



TEST REPORT

APPLICANT : Anker Innovations Limited
PRODUCT NAME : eufy Smart Lock C220
MODEL NAME : T8506C
BRAND NAME : eufy
FCC ID : 2AOKB-T8506C
STANDARD(S) : 47 CFR Part 15 Subpart C
RECEIPT DATE : 2025-05-08
TEST DATE : 2025-05-13 to 2025-05-27
ISSUE DATE : 2025-06-11

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Change History		
Version	Date	Reason for change
1.0	2025-06-11	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	N/A	Duty Cycle of Test Signal	May 13, 2025	Su Xiaoxian	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	May 13, 2025	Su Xiaoxian	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	May 13, 2025	Su Xiaoxian	PASS	No deviation
5	15.247(a)	Bandwidth	May 13, 2025	Su Xiaoxian	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	May 13, 2025	Su Xiaoxian	PASS	No deviation
7	15.247(e)	Power Spectral Density	May 13, 2025	Su Xiaoxian	PASS	No deviation
8	15.207	Conducted Emission	May 20, 2025	Fan Shengquan Wang Yapeng	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	May 15 to 16, 2025	Yuan Zihong	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	May 15 to 16, 2025	Yuan Zihong	PASS	No deviation

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

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

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the



judgment result based on the 95% confidence intervals.

1.1. Testing Applied Standards

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

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	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	2026.01.08
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2024.05.30	2025.05.29
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	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
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.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	N/A	N/A
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	N/A	N/A
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	N/A	N/A
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	±2.22dB	Confidence levels of 95%
Power Spectral Density	±2.22dB	Confidence levels of 95%
Bandwidth	±5%	Confidence levels of 95%
Conducted Spurious Emission	±2.77dB	Confidence levels of 95%
Restricted Frequency Bands	±5%	Confidence levels of 95%
Radiated Emission	±2.95dB	Confidence levels of 95%
Conducted Emission	±2.44dB	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:	Anker Innovations Limited
Applicant Address:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Manufacturer:	Anker Innovations Limited
Manufacturer Address:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong

2.2. Information of EUT

Product Name:	eufy Smart Lock C220
Sample No.:	1#, 3#
Hardware Version:	V3.3
Software Version:	V1.3.0.2
Modulation Technology:	DSSS, OFDM
Modulation Type:	Refer to section 2.4.1
Wireless Technology:	802.11b, 802.11g, 802.11n (HT20)
Operating Frequency Range:	2412MHz–2462MHz
Antenna Type:	FPC Antenna
Antenna Gain:	3.50dBi

Note 1: 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		

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

Modulation technology	Modulation Type	Data Rate (Mbps) <small>Note1</small>
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n (HT20))	BPSK	6.5
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65

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.

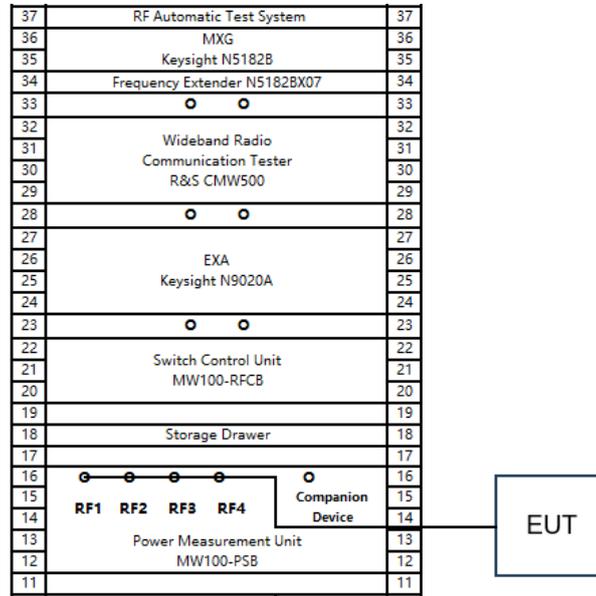
Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

2.5. Test Conditions

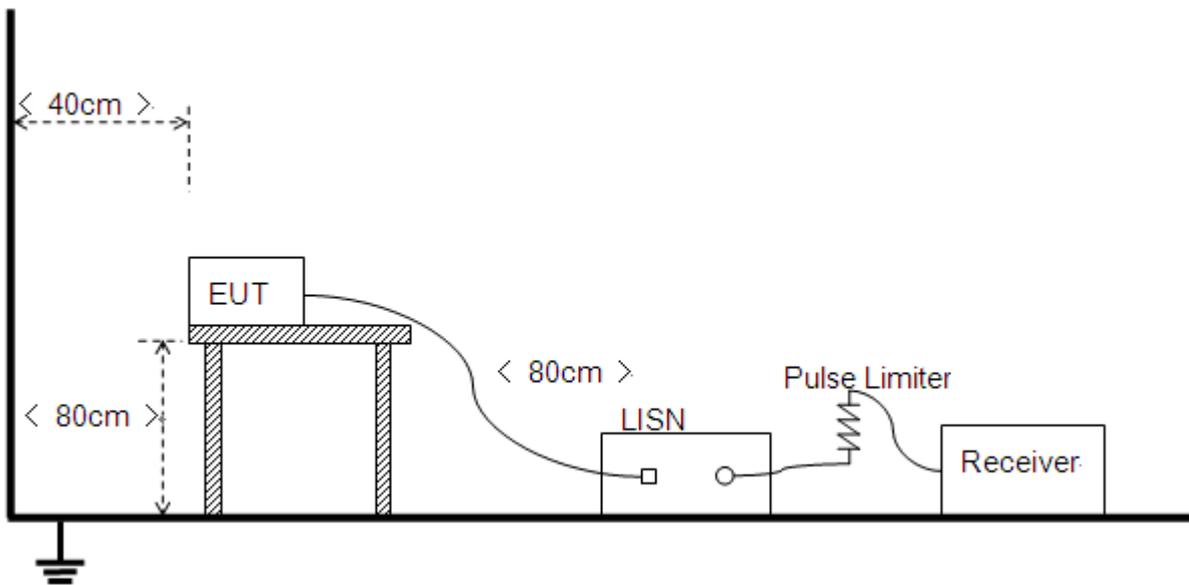
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

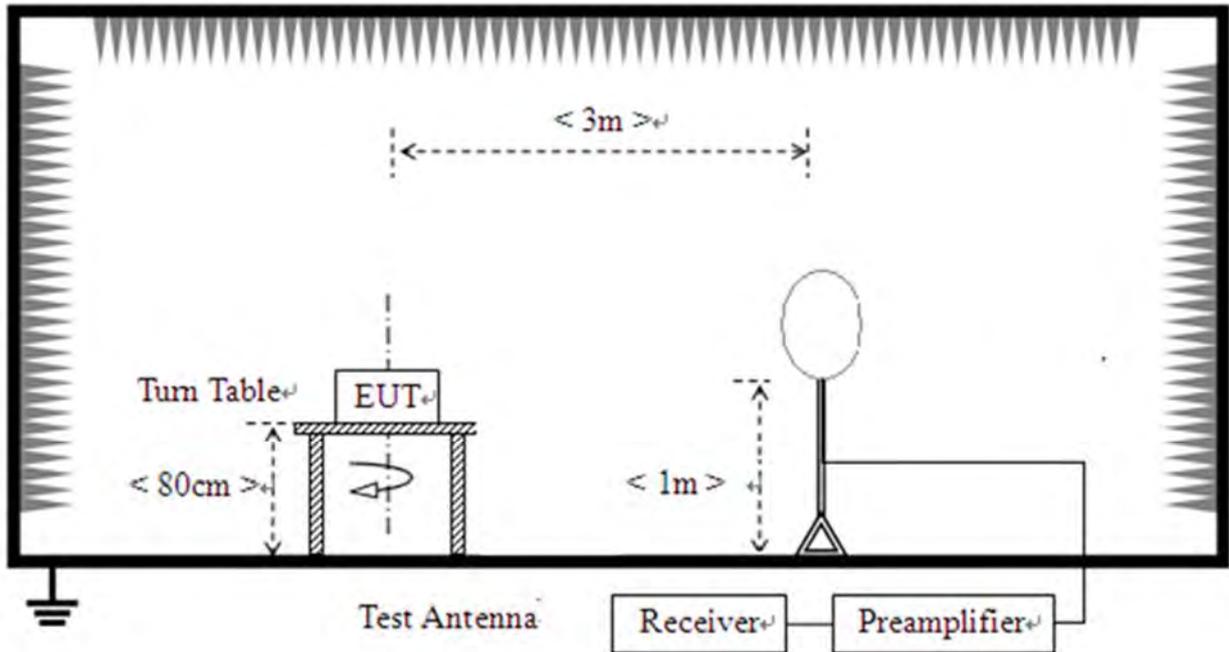


2.6.2. Conducted Emission Measurement

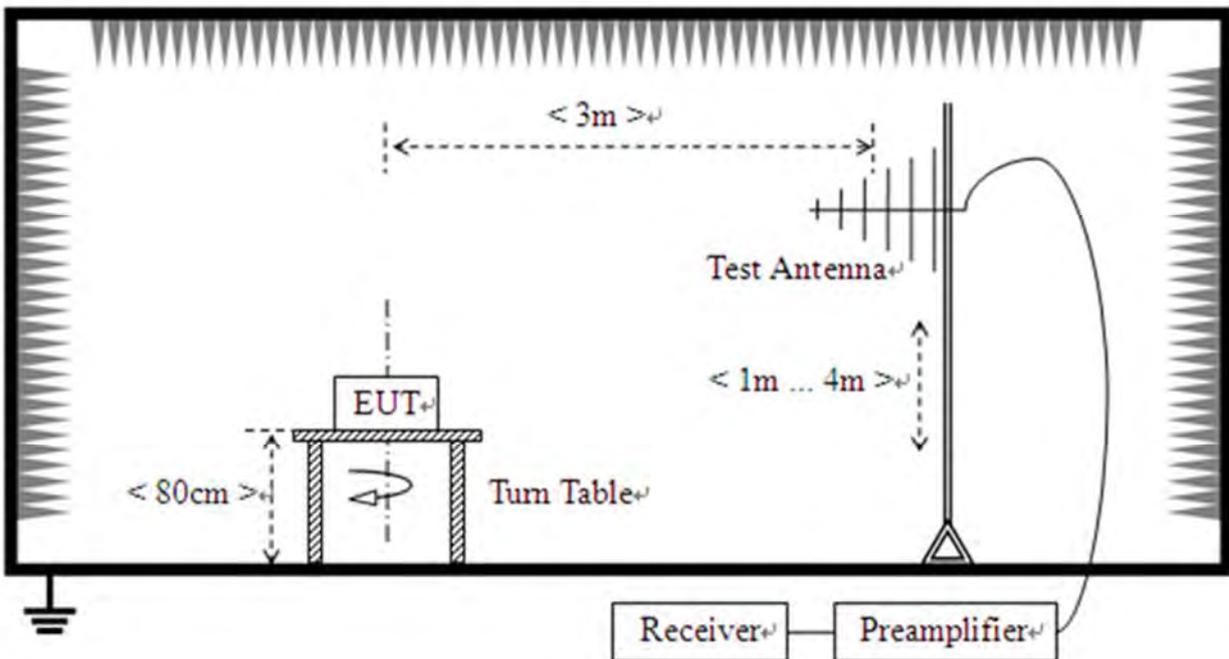


2.6.3. Radiation Measurement

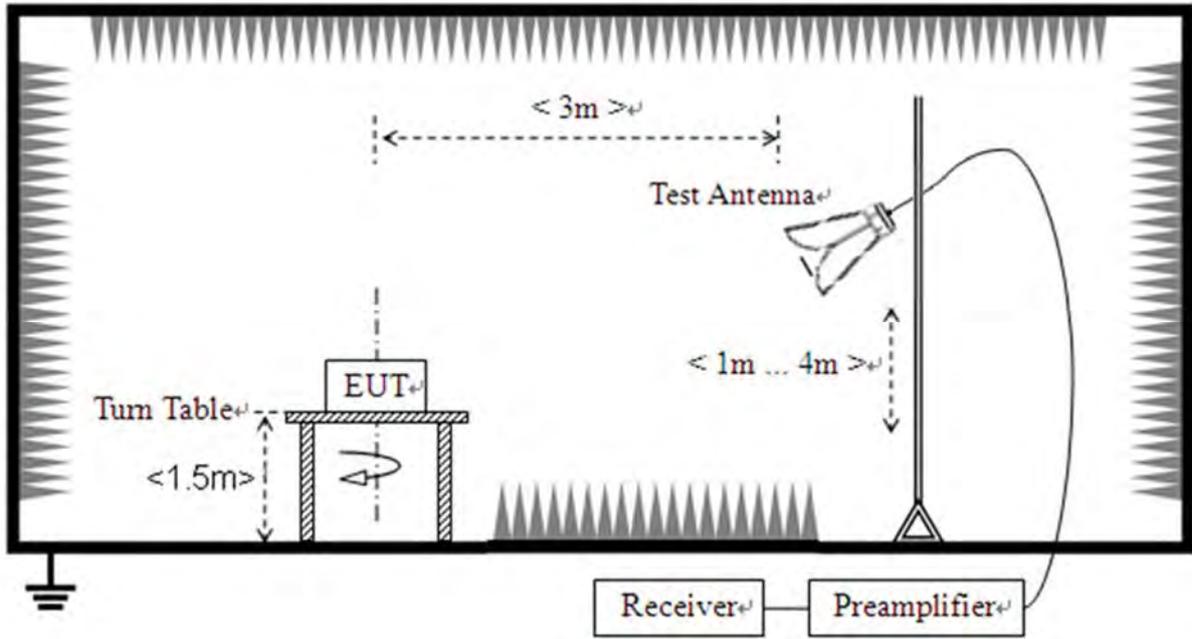
1) For radiated emissions from 9kHz to 30MHz



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
<input checked="" type="checkbox"/> Internal <input type="checkbox"/> External	<input checked="" type="checkbox"/> FPC Antenna <input type="checkbox"/> Spring Antenna <input type="checkbox"/> Ceramic Antenna <input type="checkbox"/> Integrated Antenna <input type="checkbox"/> Dipole Antenna <input type="checkbox"/> PCB Antenna <input type="checkbox"/> PIFA Antenna <input type="checkbox"/> On-board Antenna	<input checked="" type="checkbox"/> I-PEX Connector <input type="checkbox"/> SMA Connector <input type="checkbox"/> RP-SMA Connector <input type="checkbox"/> Metal Shrapnel <input type="checkbox"/> 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 50μH/50Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBμV)	
	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

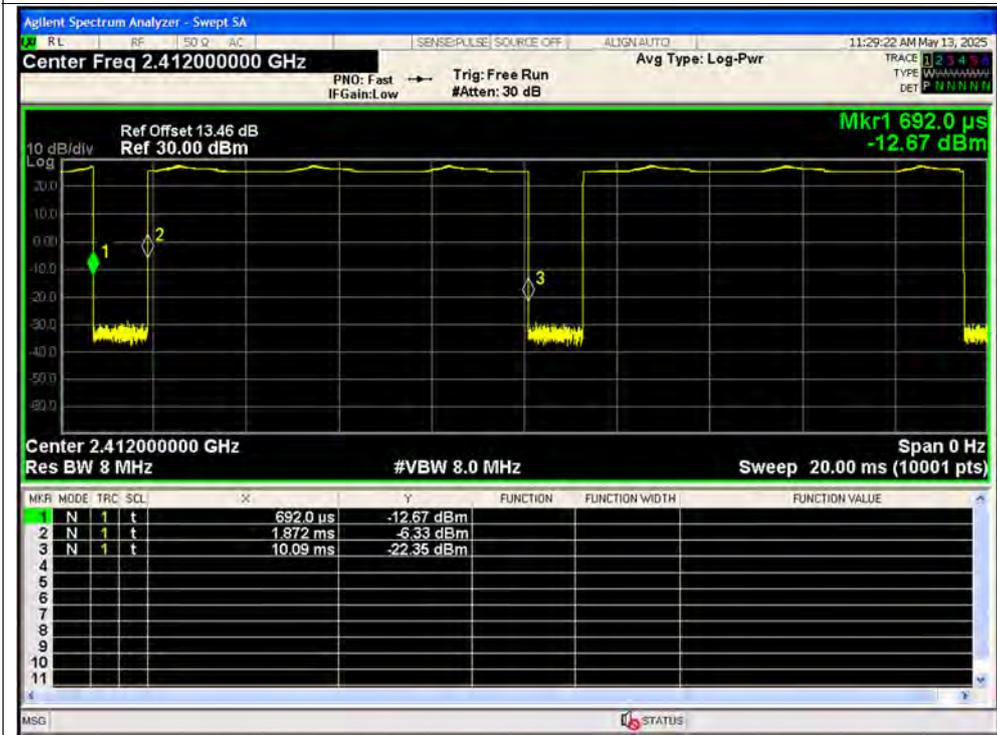
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	87.44	0.58	0.12
NVNT	b	2437	Ant1	87.46	0.58	0.12
NVNT	b	2462	Ant1	87.46	0.58	0.12
NVNT	g	2412	Ant1	99.97	0	0
NVNT	g	2437	Ant1	99.98	0	0
NVNT	g	2462	Ant1	99.93	0	0.08
NVNT	n20	2412	Ant1	99.98	0	0
NVNT	n20	2437	Ant1	99.93	0	0.09
NVNT	n20	2462	Ant1	99.93	0	0.09

