



REPORT No.: SZ25070325W01

TEST REPORT

APPLICANT : FJ Dynamics Co.,Ltd.

PRODUCT NAME : LiDAR Scanner

MODEL NAME : P2

BRAND NAME : FJDTrion

FCC ID : 2A2LL-FJDP2

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2025-08-05

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Edited by:

Peng Mi

Peng Mi (Rapporteur)

Approved by:

Shen Junsheng

Shen Junsheng (Supervisor)

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MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





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Change History		
Version	Date	Reason for change
1.0	2025-09-29	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	/
2	N/A	Duty Cycle of Test Signal	Aug. 26, 2025	Lin Haoyang	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Aug. 26, 2025	Lin Haoyang	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Aug. 26, 2025	Lin Haoyang	PASS	/
5	15.247(a)	Bandwidth	Aug. 26, 2025	Lin Haoyang	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Aug. 26, 2025	Lin Haoyang	PASS	/
7	15.247(e)	Power Spectral Density	Aug. 26, 2025	Lin Haoyang	PASS	/
8	15.207	Conducted Emission	Aug. 26, 2025	Wang Yapeng	PASS	/
9	15.247(d)	Restricted Frequency Bands	Sep. 05, 2025	Wang Deyong	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Sep. 04&05, 2025	Wang Deyong	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2020 and KDB 558074 D01 v05r02.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the “Remark”.

1.1. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2025.01.15	2026.01.14
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.2.2 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	101052	ESPI	R&S	2025.05.15	2026.05.14
LISN	103131	ENV 216	R&S	2025.03.20	2026.03.19
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	R&S	2025.05.13	2026.05.12
RF Coaxial Cable (DC-100MHz)	EMC-CE-00514	N/A	N/A	2025.05.06	2026.05.05

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
JS32-RE	Tonscend	5.0.0
TS+ -[JS32-CE]	Tonscend	2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2025.06.28	2026.06.27
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	9120D-963	BBHA 9120D	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2025.06.20	2026.06.19
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.09.11	2025.09.10
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29



1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Peak Output Power	$\pm 2.22\text{dB}$	Confidence levels of 95%
Power Spectral Density	$\pm 2.22\text{dB}$	Confidence levels of 95%
Bandwidth	$\pm 5\%$	Confidence levels of 95%
Conducted Spurious Emission	$\pm 2.77\text{dB}$	Confidence levels of 95%
Restricted Frequency Bands	$\pm 5\%$	Confidence levels of 95%
Radiated Emission	$\pm 2.95\text{dB}$	Confidence levels of 95%
Conducted Emission	$\pm 2.44\text{dB}$	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525
FCC Designation Number:	CN1192
FCC Test Firm Registration Number:	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	FJ Dynamics Co.,Ltd.
Applicant Address:	21F, Das Tower, No. 28, 1st South Keji Road, Nanshan District , Shenzhen, China
Manufacturer:	FJ Dynamics Co.,Ltd.
Manufacturer Address:	21F, Das Tower, No. 28, 1st South Keji Road, Nanshan District , Shenzhen, China

2.2. Information of EUT

Product Name:	LiDAR Scanner	
Sample No.:	1#, 2#, 5#	
Hardware Version:	V1.0	
Software Version:	V1.1	
Equipment Type:	Bluetooth LE	
Bluetooth Version:	5.0	
Modulation Type:	GFSK	
Data Rate:	1Mbps, 2Mbps	
Operating Frequency Range:	2402MHz-2480MHz	
Antenna Type:	FPC Antenna	
Antenna Gain:	5.53dBi	
Accessory Information:	Battery	
	Brand Name:	FJD Trion
	Model No.:	BP0030-3
	Serial No.:	N/A
	Capacity:	3000mAh
	Rated Voltage:	10.8V
	Charge Limit:	12.6V
	Manufacturer:	FJ Dynamics Technology (Fujian) Co., Ltd.



Accessory Information:	AC Adapter	
	Brand Name:	Huizhou Fujia
	Model No.:	FJ-GN265C87N
	Serial No.:	N/A
	Rated Output:	5V $\overline{\sim}$ 3A; 9V $\overline{\sim}$ 3A; 12V $\overline{\sim}$ 3A; 15V $\overline{\sim}$ 3A; 20V $\overline{\sim}$ 3.25A
	Rated Input:	100-240V $\sim$ 50/60Hz, 1.5A
	Manufacturer:	Huizhou Fujia Appliance Tech. Co.,Ltd.

Note 1: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



2.3.Channel List of EUT

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

Note 1: The black bold channels were selected for test.

2.4. Test Configuration of EUT

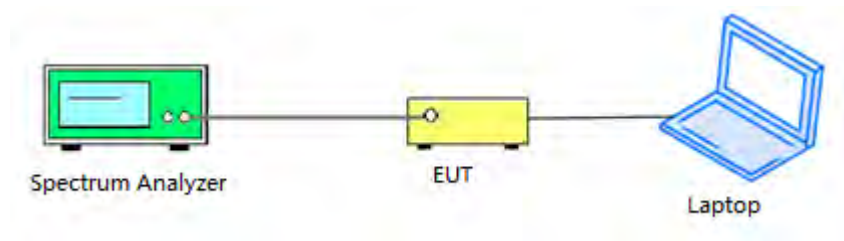
Test mode is used to control the EUT under the maximum power level during test.

2.5. Test Conditions

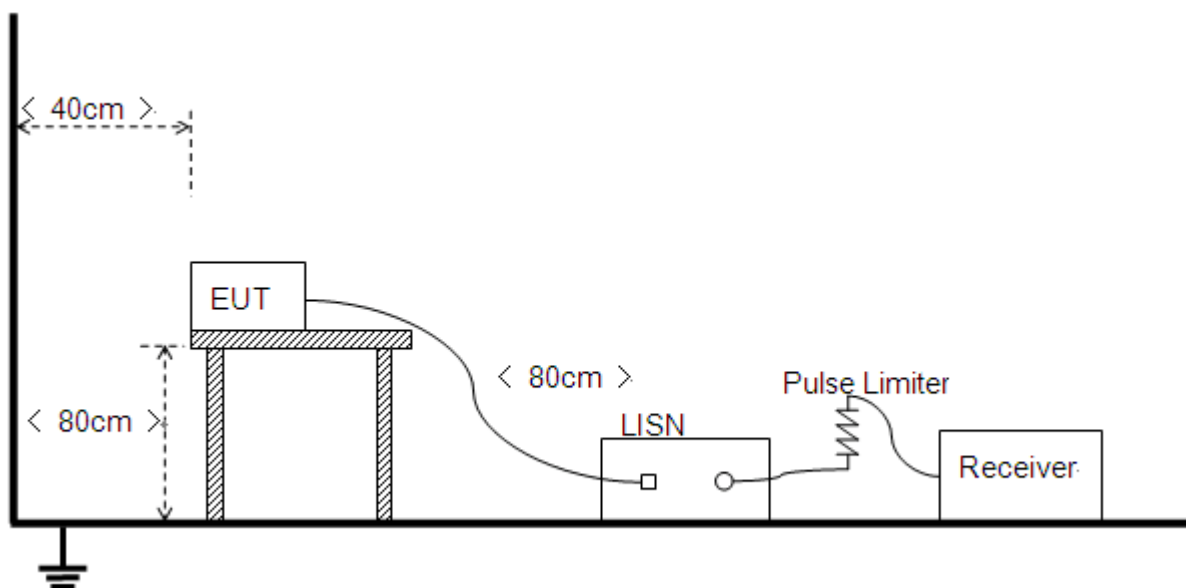
Temperature (°C):	15–35
Relative Humidity (%):	30–60
Atmospheric Pressure (kPa):	86–106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

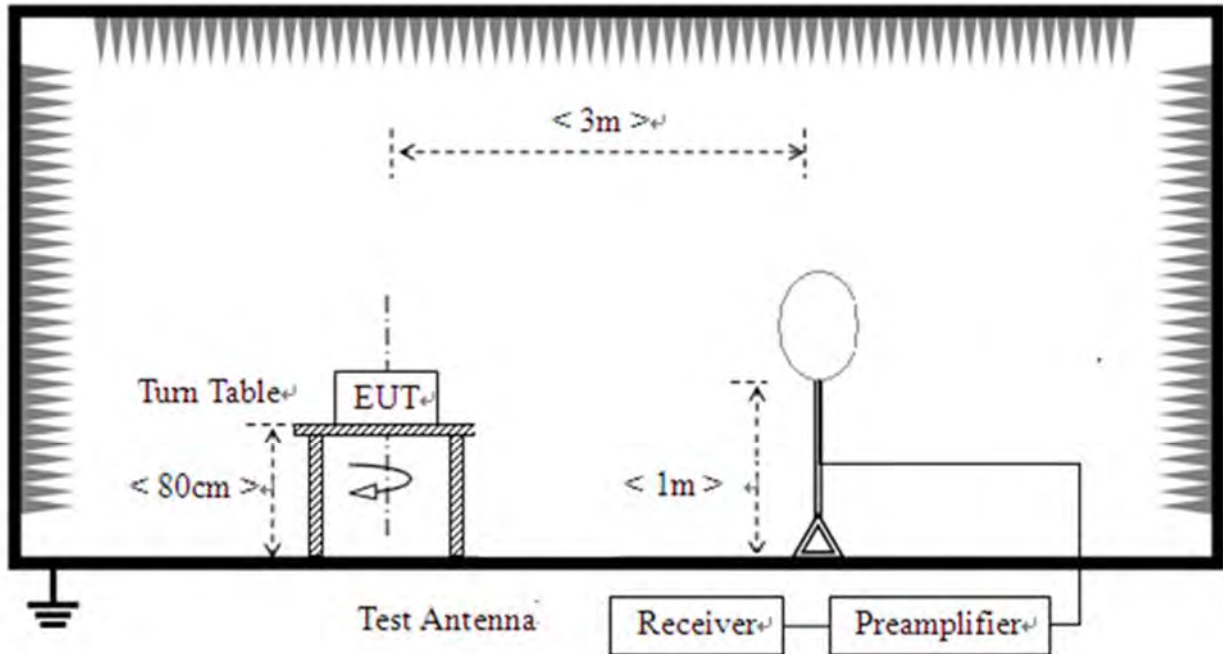


2.6.2. Conducted Emission Measurement

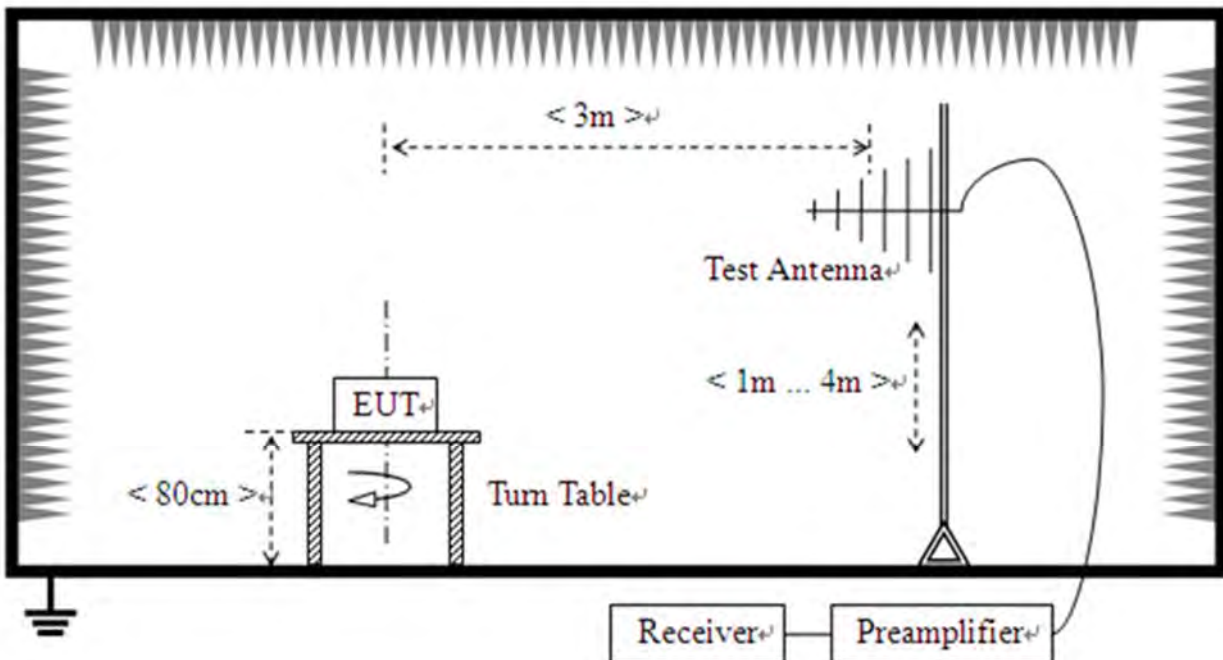


2.6.3.Radiation Measurement

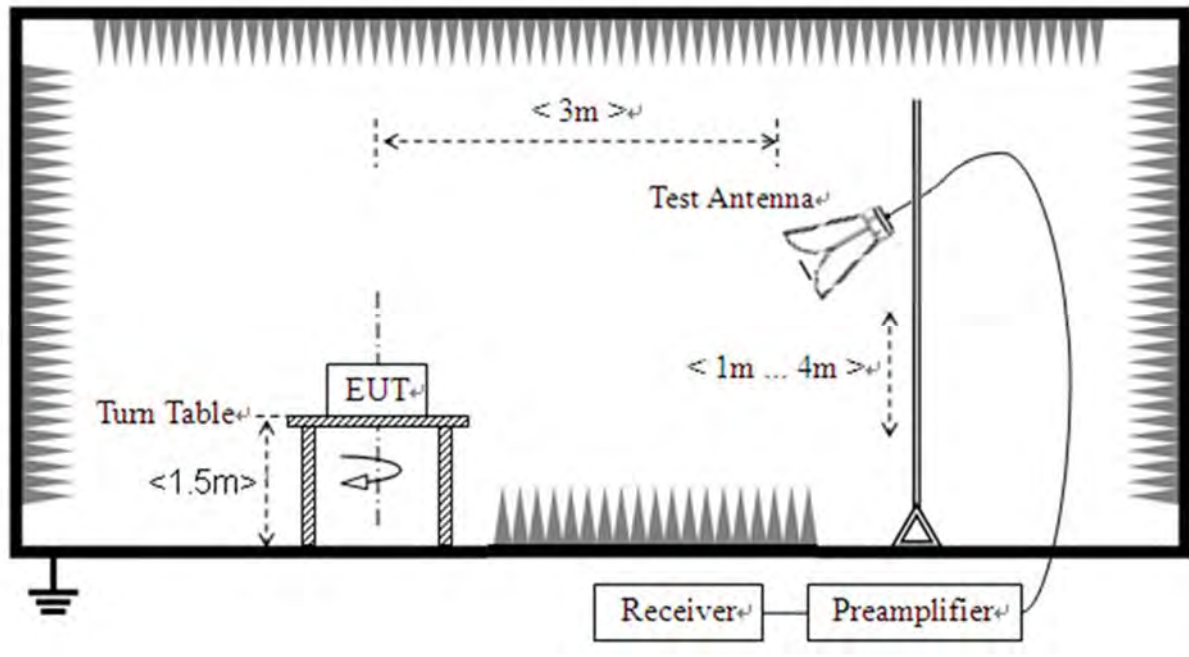
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz





3. Test Results

3.1. Antenna Requirement

3.1.1. Requirement

According 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.

3.1.2. Test Result

Antenna location	Antenna Type	Coupling Method
☒ Internal ☐ External	☒ FPC Antenna ☐ Spring Antenna ☐ Ceramic Antenna ☐ Integrated Antenna ☐ Dipole Antenna ☐ PCB Antenna ☐ PIFA Antenna	☒ I-PEX Connector ☐ SMA Connector ☐ RP-SMA Connector ☐ Metal Shrapnel ☐ Layout



3.2. Duty Cycle of Test Signal

3.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration(T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e.,no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be non constant.

3.2.2. Test Result

Refer to Annex A.1 in this report.



3.3. Maximum Peak Conducted Output Power

3.3.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

3.3.2. Test Procedures

KDB 558074 Section 8.3.1 was used in order to prove compliance.

3.3.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4. Test Result

Refer to Annex A.2 in this report.



3.4. Maximum Average Conducted Output Power

3.4.1. Requirement

According to FCC section 15.247(b)(3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum average conducted output power of the intentional radiator shall not exceed 1 Watt.

3.4.2. Test Procedures

KDB 558074 Section 8.3.2 was used in order to prove compliance.

3.4.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.4. Test Result

Refer to Annex A.3 in this report.



3.5.6 dB Bandwidth

3.5.1.Requirement

According to FCC section 15.247(a) (2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

3.5.1.Test Procedures

The steps for the first option are as follows:

- a) Set analyzer center frequency to channel center frequency
- b) Set RBW to 100kHz
- c) Set VBW to 300kHz
- d) Detector = peak.
- e) Trace mode = max hold
- f) Sweep time = auto couple
- g) Allow the trace to fully stabilize
- h) 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

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., $RBW = 100\text{ kHz}$, $VBW \geq 3 \times RBW$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq 6\text{ dB}$.

3.5.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.3.Test Result

Refer to Annex A.4 in this report.



3.6. Conducted Spurious Emissions and Band Edge

3.6.1. Requirement

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

3.6.2. Test Procedures

KDB 558074 Section 8.5 and 8.7 was used in order to prove compliance.

3.6.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.6.4. Test Result

Refer to Annex A.5 and A.6 in this report.



3.7. Power Spectral Density

3.7.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

3.7.2. Test Procedures

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

- a) Set analyzer center frequency to channel center frequency
- b) Set span to 1.5 times DTS
- c) Set RBW to 3kHz
- d) Set VBW to 10kHz
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level within the RBW

3.7.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.7.4. Test Result

Refer to Annex A.7 in this report.

3.8. Conducted Emission

3.8.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.8.2. Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10.

3.8.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.8.4. Test Result

Refer to Annex A.8 in this report.

3.9. Restricted Frequency Bands

3.9.1. Requirement

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, 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).

3.9.2. Test Procedures

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

3.9.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4. Test Result

Refer to Annex A.9 in this report.

3.10. Radiated Emission

3.10.1.Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2:For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).



3.10.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.10.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.10.4.Test Result

Refer to Annex A.10 in this report.



