



REPORT No.: SZ24050062W01

TEST REPORT

APPLICANT : WUXI IDATA TECHNOLOGY
COMPANY LTD.

PRODUCT NAME : Charging stand

MODEL NAME : TZ16

BRAND NAME : iData

FCC ID : 2ADE3TZ16

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2024-05-11

TEST DATE : 2024-05-15 to 2024-06-06

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Change History		
Version	Date	Reason for change
1.0	2024-06-20	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	N/A	Duty Cycle of Test Signal	May 15, 2024	Su Xiaoxian	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	May 15, 2024	Su Xiaoxian	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	May 15, 2024	Su Xiaoxian	PASS	No deviation
5	15.247(a)	Bandwidth	May 15, 2024	Su Xiaoxian	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	May 15, 2024	Su Xiaoxian	PASS	No deviation
7	15.247(e)	Power Spectral Density	May 15, 2024	Su Xiaoxian	PASS	No deviation
8	15.207	Conducted Emission	May 20, 2024	Wang Deyong	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Jun. 06, 2024	Yang Lian	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Jun. 04, 2024	Yang Lian	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



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	2024.02.19	2025.02.18
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	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	MY56400093	N9038A	KEYSIGHT	2024.01.25	2025.01.24
LISN	8127449	NSLK 8127	Schwarzbeck	2024.02.02	2025.02.01
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2023.06.27	2024.06.26
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	N/A	N/A

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
TS+ -[JS36-RSE]	Tonscend	V3.0.0.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2023.06.21	2024.06.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2023.06.26	2024.06.25
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2023.07.01	2024.06.30
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2023.07.04	2024.07.03
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09



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	WUXI IDATA TECHNOLOGY COMPANY LTD.
Applicant Address	Floor 11,Building B1,Wuxi Binhu National Sensing, Information Center,No.999 Gaolang East Road, Wuxi, China
Manufacturer	WUXI IDATA TECHNOLOGY COMPANY LTD.
Manufacturer Address	Floor 11,Building B1,Wuxi Binhu National Sensing, Information Center,No.999 Gaolang East Road, Wuxi, China

2.2. Information of EUT

Product Name:	Charging stand	
Sample No.:	2#	
Hardware Version:	V2	
Software Version:	N/A	
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:	5.24dBi	
Accessory Information:	AC Adapter	
	Brand Name:	N/A
	Model No.:	FJ-SW1260502000UN
	Serial No.:	N/A
	Rated Output:	5V $\overline{\text{---}}$ 2A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.4A
	Manufacturer:	SHENZHEN FUJIA APPLIANCE CO., LTD.
	USB Cable	
	Model No.:	00150-21102501
	Manufacturer:	Trangjan Technology Group (Dongguan) Co., Ltd

Note 1: We use the dedicated software to control the EUT continuous transmission.

Note 2: 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

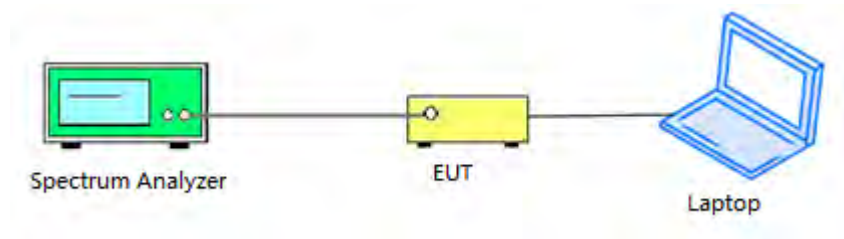
Test mode is used to control the EUT under the maximum power level during test.

2.5. Test Conditions

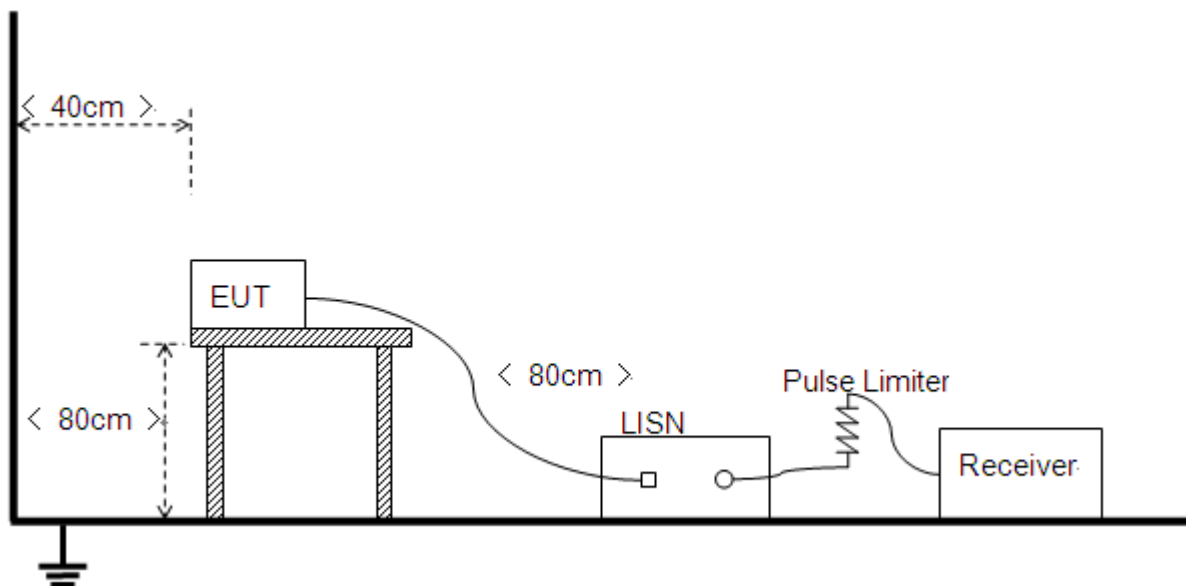
Temperature (°C)	15-35
Relative Humidity (%)	30-60
Atmospheric Pressure (kPa)	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

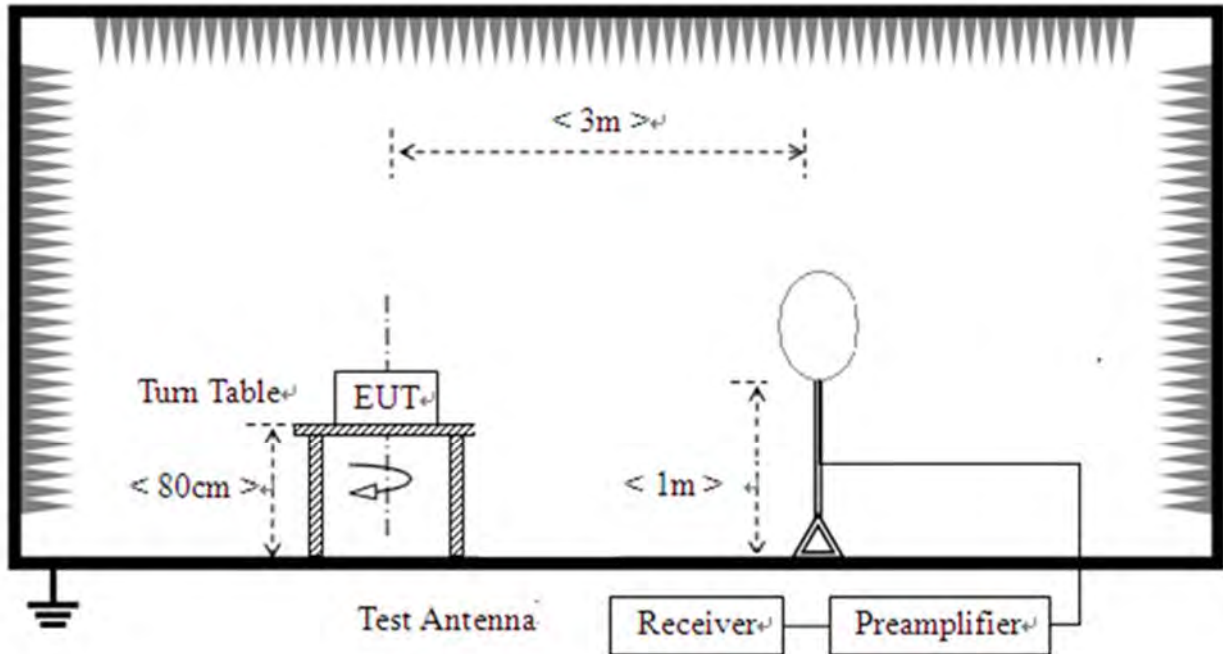


2.6.2. Conducted Emission Measurement

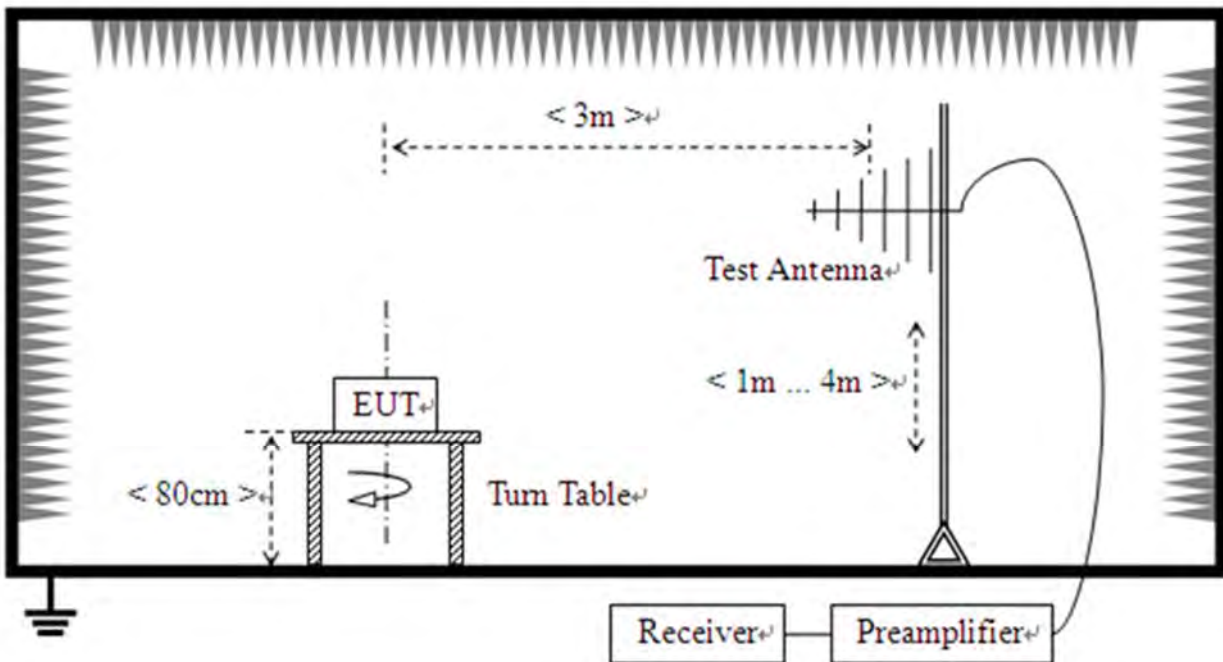


2.6.3.Radiation Measurement

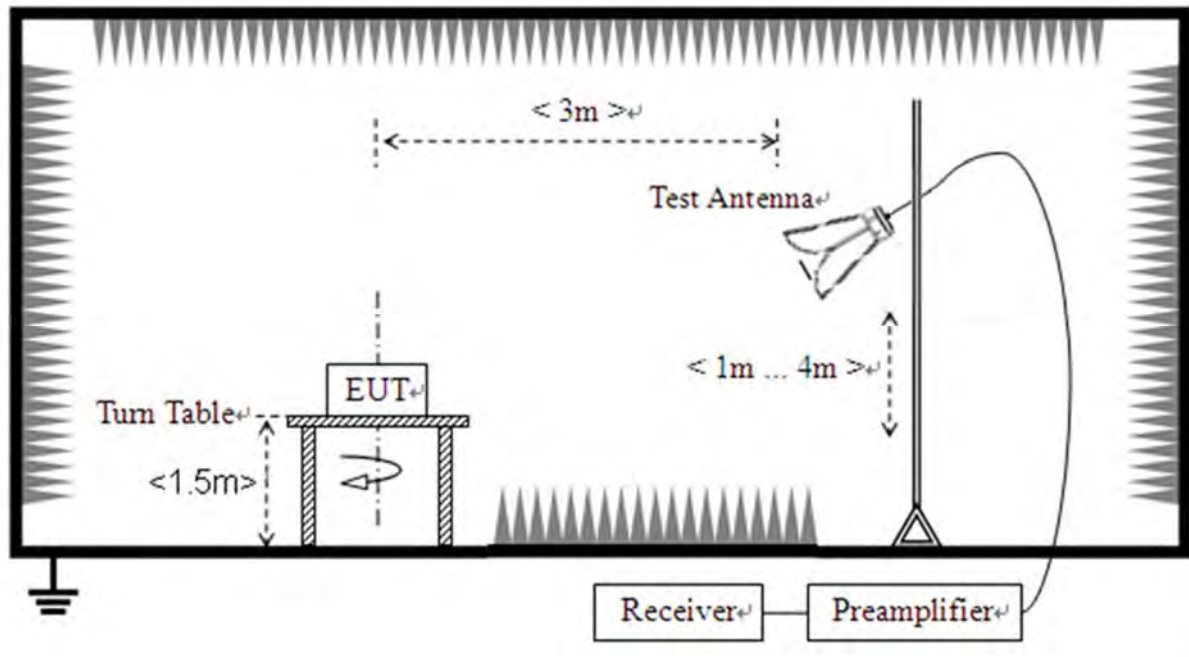
1) For radiated emissions from 9kHz to 30MHz



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

Inside of the EUT has a PIFA antenna coupled with the metal shrapnel. Please refer to the EUT internal photos.

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: 2013.

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 ($\mu\text{V}/\text{m}$)	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

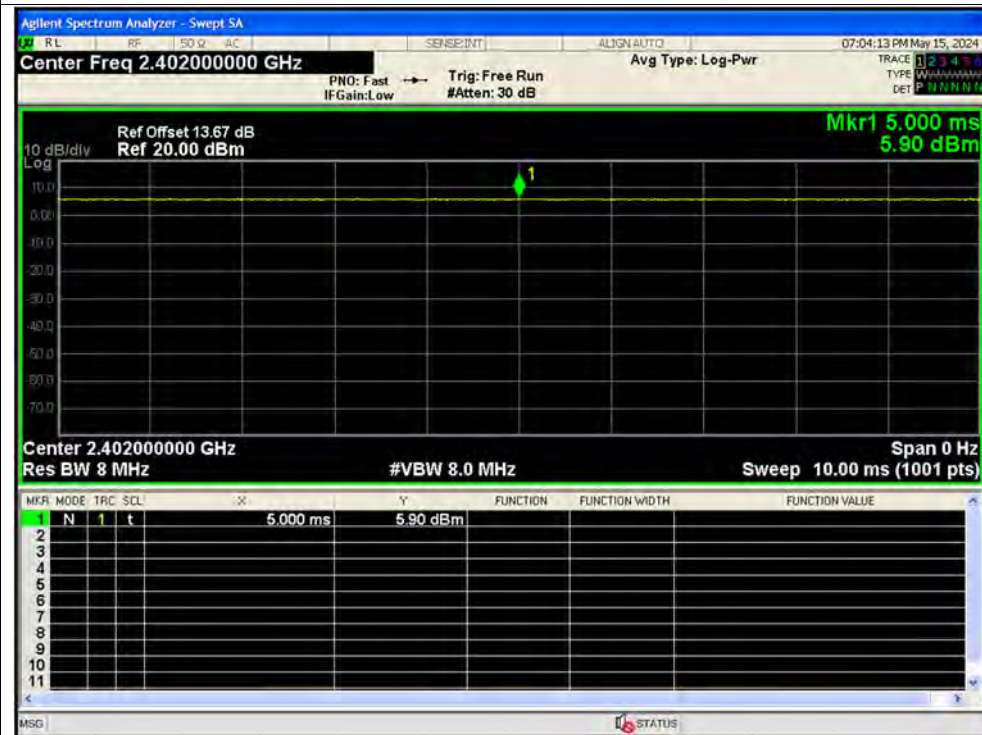
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0
NVNT	BLE 1M	2440	Ant1	100	0	0
NVNT	BLE 1M	2480	Ant1	100	0	0
NVNT	BLE 2M	2402	Ant1	100	0	0
NVNT	BLE 2M	2440	Ant1	100	0	0
NVNT	BLE 2M	2480	Ant1	100	0	0

