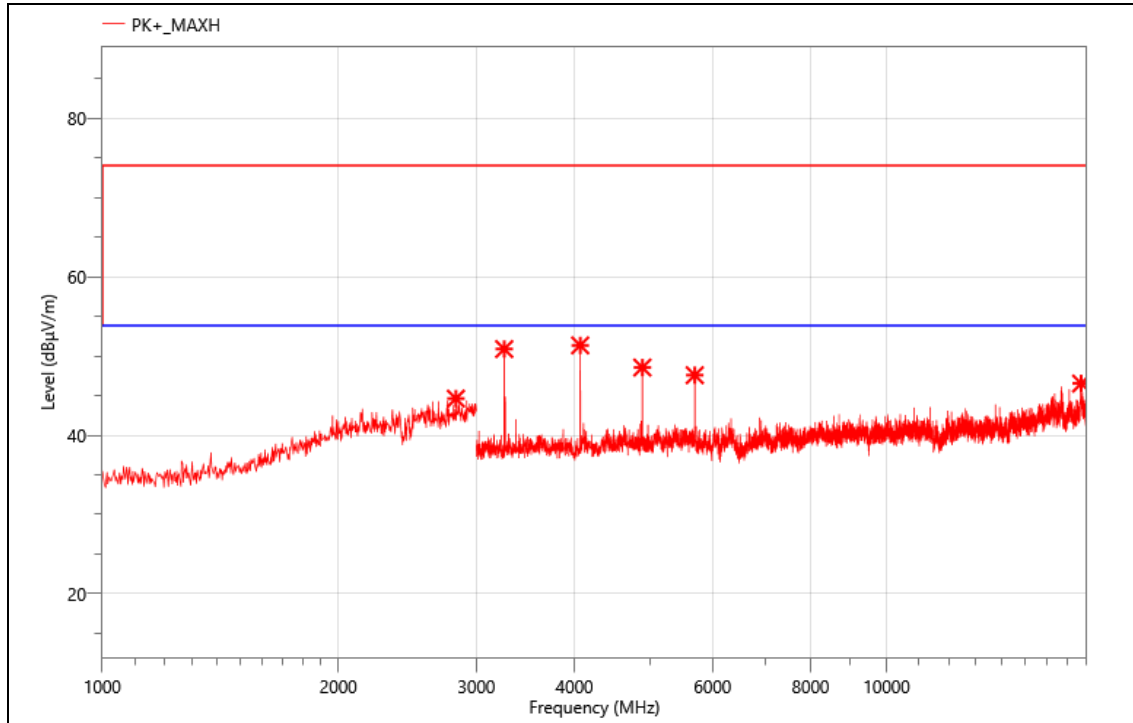
Mode:	BLE 2M 2402
Power:	AC 120V/60Hz
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2374.000	52.71	-8.49	44.22	74.00	29.78	PK+	V
2	3202.500	61.14	-14.79	46.35	74.00	27.65	PK+	V
3	4003.500	65.95	-13.37	52.58	74.00	21.42	PK+	V
4	4803.000	57.53	-11.34	46.19	74.00	27.81	PK+	V
5	5604.000	57.33	-9.26	48.07	74.00	25.93	PK+	V
6	17670.000	46.02	0.26	46.28	74.00	27.72	PK+	V

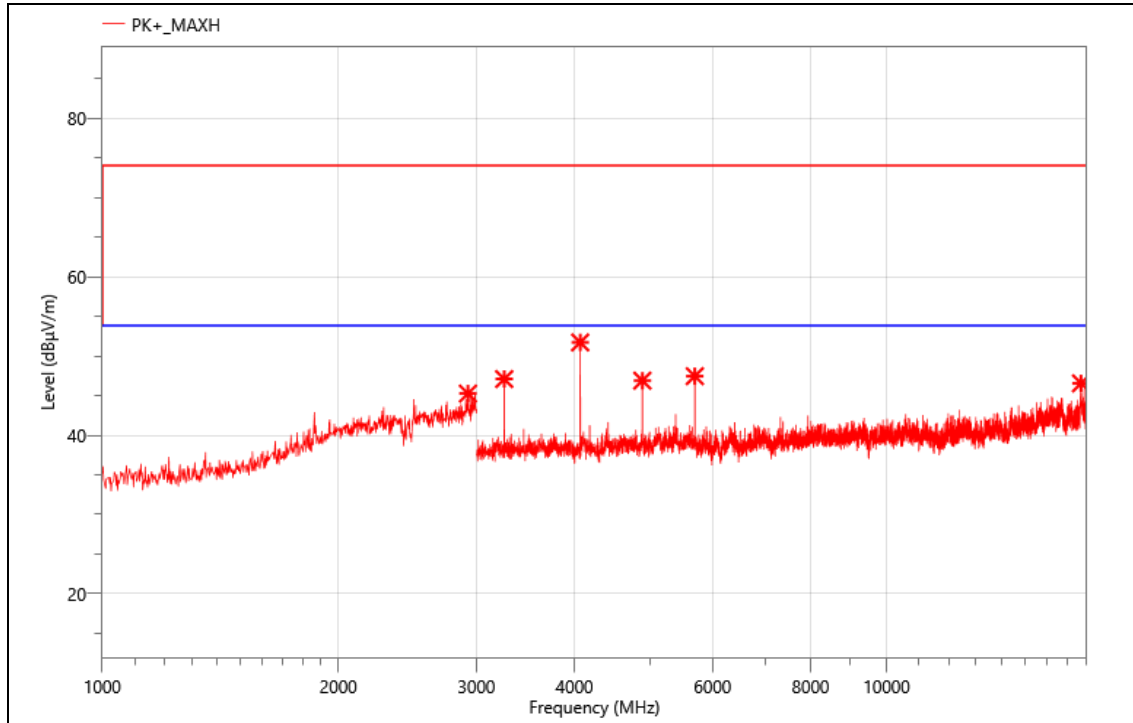
Mode:	BLE 2M 2440
Power:	AC 120V/60Hz
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2824.000	52.56	-7.92	44.64	74.00	29.36	PK+	H
2	3255.000	65.65	-14.76	50.89	74.00	23.11	PK+	H
3	4068.000	64.22	-12.86	51.36	74.00	22.64	PK+	H
4	4880.500	59.71	-11.15	48.56	74.00	25.44	PK+	H
5	5695.500	56.79	-9.2	47.59	74.00	26.41	PK+	H
6	17707.500	46.52	0.02	46.54	74.00	27.46	PK+	H

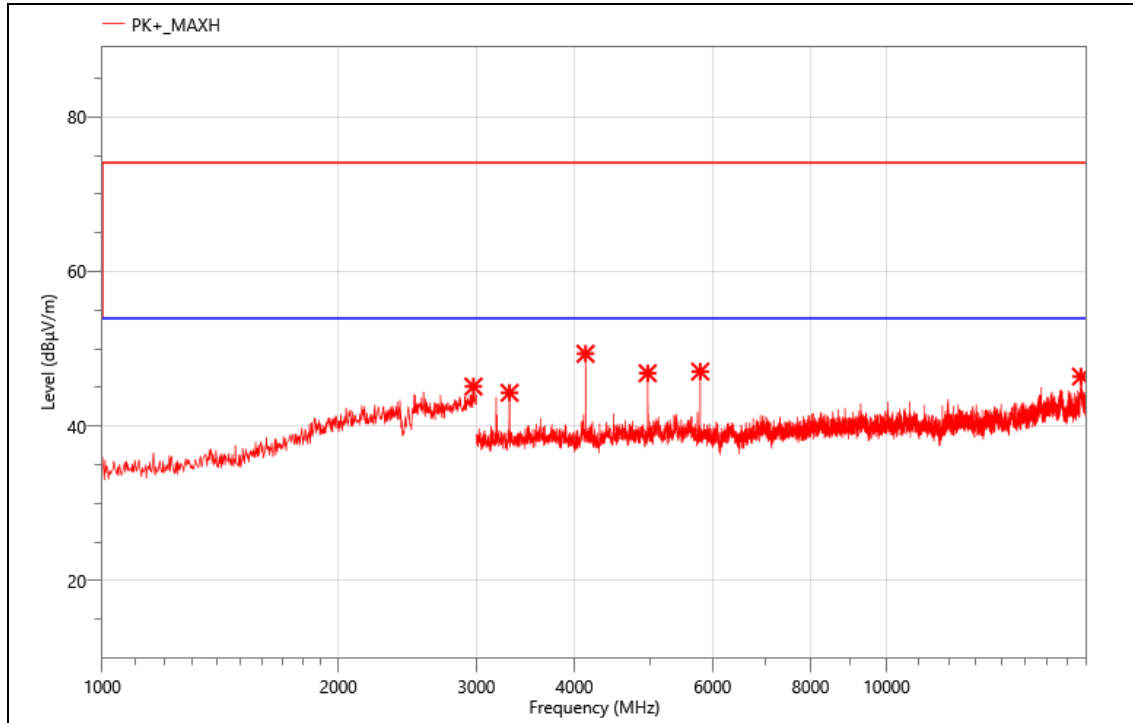
Mode:	BLE 2M 2440
Power:	AC 120V/60Hz
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2926.000	52.84	-7.57	45.27	74.00	28.73	PK+	V
2	3255.000	61.87	-14.76	47.11	74.00	26.89	PK+	V
3	4068.000	64.59	-12.86	51.73	74.00	22.27	PK+	V
4	4880.500	58.05	-11.15	46.90	74.00	27.10	PK+	V
5	5695.500	56.67	-9.2	47.47	74.00	26.53	PK+	V
6	17700.000	46.38	0.18	46.56	74.00	27.44	PK+	V

