



REPORT No.: SZ25050280W02

TEST REPORT

APPLICANT : Savant Technologies Llc, dba Ge
lighting, a Savant Company

PRODUCT NAME : LED LAMP

MODEL NAME : CLEDA199CD1,
CLEDA199CDRV

BRAND NAME : GE

FCC ID : PUU-A19-DMFCX

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2025-05-23

TEST DATE : 2025-06-06 to 2025-06-20

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REPORT No.: SZ25050280W02

Change History		
Version	Date	Reason for change
1.0	2025-07-28	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. 07, 2025	Li Xinpeng	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Jun. 07, 2025	Li Xinpeng	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Jun. 07, 2025	Li Xinpeng	PASS	/
5	15.247(a)	Bandwidth	Jun. 07, 2025	Li Xinpeng	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Jun. 07, 2025	Li Xinpeng	PASS	/
7	15.247(e)	Power Spectral Density	Jun. 07, 2025	Li Xinpeng	PASS	/
8	15.207	Conducted Emission	Jun. 18, 2025	Fan Shengquan Wang Yapeng	PASS	/
9	15.247(d)	Restricted Frequency Bands	Jun. 19, 2025	Zhang Liyun	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Jun. 20, 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	MY56400093	N9038A	KEYSIGHT	2025.01.06	2026.01.05
LISN	8127449	NSLK 8127	Schwarzbeck	2025.01.09	2026.01.18
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2025.05.13	2026.05.12
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2024.07.02	2025.07.01

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	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
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	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.07.03	2025.07.02
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
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FCC Designation Number:	CN1192
FCC Test Firm Registration Number:	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	Savant Technologies LLc, dba Ge lighting, a Savant Company
Applicant Address:	1975 Noble Road Cleveland Ohio United States 44112
Manufacturer:	Savant Technologies LLc, dba Ge lighting, a Savant Company
Manufacturer Address:	1975 Noble Road Cleveland Ohio United States 44112

2.2. Information of EUT

Product Name:	LED LAMP
Sample No.:	1#, 2#, 3#
Hardware Version:	6
Software Version:	1.1.162.AB(for CLEDA199CD1) 1.1.162.6B(for CLEDA199CDRV)
Modulation Technology:	DSSS, OFDM
Modulation Type:	Refer to section 2.4.1
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)
Operating Frequency Range:	2412MHz–2462MHz
Antenna Type:	On-board antenna
Antenna Gain:	-1.20dBi

Note 1: According to the certificate holder, they declared that the models: CLEDA199CD1, CLEDA199CDRV have the same hardware. It's just that the model and software version are different. The color temperature controlled by the software is different, but everything else is exactly the same. The main measuring model is CLEDA199CD1, only the results for CLEDA199CD1 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

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		
	6	2437		
	7	2442		
Nominal Channel Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
40MHz	3	2422	8	2447
	4	2427	9	2452
	5	2432		
	6	2437		
	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.

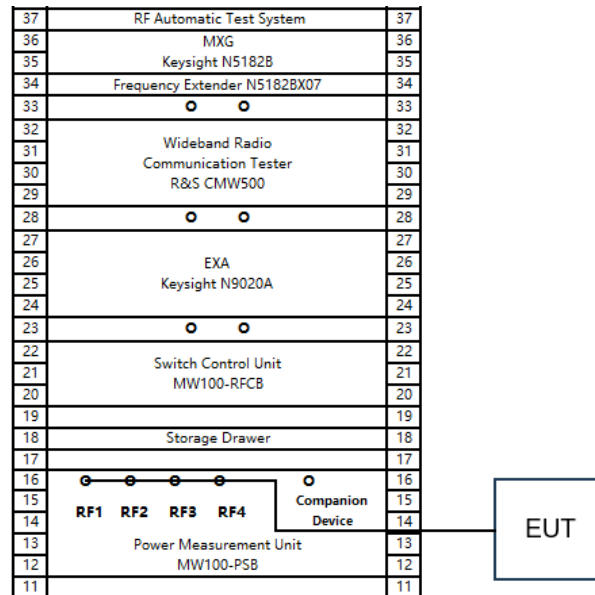
Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

2.5. Test Conditions

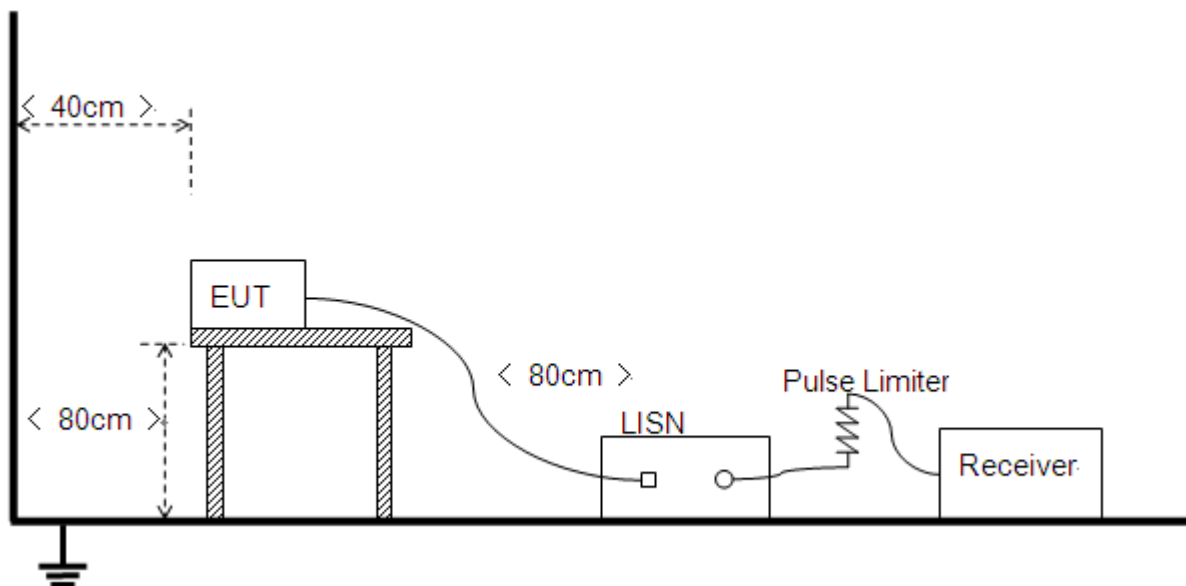
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement



2.6.2. Conducted Emission Measurement

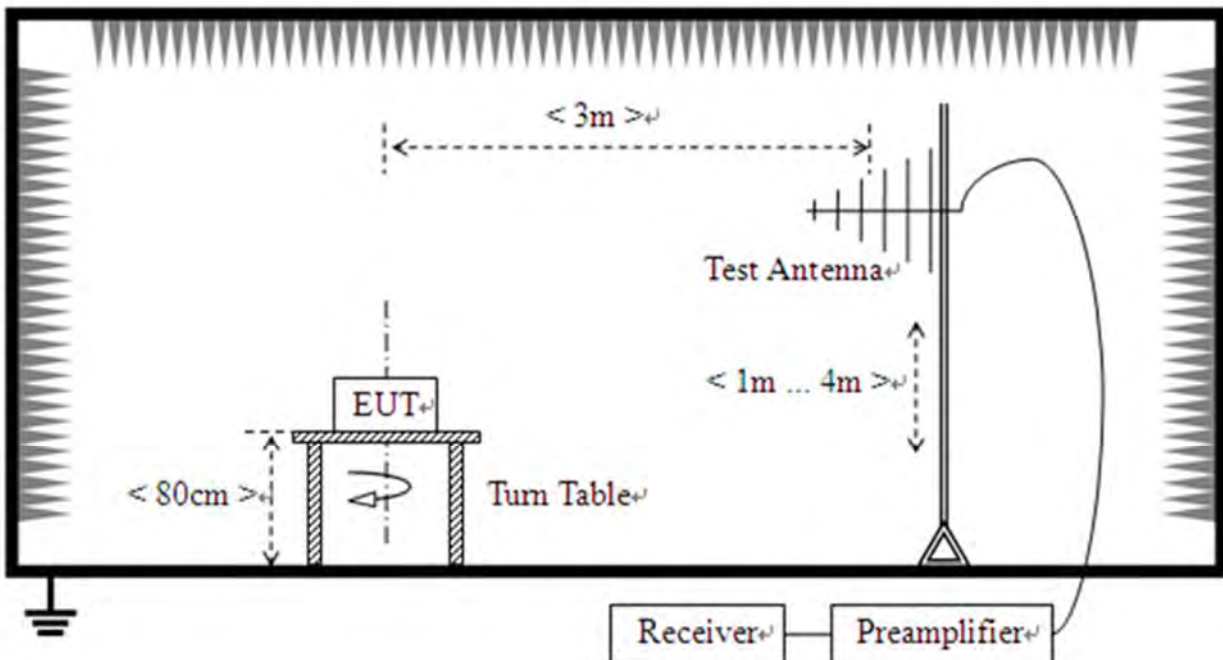


2.6.3.Radiation Measurement

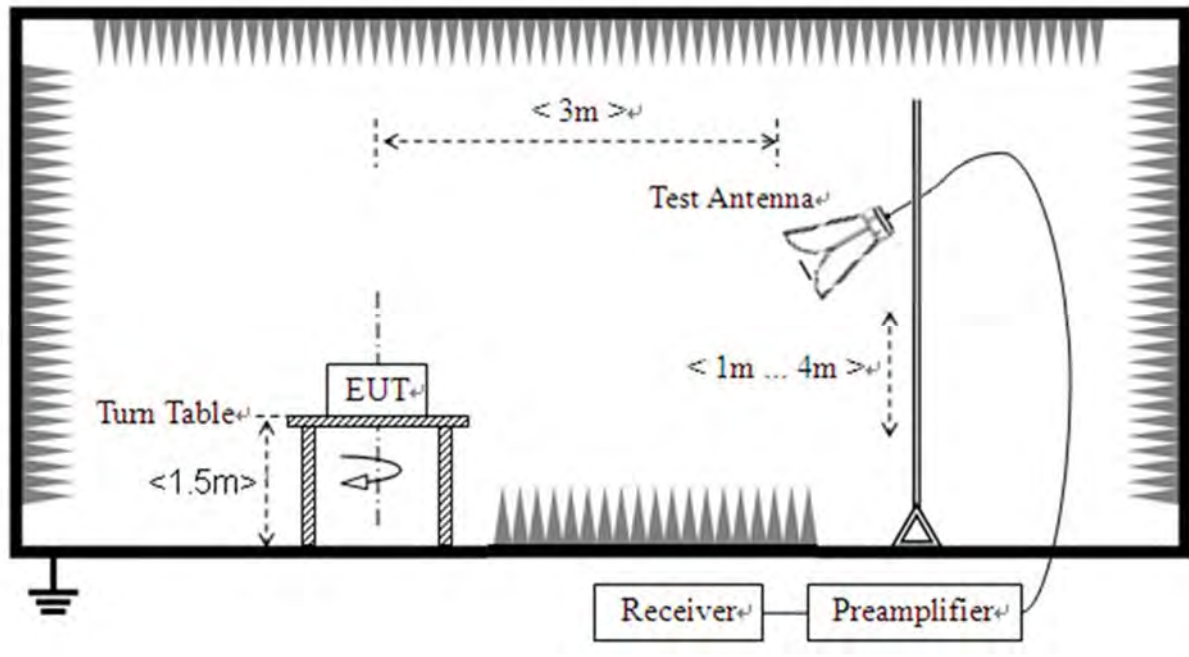
1) For radiated emissions from 9kHz to 30MHz



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 ☐ External 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 ($\mu\text{V/m}$)	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 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.

3.9.3.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

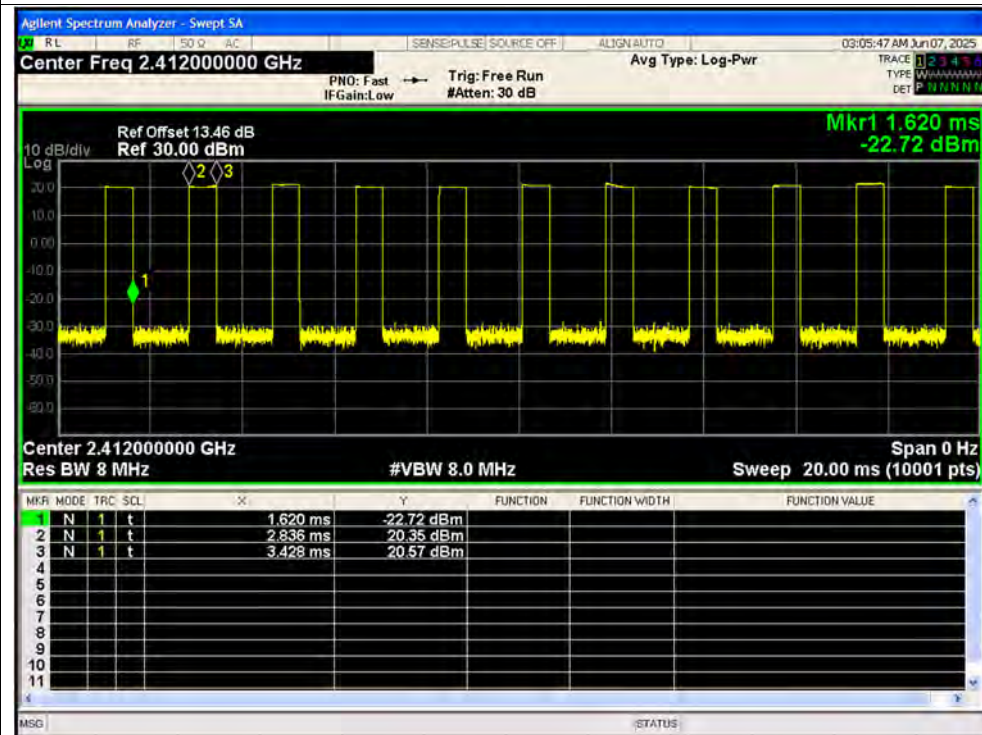
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	32.74	4.85	1.69
NVNT	b	2437	Ant1	32.74	4.85	1.69
NVNT	b	2462	Ant1	32.82	4.84	1.68
NVNT	g	2412	Ant1	32.59	4.87	1.71
NVNT	g	2437	Ant1	32.48	4.88	1.71
NVNT	g	2462	Ant1	32.59	4.87	1.71
NVNT	n20	2412	Ant1	31.57	5.01	1.79
NVNT	n20	2437	Ant1	31.57	5.01	1.79
NVNT	n20	2462	Ant1	31.57	5.01	1.79
NVNT	n40	2422	Ant1	32.33	4.9	1.72
NVNT	n40	2437	Ant1	32.44	4.89	1.72
NVNT	n40	2452	Ant1	32.44	4.89	1.72

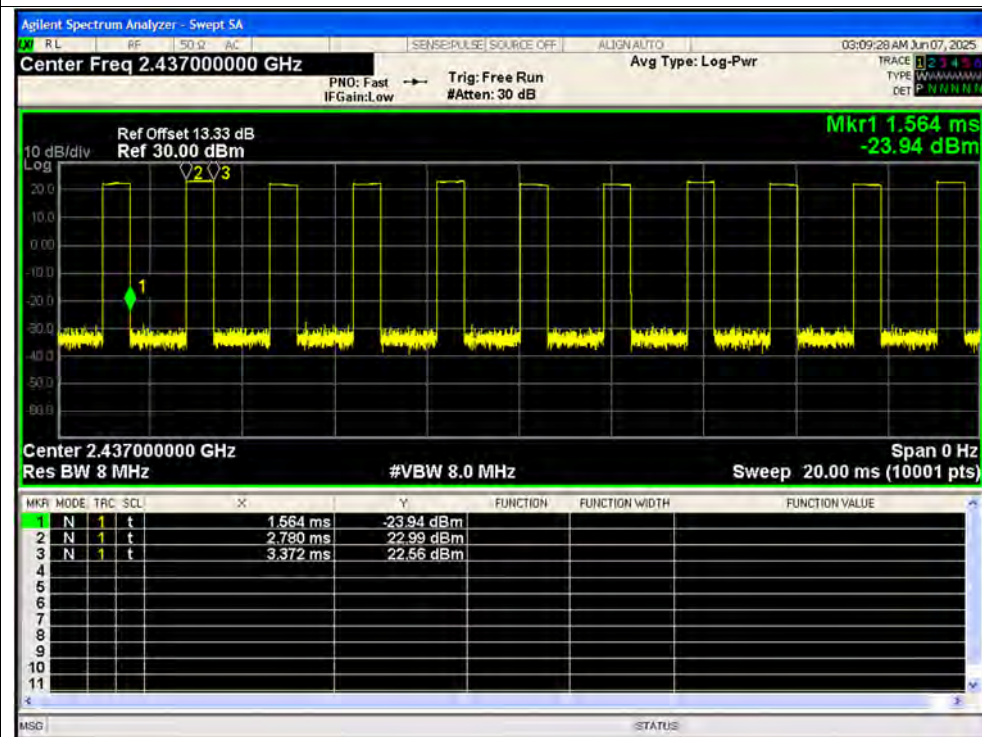


Test Graphs

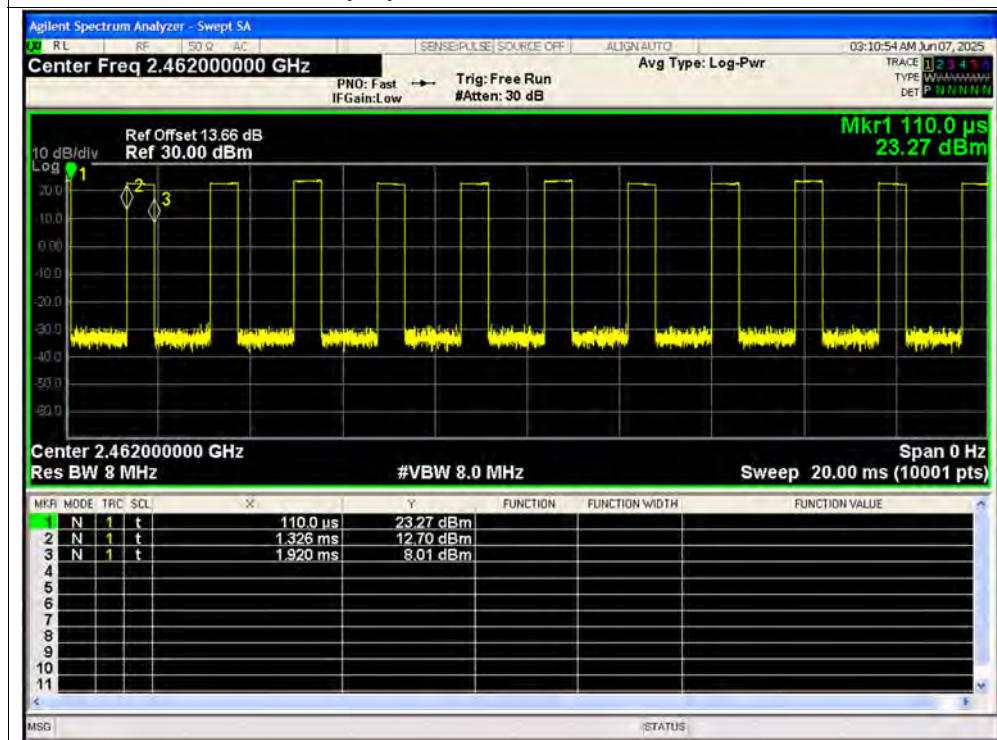
Duty Cycle NVNT b 2412MHz Ant1



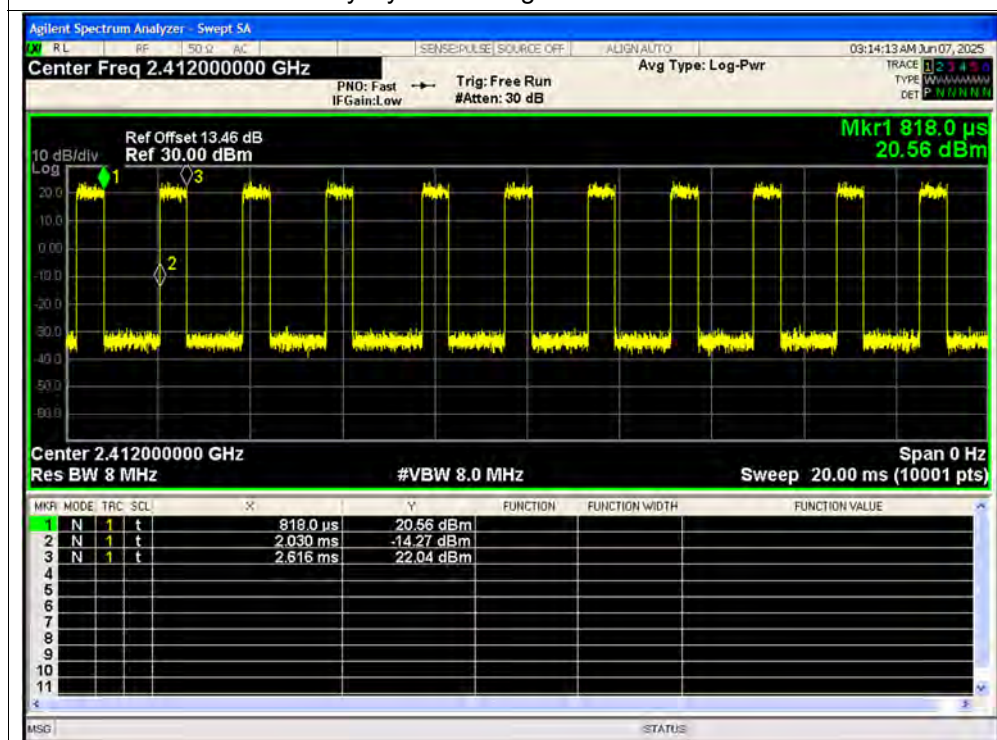
Duty Cycle NVNT b 2437MHz Ant1



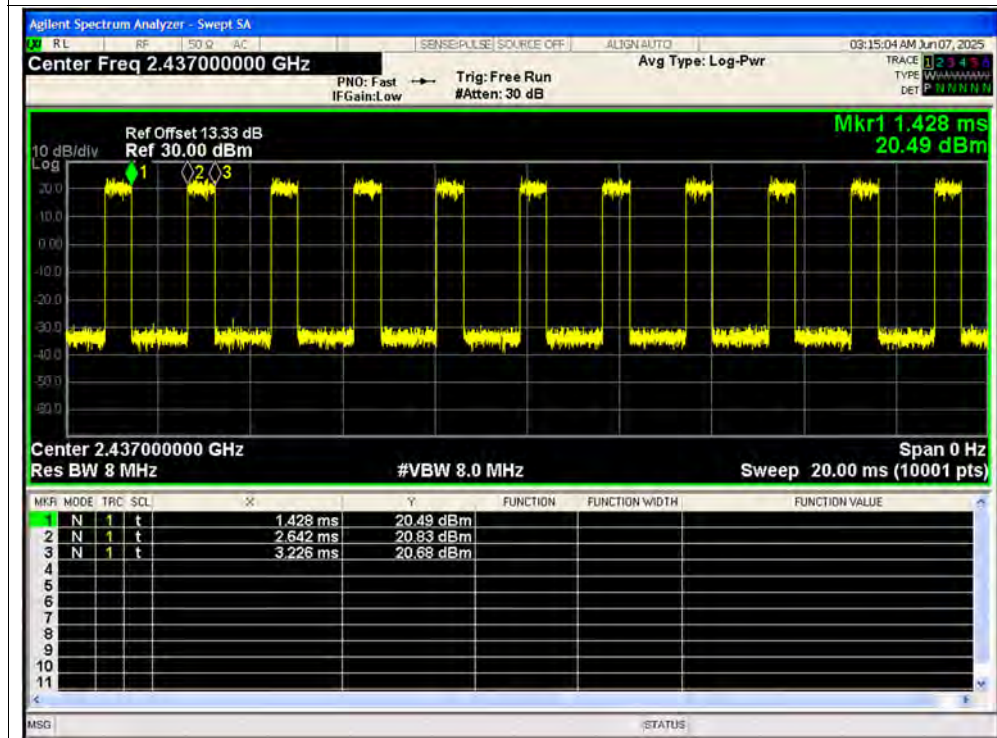
Duty Cycle NVNT b 2462MHz Ant1



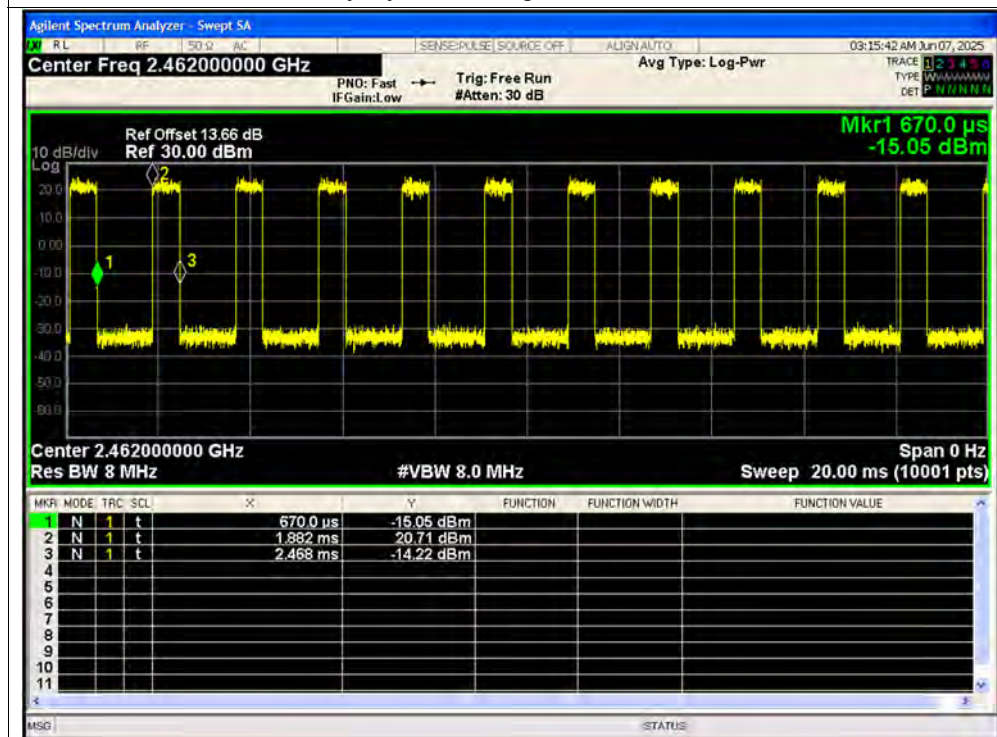
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1