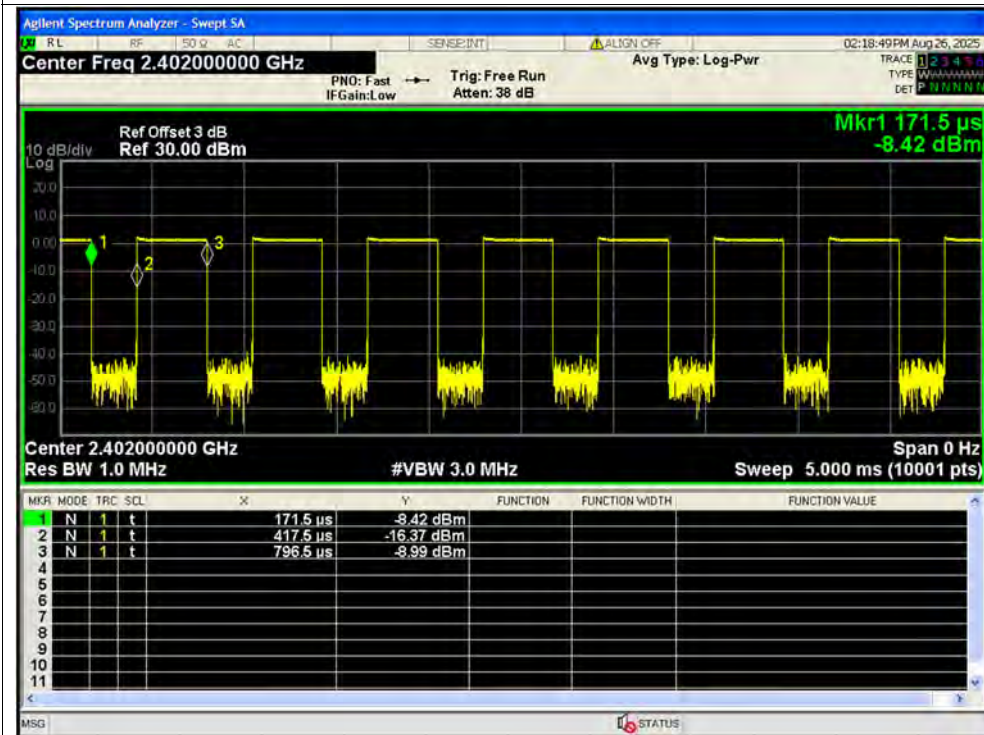
Annex A Test Data and Result

A.1. Duty Cycle of Test Signal

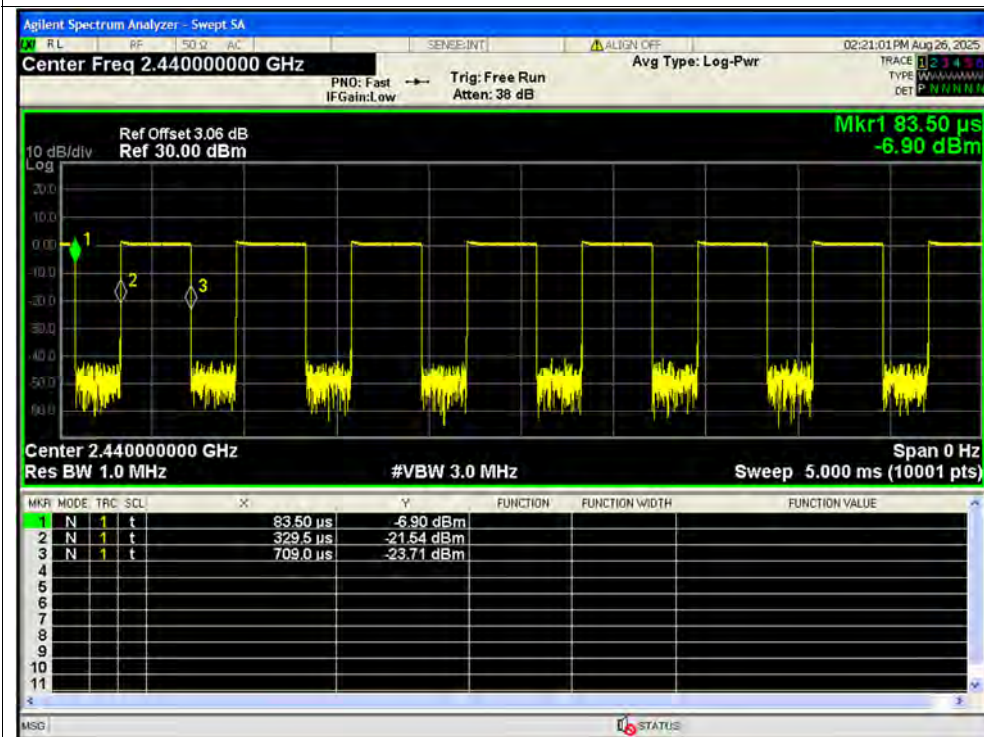
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	60.64	2.17	2.64
NVNT	BLE 1M	2440	Ant1	60.67	2.17	2.64
NVNT	BLE 1M	2480	Ant1	60.64	2.17	2.64
NVNT	BLE 2M	2402	Ant1	31.14	5.07	5.14
NVNT	BLE 2M	2440	Ant1	31.2	5.06	5.13
NVNT	BLE 2M	2480	Ant1	31.12	5.07	5.14

Test Graphs

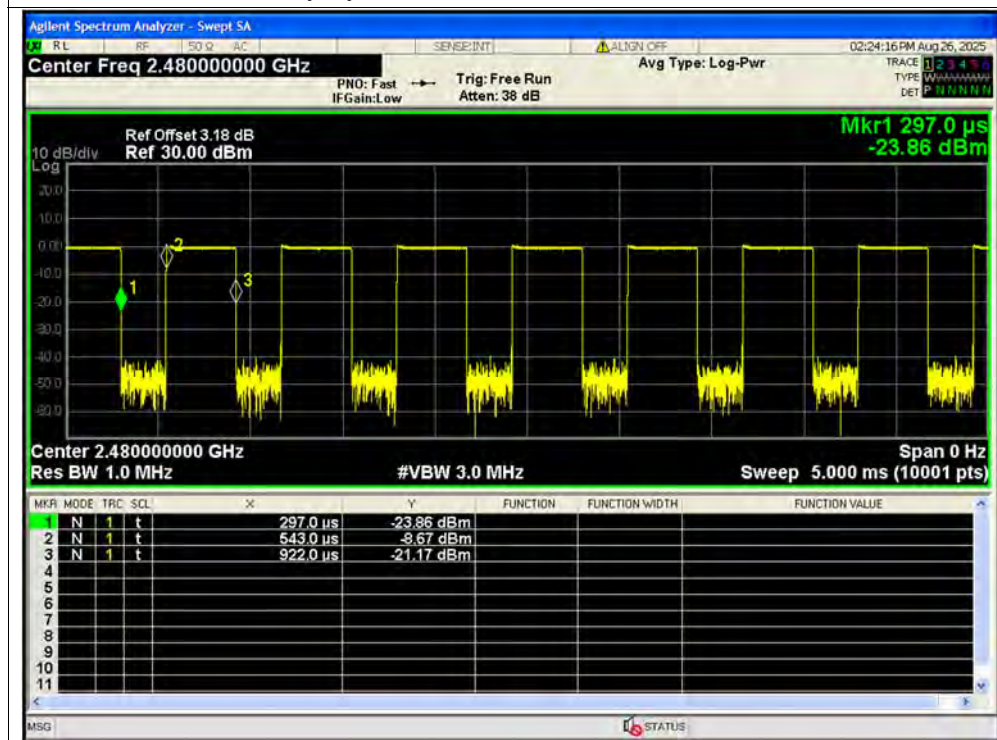
Duty Cycle NVNT BLE 1M 2402MHz Ant1



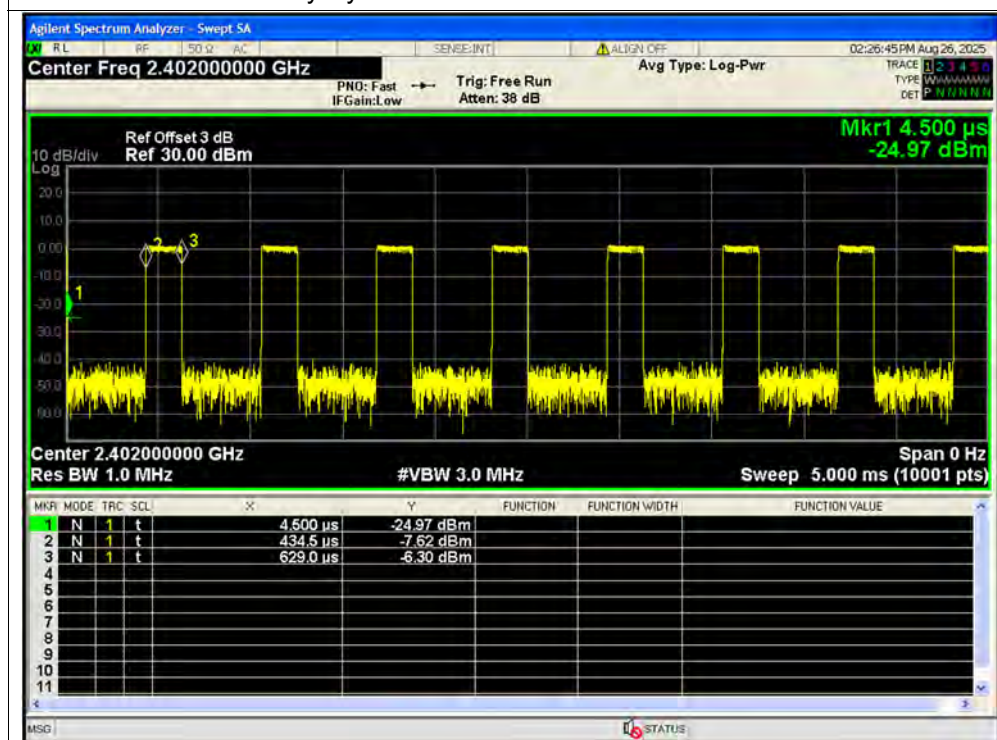
Duty Cycle NVNT BLE 1M 2440MHz Ant1



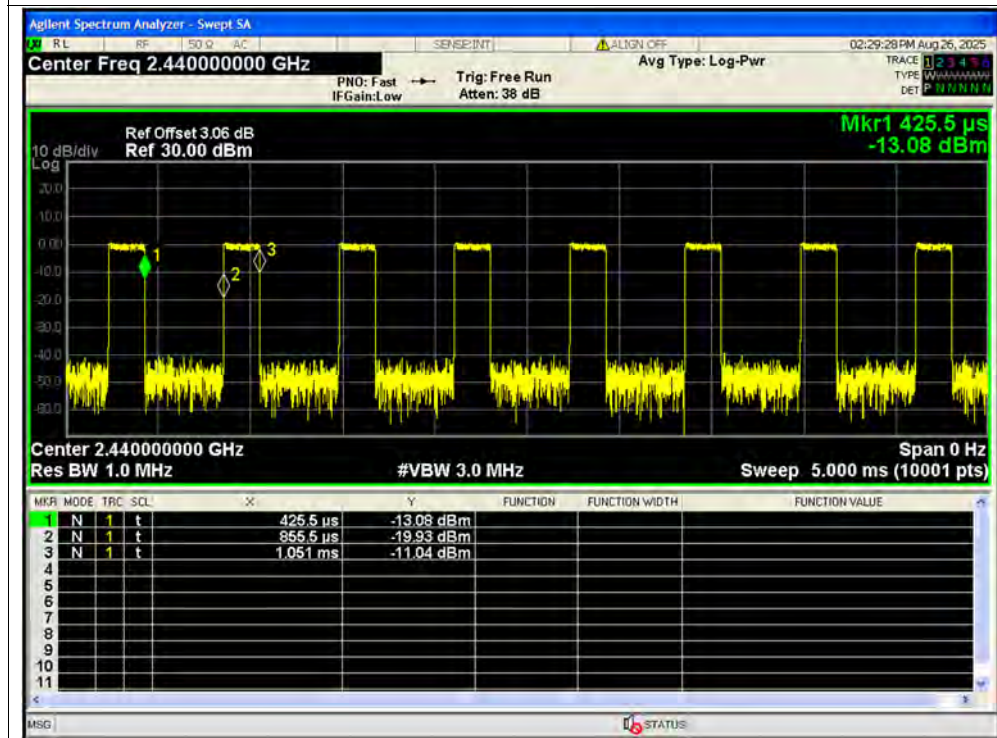
Duty Cycle NVNT BLE 1M 2480MHz Ant1



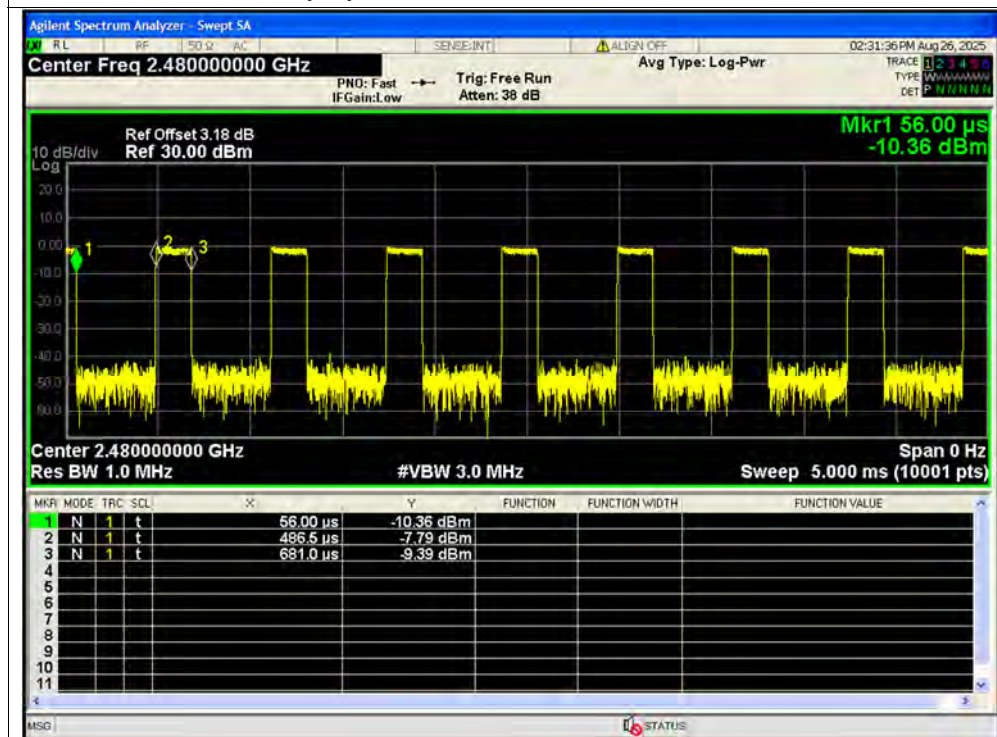
Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



**A.2. Maximum Peak Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.5	0	2.5	0.00178	30	Pass
NVNT	BLE 1M	2440	Ant1	1.83	0	1.83	0.00152	30	Pass
NVNT	BLE 1M	2480	Ant1	0.72	0	0.72	0.00118	30	Pass
NVNT	BLE 2M	2402	Ant1	2.54	0	2.54	0.00179	30	Pass
NVNT	BLE 2M	2440	Ant1	1.86	0	1.86	0.00153	30	Pass
NVNT	BLE 2M	2480	Ant1	0.79	0	0.79	0.0012	30	Pass

