



REPORT No.: SZ25090313W04

TEST REPORT

APPLICANT : DrKumo Inc.

PRODUCT NAME : Tablet

MODEL NAME : XL100

BRAND NAME : Drkumo

FCC ID : 2BP5Q-XL100

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2025.06.09

TEST DATE : 2025.06.10-2025.08.20

ISSUE DATE : 2025.08.21



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Change History		
Version	Date	Reason for change
1.0	2025-09-09	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	/
2	N/A	Duty Cycle of Test Signal	Aug. 08, 2025	Zhu Peihong	PASS	/
3	15.247(b)	Maximum Peak Conducted Output Power	Aug. 08, 2025	Zhu Peihong	PASS	/
4	15.247(b)	Maximum Average Conducted Output Power	Aug. 08, 2025	Zhu Peihong	PASS	/
5	15.247(a)	Bandwidth	Aug. 08, 2025	Zhu Peihong	PASS	/
6	15.247(d)	Conducted Spurious Emission and Band Edge	Aug. 22, 2025	Zhu Peihong	PASS	/
7	15.247(e)	Power Spectral Density	Aug. 08, 2025	Zhu Peihong	PASS	/
8	15.207	Conducted Emission	Aug. 06, 2025	Wang Yapeng	PASS	/
9	15.247(d)	Restricted Frequency Bands	Aug. 15, 2025	Gao Jianrou	PASS	/
10	15.209, 15.247(d)	Radiated Emission	Aug. 08, 2025	Gao Jianrou	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2020 and KDB 558074 D01 v05r02.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the “Remark”.

1.1. Testing Applied Standards

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

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipment

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

1.2.2 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	101052	ESPI	R&S	2025.05.15	2026.05.14
LISN	103131	ENV 216	R&S	2025.03.20	2026.03.19
RF Coaxial Cable (DC-100MHz)	EMC-CE-0051 4	N/A	N/A	2025.05.06	2026.05.05

1.2.3 List of Software Used

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

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2025.06.28	2026.06.27
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	9120D-963	BBHA 9120D	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2025.06.20	2026.06.19
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2024.09.11	2025.09.10
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29



1.3. Measurement Uncertainty

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

1.4. Testing Laboratory

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



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	DrKumo Inc.
Applicant Address:	6850 Lincoln Ave. STE 102 Buena Park, CA 90620, USA.
Manufacturer:	DrKumo Inc.
Manufacturer Address:	6850 Lincoln Ave. STE 102 Buena Park, CA 90620, USA.

2.2. Information of EUT

Product Name:	Tablet	
Sample No.:	1#	
Hardware Version:	AP37_P1	
Software Version:	HPP-AP37-1.0.4	
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:	Internal Antenna	
Antenna Gain:	0.95dBi	
Accessory Information:	Brand Name:	
	Model No.:	HLP2504G50
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Shenzhen Aerospace Electronic Co., Ltd.
	Brand Name:	hotpepper

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



2.3.Channel List of EUT

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

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



2.4. Test Configuration of EUT

2.4.1. Modulation Type and Data Rate of EUT

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

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

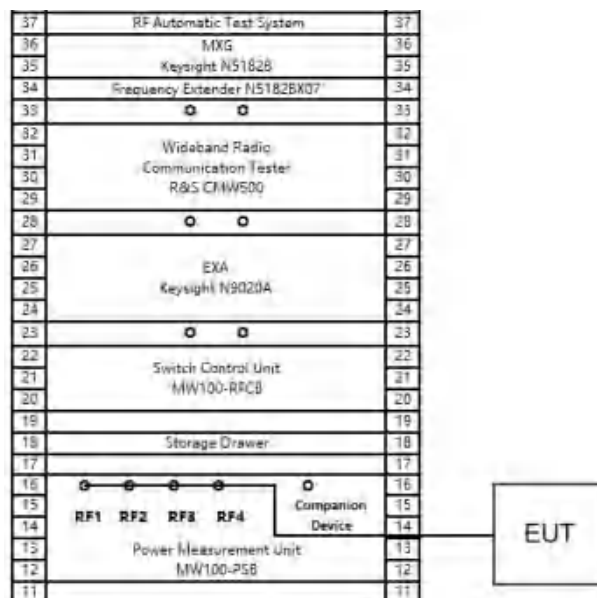
Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

2.5. Test Conditions

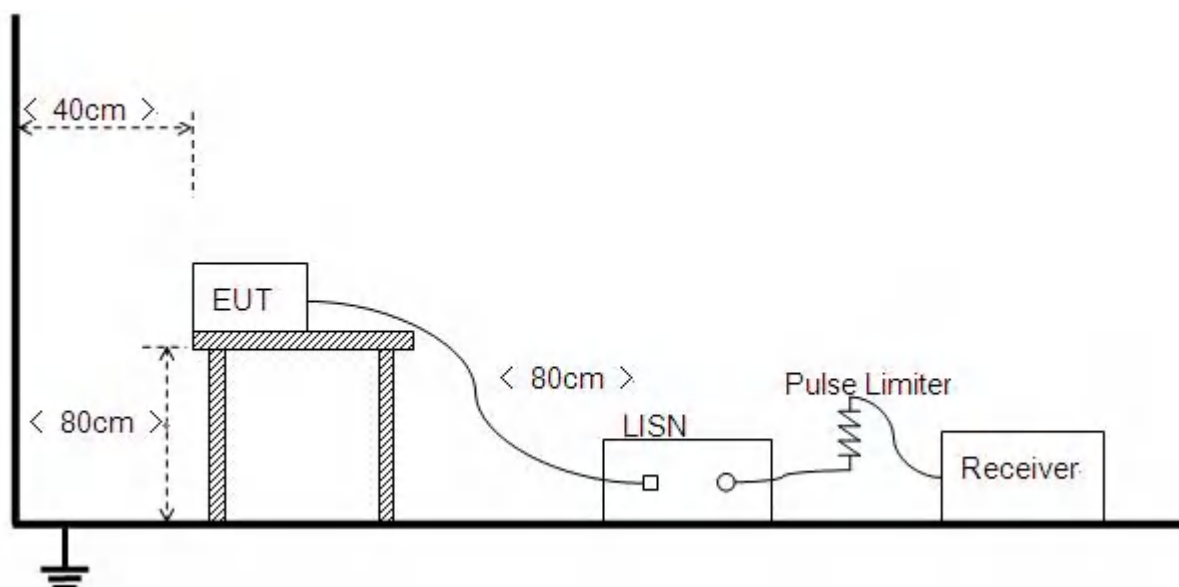
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