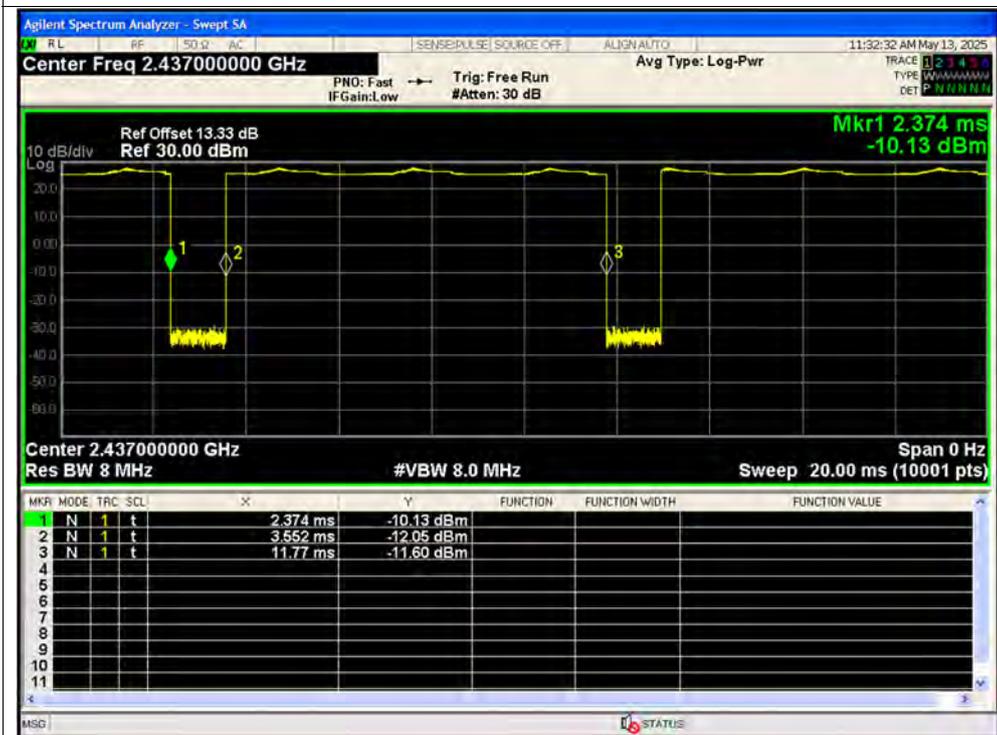


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

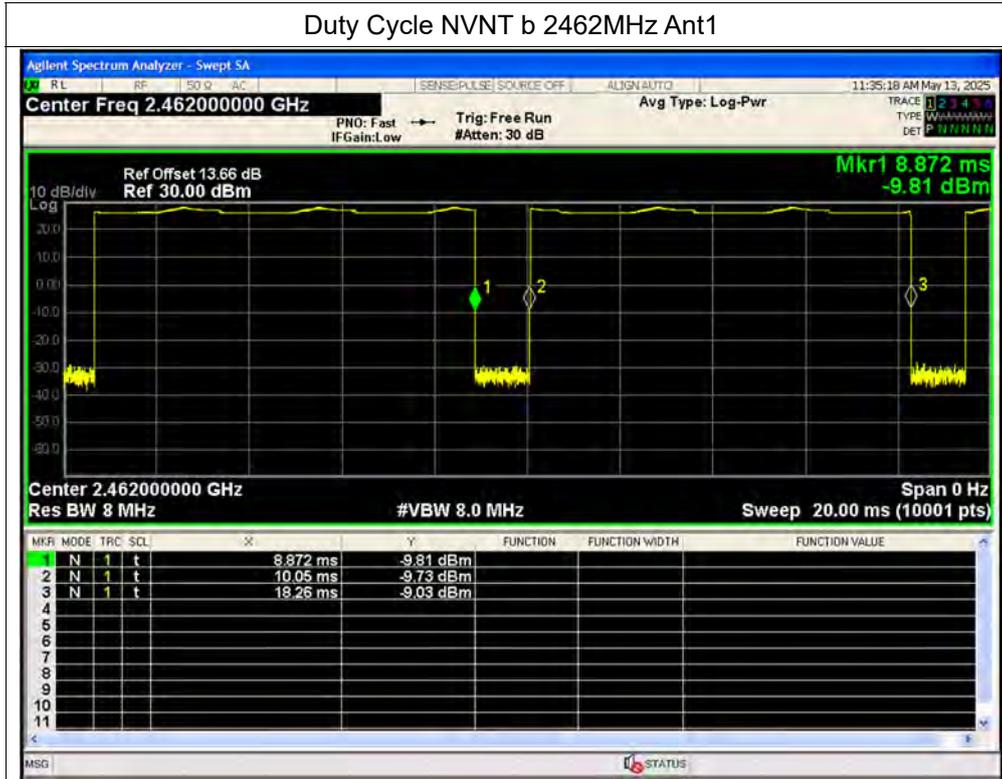


Duty Cycle NVNT b 2437MHz Ant1

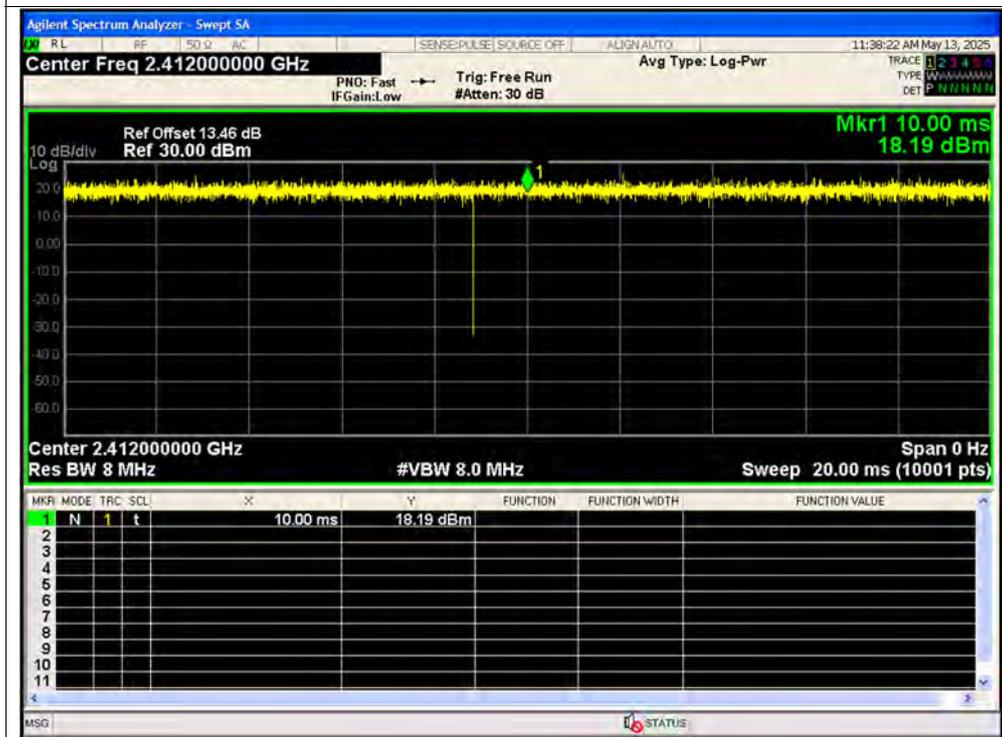




Duty Cycle NVNT b 2462MHz Ant1

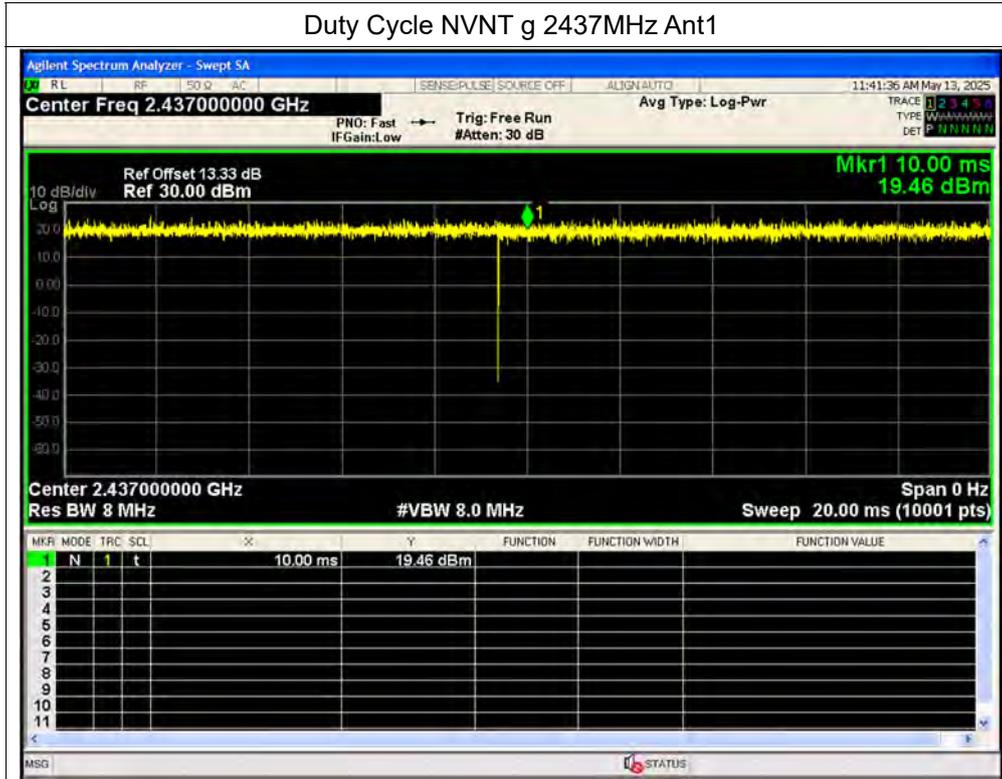


Duty Cycle NVNT g 2412MHz Ant1

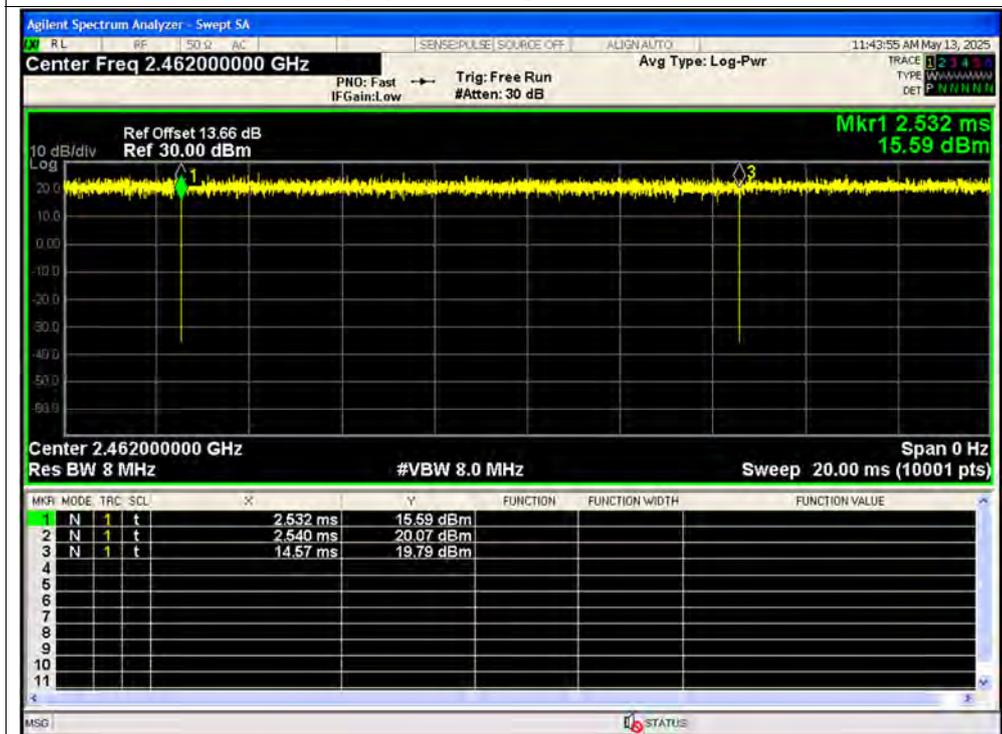




Duty Cycle NVNT g 2437MHz Ant1

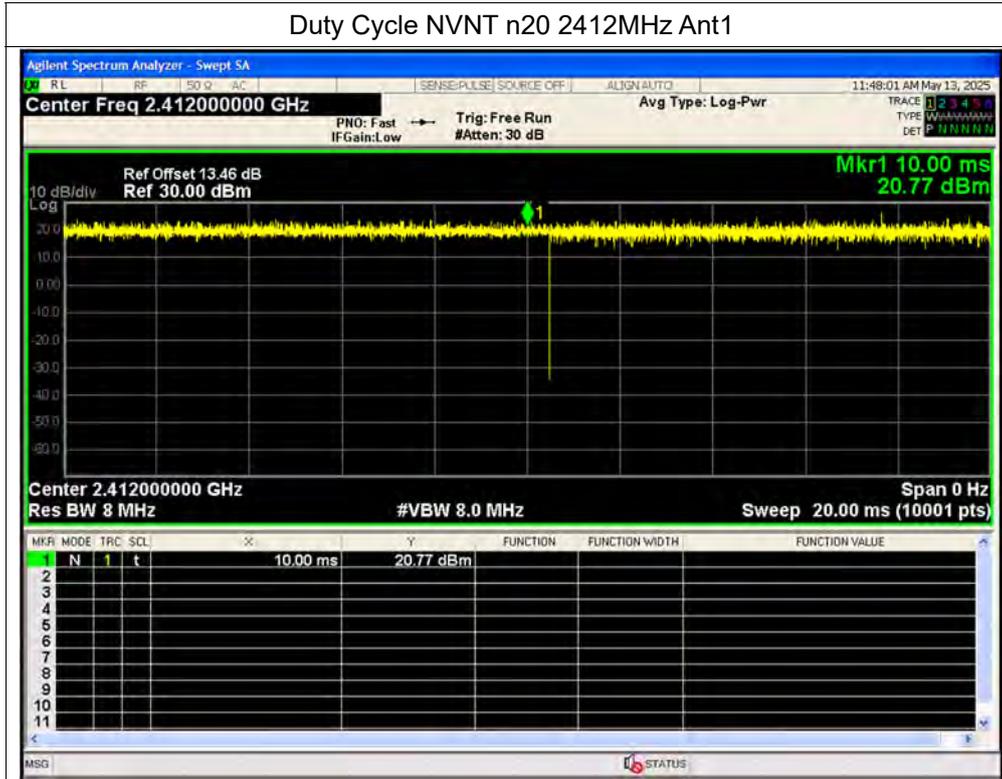


Duty Cycle NVNT g 2462MHz Ant1

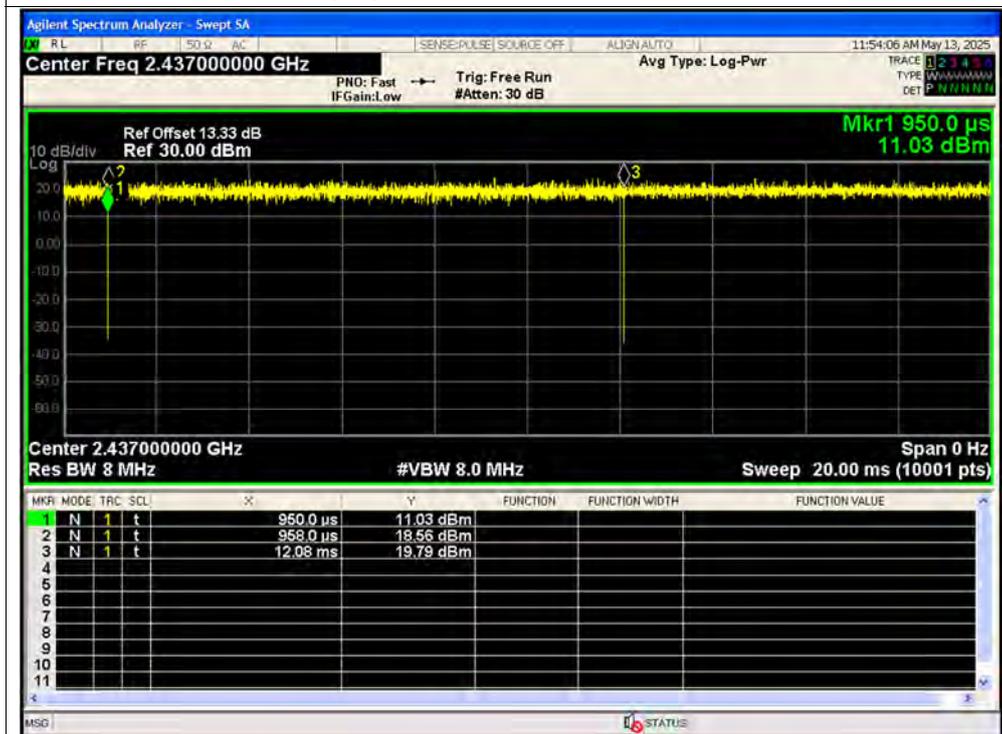


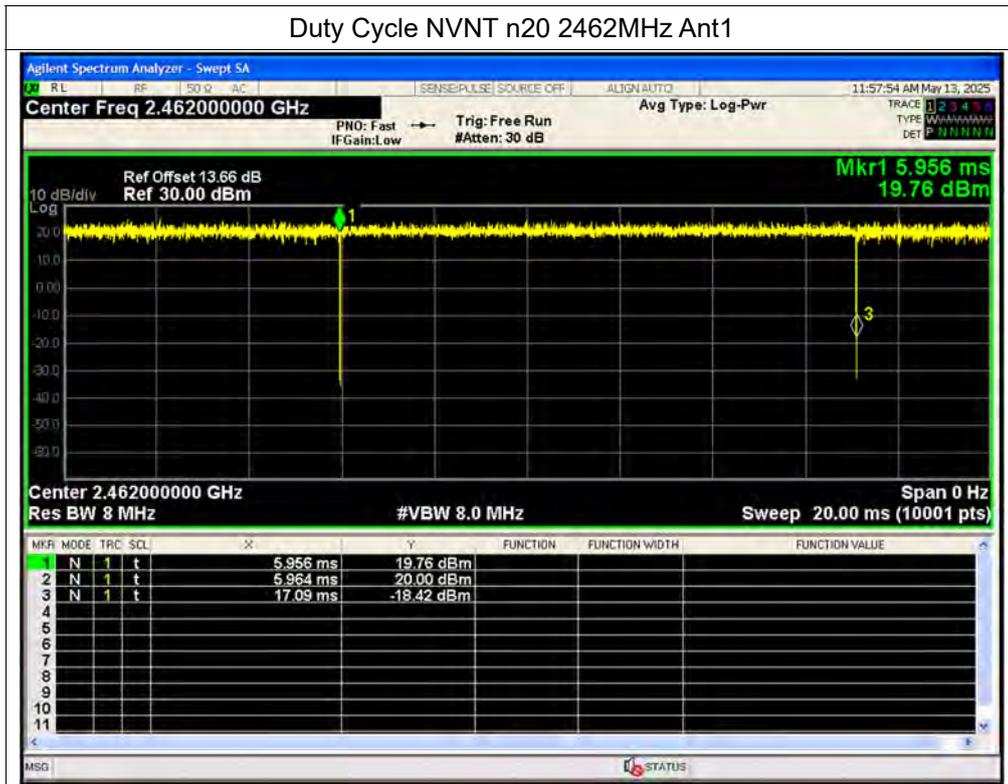


Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1







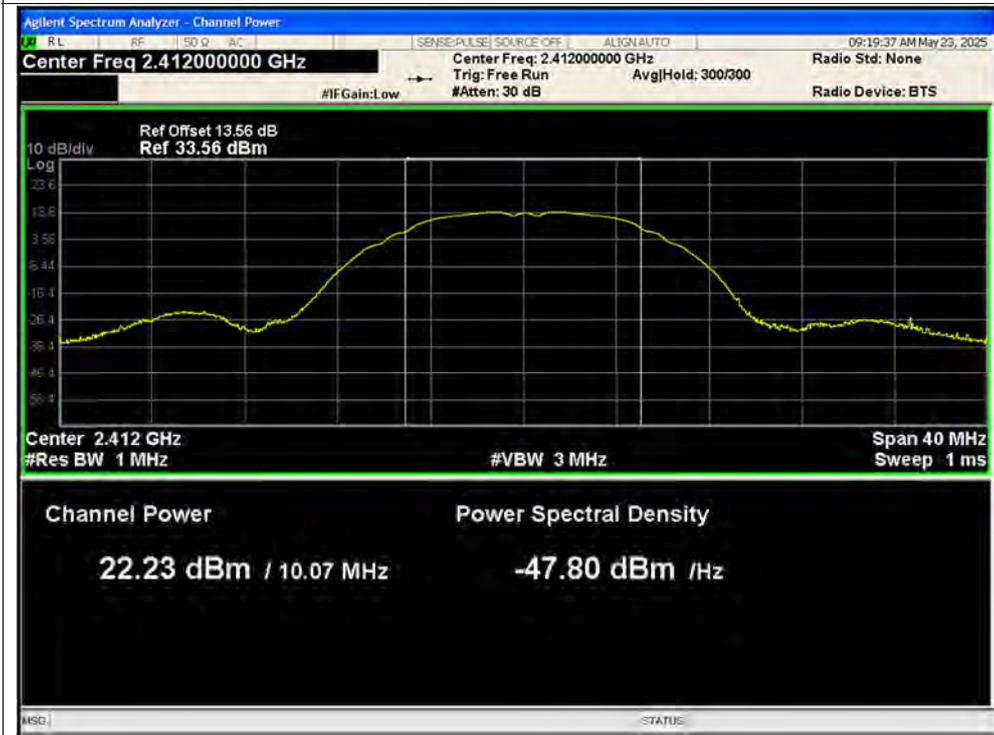
A.2. Maximum Peak Conducted Output Power

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	22.23	0	22.23	0.16711	30	Pass
NVNT	b	2437	Ant1	22.27	0	22.27	0.16866	30	Pass
NVNT	b	2462	Ant1	23.41	0	23.41	0.21928	30	Pass
NVNT	g	2412	Ant1	23.72	0	23.72	0.2355	30	Pass
NVNT	g	2437	Ant1	23.76	0	23.76	0.23768	30	Pass
NVNT	g	2462	Ant1	25.09	0	25.09	0.32285	30	Pass
NVNT	n20	2412	Ant1	23.69	0	23.69	0.23388	30	Pass
NVNT	n20	2437	Ant1	23.39	0	23.39	0.21827	30	Pass
NVNT	n20	2462	Ant1	24.85	0	24.85	0.30549	30	Pass