Test Graphs

Peak Power NVNT BLE 1M 2402MHz Ant1



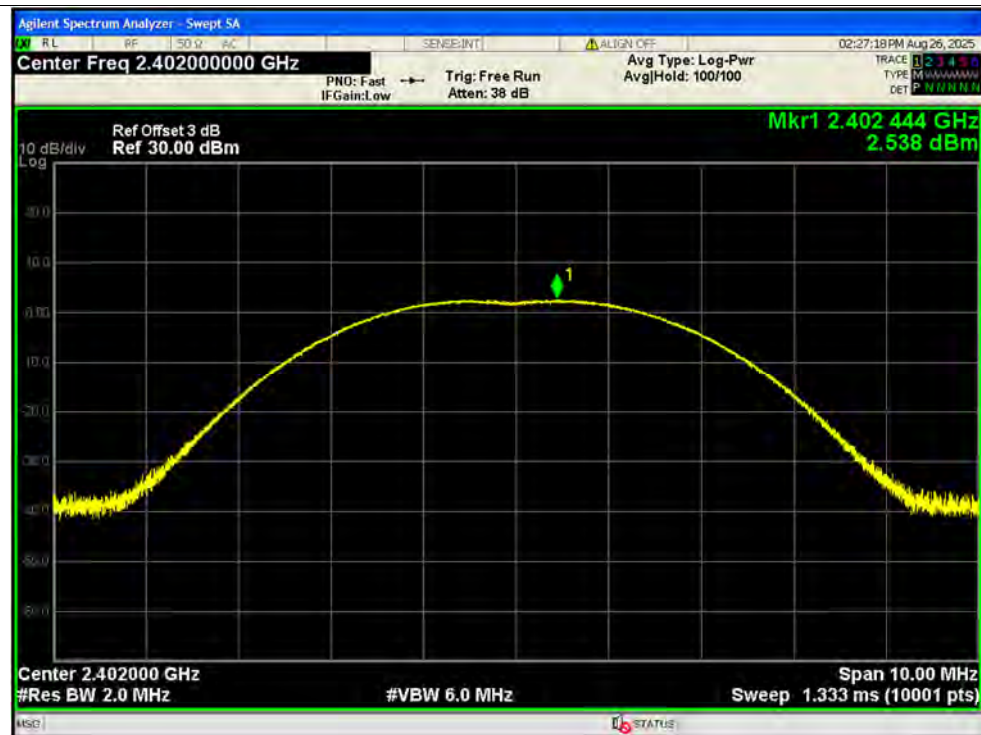
Peak Power NVNT BLE 1M 2440MHz Ant1



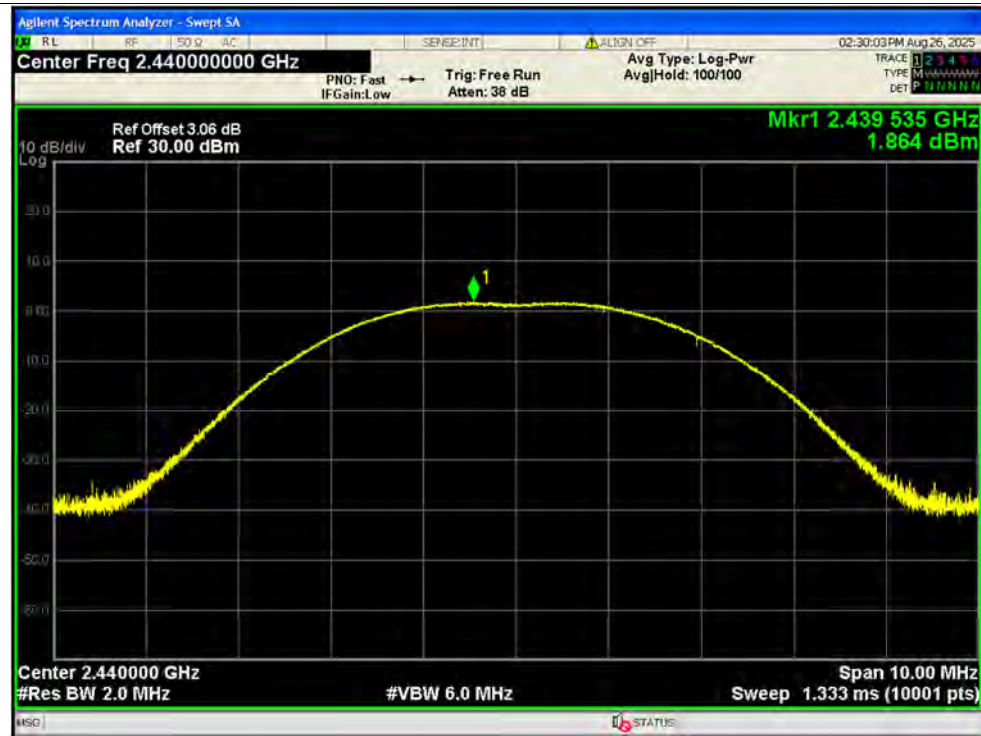
Peak Power NVNT BLE 1M 2480MHz Ant1



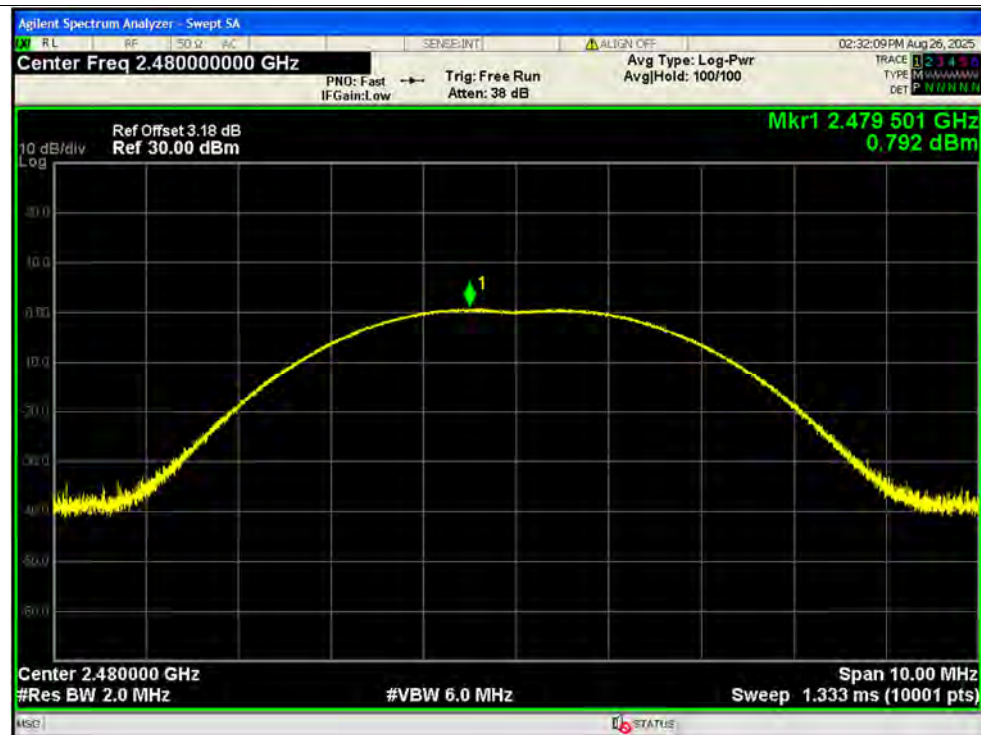
Peak Power NVNT BLE 2M 2402MHz Ant1



Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2480MHz Ant1



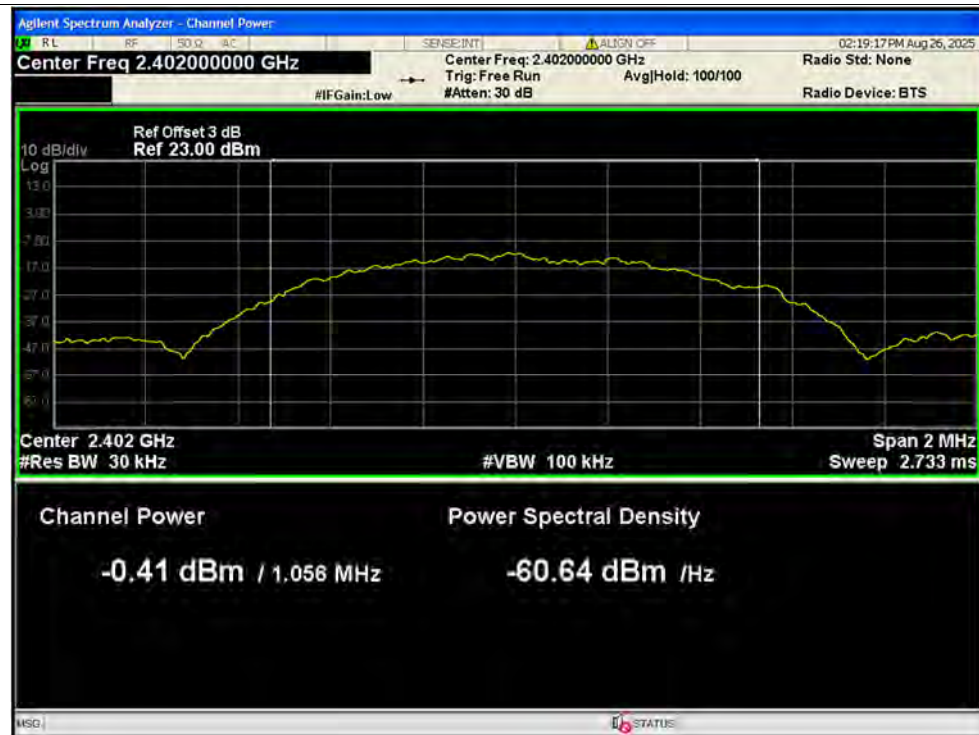
**A.3. Maximum Average Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.41	2.17	1.76	0.0015	30	Pass
NVNT	BLE 1M	2440	Ant1	-1.14	2.17	1.03	0.00127	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.36	2.17	-0.19	0.00096	30	Pass
NVNT	BLE 2M	2402	Ant1	-3.43	5.07	1.64	0.00146	30	Pass
NVNT	BLE 2M	2440	Ant1	-4.32	5.06	0.74	0.00119	30	Pass
NVNT	BLE 2M	2480	Ant1	-5.39	5.07	-0.32	0.00093	30	Pass



Test Graphs

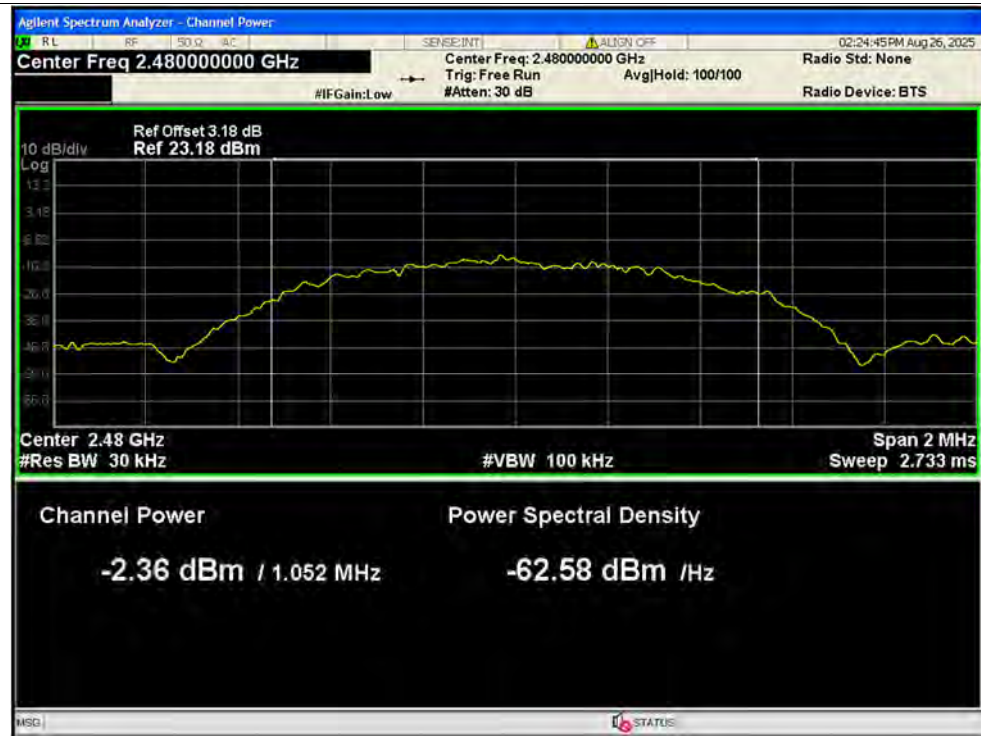
Average Power NVNT BLE 1M 2402MHz Ant1



Average Power NVNT BLE 1M 2440MHz Ant1



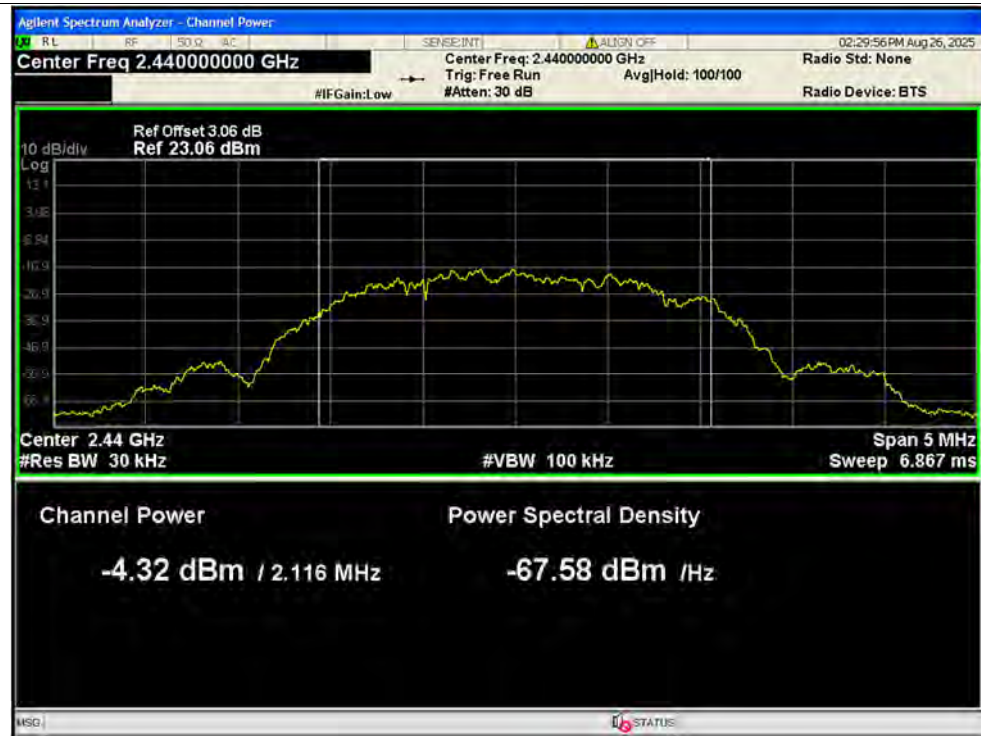
Average Power NVNT BLE 1M 2480MHz Ant1



Average Power NVNT BLE 2M 2402MHz Ant1



Average Power NVNT BLE 2M 2440MHz Ant1



Average Power NVNT BLE 2M 2480MHz Ant1



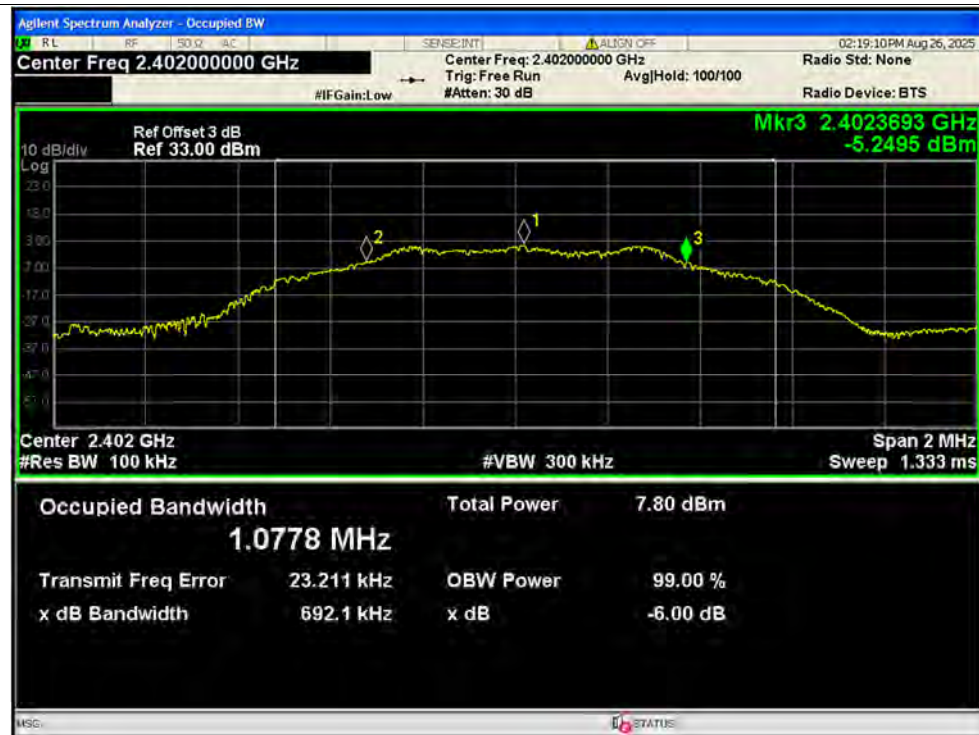
**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6921	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6775	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6837	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.347	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.318	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.371	0.5	Pass



Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



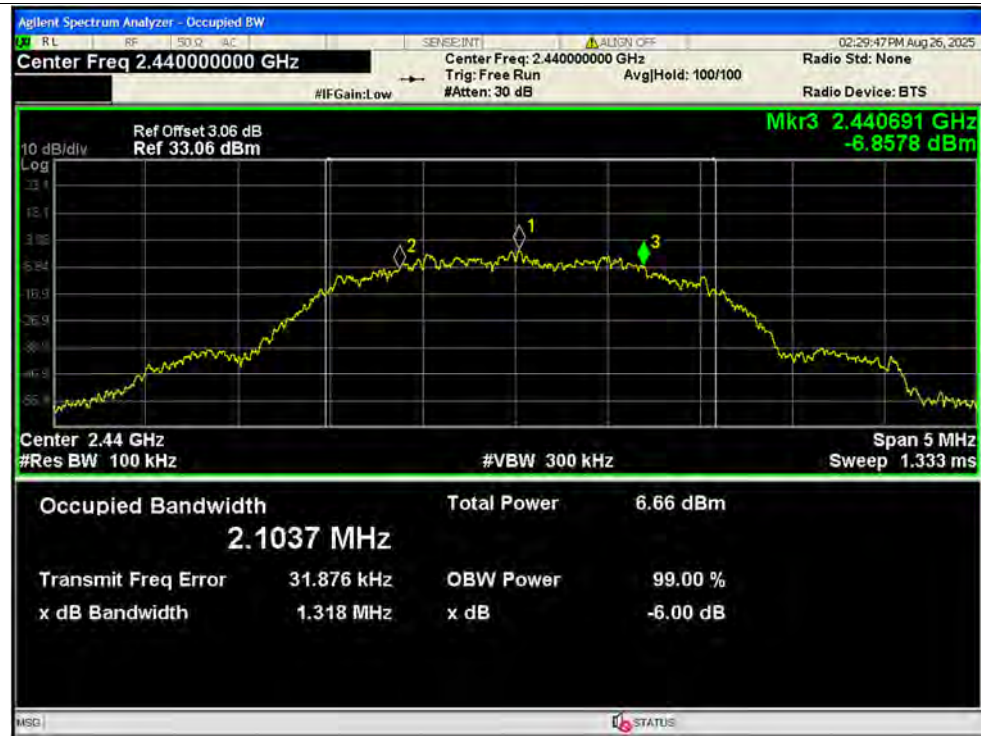
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



**A.5. Conducted Spurious Emissions**

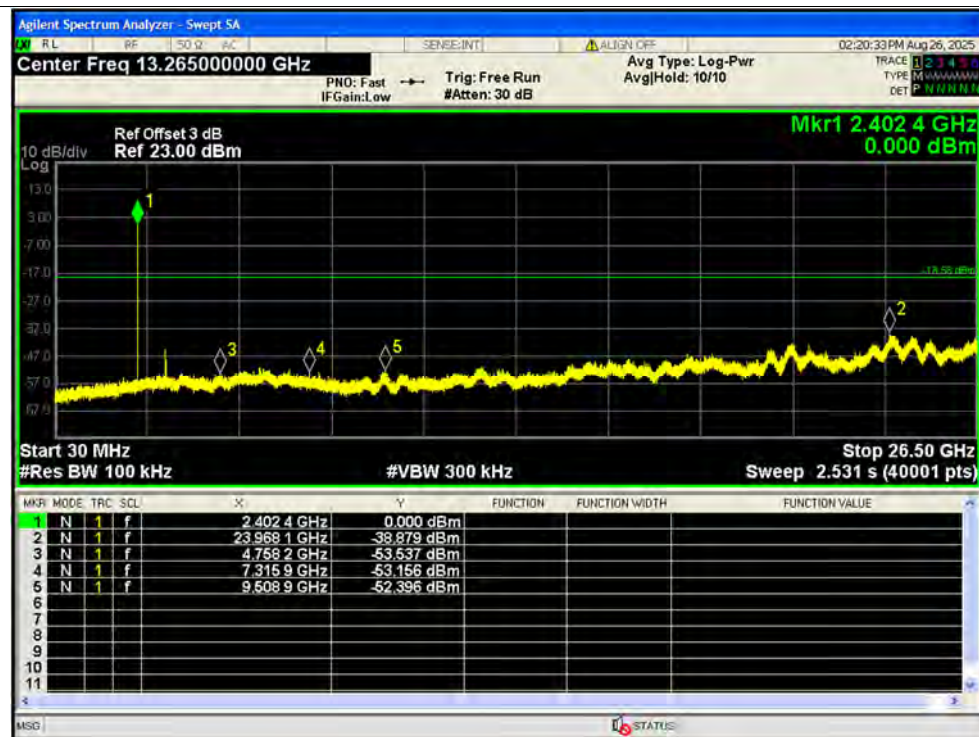
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-40.29	-20	Pass
NVNT	BLE 1M	2440	Ant1	-39.58	-20	Pass
NVNT	BLE 1M	2480	Ant1	-37.95	-20	Pass
NVNT	BLE 2M	2402	Ant1	-38.99	-20	Pass
NVNT	BLE 2M	2440	Ant1	-38.62	-20	Pass
NVNT	BLE 2M	2480	Ant1	-37.62	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