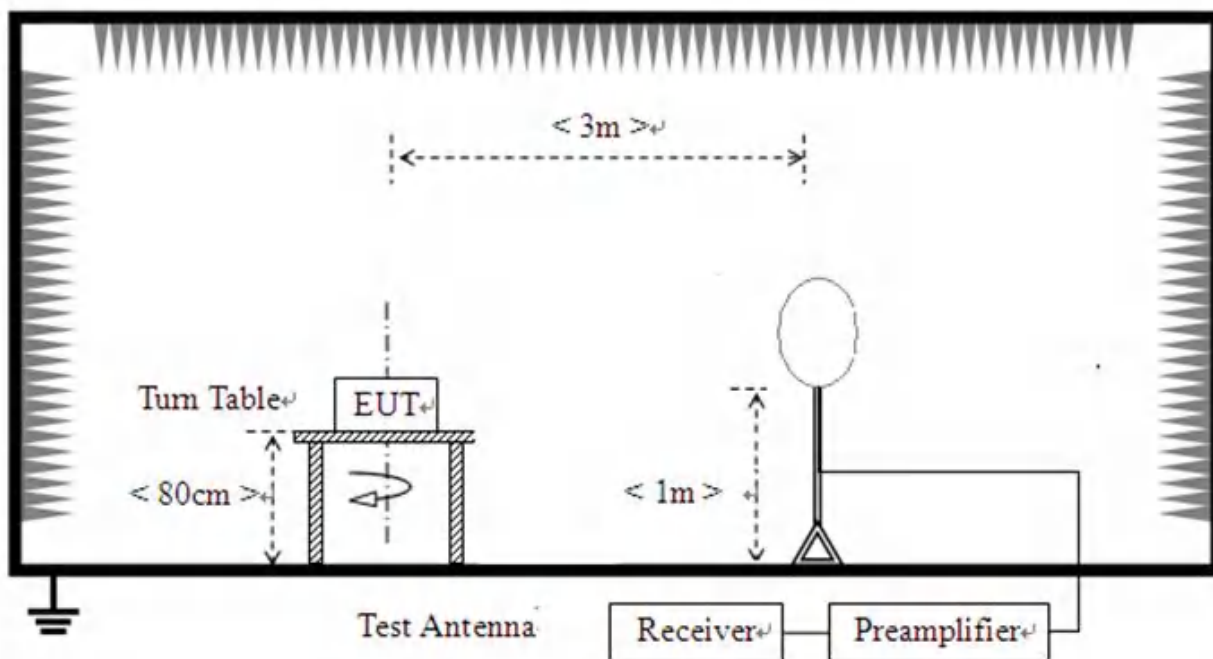


2.6.2. Conducted Emission Measurement

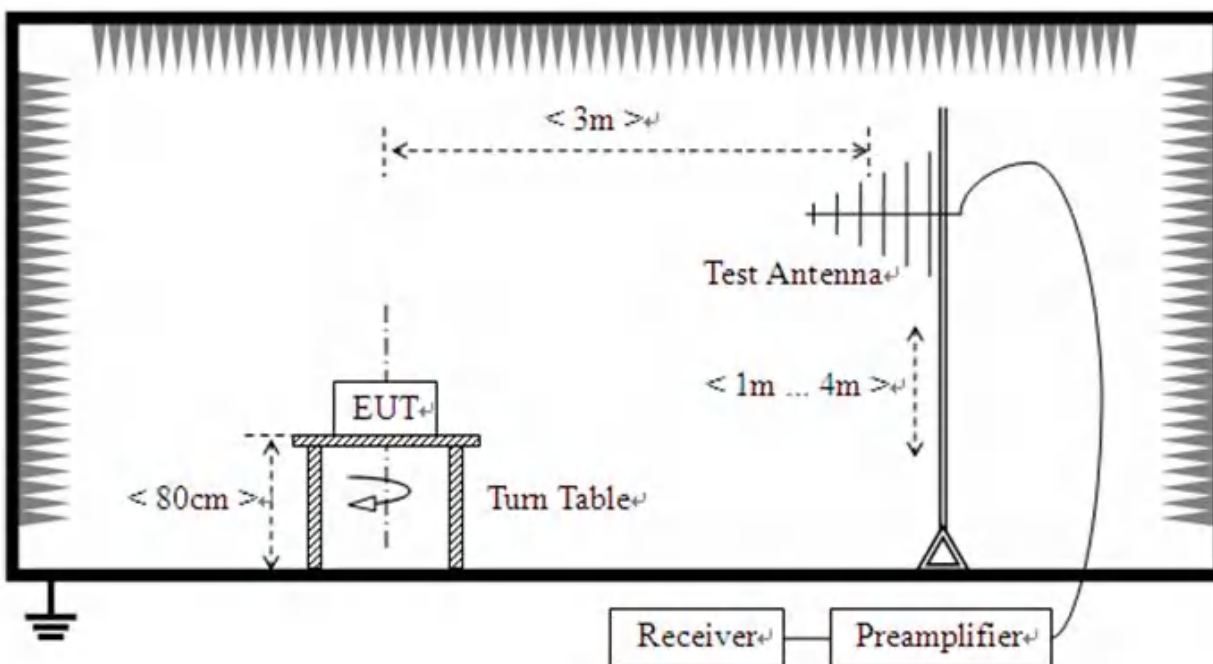


2.6.3.Radiation Measurement

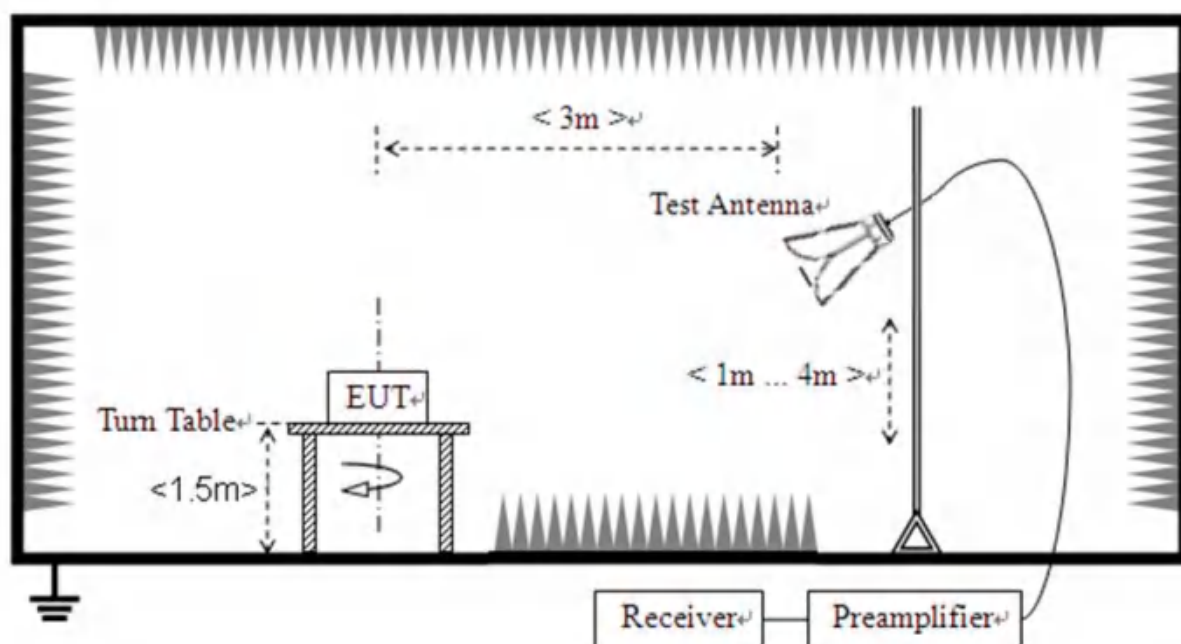
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz





3. Test Results

3.1. Antenna Requirement

3.1.1. Requirement

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.2. Test Result

Antenna location	Antenna Type	Coupling Method
☒ Internal ☐ External	☐ FPC Antenna ☐ Spring Antenna ☐ Ceramic Antenna ☐ Integrated Antenna ☐ Dipole Antenna ☐ PCB Antenna ☐ PIFA Antenna ☒ Loop 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 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.3 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.4 and A.5 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:
$$\text{Conducted PSD} = \text{PD} - 10 \lg(30\text{k}/3\text{k})$$

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.

3.7.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.7.4. Test Result

Refer to Annex A.6 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.8 in this report.



3.9. Radiated Emission

3.9.1. Requirement

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

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

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

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

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



3.9.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.9.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4.Test Result

Refer to Annex A.9 in this report.