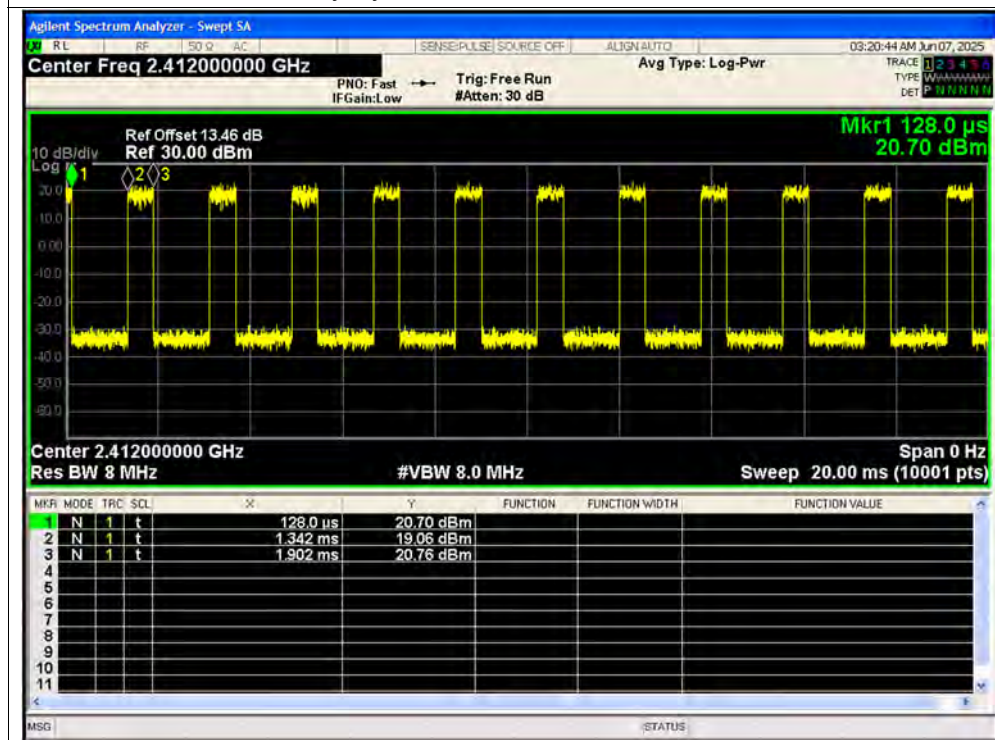


Duty Cycle NVNT g 2462MHz Ant1

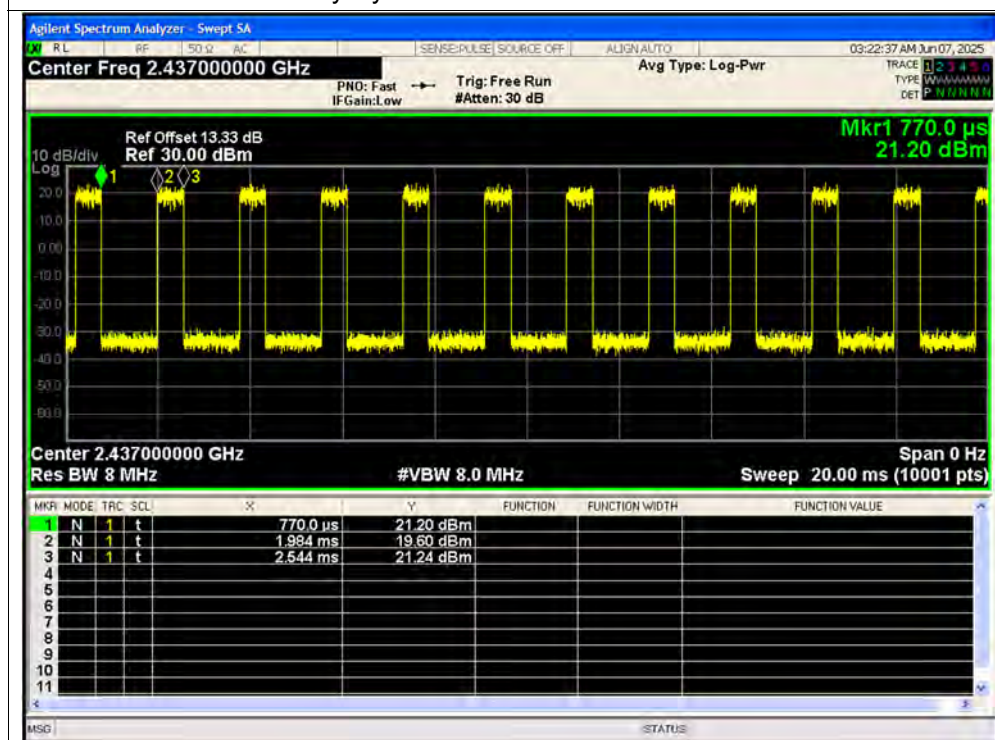




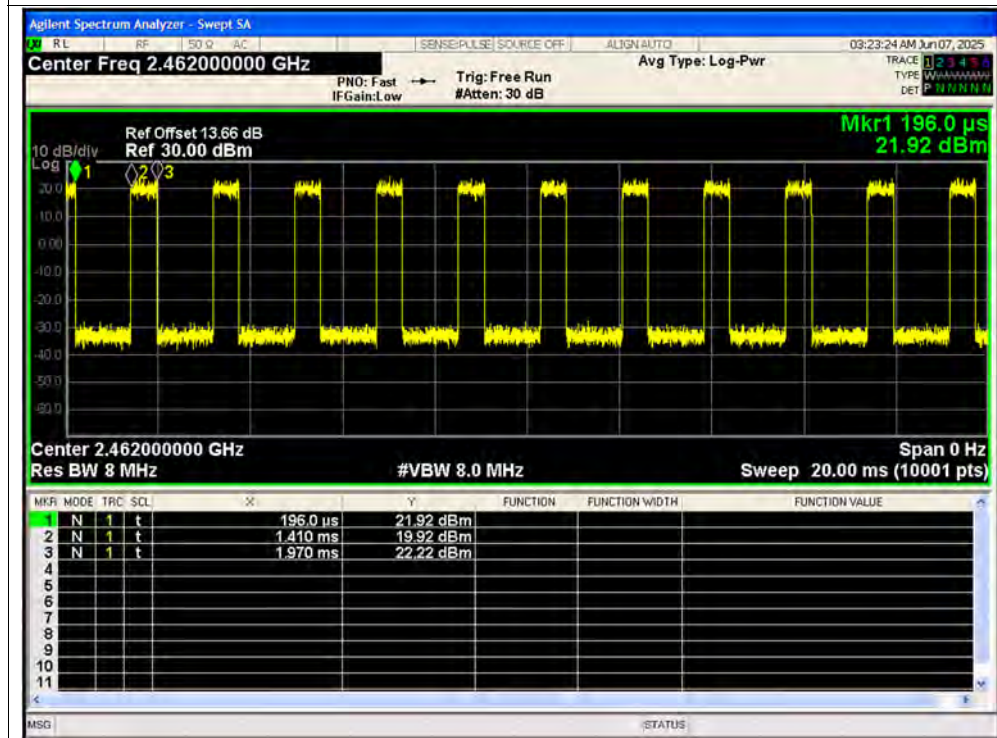
Duty Cycle NVNT n20 2412MHz Ant1



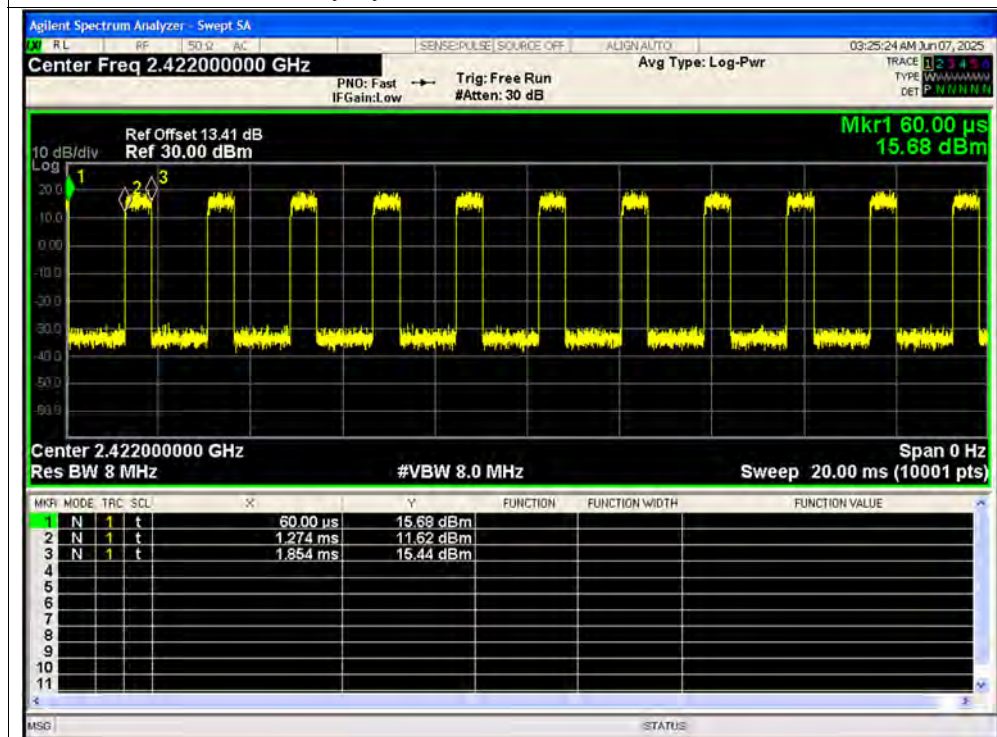
Duty Cycle NVNT n20 2437MHz Ant1



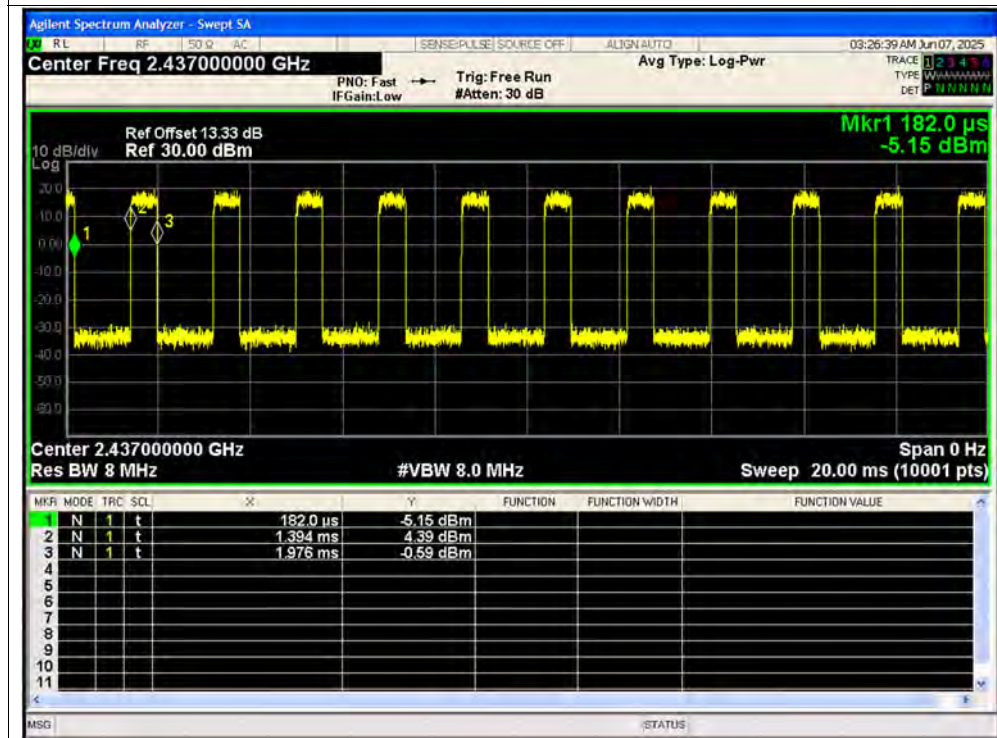
Duty Cycle NVNT n20 2462MHz Ant1



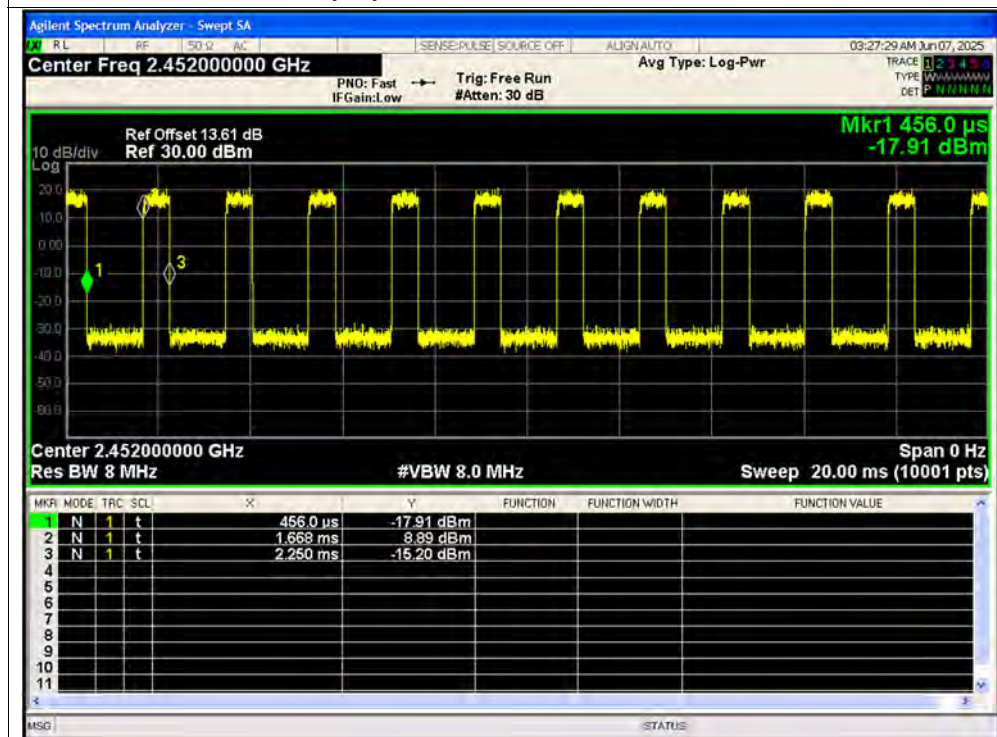
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1

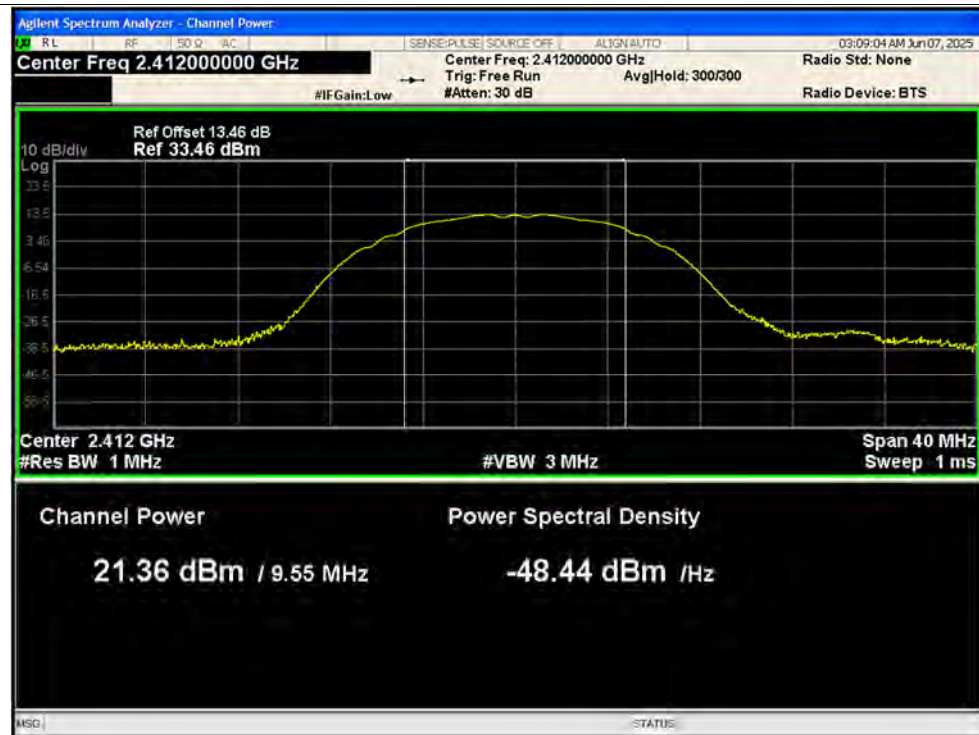


**A.2. Maximum Peak Conducted Output Power**

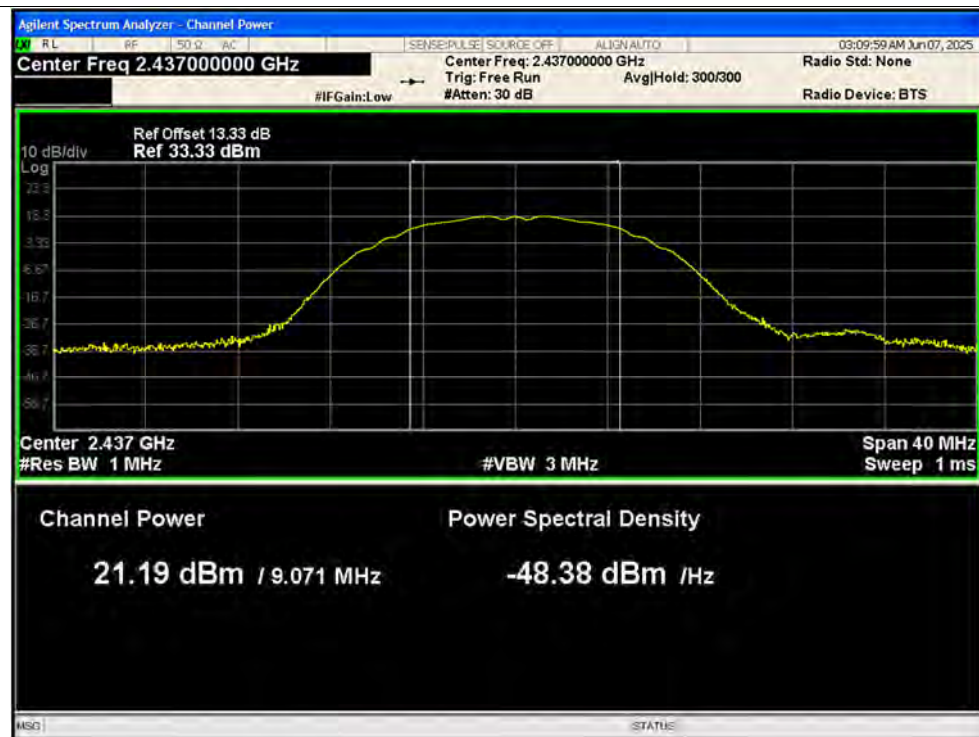
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	21.36	0	21.36	0.13677	30	Pass
NVNT	b	2437	Ant1	21.19	0	21.19	0.13152	30	Pass
NVNT	b	2462	Ant1	21.81	0	21.81	0.15171	30	Pass
NVNT	g	2412	Ant1	24.83	0	24.83	0.30409	30	Pass
NVNT	g	2437	Ant1	25.13	0	25.13	0.32584	30	Pass
NVNT	g	2462	Ant1	25.8	0	25.8	0.38019	30	Pass
NVNT	n20	2412	Ant1	23.98	0	23.98	0.25003	30	Pass
NVNT	n20	2437	Ant1	24.42	0	24.42	0.27669	30	Pass
NVNT	n20	2462	Ant1	24.93	0	24.93	0.31117	30	Pass
NVNT	n40	2422	Ant1	22.8	0	22.8	0.19055	30	Pass
NVNT	n40	2437	Ant1	23.81	0	23.81	0.24044	30	Pass
NVNT	n40	2452	Ant1	24.37	0	24.37	0.27353	30	Pass

