



REPORT No.: SZ25020294W04

TEST REPORT

APPLICANT : Realme Chongqing Mobile
Telecommunications Corp., Ltd.

PRODUCT NAME : Mobile Phone

MODEL NAME : RMX5303

BRAND NAME : realme

FCC ID : 2AUYFRMX5303

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2025-03-12

TEST DATE : 2025-03-14 to 2025-04-24

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REPORT No.: SZ25020294W04

Change History		
Version	Date	Reason for change
1.0	2025-04-24	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	Mar. 27, 2025	Lin Haoyang	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Mar. 27, 2025	Lin Haoyang	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Mar. 27, 2025	Lin Haoyang	PASS	No deviation
5	15.247(a)	Bandwidth	Mar. 27, 2025	Lin Haoyang	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Mar. 27, 2025	Lin Haoyang	PASS	No deviation
7	15.247(e)	Power Spectral Density	Mar. 27, 2025	Lin Haoyang	PASS	No deviation
8	15.207	Conducted Emission	Mar. 18, 2025	Fan Shengquan	PASS	No deviation
9	15.247(d)	Restricted Frequency Bands	Apr. 06, 2025	Gao Jianrou	PASS	No deviation
10	15.209, 15.247(d)	Radiated Emission	Apr. 06, 2025	Gao Jianrou	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	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	2022.05.10	2025.05.09



1.3. Measurement Uncertainty

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

1.4. Testing Laboratory

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



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Applicant Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Manufacturer:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Manufacturer Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.2. Information of EUT

Product Name:	Mobile Phone	
Sample No.:	1#, 4#, 18#	
Hardware Version:	11	
Software Version:	Android 15	
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:	Inverted F Antenna	
Antenna Gain:	0.40dBi	
Accessory Information:	Battery	
	Brand Name:	SUPERVOOC
	Model No.:	BLPC71
	Serial No.:	N/A
	Capacity:	Typical: 6000mAh, Rated: 5830mAh
	Rated Voltage:	3.88V
	Charge Limit:	4.48V
	Manufacturer:	Sunwoda Electronic Co., Ltd.
	AC Adaptor 1	
	Brand Name:	SUPERVOOC
	Model No.:	VCB4JAUH
	Serial No.:	N/A
	Rated Output:	5V=2A 10W or 5-11V=4.1A(MAX) 45W(MAX)



	Rated Input:	100-240V~50/60Hz, 1.5A
	Manufacturer:	Huizhou Golden Lake Industrial Co., Ltd.
	AC Adapter 2	
	Brand Name:	SUPERVOOC
	Model No.:	VCB4HAUH
	Serial No.:	N/A
	Rated Output:	5V=2A 10W or 5-11V=4.1A(MAX) 45W(MAX)
	Rated Input:	100-240V~50/60Hz, 1.5A
	Manufacturer:	Huizhou Golden Lake Industrial Co., Ltd.
	AC Adapter 3	
	Brand Name:	SUPERVOOC
	Model No.:	VCB4JAUH
	Serial No.:	N/A
	Rated Output:	5V=2A 10W or 5-11V=4.1A(MAX) 45W(MAX)
	Rated Input:	100-240V~50/60Hz, 1.5A
	Manufacturer:	Jiangsu Chenyang Electron Co.,Ltd.
	AC Adapter 4	
	Brand Name:	SUPERVOOC
	Model No.:	VCB4HAUH
	Serial No.:	N/A
	Rated Output:	5V=2A 10W or 5-11V=4.1A(MAX) 45W(MAX)
	Rated Input:	100-240V~50/60Hz, 1.5A
	Manufacturer:	Shenzhen Huntkey Electric Co., Ltd.
	USB Cable 1	
	Model No.:	DL129
	USB Cable 2	
	Model No.:	DL154

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		
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.

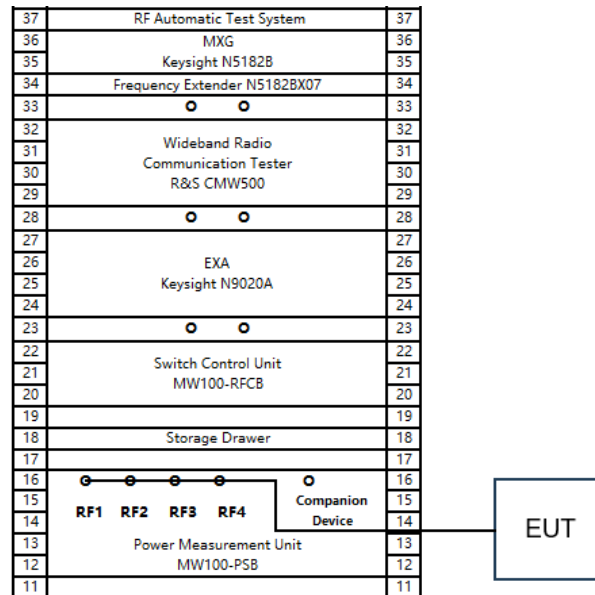
Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

2.5. Test Conditions

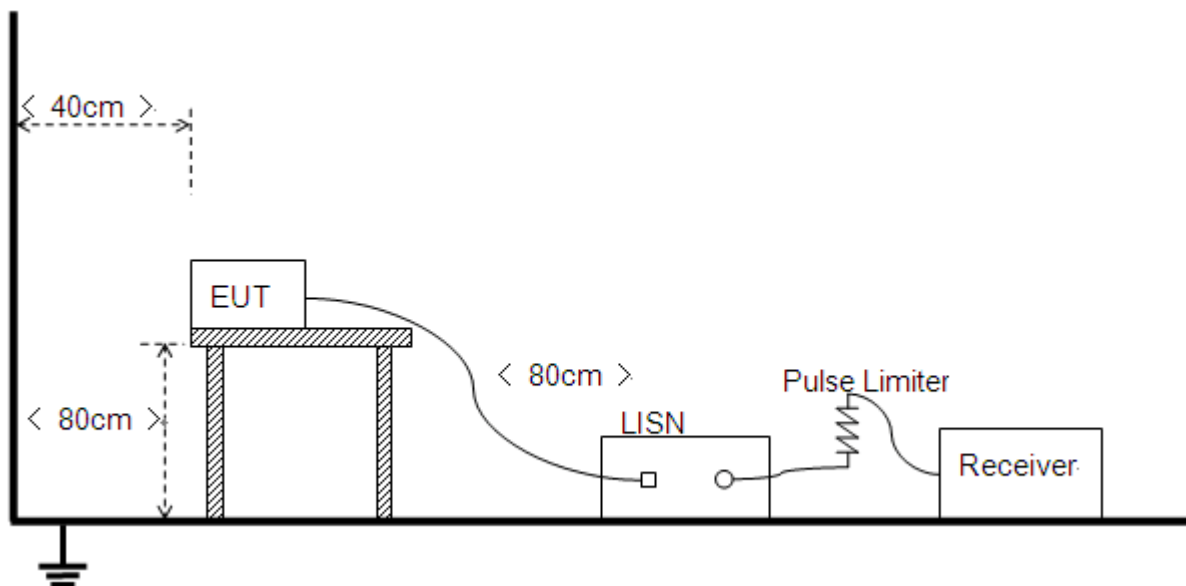
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

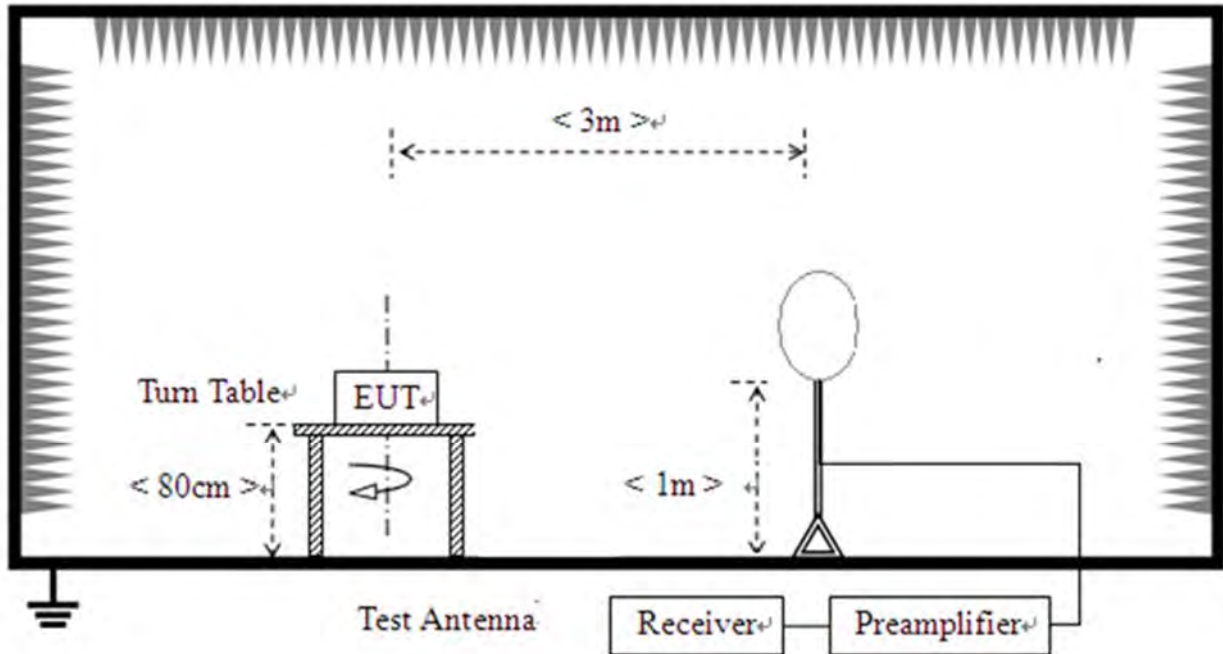


2.6.2. Conducted Emission Measurement

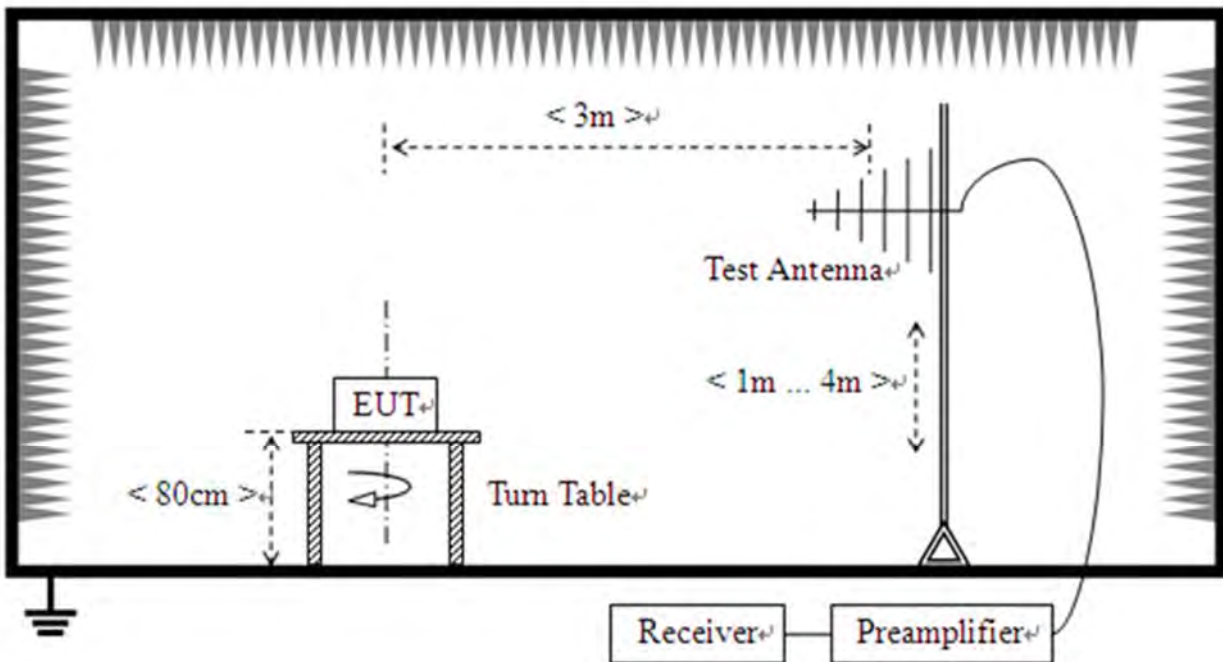


2.6.3.Radiation Measurement

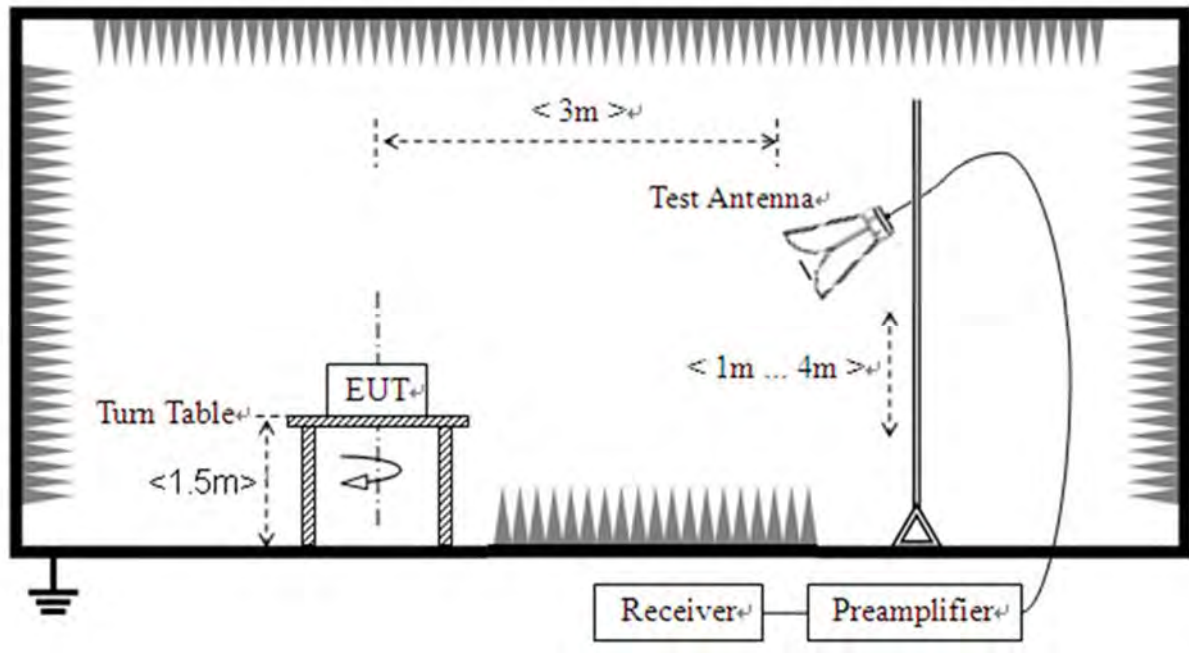
1) For radiated emissions from 9kHz to 30MHz



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 ☒ Inverted F Antenna	☐ I-PEX Connector ☐ SMA Connector ☐ RP-SMA Connector ☒ Metal Shrapnel ☐ Layout



3.2. Duty Cycle of Test Signal

3.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration(T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be non constant.

3.2.2. Test Result

Refer to Annex A.1 in this report.



3.3. Maximum Peak and Average Conducted Output Power

3.3.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum conducted output power of the intentional radiator shall not exceed 1 Watt.

3.3.2. Test Procedures

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

3.3.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4. Test Result

Refer to Annex A.2 and A.3 in this report.



3.4.6 dB Bandwidth

3.4.1.Requirement

According to FCC section 15.247(a) (2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

3.4.1.Test Procedures

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

3.4.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.3.Test Result

Refer to Annex A.4 in this report.



3.5. Conducted Spurious Emissions and Band Edge

3.5.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

3.5.2. Test Procedures

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

3.5.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.4. Test Result

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

3.6. Power Spectral Density

3.6.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

3.6.2. Test Procedures

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

- a) Set analyzer center frequency to channel center frequency
- b) Set span to 1.5 times DTS
- c) Set RBW to 30kHz
- d) Set VBW to 100kHz
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level and recorded as PD
- j) Use below formula to calculate the Conducted PSD value that at specified RBW:

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

3.6.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.6.4. Test Result

Refer to Annex A.7 in this report.

3.7. Conducted Emission

3.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.7.2. Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

3.7.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.7.4. Test Result

Refer to Annex A.8 in this report.

3.8. Restricted Frequency Bands

3.8.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

3.8.2. Test Procedures

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

3.8.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.8.4. Test Result

Refer to Annex A.9 in this report.

3.9. Radiated Emission

3.9.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).



3.9.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 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.



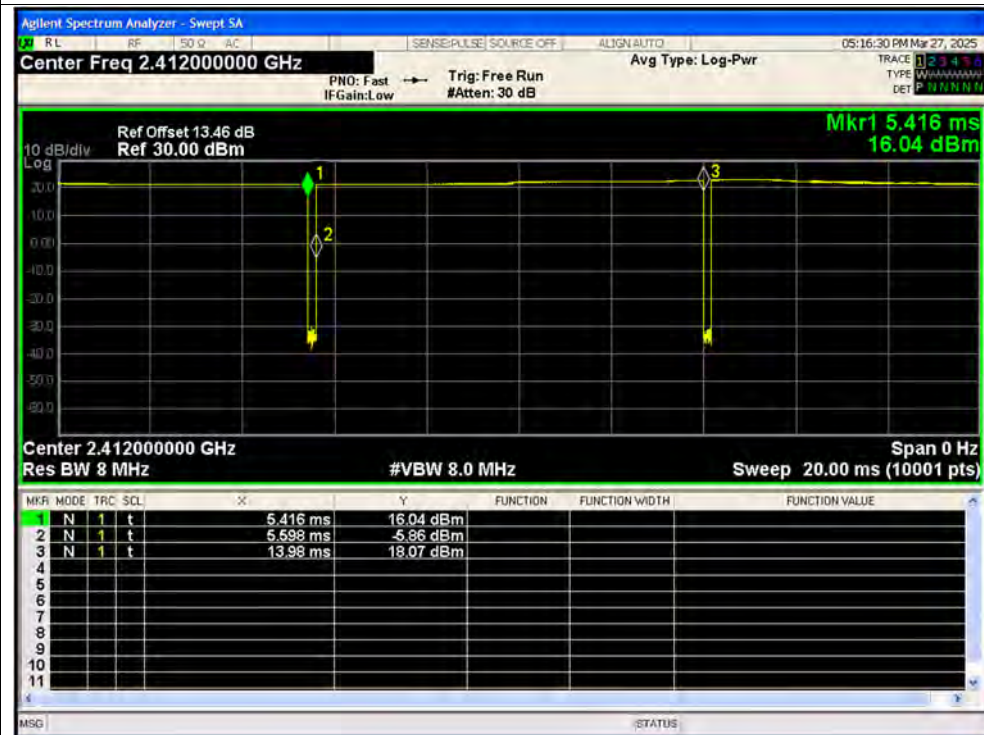
Annex A Test Data and Result

A.1. Duty Cycle of Test Signal

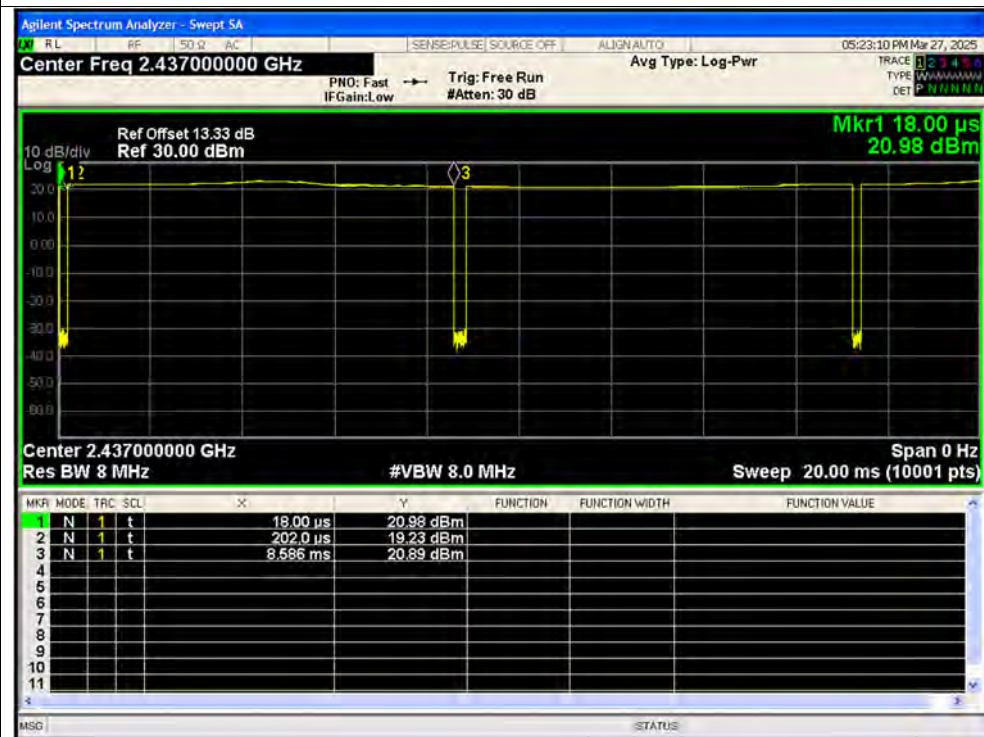
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	97.88	0.09	0.12
NVNT	b	2437	Ant1	97.85	0.09	0.12
NVNT	b	2462	Ant1	97.88	0.09	0.12
NVNT	g	2412	Ant1	83.37	0.79	0.72
NVNT	g	2437	Ant1	87.56	0.58	0.72
NVNT	g	2462	Ant1	88.55	0.53	0.72
NVNT	n20	2412	Ant1	87.22	0.59	0.85
NVNT	n20	2437	Ant1	86.71	0.62	0.85
NVNT	n20	2462	Ant1	87.22	0.59	0.85
NVNT	n40	2422	Ant1	74.24	1.29	1.7
NVNT	n40	2437	Ant1	74.06	1.3	1.7
NVNT	n40	2452	Ant1	74.06	1.3	1.7

Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



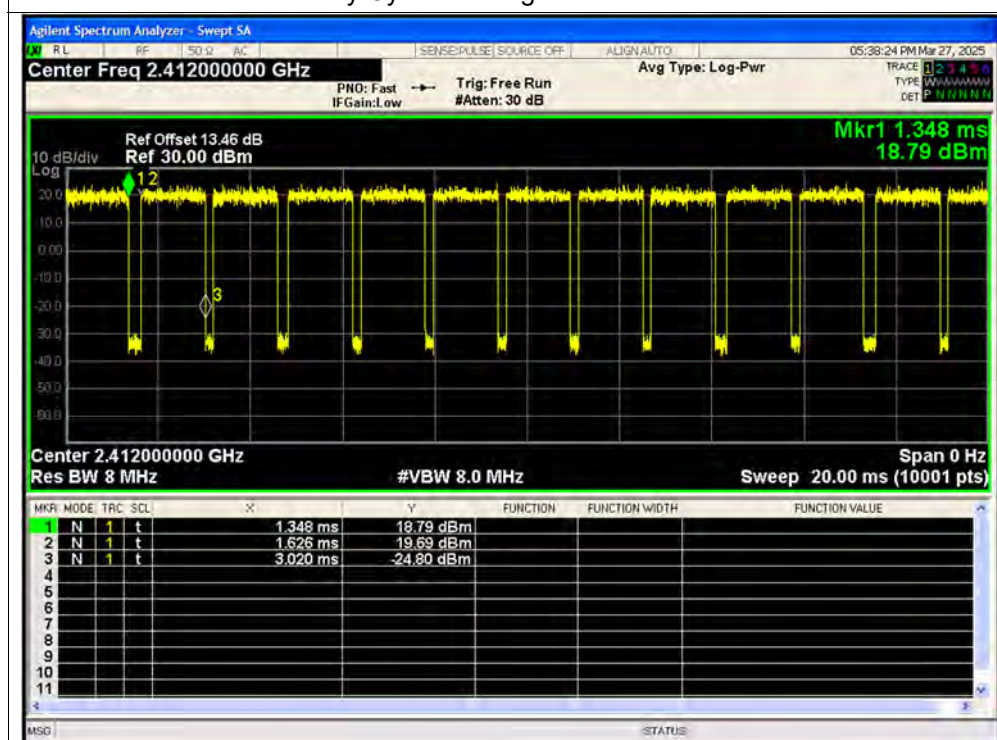
Duty Cycle NVNT b 2437MHz Ant1



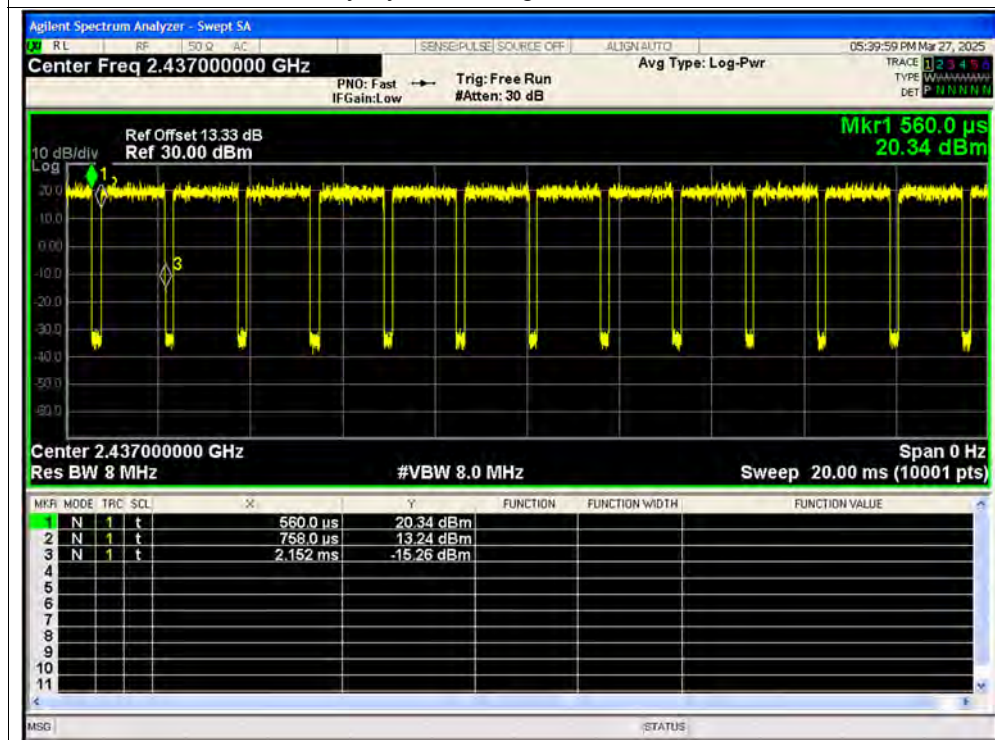
Duty Cycle NVNT b 2462MHz Ant1



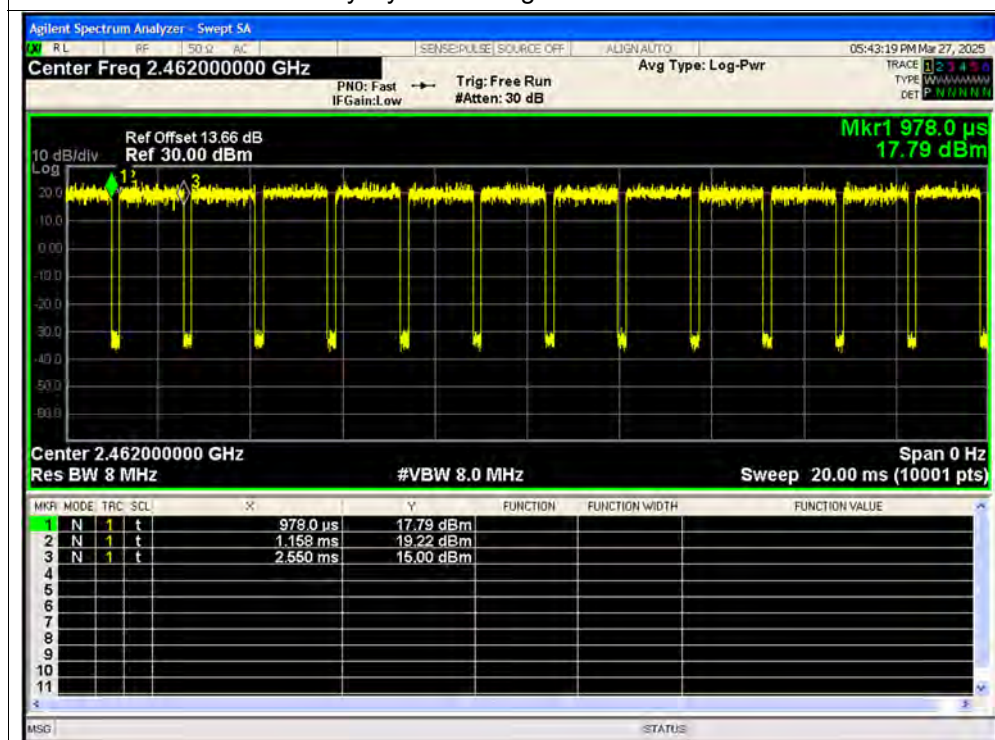
Duty Cycle NVNT g 2412MHz Ant1



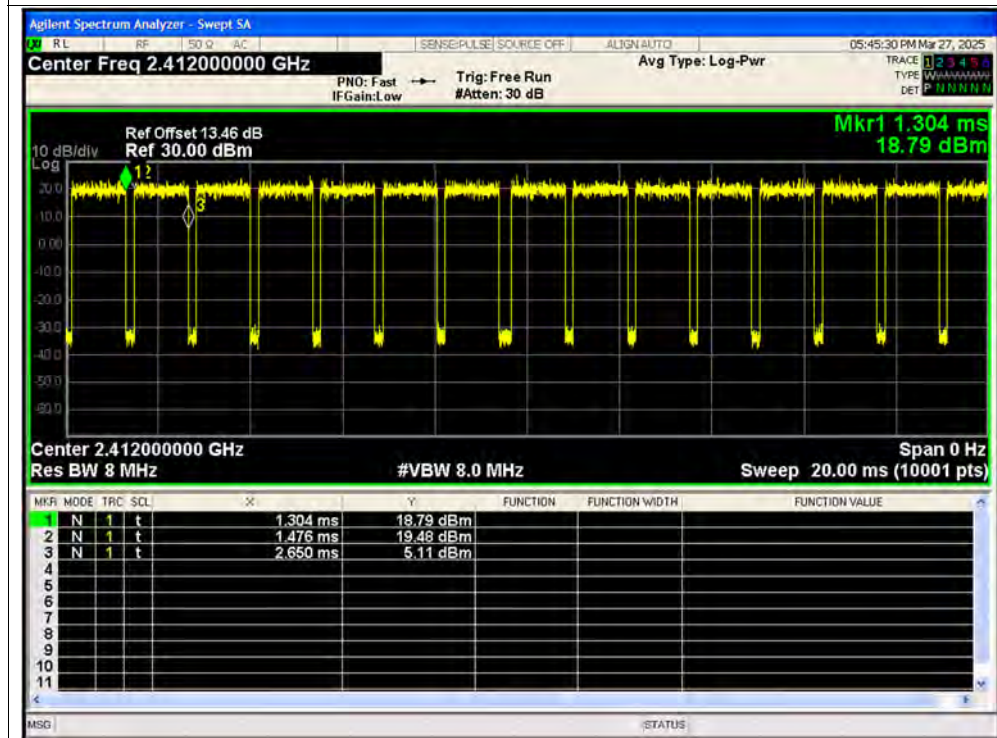
Duty Cycle NVNT g 2437MHz Ant1



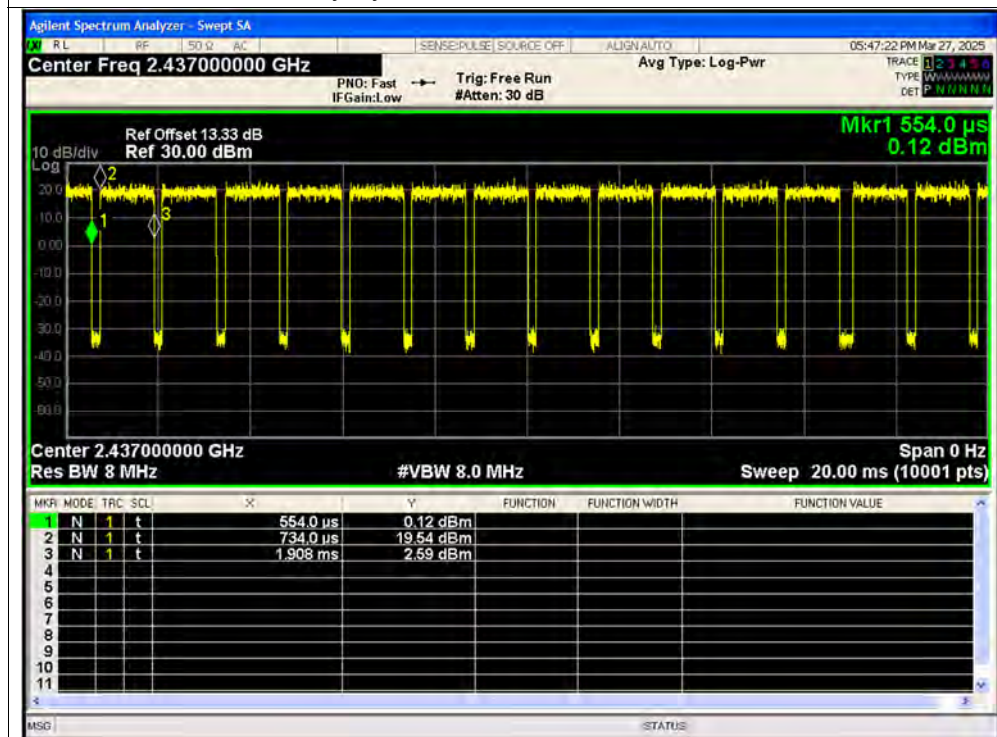
Duty Cycle NVNT g 2462MHz Ant1



Duty Cycle NVNT n20 2412MHz Ant1

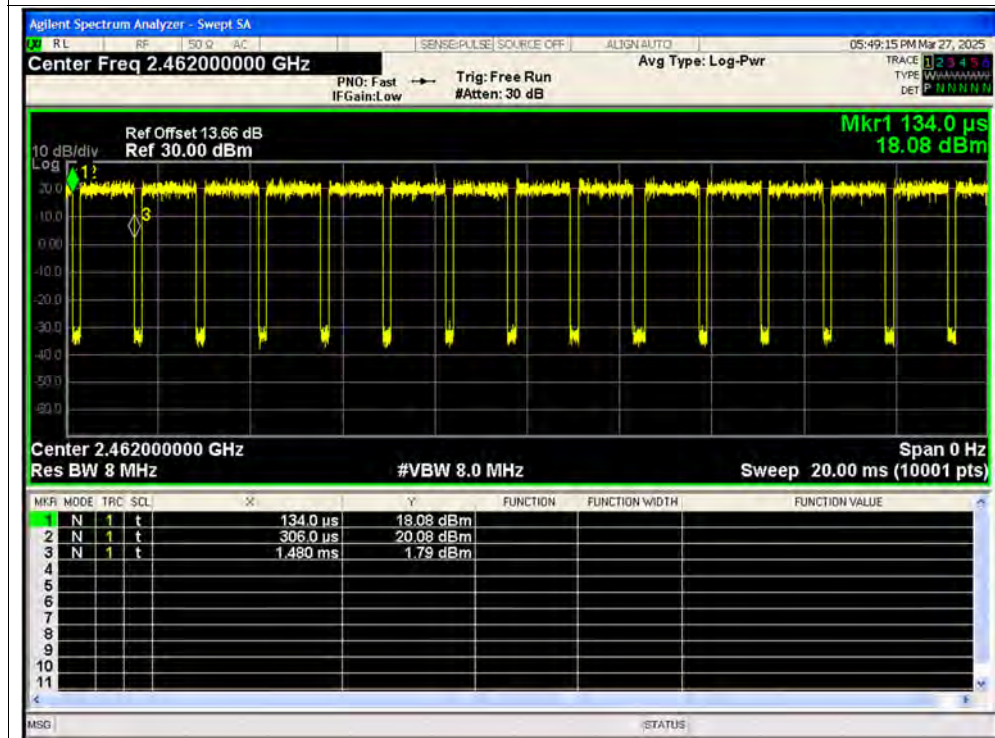


Duty Cycle NVNT n20 2437MHz Ant1

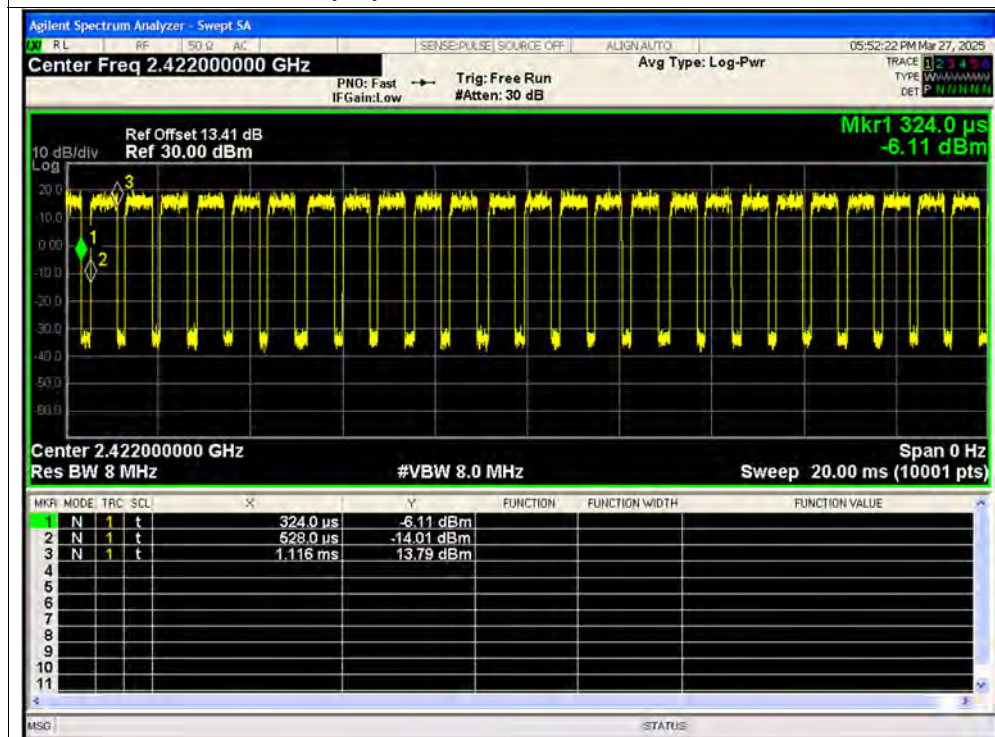




Duty Cycle NVNT n20 2462MHz Ant1

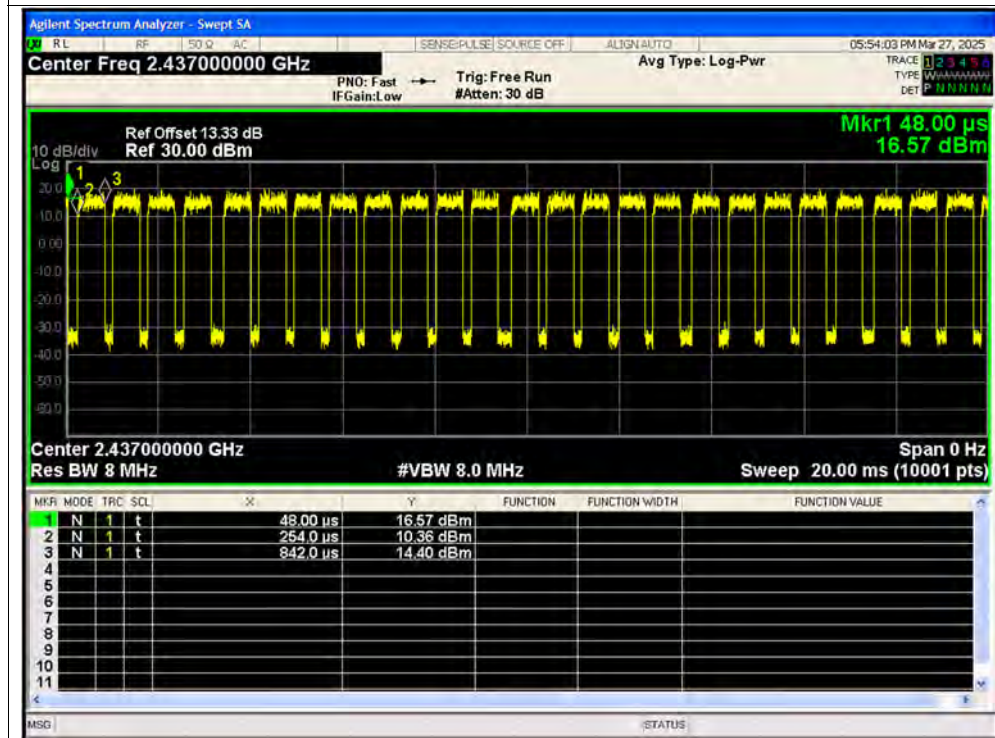


Duty Cycle NVNT n40 2422MHz Ant1

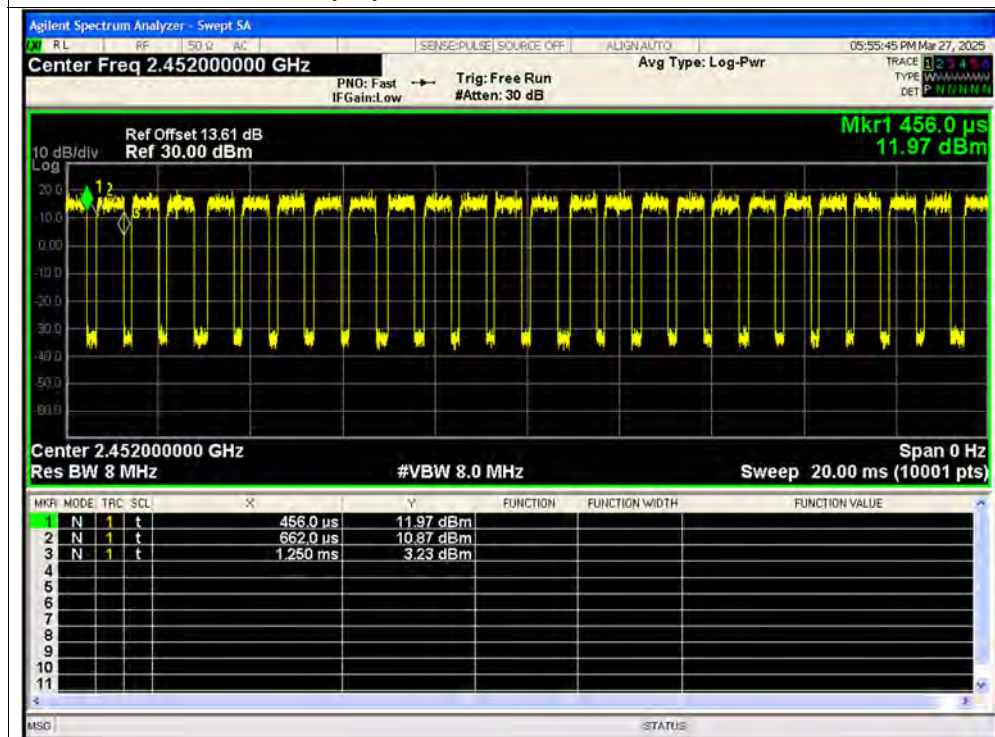




Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1

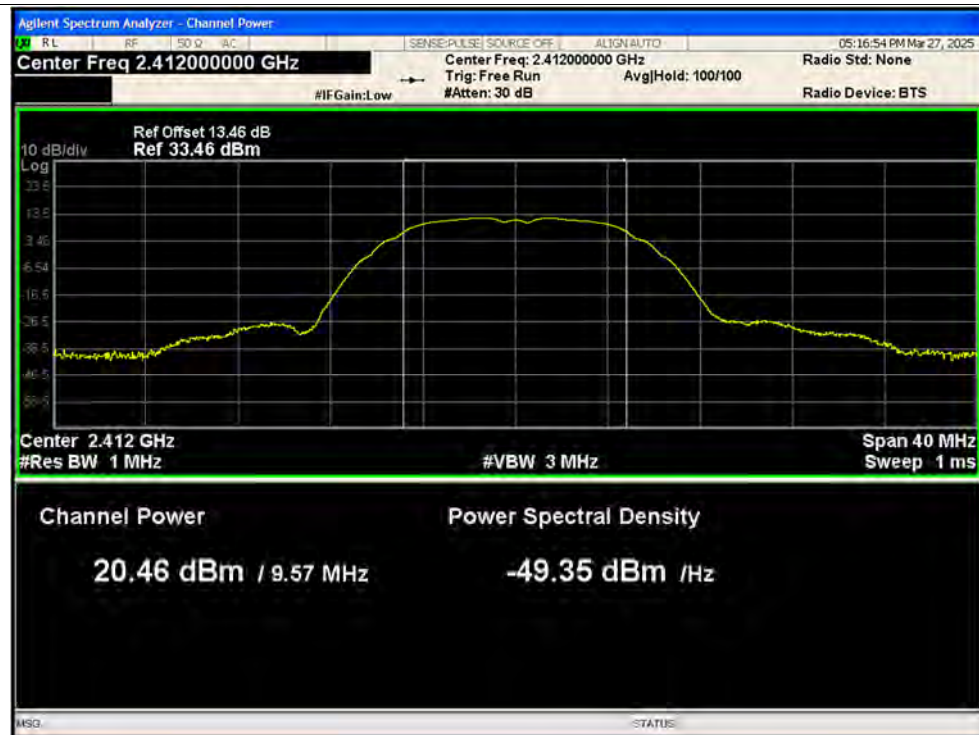


**A.2. Maximum Peak Conducted Output Power**

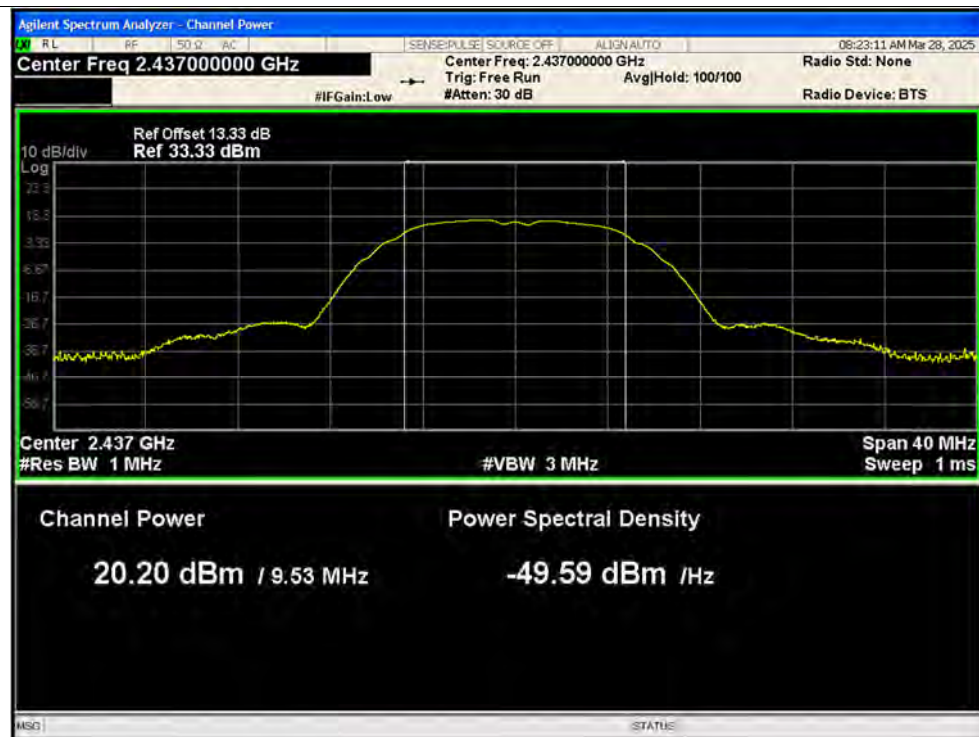
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	20.46	0	20.46	0.11117	30	Pass
NVNT	b	2437	Ant1	20.2	0	20.2	0.10471	30	Pass
NVNT	b	2462	Ant1	20.91	0	20.91	0.12331	30	Pass
NVNT	g	2412	Ant1	24.28	0	24.28	0.26792	30	Pass
NVNT	g	2437	Ant1	23.81	0	23.81	0.24044	30	Pass
NVNT	g	2462	Ant1	24.34	0	24.34	0.27164	30	Pass
NVNT	n20	2412	Ant1	24.38	0	24.38	0.27416	30	Pass
NVNT	n20	2437	Ant1	24	0	24	0.25119	30	Pass
NVNT	n20	2462	Ant1	24.31	0	24.31	0.26977	30	Pass
NVNT	n40	2422	Ant1	24.07	0	24.07	0.25527	30	Pass
NVNT	n40	2437	Ant1	23.19	0	23.19	0.20845	30	Pass
NVNT	n40	2452	Ant1	23.59	0	23.59	0.22856	30	Pass

