



REPORT No.: SZ25040455W01

TEST REPORT

APPLICANT : Shanghai SenseRobot
Intelligent Technology Co., Ltd.

PRODUCT NAME : SenseRobot Chess Lite

MODEL NAME : RM4G-D, RM4G-N, RM4G-E,
RM4G-S, RM4G-A, RM4W-D,
RM4W-N, RM4W-E, RM4W-S,
RM4W-A

BRAND NAME : SenseRobot

FCC ID : 2BLUE-RM4G-D

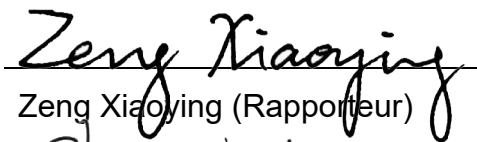
STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2025-05-12

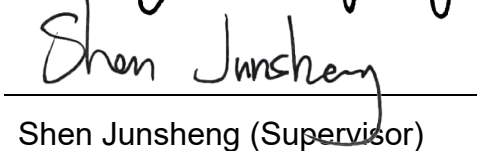
TEST DATE : 2025-06-06 to 2025-08-07

ISSUE DATE : 2025-08-08

Edited by:


Zeng Xiaoying (Rapporteur)

Approved by:


Shen Junsheng (Supervisor)

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MORLAB

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

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





DIRECTORY

1. Summary of Test Result	4
1.1. Testing Applied Standards	5
1.2. Test Equipment List	6
1.3. Measurement Uncertainty	8
1.4. Testing Laboratory	8
2. General Description	9
2.1. Information of Applicant and Manufacturer	9
2.2. Information of EUT	9
2.3. Channel List of EUT	10
2.4. Test Configuration of EUT	11
2.5. Test Conditions	11
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 and Average Conducted Output Power	17
3.4. 6 dB Bandwidth	18
3.5. Conducted Spurious Emissions and Band Edge	19
3.6. Power Spectral Density	20
3.7. Conducted Emission	21
3.8. Restricted Frequency Bands	22
3.9. Radiated Emission	23
Annex A Test Data and Result	25



REPORT No.: SZ25040455W01

Change History		
Version	Date	Reason for change
1.0	2025-08-08	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	Jun. 06, 2025 Aug. 07, 2025	Li Xinpeng	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Jun. 06, 2025 Aug. 07, 2025	Li Xinpeng	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Jun. 06, 2025 Aug. 07, 2025	Li Xinpeng	PASS	/
5	15.247(a)	Bandwidth	Jun. 06, 2025 Aug. 07, 2025	Li Xinpeng	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Jun. 12, 2025 Aug. 07, 2025	Li Xinpeng	PASS	/
7	15.247(e)	Power Spectral Density	Jun. 12, 2025 Aug. 07, 2025	Li Xinpeng	PASS	/
8	15.207	Conducted Emission	Jun. 20, 2025	Fan Shengquan	PASS	/
9	15.247(d)	Restricted Frequency Bands	Jun. 25, 2025	Zhang Liyun	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Jun. 25, 2025	Zhang Liyun	PASS	/

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: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".



1.1. Testing Applied Standards

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

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2025.01.15	2026.01.14
Power Sensor	MY54180008	U2021XA	Agilent	2024.09.11	2025.09.10
Attenuator	MTJ6004-20	VAT-10+	MTJ Cooperation	N/A	N/A
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.2.2 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	101052	ESPI	R&S	2025.05.15	2026.05.14
LISN	103131	ENV 216	R&S	2025.03.20	2026.03.19
RF Coaxial Cable (DC-100MHz)	EMC-CE-00514	N/A	N/A	2025.05.06	2026.05.05

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	01267	VULB 9163	Schwarzbeck	2024.07.26	2025.07.25
				2025.07.16	2026.07.15
Test Antenna - Loop	00131	FMZB1519B	Schwarzbeck	2024.09.19	2025.09.18
Test Antenna – Horn	02634	BBHA 9120D	Schwarzbeck	2024.06.29	2025.06.28
				2025.06.29	2026.06.28
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2025.05.13	2026.05.12
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.09.11	2025.09.10
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.04.19	2028.04.18
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29



1.3. Measurement Uncertainty

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

1.4. Testing Laboratory

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

2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	Shanghai SenseRobot Intelligent Technology Co., Ltd.
Applicant Address:	Unit 6-77, 6th Floor, No. 1900 Hongmei Road, Xuhui District, Shanghai, China
Manufacturer:	Shanghai SenseRobot Intelligent Technology Co., Ltd.
Manufacturer Address:	Unit 6-77, 6th Floor, No. 1900 Hongmei Road, Xuhui District, Shanghai, China

2.2. Information of EUT

Product Name:	SenseRobot Chess Lite	
Sample No.:	1#, 2#, 3#	
Hardware Version:	V1	
Software Version:	V1.0.6 R3	
Modulation Technology:	DSSS, OFDM	
Modulation Type:	Refer to section 2.4	
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)	
Operating Frequency Range:	2412MHz-2472MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	4.86dBi	
Accessory Information:	AC Adapter	
	Brand Name:	N/A
	Model No.:	KA3601A-1203000DE
	Serial No.:	N/A
	Rated Output:	11.4-12.6V=3A
	Rated Input:	100-240V~50/60Hz, <1A
	Manufacturer:	Shenzhen Keyu Power Supply Technology Co.,Ltd.

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

Note 2: According to the certificate holder, they declared that the models RM4G-D, RM4G-N, RM4G-E, RM4G-S, RM4G-A, RM4W-D, RM4W-N, RM4W-E, RM4W-S, RM4W-A, are the same



products. These ten models only different in model name and color. Their electrical circuit design, layout, components used and internal wiring are identical. The main measuring model is RM4G-D, only the results for RM4G-D were recorded in this report.

2.3.Channel List of EUT

Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		
Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
40MHz	3	2422	8	2447
	4	2427	9	2452
	5	2432	10	2457
	6	2437	11	2462
	7	2442		

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

2.4. Test Configuration of EUT

2.4.1. Modulation Type and Data Rate of EUT

Mode	Bandwidth (MHz)	Modulation Technology	Modulation Type	Data Rate
802.11b	20	DSSS	DBPSK	1/2/5.5/11Mbps
			DQPSK	
			CCK	
802.11g	20	OFDM	BPSK	6/9/12/18/24/36/48/54Mbps
			QPSK	
			16QAM	
			64QAM	
802.11n	20/40 (HT20/40)	OFDM	BPSK	MCS0~MCS7
			QPSK	
			16QAM	
			64QAM	

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

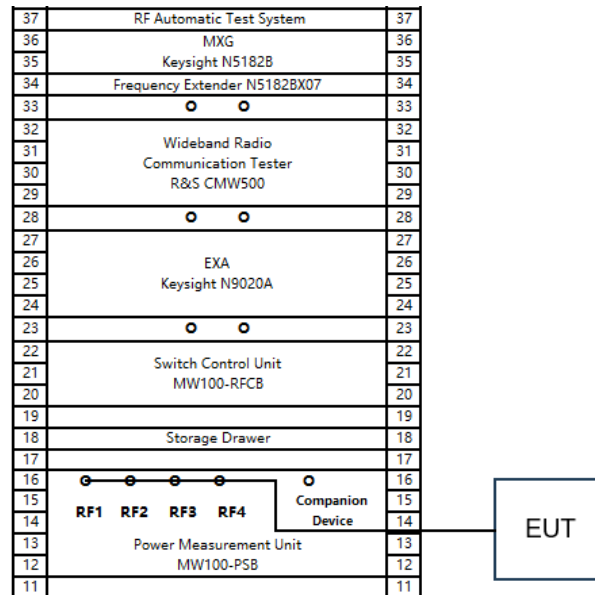
Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

2.5. Test Conditions

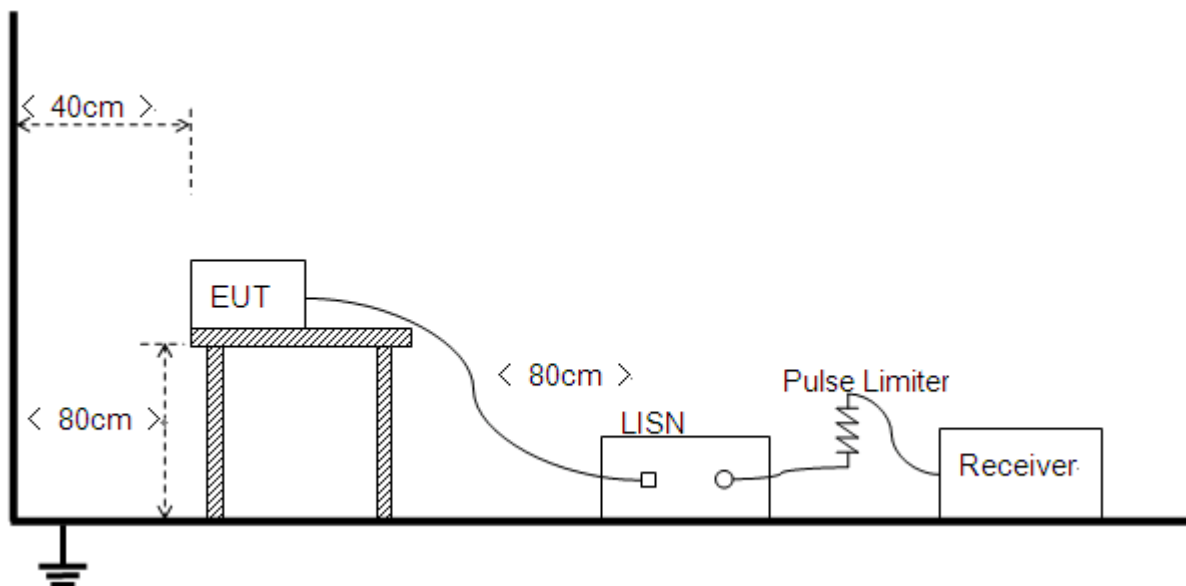
Temperature (°C):	15–35
Relative Humidity (%):	30–60
Atmospheric Pressure (kPa):	86–106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement



2.6.2. Conducted Emission Measurement

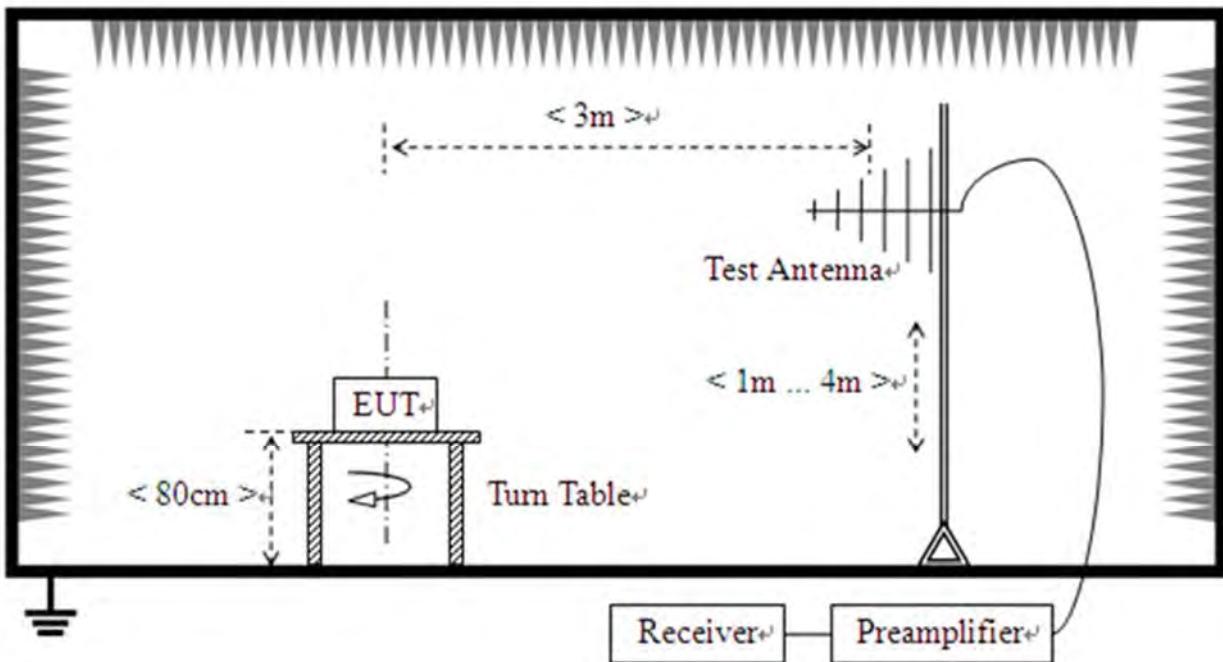


2.6.3.Radiation Measurement

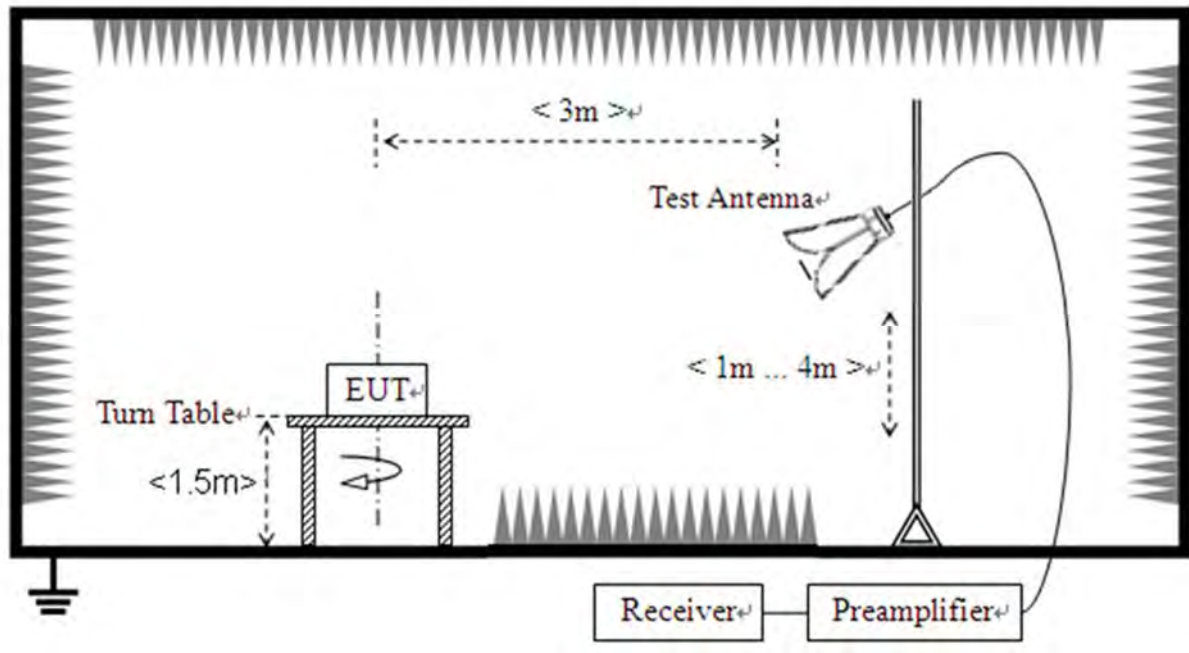
1) For radiated emissions from 9kHz to 30MHz



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 ☐ On-board 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 and Average 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 conducted output power of the intentional radiator shall not exceed 1 Watt.

3.3.2. Test Procedures

The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

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 and A.3 in this report.



3.4.6 dB Bandwidth

3.4.1.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.

3.4.1.Test Procedures

KDB 558074 Section 8.2 was used in order to prove compliance.

3.4.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.3.Test Result

Refer to Annex A.4 in this report.



3.5. Conducted Spurious Emissions and Band Edge

3.5.1. 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.

3.5.2. Test Procedures

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

3.5.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.4. Test Result

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



3.6. Power Spectral Density

3.6.1. 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.

3.6.2. 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 30kHz
- d) Set VBW to 100kHz
- 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 and recorded as PD
- j) Use below formula to calculate the Conducted PSD value that at specified RBW:

Conducted PSD = PD - 10lg(30k/3k)

3.6.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.6.4. Test Result

Refer to Annex A.7 in this report.

3.7. Conducted Emission

3.7.1. 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.

3.7.2. 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.

3.7.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.7.4. Test Result

Refer to Annex A.8 in this report.

3.8. Restricted Frequency Bands

3.8.1. 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).

3.8.2. 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

3.8.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.8.4. Test Result

Refer to Annex A.9 in this report.

3.9. Radiated Emission

3.9.1. 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).



3.9.2. 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 3 meters. 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.

3.9.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4. Test Result

Refer to Annex A.10 in this report.



Annex A Test Data and Result

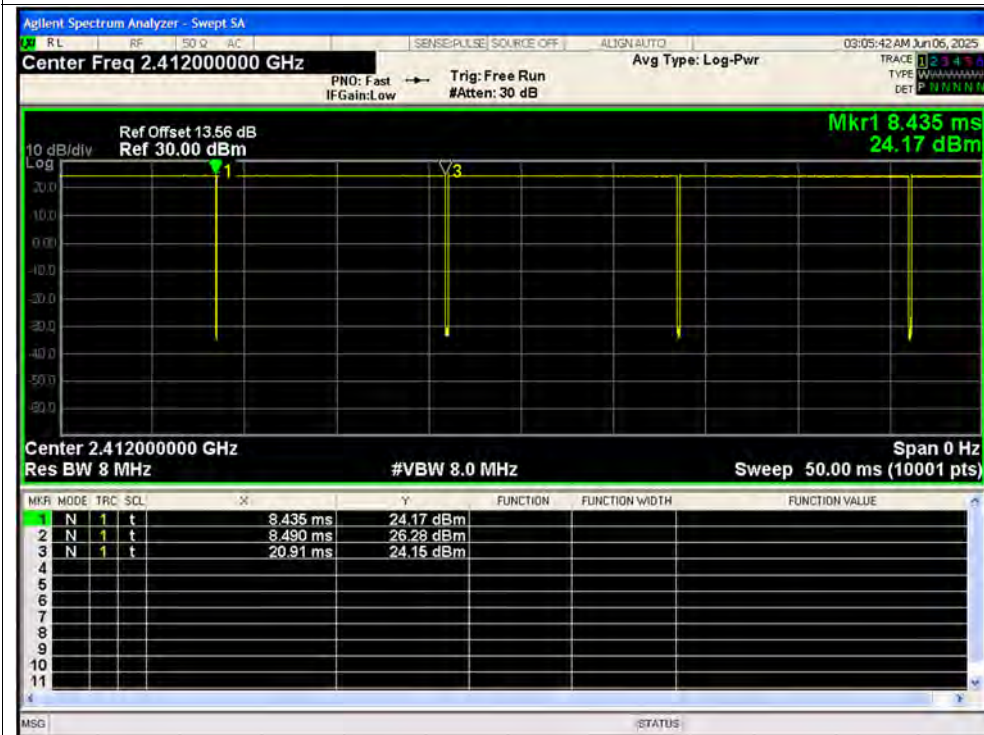
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.56	0.02	0.08
NVNT	b	2442	Ant1	99.36	0.03	0.08
NVNT	b	2472	Ant1	99.72	0.01	0.08
NVNT	g	2412	Ant1	95.83	0.19	0.48
NVNT	g	2442	Ant1	97.45	0.11	0.48
NVNT	g	2472	Ant1	94.69	0.24	0.48
NVNT	n20	2412	Ant1	93.48	0.29	0.52
NVNT	n20	2442	Ant1	95.15	0.22	0.52
NVNT	n20	2472	Ant1	93.85	0.28	0.52
NVNT	n40	2422	Ant1	87.62	0.57	1.05
NVNT	n40	2442	Ant1	90.61	0.43	1.06
NVNT	n40	2462	Ant1	85.38	0.69	1.06

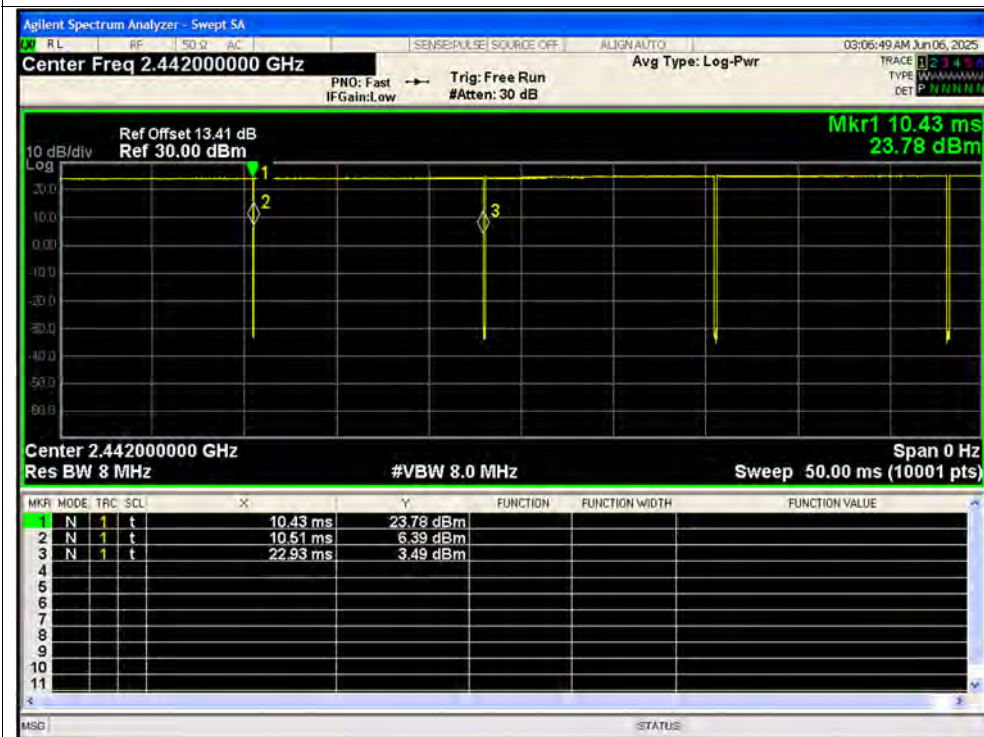


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

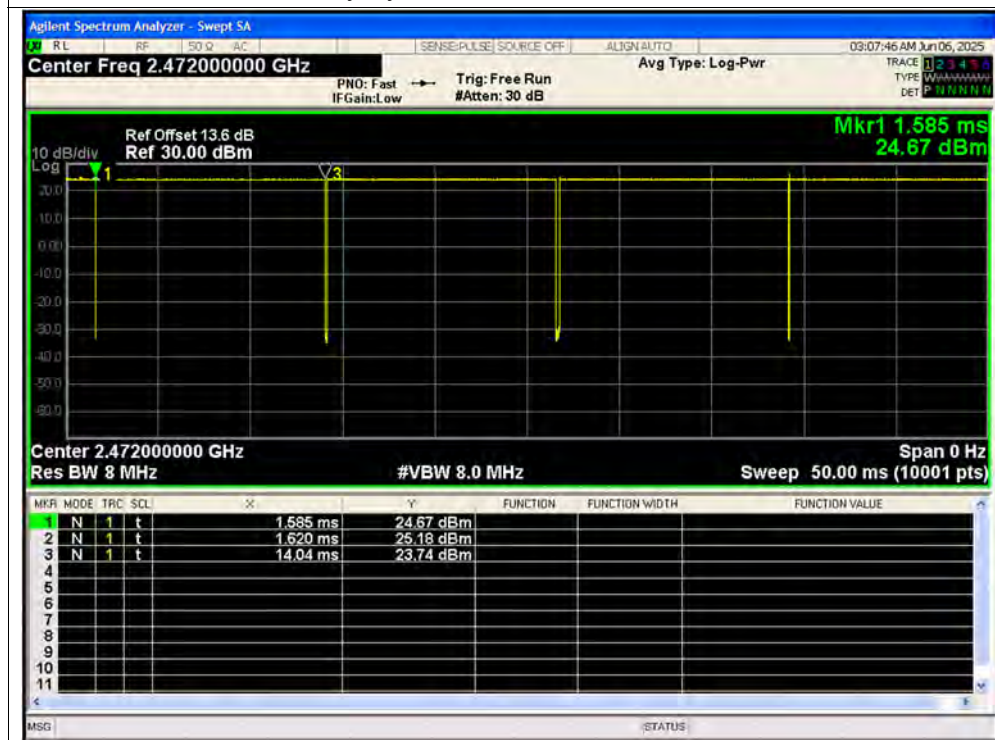


Duty Cycle NVNT b 2442MHz Ant1

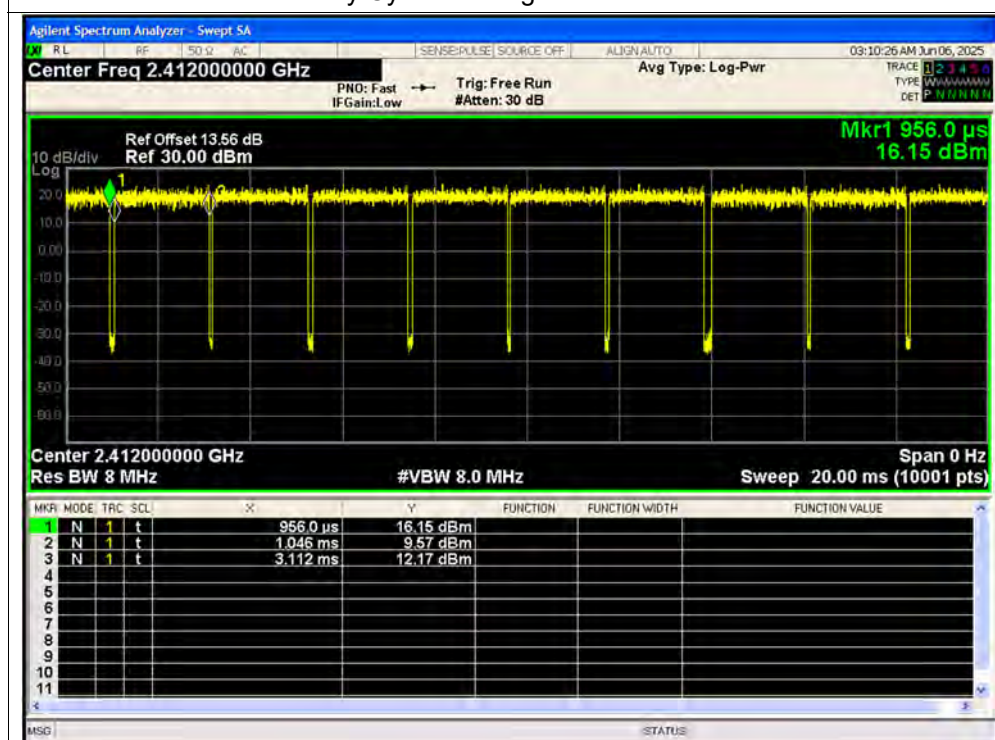




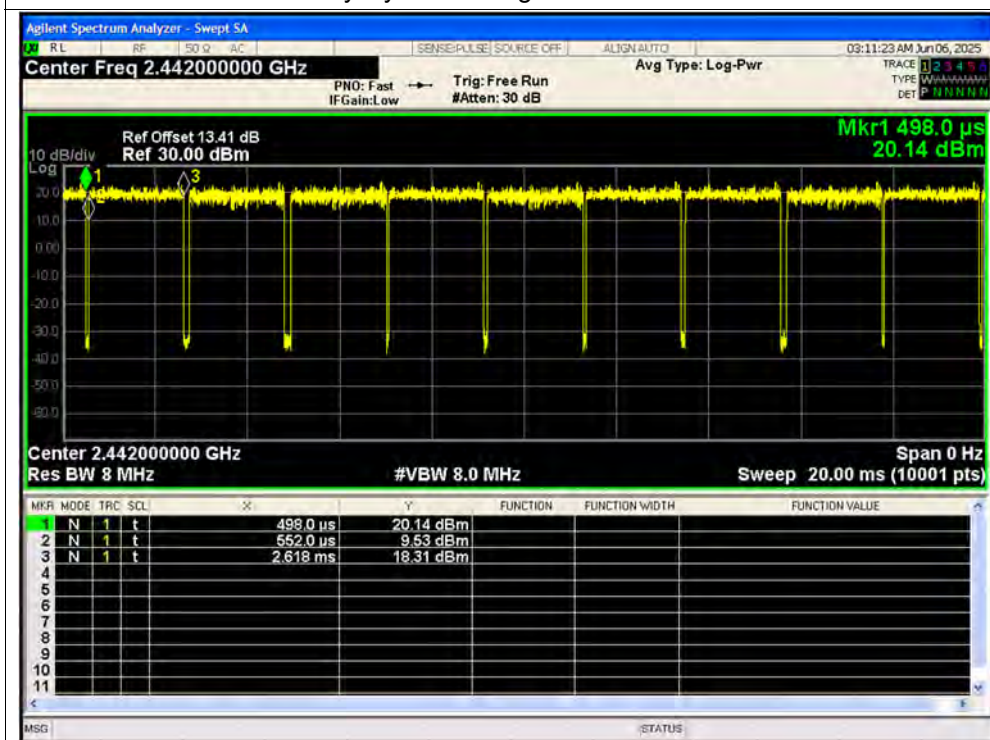
Duty Cycle NVNT b 2472MHz Ant1



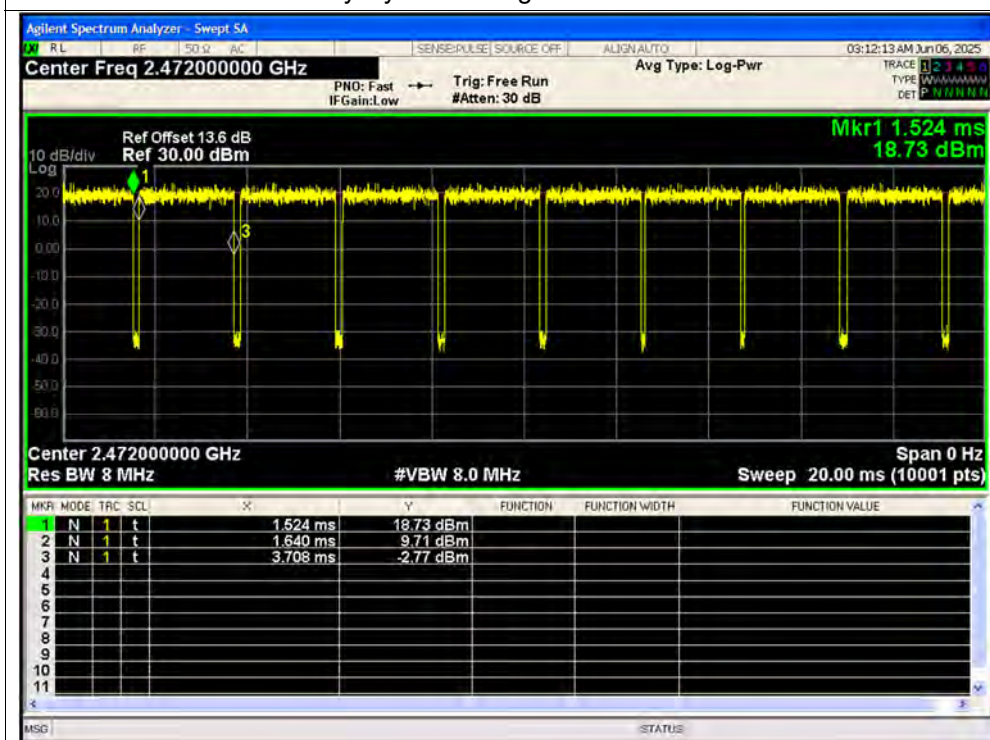
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2442MHz Ant1