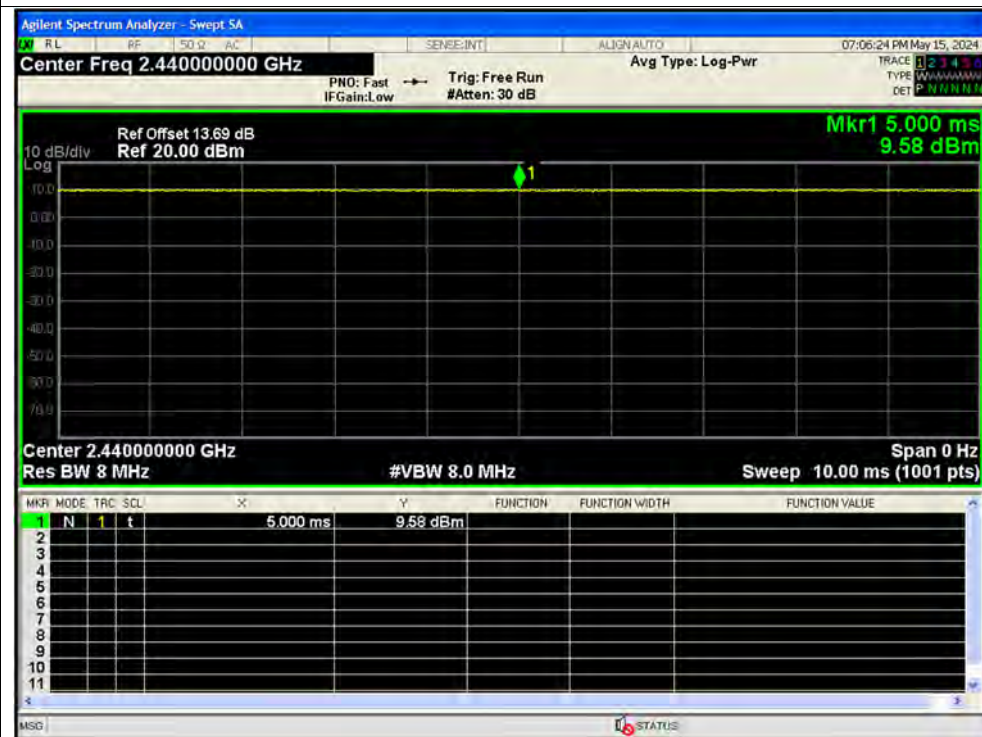


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1

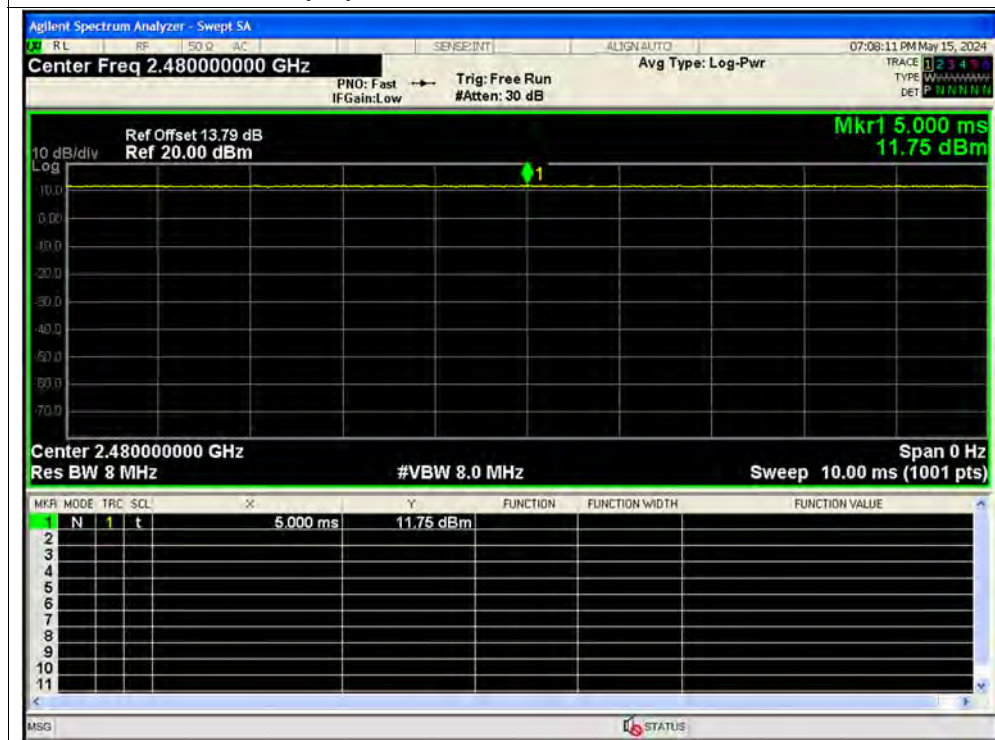


Duty Cycle NVNT BLE 1M 2440MHz Ant1

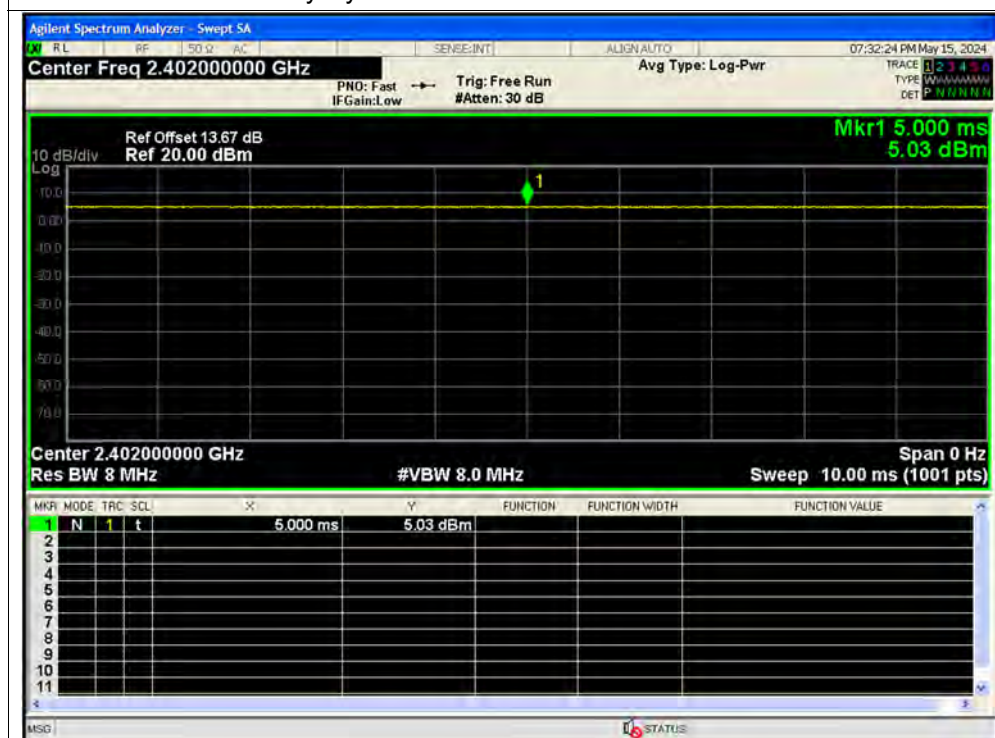




Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1

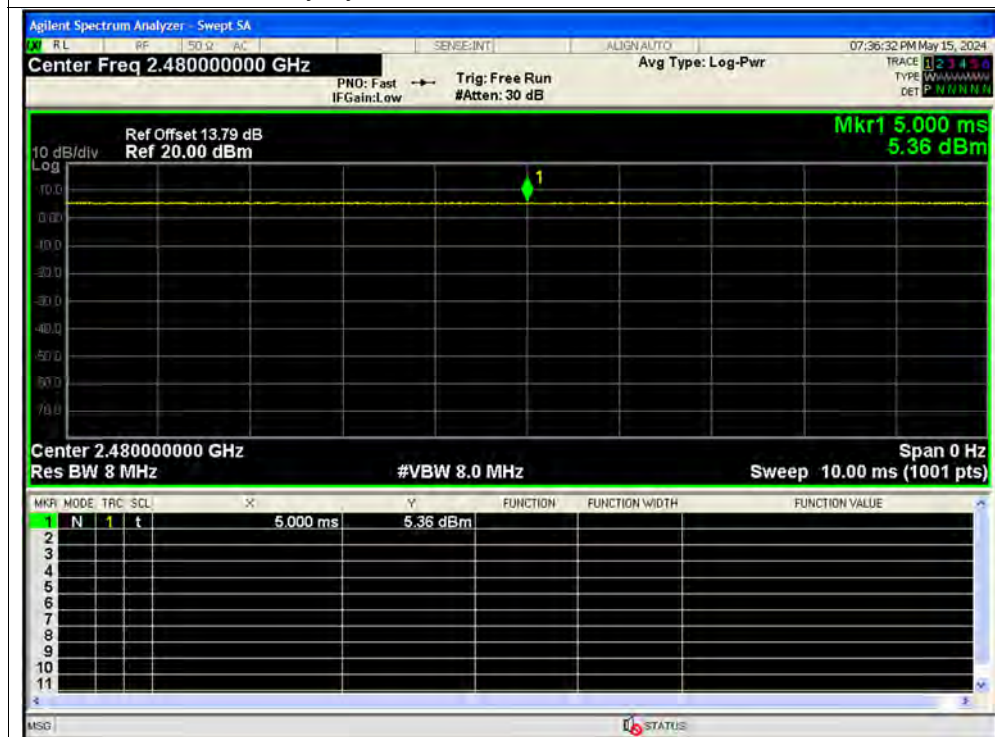




Duty Cycle NVNT BLE 2M 2440MHz Ant1



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	5.88	0	5.88	0.00387	30	Pass
NVNT	BLE 1M	2440	Ant1	5.25	0	5.25	0.00335	30	Pass
NVNT	BLE 1M	2480	Ant1	5.36	0	5.36	0.00344	30	Pass
NVNT	BLE 2M	2402	Ant1	4.88	0	4.88	0.00308	30	Pass
NVNT	BLE 2M	2440	Ant1	5.05	0	5.05	0.0032	30	Pass
NVNT	BLE 2M	2480	Ant1	5.18	0	5.18	0.0033	30	Pass

Test Graphs

Peak Power NVNT BLE 1M 2402MHz Ant1



Peak Power NVNT BLE 1M 2440MHz Ant1



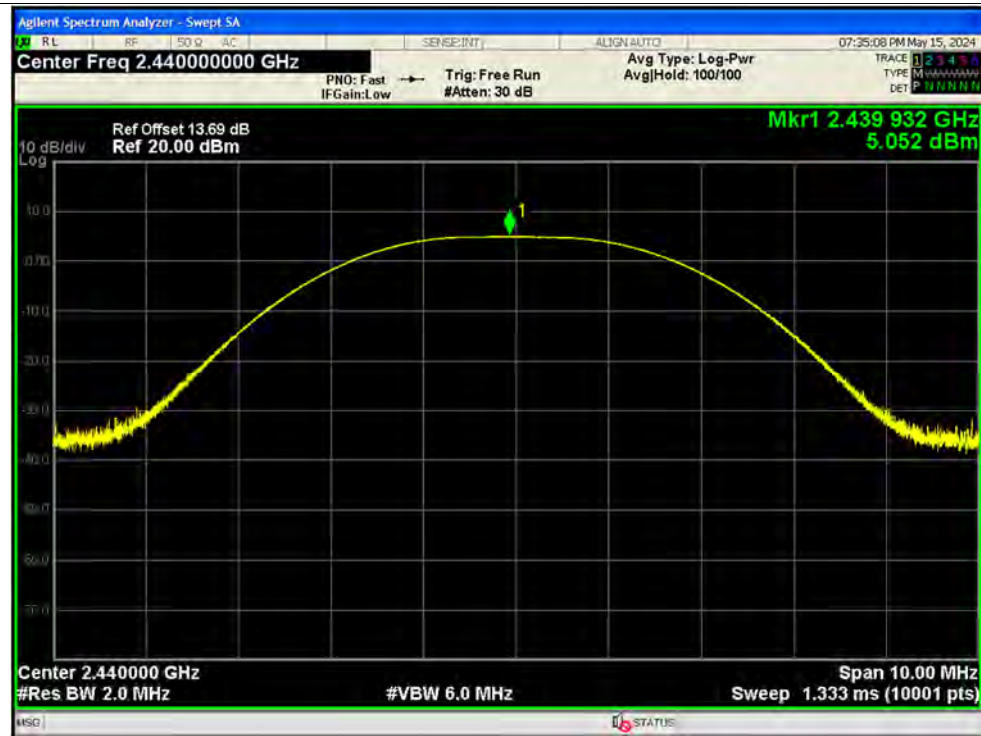
Peak Power NVNT BLE 1M 2480MHz Ant1



Peak Power NVNT BLE 2M 2402MHz Ant1



Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2480MHz Ant1



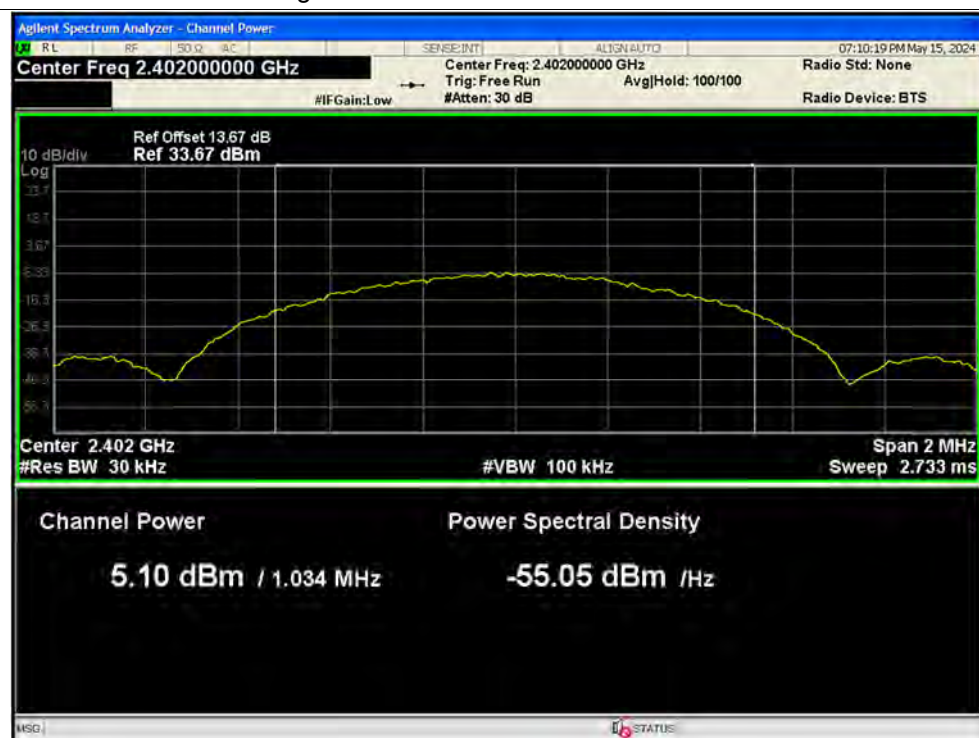
**A.3. Maximum Average Conducted Output Power**

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	5.10	0	5.10	0.00324	30	Pass
NVNT	BLE 1M	2440	Ant1	4.45	0	4.45	0.00279	30	Pass
NVNT	BLE 1M	2480	Ant1	4.49	0	4.49	0.00281	30	Pass
NVNT	BLE 2M	2402	Ant1	4.16	0	4.16	0.00261	30	Pass
NVNT	BLE 2M	2440	Ant1	4.33	0	4.33	0.00271	30	Pass
NVNT	BLE 2M	2480	Ant1	4.39	0	4.39	0.00275	30	Pass