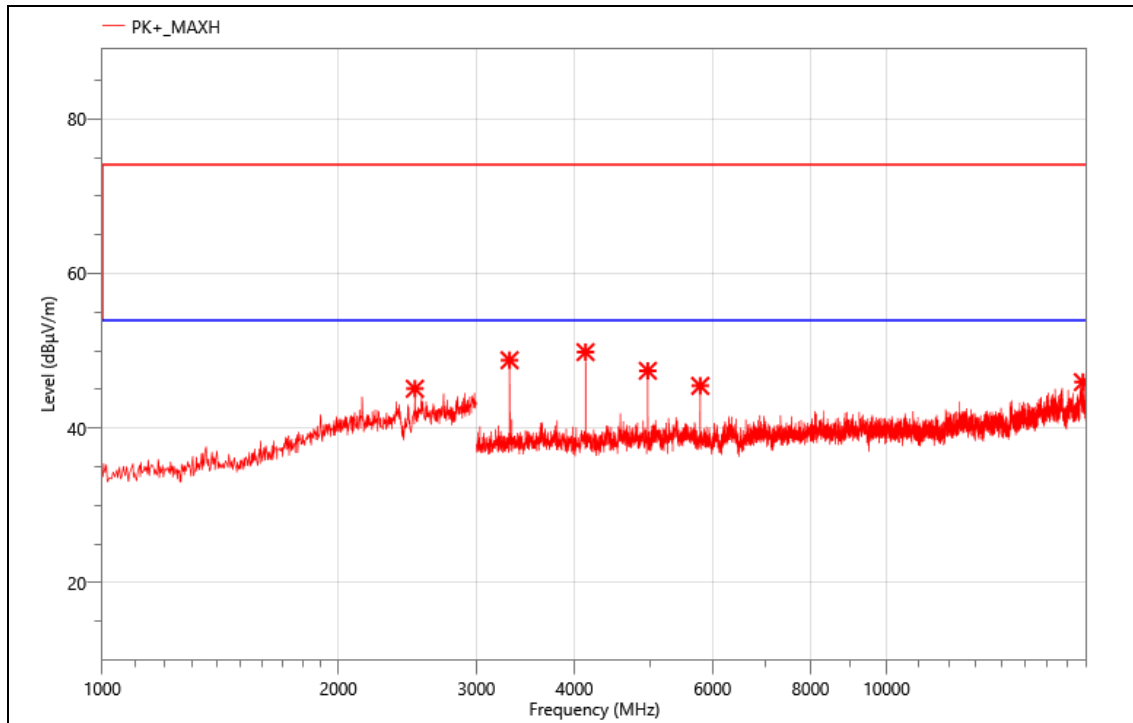
Mode:	BLE 2M 2480
Power:	AC 120V/60Hz
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2974.000	52.22	-7.09	45.13	74.00	28.87	PK+	V
2	3306.000	58.71	-14.4	44.31	74.00	29.69	PK+	V
3	4132.500	62.00	-12.64	49.36	74.00	24.64	PK+	V
4	4959.000	58.19	-11.35	46.84	74.00	27.16	PK+	V
5	5787.000	56.16	-9.1	47.06	74.00	26.94	PK+	V
6	17698.500	46.22	0.19	46.41	74.00	27.59	PK+	V

Mode:	BLE 2M 2480
Power:	AC 120V/60Hz
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2504.000	53.51	-8.41	45.10	74.00	28.90	PK+	H
2	3306.000	63.19	-14.4	48.79	74.00	25.21	PK+	H
3	4132.500	62.47	-12.64	49.83	74.00	24.17	PK+	H
4	4960.500	58.76	-11.34	47.42	74.00	26.58	PK+	H
5	5787.000	54.57	-9.1	45.47	74.00	28.53	PK+	H
6	17797.500	46.51	-0.55	45.96	74.00	28.04	PK+	H

Note:

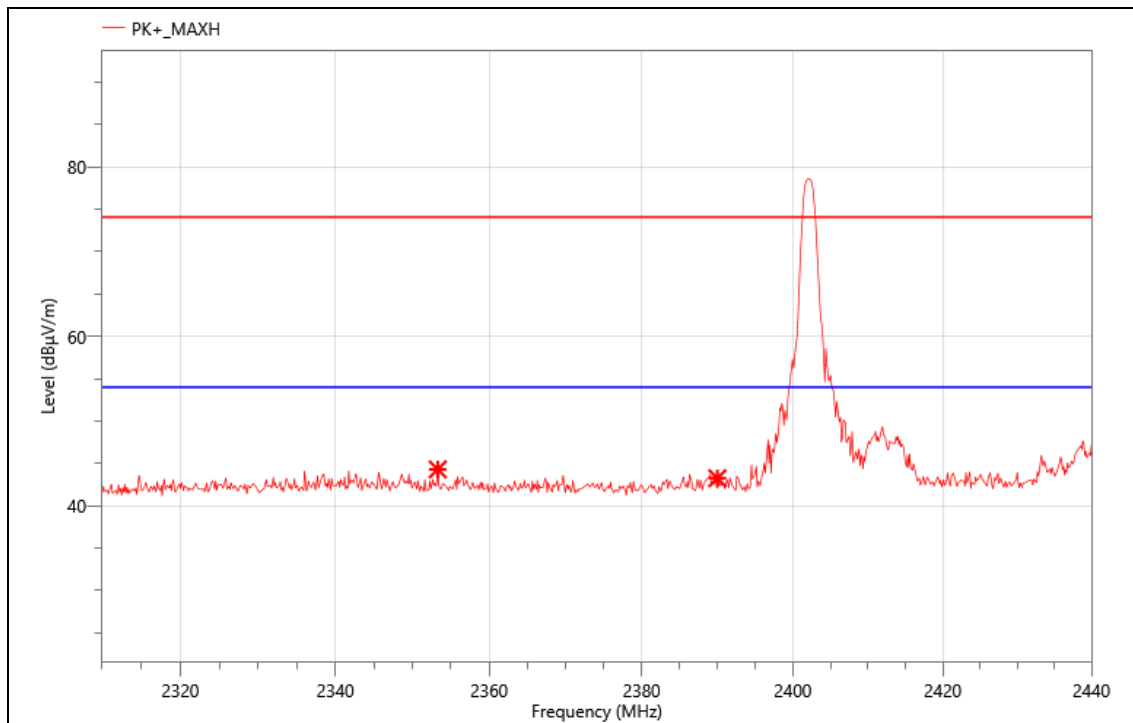
1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

For 9KHz to 30MHz and above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

Band Edge

All modes have been tested and the worst result as bellow:

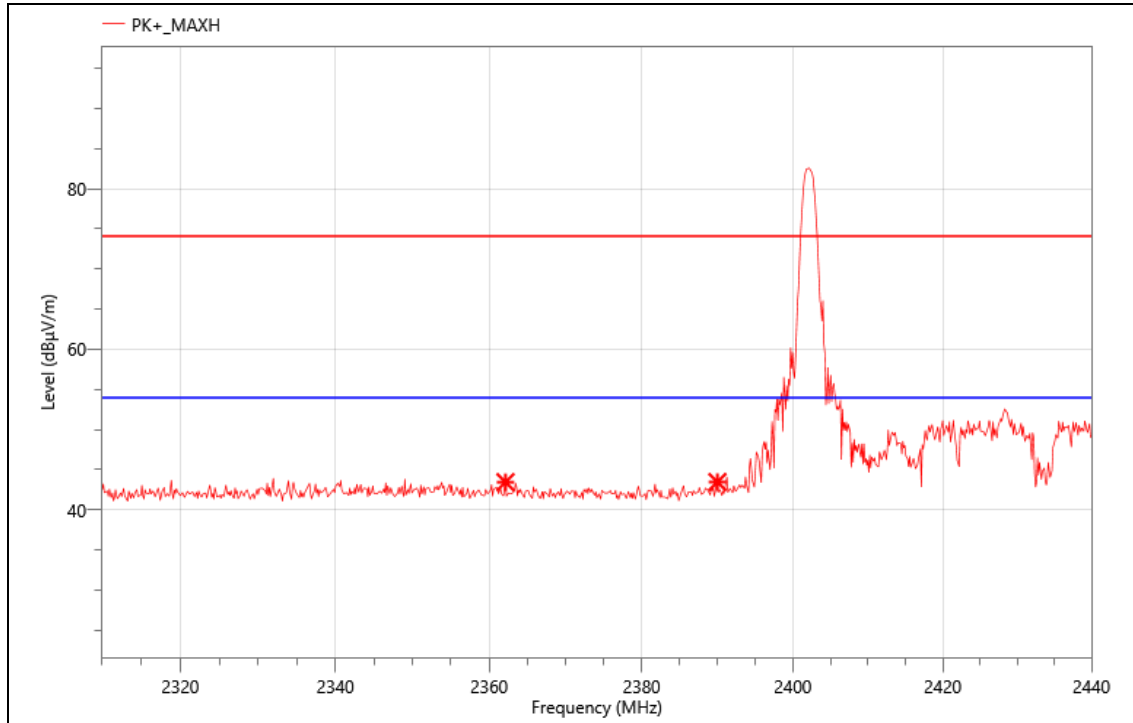
Mode:	BLE 2M 2402
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2353.290	21.54	22.76	44.30	74.00	29.70	PK+	V
2	2390.000	20.53	22.72	43.25	74.00	30.75	PK+	V

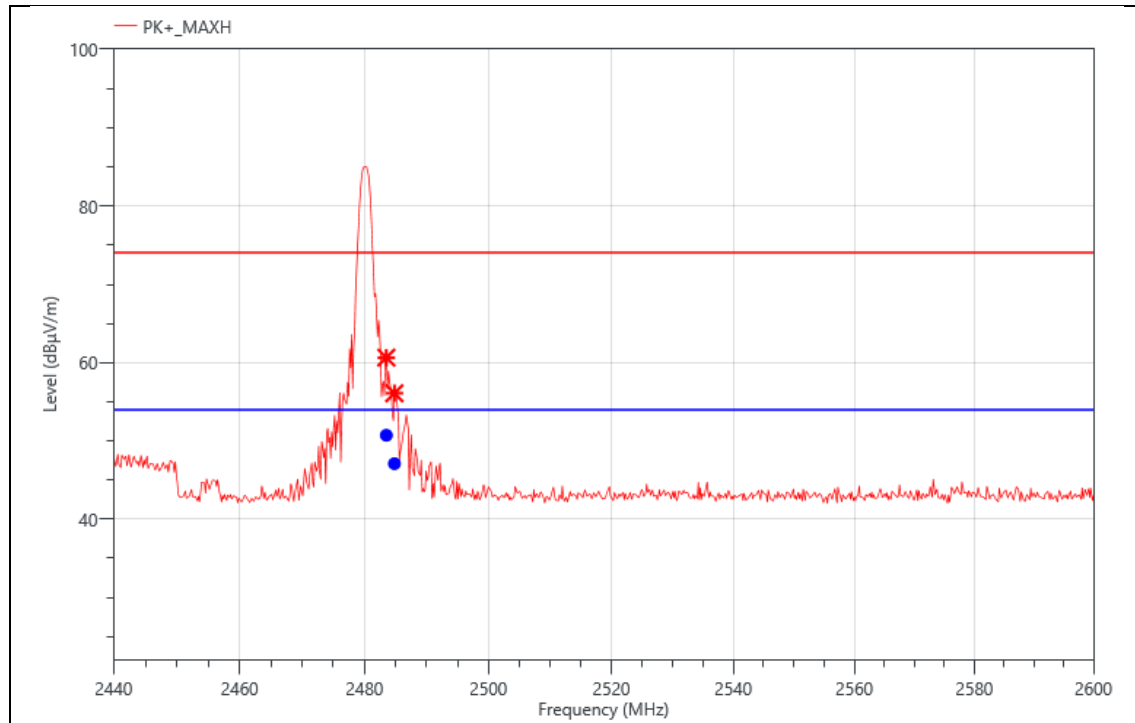
Mode:	BLE 2M 2402
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2362.130	20.76	22.7	43.46	74.00	30.54	PK+	H
2	2390.000	20.76	22.72	43.48	74.00	30.52	PK+	H