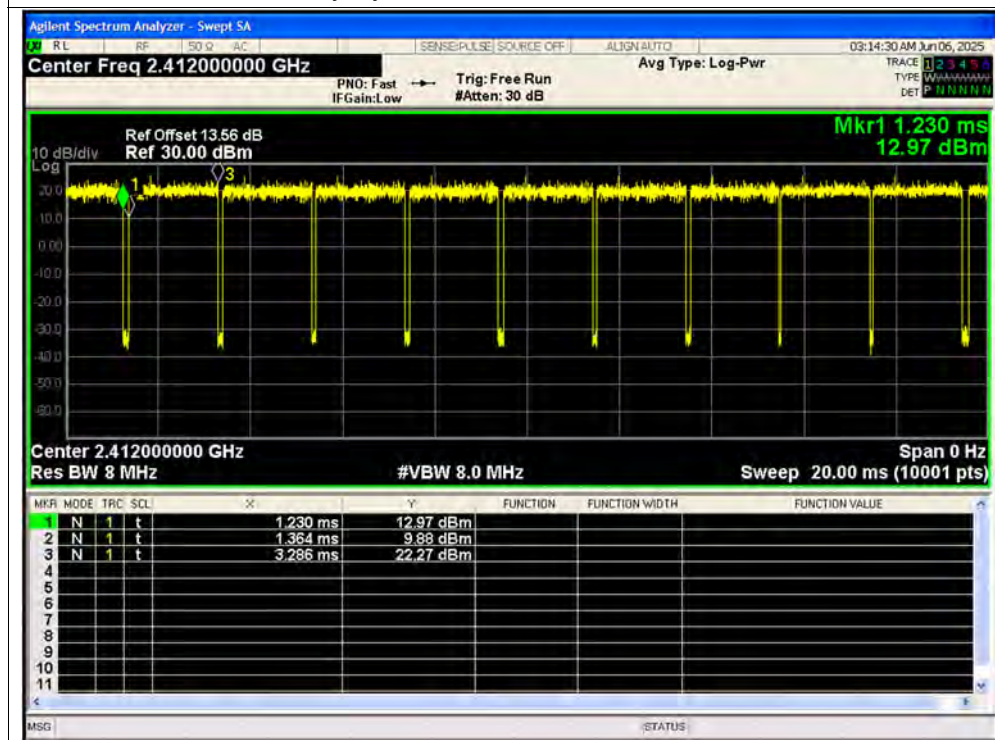


Duty Cycle NVNT g 2472MHz Ant1

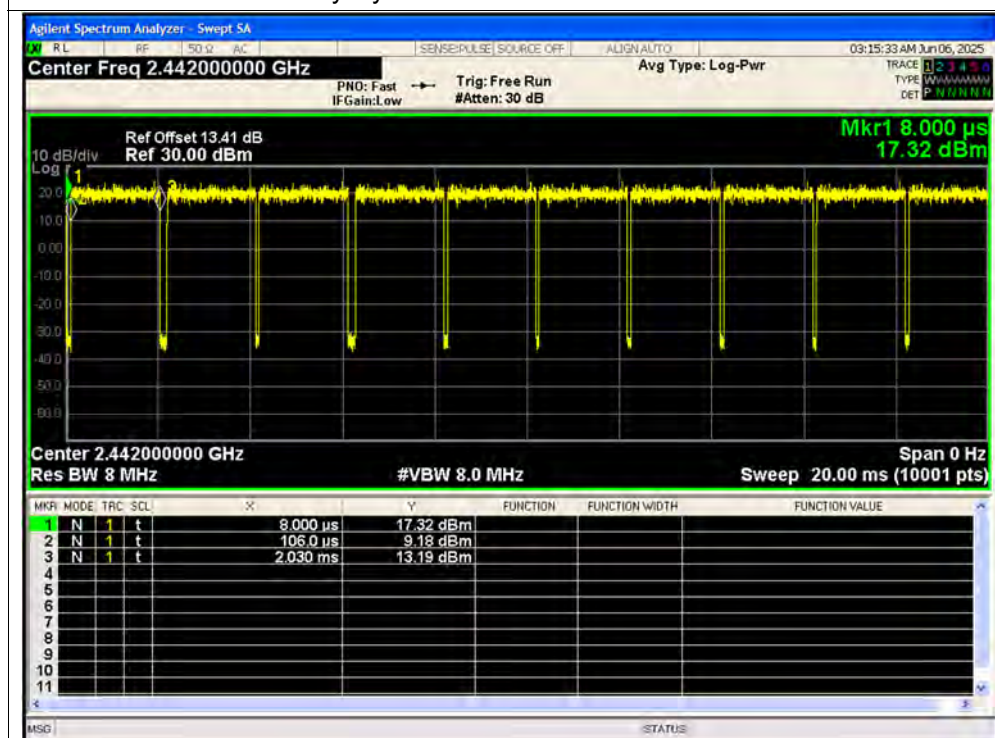




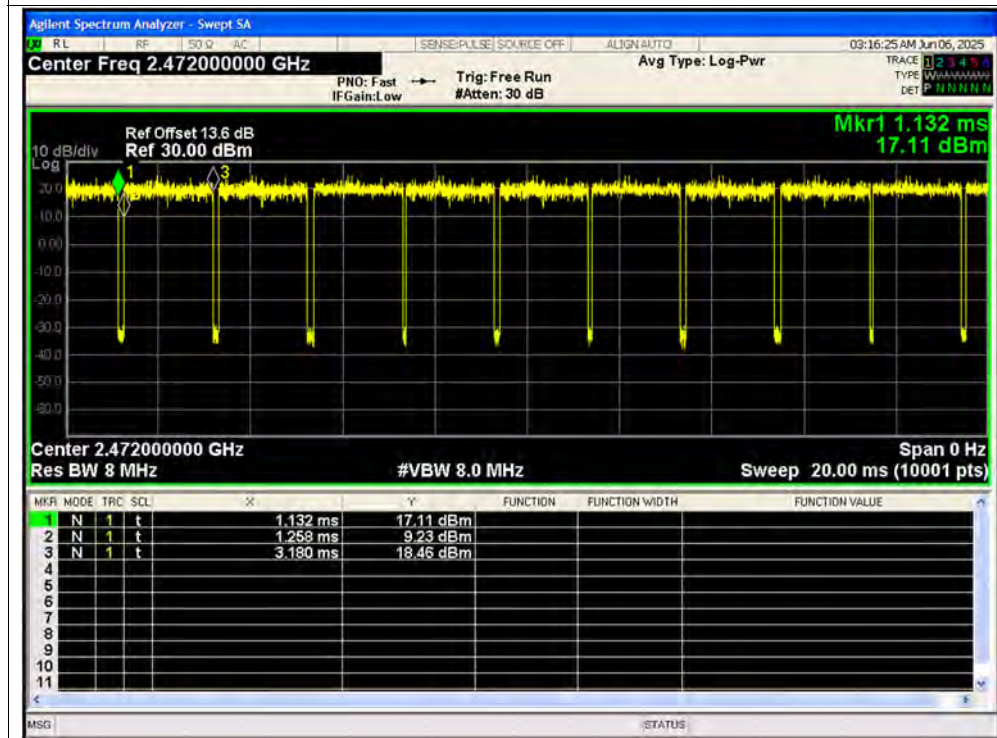
Duty Cycle NVNT n20 2412MHz Ant1



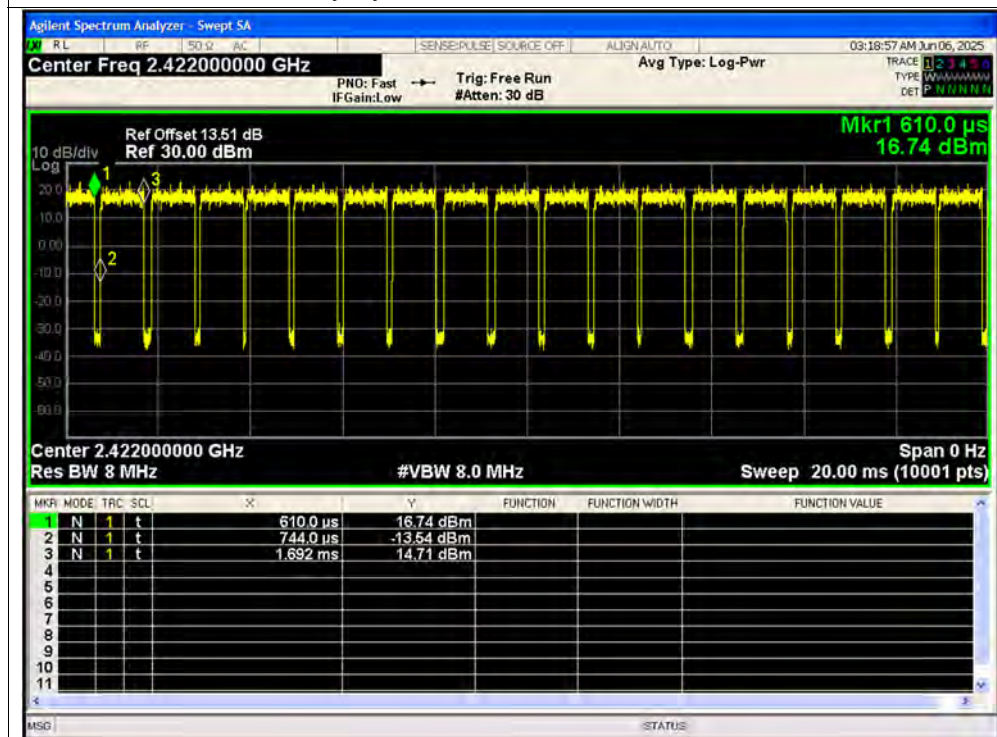
Duty Cycle NVNT n20 2442MHz Ant1



Duty Cycle NVNT n20 2472MHz Ant1

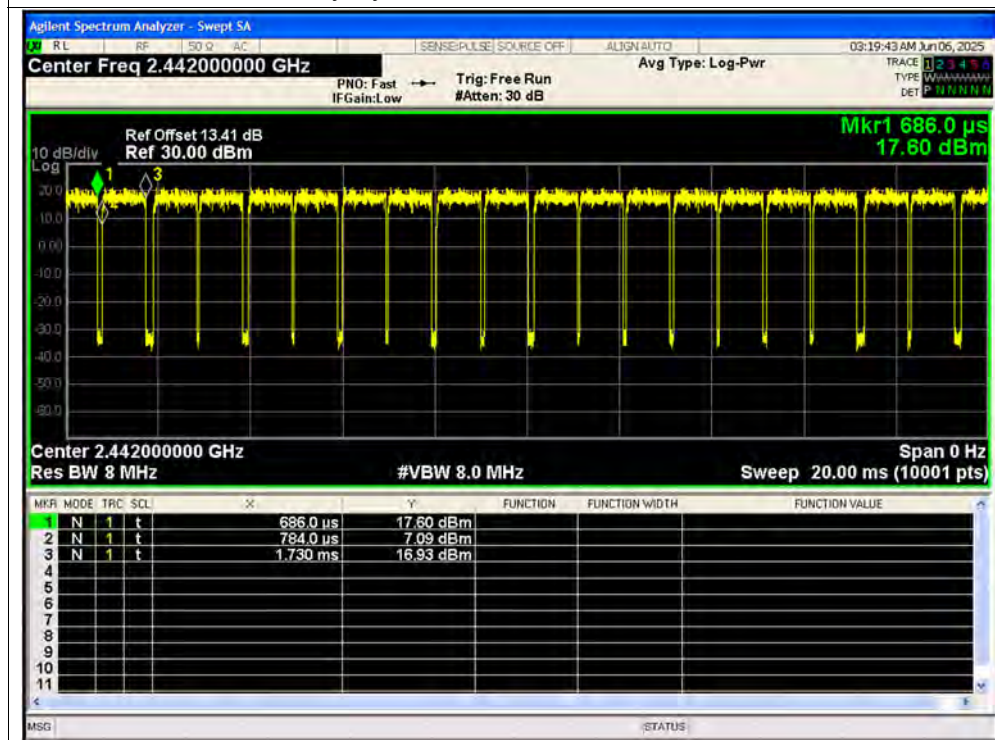


Duty Cycle NVNT n40 2422MHz Ant1

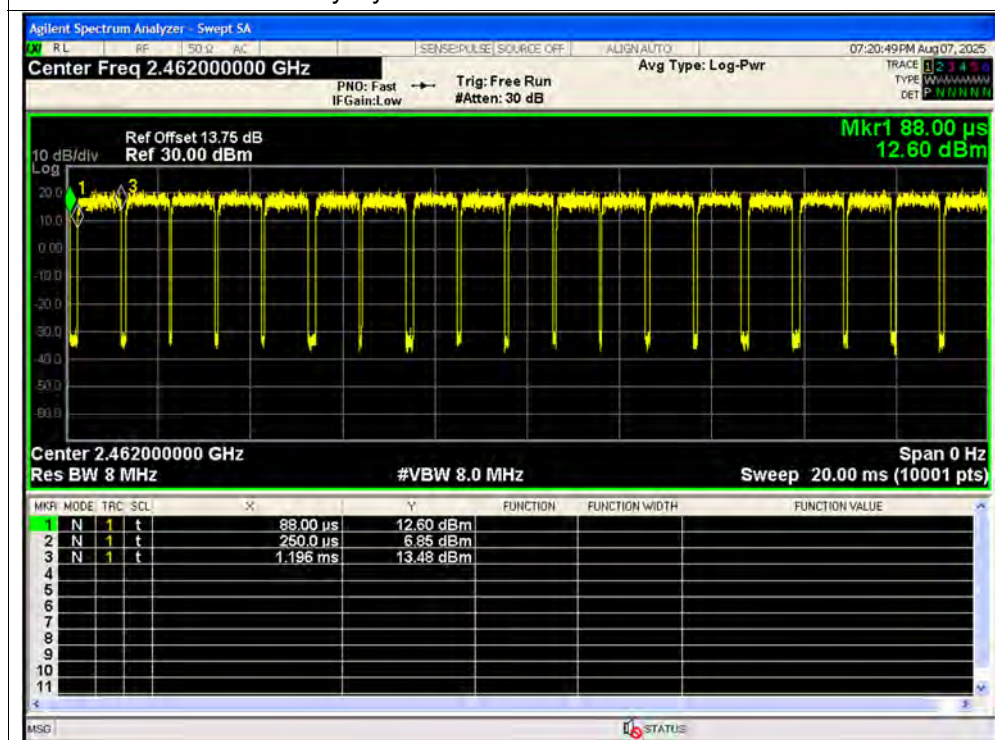




Duty Cycle NVNT n40 2442MHz Ant1



Duty Cycle NVNT n40 2462MHz Ant1



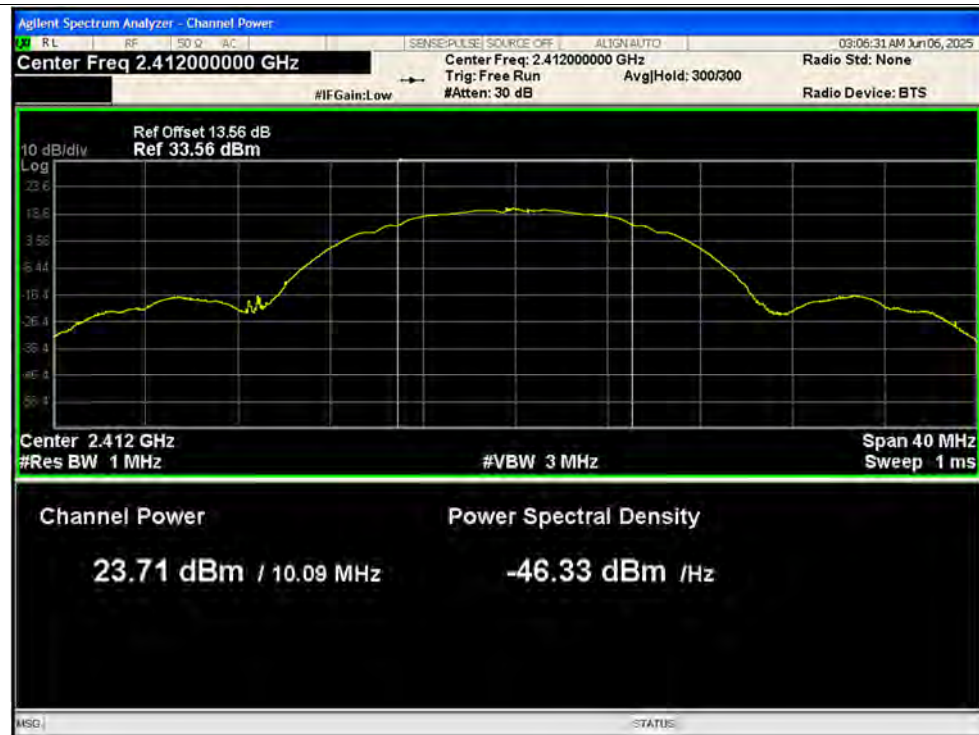
**A.2. Maximum Peak Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	23.71	0	23.71	0.23496	30	Pass
NVNT	b	2442	Ant1	23.45	0	23.45	0.22131	30	Pass
NVNT	b	2472	Ant1	23.5	0	23.5	0.22387	30	Pass
NVNT	g	2412	Ant1	24.89	0	24.89	0.30832	30	Pass
NVNT	g	2442	Ant1	24.65	0	24.65	0.29174	30	Pass
NVNT	g	2472	Ant1	24.7	0	24.7	0.29512	30	Pass
NVNT	n20	2412	Ant1	25.61	0	25.61	0.36392	30	Pass
NVNT	n20	2442	Ant1	25.31	0	25.31	0.33963	30	Pass
NVNT	n20	2472	Ant1	25.38	0	25.38	0.34514	30	Pass
NVNT	n40	2422	Ant1	26.33	0	26.33	0.42954	30	Pass
NVNT	n40	2442	Ant1	26.14	0	26.14	0.41115	30	Pass
NVNT	n40	2462	Ant1	26.05	0	26.05	0.40272	30	Pass