Test Graphs

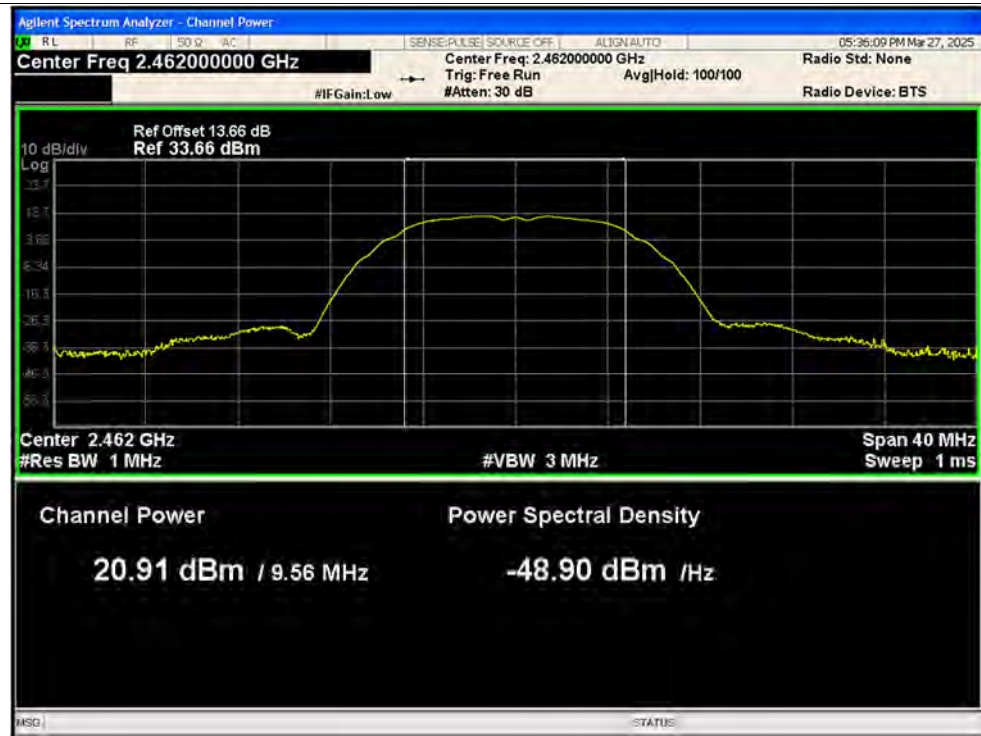
Peak Power NVNT b 2412MHz Ant1



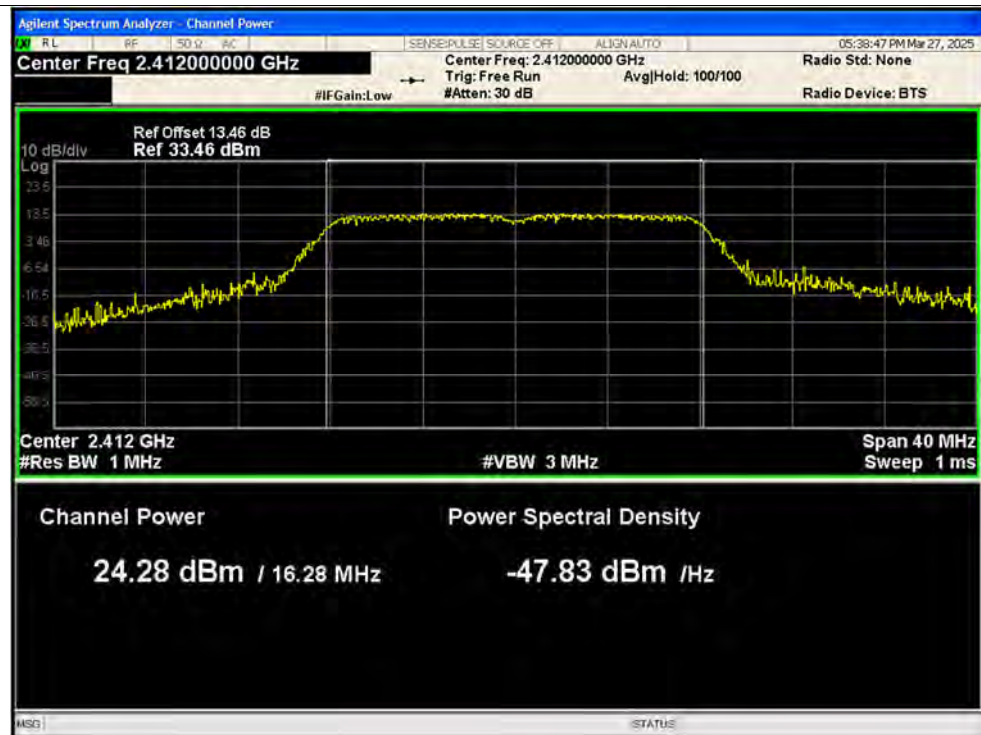
Peak Power NVNT b 2437MHz Ant1



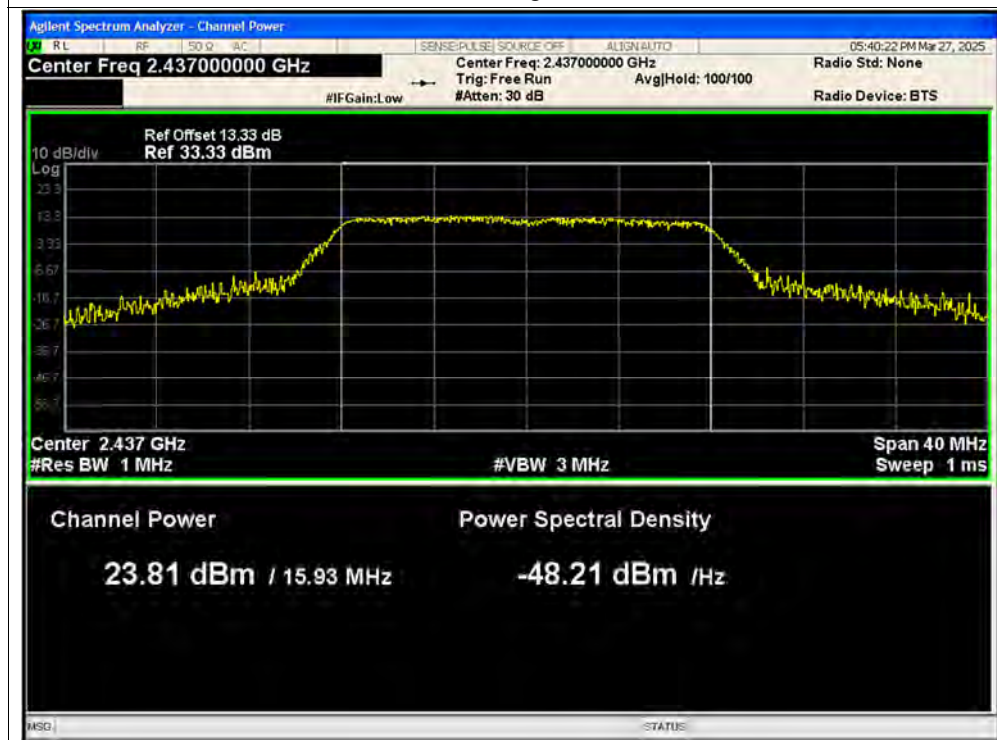
Peak Power NVNT b 2462MHz Ant1



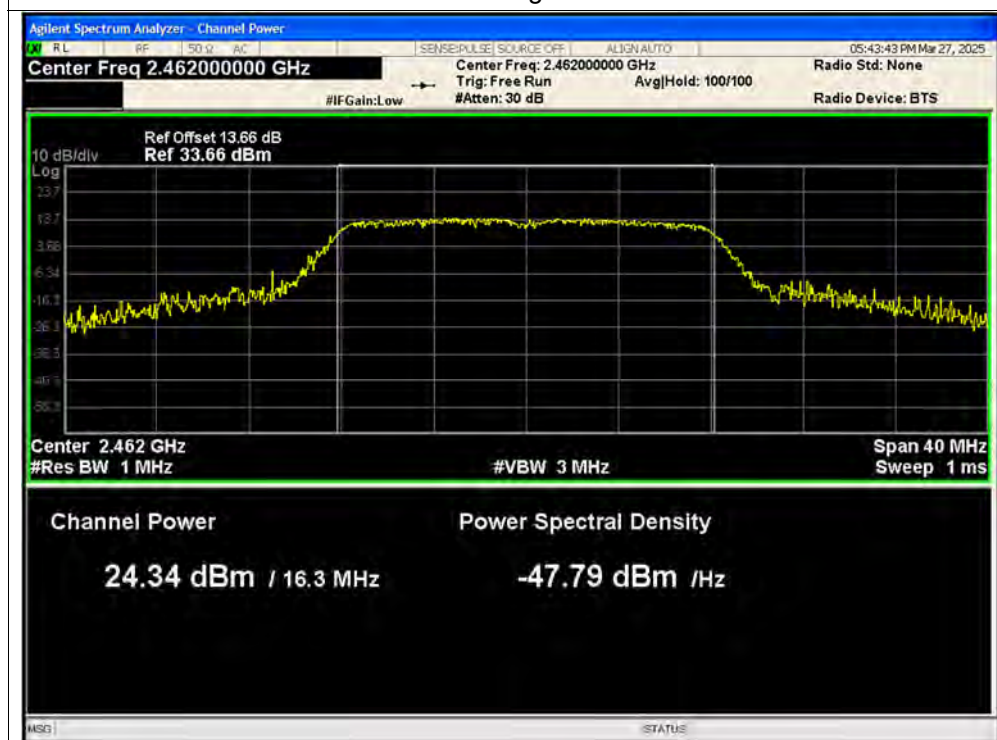
Peak Power NVNT g 2412MHz Ant1



Peak Power NVNT g 2437MHz Ant1

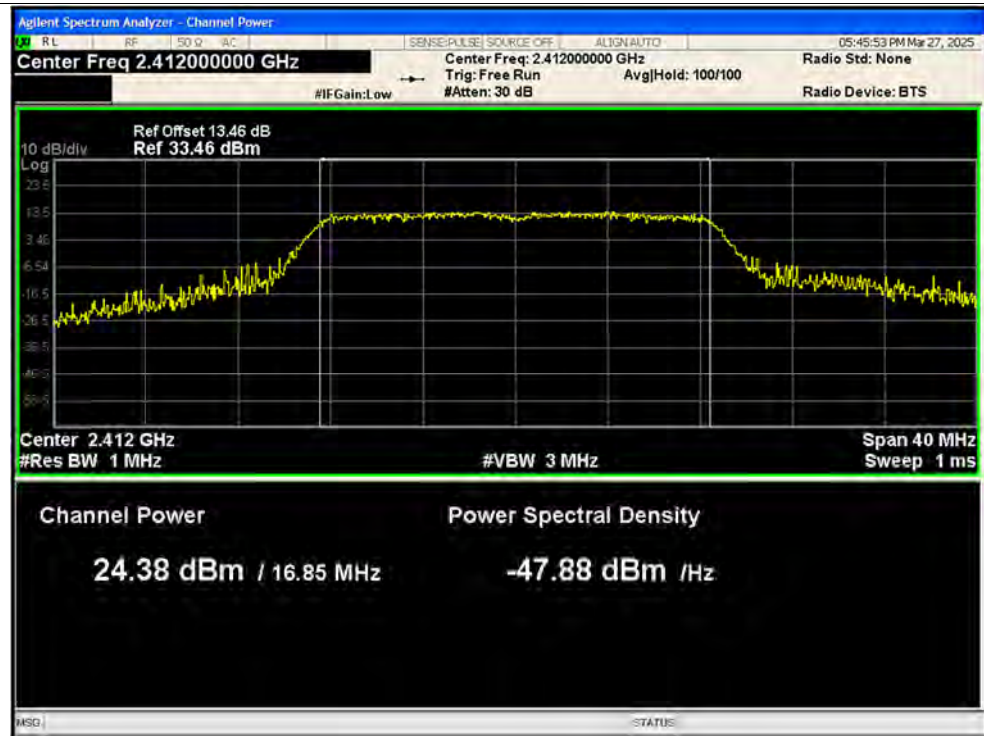


Peak Power NVNT g 2462MHz Ant1

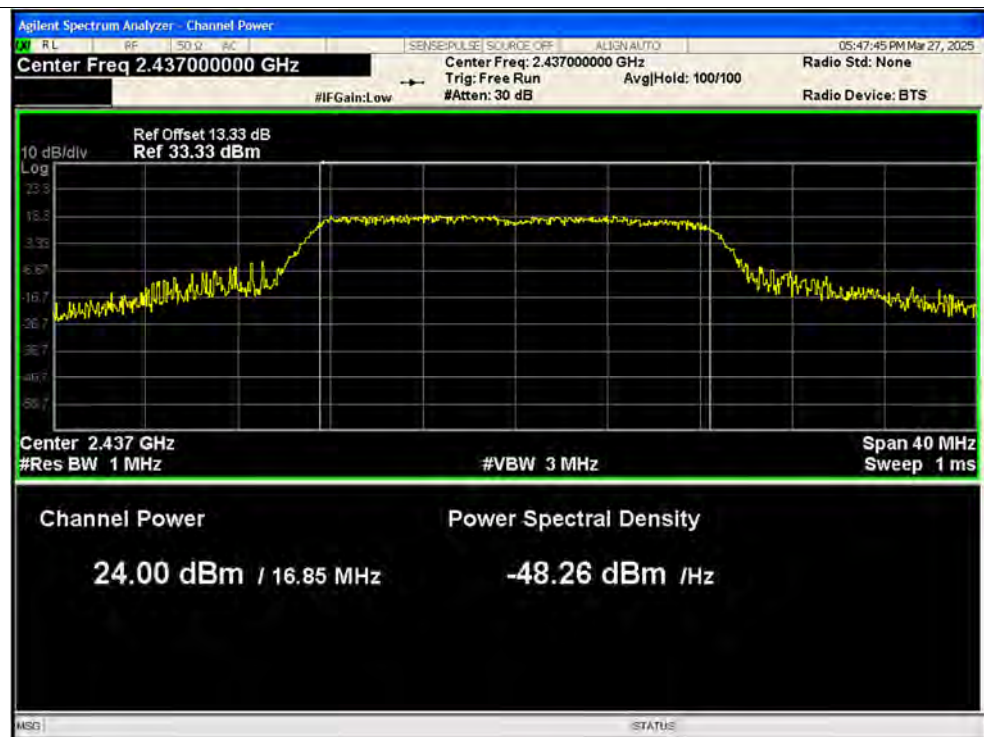




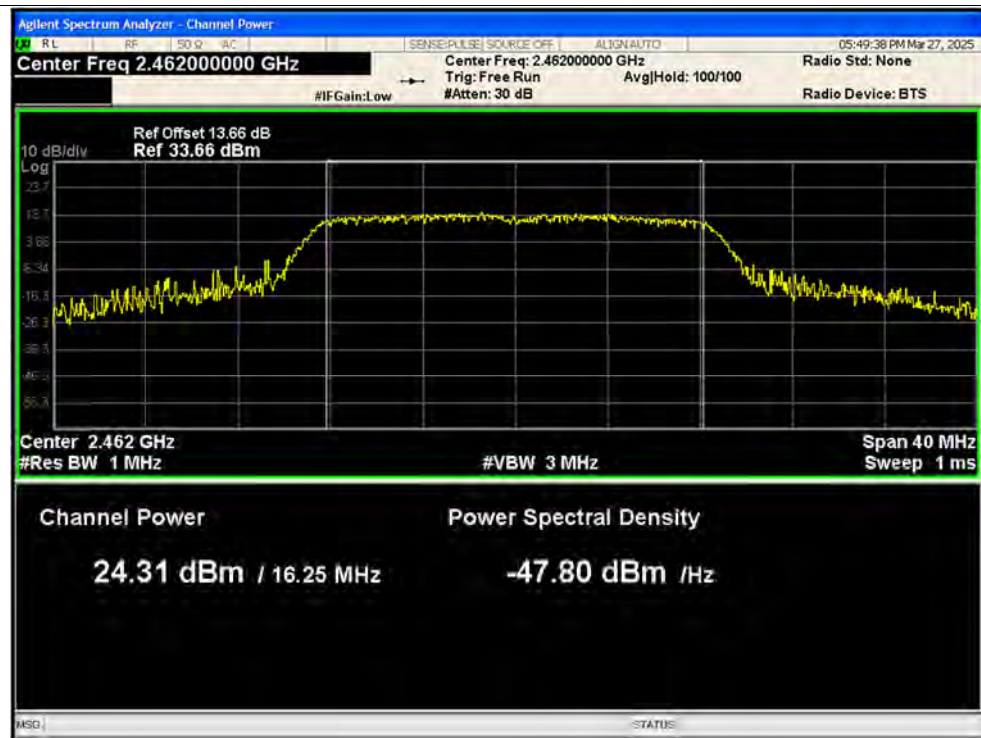
Peak Power NVNT n20 2412MHz Ant1



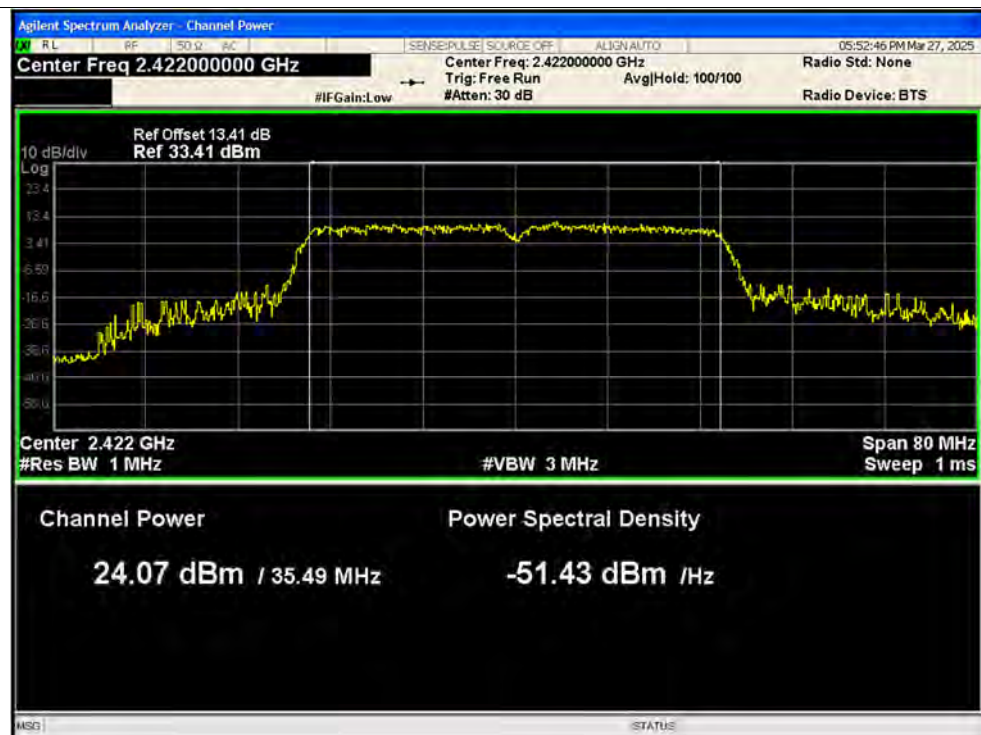
Peak Power NVNT n20 2437MHz Ant1



Peak Power NVNT n20 2462MHz Ant1

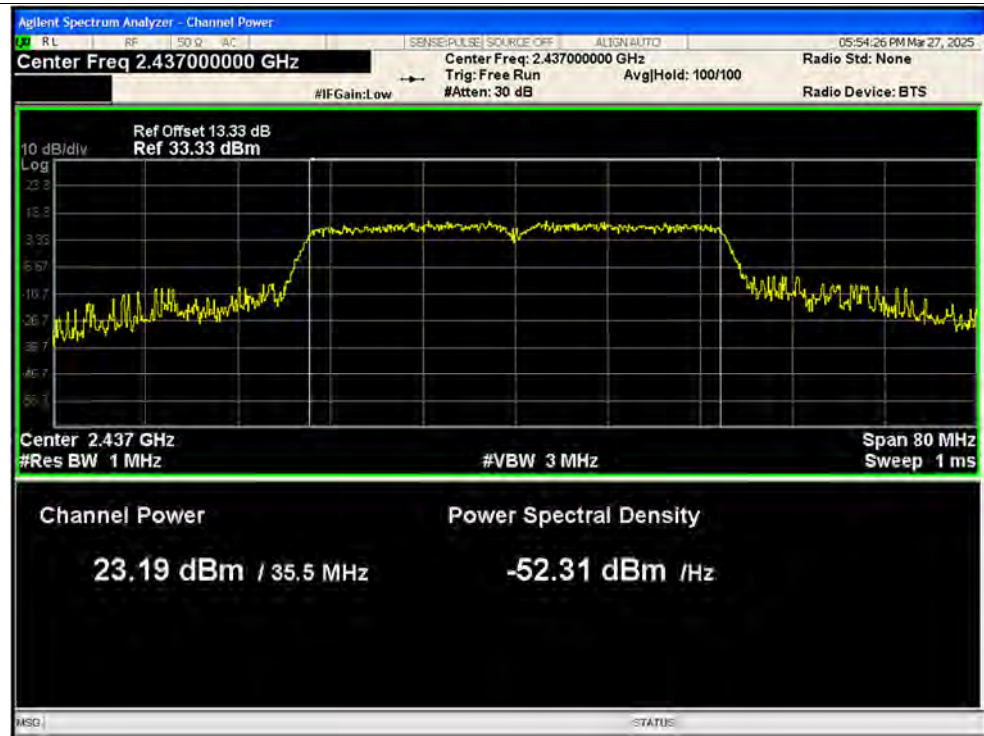


Peak Power NVNT n40 2422MHz Ant1

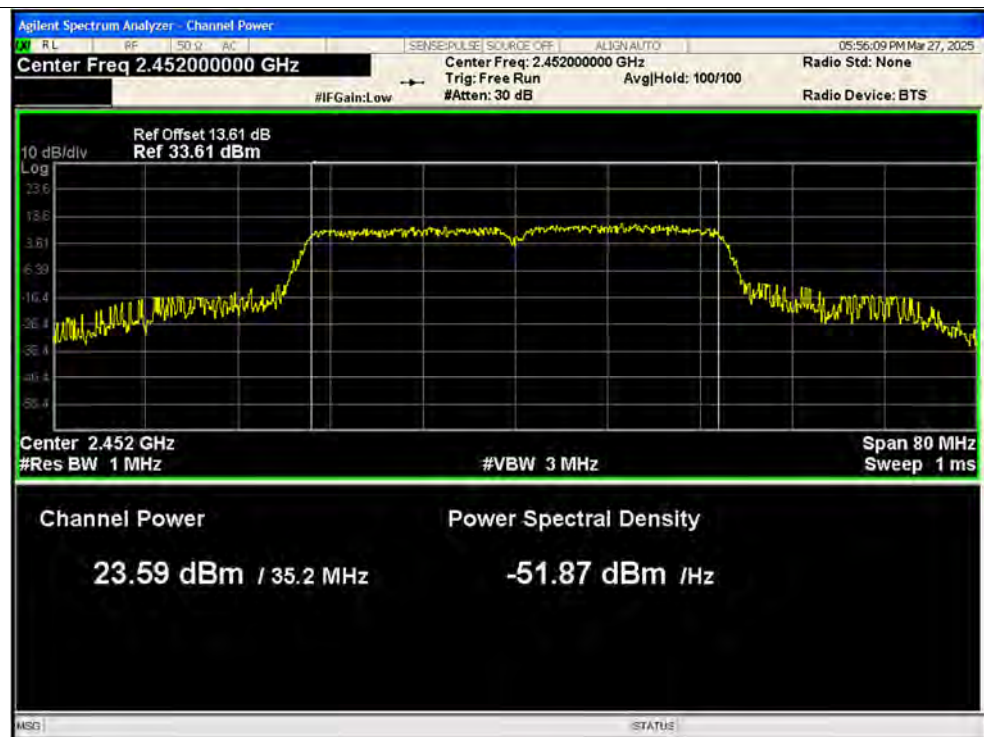




Peak Power NVNT n40 2437MHz Ant1



Peak Power NVNT n40 2452MHz Ant1

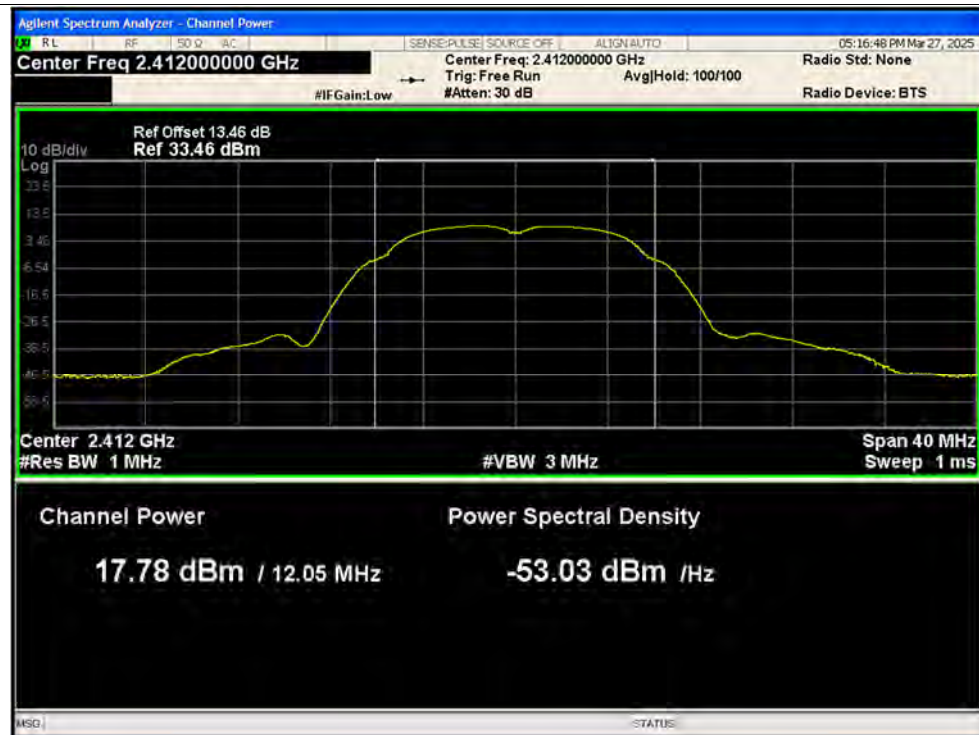


**A.3. Maximum Average Conducted Output Power**

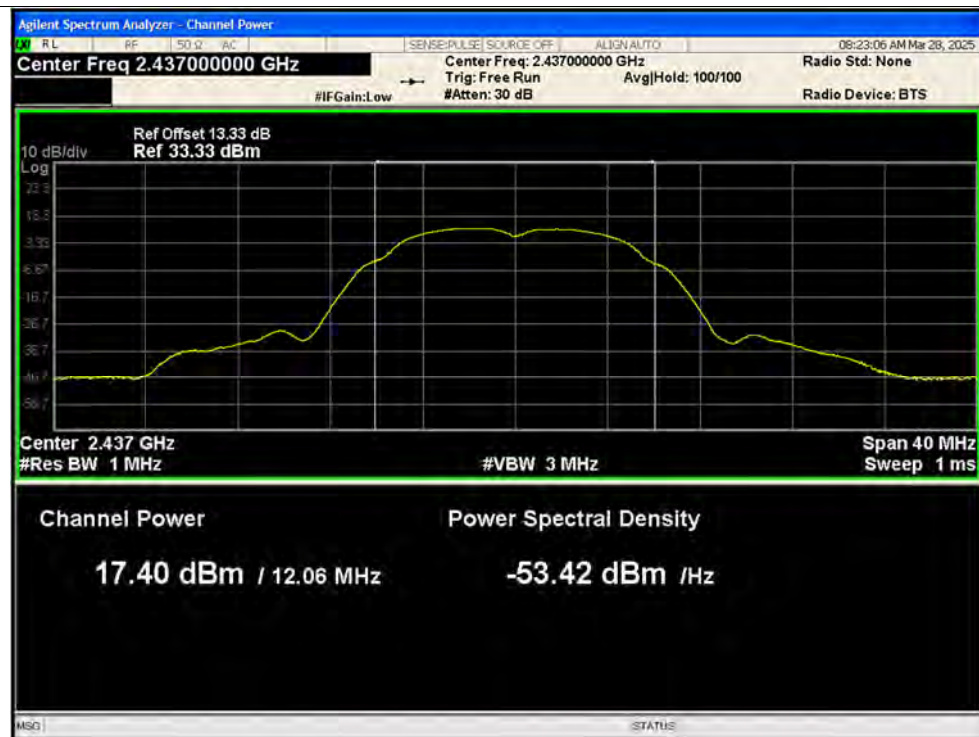
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	17.78	0.09	17.87	0.06124	30	Pass
NVNT	b	2437	Ant1	17.4	0.09	17.49	0.0561	30	Pass
NVNT	b	2462	Ant1	18.05	0.09	18.14	0.06516	30	Pass
NVNT	g	2412	Ant1	16.61	0.79	17.4	0.05495	30	Pass
NVNT	g	2437	Ant1	16.23	0.58	16.81	0.04797	30	Pass
NVNT	g	2462	Ant1	16.73	0.53	17.26	0.05321	30	Pass
NVNT	n20	2412	Ant1	16.51	0.59	17.1	0.05129	30	Pass
NVNT	n20	2437	Ant1	16.01	0.62	16.63	0.04603	30	Pass
NVNT	n20	2462	Ant1	16.56	0.59	17.15	0.05188	30	Pass
NVNT	n40	2422	Ant1	15.64	1.29	16.93	0.04932	30	Pass
NVNT	n40	2437	Ant1	14.75	1.3	16.05	0.04027	30	Pass
NVNT	n40	2452	Ant1	15.19	1.3	16.49	0.04457	30	Pass

