



REPORT No.: SZ26010451W01

TEST REPORT

APPLICANT : Wuxi iData Technology Company Ltd.

PRODUCT NAME : New Mobile Computer

MODEL NAME : Refer 2.2

BRAND NAME : N/A

FCC ID : 2ADE3IDATAK8

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2026-02-03

TEST DATE : 2026-03-06 to 2026-04-19

ISSUE DATE : 2026-05-21



Edited by:

Zeng Xiaoying
Zeng Xiaoying (Rapporteur)

Approved by:

Shen Junsheng
Shen Junsheng (Supervisor)

NOTE: This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

MORLAB

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

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





DIRECTORY

1. Summary of Test Result	4
1.1. Testing Applied Standards	4
1.2. Test Equipment List	5
1.3. Measurement Uncertainty	7
1.4. Testing Laboratory	7
2. General Description	8
2.1. Information of Applicant and Manufacturer	8
2.2. Information of EUT	8
2.3. Channel List of EUT	11
2.4. Test Configuration of EUT	12
2.5. Test Conditions	12
2.6. Test Setup Layout Diagram	12
3. Test Results	15
3.1. Antenna Requirement	15
3.2. Duty Cycle of Test Signal	16
3.3. Maximum Peak Conducted Output Power	17
3.4. Maximum Average Conducted Output Power	18
3.5. 6 dB Bandwidth	19
3.6. Conducted Spurious Emissions and Band Edge	20
3.7. Power Spectral Density	21
3.8. Conducted Emission	22
3.9. Restricted Frequency Bands	23
3.10. Radiated Emission	24
Annex A Test Data and Result	26
Notes	78



REPORT No.: SZ26010451W01

Change History		
Version	Date	Reason for change
1.0	2026-05-21	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	Mar. 23, 2026	Zhu Peihong	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Mar. 23, 2026	Zhu Peihong	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Mar. 23, 2026	Zhu Peihong	PASS	/
5	15.247(a)	Bandwidth	Mar. 23, 2026	Zhu Peihong	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Mar. 23, 2026	Zhu Peihong	PASS	/
7	15.247(e)	Power Spectral Density	Mar. 23, 2026	Zhu Peihong	PASS	/
8	15.207	Conducted Emission	Mar. 21, 2026	Wang Yapeng	PASS	/
9	15.247(d)	Restricted Frequency Bands	Mar. 06 to 24, 2026	Gao Jianrou	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Mar. 06 to 24, 2026	Gao Jianrou	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	2025.04.18	2026.04.17
				2026.03.18	2027.03.17
INTELLIGENT PURE SINE- WAVE POWER SUPPLY	1008004	TPS 500B	EVERFINE	2025.09.11	2026.09.10
RF Coaxial Cable (DC-100MHz)	EMC-CE- 00514	N/A	N/A	2025.05.06	2026.05.05

1.2.3 List of Software Used

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

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2025.06.28	2026.06.27
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	9120D-963	BBHA 9120D	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2025.06.20	2026.06.19
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	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
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, No.999 Gaolang East Road Wuxi City, P.R.C.
Manufacturer:	N/A
Manufacturer Address:	N/A

2.2. Information of EUT

Product Name:	New Mobile Computer
Sample No.:	1#, 3#, 23#
Model Name:	iData K8, K8, K8S, K8Pro, K8Turbo, K8A, K8G, K8L, K8COLD, K8SCOLD, K8ProCOLD, K8TurboCOLD, K8ACOLD, K8GCOLD, K8LCOLD, K8HC, K8SHC, K8ProHC, K8TurboHC, K8AHC, K8GHC, K8LHC, K8Ex, K8SEx, K8ProEx, K8TurboEx, K8AEx, K8GEx, K8LEx, K8UHF, K8SUHF, K8ProUHF, K8TurboUHF, K8AUHF, K8GUHF, K8LUHF, K8X, K8SX, K8ProX, K8TurboX, K8AX, K8GX, K8LX, K8DBD, K8SDBD, K8ProDBD, K8TurboDBD, K8ADBD, K8GDBD, K8LDBD, K8DMR, K8SDMR, K8ProDMR, K8TurboDMR, K8ADMR, K8GDMR, K8LDMR, K8RDSS, K8SRDSS, K8ProRDSS, K8TurboRDSS, K8ARDSS, K8GRDSS, K8LRDSS, K8LEC, K8SLEC, K8ProLEC, K8TurboLEC, K8ALEC, K8GLEC, K8LLEC, iDataK8, iDataK8S, iDataK8Pro, iDataK8Turbo, iDataK8A, iDataK8G, iDataK8L, iDataK8COLD, iDataK8SCOLD, iDataK8ProCOLD, iDataK8TurboCOLD, iDataK8ACOLD, iDataK8GCOLD, iDataK8LCOLD, iDataK8HC, iDataK8SHC, iDataK8ProHC, iDataK8TurboHC, iDataK8AHC, iDataK8GHC, iDataK8LHC, iDataK8Ex, iDataK8SEx, iDataK8ProEx, iDataK8TurboEx, iDataK8AEx, iDataK8GEx, iDataK8LEx, iDataK8UHF, iDataK8SUHF, iDataK8ProUHF, iDataK8TurboUHF, iDataK8AUHF, iDataK8GUHF, iDataK8LUHF, iDataK8X, iDataK8SX, iDataK8ProX, iDataK8TurboX, iDataK8AX, iDataK8GX, iDataK8LX, iDataK8DBD, iDataK8SDBD, iDataK8ProDBD, iDataK8TurboDBD, iDataK8ADBD, iDataK8GDBD,



	iDataK8LDBD, iDataK8DMR, iDataK8SDMR, iDataK8ProDMR, iDataK8TurboDMR, iDataK8ADMR, iDataK8GDMR, iDataK8LDMR, iDataK8RDSS, iDataK8SRDSS, iDataK8ProRDSS, iDataK8TurboRDSS, iDataK8ARDSS, iDataK8GRDSS, iDataK8LRDSS, iDataK8LEC, iDataK8SLEC, iDataK8ProLEC, iDataK8TurboLEC, iDataK8ALEC, iDataK8GLEC, iDataK8LLEC, S37, M62, C55, T80, Y81, Z36	
Hardware Version:	H231XO	
Software Version:	12.00	
Equipment Type:	Bluetooth LE	
Bluetooth Version:	5.2	
Modulation Type:	GFSK	
Data Rate:	1Mbps, 2Mbps	
Operating Frequency Range:	2402MHz-2480MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	-0.07dBi	
Accessory Information:	Battery	
	Brand Name:	NA
	Model No.:	CLP605
	Serial No.:	N/A
	Capacity:	6700mAh
	Rated Voltage:	3.6V
	Charge Limit:	4.2V
	Manufacturer:	Shenzhen Cholipower Technology Co.,LTD.
	AC Adapter	
	Brand Name:	NA
	Model No.:	TPA-10S120150UU01
	Serial No.:	N/A
	Rated Output:	3.6-6V=3A, 6-9V=2A, 9-12V=1.5A
	Rated Input:	100-240V~50/60Hz, 0.6A
	Manufacturer:	Shenzhen Tianyin Electronics Co., Ltd
	USB Cable	
	Model No.:	00150-18031601
	Manufacturer:	Dongguan Trangjan Industrial Investment Co., Ltd.



Note 1: According to the certificate holder, they declared that the models iData K8, K8, K8S, K8Pro, K8Turbo, K8A, K8G, K8L, K8COLD, K8SCOLD, K8ProCOLD, K8TurboCOLD, K8ACOLD, K8GCOLD, K8LCOLD, K8HC, K8SHC, K8ProHC, K8TurboHC, K8AHC, K8GHC, K8LHC, K8Ex, K8SEx, K8ProEx, K8TurboEx, K8AEx, K8GEx, K8LEx, K8UHF, K8SUHF, K8ProUHF, K8TurboUHF, K8AUHF, K8GUHF, K8LUHF, K8X, K8SX, K8ProX, K8TurboX, K8AX, K8GX, K8LX, K8DBD, K8SDBD, K8ProDBD, K8TurboDBD, K8ADB, K8GDBD, K8LDBD, K8DMR, K8SDMR, K8ProDMR, K8TurboDMR, K8ADMR, K8GDMR, K8LDMR, K8RDSS, K8SRDSS, K8ProRDSS, K8TurboRDSS, K8ARDSS, K8GRDSS, K8LRDSS, K8LEC, K8SLEC, K8ProLEC, K8TurboLEC, K8ALEC, K8GLEC, K8LLEC, iDataK8, iDataK8S, iDataK8Pro, iDataK8Turbo, iDataK8A, iDataK8G, iDataK8L, iDataK8COLD, iDataK8SCOLD, iDataK8ProCOLD, iDataK8TurboCOLD, iDataK8ACOLD, iDataK8GCOLD, iDataK8LCOLD, iDataK8HC, iDataK8SHC, iDataK8ProHC, iDataK8TurboHC, iDataK8AHC, iDataK8GHC, iDataK8LHC, iDataK8Ex, iDataK8SEx, iDataK8ProEx, iDataK8TurboEx, iDataK8AEx, iDataK8GEx, iDataK8LEx, iDataK8UHF, iDataK8SUHF, iDataK8ProUHF, iDataK8TurboUHF, iDataK8AUHF, iDataK8GUHF, iDataK8LUHF, iDataK8X, iDataK8SX, iDataK8ProX, iDataK8TurboX, iDataK8AX, iDataK8GX, iDataK8LX, iDataK8DBD, iDataK8SDBD, iDataK8ProDBD, iDataK8TurboDBD, iDataK8ADB, iDataK8GDBD, iDataK8LDBD, iDataK8DMR, iDataK8SDMR, iDataK8ProDMR, iDataK8TurboDMR, iDataK8ADMR, iDataK8GDMR, iDataK8LDMR, iDataK8RDSS, iDataK8SRDSS, iDataK8ProRDSS, iDataK8TurboRDSS, iDataK8ARDSS, iDataK8GRDSS, iDataK8LRDSS, iDataK8LEC, iDataK8SLEC, iDataK8ProLEC, iDataK8TurboLEC, iDataK8ALEC, iDataK8GLEC, iDataK8LLEC, S37, M62, C55, T80, Y81 and Z36 only different in model name, everything else is the same. The main measuring model is iData K8, only the results for iData K8 were recorded in this report.

Note 2: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



2.3.Channel List of EUT

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

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

2.4. Test Configuration of EUT

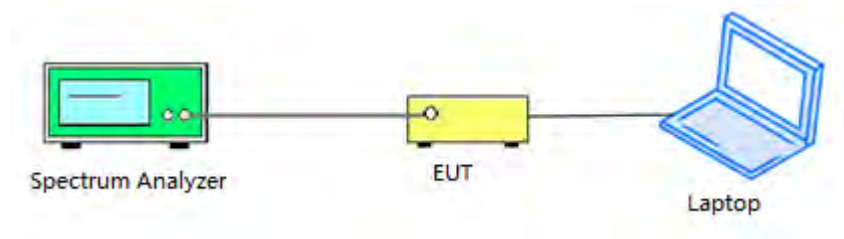
The EUT is controlled by dedicated software to transmit at the default maximum power level.

2.5. Test Conditions

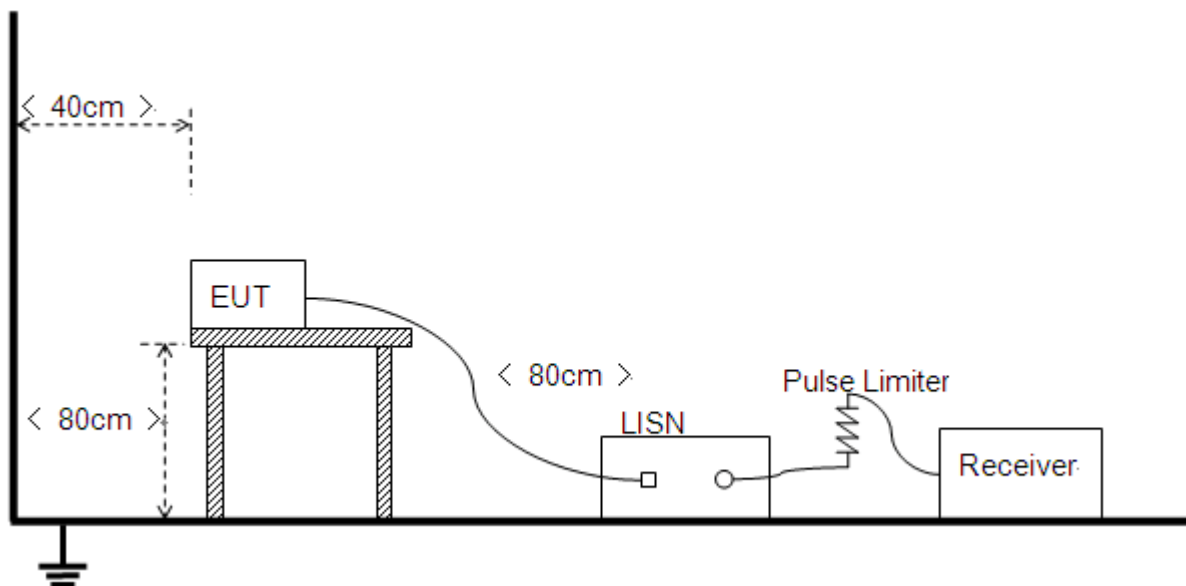
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

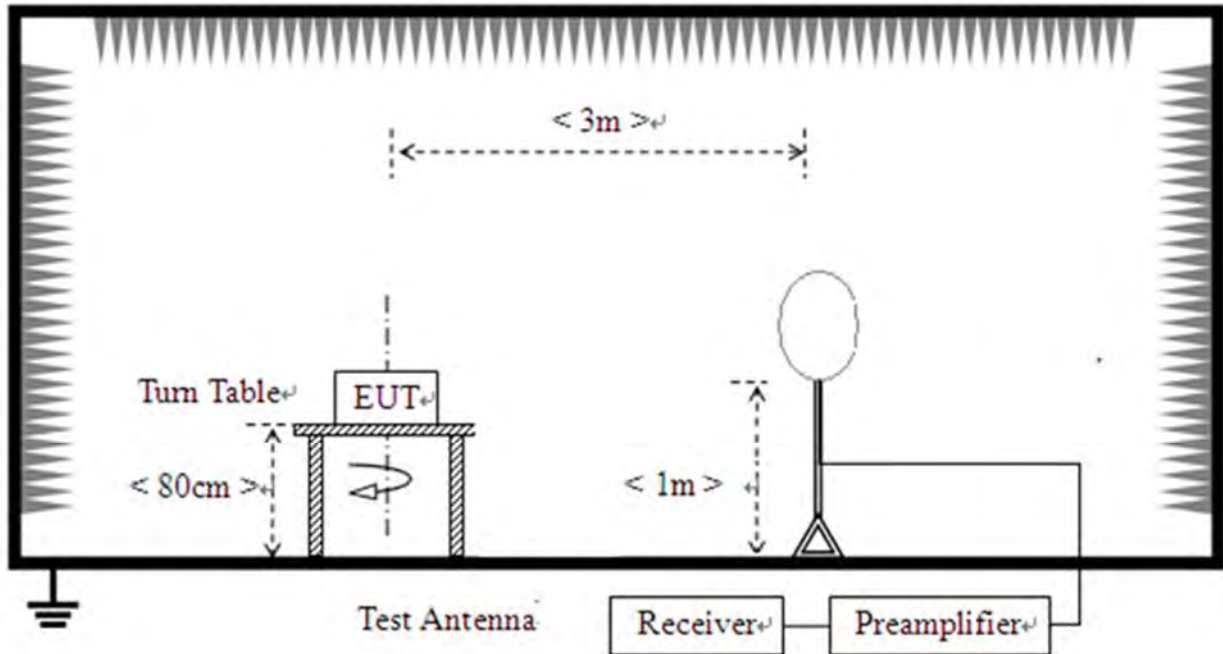


2.6.2. Conducted Emission Measurement

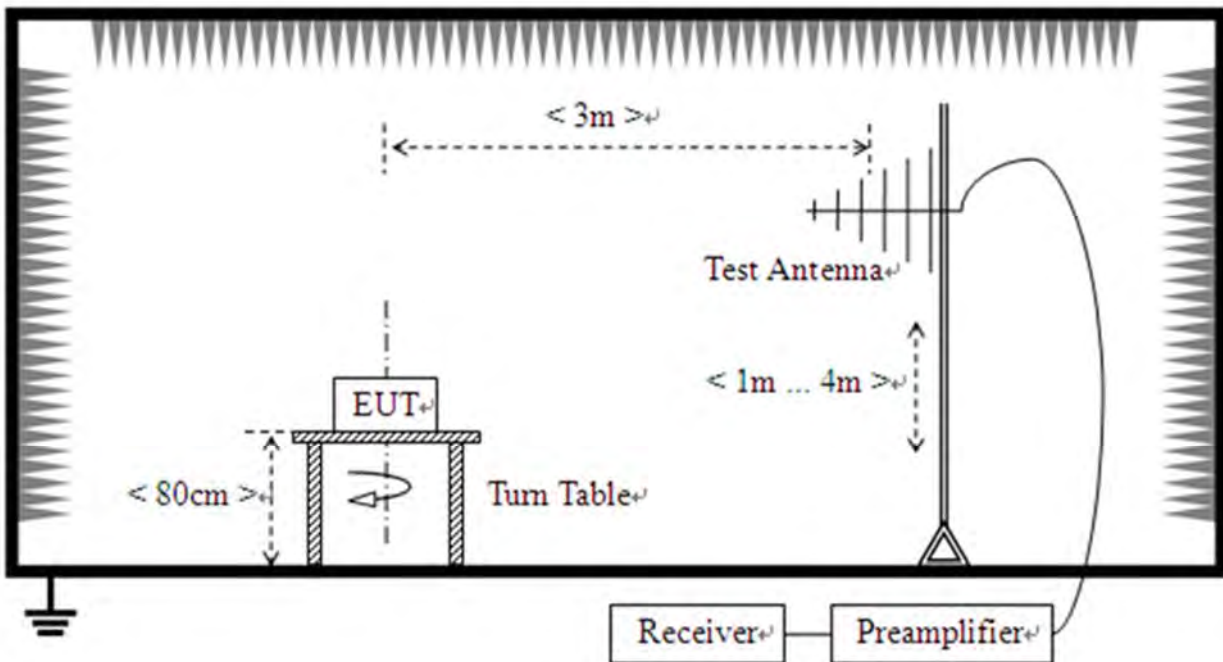


2.6.3.Radiation Measurement

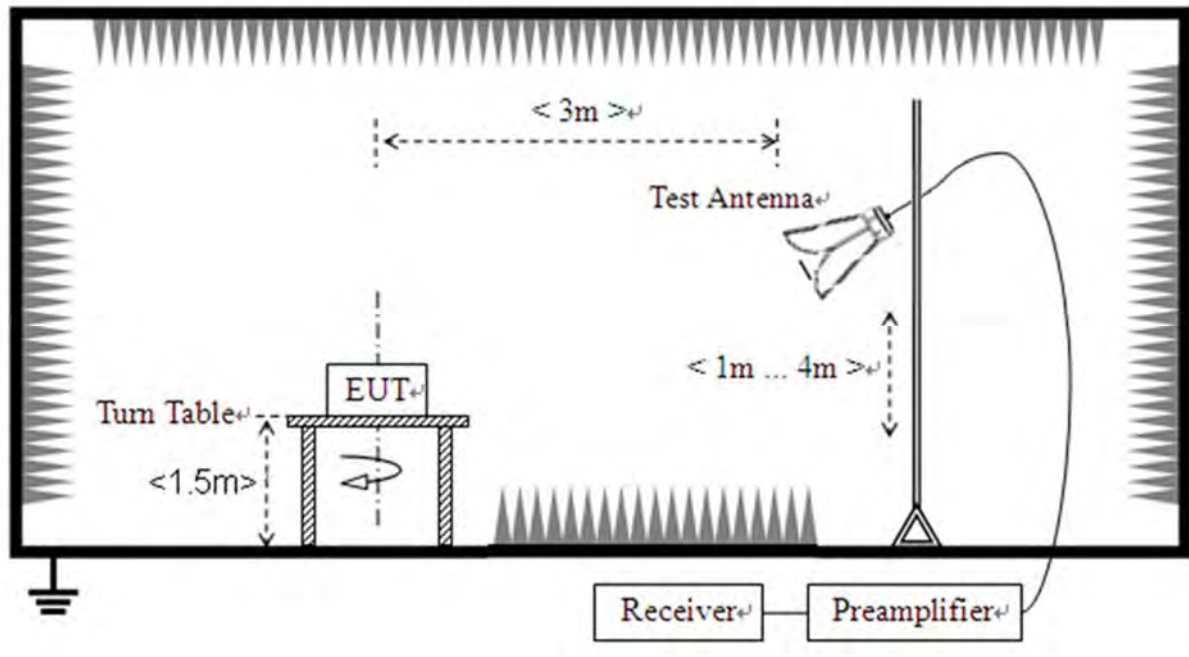
1) For radiated emissions from 9kHz to 30MHz