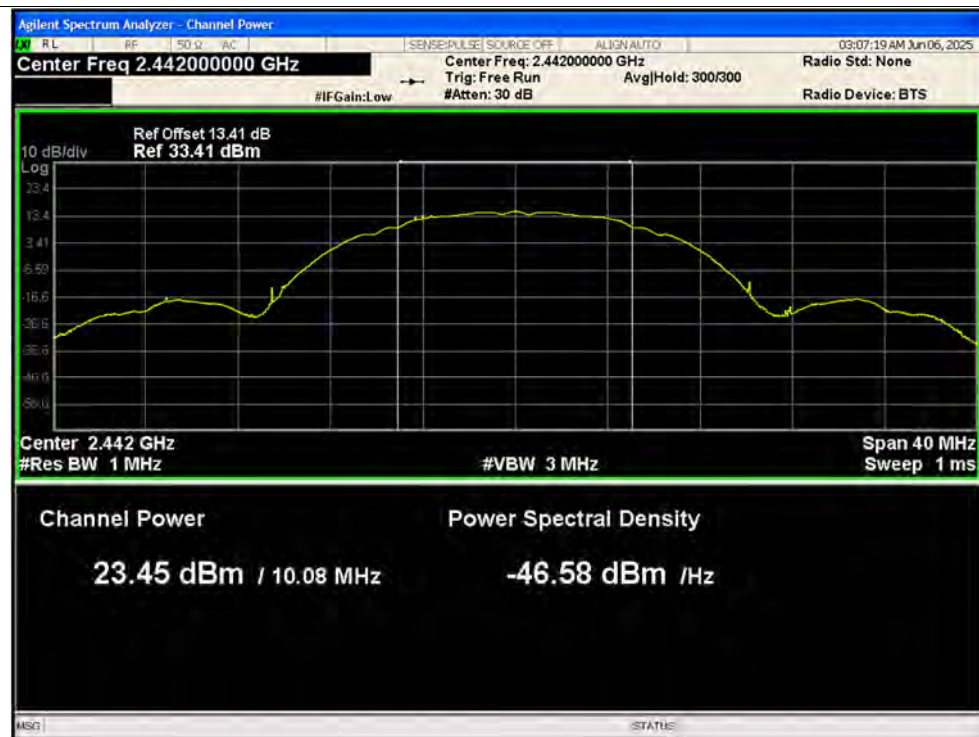


Test Graphs

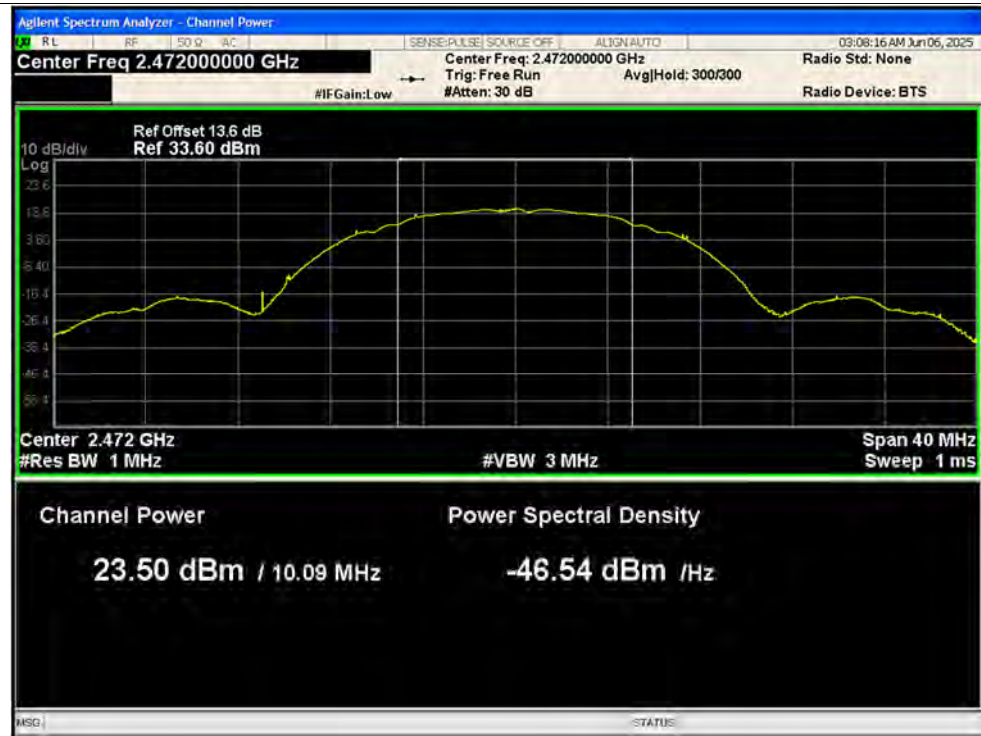
Peak Power NVNT b 2412MHz Ant1



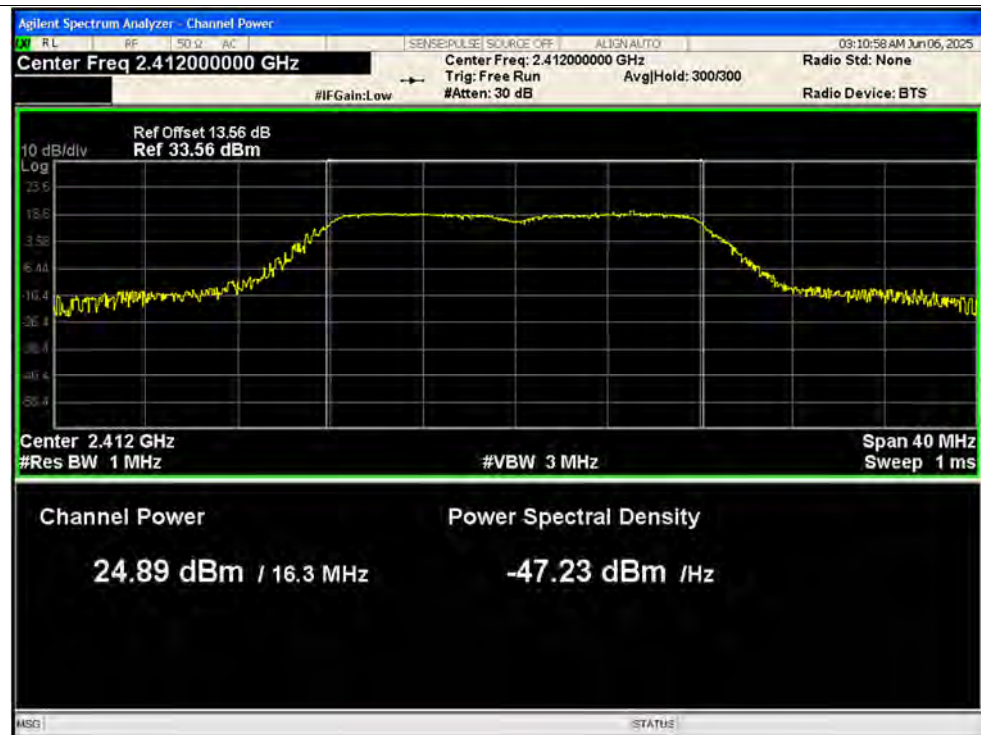
Peak Power NVNT b 2442MHz Ant1



Peak Power NVNT b 2472MHz Ant1

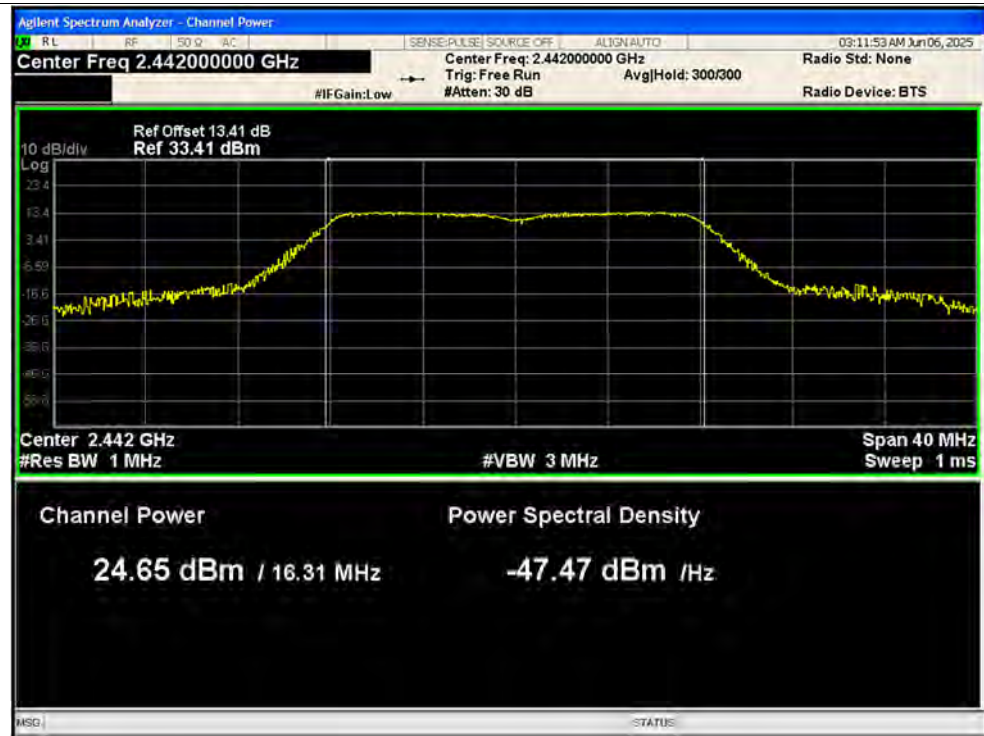


Peak Power NVNT g 2412MHz Ant1

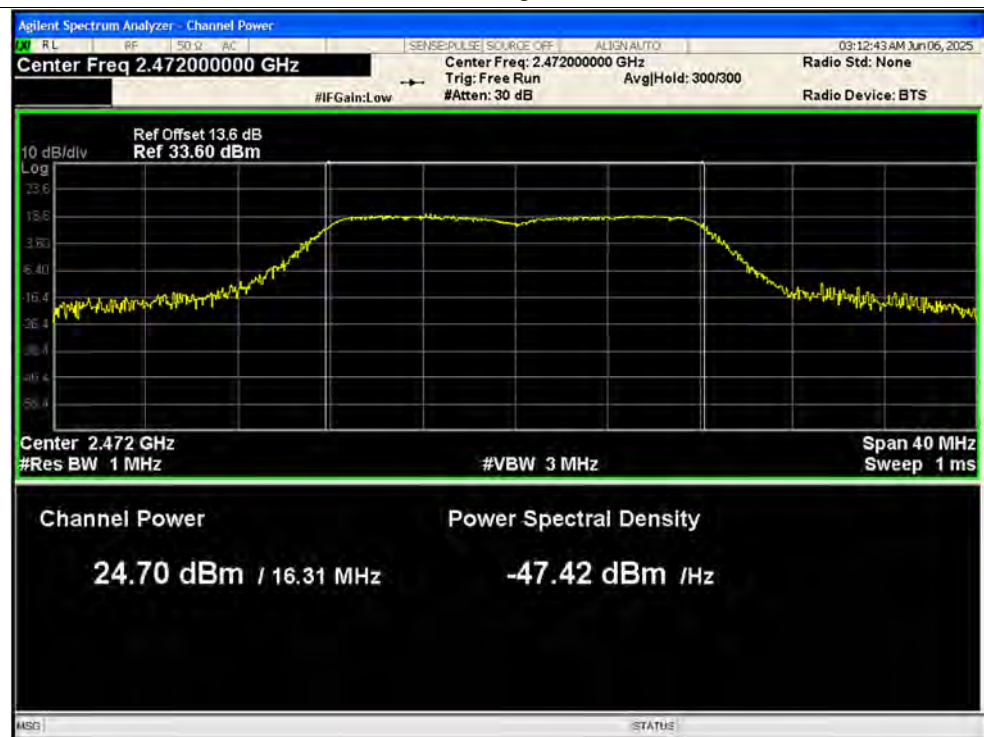




Peak Power NVNT g 2442MHz Ant1

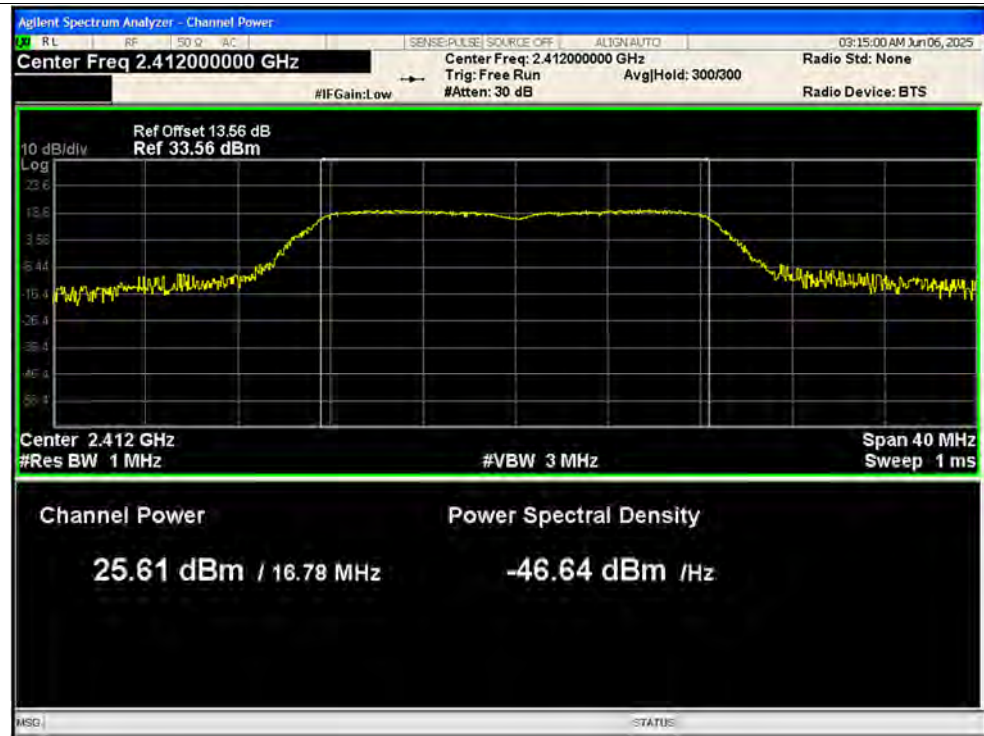


Peak Power NVNT g 2472MHz Ant1

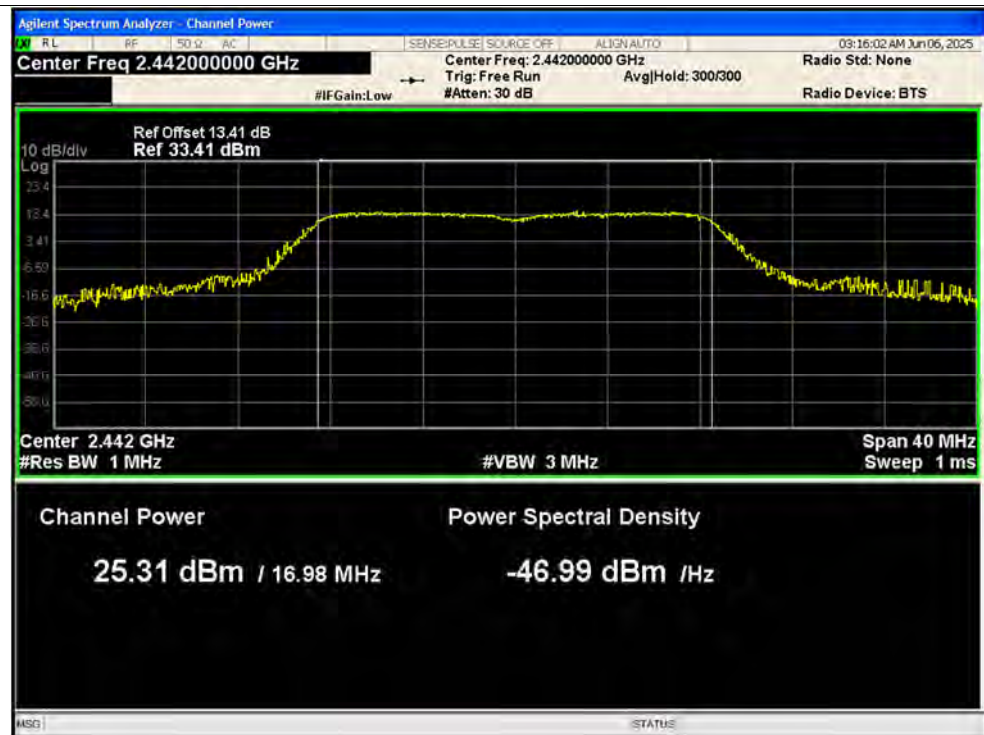




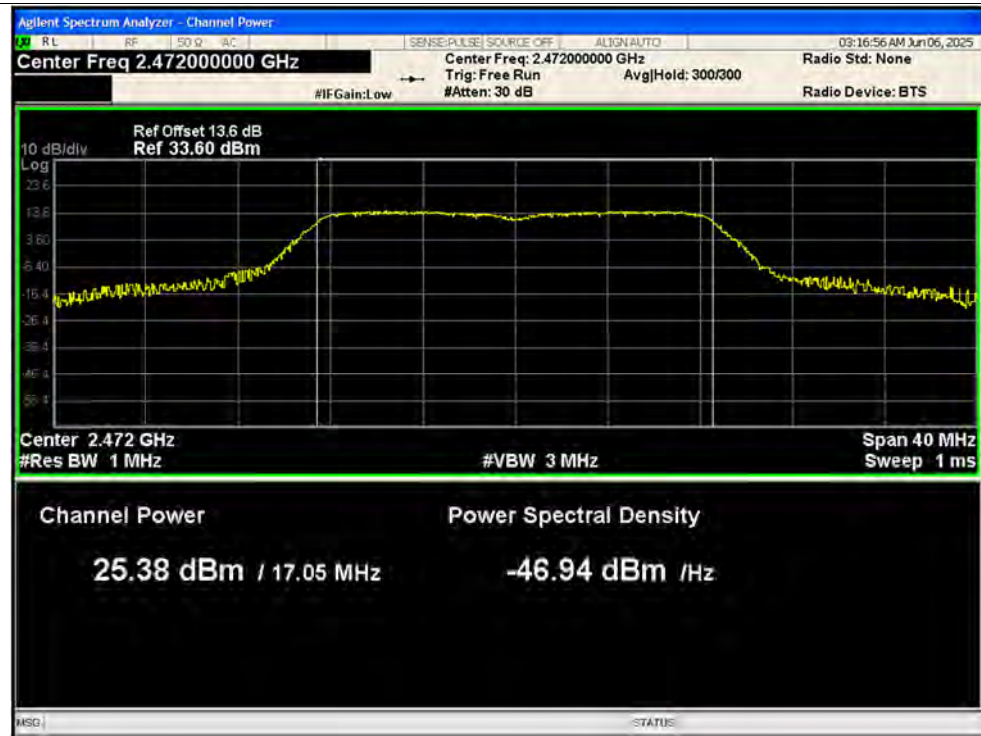
Peak Power NVNT n20 2412MHz Ant1



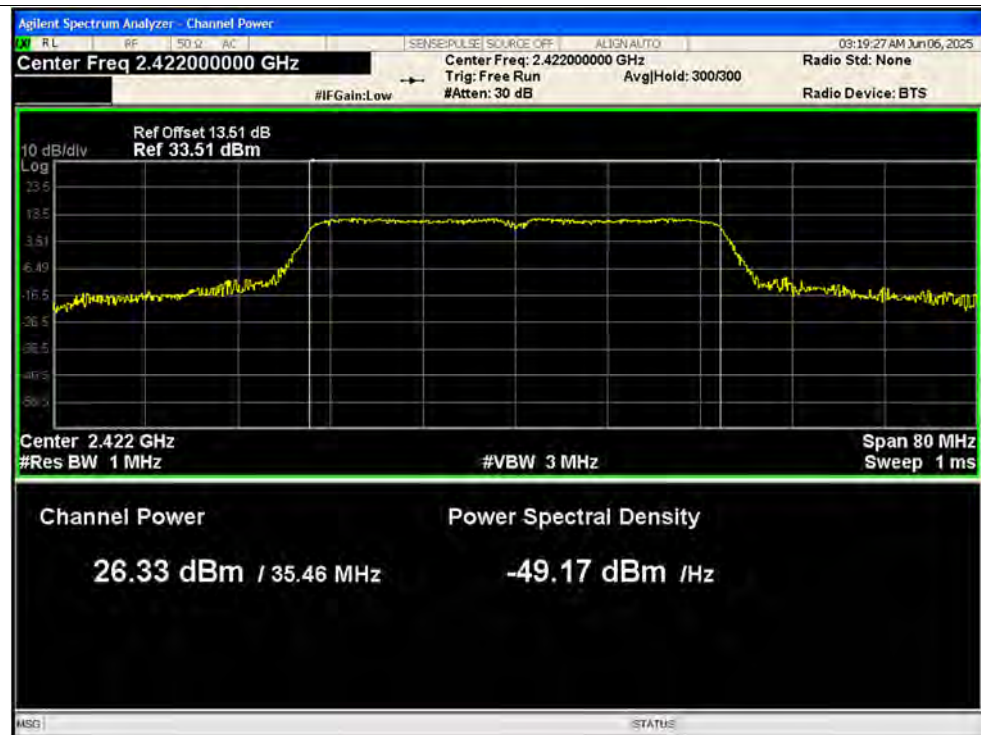
Peak Power NVNT n20 2442MHz Ant1



Peak Power NVNT n20 2472MHz Ant1

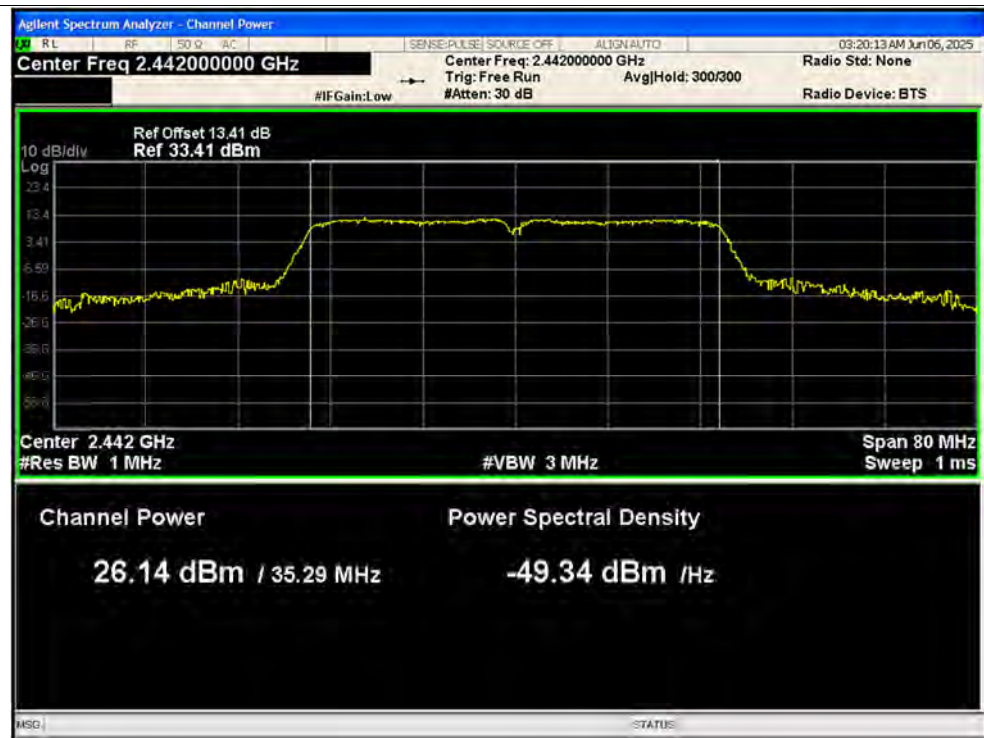


Peak Power NVNT n40 2422MHz Ant1

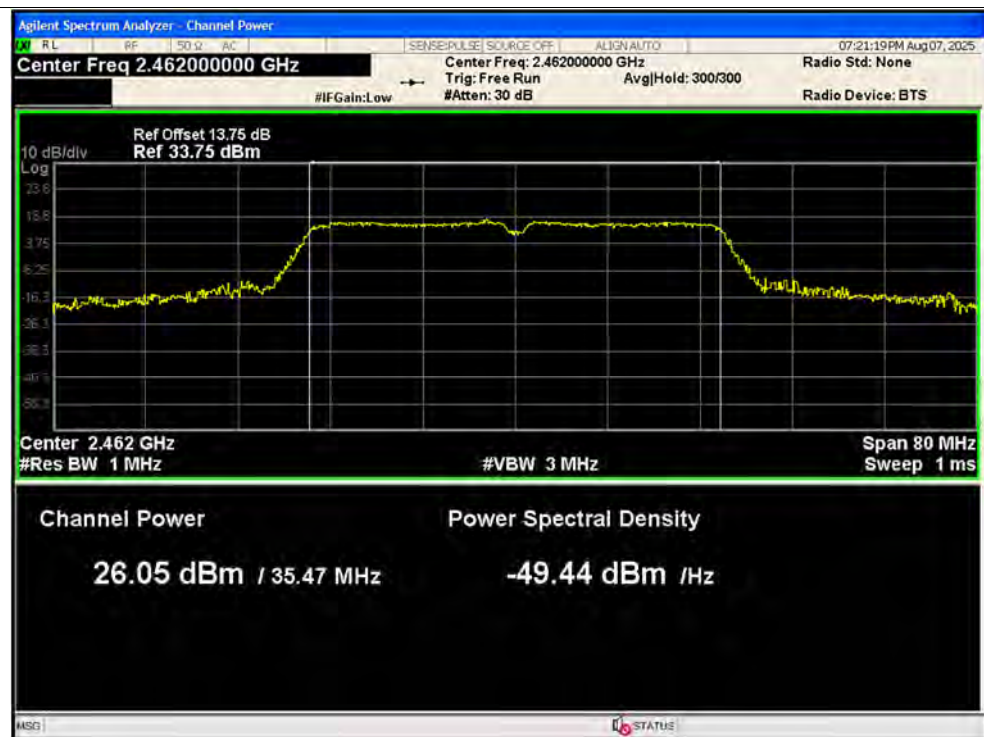




Peak Power NVNT n40 2442MHz Ant1



Peak Power NVNT n40 2462MHz Ant1



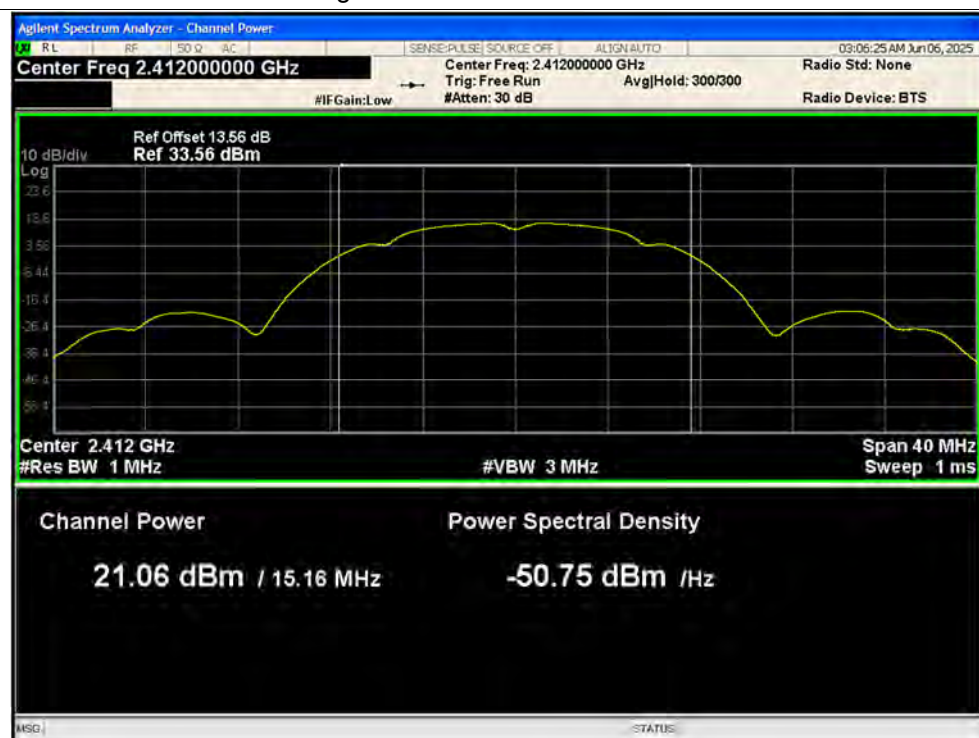
**A.3. Maximum Average Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	21.06	0.02	21.08	0.12823	30	Pass
NVNT	b	2442	Ant1	20.8	0.03	20.83	0.12106	30	Pass
NVNT	b	2472	Ant1	20.85	0.01	20.86	0.1219	30	Pass
NVNT	g	2412	Ant1	17.1	0.19	17.29	0.05358	30	Pass
NVNT	g	2442	Ant1	16.91	0.11	17.02	0.05035	30	Pass
NVNT	g	2472	Ant1	16.98	0.24	17.22	0.05272	30	Pass
NVNT	n20	2412	Ant1	17.91	0.29	18.2	0.06607	30	Pass
NVNT	n20	2442	Ant1	17.63	0.22	17.85	0.06095	30	Pass
NVNT	n20	2472	Ant1	17.72	0.28	18	0.0631	30	Pass
NVNT	n40	2422	Ant1	18.18	0.57	18.75	0.07499	30	Pass
NVNT	n40	2442	Ant1	18.11	0.43	18.54	0.07145	30	Pass
NVNT	n40	2462	Ant1	17.88	0.69	18.57	0.07194	30	Pass