Test Graphs

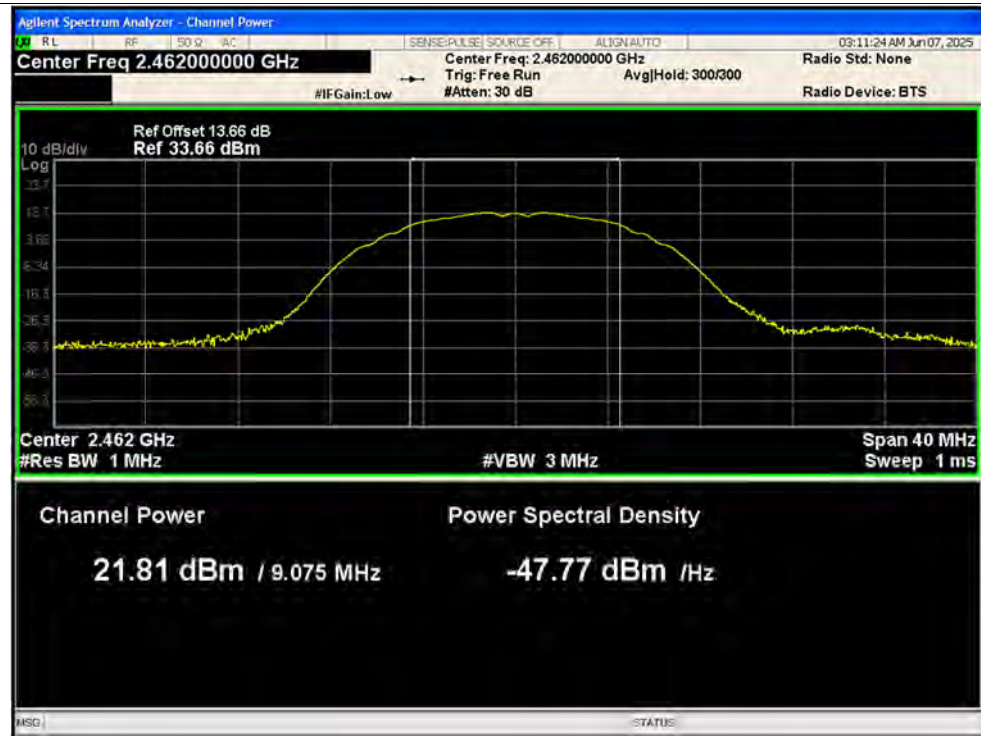
Peak Power NVNT b 2412MHz Ant1



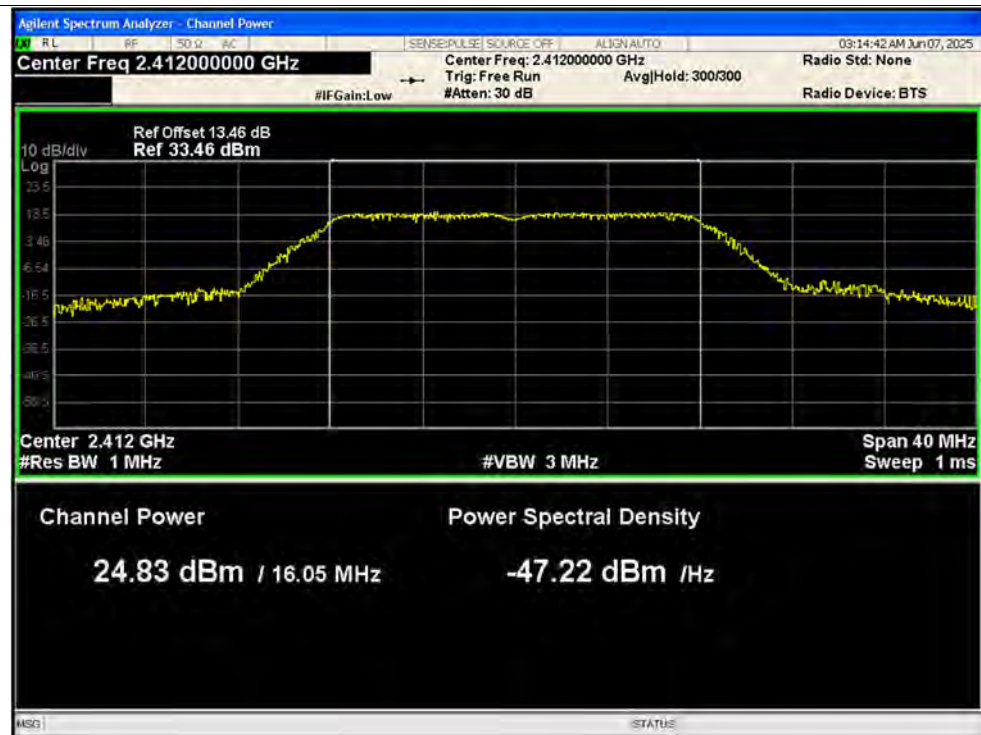
Peak Power NVNT b 2437MHz Ant1



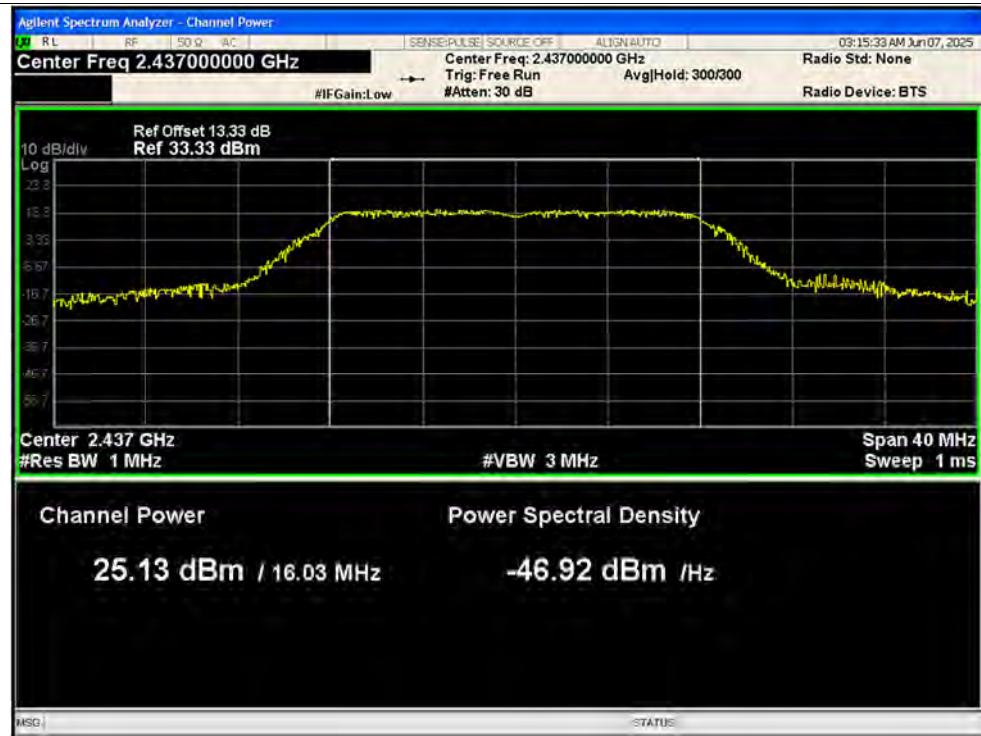
Peak Power NVNT b 2462MHz Ant1



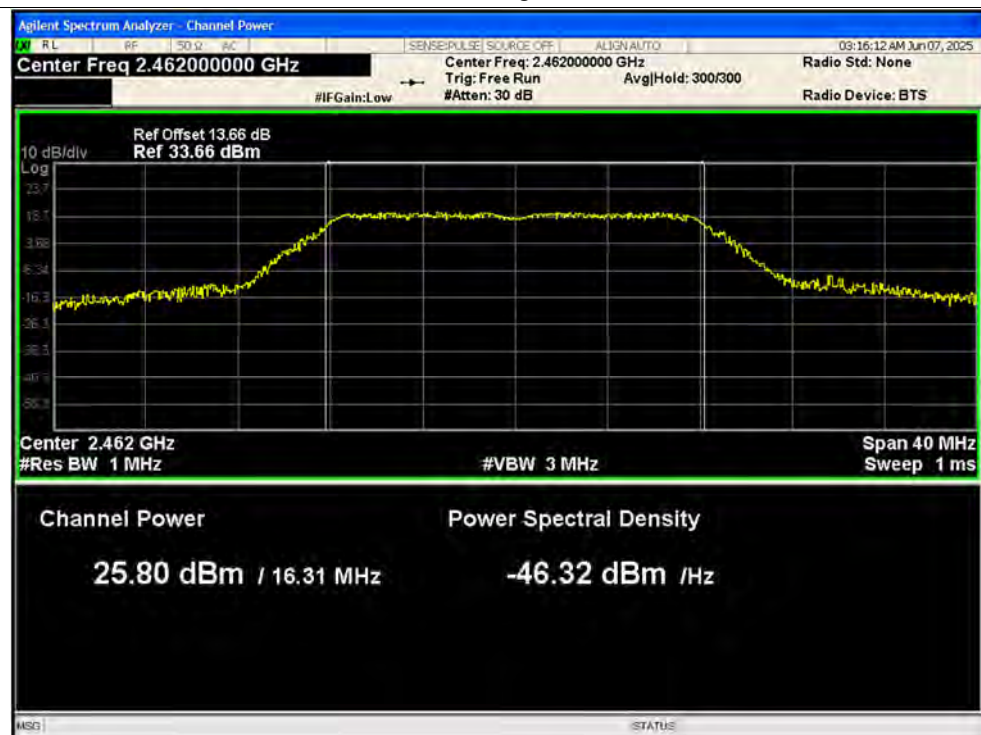
Peak Power NVNT g 2412MHz Ant1



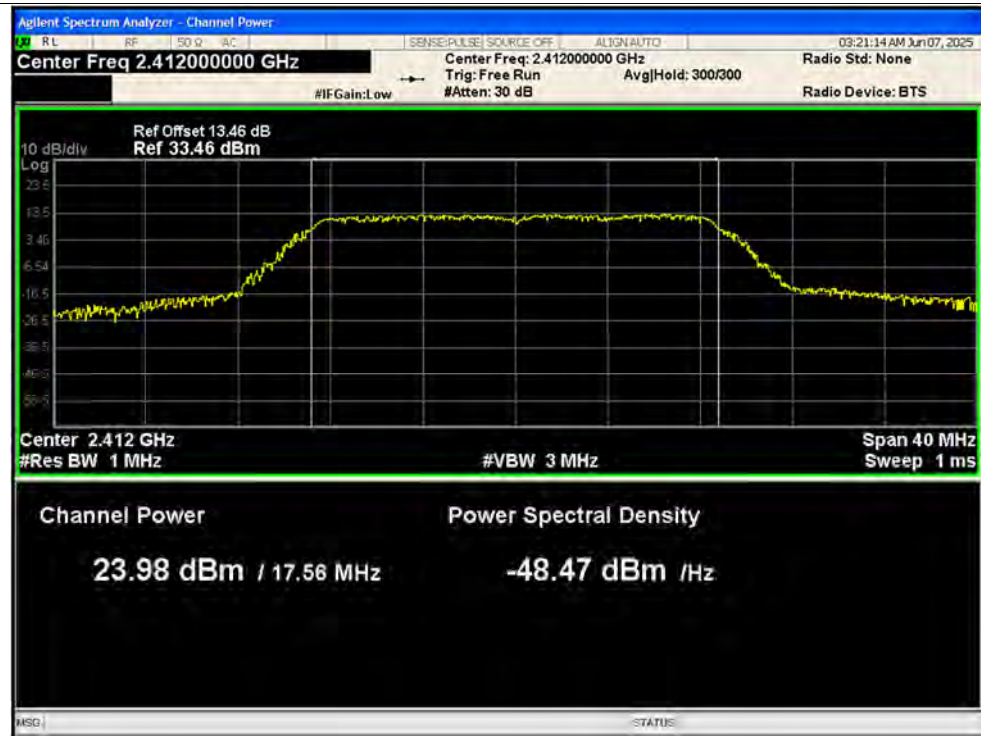
Peak Power NVNT g 2437MHz Ant1



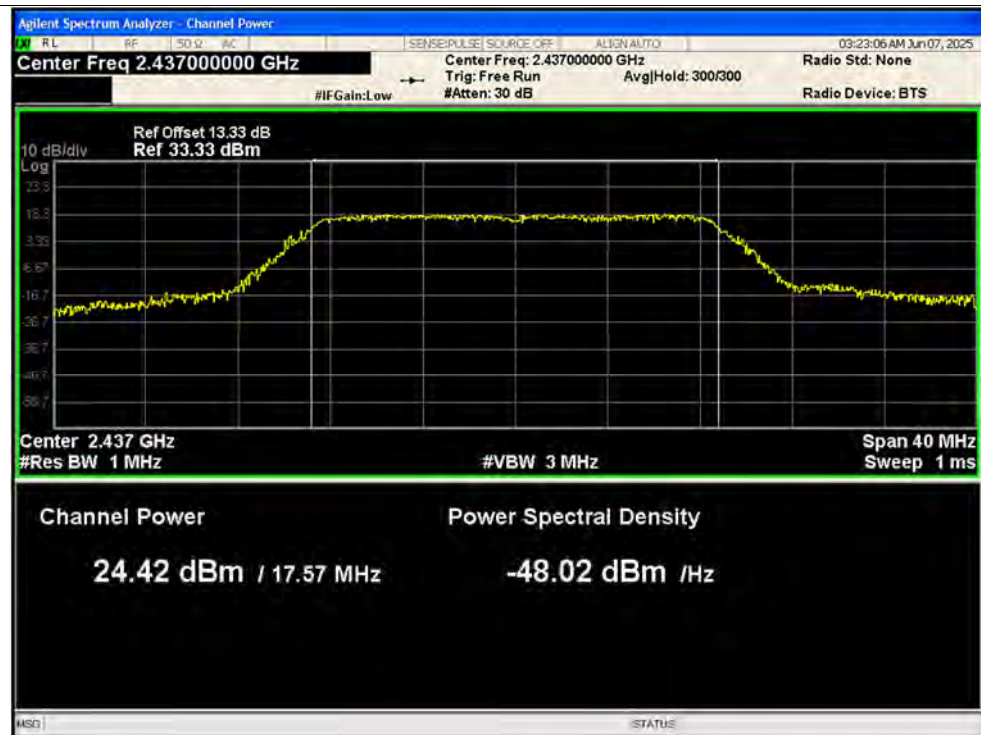
Peak Power NVNT g 2462MHz Ant1



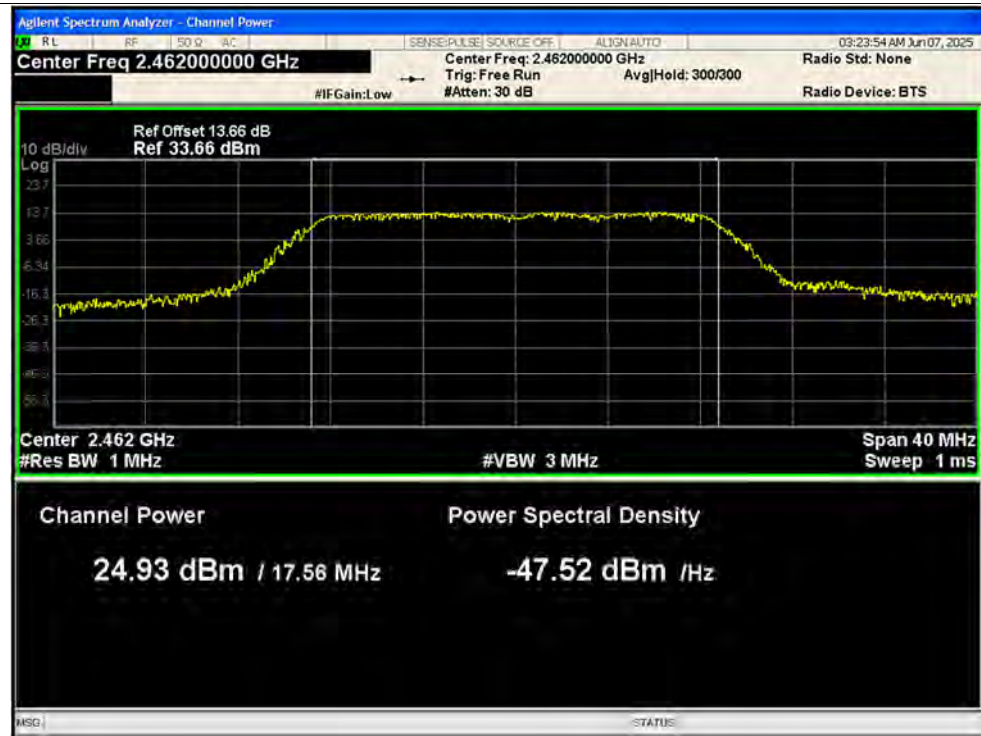
Peak Power NVNT n20 2412MHz Ant1



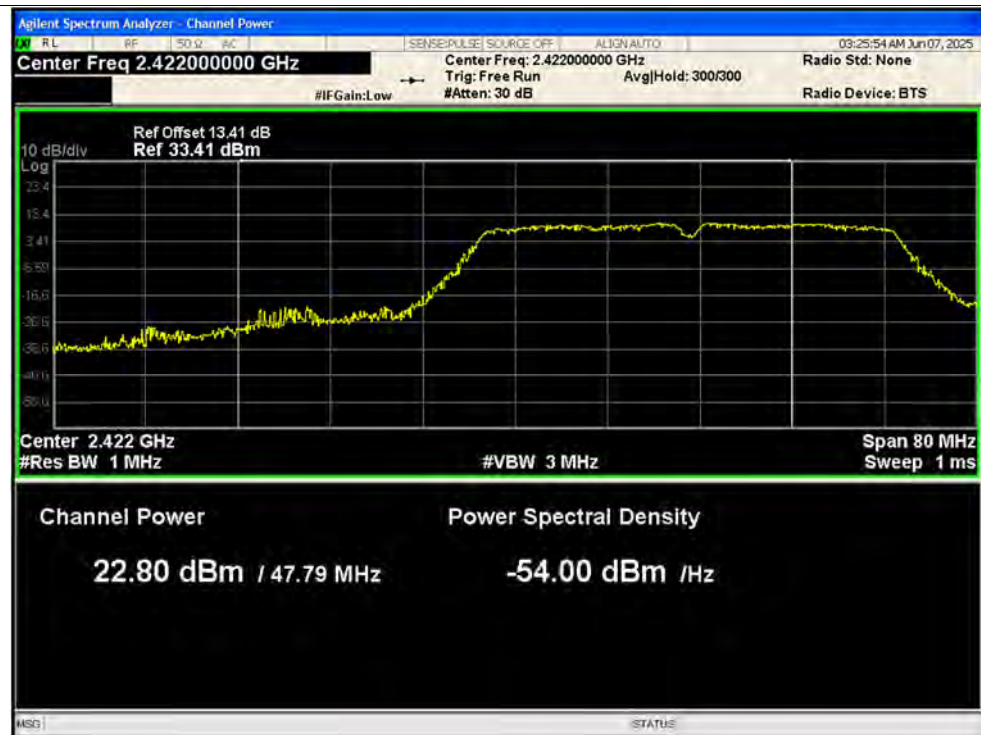
Peak Power NVNT n20 2437MHz Ant1



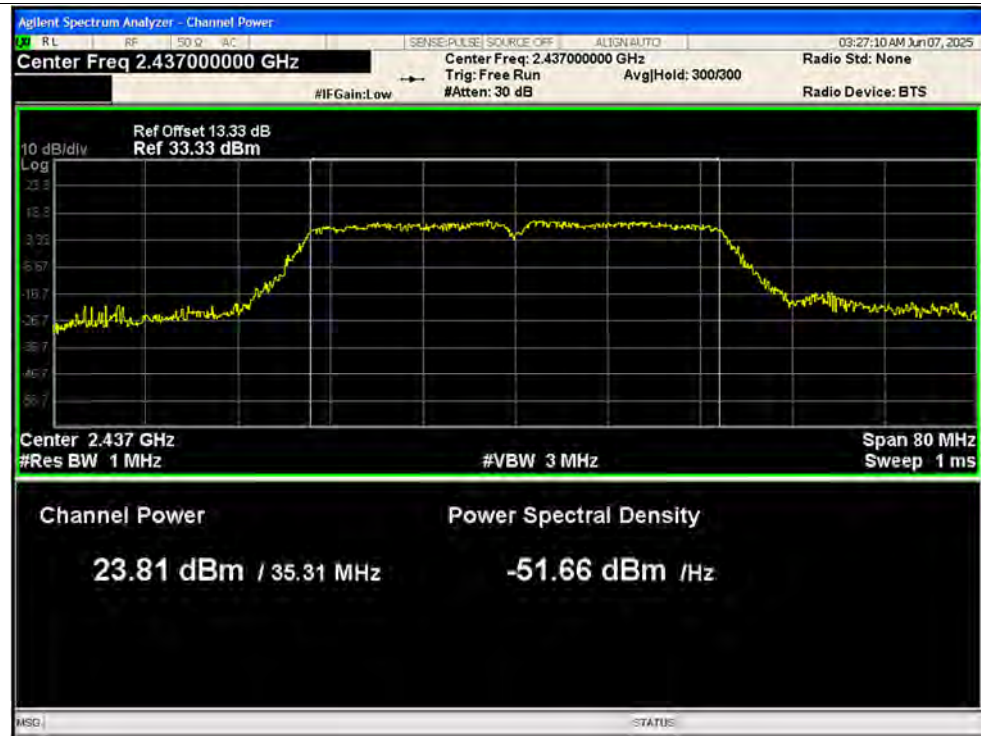
Peak Power NVNT n20 2462MHz Ant1



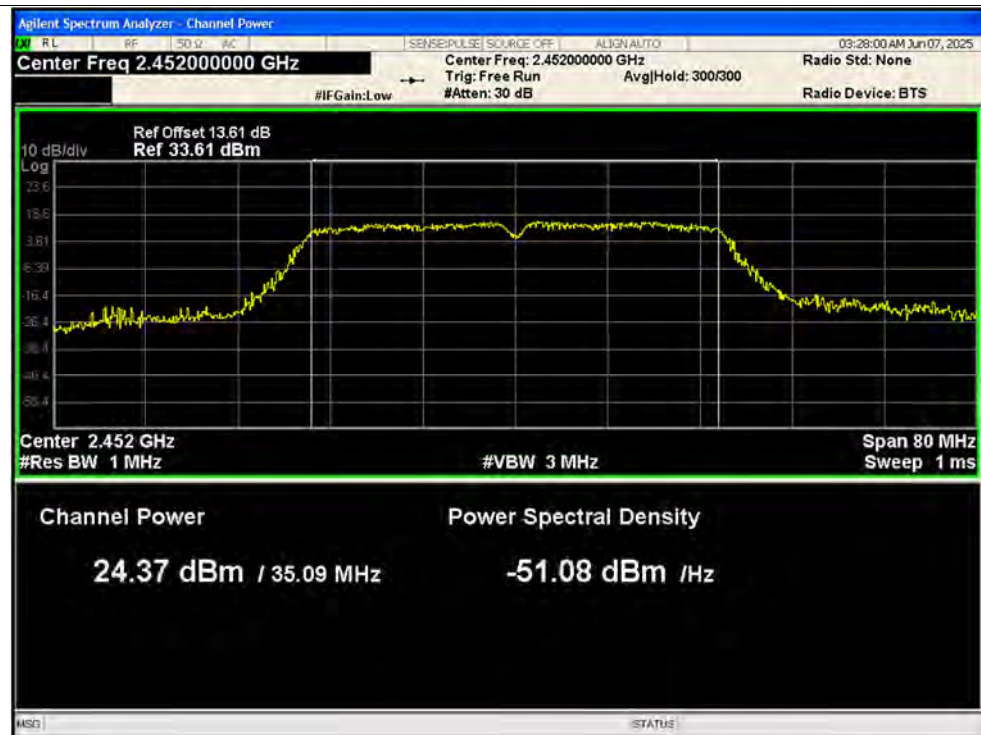
Peak Power NVNT n40 2422MHz Ant1



Peak Power NVNT n40 2437MHz Ant1



Peak Power NVNT n40 2452MHz Ant1

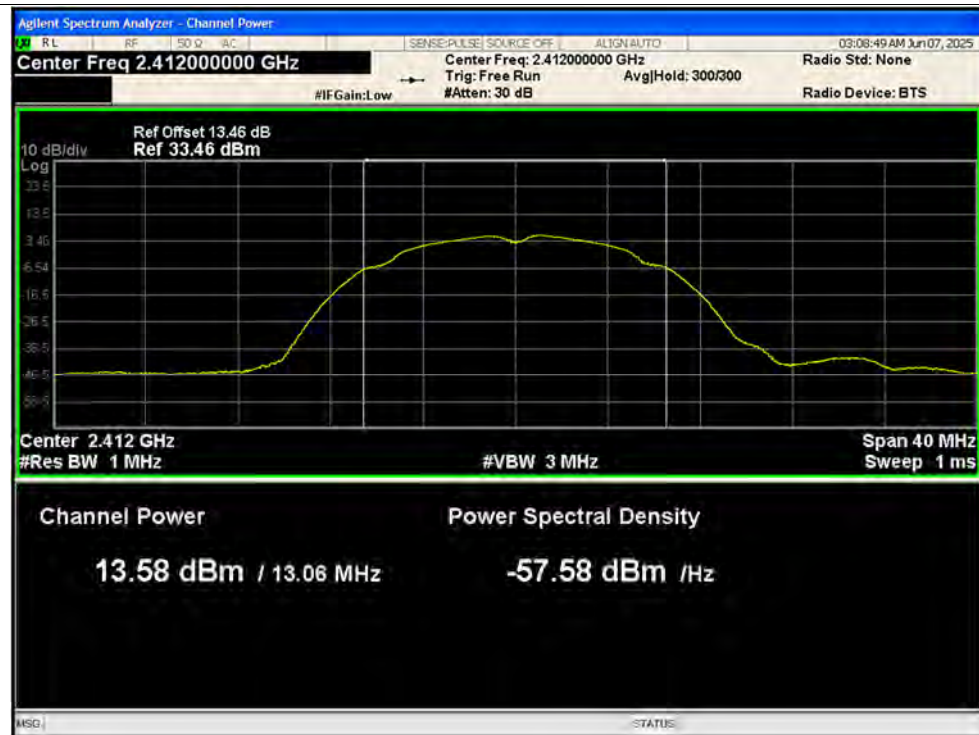


**A.3. Maximum Average Conducted Output Power**

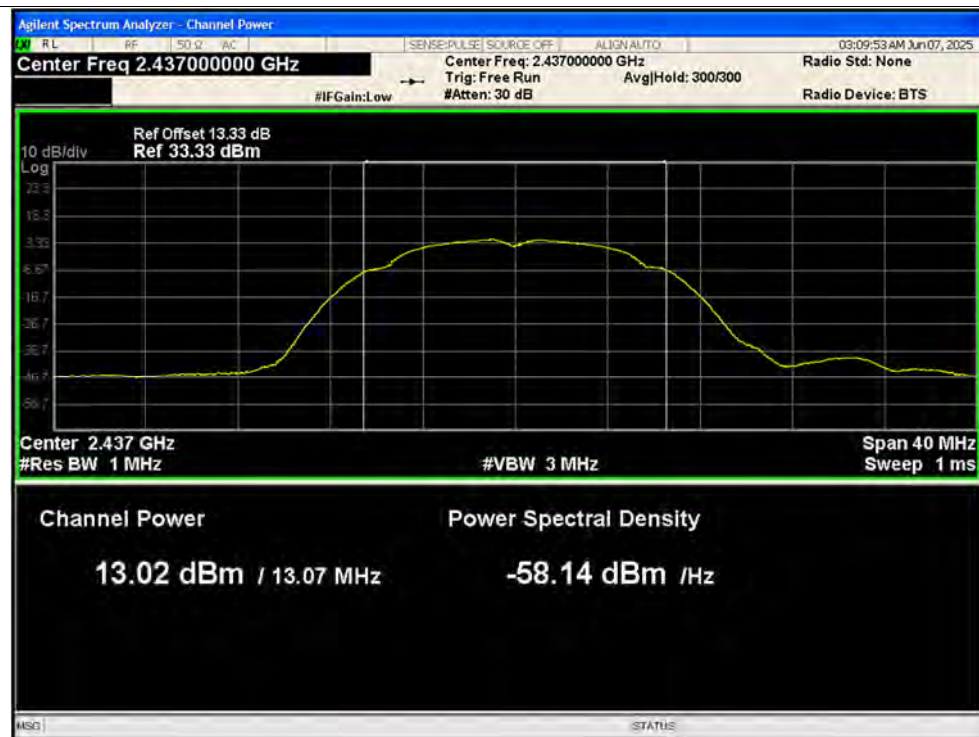
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	13.58	4.85	18.43	0.06966	30	Pass
NVNT	b	2437	Ant1	13.02	4.85	17.87	0.06124	30	Pass
NVNT	b	2462	Ant1	14.24	4.84	19.08	0.08091	30	Pass
NVNT	g	2412	Ant1	13.12	4.87	17.99	0.06295	30	Pass
NVNT	g	2437	Ant1	13.05	4.88	17.93	0.06209	30	Pass
NVNT	g	2462	Ant1	14.13	4.87	19	0.07943	30	Pass
NVNT	n20	2412	Ant1	12.13	5.01	17.14	0.05176	30	Pass
NVNT	n20	2437	Ant1	11.71	5.01	16.72	0.04699	30	Pass
NVNT	n20	2462	Ant1	12.28	5.01	17.29	0.05358	30	Pass
NVNT	n40	2422	Ant1	11.57	4.9	16.47	0.04436	30	Pass
NVNT	n40	2437	Ant1	12.08	4.89	16.97	0.04977	30	Pass
NVNT	n40	2452	Ant1	12.44	4.89	17.33	0.05408	30	Pass