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 ☐ Chip 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 ($\mu\text{V}/\text{m}$)	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

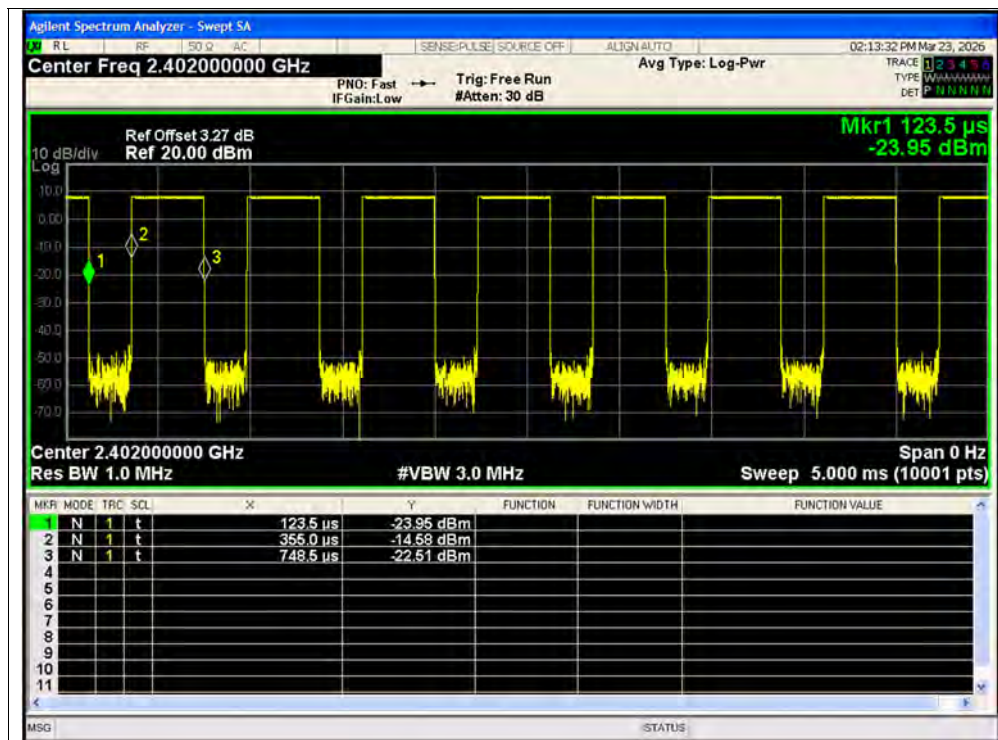
Refer to Annex A.10 in this report.



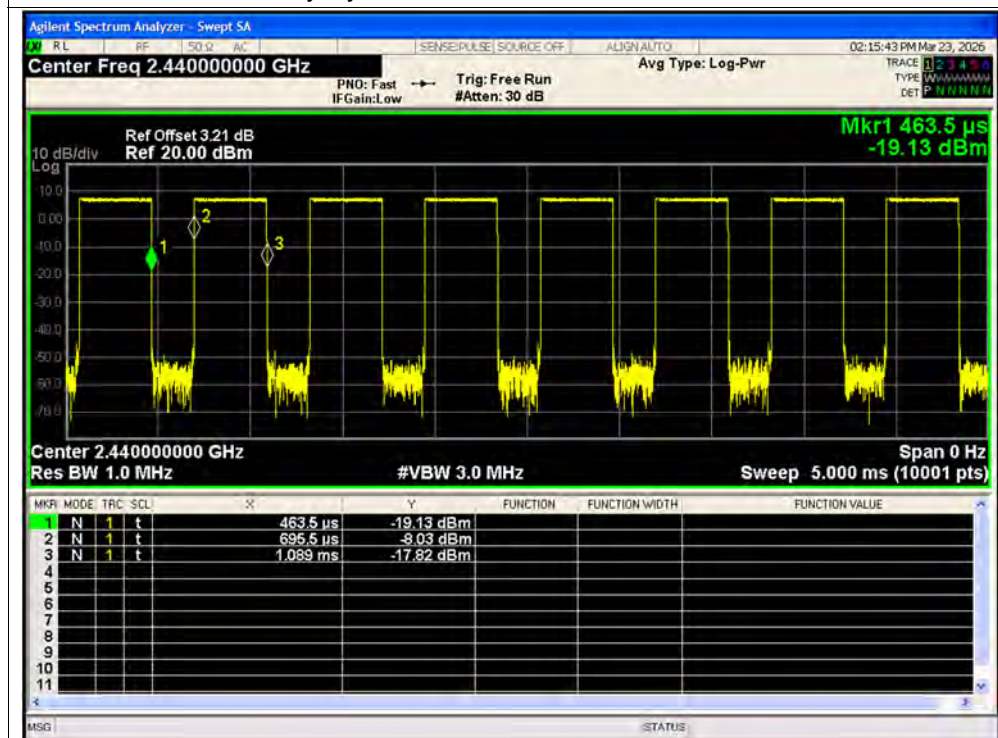
Annex A Test Data and Result

A.1. Duty Cycle of Test Signal

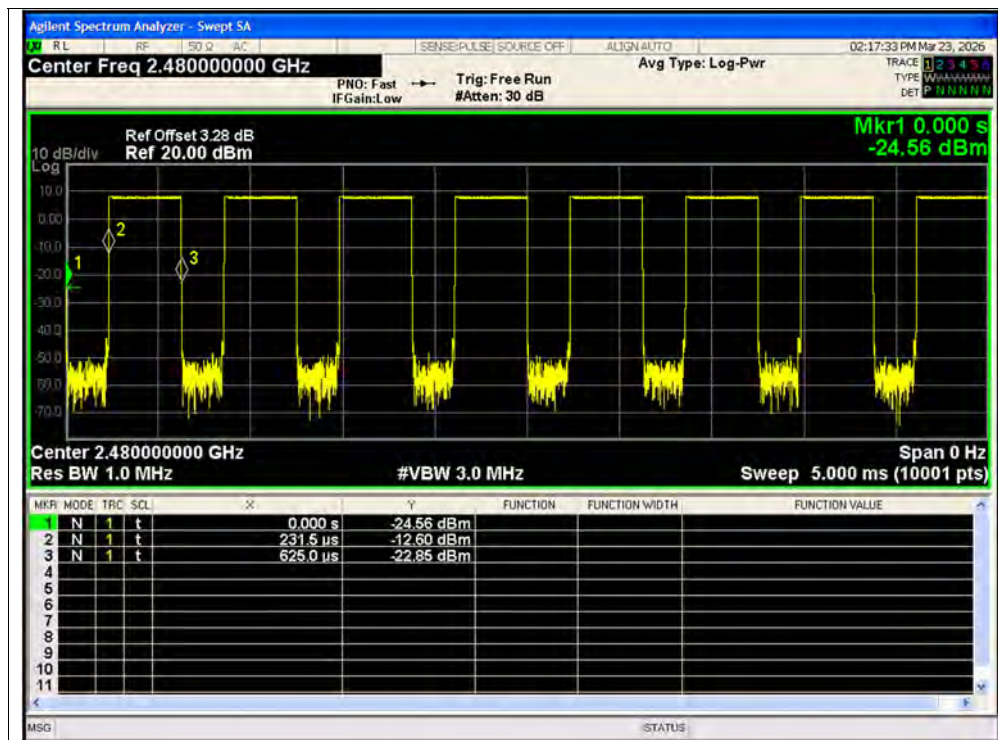
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	62.96	2.01	2.54
NVNT	BLE 1M	2440	Ant1	62.88	2.01	2.54
NVNT	BLE 1M	2480	Ant1	62.96	2.01	2.54
NVNT	BLE 2M	2402	Ant1	33.28	4.78	4.81
NVNT	BLE 2M	2440	Ant1	33.28	4.78	4.81
NVNT	BLE 2M	2480	Ant1	33.36	4.77	4.8



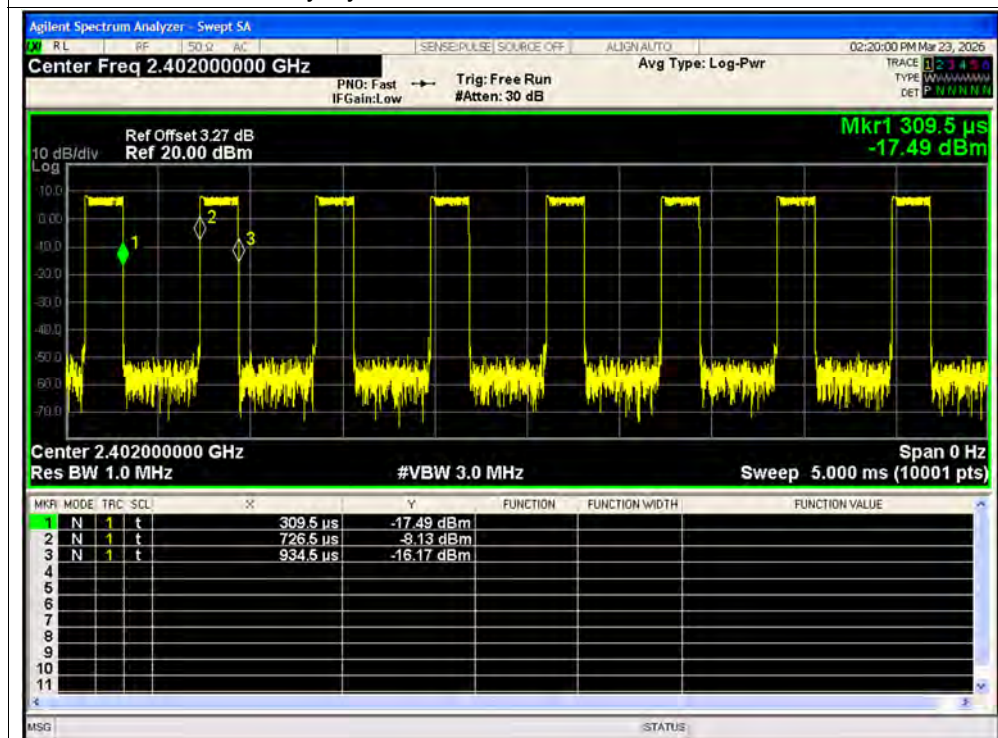
Duty Cycle NVNT BLE 1M 2402MHz Ant1



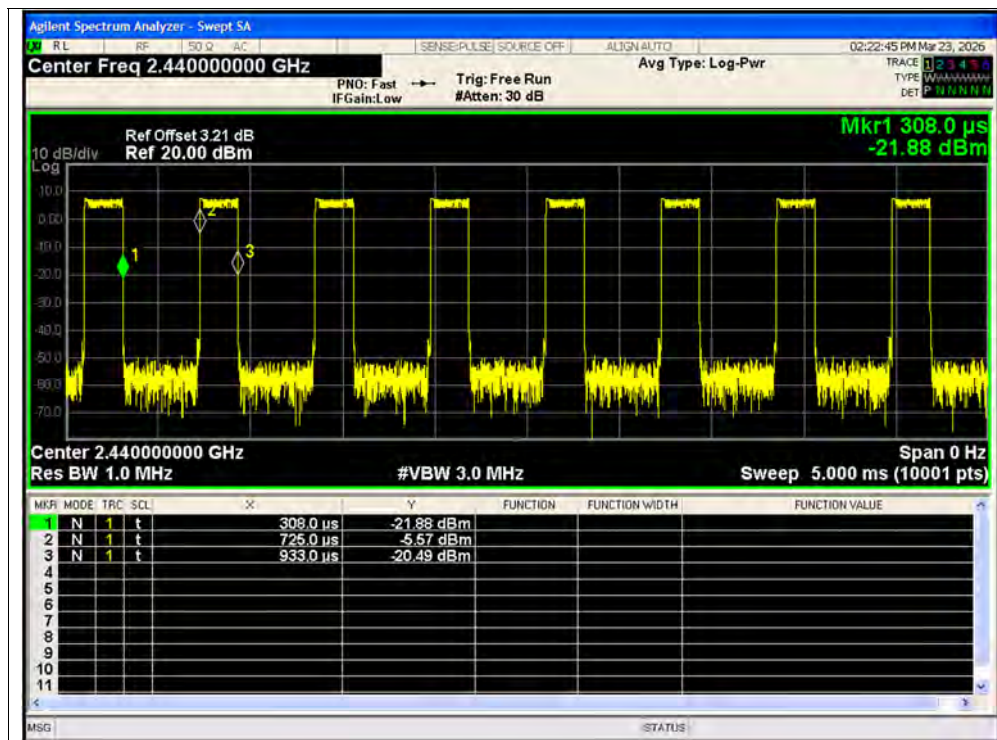
Duty Cycle NVNT BLE 1M 2440MHz Ant1



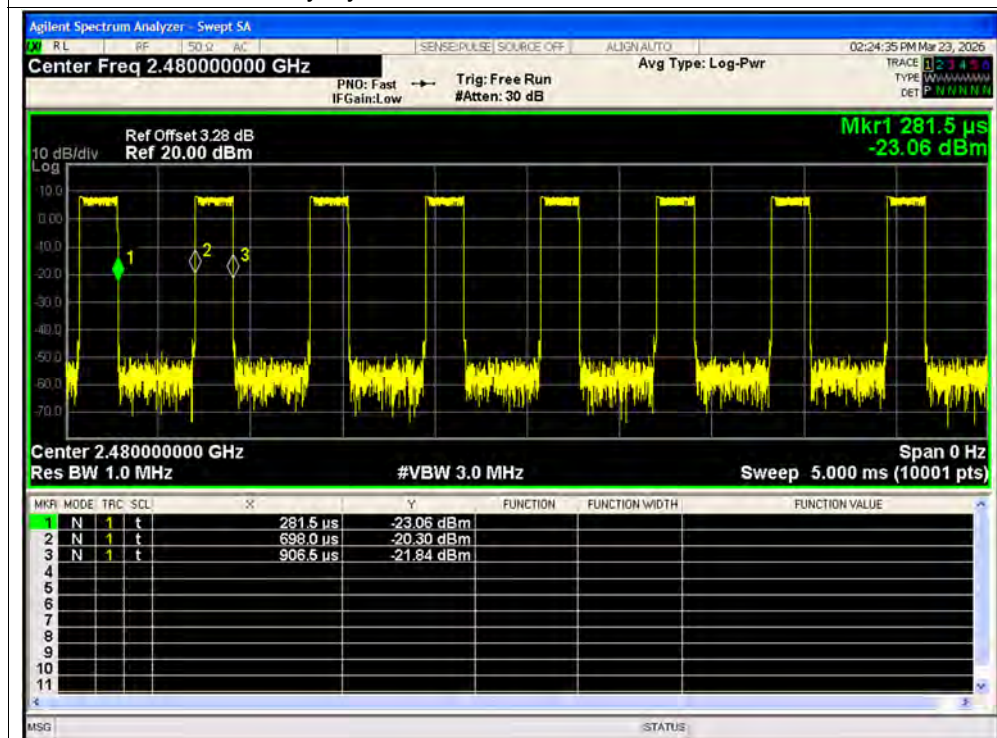
Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1