Test Graphs

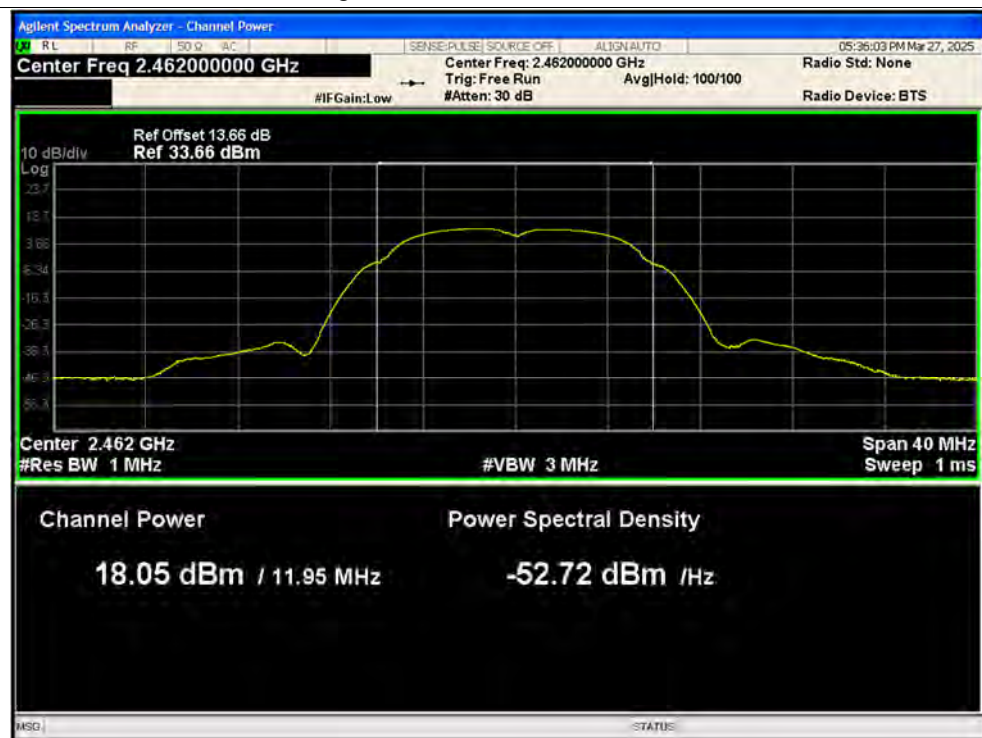
Average Power NVNT b 2412MHz Ant1



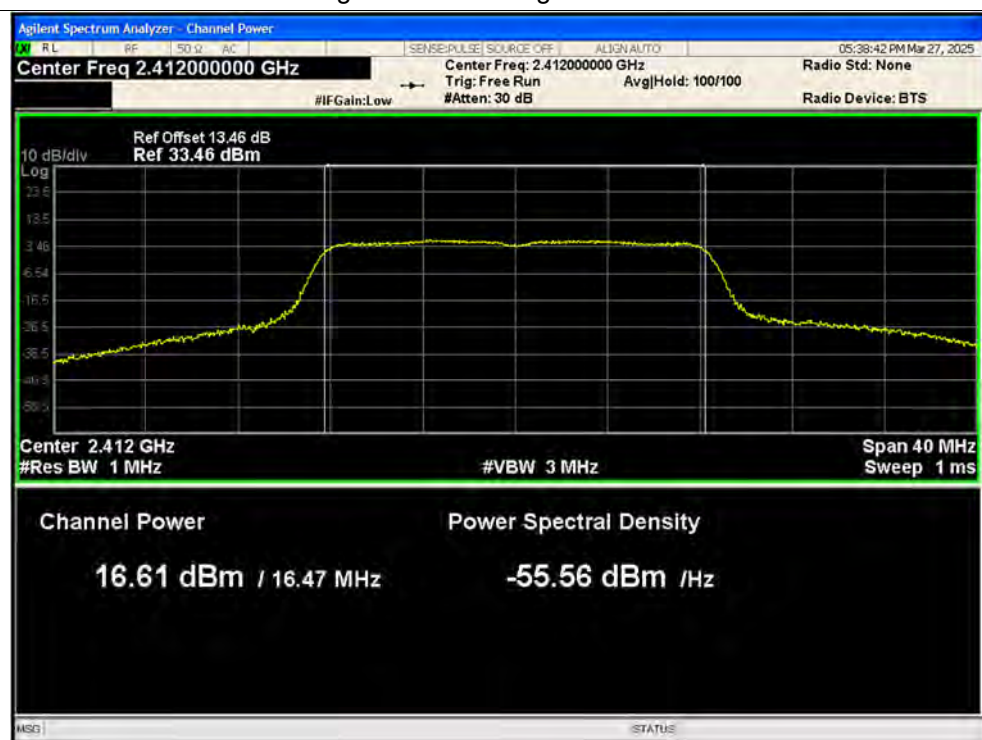
Average Power NVNT b 2437MHz Ant1



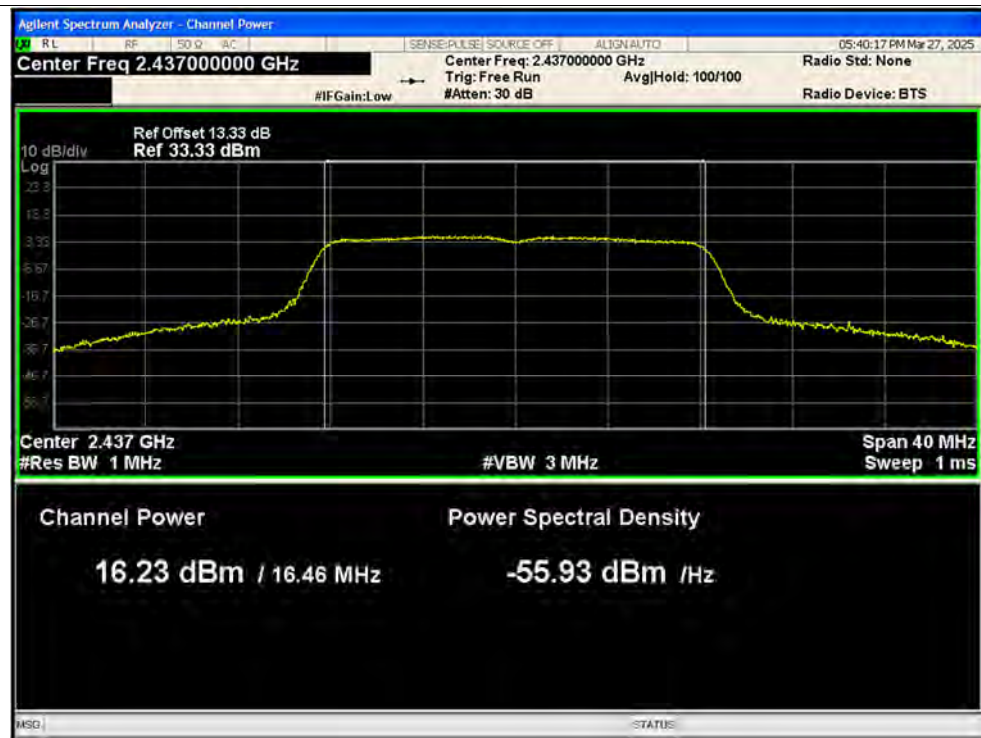
Average Power NVNT b 2462MHz Ant1



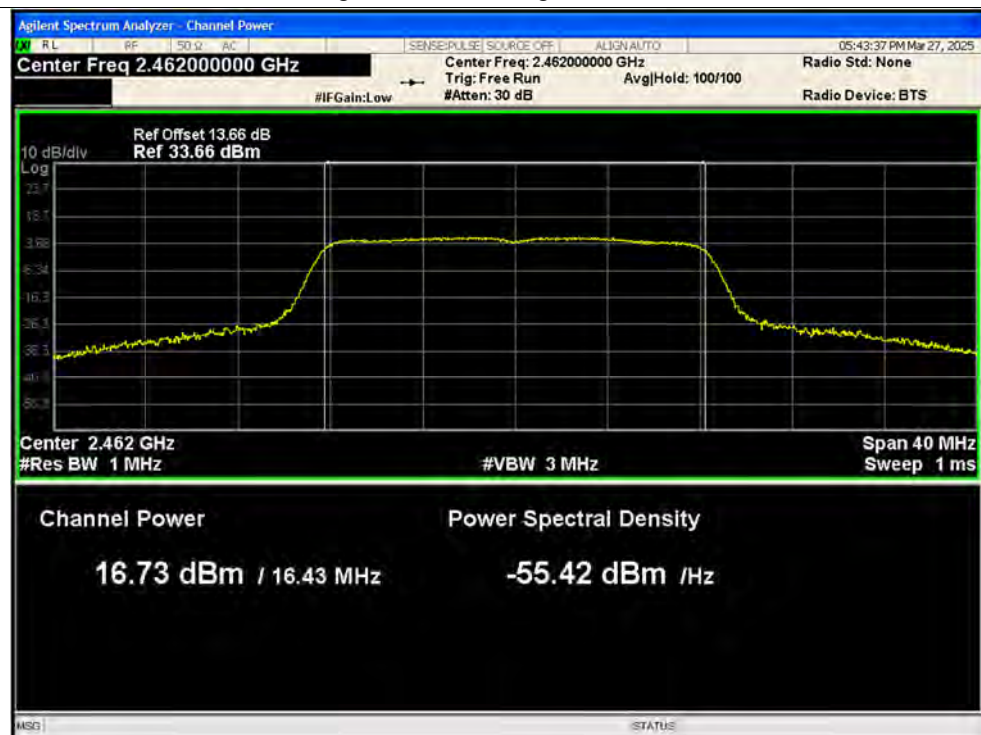
Average Power NVNT g 2412MHz Ant1



Average Power NVNT g 2437MHz Ant1

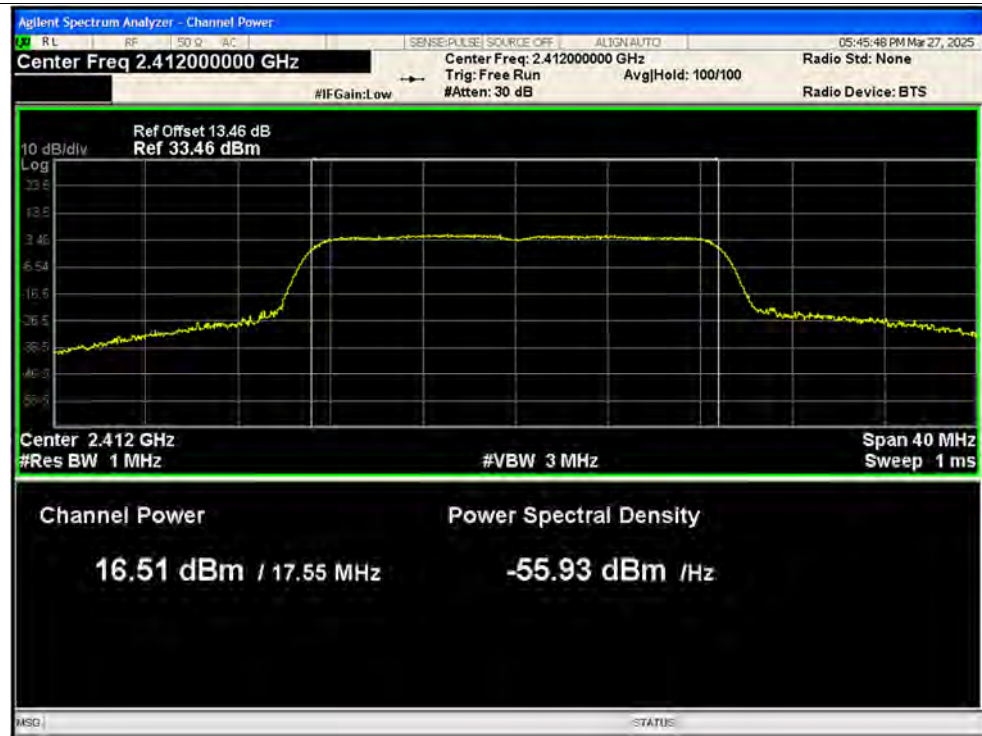


Average Power NVNT g 2462MHz Ant1

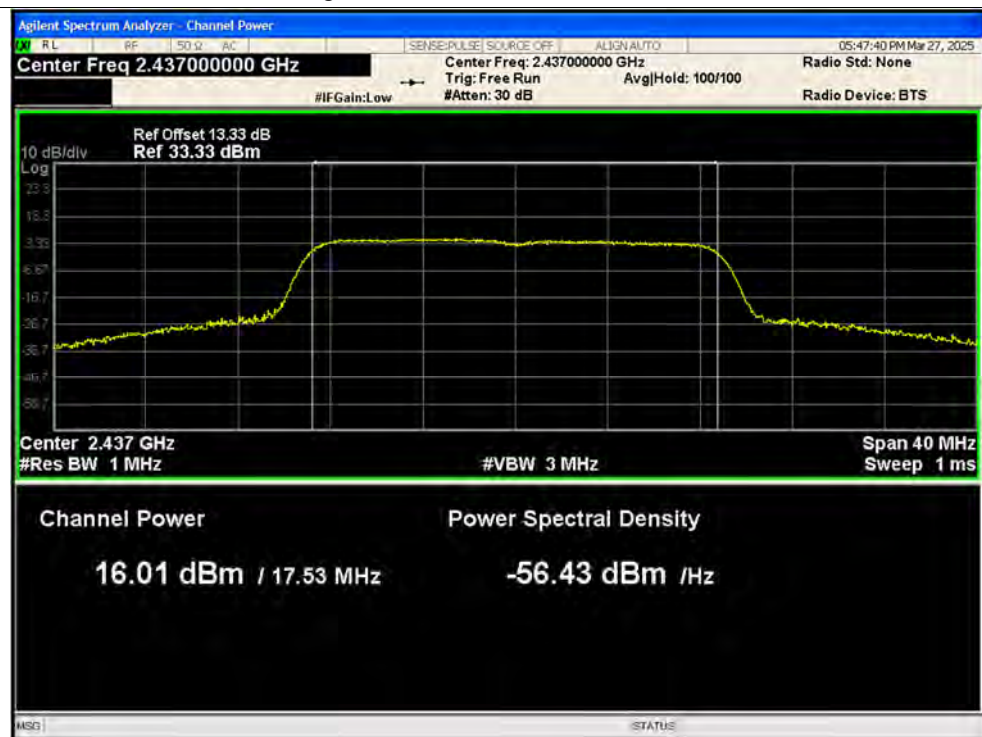




Average Power NVNT n20 2412MHz Ant1

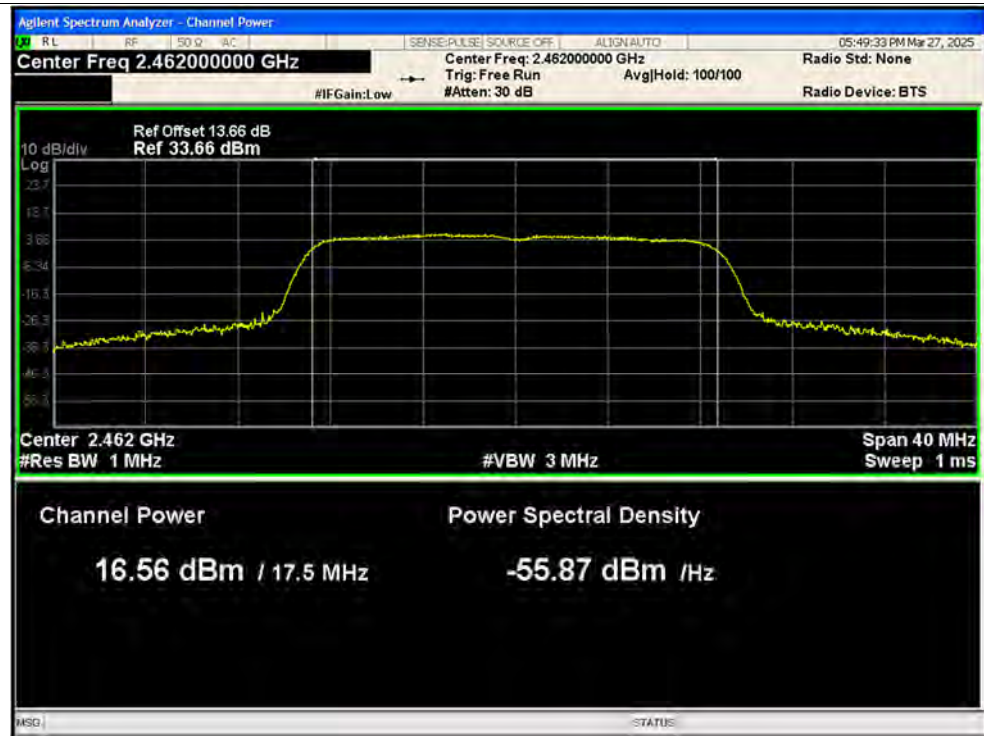


Average Power NVNT n20 2437MHz Ant1

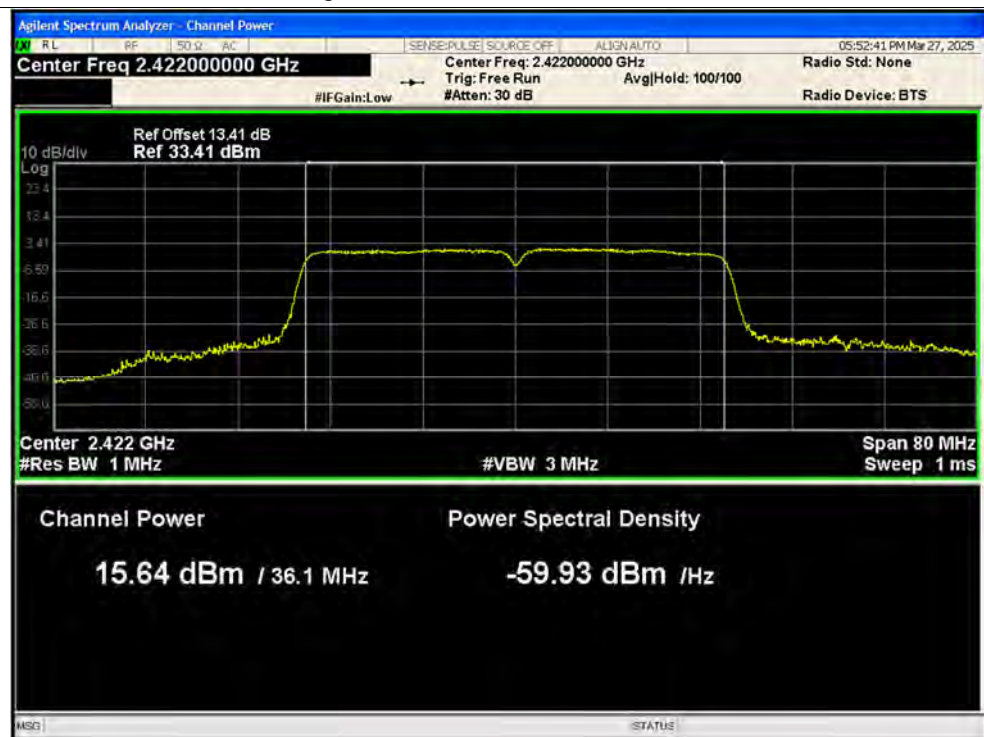




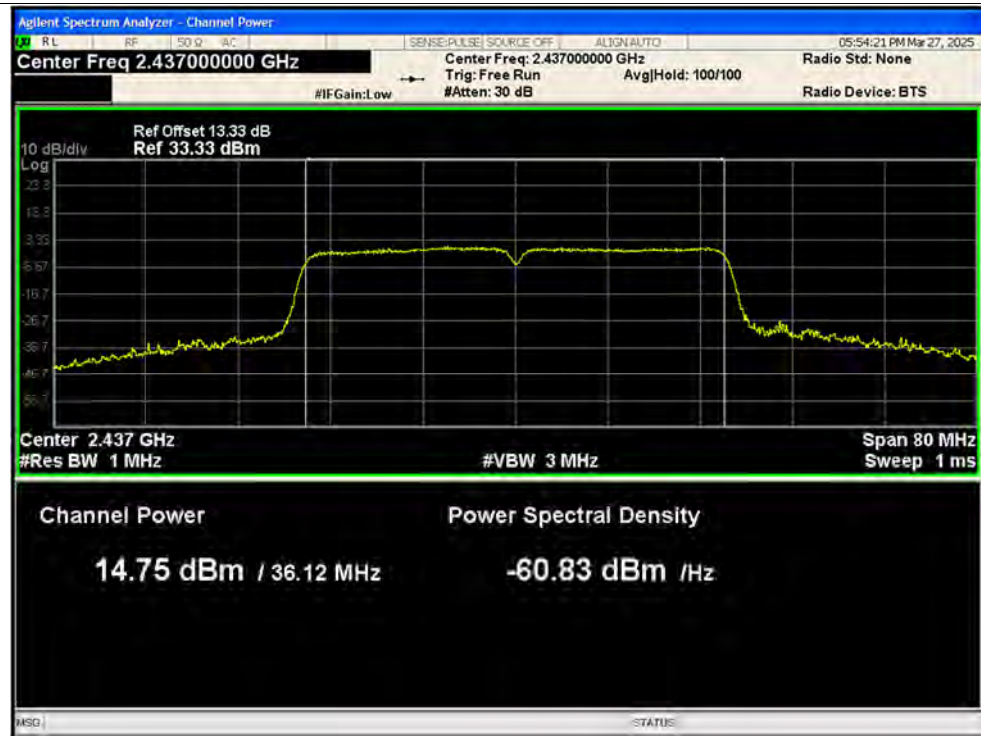
Average Power NVNT n20 2462MHz Ant1



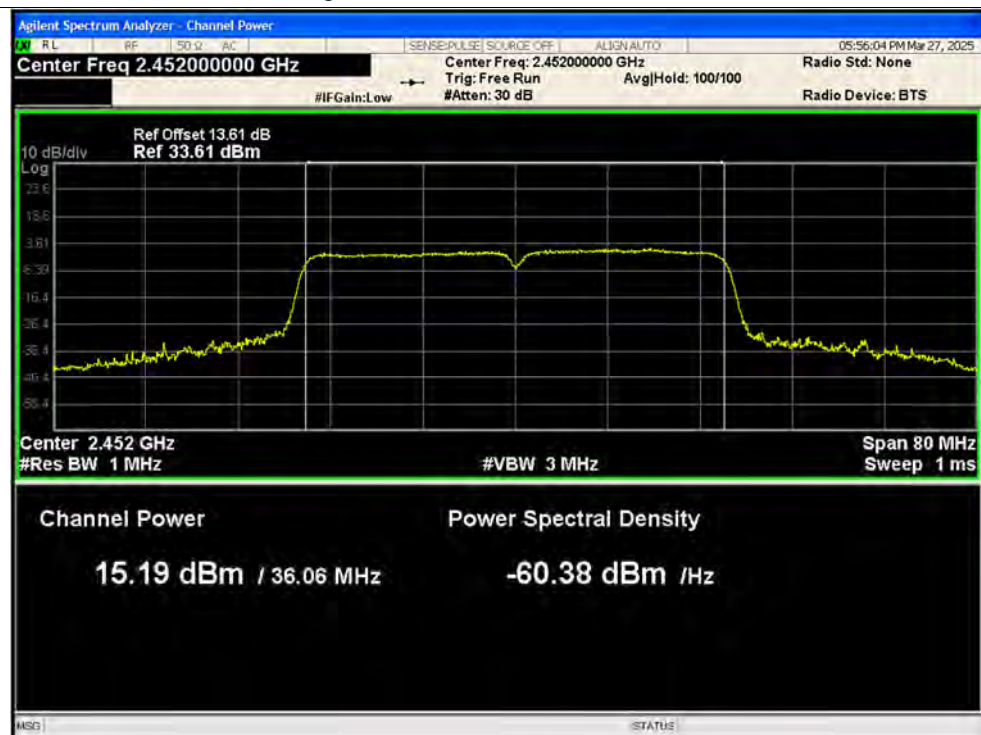
Average Power NVNT n40 2422MHz Ant1



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	9.57	0.5	Pass
NVNT	b	2437	Ant1	9.53	0.5	Pass
NVNT	b	2462	Ant1	9.56	0.5	Pass
NVNT	g	2412	Ant1	16.28	0.5	Pass
NVNT	g	2437	Ant1	15.93	0.5	Pass
NVNT	g	2462	Ant1	16.3	0.5	Pass
NVNT	n20	2412	Ant1	16.85	0.5	Pass
NVNT	n20	2437	Ant1	16.85	0.5	Pass
NVNT	n20	2462	Ant1	16.25	0.5	Pass
NVNT	n40	2422	Ant1	35.49	0.5	Pass
NVNT	n40	2437	Ant1	35.5	0.5	Pass
NVNT	n40	2452	Ant1	35.2	0.5	Pass



Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



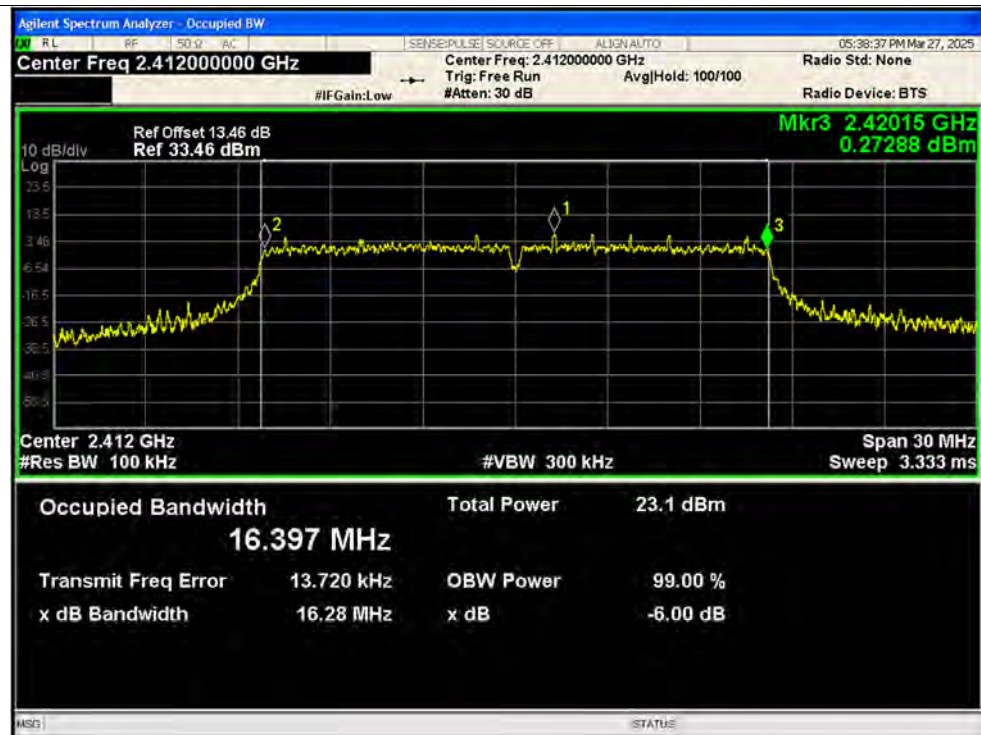
-6dB Bandwidth NVNT b 2437MHz Ant1



-6dB Bandwidth NVNT b 2462MHz Ant1

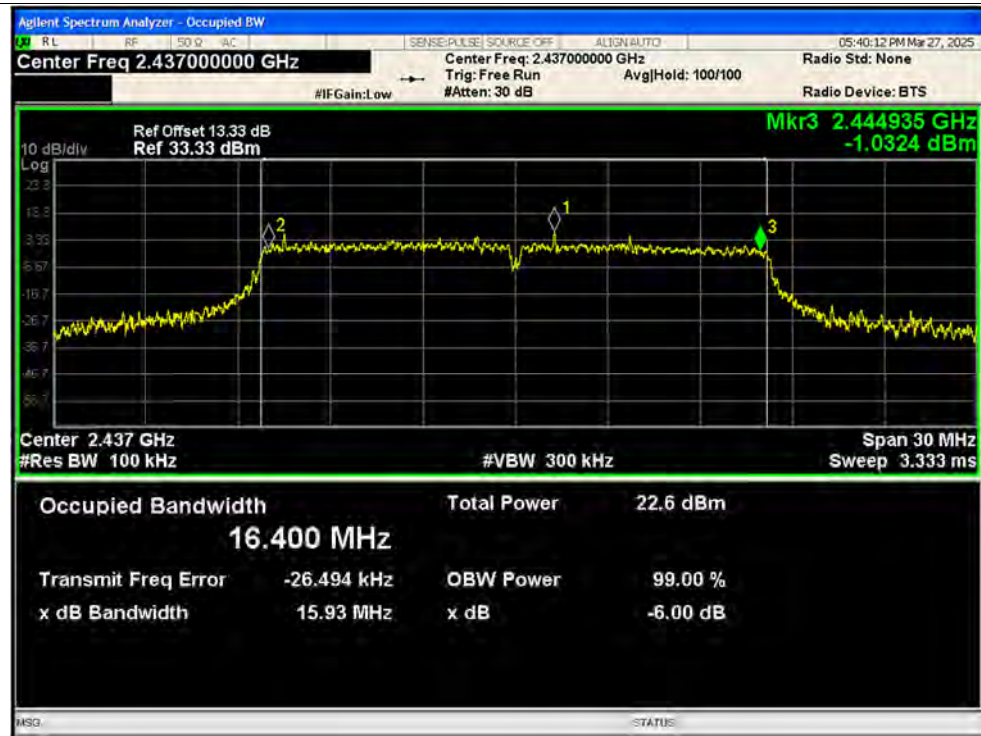


-6dB Bandwidth NVNT g 2412MHz Ant1

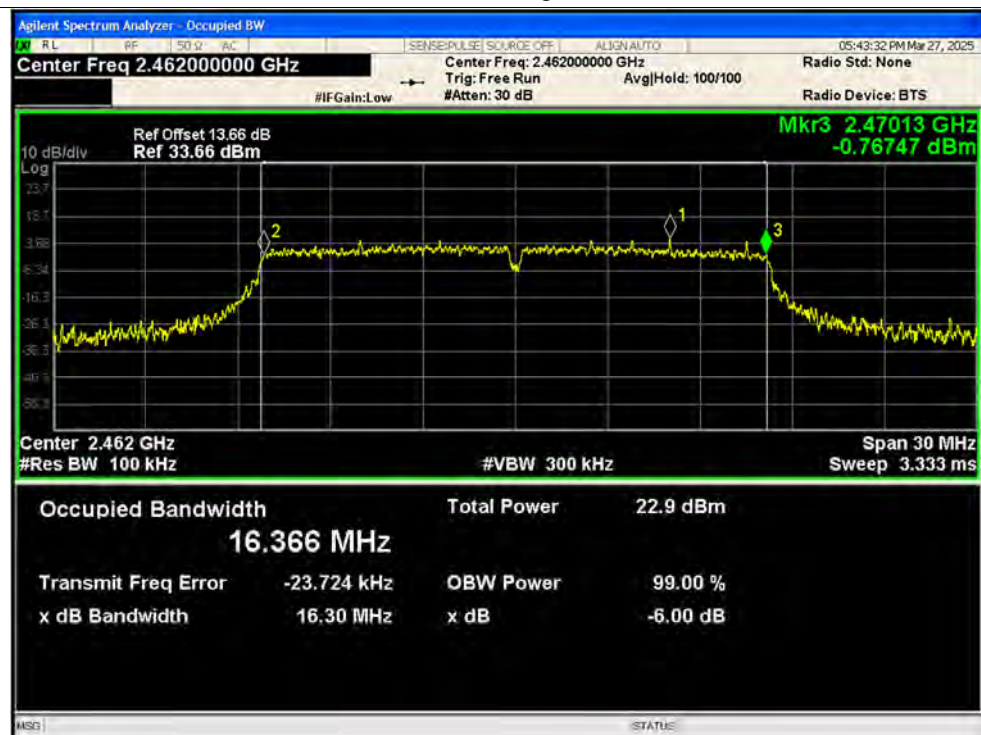




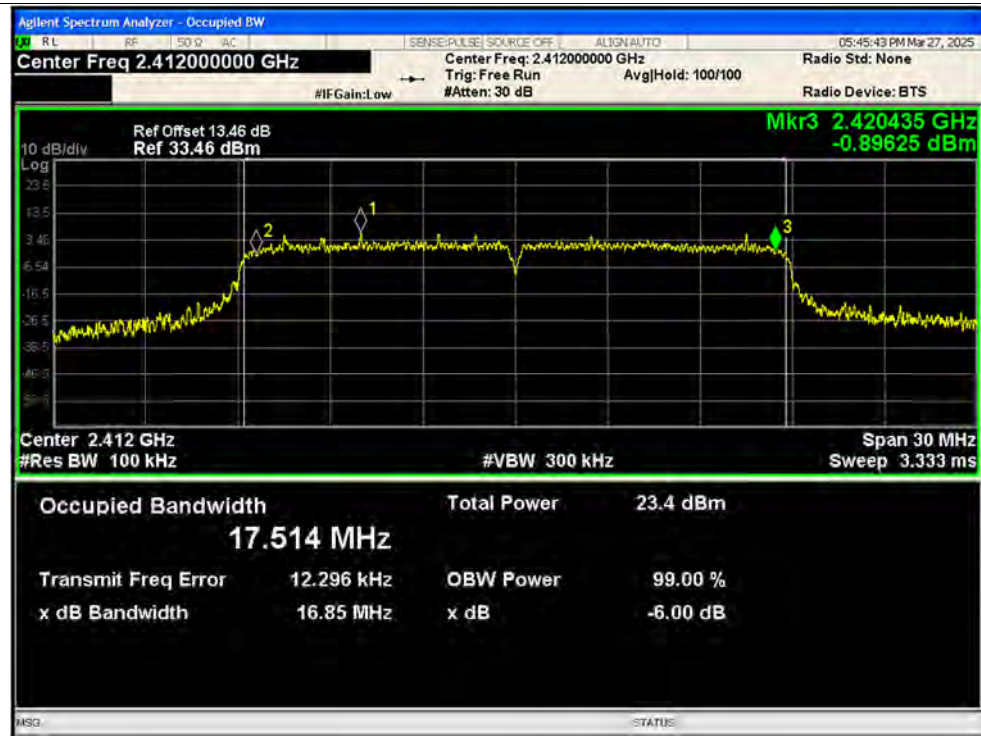
-6dB Bandwidth NVNT g 2437MHz Ant1



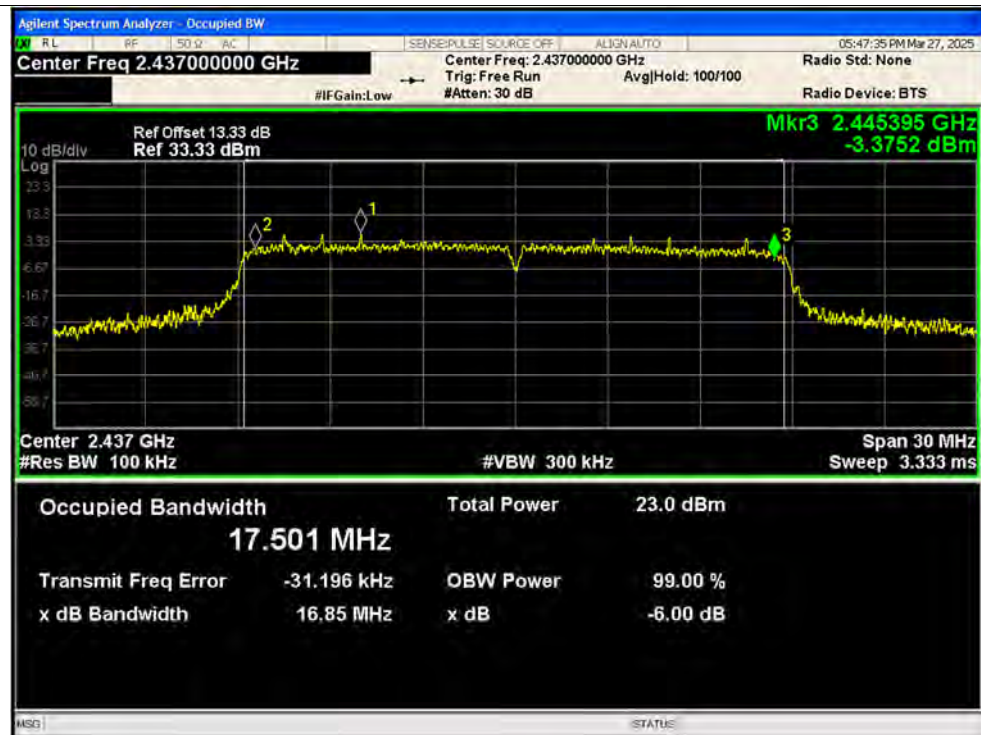
-6dB Bandwidth NVNT g 2462MHz Ant1



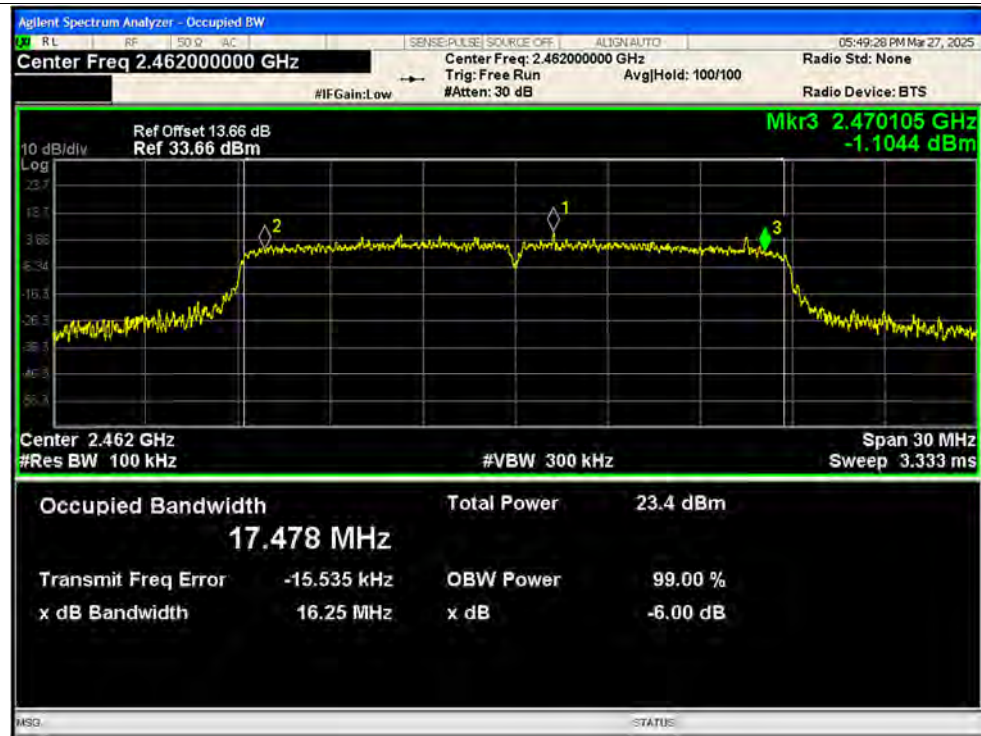
-6dB Bandwidth NVNT n20 2412MHz Ant1



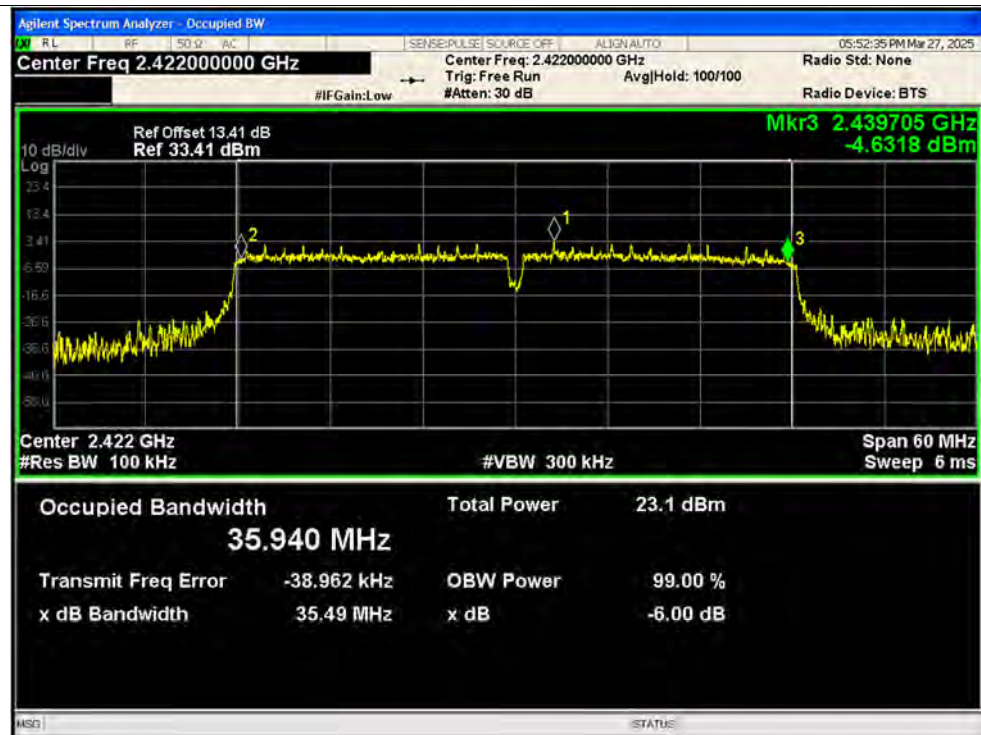
-6dB Bandwidth NVNT n20 2437MHz Ant1



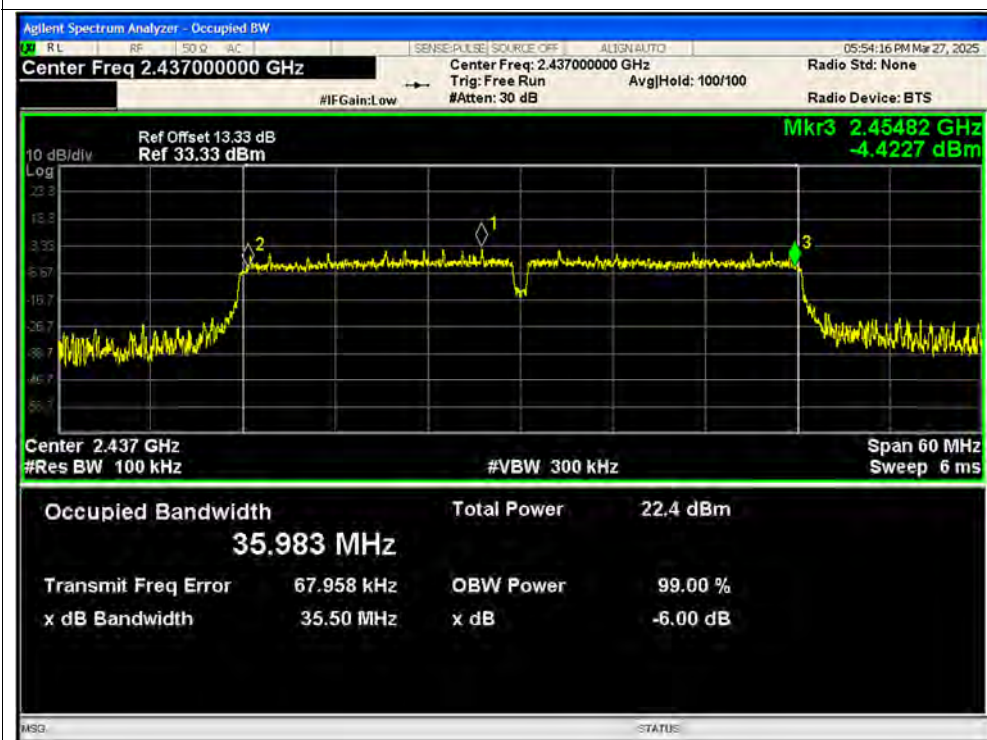
-6dB Bandwidth NVNT n20 2462MHz Ant1



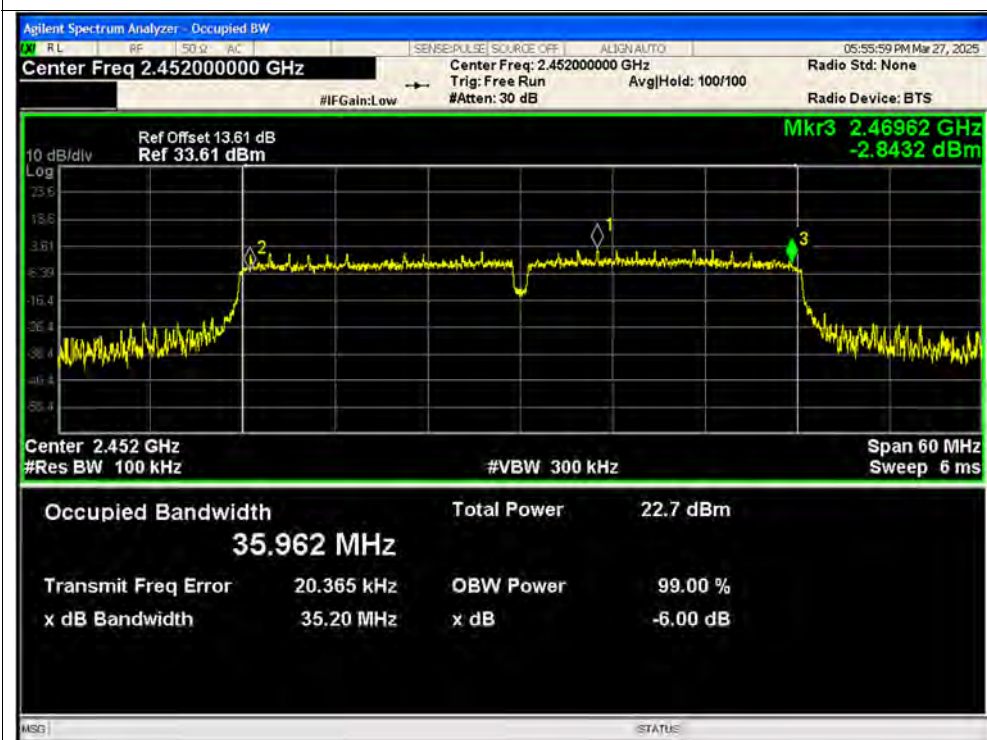
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



**A.5. Conducted Spurious Emissions**

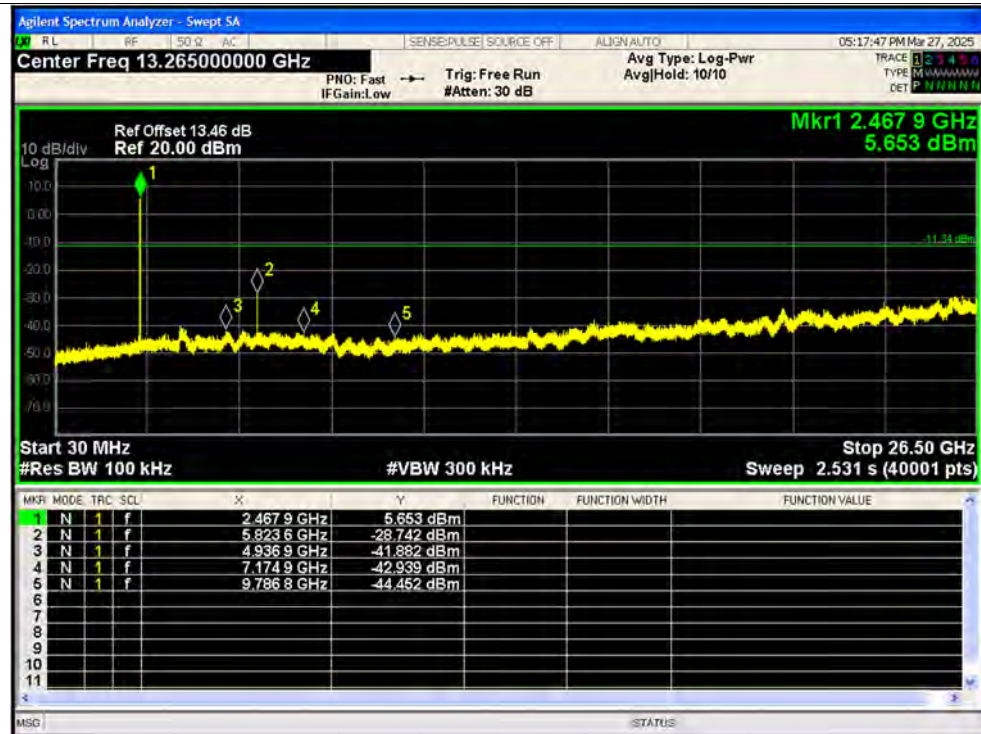
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.4	-20	Pass
NVNT	b	2437	Ant1	-38.01	-20	Pass
NVNT	b	2462	Ant1	-38.24	-20	Pass
NVNT	g	2412	Ant1	-35.76	-20	Pass
NVNT	g	2437	Ant1	-33.97	-20	Pass
NVNT	g	2462	Ant1	-35.46	-20	Pass
NVNT	n20	2412	Ant1	-34.8	-20	Pass
NVNT	n20	2437	Ant1	-35.06	-20	Pass
NVNT	n20	2462	Ant1	-35.04	-20	Pass
NVNT	n40	2422	Ant1	-32.33	-20	Pass
NVNT	n40	2437	Ant1	-31.21	-20	Pass
NVNT	n40	2452	Ant1	-32.22	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



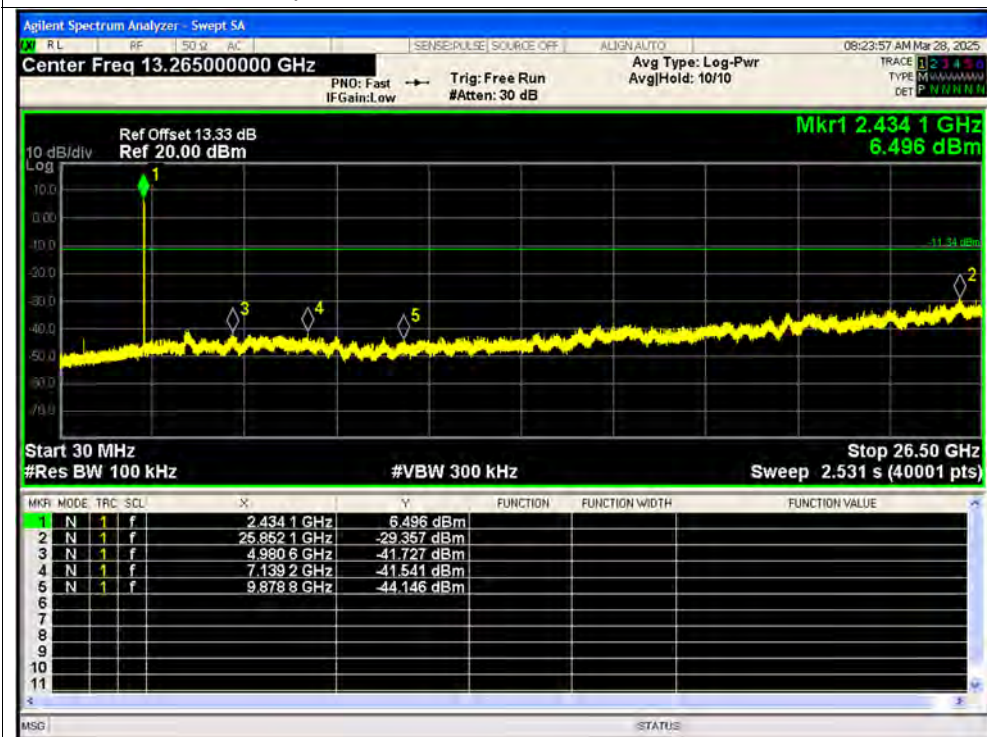
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



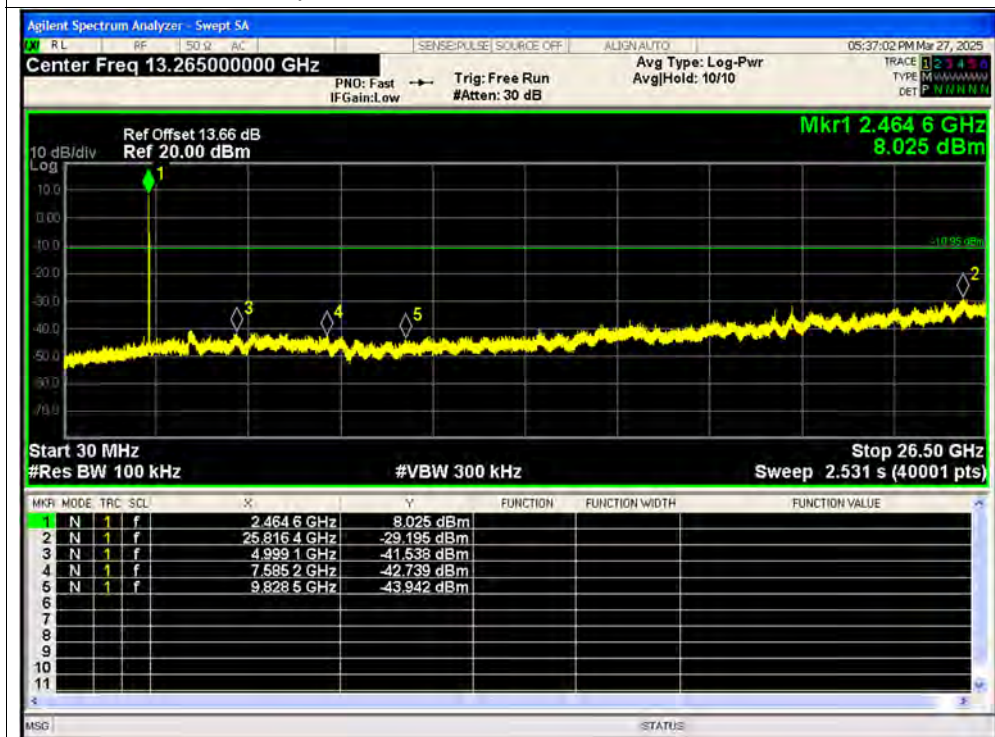
Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref



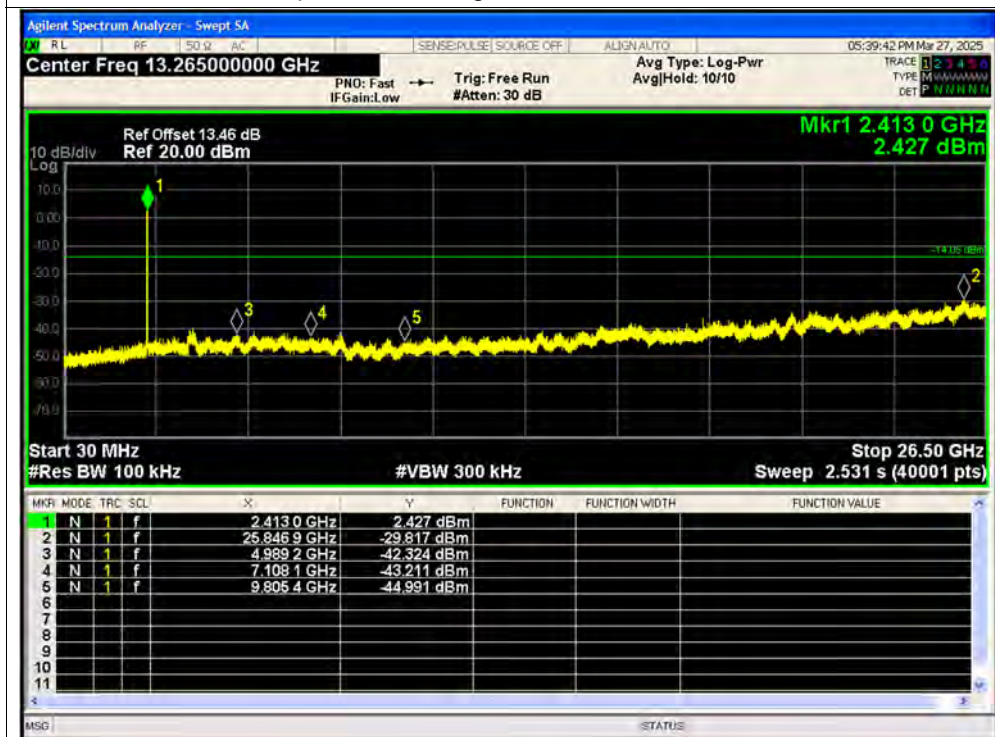
Tx. Spurious NVNT b 2462MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref



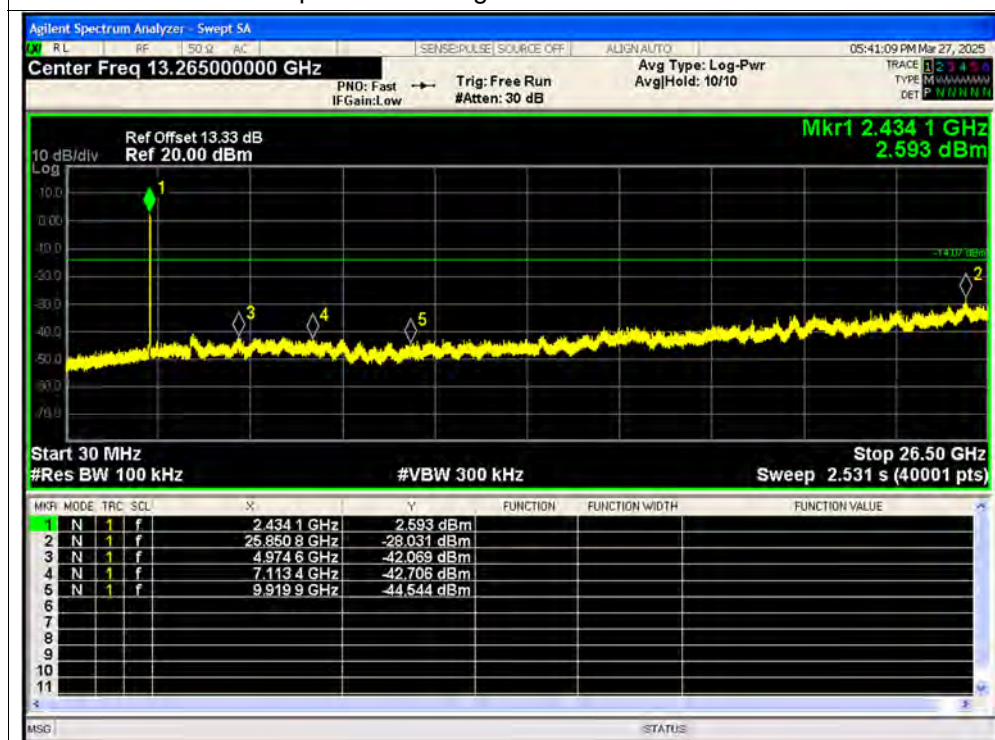
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



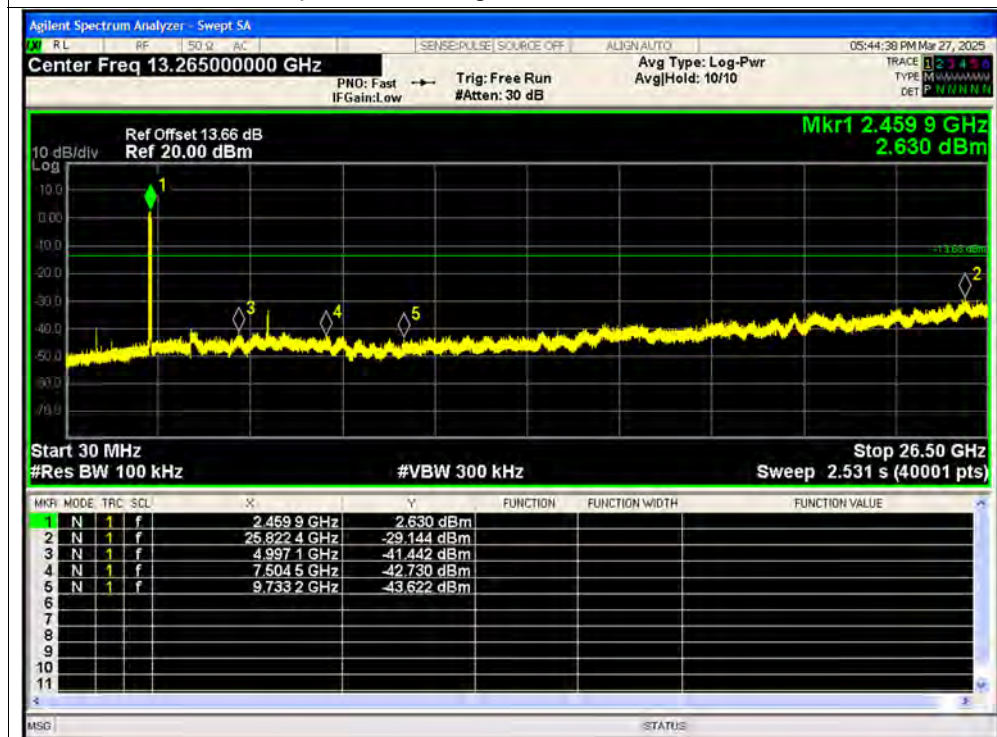
Tx. Spurious NVNT g 2437MHz Ant1 Emission



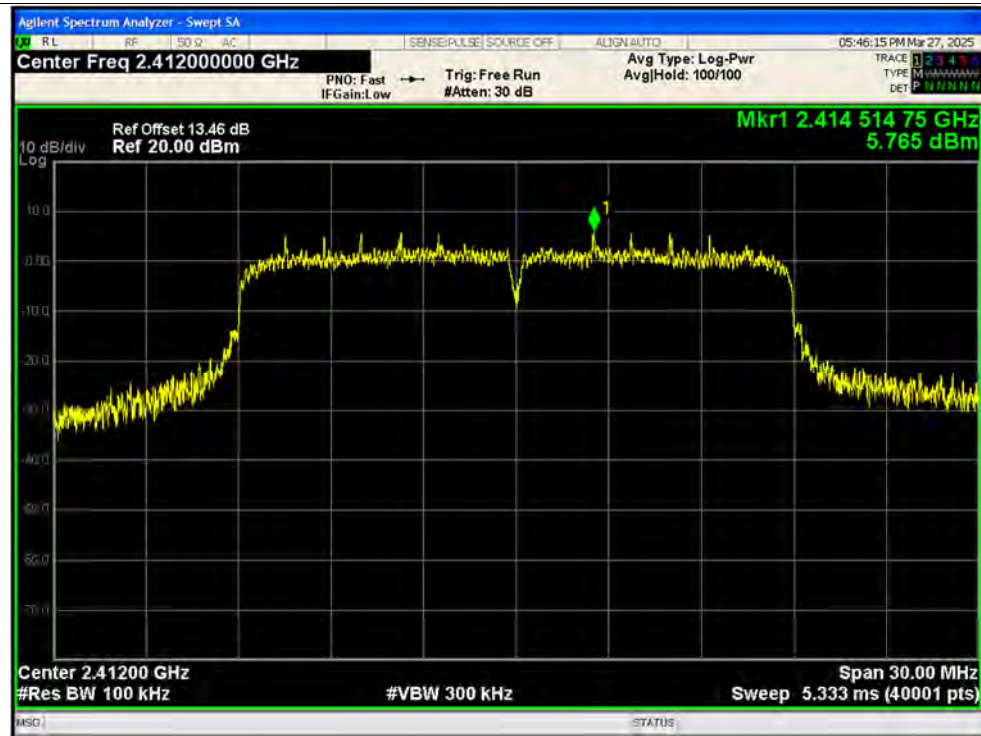
Tx. Spurious NVNT g 2462MHz Ant1 Ref



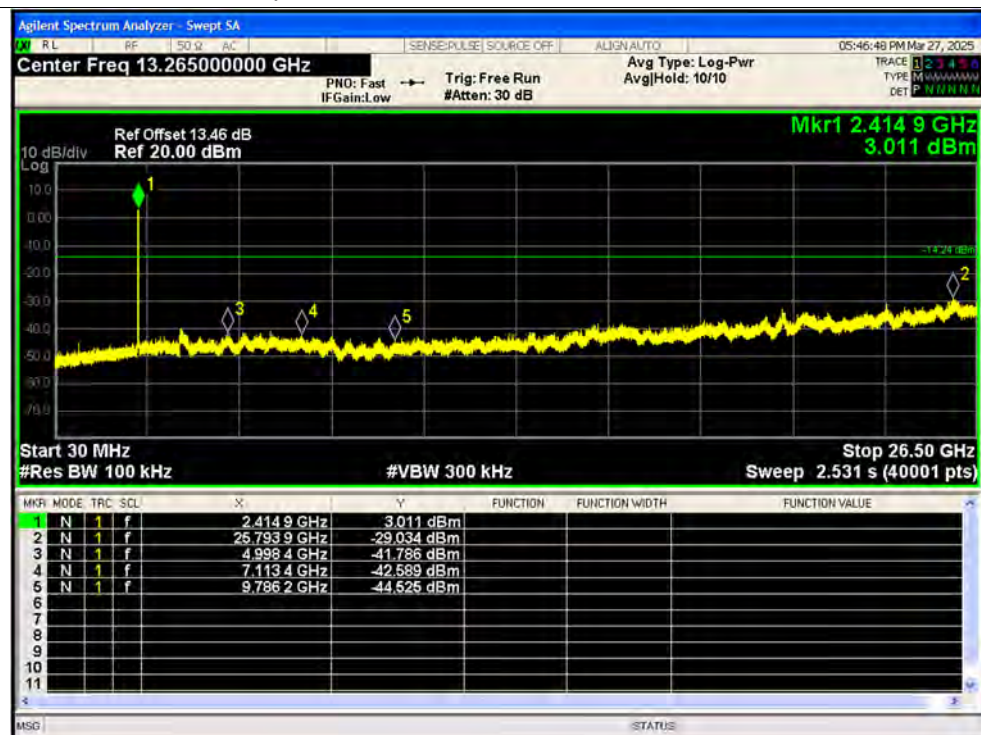
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



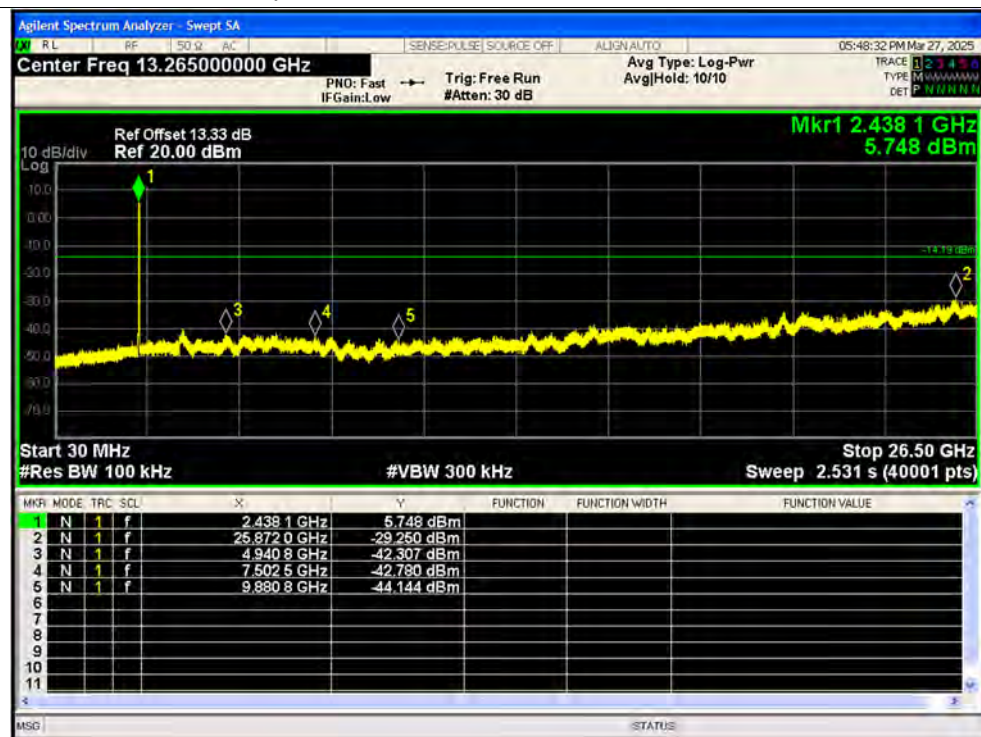
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