Test Graphs

Average Power NVNT b 2412MHz Ant1

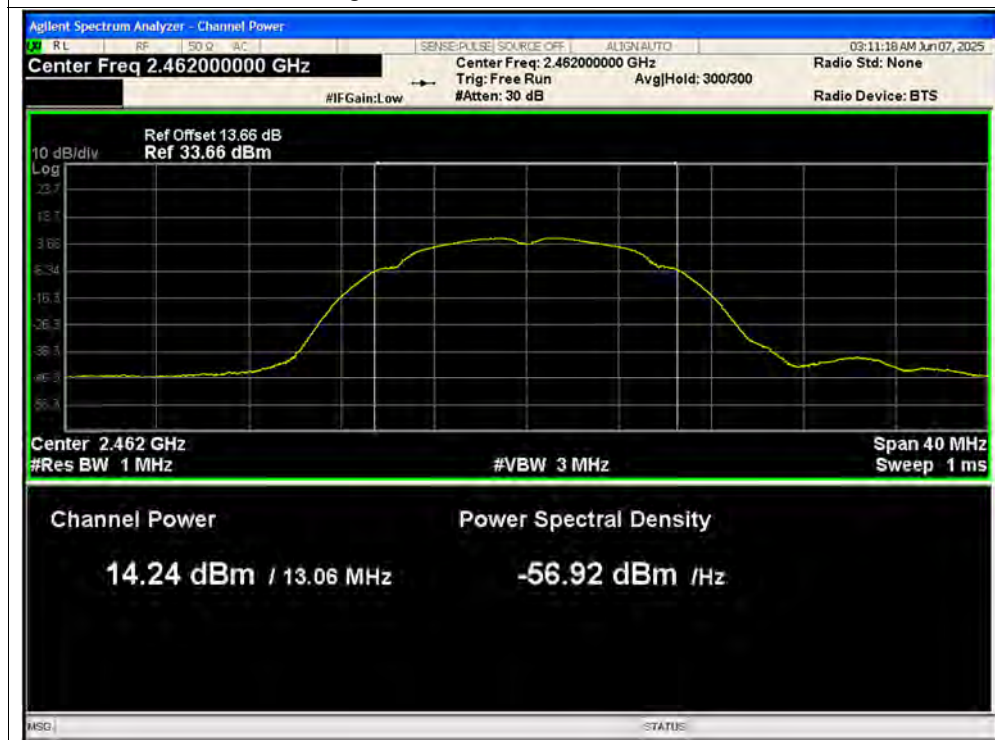


Average Power NVNT b 2437MHz Ant1

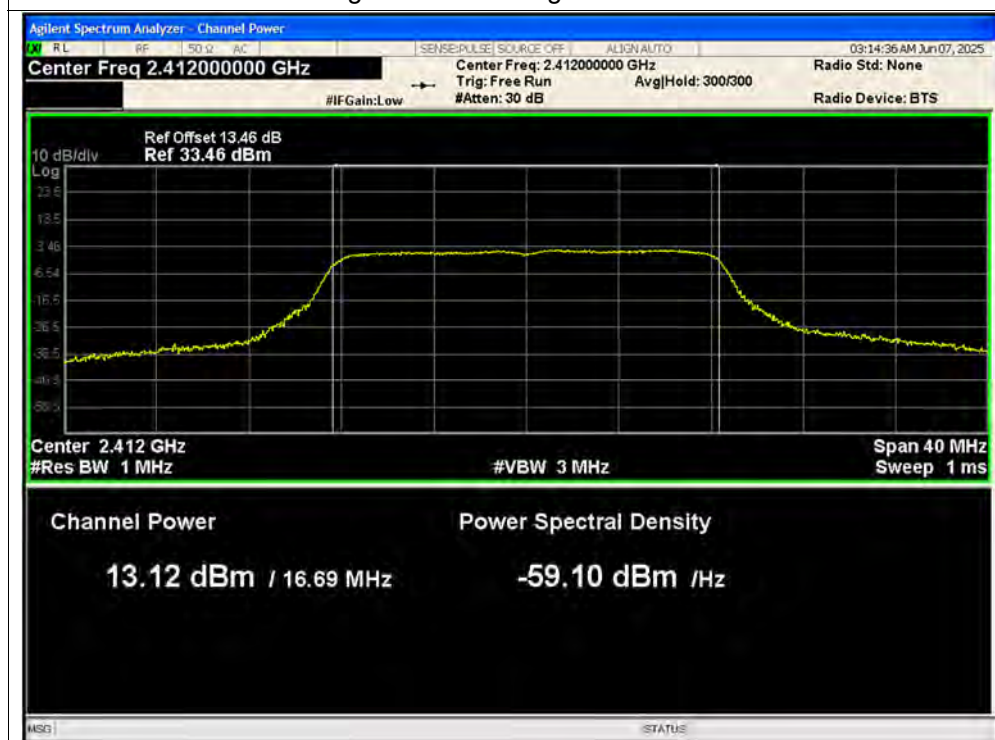




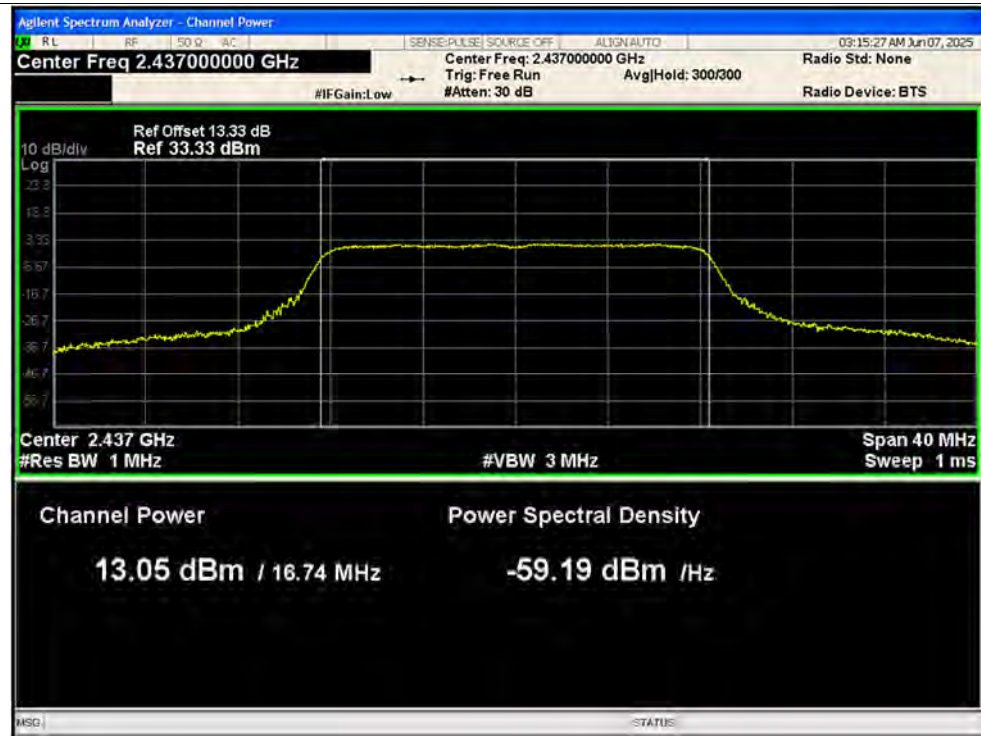
Average Power NVNT b 2462MHz Ant1



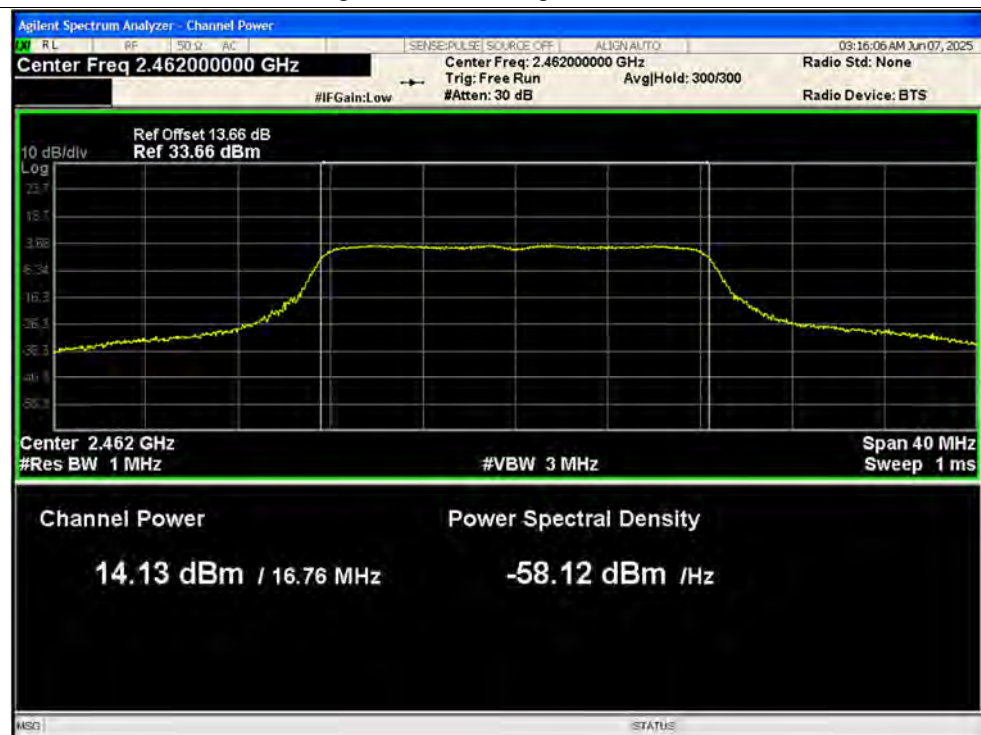
Average Power NVNT g 2412MHz Ant1



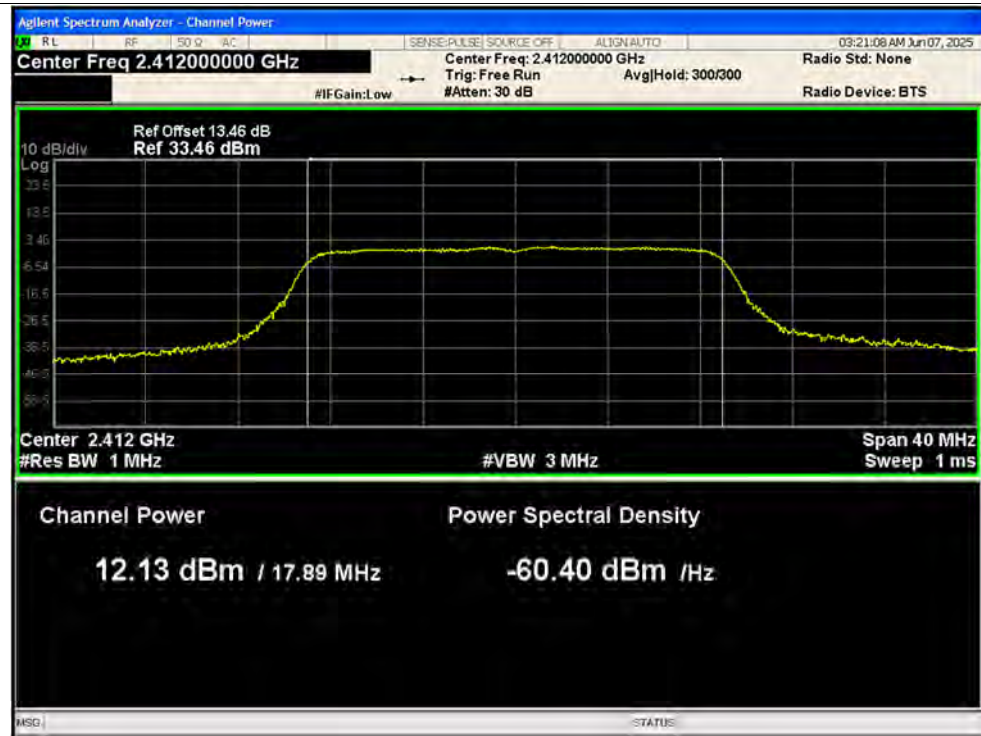
Average Power NVNT g 2437MHz Ant1



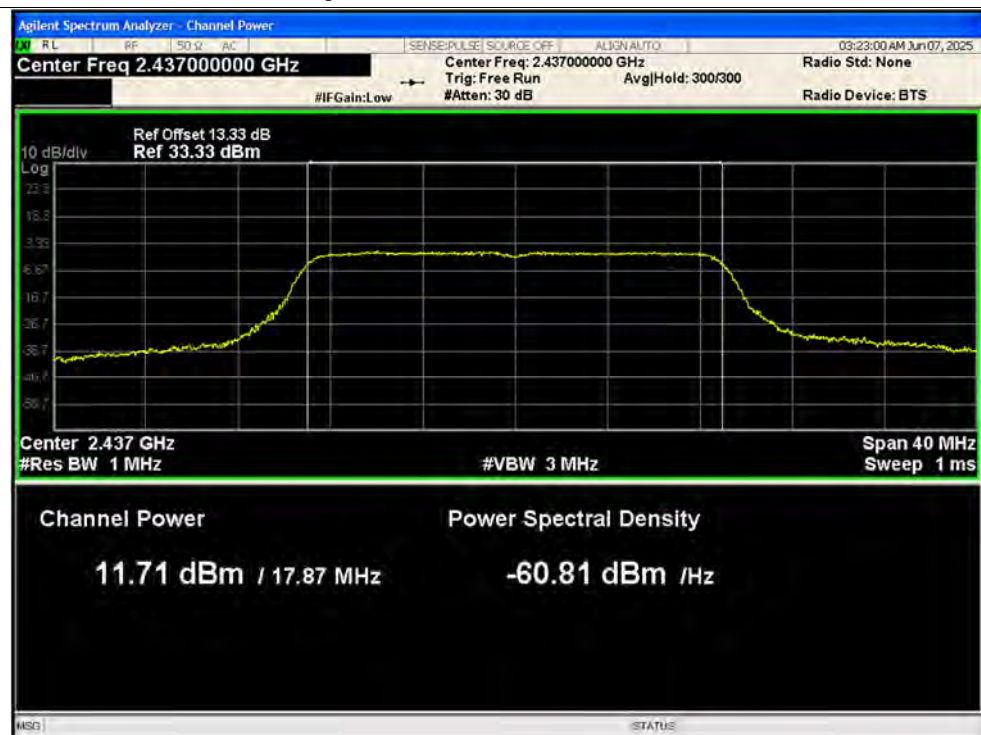
Average Power NVNT g 2462MHz Ant1



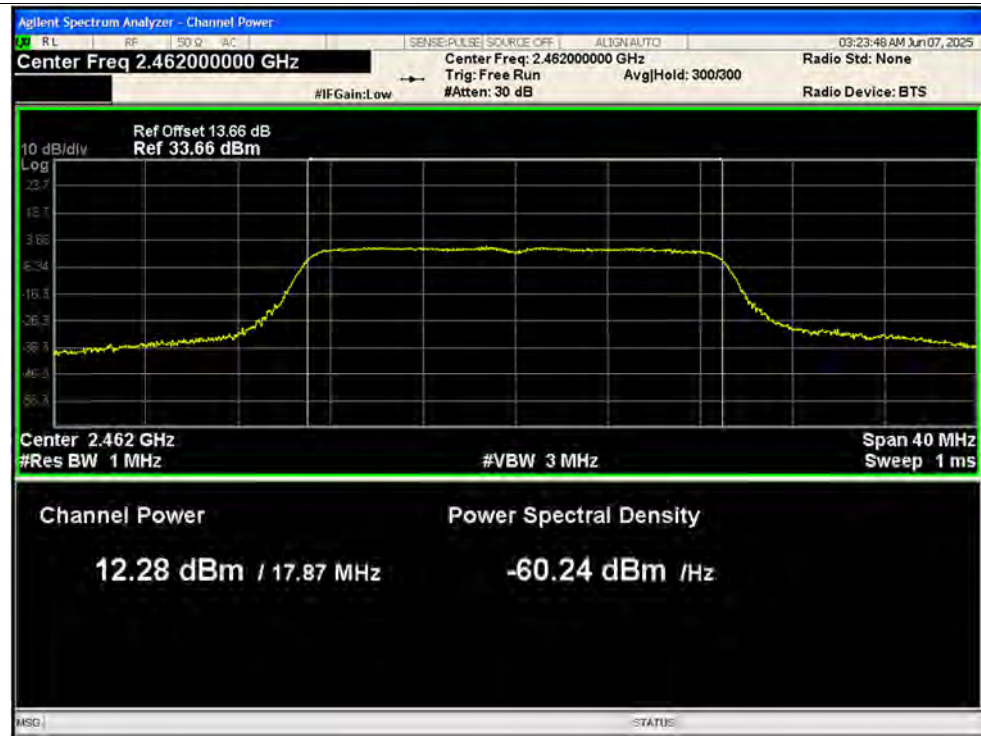
Average Power NVNT n20 2412MHz Ant1



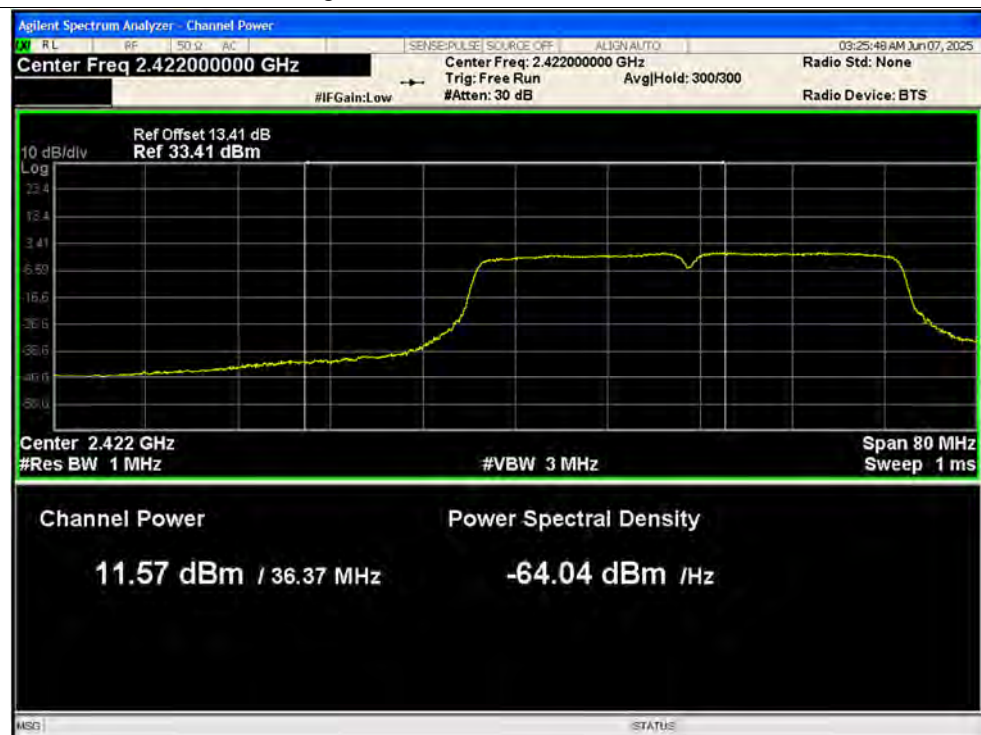
Average Power NVNT n20 2437MHz Ant1



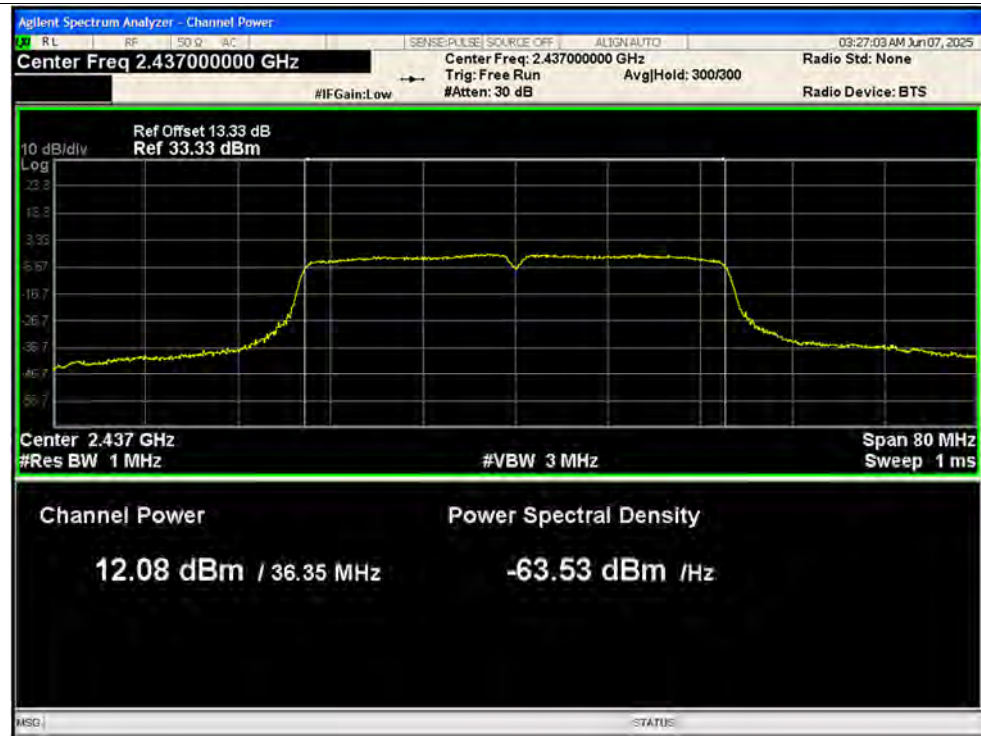
Average Power NVNT n20 2462MHz Ant1



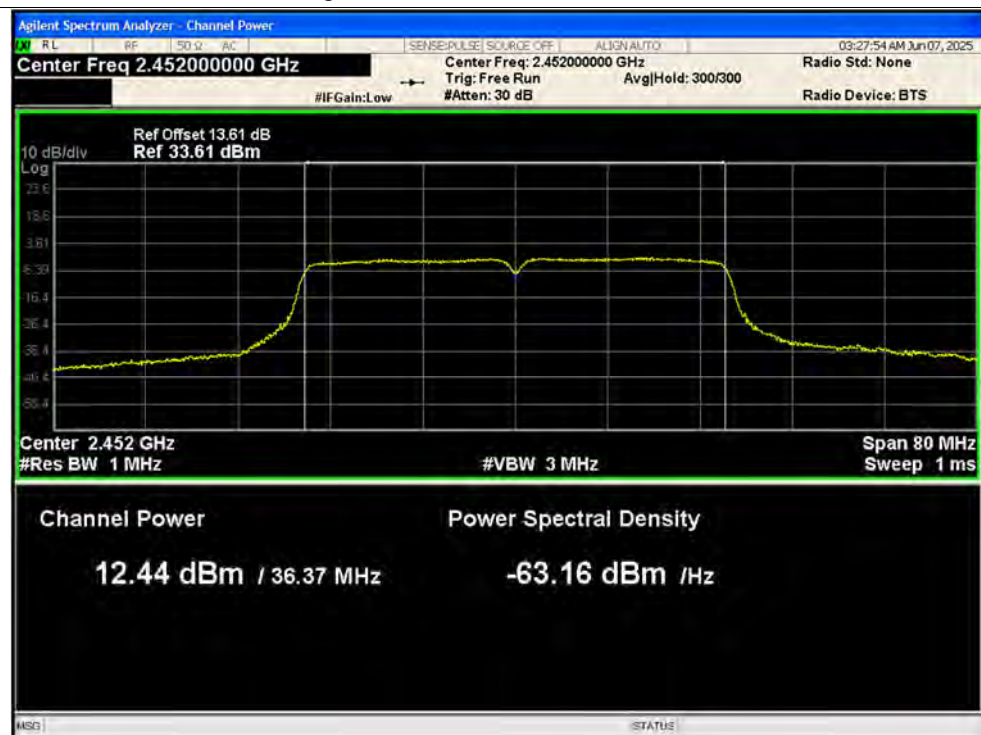
Average Power NVNT n40 2422MHz Ant1



Average Power NVNT n40 2437MHz Ant1



Average Power NVNT n40 2452MHz 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	9.55	0.5	Pass
NVNT	b	2437	Ant1	9.071	0.5	Pass
NVNT	b	2462	Ant1	9.075	0.5	Pass
NVNT	g	2412	Ant1	16.05	0.5	Pass
NVNT	g	2437	Ant1	16.03	0.5	Pass
NVNT	g	2462	Ant1	16.31	0.5	Pass
NVNT	n20	2412	Ant1	17.56	0.5	Pass
NVNT	n20	2437	Ant1	17.57	0.5	Pass
NVNT	n20	2462	Ant1	17.56	0.5	Pass
NVNT	n40	2422	Ant1	47.79	0.5	Pass
NVNT	n40	2437	Ant1	35.31	0.5	Pass
NVNT	n40	2452	Ant1	35.09	0.5	Pass



Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



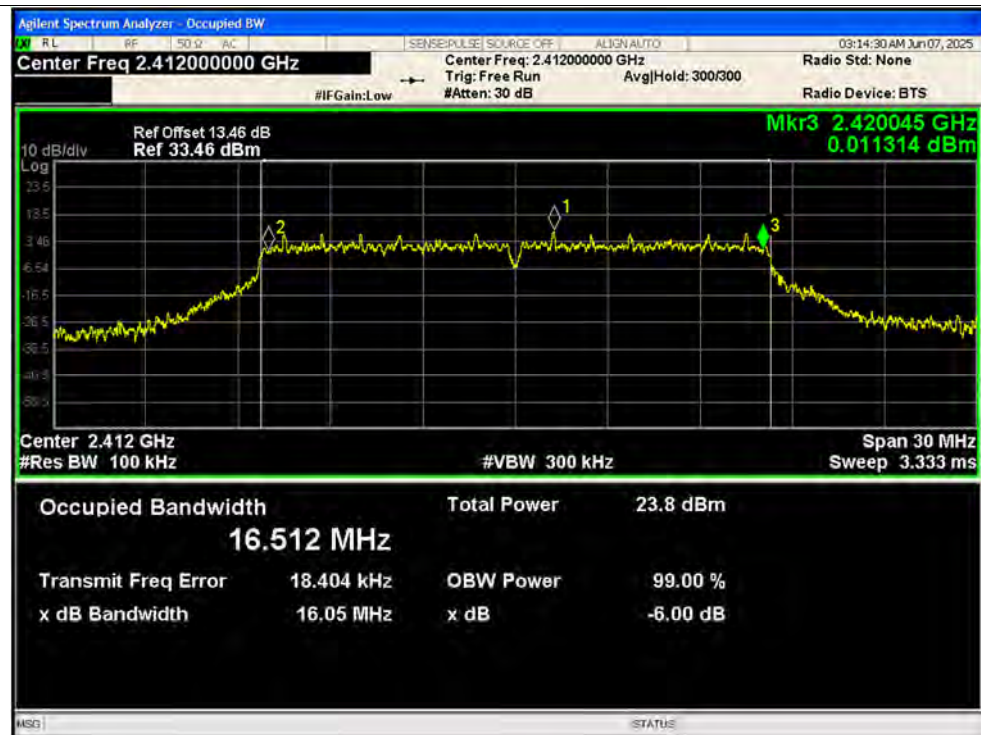
-6dB Bandwidth NVNT b 2437MHz Ant1



-6dB Bandwidth NVNT b 2462MHz Ant1

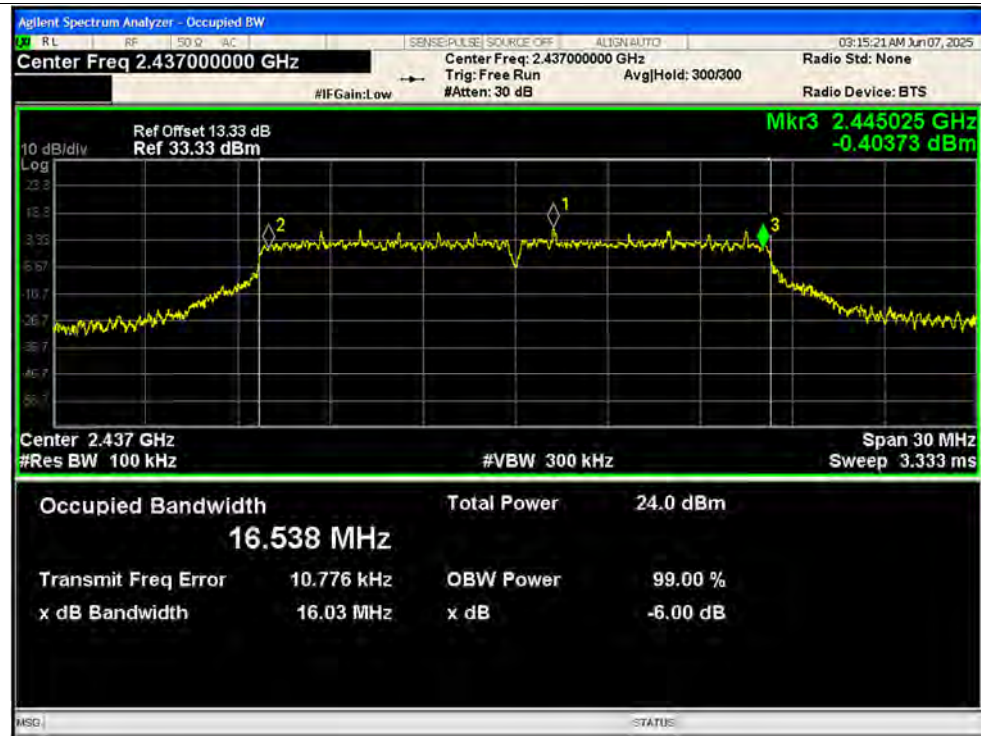


-6dB Bandwidth NVNT g 2412MHz Ant1

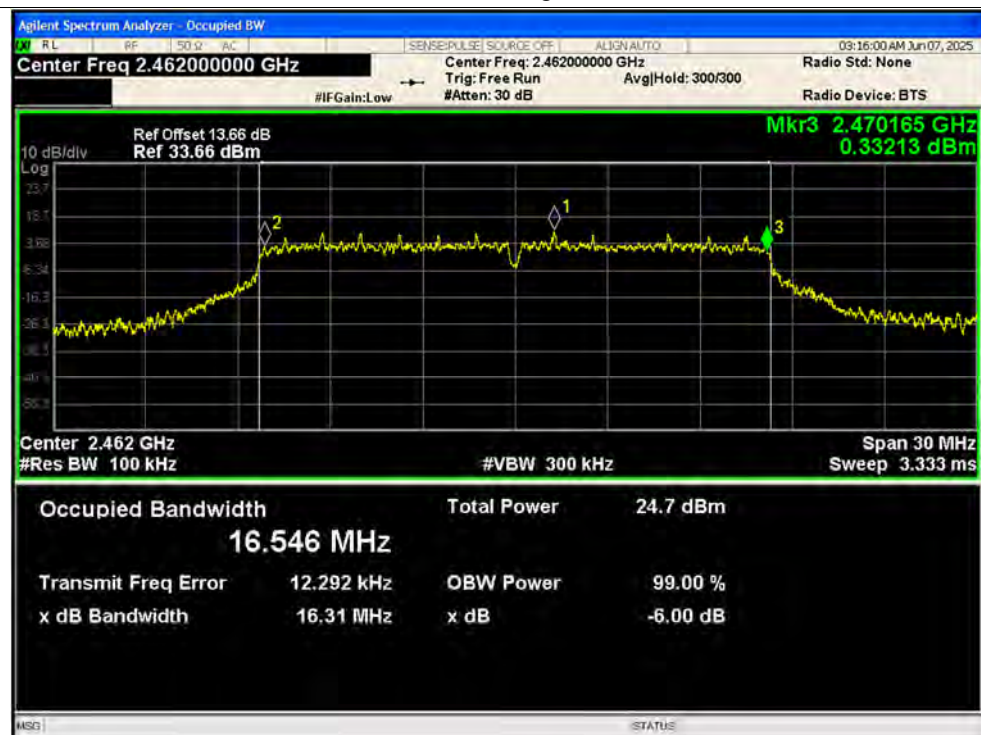




-6dB Bandwidth NVNT g 2437MHz Ant1

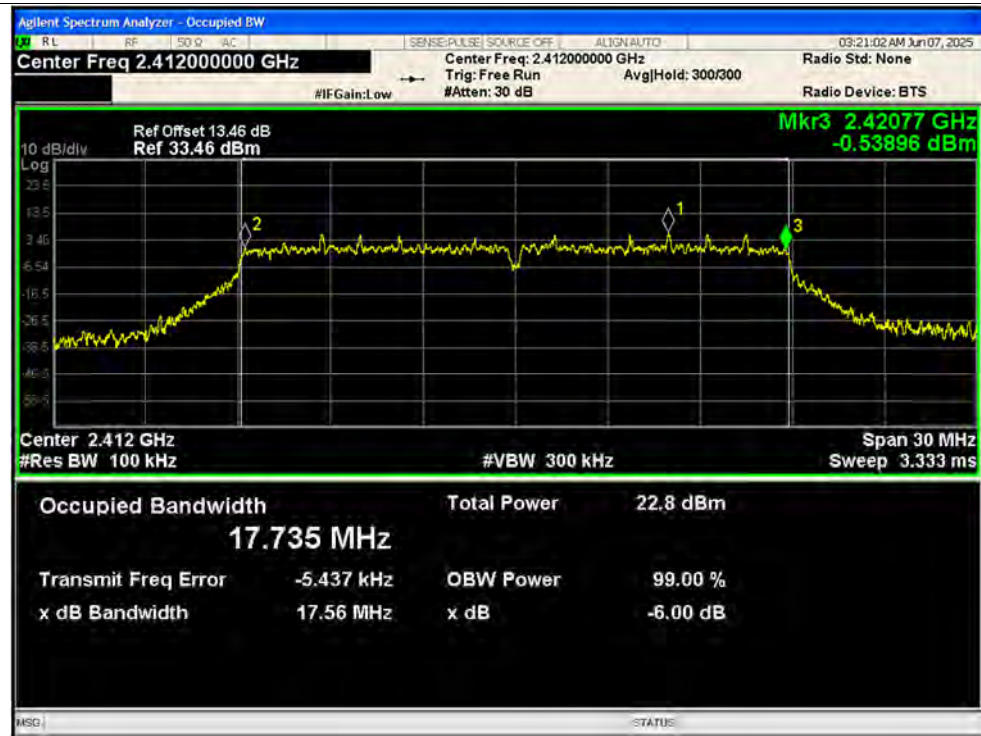


-6dB Bandwidth NVNT g 2462MHz Ant1

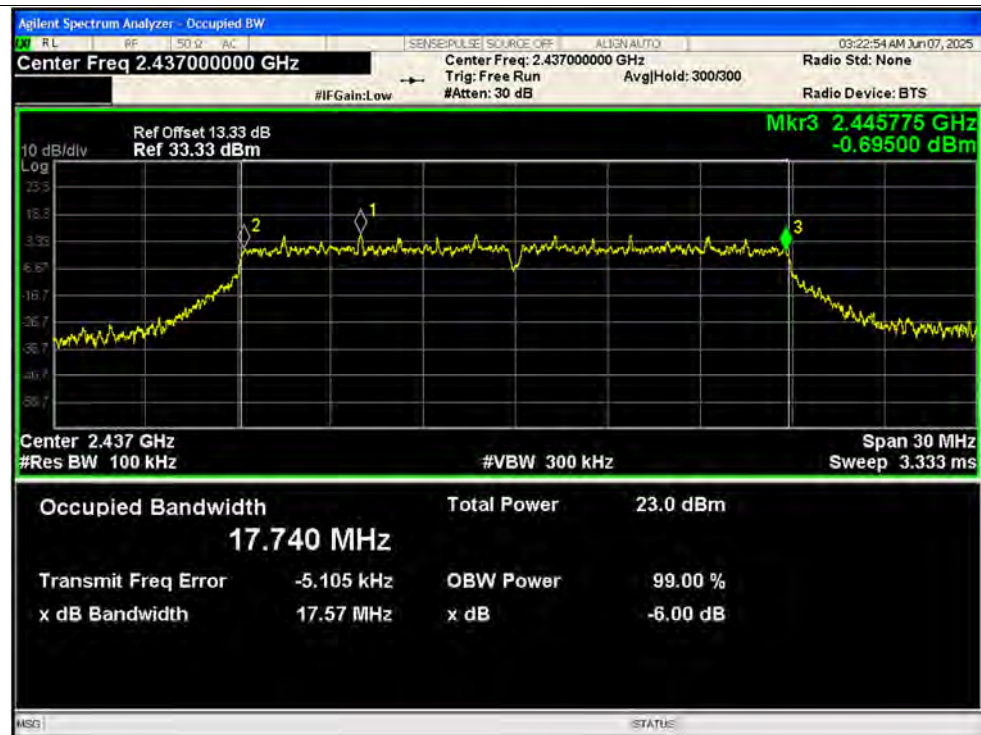




-6dB Bandwidth NVNT n20 2412MHz Ant1

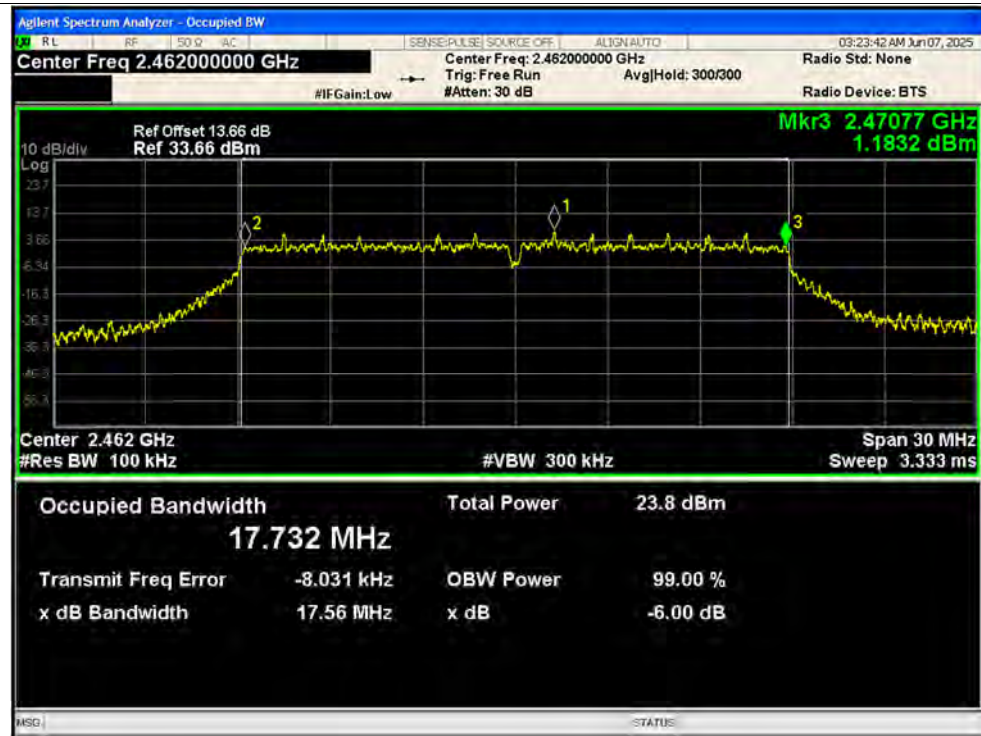


-6dB Bandwidth NVNT n20 2437MHz Ant1

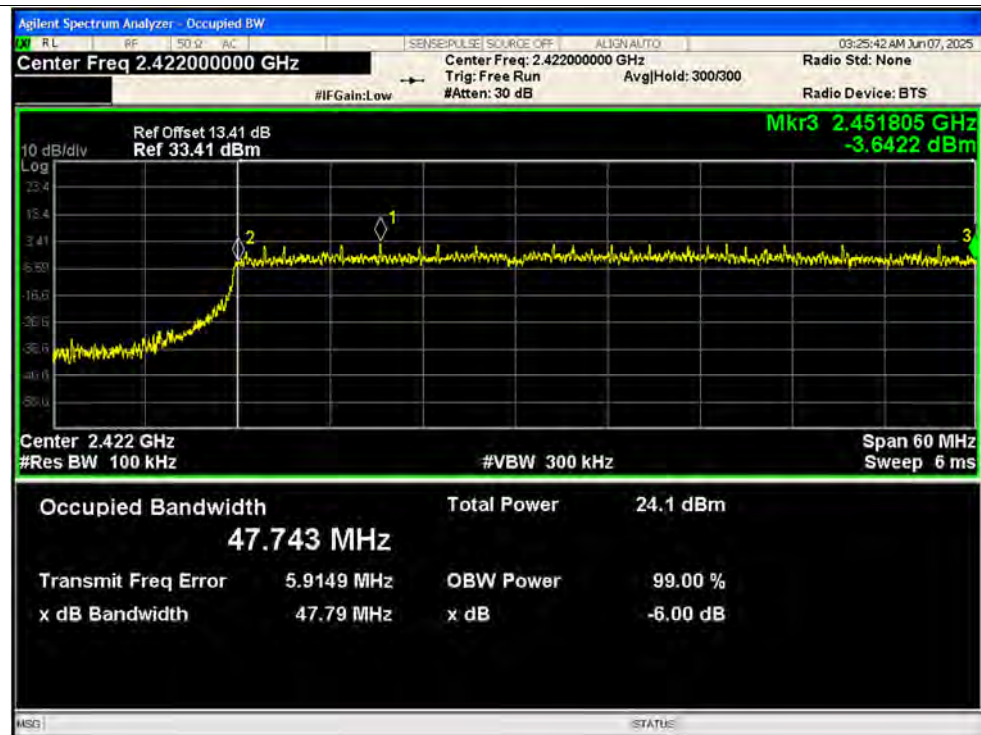




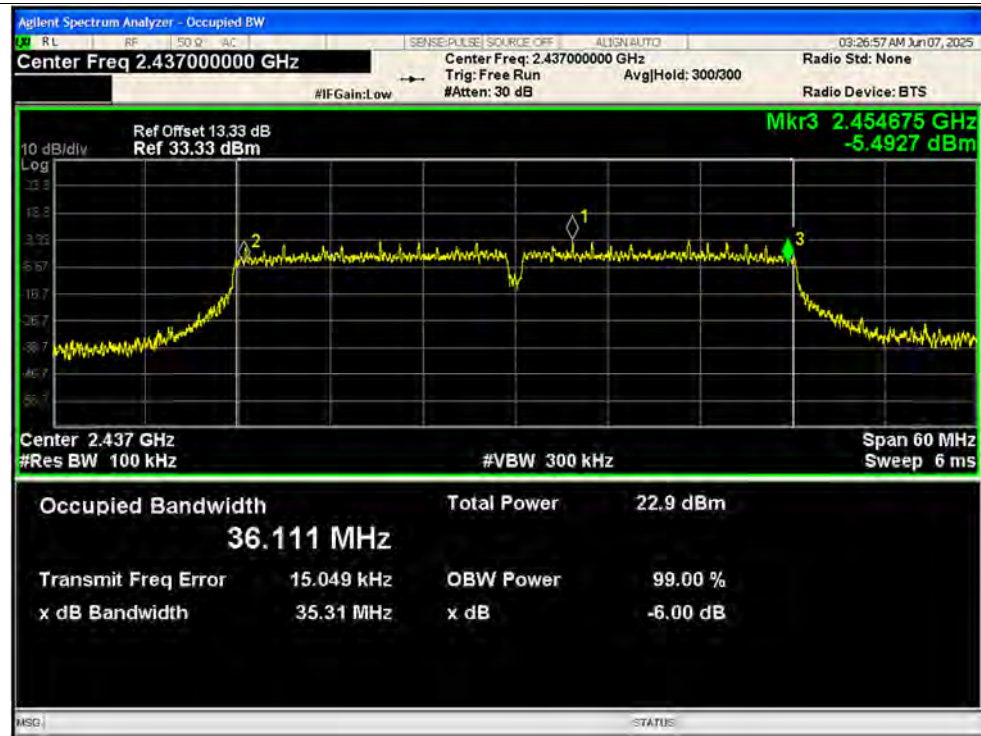
-6dB Bandwidth NVNT n20 2462MHz Ant1



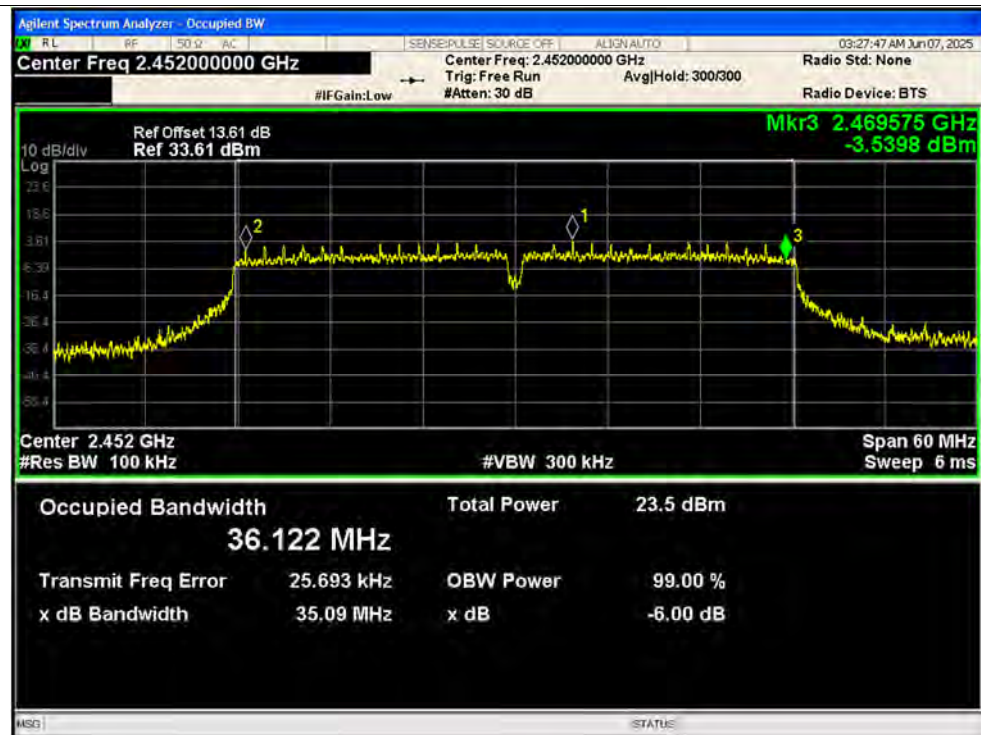
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