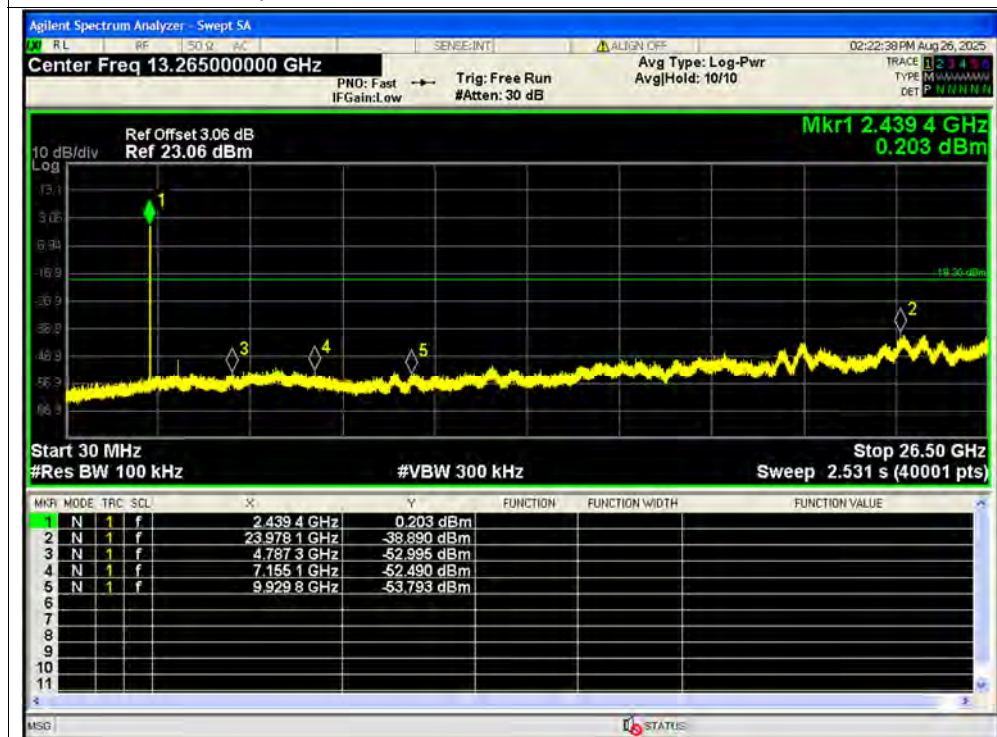
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



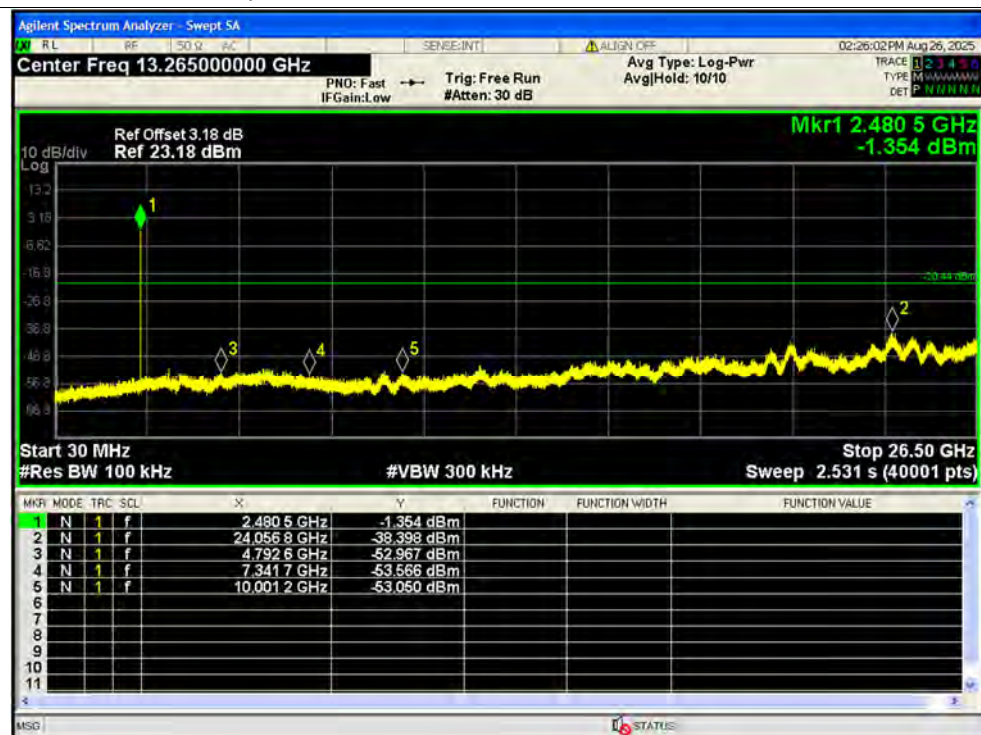
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



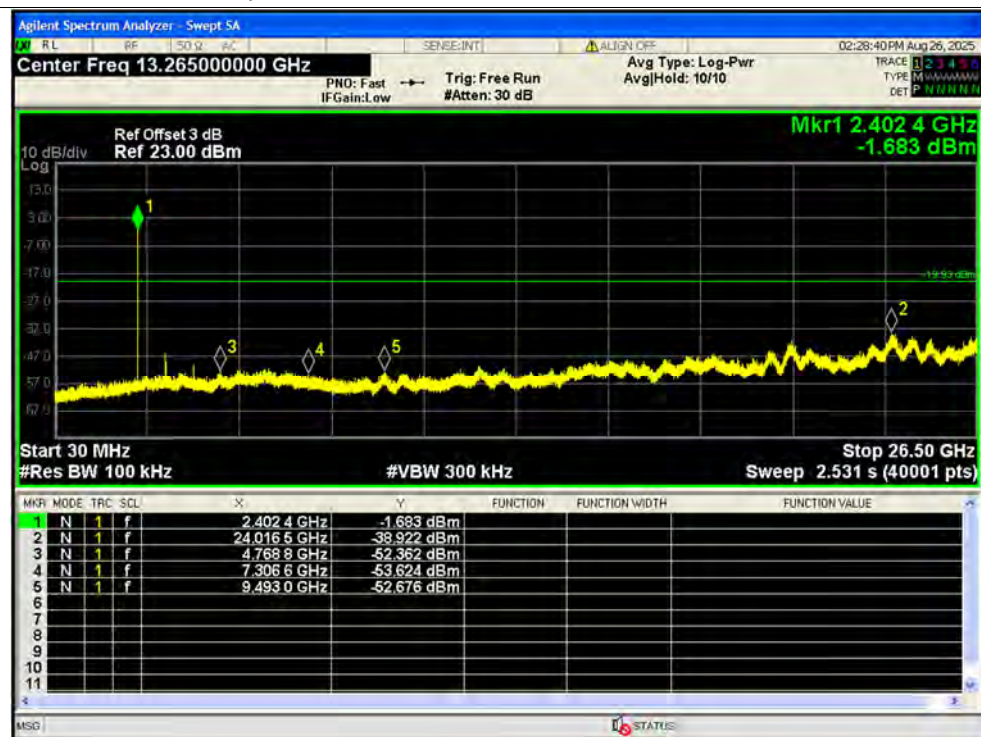
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



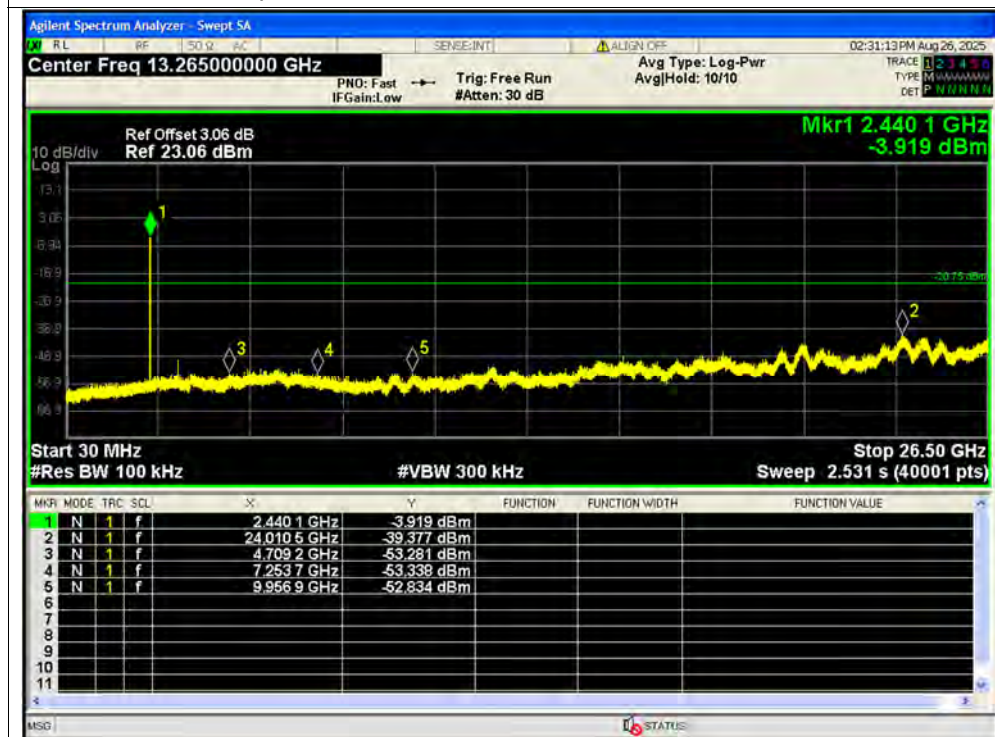
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



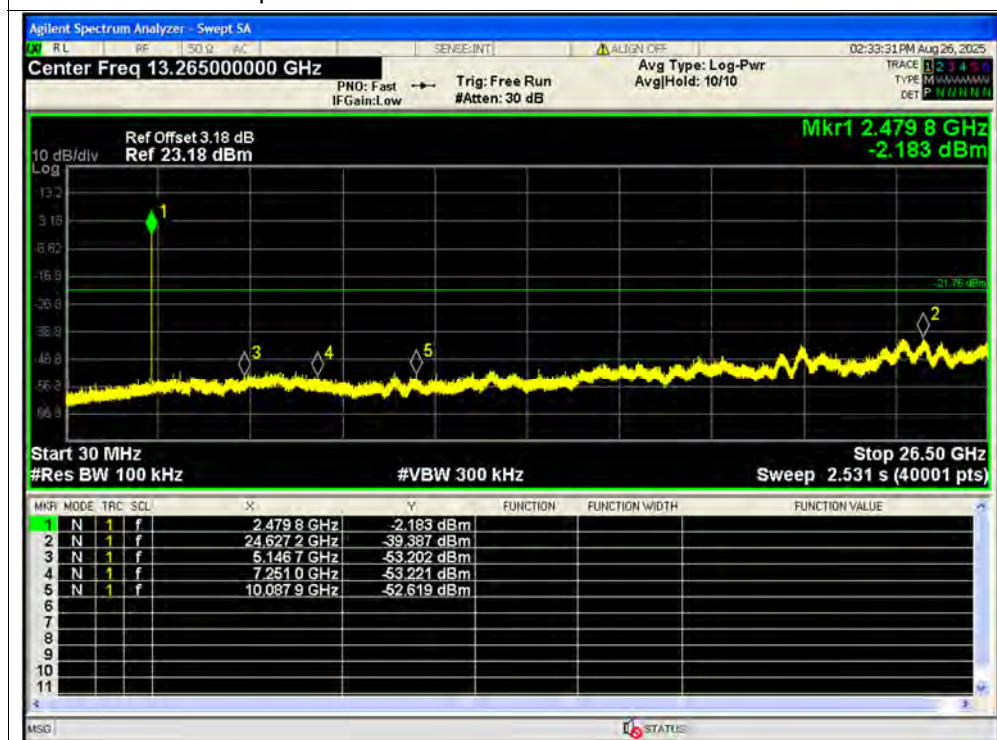
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

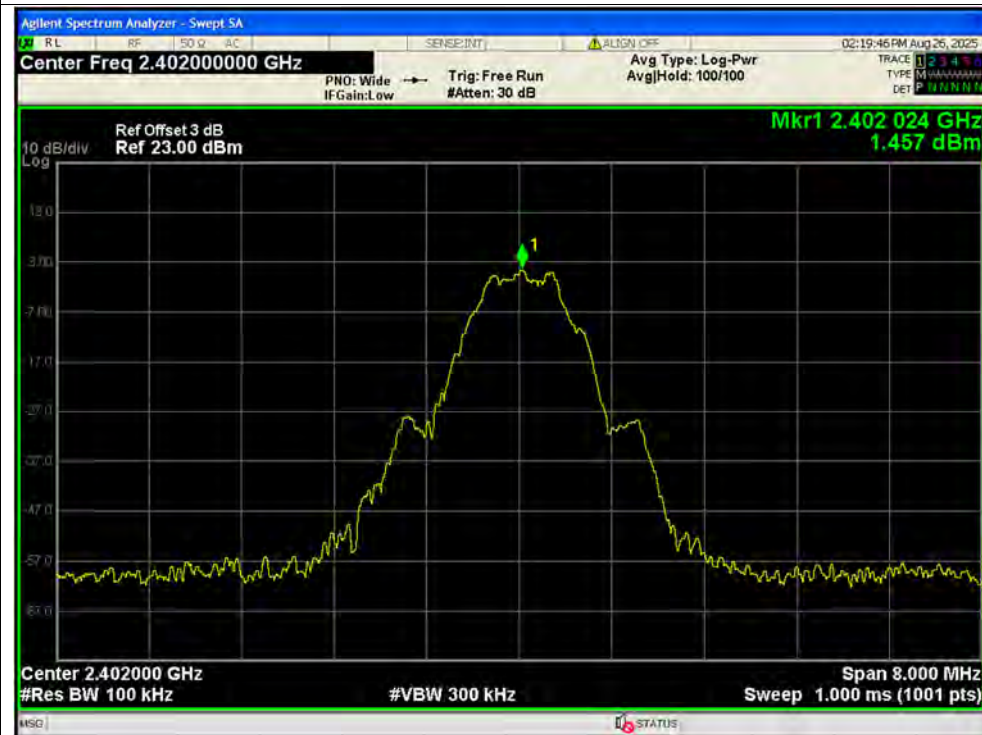


**A.6. Band Edge**

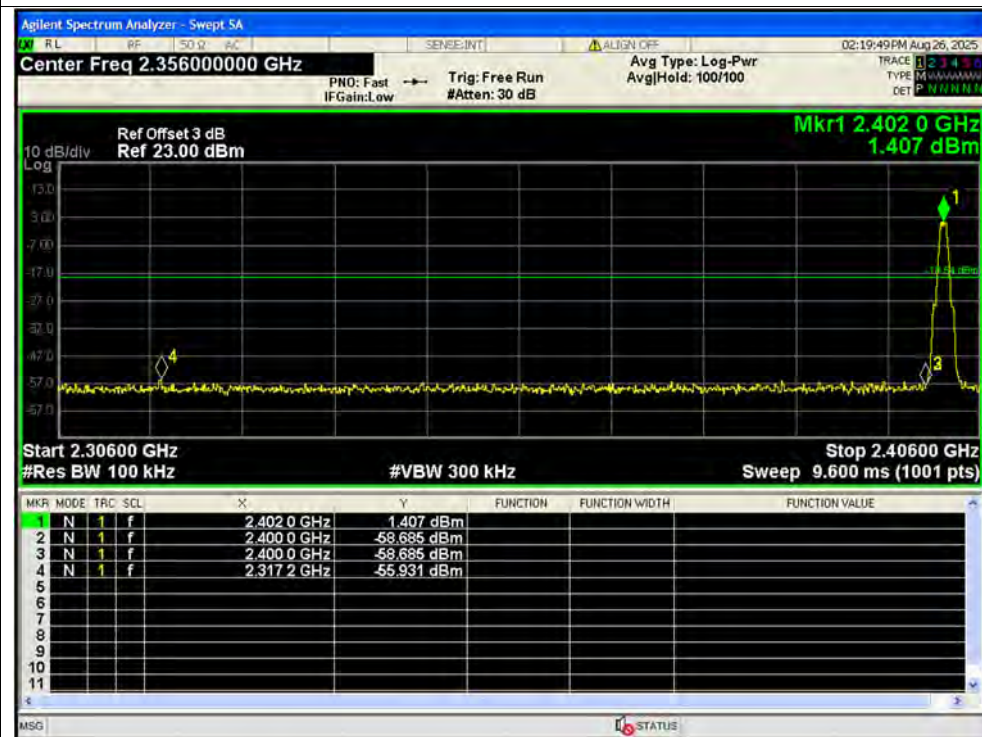
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-57.39	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.44	-20	Pass
NVNT	BLE 2M	2402	Ant1	-42.95	-20	Pass
NVNT	BLE 2M	2480	Ant1	-54.16	-20	Pass

Test Graphs

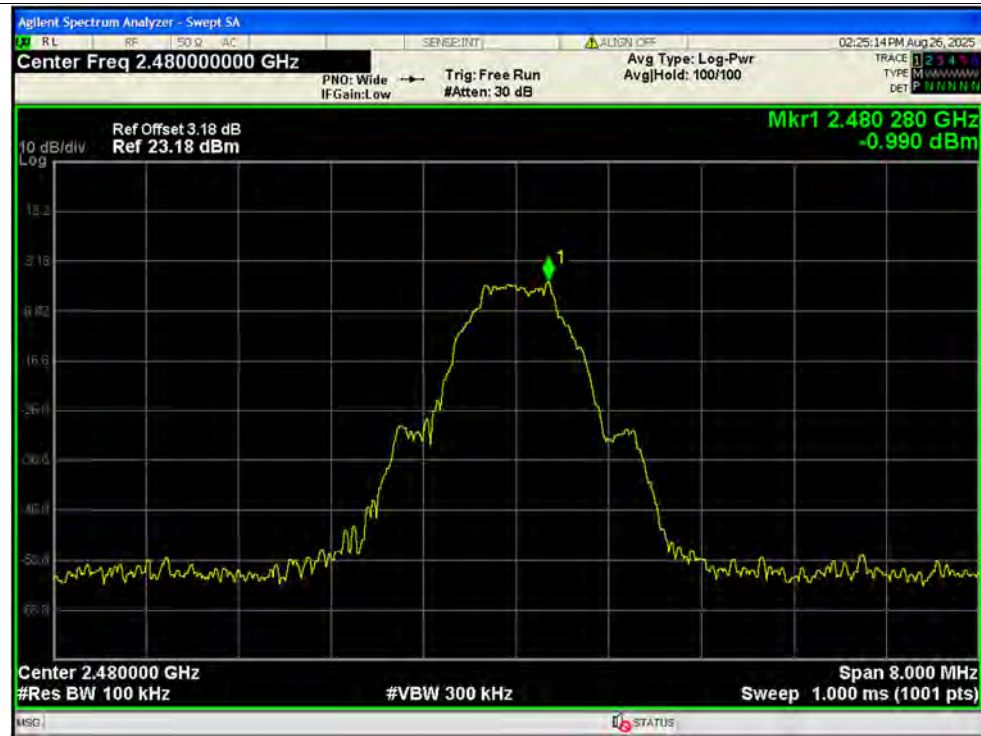
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