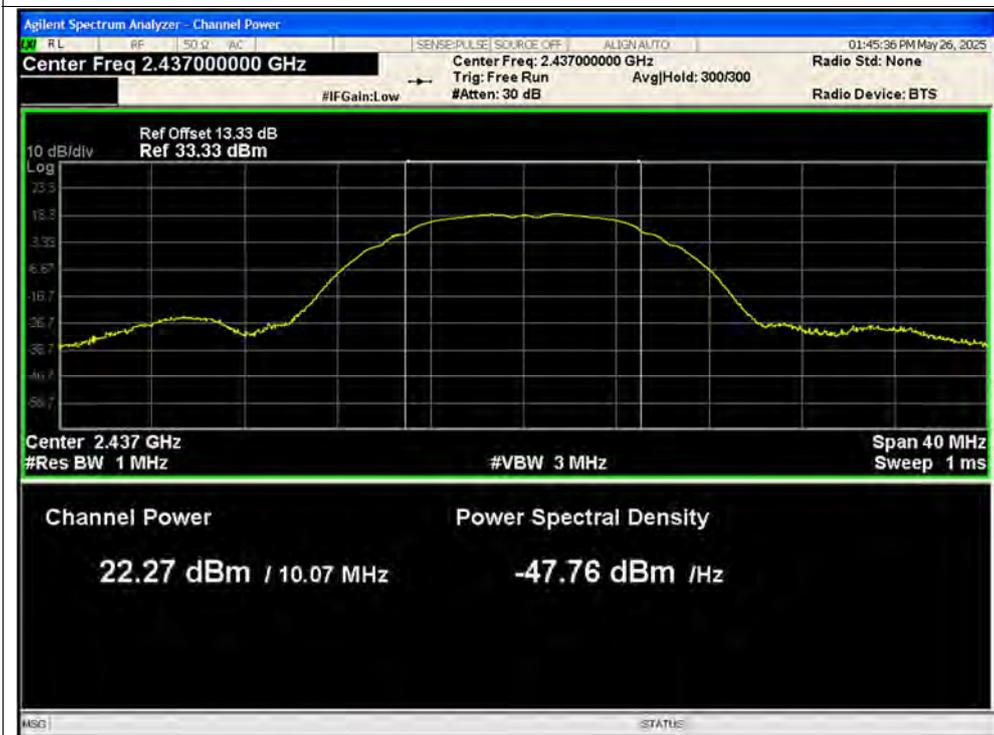


Test Graphs

Peak Power NVNT b 2412MHz Ant1

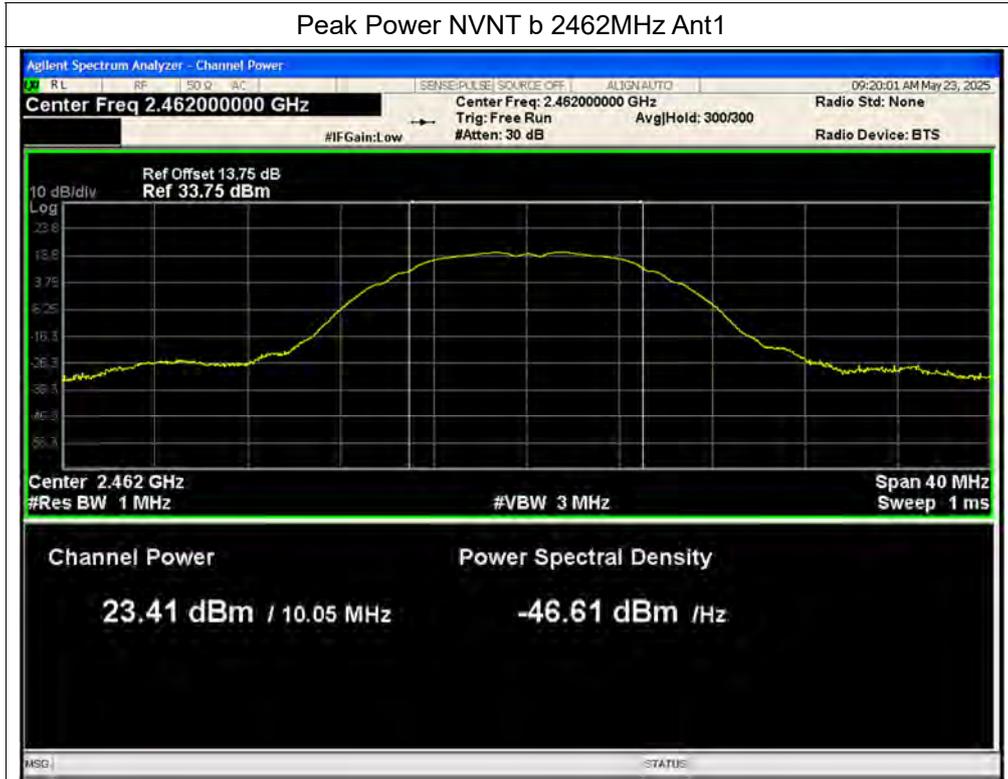


Peak Power NVNT b 2437MHz Ant1

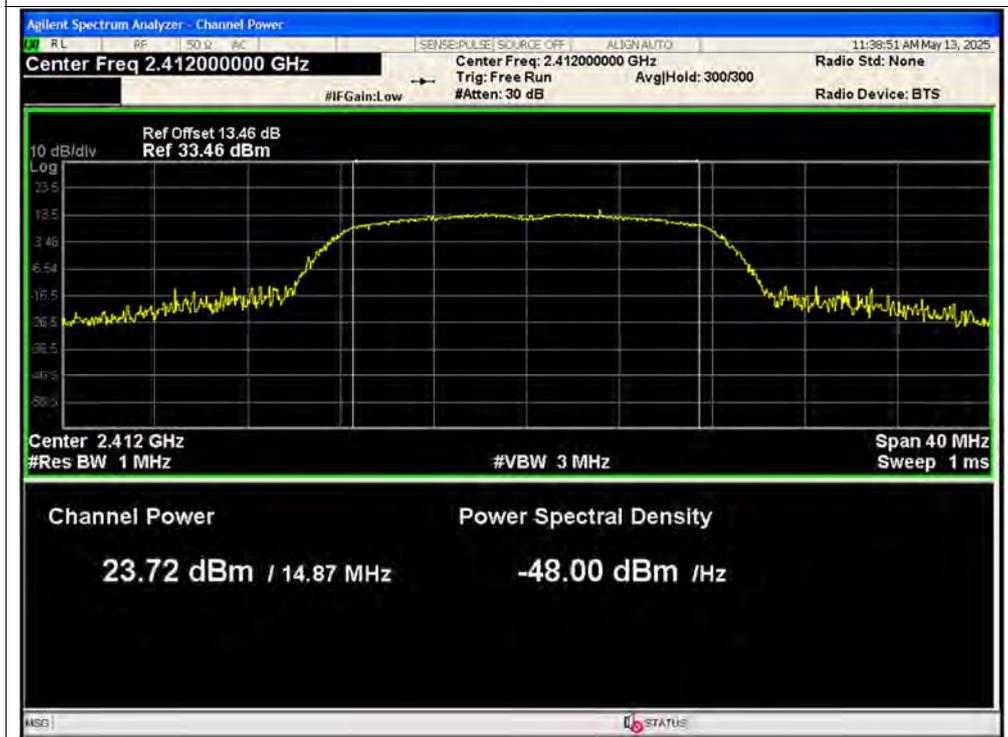




Peak Power NVNT b 2462MHz Ant1

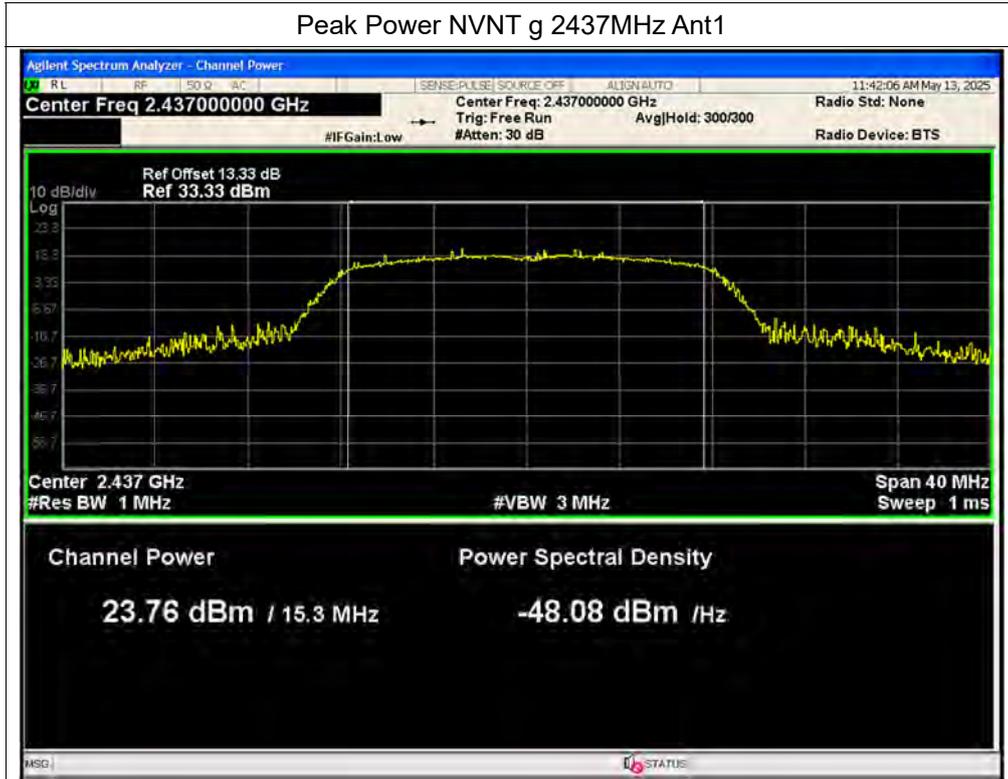


Peak Power NVNT g 2412MHz Ant1

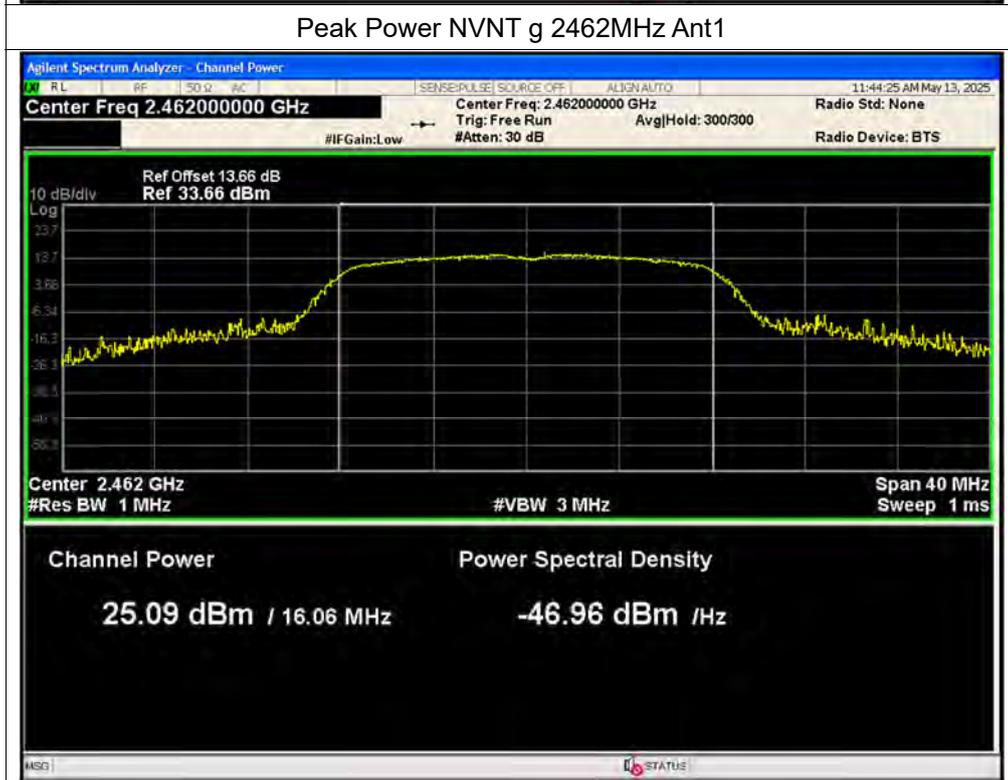




Peak Power NVNT g 2437MHz Ant1

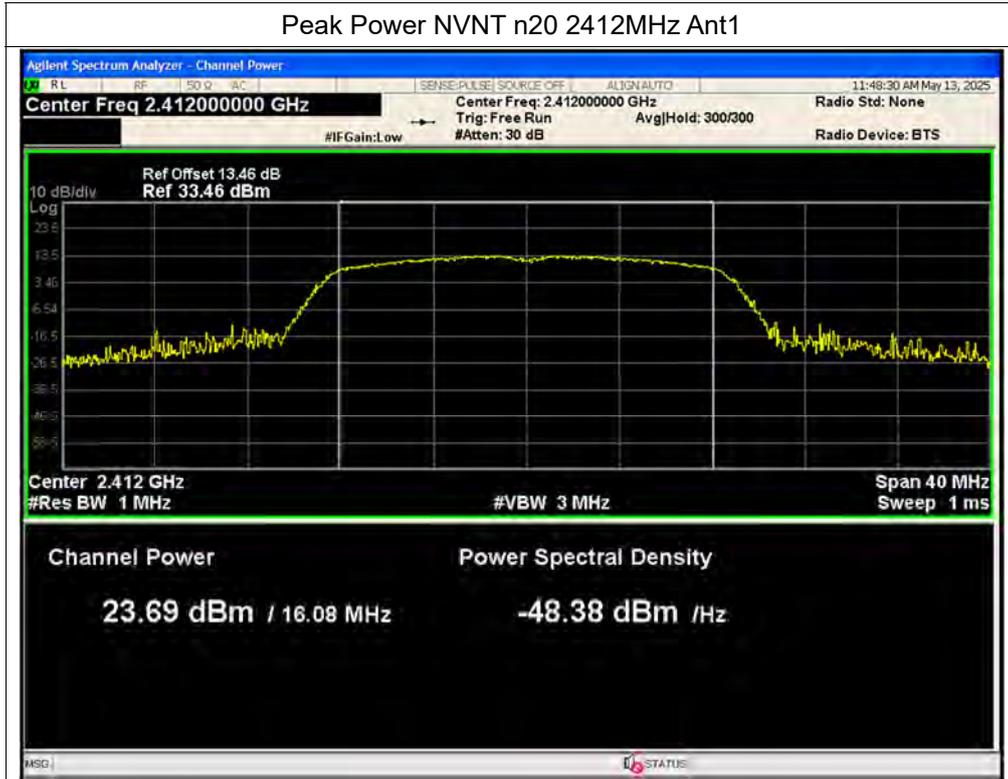


Peak Power NVNT g 2462MHz Ant1

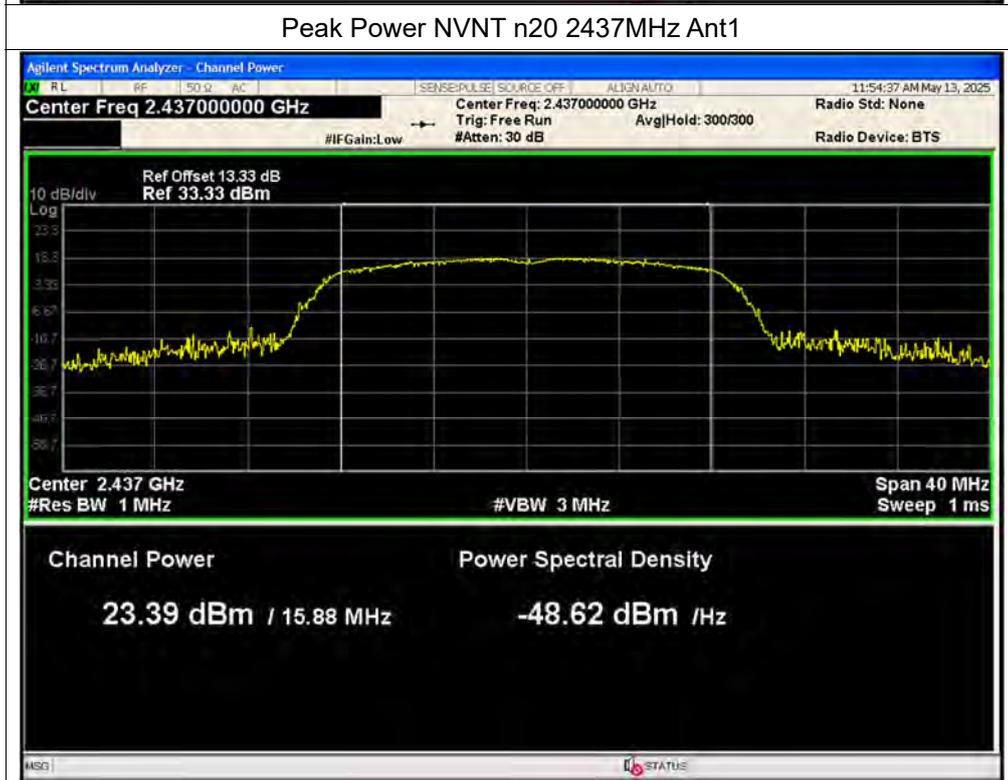


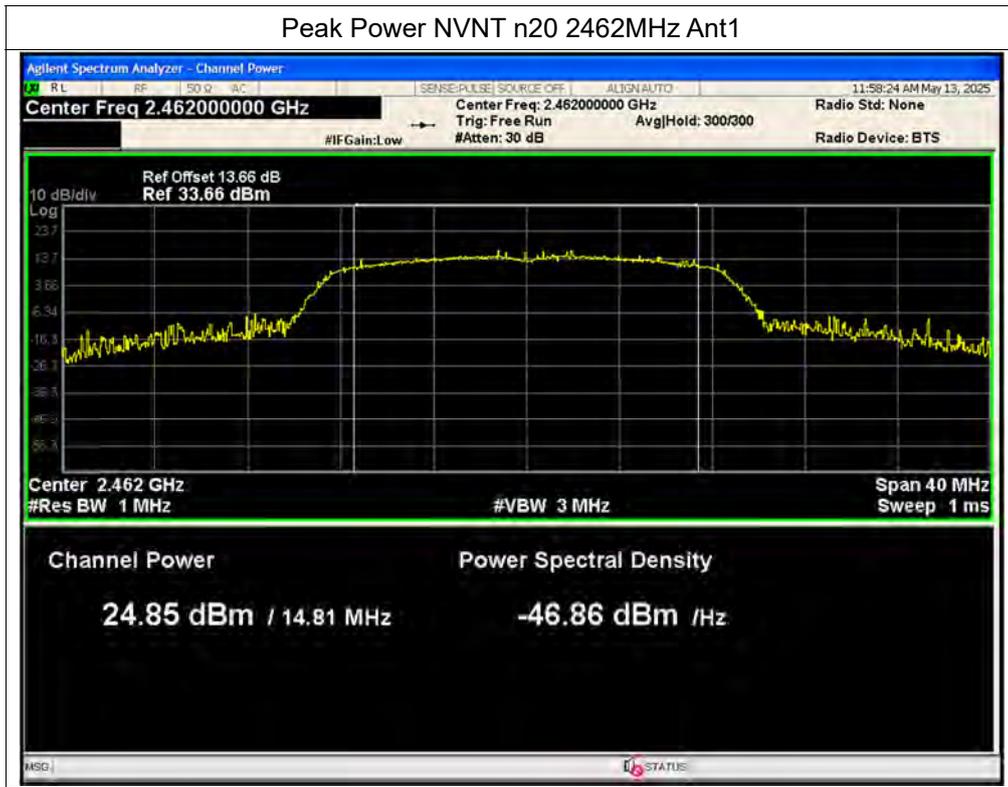


Peak Power NVNT n20 2412MHz Ant1



Peak Power NVNT n20 2437MHz Ant1





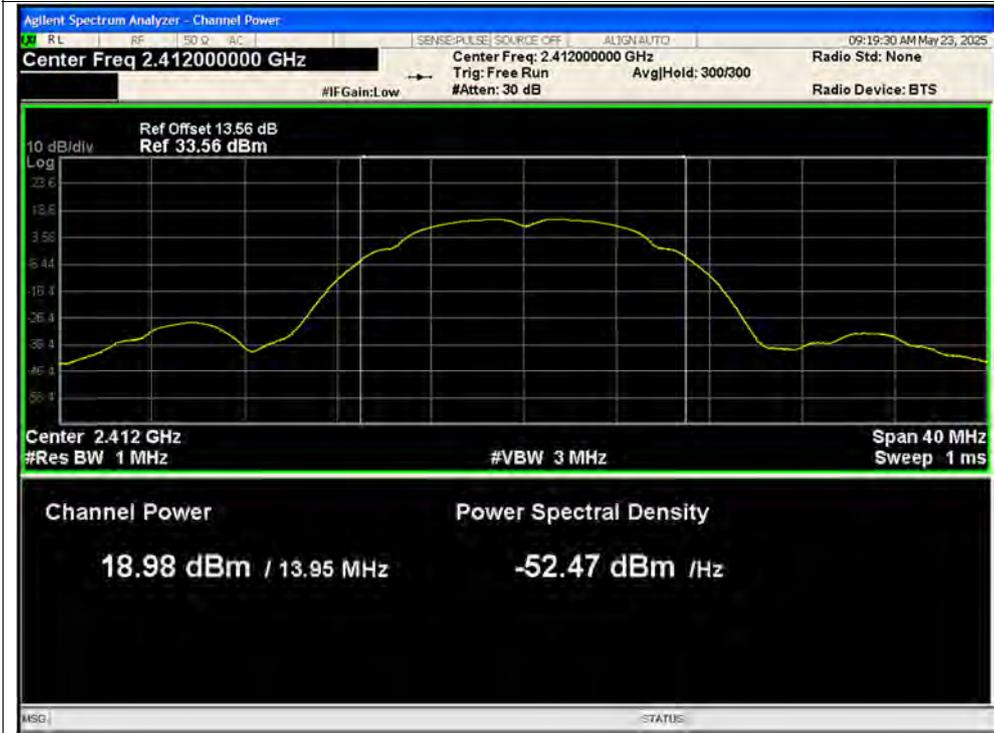
**A.3. Maximum Average Conducted Output Power**

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	18.98	0.58	19.56	0.09036	30	Pass
NVNT	b	2437	Ant1	18.76	0.58	19.34	0.0859	30	Pass
NVNT	b	2462	Ant1	20.25	0.58	20.83	0.12106	30	Pass
NVNT	g	2412	Ant1	16.16	0	16.16	0.0413	30	Pass
NVNT	g	2437	Ant1	16.04	0	16.04	0.04018	30	Pass
NVNT	g	2462	Ant1	17.48	0	17.48	0.05598	30	Pass
NVNT	n20	2412	Ant1	16.13	0	16.13	0.04102	30	Pass
NVNT	n20	2437	Ant1	15.86	0	15.86	0.03855	30	Pass
NVNT	n20	2462	Ant1	17.33	0	17.33	0.05408	30	Pass

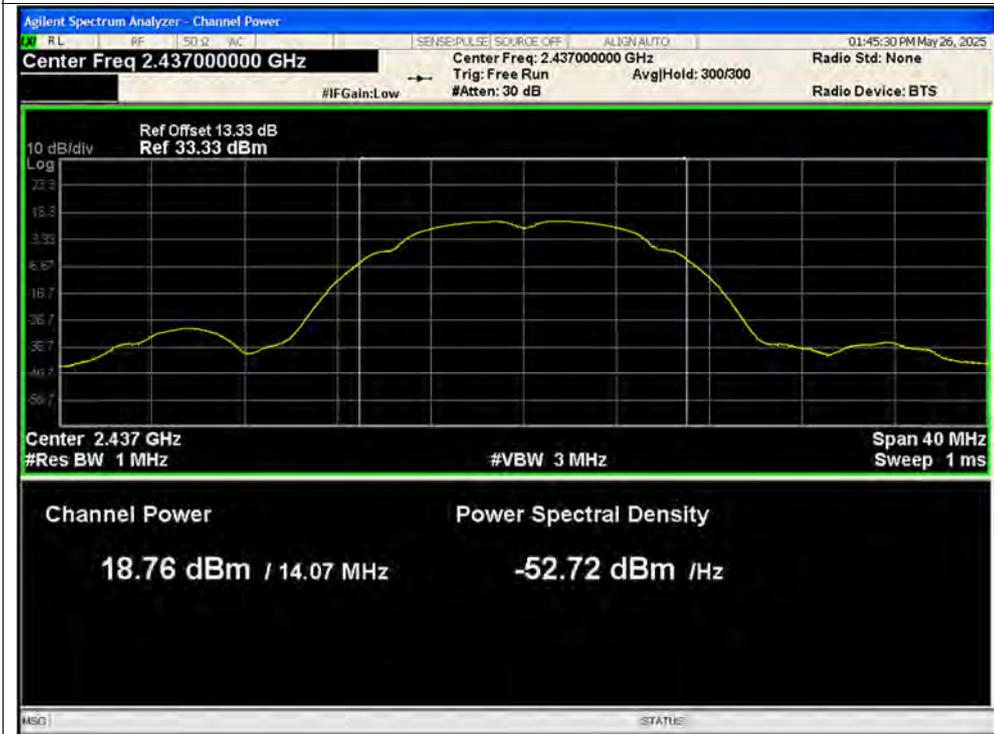


Test Graphs

Average Power NVNT b 2412MHz Ant1

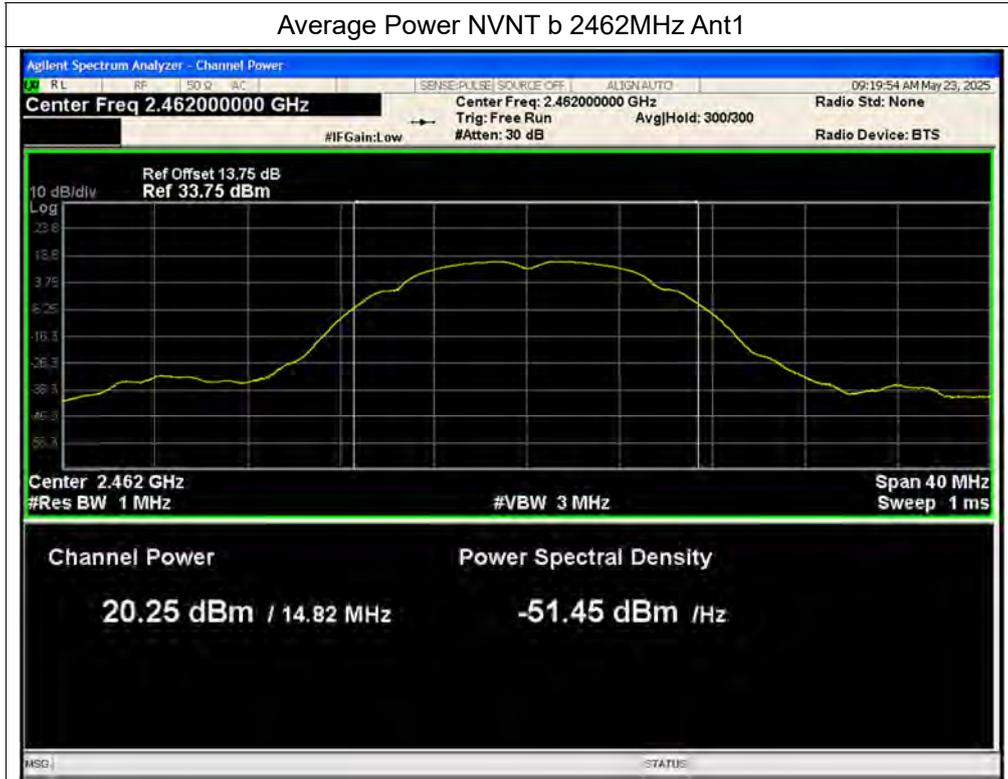


Average Power NVNT b 2437MHz Ant1

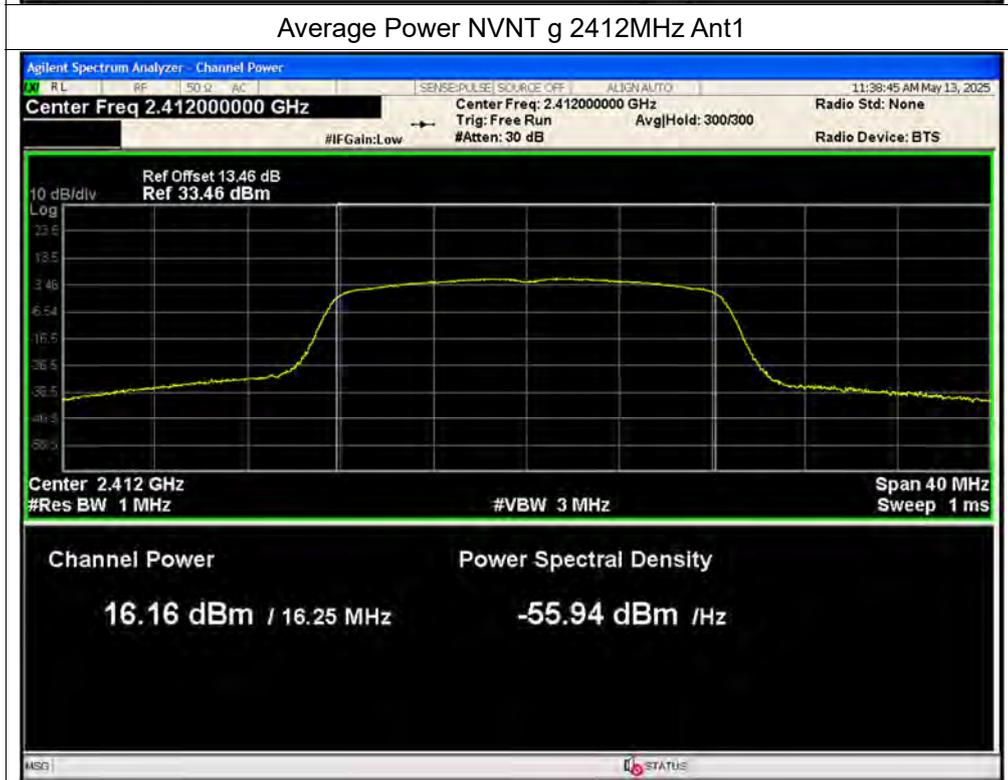




Average Power NVNT b 2462MHz Ant1

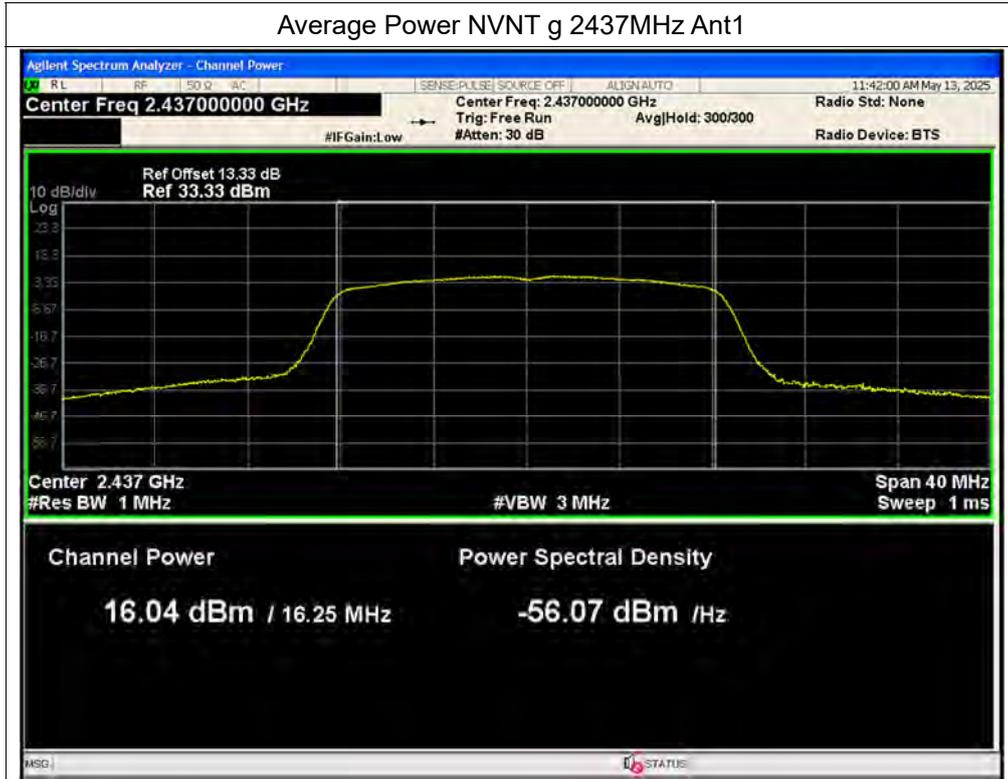


Average Power NVNT g 2412MHz Ant1

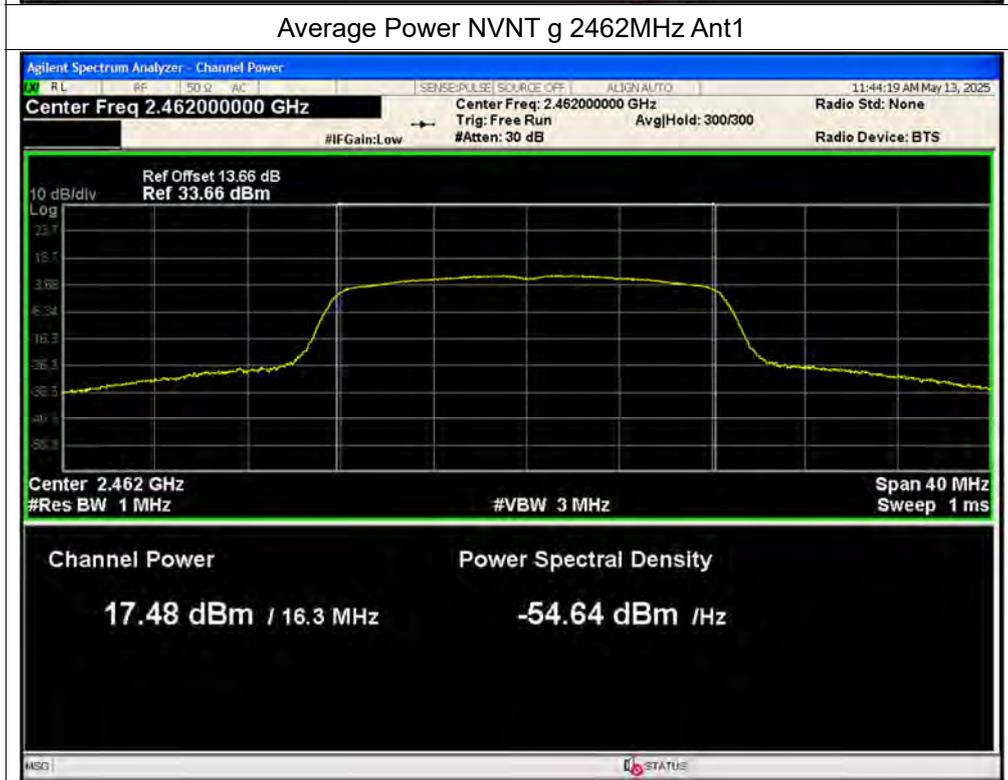




Average Power NVNT g 2437MHz Ant1

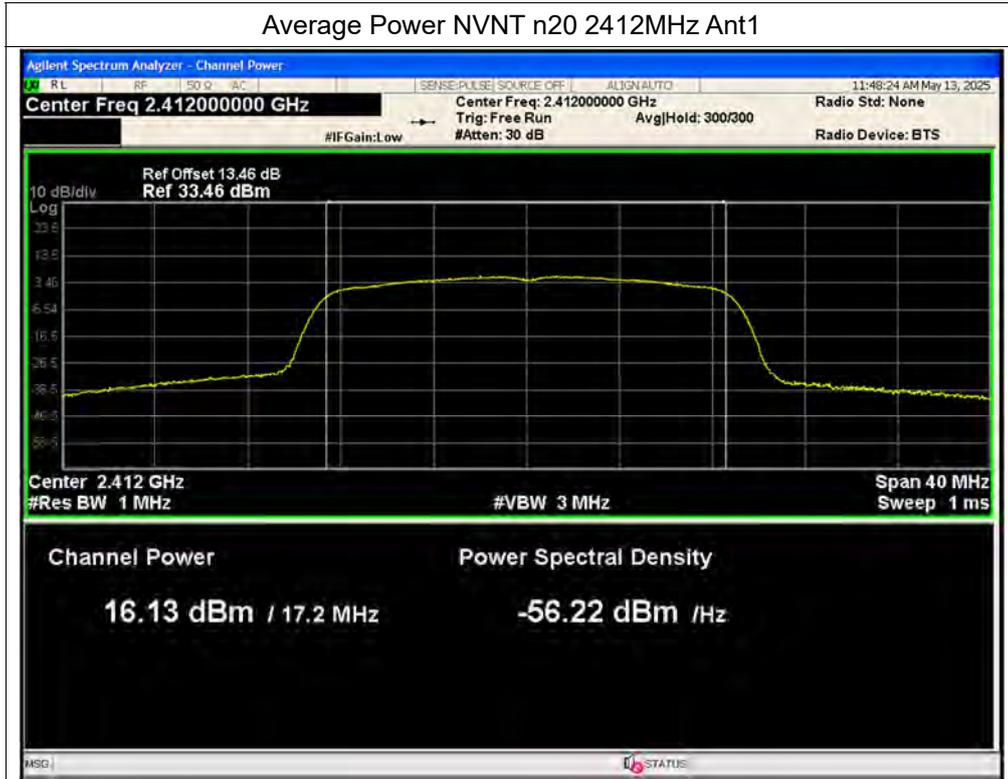


Average Power NVNT g 2462MHz Ant1

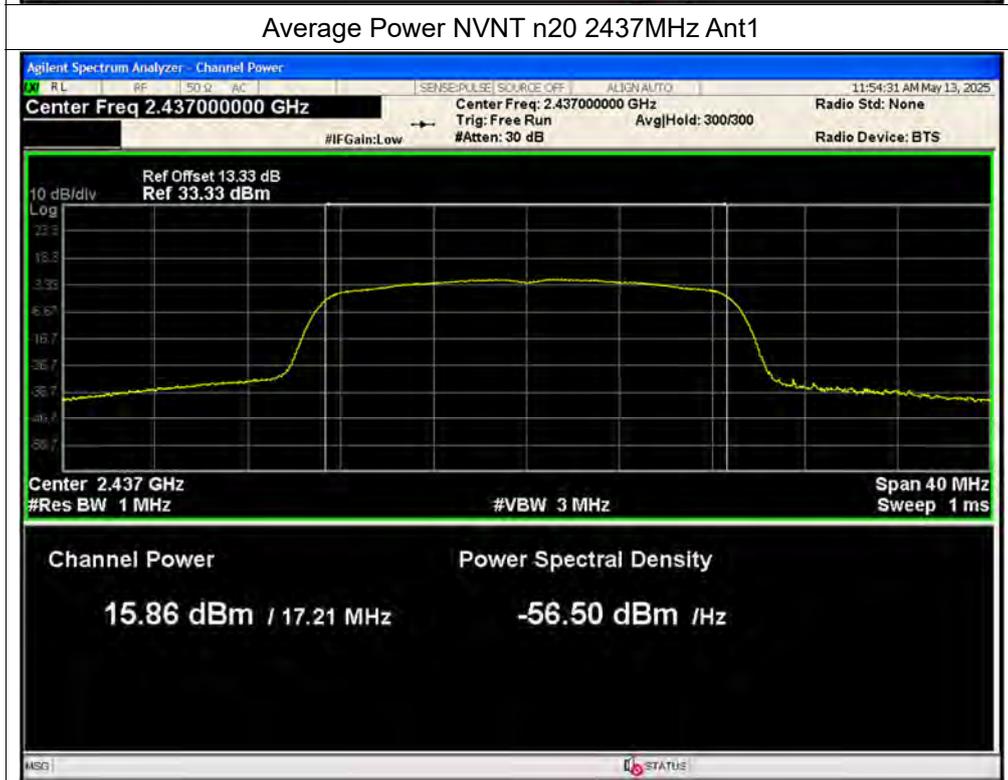


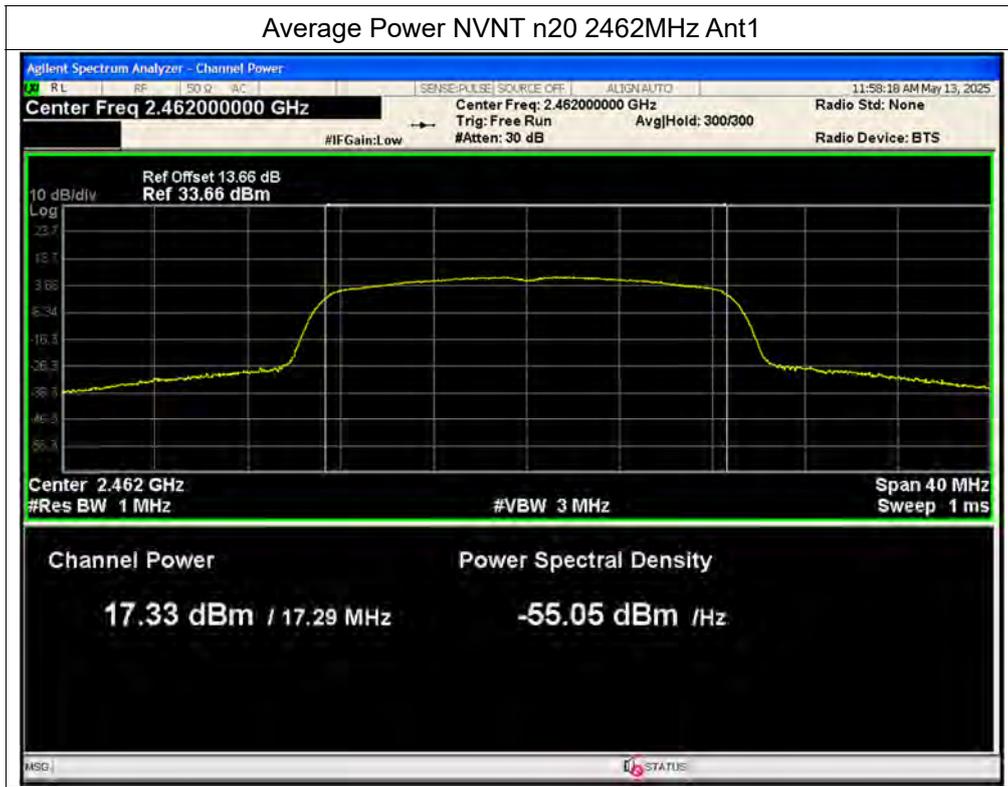


Average Power NVNT n20 2412MHz Ant1



Average Power NVNT n20 2437MHz Ant1





**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.07	0.5	Pass
NVNT	b	2437	Ant1	10.07	0.5	Pass
NVNT	b	2462	Ant1	10.05	0.5	Pass
NVNT	g	2412	Ant1	14.87	0.5	Pass
NVNT	g	2437	Ant1	15.3	0.5	Pass
NVNT	g	2462	Ant1	16.06	0.5	Pass
NVNT	n20	2412	Ant1	16.08	0.5	Pass
NVNT	n20	2437	Ant1	15.88	0.5	Pass
NVNT	n20	2462	Ant1	14.81	0.5	Pass



Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

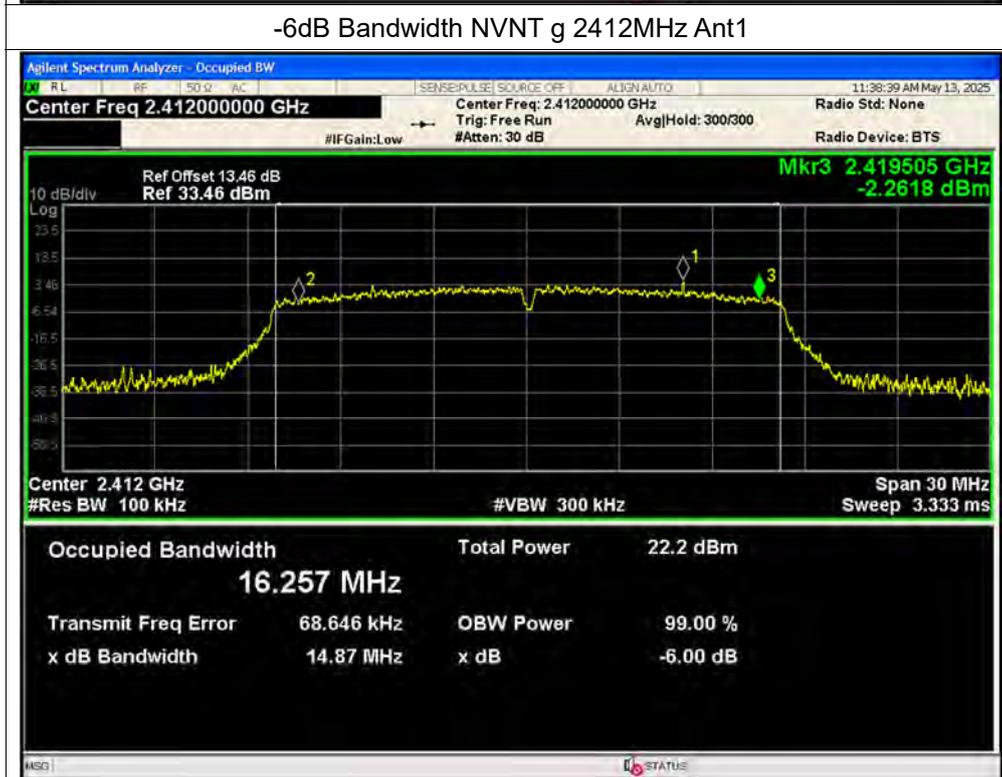




-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

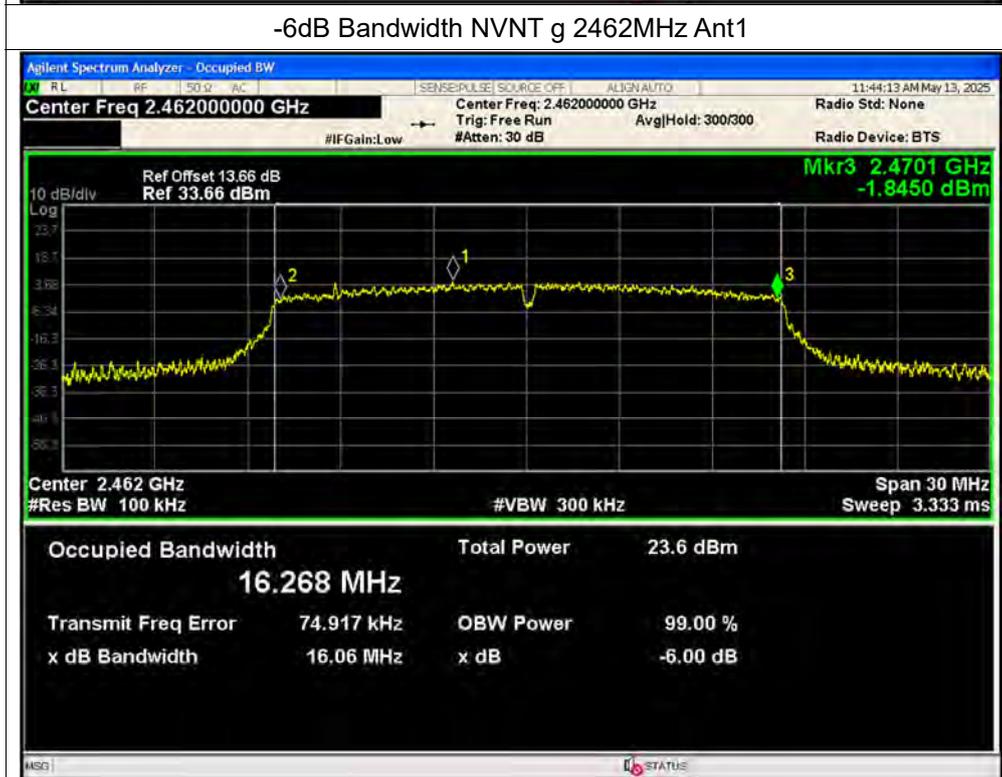




-6dB Bandwidth NVNT g 2437MHz Ant1

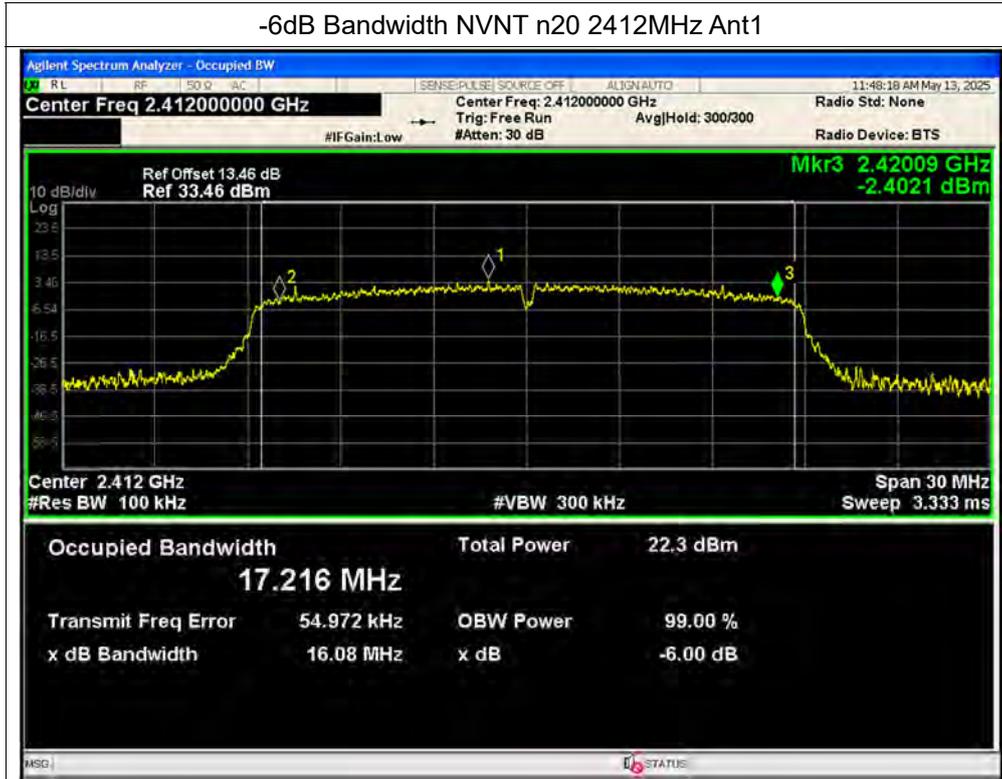


-6dB Bandwidth NVNT g 2462MHz Ant1



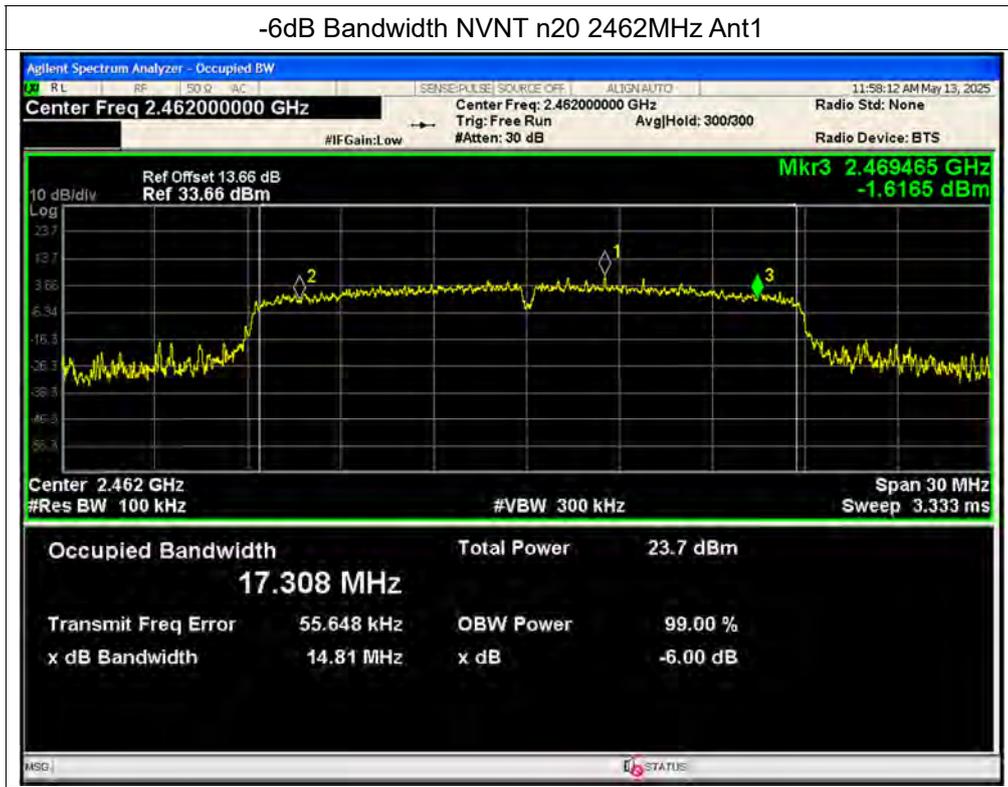


-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1







A.5. Conducted Spurious Emissions

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.11	-20	Pass
NVNT	b	2437	Ant1	-41.52	-20	Pass
NVNT	b	2462	Ant1	-43	-20	Pass
NVNT	g	2412	Ant1	-33.6	-20	Pass
NVNT	g	2437	Ant1	-33.27	-20	Pass
NVNT	g	2462	Ant1	-35.11	-20	Pass
NVNT	n20	2412	Ant1	-31.87	-20	Pass
NVNT	n20	2437	Ant1	-33.11	-20	Pass
NVNT	n20	2462	Ant1	-35.51	-20	Pass

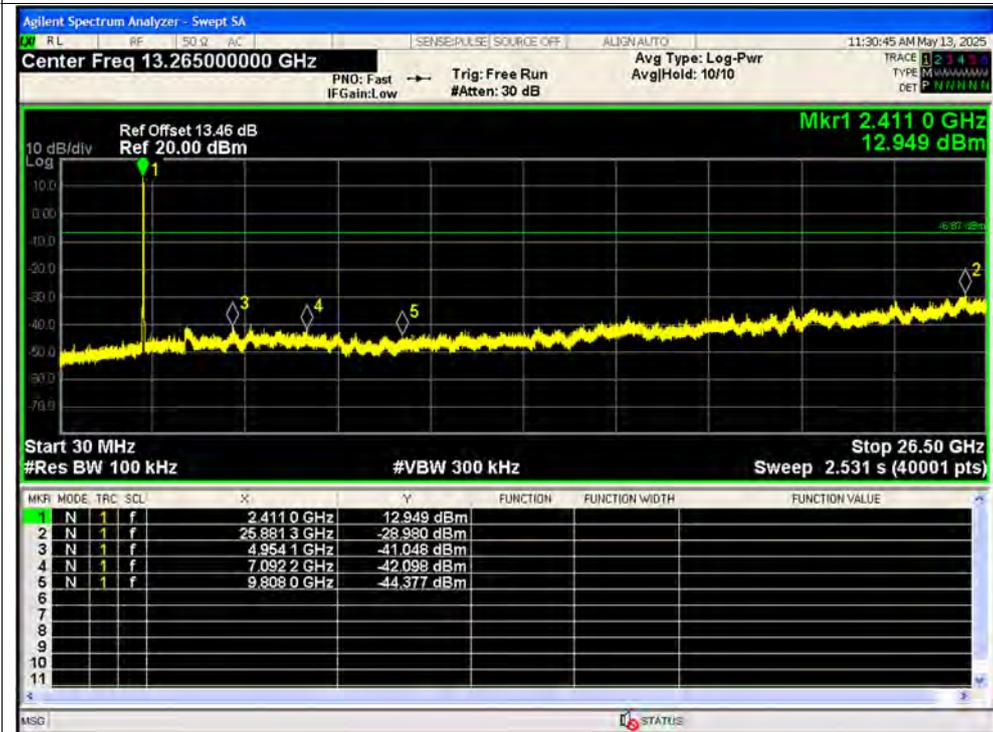


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

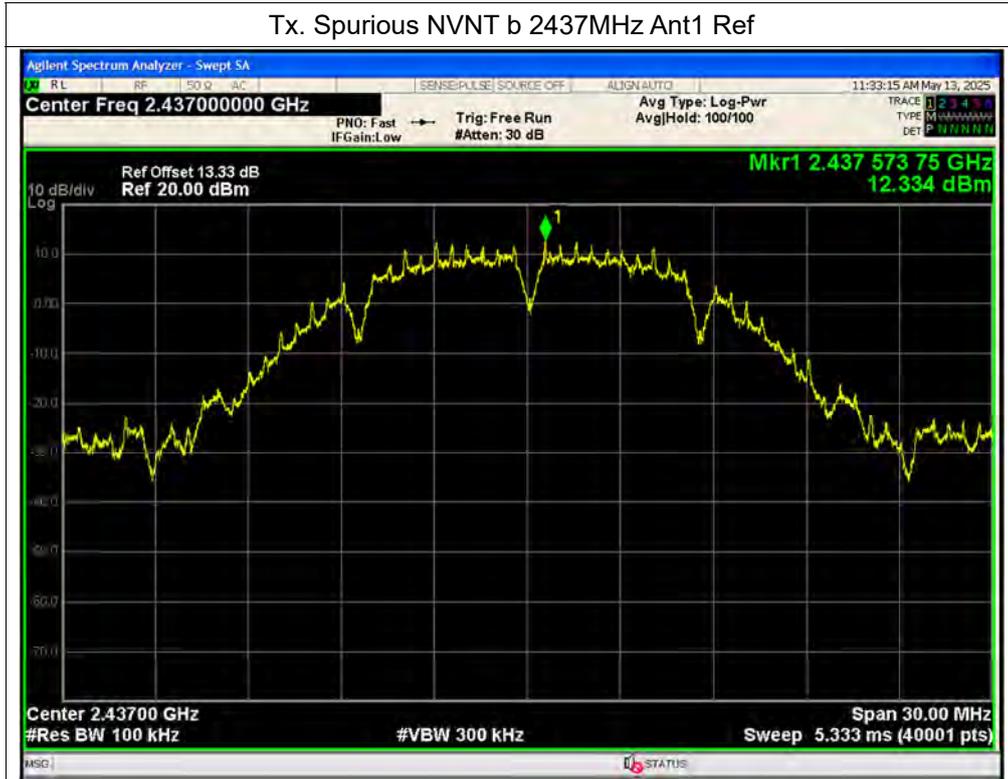


Tx. Spurious NVNT b 2412MHz Ant1 Emission

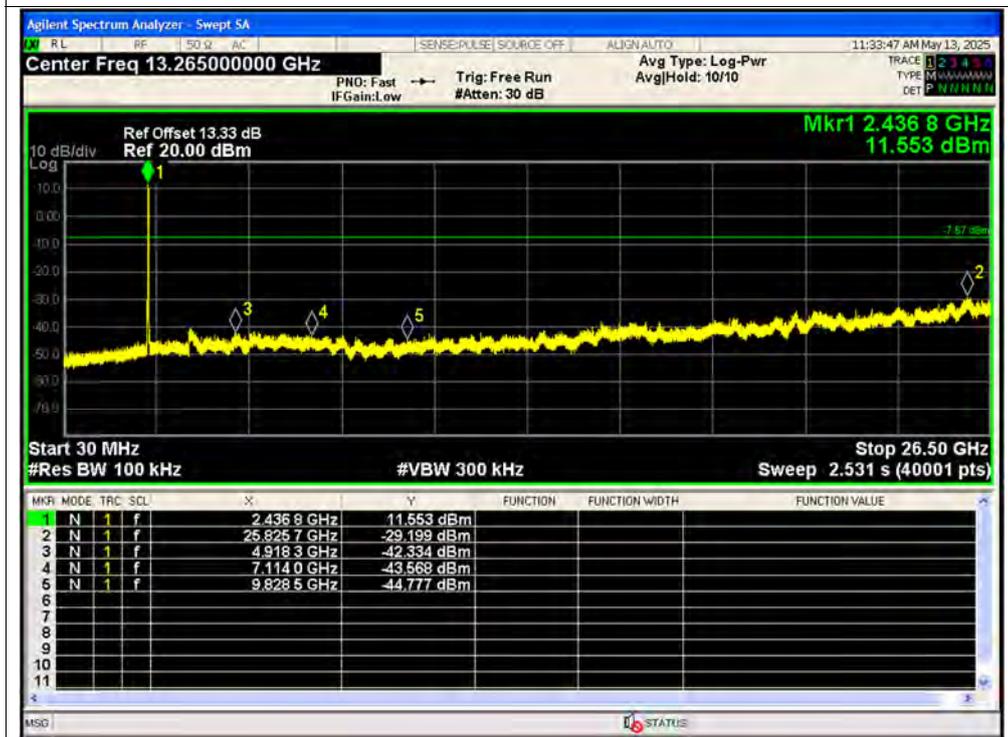




Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

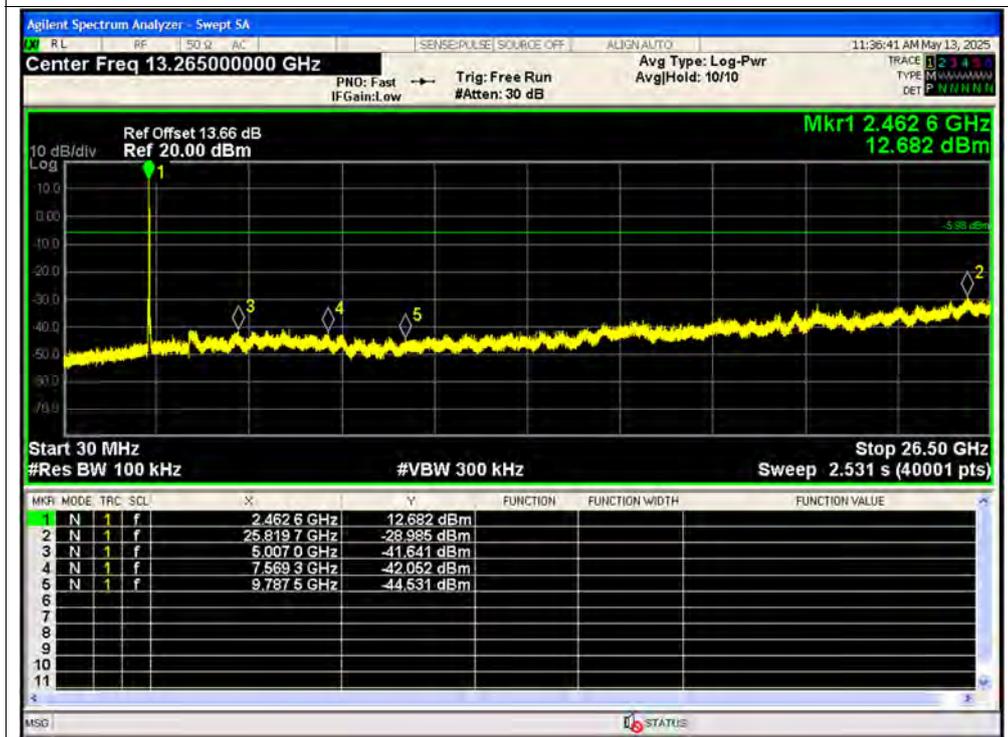




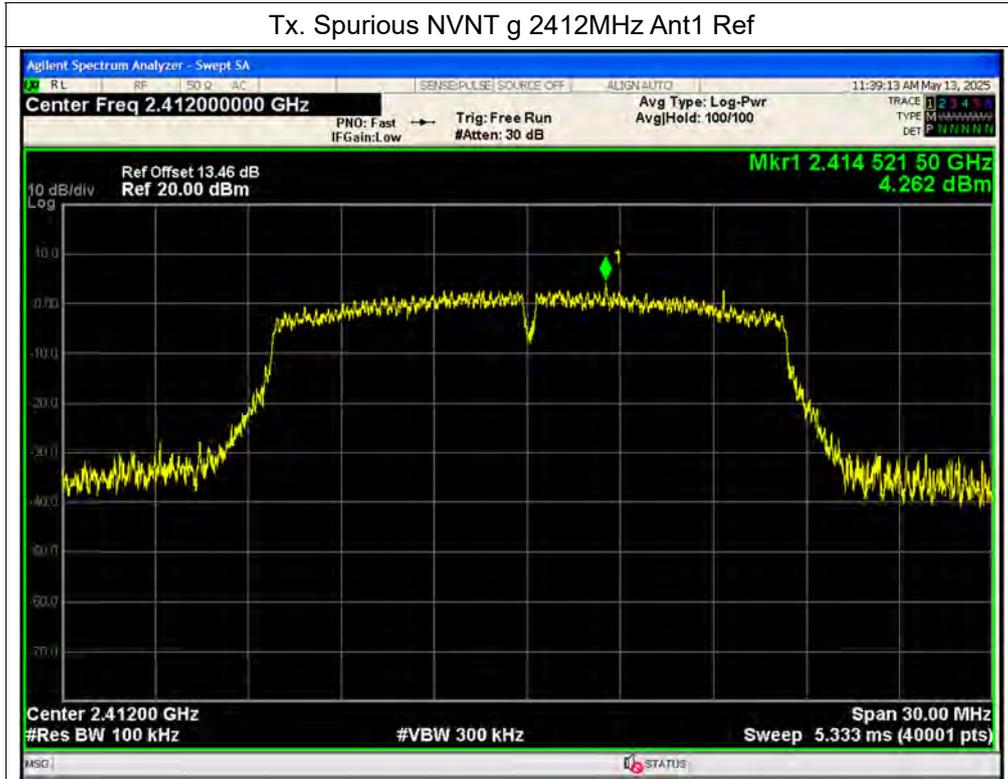
Tx. Spurious NVNT b 2462MHz Ant1 Ref



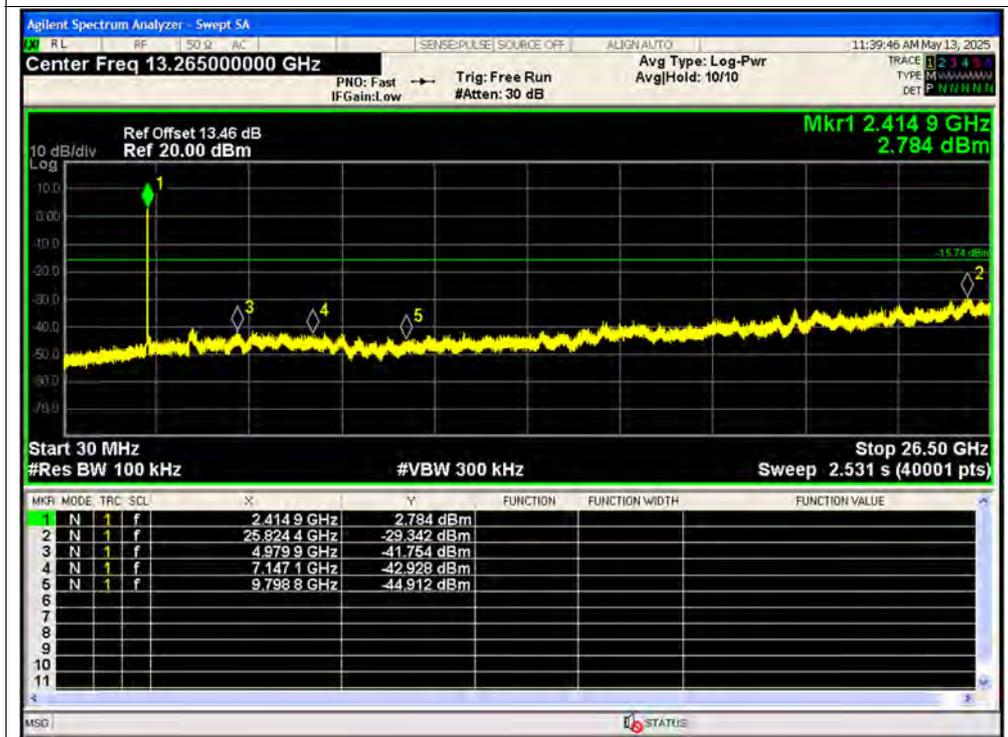
Tx. Spurious NVNT b 2462MHz Ant1 Emission