Annex A Test Data and Result

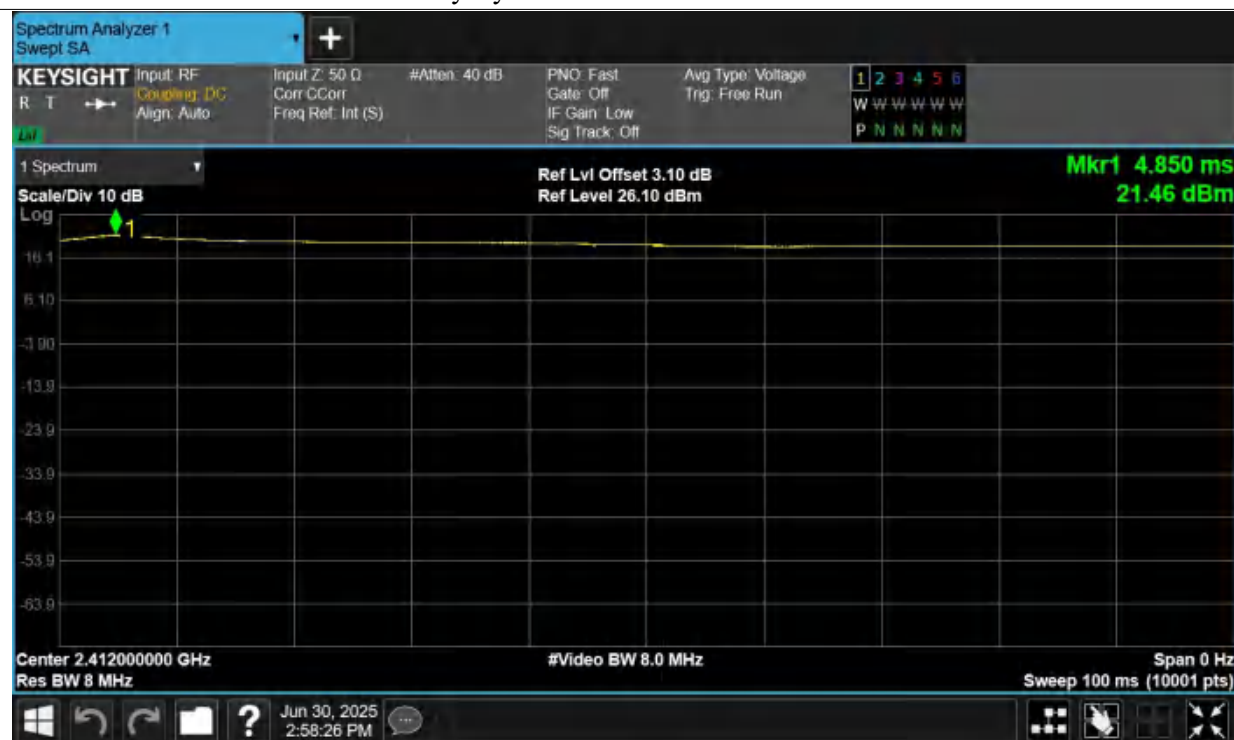
**A.1. Duty Cycle of Test Signal**

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	100	0
NVNT	b	2437	Ant1	100	0
NVNT	b	2462	Ant1	100	0
NVNT	g	2412	Ant1	100	0
NVNT	g	2437	Ant1	100	0
NVNT	g	2462	Ant1	100	0
NVNT	n20	2412	Ant1	100	0
NVNT	n20	2437	Ant1	100	0
NVNT	n20	2462	Ant1	100	0
NVNT	n40	2422	Ant1	100	0
NVNT	n40	2437	Ant1	100	0
NVNT	n40	2452	Ant1	100	0

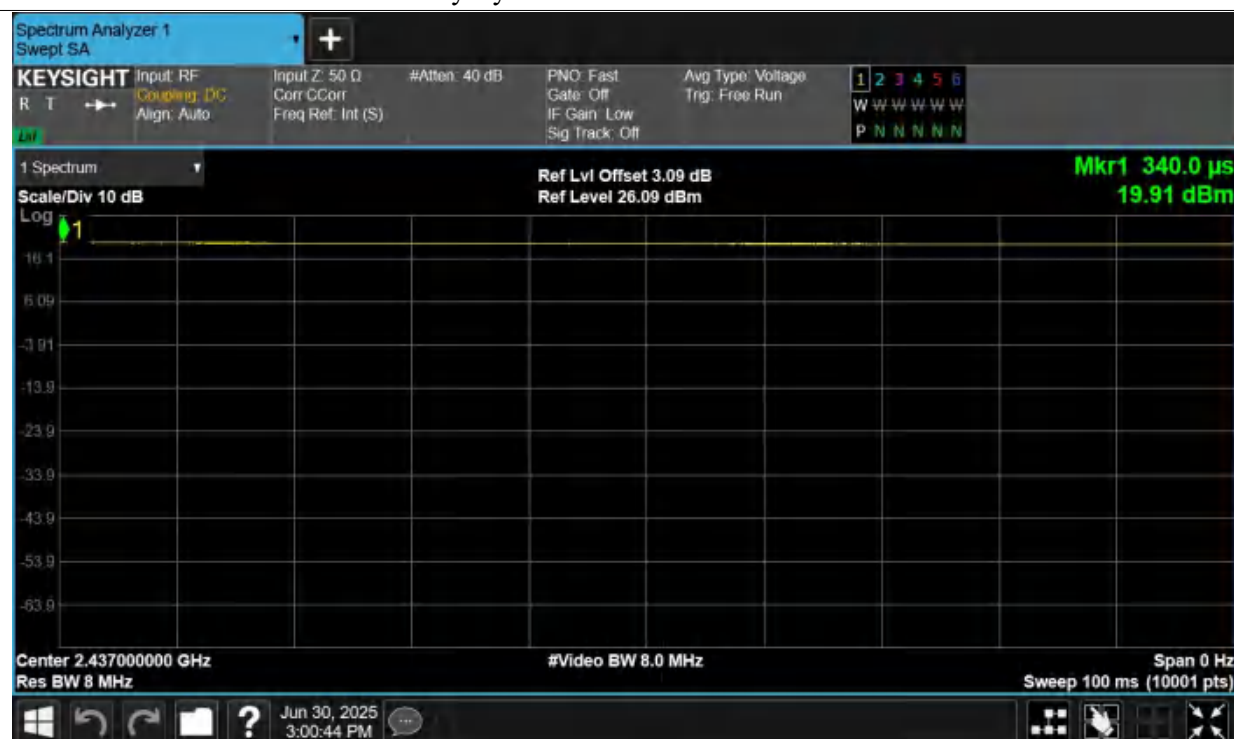


Test Graphs

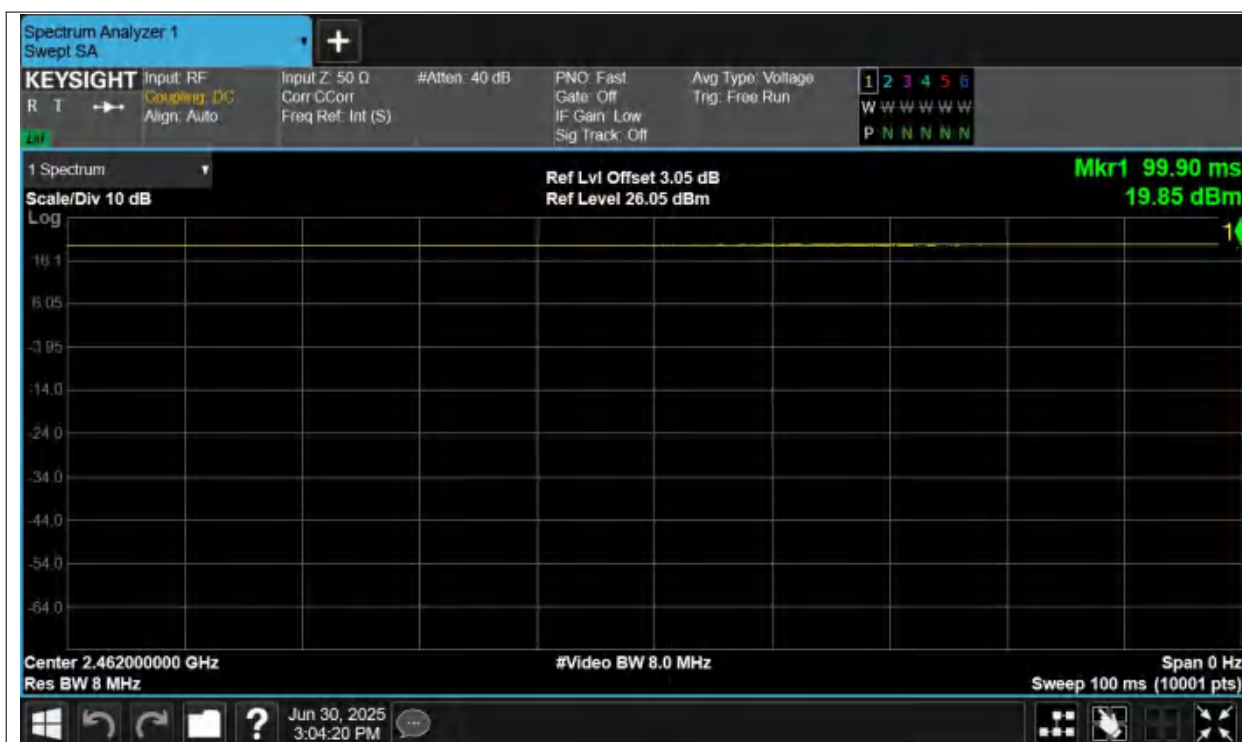
Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