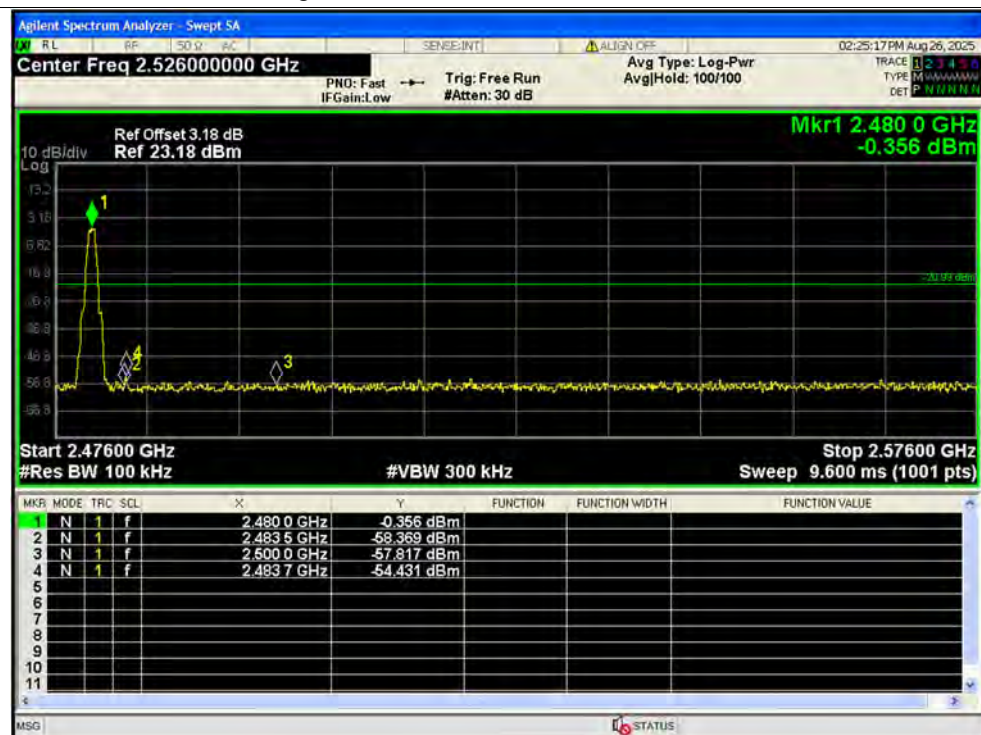
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission

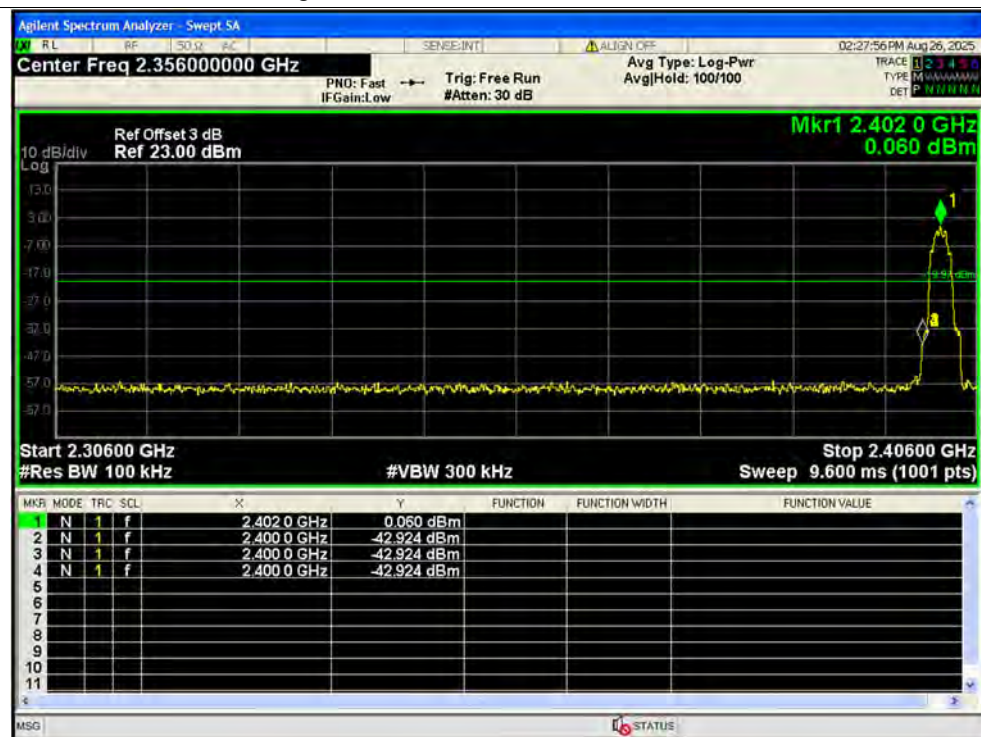




Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



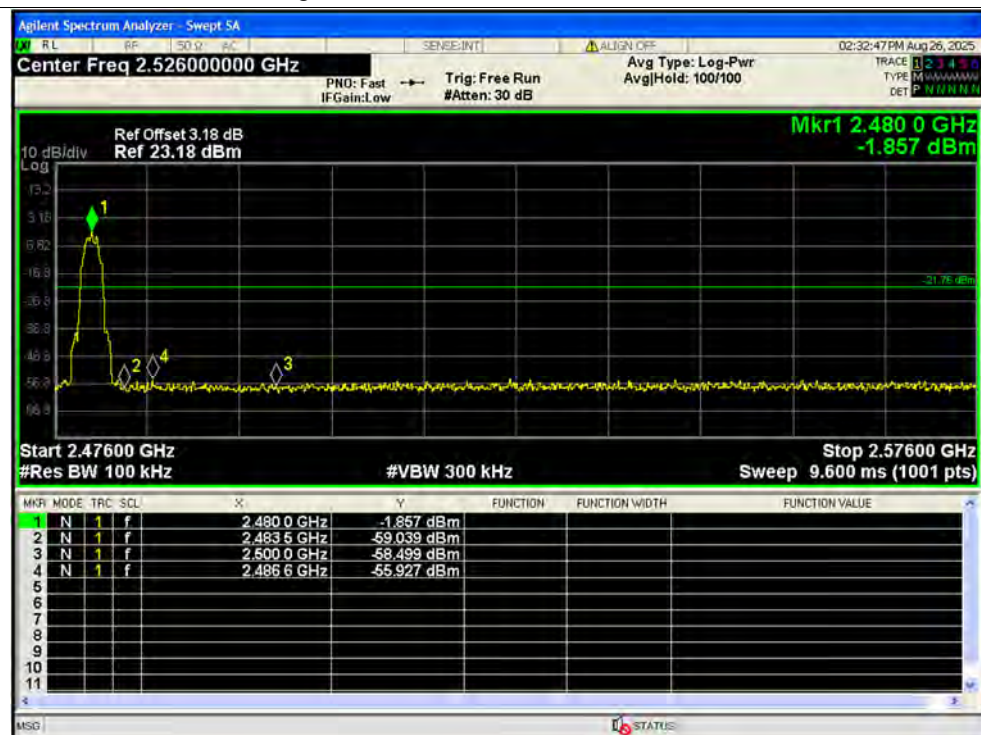
Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



**A.7. Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-13.36	0	-13.36	8	Pass
NVNT	BLE 1M	2440	Ant1	-14.06	0	-14.06	8	Pass
NVNT	BLE 1M	2480	Ant1	-15.16	0	-15.16	8	Pass
NVNT	BLE 2M	2402	Ant1	-16.21	0	-16.21	8	Pass
NVNT	BLE 2M	2440	Ant1	-16.99	0	-16.99	8	Pass
NVNT	BLE 2M	2480	Ant1	-18.04	0	-18.04	8	Pass

Test Graphs

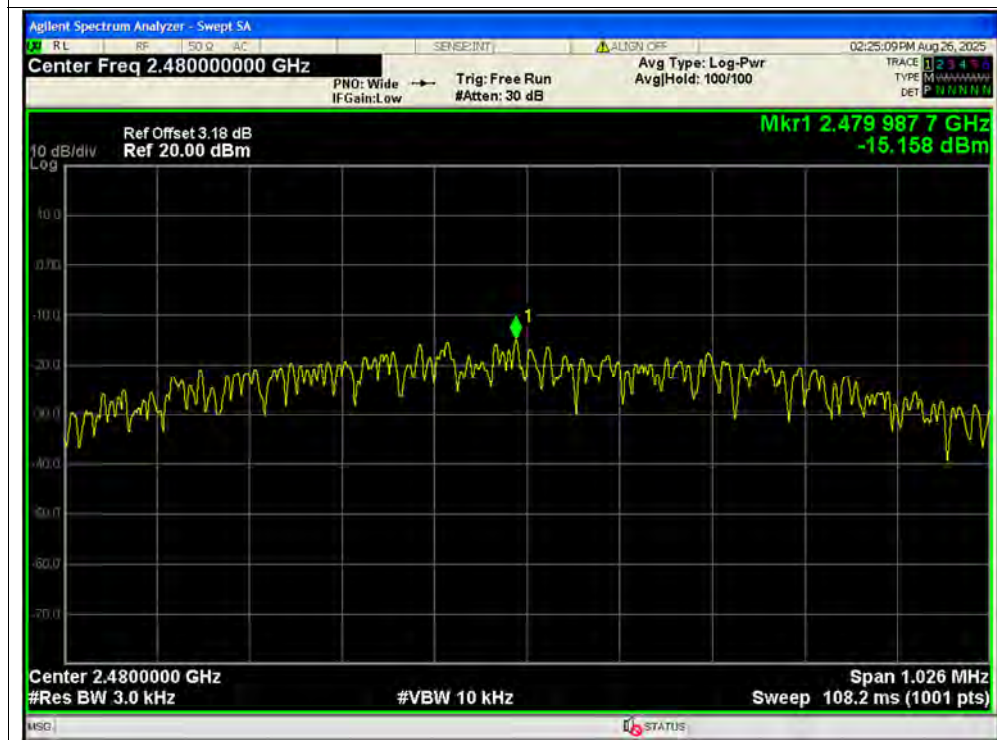
PSD NVNT BLE 1M 2402MHz Ant1



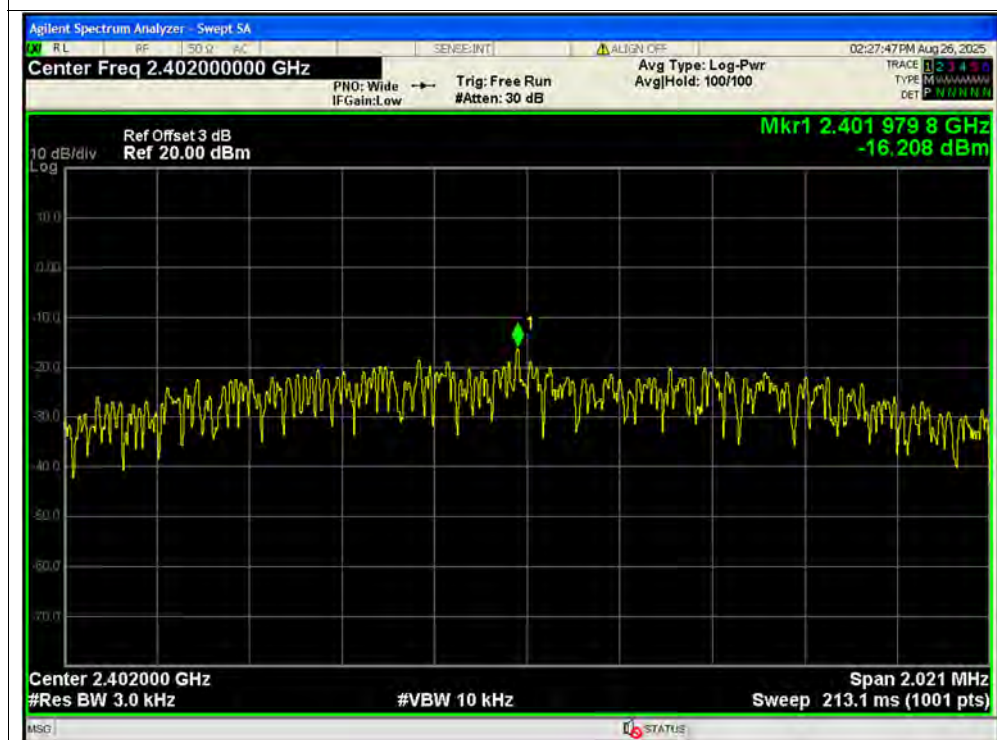
PSD NVNT BLE 1M 2440MHz Ant1



PSD NVNT BLE 1M 2480MHz Ant1

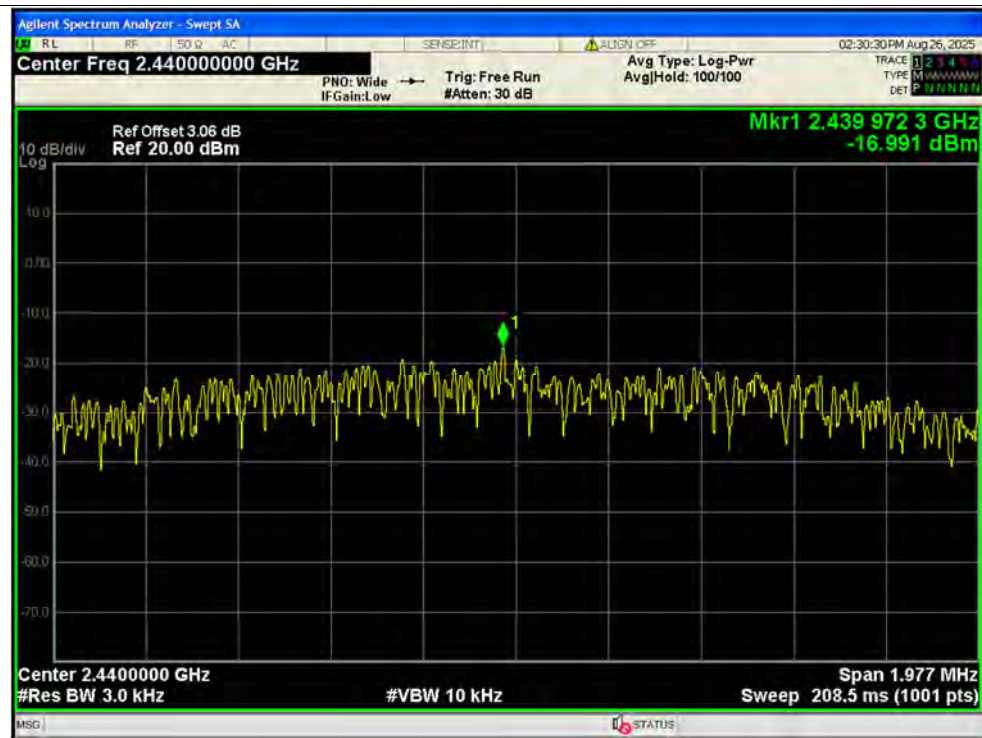


PSD NVNT BLE 2M 2402MHz Ant1

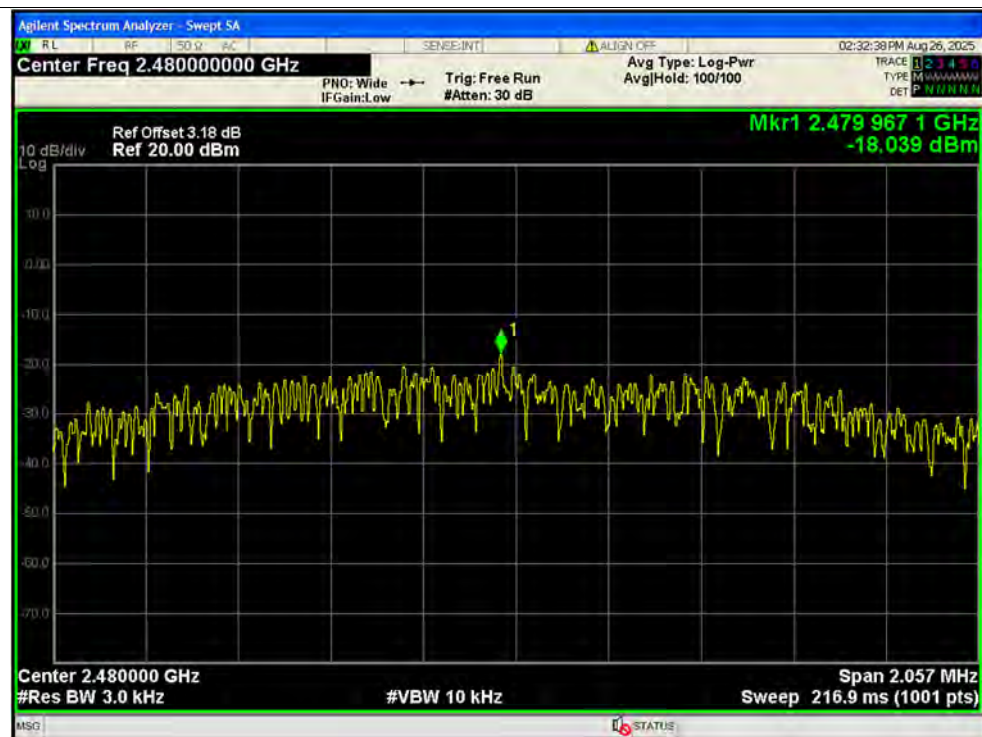




PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1





A.8. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+PC+PC adapter+Data cable+BT TX