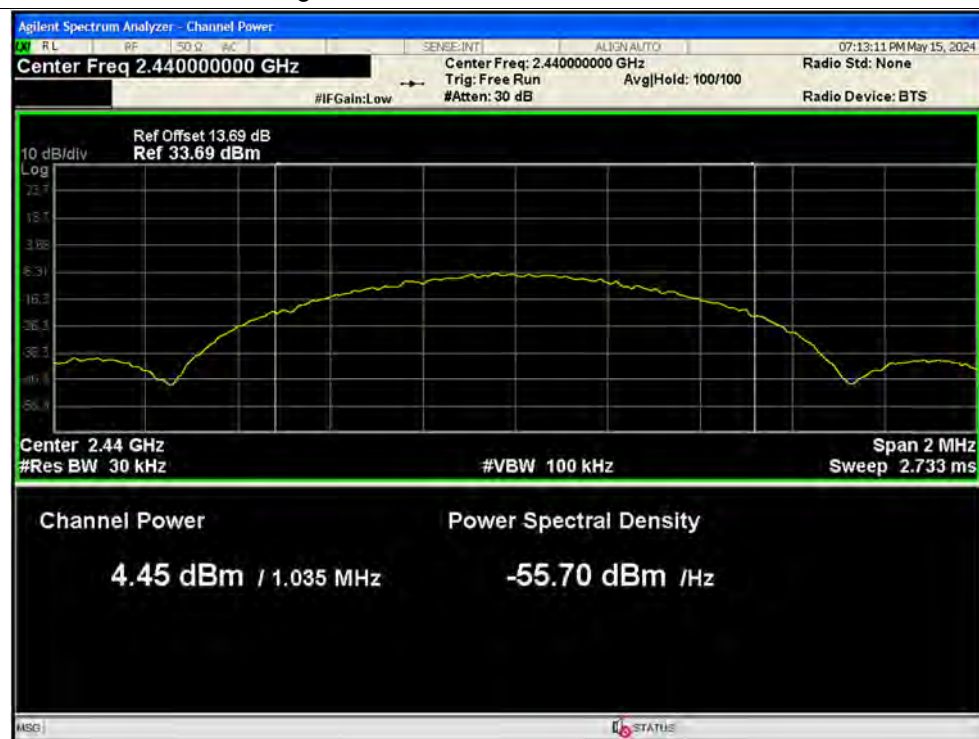


Test Graphs

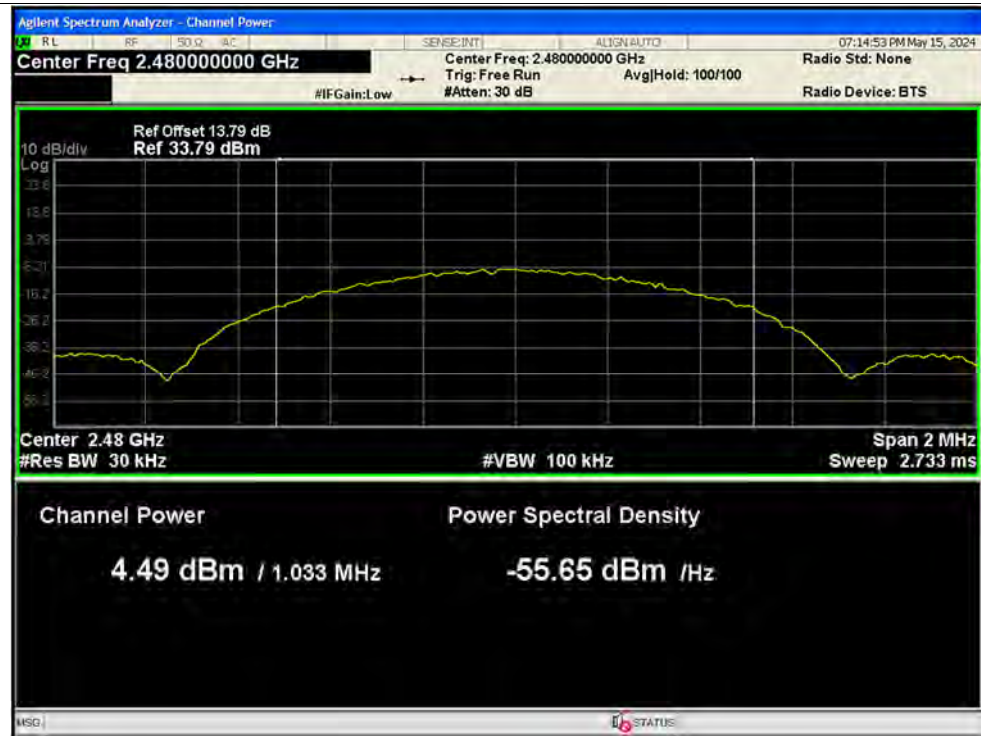
Average Power NVNT BLE 1M 2402MHz Ant1



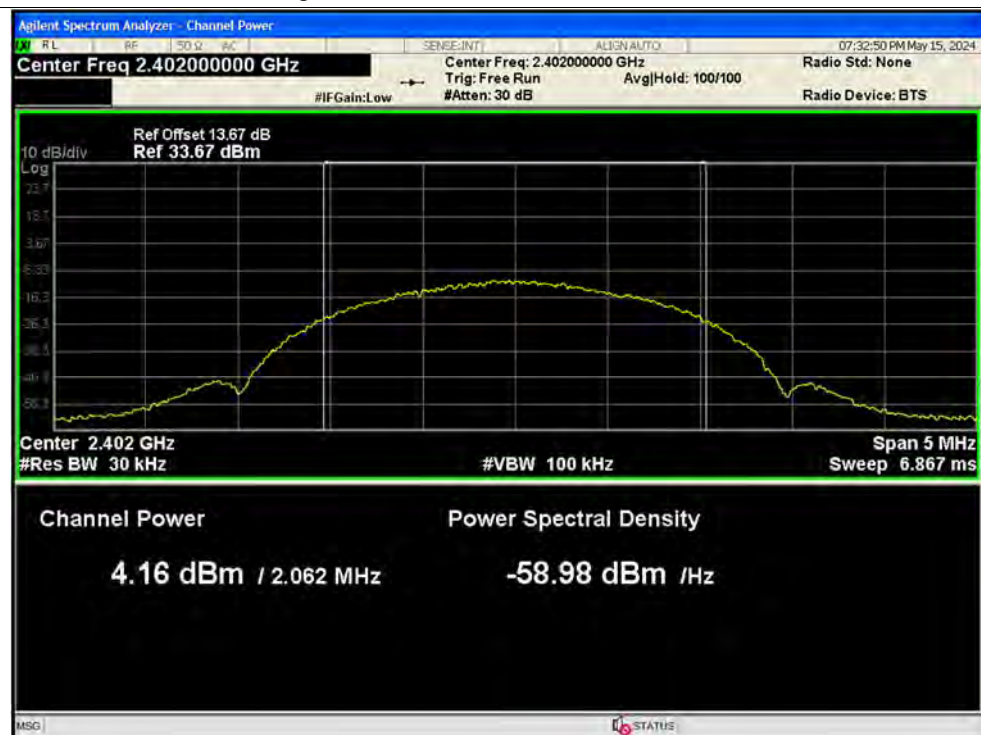
Average Power NVNT BLE 1M 2440MHz Ant1



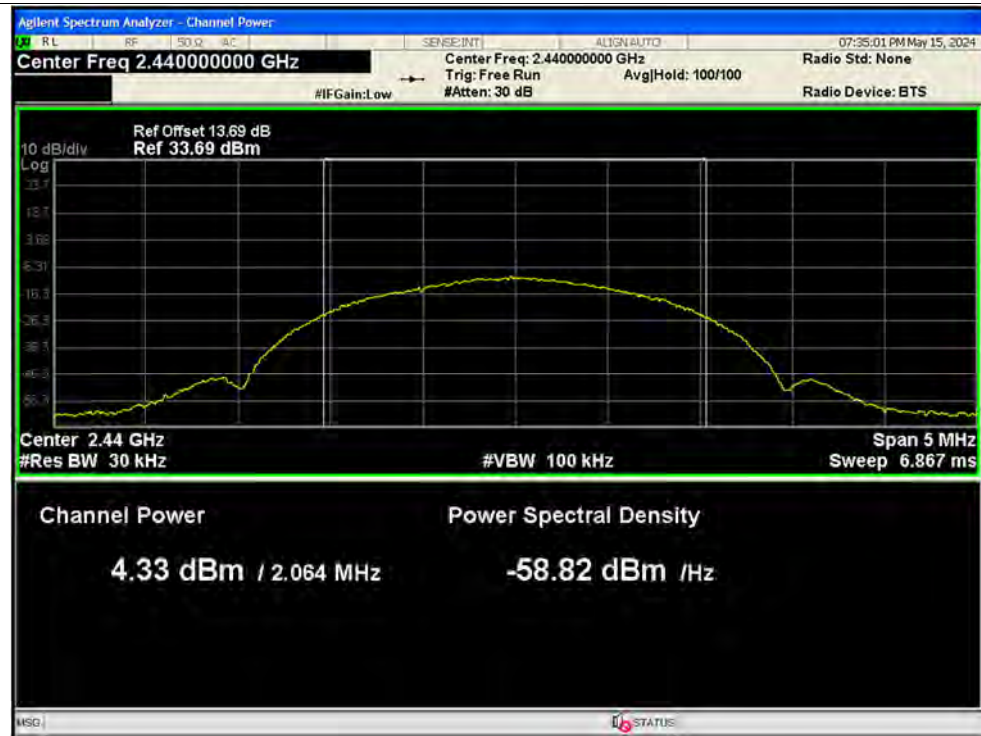
Average Power NVNT BLE 1M 2480MHz Ant1



Average Power NVNT BLE 2M 2402MHz Ant1



Average Power NVNT BLE 2M 2440MHz Ant1



Average Power NVNT BLE 2M 2480MHz Ant1



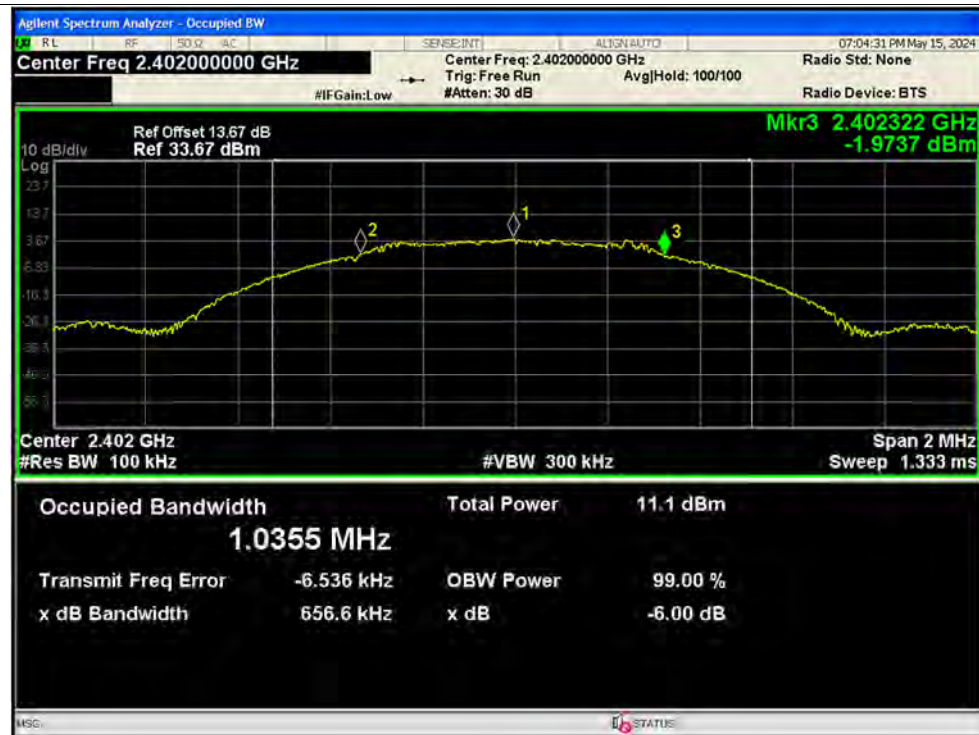
**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.657	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.651	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.647	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.329	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.344	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.353	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





REPORT No.: SZ24050062W01

A.5. Conducted Spurious Emissions

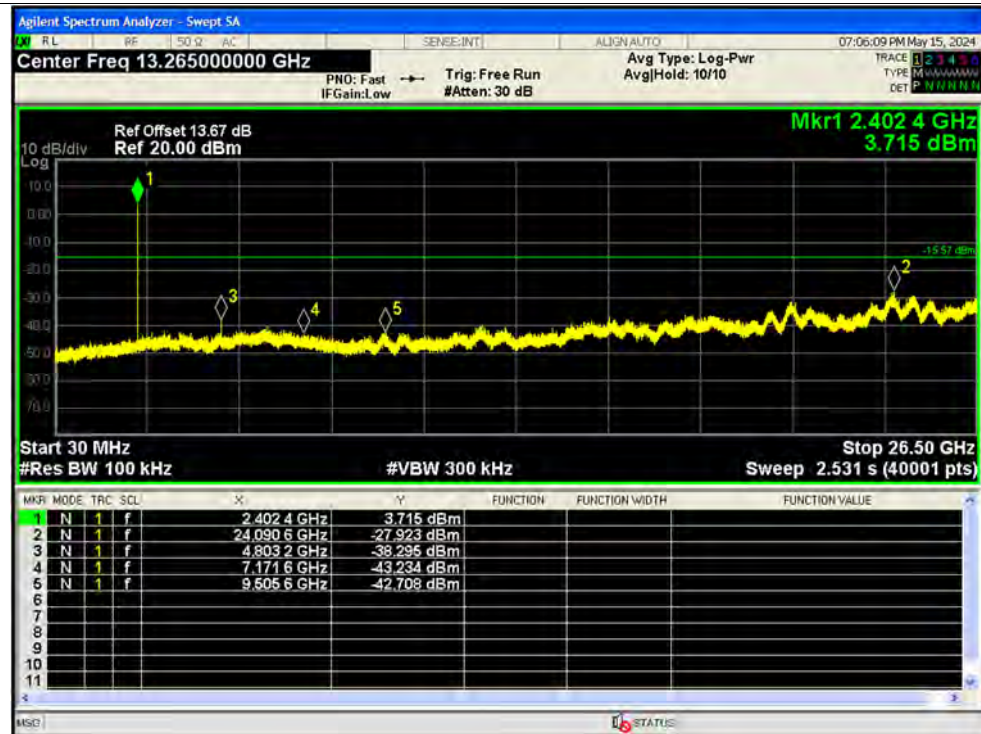
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-32.35	-20	Pass
NVNT	BLE 1M	2440	Ant1	-32.32	-20	Pass
NVNT	BLE 1M	2480	Ant1	-31.34	-20	Pass
NVNT	BLE 2M	2402	Ant1	-29.87	-20	Pass
NVNT	BLE 2M	2440	Ant1	-29.8	-20	Pass
NVNT	BLE 2M	2480	Ant1	-30.4	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



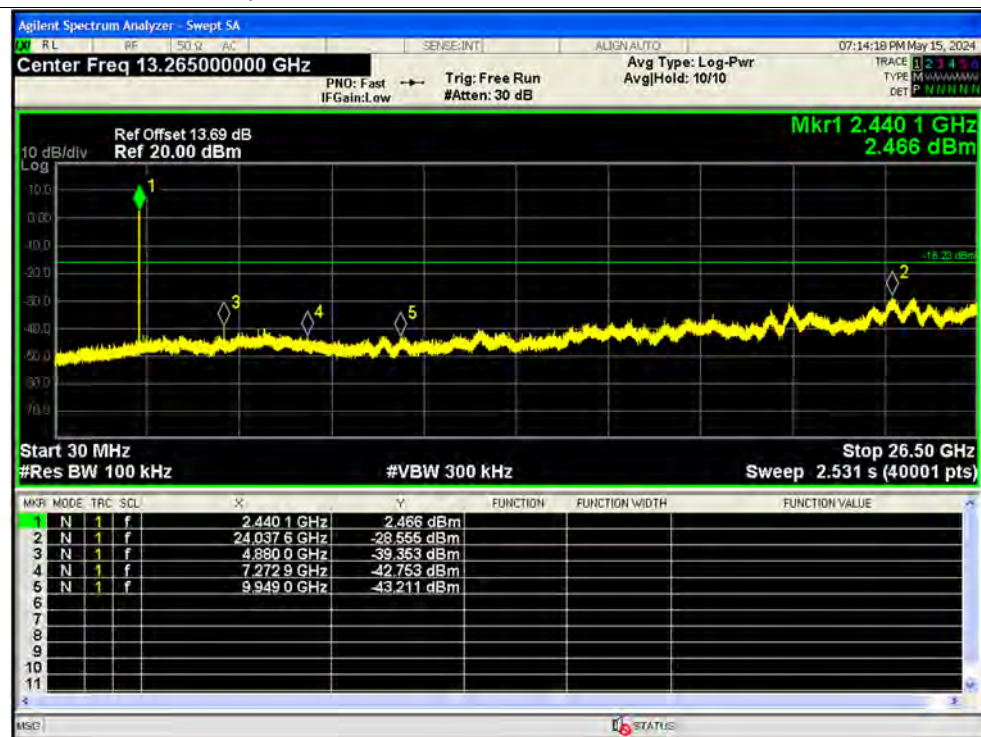
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