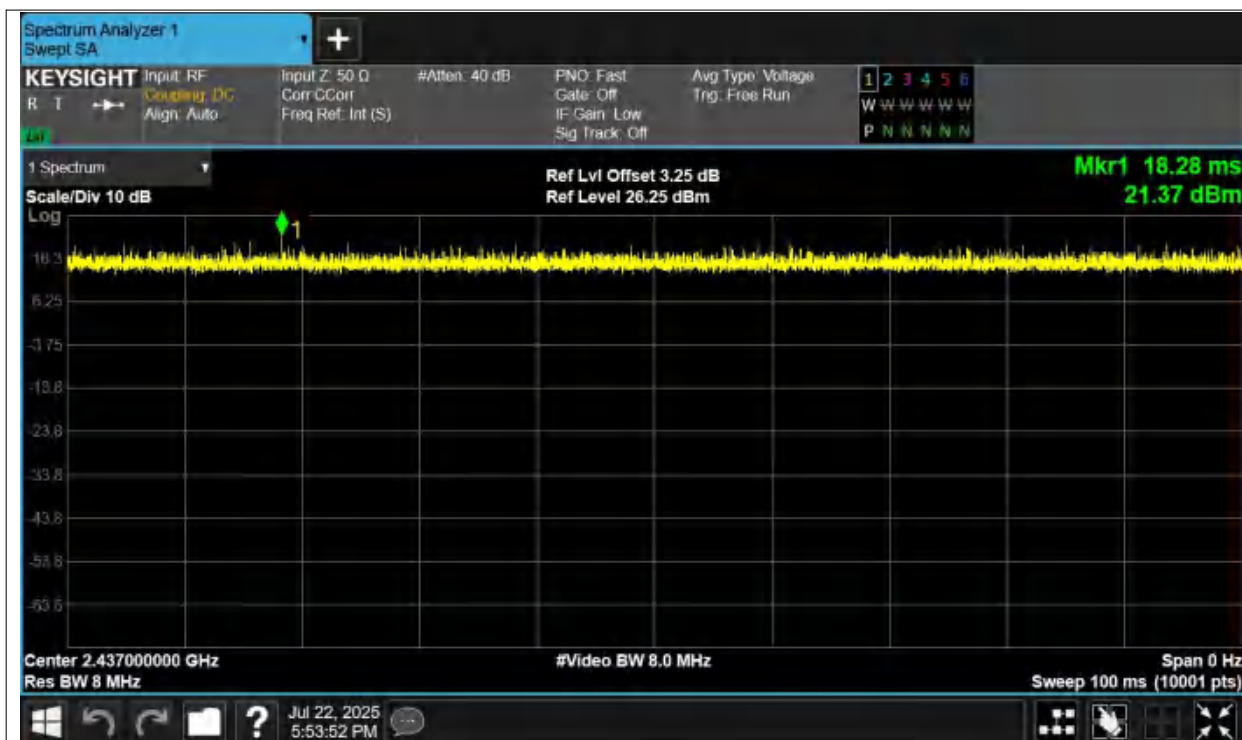
Duty Cycle NVNT b 2462MHz Ant1



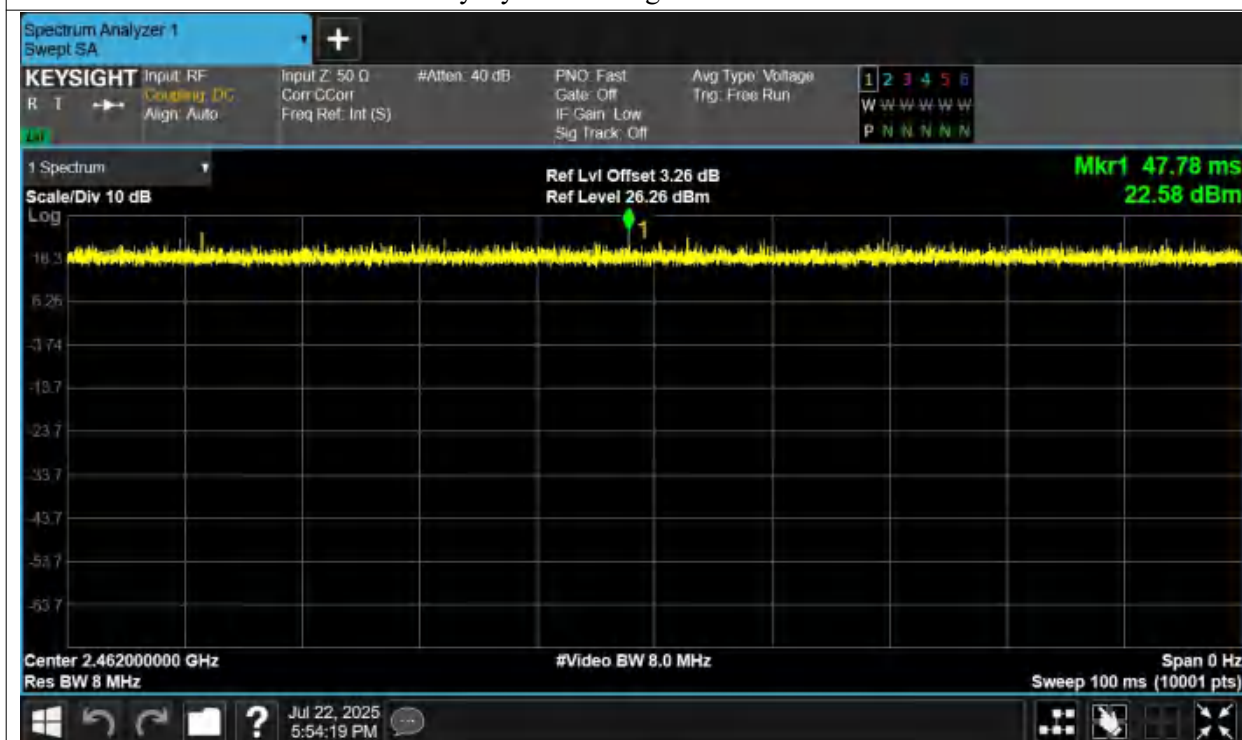
Duty Cycle NVNT g 2412MHz Ant1



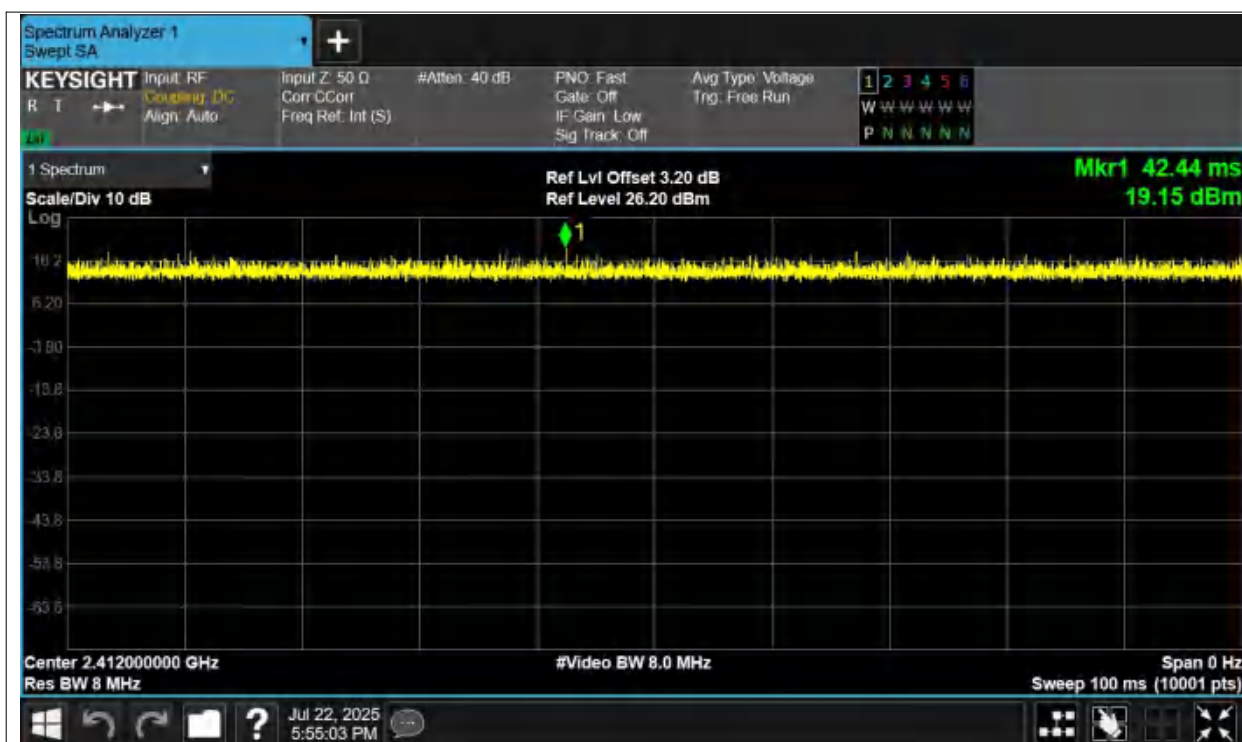
Duty Cycle NVNT g 2437MHz Ant1



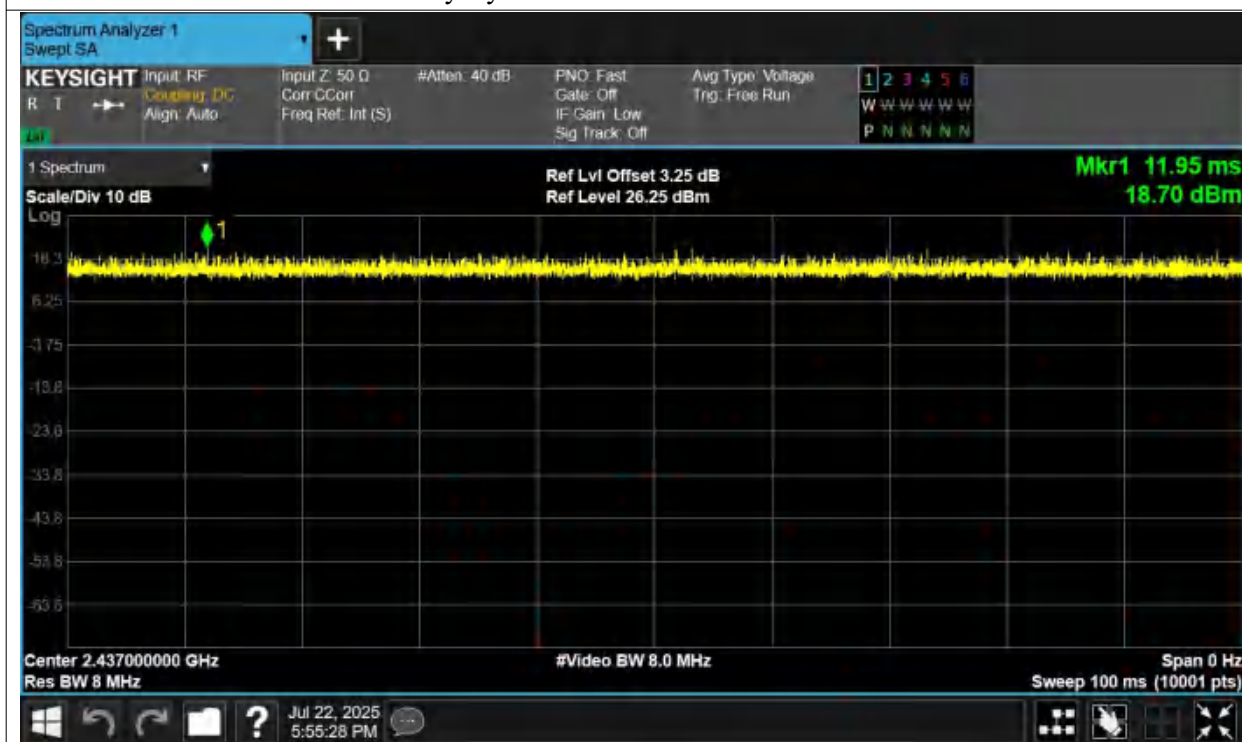
Duty Cycle NVNT g 2462MHz Ant1



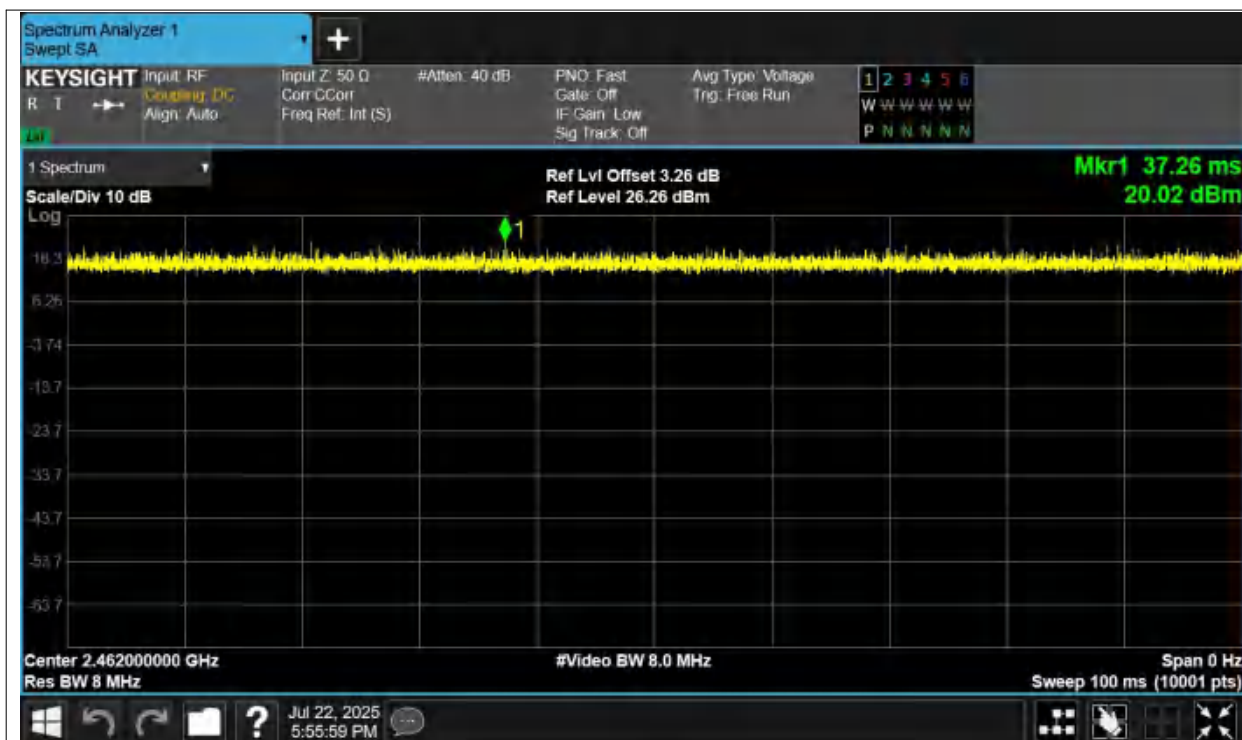
Duty Cycle NVNT n20 2412MHz Ant1