Mode:	BLE 2M 2480
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



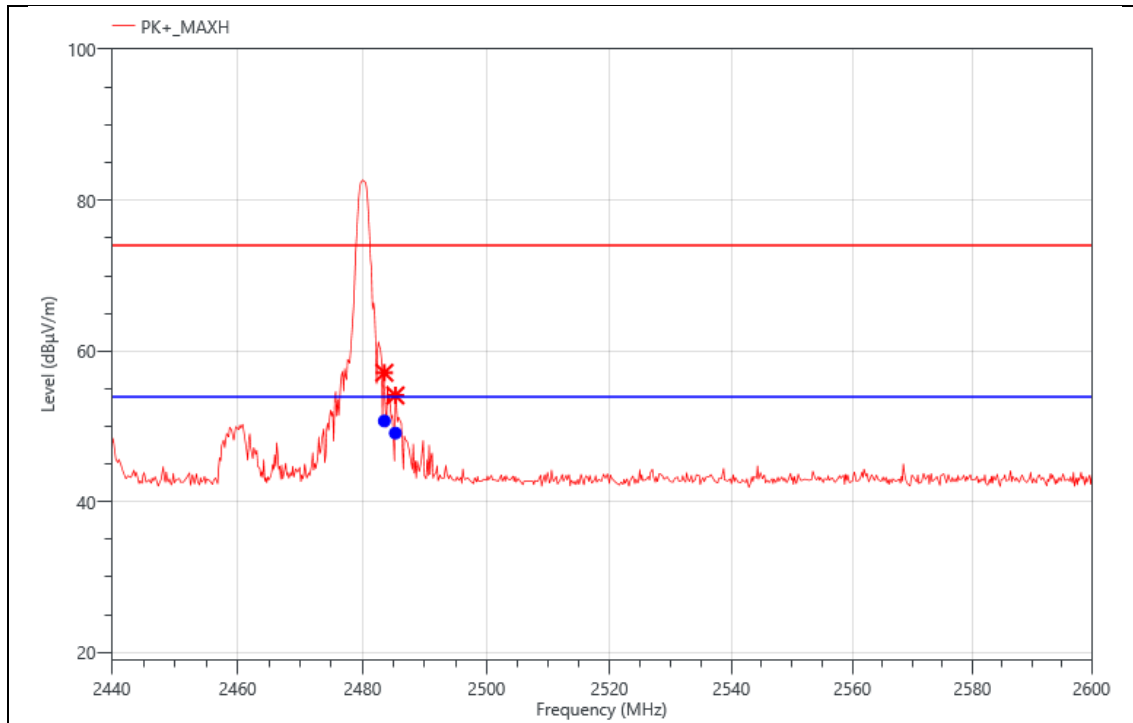
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	37.50	23.15	60.65	74.00	13.35	PK+	H
2	2484.800	32.94	23.15	56.09	74.00	17.91	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	27.57	23.15	50.72	53.90	3.18	AVG	H	PASS
2	2484.800	23.94	23.15	47.09	53.90	6.81	AVG	H	PASS

Mode:	BLE 2M 2480
Power:	AC 120V/60HZ
TE:	Berny
Date	2025/09/18
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	33.97	23.15	57.12	74.00	16.88	PK+	V
2	2485.280	30.97	23.14	54.11	74.00	19.89	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	27.57	23.15	50.72	53.90	3.18	AVG	V	PASS
2	2485.280	25.97	23.14	49.11	53.90	4.79	AVG	V	PASS

Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §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.

Please refer to FCC §15.247(b)(4)

The 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. Except as shown in paragraph (c) of this section, 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)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass.

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

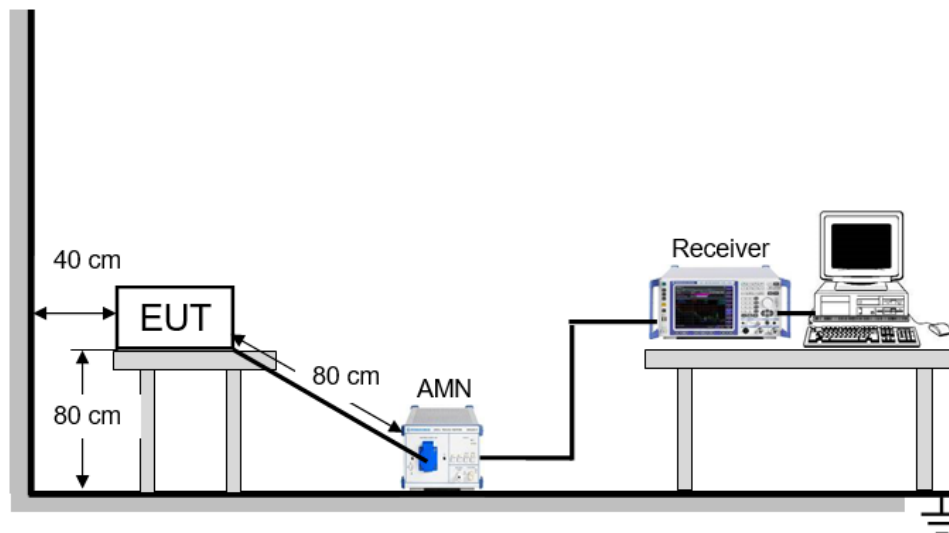
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 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. The bandwidth of EMI test receiver is set at 9 kHz.

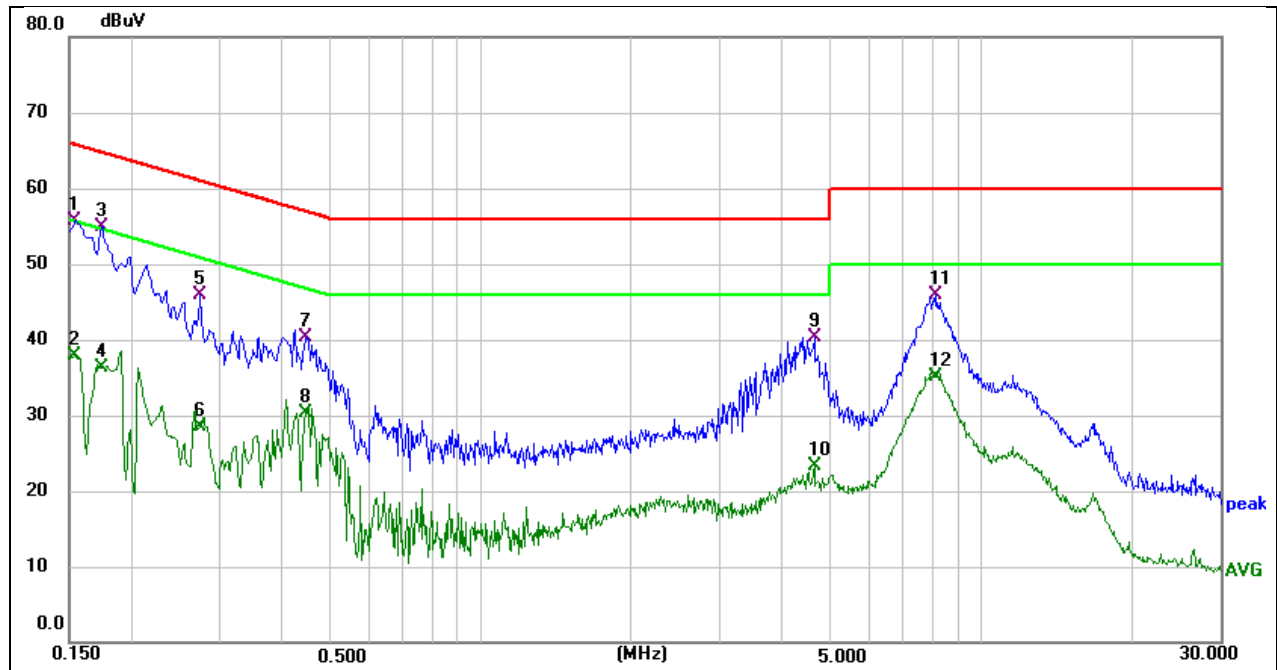
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

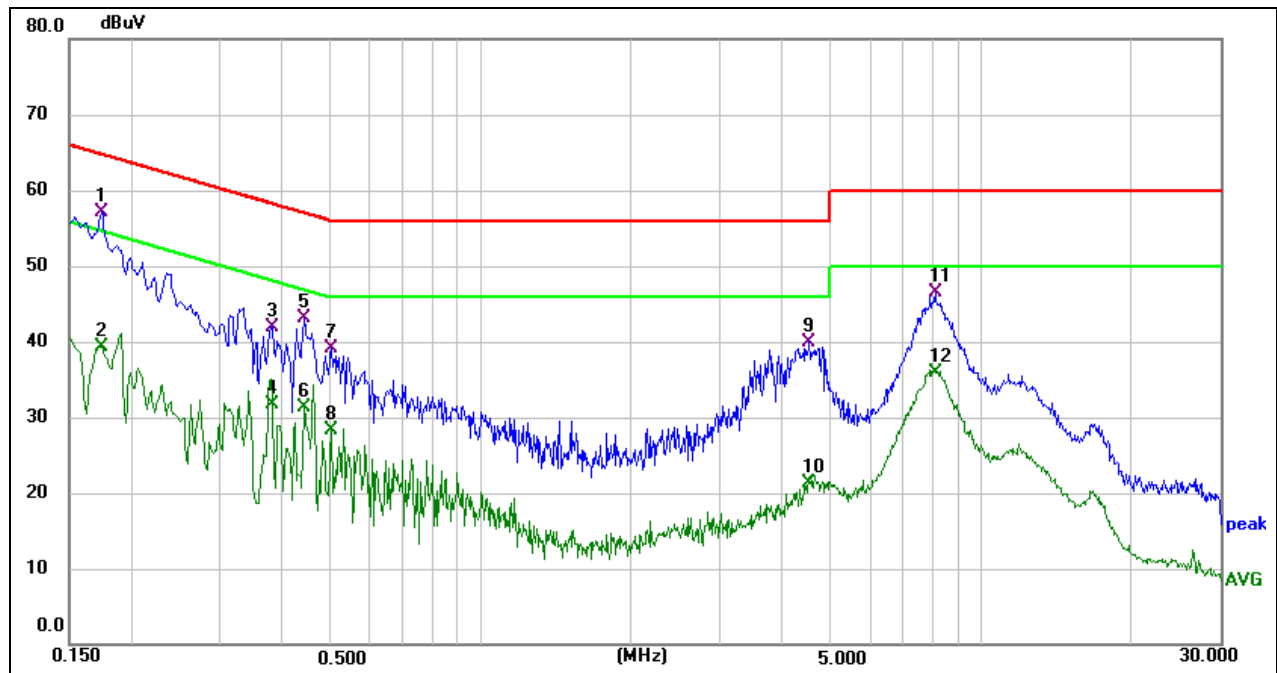
Temperature	23.4°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST RESULTS

