



REPORT No.: SZ25120339W01

TEST REPORT

APPLICANT : Wuxi iData Technology Company Ltd.

PRODUCT NAME : Ring scanner

MODEL NAME : Refer 2.2

BRAND NAME : iData

FCC ID : 2ADE3IDATARS200

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2026-01-12

TEST DATE : 2026-01-14 to 2026-01-29

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MORLAB

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REPORT No.: SZ25120339W01

Change History		
Version	Date	Reason for change
1.0	2026-02-27	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	Jan. 15, 2026	Zhu Peihong	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Jan. 15, 2026	Zhu Peihong	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Jan. 15, 2026	Zhu Peihong	PASS	/
5	15.247(a)	Bandwidth	Jan. 15, 2026	Zhu Peihong	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Jan. 15, 2026	Zhu Peihong	PASS	/
7	15.247(e)	Power Spectral Density	Jan. 15, 2026	Zhu Peihong	PASS	/
8	15.207	Conducted Emission	Jan. 19 to 24, 2026	Wang Yapeng	PASS	/
9	15.247(d)	Restricted Frequency Bands	Jan. 29, 2026	Tian Xin	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Jan. 29, 2026	Tian Xin	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	2025.12.23	2026.12.22
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
RF Coaxial Cable (DC-100MHz)	EMC-CE-00514	N/A	N/A	2025.05.06	2026.05.05
INTELLIGENT PURE SINE- WAVE POWER SUPPLY	1008004	TPS 500B	EVERFINE	2025.09.11	2026.09.10

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	01774	BBHA 9120D	Schwarzbeck	2025.06.20	2026.06.19
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	2025.09.03	2026.09.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2025.09.03	2026.09.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2025.09.03	2026.09.02
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	2025.04.19	2028.04.18



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.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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FCC Designation Number:	CN1192
FCC Test Firm Registration Number:	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	Wuxi iData Technology Company Ltd.
Applicant Address:	Floor 11, Building B1, No.999 Gaolang East Road Wuxi City, P.R.C.
Manufacturer:	Wuxi iData Technology Company Ltd.
Manufacturer Address:	Floor 11, Building B1, No.999 Gaolang East Road Wuxi City, P.R.C.

2.2. Information of EUT

Product Name:	Ring scanner	
Sample No.:	1#, 2#, 3#, 4#	
Model Name:	iData RS200, iData RS210, iData RS220, iData RS230, iData RS260, iData RS270, iData RS280, iData RS290, iData RS211, iData RS222, iData RS233, iData RS255, iData RS266, iData RS277, iData RS288, iData RS299, iData RS21A, iData RS21B, iData RS22A, iData RS22C, iData RS23A, iData RS23C, iData RS24A, iData RS24C, iData RS25A, iData RS25C, iData RS26A, iData RS26C, iData RS27A, iData RS27C, iData RS28A, iData RS28C, iData RS29A, iData RS29C	
Hardware Version:	V2	
Software Version:	RS200_V	
Equipment Type:	Bluetooth LE	
Bluetooth Version:	5.0	
Modulation Type:	GFSK	
Data Rate:	1Mbps, 2Mbps	
Operating Frequency Range:	2402MHz-2480MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	2.25dBi	
Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	CLP1223
	Serial No.:	N/A
	Capacity:	200mAh



	Rated Voltage:	3.7V
	Charge Limit:	4.2V
	Manufacturer:	SHENZHEN CHOLIPower TECHNOLOGY CO.,LTD.
	USB Cable	
	Model No.:	00150-24051301
	Manufacturer:	Trangjan Technology Group (Dongguan) 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.

Note 2: According to the certificate holder, they declared that the models iData RS200, iData RS210, iData RS220, iData RS230, iData RS260, iData RS270, iData RS280, iData RS290, iData RS211, iData RS222, iData RS233, iData RS255, iData RS266, iData RS277, iData RS288, iData RS299, iData RS21A, iData RS21B, iData RS22A, iData RS22C, iData RS23A, iData RS23C, iData RS24A, iData RS24C, iData RS25A, iData RS25C, iData RS26A, iData RS26C, iData RS27A, iData RS27C, iData RS28A, iData RS28C, iData RS29A and iData RS29C only the model numbers are different, everything else is the same. The main measuring model is iData RS200, only the results for iData RS200 were recorded in this report.

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

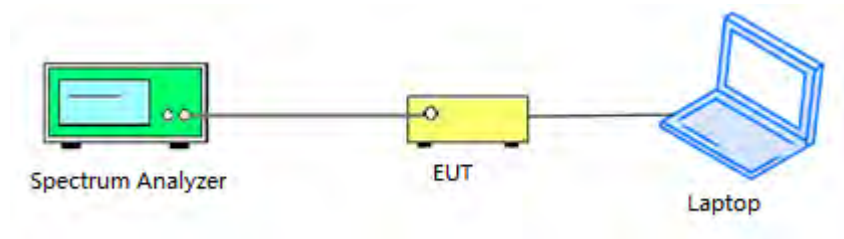
The EUT is controlled by dedicated software to transmit at the default maximum power level.

2.5. Test Conditions

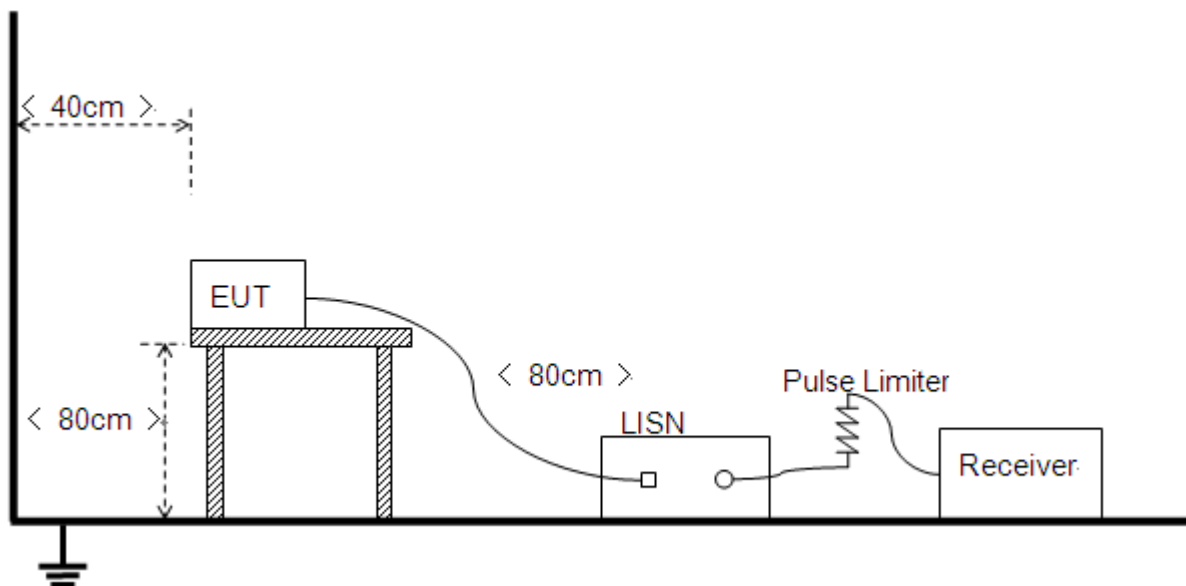
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

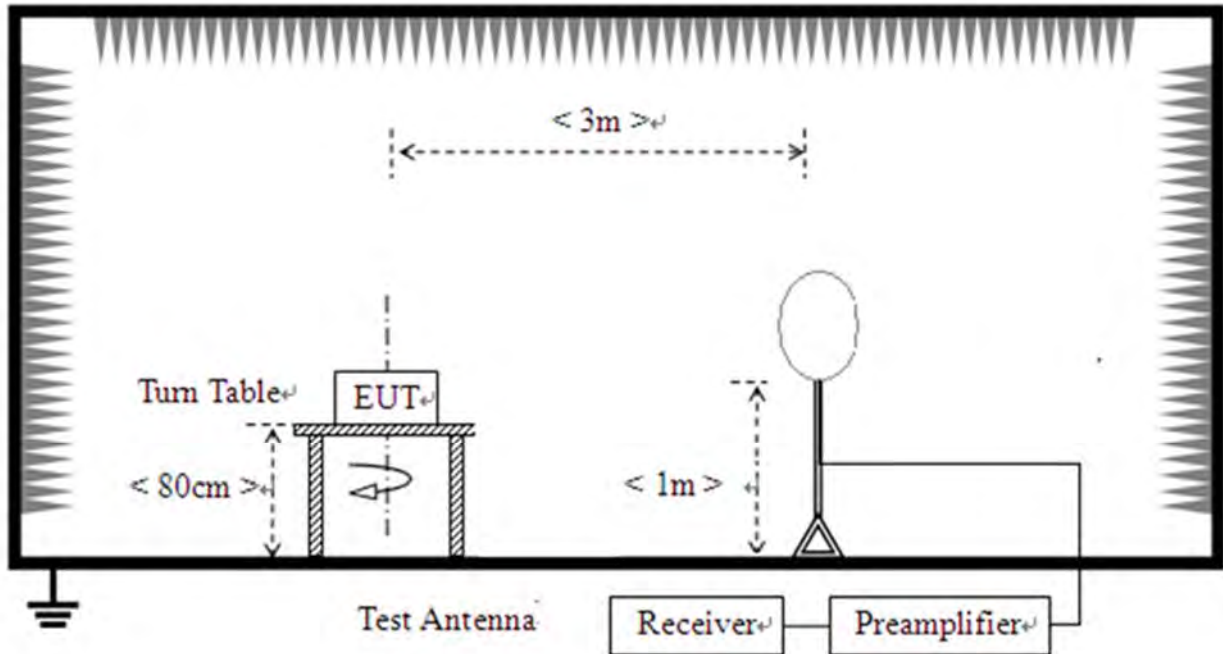


2.6.2. Conducted Emission Measurement

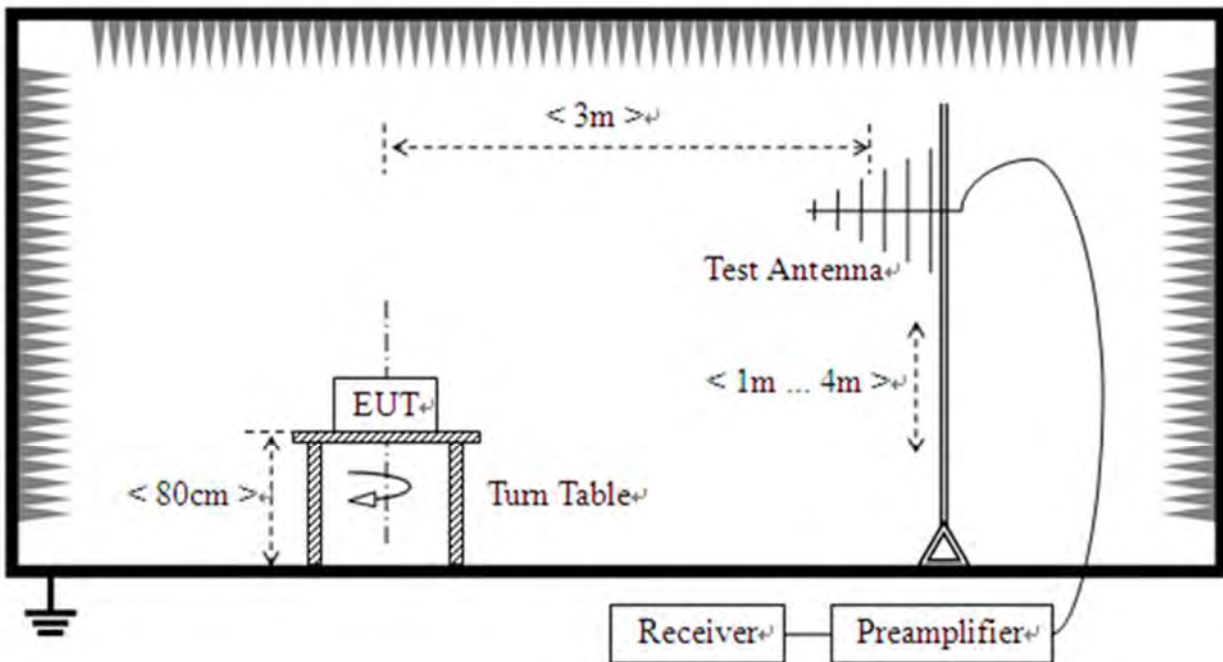


2.6.3.Radiation Measurement

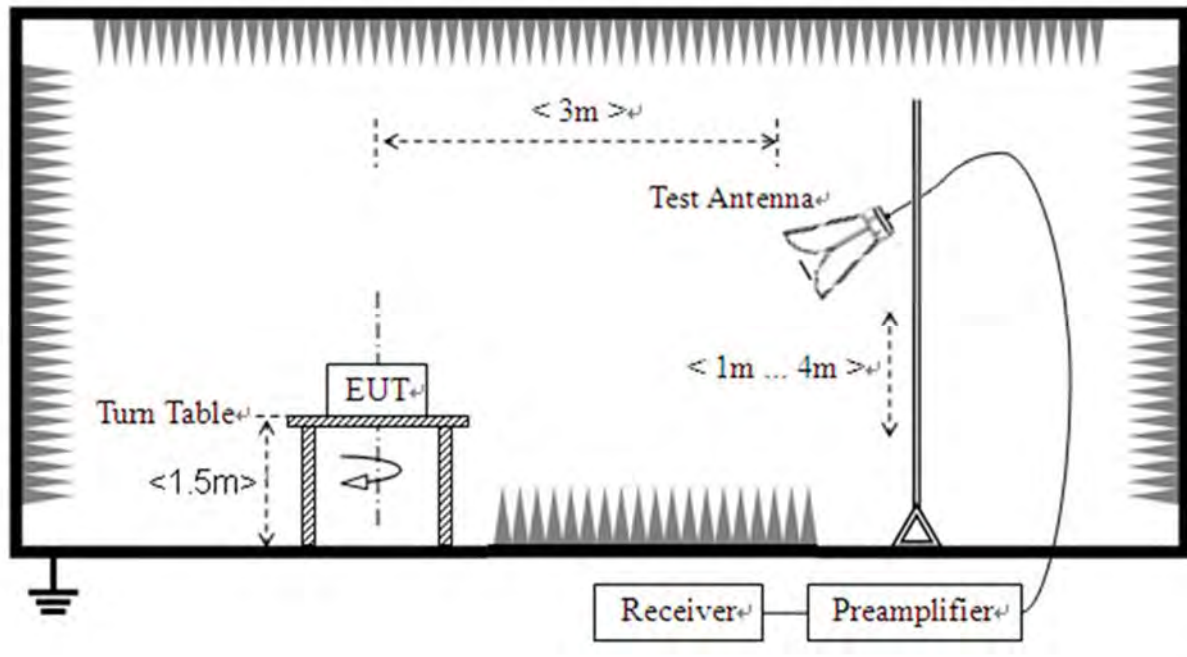
1) For radiated emissions from 9kHz to 30MHz



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 ☐ IPEX 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

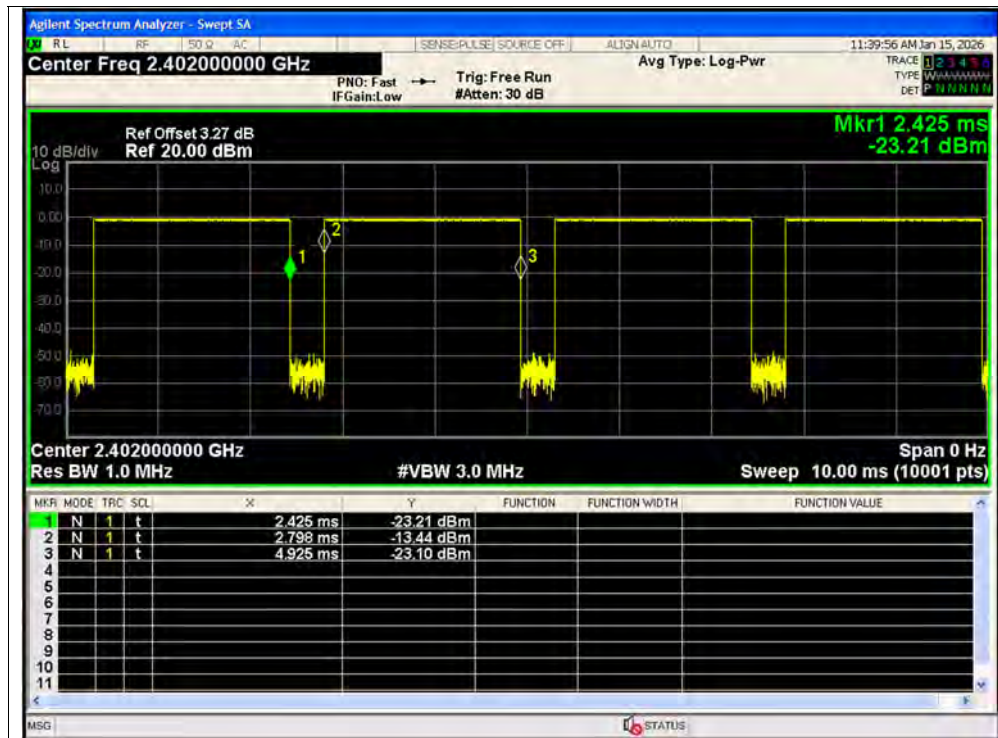
Refer to Annex A.10 in this report.