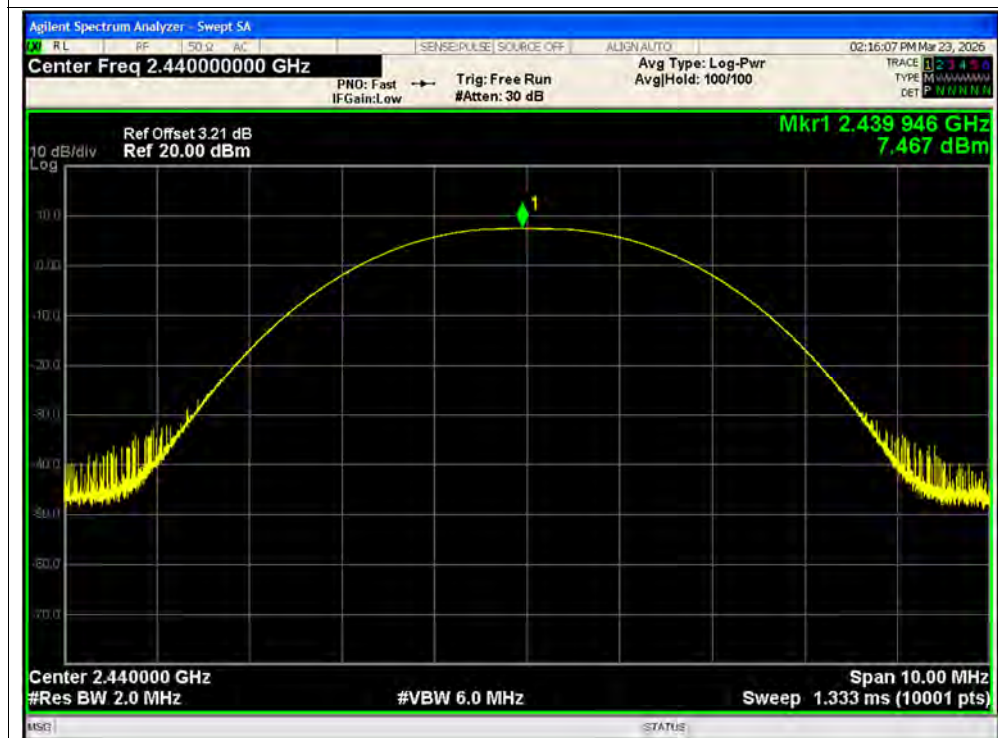
Duty Cycle NVNT BLE 2M 2480MHz Ant1

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

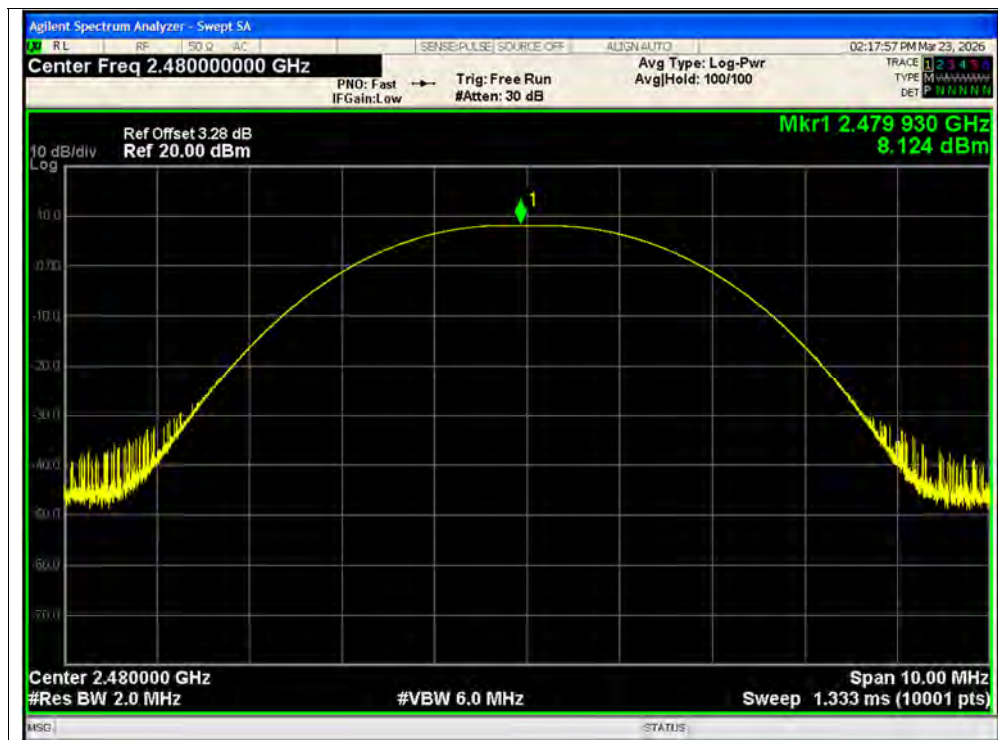
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	8.16	0	8.16	0.00086	30	Pass
NVNT	BLE 1M	2440	Ant1	7.47	0	7.47	0.00092	30	Pass
NVNT	BLE 1M	2480	Ant1	8.12	0	8.12	0.00098	30	Pass
NVNT	BLE 2M	2402	Ant1	8.25	0	8.25	0.00087	30	Pass
NVNT	BLE 2M	2440	Ant1	7.49	0	7.49	0.00095	30	Pass
NVNT	BLE 2M	2480	Ant1	8.19	0	8.19	0.001	30	Pass



Peak Power NVNT BLE 1M 2402MHz Ant1



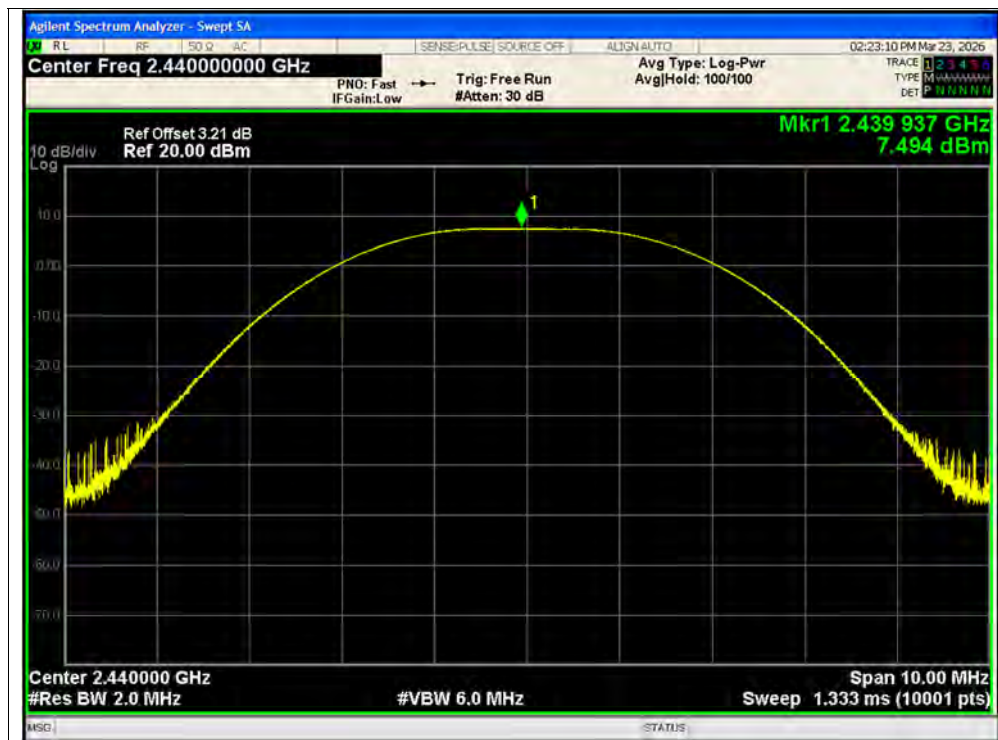
Peak Power NVNT BLE 1M 2440MHz Ant1



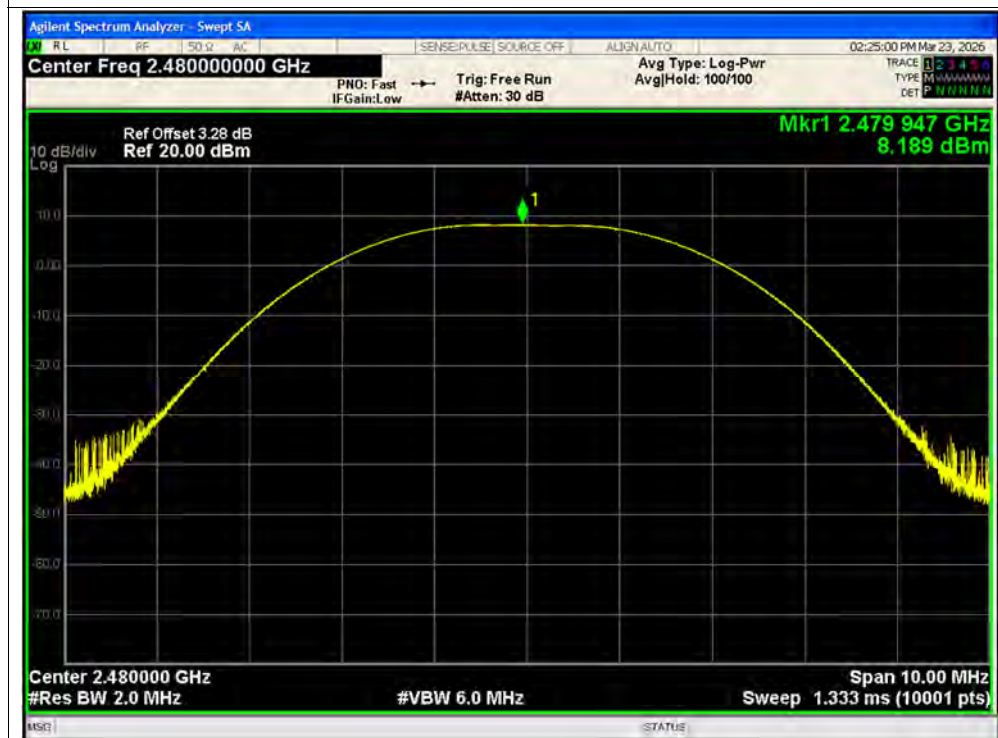
Peak Power NVNT BLE 1M 2480MHz Ant1



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	5.86	2.01	7.87	0.00612	30	Pass
NVNT	BLE 1M	2440	Ant1	5.27	2.01	7.28	0.00535	30	Pass
NVNT	BLE 1M	2480	Ant1	6.02	2.01	8.03	0.00635	30	Pass
NVNT	BLE 2M	2402	Ant1	3.24	4.78	8.02	0.00634	30	Pass
NVNT	BLE 2M	2440	Ant1	2.46	4.78	7.24	0.0053	30	Pass
NVNT	BLE 2M	2480	Ant1	3.12	4.77	7.89	0.00615	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



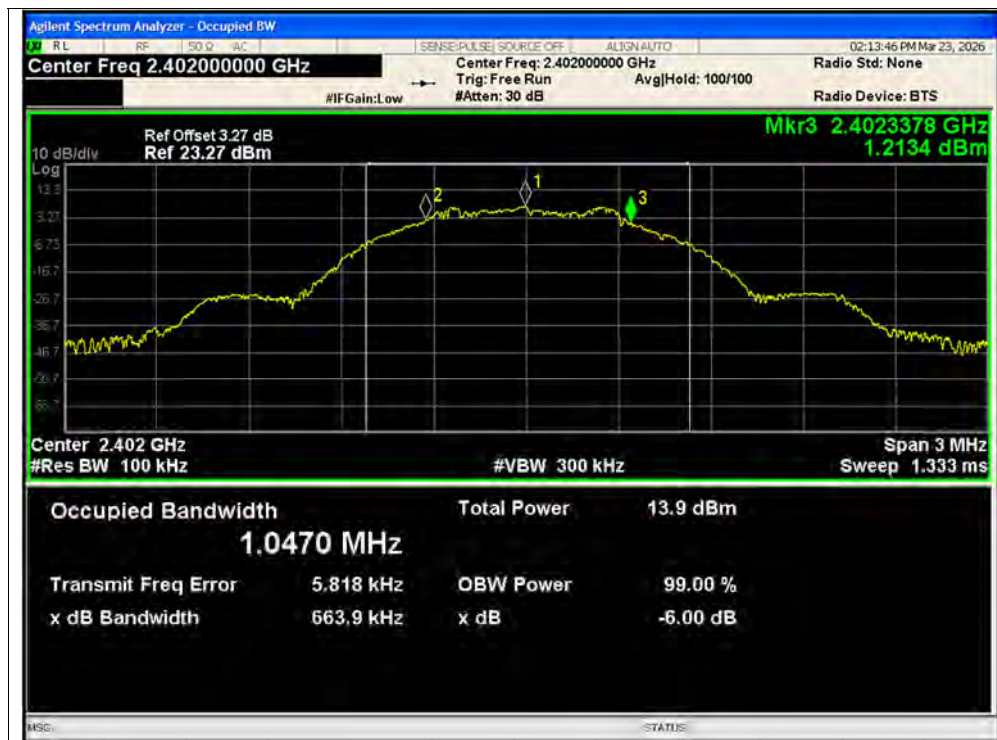
Average Power NVNT BLE 2M 2440MHz Ant1



Average Power NVNT BLE 2M 2480MHz Ant1

**A.4. 6 dB Bandwidth**

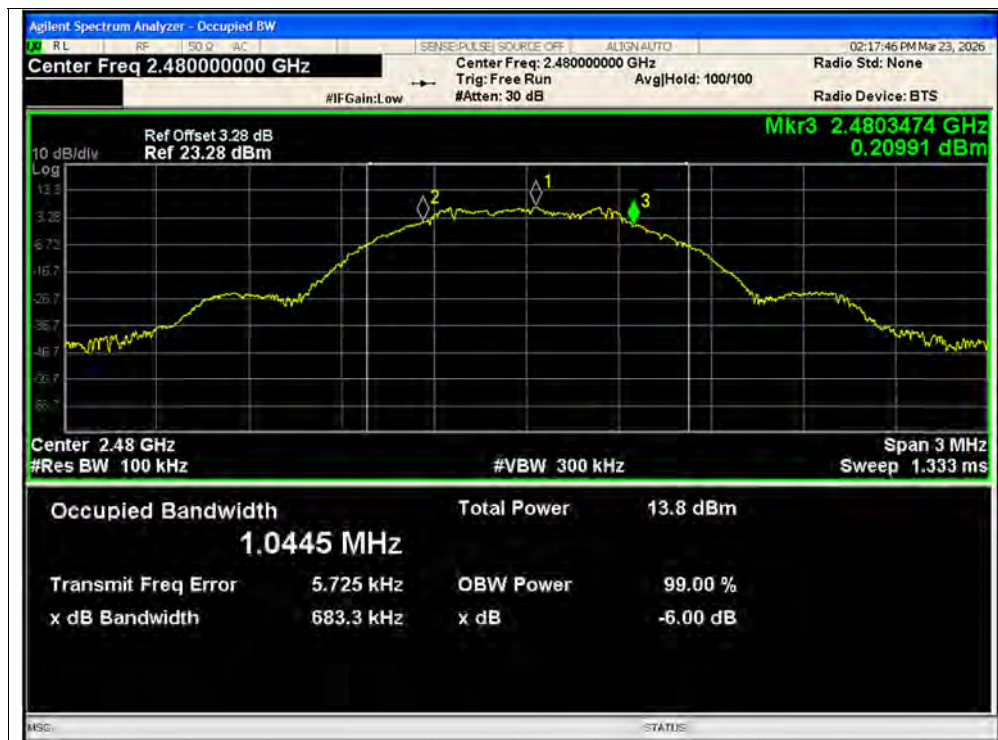
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6639	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6947	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6833	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.111	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.117	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.139	0.5	Pass



-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



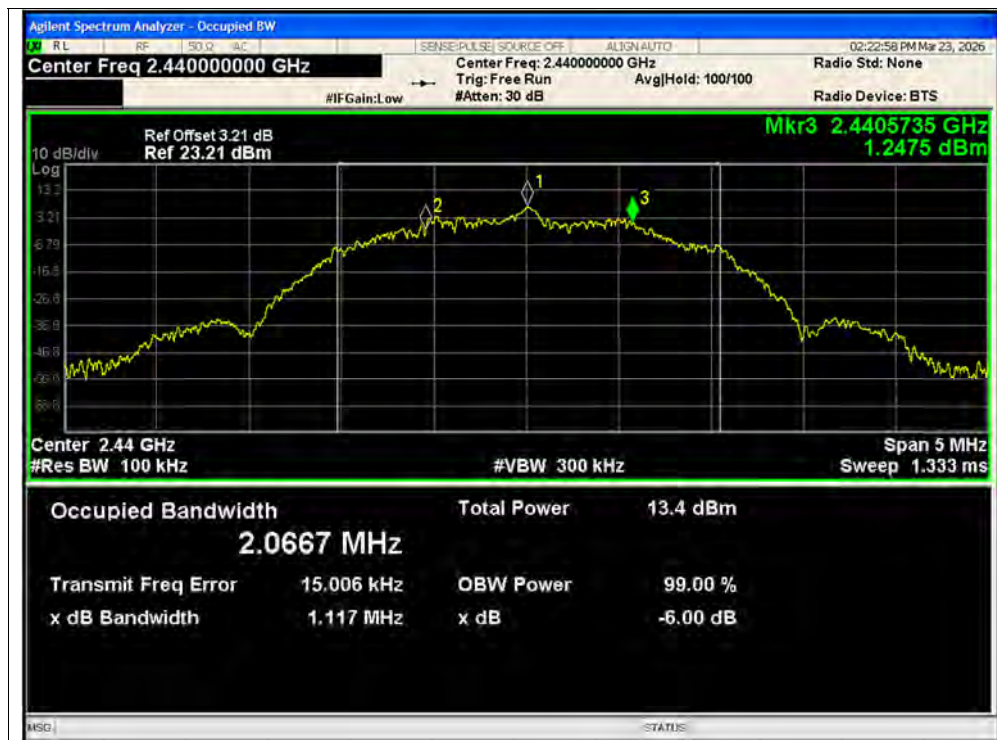
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



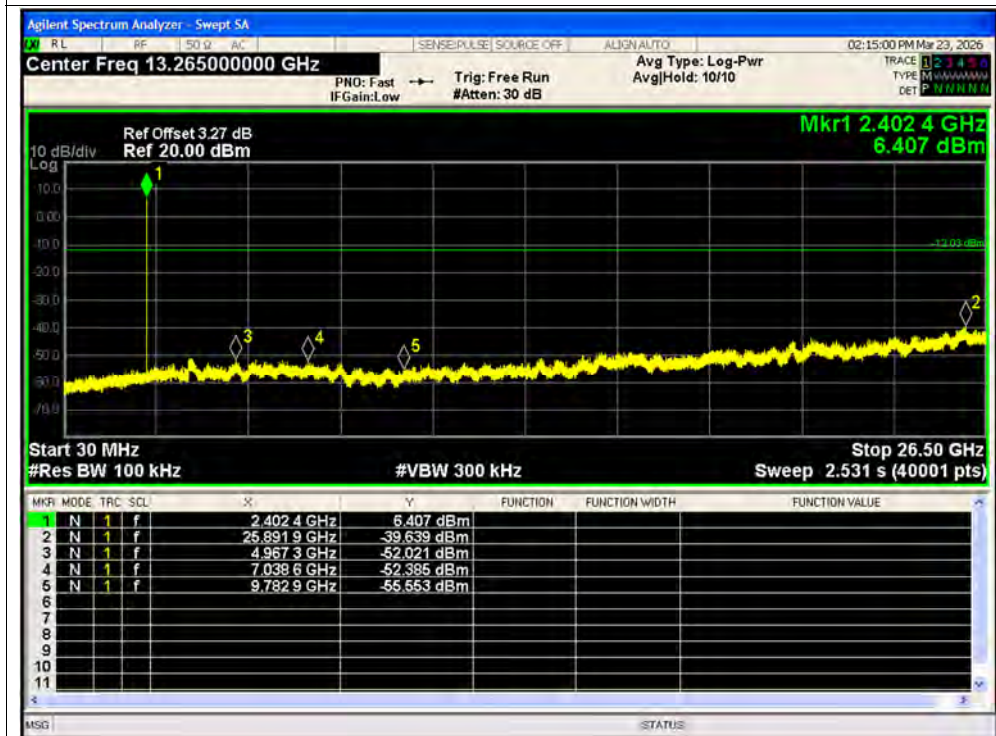
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