Phase: N

Mode: BLE 2M 2402MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	46.03	9.69	55.72	65.79	-10.07	QP
2	0.1539	28.18	9.69	37.87	55.79	-17.92	AVG
3	0.1740	45.03	9.81	54.84	64.77	-9.93	QP
4	0.1740	26.49	9.81	36.30	54.77	-18.47	AVG
5	0.2740	35.65	10.17	45.82	61.00	-15.18	QP
6	0.2740	18.36	10.17	28.53	51.00	-22.47	AVG
7	0.4460	29.73	10.66	40.39	56.95	-16.56	QP
8	0.4460	19.70	10.66	30.36	46.95	-16.59	AVG
9	4.6340	30.09	10.30	40.39	56.00	-15.61	QP
10	4.6340	12.94	10.30	23.24	46.00	-22.76	AVG
11	8.1300	35.26	10.63	45.89	60.00	-14.11	QP
12	8.1300	24.57	10.63	35.20	50.00	-14.80	AVG



Phase: N

Mode: BLE 2M 2402MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1740	47.07	10.01	57.08	64.77	-7.69	QP
2	0.1740	29.37	10.01	39.38	54.77	-15.39	AVG
3	0.3820	31.54	10.41	41.95	58.24	-16.29	QP
4	0.3820	21.21	10.41	31.62	48.24	-16.62	AVG
5	0.4420	32.47	10.56	43.03	57.02	-13.99	QP
6	0.4420	20.73	10.56	31.29	47.02	-15.73	AVG
7	0.5020	28.43	10.70	39.13	56.00	-16.87	QP
8	0.5020	17.67	10.70	28.37	46.00	-17.63	AVG
9	4.5300	30.11	9.89	40.00	56.00	-16.00	QP
10	4.5300	11.36	9.89	21.25	46.00	-24.75	AVG
11	8.0780	36.17	10.36	46.53	60.00	-13.47	QP
12	8.0780	25.58	10.36	35.94	50.00	-14.06	AVG

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

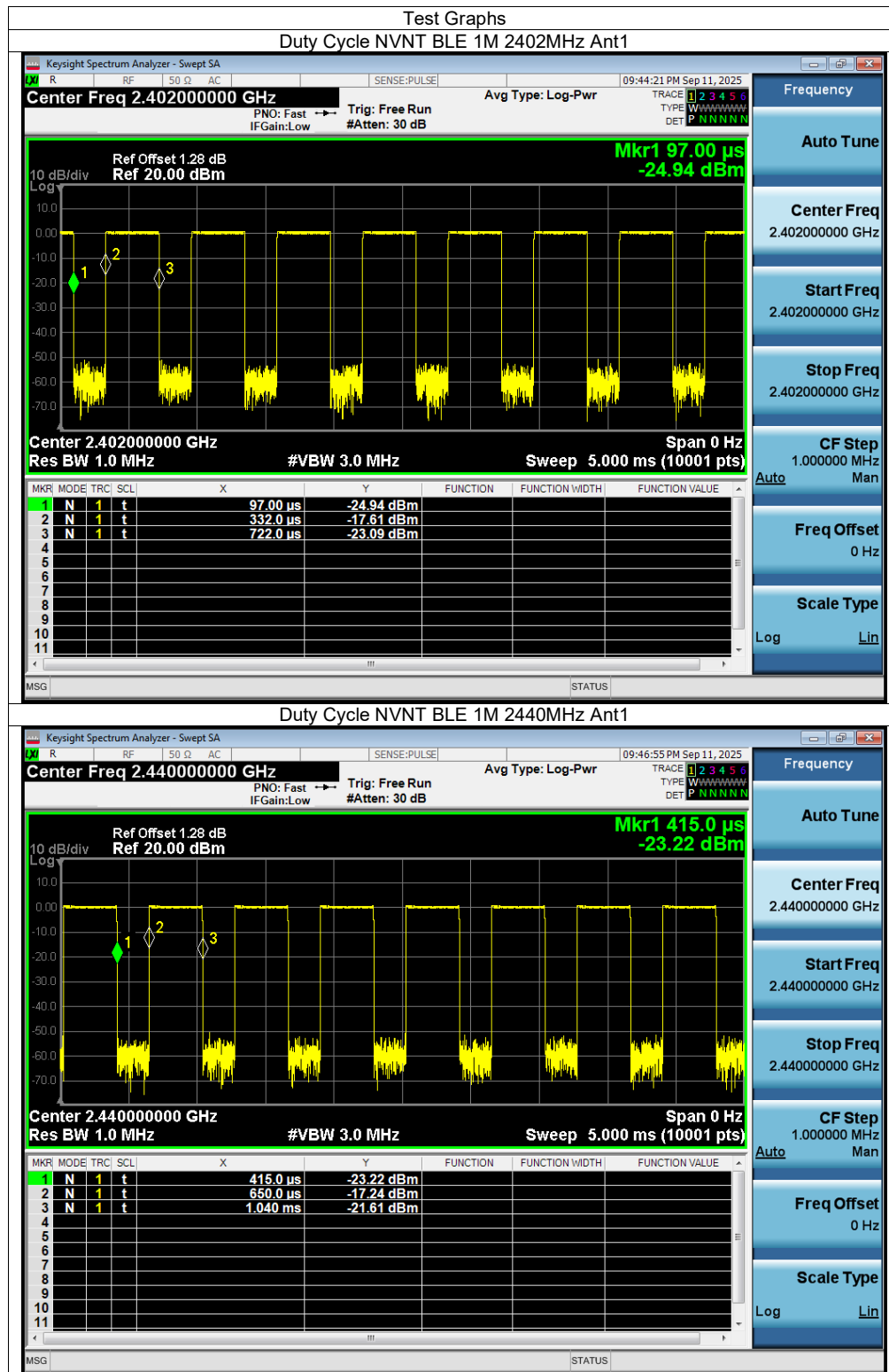
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

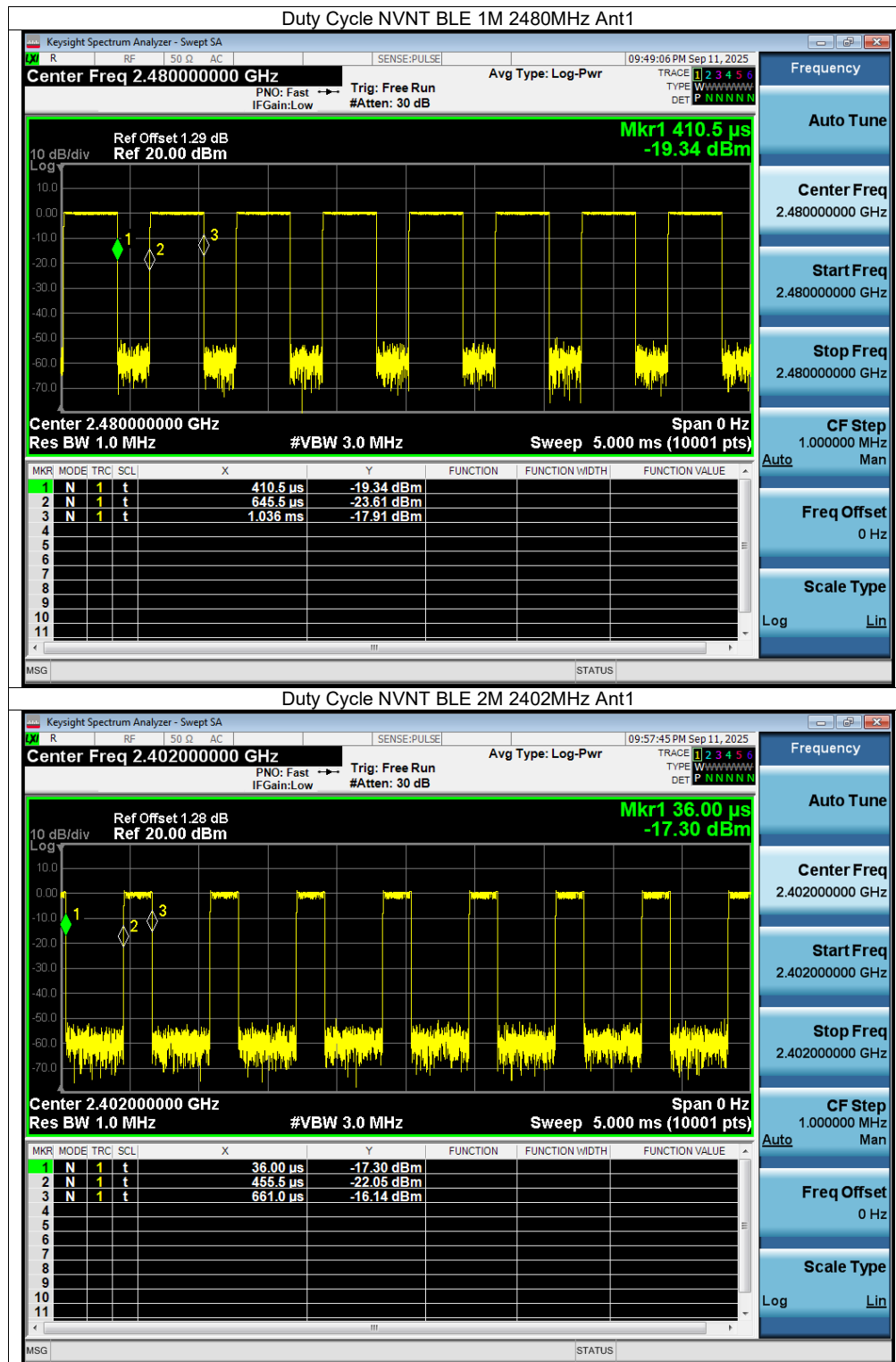
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