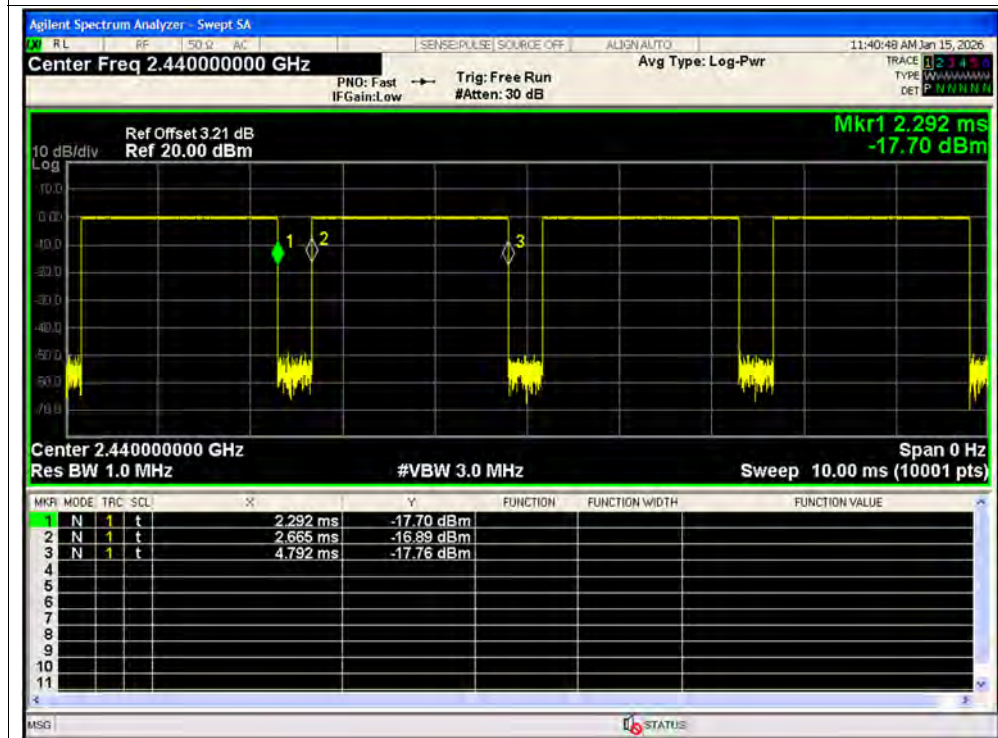
Annex A Test Data and Result

A.1. Duty Cycle of Test Signal

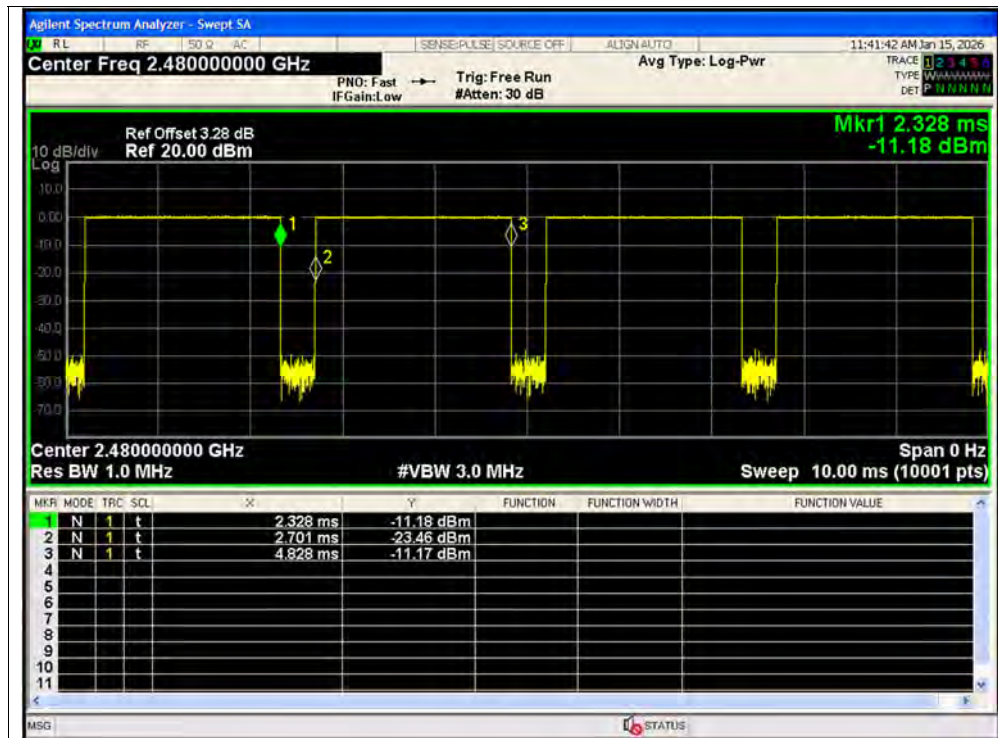
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	85.08	0.7	0.47
NVNT	BLE 1M	2440	Ant1	85.08	0.7	0.47
NVNT	BLE 1M	2480	Ant1	85.08	0.7	0.47
NVNT	BLE 2M	2402	Ant1	57.13	2.43	0.93
NVNT	BLE 2M	2440	Ant1	57.13	2.43	0.93
NVNT	BLE 2M	2480	Ant1	57.15	2.43	0.93



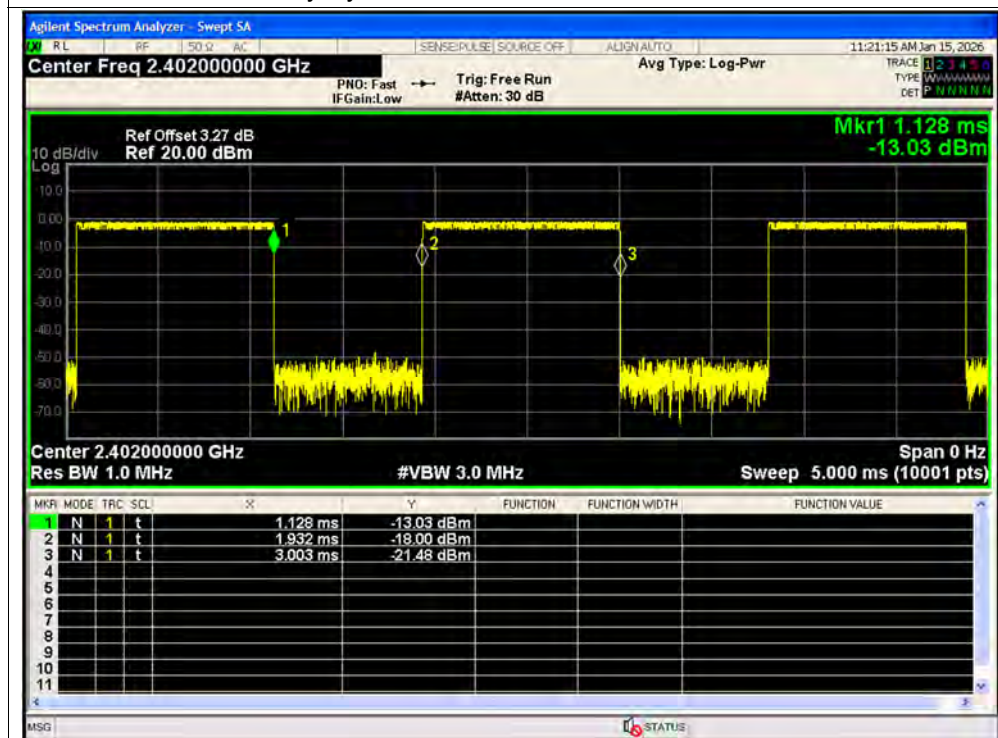
Duty Cycle NVNT BLE 1M 2402MHz Ant1



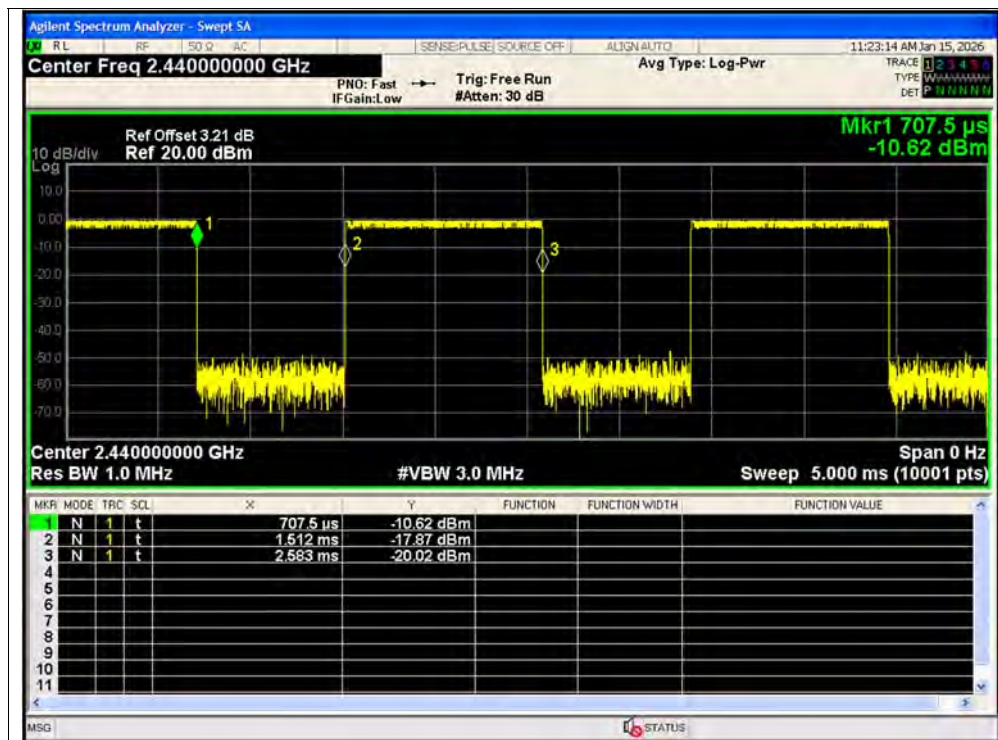
Duty Cycle NVNT BLE 1M 2440MHz Ant1



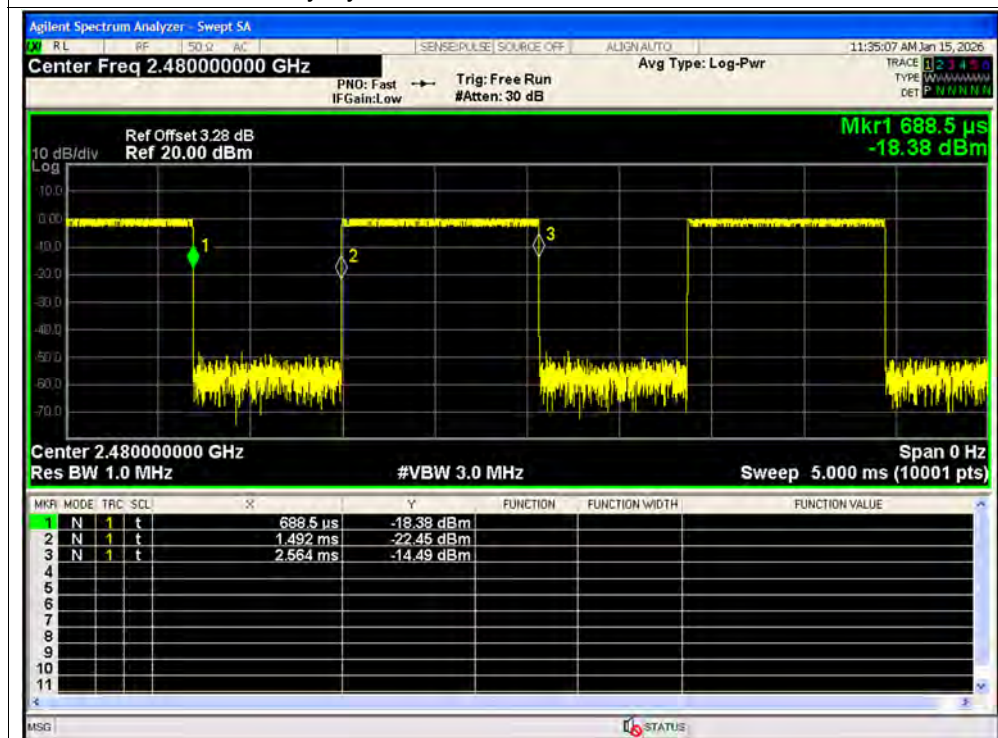
Duty Cycle NVNT BLE 1M 2480MHz Ant1



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	-0.36	0	-0.36	0.00092	30	Pass
NVNT	BLE 1M	2440	Ant1	0.46	0	0.46	0.00111	30	Pass
NVNT	BLE 1M	2480	Ant1	0.45	0	0.45	0.00111	30	Pass
NVNT	BLE 2M	2402	Ant1	-0.62	0	-0.62	0.00087	30	Pass
NVNT	BLE 2M	2440	Ant1	-0.13	0	-0.13	0.00097	30	Pass
NVNT	BLE 2M	2480	Ant1	0.42	0	0.42	0.0011	30	Pass