**A.5. Conducted Spurious Emissions**

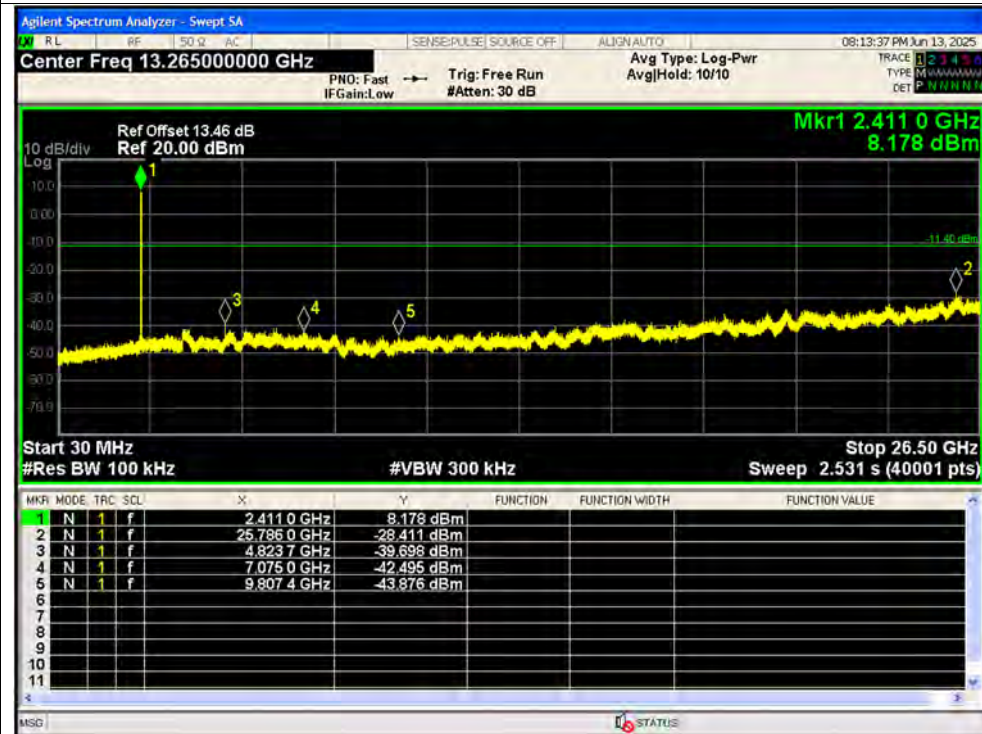
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.01	-20	Pass
NVNT	b	2437	Ant1	-37.75	-20	Pass
NVNT	b	2462	Ant1	-37.85	-20	Pass
NVNT	g	2412	Ant1	-36.93	-20	Pass
NVNT	g	2437	Ant1	-34.84	-20	Pass
NVNT	g	2462	Ant1	-34.96	-20	Pass
NVNT	n20	2412	Ant1	-35.31	-20	Pass
NVNT	n20	2437	Ant1	-35.56	-20	Pass
NVNT	n20	2462	Ant1	-34.05	-20	Pass
NVNT	n40	2422	Ant1	-30.88	-20	Pass
NVNT	n40	2437	Ant1	-31.41	-20	Pass
NVNT	n40	2452	Ant1	-31.75	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



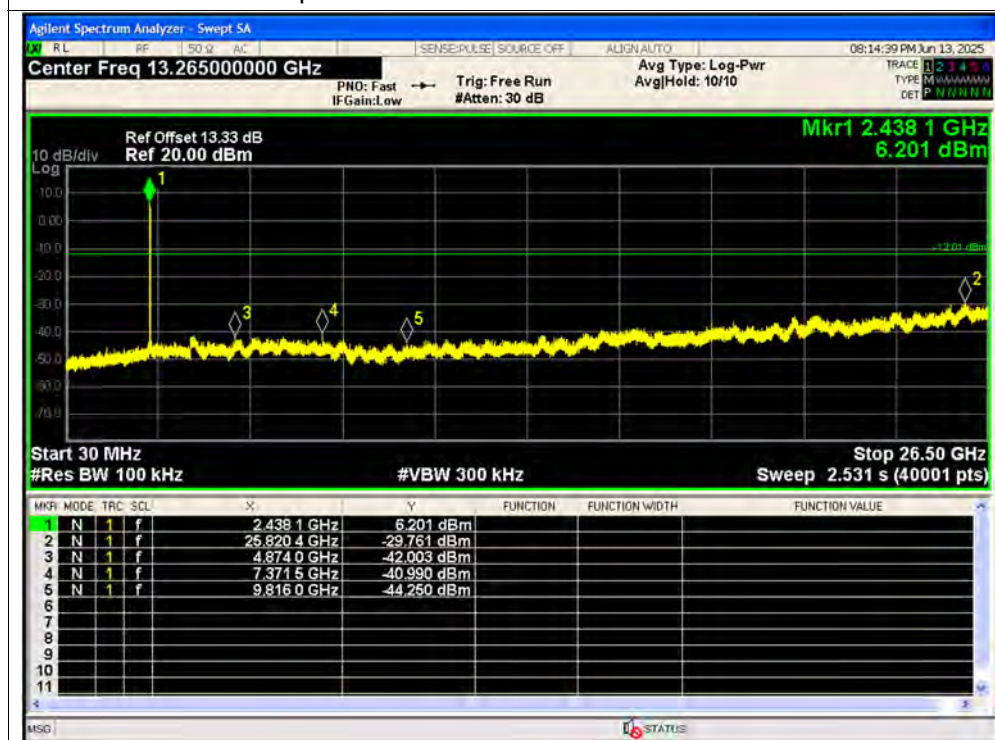
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



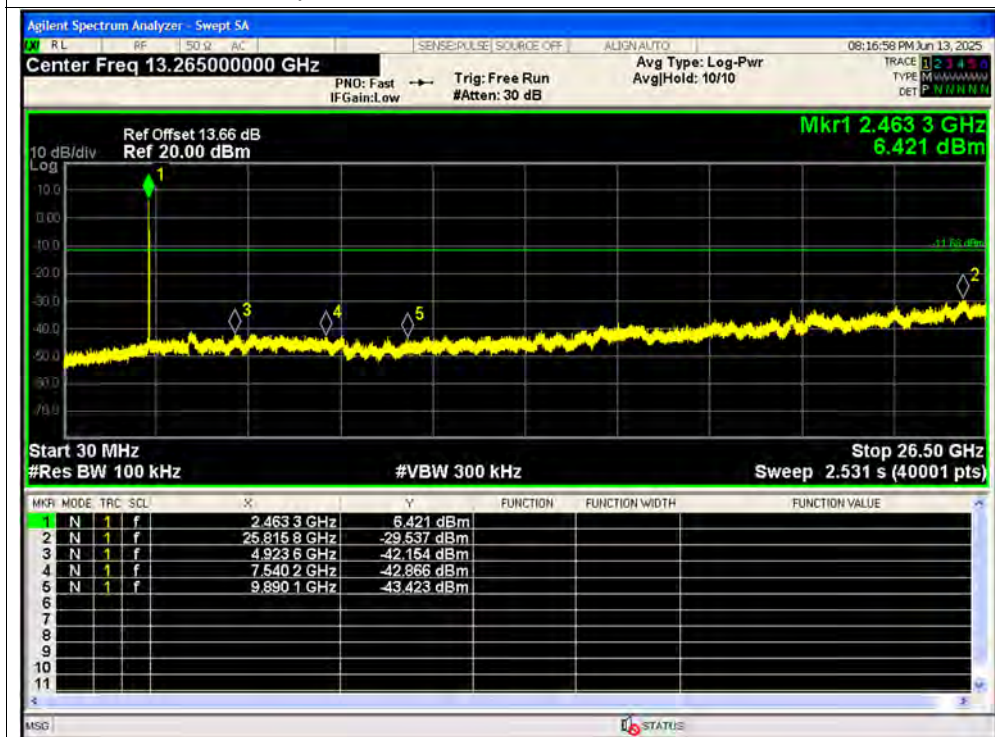
Tx. Spurious NVNT b 2437MHz Ant1 Emission



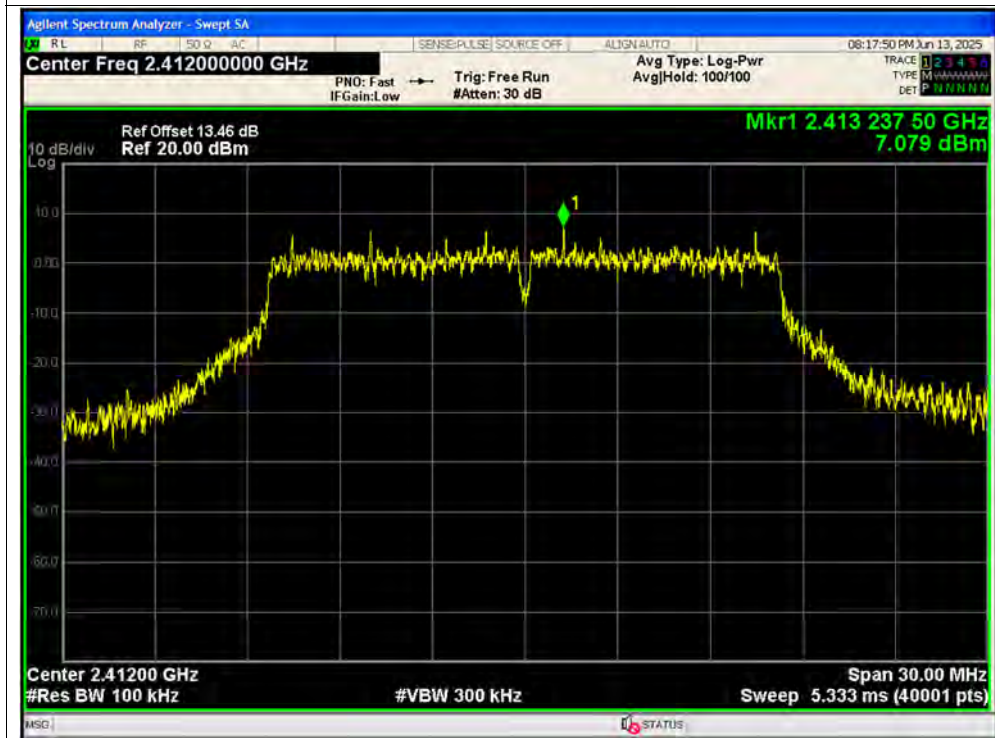
Tx. Spurious NVNT b 2462MHz Ant1 Ref



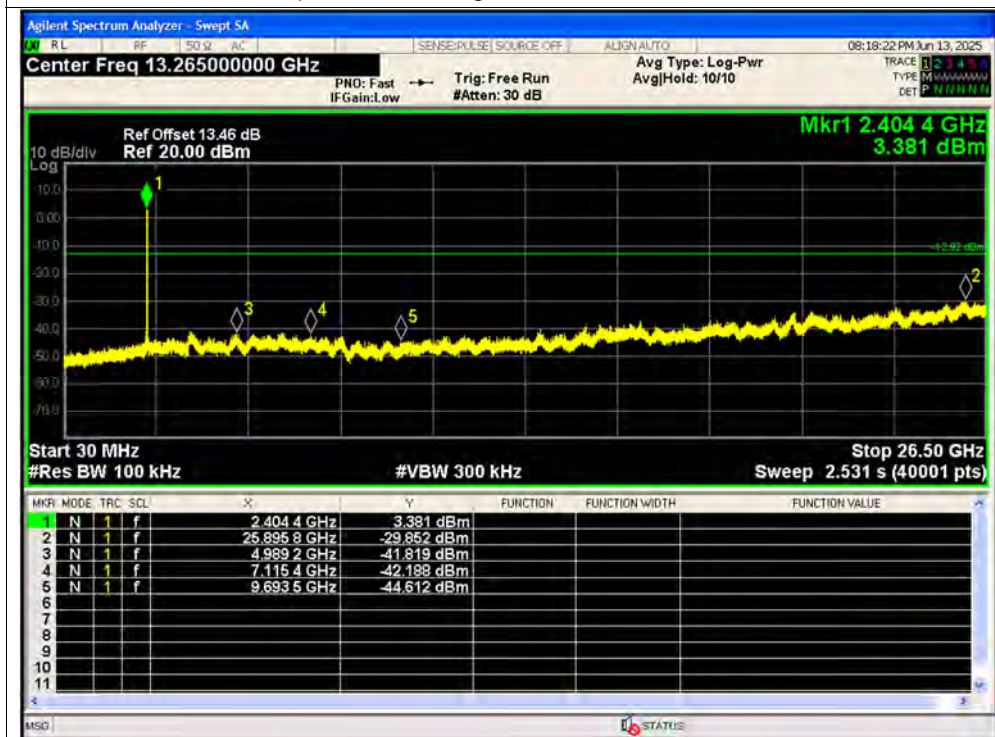
Tx. Spurious NVNT b 2462MHz Ant1 Emission



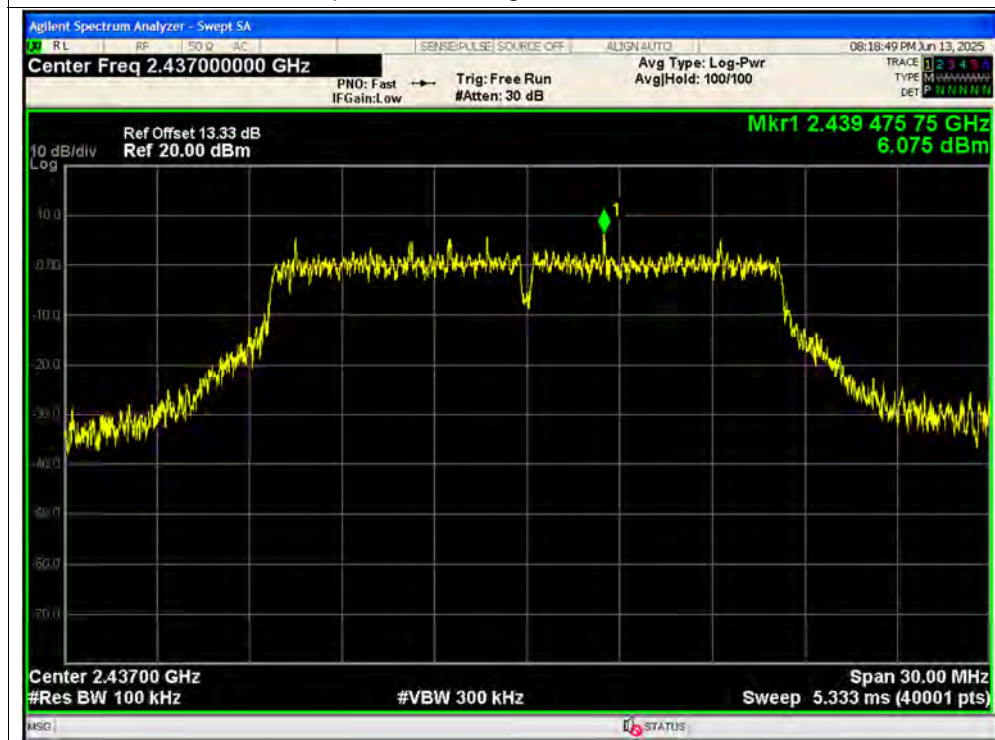
Tx. Spurious NVNT g 2412MHz Ant1 Ref



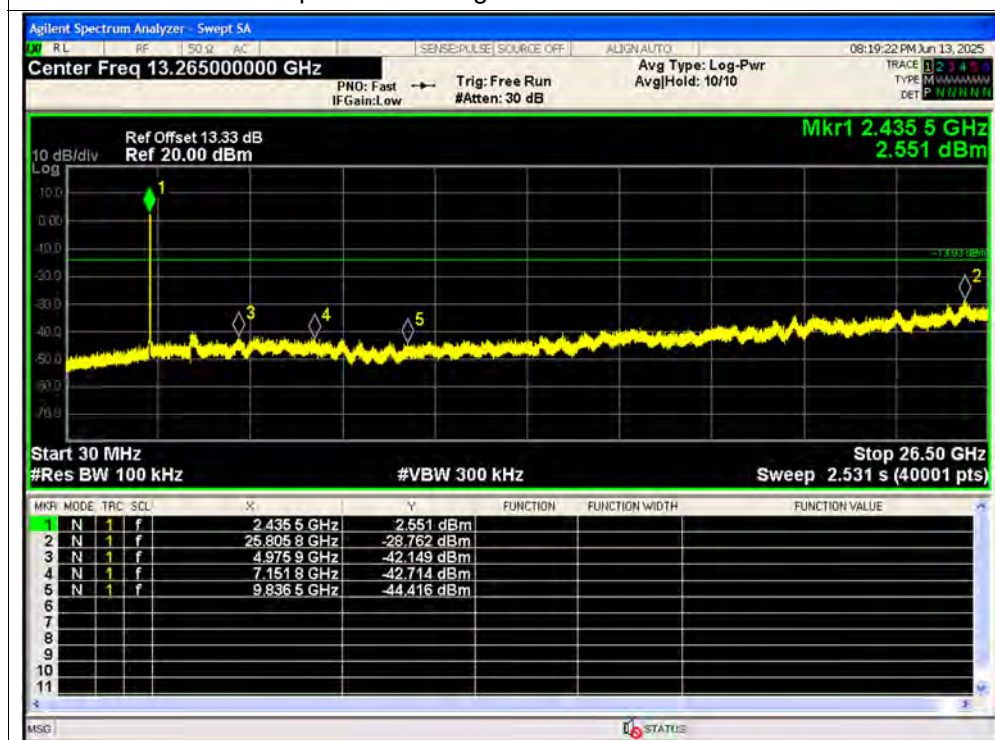
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



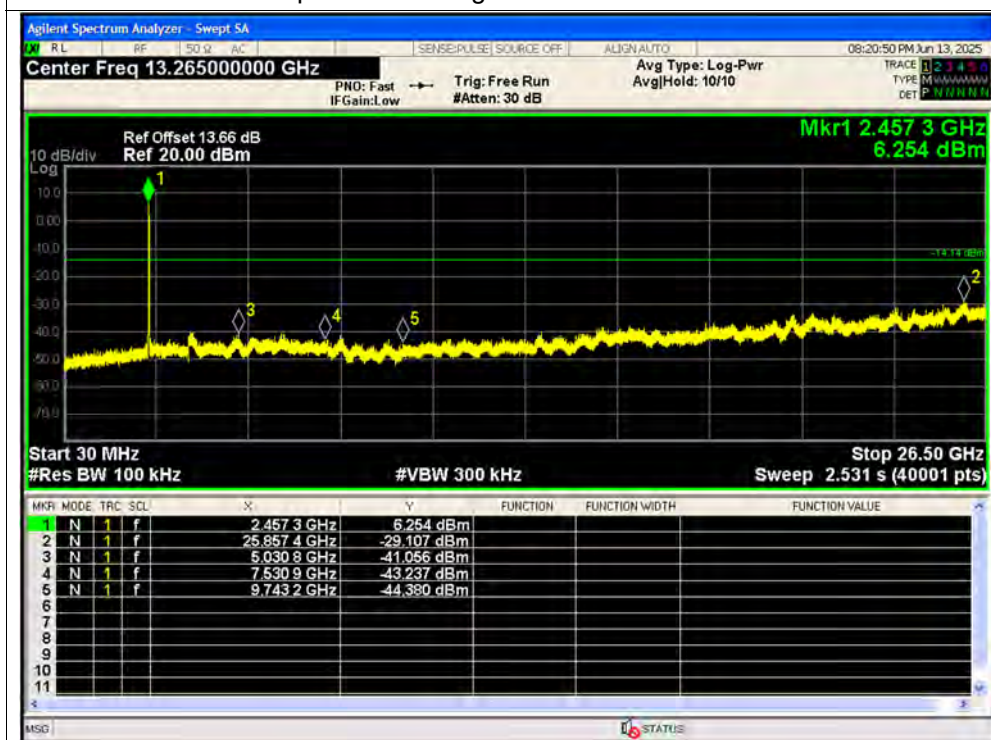
Tx. Spurious NVNT g 2437MHz Ant1 Emission



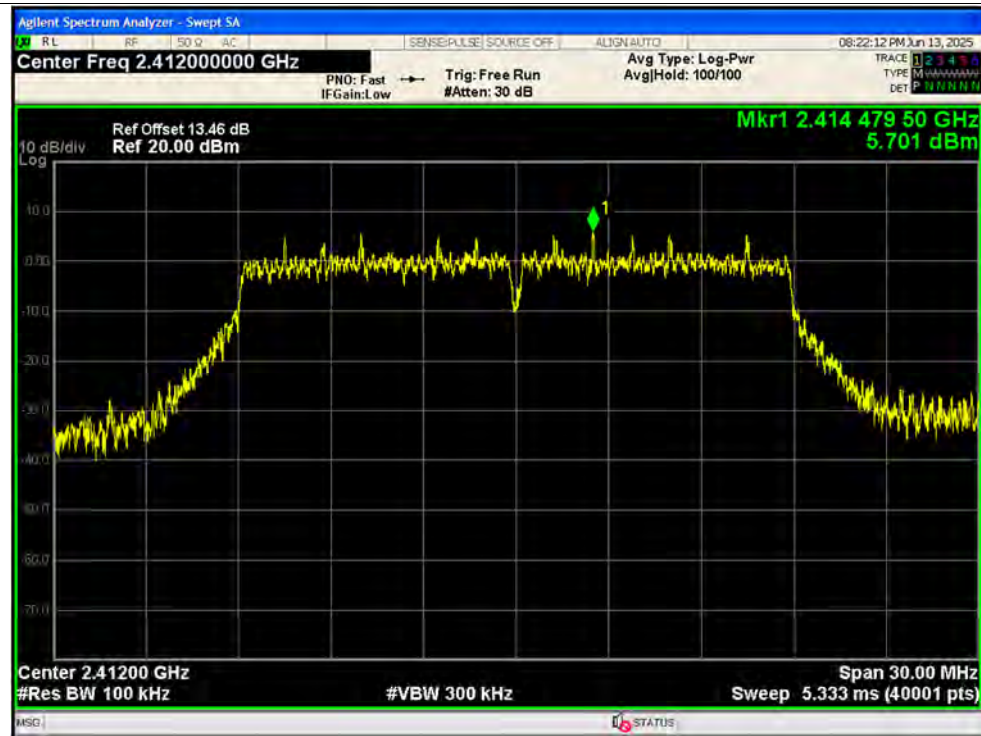
Tx. Spurious NVNT g 2462MHz Ant1 Ref



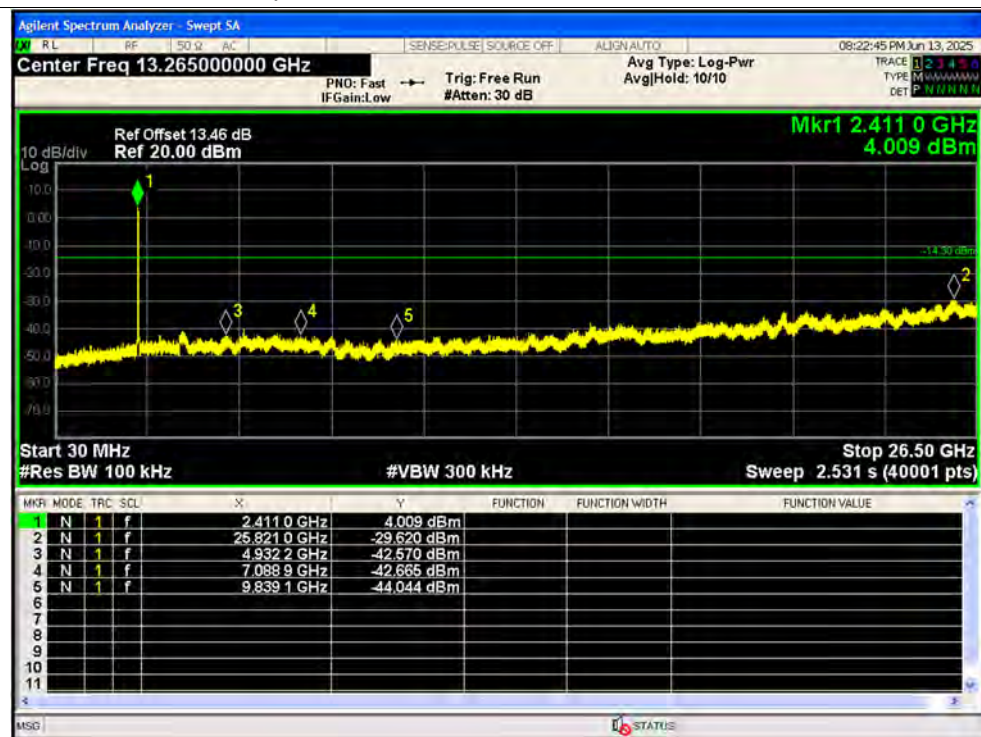
Tx. Spurious NVNT g 2462MHz Ant1 Emission



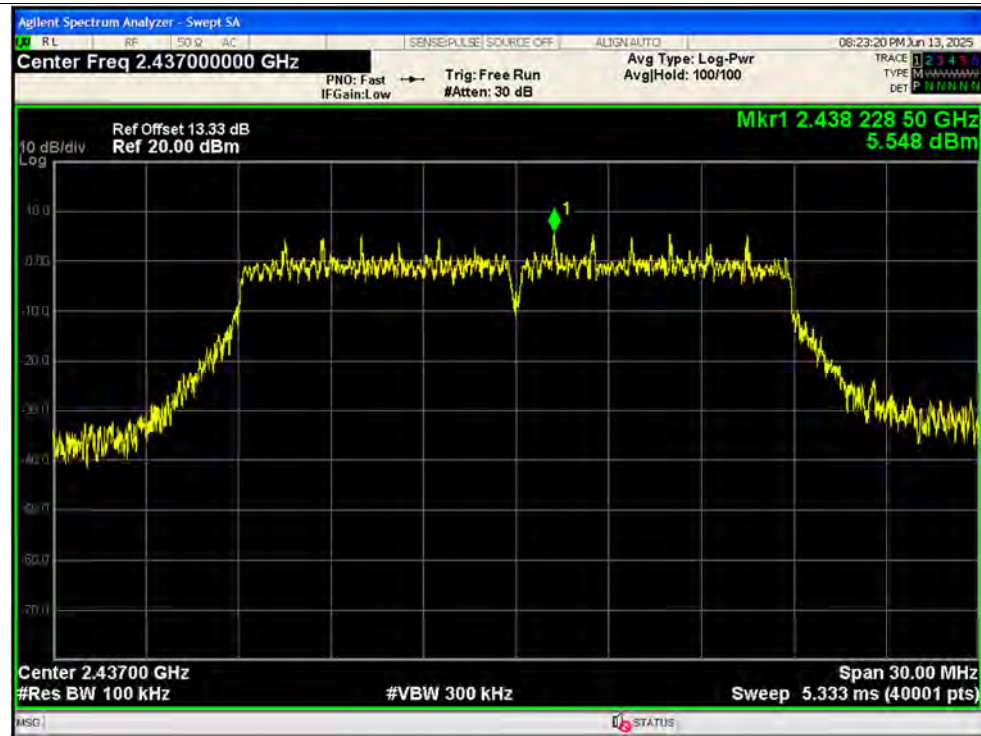
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