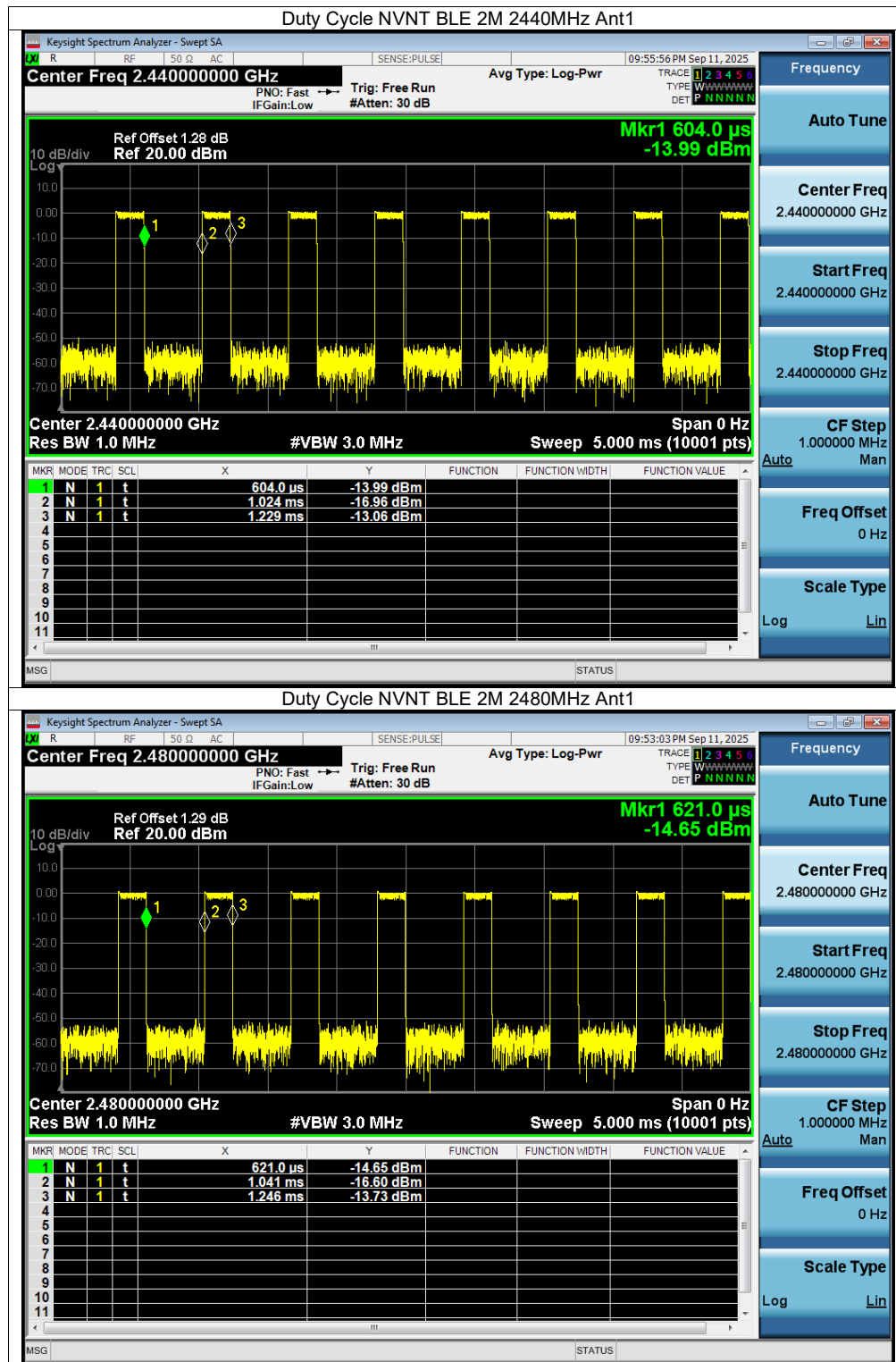
11. TEST DATA - Appendix A

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	BLE 1M	2402	Ant1	0.39	0.63	61.9	2.08	2.56	1
NVNT	BLE 1M	2440	Ant1	0.39	0.62	62.9	2.01	2.56	1
NVNT	BLE 1M	2480	Ant1	0.39	0.62	62.9	2.01	2.56	1
NVNT	BLE 2M	2402	Ant1	0.21	0.63	33.33	4.77	4.87	1
NVNT	BLE 2M	2440	Ant1	0.21	0.63	33.33	4.77	4.88	1
NVNT	BLE 2M	2480	Ant1	0.2	0.63	31.75	4.98	4.88	1