Peak Power NVNT BLE 1M 2402MHz Ant1



Peak Power NVNT BLE 1M 2440MHz Ant1



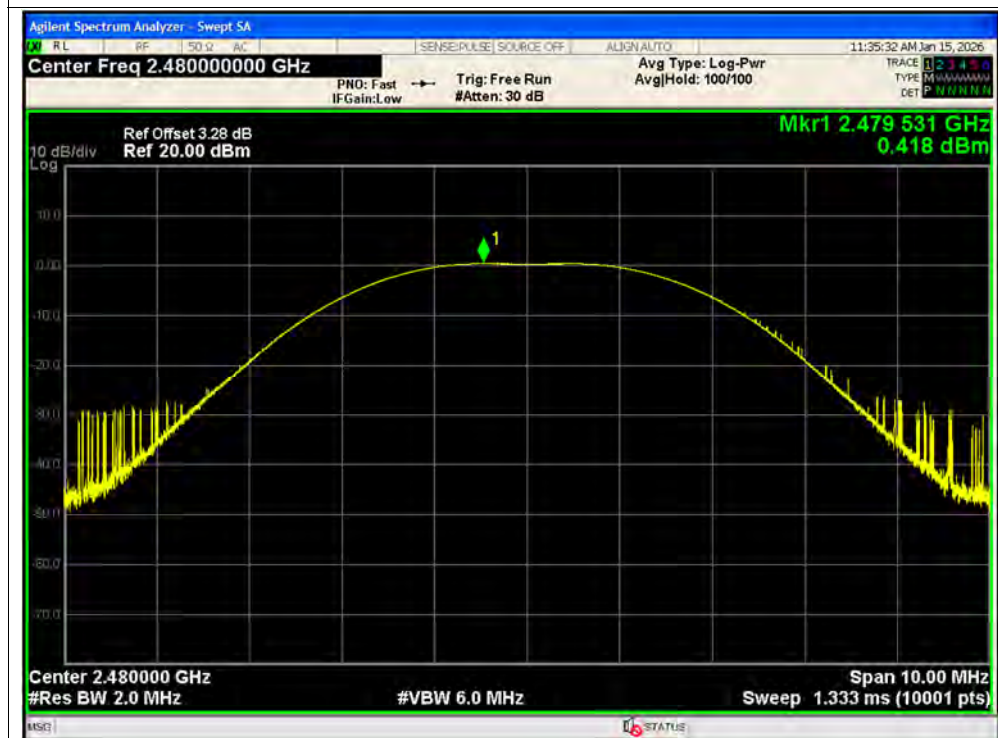
Peak Power NVNT BLE 1M 2480MHz Ant1



Peak Power NVNT BLE 2M 2402MHz Ant1



Peak Power NVNT BLE 2M 2440MHz Ant1



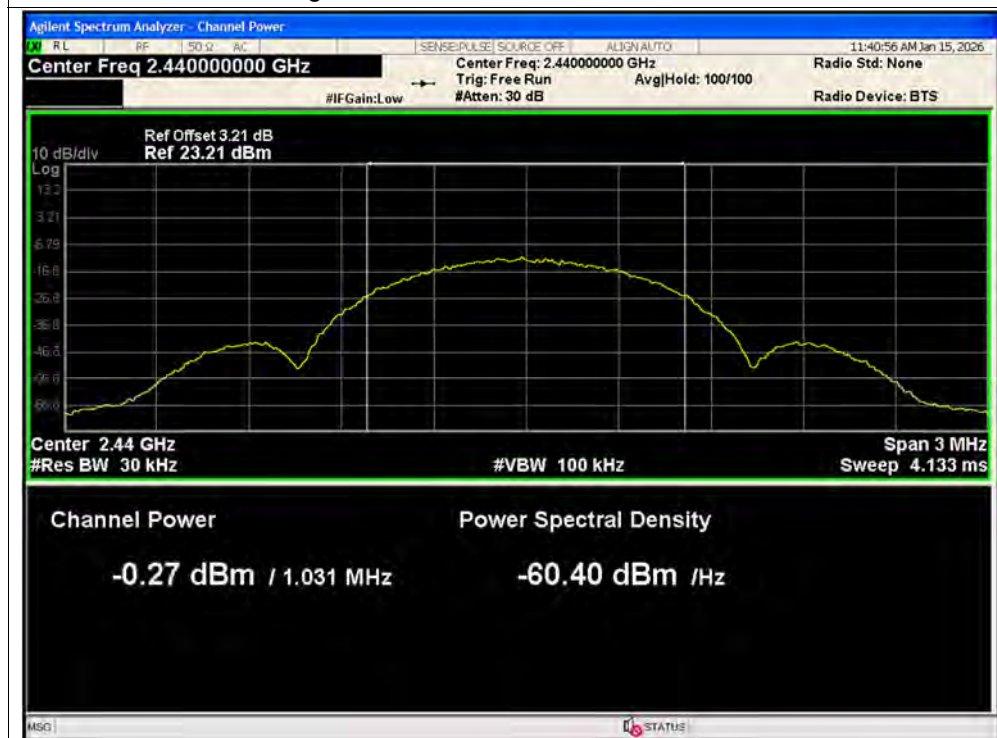
Peak Power NVNT BLE 2M 2480MHz Ant1

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

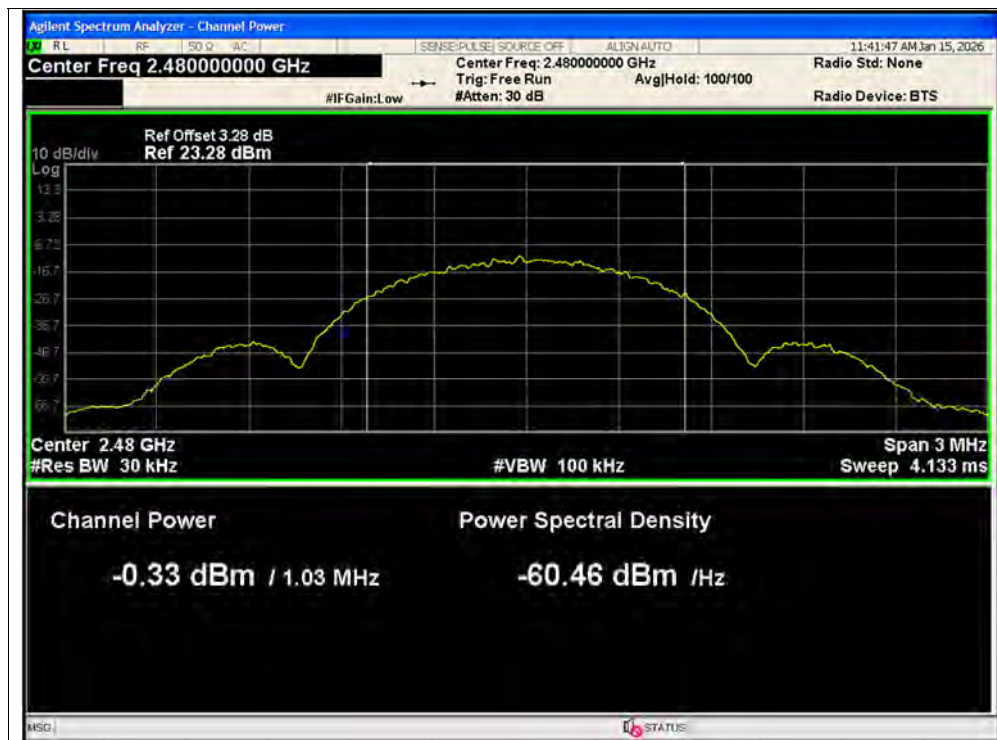
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.28	0.7	-0.58	0.00087	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.27	0.7	0.43	0.0011	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.33	0.7	0.37	0.00109	30	Pass
NVNT	BLE 2M	2402	Ant1	-3.15	2.43	-0.72	0.00085	30	Pass
NVNT	BLE 2M	2440	Ant1	-2.7	2.43	-0.27	0.00094	30	Pass
NVNT	BLE 2M	2480	Ant1	-2.05	2.43	0.38	0.00109	30	Pass



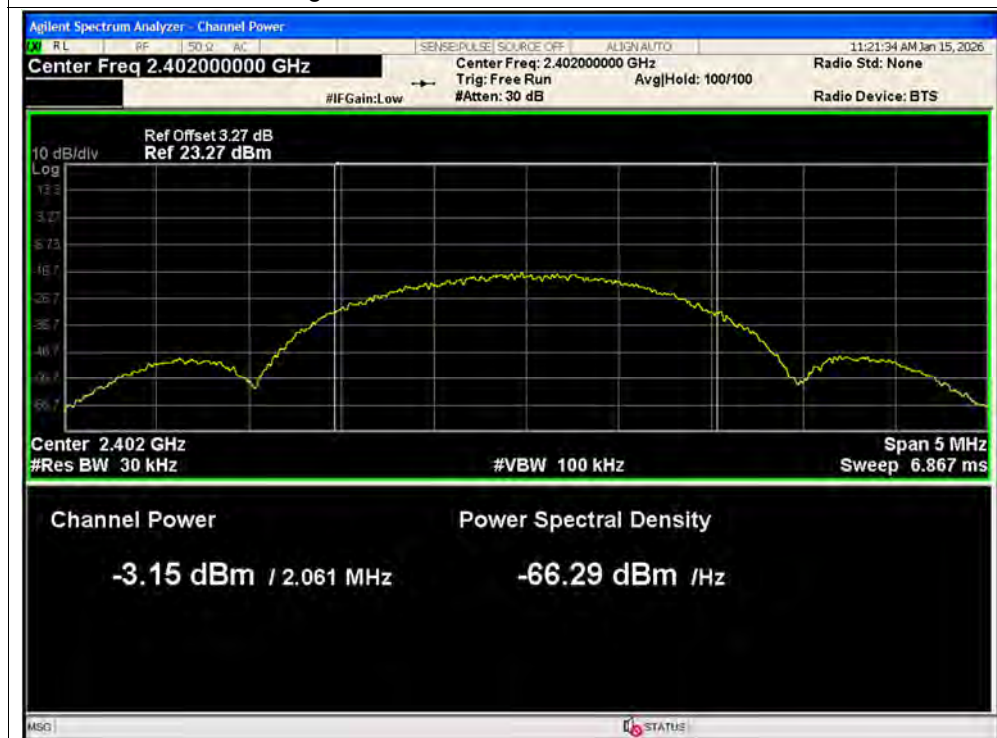
Average Power NVNT BLE 1M 2402MHz Ant1



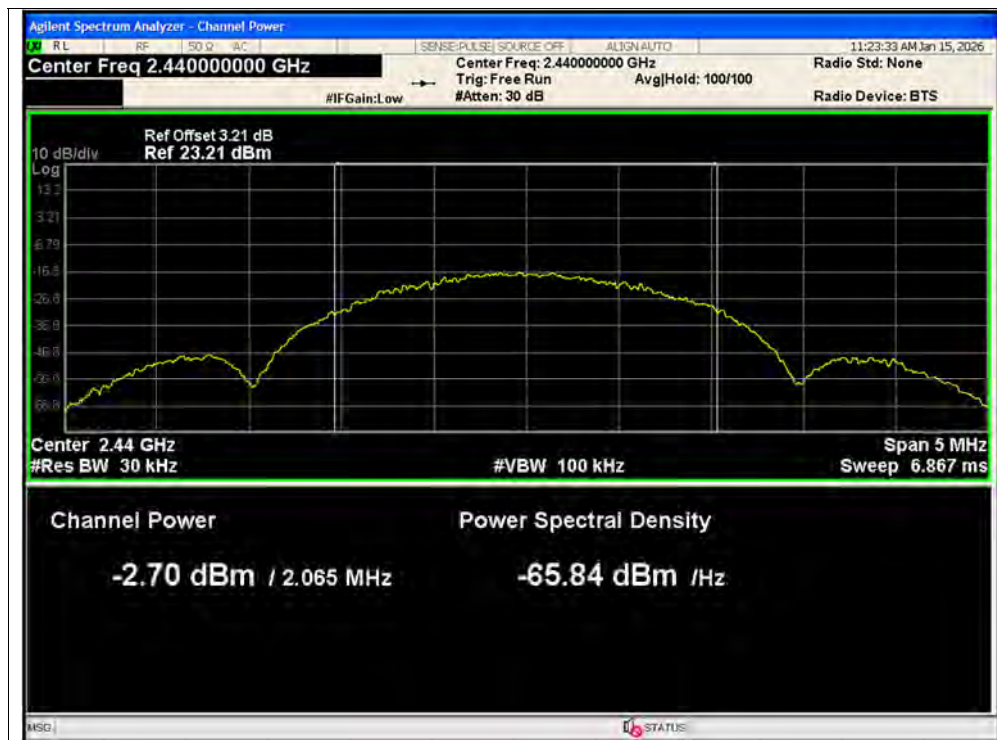
Average Power NVNT BLE 1M 2440MHz Ant1



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	0.6542	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.7209	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6937	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.226	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.141	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.142	0.5	Pass



-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



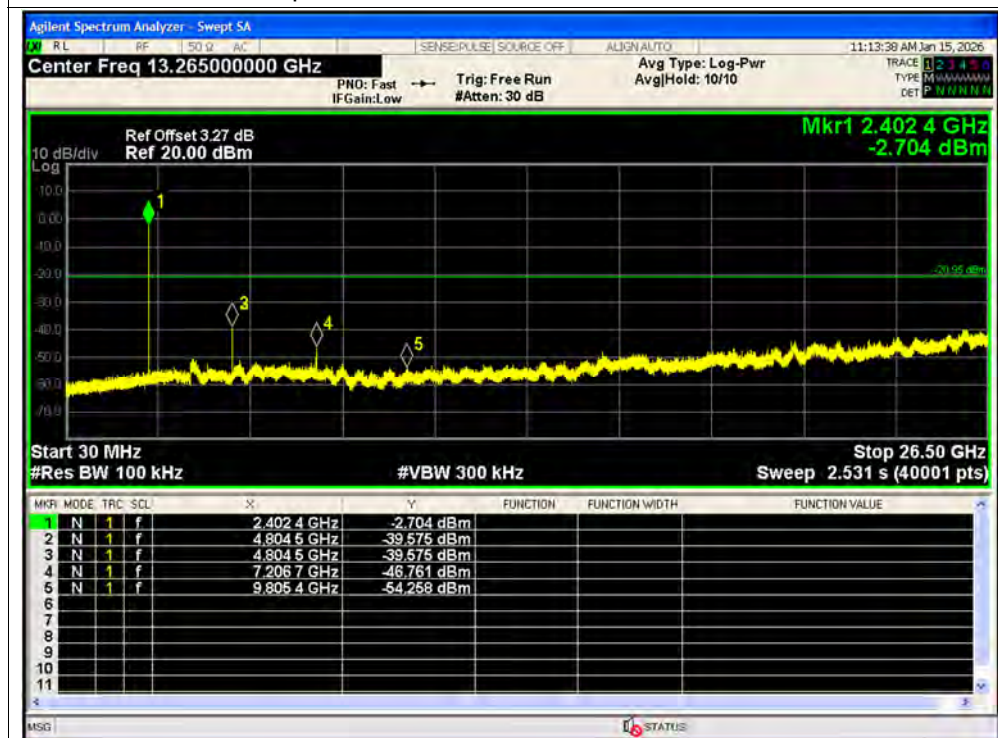
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

**A.5. Conducted Spurious Emissions**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-38.62	-20	Pass
NVNT	BLE 1M	2440	Ant1	-39.78	-20	Pass
NVNT	BLE 1M	2480	Ant1	-38.65	-20	Pass
NVNT	BLE 2M	2402	Ant1	-37.71	-20	Pass
NVNT	BLE 2M	2440	Ant1	-38.06	-20	Pass
NVNT	BLE 2M	2480	Ant1	-38.57	-20	Pass



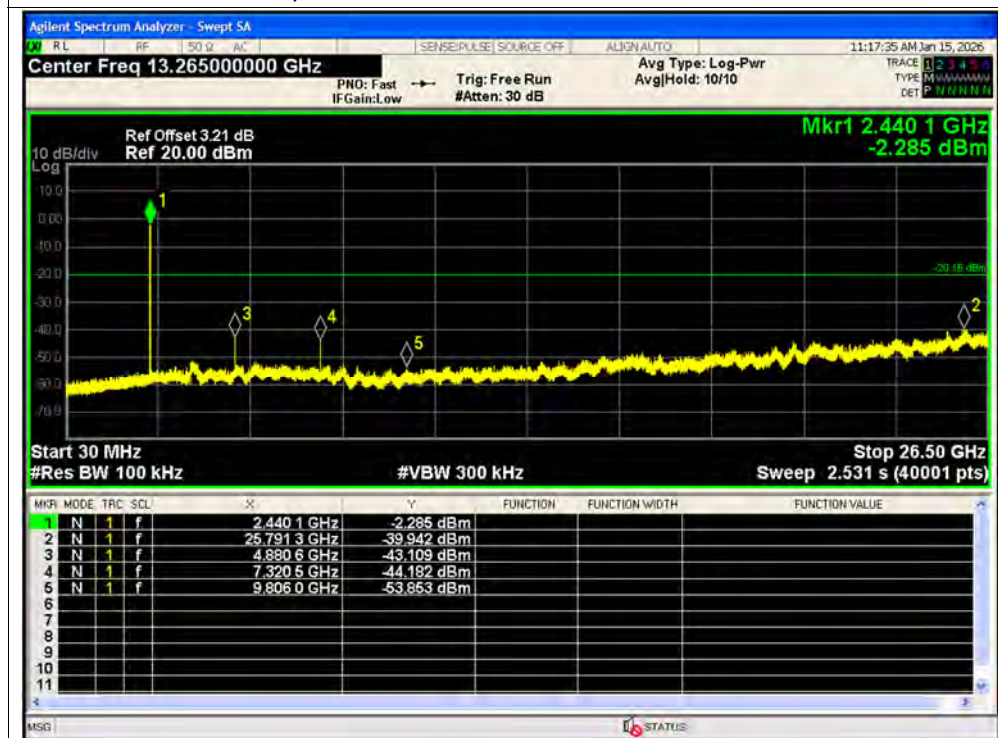
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