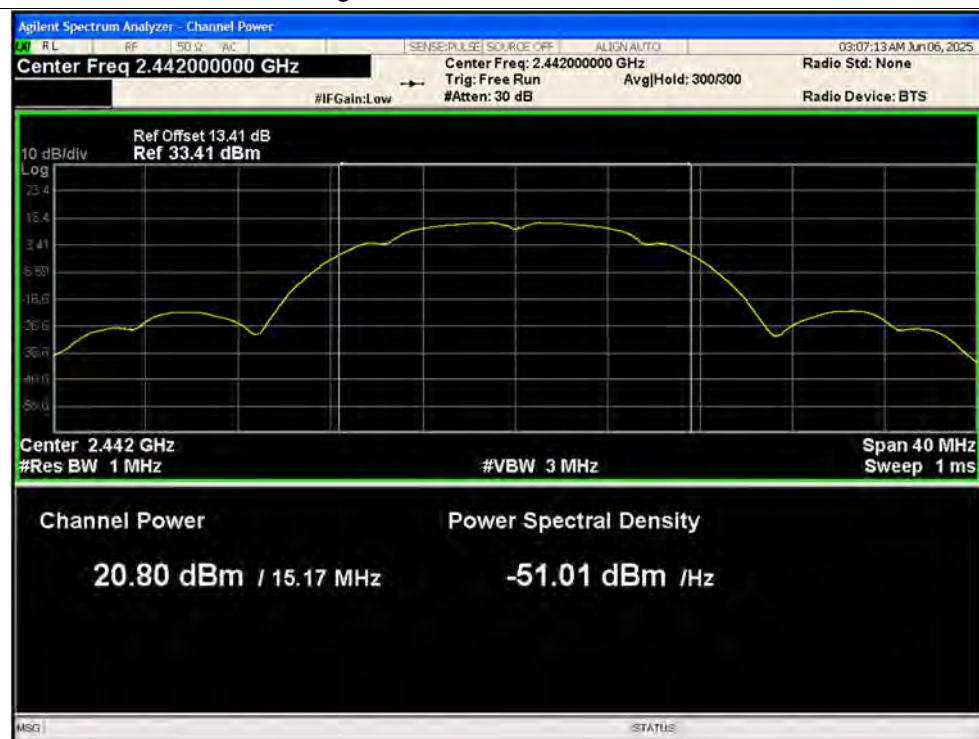


Test Graphs

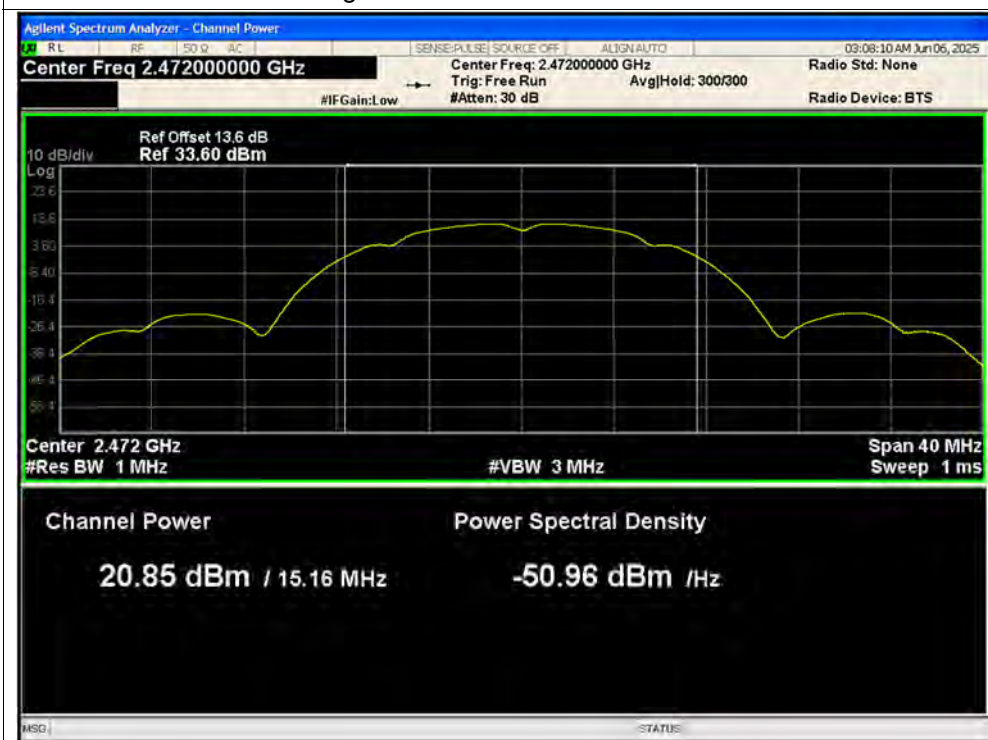
Average Power NVNT b 2412MHz Ant1



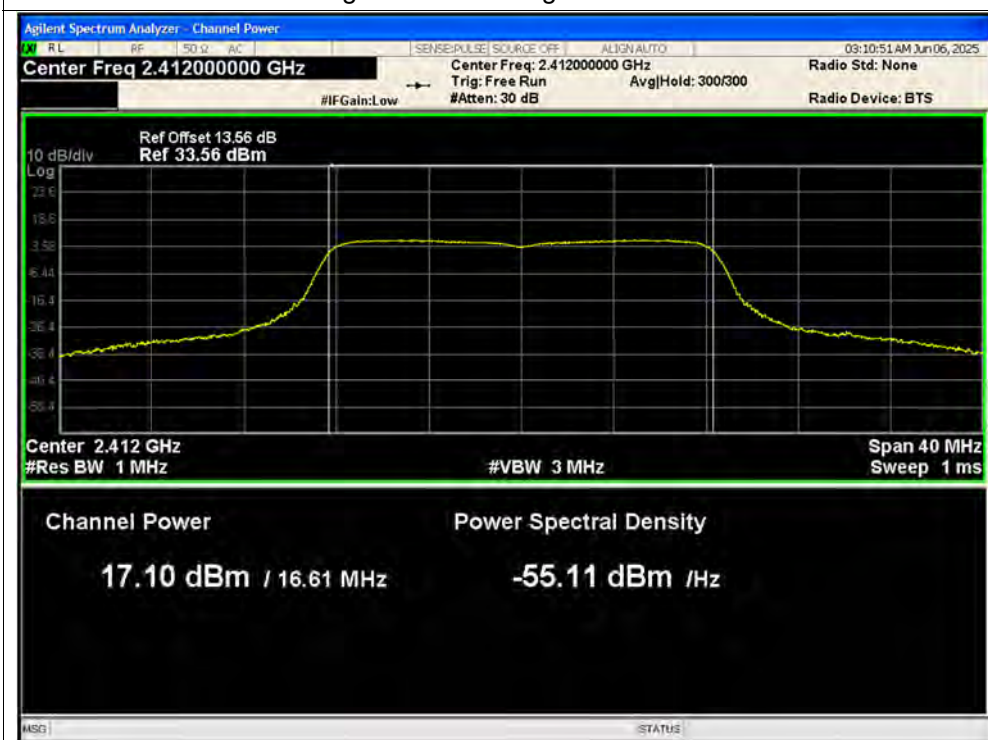
Average Power NVNT b 2442MHz Ant1



Average Power NVNT b 2472MHz Ant1

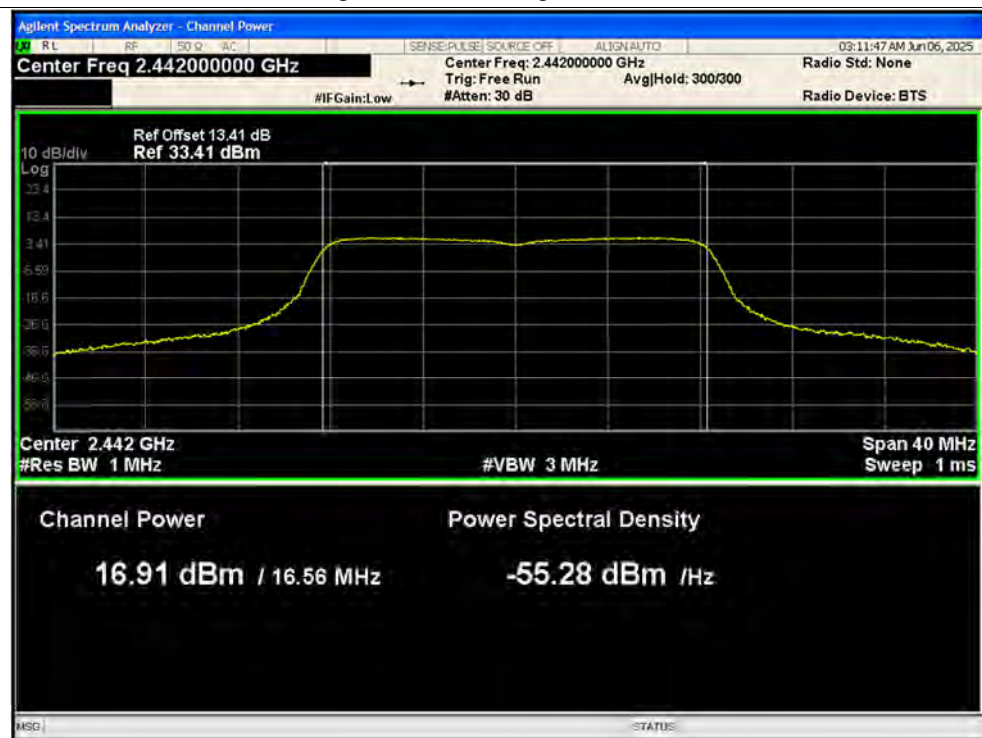


Average Power NVNT g 2412MHz Ant1

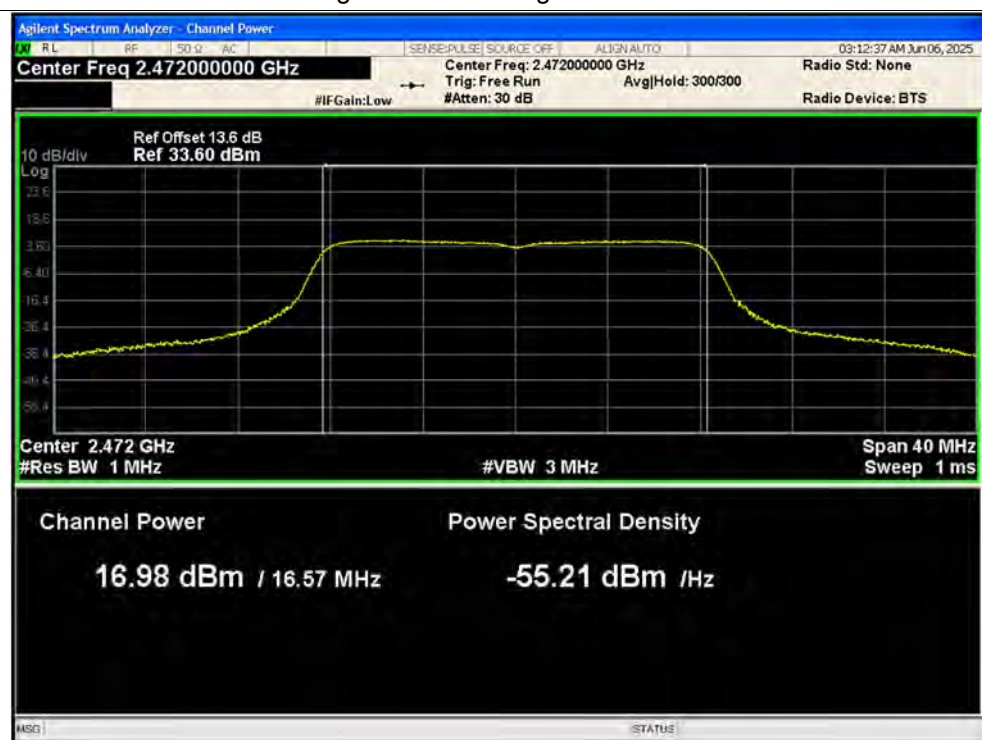




Average Power NVNT g 2442MHz Ant1

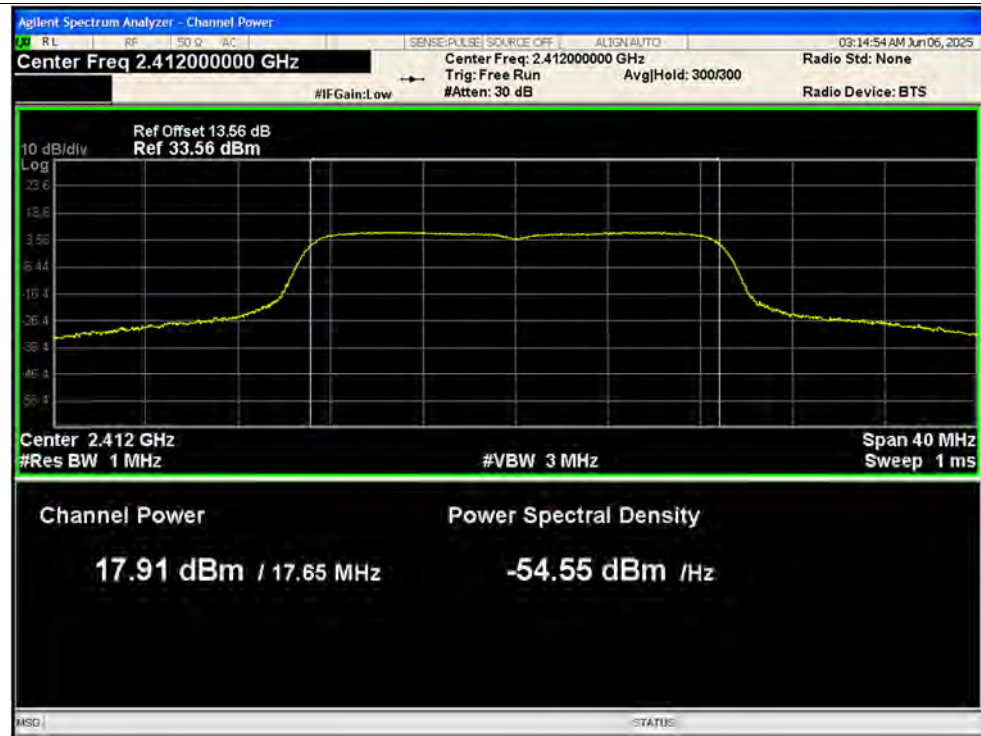


Average Power NVNT g 2472MHz Ant1

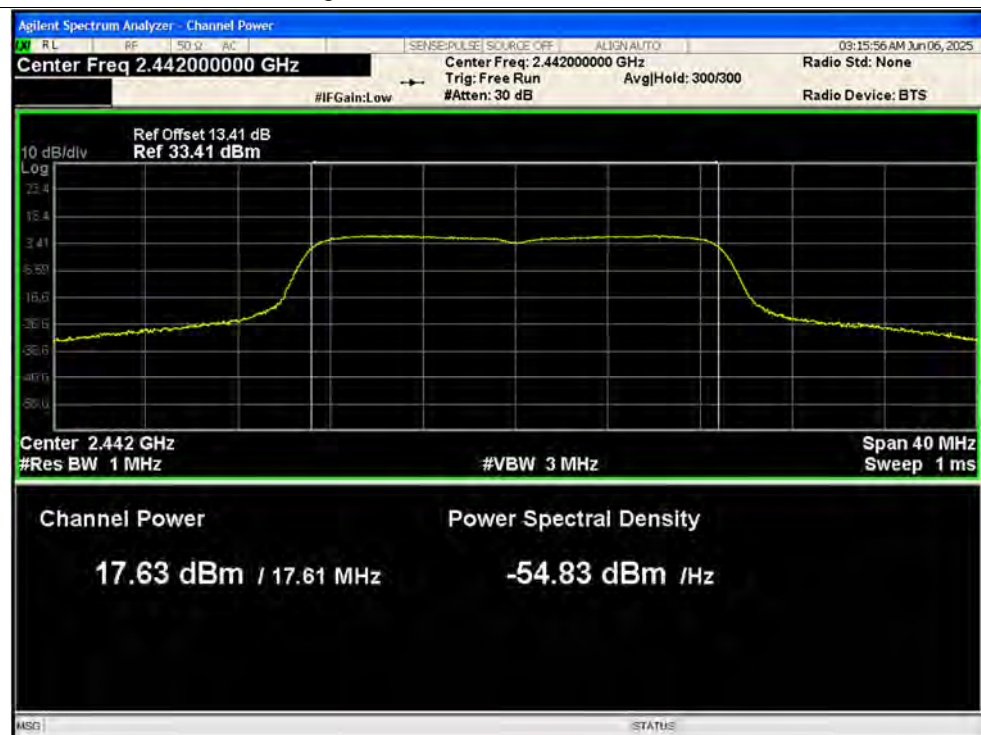




Average Power NVNT n20 2412MHz Ant1

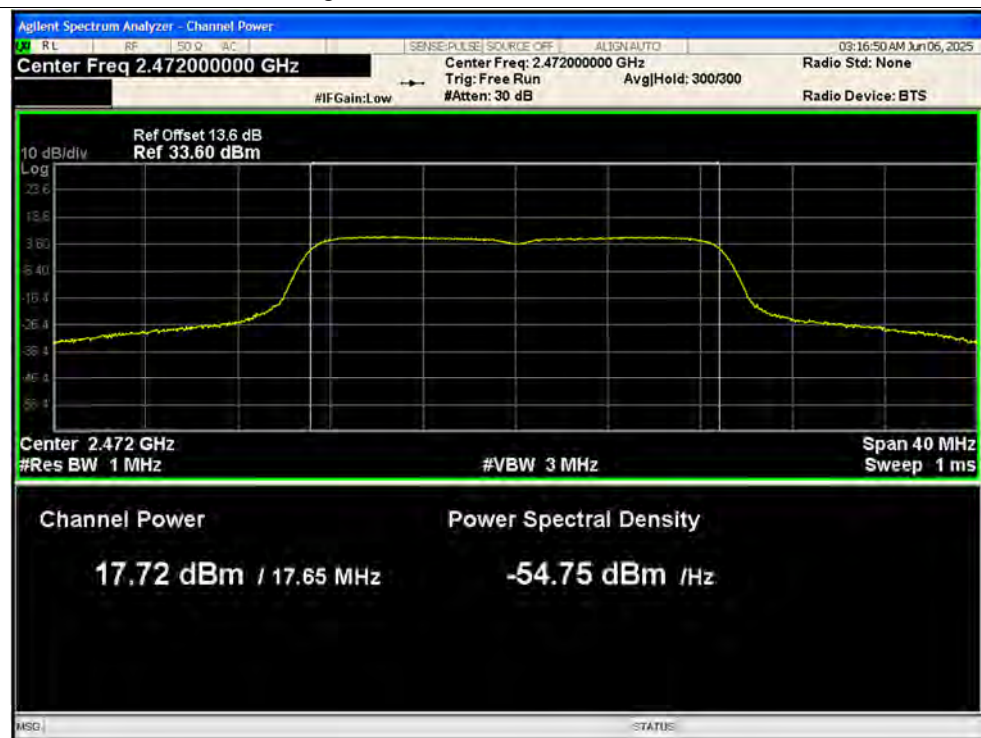


Average Power NVNT n20 2442MHz Ant1

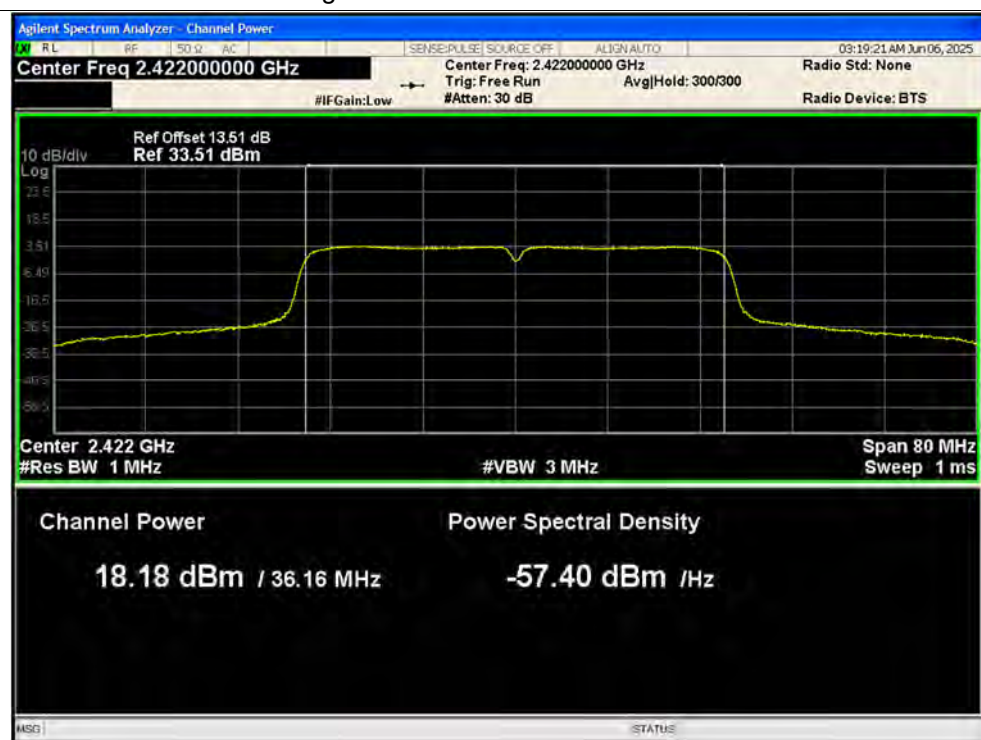




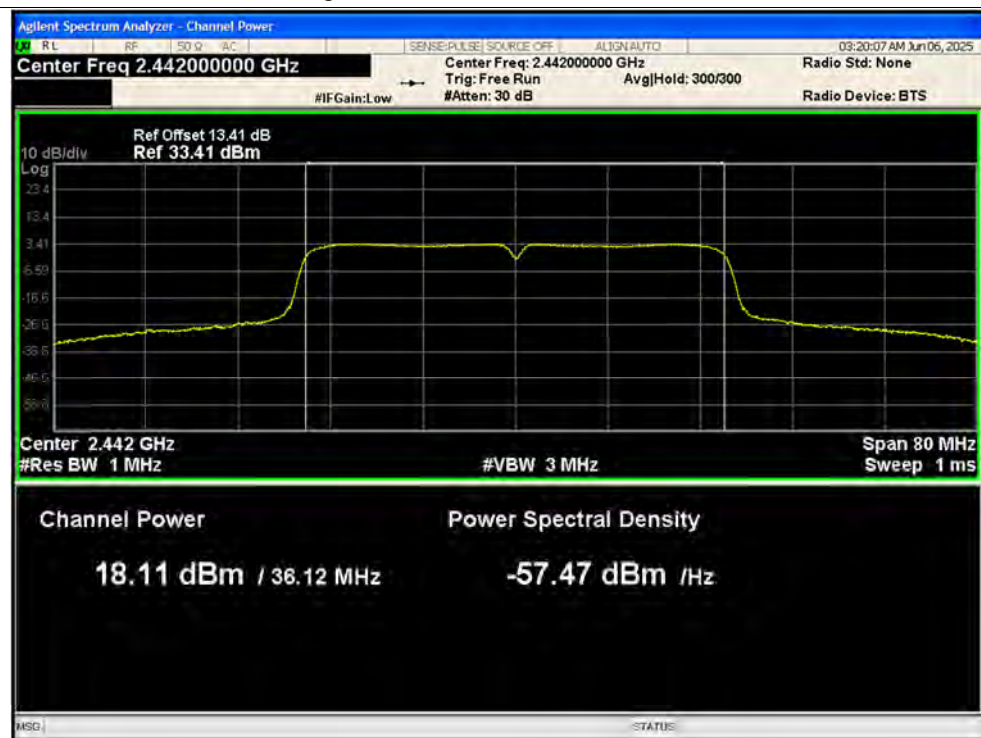
Average Power NVNT n20 2472MHz Ant1



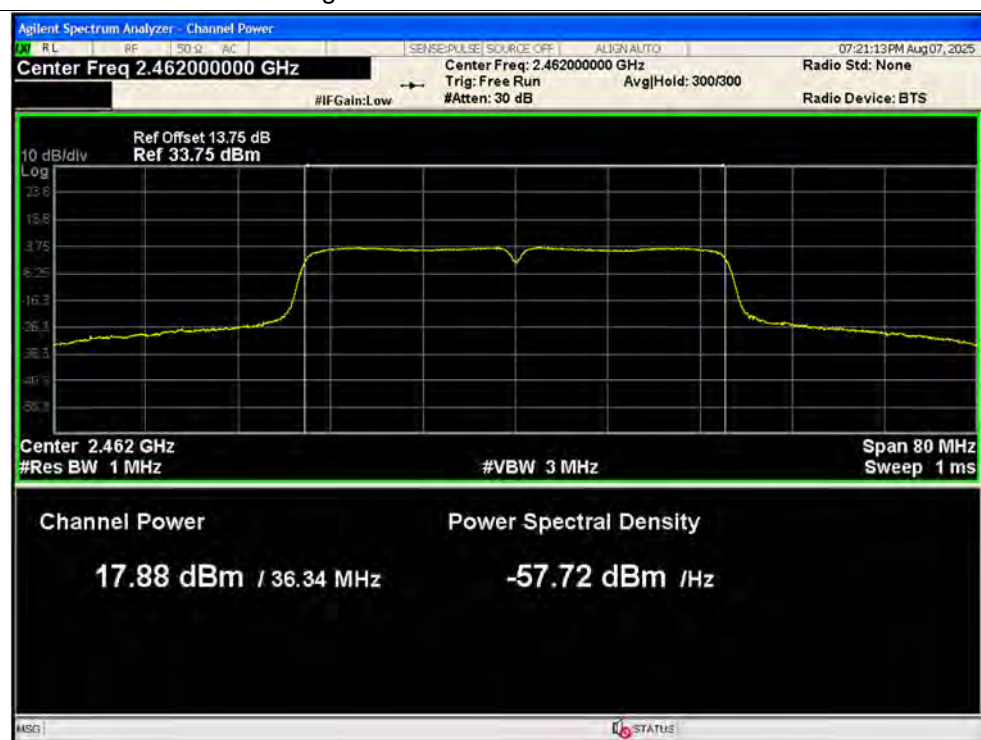
Average Power NVNT n40 2422MHz Ant1



Average Power NVNT n40 2442MHz Ant1



Average Power NVNT n40 2462MHz Ant1

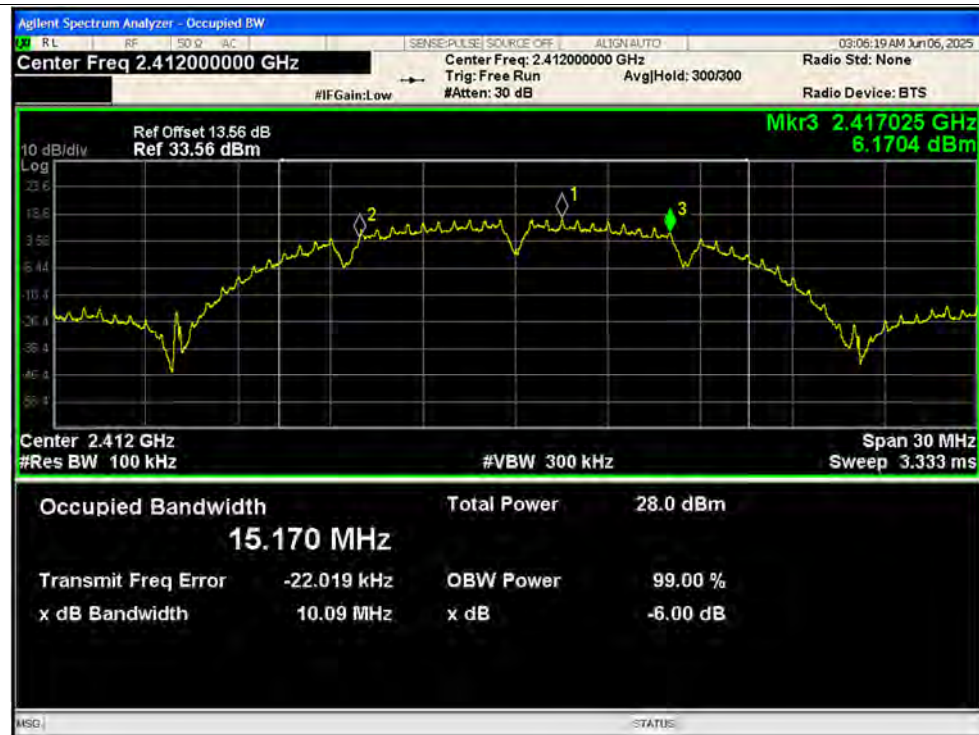


**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.09	0.5	Pass
NVNT	b	2442	Ant1	10.08	0.5	Pass
NVNT	b	2472	Ant1	10.09	0.5	Pass
NVNT	g	2412	Ant1	16.3	0.5	Pass
NVNT	g	2442	Ant1	16.31	0.5	Pass
NVNT	g	2472	Ant1	16.31	0.5	Pass
NVNT	n20	2412	Ant1	16.78	0.5	Pass
NVNT	n20	2442	Ant1	16.98	0.5	Pass
NVNT	n20	2472	Ant1	17.05	0.5	Pass
NVNT	n40	2422	Ant1	35.46	0.5	Pass
NVNT	n40	2442	Ant1	35.29	0.5	Pass
NVNT	n40	2462	Ant1	35.47	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