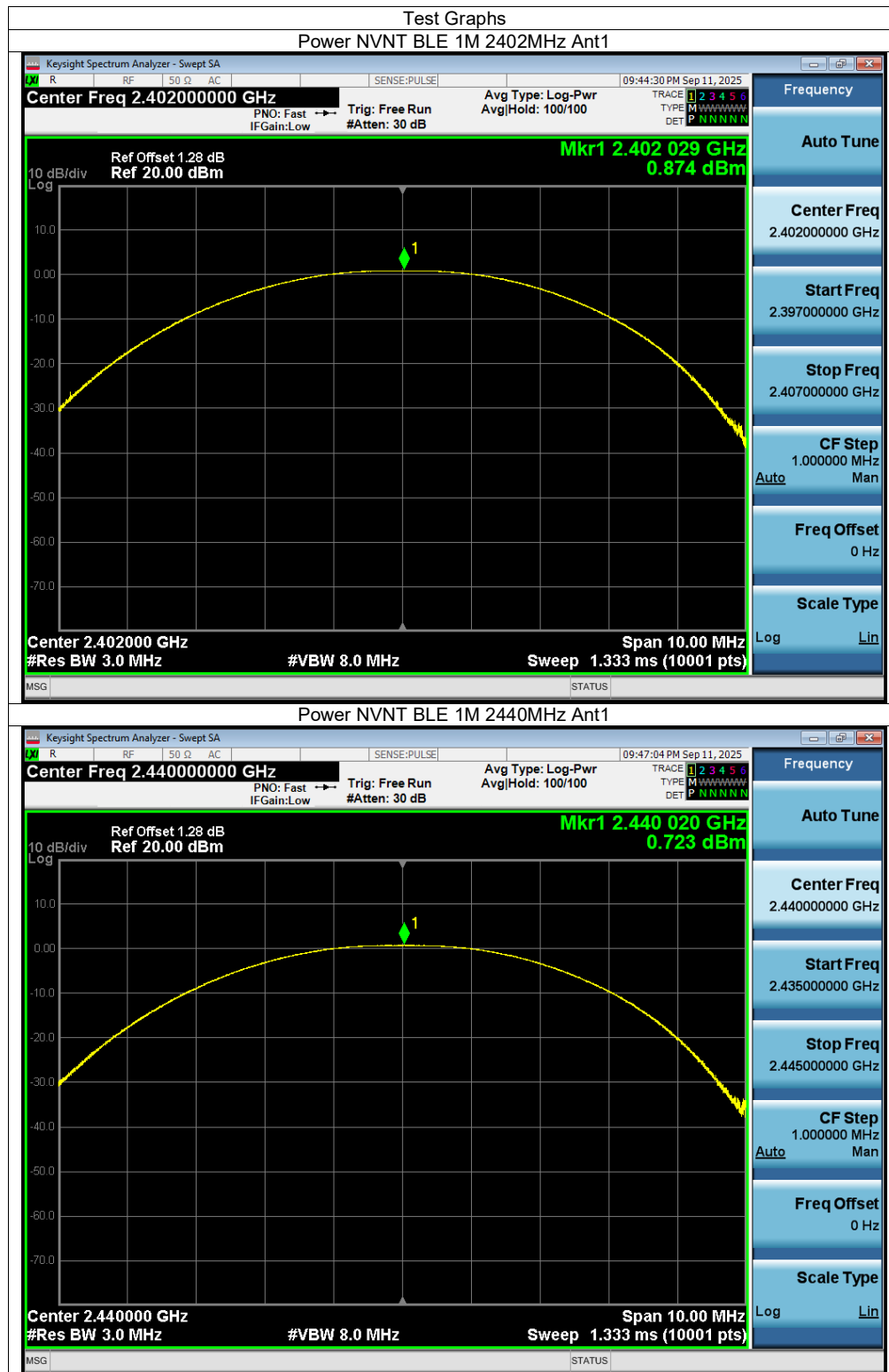


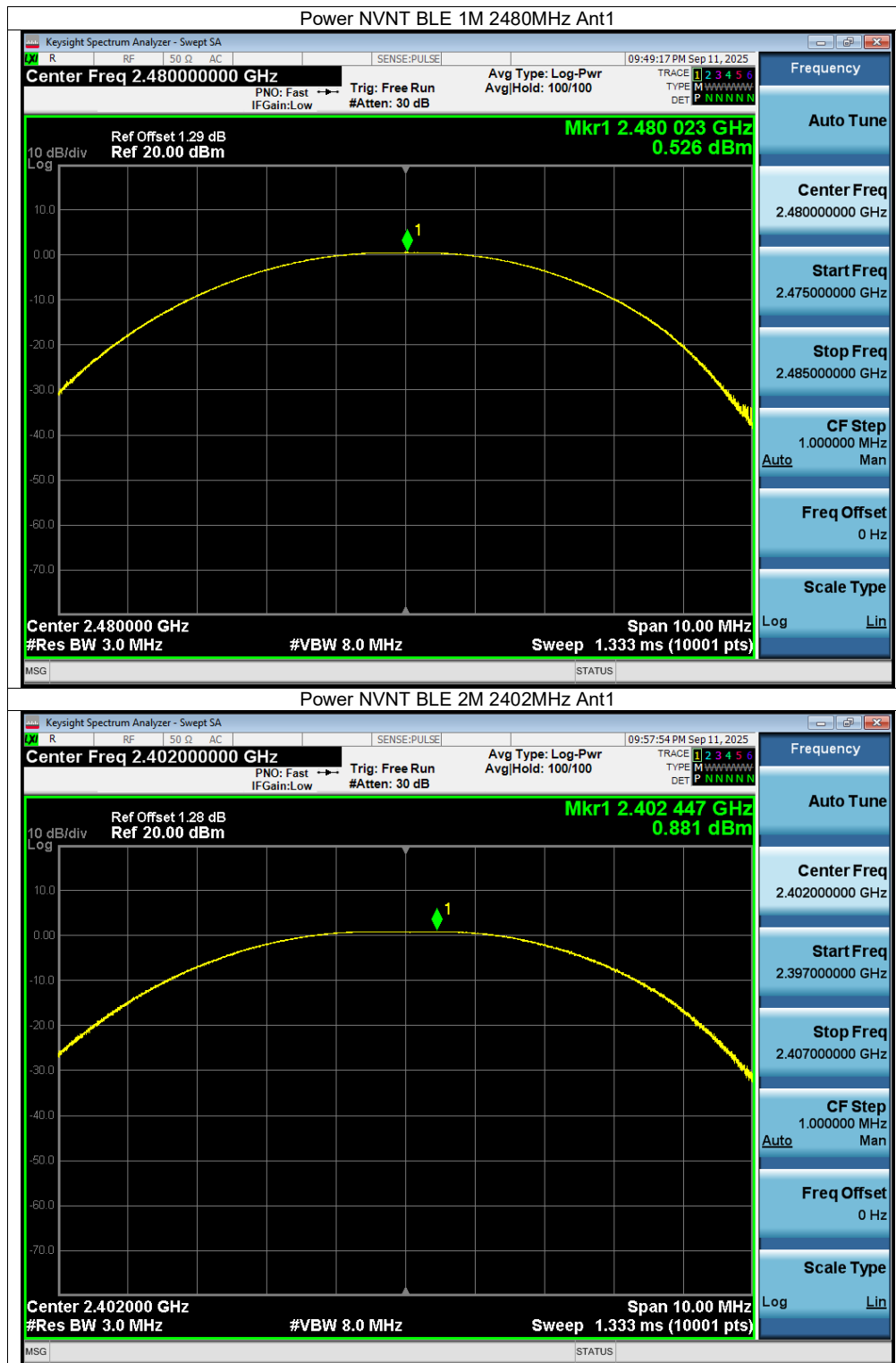


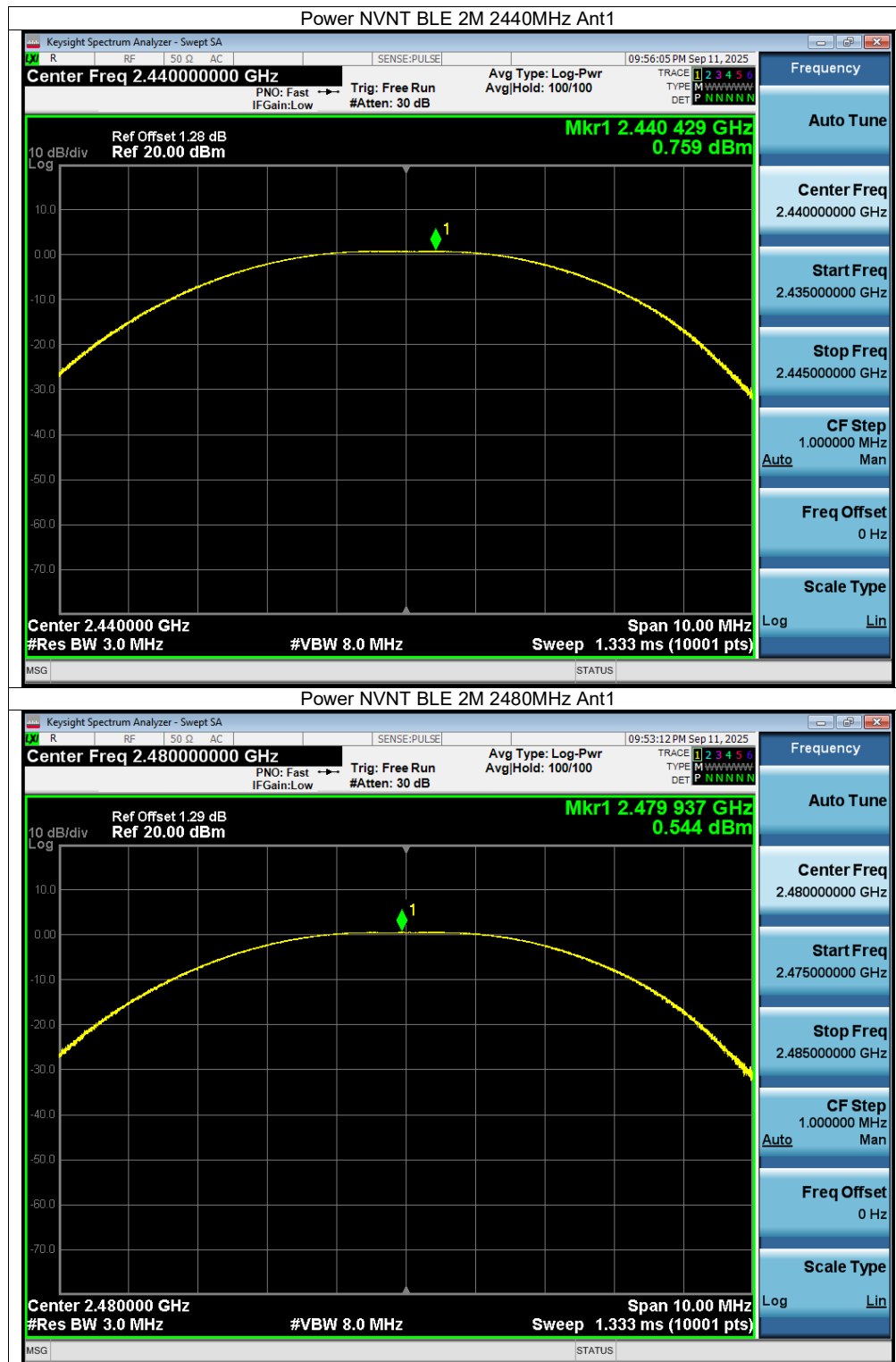


Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.87	30	Pass
NVNT	BLE 1M	2440	Ant1	0.72	30	Pass
NVNT	BLE 1M	2480	Ant1	0.53	30	Pass
NVNT	BLE 2M	2402	Ant1	0.88	30	Pass
NVNT	BLE 2M	2440	Ant1	0.76	30	Pass
NVNT	BLE 2M	2480	Ant1	0.54	30	Pass



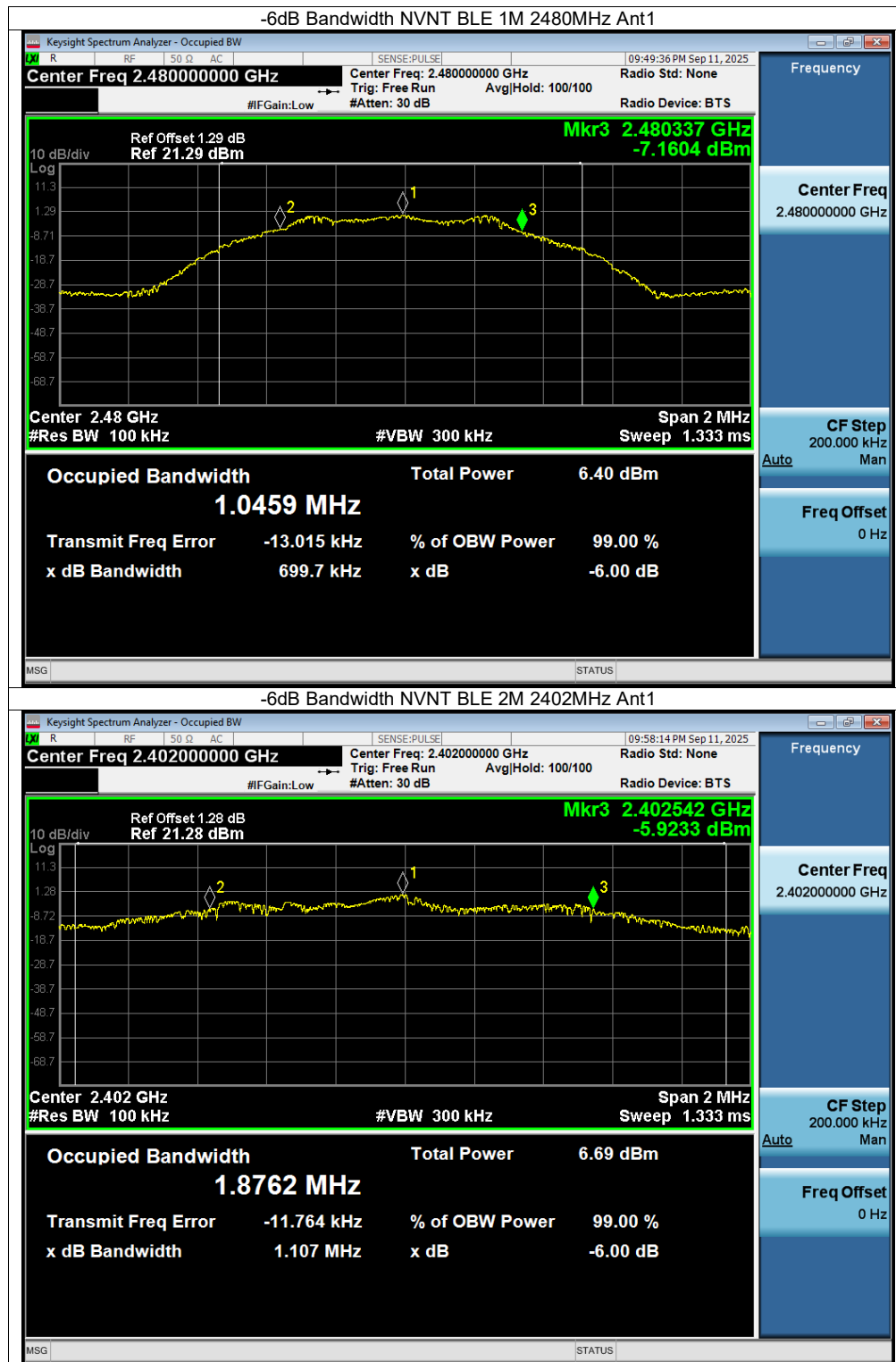


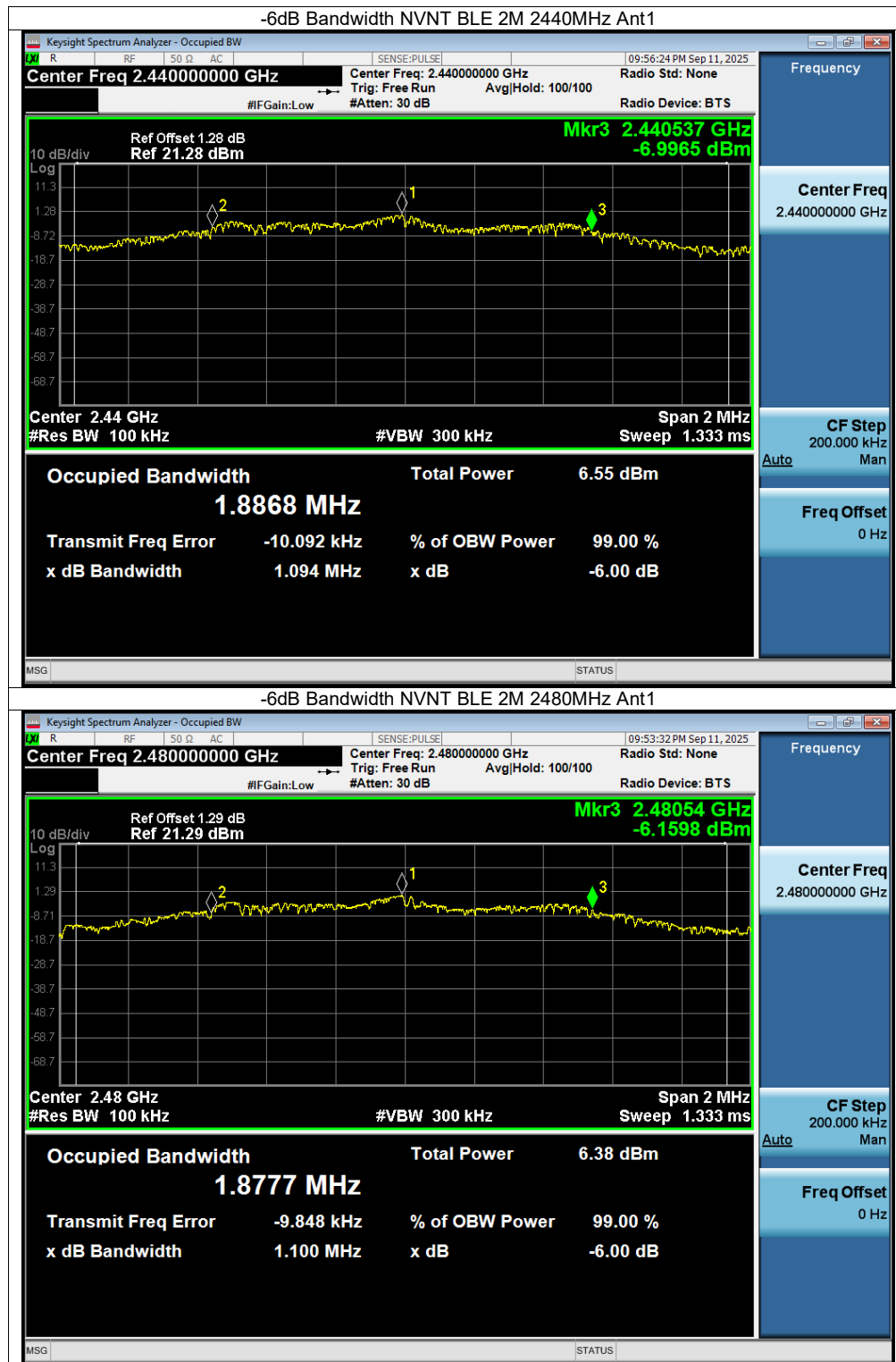


-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.7	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.7	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.7	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.11	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.09	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.1	0.5	Pass