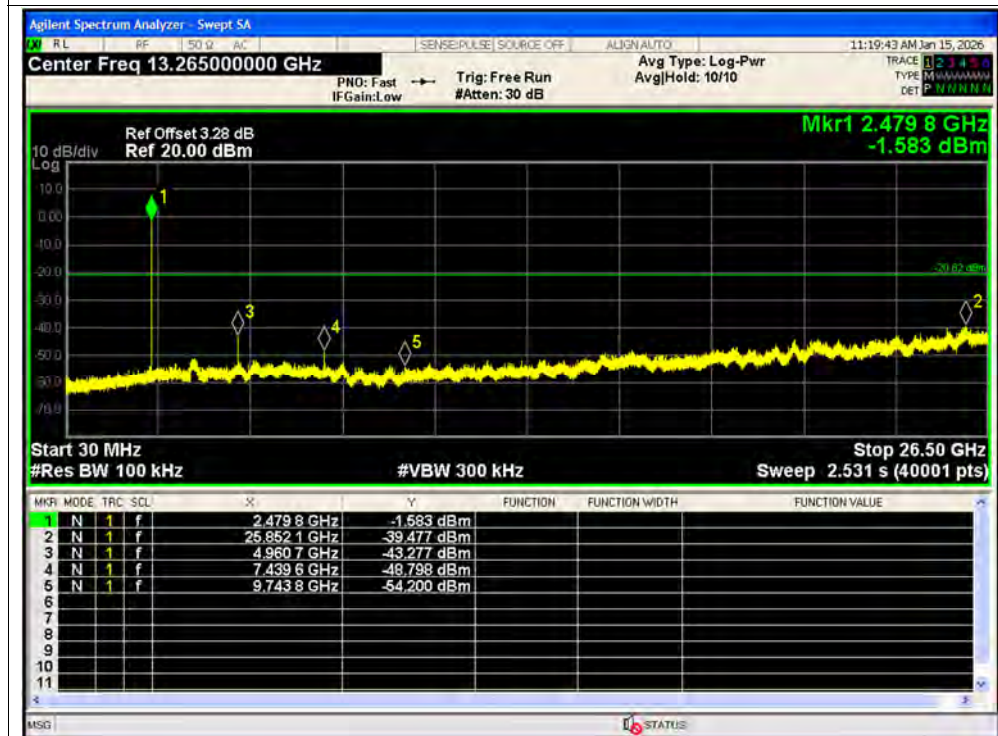
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



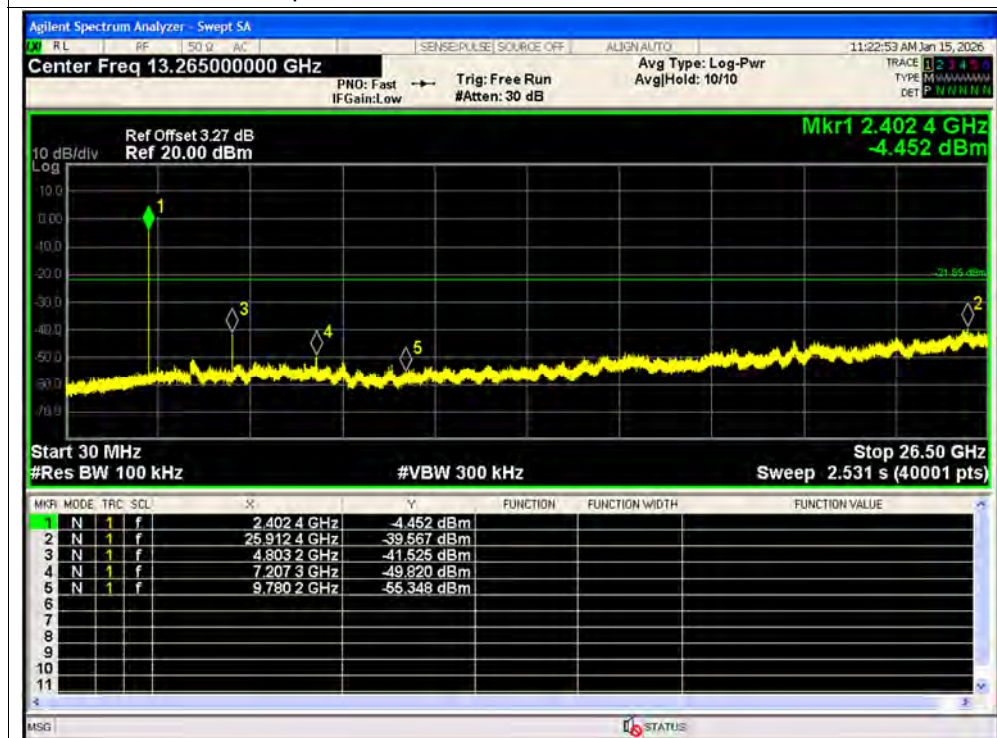
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



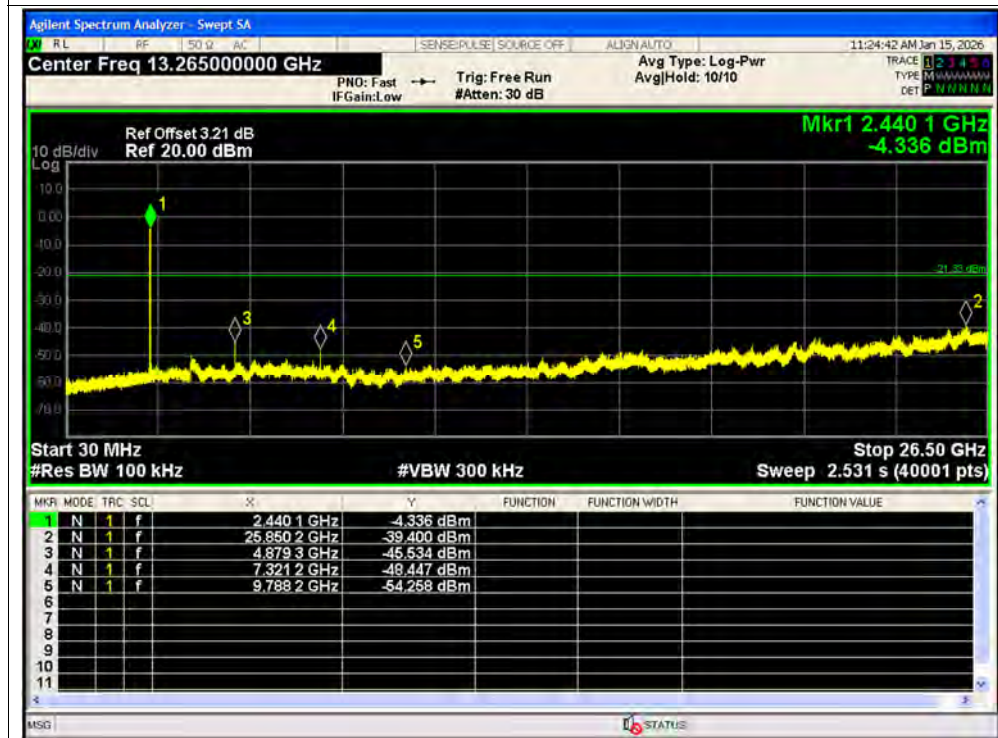
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



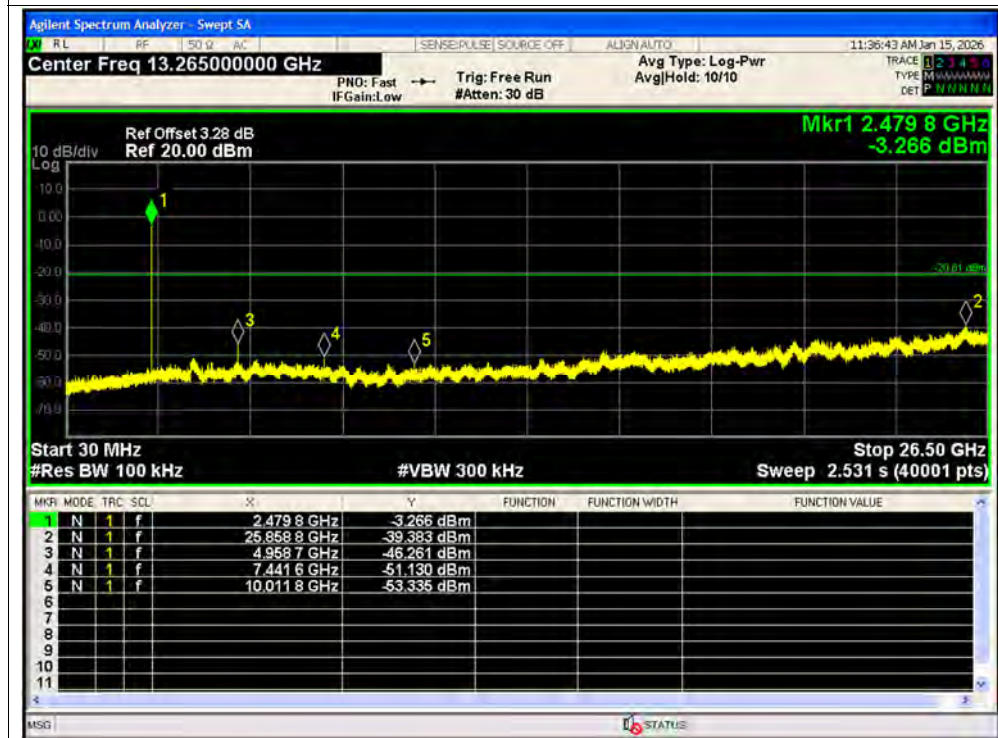
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



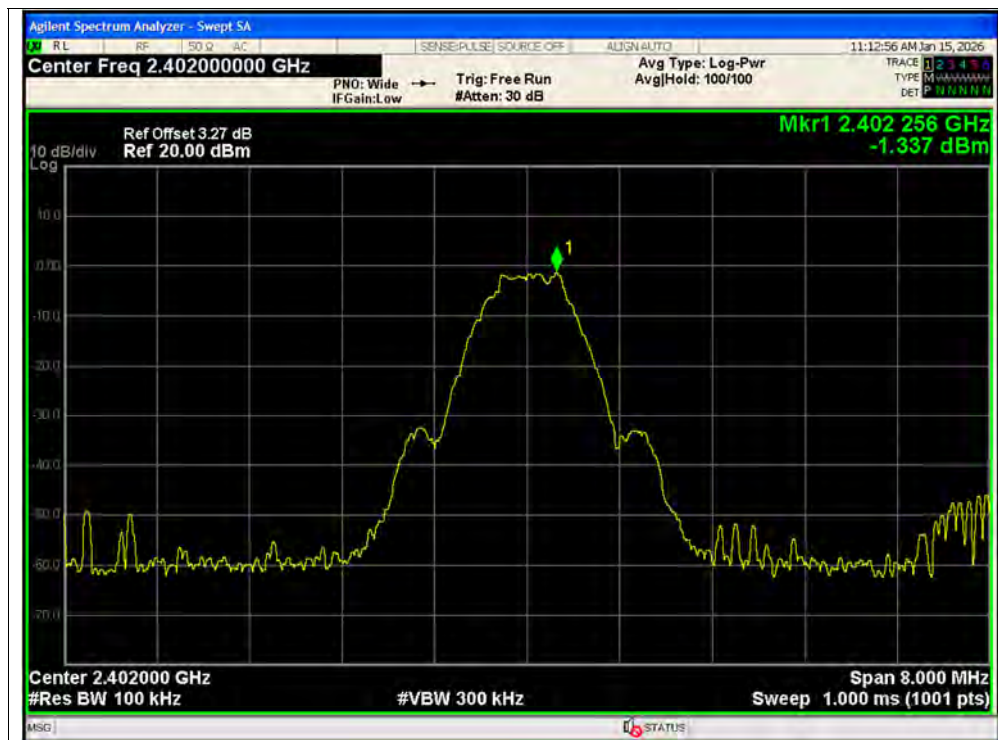
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



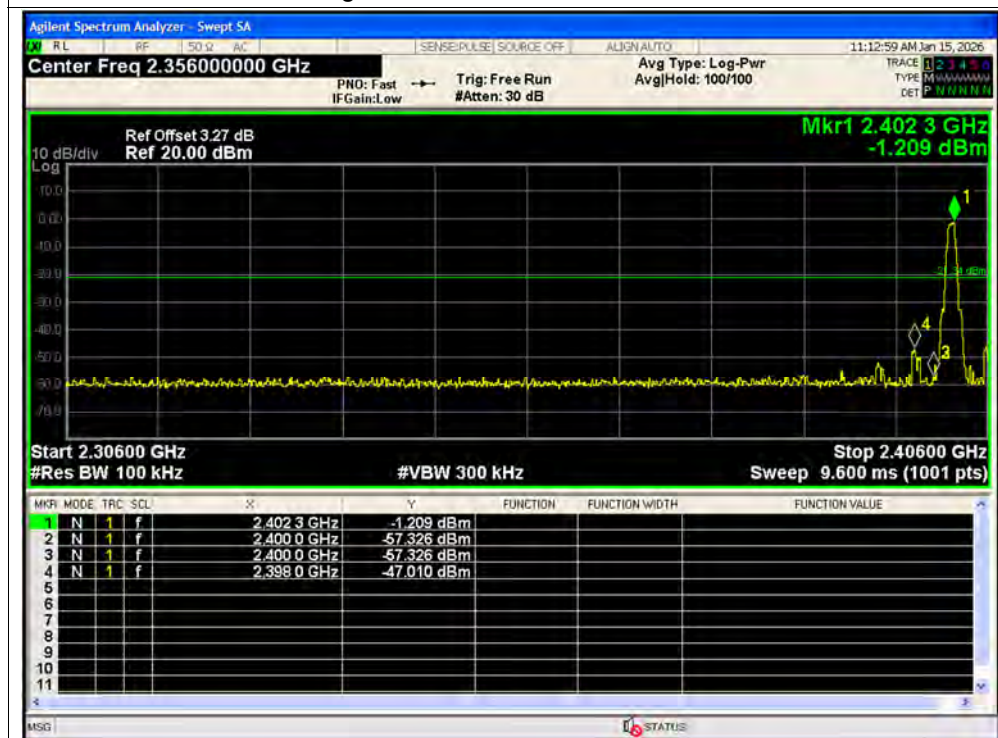
REPORT No.: SZ25120339W01

A.6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.67	-20	Pass
NVNT	BLE 1M	2480	Ant1	-46.36	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.78	-20	Pass
NVNT	BLE 2M	2480	Ant1	-44.14	-20	Pass