**A.5. Conducted Spurious Emissions**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-47.6	-20	Pass
NVNT	BLE 1M	2440	Ant1	-46.96	-20	Pass
NVNT	BLE 1M	2480	Ant1	-47.24	-20	Pass
NVNT	BLE 2M	2402	Ant1	-47.64	-20	Pass
NVNT	BLE 2M	2440	Ant1	-46.03	-20	Pass
NVNT	BLE 2M	2480	Ant1	-46.75	-20	Pass



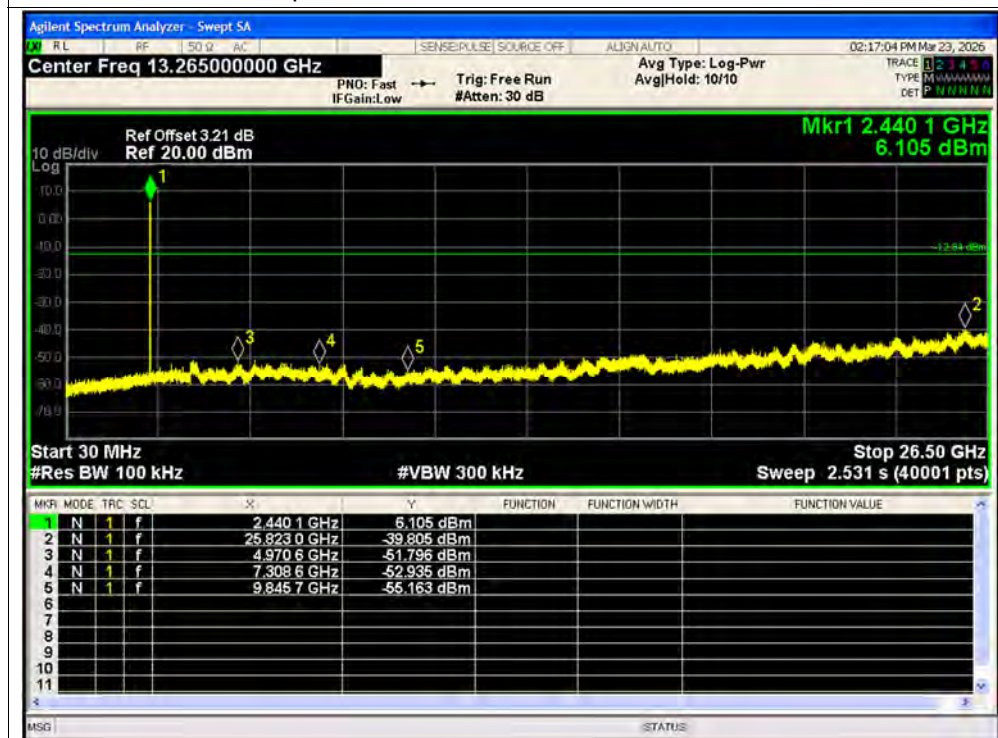
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



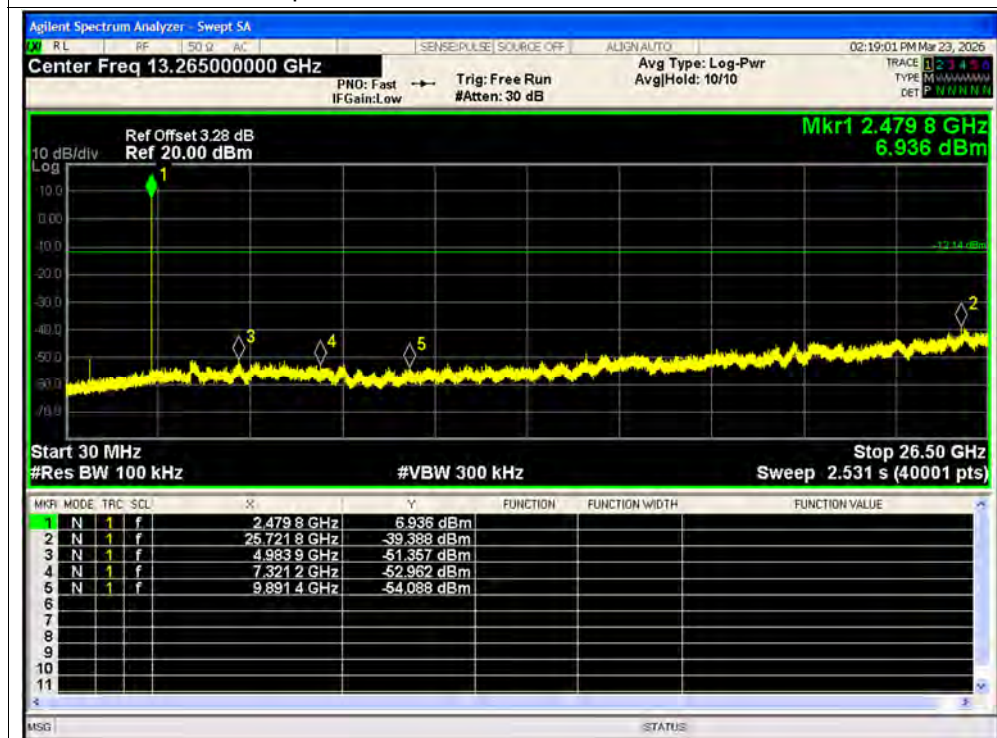
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



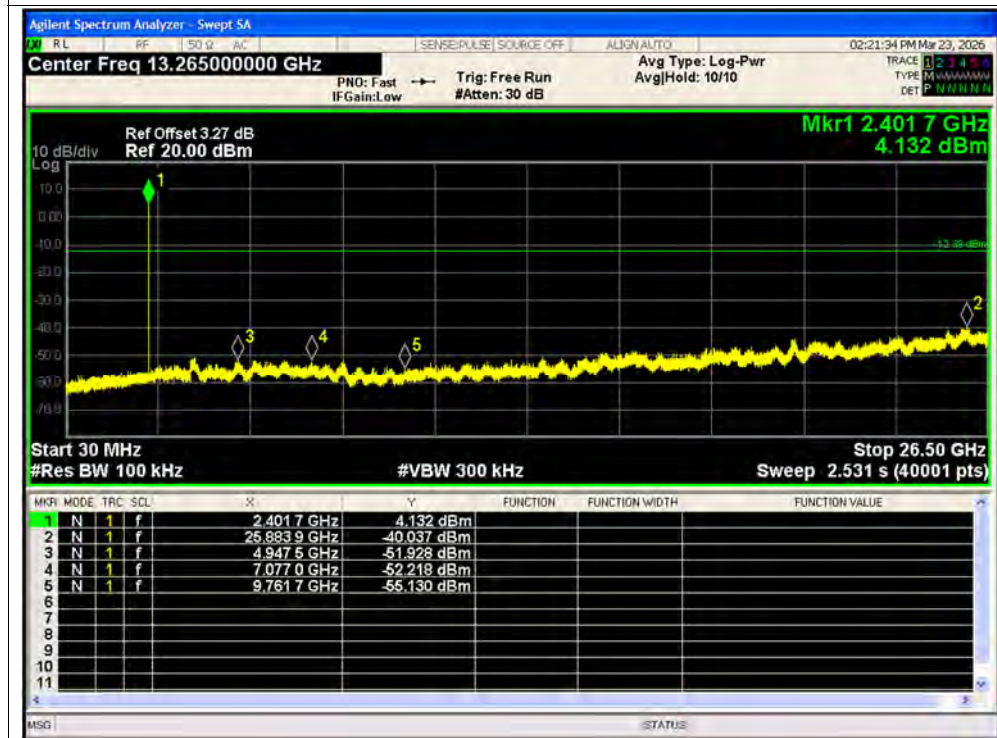
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



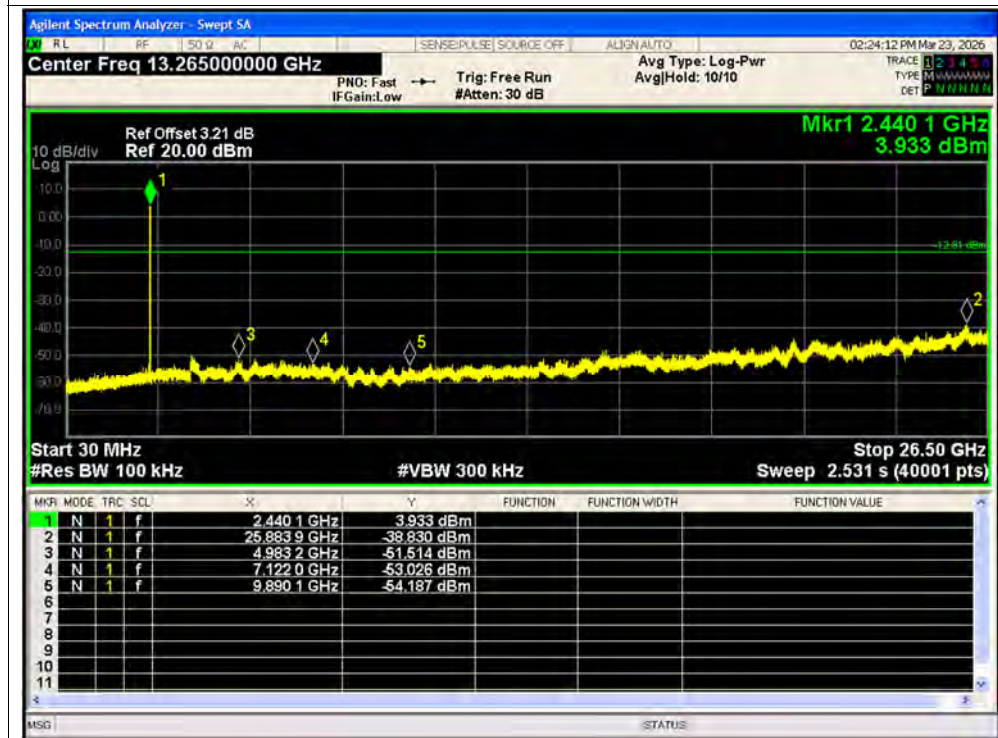
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



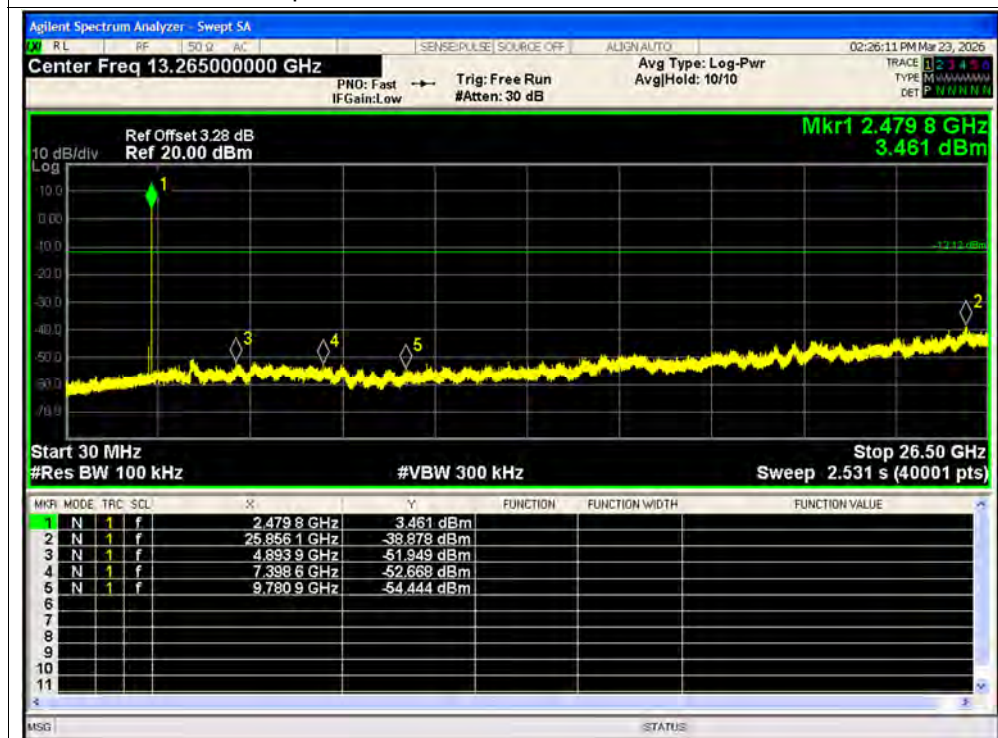
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



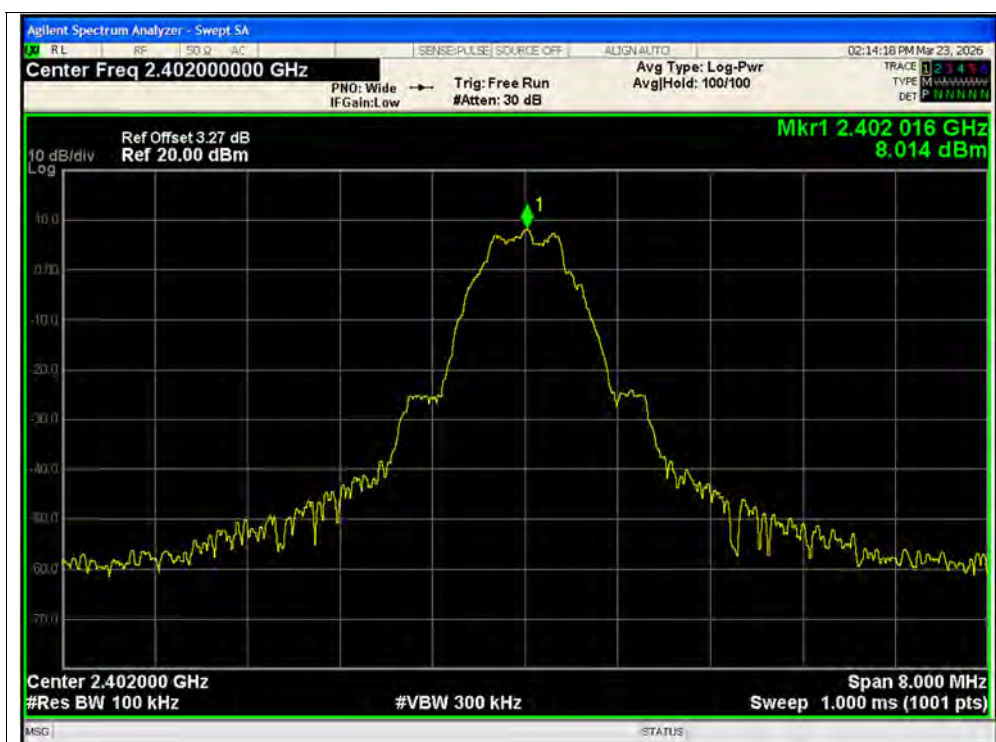
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



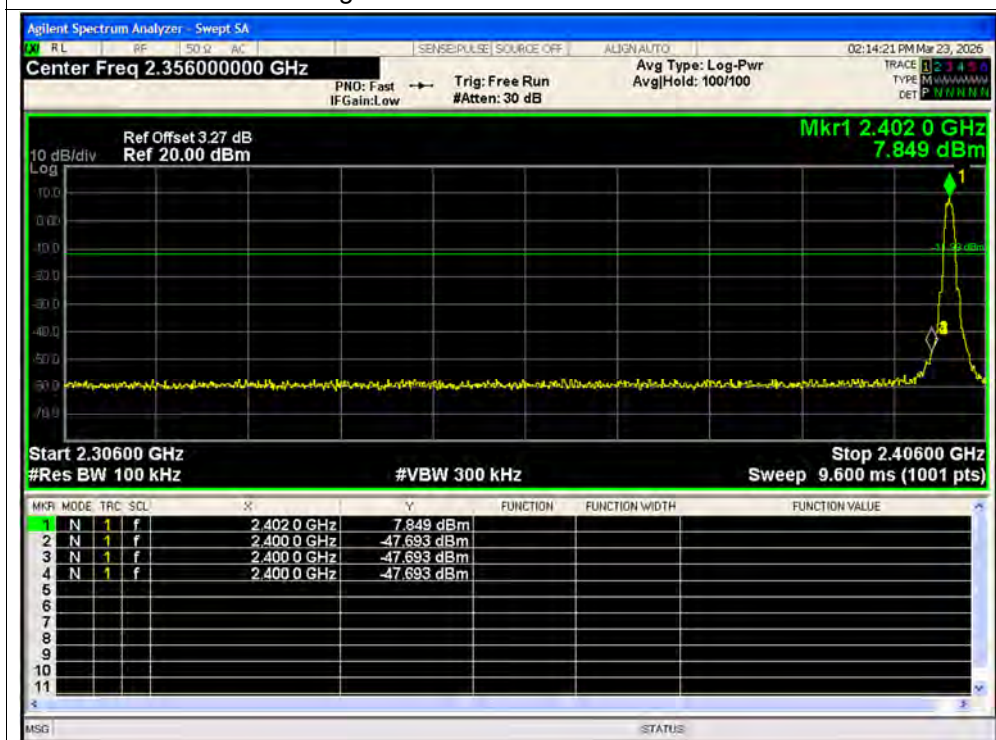
REPORT No.: SZ26010451W01

A.6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.7	-20	Pass
NVNT	BLE 1M	2480	Ant1	-62.99	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.38	-20	Pass
NVNT	BLE 2M	2480	Ant1	-64.21	-20	Pass