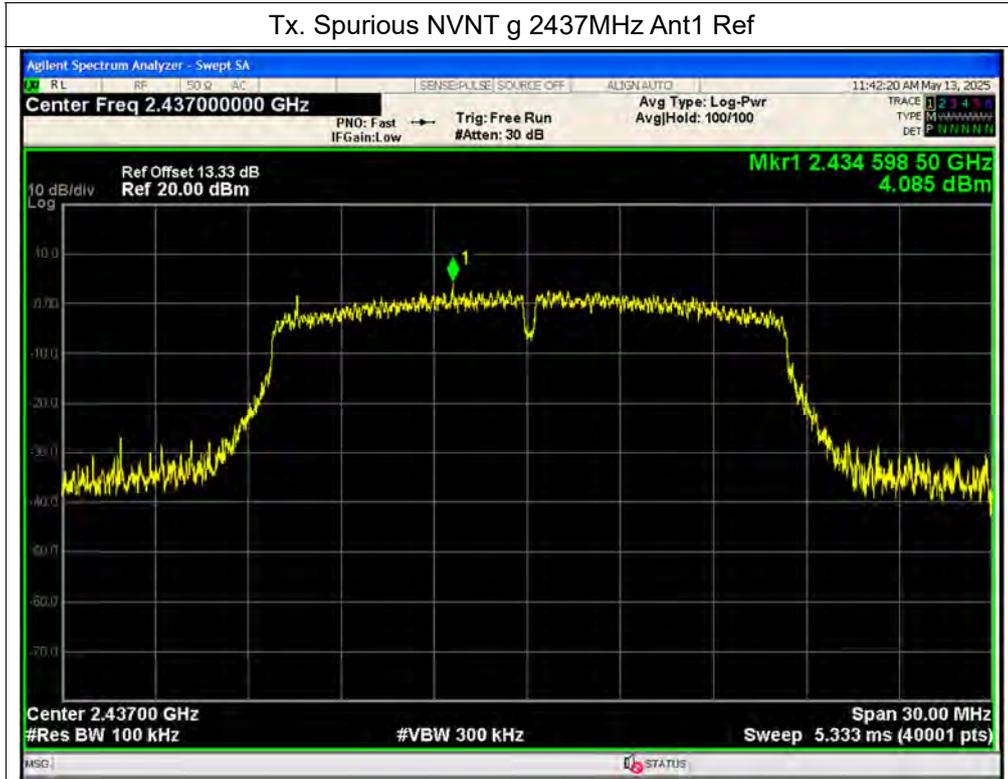
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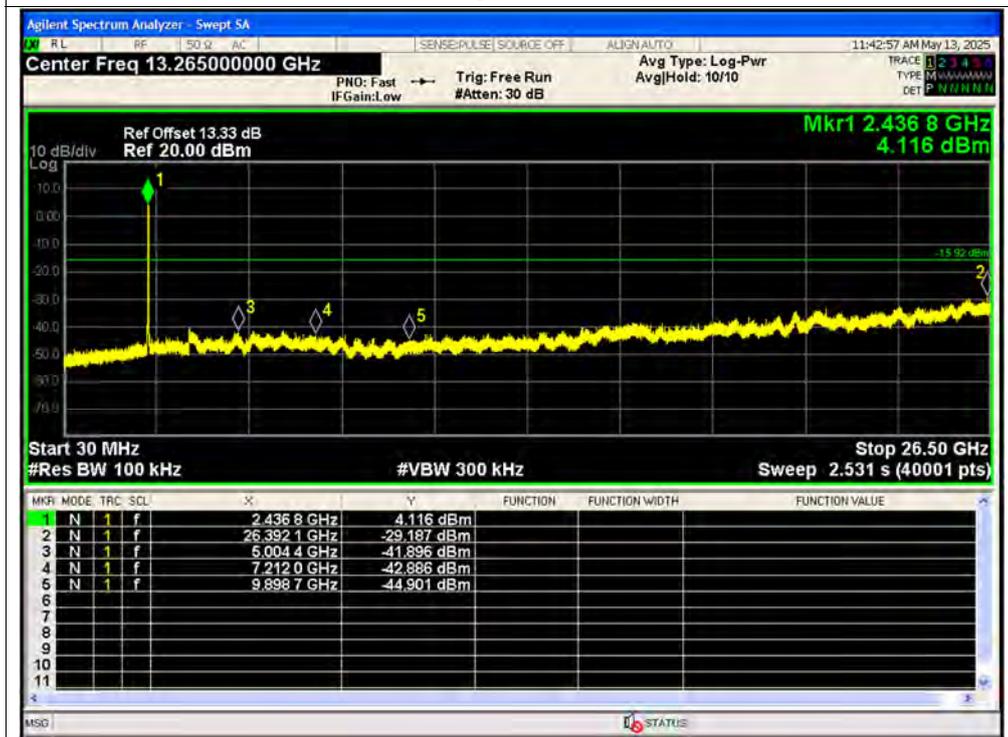
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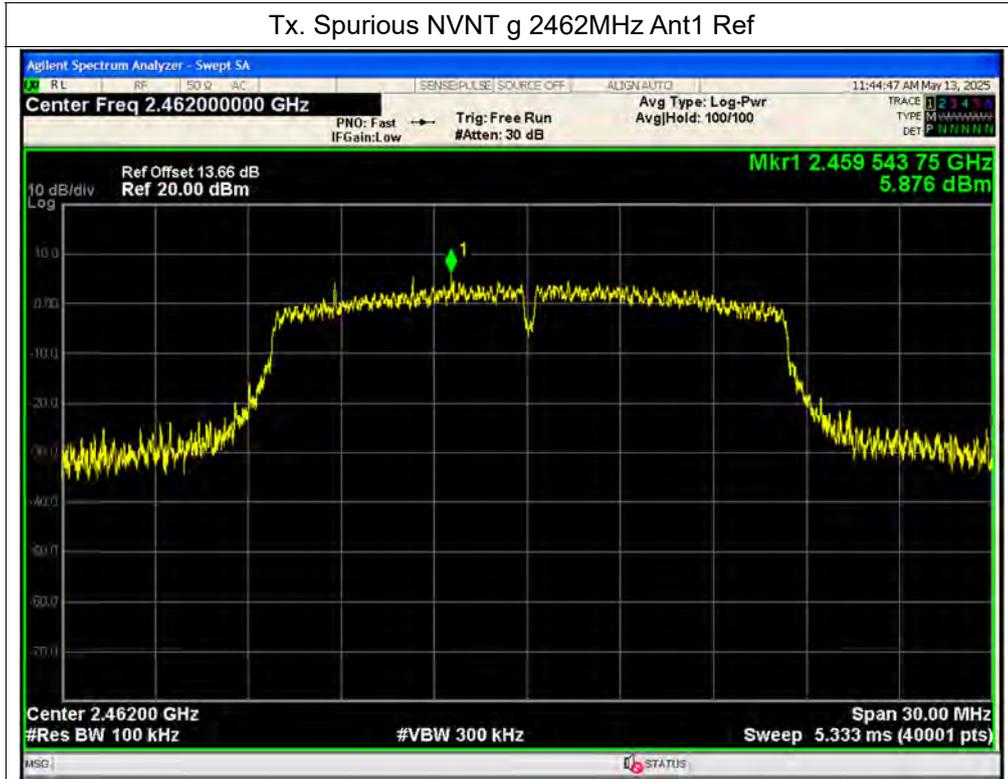
Tx. Spurious NVNT g 2437MHz Ant1 Ref



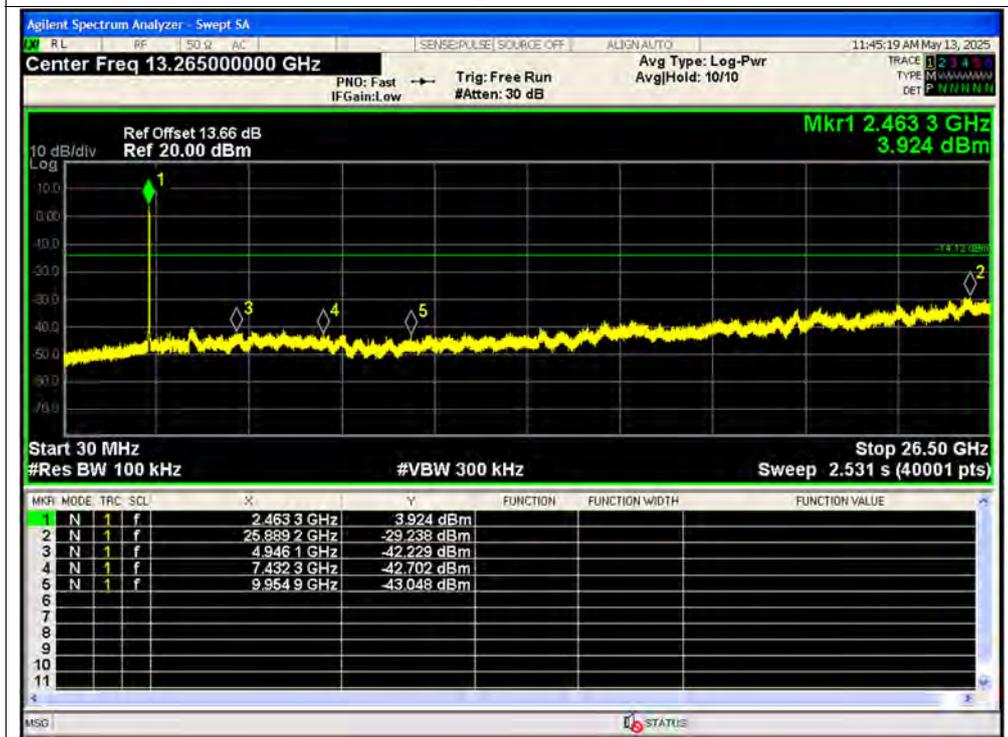
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref

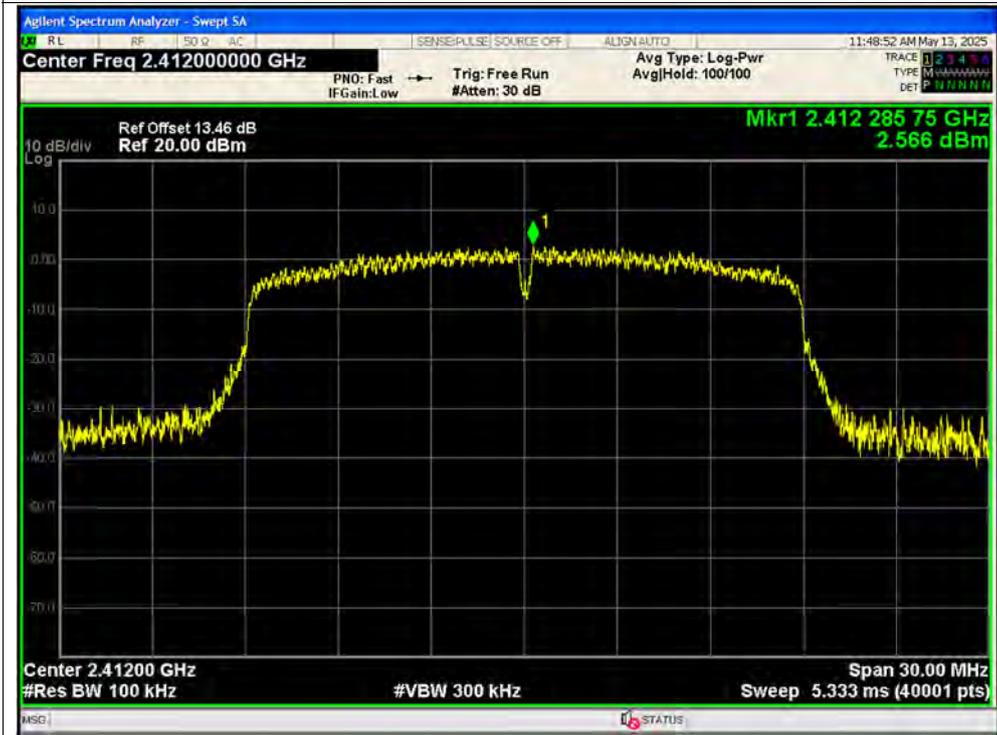


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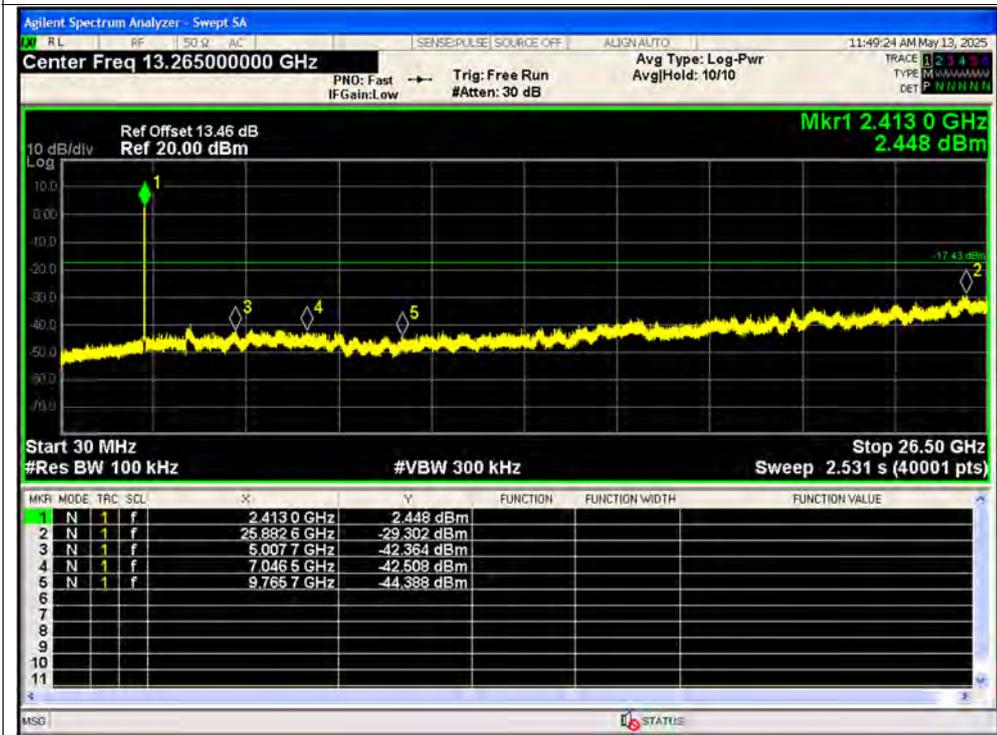




Tx. Spurious NVNT n20 2412MHz Ant1 Ref

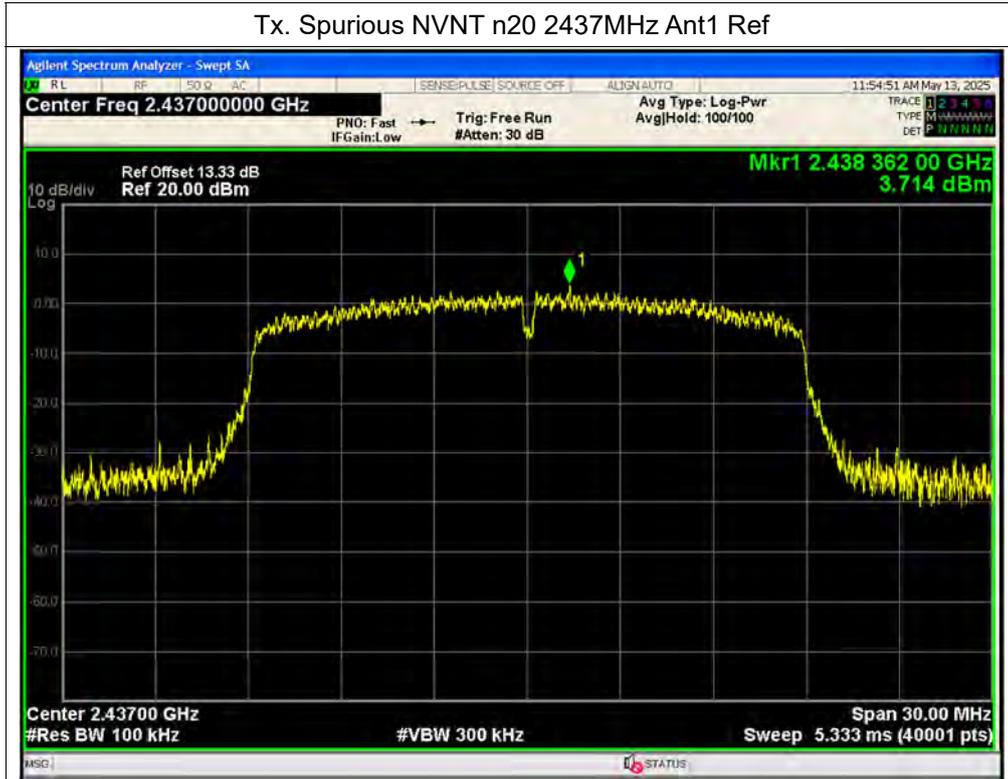


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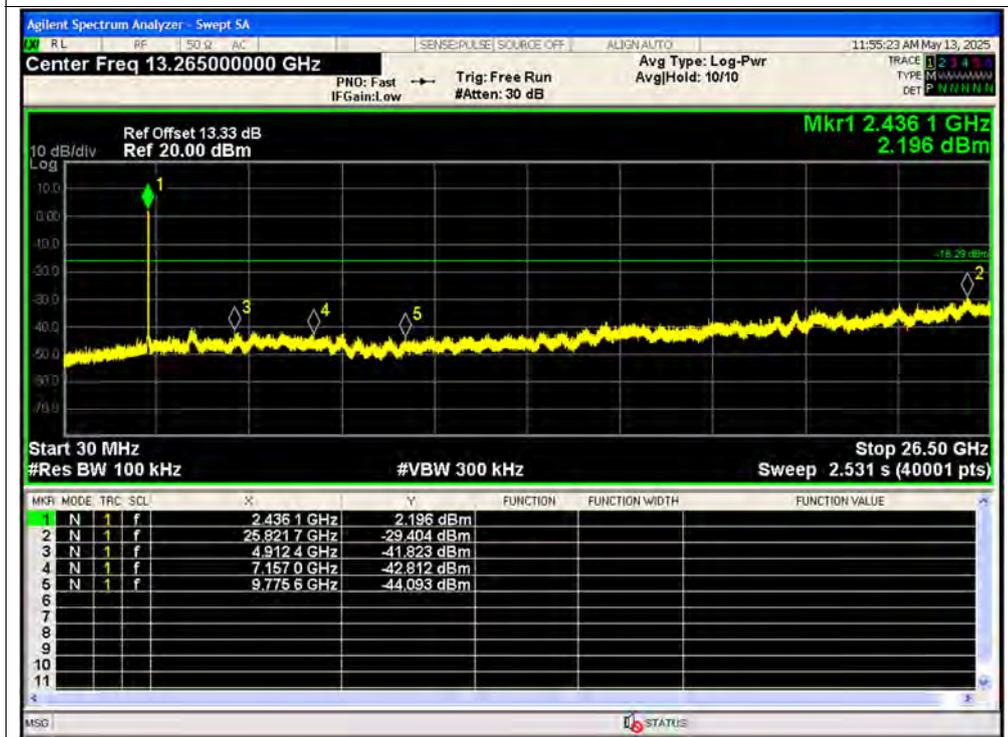




Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission

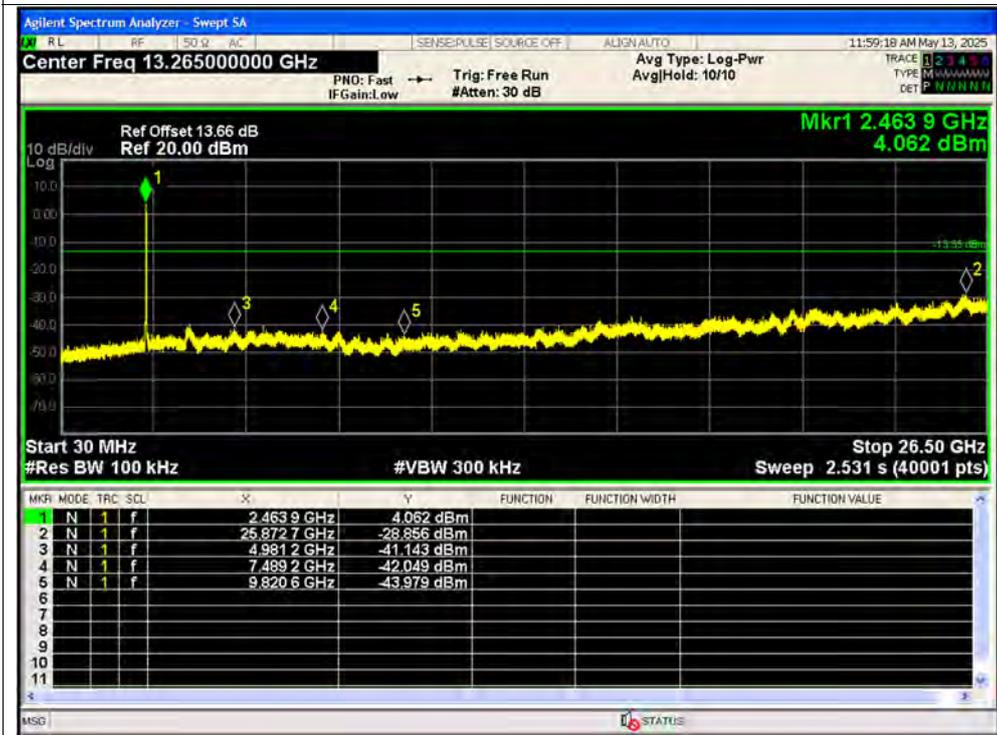




Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission





A.6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.66	-20	Pass
NVNT	b	2462	Ant1	-40.92	-20	Pass
NVNT	g	2412	Ant1	-34.18	-20	Pass
NVNT	g	2462	Ant1	-43.84	-20	Pass
NVNT	n20	2412	Ant1	-32.65	-20	Pass
NVNT	n20	2462	Ant1	-38.71	-20	Pass



Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

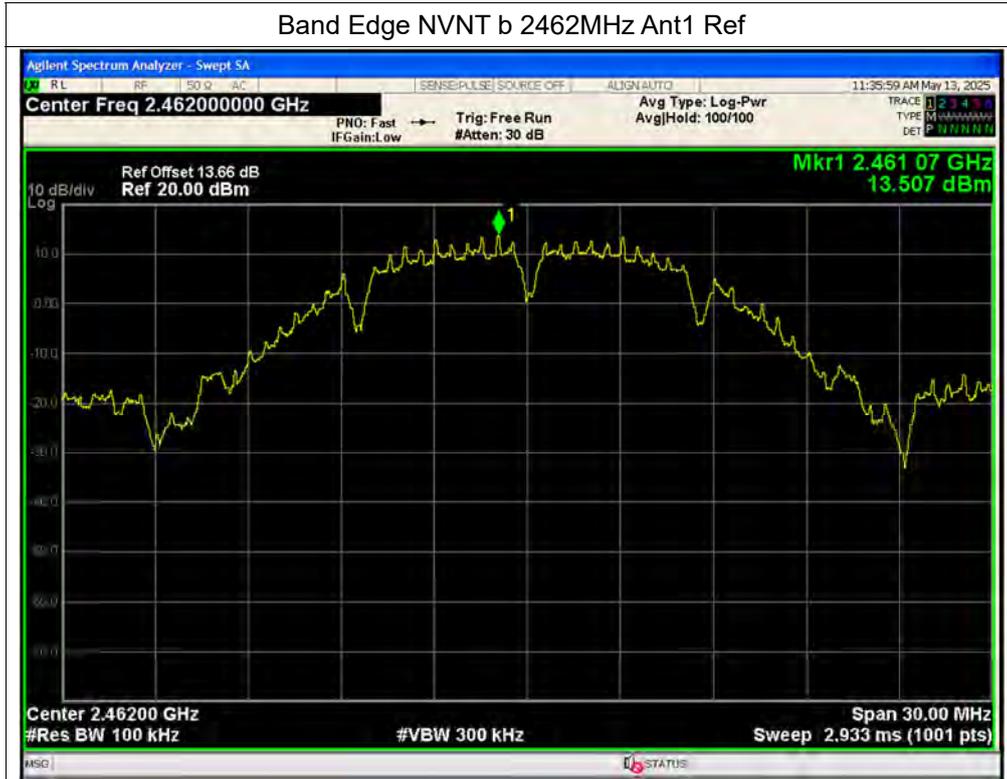


Band Edge NVNT b 2412MHz Ant1 Emission





Band Edge NVNT b 2462MHz Ant1 Ref

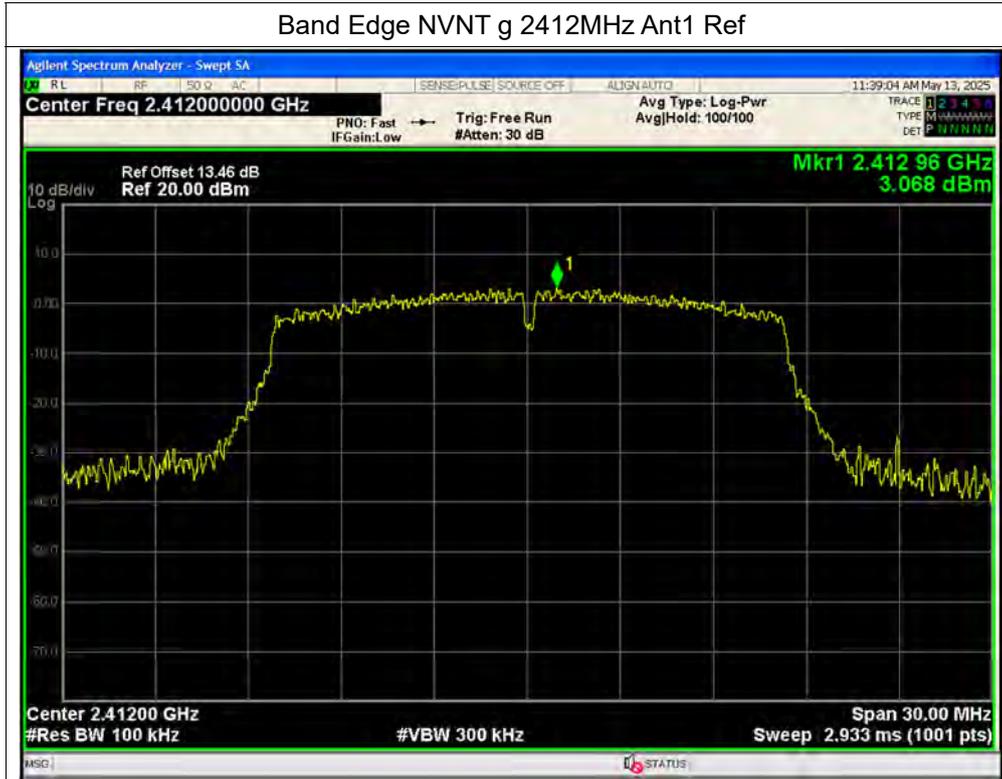


Band Edge NVNT b 2462MHz Ant1 Emission

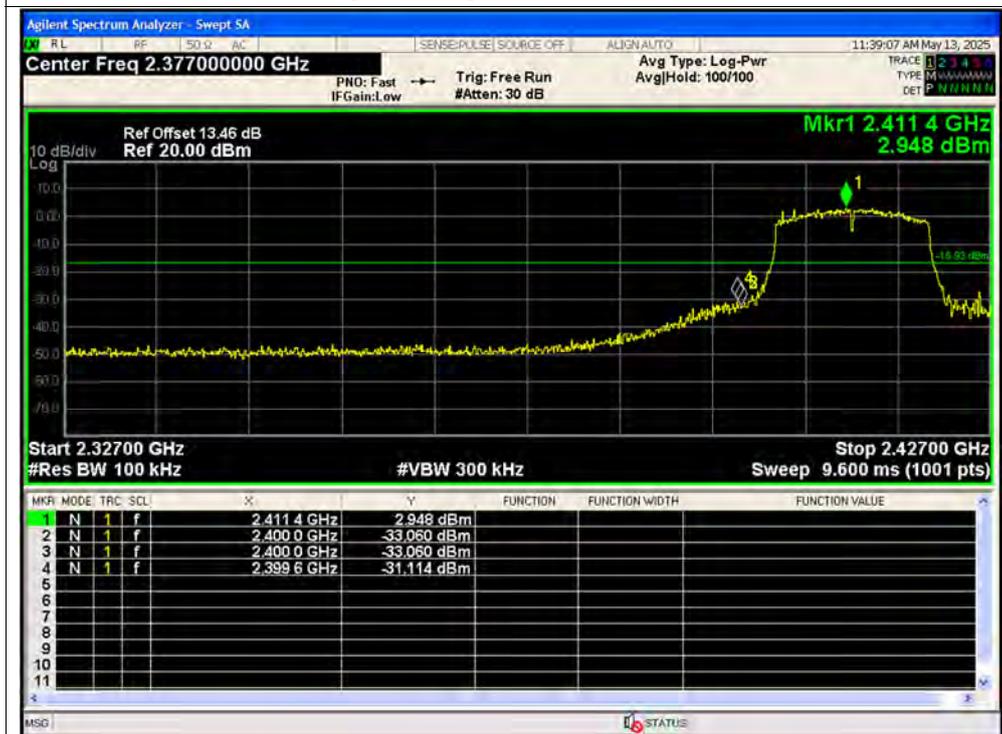




Band Edge NVNT g 2412MHz Ant1 Ref

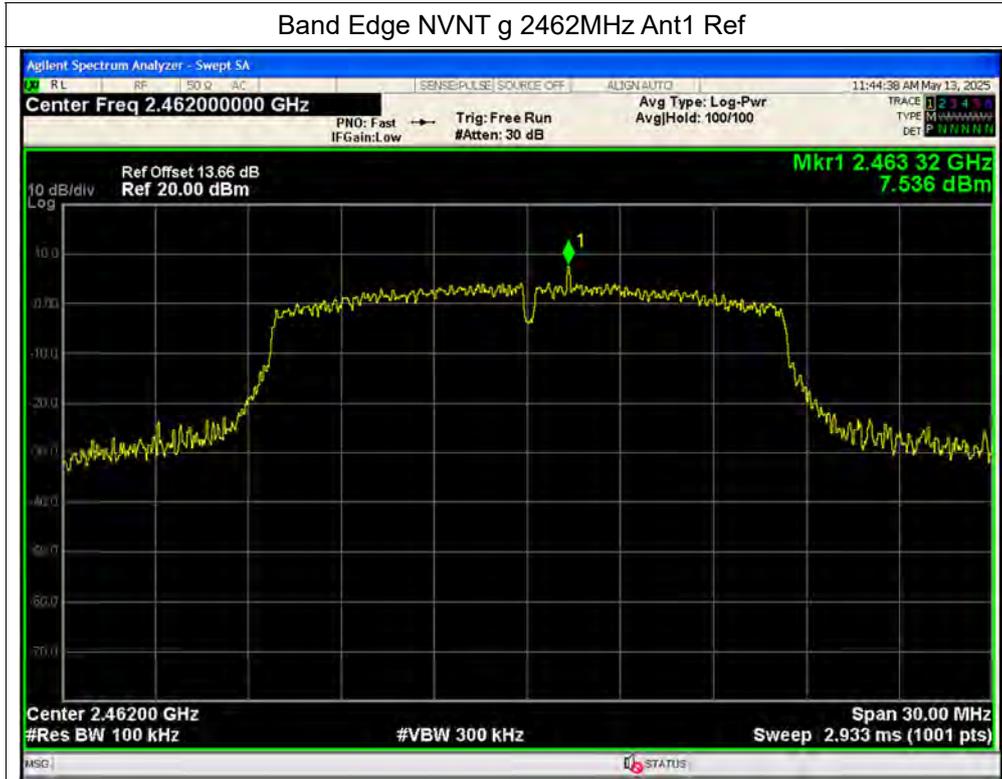


Band Edge NVNT g 2412MHz Ant1 Emission





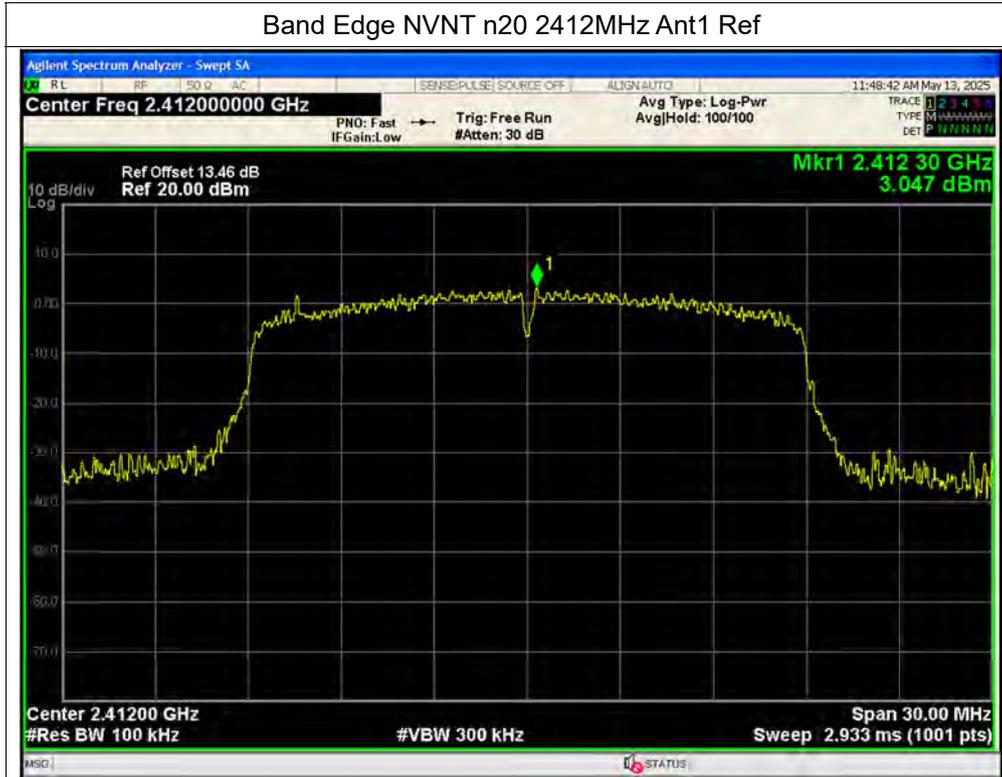
Band Edge NVNT g 2462MHz Ant1 Ref



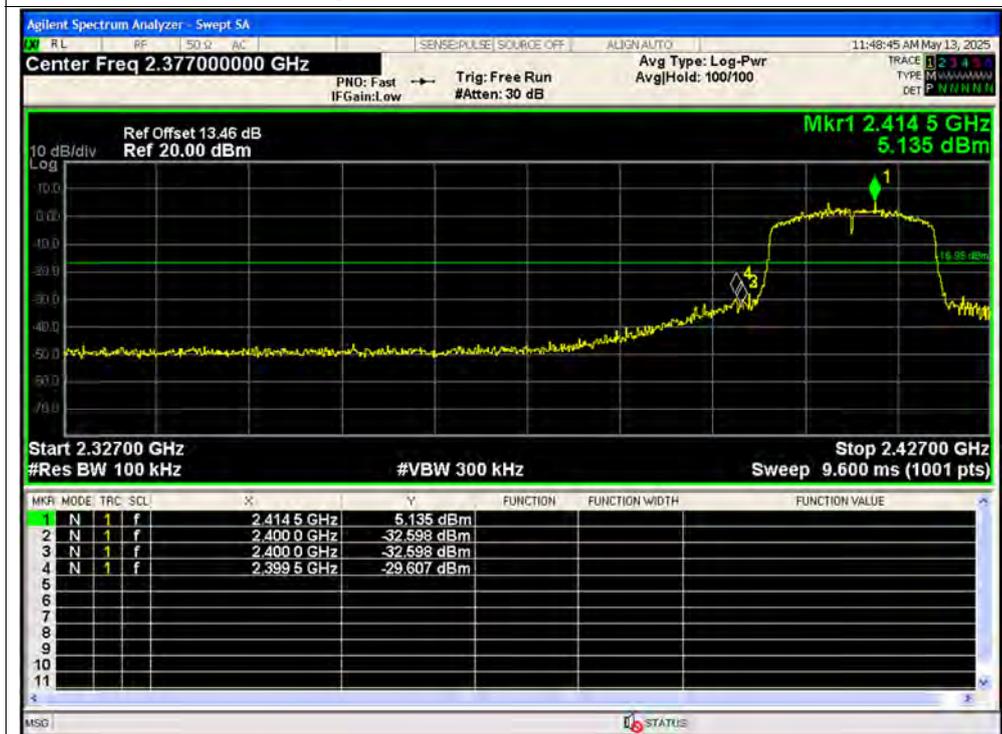
Band Edge NVNT g 2462MHz Ant1 Emission



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



**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	3.01	0	3.01	8	Pass
NVNT	b	2437	Ant1	0.23	0	0.23	8	Pass
NVNT	b	2462	Ant1	3.19	0	3.19	8	Pass
NVNT	g	2412	Ant1	-9.13	0	-9.13	8	Pass
NVNT	g	2437	Ant1	-7.99	0	-7.99	8	Pass
NVNT	g	2462	Ant1	-8.2	0	-8.2	8	Pass
NVNT	n20	2412	Ant1	-9.07	0	-9.07	8	Pass
NVNT	n20	2437	Ant1	-9.58	0	-9.58	8	Pass
NVNT	n20	2462	Ant1	-6.66	0	-6.66	8	Pass

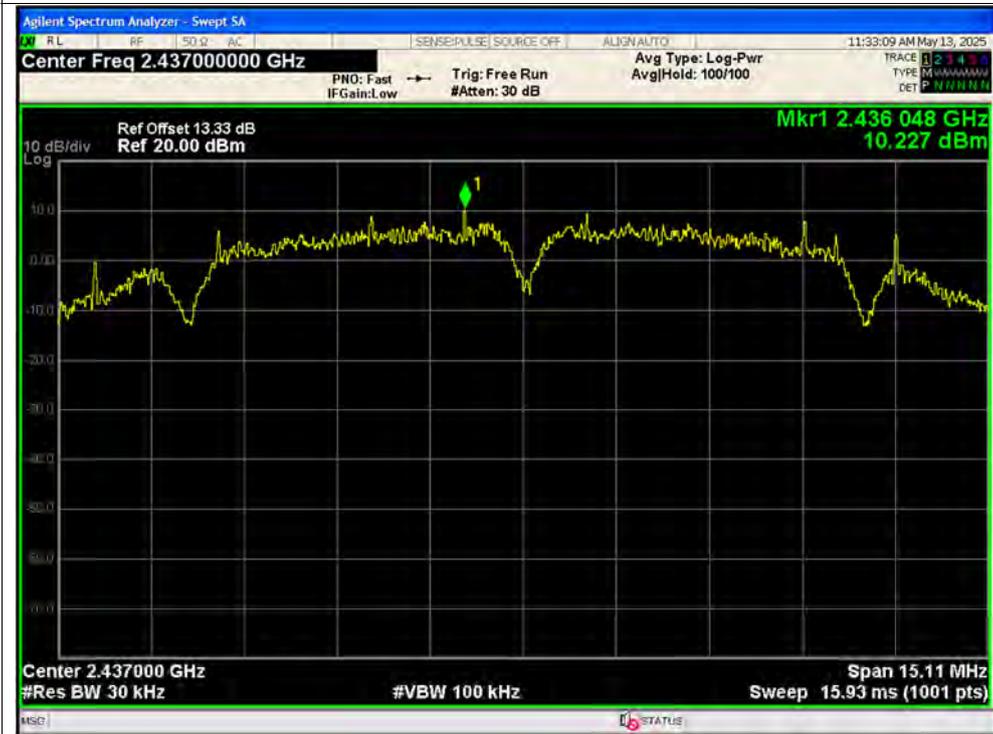


Test Graphs

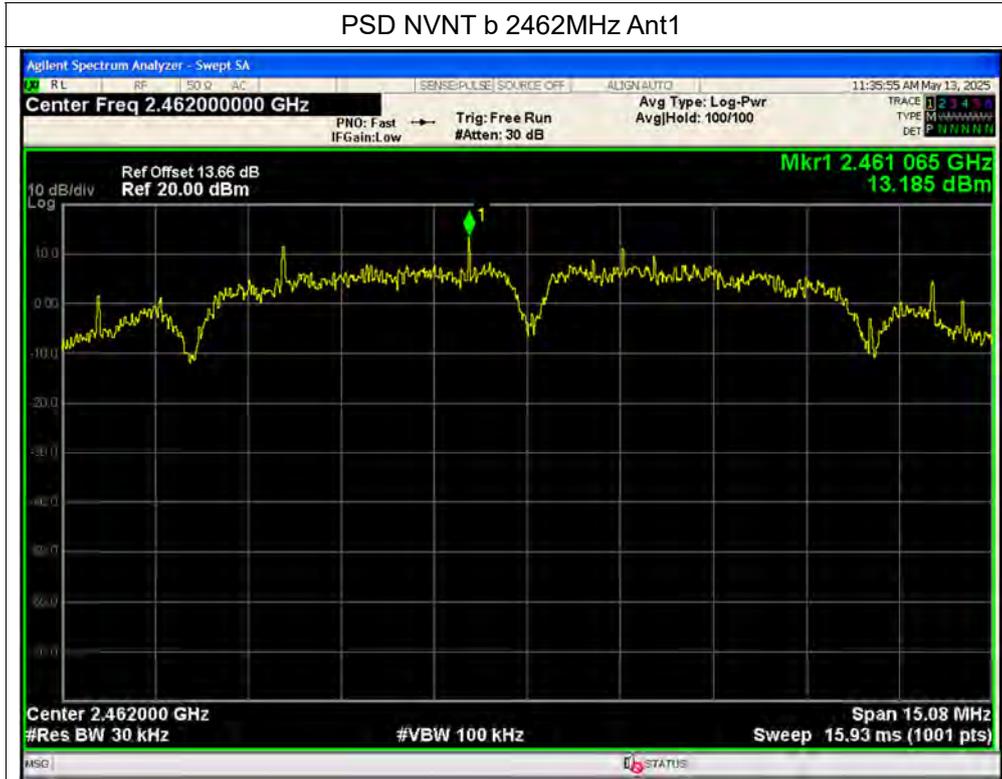
PSD NVNT b 2412MHz Ant1



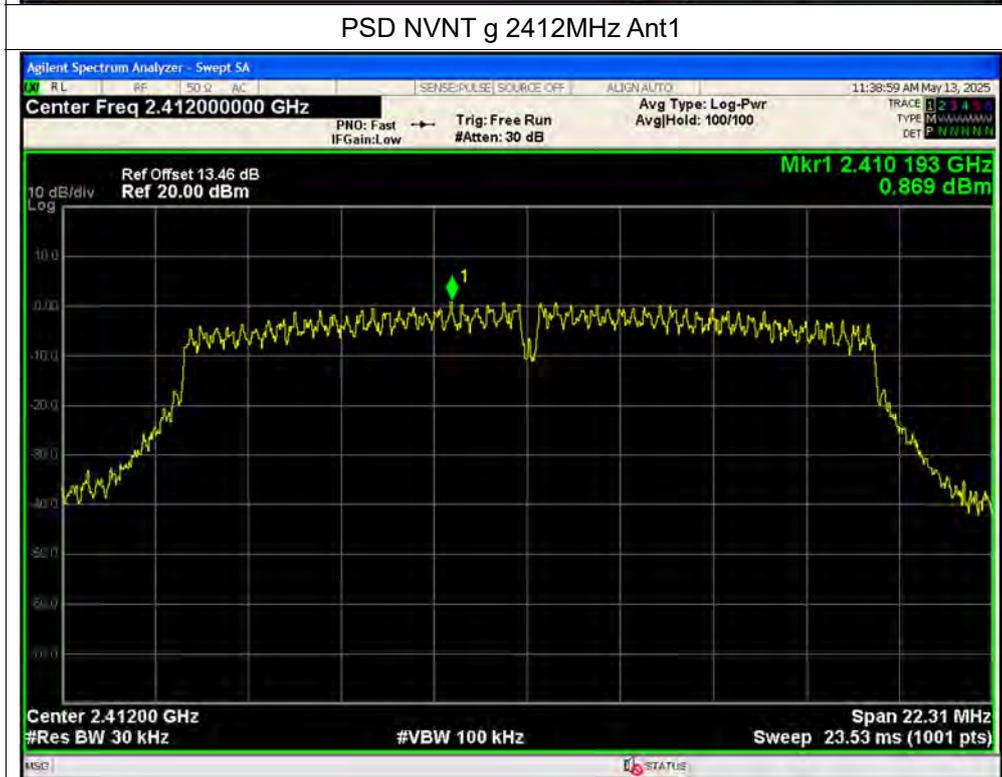
PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1

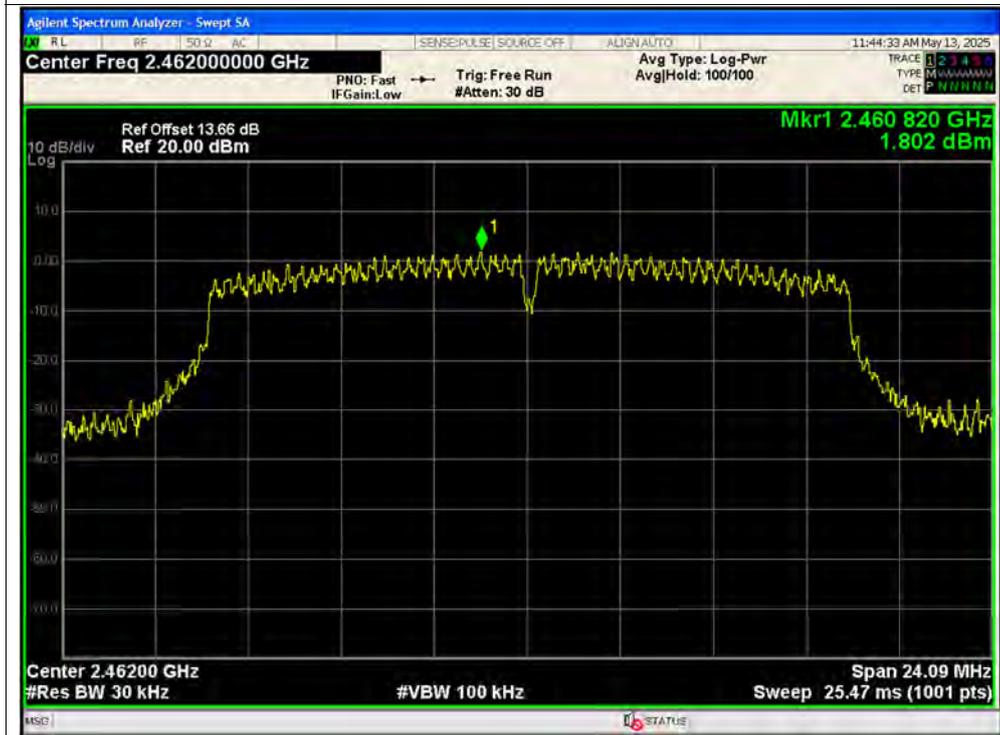




PSD NVNT g 2437MHz Ant1

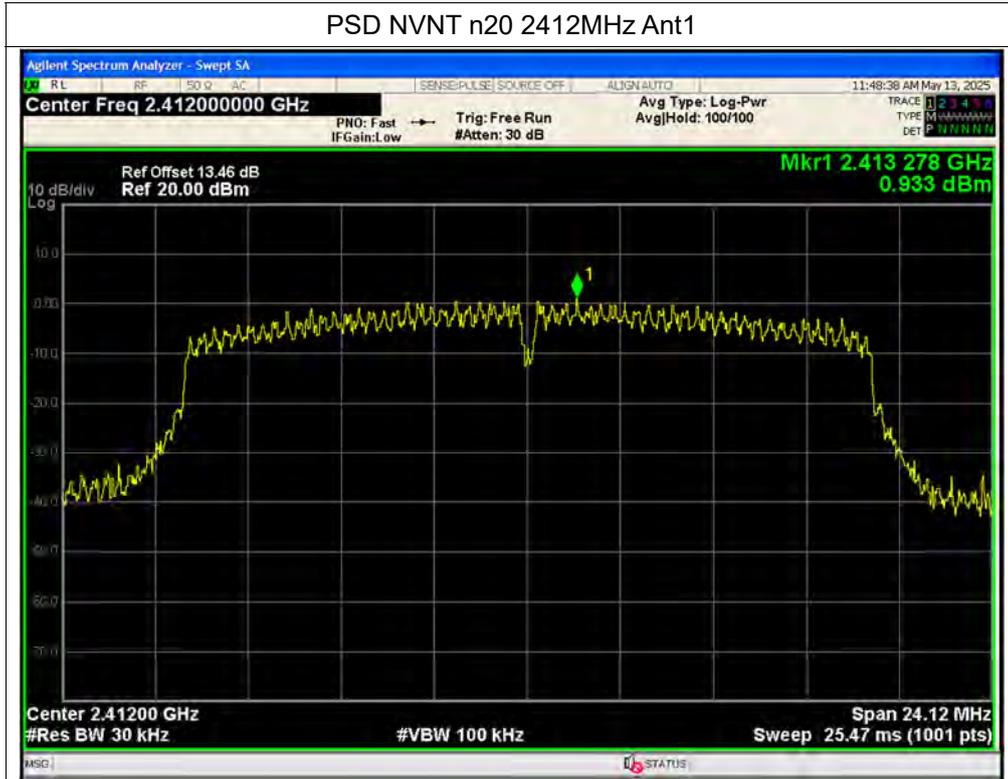


PSD NVNT g 2462MHz Ant1

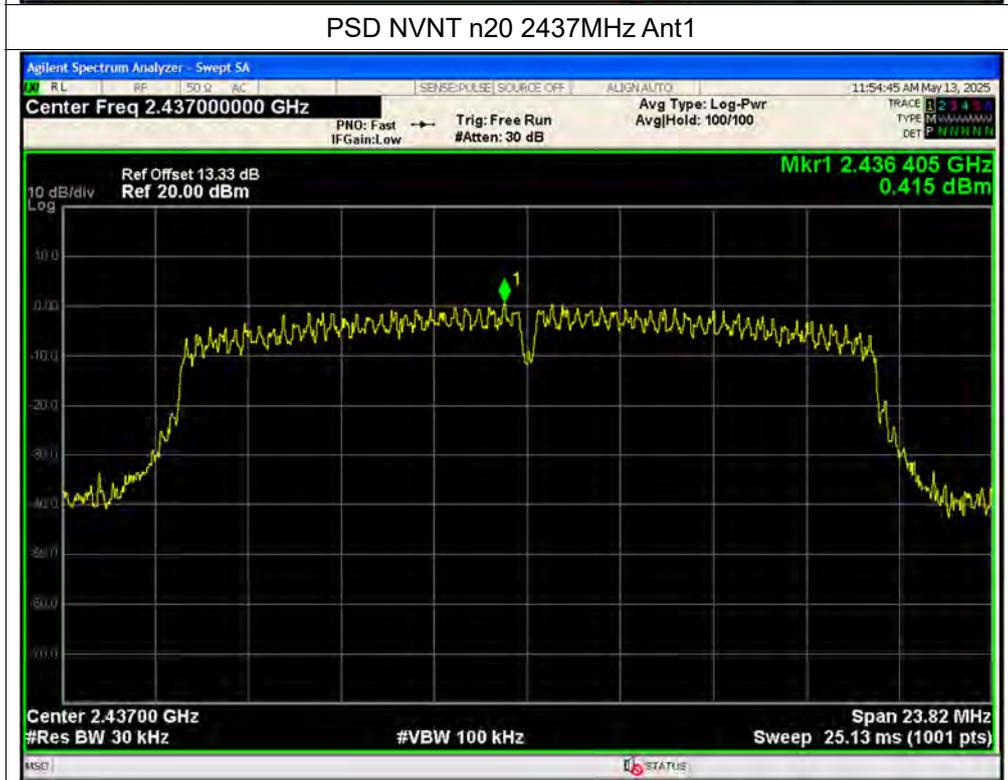


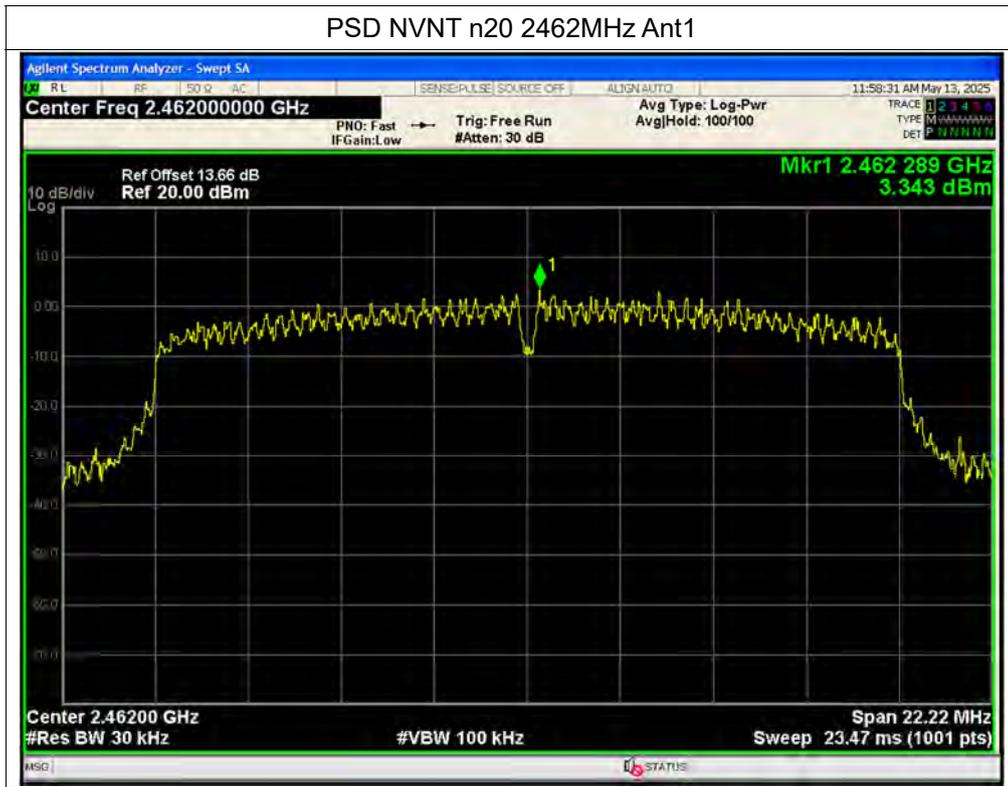


PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1







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+Data cable+battery+mobile phone + WIFI TX