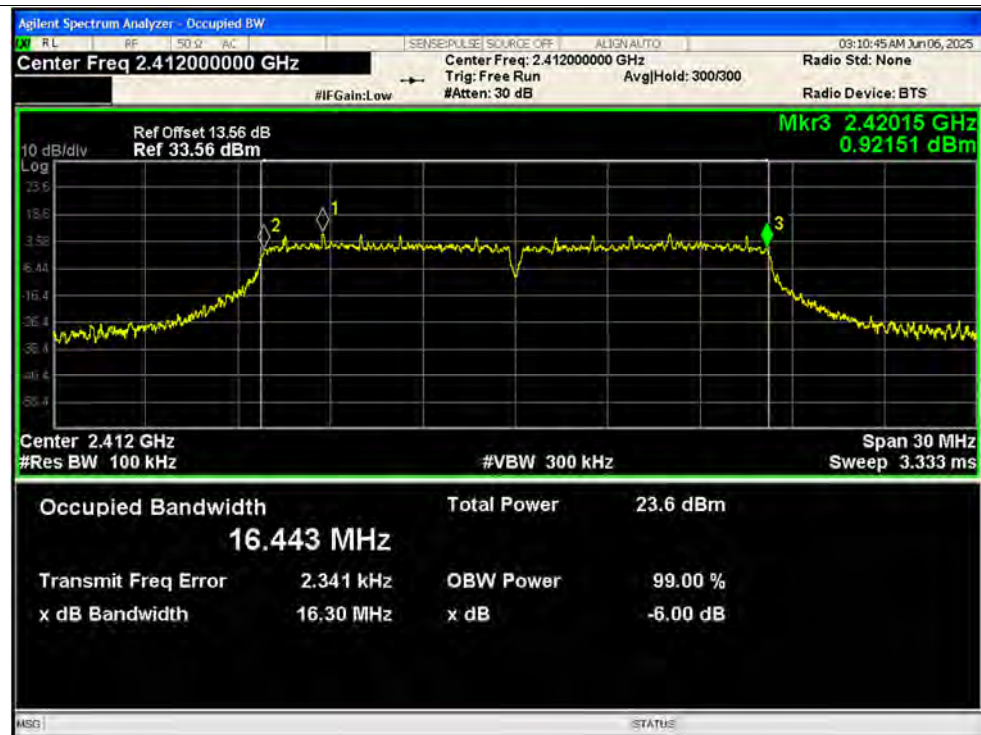
-6dB Bandwidth NVNT b 2442MHz Ant1



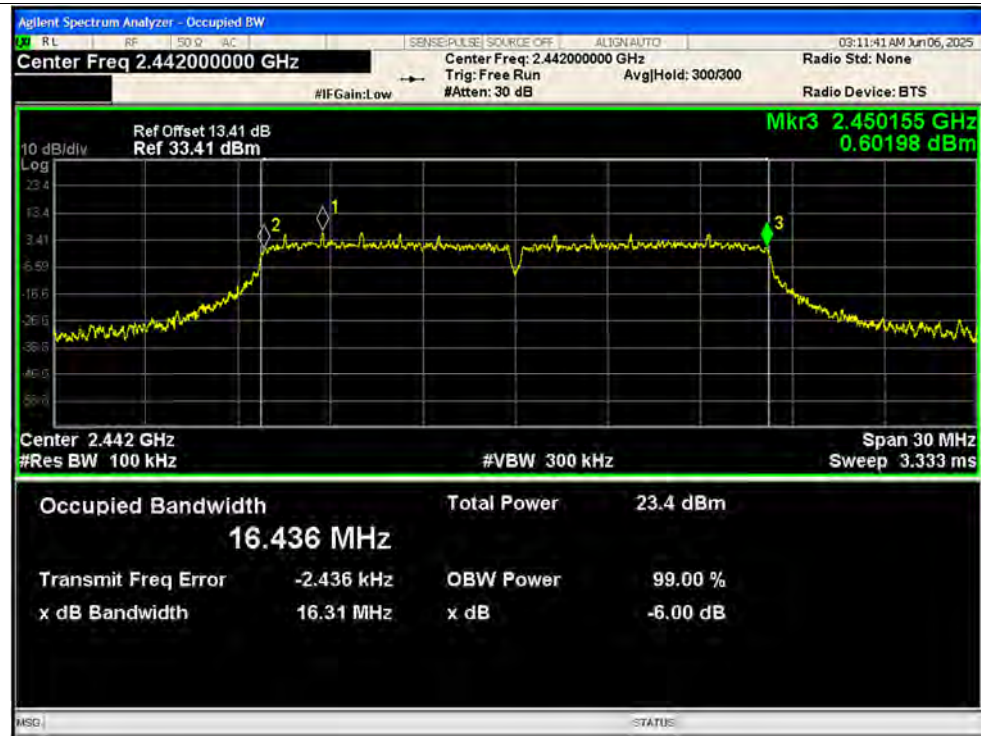
-6dB Bandwidth NVNT b 2472MHz Ant1



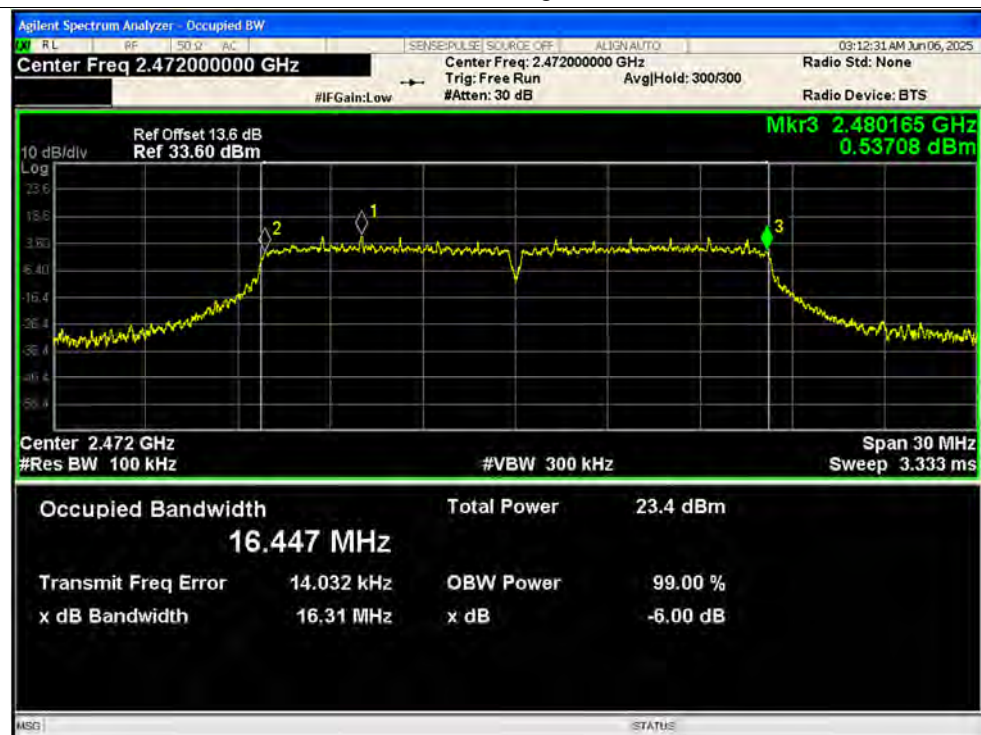
-6dB Bandwidth NVNT g 2412MHz Ant1



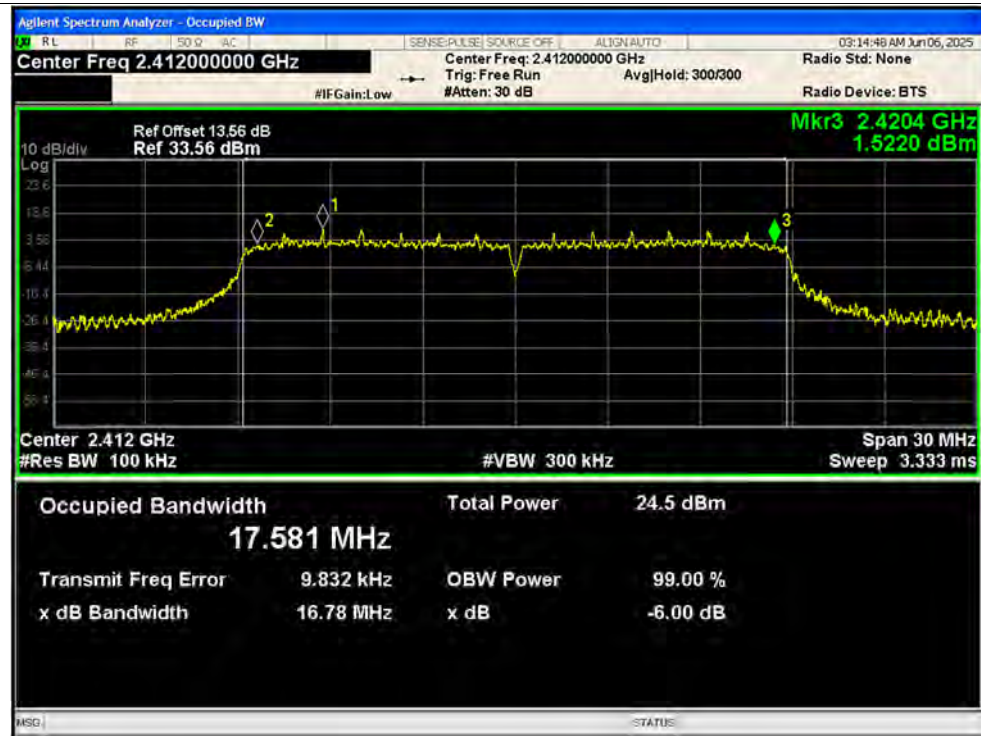
-6dB Bandwidth NVNT g 2442MHz Ant1



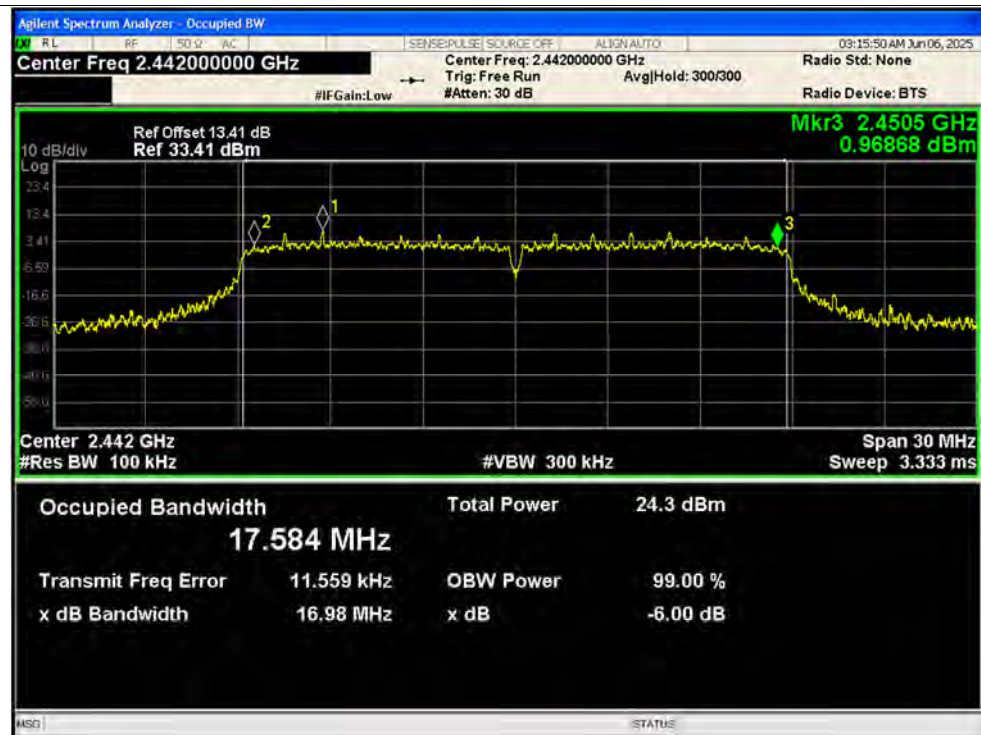
-6dB Bandwidth NVNT g 2472MHz Ant1



-6dB Bandwidth NVNT n20 2412MHz Ant1

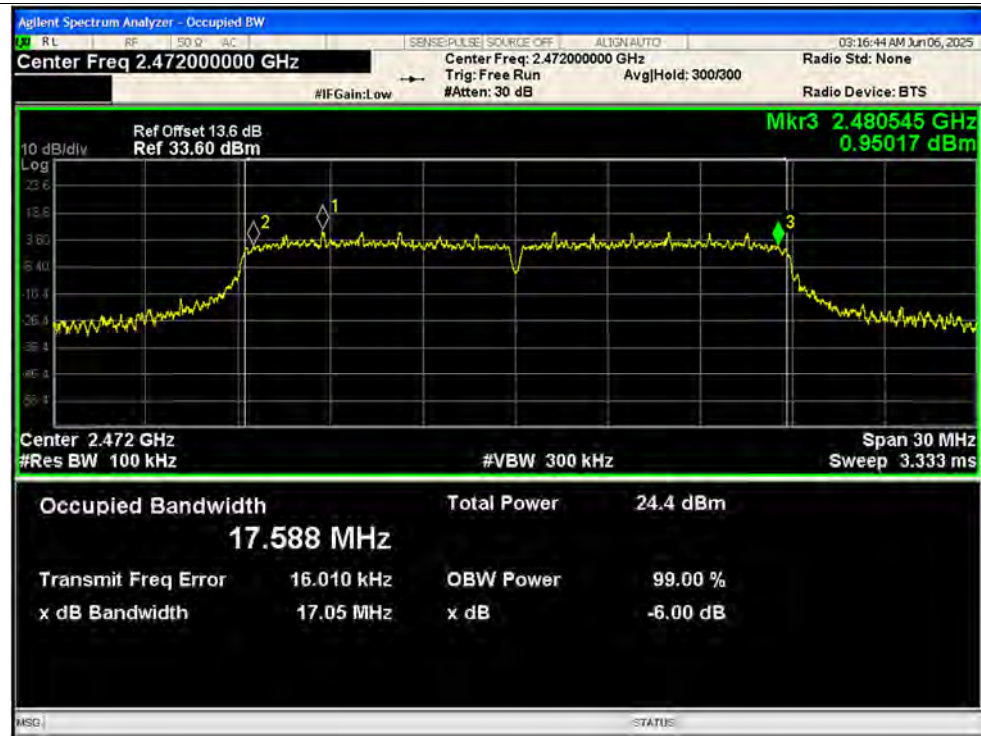


-6dB Bandwidth NVNT n20 2442MHz Ant1

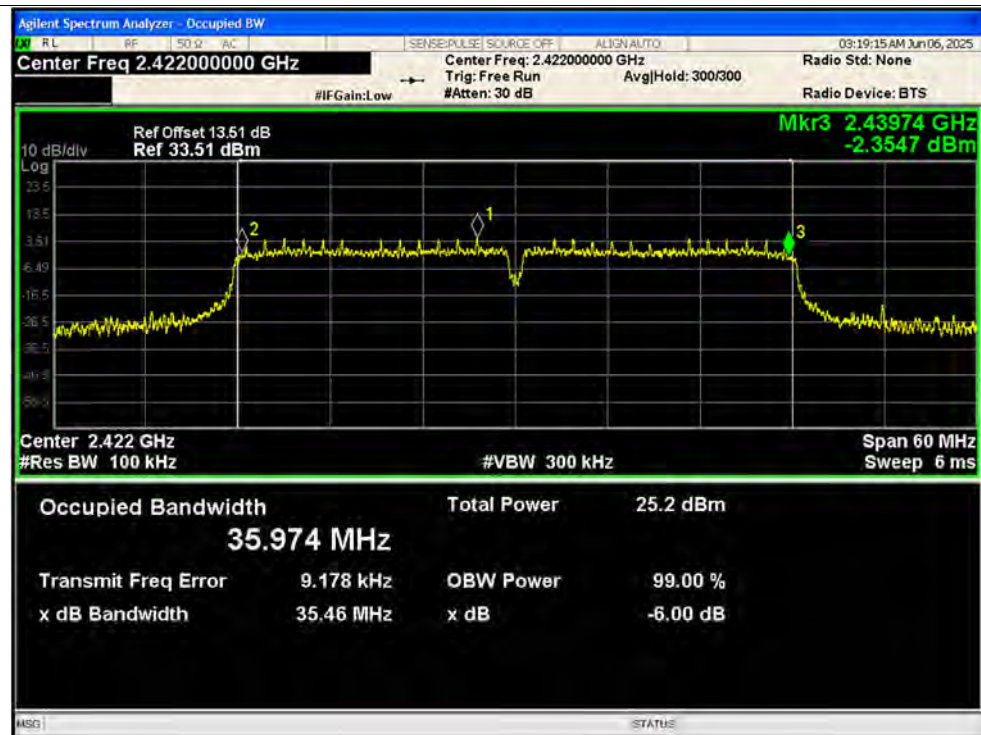




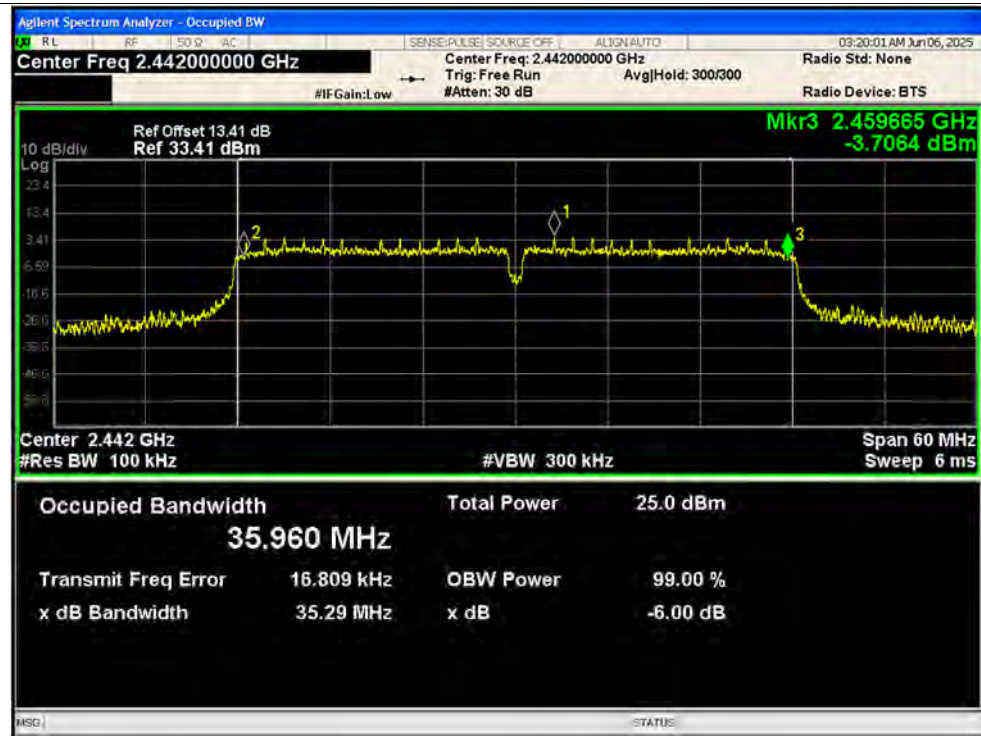
-6dB Bandwidth NVNT n20 2472MHz Ant1



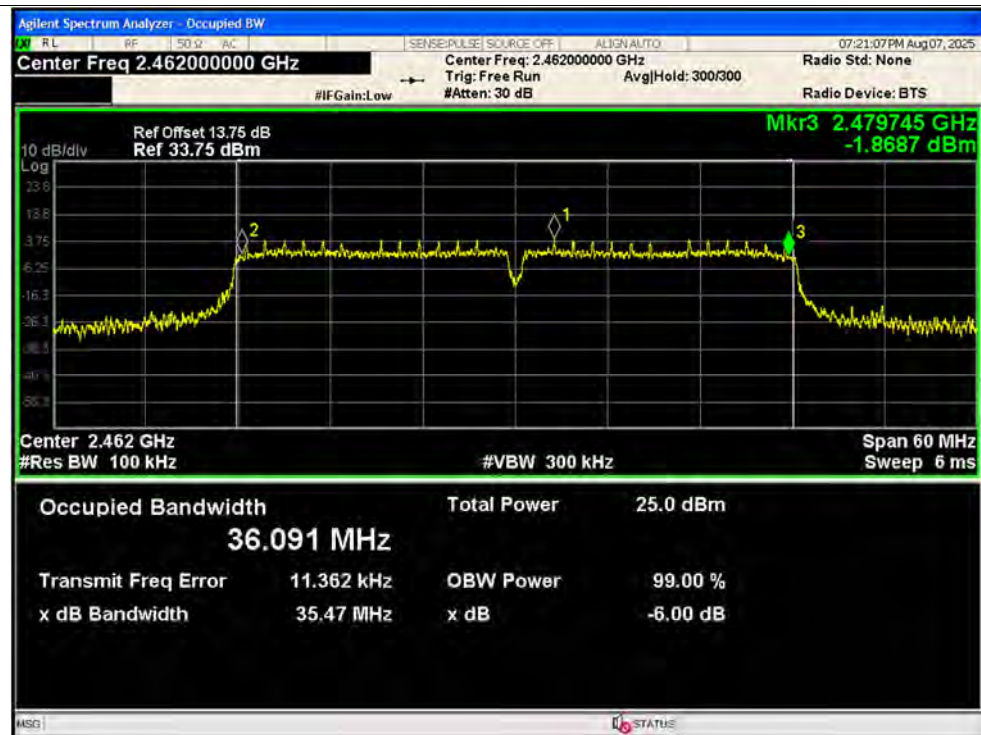
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2442MHz Ant1



-6dB Bandwidth NVNT n40 2462MHz Ant1



**A.5. Conducted Spurious Emissions**

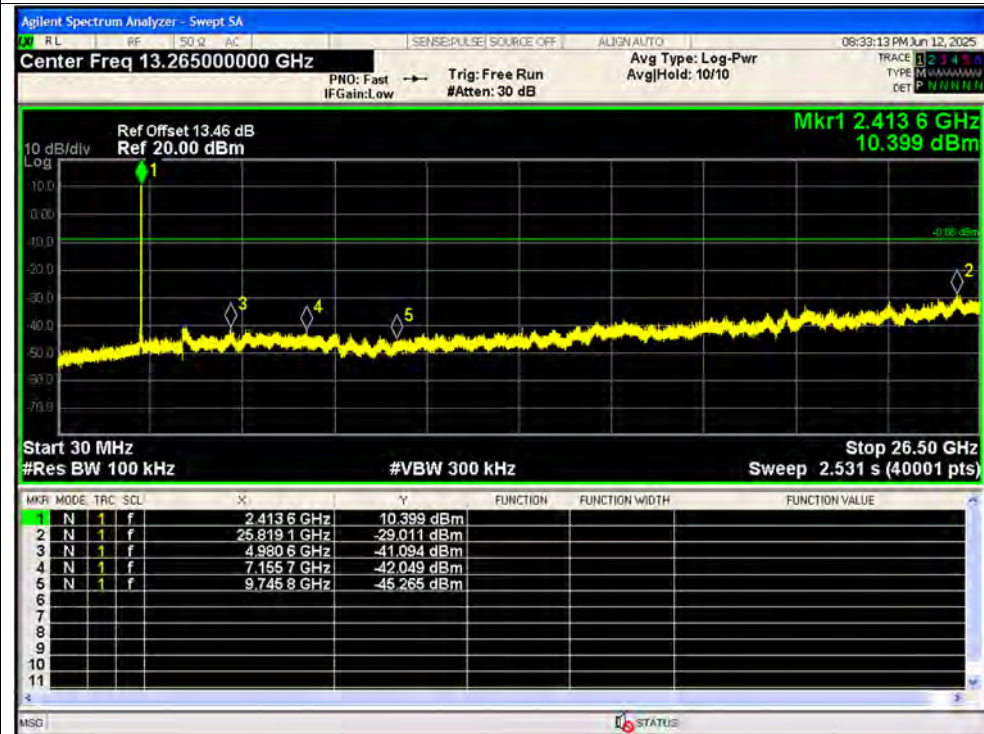
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.15	-20	Pass
NVNT	b	2442	Ant1	-40.69	-20	Pass
NVNT	b	2472	Ant1	-39.74	-20	Pass
NVNT	g	2412	Ant1	-36.02	-20	Pass
NVNT	g	2442	Ant1	-34.5	-20	Pass
NVNT	g	2472	Ant1	-35.4	-20	Pass
NVNT	n20	2412	Ant1	-35.52	-20	Pass
NVNT	n20	2442	Ant1	-36.49	-20	Pass
NVNT	n20	2472	Ant1	-36.63	-20	Pass
NVNT	n40	2422	Ant1	-33.75	-20	Pass
NVNT	n40	2442	Ant1	-34.11	-20	Pass
NVNT	n40	2462	Ant1	-33.79	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



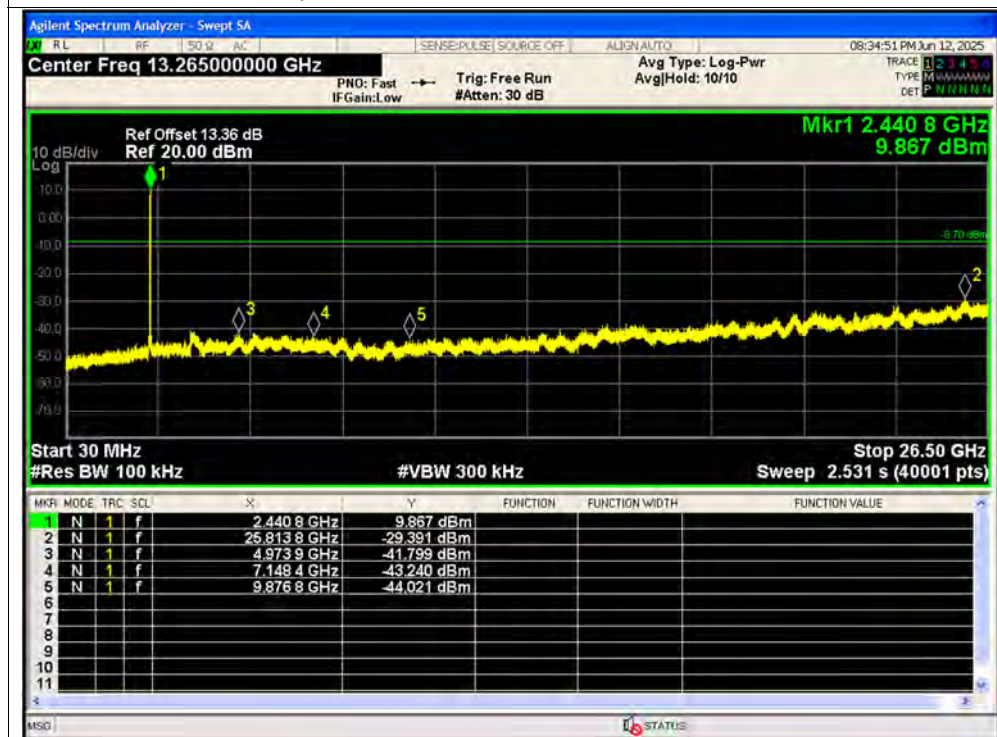
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2442MHz Ant1 Ref



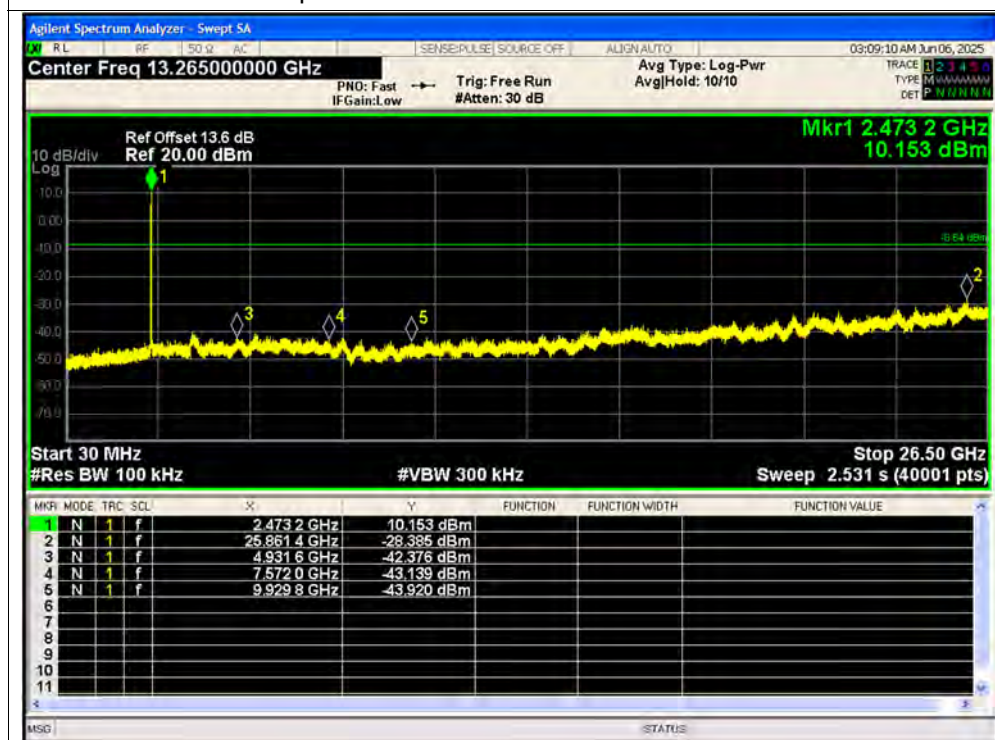
Tx. Spurious NVNT b 2442MHz Ant1 Emission



Tx. Spurious NVNT b 2472MHz Ant1 Ref



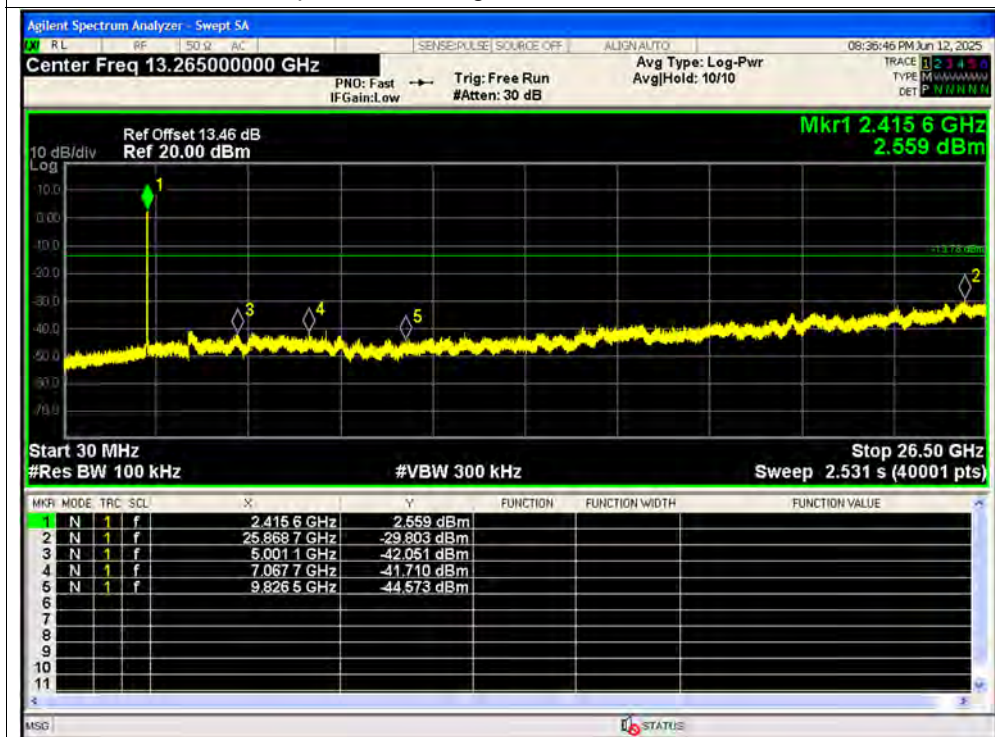
Tx. Spurious NVNT b 2472MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref



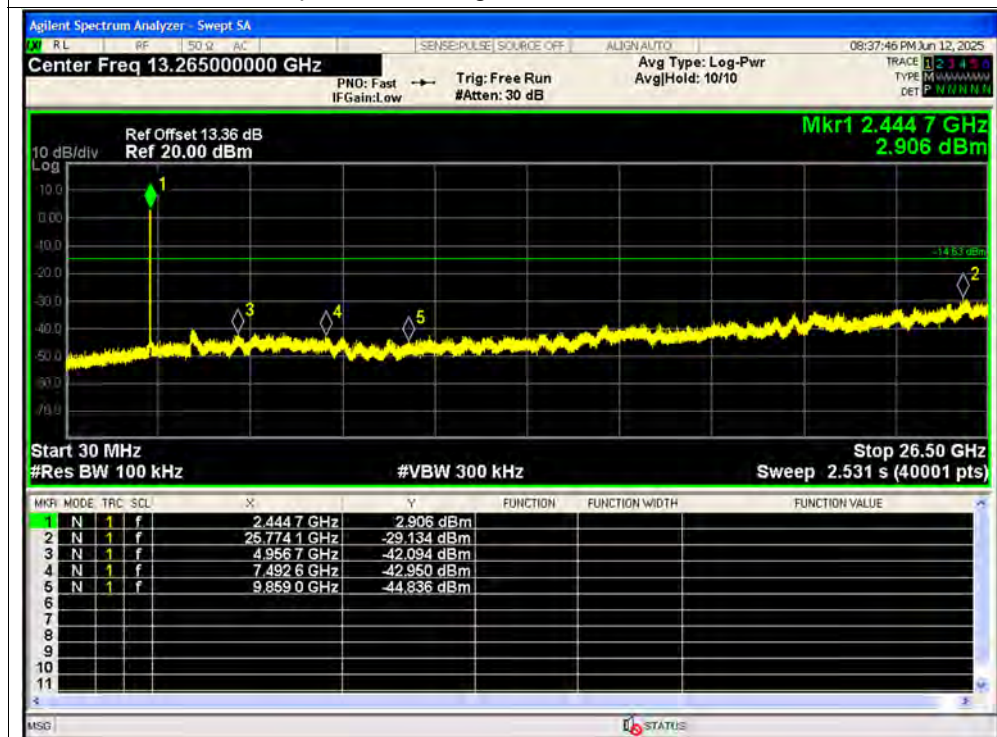
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2442MHz Ant1 Ref



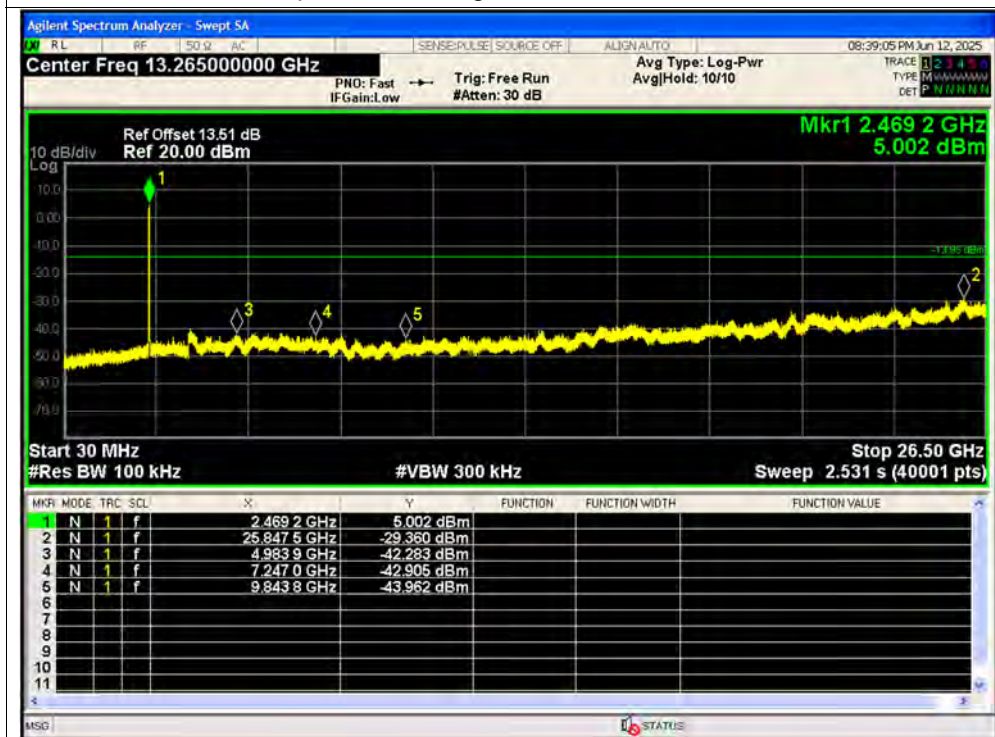
Tx. Spurious NVNT g 2442MHz Ant1 Emission



Tx. Spurious NVNT g 2472MHz Ant1 Ref



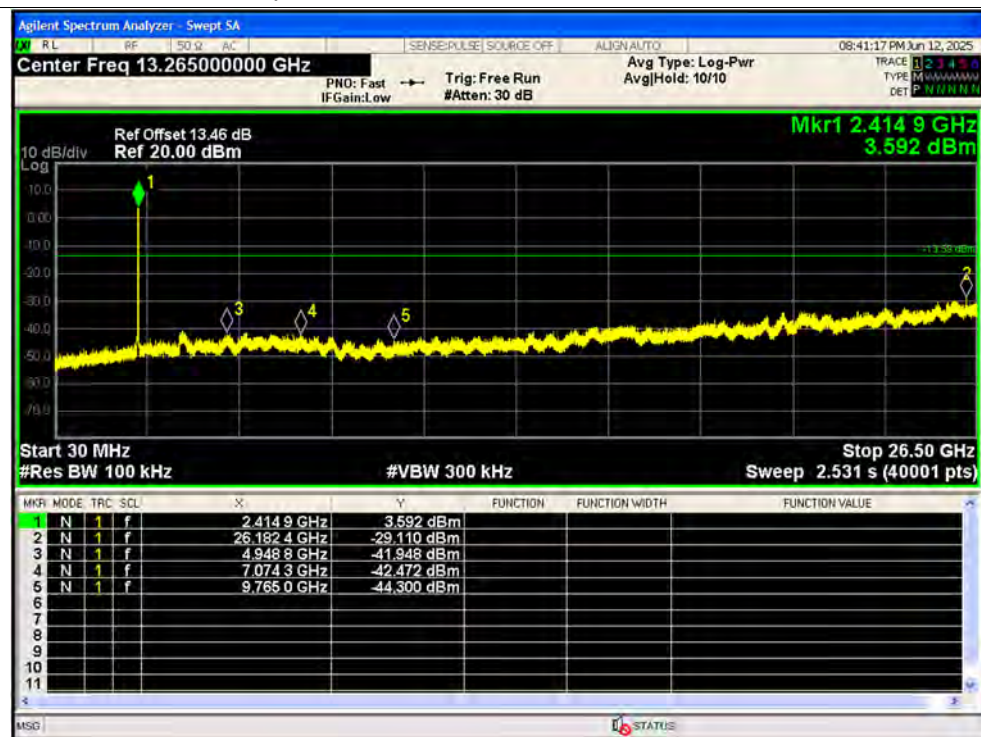
Tx. Spurious NVNT g 2472MHz Ant1 Emission



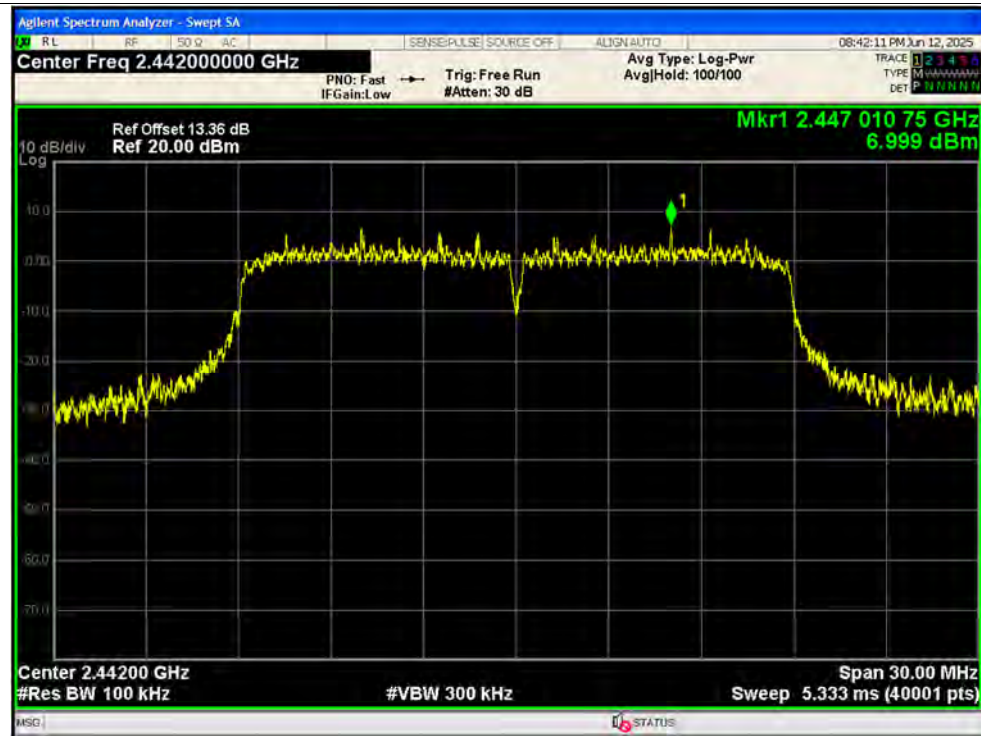
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



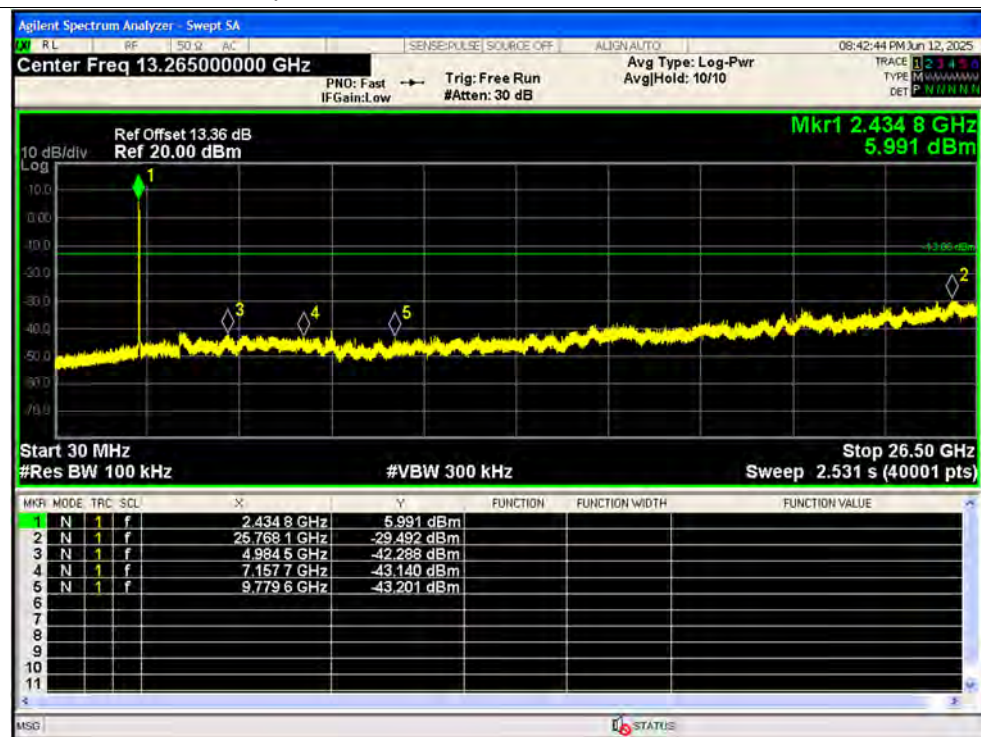
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