Test voltage: AC 120V/60Hz

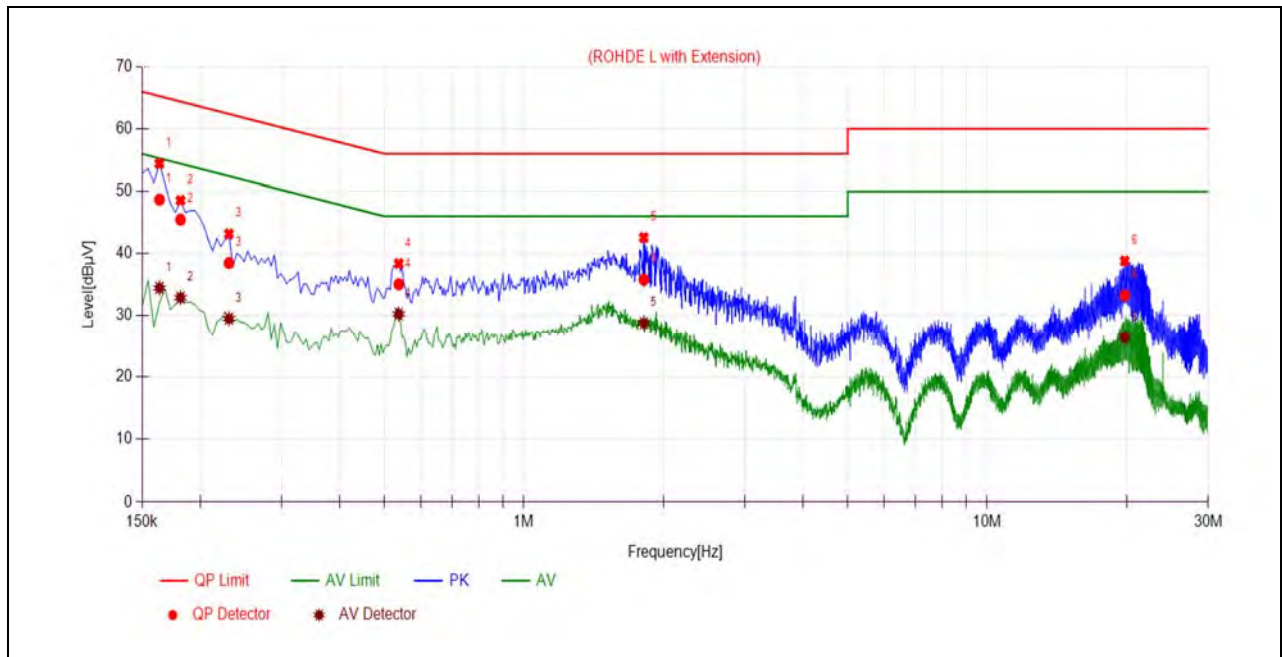
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

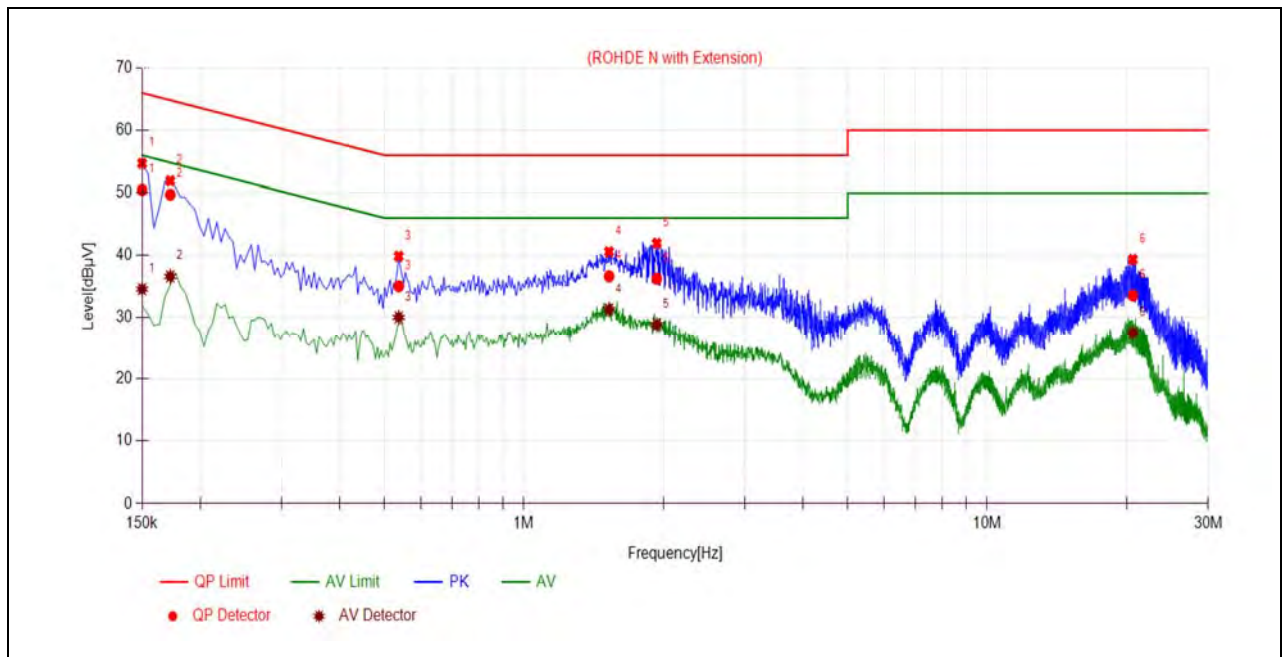
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1635	48.70	34.48	65.28	55.28	Line	PASS
2	0.1815	45.48	32.92	64.42	54.42		PASS
3	0.2310	38.50	29.53	62.41	52.41		PASS
4	0.5370	35.07	30.27	56.00	46.00		PASS
5	1.8151	35.82	28.77	56.00	46.00		PASS
6	19.8125	33.28	26.43	60.00	50.00		PASS



(N Phase)

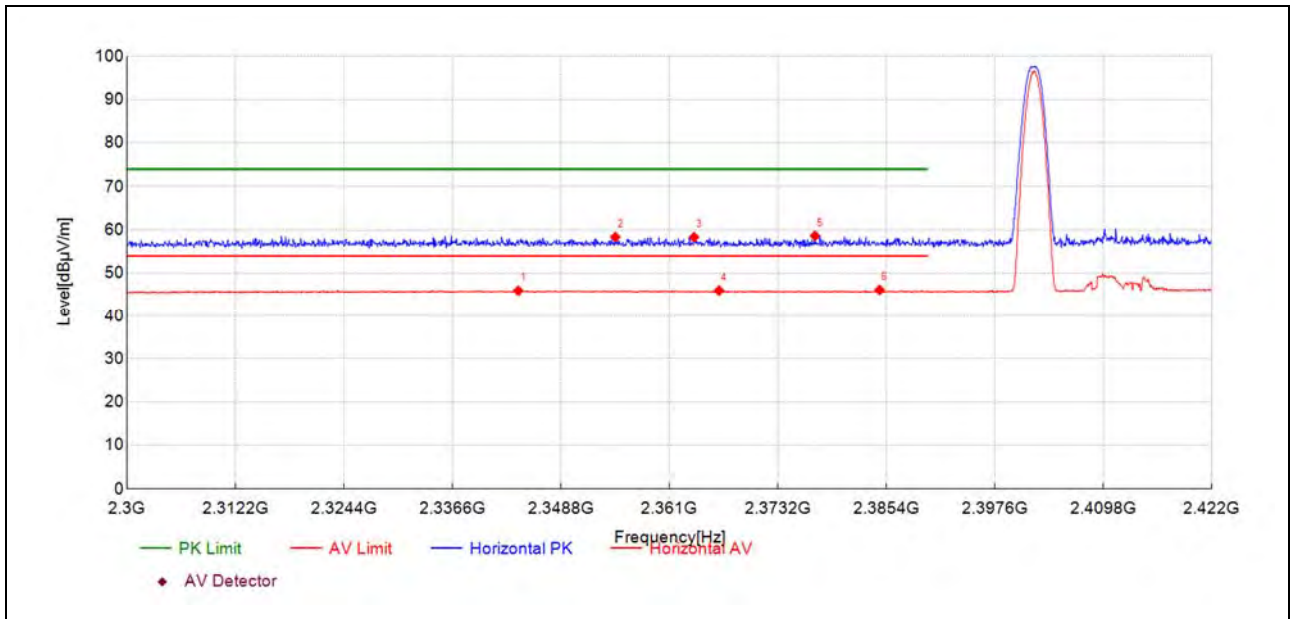
No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	50.46	34.60	66.00	56.00	Neutral	PASS
2	0.1725	49.73	36.64	64.84	54.84		PASS
3	0.5370	35.07	30.06	56.00	46.00		PASS
4	1.5271	36.67	31.33	56.00	46.00		PASS
5	1.9363	36.27	28.85	56.00	46.00		PASS
6	20.6283	33.58	27.51	60.00	50.00		PASS

A.9. Restricted Frequency Bands

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Horizontal) was recorded in this test report.

1Mbps

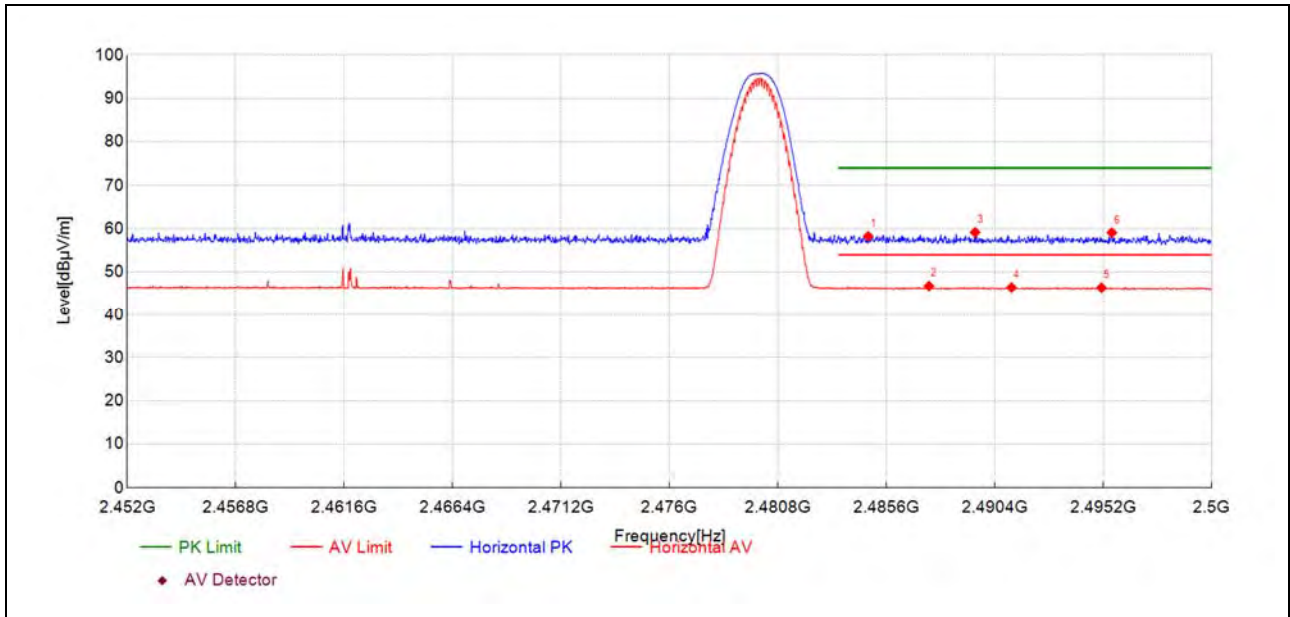
Plot for Channel 0



Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2344.00	8.6	45.95	37.400	54.00	8.05	0	AV	Horizontal	PASS
2354.93	20.9	58.37	37.460	74.00	15.63	211	PK	Horizontal	PASS
2363.78	20.9	58.34	37.470	74.00	15.66	323	PK	Horizontal	PASS
2366.58	8.5	45.98	37.470	54.00	8.02	170	AV	Horizontal	PASS
2377.39	21.2	58.64	37.480	74.00	15.36	8	PK	Horizontal	PASS
2384.65	8.7	46.14	37.490	54.00	7.86	123	AV	Horizontal	PASS



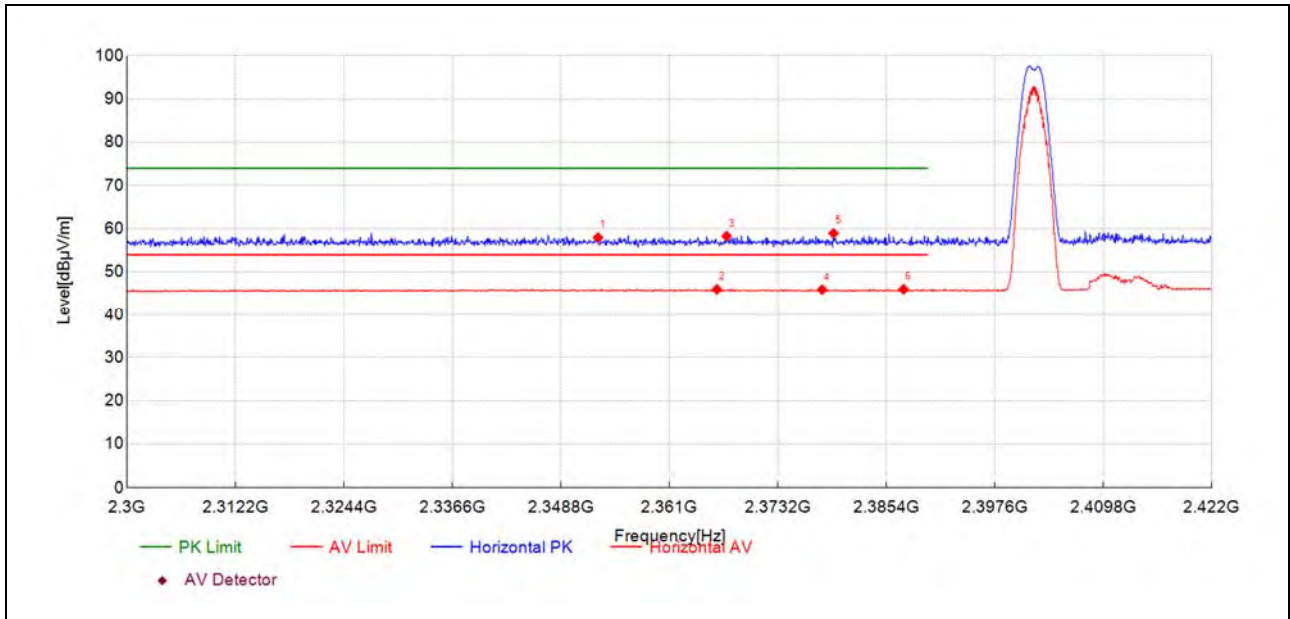
Plot for Channel 39



Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2484.80	20.0	58.28	38.270	74.00	15.72	355	PK	Horizontal	PASS
2487.49	8.5	46.75	38.270	54.00	7.25	31	AV	Horizontal	PASS
2489.53	20.9	59.19	38.260	74.00	14.81	337	PK	Horizontal	PASS
2491.14	8.2	46.43	38.270	54.00	7.57	184	AV	Horizontal	PASS
2495.13	8.1	46.37	38.260	54.00	7.63	227	AV	Horizontal	PASS
2495.58	20.9	59.12	38.260	74.00	14.88	246	PK	Horizontal	PASS

**2Mbps**

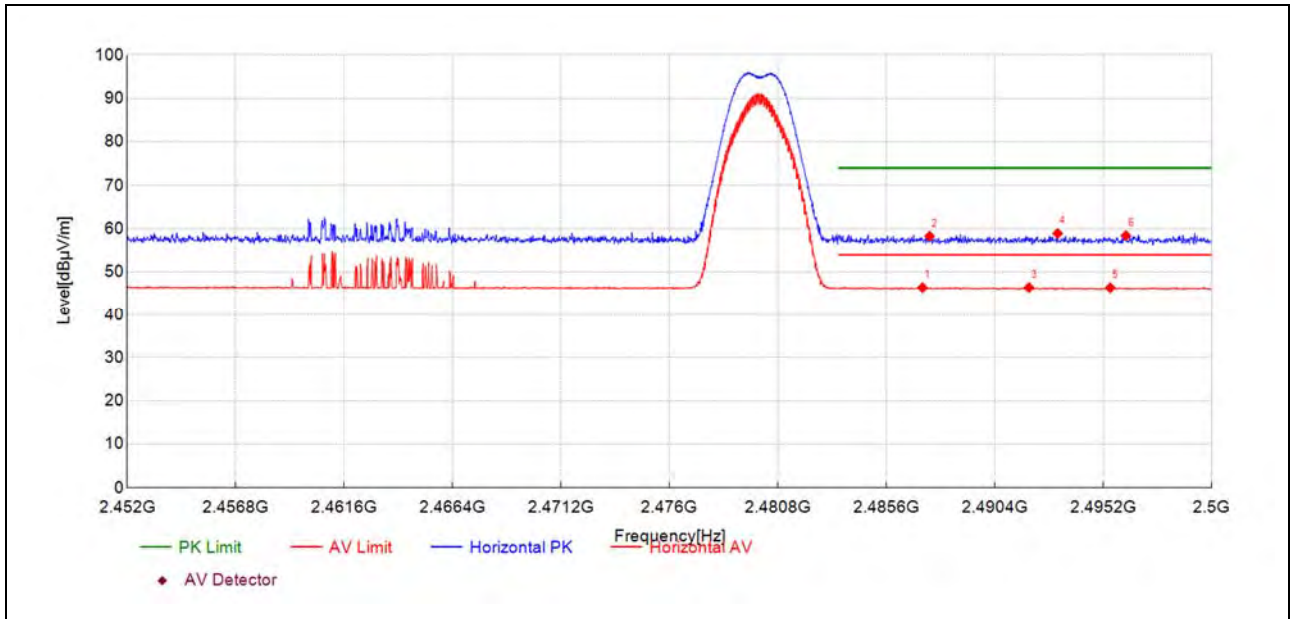
Plot for Channel 0



Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2352.97	20.5	57.97	37.460	74.00	16.03	288	PK	Horizontal	PASS
2366.34	8.5	45.97	37.470	54.00	8.03	354	AV	Horizontal	PASS
2367.44	20.8	58.30	37.470	74.00	15.70	181	PK	Horizontal	PASS
2378.18	8.4	45.92	37.480	54.00	8.08	218	AV	Horizontal	PASS
2379.46	21.5	58.95	37.480	74.00	15.05	167	PK	Horizontal	PASS
2387.33	8.5	45.99	37.490	54.00	8.01	32	AV	Horizontal	PASS



Plot for Channel 39



Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2487.20	8.1	46.39	38.270	54.00	7.61	281	AV	Horizontal	PASS
2487.51	20.0	58.28	38.270	74.00	15.72	194	PK	Horizontal	PASS
2491.91	8.1	46.40	38.260	54.00	7.60	277	AV	Horizontal	PASS
2493.18	20.7	58.93	38.260	74.00	15.07	277	PK	Horizontal	PASS
2495.51	8.1	46.36	38.260	54.00	7.64	304	AV	Horizontal	PASS
2496.21	20.2	58.43	38.260	74.00	15.57	249	PK	Horizontal	PASS