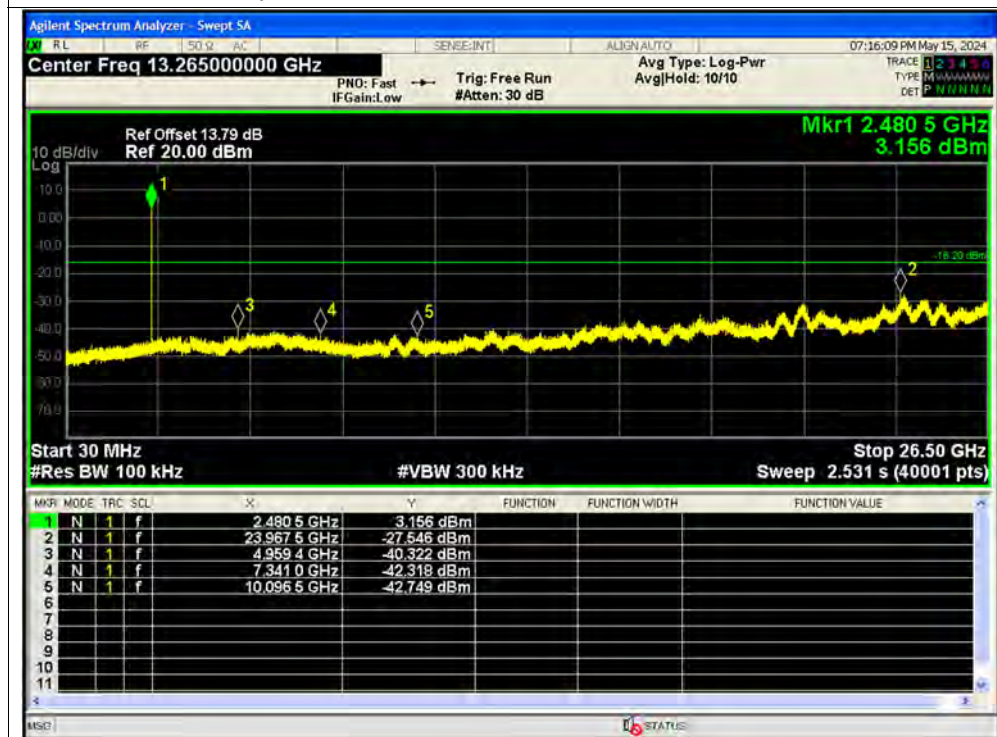
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



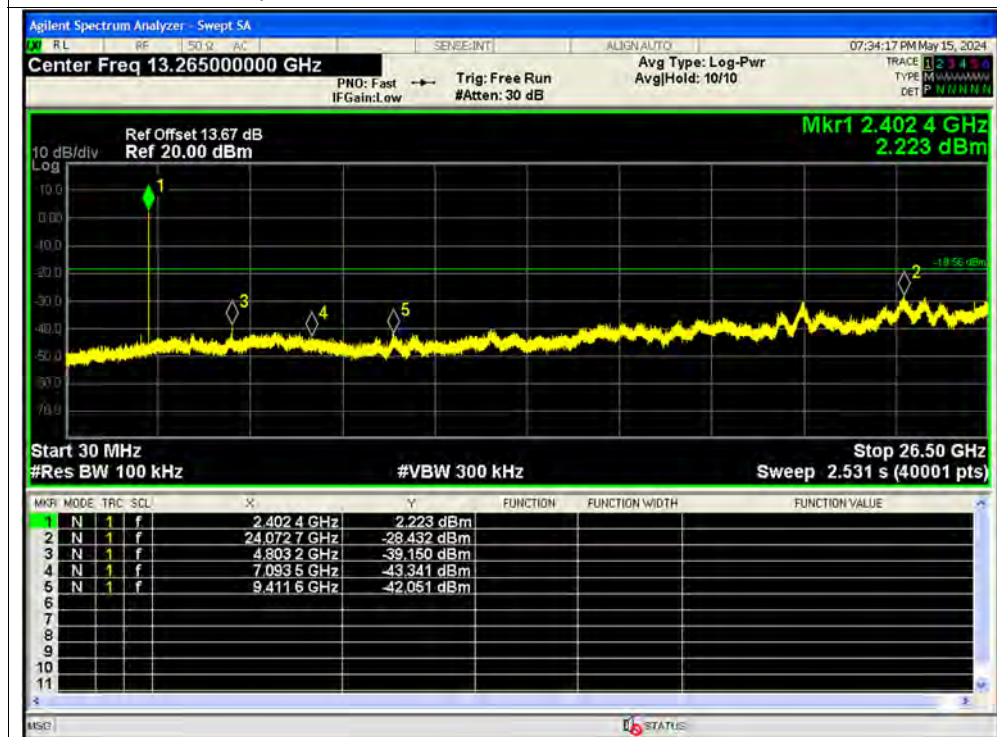
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



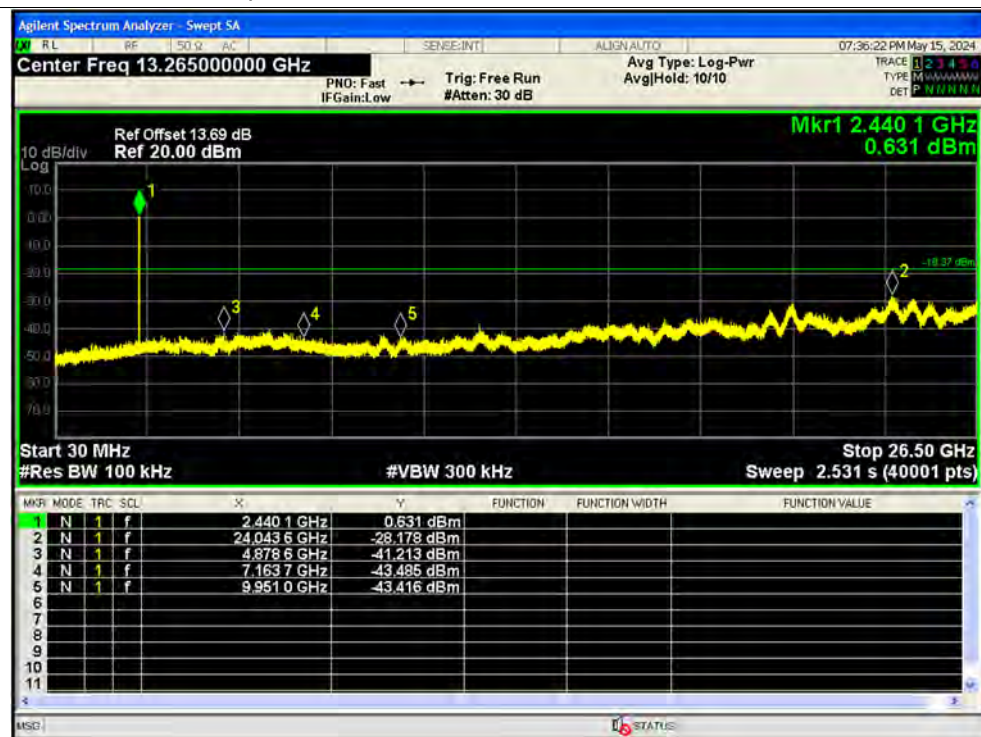
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



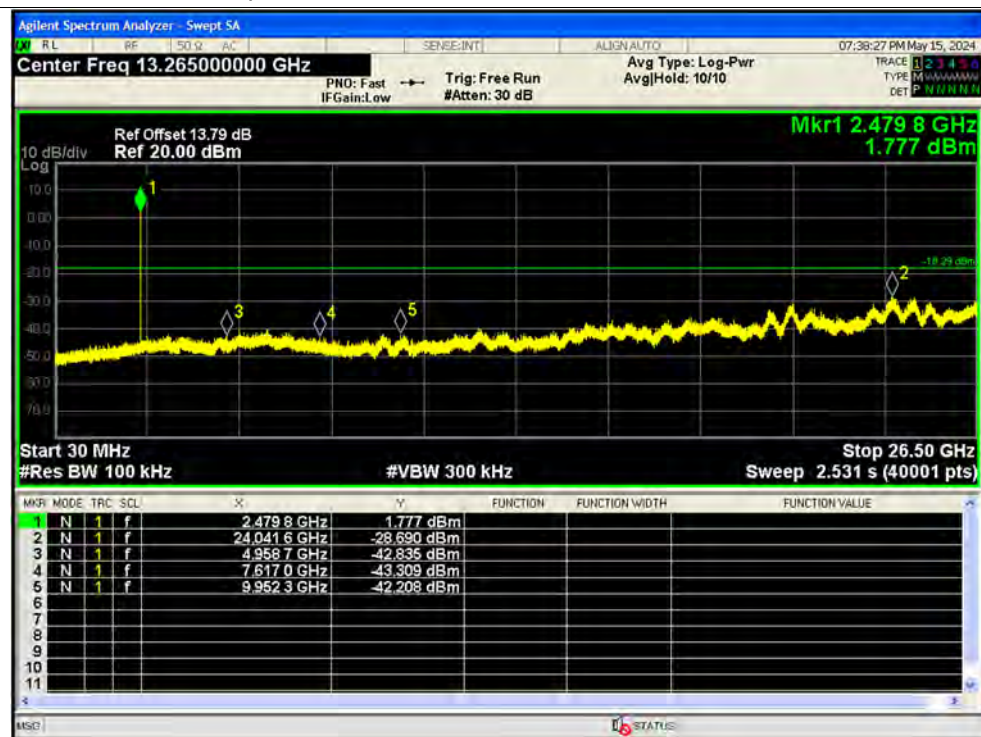
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission





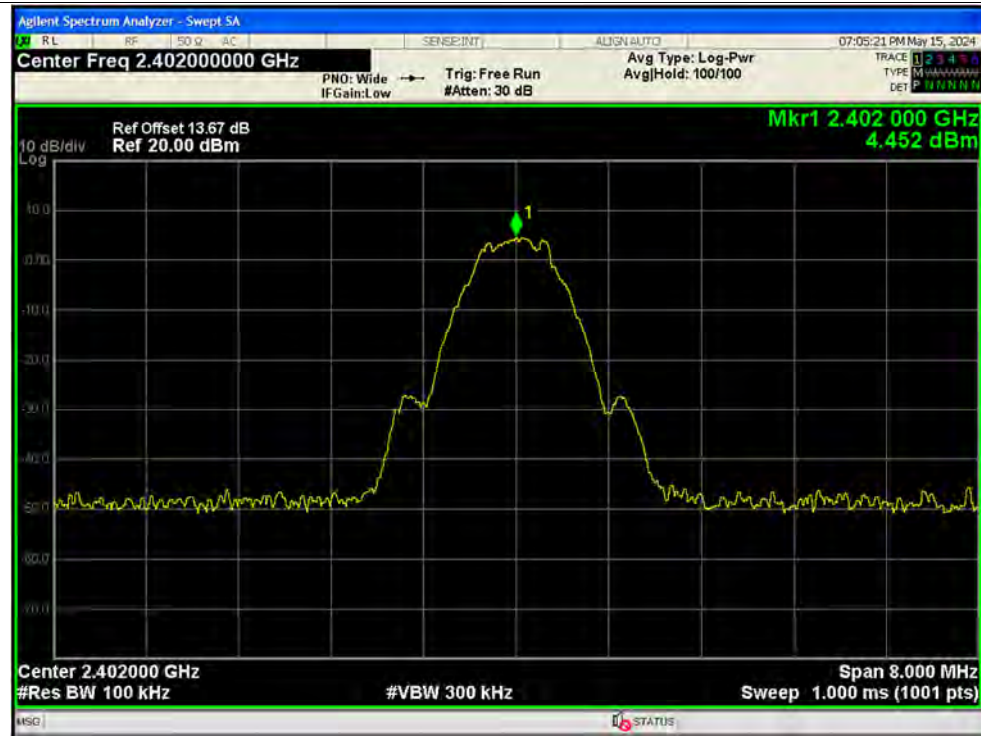
REPORT No.: SZ24050062W01

A.6. Band Edge

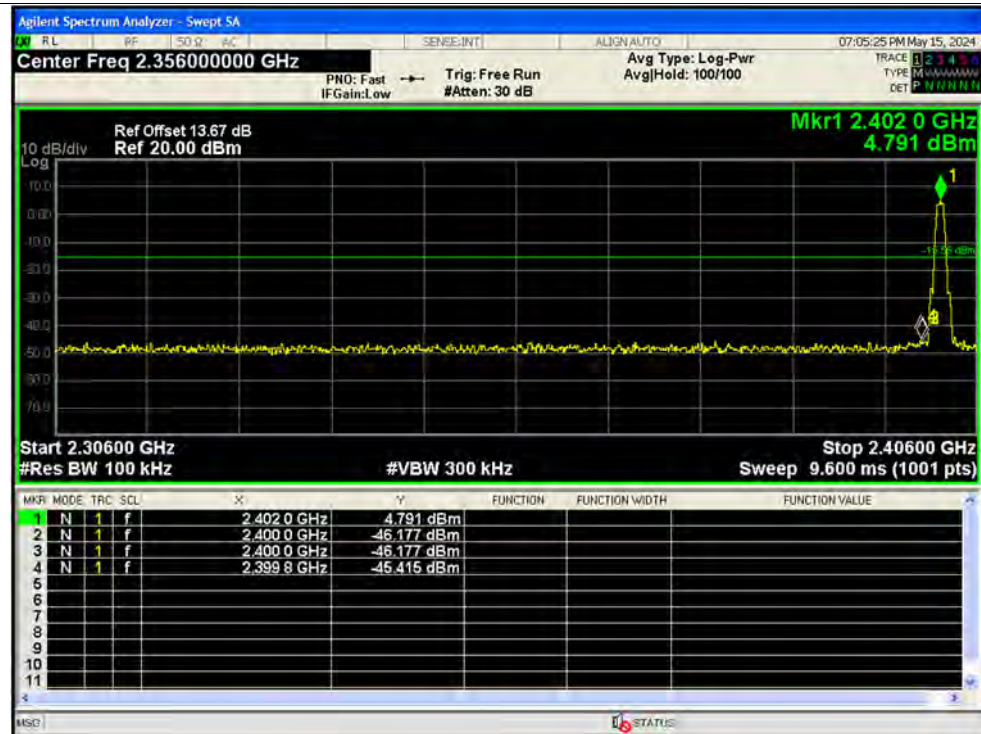
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-49.86	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.63	-20	Pass
NVNT	BLE 2M	2402	Ant1	-43.81	-20	Pass
NVNT	BLE 2M	2480	Ant1	-47.09	-20	Pass

Test Graphs

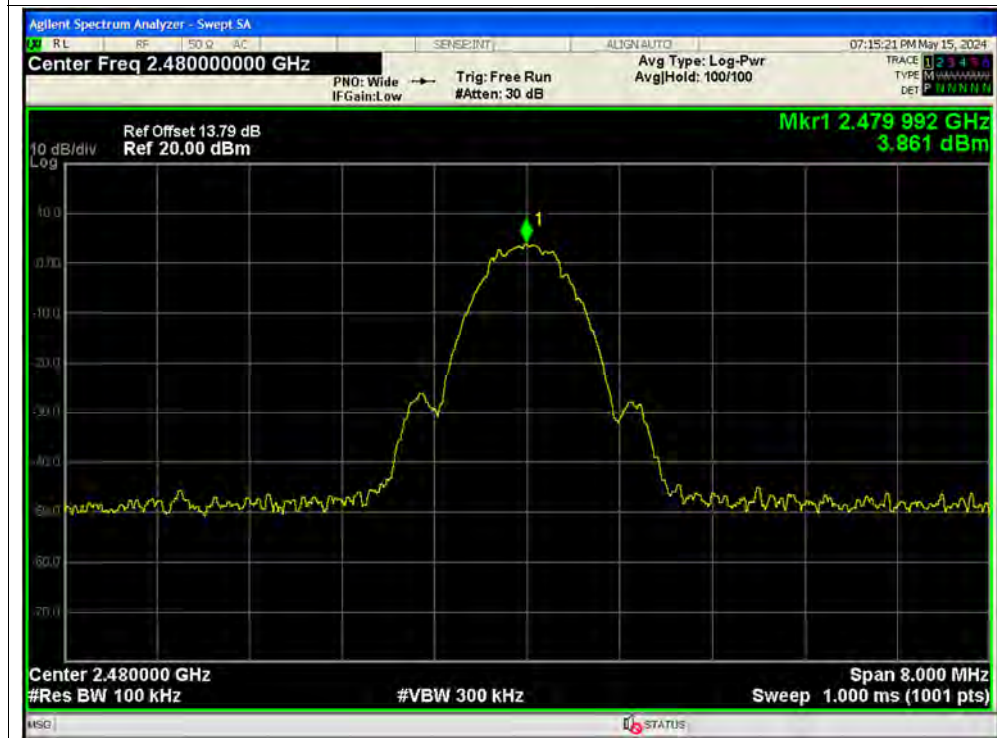
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