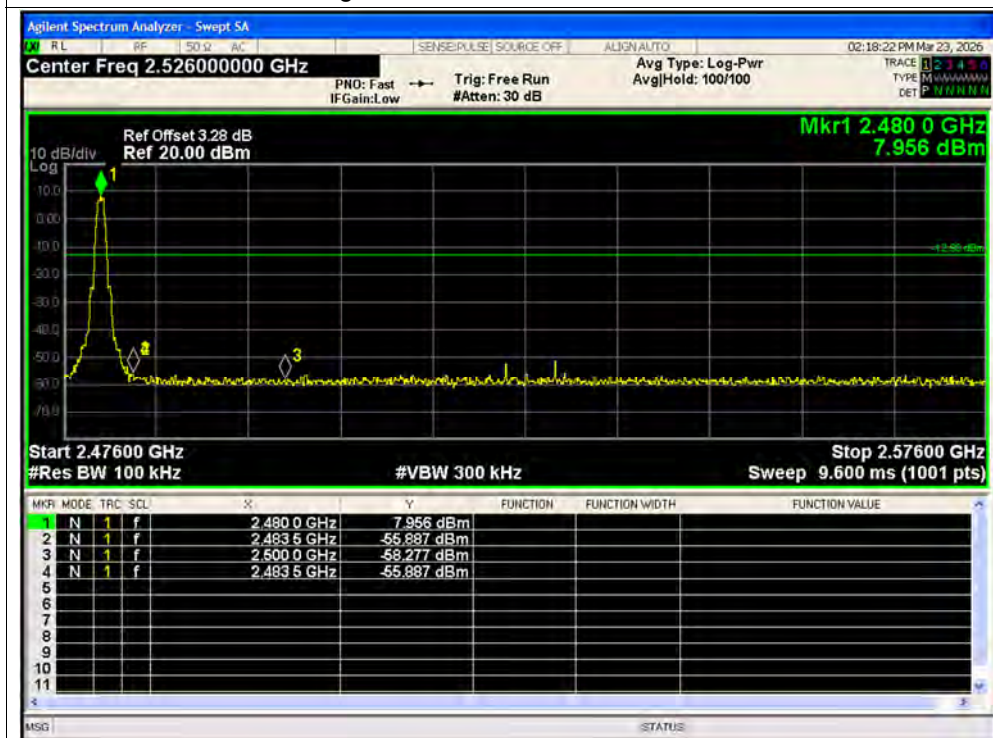
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



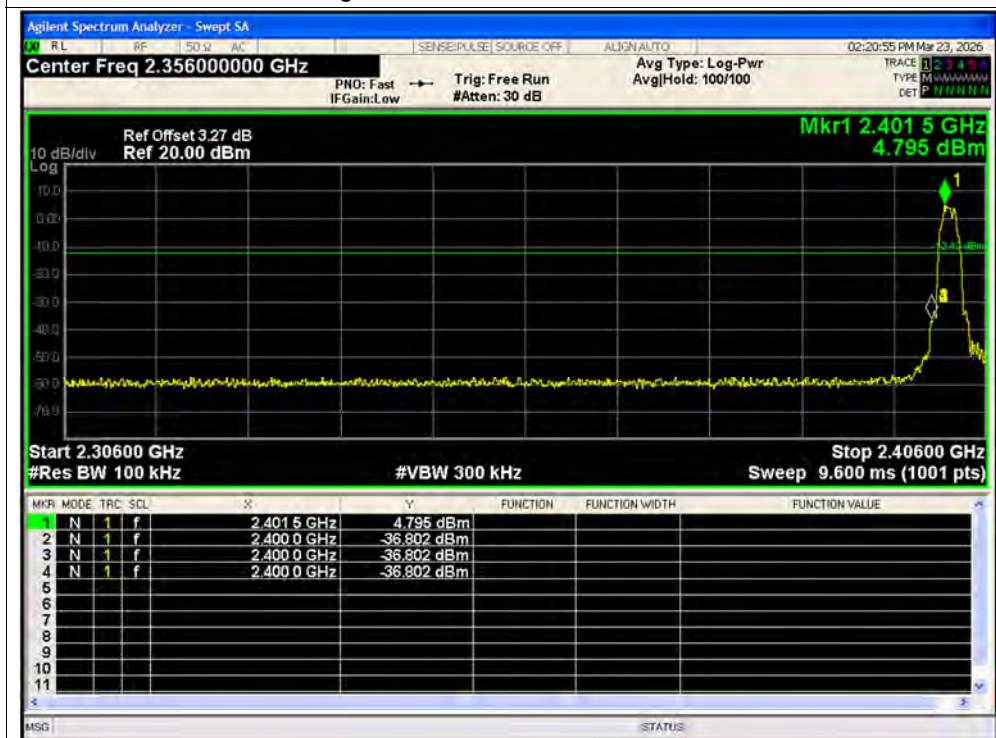
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



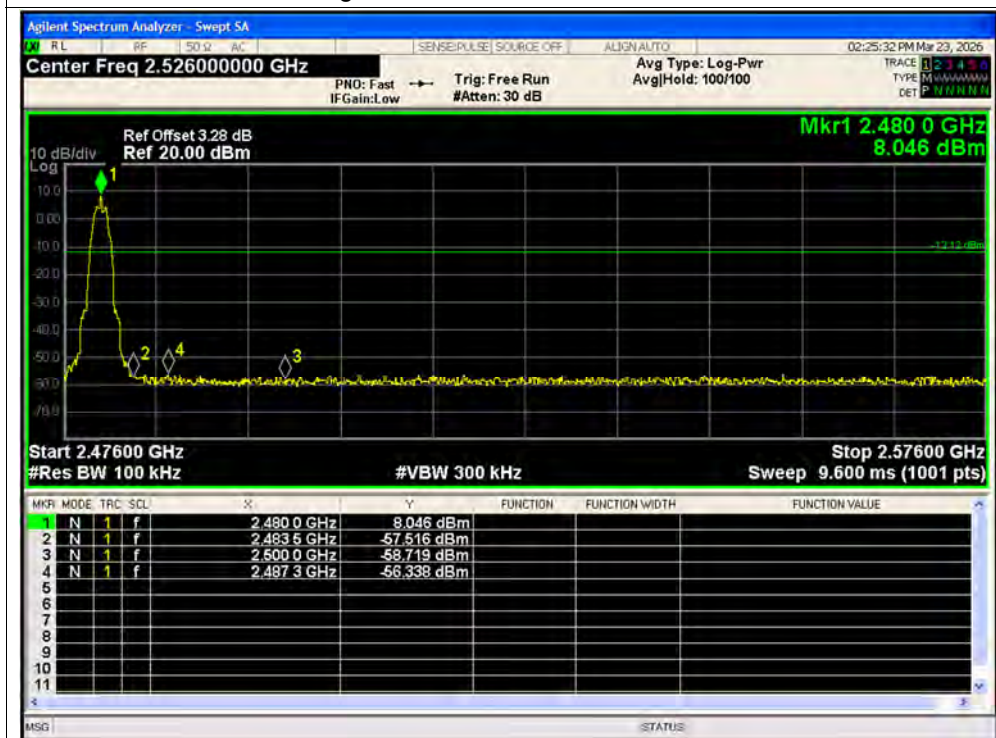
Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



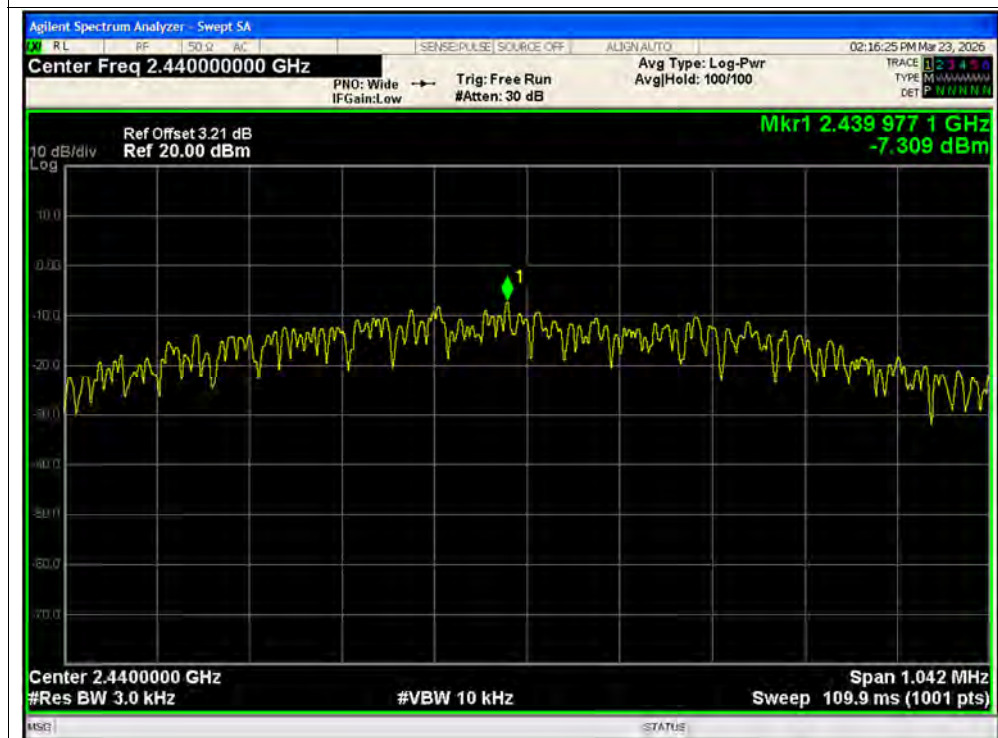
Band Edge NVNT BLE 2M 2480MHz Ant1 Emission

**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	-6.57	0	-6.57	8	Pass
NVNT	BLE 1M	2440	Ant1	-7.31	0	-7.31	8	Pass
NVNT	BLE 1M	2480	Ant1	-6.59	0	-6.59	8	Pass
NVNT	BLE 2M	2402	Ant1	-10.14	0	-10.14	8	Pass
NVNT	BLE 2M	2440	Ant1	-10.87	0	-10.87	8	Pass
NVNT	BLE 2M	2480	Ant1	-10.12	0	-10.12	8	Pass



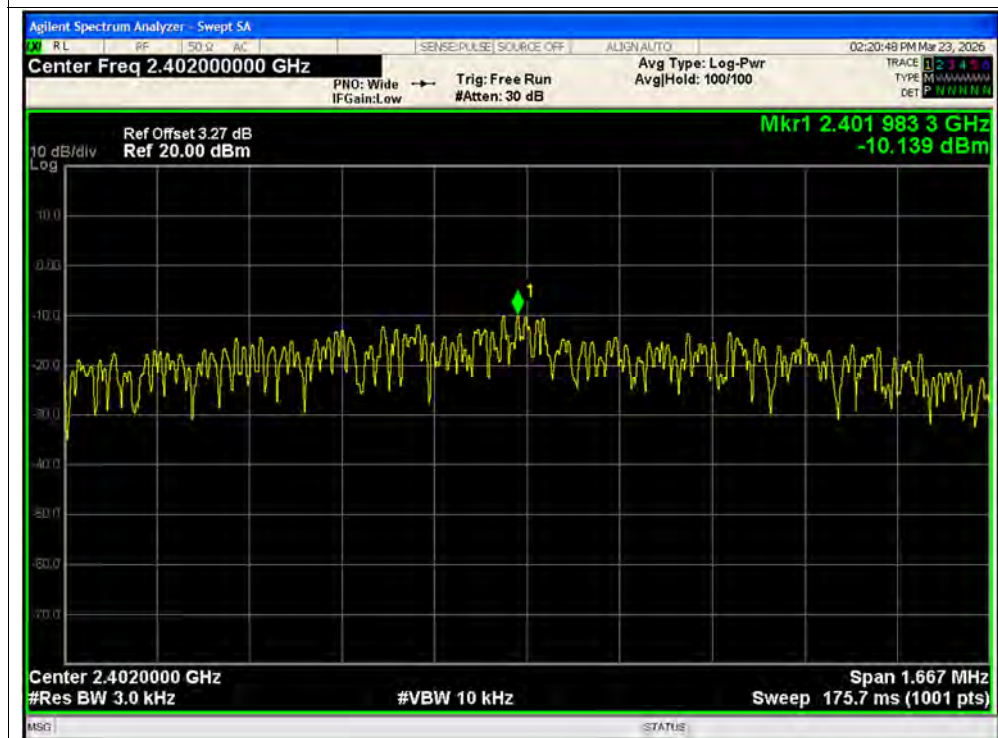
PSD NVNT BLE 1M 2402MHz Ant1



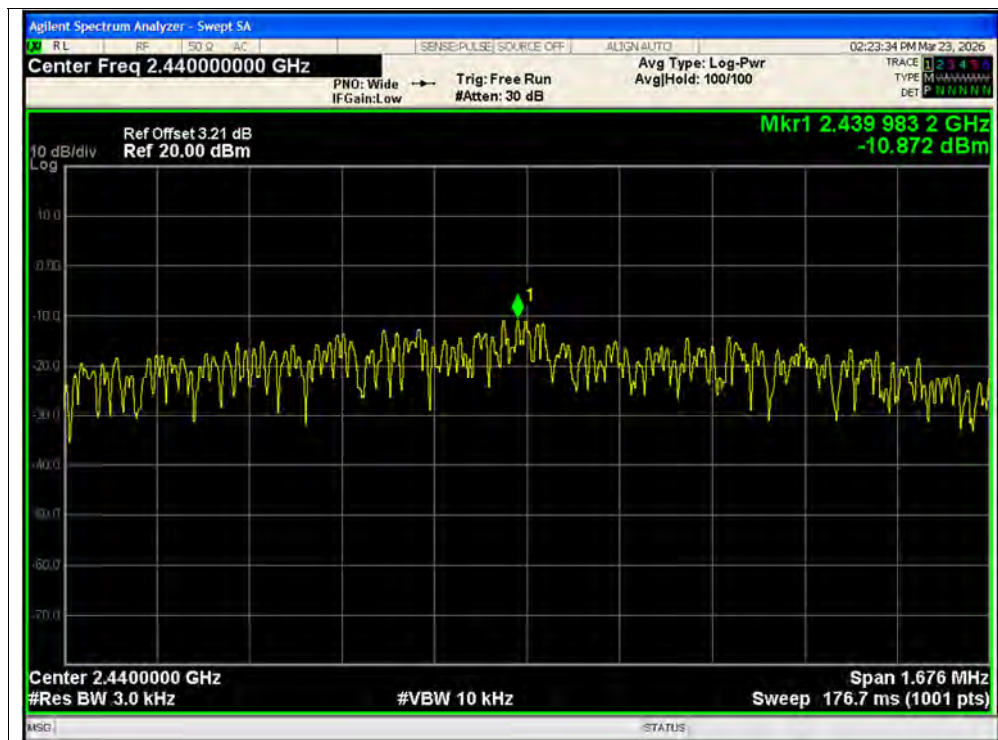
PSD NVNT BLE 1M 2440MHz Ant1



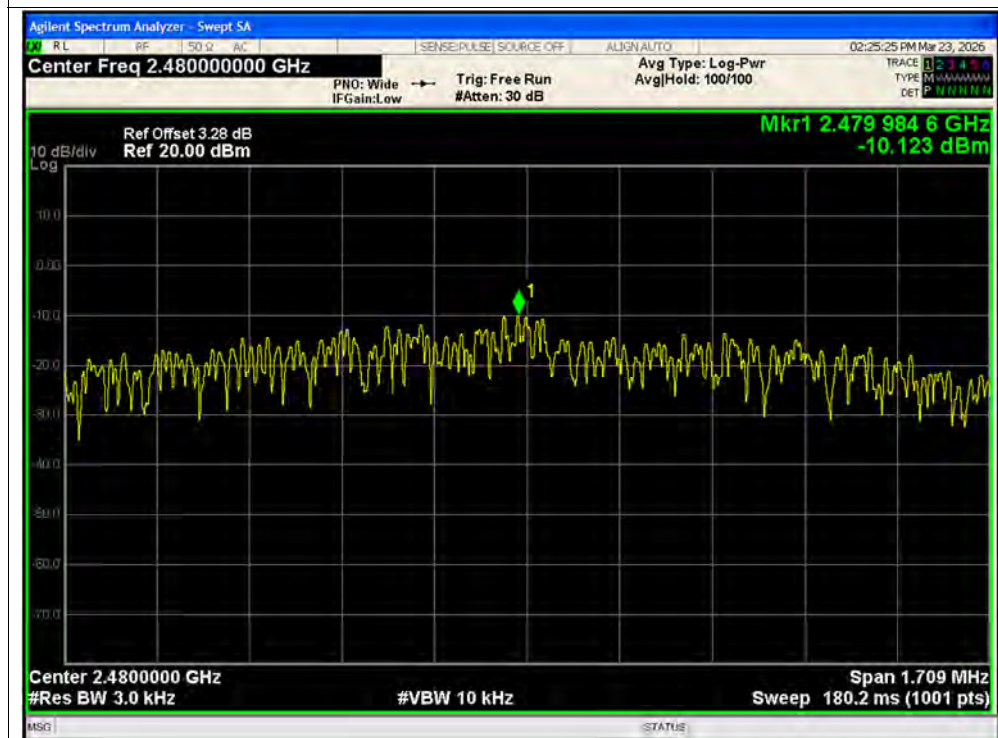
PSD NVNT BLE 1M 2480MHz Ant1



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+USB cable+BLE TX

Test voltage: AC 120V/60Hz

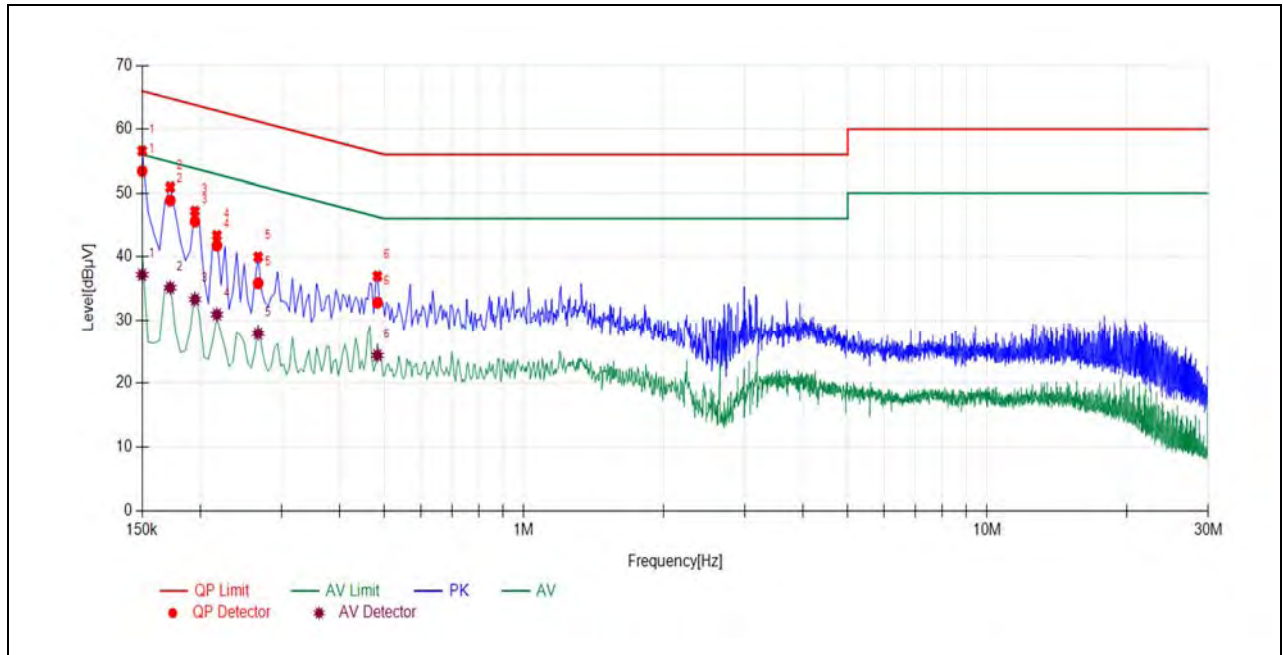
The measurement results are obtained as below:

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

U_R : Receiver Reading

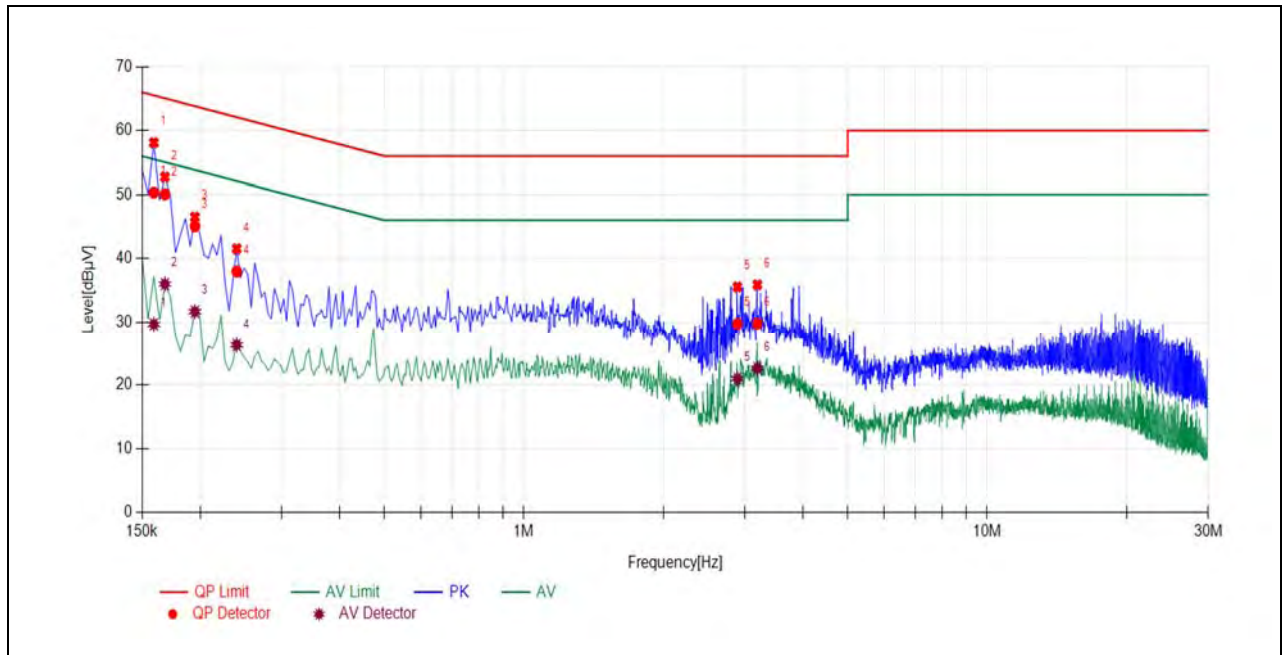
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	53.40	37.17	66.00	56.00	Line	PASS
2	0.1725	48.86	35.14	64.84	54.84		PASS
3	0.1950	45.57	33.28	63.82	53.82		PASS
4	0.2175	41.78	30.90	62.91	52.91		PASS
5	0.2670	35.84	27.83	61.21	51.21		PASS
6	0.4830	32.76	24.35	56.29	46.29		PASS



(N Phase)

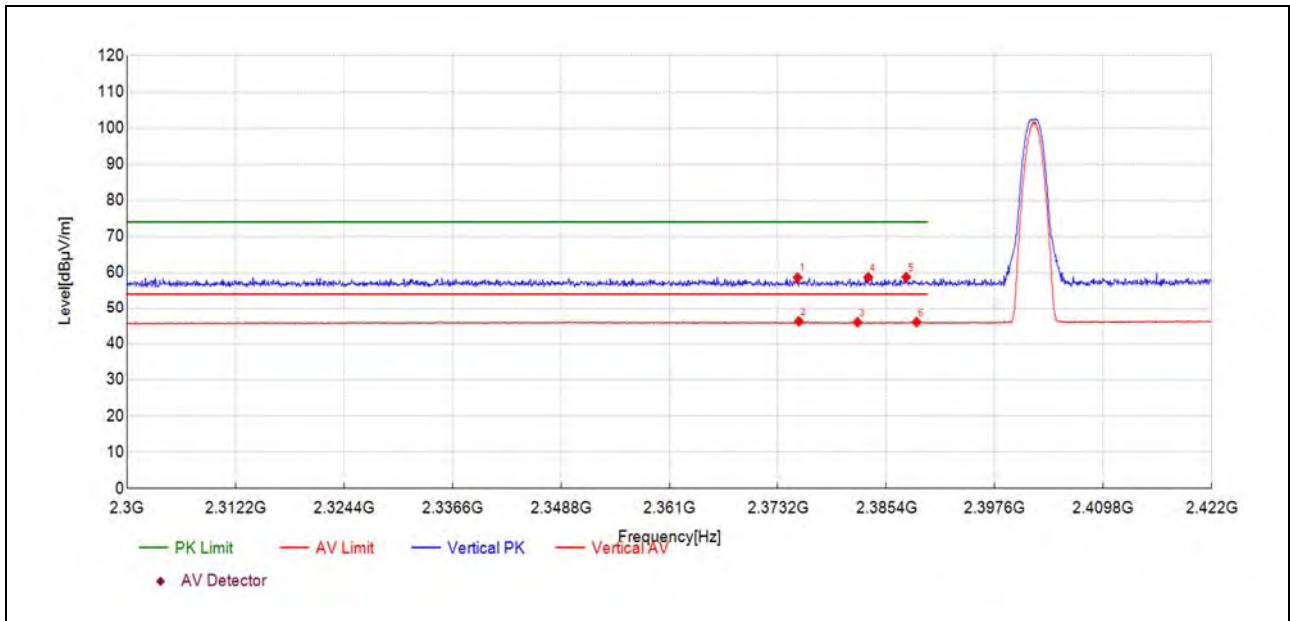
No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1590	50.34	29.66	65.52	55.52	Neutral	PASS
2	0.1680	50.09	36.00	65.06	55.06		PASS
3	0.1950	45.07	31.66	63.82	53.82		PASS
4	0.2400	37.97	26.30	62.10	52.10		PASS
5	2.8903	29.73	20.97	56.00	46.00		PASS
6	3.1921	29.78	22.61	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.

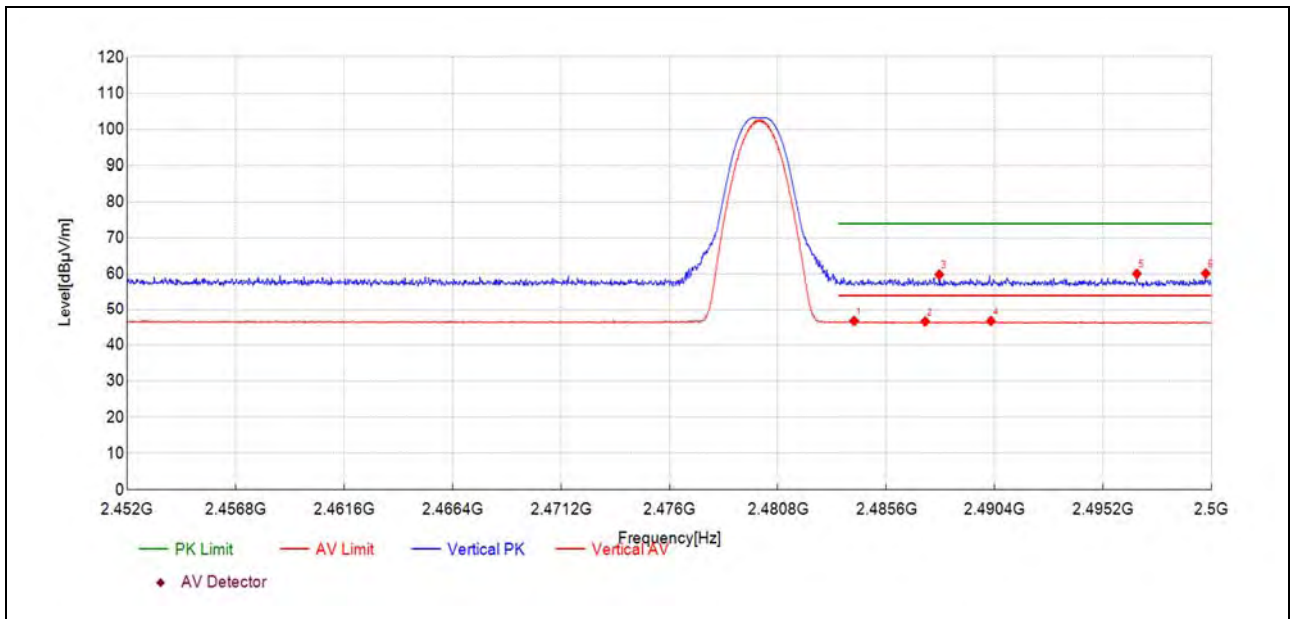
1Mbps

Plot for Channel 0



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2375.43	21.1	58.61	37.480	74.00	15.39	277	PK	Vertical	PASS
2375.56	8.8	46.24	37.480	54.00	7.76	108	AV	Vertical	PASS
2382.15	8.5	45.98	37.480	54.00	8.02	47	AV	Vertical	PASS
2383.37	21.2	58.71	37.490	74.00	15.29	9	PK	Vertical	PASS
2387.64	21.3	58.76	37.490	74.00	15.24	56	PK	Vertical	PASS
2388.80	8.6	46.04	37.490	54.00	7.96	75	AV	Vertical	PASS

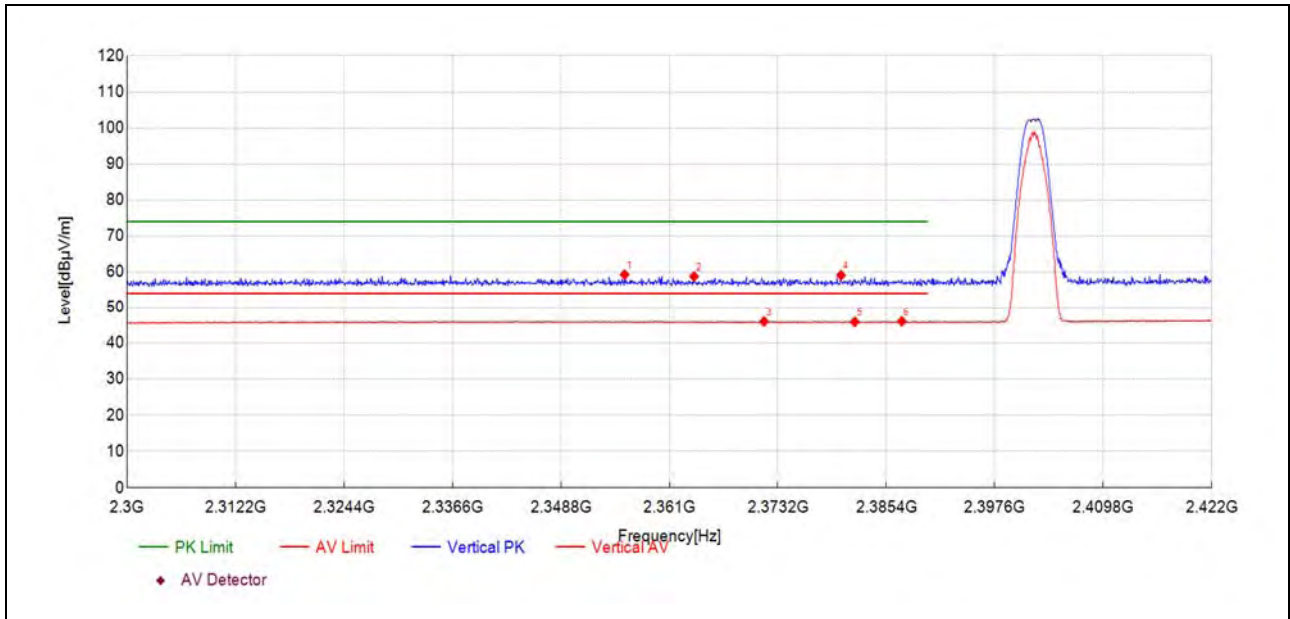
Plot for Channel 39



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2484.18	8.4	46.70	38.270	54.00	7.30	42	AV	Vertical	PASS
2487.32	8.3	46.55	38.270	54.00	7.45	206	AV	Vertical	PASS
2487.95	21.6	59.82	38.270	74.00	14.18	84	PK	Vertical	PASS
2490.23	8.4	46.68	38.270	54.00	7.32	1	AV	Vertical	PASS
2496.69	21.8	60.06	38.250	74.00	13.94	355	PK	Vertical	PASS
2499.74	21.9	60.16	38.250	74.00	13.84	89	PK	Vertical	PASS

**2Mbps**

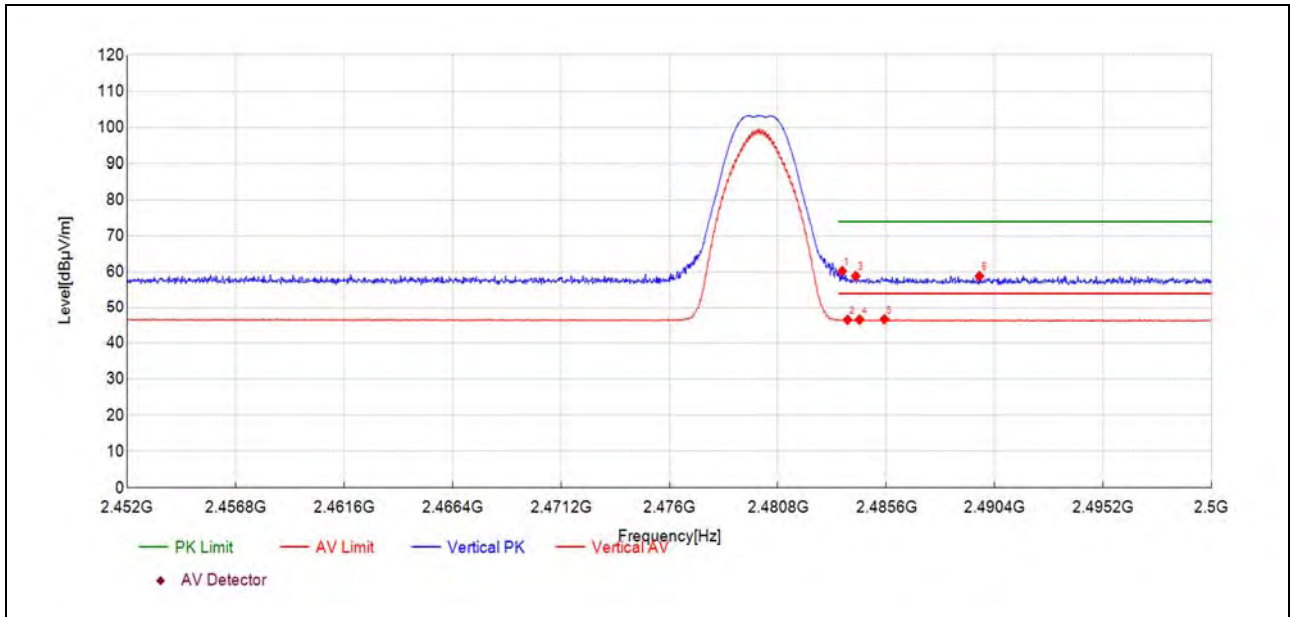
Plot for Channel 0



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2355.96	21.8	59.27	37.460	74.00	14.73	308	PK	Vertical	PASS
2363.78	21.3	58.79	37.470	74.00	15.21	323	PK	Vertical	PASS
2371.65	8.5	45.98	37.470	54.00	8.02	26	AV	Vertical	PASS
2380.32	21.6	59.09	37.480	74.00	14.91	172	PK	Vertical	PASS
2381.84	8.4	45.90	37.480	54.00	8.10	346	AV	Vertical	PASS
2387.15	8.6	46.05	37.490	54.00	7.95	237	AV	Vertical	PASS



Plot for Channel 39



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2483.65	22.0	60.24	38.280	74.00	13.76	173	PK	Vertical	PASS
2483.89	8.2	46.47	38.270	54.00	7.53	84	AV	Vertical	PASS
2484.25	20.6	58.90	38.270	74.00	15.10	159	PK	Vertical	PASS
2484.42	8.3	46.52	38.270	54.00	7.48	211	AV	Vertical	PASS
2485.52	8.3	46.60	38.270	54.00	7.40	168	AV	Vertical	PASS
2489.72	20.6	58.86	38.260	74.00	15.14	272	PK	Vertical	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.

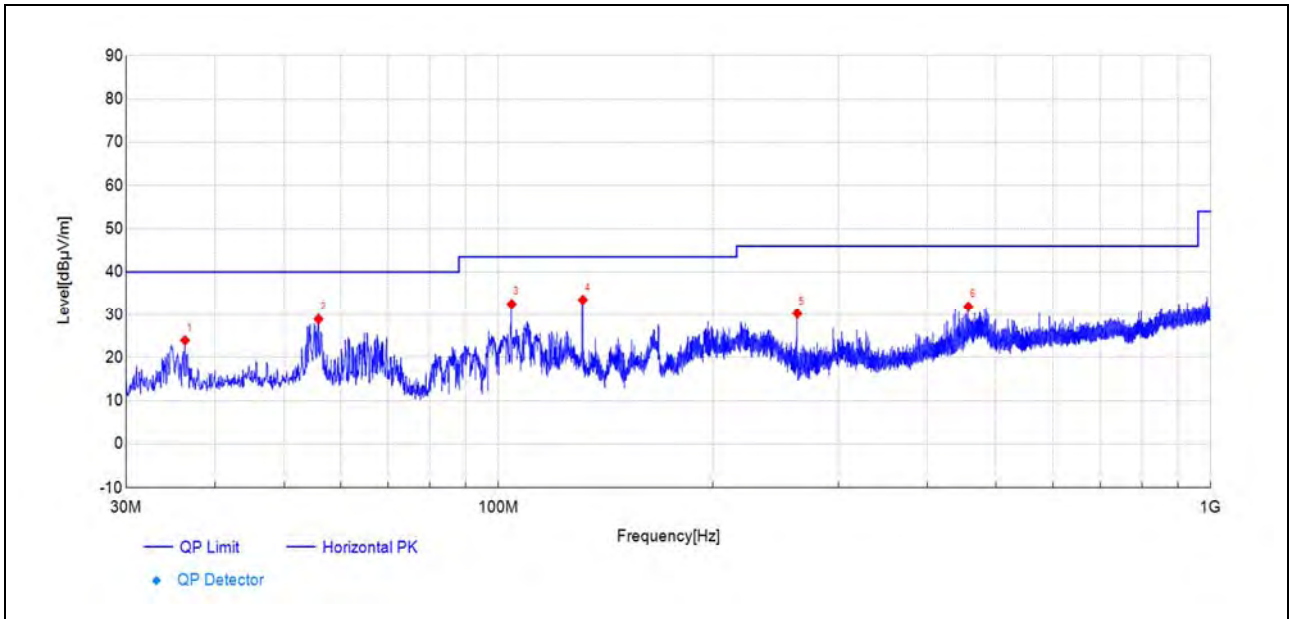
Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes were considered and evaluated respectively by performing full test, only the worst data were recorded.