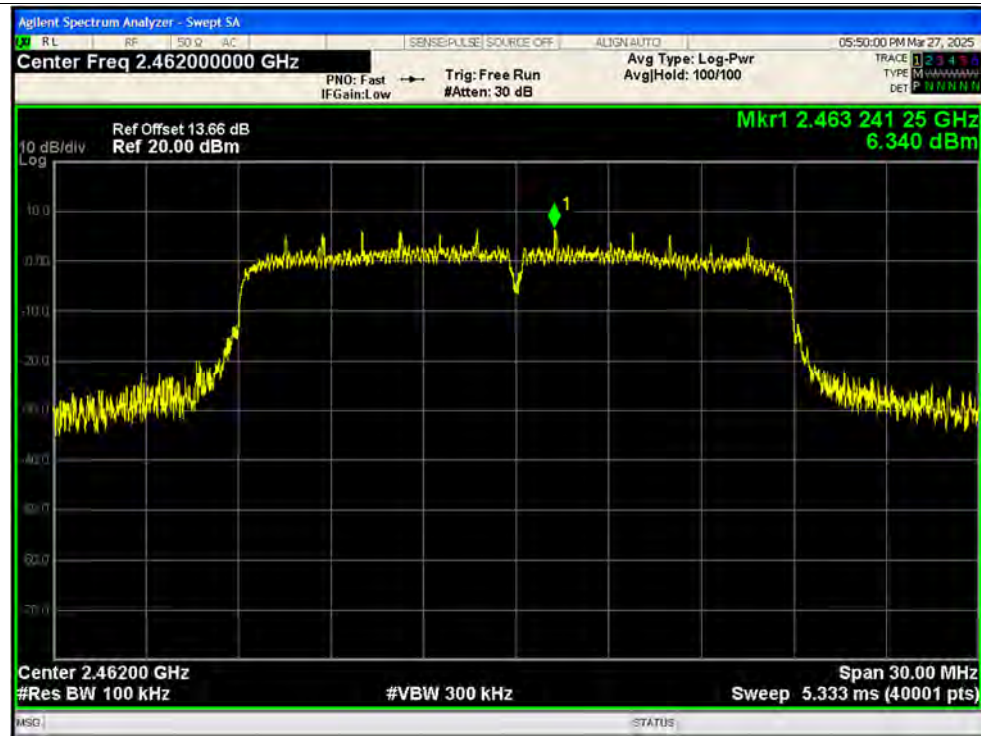
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



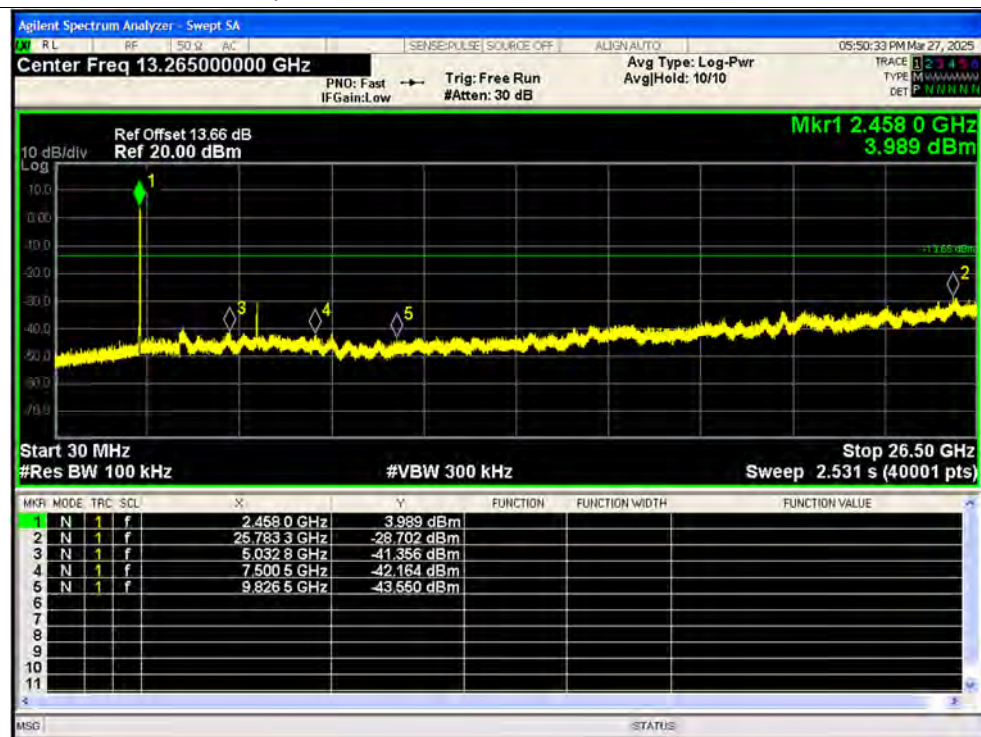
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



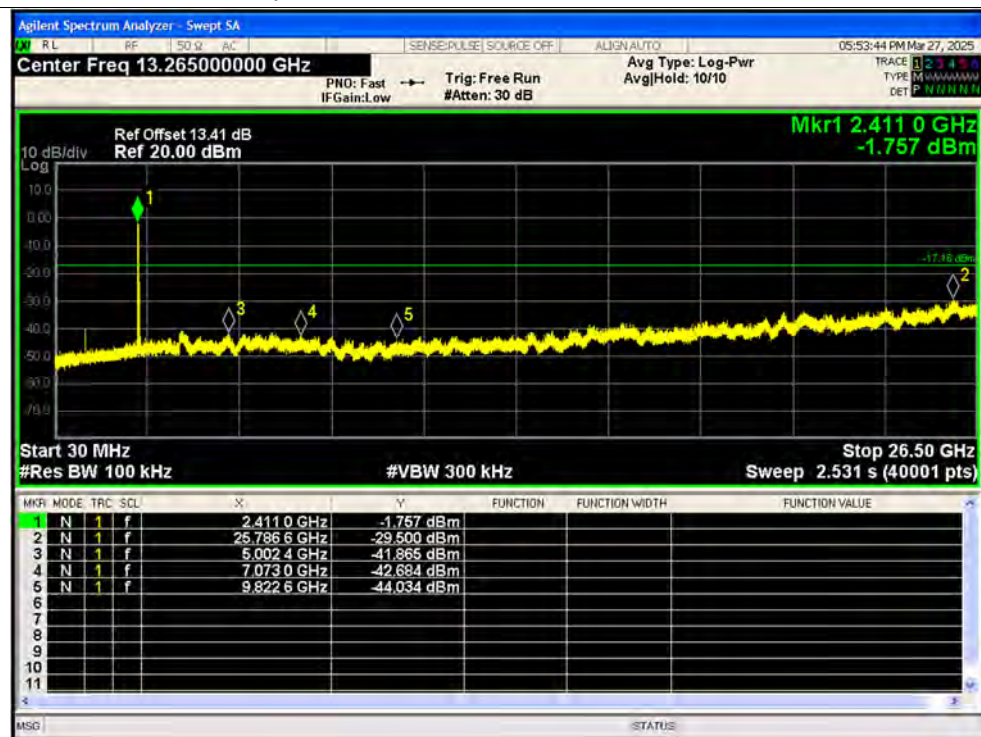
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



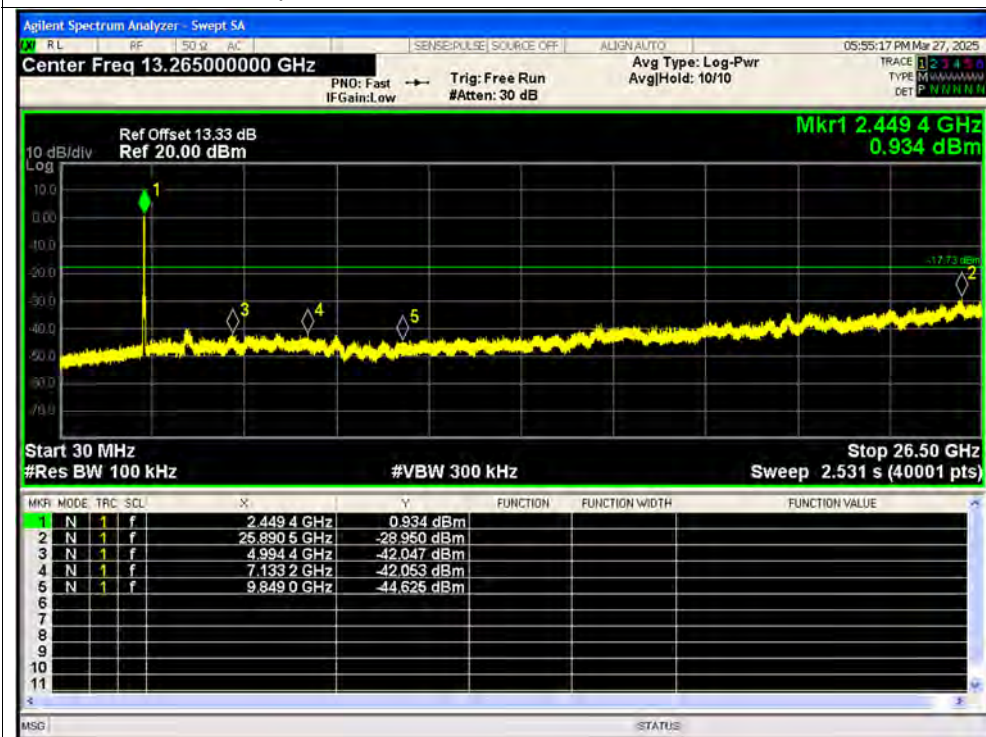
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



Tx. Spurious NVNT n40 2437MHz Ant1 Ref



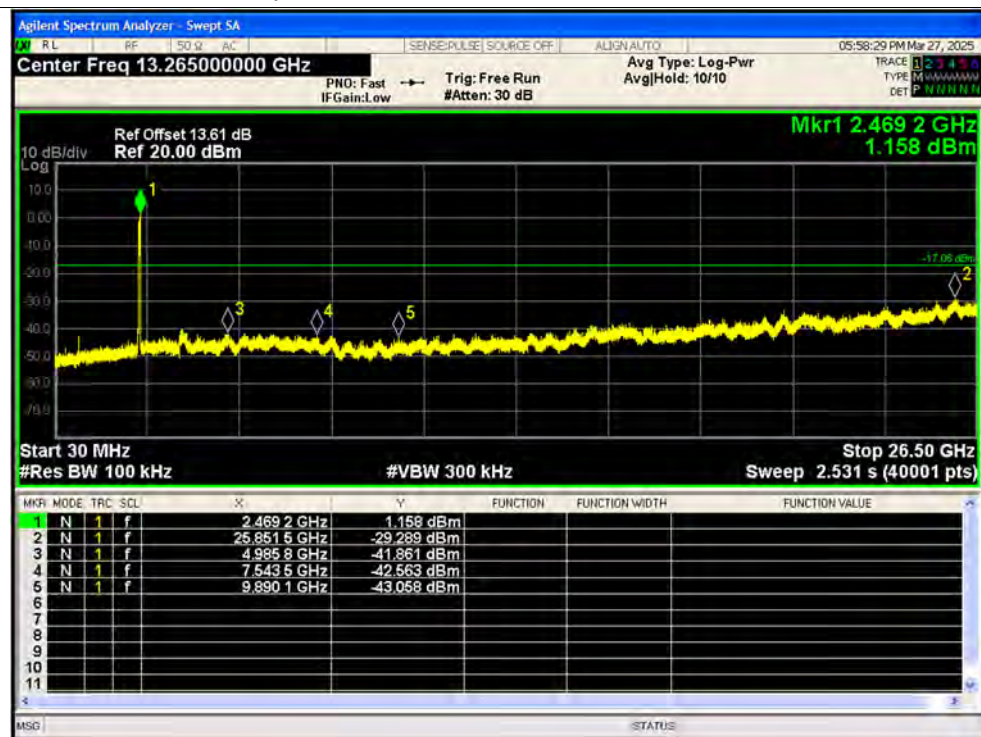
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



**A.6. Band Edge**

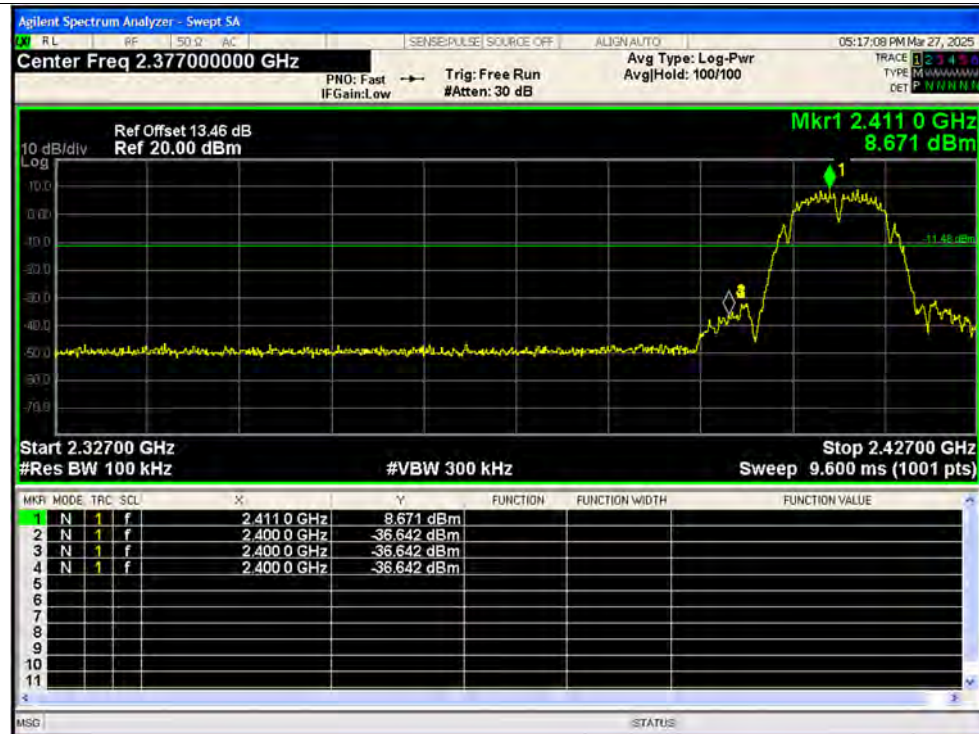
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.16	-20	Pass
NVNT	b	2462	Ant1	-54.82	-20	Pass
NVNT	g	2412	Ant1	-31.11	-20	Pass
NVNT	g	2462	Ant1	-45.91	-20	Pass
NVNT	n20	2412	Ant1	-31.79	-20	Pass
NVNT	n20	2462	Ant1	-43.73	-20	Pass
NVNT	n40	2422	Ant1	-28.9	-20	Pass
NVNT	n40	2452	Ant1	-32.15	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



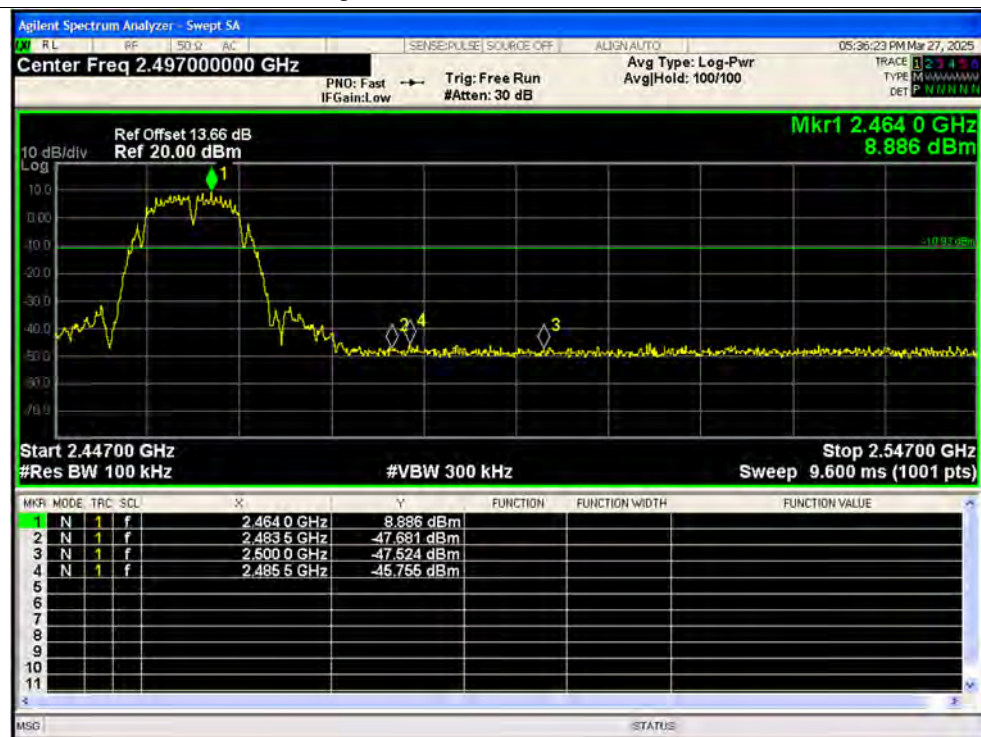
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



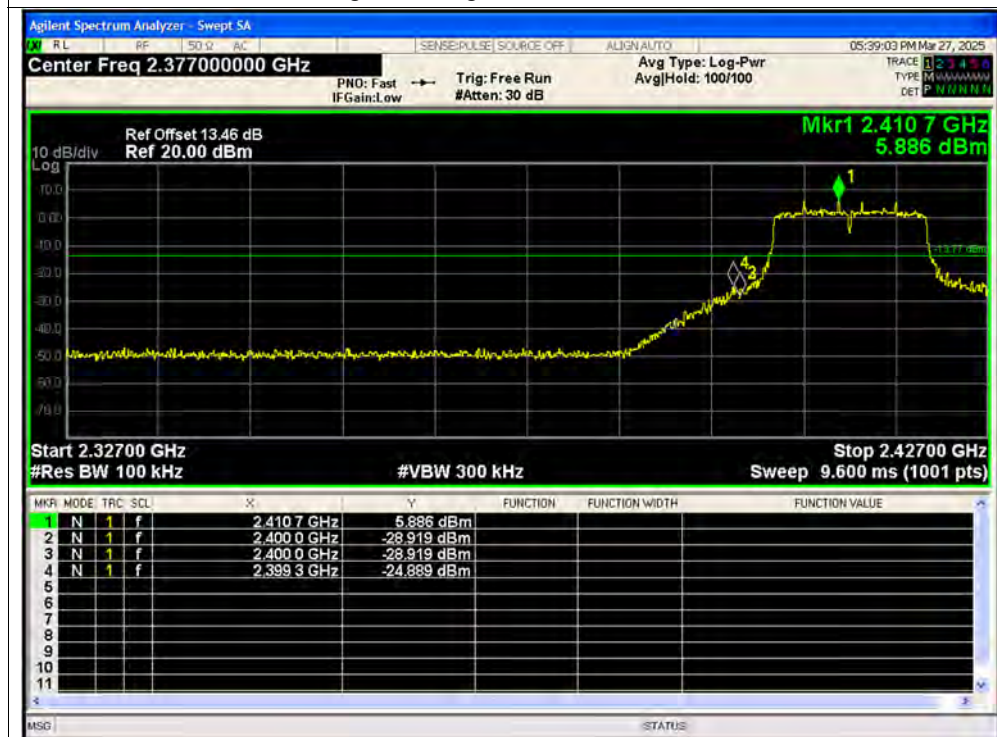
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



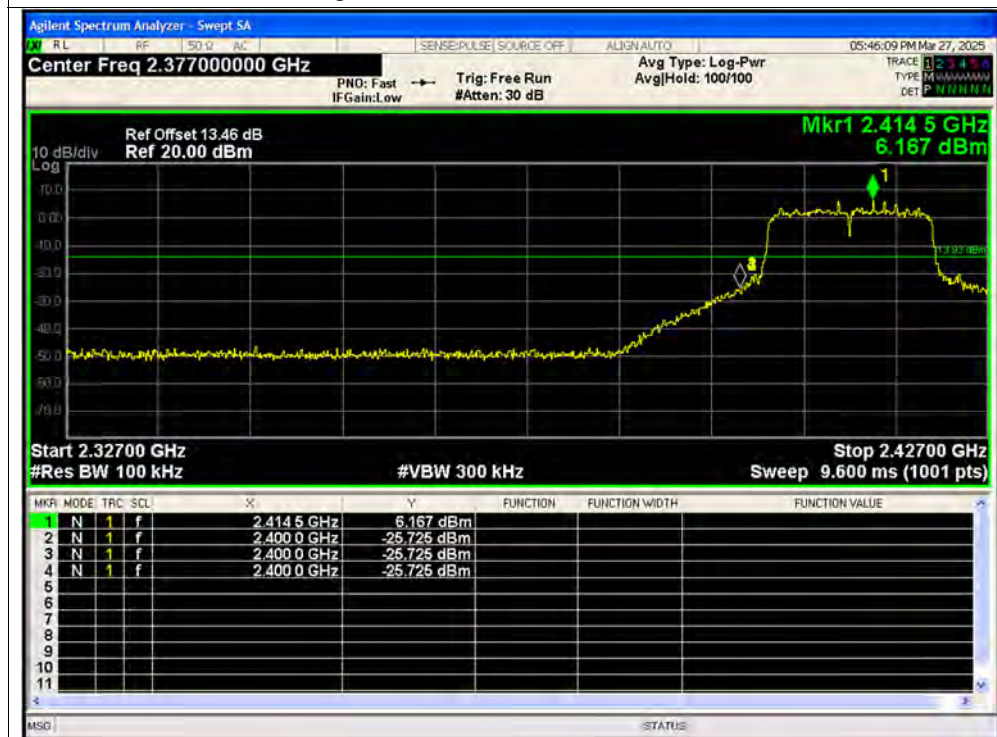
Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



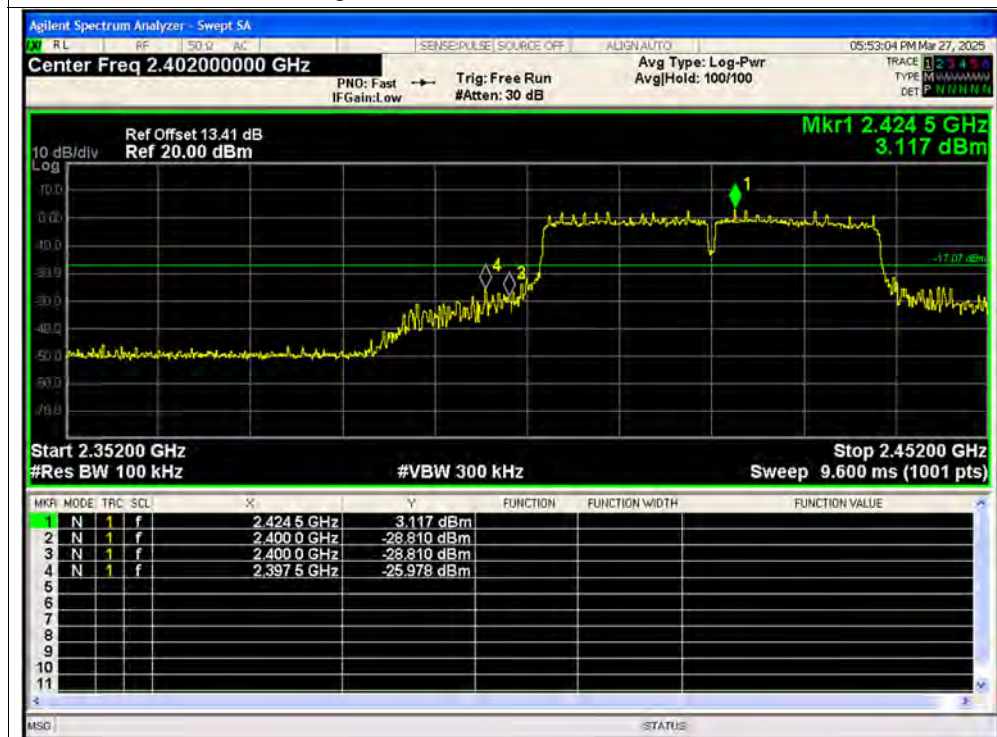
Band Edge NVNT n20 2462MHz Ant1 Emission



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	-5.38	0	-5.38	8	Pass
NVNT	b	2437	Ant1	-5.66	0	-5.66	8	Pass
NVNT	b	2462	Ant1	-4.68	0	-4.68	8	Pass
NVNT	g	2412	Ant1	-8.51	0	-8.51	8	Pass
NVNT	g	2437	Ant1	-8.85	0	-8.85	8	Pass
NVNT	g	2462	Ant1	-8.32	0	-8.32	8	Pass
NVNT	n20	2412	Ant1	-8.25	0	-8.25	8	Pass
NVNT	n20	2437	Ant1	-8.3	0	-8.3	8	Pass
NVNT	n20	2462	Ant1	-7.79	0	-7.79	8	Pass
NVNT	n40	2422	Ant1	-11.8	0	-11.8	8	Pass
NVNT	n40	2437	Ant1	-12.67	0	-12.67	8	Pass
NVNT	n40	2452	Ant1	-12.32	0	-12.32	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



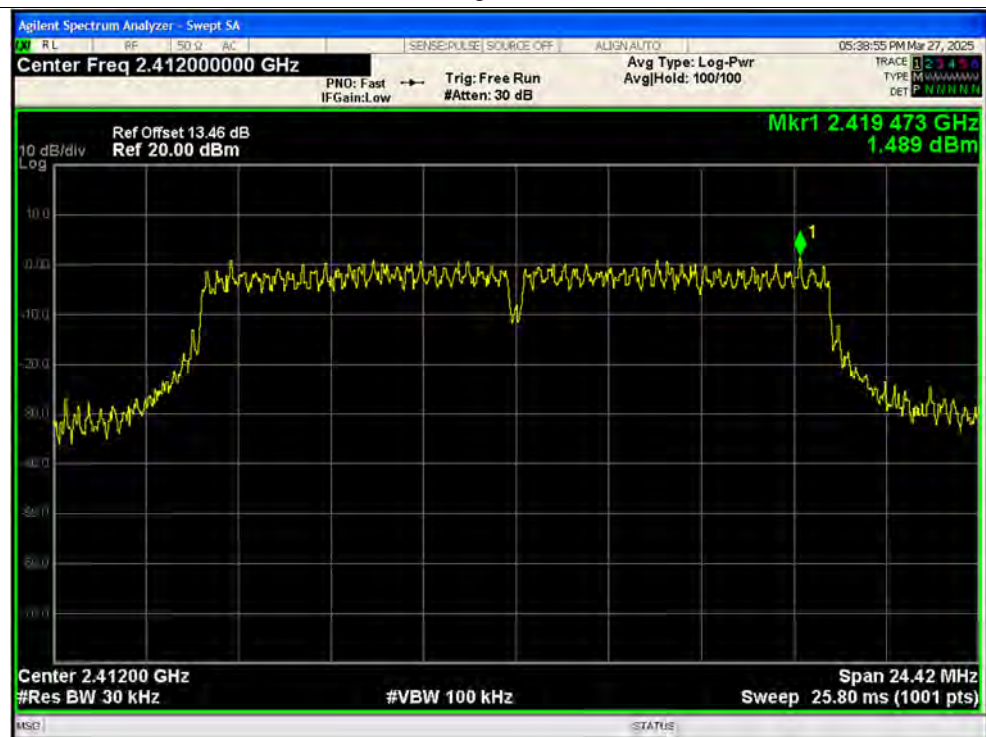
PSD NVNT b 2437MHz Ant1



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+Adapter+Data cable+Earphone+WIFI TX