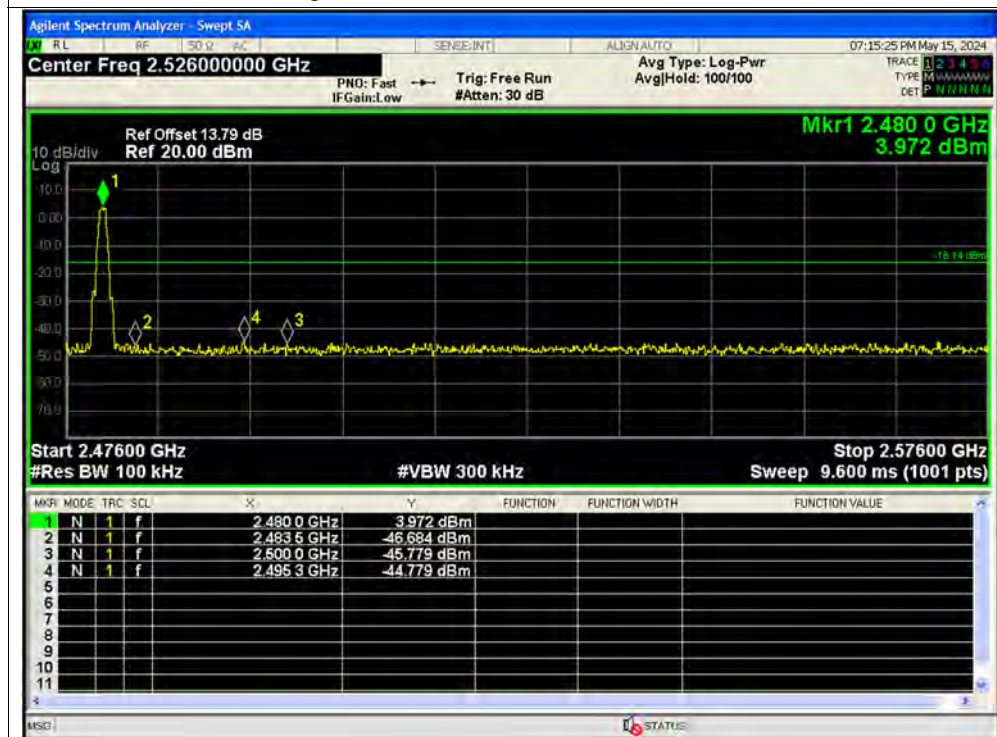
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



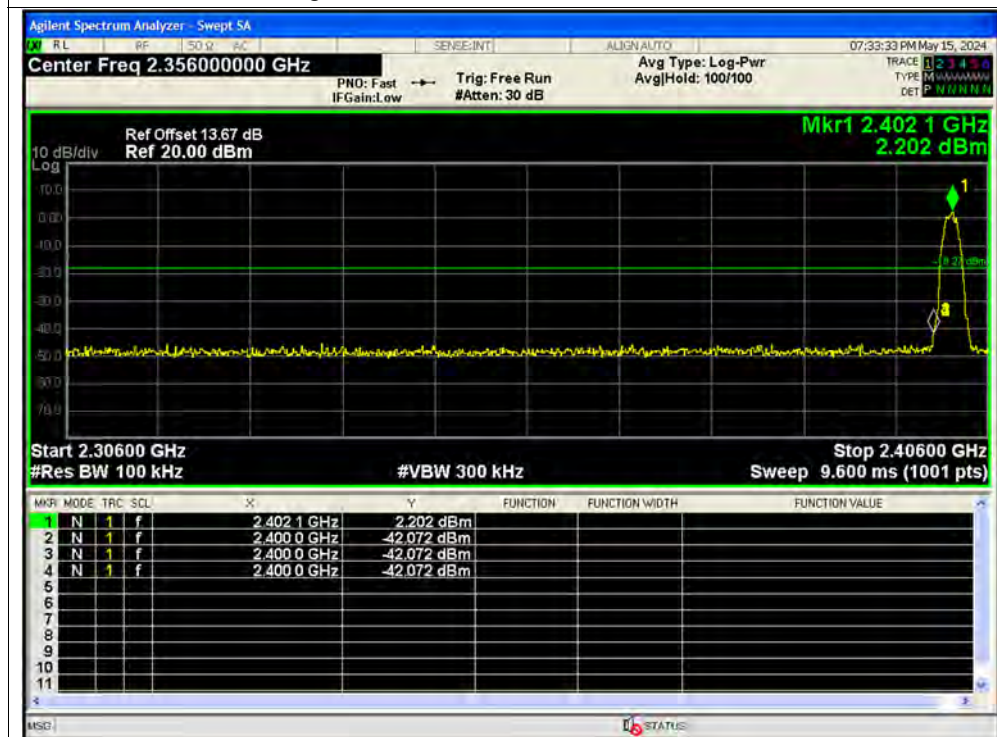
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



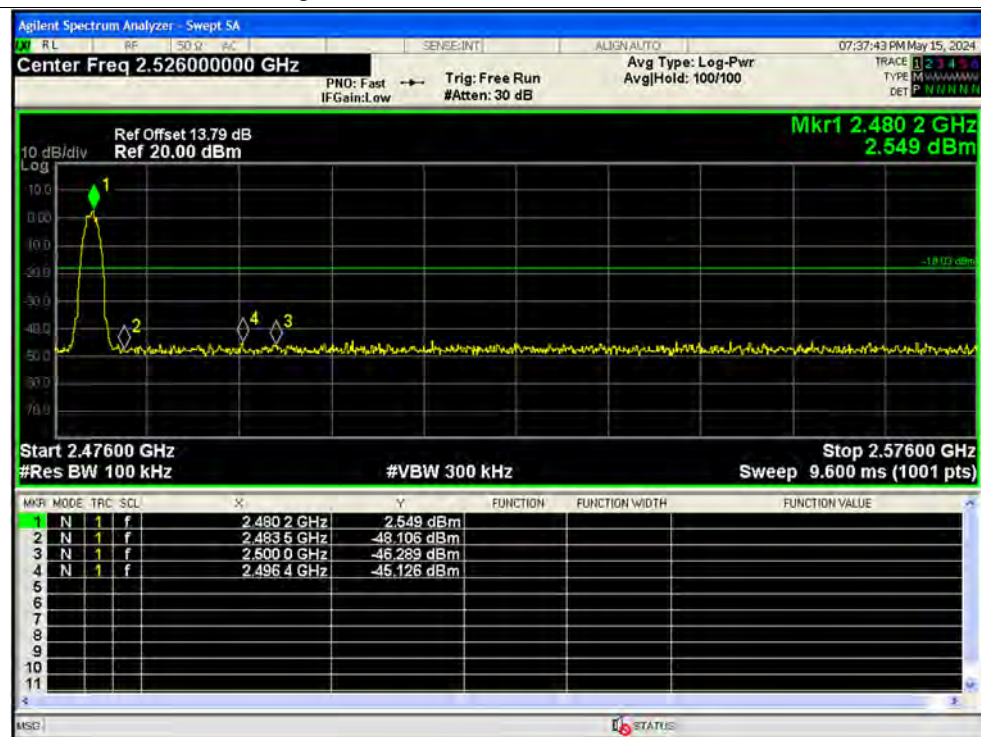
Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



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	-10.43	0	-10.43	8	Pass
NVNT	BLE 1M	2440	Ant1	-11.16	0	-11.16	8	Pass
NVNT	BLE 1M	2480	Ant1	-11.00	0	-11.00	8	Pass
NVNT	BLE 2M	2402	Ant1	-16.62	0	-16.62	8	Pass
NVNT	BLE 2M	2440	Ant1	-16.18	0	-16.18	8	Pass
NVNT	BLE 2M	2480	Ant1	-16.17	0	-16.17	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 + Adapter + BT TX

Test voltage: AC 120V/60Hz

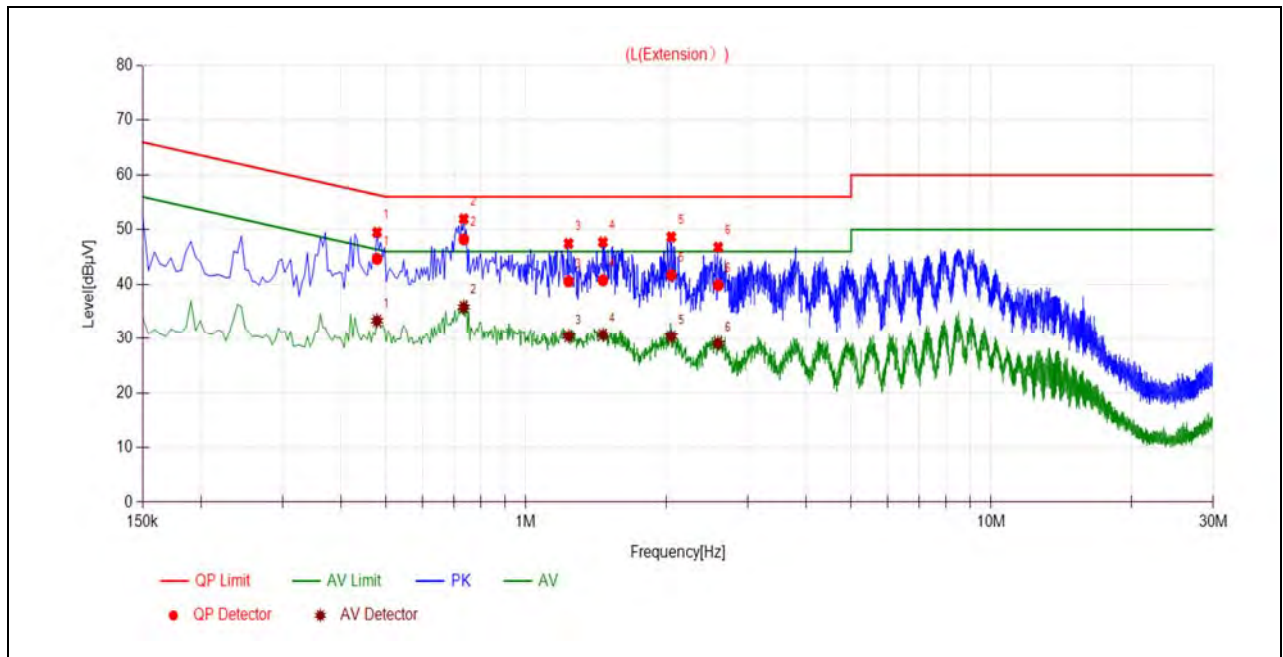
The measurement results are obtained as below:

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

U_R : Receiver Reading

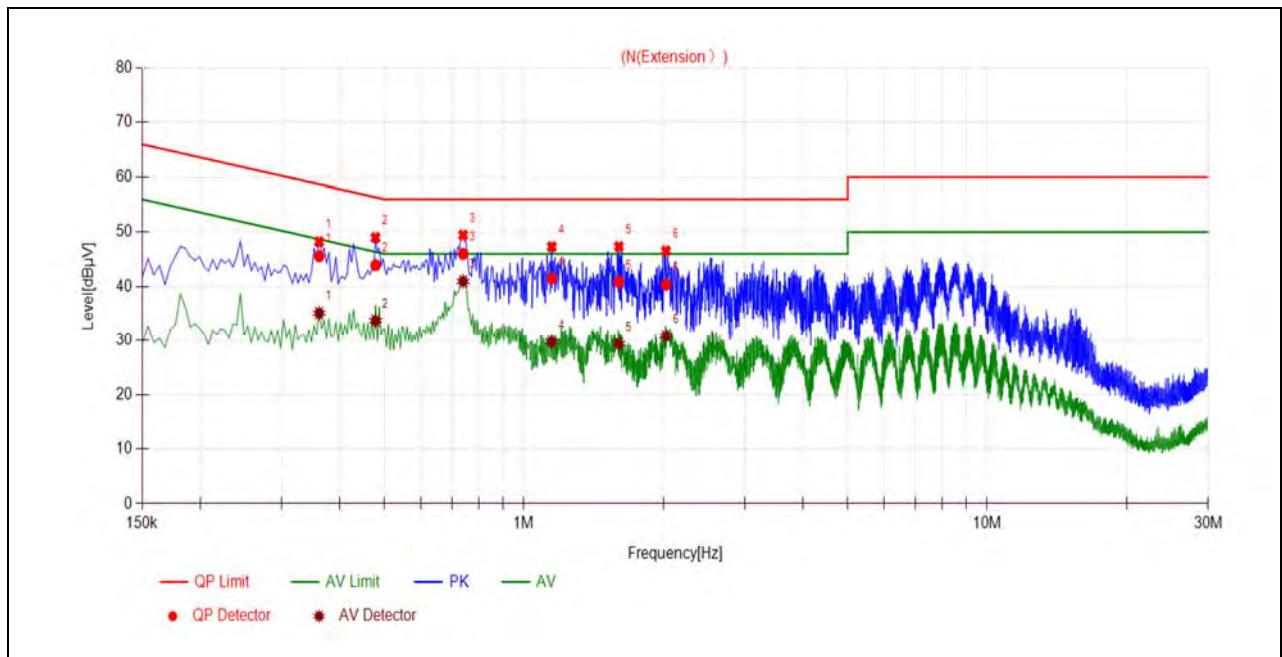
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.4785	44.65	33.34	56.37	46.37	Line	PASS
2	0.7351	48.23	35.85	56.00	46.00		PASS
3	1.2345	40.56	30.39	56.00	46.00		PASS
4	1.4640	40.76	30.70	56.00	46.00		PASS
5	2.0533	41.68	30.38	56.00	46.00		PASS
6	2.5891	39.86	29.09	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	0.3615	45.59	35.14	58.69	48.69	Neutral	PASS
2	0.4785	43.95	33.76	56.36	46.36		PASS
3	0.7395	46.01	40.98	56.00	46.00		PASS
4	1.1491	41.50	29.75	56.00	46.00		PASS
5	1.6035	40.88	29.35	56.00	46.00		PASS
6	2.0265	40.37	30.83	56.00	46.00		PASS



A.9. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

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

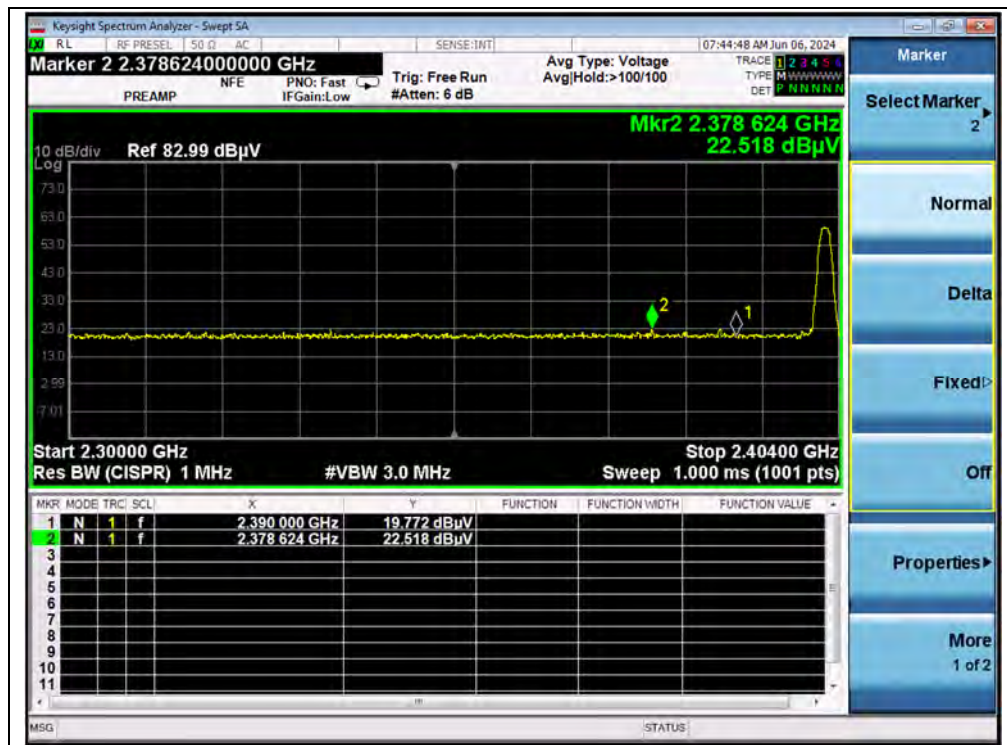
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