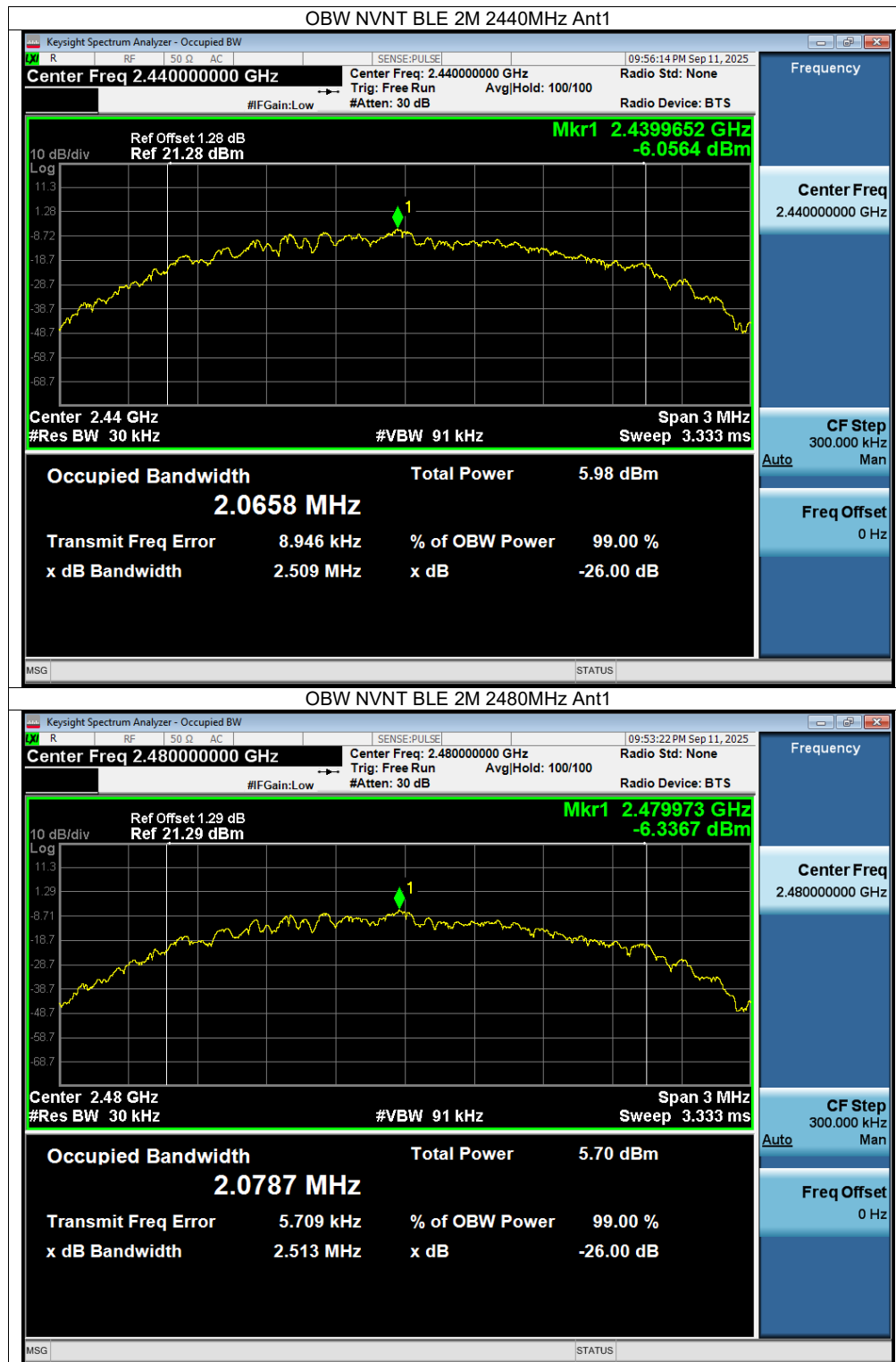


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.048
NVNT	BLE 1M	2440	Ant1	1.048
NVNT	BLE 1M	2480	Ant1	1.044
NVNT	BLE 2M	2402	Ant1	2.064
NVNT	BLE 2M	2440	Ant1	2.066
NVNT	BLE 2M	2480	Ant1	2.079