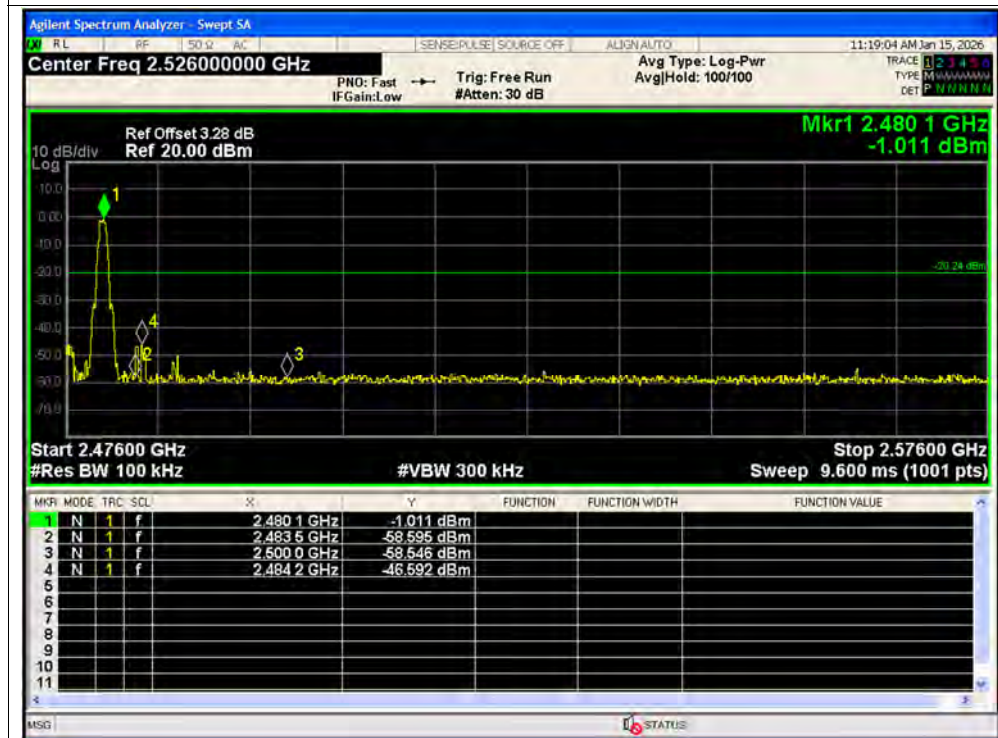
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



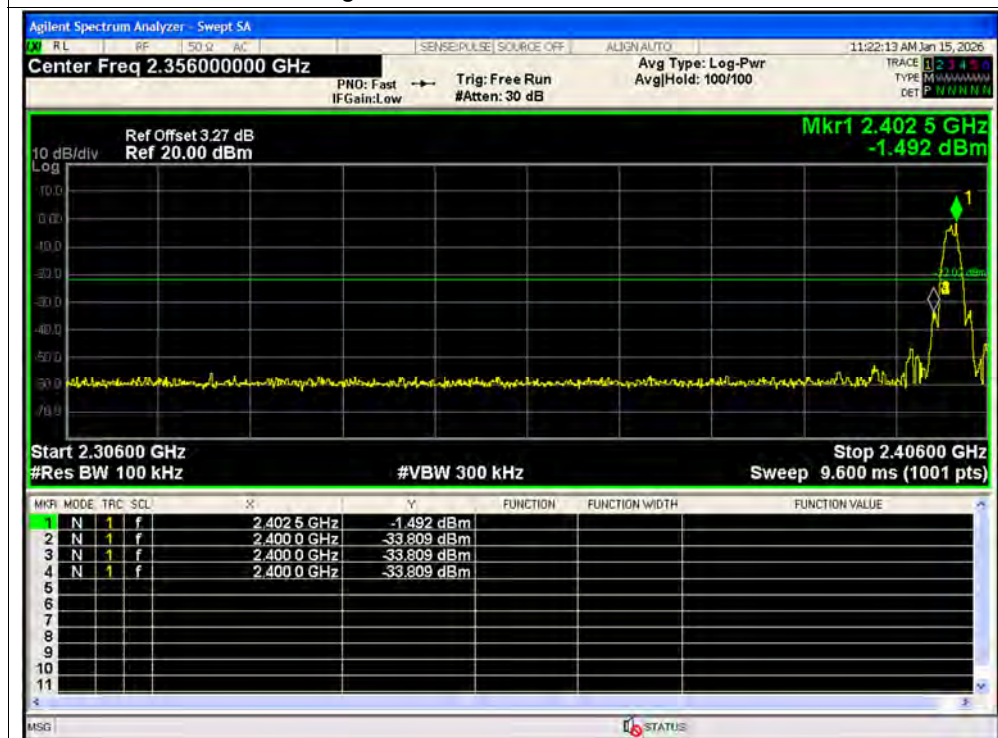
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



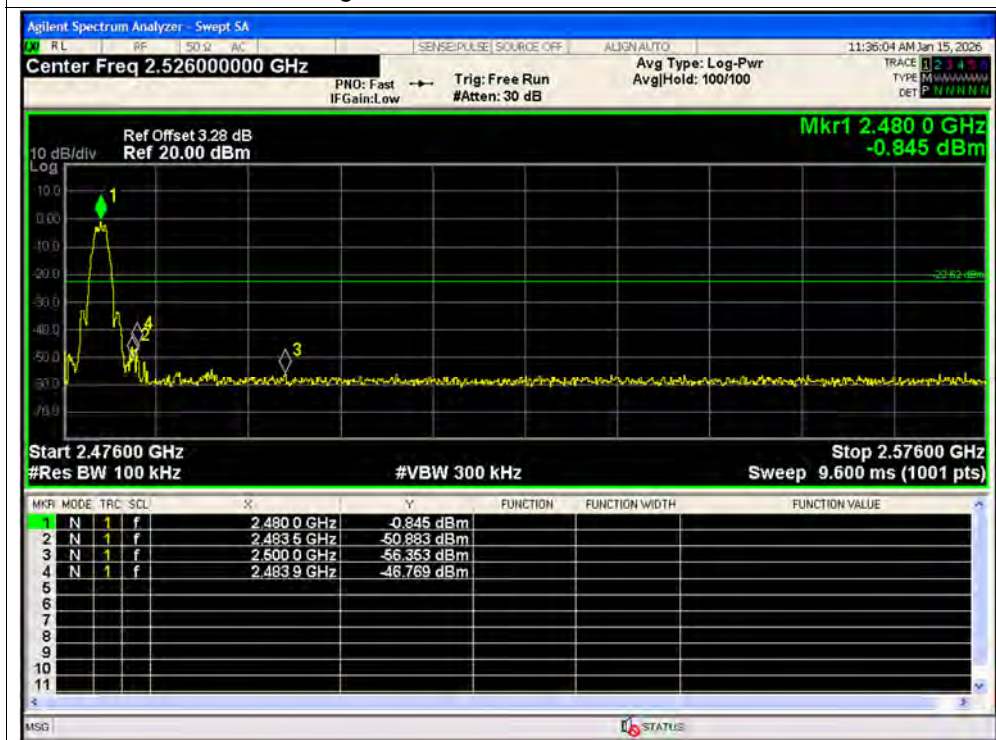
Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



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	-16.68	0	-16.68	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.09	0	-16.09	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.29	0	-16.29	8	Pass
NVNT	BLE 2M	2402	Ant1	-20.11	0	-20.11	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.37	0	-19.37	8	Pass
NVNT	BLE 2M	2480	Ant1	-18.83	0	-18.83	8	Pass



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+Notebook+Notebook adapter+Serial port board+BLE TX

Test voltage: AC 120V/60Hz

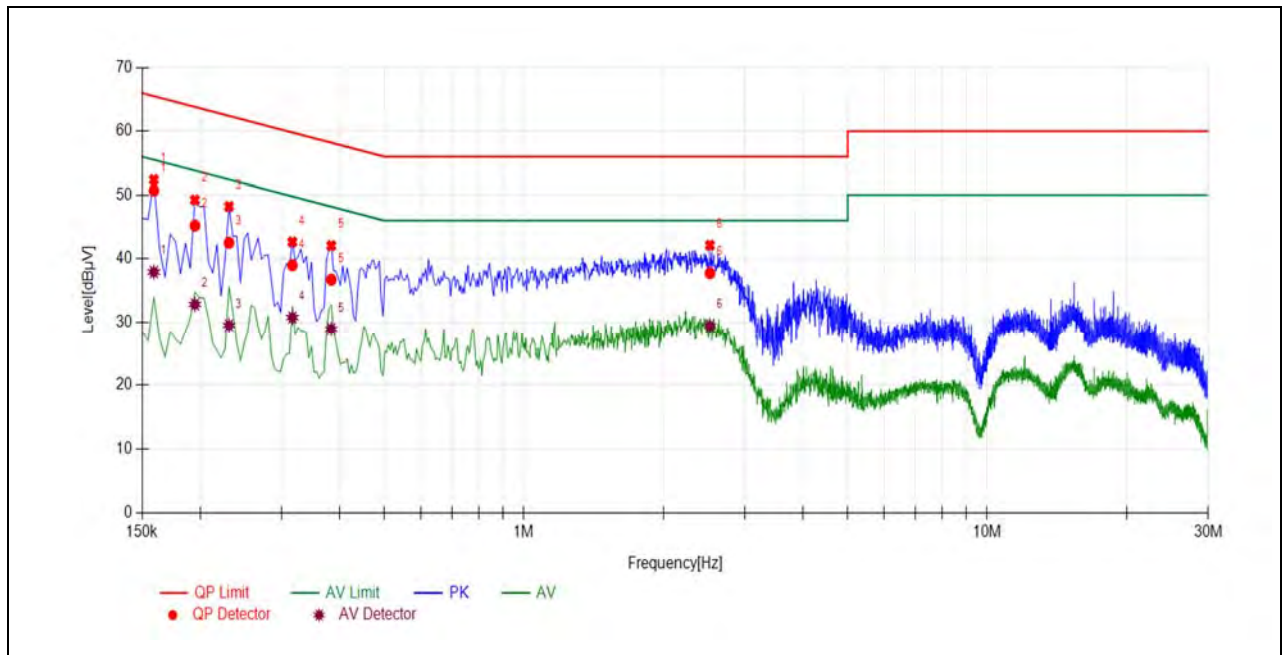
The measurement results are obtained as below:

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

U_R : Receiver Reading

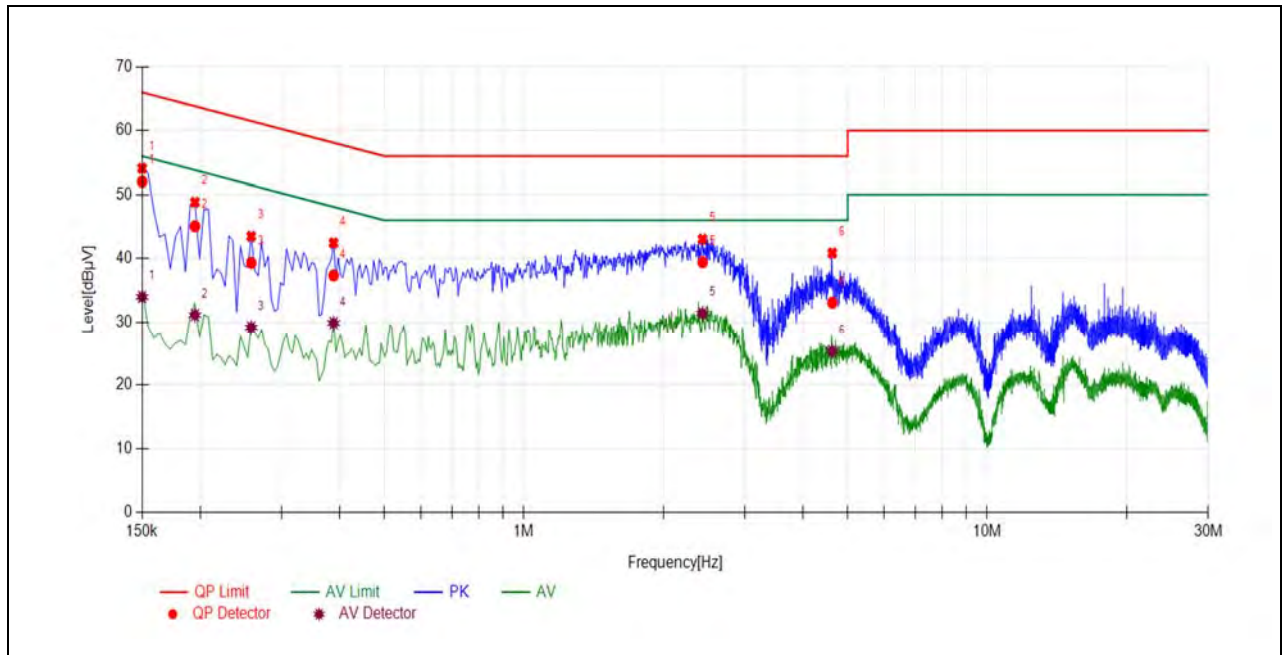
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1590	50.72	37.91	65.52	55.52	Line	PASS
2	0.1950	45.23	32.80	63.82	53.82		PASS
3	0.2310	42.53	29.48	62.41	52.41		PASS
4	0.3165	38.98	30.73	59.80	49.80		PASS
5	0.3840	36.70	28.88	58.19	48.19		PASS
6	2.5217	37.73	29.41	56.00	46.00		PASS



(N Phase)

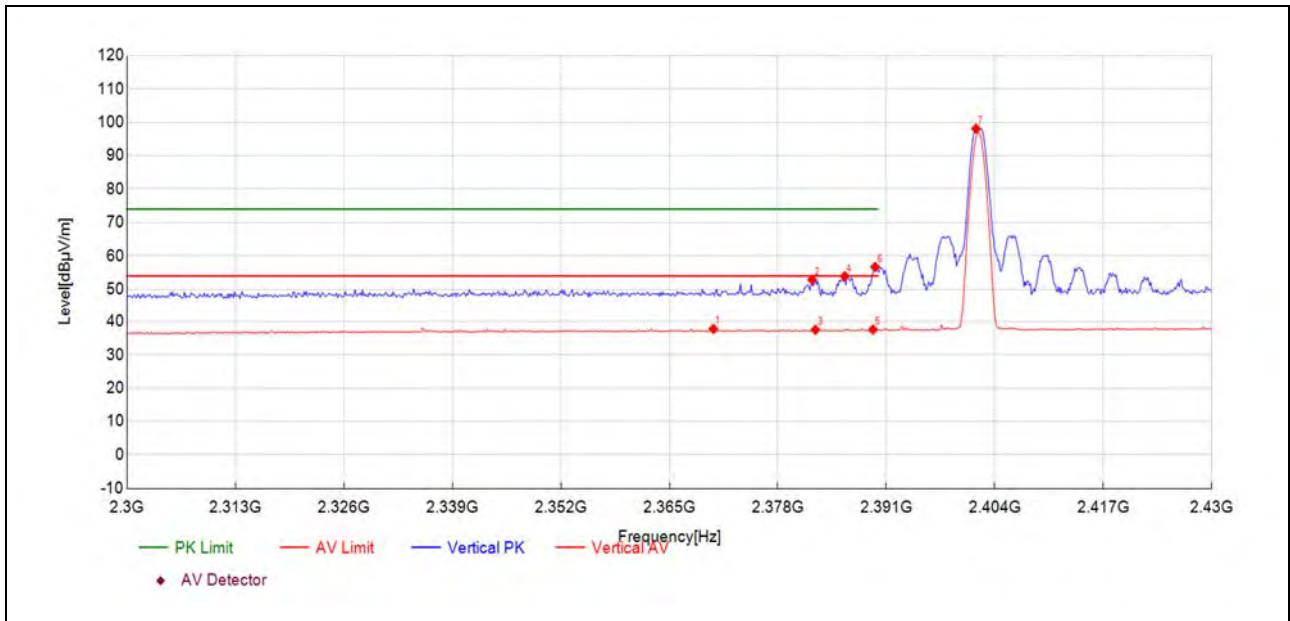
No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	52.03	33.98	66.00	56.00	Neutral	PASS
2	0.1950	45.07	31.12	63.82	53.82		PASS
3	0.2580	39.33	29.15	61.49	51.49		PASS
4	0.3885	37.35	29.85	58.10	48.10		PASS
5	2.4313	39.44	31.38	56.00	46.00		PASS
6	4.6320	33.06	25.33	56.00	46.00		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 was recorded in this test report.