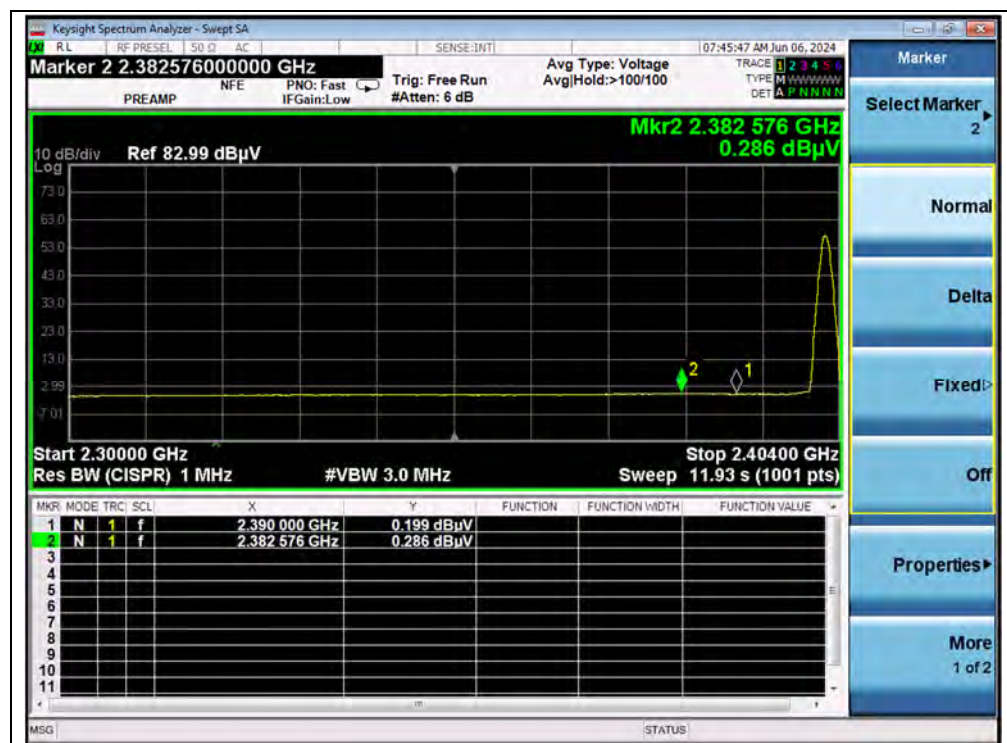
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

1Mbps

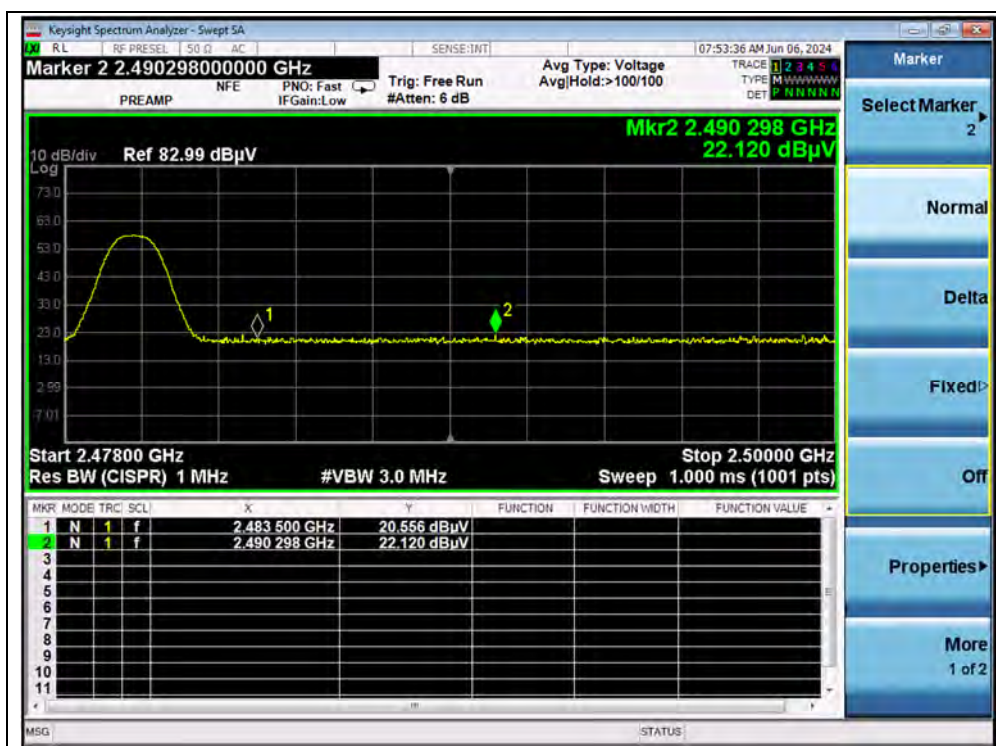
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2378.62	PK	22.52	6.74	27.20	56.46	74	PASS
0	2382.58	AV	0.29	6.74	27.20	34.23	54	PASS
39	2490.30	PK	22.12	6.74	27.20	56.06	74	PASS
39	2483.72	AV	-0.71	6.74	27.20	33.23	54	PASS



(PEAK, Channel 0)



(AVERAGE, Channel 0)



(PEAK, Channel 39)

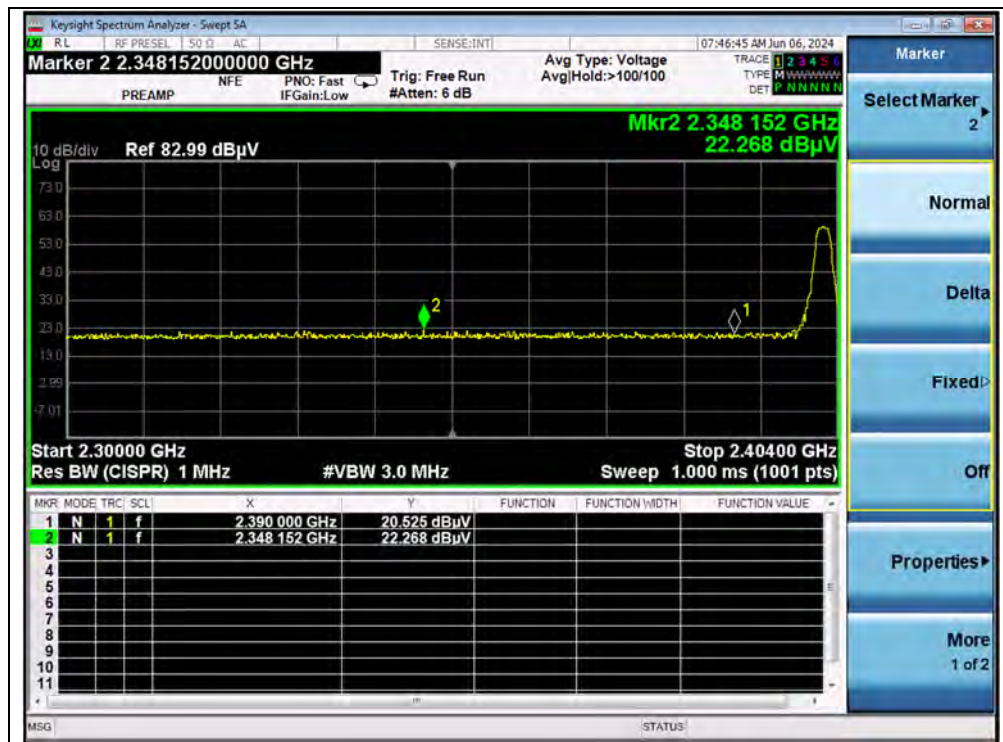


(AVERAGE, Channel 39)

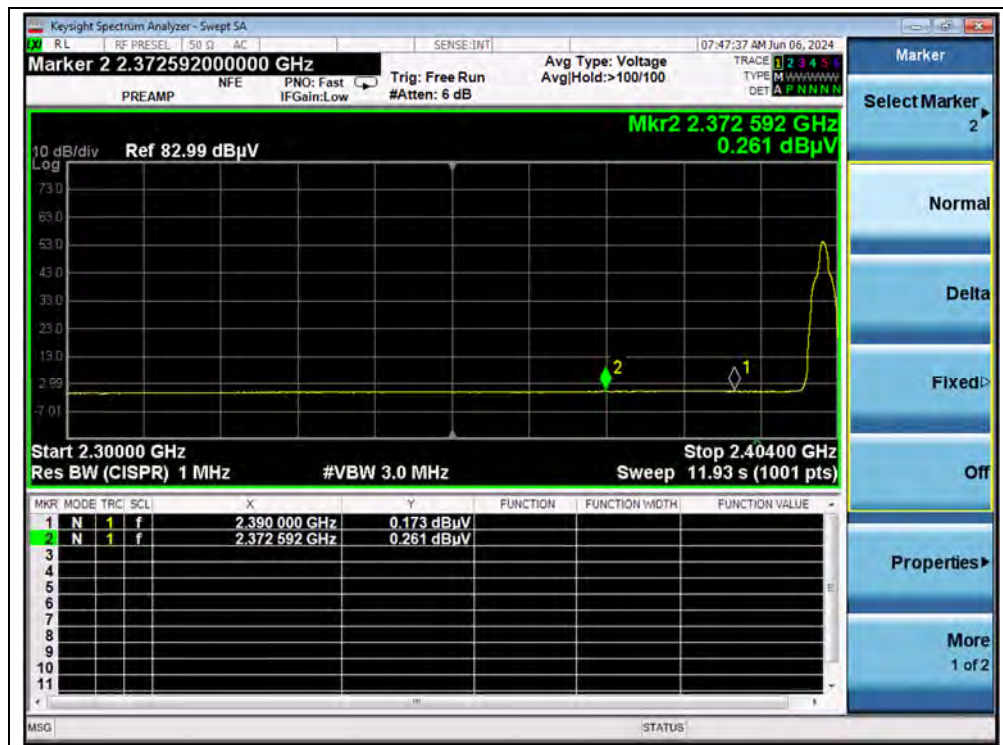


2Mbps

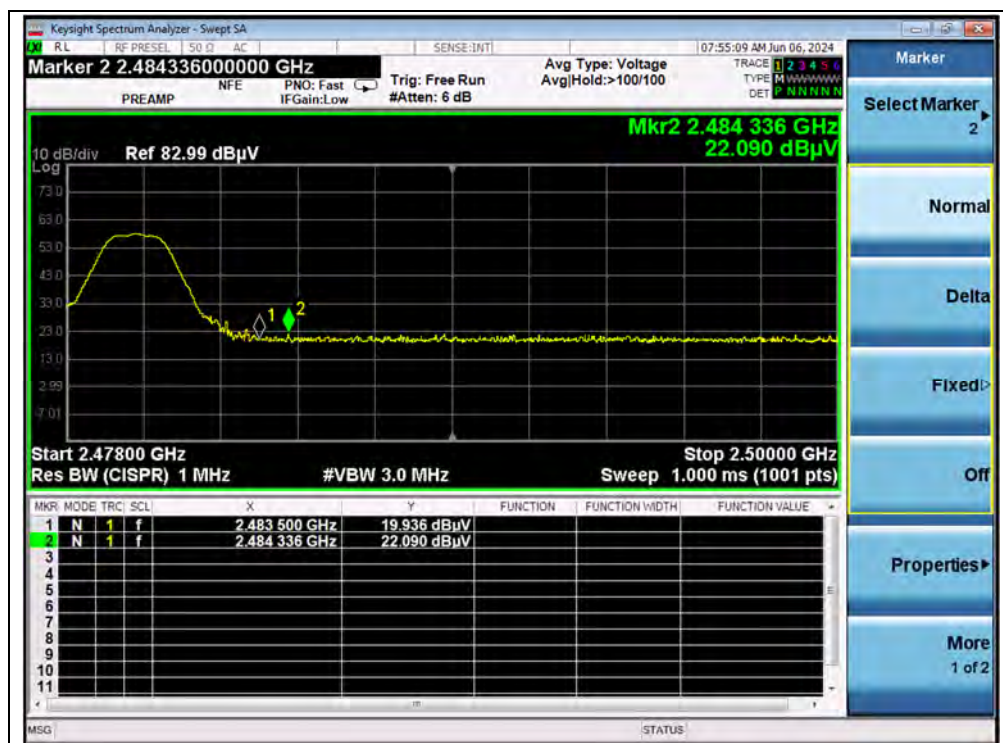
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2348.15	PK	22.27	6.74	27.20	56.21	74	PASS
0	2372.59	AV	0.26	6.74	27.20	34.20	54	PASS
39	2484.34	PK	22.09	6.74	27.20	56.03	74	PASS
39	2483.63	AV	-0.68	6.74	27.20	33.26	54	PASS



(PEAK, Channel 0)



(AVERAGE, Channel 0)



(PEAK, Channel 39)





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.

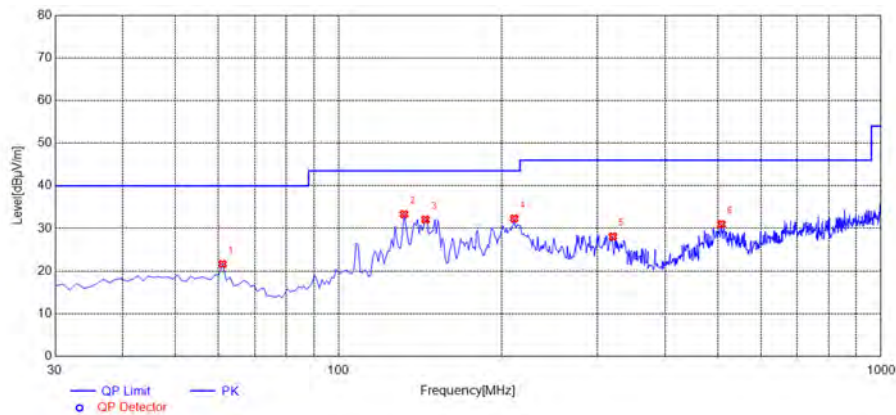
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

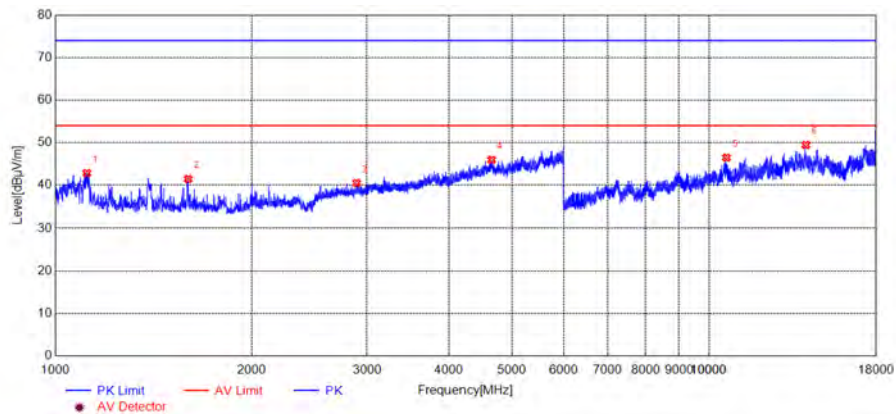
**1Mbps**

Plot for Channel 0



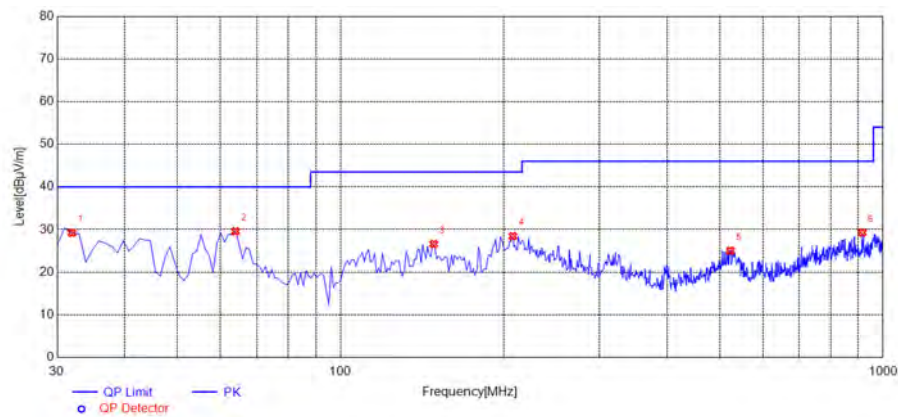
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
61.0711	21.65	-30.51	40.00	Horizontal	PASS
131.9520	33.33	-34.69	43.50	Horizontal	PASS
144.5746	32.06	-35.33	43.50	Horizontal	PASS
210.6006	32.33	-32.08	43.50	Horizontal	PASS
320.3203	28.13	-28.63	46.00	Horizontal	PASS
507.7177	30.98	-24.17	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