Test voltage: AC 120V/60Hz

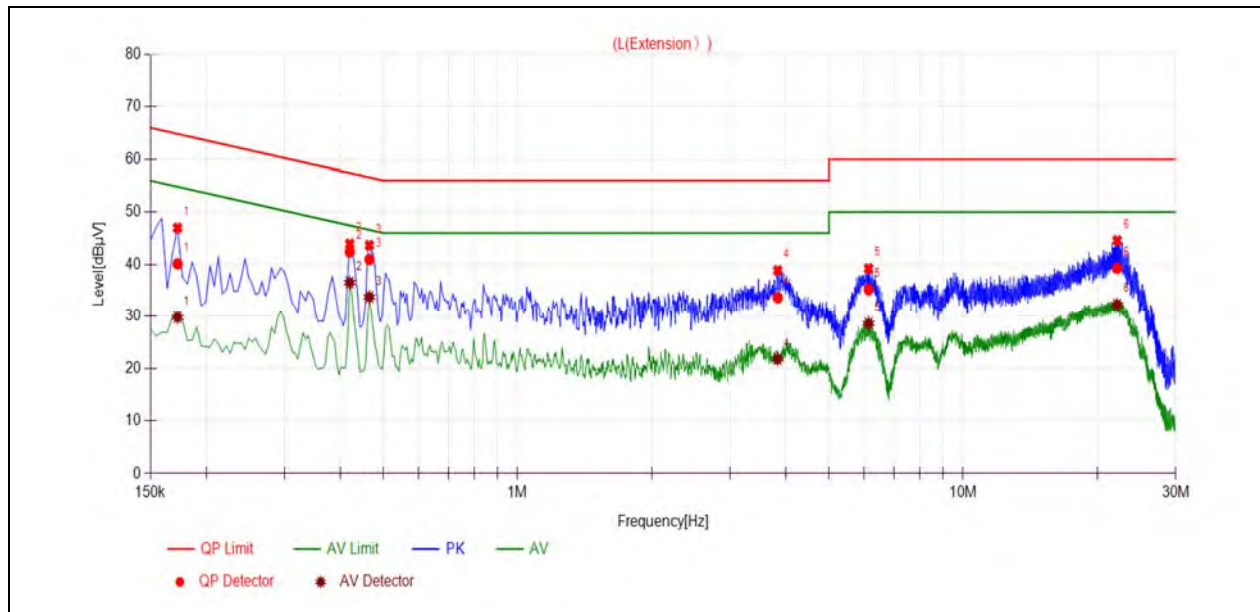
The measurement results are obtained as below:

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

U_R : Receiver Reading

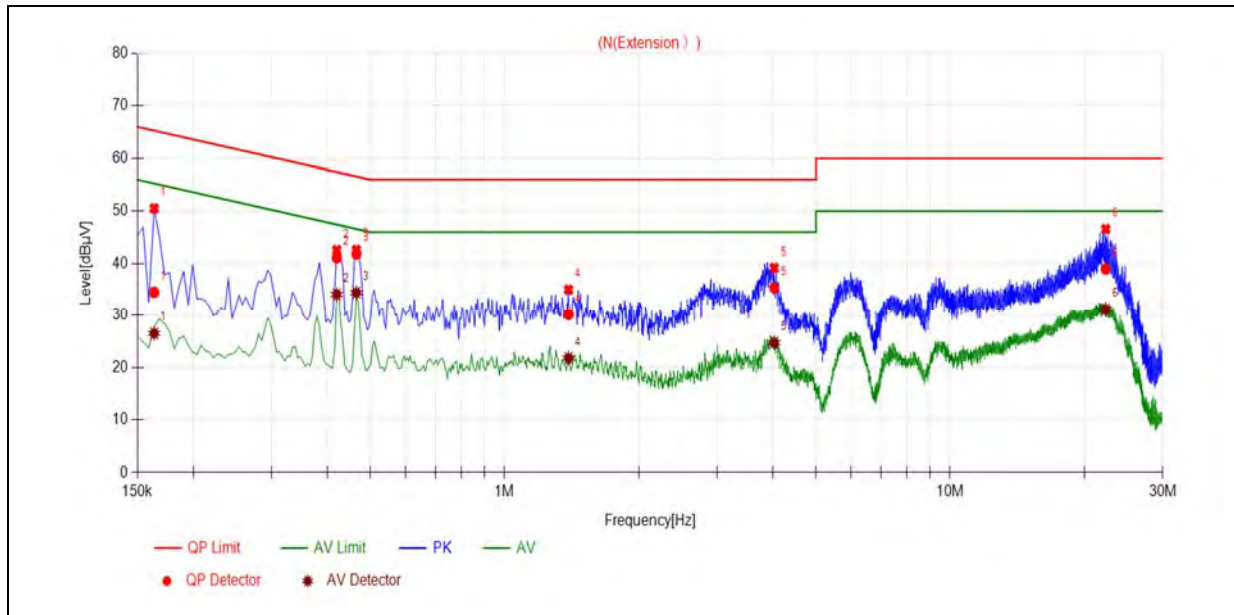
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1725	40.12	29.81	64.84	54.84	Line	PASS
2	0.4200	42.42	36.53	57.45	47.45		PASS
3	0.4650	40.96	33.77	56.60	46.60		PASS
4	3.8355	33.65	21.76	56.00	46.00		PASS
5	6.1354	35.19	28.62	60.00	50.00		PASS
6	22.1665	39.31	32.31	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	0.1635	34.51	26.49	65.28	55.28	Neutral	PASS
2	0.4200	41.13	34.09	57.45	47.45		PASS
3	0.4650	41.83	34.42	56.60	46.60		PASS
4	1.3919	30.15	21.75	56.00	46.00		PASS
5	4.0294	35.36	24.73	56.00	46.00		PASS
6	22.3451	38.97	31.18	60.00	50.00		PASS

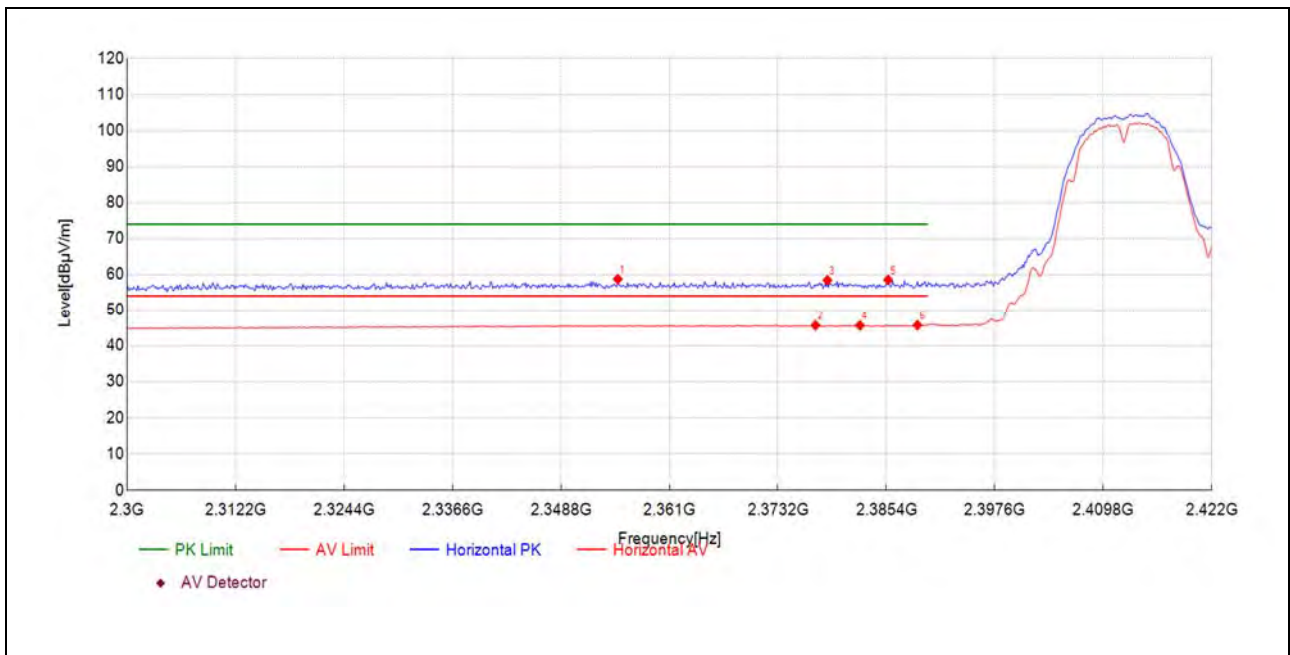
A.9. Restricted Frequency Bands

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.

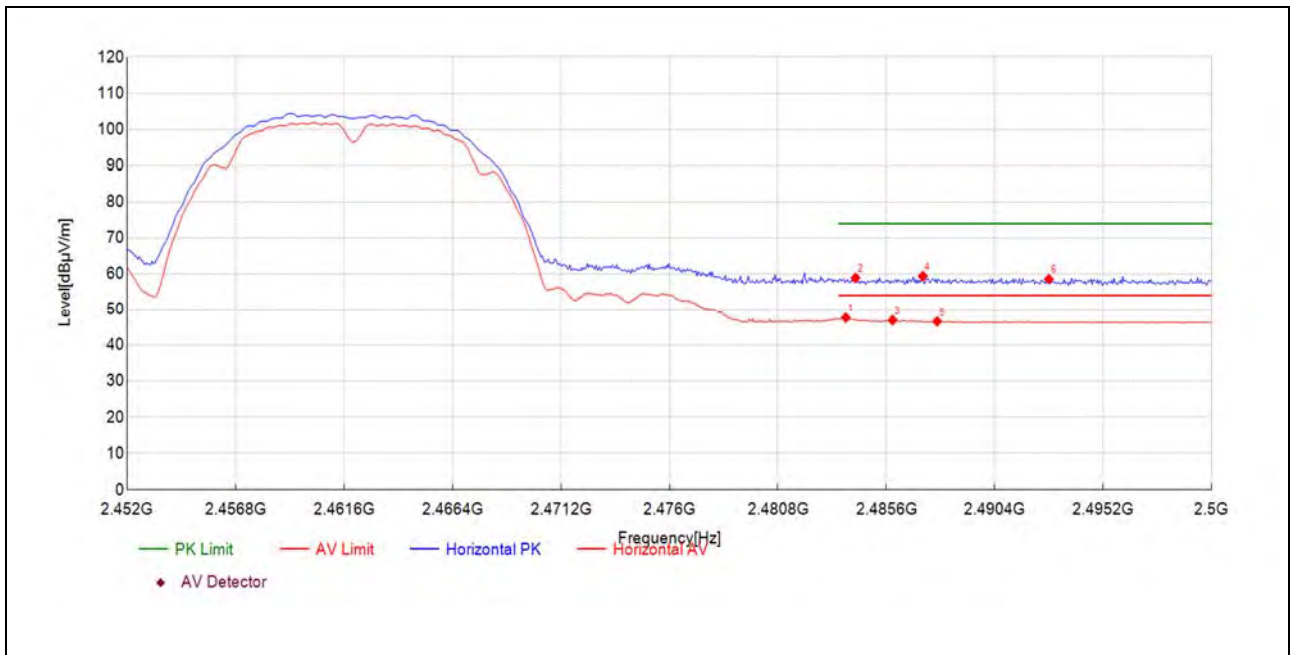
802.11b Mode

Plot for Channel 1



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2355.20	21.3	58.77	37.460	74.00	15.23	150	301	PK	PASS
2377.43	8.2	45.68	37.480	54.00	8.32	150	143	AV	PASS
2378.77	21.0	58.44	37.480	74.00	15.56	150	31	PK	PASS
2382.43	8.2	45.65	37.480	54.00	8.35	150	71	AV	PASS
2385.61	21.1	58.55	37.490	74.00	15.45	150	210	PK	PASS
2388.90	8.2	45.73	37.490	54.00	8.27	150	246	AV	PASS

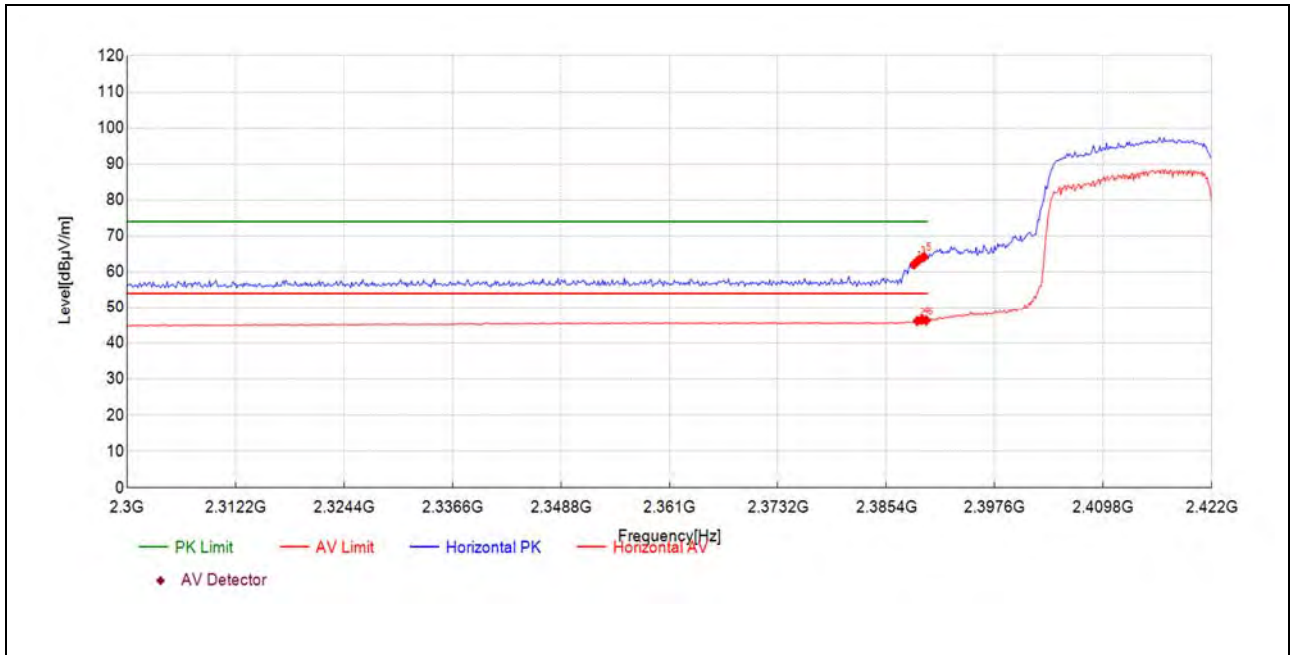
Plot for Channel 11



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.81	9.4	47.67	38.270	54.00	6.33	150	233	AV	PASS
2484.24	20.7	58.94	38.270	74.00	15.06	150	242	PK	PASS
2485.87	8.7	46.98	38.270	54.00	7.02	150	238	AV	PASS
2487.22	21.2	59.42	38.270	74.00	14.58	150	120	PK	PASS
2487.84	8.3	46.61	38.270	54.00	7.39	150	20	AV	PASS
2492.79	20.3	58.59	38.260	74.00	15.41	150	160	PK	PASS

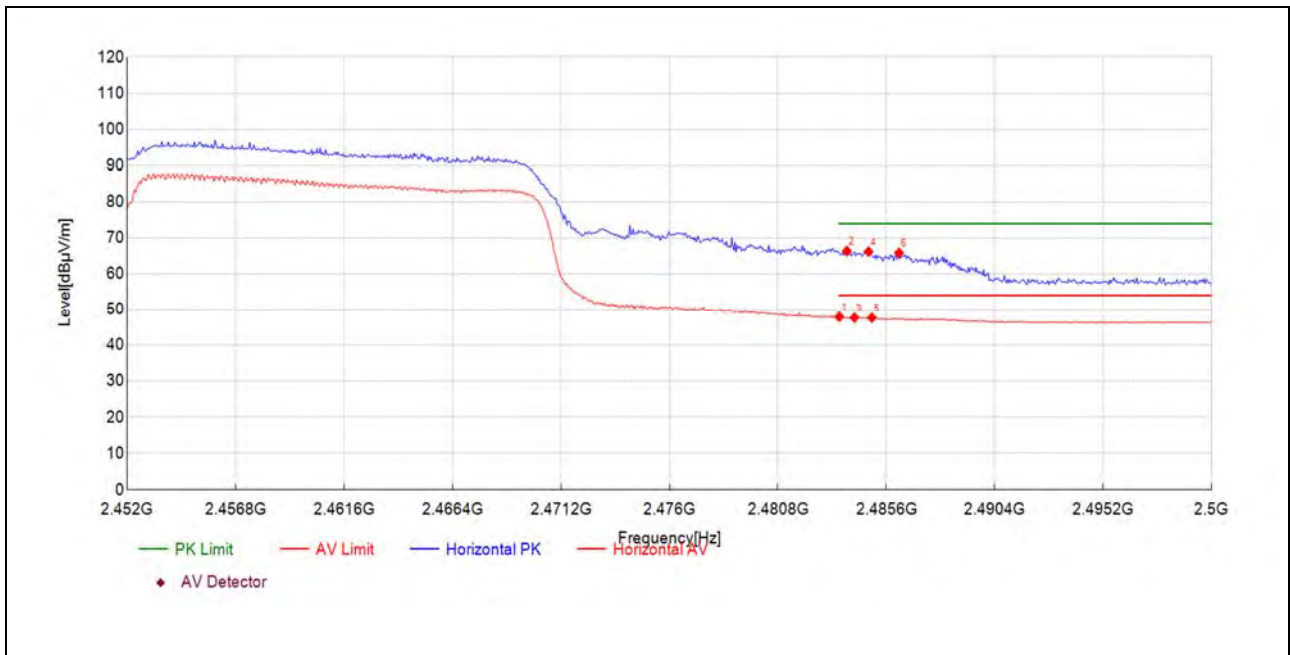
**802.11n (HT40) Mode**

Plot for Channel 3



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2388.54	24.7	62.15	37.490	74.00	11.85	150	8	PK	PASS
2388.90	8.6	46.13	37.490	54.00	7.87	150	355	AV	PASS
2389.03	25.8	63.27	37.490	74.00	10.73	150	8	PK	PASS
2389.39	9.0	46.44	37.490	54.00	7.56	150	224	AV	PASS
2389.64	26.7	64.18	37.490	74.00	9.82	150	310	PK	PASS
2389.88	8.8	46.30	37.490	54.00	7.70	150	13	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
2483.52	9.7	47.93	38.280	54.00	6.07	150	9	AV	PASS
2483.86	28.1	66.37	38.270	74.00	7.63	150	243	PK	PASS
2484.19	9.4	47.66	38.270	54.00	6.34	150	234	AV	PASS
2484.82	27.9	66.21	38.270	74.00	7.79	150	239	PK	PASS
2484.96	9.4	47.65	38.270	54.00	6.35	150	234	AV	PASS
2486.16	27.6	65.88	38.280	74.00	8.12	150	234	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 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.

Field strength of fundamental:

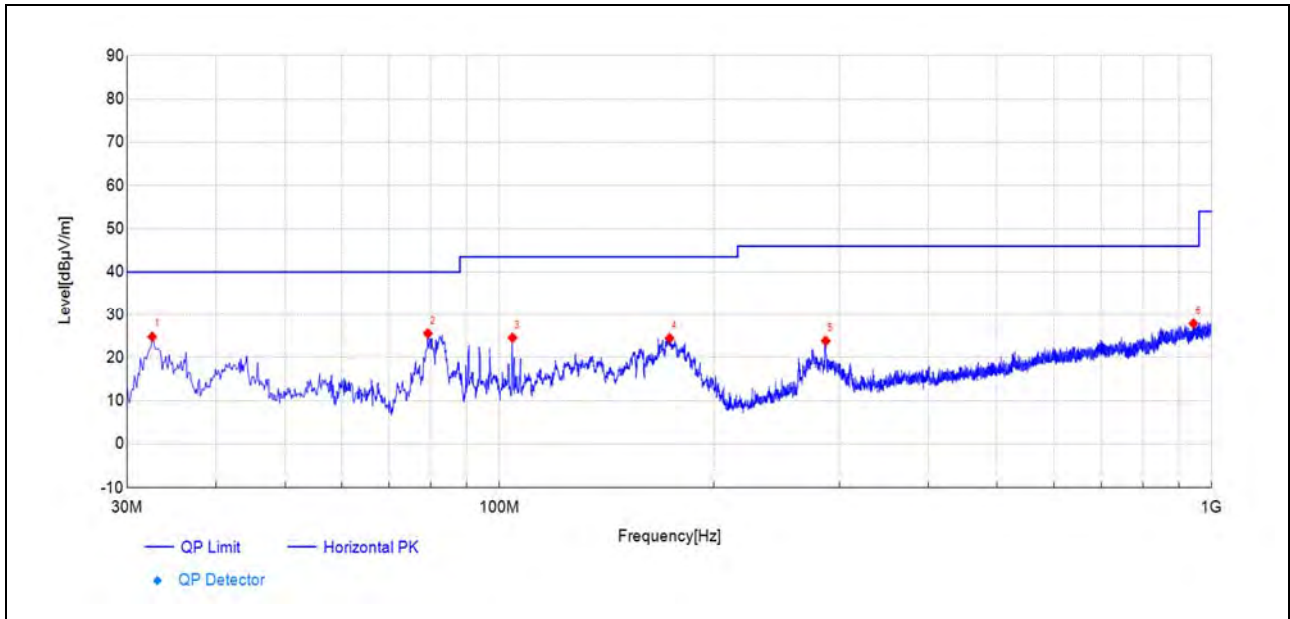
Frequency [MHz]	Reading [dB μ V]	Level [dB μ V/m]	Factor [dB/m]	Detector	Antenna Polarity
2414.67	66.9	104.66	37.750	PK	Horizontal

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



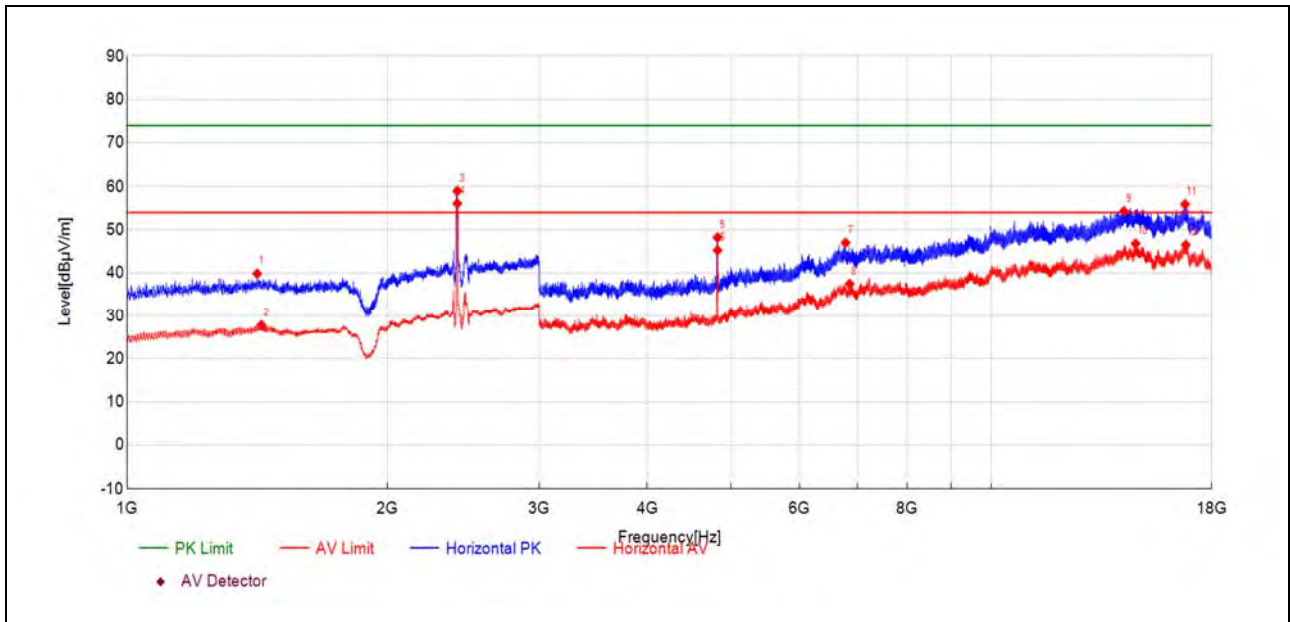
802.11b Mode

Plot for Channel 1



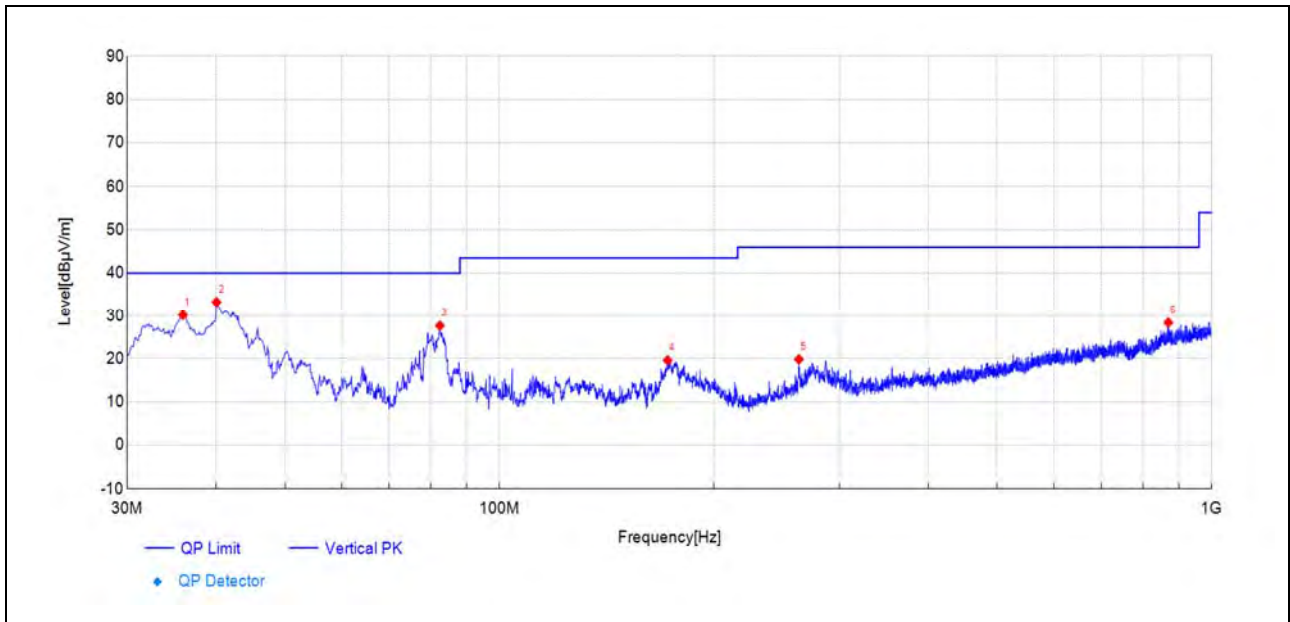
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
32.55	55.3	24.79	-30.470	40.00	15.21	150	219	PK	PASS
79.35	58.3	25.56	-32.740	40.00	14.44	150	273	PK	PASS
104.33	54.1	24.56	-29.510	43.50	18.94	150	63	PK	PASS
173.32	55.3	24.44	-30.810	43.50	19.06	150	259	PK	PASS
287.17	50.2	23.84	-26.350	46.00	22.16	150	236	PK	PASS
942.65	39.3	27.85	-11.470	46.00	18.15	150	295	PK	PASS



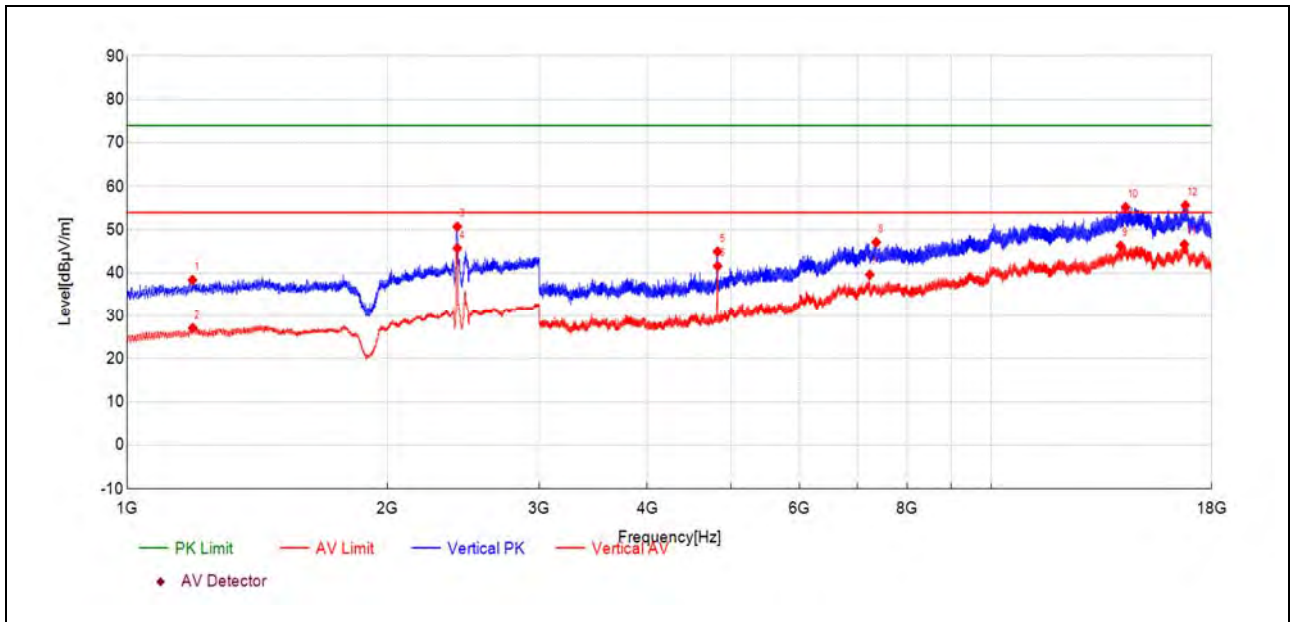
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1414.76	39.9	39.85	-0.080	74.00	34.15	150	291	PK	PASS
1430.76	27.8	27.80	0.050	54.00	26.20	150	27	AV	PASS
2410.98	53.6	59.00	5.380	-	-	150	235	PK	N/A
2411.42	50.7	56.09	5.390	-	-	150	235	AV	N/A
4824.06	53.2	48.23	-5.000	74.00	25.77	150	59	PK	PASS
4824.56	50.3	45.27	-4.990	54.00	8.73	150	46	AV	PASS
6785.63	43.2	47.01	3.850	74.00	26.99	150	109	PK	PASS
6858.63	33.4	37.47	4.030	54.00	16.53	150	9	AV	PASS
14244.87	35.4	54.32	18.960	74.00	19.68	150	234	PK	PASS
14694.89	26.2	46.82	20.580	54.00	7.18	150	260	AV	PASS
16763.96	36.1	55.91	19.830	74.00	18.09	150	323	PK	PASS
16796.46	26.5	46.51	20.010	54.00	7.49	150	158	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
35.94	59.8	30.17	-29.610	40.00	9.83	150	351	PK	PASS
40.06	61.9	33.25	-28.630	40.00	6.75	150	14	PK	PASS
82.50	59.4	27.64	-31.750	40.00	12.36	150	351	PK	PASS
172.23	50.2	19.59	-30.640	43.50	23.91	150	170	PK	PASS
263.29	47.5	19.83	-27.630	46.00	26.17	150	120	PK	PASS
869.17	40.8	28.36	-12.410	46.00	17.64	150	351	PK	PASS