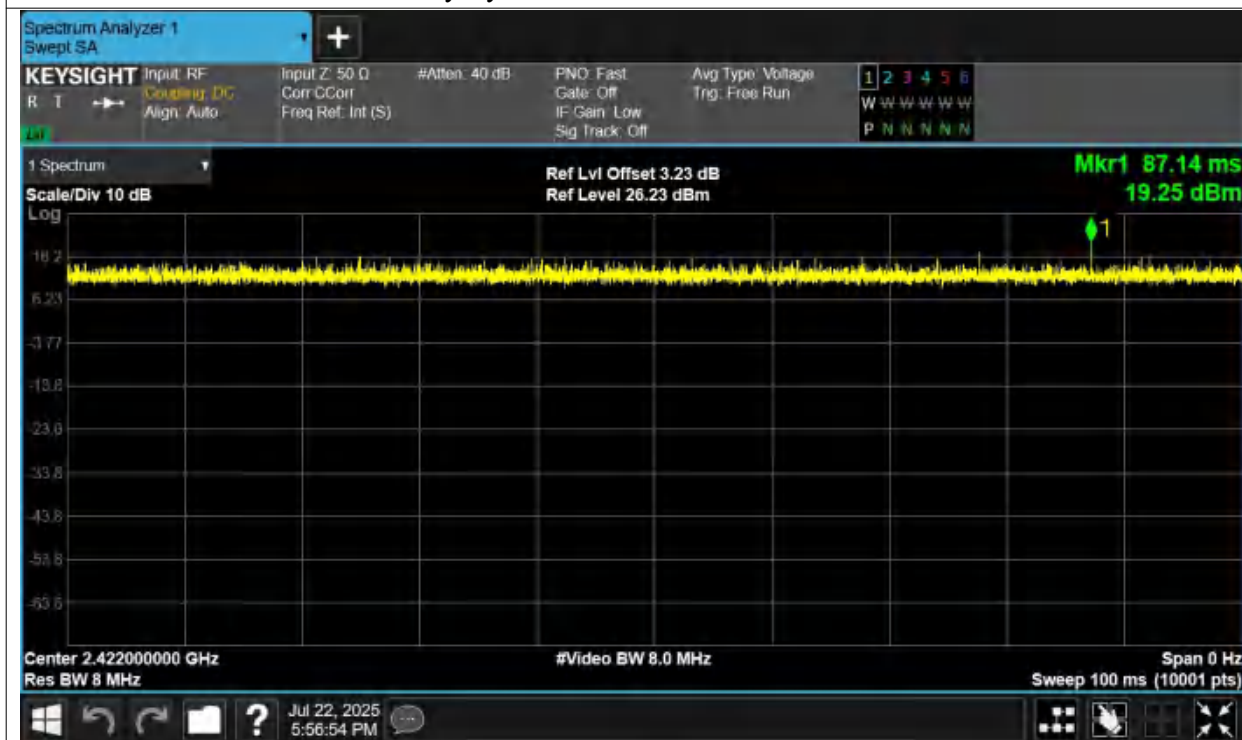
Duty Cycle NVNT n20 2437MHz Ant1



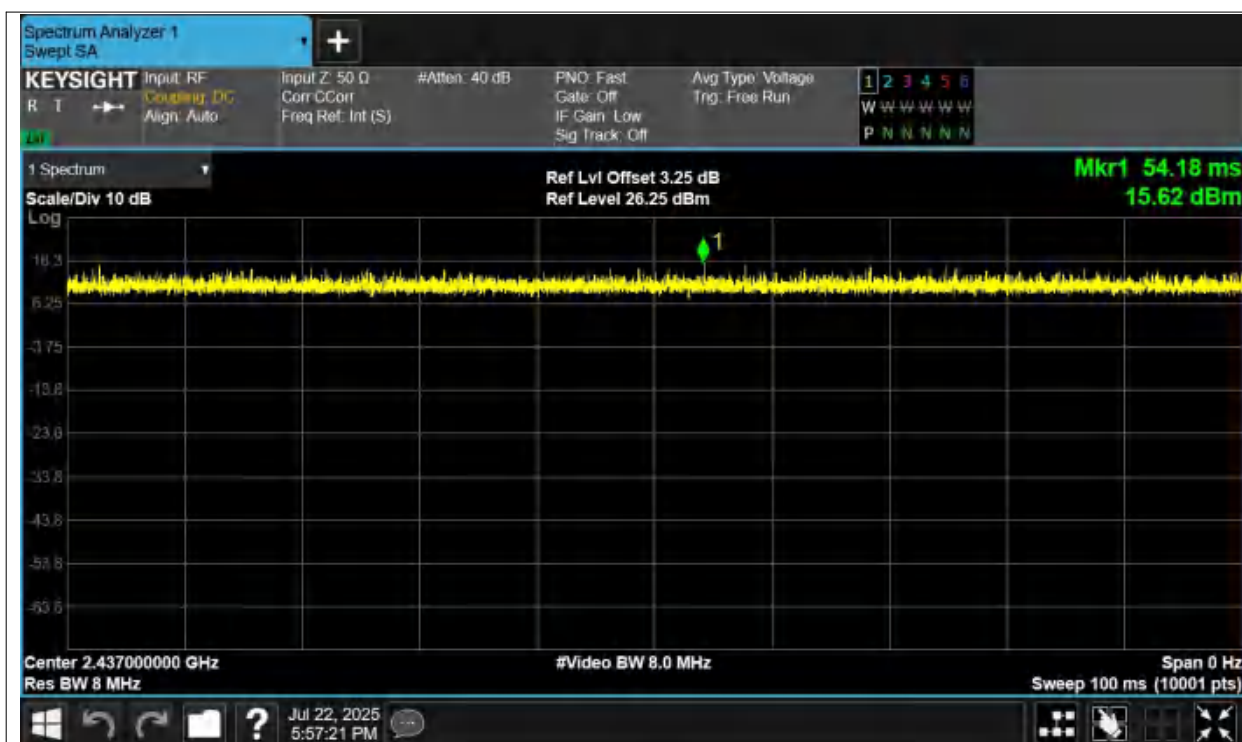
Duty Cycle NVNT n20 2462MHz Ant1



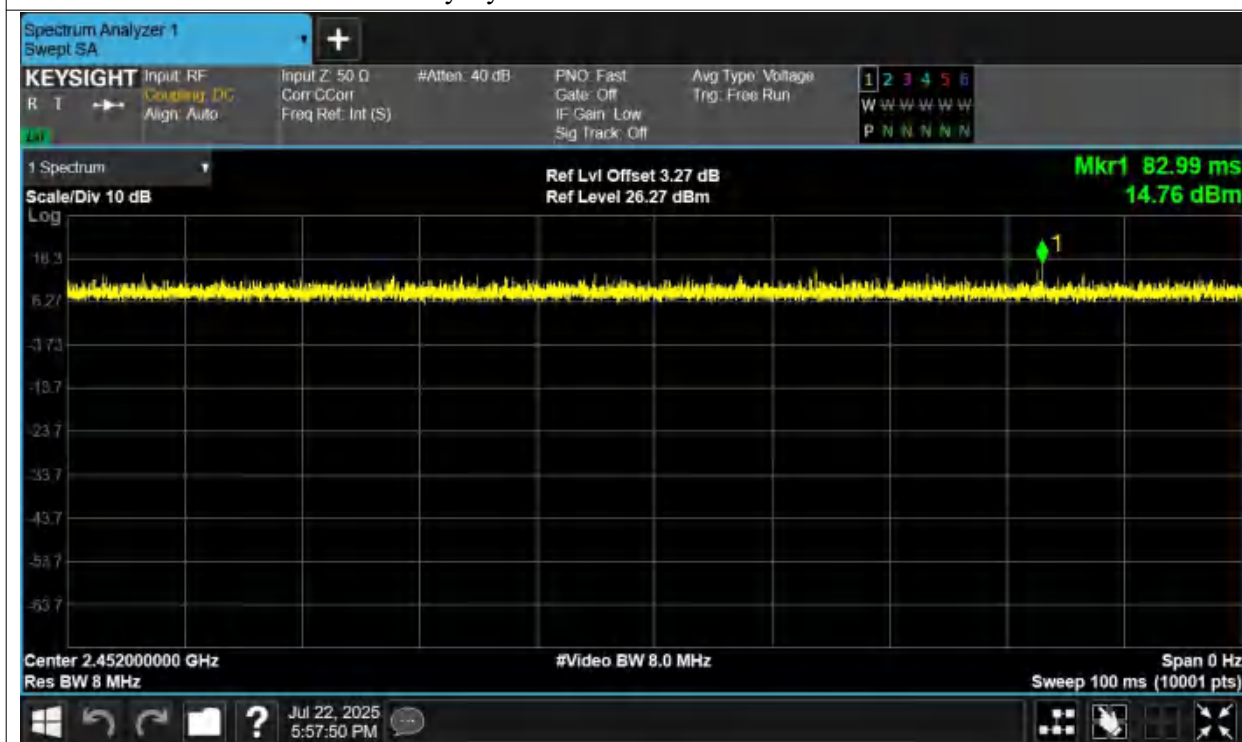
Duty Cycle NVNT n40 2422MHz Ant1



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 Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.86	0	15.86	30	Pass
NVNT	b	2437	Ant1	15.67	0	15.67	30	Pass
NVNT	b	2462	Ant1	16.27	0	16.27	30	Pass
NVNT	g	2412	Ant1	10.47	0	10.47	30	Pass
NVNT	g	2437	Ant1	11.17	0	11.17	30	Pass
NVNT	g	2462	Ant1	11.79	0	11.79	30	Pass
NVNT	n20	2412	Ant1	10.15	0	10.15	30	Pass
NVNT	n20	2437	Ant1	10.08	0	10.08	30	Pass
NVNT	n20	2462	Ant1	10.34	0	10.34	30	Pass
NVNT	n40	2422	Ant1	9.59	0	9.59	30	Pass
NVNT	n40	2437	Ant1	9.5	0	9.5	30	Pass
NVNT	n40	2452	Ant1	9.28	0	9.28	30	Pass