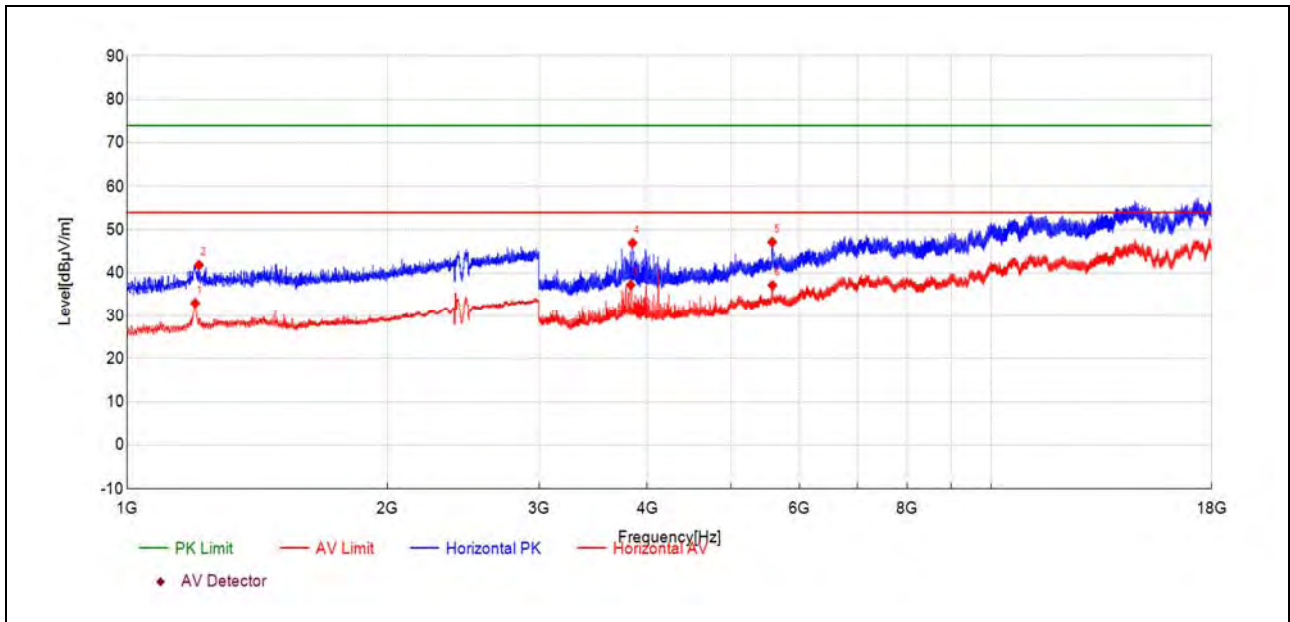
1Mbps

Plot for Channel 0



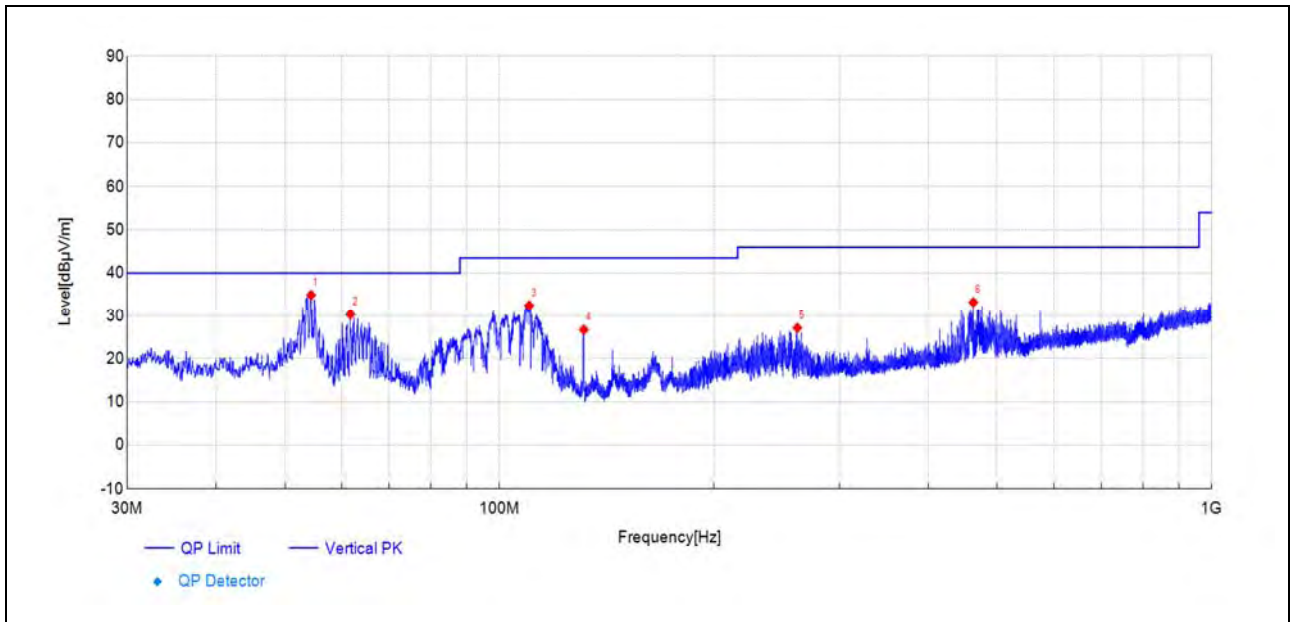
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
36.31	47.6	23.95	-23.620	40.00	16.05	312	PK	Horizontal	PASS
55.90	51.0	28.91	-22.130	40.00	11.09	46	PK	Horizontal	PASS
104.35	56.1	32.53	-23.570	43.50	10.97	181	PK	Horizontal	PASS
131.37	59.5	33.49	-26.040	43.50	10.01	260	PK	Horizontal	PASS
262.71	52.0	30.21	-21.780	46.00	15.79	9	PK	Horizontal	PASS
456.77	47.5	31.89	-15.630	46.00	14.11	77	PK	Horizontal	PASS



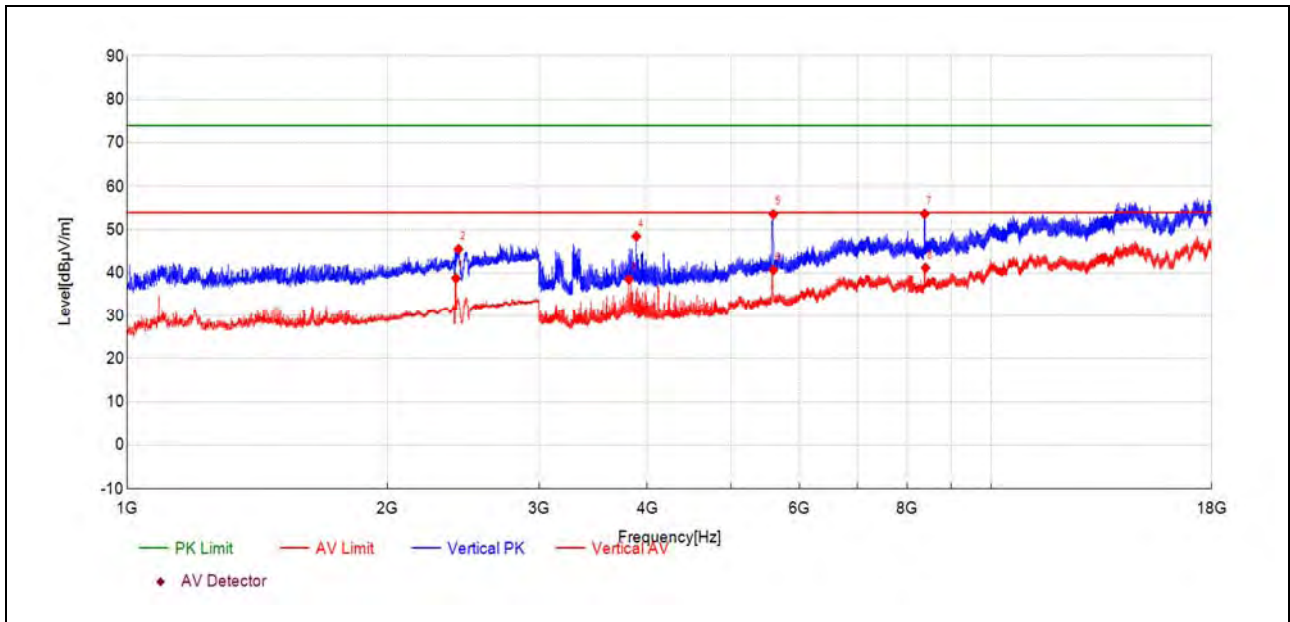
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
1199.24	34.1	32.97	-1.100	54.00	21.03	96	AV	Horizontal	PASS
1211.24	43.0	41.86	-1.160	74.00	32.14	206	PK	Horizontal	PASS
3826.31	45.5	37.22	-8.260	54.00	16.78	82	AV	Horizontal	PASS
3846.02	55.3	46.95	-8.340	74.00	27.05	82	PK	Horizontal	PASS
5579.65	48.9	47.16	-1.770	74.00	26.84	82	PK	Horizontal	PASS
5583.93	38.9	37.17	-1.690	54.00	16.83	95	AV	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

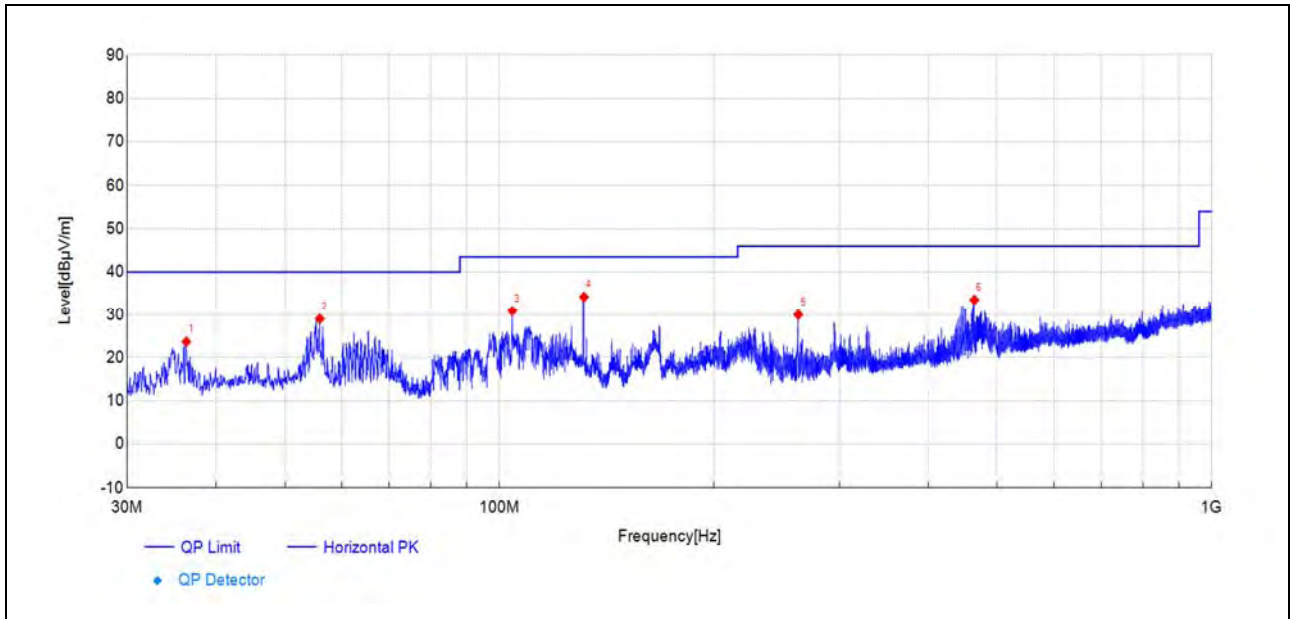
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
54.40	56.6	34.88	-21.750	40.00	5.12	6	PK	Vertical	PASS
61.77	53.0	30.28	-22.710	40.00	9.72	58	PK	Vertical	PASS
110.08	55.3	32.43	-22.830	43.50	11.07	262	PK	Vertical	PASS
131.37	52.7	26.68	-26.040	43.50	16.82	11	PK	Vertical	PASS
261.99	49.0	27.11	-21.860	46.00	18.89	58	PK	Vertical	PASS
462.74	49.0	33.19	-15.830	46.00	12.81	58	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

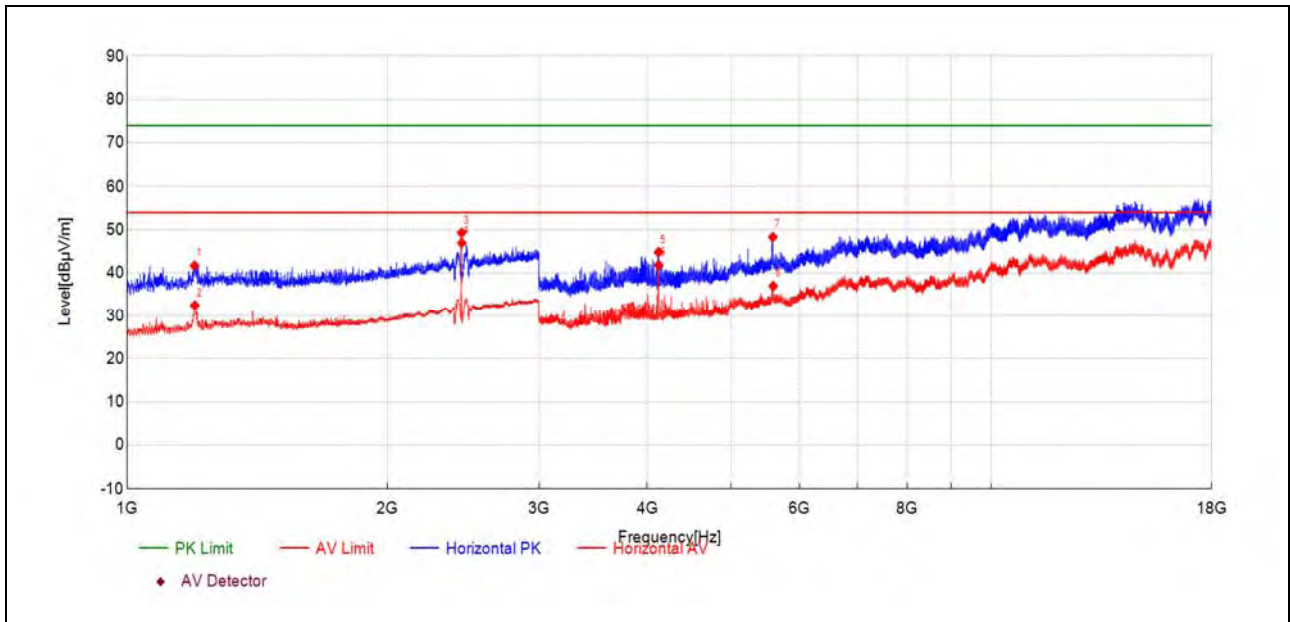
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2402.28	33.5	38.78	5.250	-	-	154	AV	Vertical	NA
2418.68	40.1	45.56	5.500	74.00	28.44	37	PK	Vertical	PASS
3810.02	46.7	38.52	-8.180	54.00	15.48	55	AV	Vertical	PASS
3885.45	56.9	48.49	-8.360	74.00	25.51	55	PK	Vertical	PASS
5597.22	55.1	53.61	-1.440	74.00	20.39	82	PK	Vertical	PASS
5597.65	42.1	40.69	-1.430	54.00	13.31	82	AV	Vertical	PASS
8377.01	48.8	53.70	4.900	74.00	20.30	109	PK	Vertical	PASS
8396.30	36.2	41.21	5.030	54.00	12.79	109	AV	Vertical	PASS

Plot for Channel 19



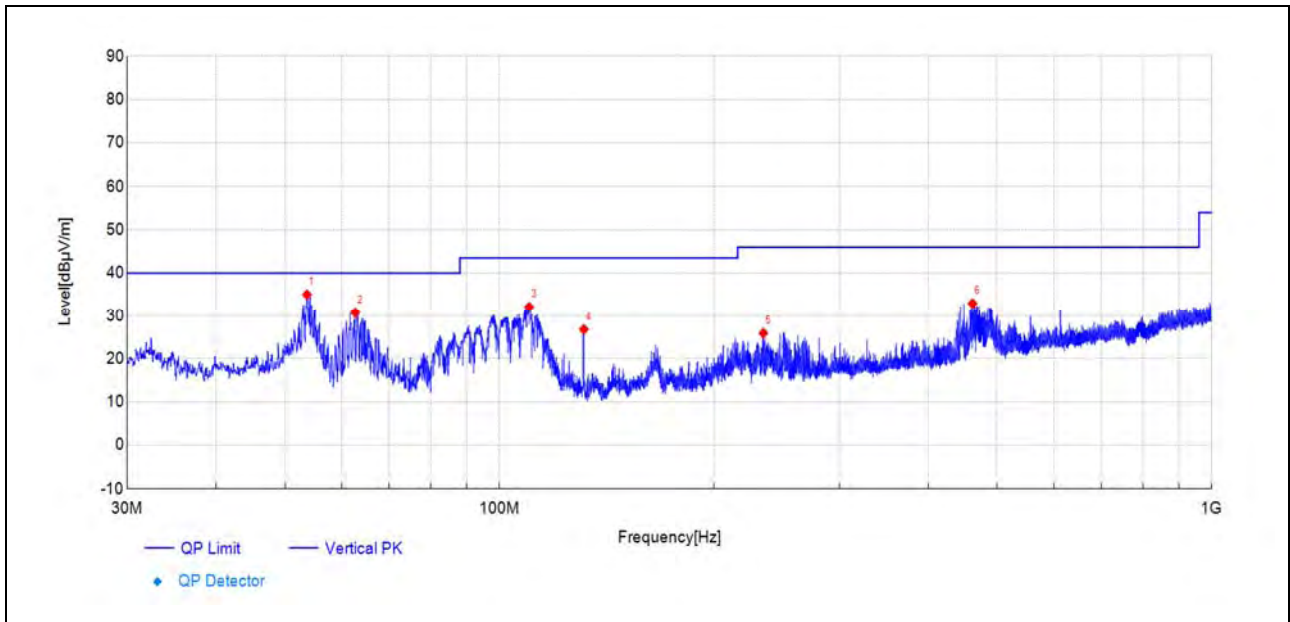
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
36.35	47.3	23.66	-23.600	40.00	16.34	310	PK	Horizontal	PASS
55.95	51.2	29.02	-22.140	40.00	10.98	25	PK	Horizontal	PASS
104.26	54.5	30.86	-23.620	43.50	12.64	9	PK	Horizontal	PASS
131.42	60.2	34.18	-26.060	43.50	9.32	67	PK	Horizontal	PASS
262.76	51.7	29.97	-21.770	46.00	16.03	9	PK	Horizontal	PASS
464.24	49.5	33.49	-16.040	46.00	12.51	15	PK	Horizontal	PASS