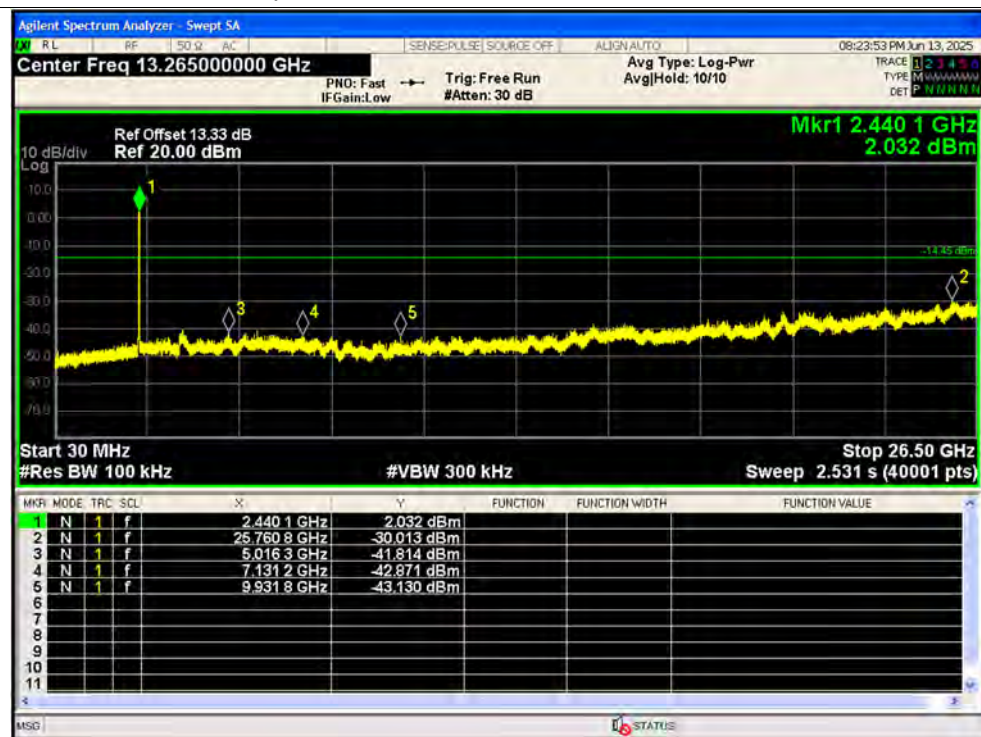
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2437MHz Ant1 Ref



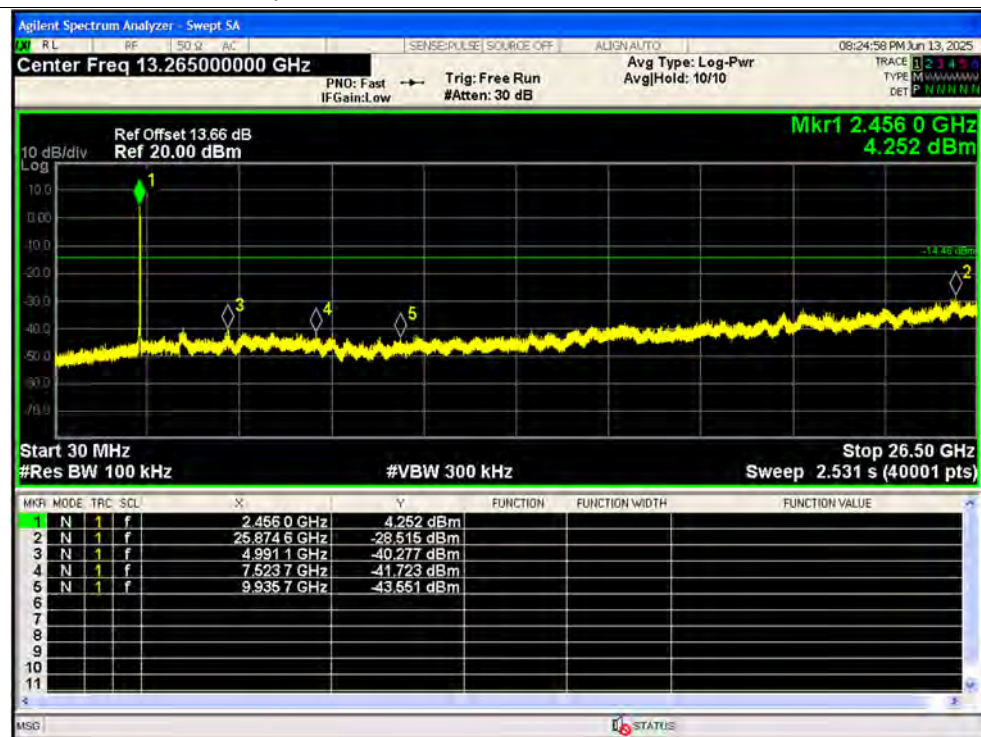
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



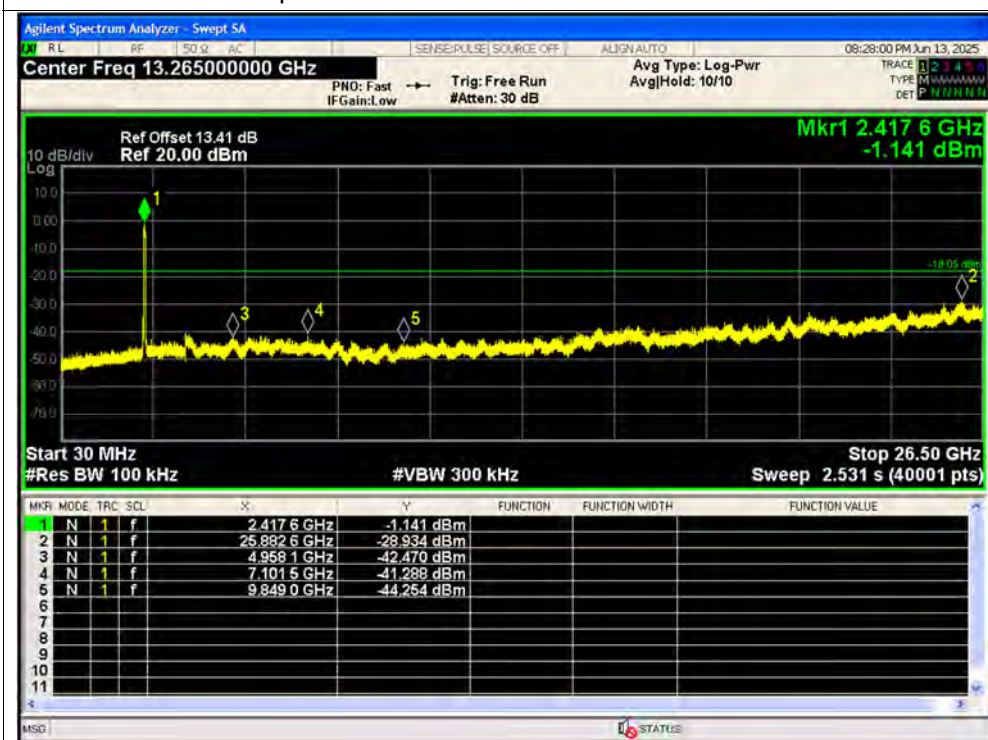
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



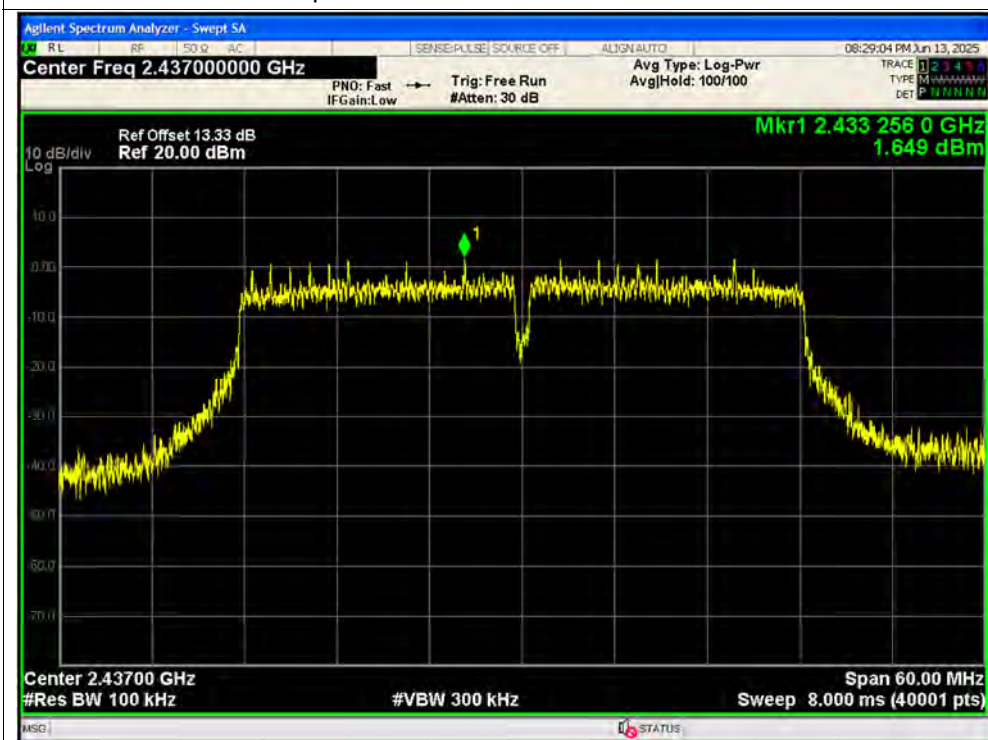
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



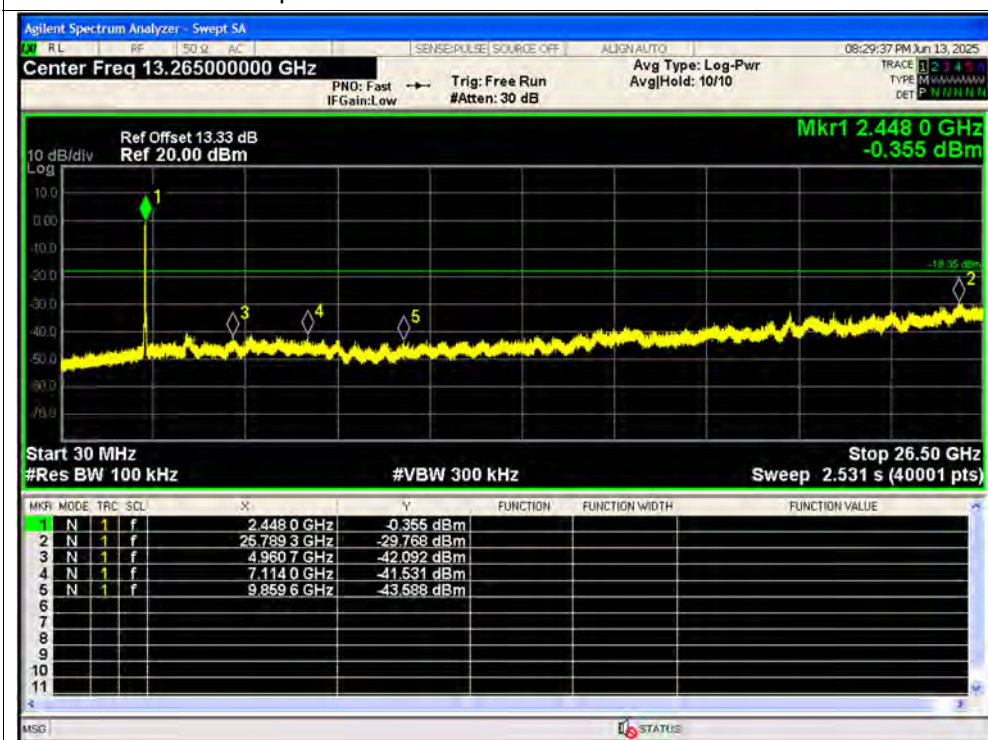
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



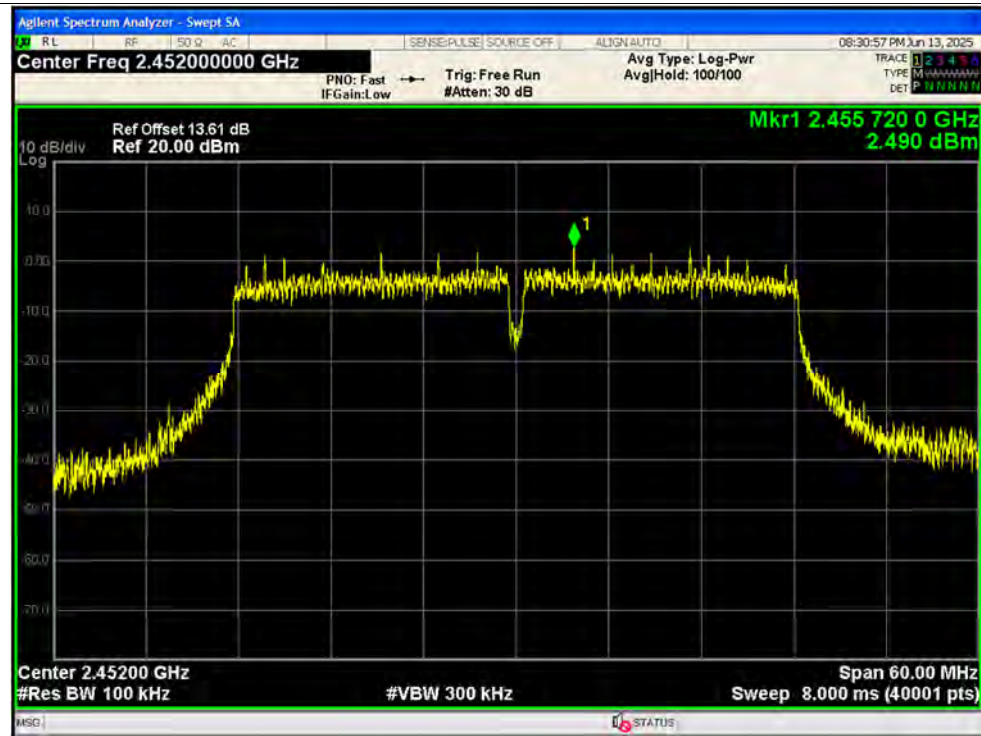
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



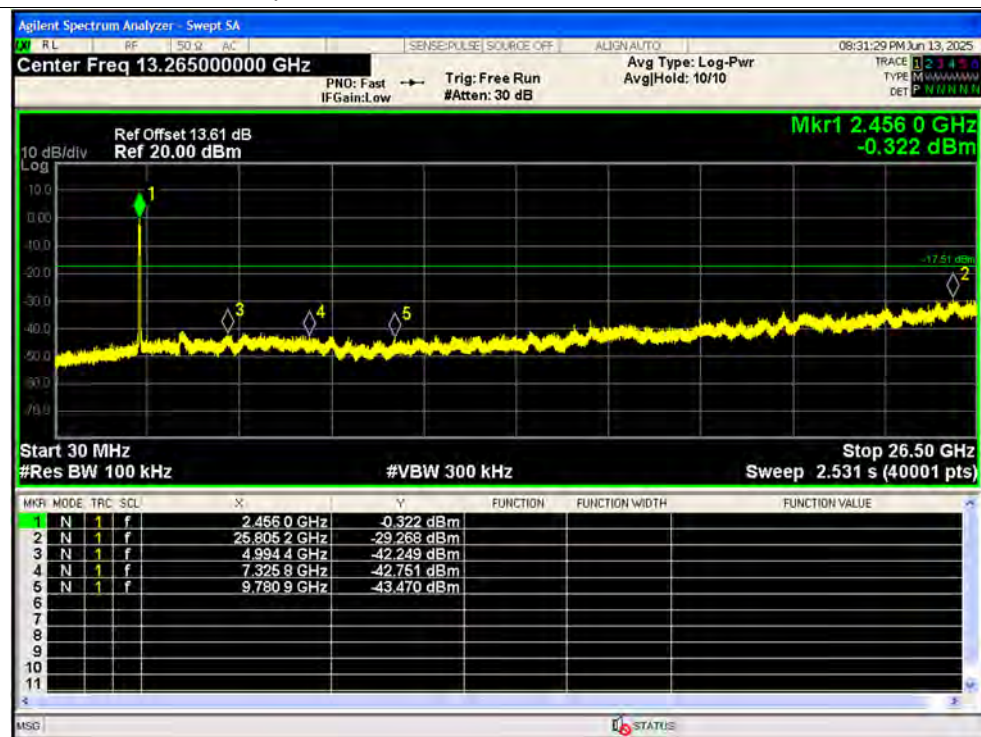
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



**A.6. Band Edge**

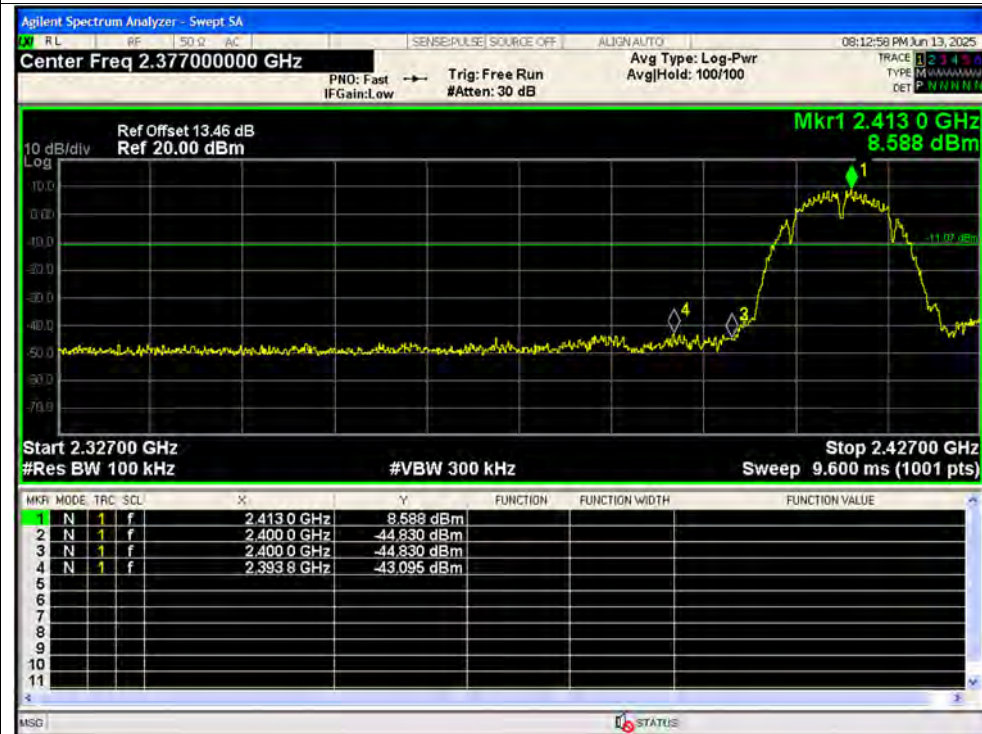
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.02	-20	Pass
NVNT	b	2462	Ant1	-50.56	-20	Pass
NVNT	g	2412	Ant1	-33.57	-20	Pass
NVNT	g	2462	Ant1	-43.28	-20	Pass
NVNT	n20	2412	Ant1	-33.33	-20	Pass
NVNT	n20	2462	Ant1	-40.5	-20	Pass
NVNT	n40	2422	Ant1	-33.1	-20	Pass
NVNT	n40	2452	Ant1	-35.28	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



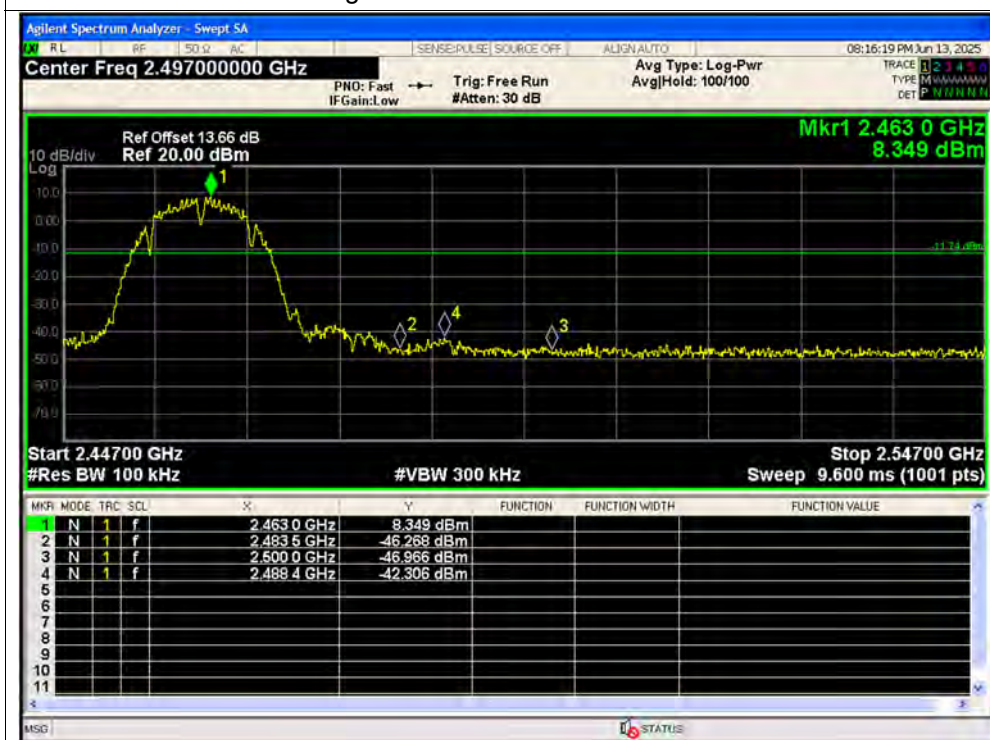
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



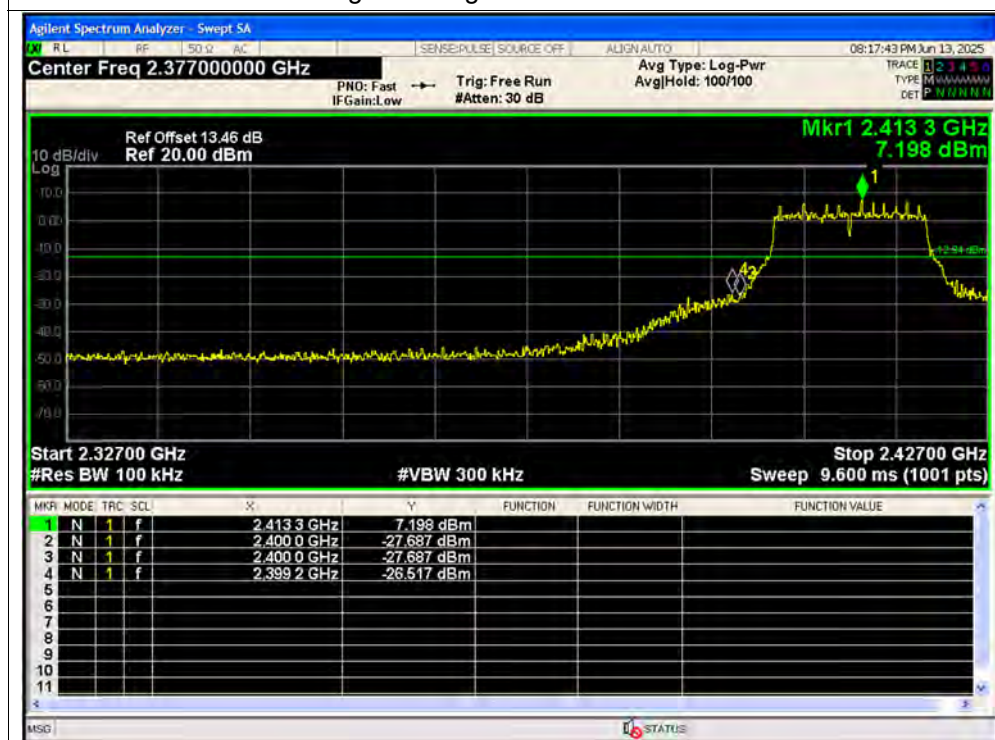
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



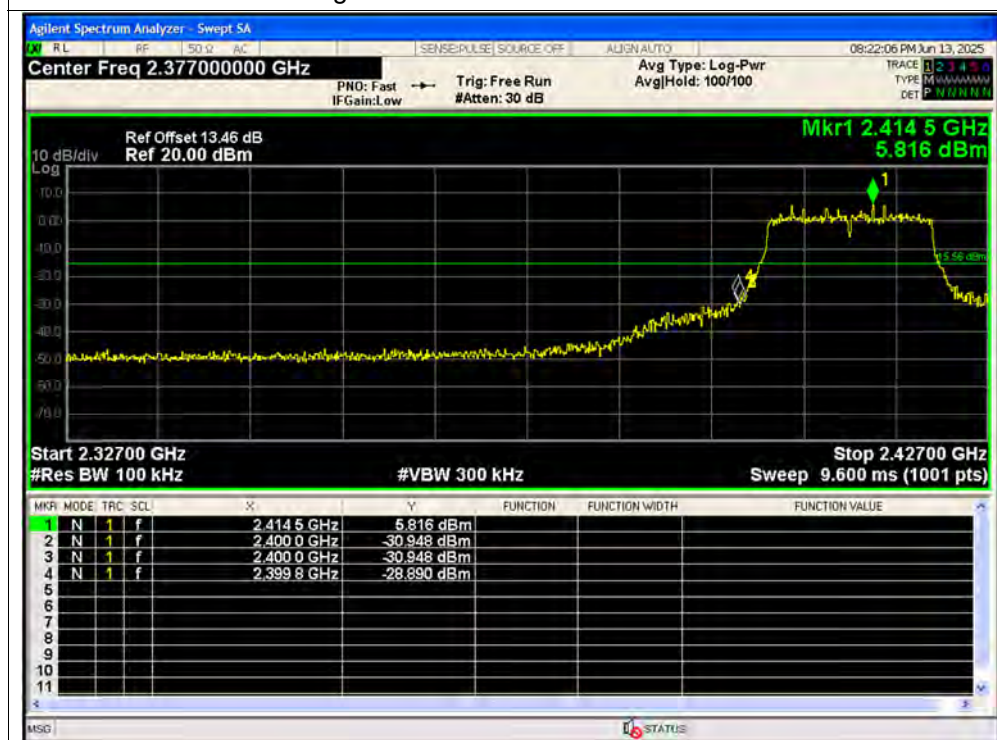
Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



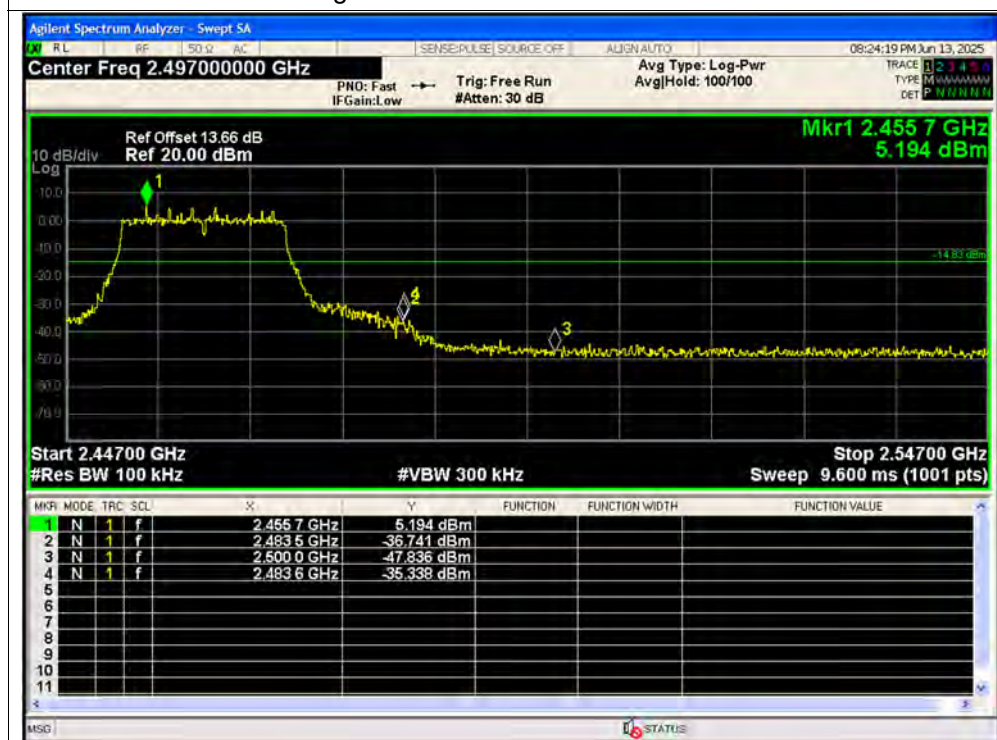
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



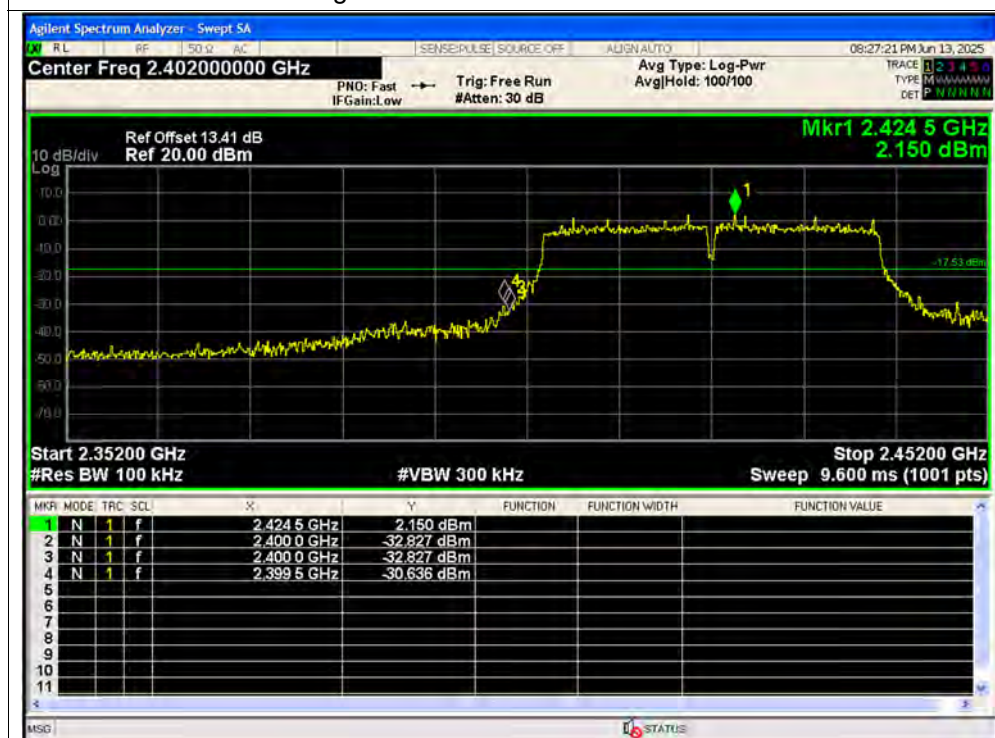
Band Edge NVNT n20 2462MHz Ant1 Emission



Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz 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	-5.95	0	-5.95	8	Pass
NVNT	b	2437	Ant1	-6.41	0	-6.41	8	Pass
NVNT	b	2462	Ant1	-6.06	0	-6.06	8	Pass
NVNT	g	2412	Ant1	-7.29	0	-7.29	8	Pass
NVNT	g	2437	Ant1	-7.93	0	-7.93	8	Pass
NVNT	g	2462	Ant1	-7.86	0	-7.86	8	Pass
NVNT	n20	2412	Ant1	-8.27	0	-8.27	8	Pass
NVNT	n20	2437	Ant1	-8.9	0	-8.9	8	Pass
NVNT	n20	2462	Ant1	-9.59	0	-9.59	8	Pass
NVNT	n40	2422	Ant1	-11.89	0	-11.89	8	Pass
NVNT	n40	2437	Ant1	-12.62	0	-12.62	8	Pass
NVNT	n40	2452	Ant1	-12.37	0	-12.37	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1





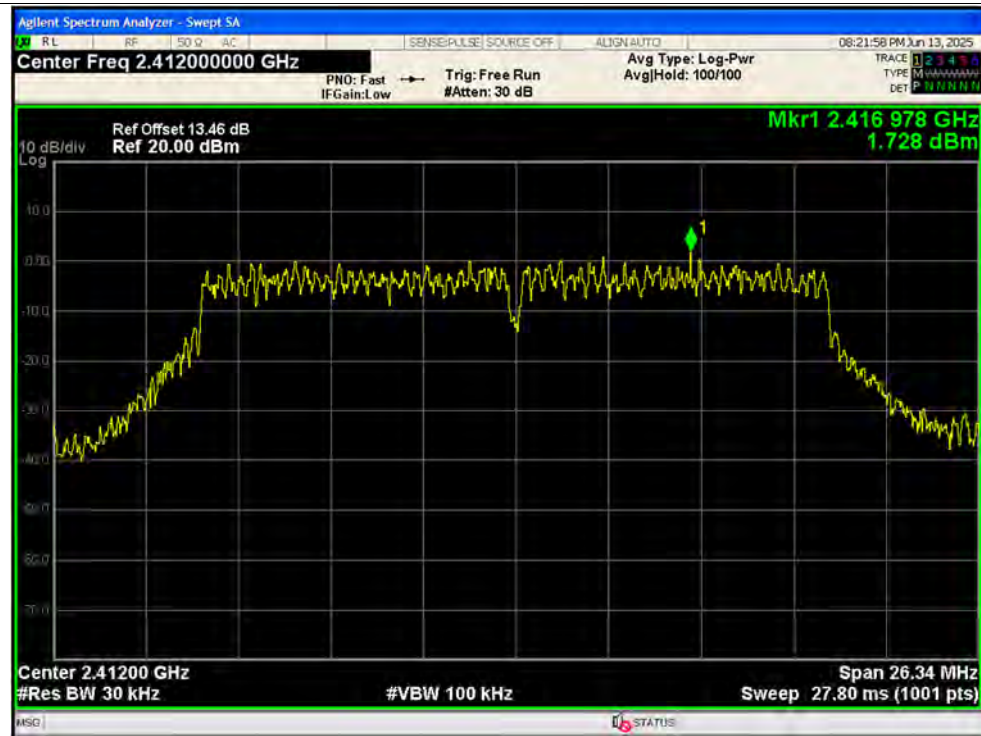
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz 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+ LED LAMP+Mobile phone +WIFI TX

Test voltage: AC 120V/60Hz

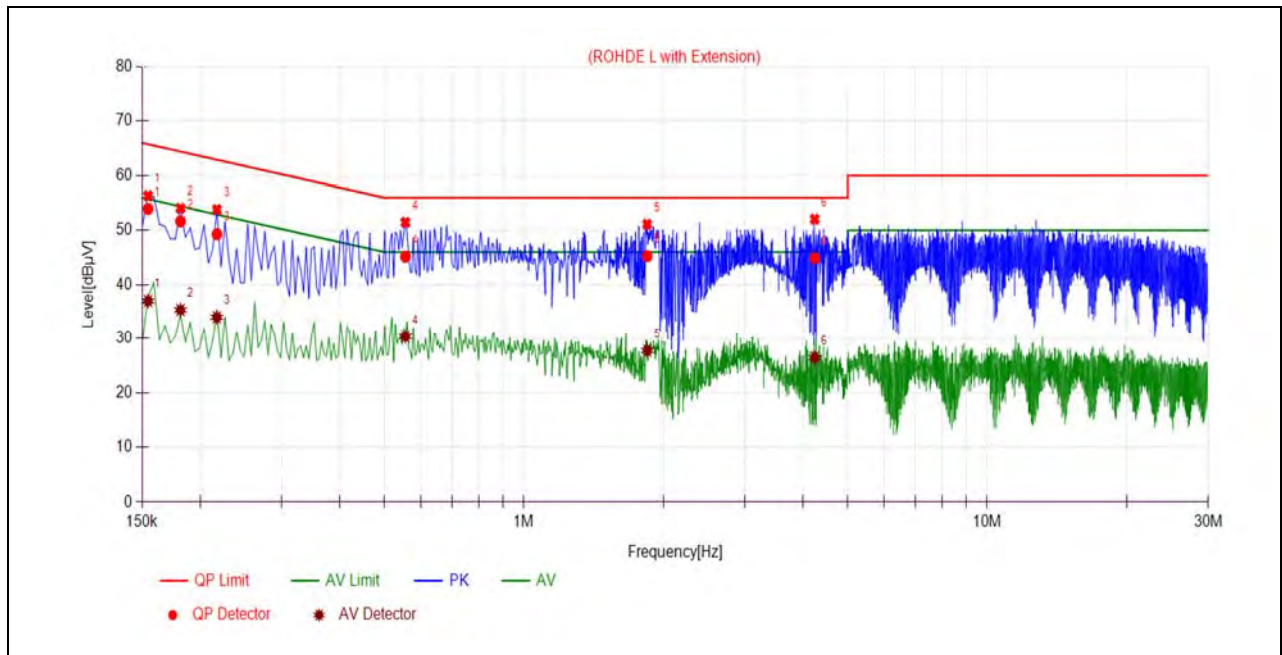
The measurement results are obtained as below:

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

U_R : Receiver Reading

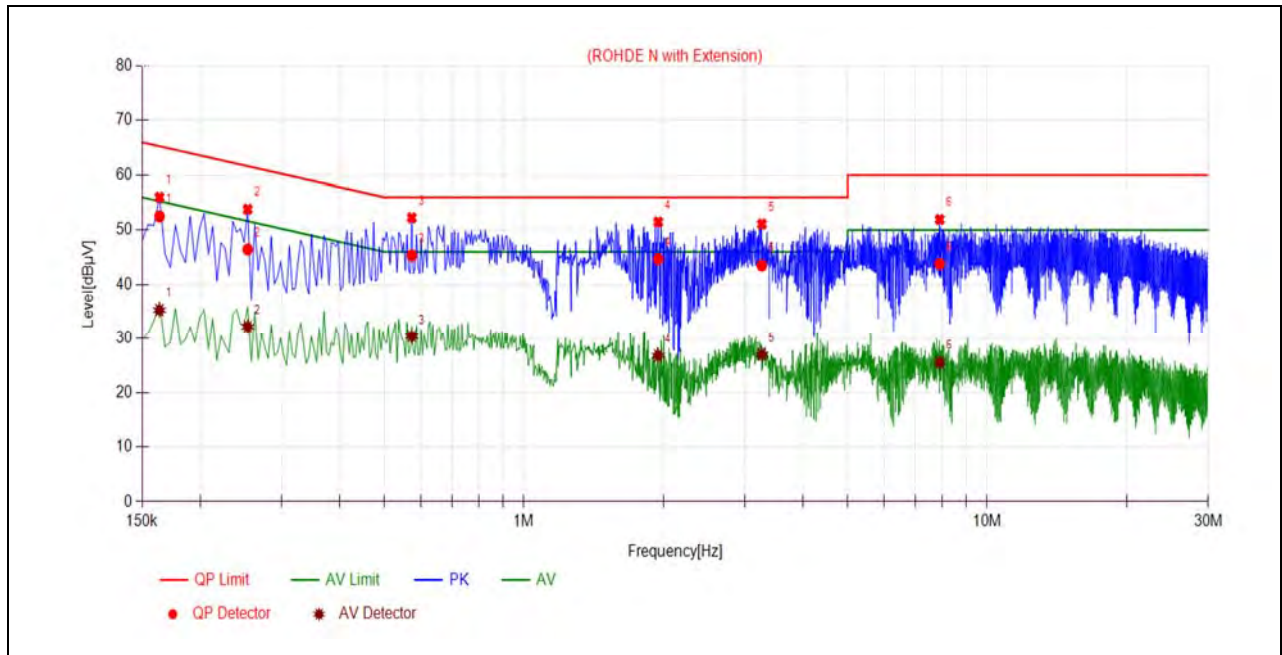
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1545	53.95	37.00	65.76	55.76	Line	PASS
2	0.1815	51.67	35.34	64.42	54.42		PASS
3	0.2175	49.31	34.00	62.91	52.91		PASS
4	0.5550	45.17	30.34	56.00	46.00		PASS
5	1.8466	45.26	27.74	56.00	46.00		PASS
6	4.2447	44.89	26.44	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1635	52.52	35.30	65.28	55.28	Neutral	PASS
2	0.2535	46.47	32.23	61.64	51.64		PASS
3	0.5730	45.34	30.40	56.00	46.00		PASS
4	1.9501	44.68	26.82	56.00	46.00		PASS
5	3.2638	43.51	27.01	56.00	46.00		PASS
6	7.8988	43.79	25.54	60.00	50.00		PASS

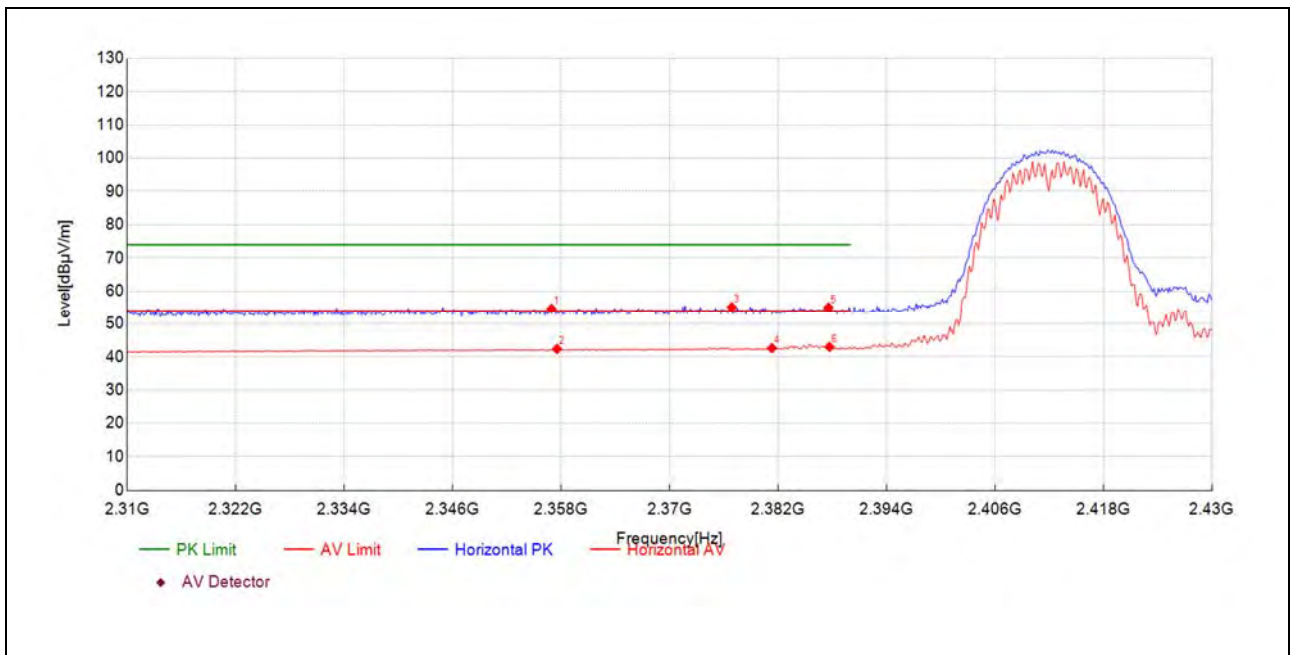
A.9. Restricted Frequency Bands

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Horizontal) 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

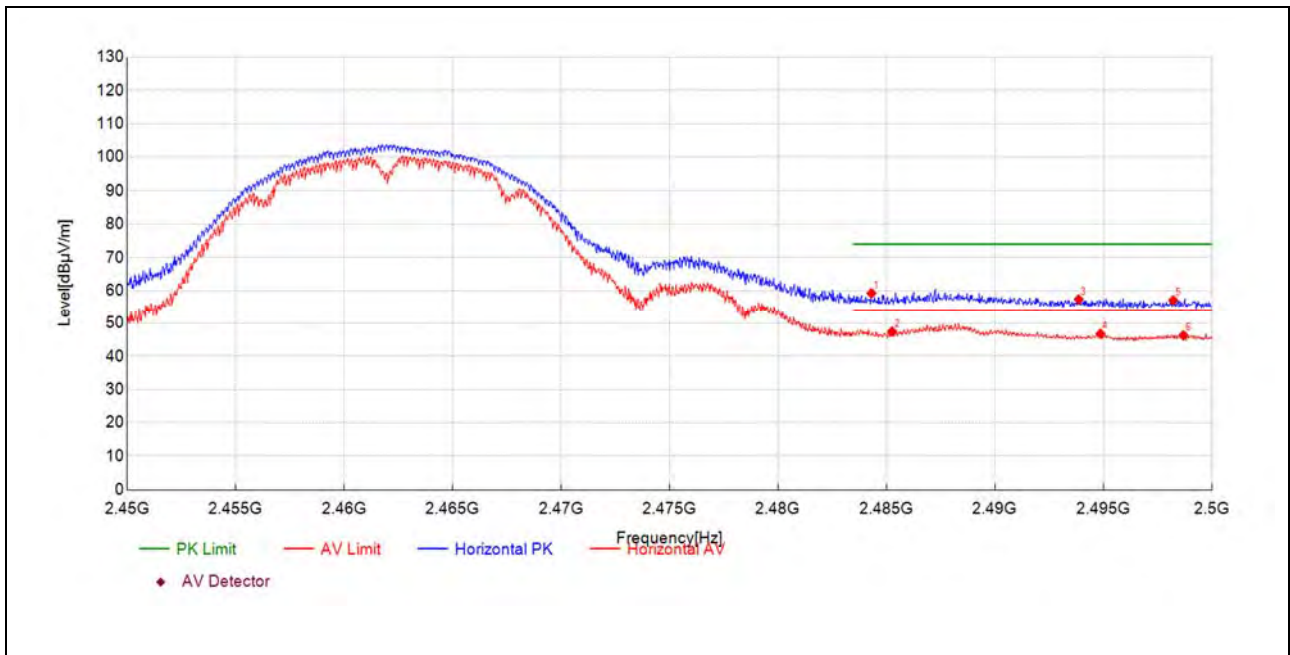
Plot for Channel 1



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2356.97	22.2	54.64	32.420	74.00	19.36	150	182	PK	PASS
2357.57	9.9	42.35	32.430	54.00	11.65	150	161	AV	PASS
2376.91	22.6	55.12	32.490	74.00	18.88	150	125	PK	PASS
2381.35	10.1	42.58	32.510	54.00	11.42	150	154	AV	PASS
2387.60	22.5	55.04	32.540	74.00	18.96	150	0	PK	PASS
2387.72	10.4	42.98	32.540	54.00	11.02	150	147	AV	PASS



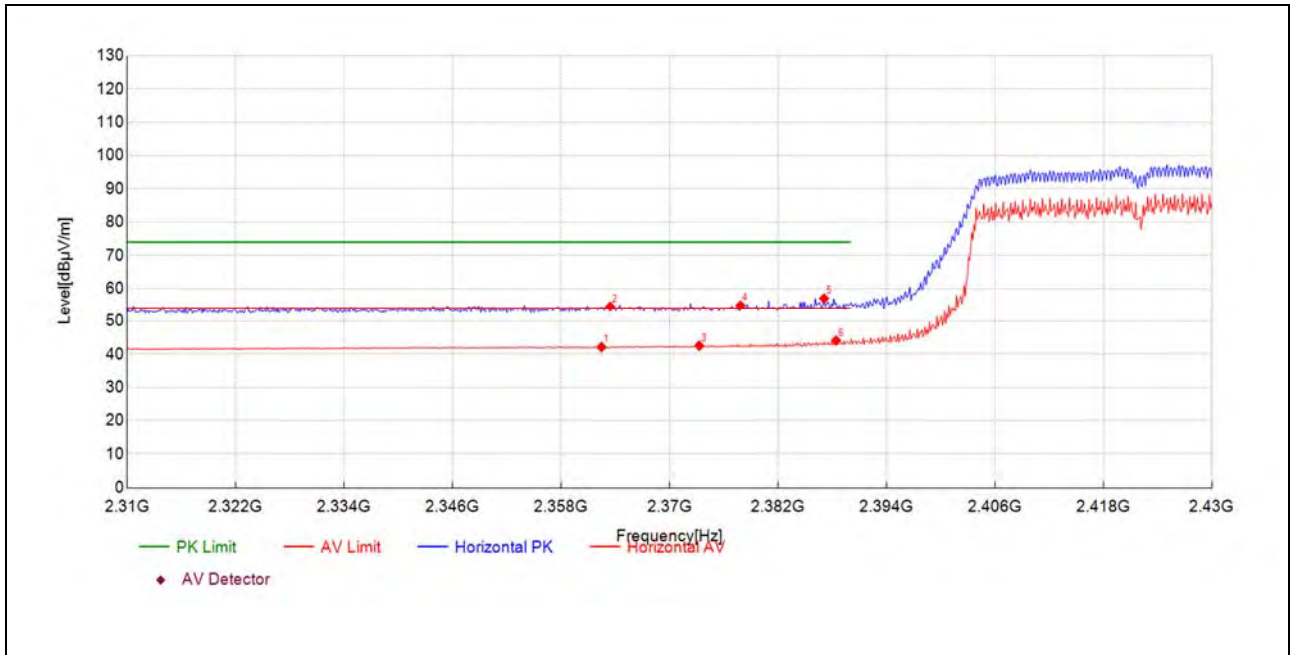
Plot for Channel 11



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.32	26.2	59.23	33.030	74.00	14.77	150	154	PK	PASS
2485.27	14.4	47.46	33.030	54.00	6.54	150	163	AV	PASS
2493.87	24.4	57.37	33.010	74.00	16.63	150	239	PK	PASS
2494.87	13.8	46.76	33.010	54.00	7.24	150	247	AV	PASS
2498.22	24.1	57.09	33.000	74.00	16.91	150	239	PK	PASS
2498.70	13.3	46.28	33.000	54.00	7.72	150	147	AV	PASS

**802.11n (HT40) Mode**

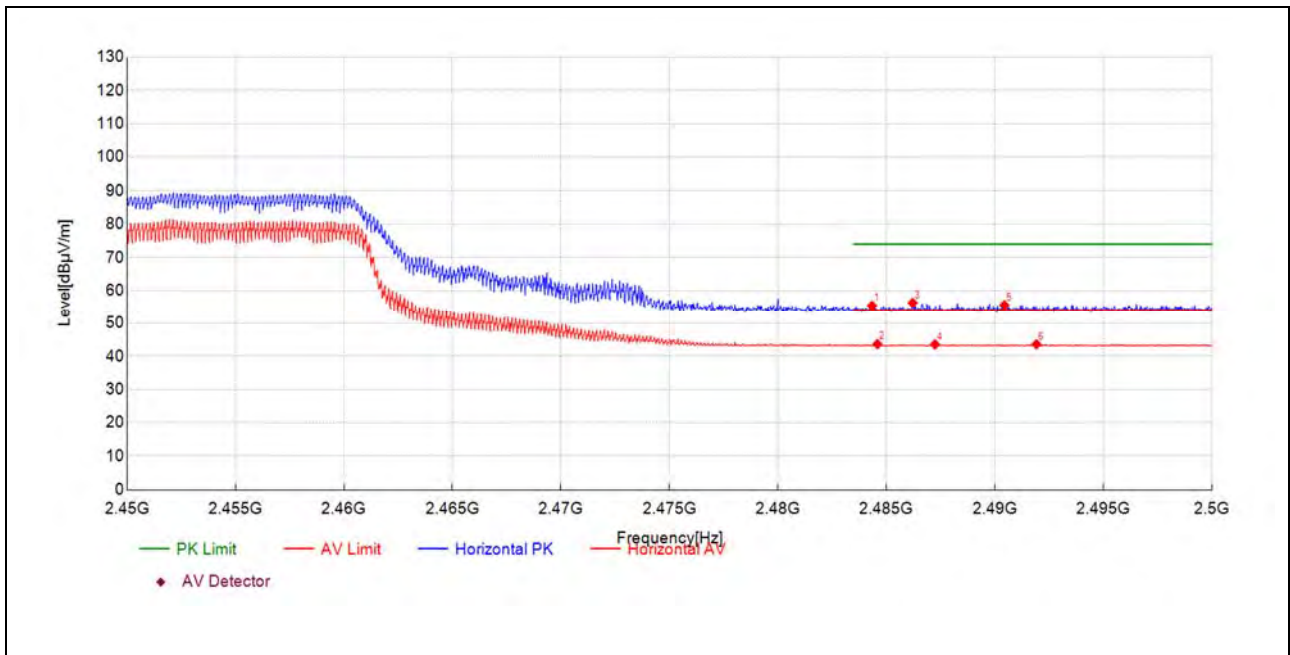
Plot for Channel 3



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2362.49	9.7	42.14	32.440	54.00	11.86	150	238	AV	PASS
2363.45	22.1	54.50	32.450	74.00	19.50	150	147	PK	PASS
2373.30	10.1	42.54	32.490	54.00	11.46	150	162	AV	PASS
2377.87	22.4	54.86	32.500	74.00	19.14	150	111	PK	PASS
2387.12	24.5	57.00	32.530	74.00	17.00	150	170	PK	PASS
2388.44	11.6	44.11	32.540	54.00	9.89	150	162	AV	PASS



Plot for Channel 9



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.34	22.4	55.44	33.030	74.00	18.56	150	122	PK	PASS
2484.59	10.6	43.65	33.030	54.00	10.35	150	130	AV	PASS
2486.22	23.3	56.28	33.030	74.00	17.72	150	100	PK	PASS
2487.24	10.5	43.57	33.030	54.00	10.43	150	236	AV	PASS
2490.45	22.5	55.56	33.020	74.00	18.44	150	243	PK	PASS
2491.92	10.6	43.59	33.020	54.00	10.41	150	350	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.

Note 1: 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.

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.

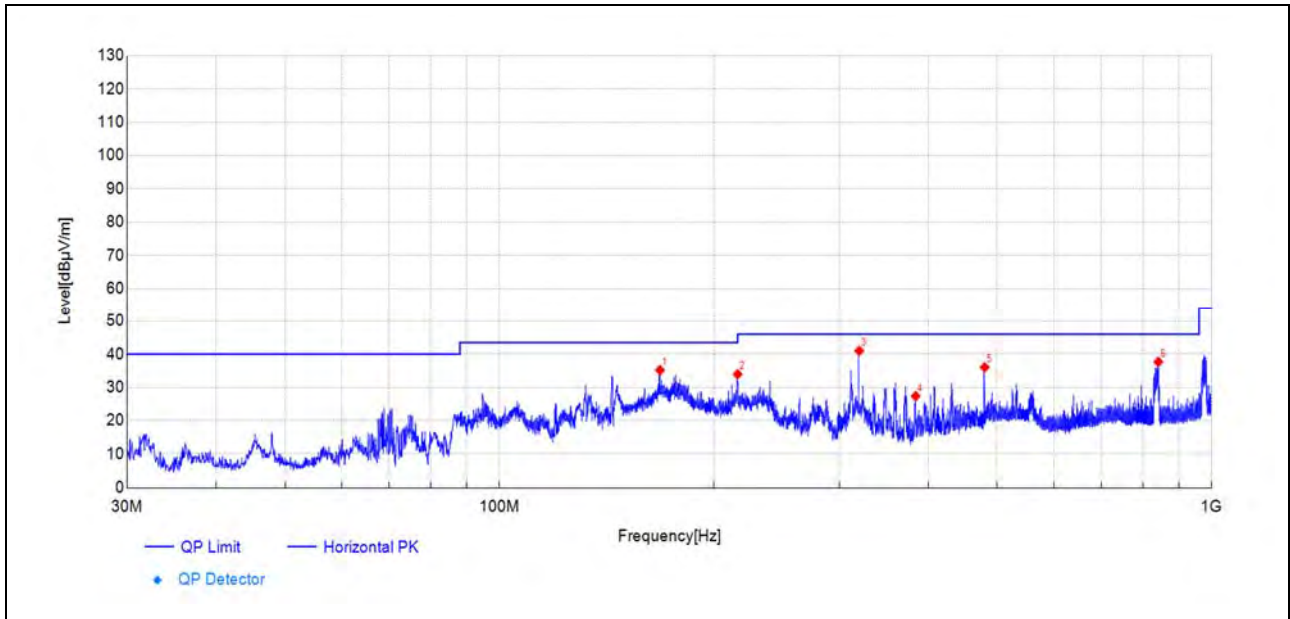
Note 3: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: 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.



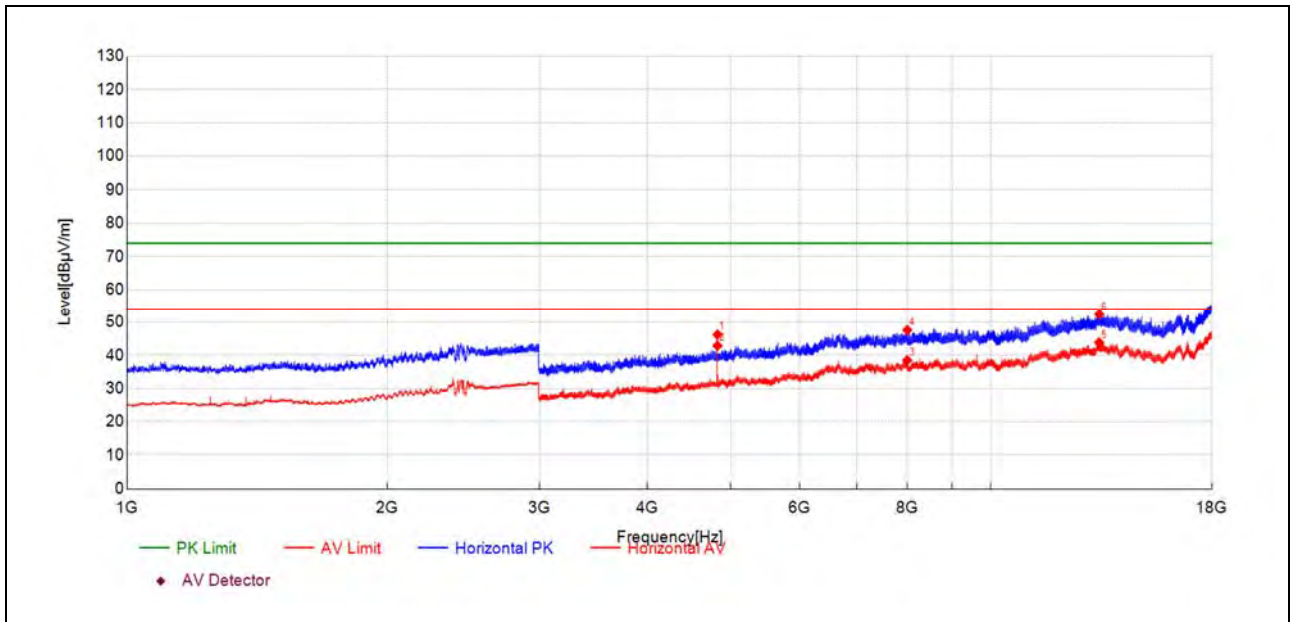
802.11b Mode

Plot for Channel 1



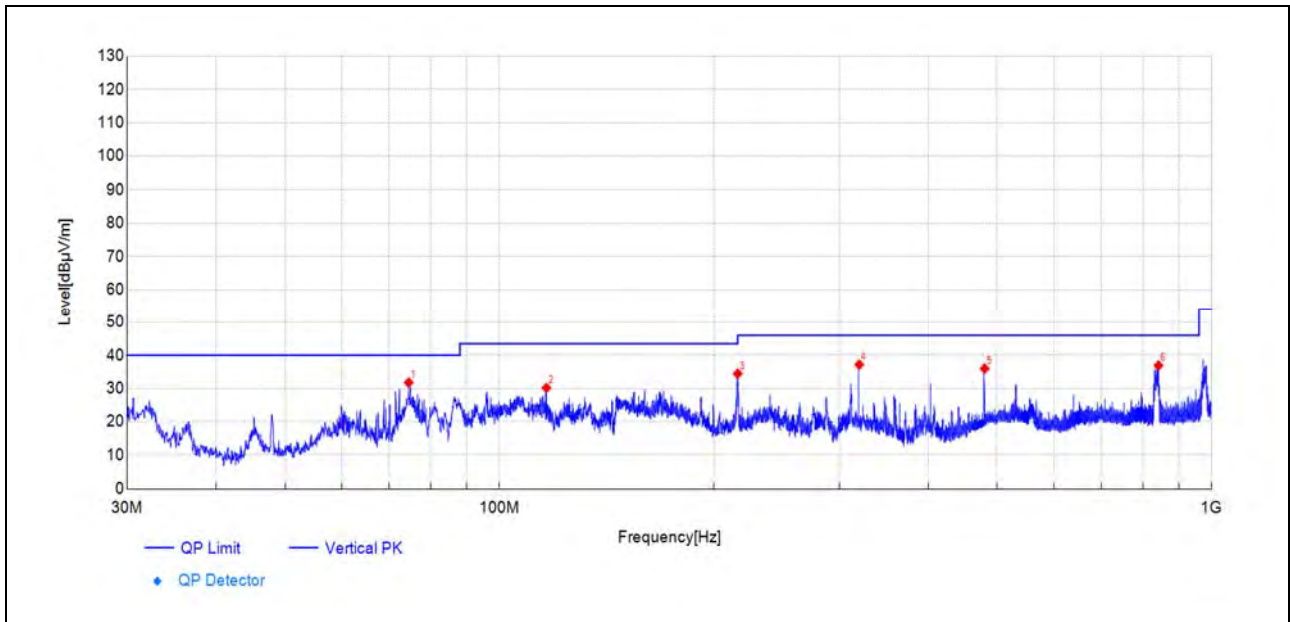
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
168.04	67.5	35.19	-32.330	43.50	8.31	150	221	PK	PASS
216.01	63.5	33.97	-29.500	46.00	12.03	150	61	PK	PASS
320.00	67.4	40.99	-26.370	46.00	5.01	150	212	PK	PASS
384.07	51.9	27.39	-24.490	46.00	18.61	150	61	PK	PASS
480.01	58.4	36.07	-22.330	46.00	9.93	150	170	PK	PASS
841.49	53.4	37.67	-15.750	46.00	8.33	150	111	PK	PASS