**A.3. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit(MHz)	Verdic
NVNT	b	2412	Ant1	9.054	0.5	Pass
NVNT	b	2437	Ant1	8.114	0.5	Pass
NVNT	b	2462	Ant1	6.573	0.5	Pass
NVNT	g	2412	Ant1	16.475	0.5	Pass
NVNT	g	2437	Ant1	15.55	0.5	Pass
NVNT	g	2462	Ant1	11.473	0.5	Pass
NVNT	n20	2412	Ant1	17.73	0.5	Pass
NVNT	n20	2437	Ant1	16.132	0.5	Pass
NVNT	n20	2462	Ant1	12.28	0.5	Pass
NVNT	n40	2422	Ant1	23.638	0.5	Pass
NVNT	n40	2437	Ant1	28.206	0.5	Pass
NVNT	n40	2452	Ant1	35.607	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



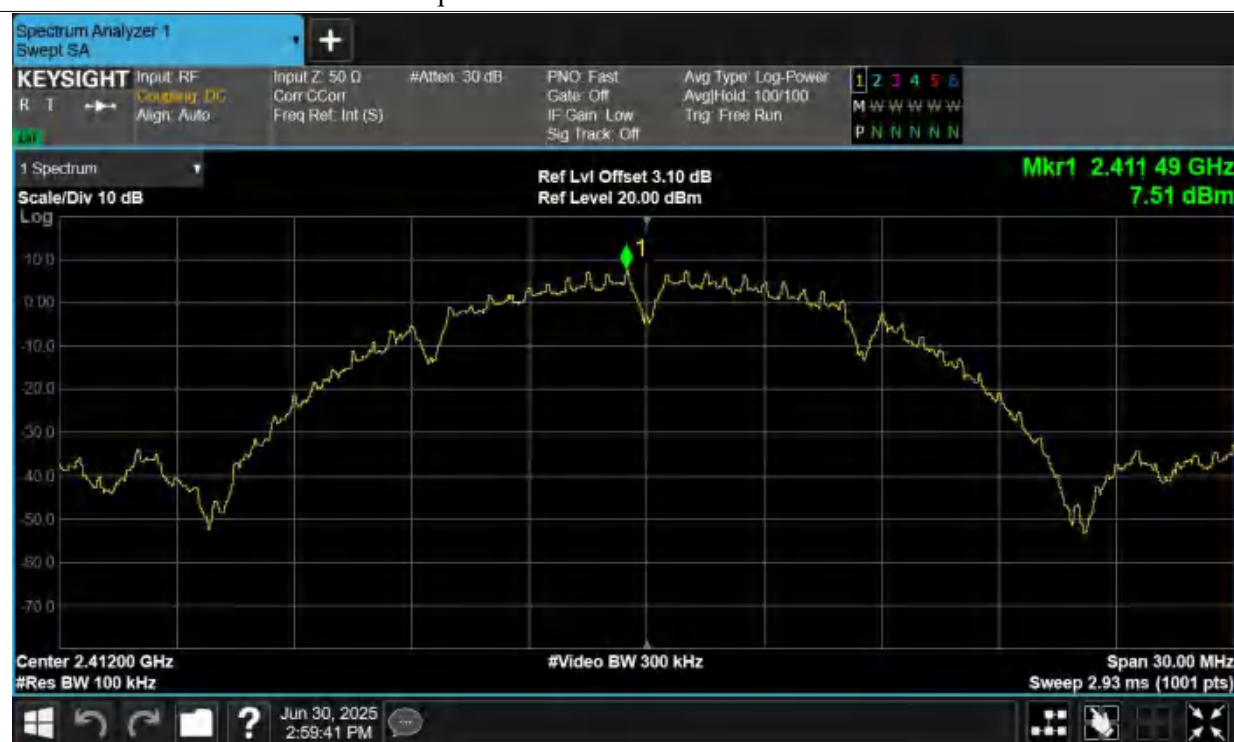
**A.4. Conducted Spurious Emissions**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.64	-30	Pass
NVNT	b	2437	Ant1	-45.26	-30	Pass
NVNT	b	2462	Ant1	-50.74	-30	Pass
NVNT	g	2412	Ant1	-45.87	-30	Pass
NVNT	g	2437	Ant1	-46.22	-30	Pass
NVNT	g	2462	Ant1	-49.26	-30	Pass
NVNT	n20	2412	Ant1	-44.37	-30	Pass
NVNT	n20	2437	Ant1	-45.1	-30	Pass
NVNT	n20	2462	Ant1	-45.86	-30	Pass
NVNT	n40	2422	Ant1	-45	-30	Pass
NVNT	n40	2437	Ant1	-43.41	-30	Pass
NVNT	n40	2452	Ant1	-44.07	-30	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



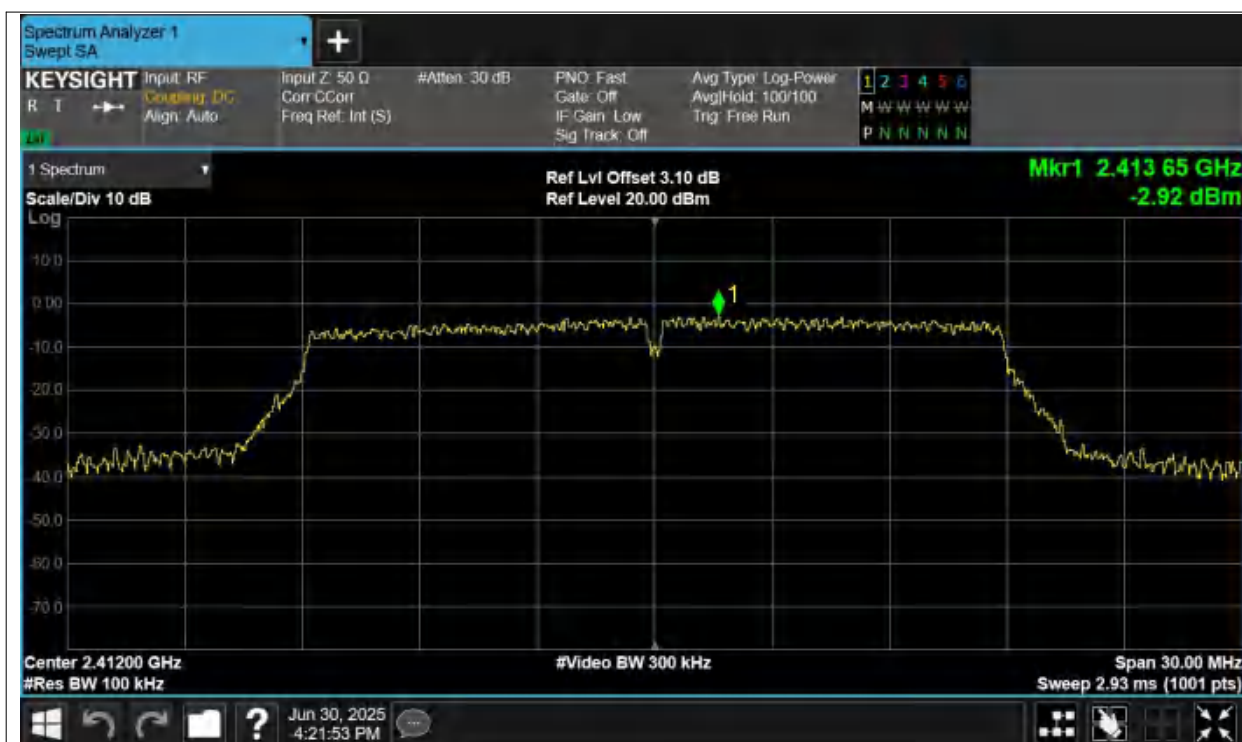
Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