A.10. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

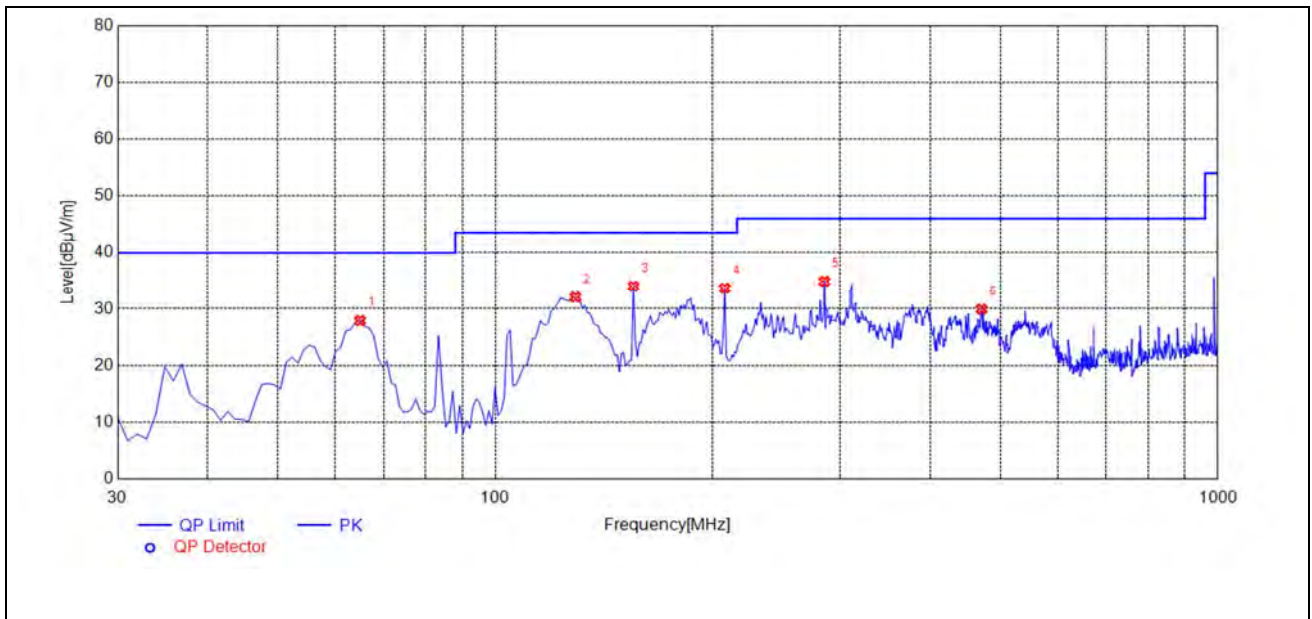
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

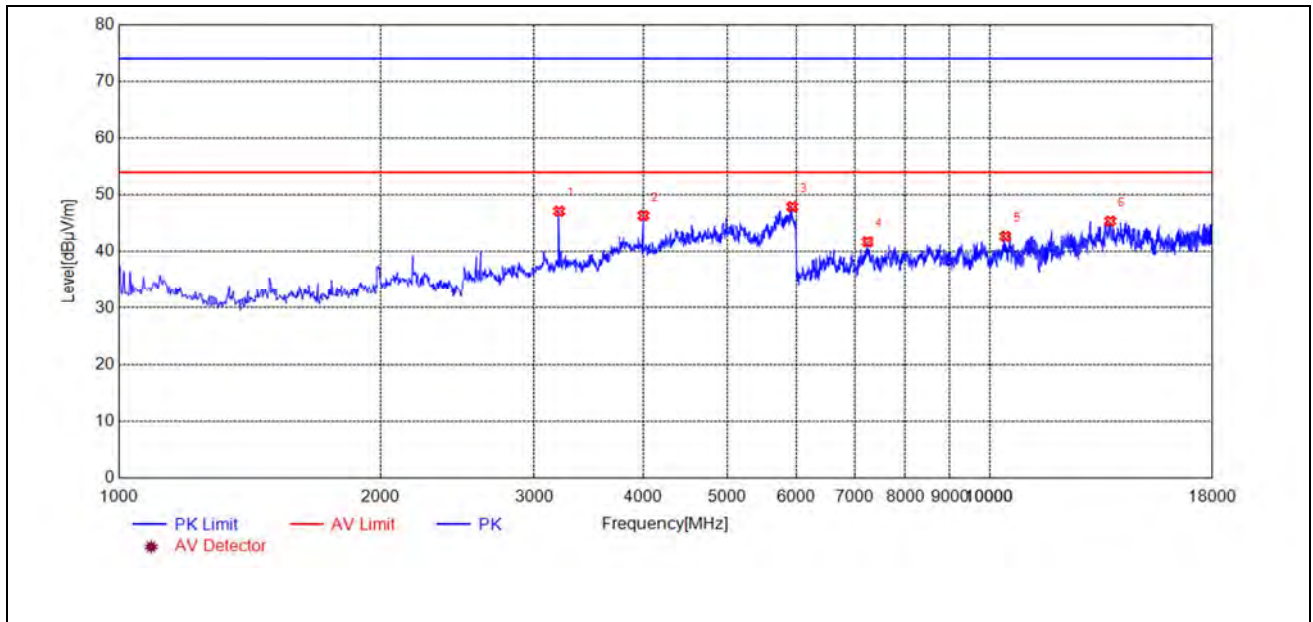


Plot for Channel 0



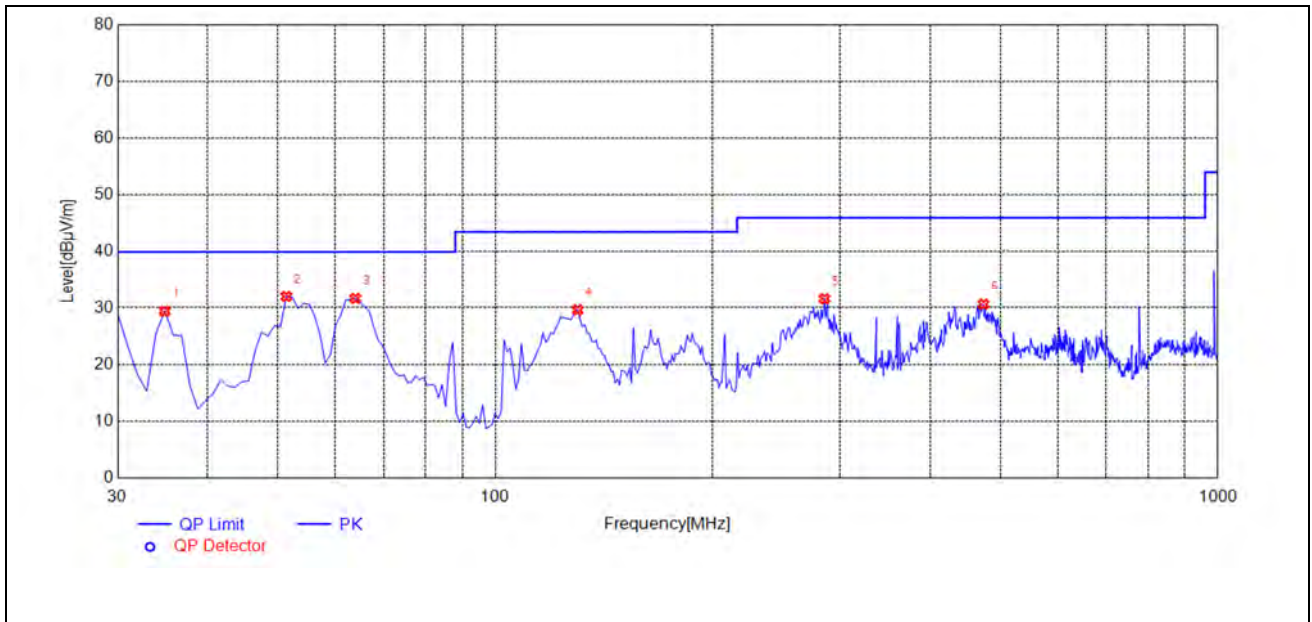
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
64.9550	27.91	-30.25	40.00	12.09	150	328	PK	Horizontal	PASS
129.0390	32.07	-32.25	43.50	11.43	150	268	PK	Horizontal	PASS
155.2553	34.03	-34.11	43.50	9.47	150	268	PK	Horizontal	PASS
207.6877	33.70	-32.30	43.50	9.80	150	260	PK	Horizontal	PASS
285.3654	34.92	-29.55	46.00	11.08	150	353	PK	Horizontal	PASS
470.8208	29.91	-24.05	46.00	16.09	150	260	PK	Horizontal	PASS



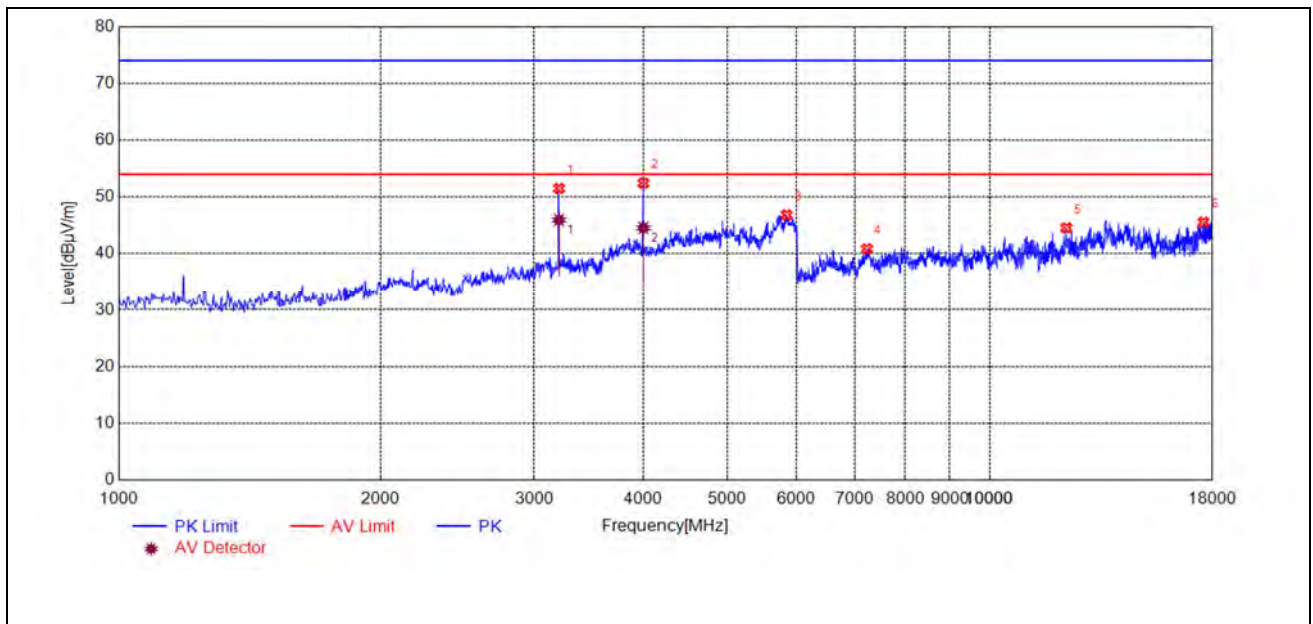
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
3203.6407	47.14	-17.13	74.00	26.86	150	198	PK	Horizontal	PASS
4002.8006	46.38	-14.55	74.00	27.62	150	48	PK	Horizontal	PASS
5930.9862	47.95	-6.57	74.00	26.05	150	206	PK	Horizontal	PASS
7240.2481	41.77	-2.66	74.00	32.23	150	73	PK	Horizontal	PASS
10419.8840	42.73	2.45	74.00	31.27	150	281	PK	Horizontal	PASS
13749.1498	45.41	7.22	74.00	28.59	150	82	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
34.8549	29.39	-40.91	40.00	10.61	150	92	PK	Vertical	PASS
51.3614	31.97	-28.71	40.00	8.03	150	161	PK	Vertical	PASS
63.9840	31.63	-30.20	40.00	8.37	150	204	PK	Vertical	PASS
130.0100	29.61	-33.03	43.50	13.89	150	229	PK	Vertical	PASS
285.3654	31.57	-29.55	46.00	14.43	150	271	PK	Vertical	PASS
473.7337	30.59	-24.51	46.00	15.41	150	280	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

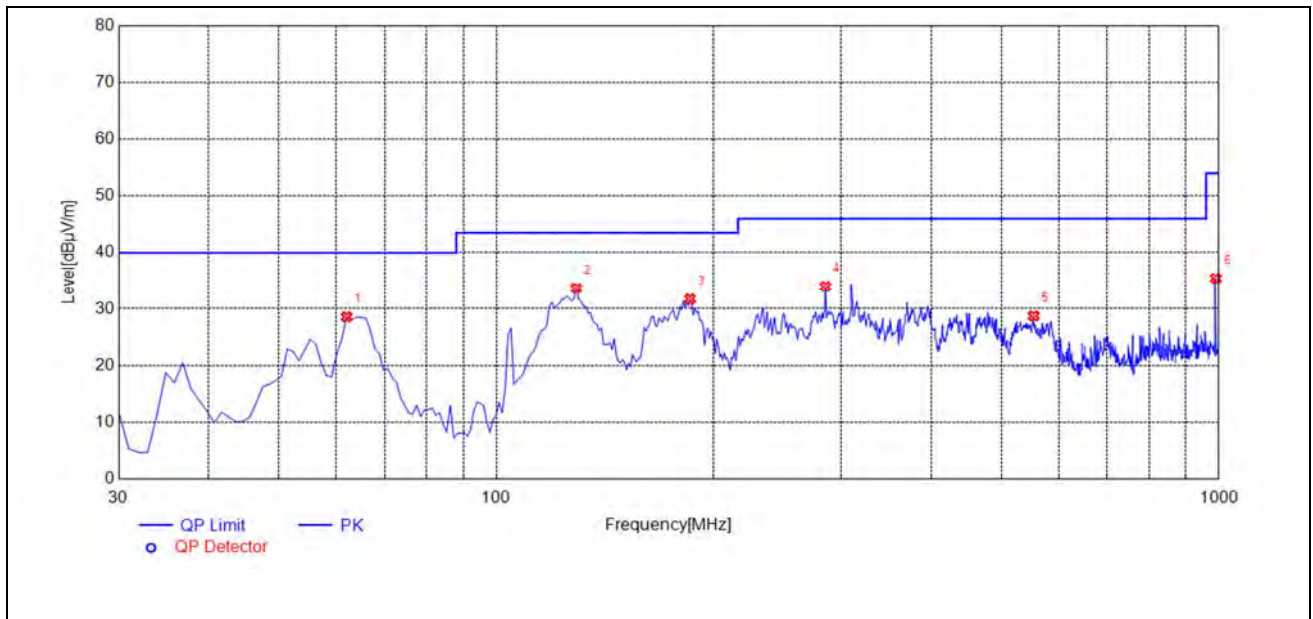
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
3203.6407	51.51	-17.13	74.00	22.49	150	31	PK	Vertical	PASS
4002.8006	52.46	-14.55	74.00	21.54	150	23	PK	Vertical	PASS
5845.9692	46.85	-7.03	74.00	27.15	150	23	PK	Vertical	PASS
7226.6453	40.89	-2.78	74.00	33.11	150	324	PK	Vertical	PASS
12239.2479	44.57	5.08	74.00	29.43	150	73	PK	Vertical	PASS
17595.3191	45.56	8.85	74.00	28.44	150	65	PK	Vertical	PASS

Freq. [MHz]	Factor [dB]	Height [cm]	Angle [°]	Polarity	Verdict
3202.7275	-17.15	150	47	Vertical	PASS
4003.1970	-14.55	150	23	Vertical	PASS

Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
3202.7275	-17.15	45.95	54.00	8.05	150	47	Vertical	PASS
4003.1970	-14.55	44.55	54.00	9.45	150	23	Vertical	PASS

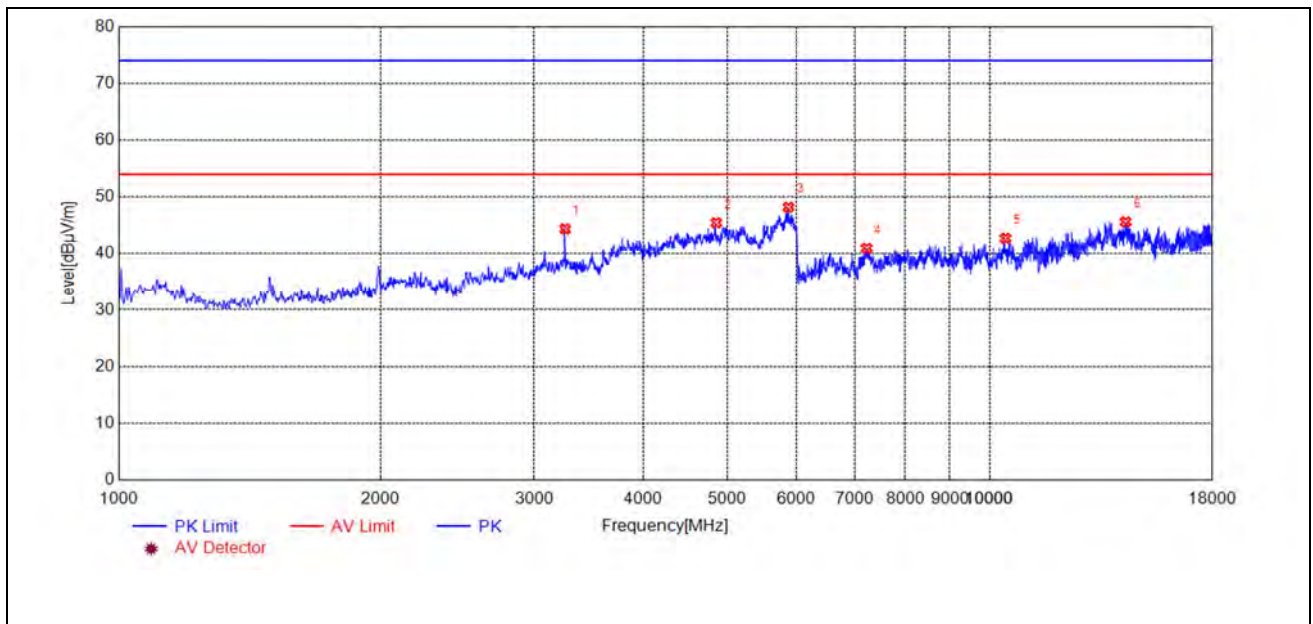


Plot for Channel 19



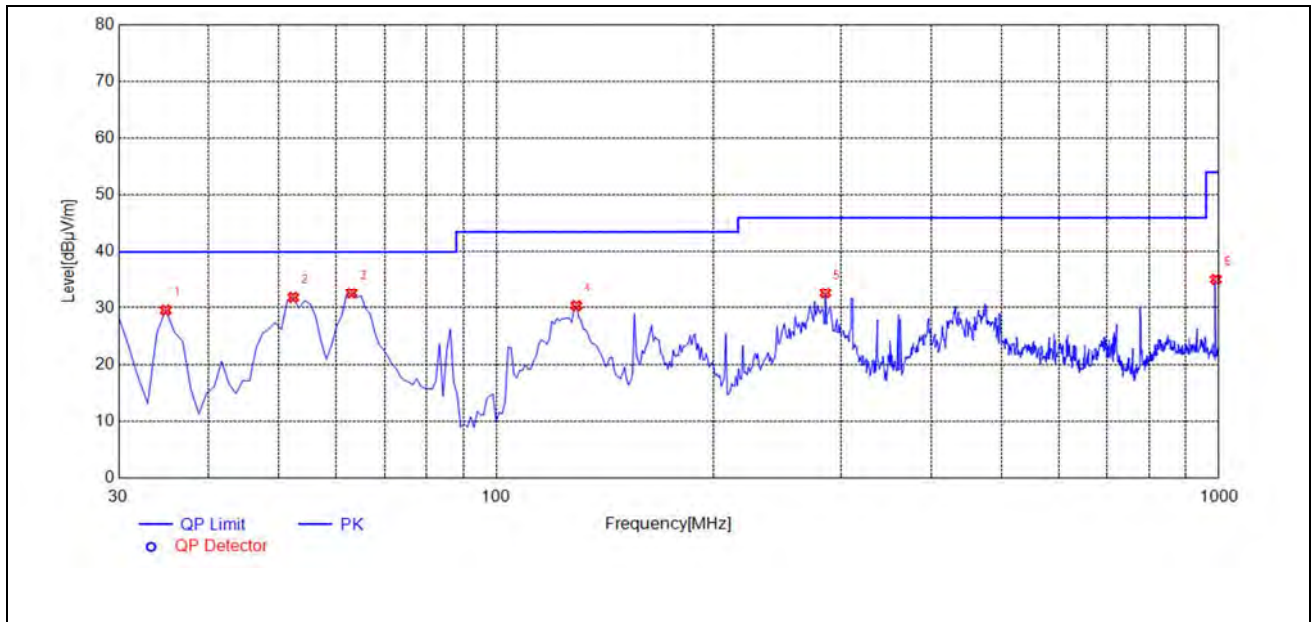
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
62.0420	28.56	-29.99	40.00	11.44	150	323	PK	Horizontal	PASS
129.0390	33.71	-32.25	43.50	9.79	150	272	PK	Horizontal	PASS
185.3554	31.74	-32.56	43.50	11.76	150	84	PK	Horizontal	PASS
285.3654	34.00	-29.55	46.00	12.00	150	109	PK	Horizontal	PASS
554.3243	28.71	-23.62	46.00	17.29	150	152	PK	Horizontal	PASS
990.2903	35.47	-18.25	54.00	18.53	150	187	PK	Horizontal	PASS