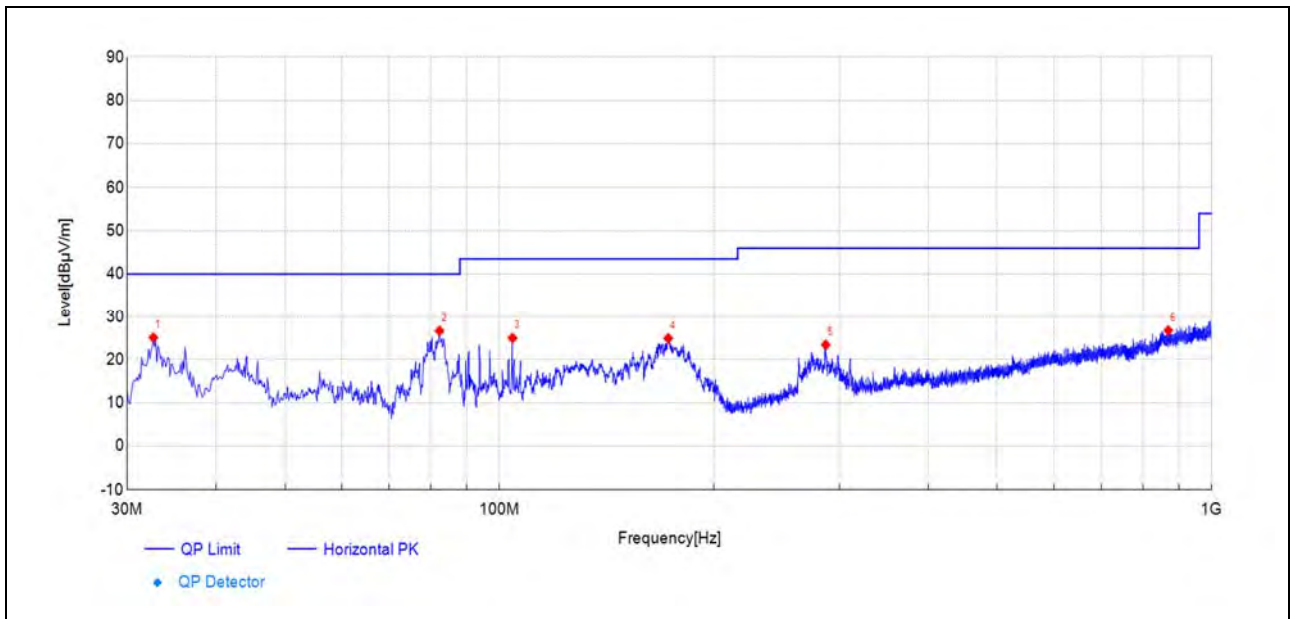


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1190.71	39.7	38.40	-1.250	74.00	35.60	150	285	PK	PASS
1191.15	28.3	27.09	-1.250	54.00	26.91	150	121	AV	PASS
2410.98	45.4	50.76	5.380	-	-	150	1	PK	N/A
2411.42	40.4	45.75	5.390	-	-	150	1	AV	N/A
4824.06	50.0	44.98	-5.000	74.00	29.02	150	84	PK	PASS
4824.56	46.6	41.62	-4.990	54.00	12.38	150	46	AV	PASS
7237.64	35.1	39.65	4.550	54.00	14.35	150	22	AV	PASS
7362.65	42.6	47.15	4.580	74.00	26.85	150	197	PK	PASS
14113.87	27.1	46.32	19.210	54.00	7.68	150	223	AV	PASS
14307.88	35.7	55.25	19.550	74.00	18.75	150	223	PK	PASS
16732.46	27.0	46.64	19.650	54.00	7.36	150	310	AV	PASS
16778.96	35.8	55.70	19.920	74.00	18.30	150	310	PK	PASS

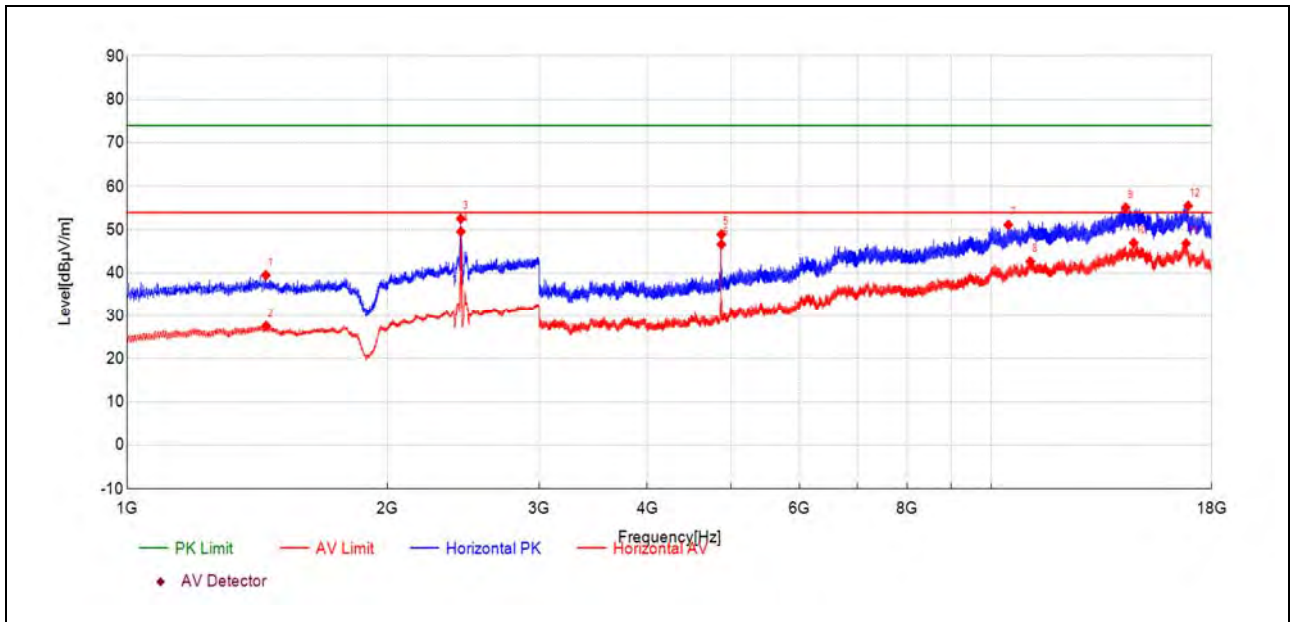


Plot for Channel 6



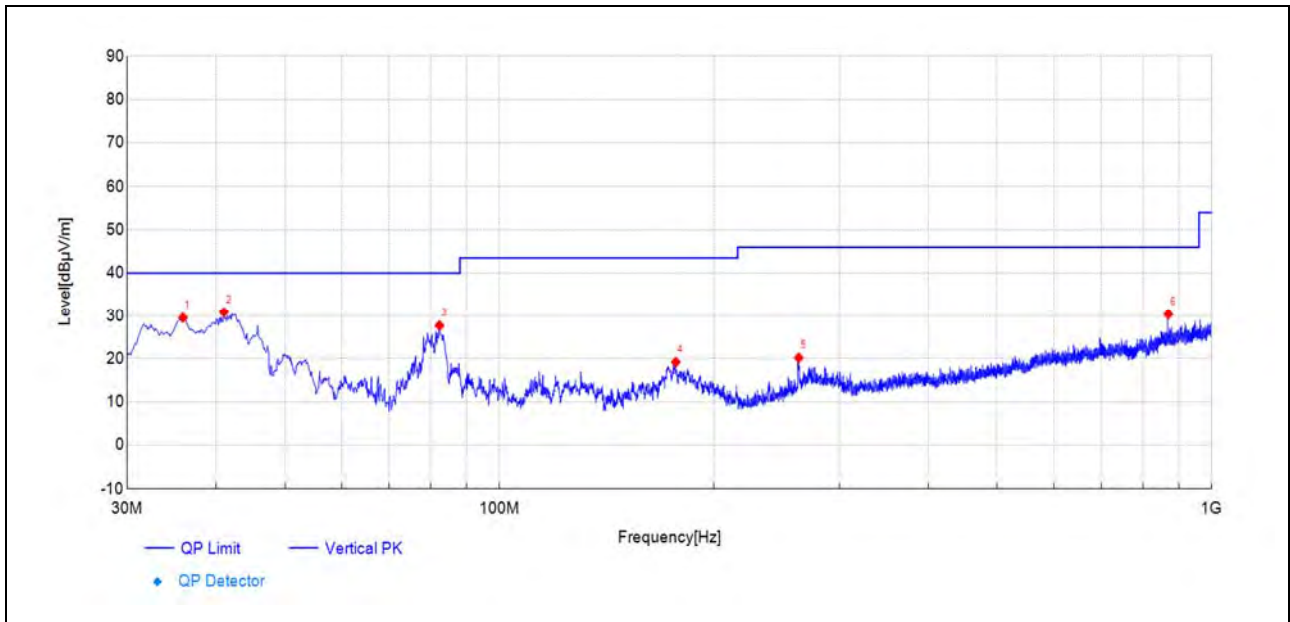
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
32.67	55.6	25.08	-30.470	40.00	14.92	150	14	PK	PASS
82.38	58.4	26.65	-31.760	40.00	13.35	150	100	PK	PASS
104.33	54.5	24.99	-29.510	43.50	18.51	150	315	PK	PASS
172.59	55.7	24.92	-30.780	43.50	18.58	150	230	PK	PASS
287.17	49.8	23.41	-26.350	46.00	22.59	150	252	PK	PASS
869.05	39.2	26.73	-12.430	46.00	19.27	150	351	PK	PASS



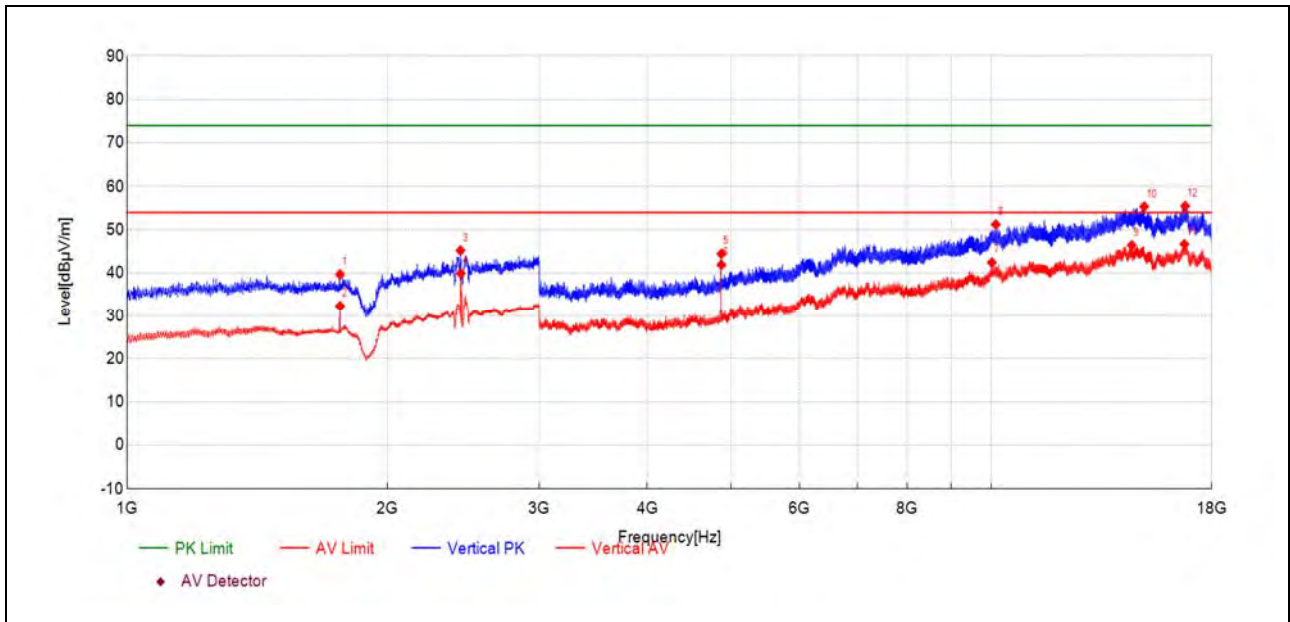
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1447.66	39.3	39.52	0.200	74.00	34.48	150	289	PK	PASS
1448.99	27.4	27.57	0.210	54.00	26.43	150	59	AV	PASS
2433.65	46.9	52.59	5.720	-	-	150	322	PK	N/A
2434.10	43.9	49.60	5.730	-	-	150	322	AV	N/A
4874.06	53.9	48.95	-4.960	74.00	25.05	150	36	PK	PASS
4874.56	51.6	46.65	-4.970	54.00	7.35	150	36	AV	PASS
10469.75	39.5	51.16	11.670	74.00	22.84	150	62	PK	PASS
11099.77	28.6	42.69	14.080	54.00	11.31	150	150	AV	PASS
14310.88	35.6	55.15	19.520	74.00	18.85	150	225	PK	PASS
14619.89	26.6	47.02	20.390	54.00	6.98	150	112	AV	PASS
16809.46	26.8	46.85	20.070	54.00	7.15	150	263	AV	PASS
16905.46	35.3	55.59	20.290	74.00	18.41	150	62	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
35.94	59.1	29.52	-29.610	40.00	10.48	150	22	PK	PASS
41.03	59.8	30.82	-28.970	40.00	9.18	150	9	PK	PASS
82.38	59.5	27.69	-31.760	40.00	12.31	150	45	PK	PASS
176.83	49.7	19.20	-30.470	43.50	24.30	150	179	PK	PASS
263.16	47.8	20.19	-27.640	46.00	25.81	150	179	PK	PASS
869.05	42.8	30.33	-12.430	46.00	15.67	150	273	PK	PASS

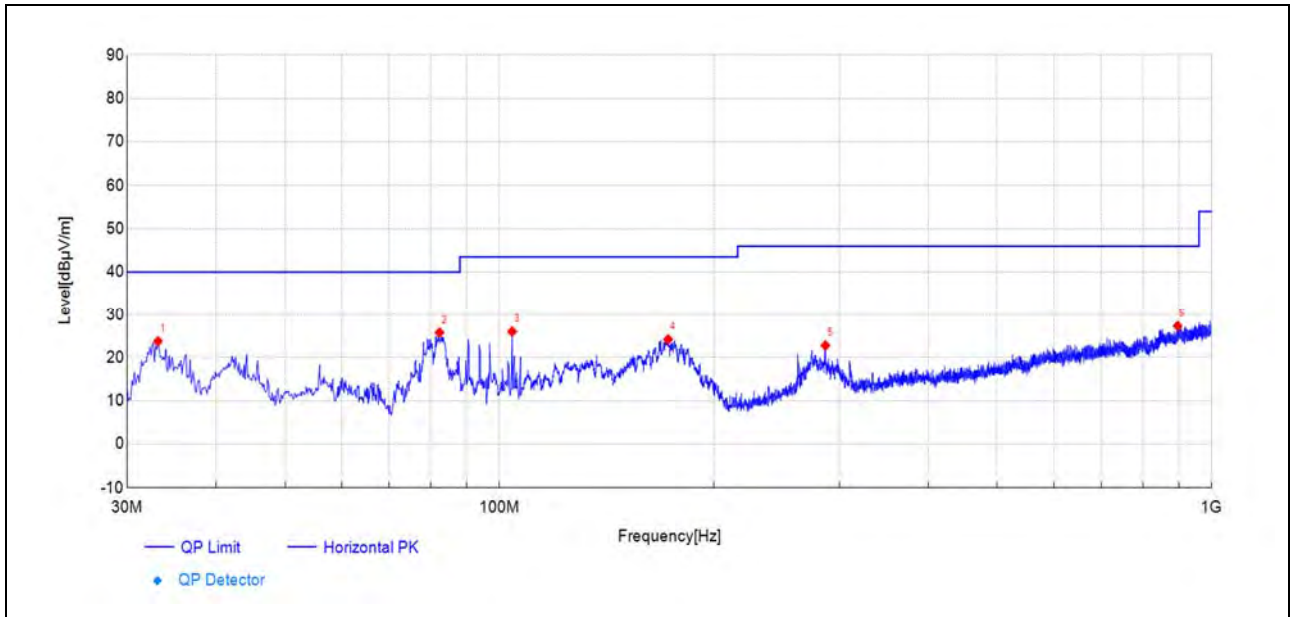


(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1763.73	38.9	39.70	0.770	74.00	34.30	150	47	PK	PASS
1764.17	31.6	32.34	0.770	54.00	21.66	150	47	AV	PASS
2432.32	39.5	45.23	5.700	-	-	150	47	PK	N/A
2433.65	34.2	39.92	5.720	-	-	150	47	AV	N/A
4874.06	49.4	44.47	-4.960	74.00	29.53	150	39	PK	PASS
4874.56	46.9	41.93	-4.970	54.00	12.07	150	52	AV	PASS
10020.23	31.8	42.45	10.610	54.00	11.55	150	202	AV	PASS
10125.74	40.5	51.25	10.780	74.00	22.75	150	102	PK	PASS
14543.88	26.4	46.44	20.030	54.00	7.56	150	202	AV	PASS
15039.40	36.3	55.39	19.120	74.00	18.61	150	76	PK	PASS
16735.96	27.0	46.69	19.670	54.00	7.31	150	90	AV	PASS
16767.46	35.7	55.53	19.850	74.00	18.47	150	277	PK	PASS

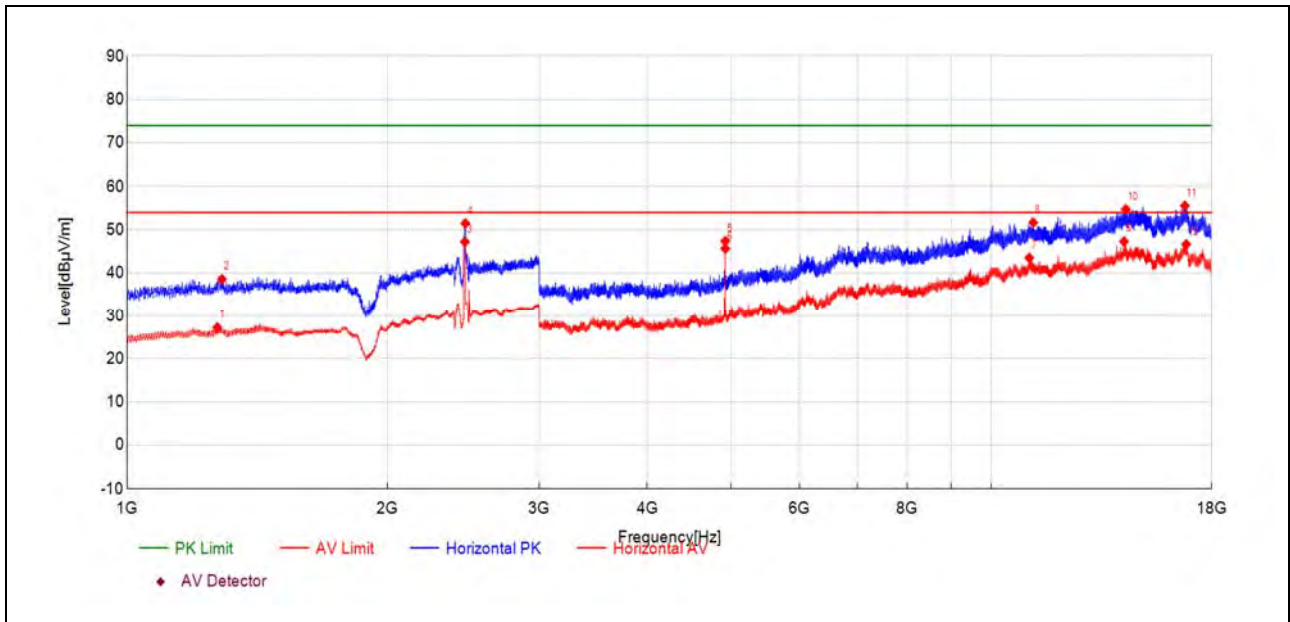


Plot for Channel 11



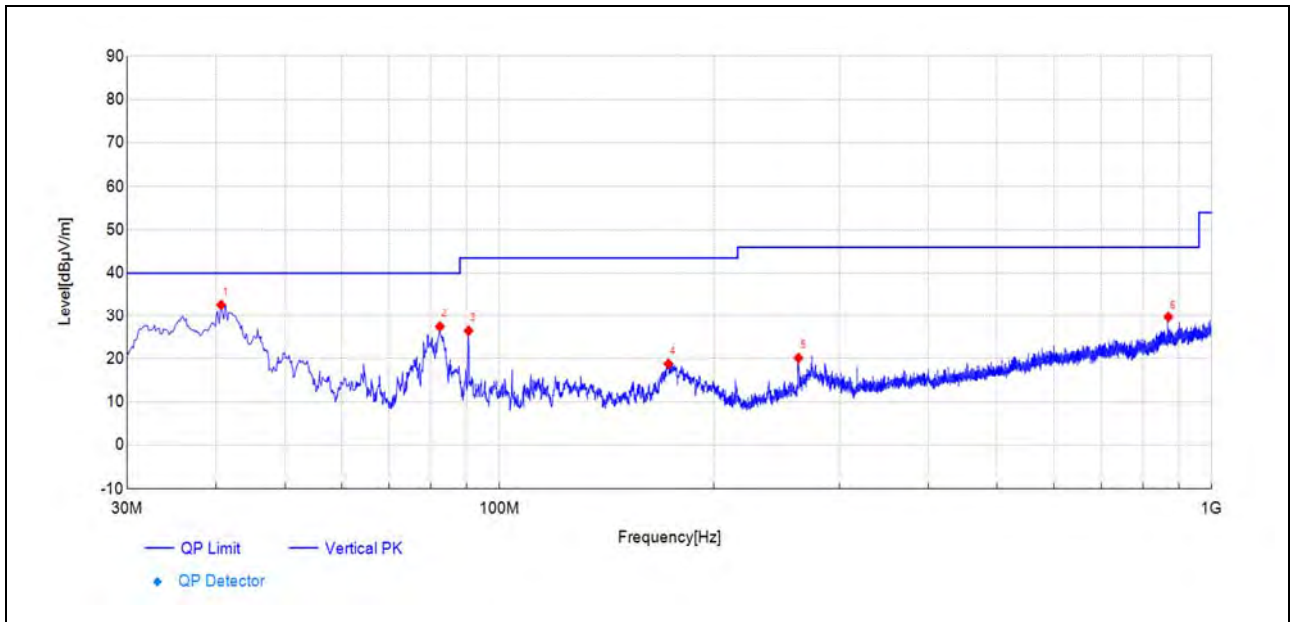
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
33.15	54.1	23.75	-30.370	40.00	16.25	150	158	PK	PASS
82.38	57.5	25.78	-31.760	40.00	14.22	150	118	PK	PASS
104.21	55.6	26.02	-29.570	43.50	17.48	150	230	PK	PASS
172.47	54.9	24.19	-30.730	43.50	19.31	150	230	PK	PASS
286.81	49.1	22.80	-26.330	46.00	23.20	150	216	PK	PASS
895.73	39.5	27.31	-12.200	46.00	18.69	150	324	PK	PASS



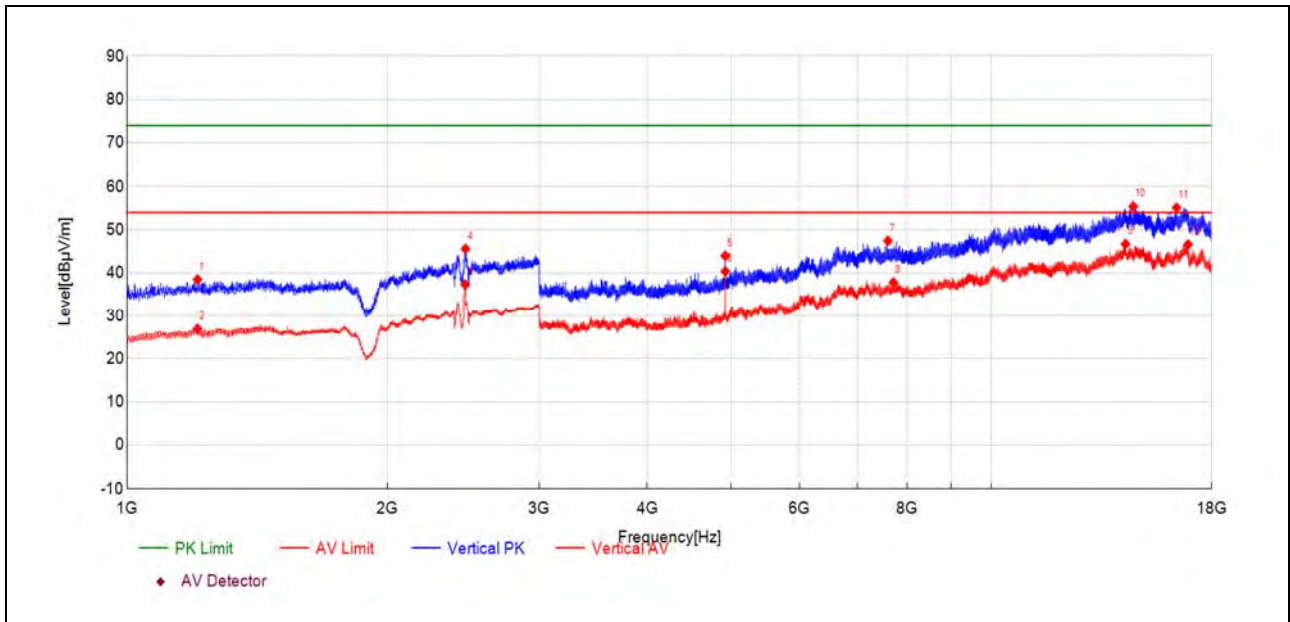
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1272.06	28.5	27.23	-1.240	54.00	26.77	150	258	AV	PASS
1287.62	39.7	38.58	-1.100	74.00	35.42	150	96	PK	PASS
2460.77	41.3	47.26	5.950	-	-	150	74	AV	N/A
2463.44	45.6	51.52	5.940	-	-	150	74	PK	N/A
4923.56	52.4	47.40	-4.980	74.00	26.60	150	36	PK	PASS
4924.56	50.6	45.65	-4.980	54.00	8.35	150	50	AV	PASS
11072.27	29.8	43.52	13.720	54.00	10.48	150	224	AV	PASS
11186.27	38.1	51.68	13.560	74.00	22.32	150	136	PK	PASS
14247.37	28.3	47.34	19.000	54.00	6.66	150	12	AV	PASS
14318.38	35.3	54.77	19.450	74.00	19.23	150	136	PK	PASS
16755.96	35.8	55.59	19.780	74.00	18.41	150	224	PK	PASS
16813.46	26.6	46.68	20.080	54.00	7.32	150	88	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
40.67	61.5	32.64	-28.860	40.00	7.36	150	46	PK	PASS
82.50	59.2	27.42	-31.750	40.00	12.58	150	351	PK	PASS
90.50	57.9	26.44	-31.460	43.50	17.06	150	28	PK	PASS
172.71	49.6	18.79	-30.820	43.50	24.71	150	172	PK	PASS
262.92	47.8	20.15	-27.680	46.00	25.85	150	105	PK	PASS
869.17	42.1	29.64	-12.410	46.00	16.36	150	10	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
1206.71	39.7	38.53	-1.140	74.00	35.47	150	37	PK	PASS
1206.71	28.1	26.92	-1.140	54.00	27.08	150	355	AV	PASS
2463.44	31.4	37.34	5.940	-	-	150	48	AV	N/A
2464.77	39.7	45.60	5.930	-	-	150	92	PK	N/A
4924.06	49.0	44.00	-4.980	74.00	30.00	150	3	PK	PASS
4924.56	45.4	40.41	-4.980	54.00	13.59	150	39	AV	PASS
7594.65	42.6	47.48	4.900	74.00	26.52	150	90	PK	PASS
7706.66	33.0	37.83	4.830	54.00	16.17	150	288	AV	PASS
14305.38	27.1	46.71	19.570	54.00	7.29	150	314	AV	PASS
14608.39	35.1	55.44	20.360	74.00	18.56	150	176	PK	PASS
16387.45	36.4	55.12	18.770	74.00	18.88	150	351	PK	PASS
16902.46	26.3	46.62	20.360	54.00	7.38	150	288	AV	PASS

END OF REPORT