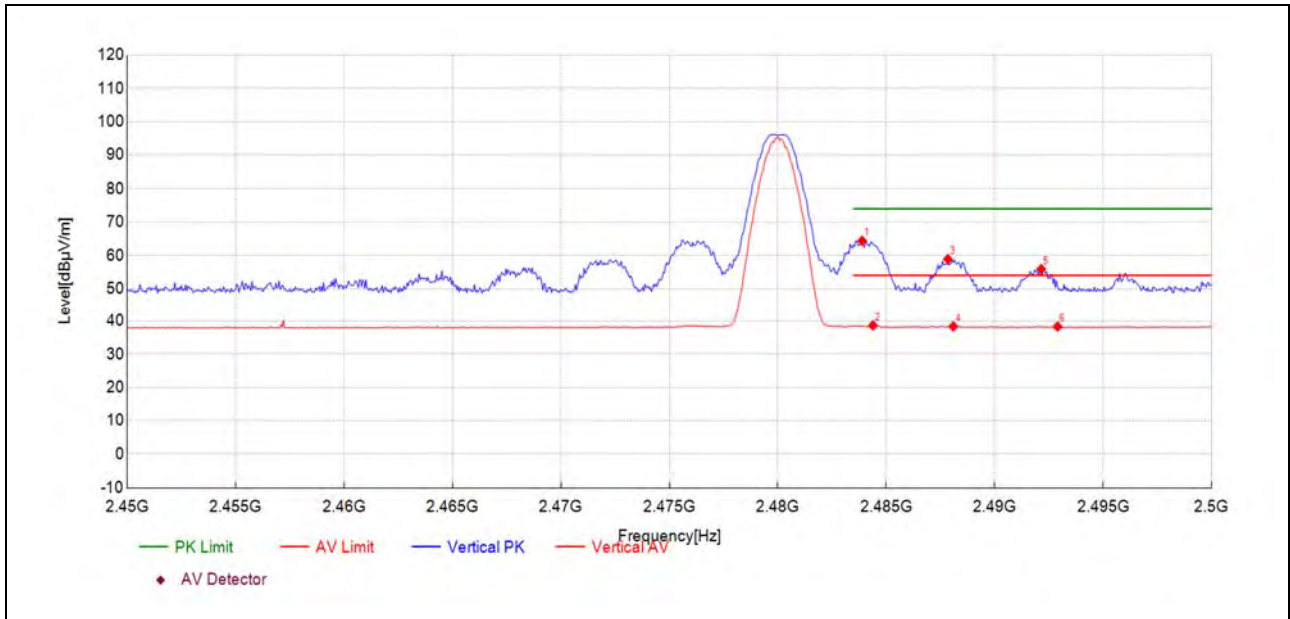
1Mbps

Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2370.27	5.4	37.83	32.470	54.00	16.17	165	185	AV	PASS
2382.11	20.3	52.85	32.510	74.00	21.15	165	351	PK	PASS
2382.50	5.1	37.57	32.520	54.00	16.43	165	176	AV	PASS
2386.02	21.4	53.90	32.530	74.00	20.10	165	0	PK	PASS
2389.40	5.1	37.60	32.540	54.00	16.40	165	157	AV	PASS
2389.66	24.1	56.68	32.540	74.00	17.32	165	70	PK	PASS
2401.76	65.5	98.14	32.600	-	-	165	13	PK	NA

Plot for Channel 39

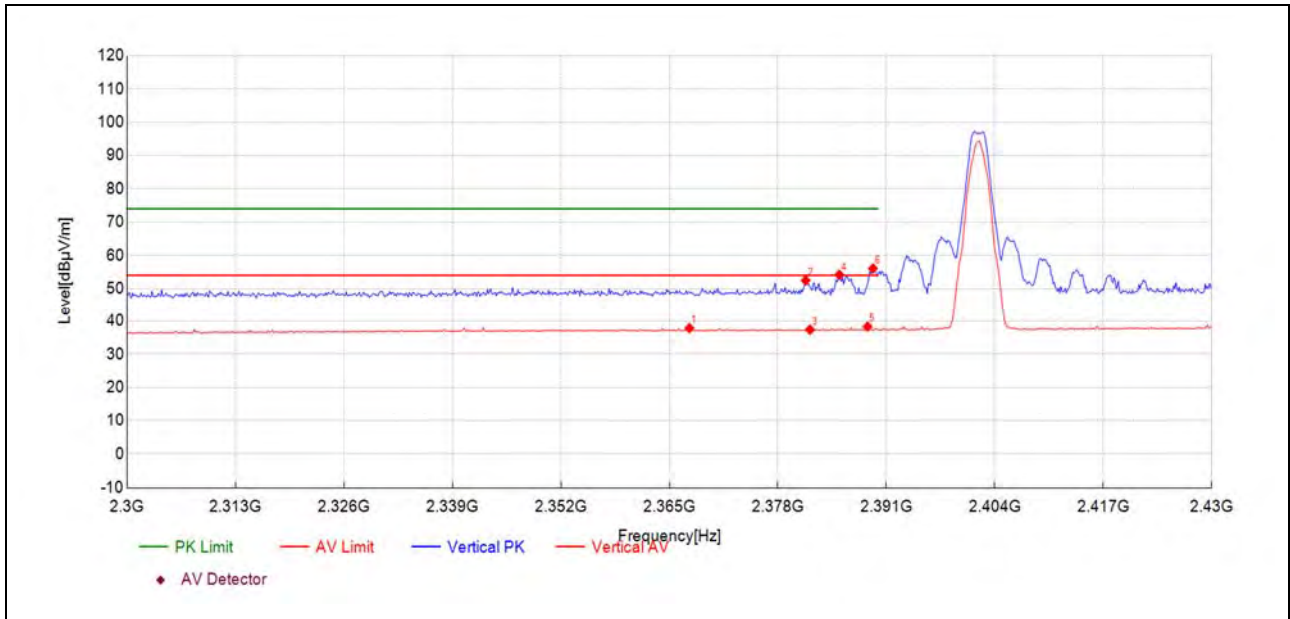


Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.88	31.4	64.38	33.030	74.00	9.62	165	47	PK	PASS
2484.38	5.6	38.65	33.030	54.00	15.35	165	135	AV	PASS
2487.84	25.9	58.90	33.020	74.00	15.10	165	66	PK	PASS
2488.09	5.4	38.37	33.020	54.00	15.63	165	0	AV	PASS
2492.14	22.9	55.90	33.020	74.00	18.10	165	37	PK	PASS
2492.89	5.3	38.29	33.010	54.00	15.71	165	242	AV	PASS



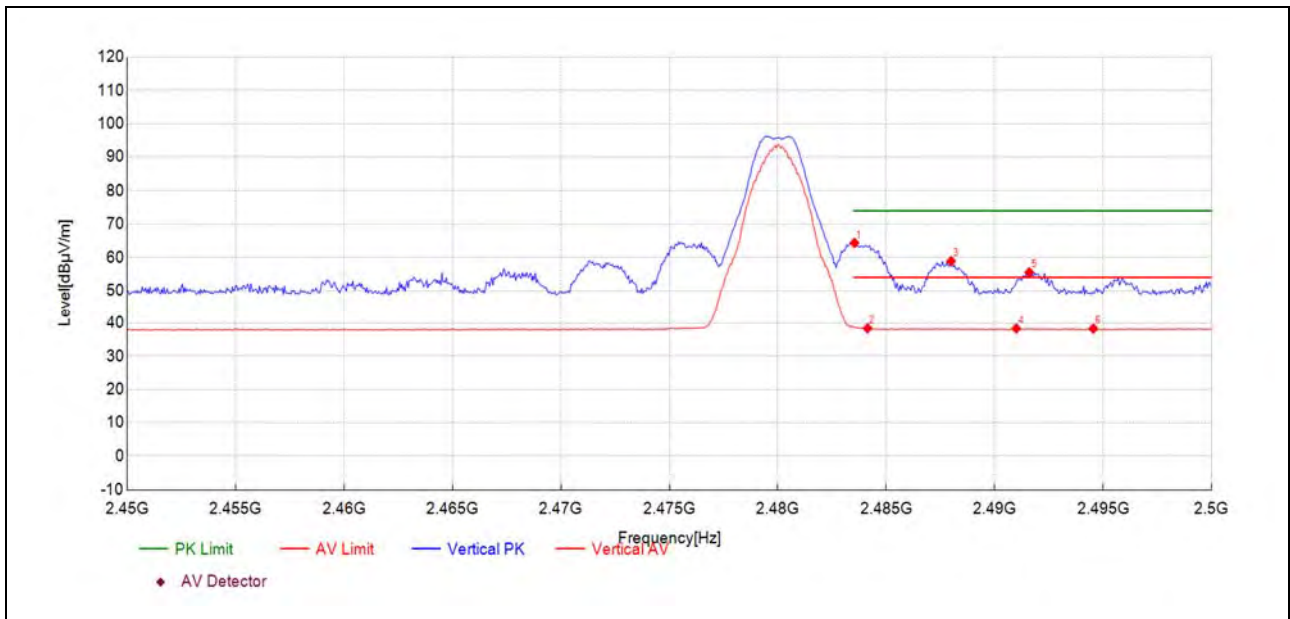
2Mbps

Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2367.41	5.4	37.83	32.460	54.00	16.17	165	49	AV	PASS
2381.33	20.0	52.47	32.510	74.00	21.53	165	147	PK	PASS
2381.85	4.9	37.36	32.510	54.00	16.64	165	99	AV	PASS
2385.37	21.6	54.17	32.530	74.00	19.83	165	99	PK	PASS
2388.75	5.8	38.30	32.540	54.00	15.70	165	177	AV	PASS
2389.40	23.5	56.07	32.540	74.00	17.93	165	128	PK	PASS

Plot for Channel 39



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.53	31.3	64.36	33.030	74.00	9.64	165	56	PK	PASS
2484.13	5.4	38.40	33.030	54.00	15.60	165	2	AV	PASS
2487.99	25.9	58.90	33.020	74.00	15.10	165	47	PK	PASS
2490.99	5.3	38.34	33.020	54.00	15.66	165	105	AV	PASS
2491.59	22.5	55.50	33.020	74.00	18.50	165	56	PK	PASS
2494.54	5.3	38.29	33.010	54.00	15.71	165	56	AV	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.

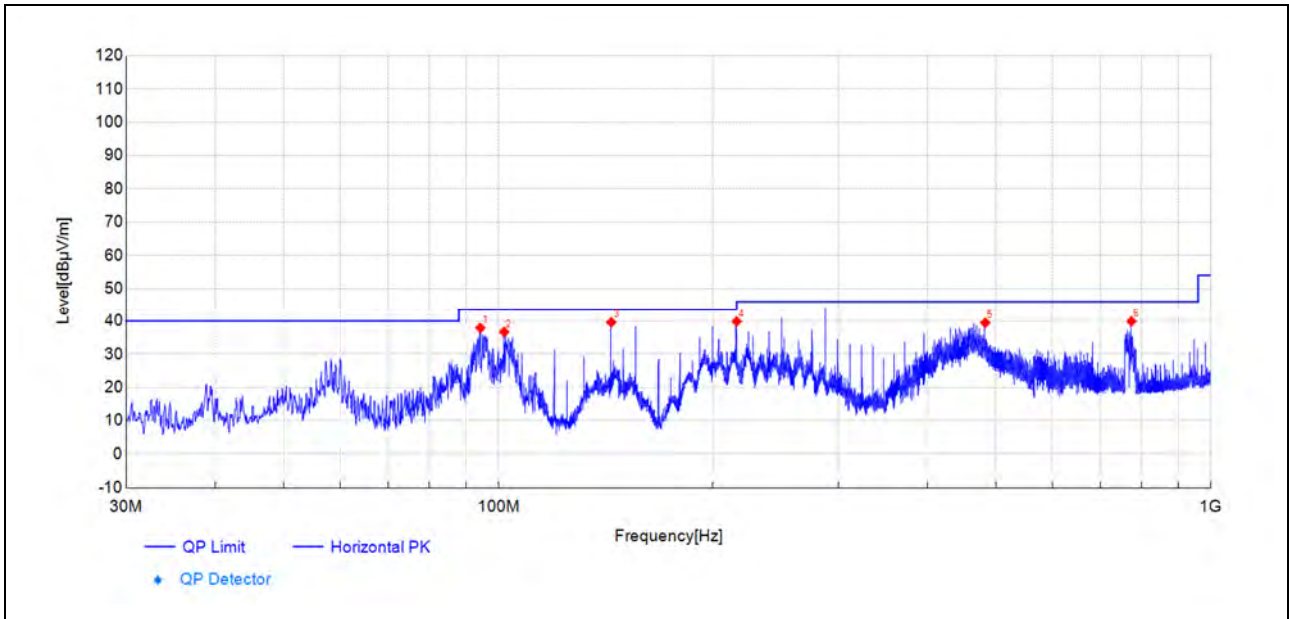
Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note4: All test modes were considered and evaluated respectively by performing full test, only the worst data were recorded.