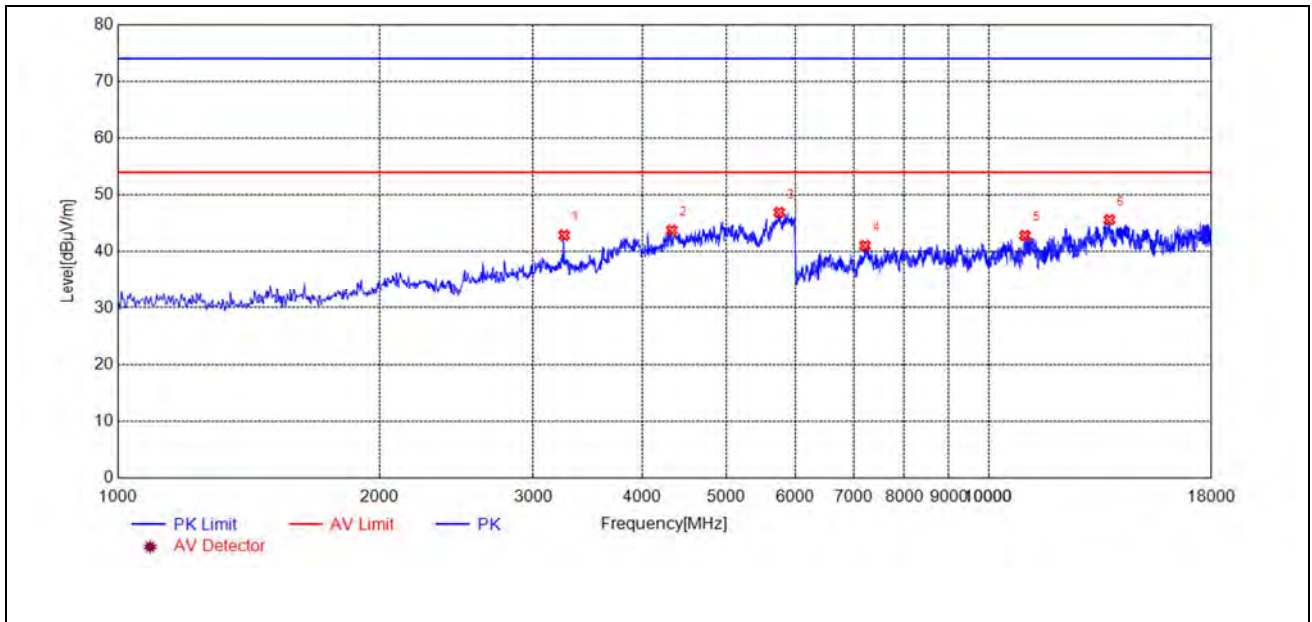
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
3254.6509	44.40	-16.58	74.00	29.60	150	95	PK	Horizontal	PASS
4852.9706	45.47	-10.15	74.00	28.53	150	221	PK	Horizontal	PASS
5873.1746	48.20	-6.97	74.00	25.80	150	45	PK	Horizontal	PASS
7223.2446	40.98	-2.80	74.00	33.02	150	45	PK	Horizontal	PASS
10419.8840	42.74	2.45	74.00	31.26	150	154	PK	Horizontal	PASS
14317.0634	45.62	7.69	74.00	28.38	150	237	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
34.8549	29.55	-40.91	40.00	10.45	150	20	PK	Vertical	PASS
52.3323	31.81	-28.72	40.00	8.19	150	165	PK	Vertical	PASS
63.0130	32.60	-30.53	40.00	7.40	150	156	PK	Vertical	PASS
129.0390	30.33	-32.25	43.50	13.17	150	165	PK	Vertical	PASS
285.3654	32.63	-29.55	46.00	13.37	150	276	PK	Vertical	PASS
990.2903	35.12	-18.25	54.00	18.88	150	208	PK	Vertical	PASS

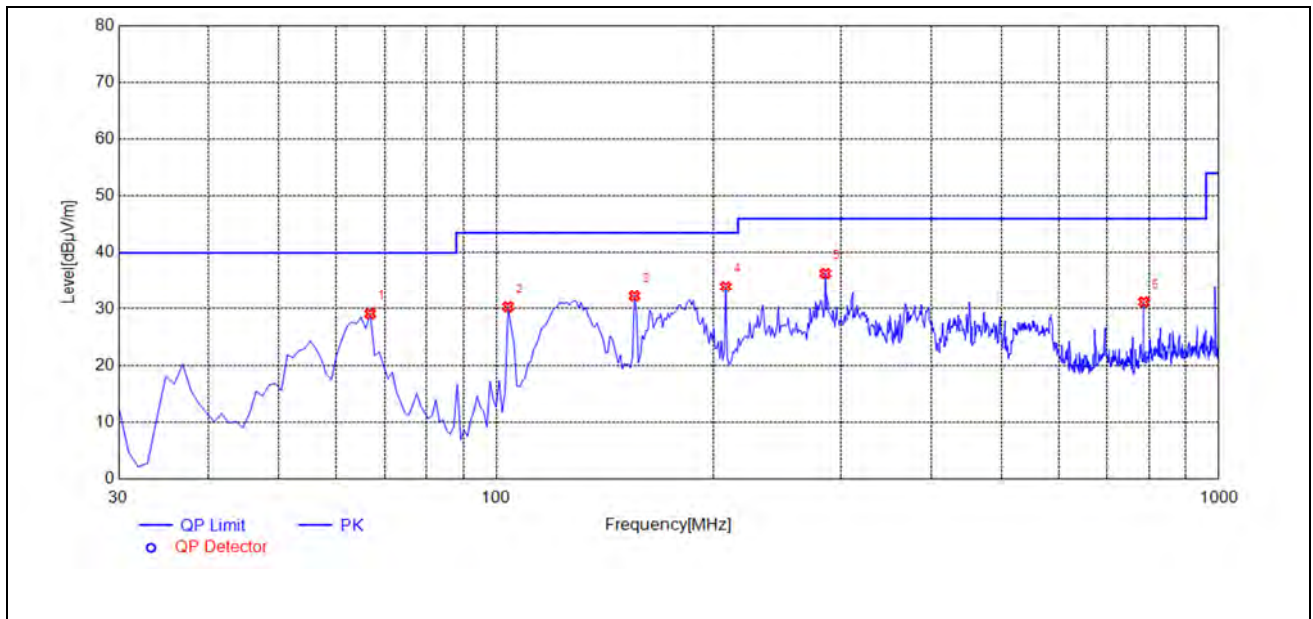


(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
3254.6509	42.91	-16.58	74.00	31.09	150	45	PK	Vertical	PASS
4325.8652	43.78	-12.43	74.00	30.22	150	15	PK	Vertical	PASS
5747.3495	46.93	-6.77	74.00	27.07	150	261	PK	Vertical	PASS
7209.6419	41.09	-2.92	74.00	32.91	150	202	PK	Vertical	PASS
11001.4003	42.85	3.47	74.00	31.15	150	61	PK	Vertical	PASS
13755.9512	45.67	7.13	74.00	28.33	150	311	PK	Vertical	PASS

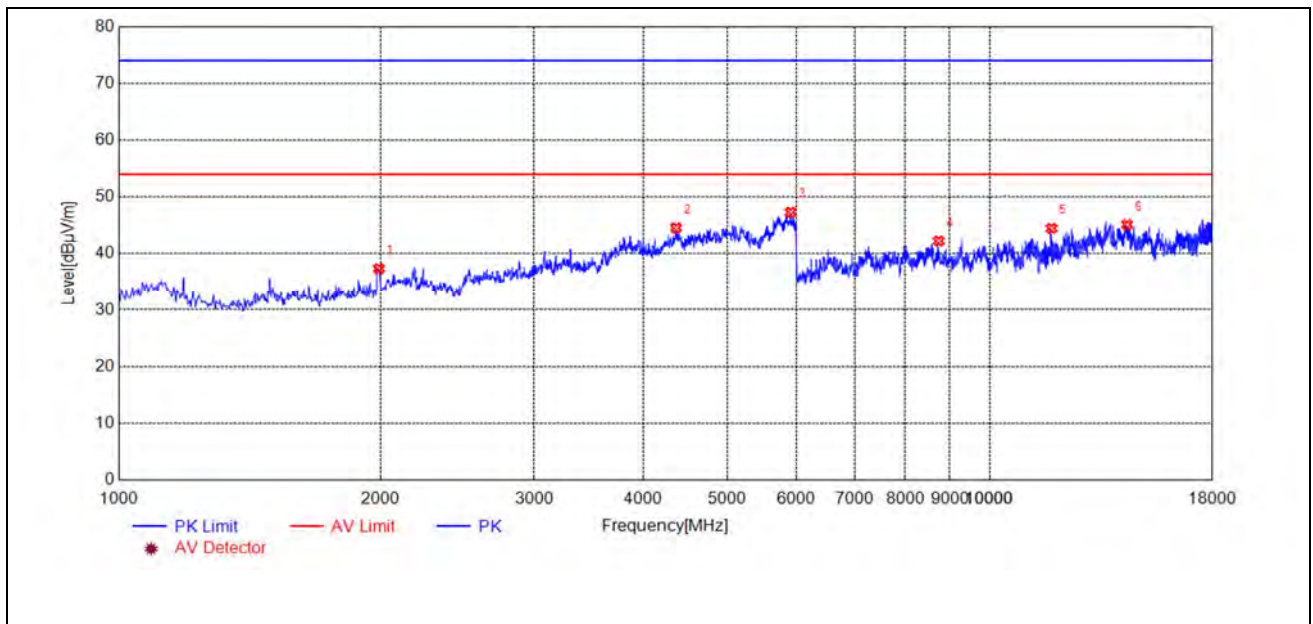


Plot for Channel 39



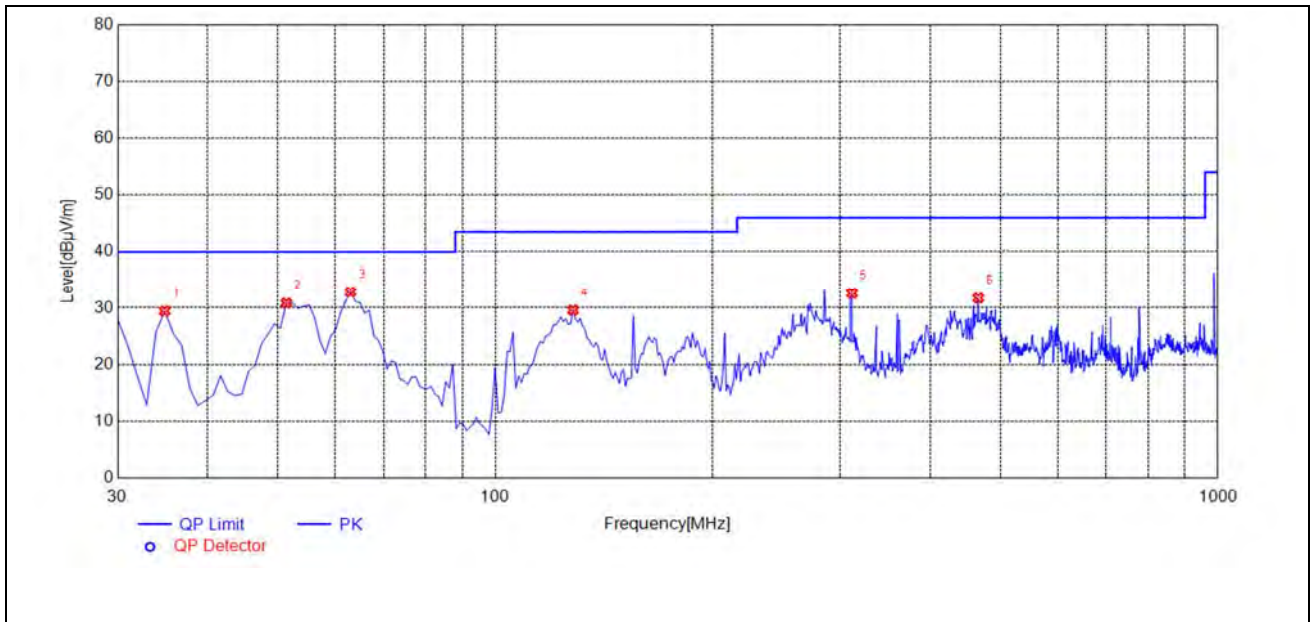
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
66.8969	29.09	-30.98	40.00	10.91	150	318	PK	Horizontal	PASS
103.7938	30.33	-30.69	43.50	13.17	150	335	PK	Horizontal	PASS
155.2553	32.24	-34.11	43.50	11.26	150	233	PK	Horizontal	PASS
207.6877	33.99	-32.30	43.50	9.51	150	267	PK	Horizontal	PASS
285.3654	36.35	-29.55	46.00	9.65	150	122	PK	Horizontal	PASS
787.3574	31.17	-20.84	46.00	14.83	150	224	PK	Horizontal	PASS



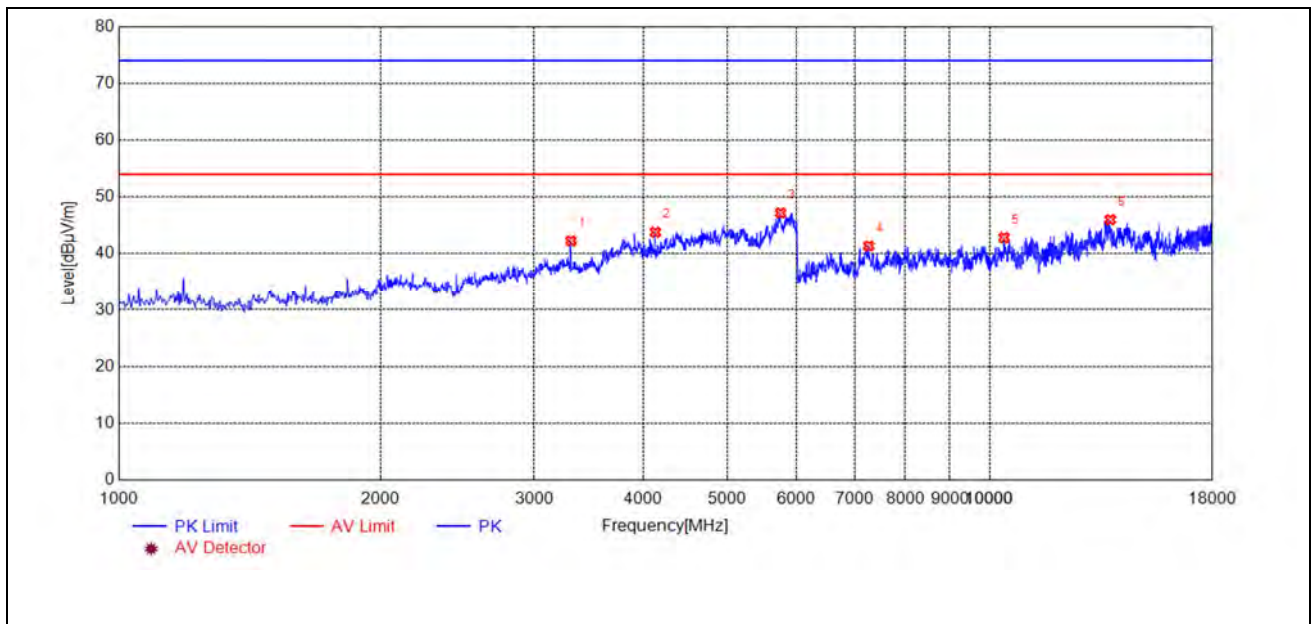
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1989.5979	37.39	-21.92	74.00	36.61	150	233	PK	Horizontal	PASS
4363.2727	44.56	-11.97	74.00	29.44	150	333	PK	Horizontal	PASS
5907.1814	47.31	-6.92	74.00	26.69	150	107	PK	Horizontal	PASS
8736.5473	42.26	-1.05	74.00	31.74	150	24	PK	Horizontal	PASS
11773.3547	44.48	2.94	74.00	29.52	150	149	PK	Horizontal	PASS
14371.4743	45.12	6.44	74.00	28.88	150	224	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
34.8549	29.41	-40.91	40.00	10.59	150	92	PK	Vertical	PASS
51.3614	30.83	-28.71	40.00	9.17	150	143	PK	Vertical	PASS
63.0130	32.83	-30.53	40.00	7.17	150	254	PK	Vertical	PASS
128.0681	29.59	-32.12	43.50	13.91	150	220	PK	Vertical	PASS
311.5816	32.58	-29.04	46.00	13.42	150	323	PK	Vertical	PASS
465.9660	31.74	-23.84	46.00	14.26	150	288	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
3305.6611	42.29	-16.97	74.00	31.71	150	28	PK	Vertical	PASS
4132.0264	43.80	-13.92	74.00	30.20	150	36	PK	Vertical	PASS
5750.7502	47.20	-6.75	74.00	26.80	150	320	PK	Vertical	PASS
7260.6521	41.39	-2.76	74.00	32.61	150	112	PK	Vertical	PASS
10382.4765	42.83	1.96	74.00	31.17	150	237	PK	Vertical	PASS
13749.1498	46.01	7.22	74.00	27.99	150	120	PK	Vertical	PASS

END OF REPORT