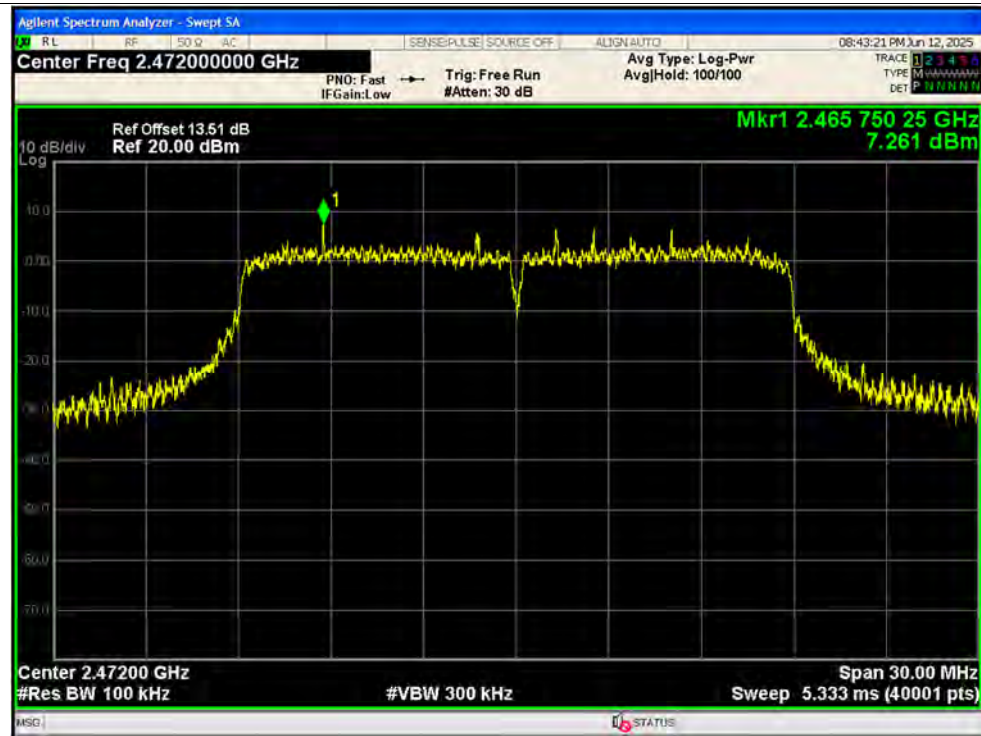
Tx. Spurious NVNT n20 2442MHz Ant1 Ref



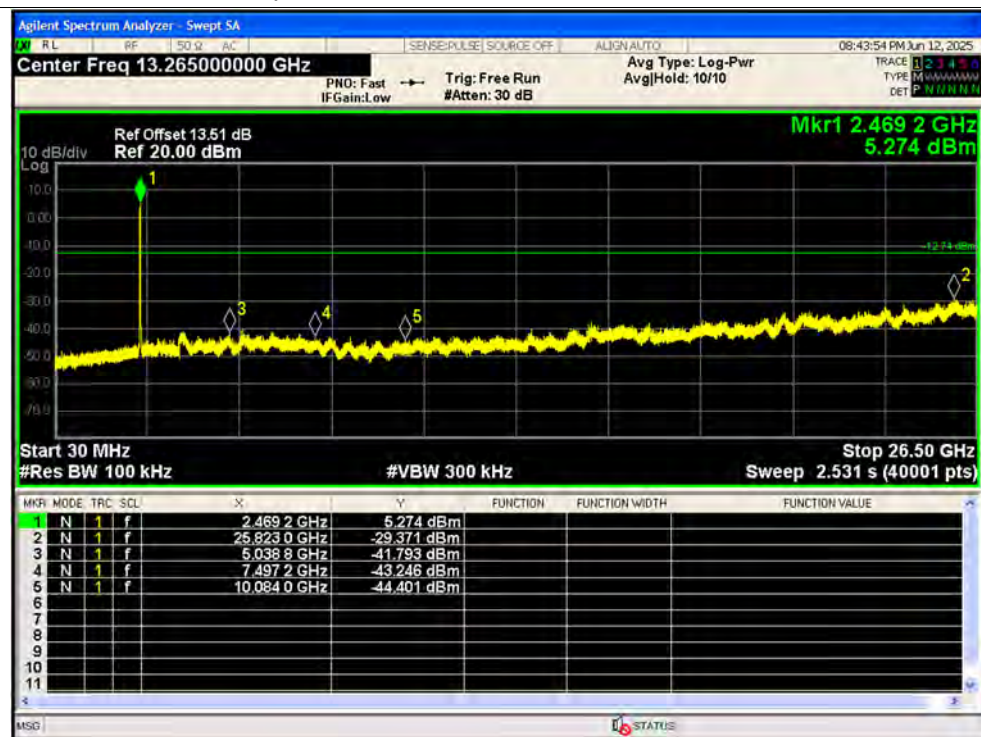
Tx. Spurious NVNT n20 2442MHz Ant1 Emission



Tx. Spurious NVNT n20 2472MHz Ant1 Ref



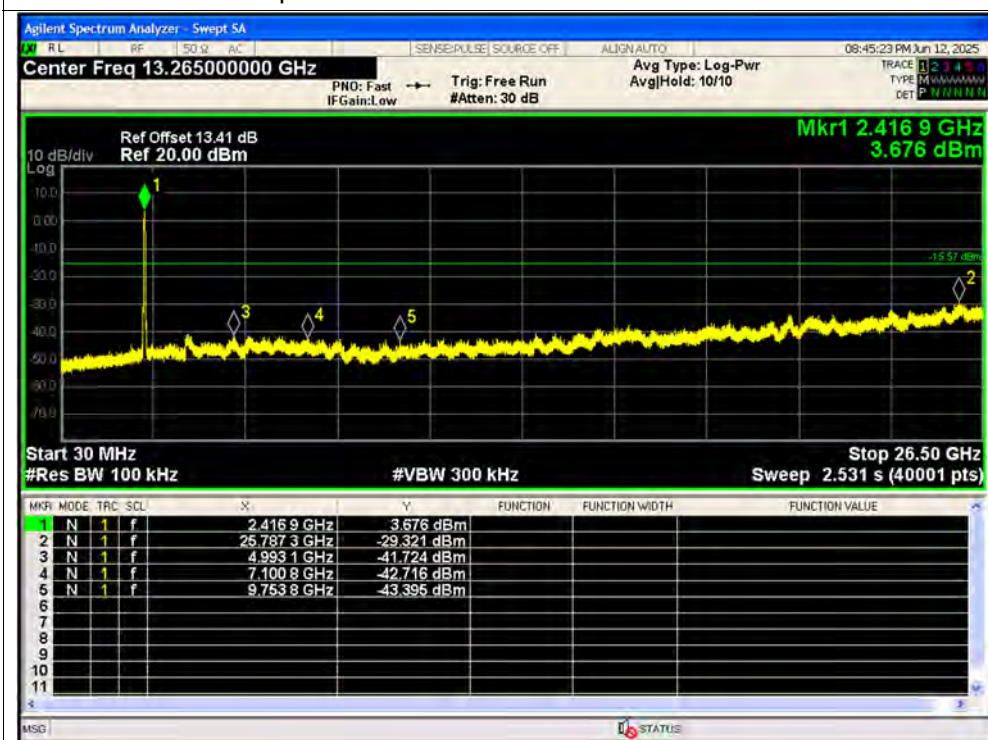
Tx. Spurious NVNT n20 2472MHz Ant1 Emission



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



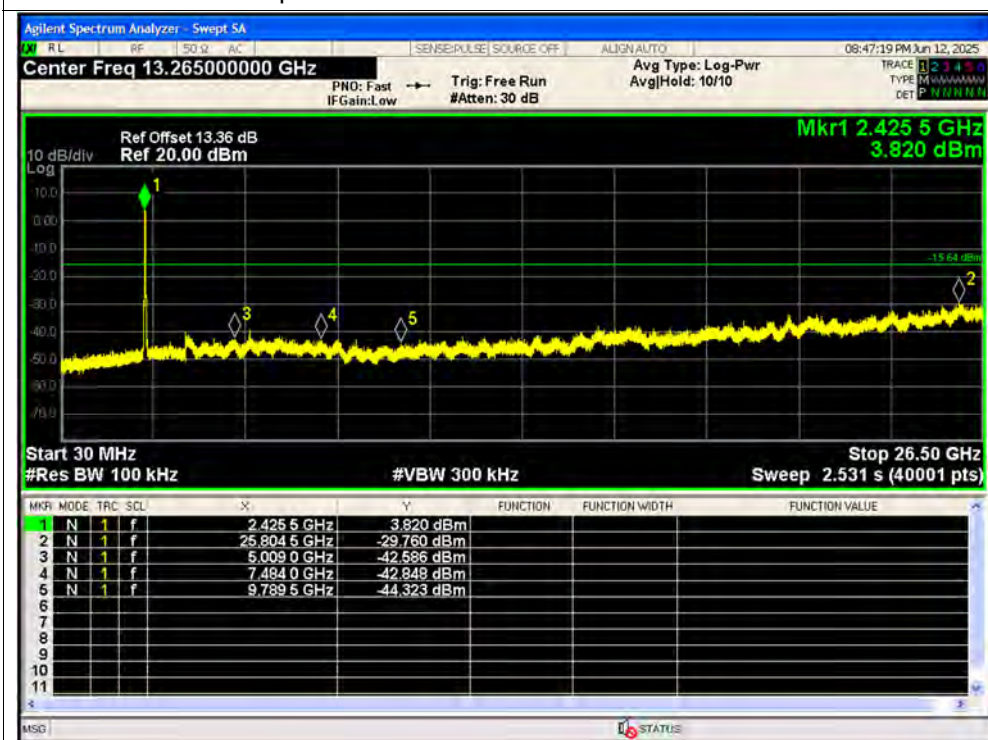
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



Tx. Spurious NVNT n40 2442MHz Ant1 Ref



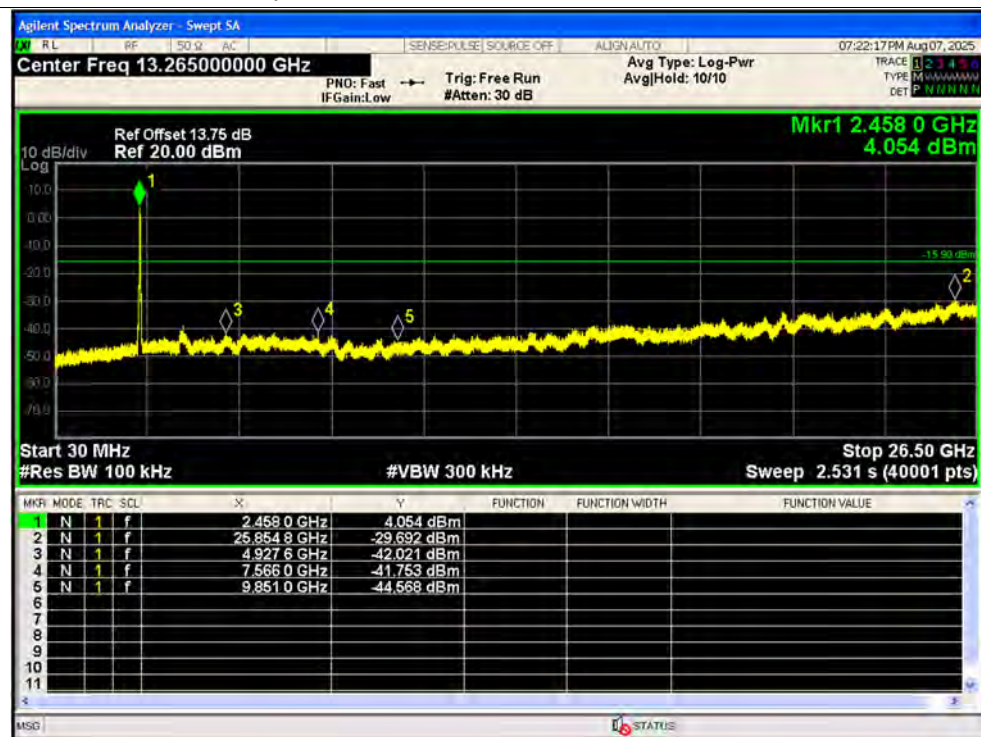
Tx. Spurious NVNT n40 2442MHz Ant1 Emission



Tx. Spurious NVNT n40 2462MHz Ant1 Ref



Tx. Spurious NVNT n40 2462MHz Ant1 Emission

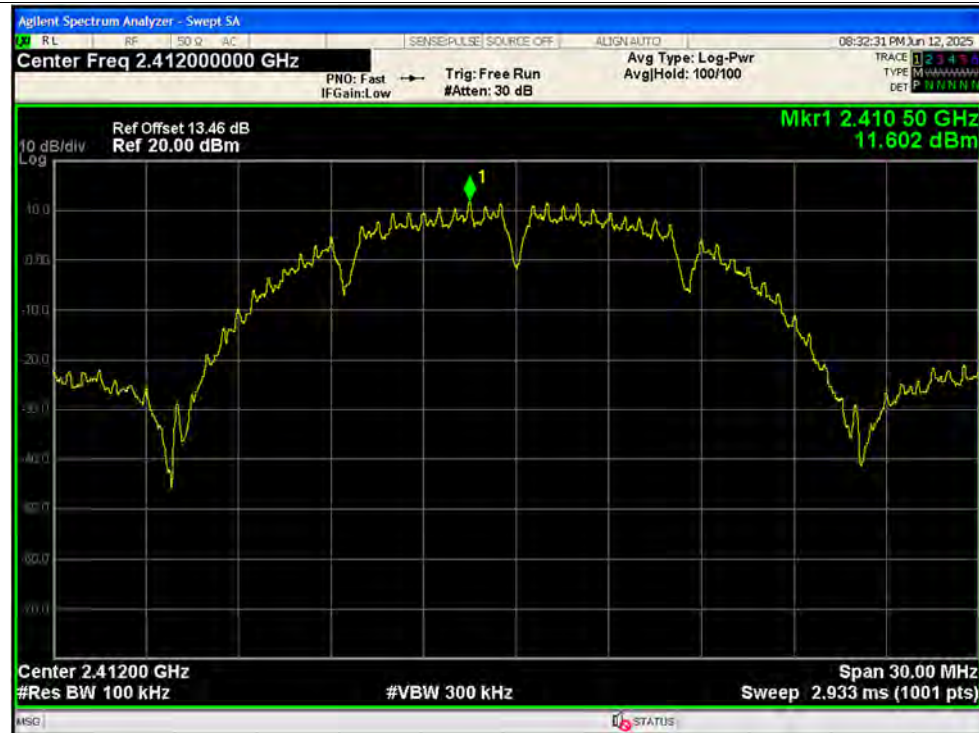


**A.6. Band Edge**

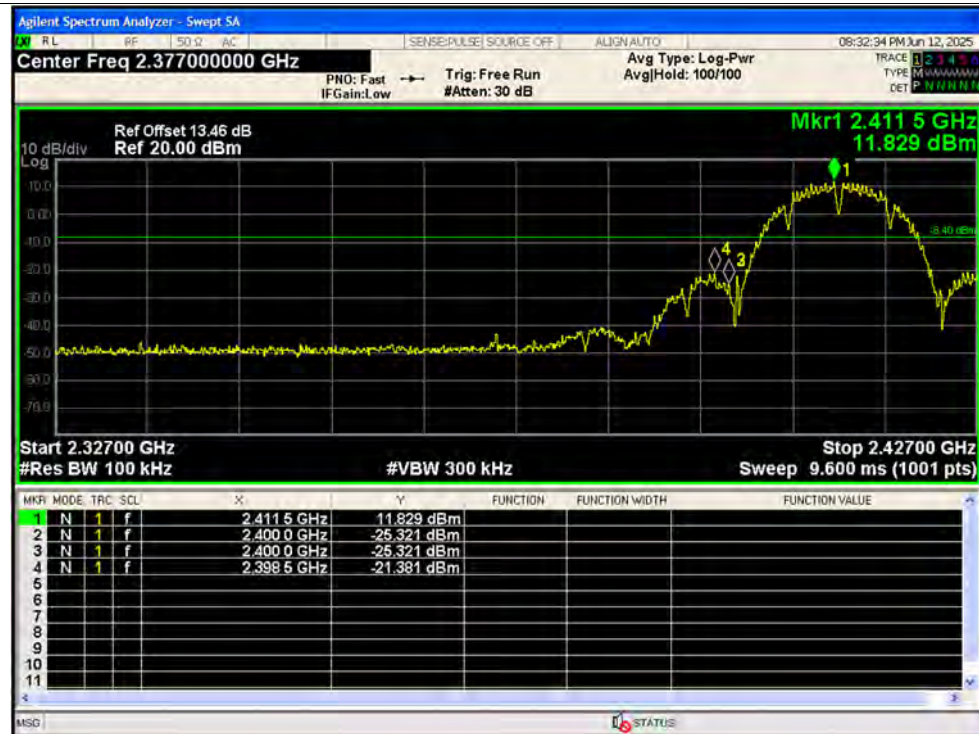
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-32.98	-20	Pass
NVNT	b	2472	Ant1	-34.12	-20	Pass
NVNT	g	2412	Ant1	-33.3	-20	Pass
NVNT	g	2472	Ant1	-32.42	-20	Pass
NVNT	n20	2412	Ant1	-30.32	-20	Pass
NVNT	n20	2472	Ant1	-29.39	-20	Pass
NVNT	n40	2422	Ant1	-27.36	-20	Pass
NVNT	n40	2462	Ant1	-24.25	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2472MHz Ant1 Ref



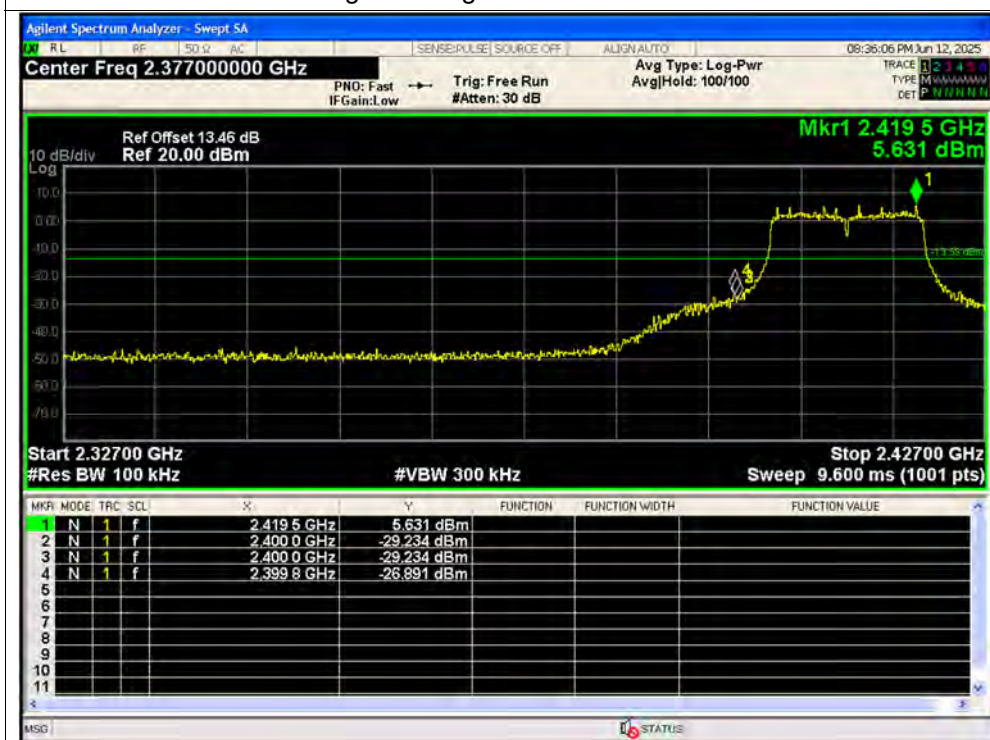
Band Edge NVNT b 2472MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



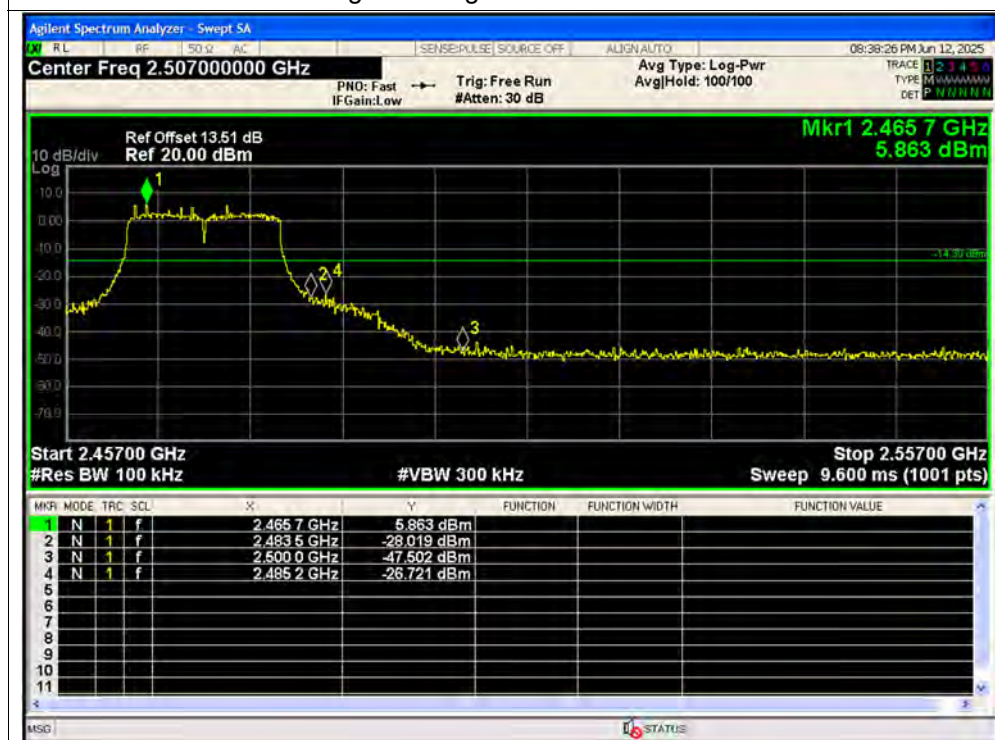
Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2472MHz Ant1 Ref



Band Edge NVNT g 2472MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2472MHz Ant1 Ref



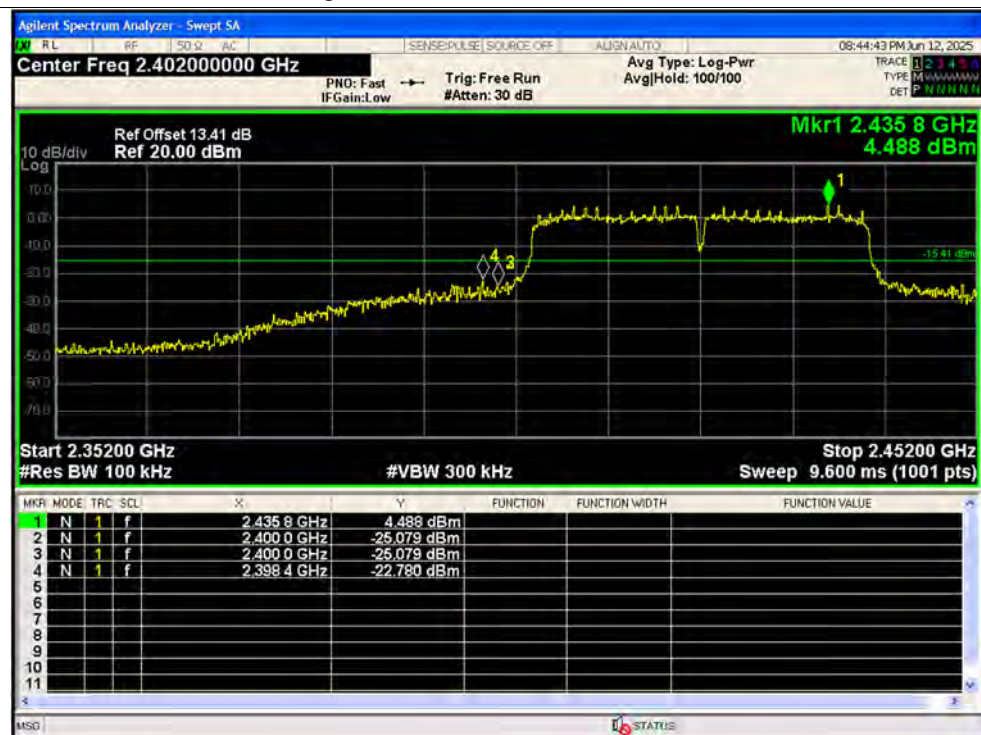
Band Edge NVNT n20 2472MHz Ant1 Emission



Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2462MHz Ant1 Ref



Band Edge NVNT n40 2462MHz 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	b	2412	Ant1	-2.61	0	-2.61	8	Pass
NVNT	b	2442	Ant1	-1.84	0	-1.84	8	Pass
NVNT	b	2472	Ant1	-2.85	0	-2.85	8	Pass
NVNT	g	2412	Ant1	-8.83	0	-8.83	8	Pass
NVNT	g	2442	Ant1	-9.3	0	-9.3	8	Pass
NVNT	g	2472	Ant1	-9.32	0	-9.32	8	Pass
NVNT	n20	2412	Ant1	-7.65	0	-7.65	8	Pass
NVNT	n20	2442	Ant1	-7.65	0	-7.65	8	Pass
NVNT	n20	2472	Ant1	-7.64	0	-7.64	8	Pass
NVNT	n40	2422	Ant1	-10.64	0	-10.64	8	Pass
NVNT	n40	2442	Ant1	-10.69	0	-10.69	8	Pass
NVNT	n40	2462	Ant1	-10.71	0	-10.71	8	Pass



Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2442MHz Ant1

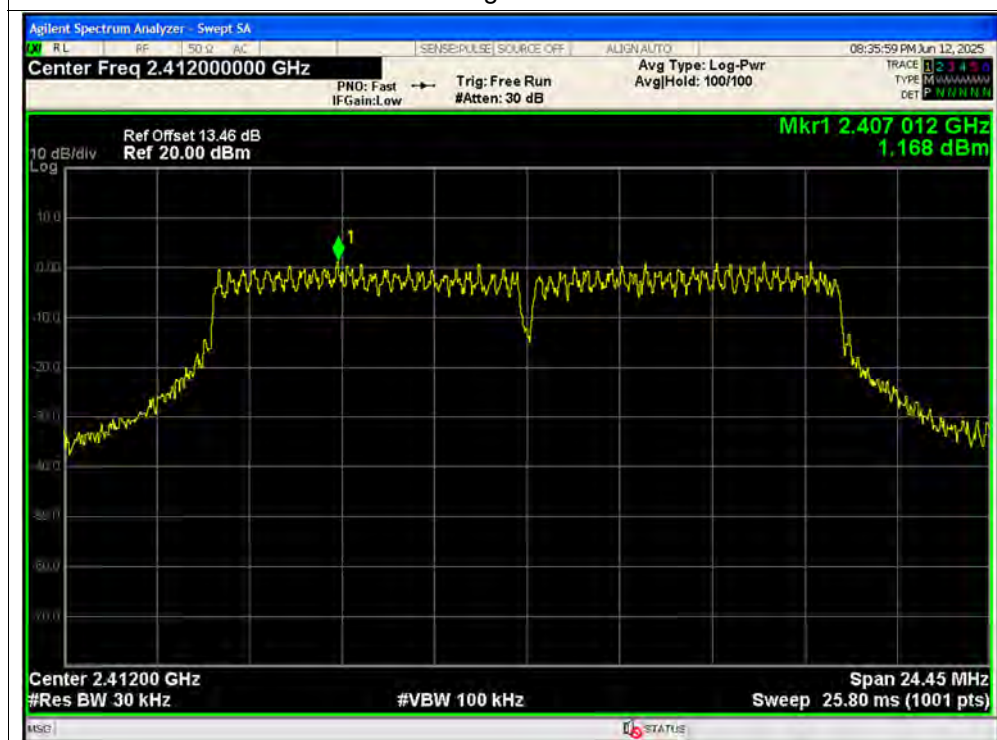




PSD NVNT b 2472MHz Ant1



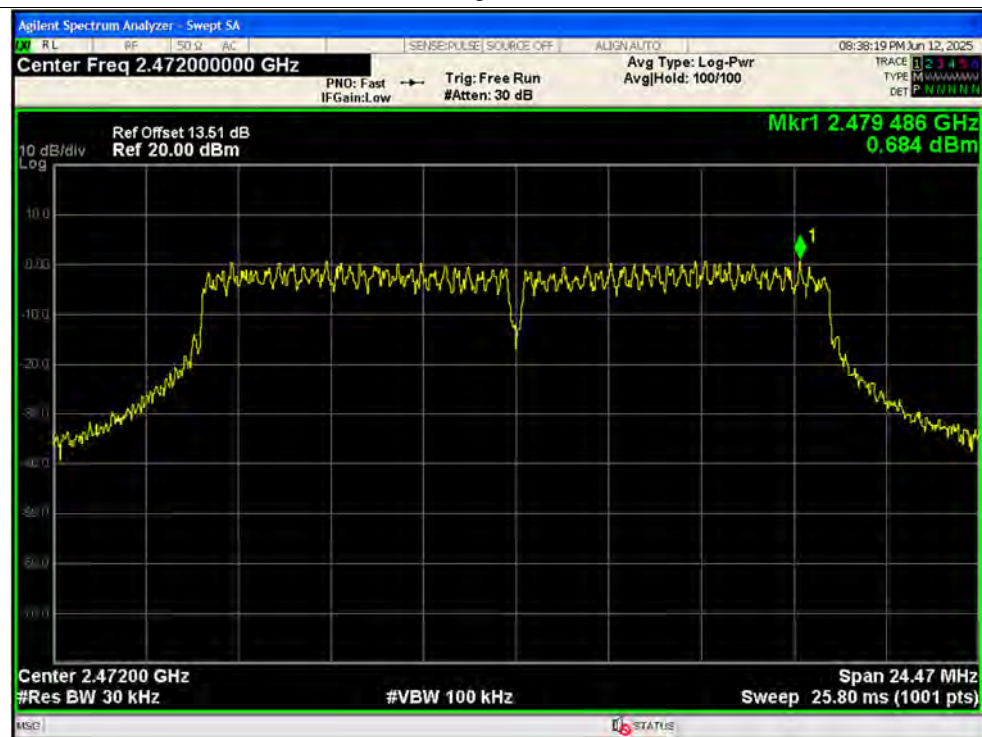
PSD NVNT g 2412MHz Ant1



PSD NVNT g 2442MHz Ant1



PSD NVNT g 2472MHz Ant1

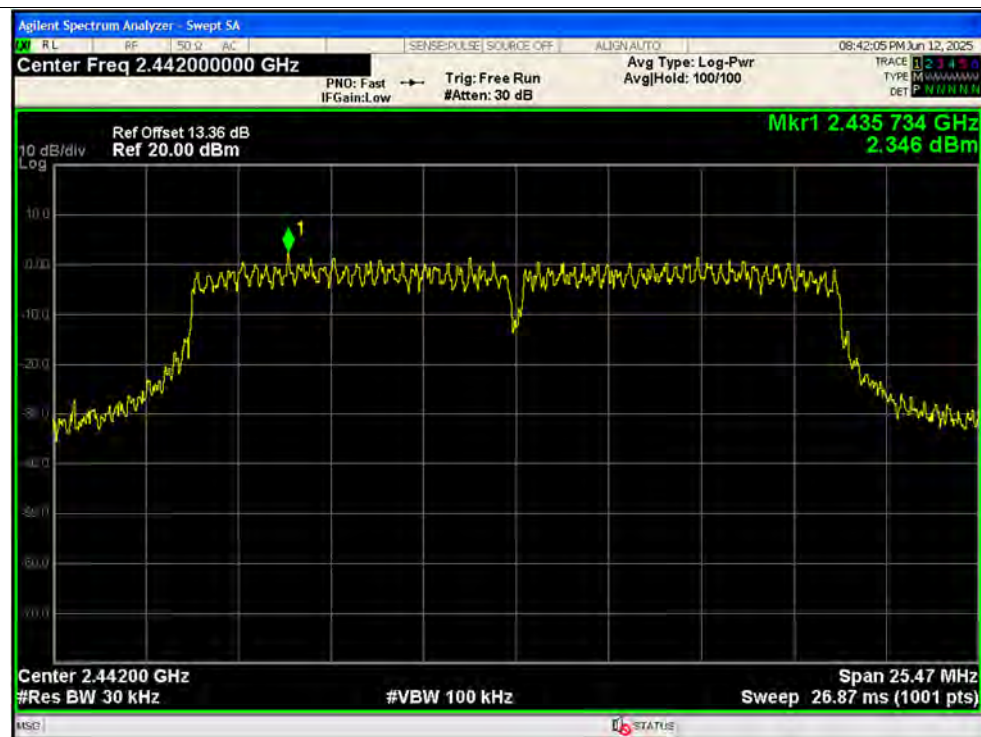




PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2442MHz Ant1



PSD NVNT n20 2472MHz Ant1



PSD NVNT n40 2422MHz Ant1





PSD NVNT n40 2442MHz Ant1



PSD NVNT n40 2462MHz 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+Adapter+Mobile Phone+WIFI TX