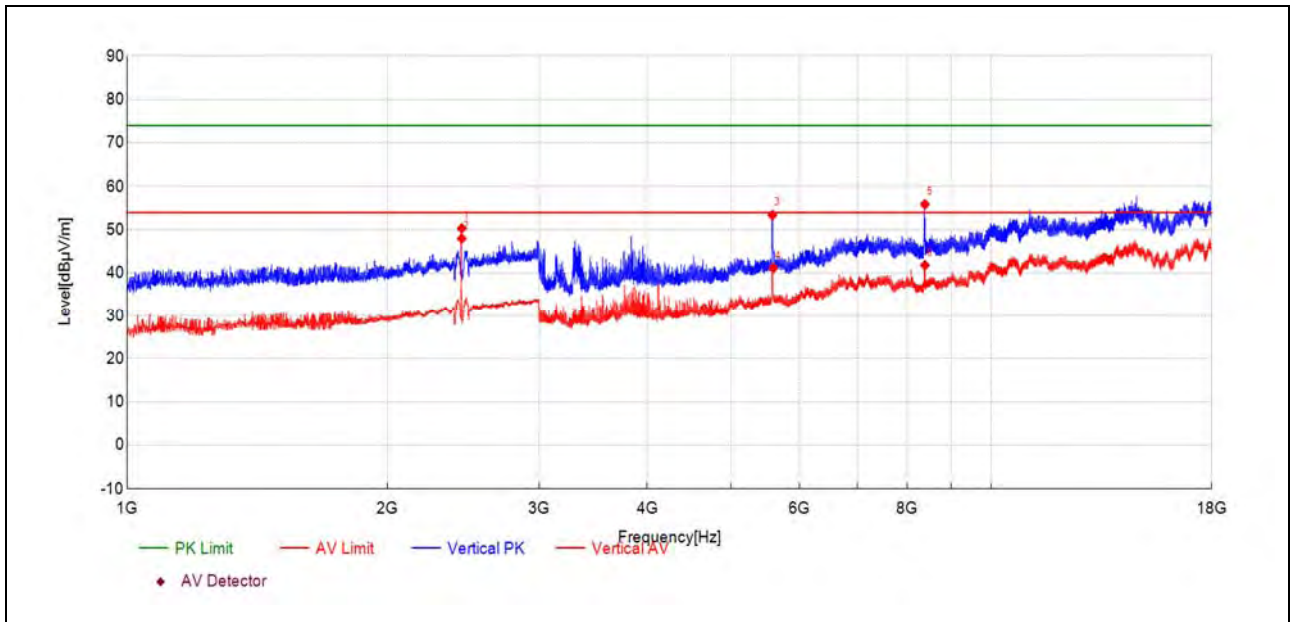
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
1197.24	42.9	41.71	-1.140	74.00	32.29	95	PK	Horizontal	PASS
1198.04	33.6	32.45	-1.120	54.00	21.55	95	AV	Horizontal	PASS
2439.89	43.5	49.32	5.820	-	-	269	PK	Horizontal	NA
2440.29	41.2	46.97	5.820	-	-	269	AV	Horizontal	NA
4122.89	53.0	44.85	-8.140	74.00	29.15	186	PK	Horizontal	PASS
4123.32	50.0	41.84	-8.140	54.00	12.16	170	AV	Horizontal	PASS
5589.93	49.9	48.34	-1.580	74.00	25.66	104	PK	Horizontal	PASS
5595.07	38.5	36.98	-1.480	54.00	17.02	89	AV	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

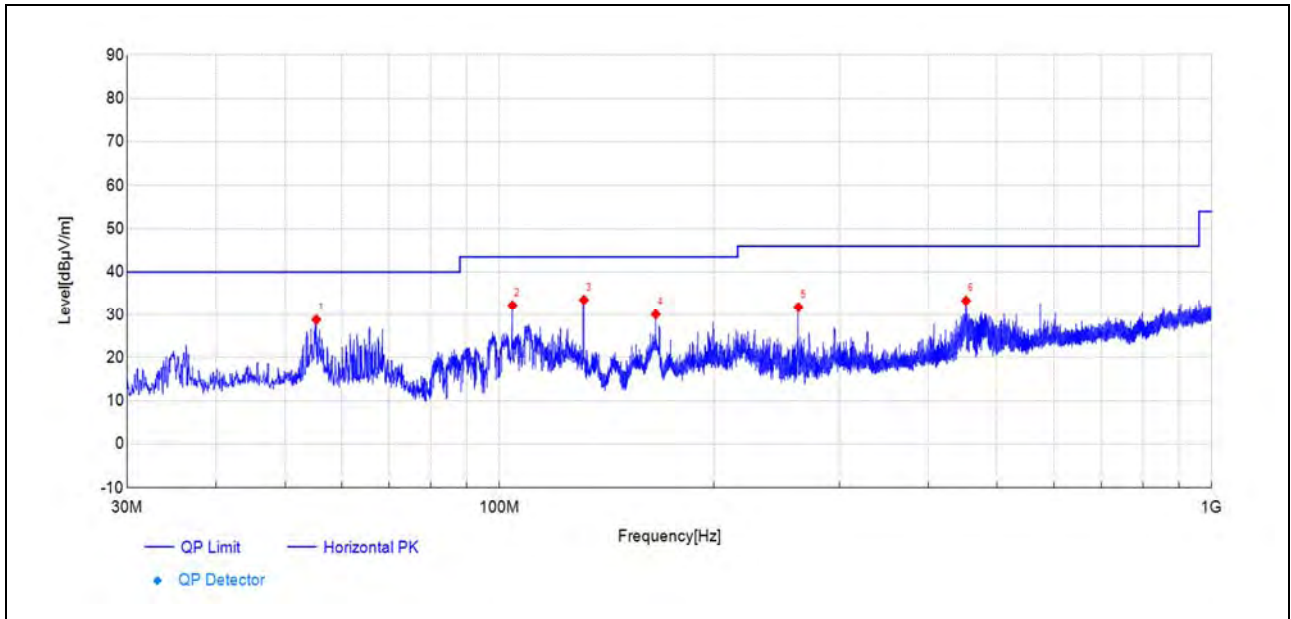
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
53.67	56.7	34.98	-21.740	40.00	5.02	310	PK	Vertical	PASS
62.74	53.7	30.73	-23.000	40.00	9.27	102	PK	Vertical	PASS
110.08	54.9	32.09	-22.830	43.50	11.41	351	PK	Vertical	PASS
131.37	52.8	26.79	-26.040	43.50	16.71	14	PK	Vertical	PASS
234.73	47.9	25.90	-22.000	46.00	20.10	252	PK	Vertical	PASS
461.53	48.6	32.90	-15.650	46.00	13.10	81	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

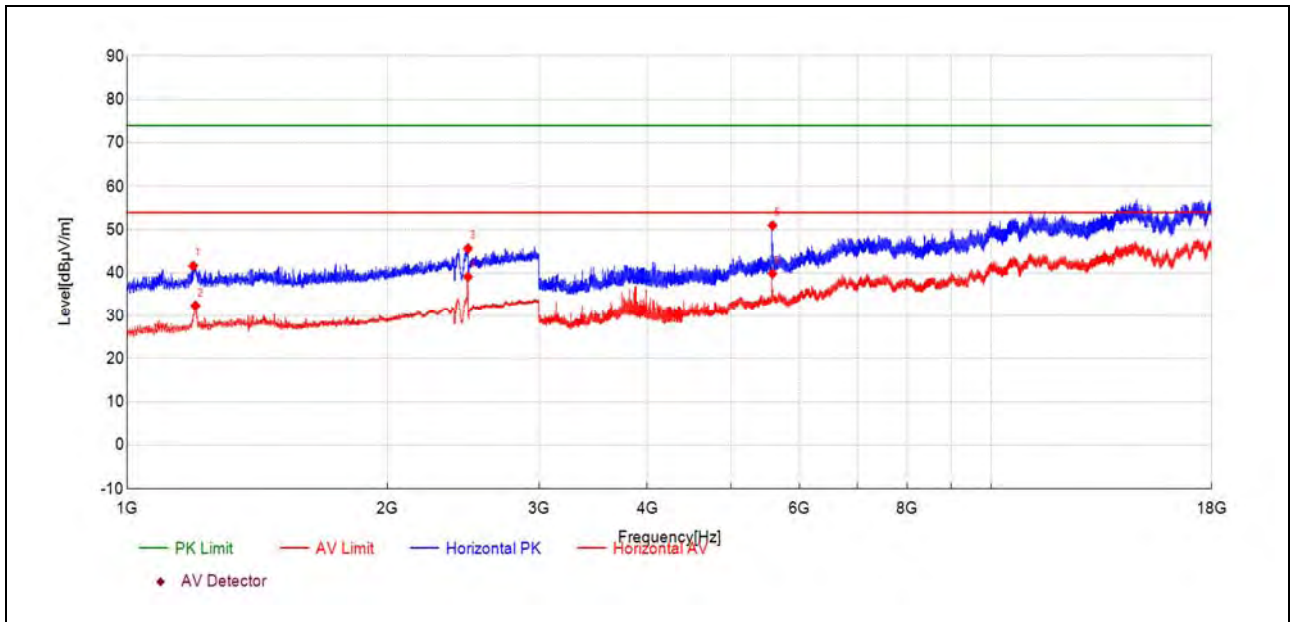
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2439.89	44.5	50.34	5.820	-	-	264	PK	Vertical	NA
2440.29	42.2	47.99	5.820	-	-	258	AV	Vertical	NA
5582.65	55.1	53.41	-1.710	74.00	20.59	90	PK	Vertical	PASS
5598.93	42.6	41.17	-1.410	54.00	12.83	49	AV	Vertical	PASS
8382.58	51.0	55.91	4.940	74.00	18.09	118	PK	Vertical	PASS
8383.01	36.9	41.81	4.940	54.00	12.19	118	AV	Vertical	PASS

Plot for Channel 39



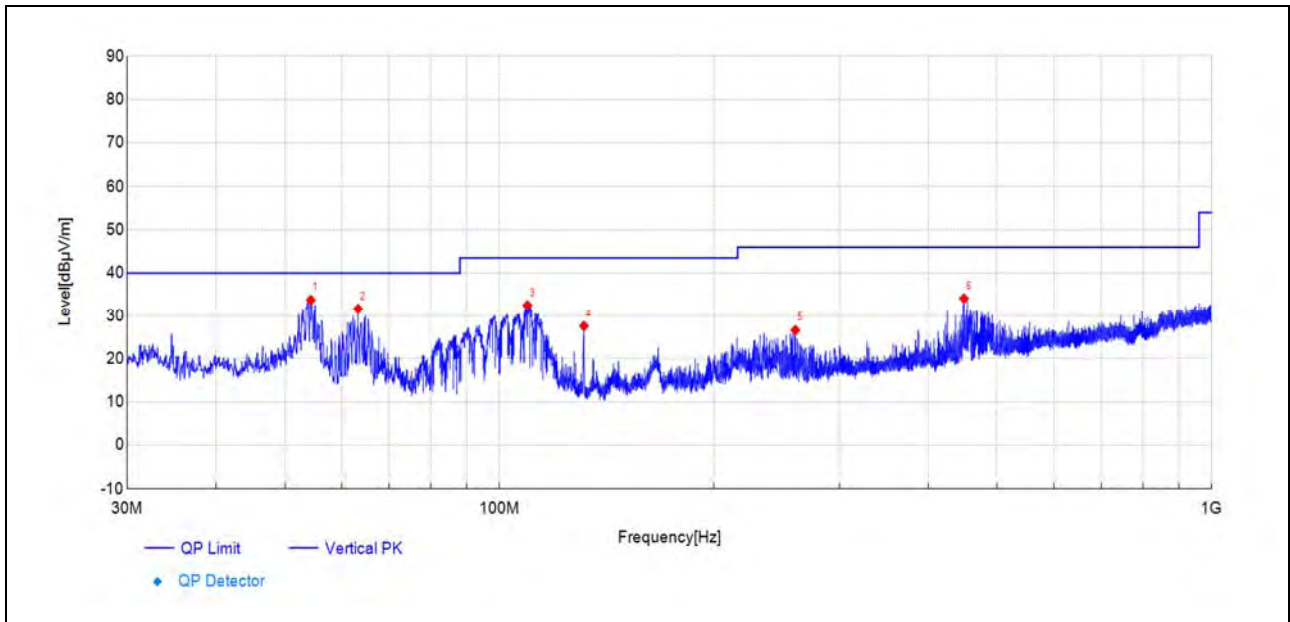
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
55.32	50.8	28.81	-21.970	40.00	11.19	233	PK	Horizontal	PASS
104.31	55.8	32.20	-23.600	43.50	11.30	254	PK	Horizontal	PASS
131.42	59.5	33.48	-26.060	43.50	10.02	254	PK	Horizontal	PASS
165.76	55.7	30.05	-25.640	43.50	13.45	144	PK	Horizontal	PASS
262.86	53.5	31.75	-21.760	46.00	14.25	20	PK	Horizontal	PASS
451.83	49.0	33.30	-15.660	46.00	12.70	83	PK	Horizontal	PASS



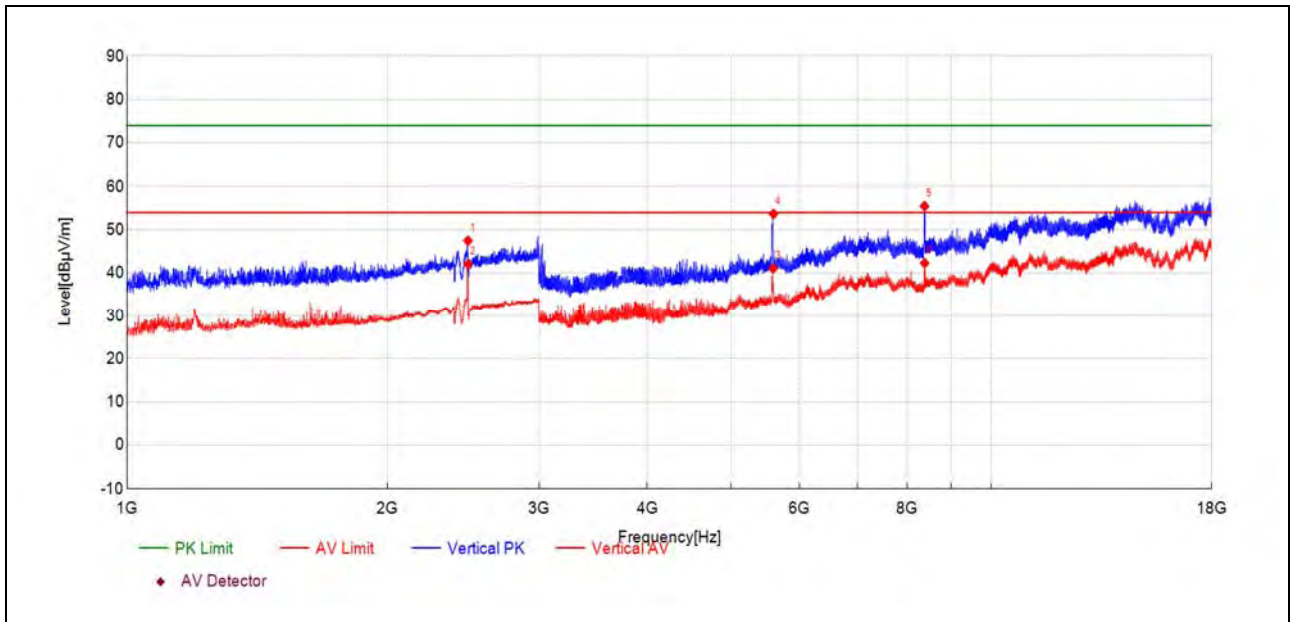
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
1192.84	42.9	41.66	-1.220	74.00	32.34	149	PK	Horizontal	PASS
1200.04	33.5	32.42	-1.090	54.00	21.58	105	AV	Horizontal	PASS
2480.70	39.8	45.68	5.890	-	-	280	PK	Horizontal	NA
2480.70	33.2	39.13	5.890	-	-	263	AV	Horizontal	NA
5584.36	52.7	51.02	-1.680	74.00	22.98	104	PK	Horizontal	PASS
5584.79	41.6	39.89	-1.670	54.00	14.11	104	AV	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
54.35	55.5	33.73	-21.740	40.00	6.27	324	PK	Vertical	PASS
63.32	54.8	31.59	-23.190	40.00	8.41	79	PK	Vertical	PASS
109.50	55.2	32.46	-22.780	43.50	11.04	277	PK	Vertical	PASS
131.42	53.6	27.58	-26.060	43.50	15.92	0	PK	Vertical	PASS
260.29	48.7	26.61	-22.060	46.00	19.39	69	PK	Vertical	PASS
448.92	49.7	34.07	-15.650	46.00	11.93	79	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2480.30	41.6	47.50	5.890	-	-	152	PK	Vertical	NA
2480.30	36.2	42.06	5.890	-	-	152	AV	Vertical	NA
5595.93	42.5	41.08	-1.460	54.00	12.92	64	AV	Vertical	PASS
5600.22	55.1	53.69	-1.390	74.00	20.31	103	PK	Vertical	PASS
8374.44	50.6	55.50	4.890	74.00	18.50	128	PK	Vertical	PASS
8377.01	37.4	42.29	4.900	54.00	11.71	116	AV	Vertical	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 —————