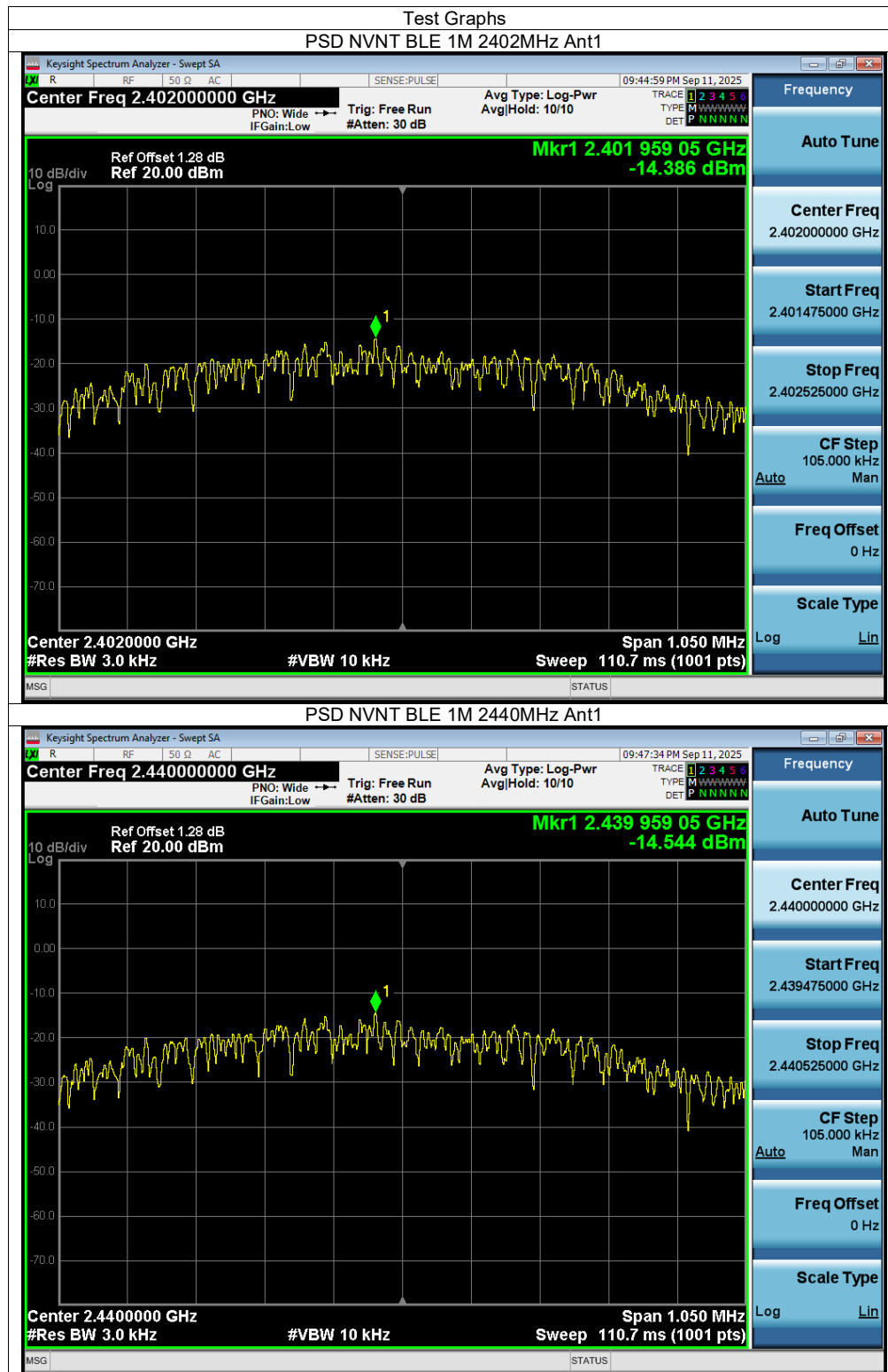




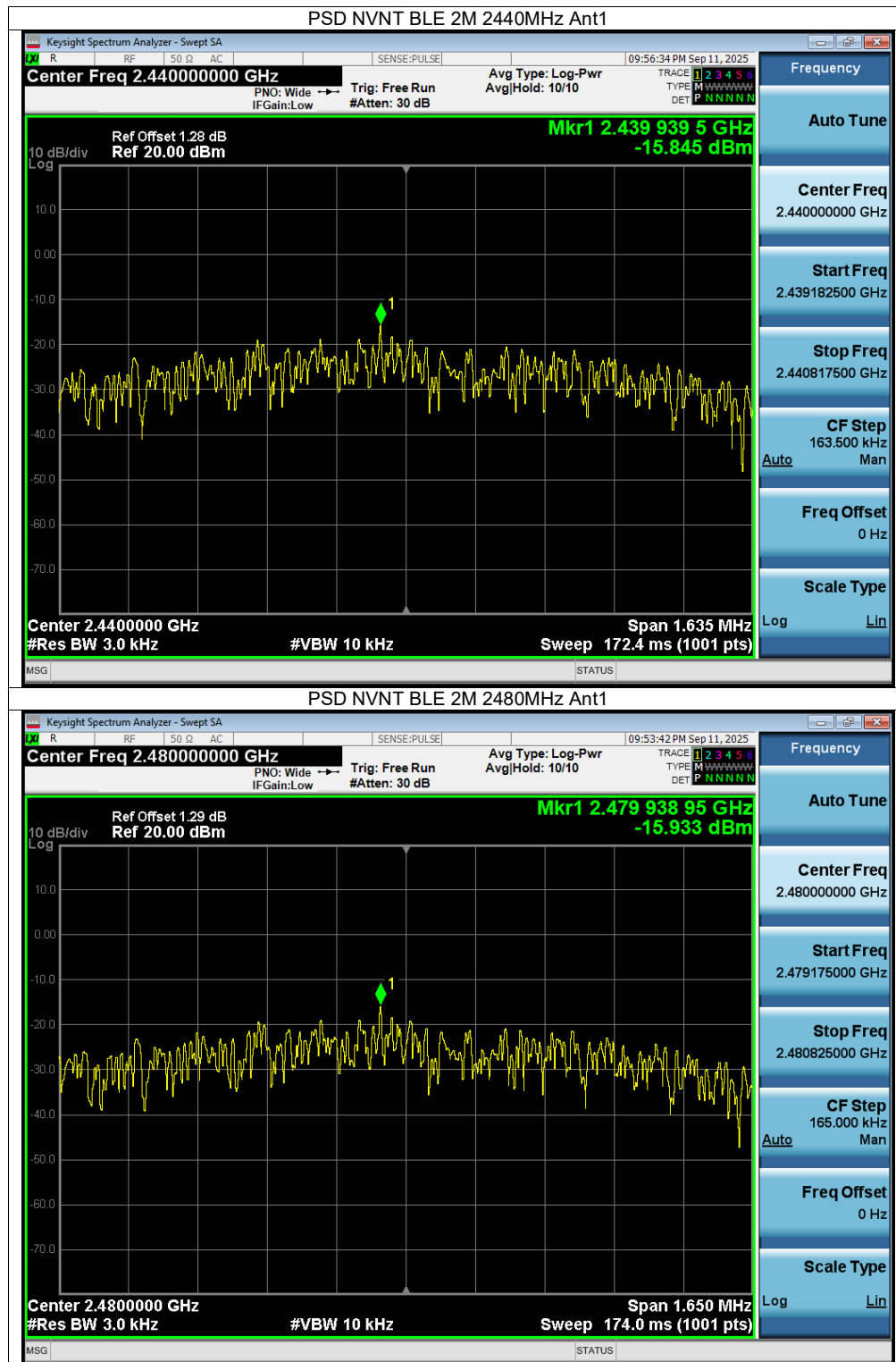


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.39	8	Pass
NVNT	BLE 1M	2440	Ant1	-14.54	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.76	8	Pass
NVNT	BLE 2M	2402	Ant1	-15.46	8	Pass
NVNT	BLE 2M	2440	Ant1	-15.85	8	Pass
NVNT	BLE 2M	2480	Ant1	-15.93	8	Pass

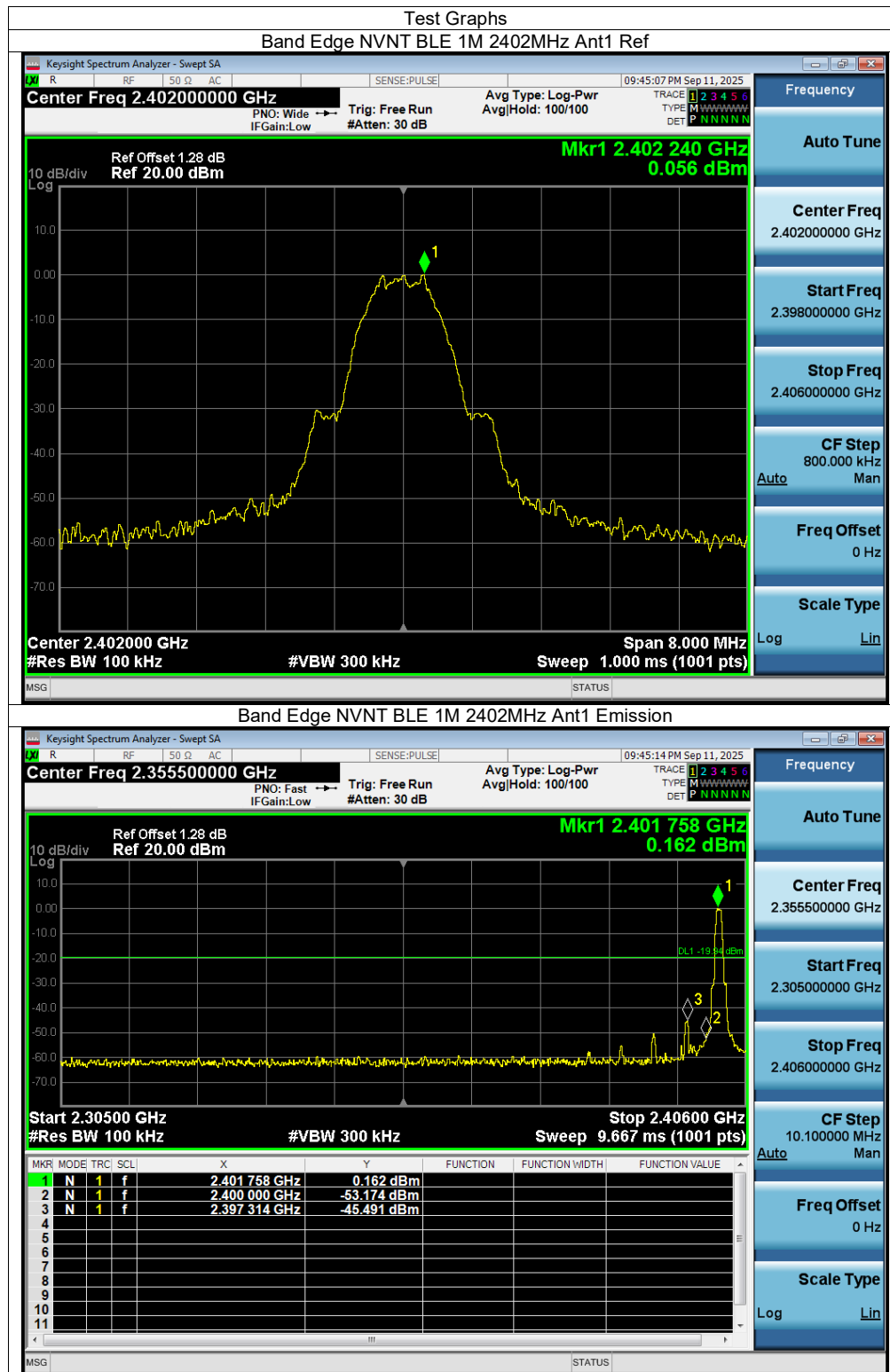


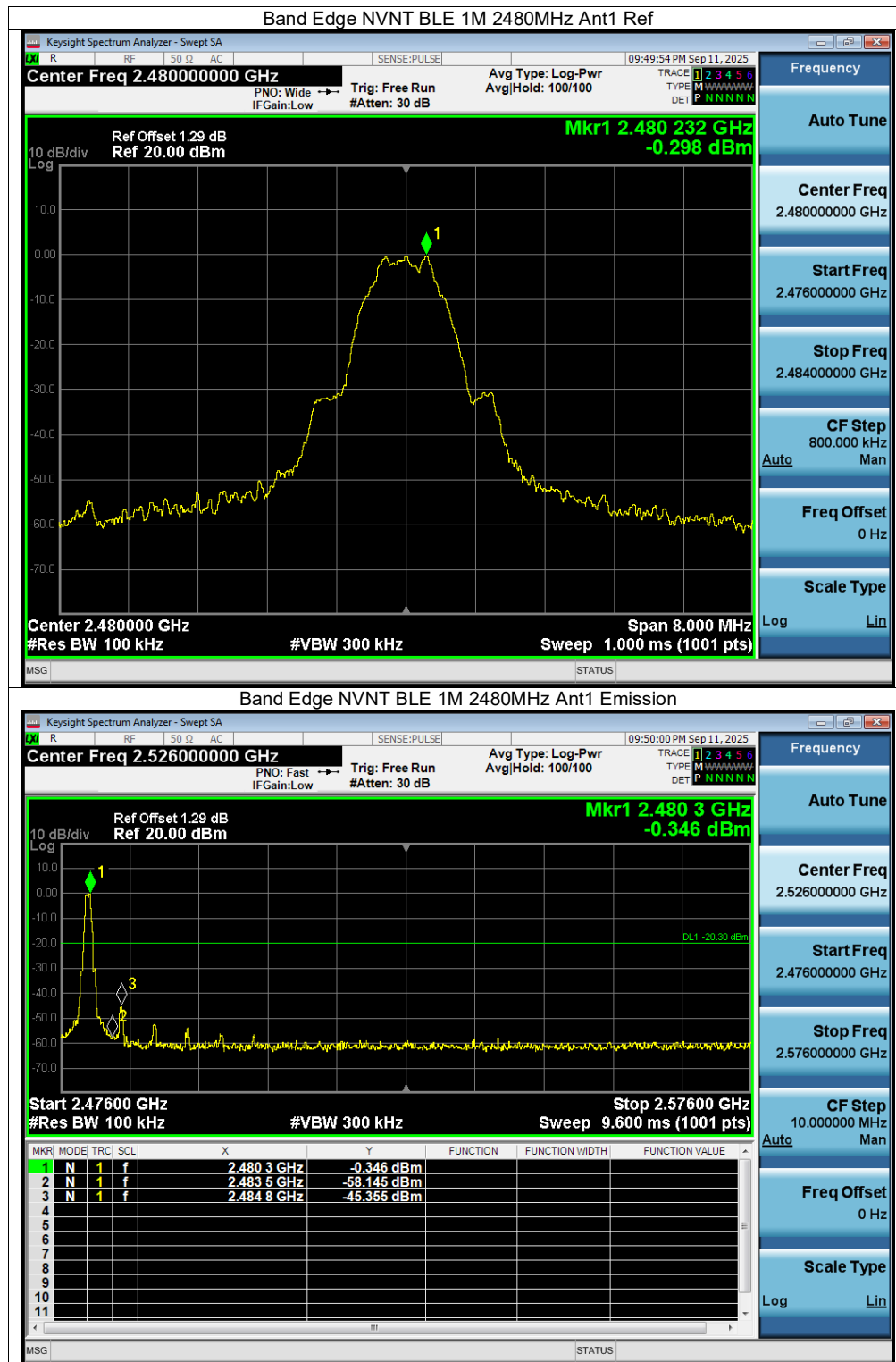




Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.55	-20	Pass
NVNT	BLE 1M	2480	Ant1	-45.06	-20	Pass
NVNT	BLE 2M	2402	Ant1	-32.63	-20	Pass
NVNT	BLE 2M	2480	Ant1	-44.79	-20	Pass









Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-43.14	-20	Pass
NVNT	BLE 1M	2440	Ant1	-42.15	-20	Pass
NVNT	BLE 1M	2480	Ant1	-42.48	-20	Pass
NVNT	BLE 2M	2402	Ant1	-42.72	-20	Pass
NVNT	BLE 2M	2440	Ant1	-43.04	-20	Pass
NVNT	BLE 2M	2480	Ant1	-42.78	-20	Pass