Test voltage: AC 120V/60Hz

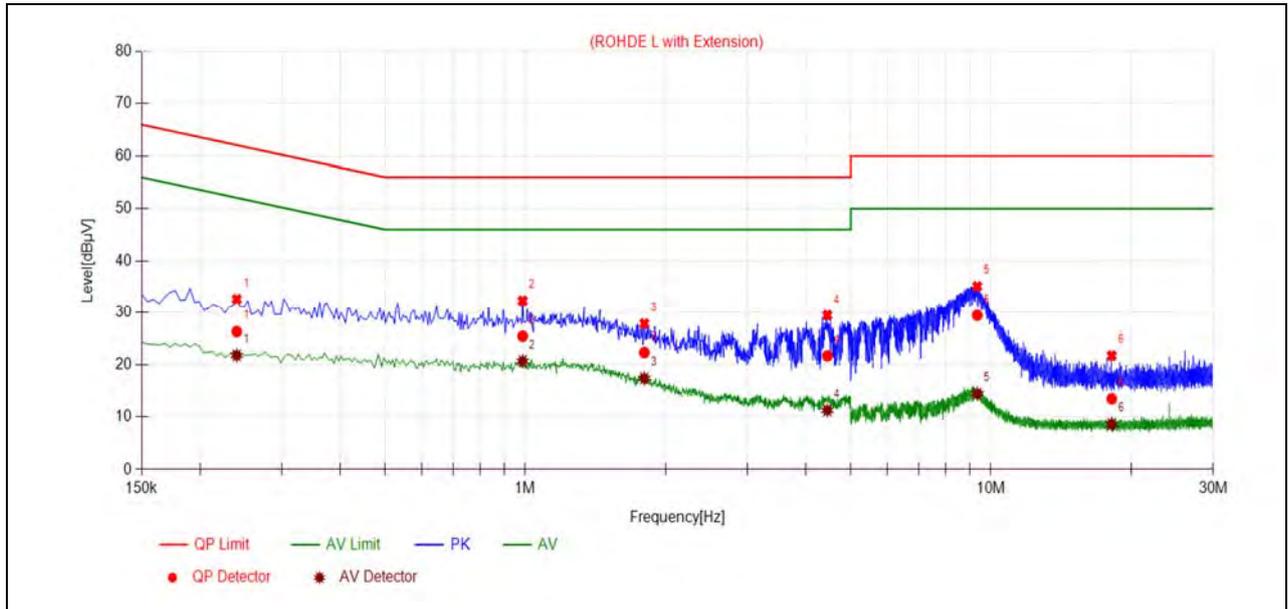
The measurement results are obtained as below:

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

U_R : Receiver Reading

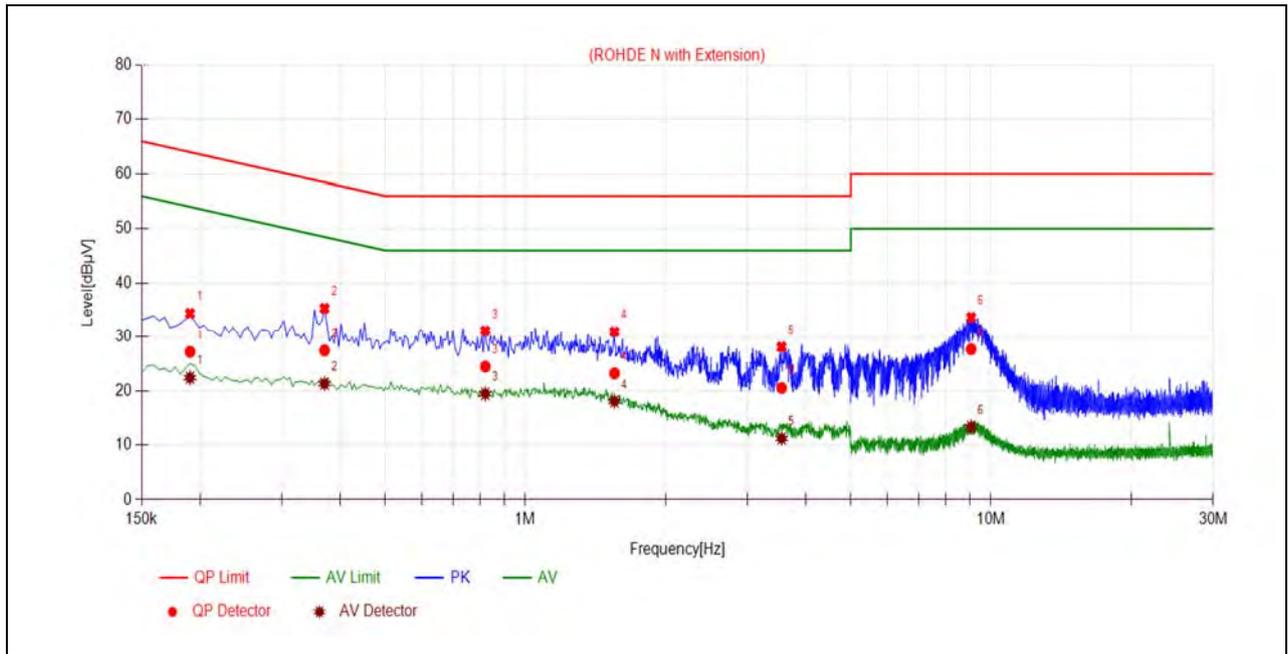
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2400	26.31	21.73	62.10	52.10	Line	PASS
2	0.9870	25.43	20.64	56.00	46.00		PASS
3	1.8013	22.28	17.34	56.00	46.00		PASS
4	4.4524	21.64	11.21	56.00	46.00		PASS
5	9.3431	29.45	14.40	60.00	50.00		PASS
6	18.1683	13.43	8.59	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	0.1905	27.21	22.41	64.01	54.01	Neutral	PASS
2	0.3705	27.46	21.29	58.49	48.49		PASS
3	0.8204	24.47	19.42	56.00	46.00		PASS
4	1.5539	23.23	18.04	56.00	46.00		PASS
5	3.5521	20.51	11.20	56.00	46.00		PASS
6	9.0648	27.68	13.33	60.00	50.00		PASS

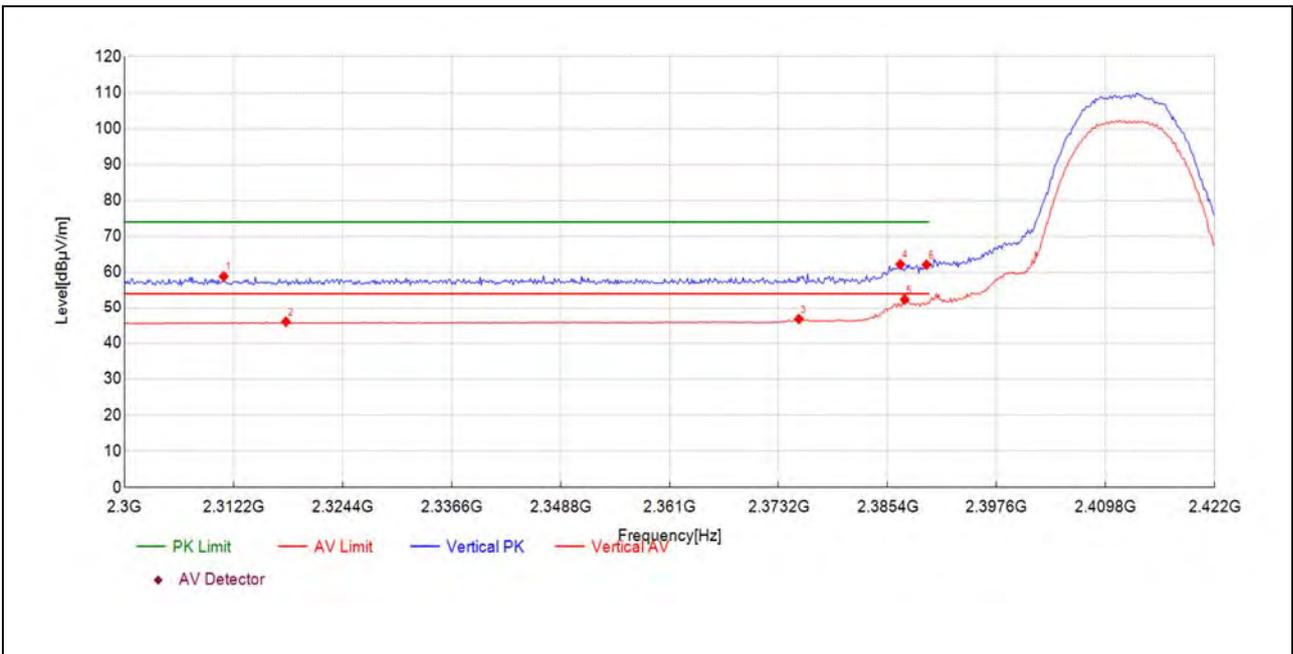
A.9. Restricted Frequency Bands

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

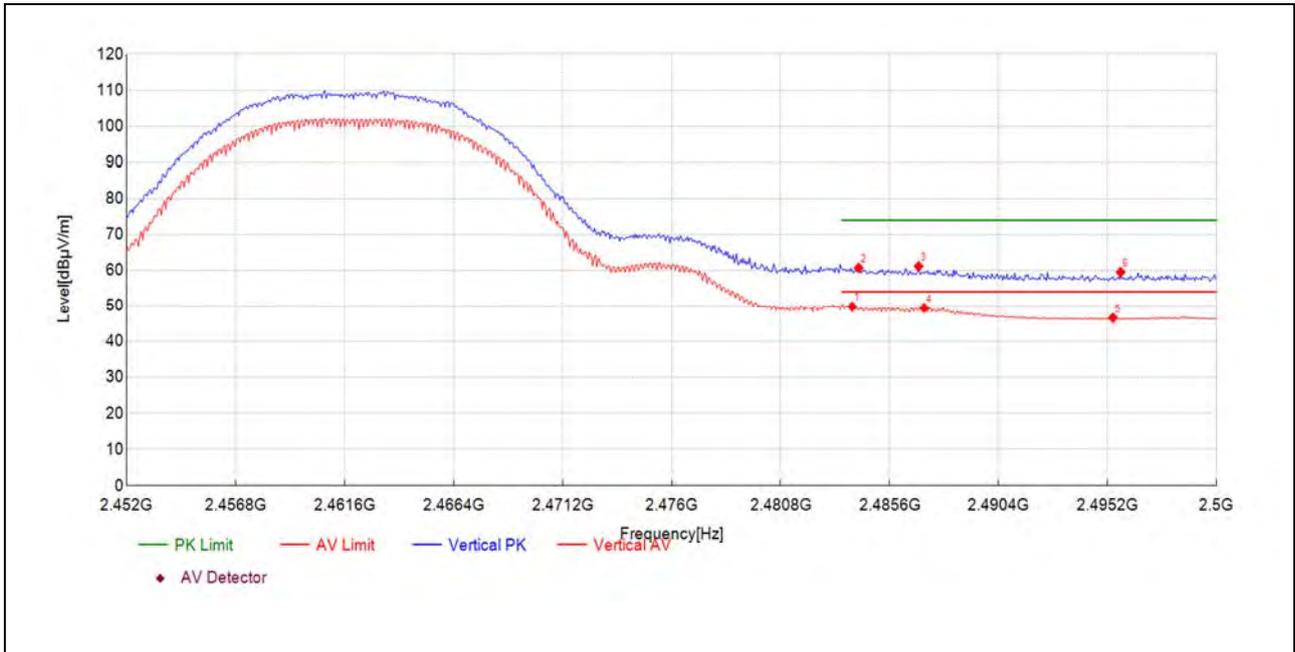
Plot for Channel 1



Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2311.11	21.7	58.85	37.110	74.00	15.15	150	11	PK	PASS
2318.07	8.8	45.97	37.170	54.00	8.03	150	195	AV	PASS
2375.47	9.2	46.70	37.480	54.00	7.30	150	204	AV	PASS
2386.83	24.7	62.23	37.490	74.00	11.77	150	199	PK	PASS
2387.32	15.0	52.46	37.490	54.00	1.54	150	195	AV	PASS
2389.76	24.6	62.10	37.490	74.00	11.90	150	190	PK	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
2483.95	11.5	49.81	38.270	54.00	4.19	150	207	AV	PASS
2484.24	22.5	60.72	38.270	74.00	13.28	150	203	PK	PASS
2486.88	22.9	61.19	38.270	74.00	12.81	150	194	PK	PASS
2487.12	11.2	49.43	38.270	54.00	4.57	150	203	AV	PASS
2495.44	8.3	46.58	38.260	54.00	7.42	150	61	AV	PASS
2495.77	21.3	59.53	38.260	74.00	14.47	150	181	PK	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.

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

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.

Field strength of fundamental:

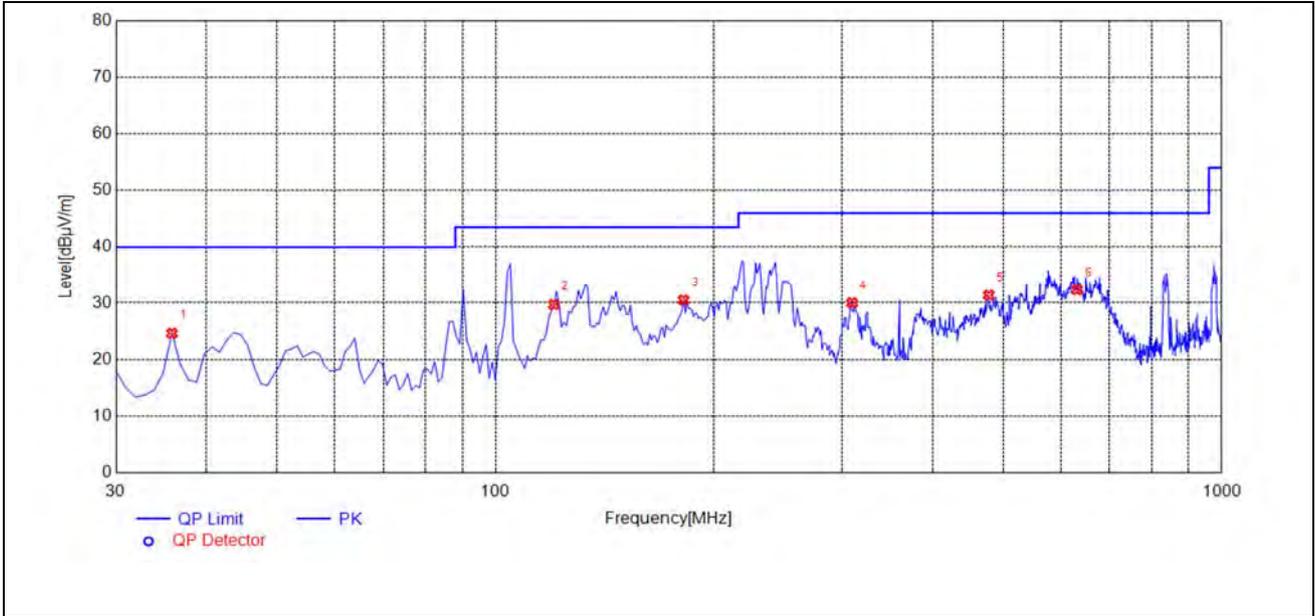
Frequency [MHz]	Reading [dB μ V]	Level [dB μ V/m]	Factor [dB/m]	Detector	Antenna Polarity
2413.45	72.0	109.76	37.720	PK	Horizontal

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).



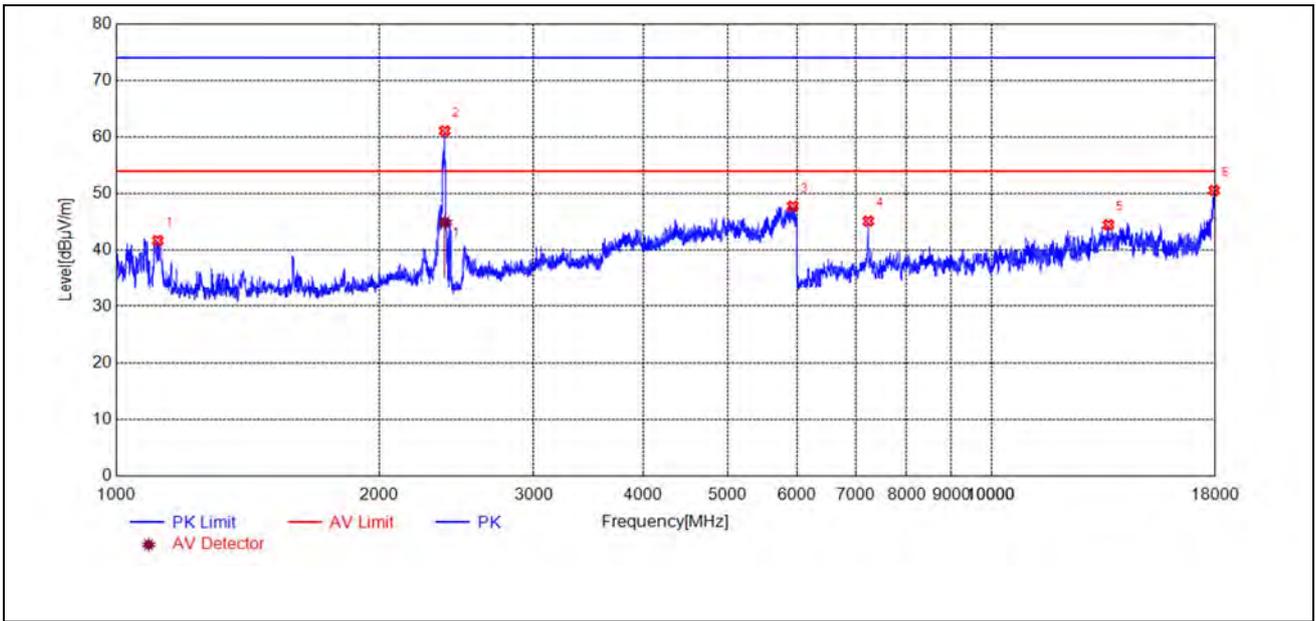
802.11b Mode

Plot for Channel 1



(Antenna Horizontal, 30MHz to 1GHz)

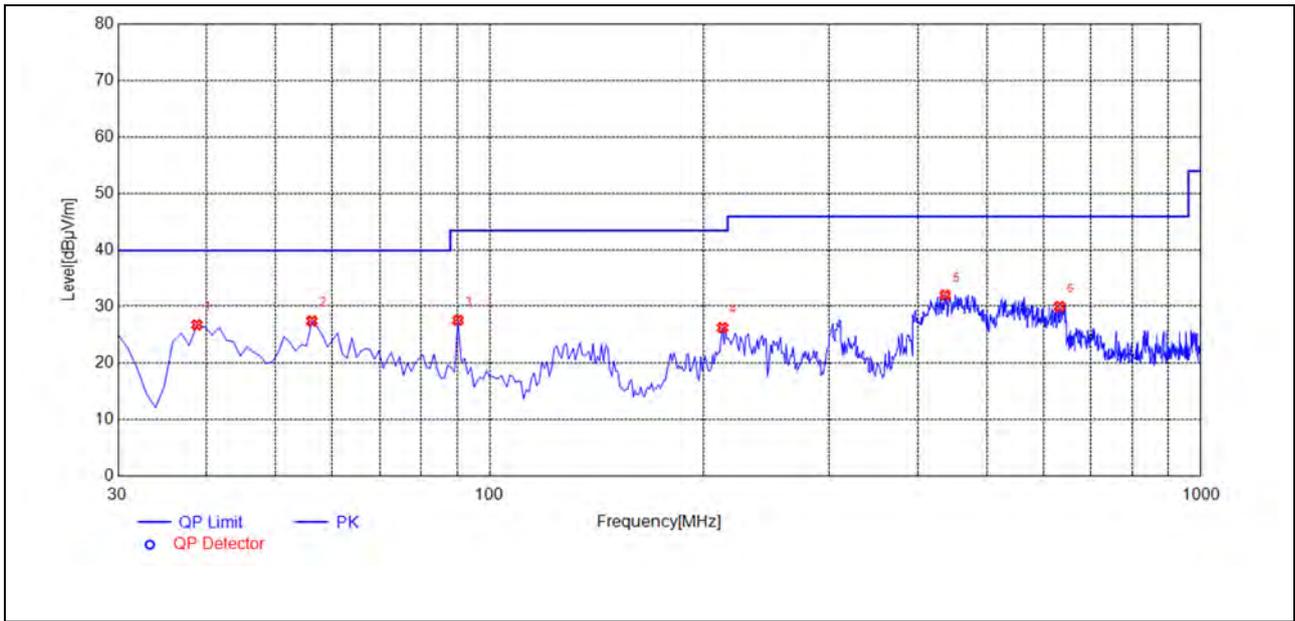
Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	24.63	-38.57	40.00	15.37	150	212	Horizontal	PASS
120.3003	29.69	-32.46	43.50	13.81	150	340	Horizontal	PASS
181.4715	30.49	-33.60	43.50	13.01	150	75	Horizontal	PASS
309.6396	30.01	-28.61	46.00	15.99	150	117	Horizontal	PASS
477.6176	31.36	-24.76	46.00	14.64	150	100	Horizontal	PASS
632.0020	32.31	-22.26	46.00	13.69	150	331	Horizontal	PASS



(Antenna Horizontal, 1GHz to 18GHz)

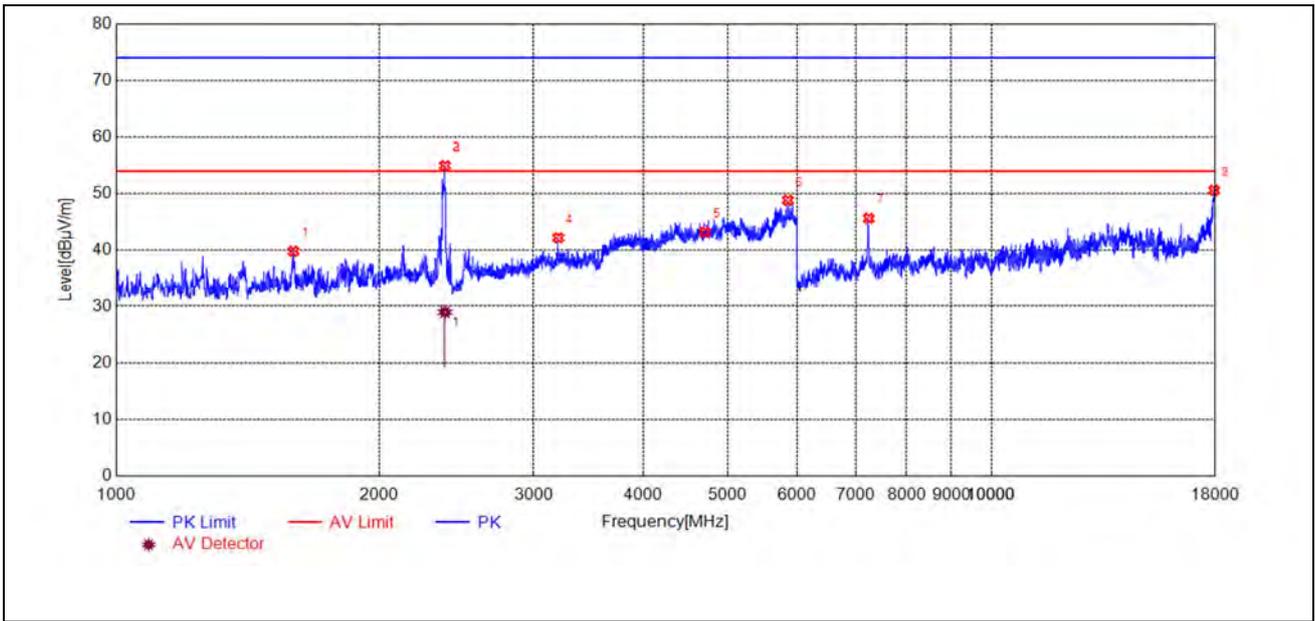
Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1116.0232	41.76	-24.46	74.00	32.24	150	112	Horizontal	PASS
2374.2749	61.12	-20.73	74.00	12.88	150	32	Horizontal	PASS
5927.9856	47.80	-6.61	74.00	26.20	150	72	Horizontal	PASS
7231.4463	45.19	-2.74	74.00	28.81	150	47	Horizontal	PASS
13599.9200	44.53	7.66	74.00	29.47	150	168	Horizontal	PASS
17956.7914	50.59	15.51	74.00	23.41	150	28	Horizontal	PASS

Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Polarity
2375.4646	-20.73	44.97	54.00	9.03	150	Horizontal