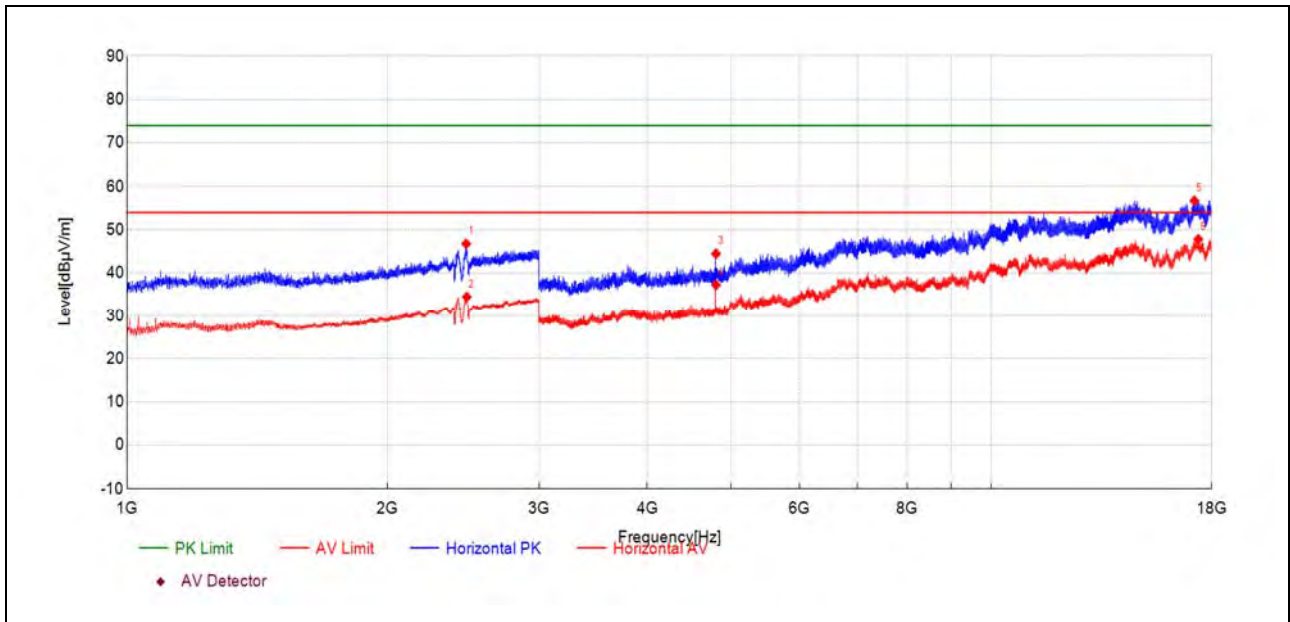
1Mbps

Plot for Channel 0



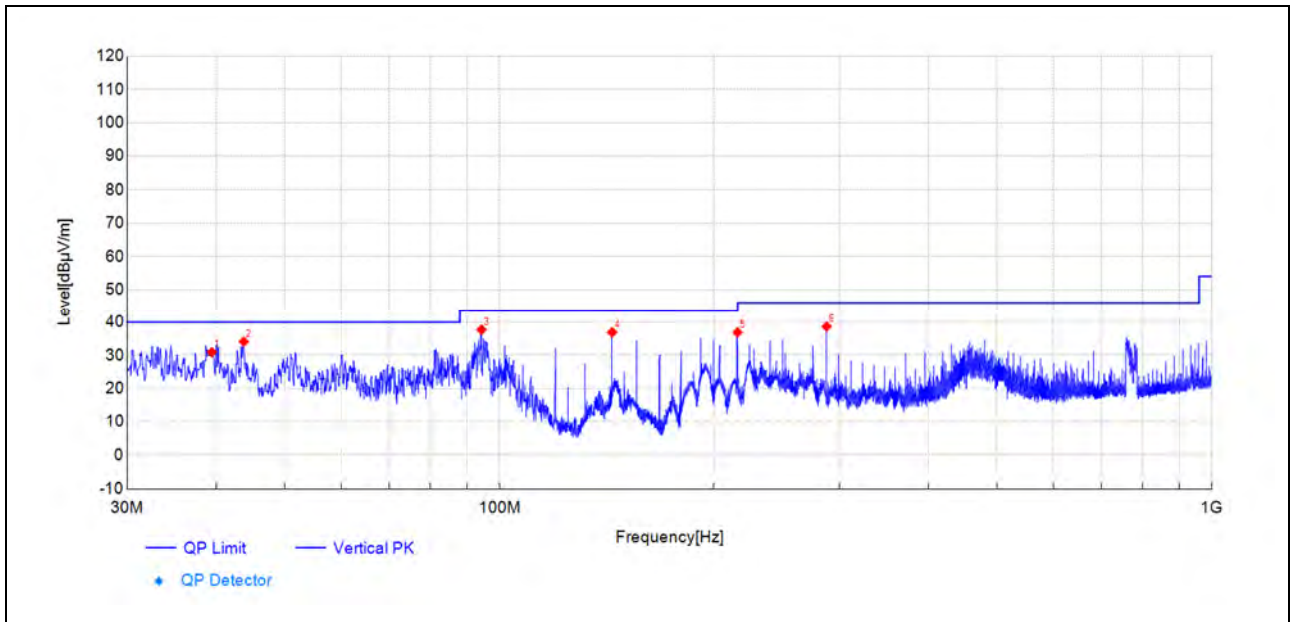
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
94.32	68.7	37.90	-30.800	43.50	5.60	165	314	PK	PASS
101.84	67.0	36.70	-30.310	43.50	6.80	165	328	PK	PASS
144.00	73.2	39.60	-33.550	43.50	3.90	165	49	PK	PASS
216.02	69.4	39.85	-29.500	46.00	6.15	165	189	PK	PASS
482.52	61.7	39.47	-22.270	46.00	6.53	165	112	PK	PASS
773.95	56.9	39.91	-16.980	46.00	6.09	165	37	PK	PASS



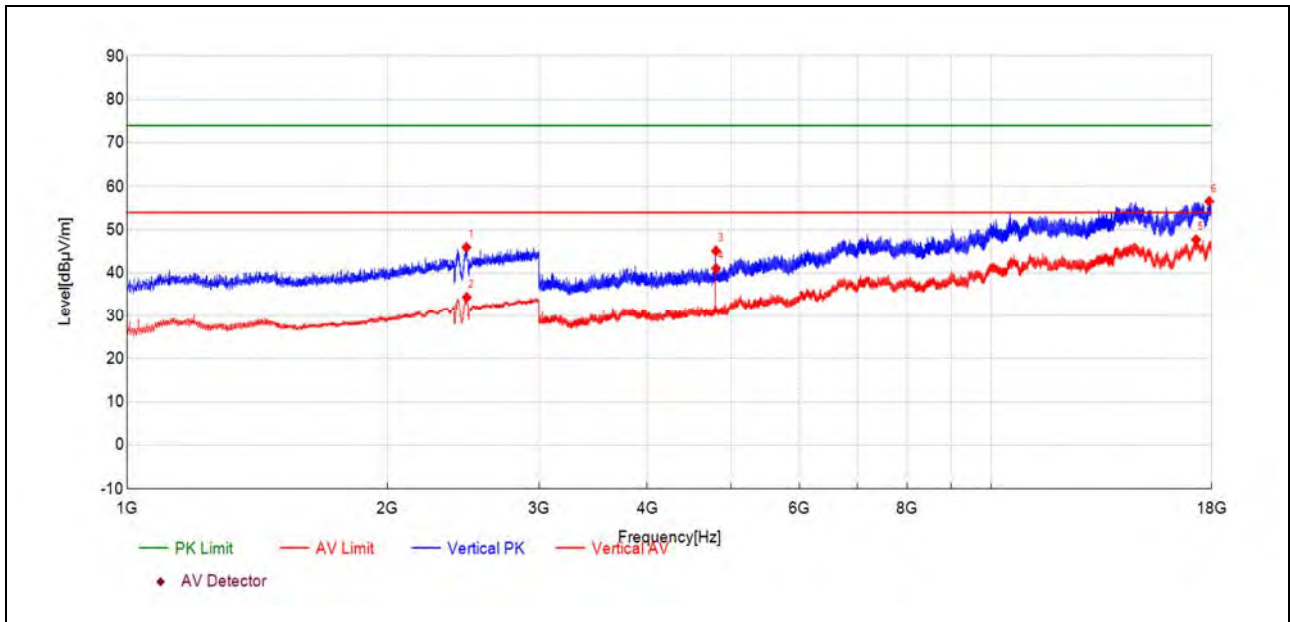
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2469.09	40.9	46.78	5.920	74.00	27.22	165	351	PK	PASS
2472.69	28.6	34.49	5.910	54.00	19.51	165	197	AV	PASS
4803.48	49.6	44.48	-5.150	74.00	29.52	165	128	PK	PASS
4804.34	42.4	37.25	-5.140	54.00	16.75	165	128	AV	PASS
17187.83	36.9	56.75	19.850	74.00	17.25	165	128	PK	PASS
17367.84	28.1	47.85	19.750	54.00	6.15	165	48	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

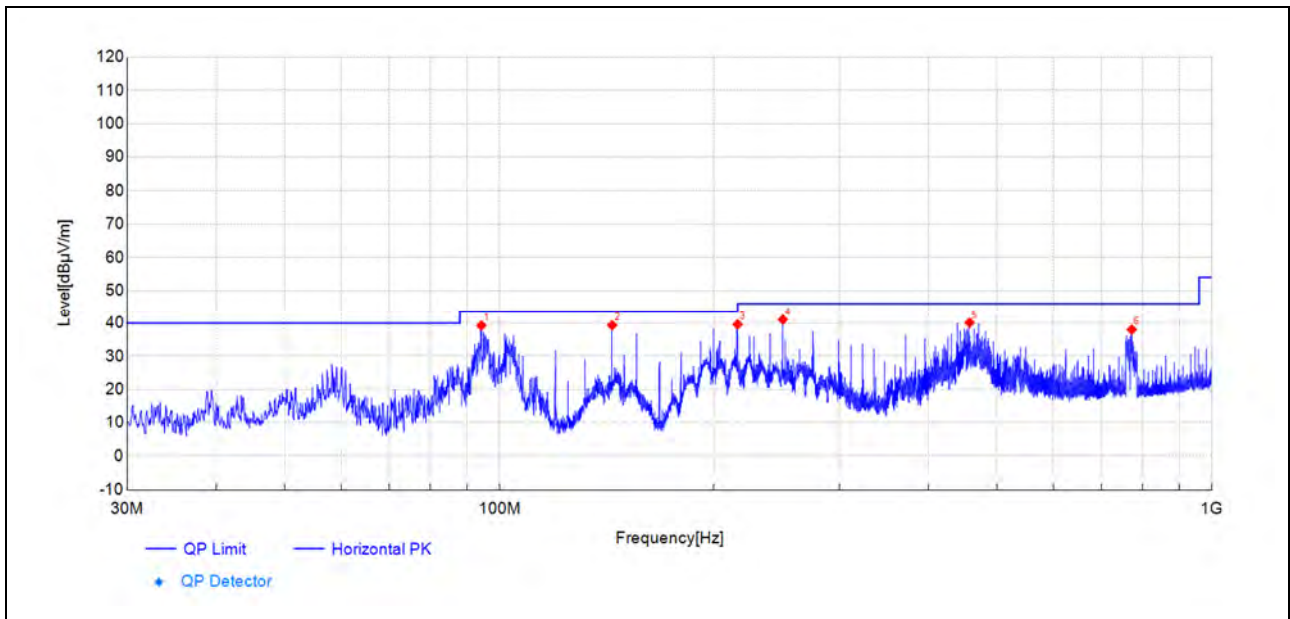
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
39.47	60.2	30.90	-29.270	40.00	9.10	165	0	PK	PASS
43.76	62.5	34.09	-28.370	40.00	5.91	165	325	PK	PASS
94.38	68.5	37.73	-30.790	43.50	5.77	165	350	PK	PASS
144.00	70.5	36.93	-33.550	43.50	6.57	165	123	PK	PASS
215.96	66.4	36.90	-29.500	43.50	6.60	165	59	PK	PASS
287.98	66.0	38.66	-27.320	46.00	7.34	165	85	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

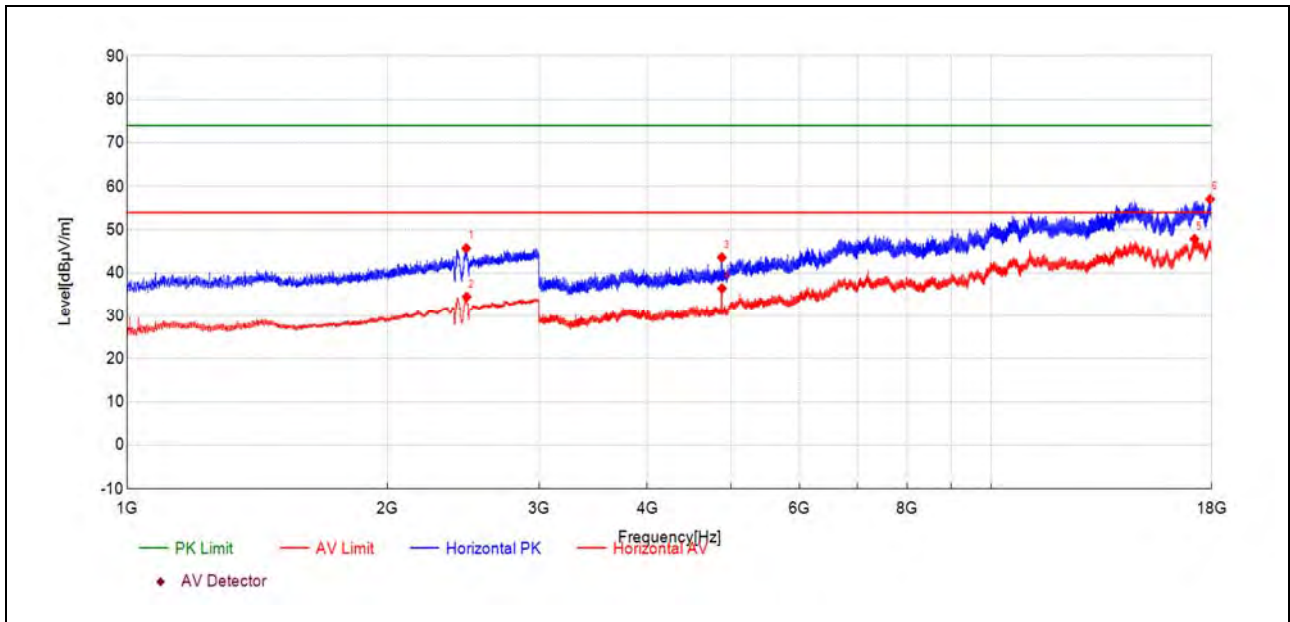
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2470.69	40.1	45.97	5.920	74.00	28.03	165	77	PK	PASS
2473.09	28.5	34.38	5.910	54.00	19.62	165	191	AV	PASS
4803.48	50.3	45.14	-5.150	74.00	28.86	165	169	PK	PASS
4803.91	46.2	41.09	-5.150	54.00	12.91	165	169	AV	PASS
17267.12	28.5	47.75	19.230	54.00	6.25	165	169	AV	PASS
17880.85	37.2	56.60	19.430	74.00	17.40	165	77	PK	PASS

Plot for Channel 19



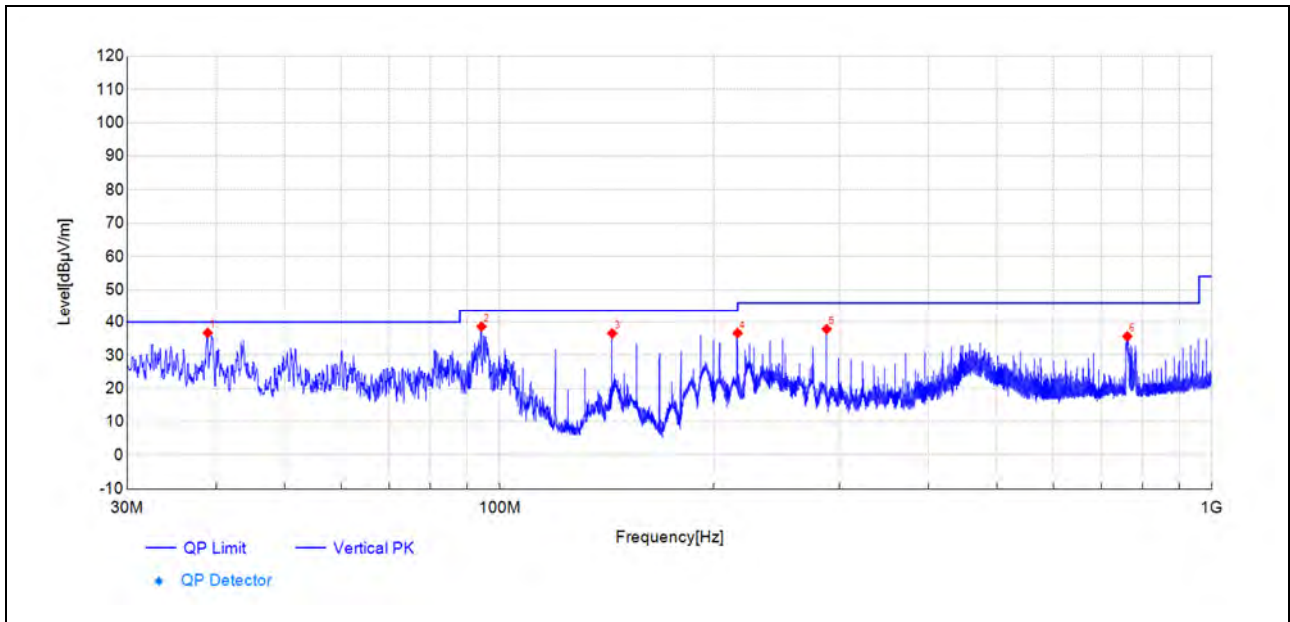
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
94.32	70.0	39.24	-30.800	43.50	4.26	165	314	PK	PASS
144.00	72.9	39.34	-33.550	43.50	4.16	165	48	PK	PASS
216.02	69.1	39.61	-29.500	46.00	6.39	165	174	PK	PASS
250.00	69.2	41.07	-28.120	46.00	4.93	165	124	PK	PASS
457.24	63.0	40.11	-22.930	46.00	5.89	165	86	PK	PASS
772.30	55.0	38.03	-16.980	46.00	7.97	165	138	PK	PASS