Test voltage: AC 120V/60Hz

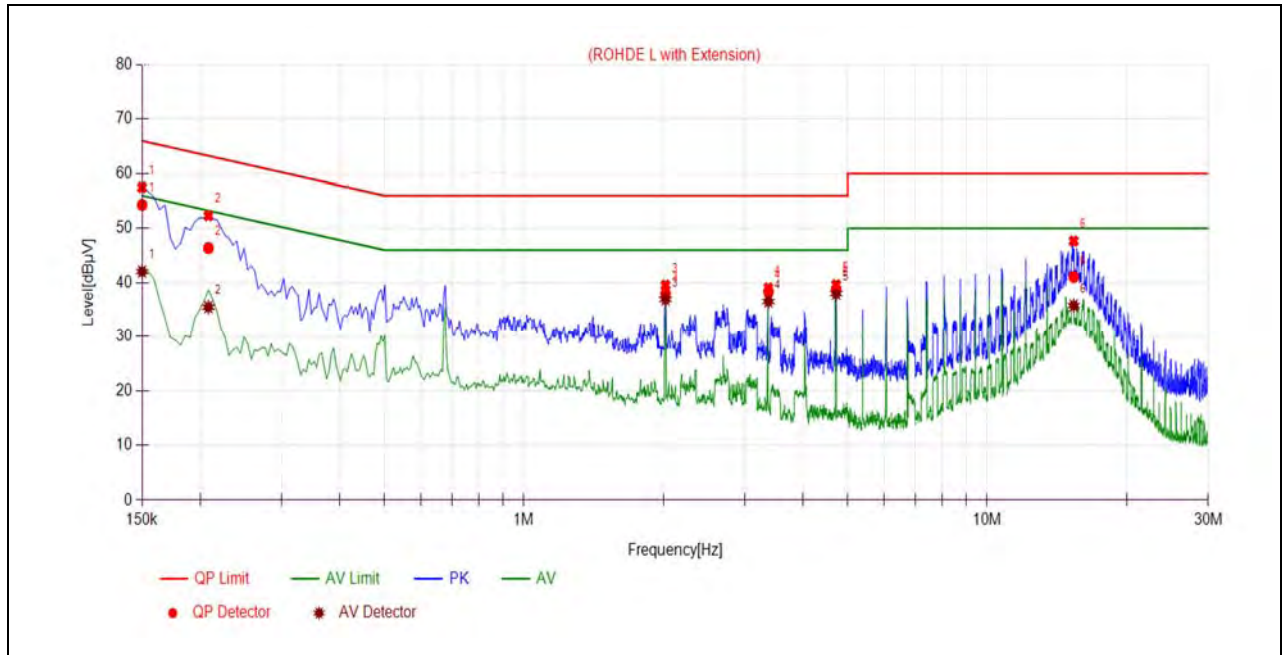
The measurement results are obtained as below:

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

U_R : Receiver Reading

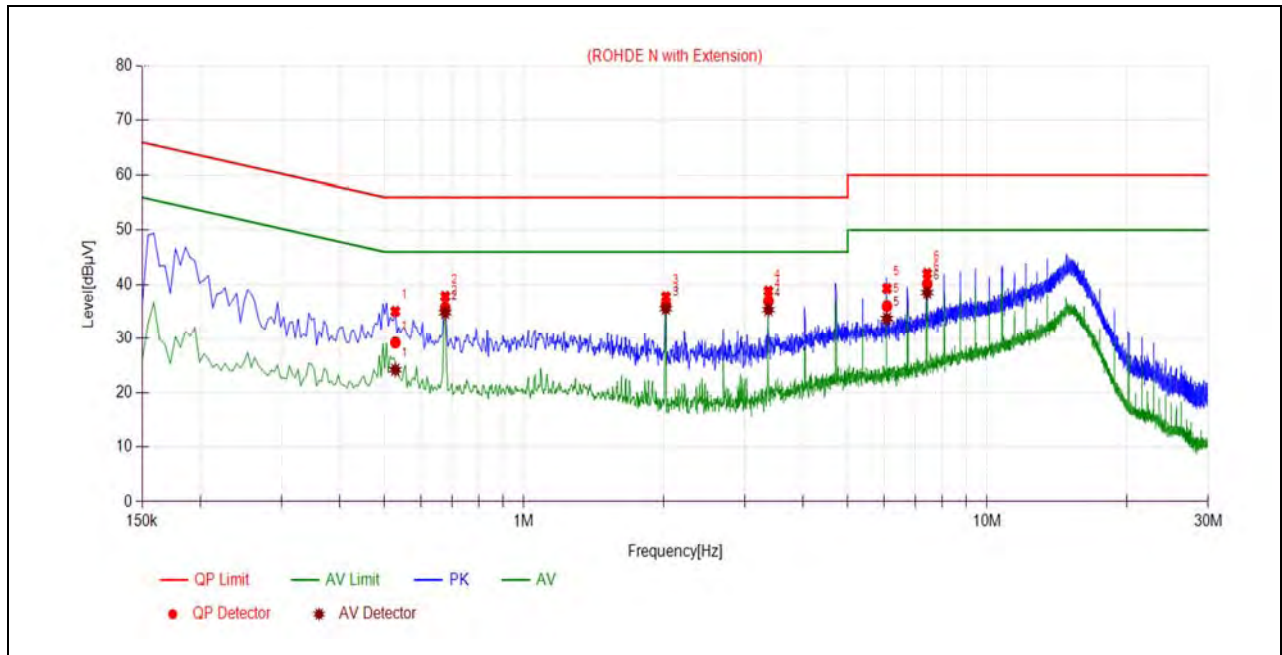
A_{Factor} : Voltage division factor of LISN

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	54.31	42.07	66.00	56.00	Line	PASS
2	0.2085	46.39	35.50	63.27	53.27		PASS
3	2.0219	37.98	36.93	56.00	46.00		PASS
4	3.3720	38.36	36.54	56.00	46.00		PASS
5	4.7217	38.72	38.00	56.00	46.00		PASS
6	15.3744	41.06	35.80	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.5280	29.23	24.17	56.00	24.17	Neutral	PASS
2	0.6764	35.79	34.84	56.00	34.84		PASS
3	2.0263	36.29	35.57	56.00	35.57		PASS
4	3.3721	37.01	35.38	56.00	35.38		PASS
5	6.0768	36.05	33.77	60.00	33.77		PASS
6	7.4219	40.14	38.55	60.00	38.55		PASS

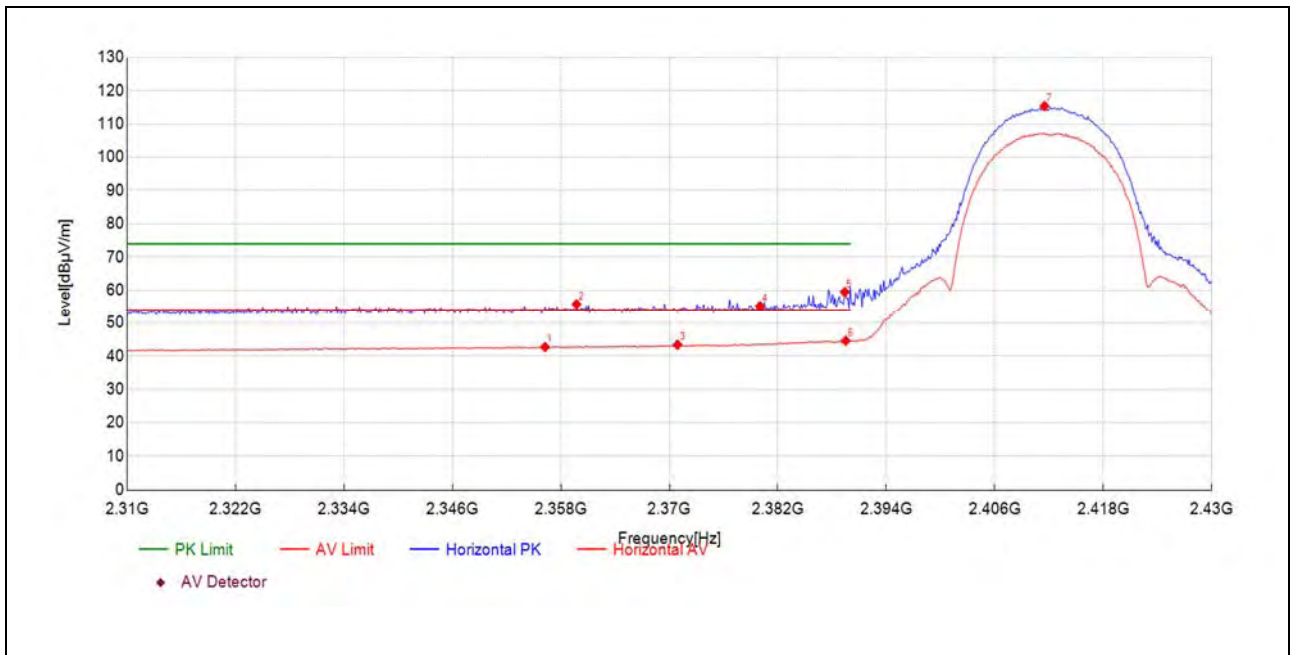
A.9. Restricted Frequency Bands

Note 1: 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.

Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11b Mode

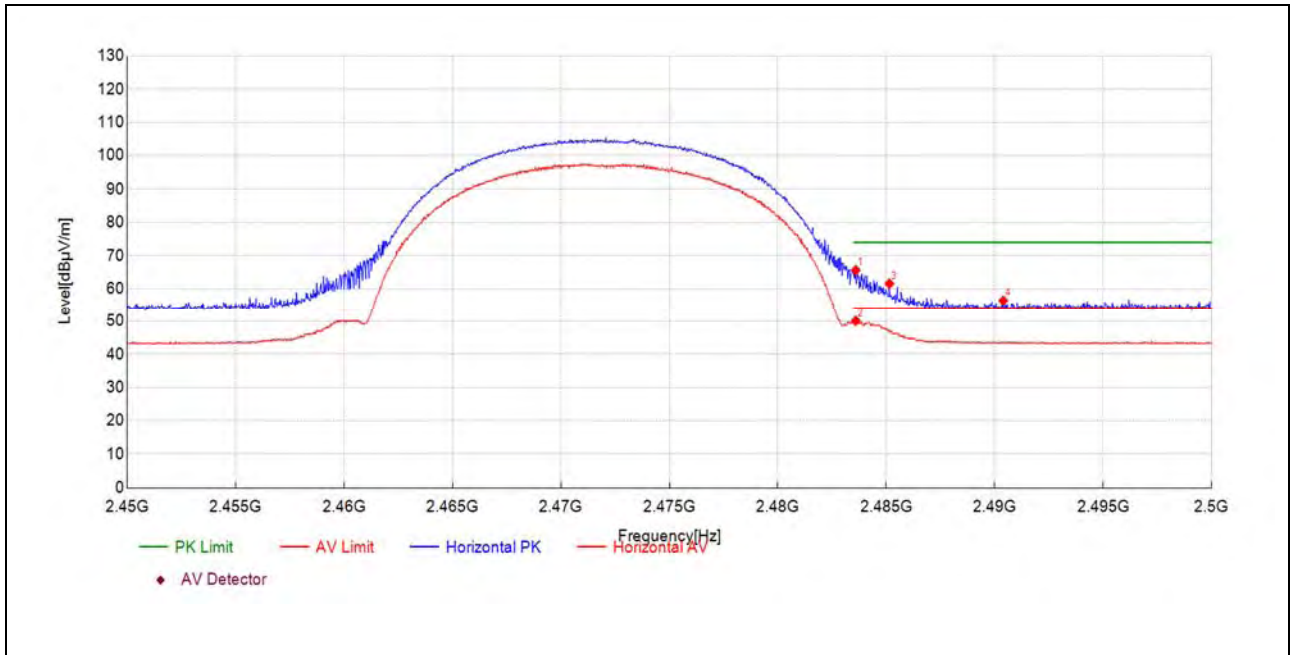
Plot for Channel 1



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2356.25	10.3	42.70	32.420	54.00	11.30	150	97	AV	PASS
2359.73	23.3	55.78	32.440	74.00	18.22	150	112	PK	PASS
2370.90	10.9	43.38	32.470	54.00	10.62	150	126	AV	PASS
2380.03	22.7	55.20	32.510	74.00	18.80	150	263	PK	PASS
2389.40	26.9	59.46	32.540	74.00	14.54	150	112	PK	PASS
2389.52	12.0	44.58	32.540	54.00	9.42	150	126	AV	PASS
2411.50	82.7	115.38	32.700	-	-	150	126	PK	NA



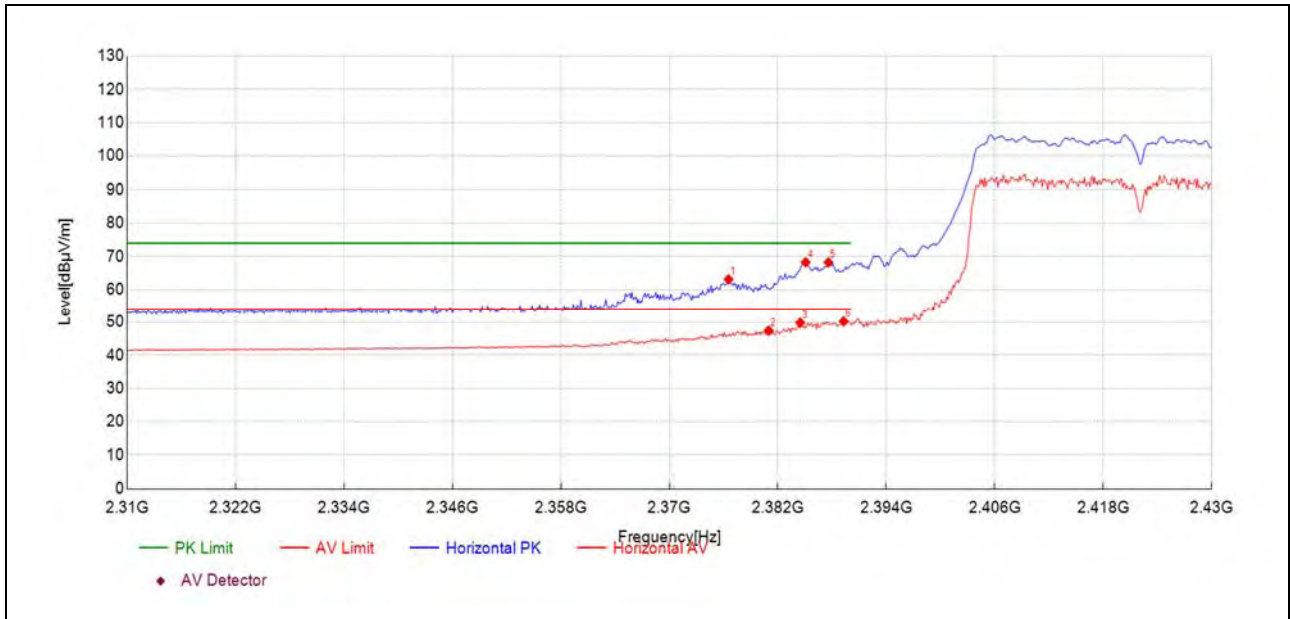
Plot for Channel 13



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.59	32.6	65.59	33.030	74.00	8.41	150	123	PK	PASS
2483.59	17.0	50.07	33.030	54.00	3.93	150	138	AV	PASS
2485.14	28.5	61.54	33.030	74.00	12.46	150	123	PK	PASS
2490.40	23.4	56.40	33.020	74.00	17.60	150	123	PK	PASS

**802.11n (HT40) Mode**

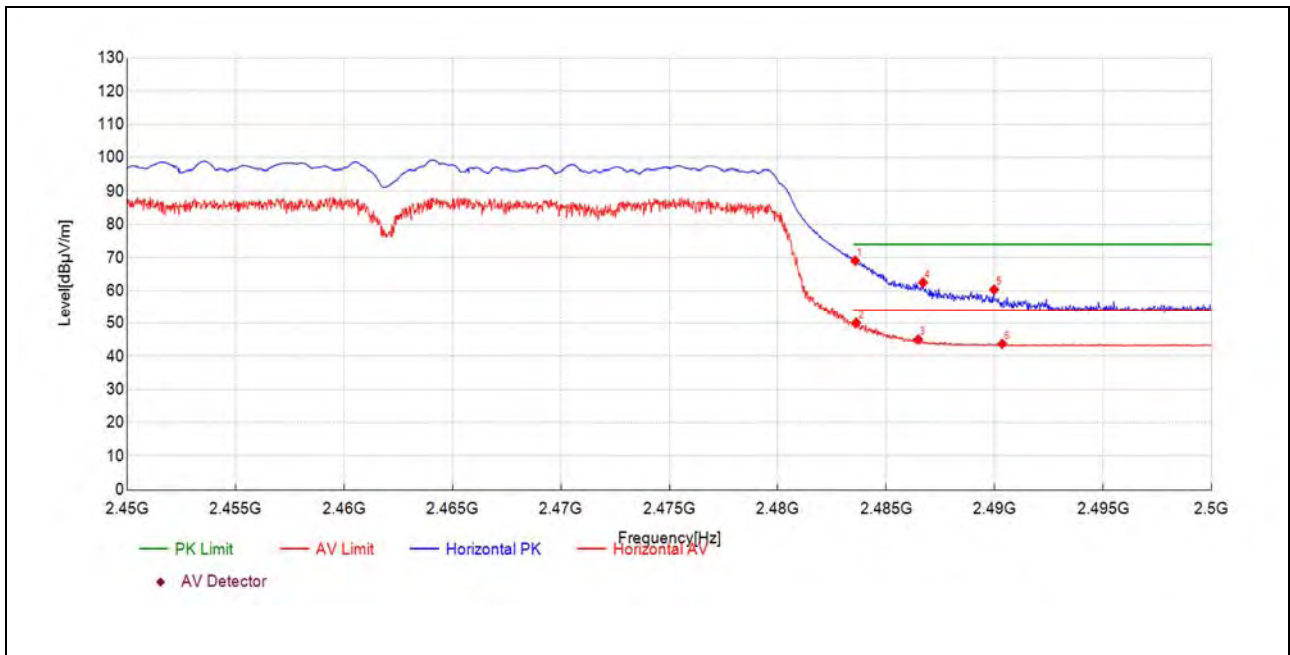
Plot for Channel 3



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2376.55	30.6	63.09	32.490	74.00	10.91	150	138	PK	PASS
2380.99	14.9	47.39	32.510	54.00	6.61	150	138	AV	PASS
2384.47	17.3	49.80	32.530	54.00	4.20	150	124	AV	PASS
2385.08	35.7	68.23	32.530	74.00	5.77	150	124	PK	PASS
2387.60	35.7	68.19	32.540	74.00	5.81	150	138	PK	PASS
2389.28	17.7	50.19	32.540	54.00	3.81	150	138	AV	PASS



Plot for Channel 11



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.57	36.1	69.08	33.030	74.00	4.92	150	133	PK	PASS
2483.62	17.1	50.08	33.030	54.00	3.92	150	140	AV	PASS
2486.47	12.0	45.02	33.030	54.00	8.98	150	133	AV	PASS
2486.69	29.4	62.47	33.030	74.00	11.53	150	126	PK	PASS
2489.97	27.3	60.32	33.020	74.00	13.68	150	133	PK	PASS
2490.35	10.7	43.74	33.020	54.00	10.26	150	133	AV	PASS



A.10. Radiated Emission

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

The measurement results are obtained as below:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

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

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

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

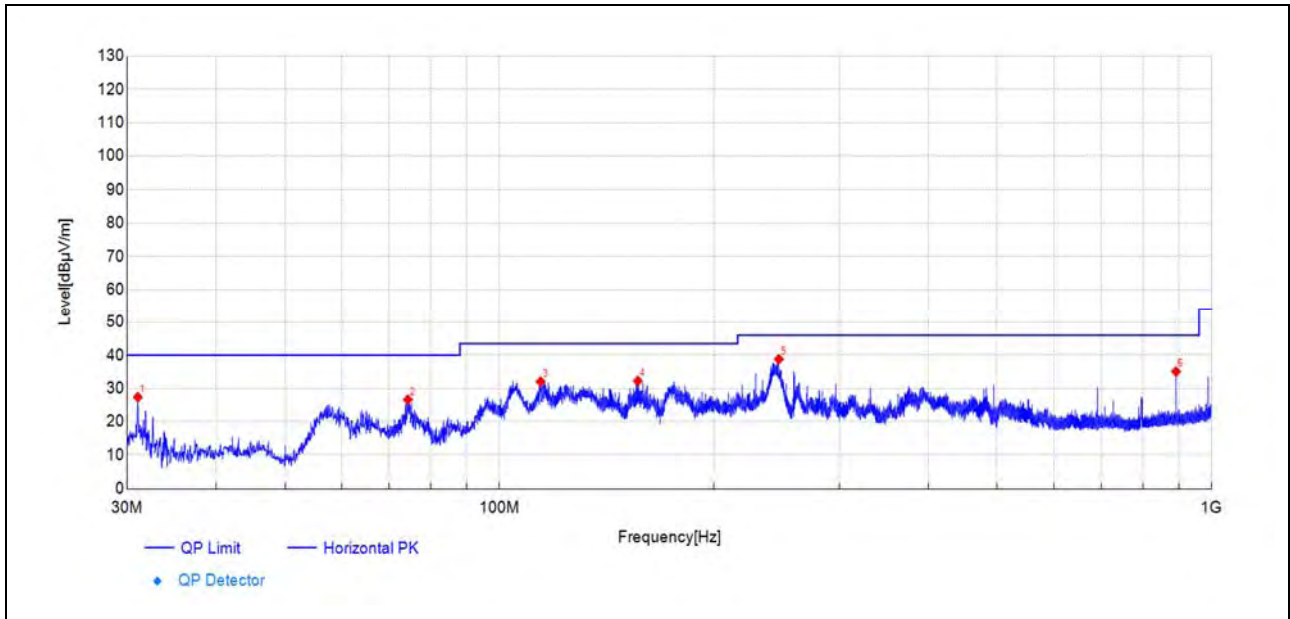
Note3: For the frequency, which started from 18GHz to 40GHz harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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



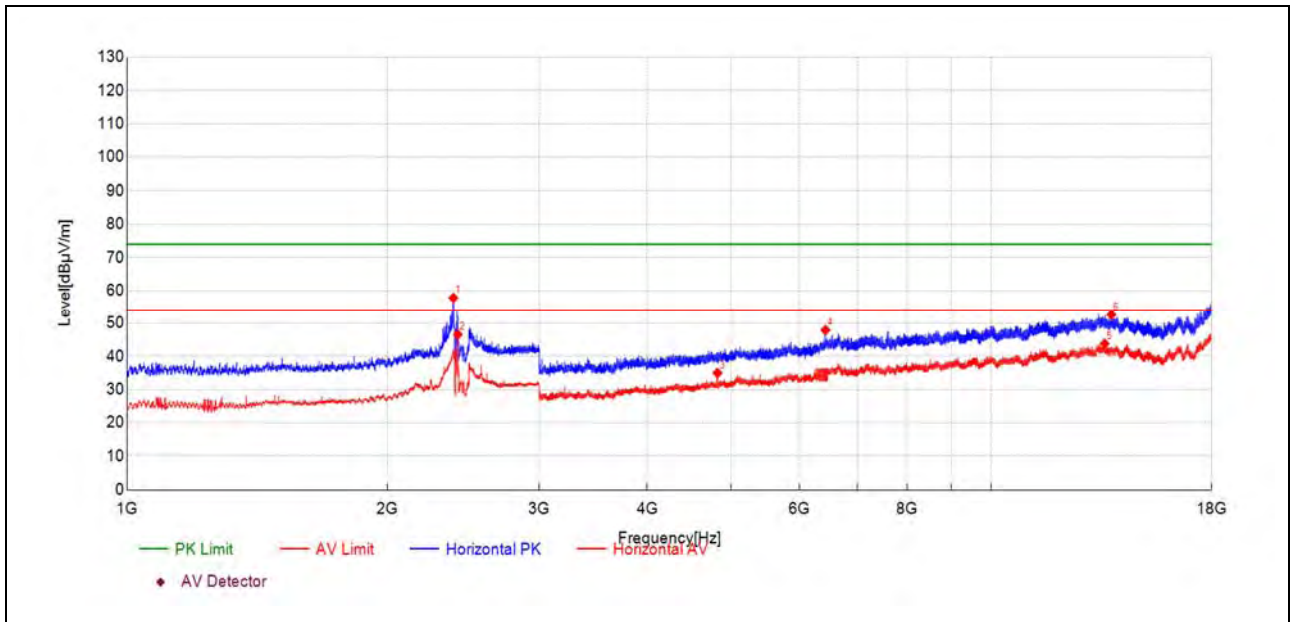
802.11b Mode

Plot for Channel 1



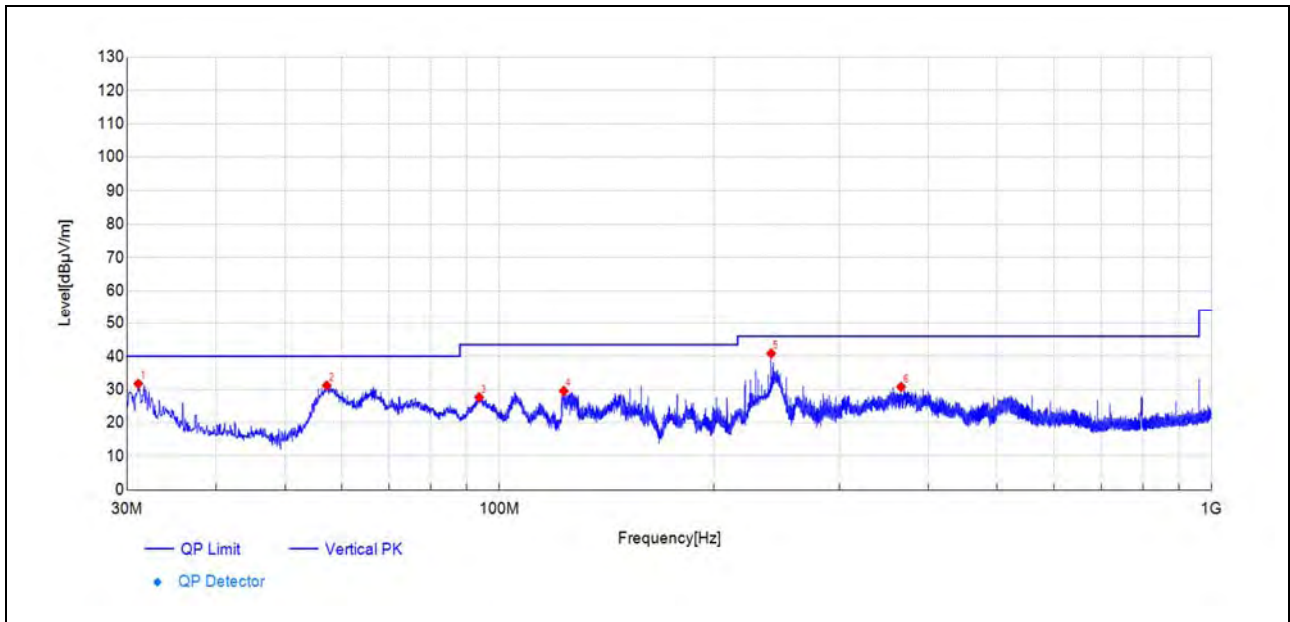
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
31.07	60.3	27.39	-32.900	40.00	12.61	150	352	PK	PASS
74.38	61.7	26.62	-35.090	40.00	13.38	150	130	PK	PASS
114.25	63.5	32.07	-31.400	43.50	11.43	150	120	PK	PASS
156.40	65.3	32.25	-33.000	43.50	11.25	150	100	PK	PASS
246.71	67.0	38.78	-28.220	46.00	7.22	150	7	PK	PASS
891.02	50.2	35.07	-15.130	46.00	10.93	150	160	PK	PASS