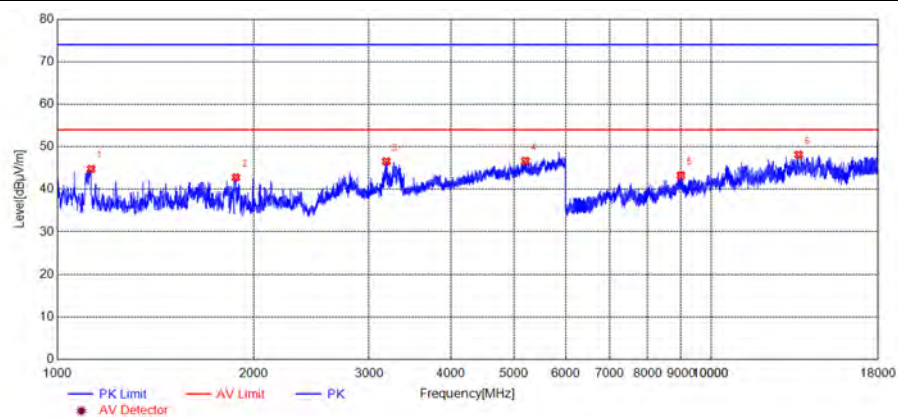
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1118.3531	42.83	-24.09	74.00	Horizontal	PASS
1597.5996	41.45	-23.61	74.00	Horizontal	PASS
2891.1485	40.51	-18.02	74.00	Horizontal	PASS
4649.7750	45.94	-11.17	74.00	Horizontal	PASS
10628.3857	46.47	2.43	74.00	Horizontal	PASS
14062.6719	49.46	6.90	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
31.9419	29.22	-34.01	40.00	Vertical	PASS
63.9840	29.58	-30.79	40.00	Vertical	PASS
148.4585	26.59	-35.42	43.50	Vertical	PASS
207.6877	28.44	-31.92	43.50	Vertical	PASS
523.2533	25.03	-23.74	46.00	Vertical	PASS
915.5255	29.30	-19.09	46.00	Vertical	PASS

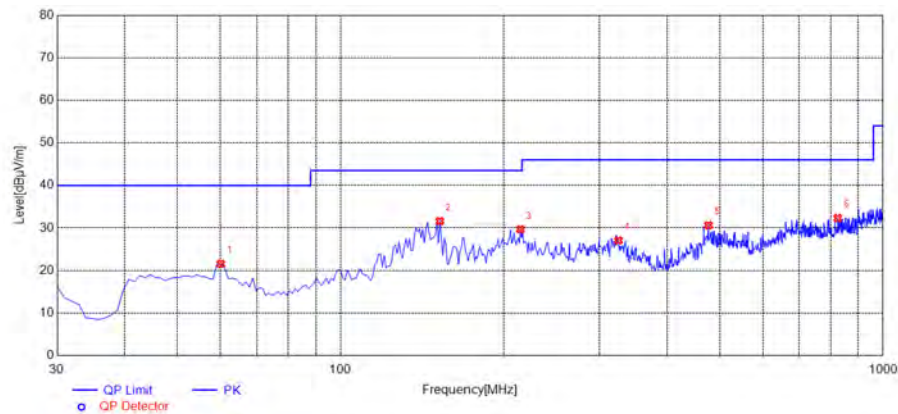
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1126.6878	44.78	-23.95	74.00	Vertical	PASS
1876.8128	42.80	-23.25	74.00	Vertical	PASS
3187.8646	46.55	-17.41	74.00	Vertical	PASS
5201.5336	46.64	-9.87	74.00	Vertical	PASS
8990.2492	43.24	-0.89	74.00	Vertical	PASS
13607.6340	48.14	7.22	74.00	Vertical	PASS

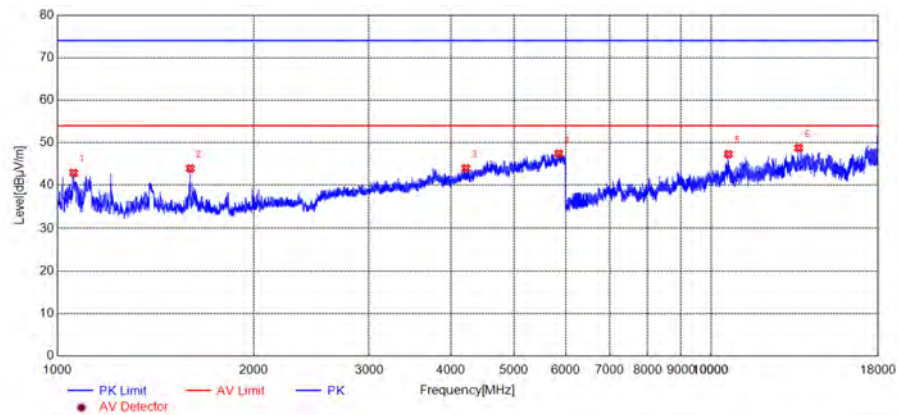
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 19



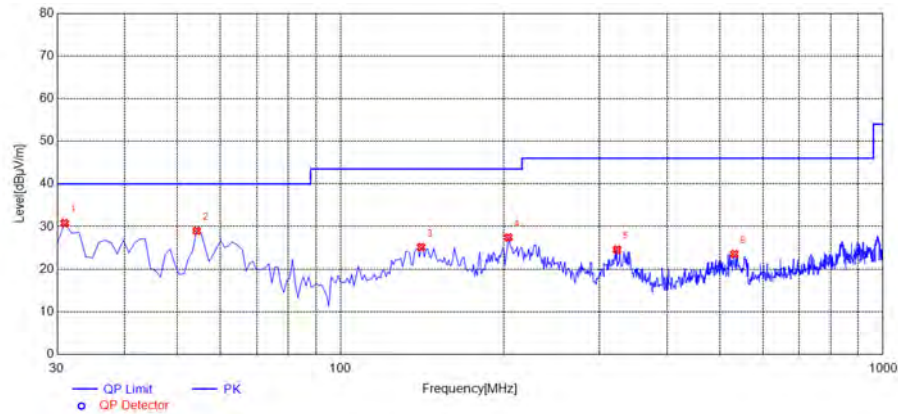
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
60.1001	21.57	-30.55	40.00	Horizontal	PASS
152.3423	31.61	-35.07	43.50	Horizontal	PASS
214.4845	29.66	-31.96	43.50	Horizontal	PASS
325.1752	27.06	-28.45	46.00	Horizontal	PASS
476.6466	30.62	-24.71	46.00	Horizontal	PASS
825.2252	32.36	-20.09	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



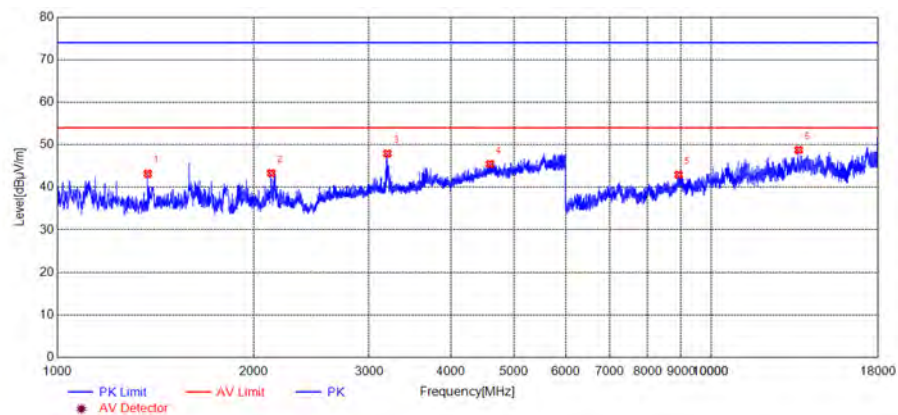
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1060.0100	42.90	-24.15	74.00	Horizontal	PASS
1598.4331	43.96	-23.60	74.00	Horizontal	PASS
4216.3694	43.99	-13.71	74.00	Horizontal	PASS
5849.1415	47.45	-7.94	74.00	Horizontal	PASS
10627.3856	47.31	2.41	74.00	Horizontal	PASS
13608.6341	48.78	7.16	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
30.9710	30.80	-32.94	40.00	Vertical	PASS
54.2743	28.99	-29.36	40.00	Vertical	PASS
140.6907	25.19	-35.23	43.50	Vertical	PASS
203.8038	27.45	-31.70	43.50	Vertical	PASS
323.2332	24.60	-28.52	46.00	Vertical	PASS
531.9920	23.54	-23.63	46.00	Vertical	PASS

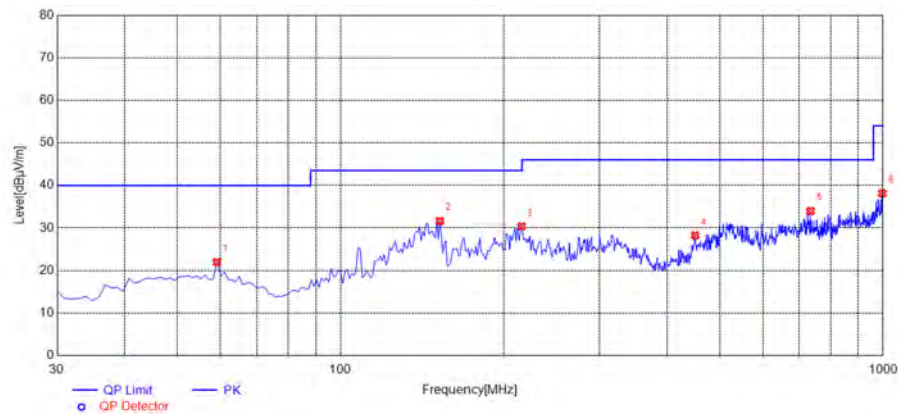
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1375.8960	43.20	-23.82	74.00	Vertical	PASS
2126.0210	43.33	-21.61	74.00	Vertical	PASS
3200.3667	47.93	-17.28	74.00	Vertical	PASS
4591.4319	45.47	-12.09	74.00	Vertical	PASS
8922.2435	42.93	-0.90	74.00	Vertical	PASS
13610.6342	48.79	7.05	74.00	Vertical	PASS

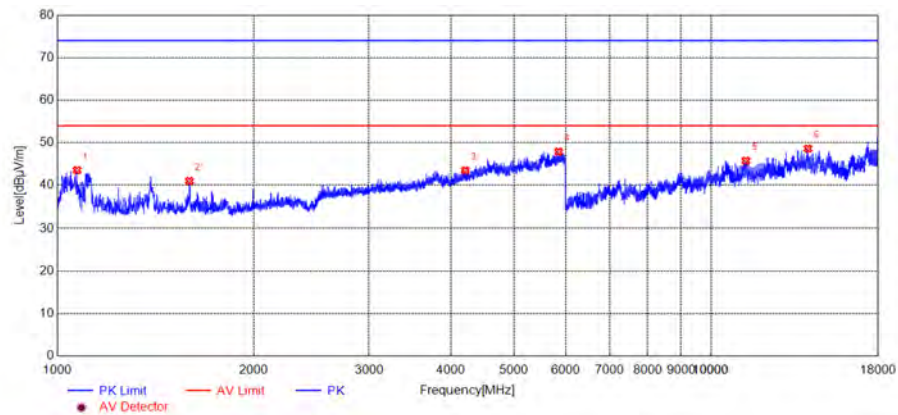
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 39



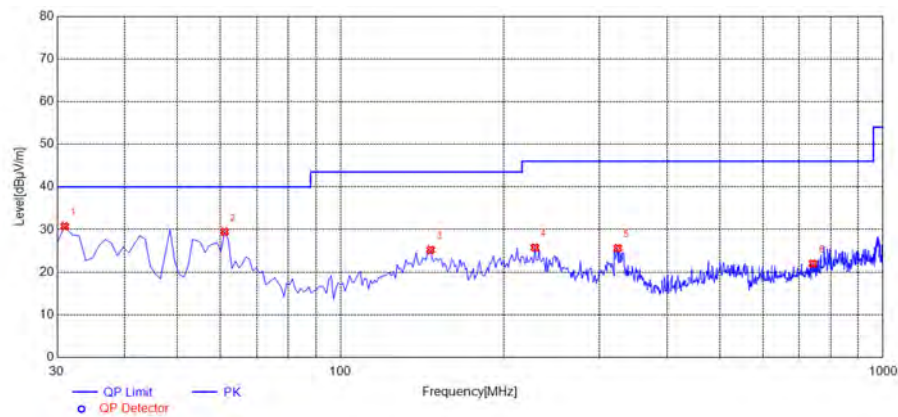
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
59.1291	21.93	-30.37	40.00	Horizontal	PASS
152.3423	31.63	-35.07	43.50	Horizontal	PASS
215.4555	30.34	-31.92	43.50	Horizontal	PASS
450.4304	28.23	-25.35	46.00	Horizontal	PASS
734.9249	33.96	-20.86	46.00	Horizontal	PASS
997.0871	38.12	-18.23	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



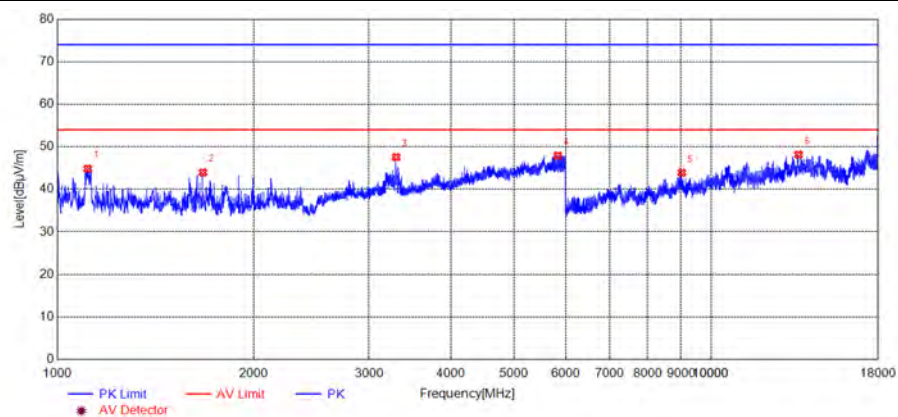
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1072.5121	43.54	-24.23	74.00	Horizontal	PASS
1593.4322	40.99	-23.64	74.00	Horizontal	PASS
4208.8681	43.47	-13.71	74.00	Horizontal	PASS
5847.4746	47.88	-7.97	74.00	Horizontal	PASS
11303.4420	45.77	3.05	74.00	Horizontal	PASS
14067.6723	48.61	6.81	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
30.9710	30.76	-32.94	40.00	Vertical	PASS
61.0711	29.47	-30.51	40.00	Vertical	PASS
146.5165	25.22	-35.19	43.50	Vertical	PASS
228.0781	25.77	-31.12	46.00	Vertical	PASS
324.2042	25.63	-28.49	46.00	Vertical	PASS
742.6927	22.03	-20.82	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

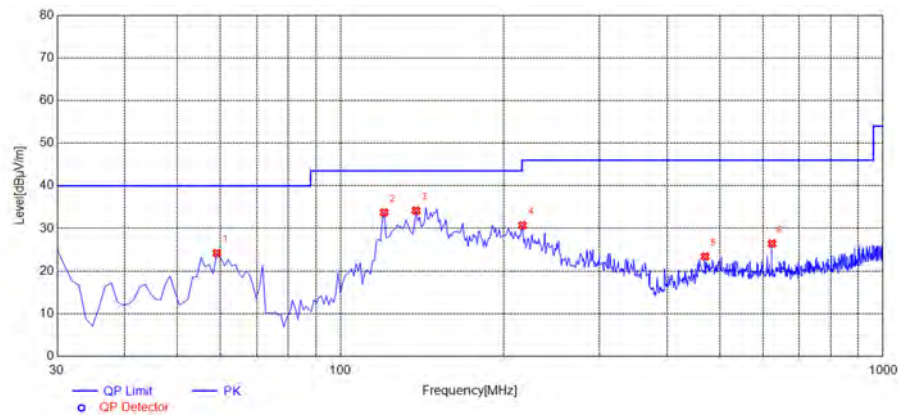


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1113.3522	44.85	-24.18	74.00	Vertical	PASS
1670.9452	43.96	-23.66	74.00	Vertical	PASS
3299.5499	47.57	-16.50	74.00	Vertical	PASS
5829.1382	47.93	-8.34	74.00	Vertical	PASS
9022.2519	43.90	-1.09	74.00	Vertical	PASS
13605.6338	48.15	7.34	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