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
38.7387	26.69	-35.32	40.00	13.31	150	38	Vertical	PASS
56.2162	27.38	-29.66	40.00	12.62	150	72	Vertical	PASS
90.2002	27.49	-32.74	43.50	16.01	150	355	Vertical	PASS
212.5425	26.19	-32.02	43.50	17.31	150	72	Vertical	PASS
436.8368	31.94	-25.48	46.00	14.06	150	311	Vertical	PASS
632.9730	29.94	-21.87	46.00	16.06	150	20	Vertical	PASS

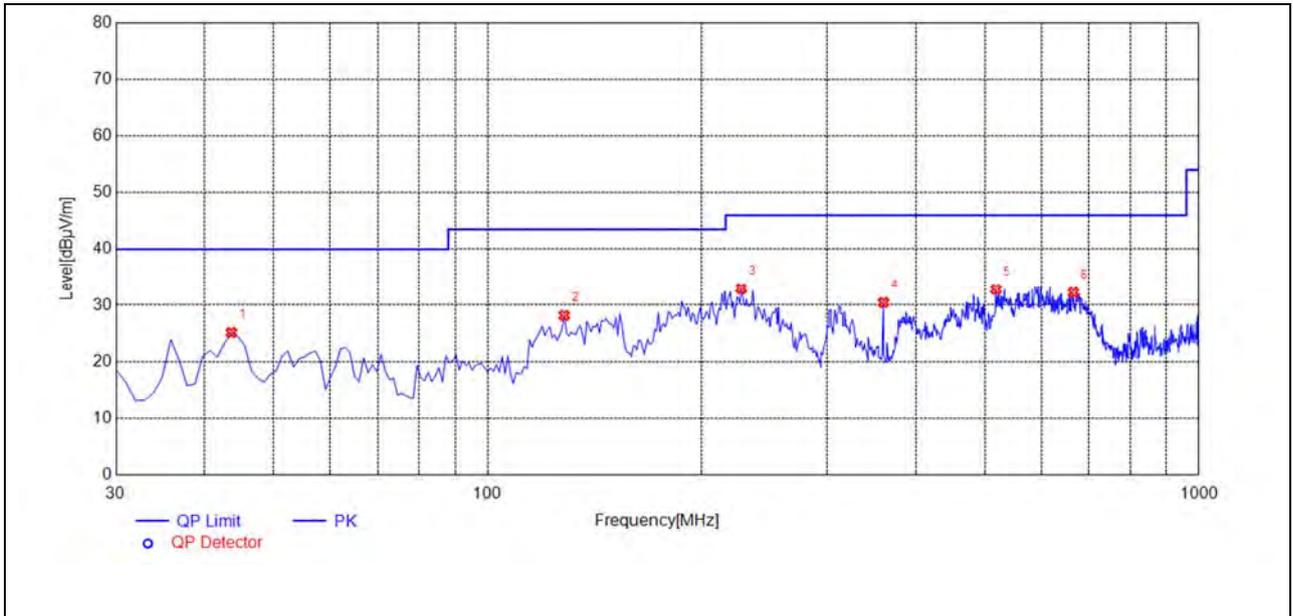


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1595.1190	39.85	-23.19	74.00	34.15	150	32	Vertical	PASS
2375.2751	54.95	-20.74	74.00	19.05	150	133	Vertical	PASS
2376.2753	54.78	-20.72	74.00	19.22	150	142	Vertical	PASS
3199.4399	42.22	-17.18	74.00	31.78	150	2	Vertical	PASS
4706.7413	43.24	-11.28	74.00	30.76	150	262	Vertical	PASS
5852.9706	48.86	-6.93	74.00	25.14	150	2	Vertical	PASS
7241.0482	45.69	-2.66	74.00	28.31	150	108	Vertical	PASS
17959.1918	50.62	15.39	74.00	23.38	150	87	Vertical	PASS

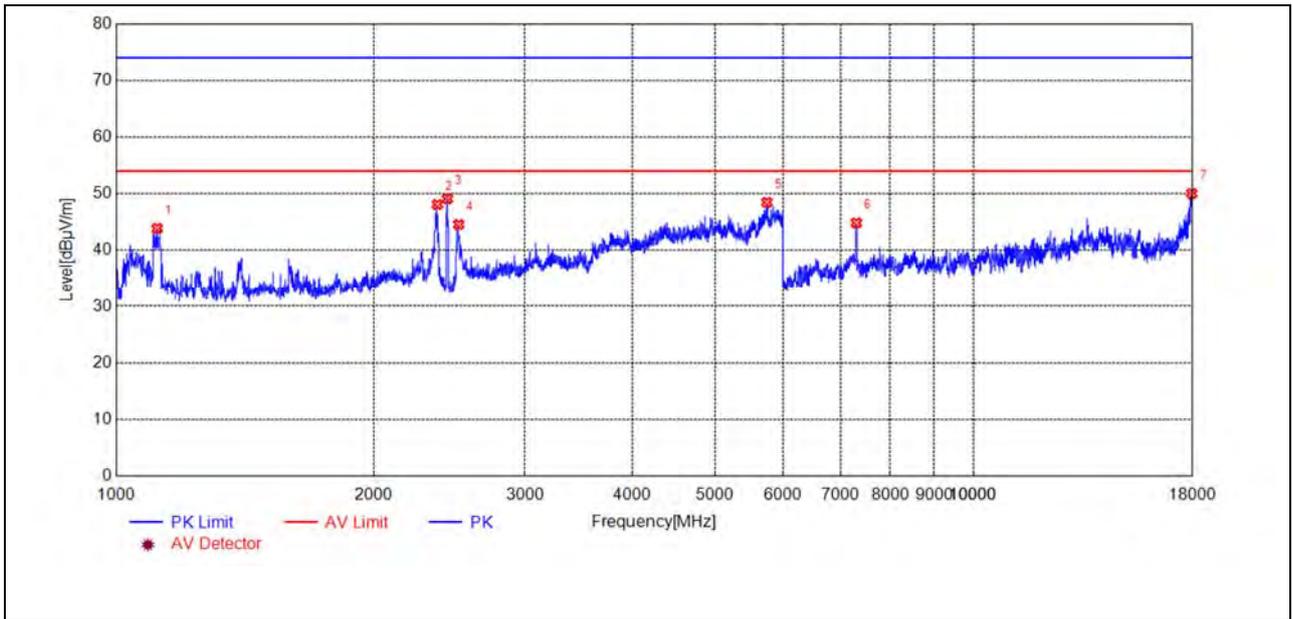
Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
2375.626	-20.72	28.93	54.00	25.07	150	142	Vertical

Plot for Channel 6



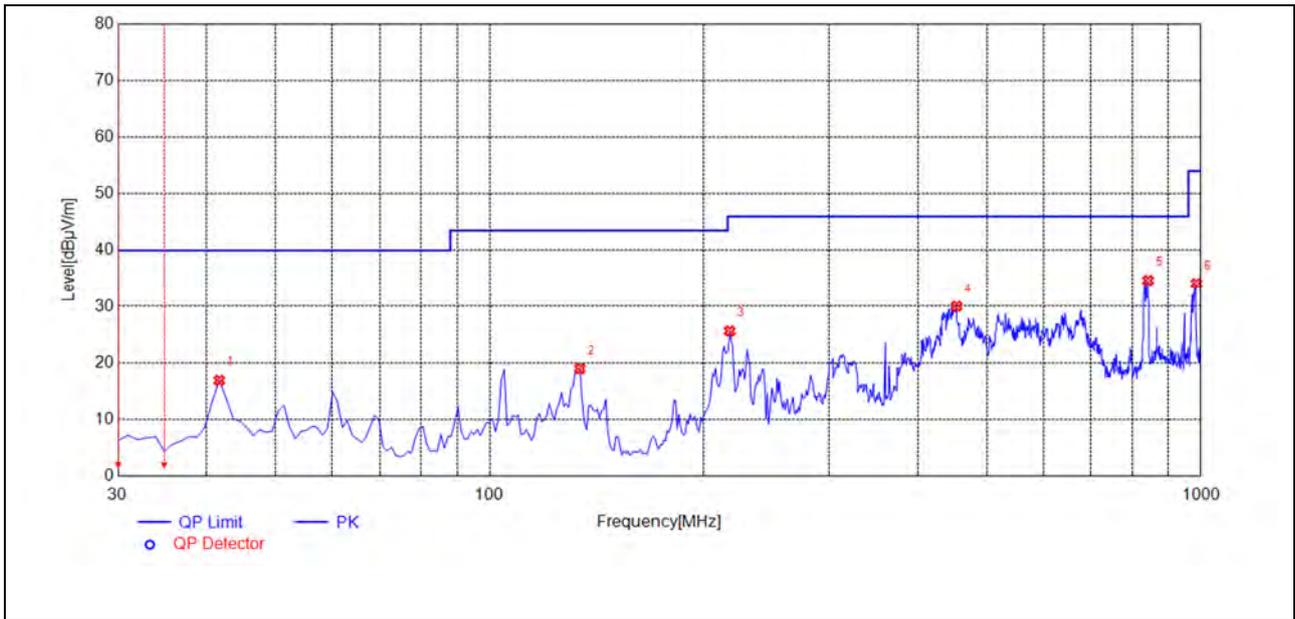
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
43.5936	25.12	-30.09	40.00	14.88	150	191	Horizontal	PASS
128.0681	28.17	-32.12	43.50	15.33	150	319	Horizontal	PASS
227.1071	32.93	-31.52	46.00	13.07	150	46	Horizontal	PASS
360.1301	30.45	-26.44	46.00	15.55	150	285	Horizontal	PASS
518.3984	32.82	-24.40	46.00	13.18	150	105	Horizontal	PASS
665.9860	32.22	-21.81	46.00	13.78	150	344	Horizontal	PASS



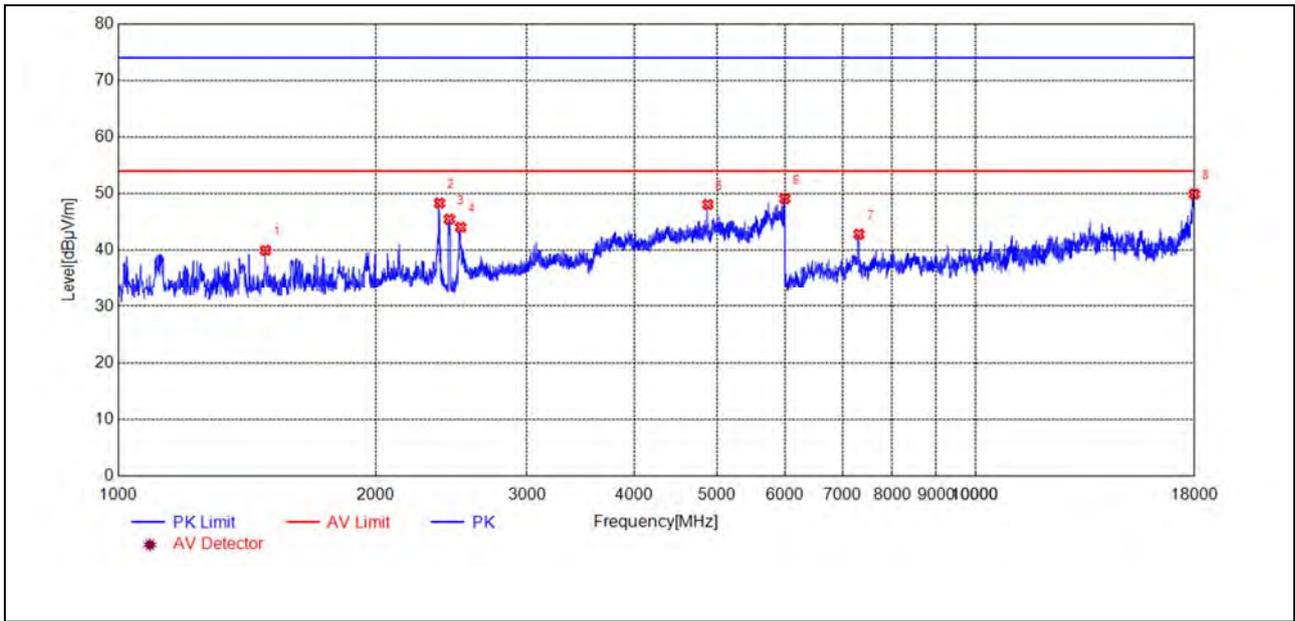
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1117.0234	43.90	-24.45	74.00	30.10	150	128	Horizontal	PASS
2370.2741	48.11	-20.87	74.00	25.89	150	18	Horizontal	PASS
2435.2871	49.13	-20.82	74.00	24.87	150	88	Horizontal	PASS
2510.3021	44.58	-19.61	74.00	29.42	150	108	Horizontal	PASS
5742.9486	48.48	-6.84	74.00	25.52	150	308	Horizontal	PASS
7301.0602	44.85	-3.42	74.00	29.15	150	42	Horizontal	PASS
17971.1942	50.06	14.81	74.00	23.94	150	0	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

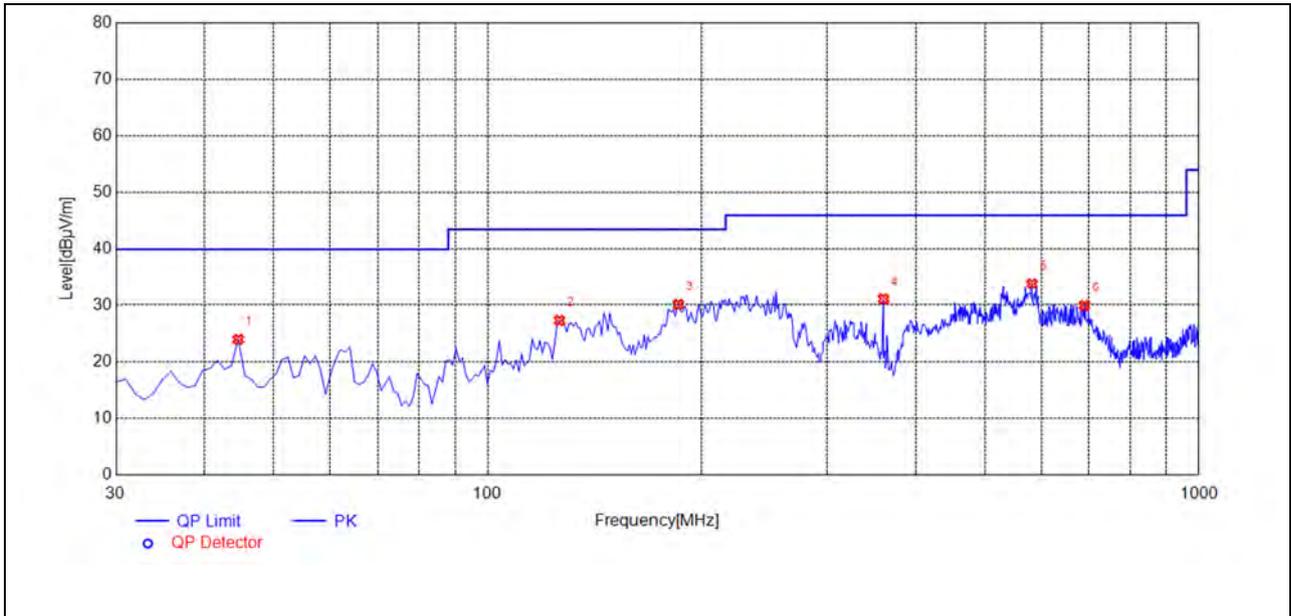
Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
41.6517	16.90	-29.40	40.00	23.10	150	67	Vertical	PASS
133.8939	18.96	-34.86	43.50	24.54	150	76	Vertical	PASS
217.3974	25.61	-31.85	46.00	20.39	150	229	Vertical	PASS
453.3433	30.01	-25.39	46.00	15.99	150	306	Vertical	PASS
842.7027	34.67	-19.87	46.00	11.33	150	94	Vertical	PASS
985.4354	34.11	-18.44	54.00	19.89	150	110	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

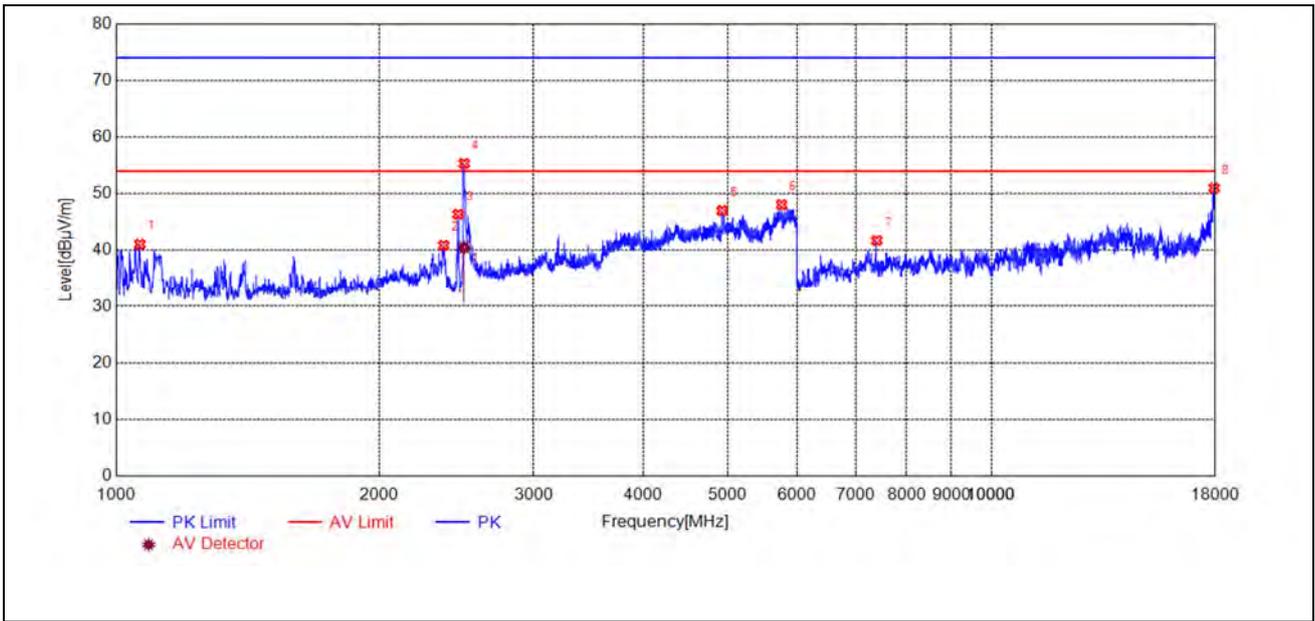
Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1486.0972	40.02	-23.20	74.00	33.98	150	198	Vertical	PASS
2371.2743	48.36	-20.84	74.00	25.64	150	18	Vertical	PASS
2435.2871	45.51	-20.82	74.00	28.49	150	18	Vertical	PASS
2510.3021	44.09	-19.61	74.00	29.91	150	18	Vertical	PASS
4873.7748	48.11	-10.82	74.00	25.89	150	138	Vertical	PASS
5991.9984	49.13	-7.27	74.00	24.87	150	268	Vertical	PASS
7313.0626	42.86	-3.45	74.00	31.14	150	152	Vertical	PASS
17997.5995	49.96	13.53	74.00	24.04	150	322	Vertical	PASS

Plot for Channel 11



(Antenna Horizontal, 30MHz to 1GHz)

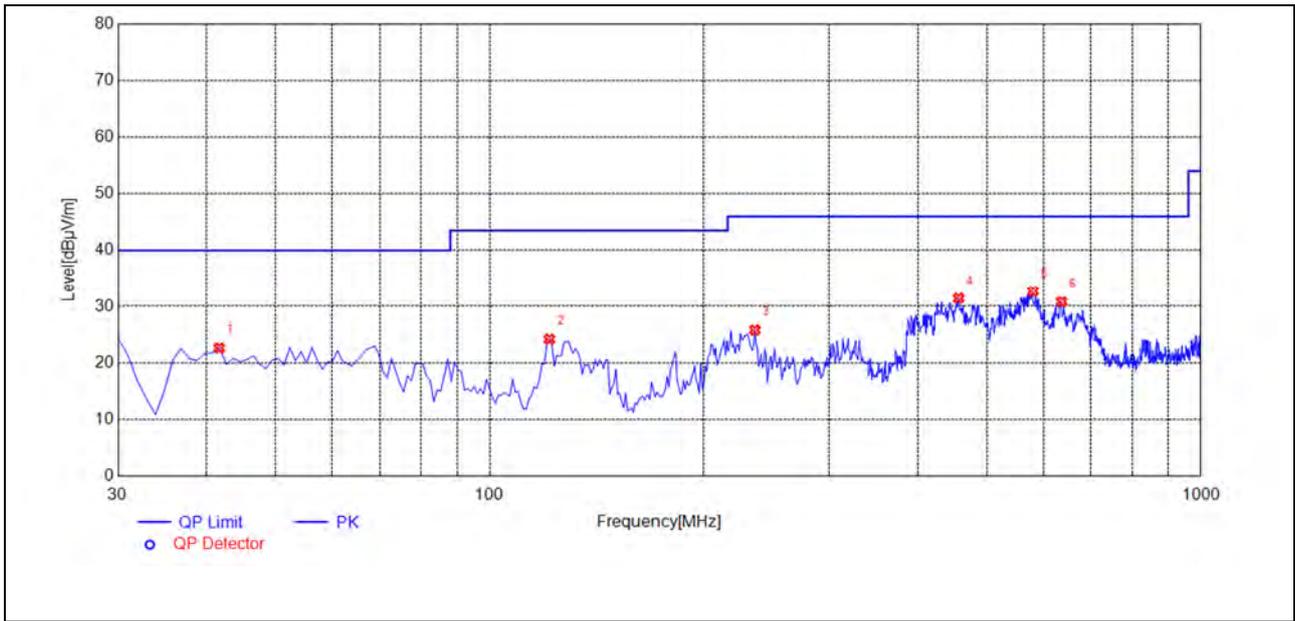
Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
44.5646	23.91	-30.36	40.00	16.09	150	186	Horizontal	PASS
126.1261	27.25	-32.79	43.50	16.25	150	340	Horizontal	PASS
185.3554	30.10	-32.56	43.50	13.40	150	92	Horizontal	PASS
360.1301	31.07	-26.44	46.00	14.93	150	263	Horizontal	PASS
582.4825	33.85	-22.17	46.00	12.15	150	0	Horizontal	PASS
690.2603	29.92	-21.81	46.00	16.08	150	340	Horizontal	PASS



(Antenna Horizontal, 1GHz to 18GHz)

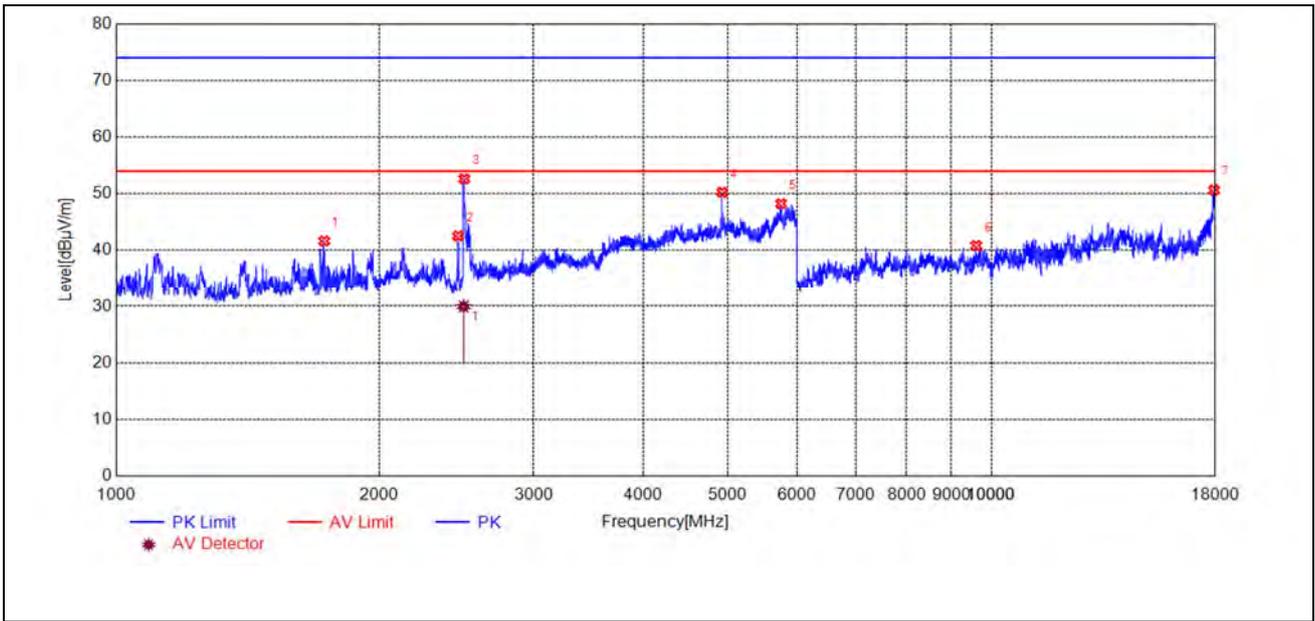
Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1065.0130	41.08	-24.56	74.00	32.92	150	296	Horizontal	PASS
2367.2735	40.90	-20.94	74.00	33.10	150	0	Horizontal	PASS
2459.2919	46.39	-20.81	74.00	27.61	150	26	Horizontal	PASS
2498.2997	55.34	-19.56	74.00	18.66	150	36	Horizontal	PASS
4923.7848	47.03	-10.62	74.00	26.97	150	342	Horizontal	PASS
5756.9514	48.06	-6.95	74.00	25.94	150	296	Horizontal	PASS
7394.6789	41.75	-3.79	74.00	32.25	150	38	Horizontal	PASS
17956.7914	50.98	15.51	74.00	23.02	150	198	Horizontal	PASS

Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
2498.876	-19.54	40.51	54.00	13.49	150	23	Horizontal



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
41.6517	22.62	-29.40	40.00	17.38	150	88	Vertical	PASS
121.2713	24.17	-33.43	43.50	19.33	150	344	Vertical	PASS
235.8458	25.79	-30.83	46.00	20.21	150	208	Vertical	PASS
456.2563	31.44	-25.36	46.00	14.56	150	301	Vertical	PASS
580.5405	32.66	-22.62	46.00	13.34	150	352	Vertical	PASS
636.8569	30.78	-21.76	46.00	15.22	150	20	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1729.1458	41.67	-23.64	74.00	32.33	150	118	Vertical	PASS
2458.2917	42.57	-20.84	74.00	31.43	150	179	Vertical	PASS
2499.2999	52.64	-19.53	74.00	21.36	150	168	Vertical	PASS
4923.7848	50.26	-10.62	74.00	23.74	150	138	Vertical	PASS
5749.9500	48.26	-6.73	74.00	25.74	150	338	Vertical	PASS
9605.5211	40.87	1.03	74.00	33.13	150	52	Vertical	PASS
17951.9904	50.67	15.74	74.00	23.33	150	23	Vertical	PASS

Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
2495.166	-19.67	29.93	54.00	24.07	150	182	Vertical

————— END OF REPORT —————