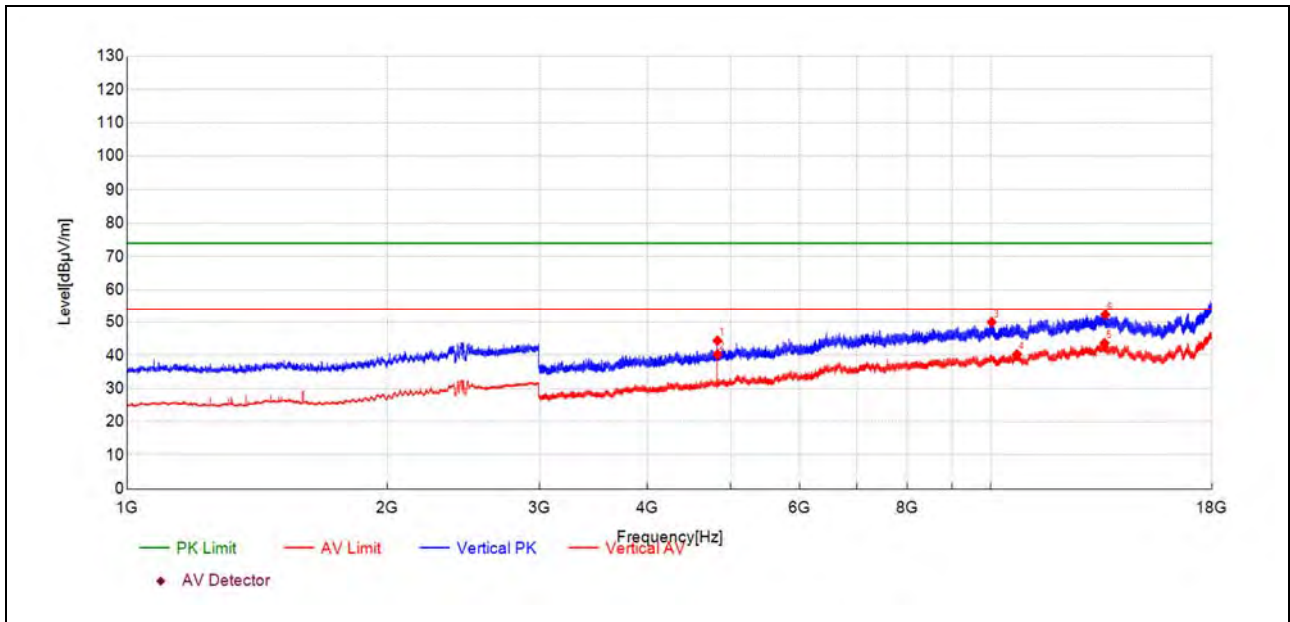
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
4823.56	56.8	46.23	-10.550	74.00	27.77	150	220	PK	PASS
4823.56	53.4	42.89	-10.550	54.00	11.11	150	220	AV	PASS
7996.67	41.8	38.48	-3.320	54.00	15.52	150	81	AV	PASS
7998.17	50.9	47.58	-3.320	74.00	26.42	150	254	PK	PASS
13335.84	38.6	43.85	5.210	54.00	10.15	150	354	AV	PASS
13340.84	47.2	52.36	5.180	74.00	21.64	150	11	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

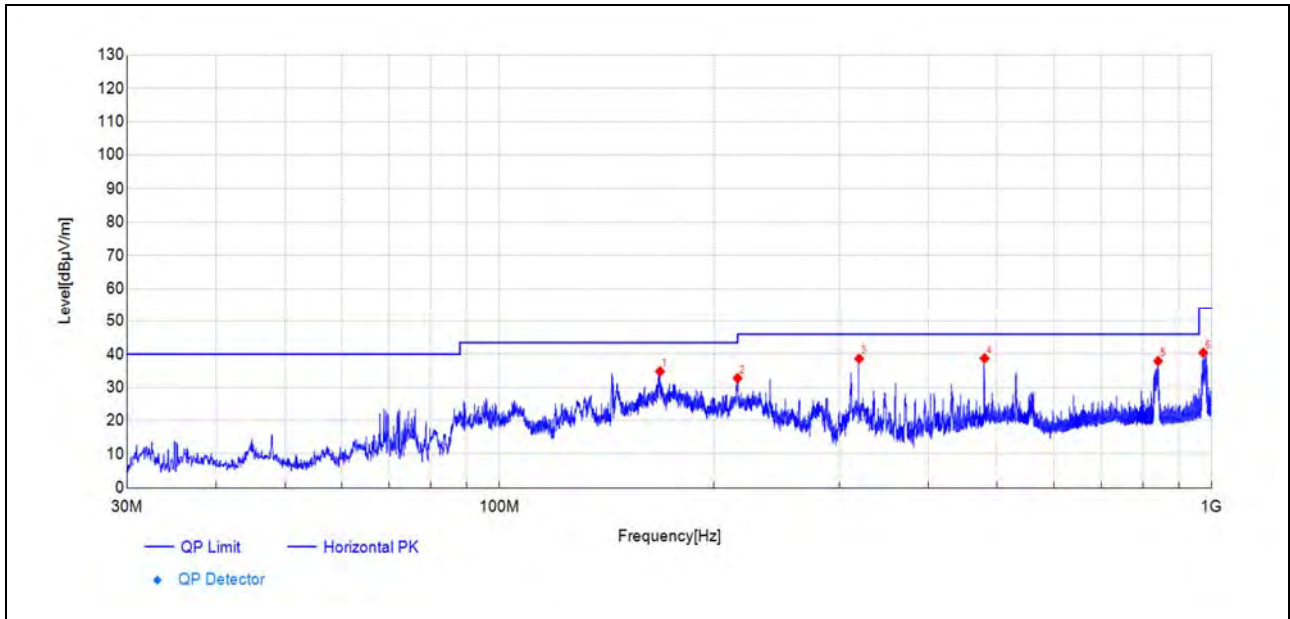
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
74.57	66.9	31.80	-35.110	40.00	8.20	150	288	PK	PASS
116.38	61.8	30.19	-31.650	43.50	13.31	150	5	PK	PASS
216.01	64.0	34.45	-29.500	46.00	11.55	150	77	PK	PASS
320.00	63.6	37.18	-26.370	46.00	8.82	150	168	PK	PASS
480.01	58.3	36.00	-22.330	46.00	10.00	150	238	PK	PASS
841.69	52.7	36.93	-15.750	46.00	9.07	150	178	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

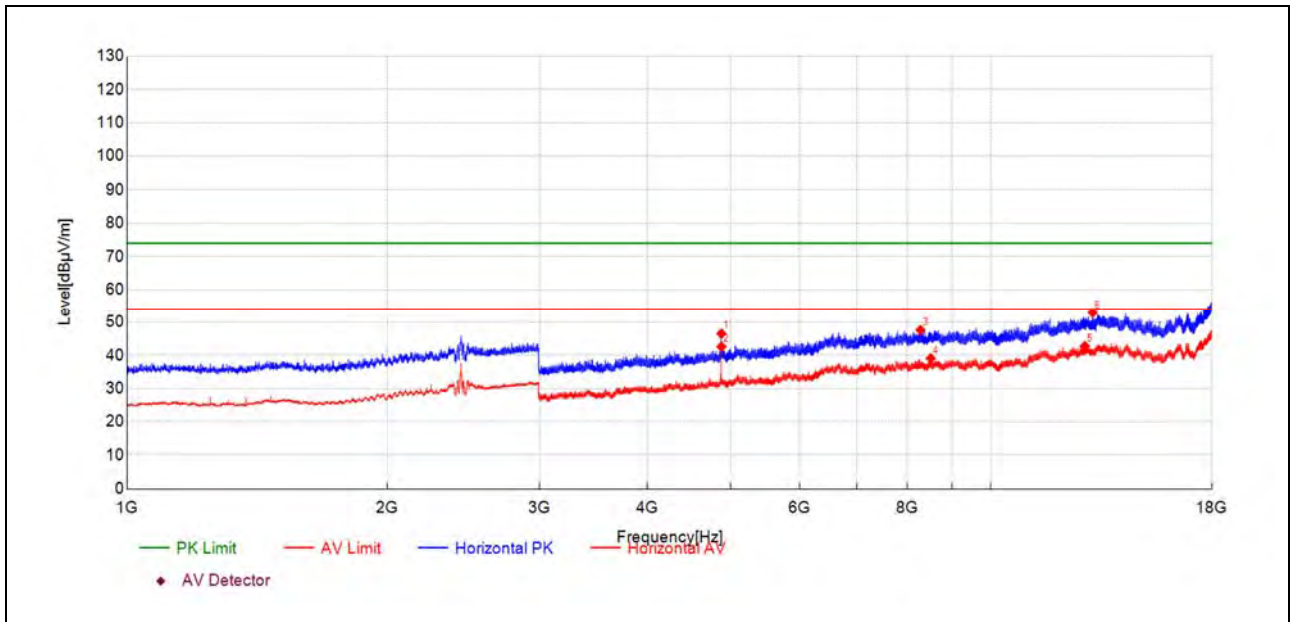
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
4823.56	55.0	44.40	-10.550	74.00	29.60	150	168	PK	PASS
4824.06	50.9	40.30	-10.550	54.00	13.70	150	168	AV	PASS
10015.23	50.4	49.97	-0.440	74.00	24.03	150	290	PK	PASS
10715.26	39.8	40.31	0.510	54.00	13.69	150	150	AV	PASS
13525.85	38.9	43.67	4.740	54.00	10.33	150	255	AV	PASS
13558.35	47.5	52.24	4.780	74.00	21.76	150	184	PK	PASS

Plot for Channel 6



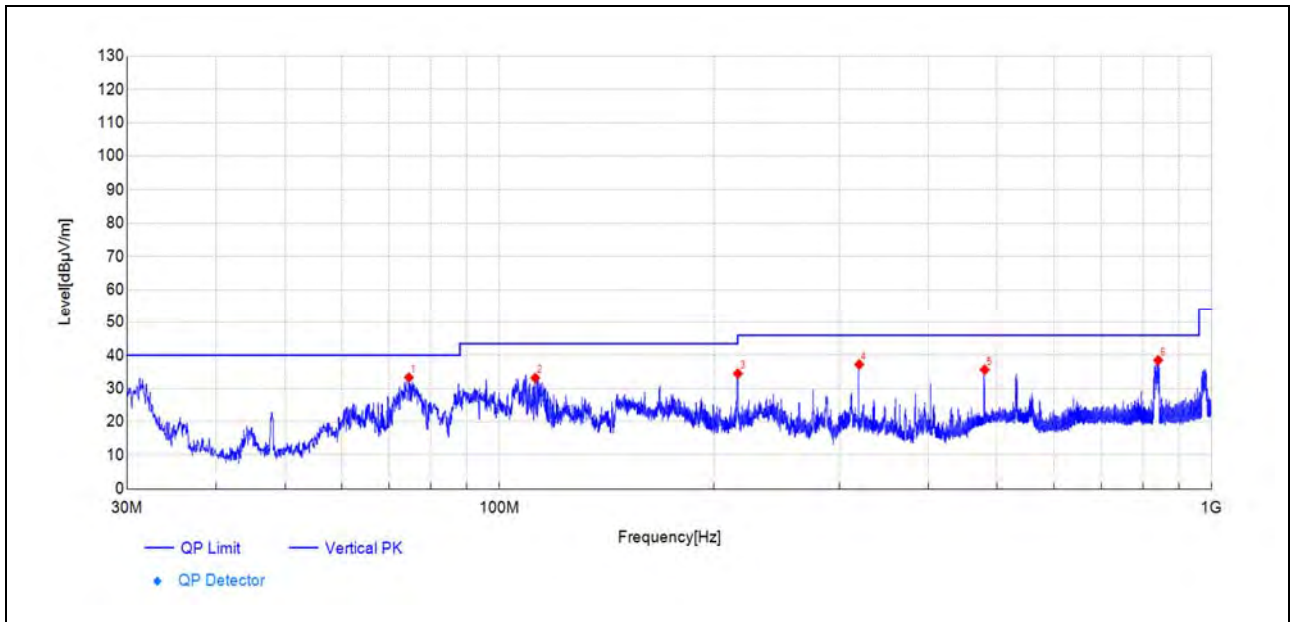
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
168.04	67.1	34.81	-32.330	43.50	8.69	150	207	PK	PASS
216.01	62.3	32.77	-29.500	46.00	13.23	150	46	PK	PASS
320.00	65.0	38.65	-26.370	46.00	7.35	150	189	PK	PASS
480.01	61.1	38.74	-22.330	46.00	7.26	150	168	PK	PASS
840.86	53.7	37.94	-15.770	46.00	8.06	150	97	PK	PASS
973.18	54.2	40.46	-13.710	54.00	13.54	150	118	PK	PASS



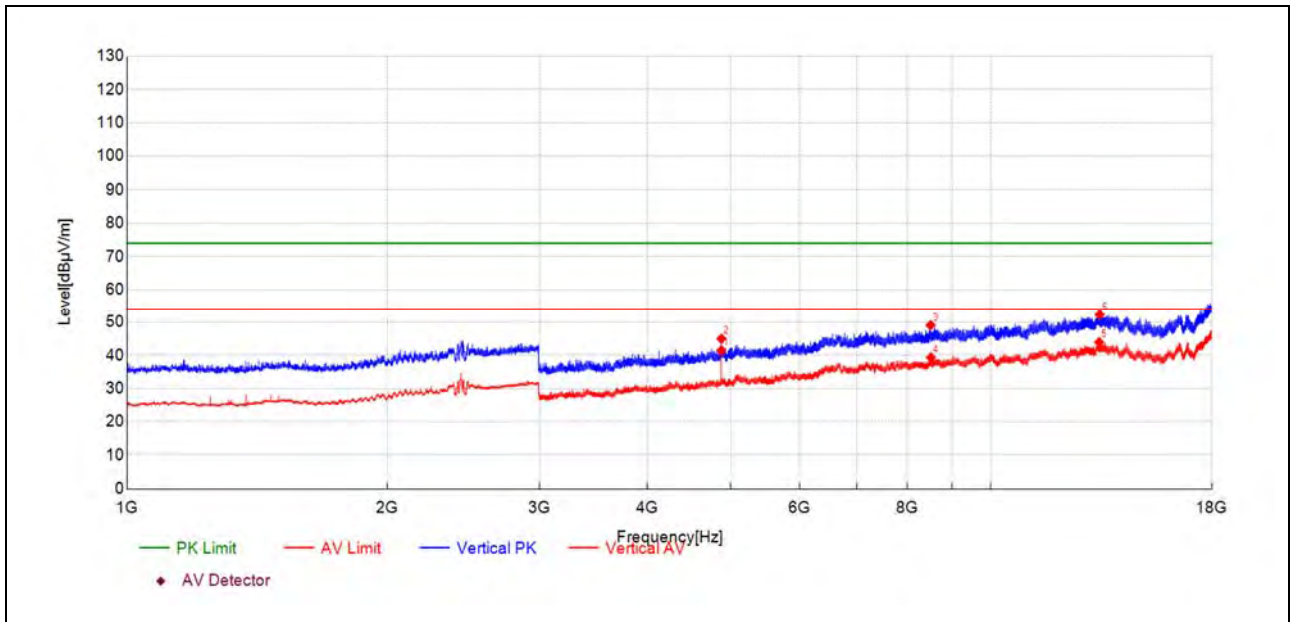
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
4873.56	56.6	46.53	-10.070	74.00	27.47	150	238	PK	PASS
4874.06	52.7	42.61	-10.070	54.00	11.39	150	238	AV	PASS
8283.68	50.8	47.61	-3.140	74.00	26.39	150	220	PK	PASS
8514.18	41.6	39.08	-2.530	54.00	14.92	150	45	AV	PASS
12838.33	38.8	42.74	3.980	54.00	11.26	150	289	AV	PASS
13105.34	49.2	52.87	3.660	74.00	21.13	150	114	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
74.62	68.4	33.33	-35.110	40.00	6.67	150	71	PK	PASS
112.26	64.3	33.18	-31.120	43.50	10.32	150	360	PK	PASS
216.15	64.0	34.48	-29.490	46.00	11.52	150	102	PK	PASS
320.00	63.6	37.24	-26.370	46.00	8.76	150	183	PK	PASS
480.01	58.0	35.63	-22.330	46.00	10.37	150	360	PK	PASS
841.15	54.3	38.49	-15.770	46.00	7.51	150	183	PK	PASS

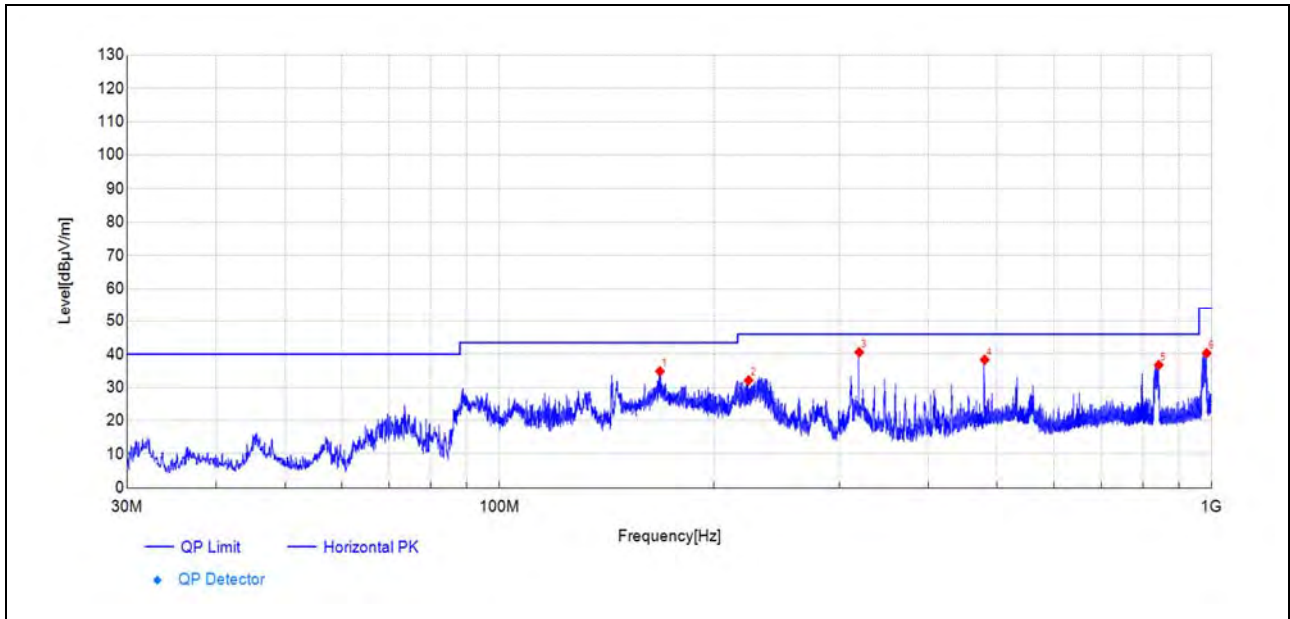


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
4873.56	51.5	41.44	-10.070	54.00	12.56	150	202	AV	PASS
4874.06	55.1	44.98	-10.070	74.00	29.02	150	202	PK	PASS
8512.18	51.6	49.04	-2.510	74.00	24.96	150	360	PK	PASS
8518.68	41.9	39.32	-2.560	54.00	14.68	150	132	AV	PASS
13334.84	38.7	43.91	5.220	54.00	10.09	150	360	AV	PASS
13356.85	47.2	52.26	5.060	74.00	21.74	150	237	PK	PASS

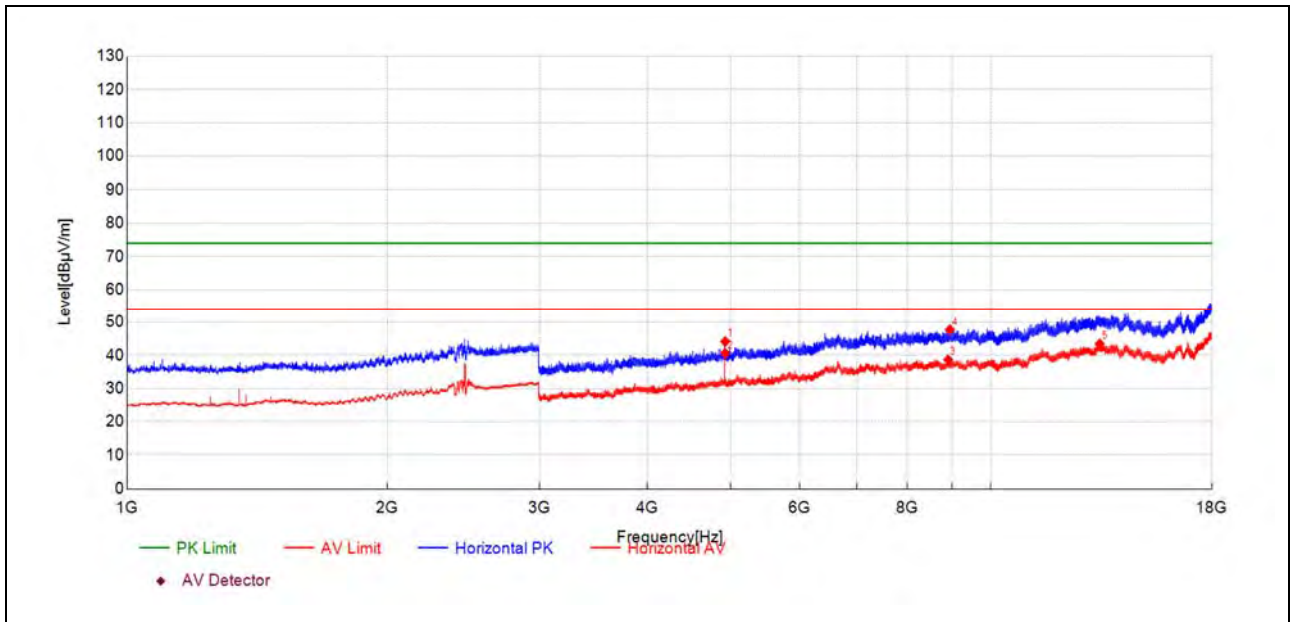


Plot for Channel 11



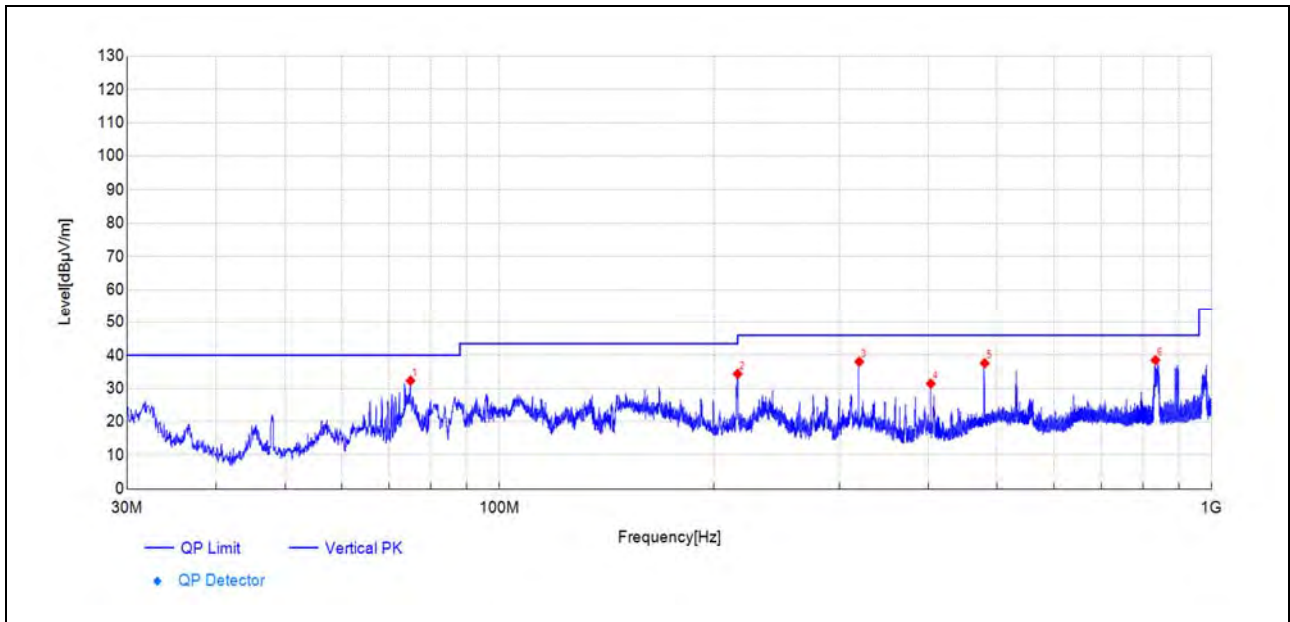
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
167.99	67.2	34.88	-32.330	43.50	8.62	150	201	PK	PASS
223.77	61.2	32.14	-29.020	46.00	13.86	150	201	PK	PASS
320.00	67.0	40.59	-26.370	46.00	5.41	150	221	PK	PASS
480.01	60.7	38.34	-22.330	46.00	7.66	150	171	PK	PASS
842.56	52.5	36.76	-15.710	46.00	9.24	150	100	PK	PASS
983.99	53.8	40.32	-13.440	54.00	13.68	150	121	PK	PASS



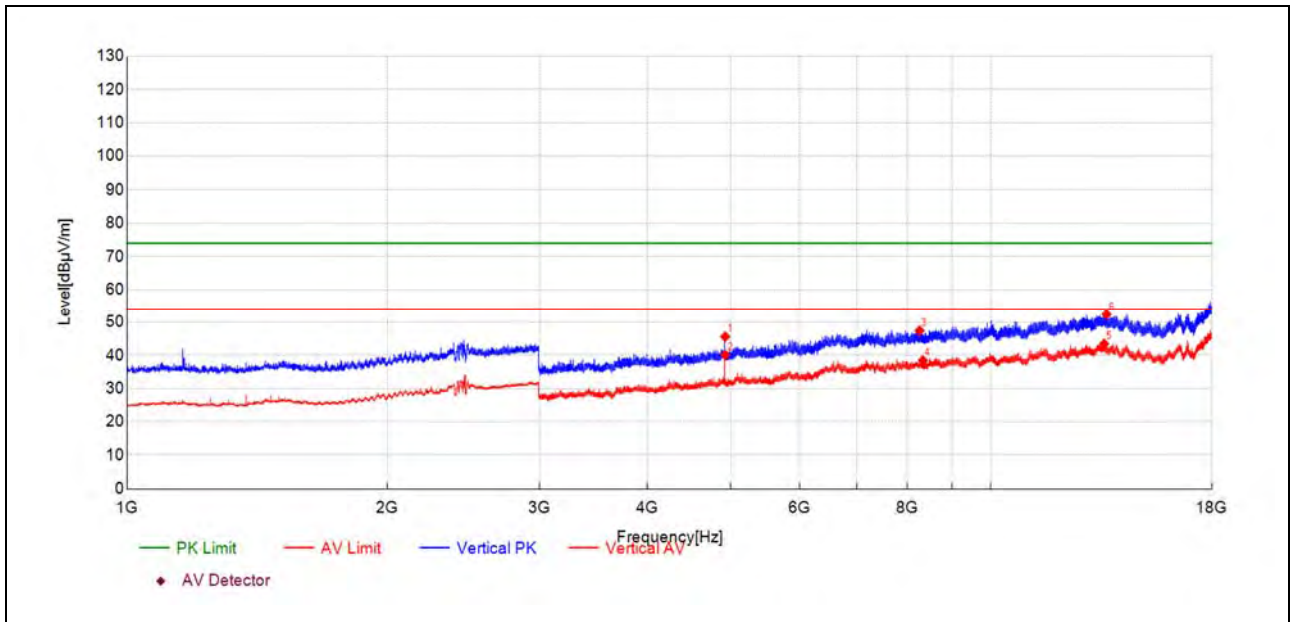
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
4923.56	54.1	44.14	-9.970	74.00	29.86	150	149	PK	PASS
4924.06	50.6	40.62	-9.970	54.00	13.38	150	149	AV	PASS
8917.70	40.9	38.66	-2.260	54.00	15.34	150	168	AV	PASS
8960.70	50.1	47.72	-2.360	74.00	26.28	150	63	PK	PASS
13358.35	38.4	43.44	5.050	54.00	10.56	150	360	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
75.01	67.5	32.34	-35.150	40.00	7.66	150	4	PK	PASS
216.01	63.9	34.39	-29.500	46.00	11.61	150	78	PK	PASS
320.00	64.4	38.06	-26.370	46.00	7.94	150	178	PK	PASS
403.23	55.5	31.45	-24.040	46.00	14.55	150	249	PK	PASS
480.01	59.9	37.61	-22.330	46.00	8.39	150	249	PK	PASS
833.69	54.5	38.53	-15.920	46.00	7.47	150	178	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
4923.56	55.6	45.59	-9.970	74.00	28.41	150	184	PK	PASS
4924.06	50.0	40.06	-9.970	54.00	13.94	150	184	AV	PASS
8264.18	50.7	47.41	-3.240	74.00	26.59	150	353	PK	PASS
8335.68	41.7	38.47	-3.270	54.00	15.53	150	290	AV	PASS
13515.35	38.7	43.42	4.730	54.00	10.58	150	272	AV	PASS
13600.85	47.5	52.34	4.820	74.00	21.66	150	184	PK	PASS

————— END OF REPORT —————