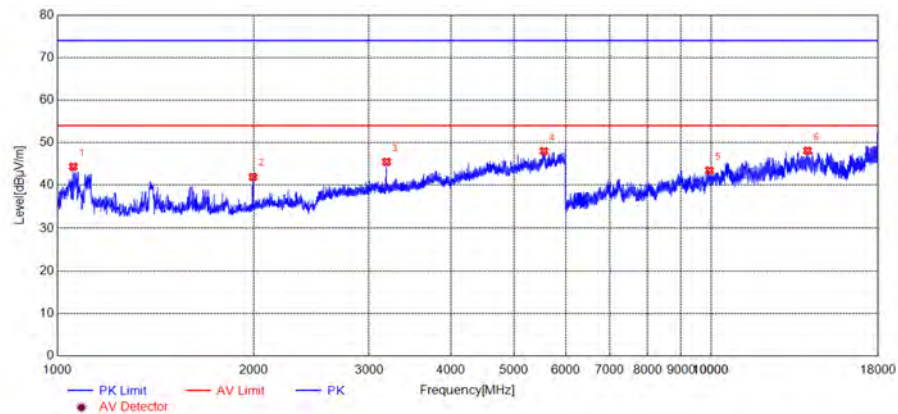
**2Mbps**

Plot for Channel 0



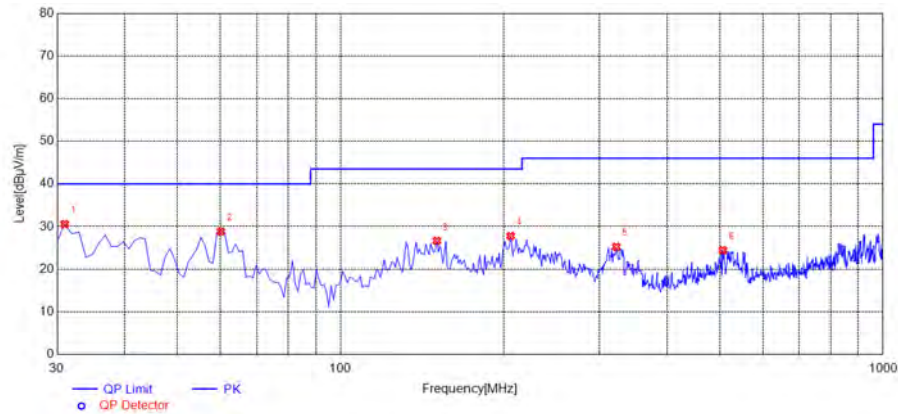
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
59.1291	24.20	-30.37	40.00	Horizontal	PASS
120.3003	33.73	-33.18	43.50	Horizontal	PASS
137.7778	34.18	-35.07	43.50	Horizontal	PASS
216.4264	30.74	-31.89	46.00	Horizontal	PASS
469.8499	23.42	-24.92	46.00	Horizontal	PASS
624.2342	26.43	-22.10	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



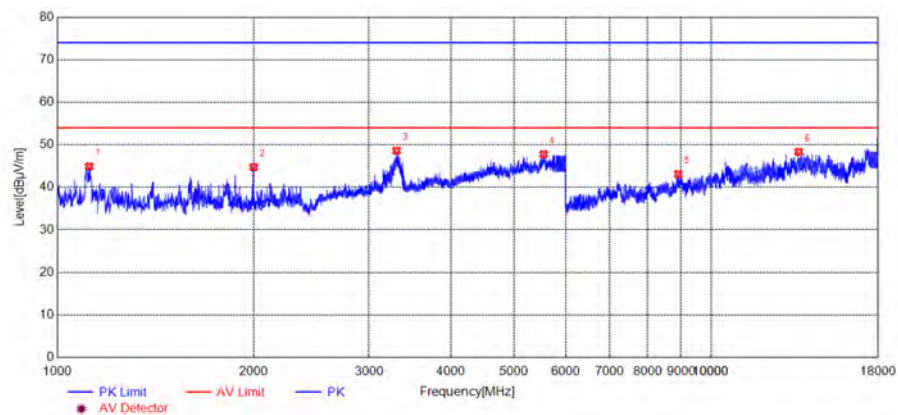
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1058.3431	44.36	-24.14	74.00	Horizontal	PASS
1994.3324	41.95	-22.01	74.00	Horizontal	PASS
3191.1985	45.50	-17.38	74.00	Horizontal	PASS
5550.7585	47.99	-8.24	74.00	Horizontal	PASS
9947.3289	43.47	0.19	74.00	Horizontal	PASS
14042.6702	48.11	6.87	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
30.9710	30.59	-32.94	40.00	Vertical	PASS
60.1001	28.83	-30.55	40.00	Vertical	PASS
150.4004	26.64	-35.18	43.50	Vertical	PASS
205.7457	27.77	-31.77	43.50	Vertical	PASS
322.2623	25.22	-28.56	46.00	Vertical	PASS
506.7467	24.46	-24.22	46.00	Vertical	PASS

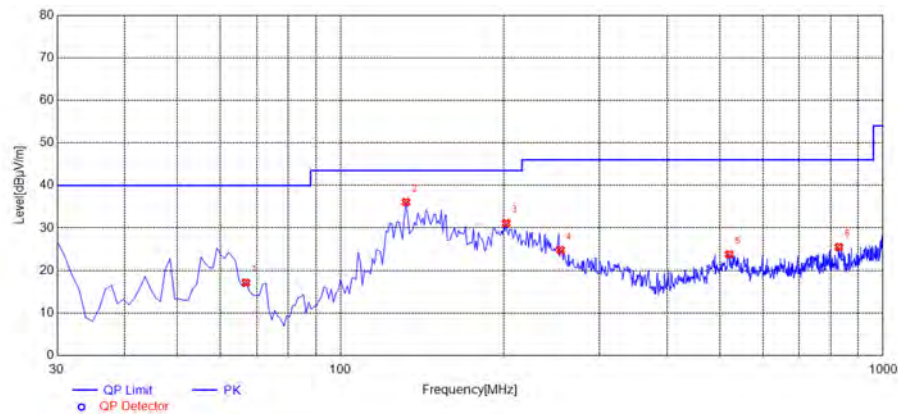
(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1120.0200	44.94	-24.06	74.00	Vertical	PASS
1997.6663	44.74	-21.94	74.00	Vertical	PASS
3305.3842	48.61	-16.50	74.00	Vertical	PASS
5546.5911	47.78	-8.31	74.00	Vertical	PASS
8907.2423	43.09	-0.69	74.00	Vertical	PASS
13606.6339	48.35	7.28	74.00	Vertical	PASS

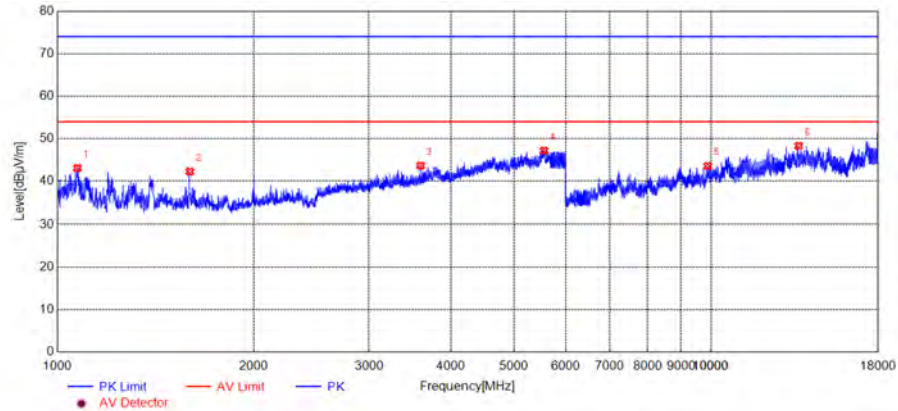
(Antenna Vertical, 1GHz to 18GHz)

Plot for Channel 19



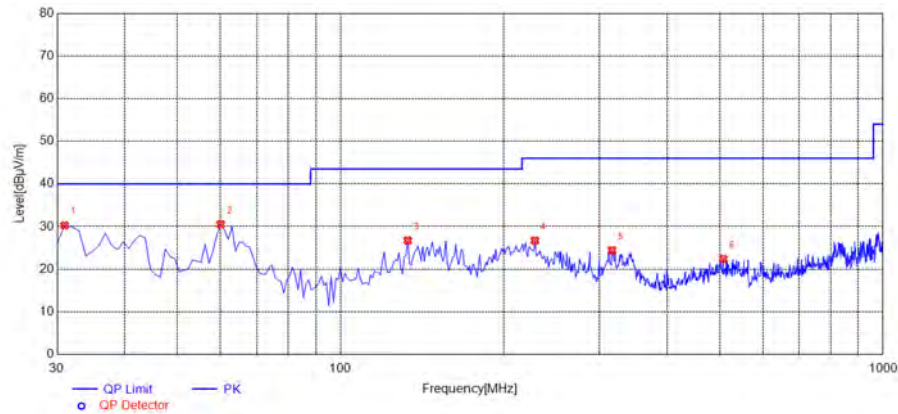
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
66.8969	17.13	-31.92	40.00	Horizontal	PASS
131.9520	36.07	-34.69	43.50	Horizontal	PASS
201.8619	31.12	-31.67	43.50	Horizontal	PASS
254.2943	24.80	-30.29	46.00	Horizontal	PASS
520.3403	23.79	-23.68	46.00	Horizontal	PASS
829.1091	25.51	-20.02	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



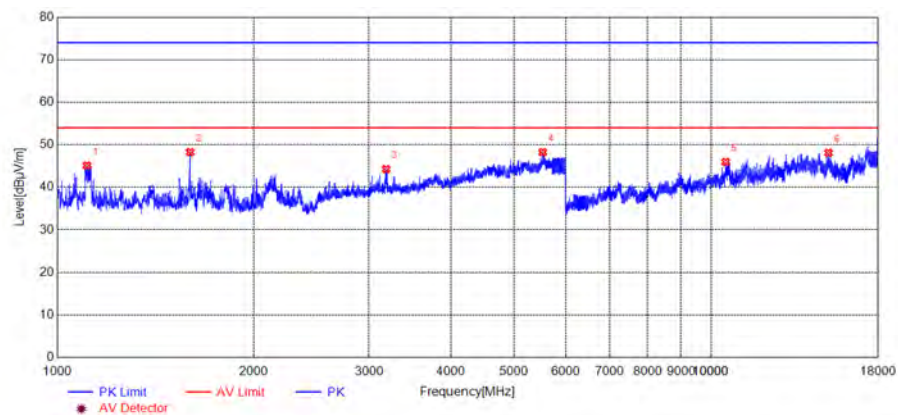
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1074.1790	43.06	-24.24	74.00	Horizontal	PASS
1595.9327	42.28	-23.62	74.00	Horizontal	PASS
3596.2660	43.69	-16.28	74.00	Horizontal	PASS
5552.4254	47.21	-8.30	74.00	Horizontal	PASS
9884.3237	43.57	0.44	74.00	Horizontal	PASS
13611.6343	48.34	6.99	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
30.9710	30.25	-32.94	40.00	Vertical	PASS
60.1001	30.50	-30.55	40.00	Vertical	PASS
132.9229	26.72	-34.78	43.50	Vertical	PASS
228.0781	26.71	-31.12	46.00	Vertical	PASS
316.4364	24.44	-28.76	46.00	Vertical	PASS
507.7177	22.39	-24.17	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

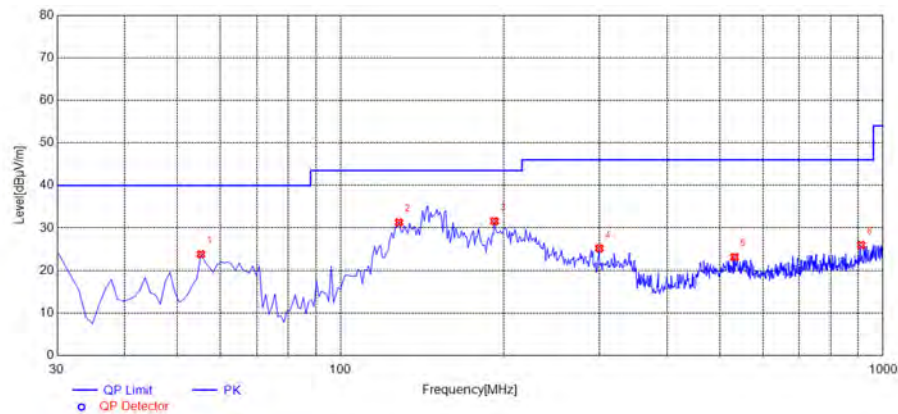


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1110.8518	45.13	-24.22	74.00	Vertical	PASS
1597.5996	48.27	-23.61	74.00	Vertical	PASS
3185.3642	44.28	-17.44	74.00	Vertical	PASS
5527.4212	48.25	-8.86	74.00	Vertical	PASS
10528.3774	45.96	2.37	74.00	Vertical	PASS
15120.7601	48.11	6.87	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

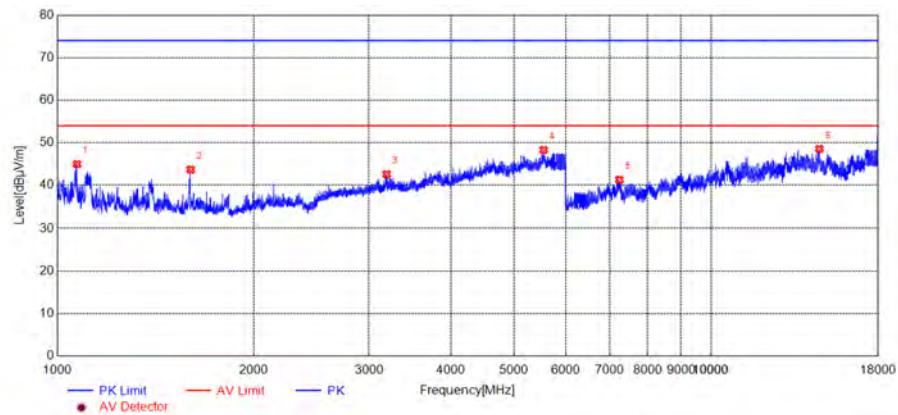


Plot for Channel 39



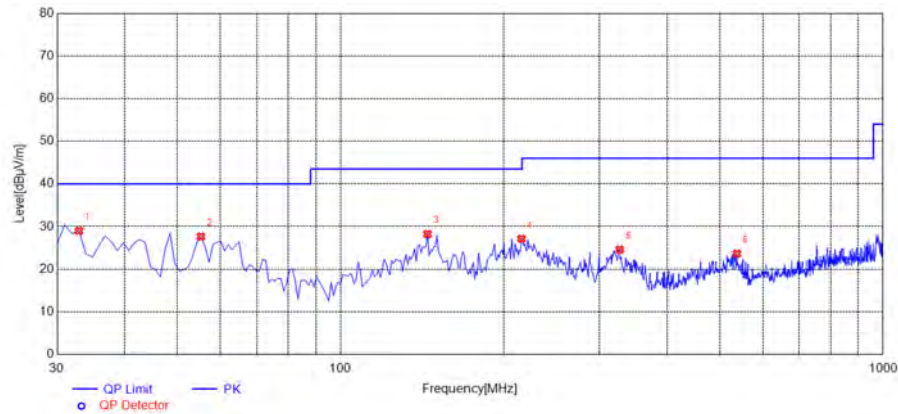
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
55.2452	23.81	-29.38	40.00	Horizontal	PASS
128.0681	31.31	-34.62	43.50	Horizontal	PASS
192.1522	31.56	-32.23	43.50	Horizontal	PASS
299.9299	25.21	-29.23	46.00	Horizontal	PASS
531.9920	23.16	-23.63	46.00	Horizontal	PASS
911.6416	25.99	-18.96	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



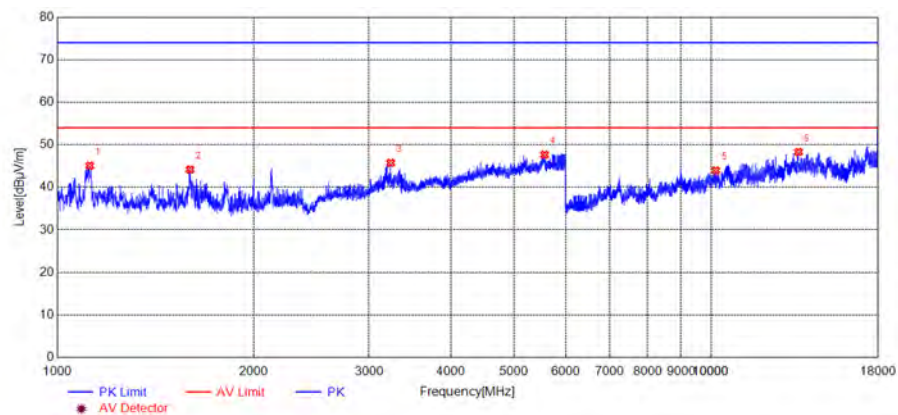
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1072.5121	44.96	-24.23	74.00	Horizontal	PASS
1600.1000	43.71	-23.59	74.00	Horizontal	PASS
3190.3651	42.60	-17.38	74.00	Horizontal	PASS
5547.4246	48.29	-8.28	74.00	Horizontal	PASS
7243.1036	41.27	-3.03	74.00	Horizontal	PASS
14645.7205	48.52	7.73	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
32.9129	28.98	-34.80	40.00	Vertical	PASS
55.2452	27.64	-29.38	40.00	Vertical	PASS
144.5746	28.25	-35.33	43.50	Vertical	PASS
215.4555	27.12	-31.92	43.50	Vertical	PASS
327.1171	24.59	-28.33	46.00	Vertical	PASS
537.8178	23.63	-23.46	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1121.6869	45.08	-24.04	74.00	Vertical	PASS
1596.7661	44.18	-23.62	74.00	Vertical	PASS
3236.2060	45.75	-17.18	74.00	Vertical	PASS
5562.4271	47.65	-8.69	74.00	Vertical	PASS
10168.3474	43.98	0.68	74.00	Vertical	PASS
13603.6336	48.31	7.45	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

END OF REPORT