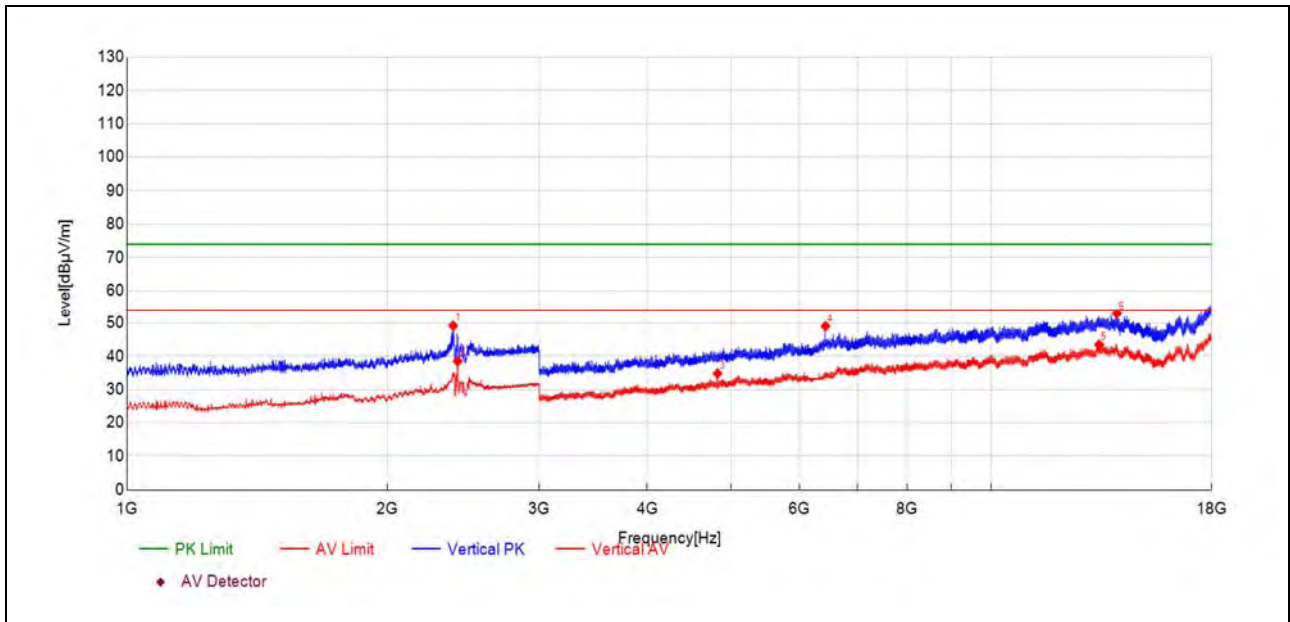
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2386.09	57.1	57.80	0.690	74.00	16.20	150	145	PK	PASS
2414.09	45.7	46.56	0.830	54.00	7.44	150	128	AV	PASS
4823.56	45.5	34.99	-10.550	54.00	19.01	150	52	AV	PASS
6432.11	52.8	47.87	-4.880	74.00	26.13	150	315	PK	PASS
13530.85	39.0	43.77	4.750	54.00	10.23	150	295	AV	PASS
13777.86	47.2	52.53	5.340	74.00	21.47	150	104	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
31.12	64.6	31.72	-32.870	40.00	8.28	150	293	PK	PASS
57.21	61.2	31.20	-29.990	40.00	8.80	150	358	PK	PASS
93.64	58.6	27.69	-30.910	43.50	15.81	150	52	PK	PASS
123.12	62.2	29.54	-32.660	43.50	13.96	150	92	PK	PASS
240.74	69.2	40.83	-28.400	46.00	5.17	150	193	PK	PASS
366.36	56.0	30.80	-25.180	46.00	15.20	150	232	PK	PASS

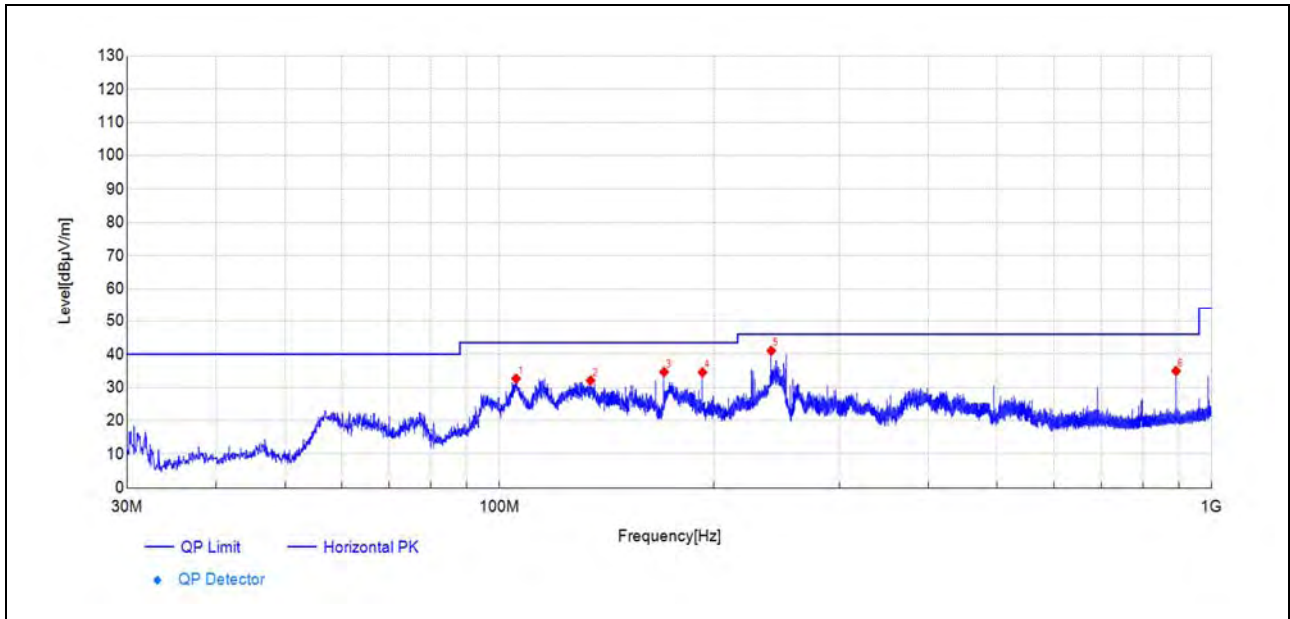


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2385.20	48.5	49.18	0.680	74.00	24.82	150	172	PK	PASS
2413.65	37.7	38.51	0.830	54.00	15.49	150	206	AV	PASS
4823.56	45.4	34.82	-10.550	54.00	19.18	150	140	AV	PASS
6431.61	53.9	49.05	-4.880	74.00	24.95	150	190	PK	PASS
13336.34	38.3	43.49	5.210	54.00	10.51	150	0	AV	PASS
13981.87	47.6	52.90	5.340	74.00	21.10	150	243	PK	PASS

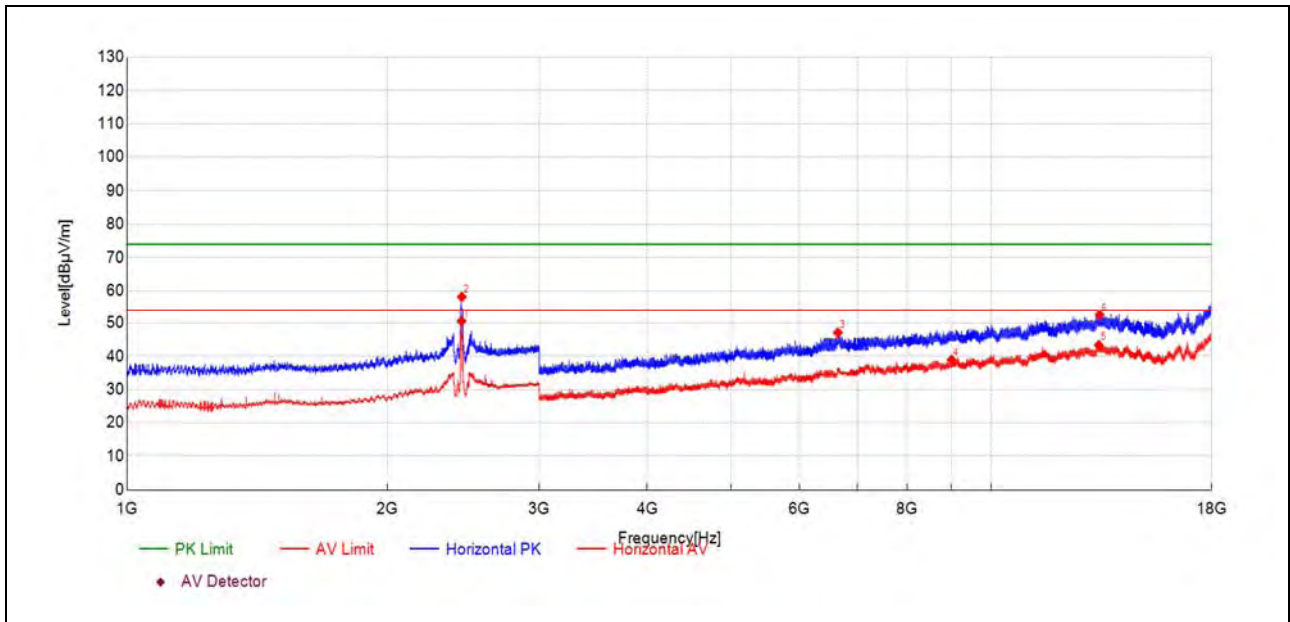


Plot for Channel 7



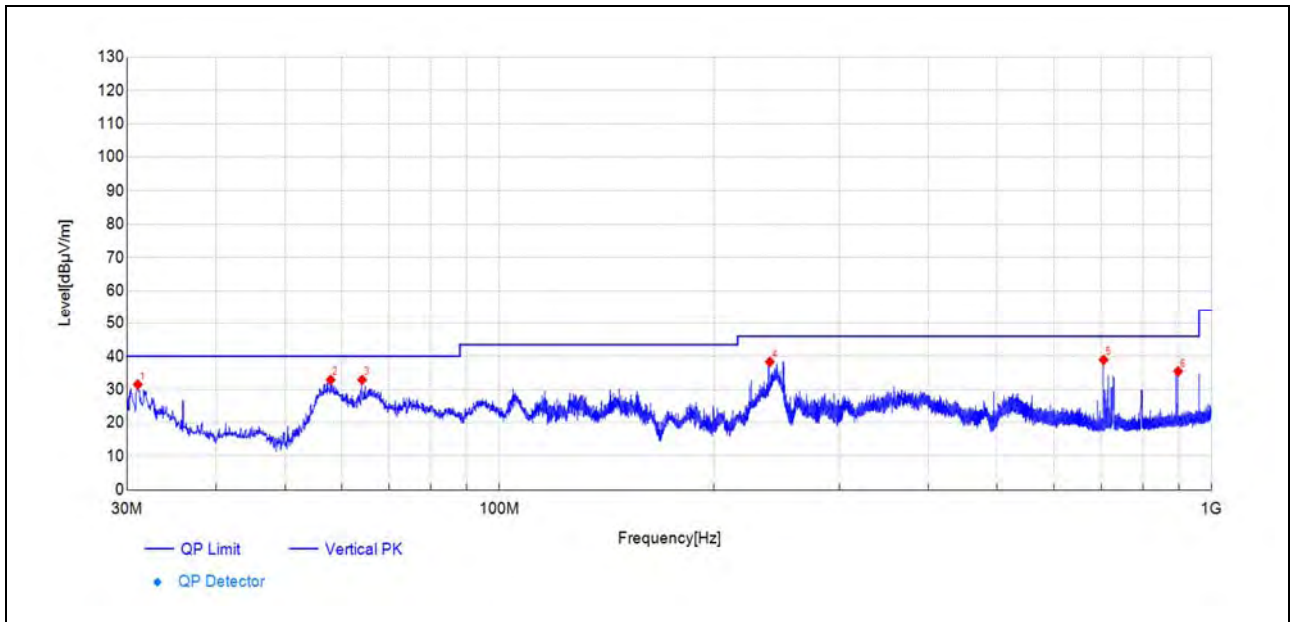
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
105.52	63.1	32.64	-30.420	43.50	10.86	150	131	PK	PASS
134.28	65.6	32.11	-33.470	43.50	11.39	150	111	PK	PASS
170.27	66.9	34.65	-32.270	43.50	8.85	150	60	PK	PASS
192.77	64.1	34.53	-29.600	43.50	8.97	150	232	PK	PASS
240.79	69.4	41.03	-28.390	46.00	4.97	150	359	PK	PASS
891.02	50.1	34.95	-15.130	46.00	11.05	150	162	PK	PASS



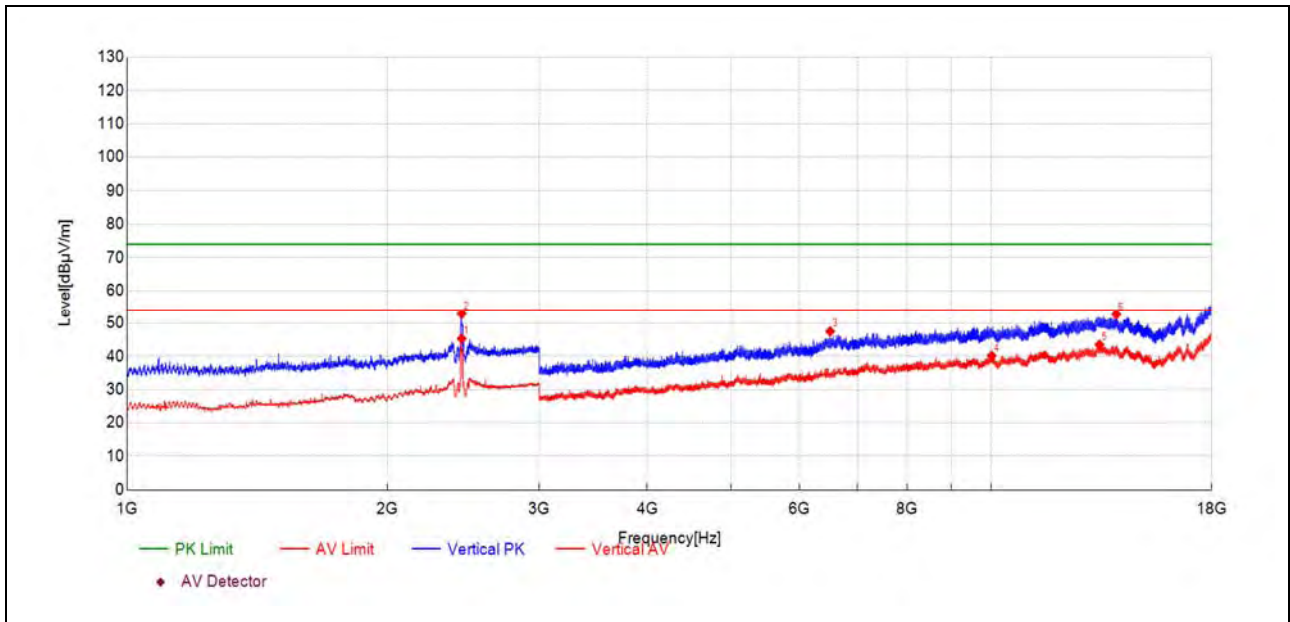
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2438.99	49.6	50.57	1.000	54.00	3.43	150	130	AV	PASS
2440.32	57.2	58.16	1.010	74.00	15.84	150	130	PK	PASS
6649.62	50.8	47.09	-3.740	74.00	26.91	150	191	PK	PASS
9000.20	41.2	38.90	-2.320	54.00	15.10	150	0	AV	PASS
13324.34	38.1	43.35	5.300	54.00	10.65	150	0	AV	PASS
13353.35	47.4	52.45	5.090	74.00	21.55	150	86	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
31.07	64.4	31.51	-32.900	40.00	8.49	150	308	PK	PASS
57.94	63.1	32.92	-30.210	40.00	7.08	150	288	PK	PASS
64.15	65.3	32.93	-32.360	40.00	7.07	150	168	PK	PASS
239.68	66.8	38.33	-28.420	46.00	7.67	150	168	PK	PASS
705.15	57.1	38.94	-18.190	46.00	7.06	150	147	PK	PASS
897.22	50.5	35.46	-14.990	46.00	10.54	150	67	PK	PASS

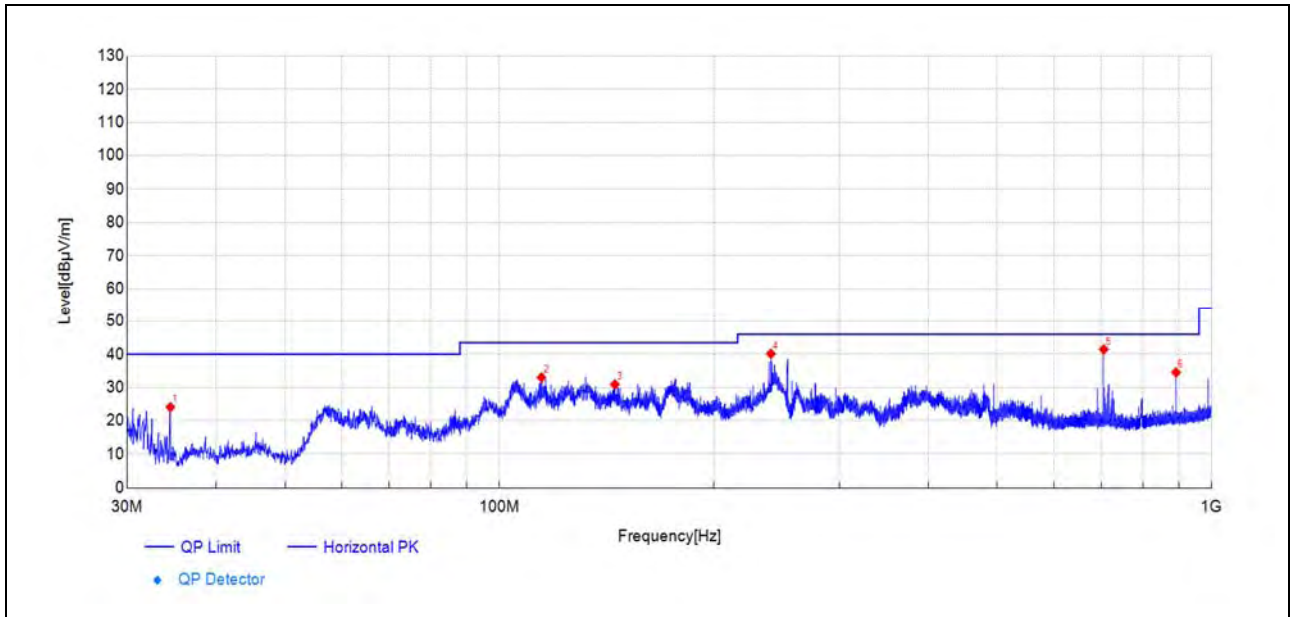


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2439.43	44.3	45.33	1.000	54.00	8.67	150	223	AV	PASS
2439.88	51.8	52.85	1.010	74.00	21.15	150	223	PK	PASS
6511.62	52.0	47.52	-4.500	74.00	26.48	150	52	PK	PASS
10015.23	40.6	40.13	-0.440	54.00	13.87	150	331	AV	PASS
13344.34	38.3	43.49	5.150	54.00	10.51	150	331	AV	PASS
13958.37	47.5	52.65	5.110	74.00	21.35	150	6	PK	PASS

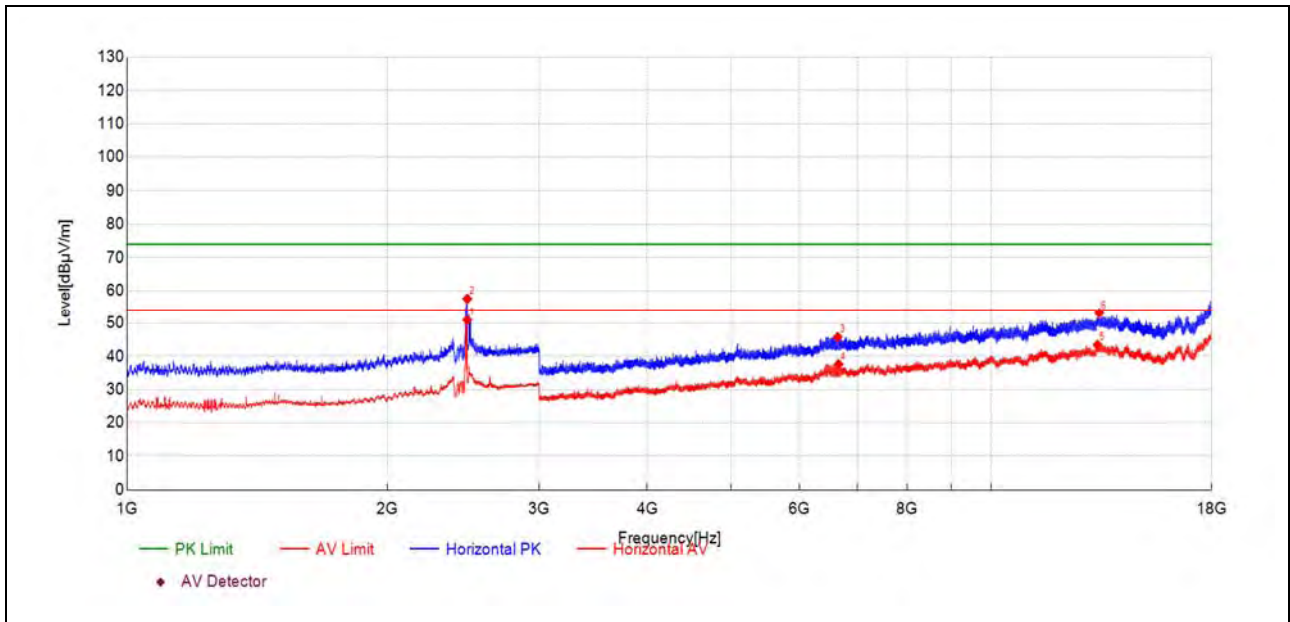


Plot for Channel 13



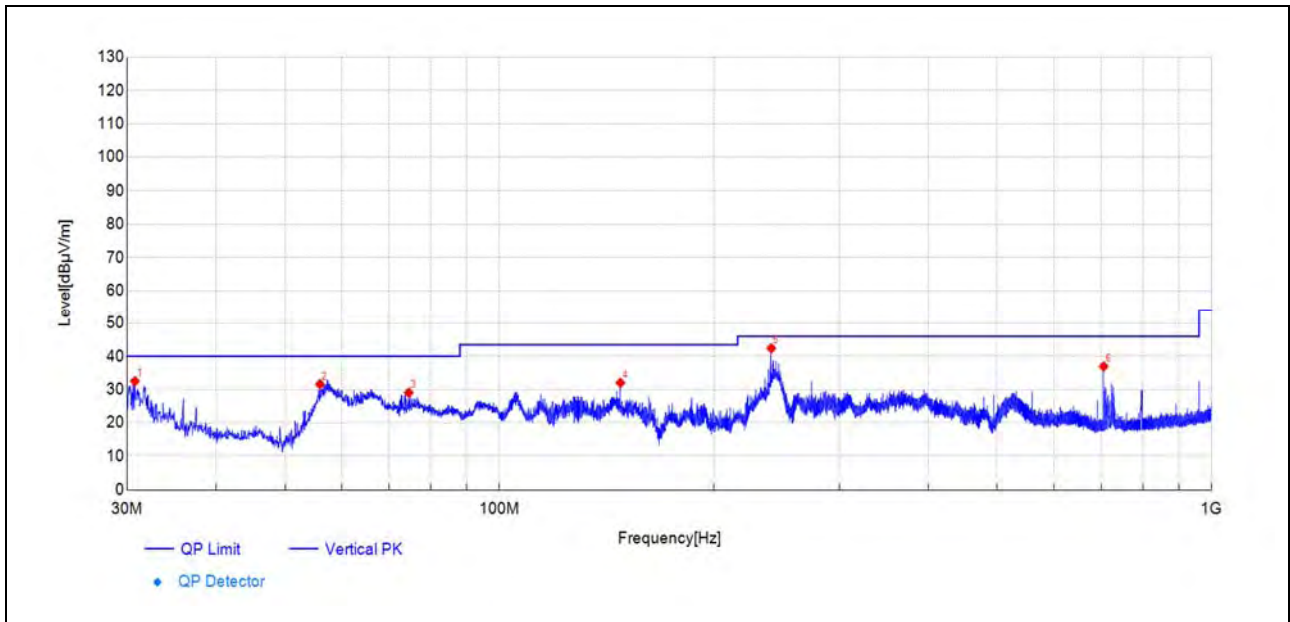
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
34.51	55.4	24.07	-31.280	40.00	15.93	150	350	PK	PASS
114.54	64.4	33.01	-31.430	43.50	10.49	150	26	PK	PASS
145.24	64.4	30.89	-33.540	43.50	12.61	150	86	PK	PASS
240.50	68.5	40.12	-28.400	46.00	5.88	150	36	PK	PASS
705.44	59.6	41.45	-18.180	46.00	4.55	150	350	PK	PASS
891.02	49.7	34.55	-15.130	46.00	11.45	150	178	PK	PASS



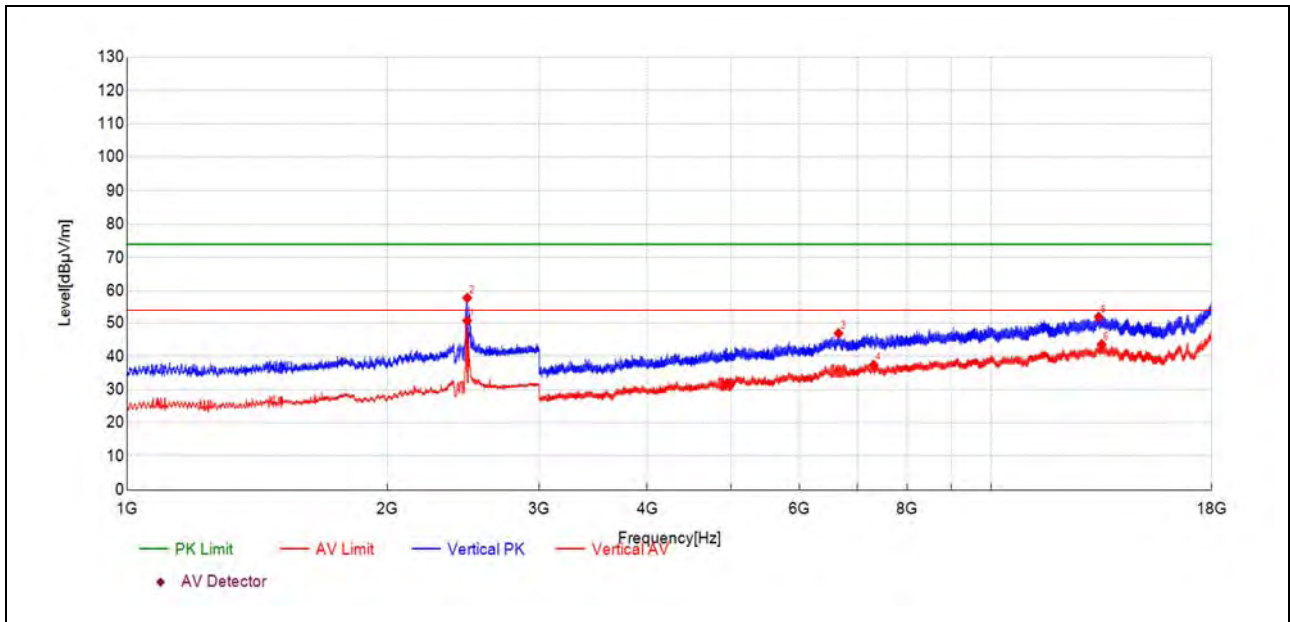
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2475.88	50.0	50.97	0.940	54.00	3.03	150	147	AV	PASS
2476.33	56.6	57.53	0.940	74.00	16.47	150	147	PK	PASS
6643.12	49.7	45.79	-3.880	74.00	28.21	150	189	PK	PASS
6659.62	41.4	37.59	-3.770	54.00	16.41	150	16	AV	PASS
13277.84	38.2	43.44	5.260	54.00	10.56	150	16	AV	PASS
13336.84	47.9	53.10	5.200	74.00	20.90	150	208	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
30.78	65.5	32.50	-32.950	40.00	7.50	150	41	PK	PASS
56.00	61.3	31.56	-29.730	40.00	8.44	150	152	PK	PASS
74.57	64.2	29.05	-35.110	40.00	10.95	150	152	PK	PASS
147.86	65.4	32.02	-33.410	43.50	11.48	150	324	PK	PASS
240.79	70.8	42.40	-28.390	46.00	3.60	150	222	PK	PASS
705.11	55.1	36.93	-18.190	46.00	9.07	150	112	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2474.99	49.8	50.75	0.940	54.00	3.25	150	217	AV	PASS
2475.88	56.9	57.84	0.940	74.00	16.16	150	201	PK	PASS
6659.12	50.6	46.88	-3.760	74.00	27.12	150	34	PK	PASS
7312.14	41.0	37.38	-3.610	54.00	16.62	150	350	AV	PASS
13321.34	46.5	51.80	5.320	74.00	22.20	150	51	PK	PASS
13420.85	38.9	43.59	4.730	54.00	10.41	150	51	AV	PASS

— END OF REPORT —