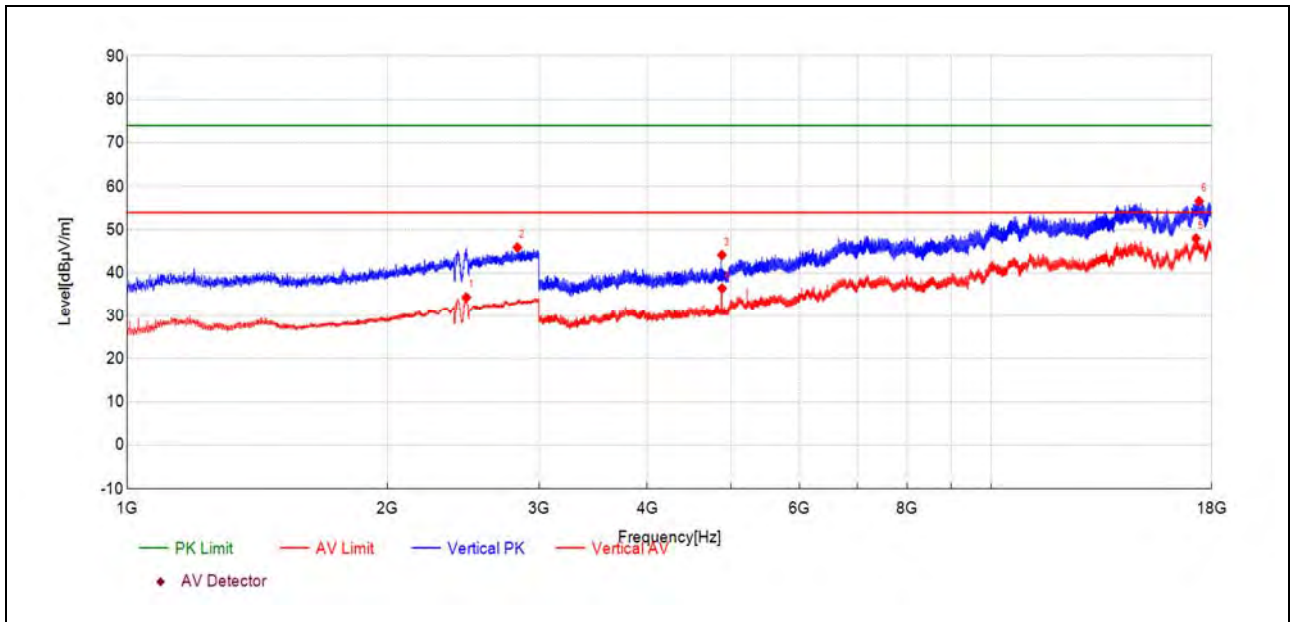
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2469.09	39.8	45.74	5.920	74.00	28.26	165	146	PK	PASS
2471.89	28.6	34.48	5.910	54.00	19.52	165	37	AV	PASS
4879.77	48.6	43.62	-5.000	74.00	30.38	165	168	PK	PASS
4880.63	41.4	36.43	-5.010	54.00	17.57	165	248	AV	PASS
17189.98	28.0	47.89	19.860	54.00	6.11	165	36	AV	PASS
17924.57	38.0	57.09	19.140	74.00	16.91	165	275	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
38.94	66.2	36.73	-29.430	40.00	3.27	165	0	PK	PASS
94.38	69.4	38.64	-30.790	43.50	4.86	165	0	PK	PASS
144.00	70.1	36.59	-33.550	43.50	6.91	165	96	PK	PASS
216.02	66.2	36.69	-29.500	46.00	9.31	165	59	PK	PASS
287.98	65.2	37.88	-27.320	46.00	8.12	165	109	PK	PASS
761.42	52.7	35.70	-16.970	46.00	10.30	165	122	PK	PASS

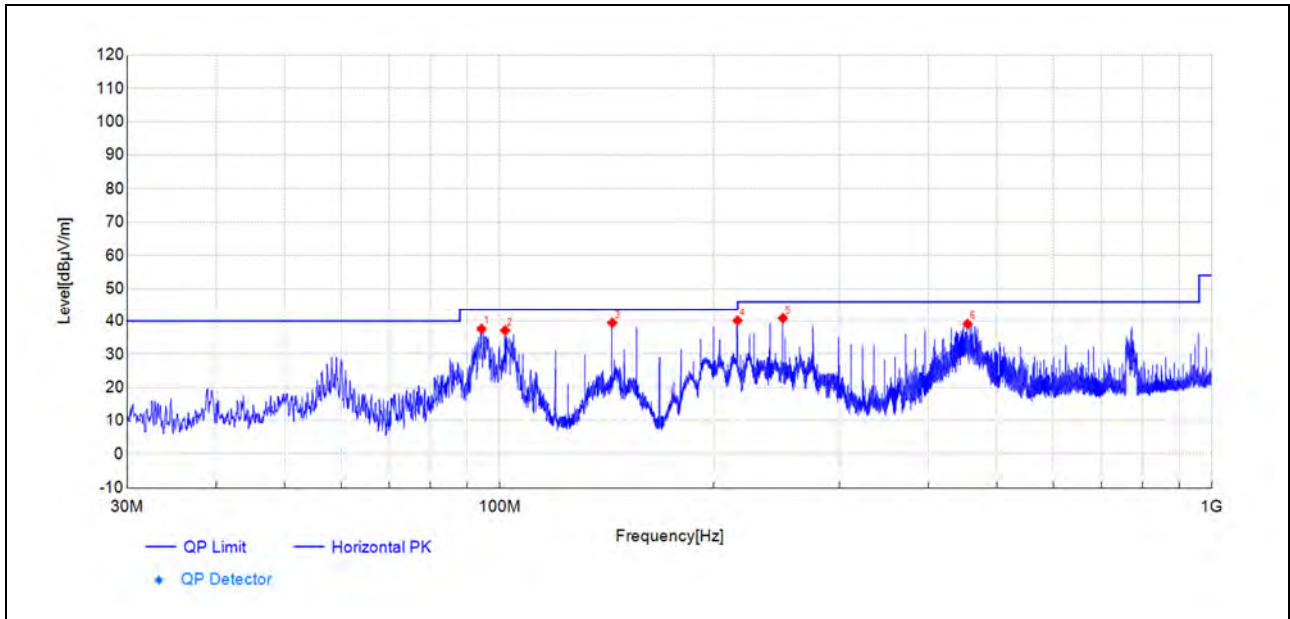


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2469.89	28.4	34.36	5.920	54.00	19.64	165	148	AV	PASS
2829.97	38.6	45.93	7.330	74.00	28.07	165	0	PK	PASS
4879.77	49.2	44.18	-5.000	74.00	29.82	165	64	PK	PASS
4882.34	41.5	36.45	-5.020	54.00	17.55	165	158	AV	PASS
17261.55	28.7	48.03	19.290	54.00	5.97	165	78	AV	PASS
17405.55	36.5	56.65	20.200	74.00	17.35	165	346	PK	PASS

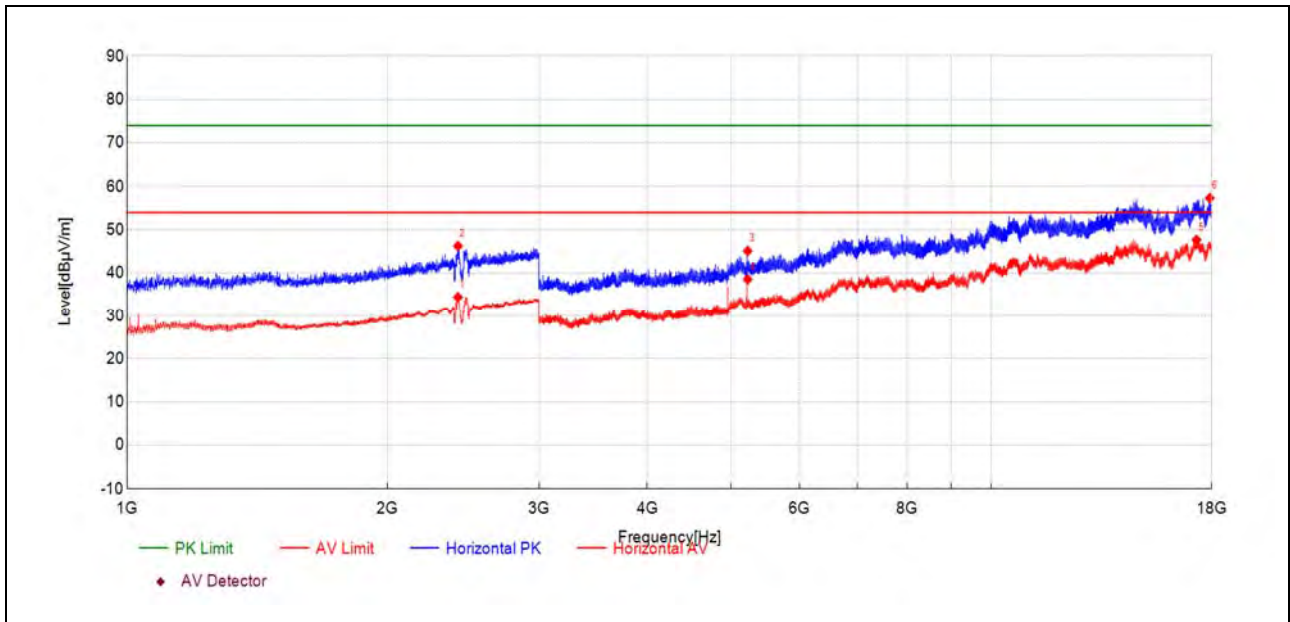


Plot for Channel 39



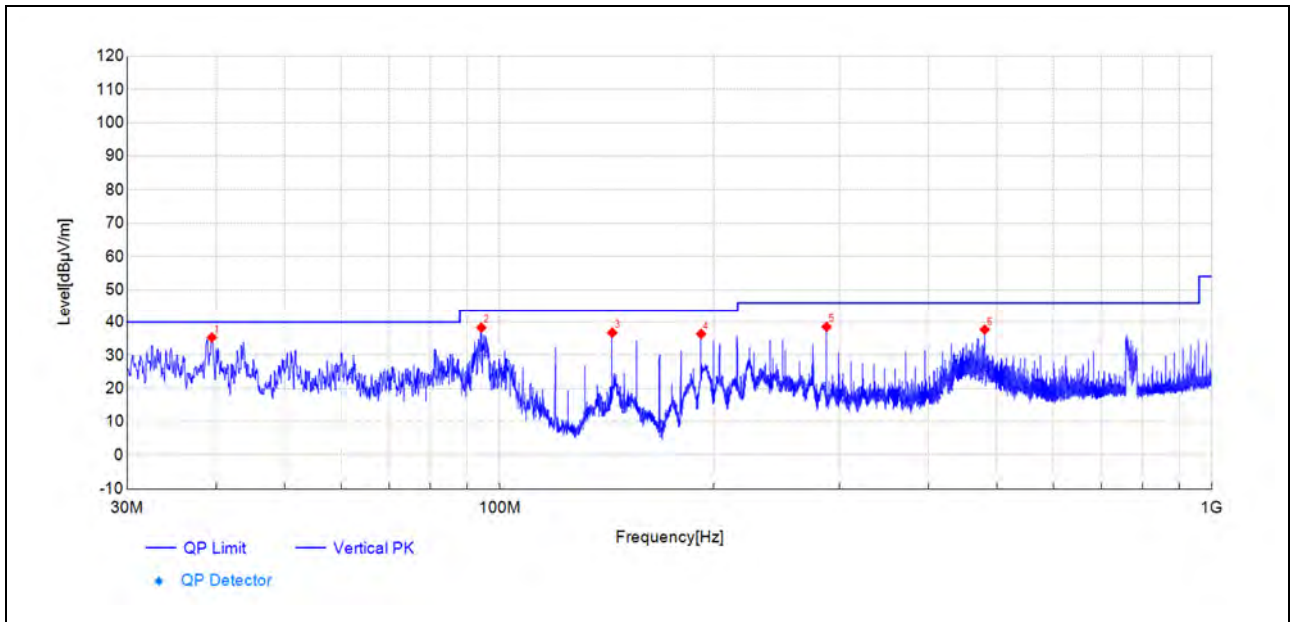
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
94.38	68.4	37.60	-30.790	43.50	5.90	165	314	PK	PASS
101.84	67.5	37.16	-30.310	43.50	6.34	165	354	PK	PASS
144.00	73.0	39.47	-33.550	43.50	4.03	165	49	PK	PASS
215.96	69.6	40.12	-29.500	43.50	3.38	165	201	PK	PASS
250.00	69.0	40.85	-28.120	46.00	5.15	165	124	PK	PASS
454.24	62.2	39.10	-23.050	46.00	6.90	165	100	PK	PASS



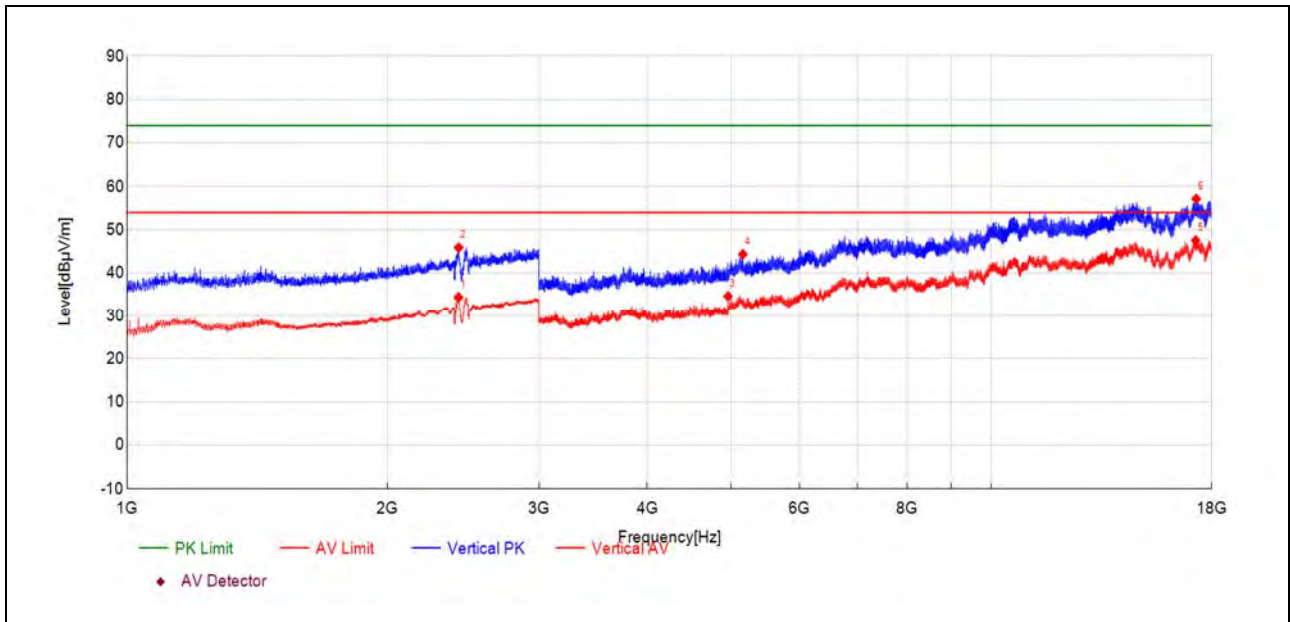
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2415.08	29.0	34.39	5.440	54.00	19.61	165	79	AV	PASS
2415.48	40.8	46.28	5.450	74.00	27.72	165	331	PK	PASS
5226.92	48.3	45.11	-3.220	74.00	28.89	165	184	PK	PASS
5227.78	41.8	38.57	-3.210	54.00	15.43	165	170	AV	PASS
17285.12	28.6	47.69	19.050	54.00	6.31	165	250	AV	PASS
17908.71	38.0	57.37	19.400	74.00	16.63	165	264	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
39.47	64.6	35.35	-29.270	40.00	4.65	165	0	PK	PASS
94.32	69.1	38.32	-30.800	43.50	5.18	165	0	PK	PASS
144.00	70.3	36.77	-33.550	43.50	6.73	165	123	PK	PASS
191.97	66.0	36.40	-29.600	43.50	7.10	165	59	PK	PASS
287.98	65.9	38.58	-27.320	46.00	7.42	165	97	PK	PASS
480.11	60.1	37.72	-22.330	46.00	8.28	165	21	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2418.68	28.9	34.38	5.500	54.00	19.62	165	38	AV	PASS
2420.28	40.4	45.89	5.520	74.00	28.11	165	131	PK	PASS
4960.77	39.2	34.62	-4.600	54.00	19.38	165	49	AV	PASS
5160.06	47.1	44.37	-2.770	74.00	29.63	165	169	PK	PASS
17246.98	28.1	47.55	19.440	54.00	6.45	165	357	AV	PASS
17271.84	38.0	57.17	19.180	74.00	16.83	165	76	PK	PASS



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

————— END OF REPORT —————