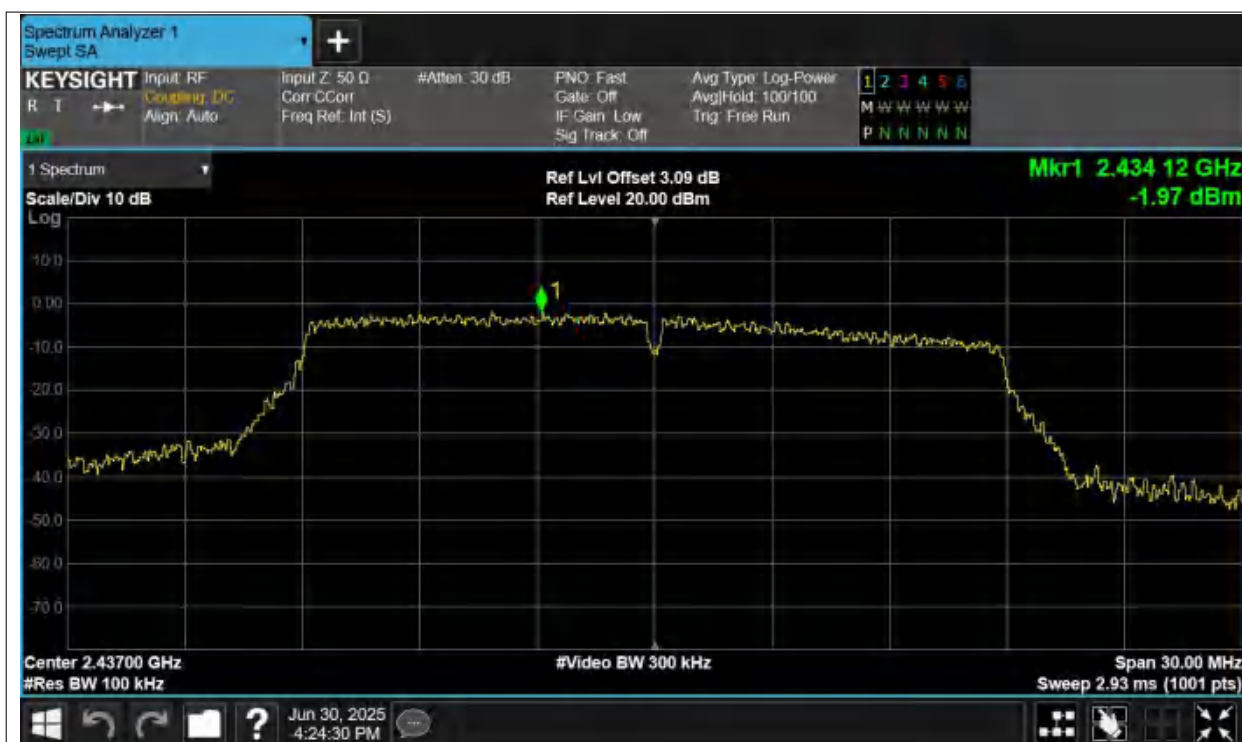
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



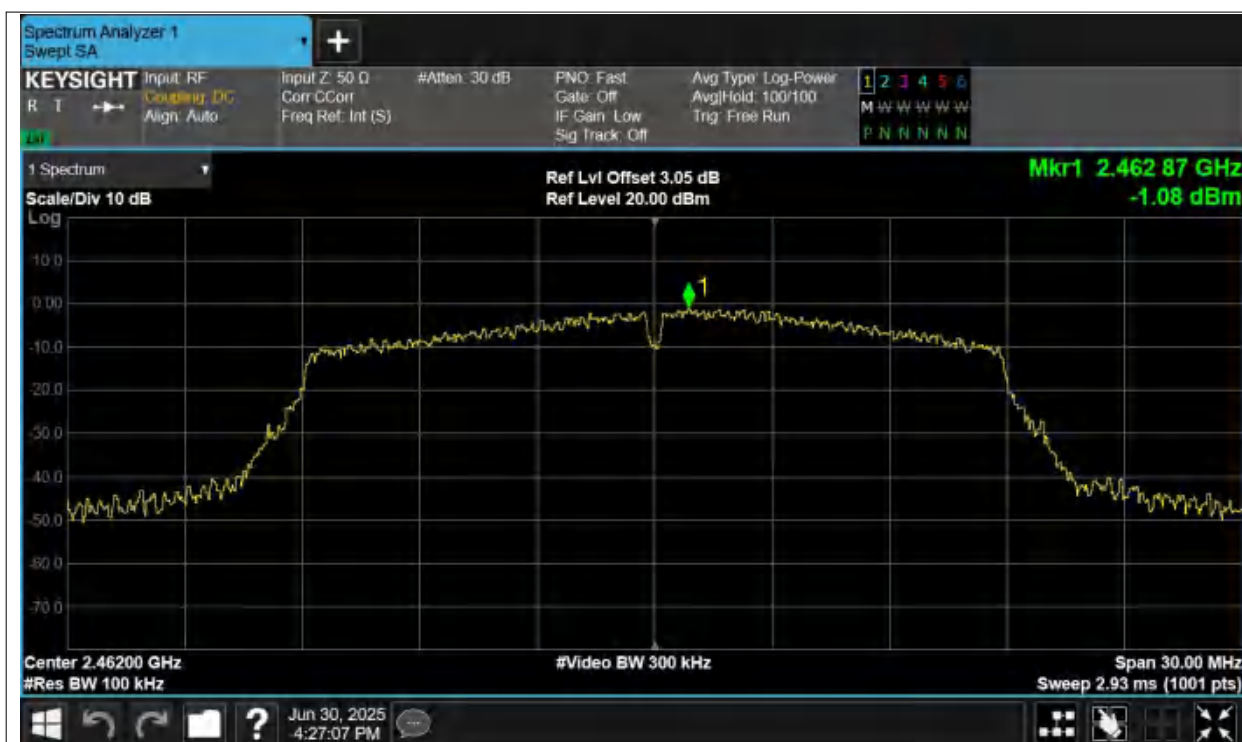
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



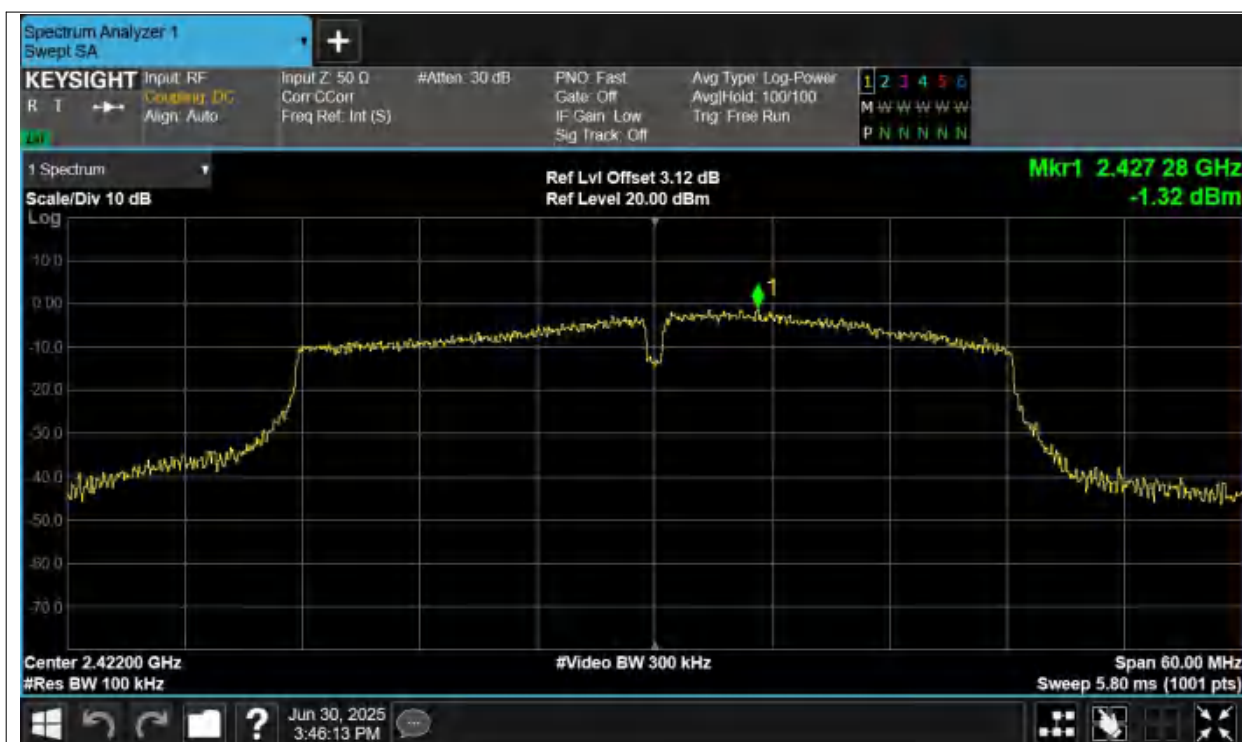
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



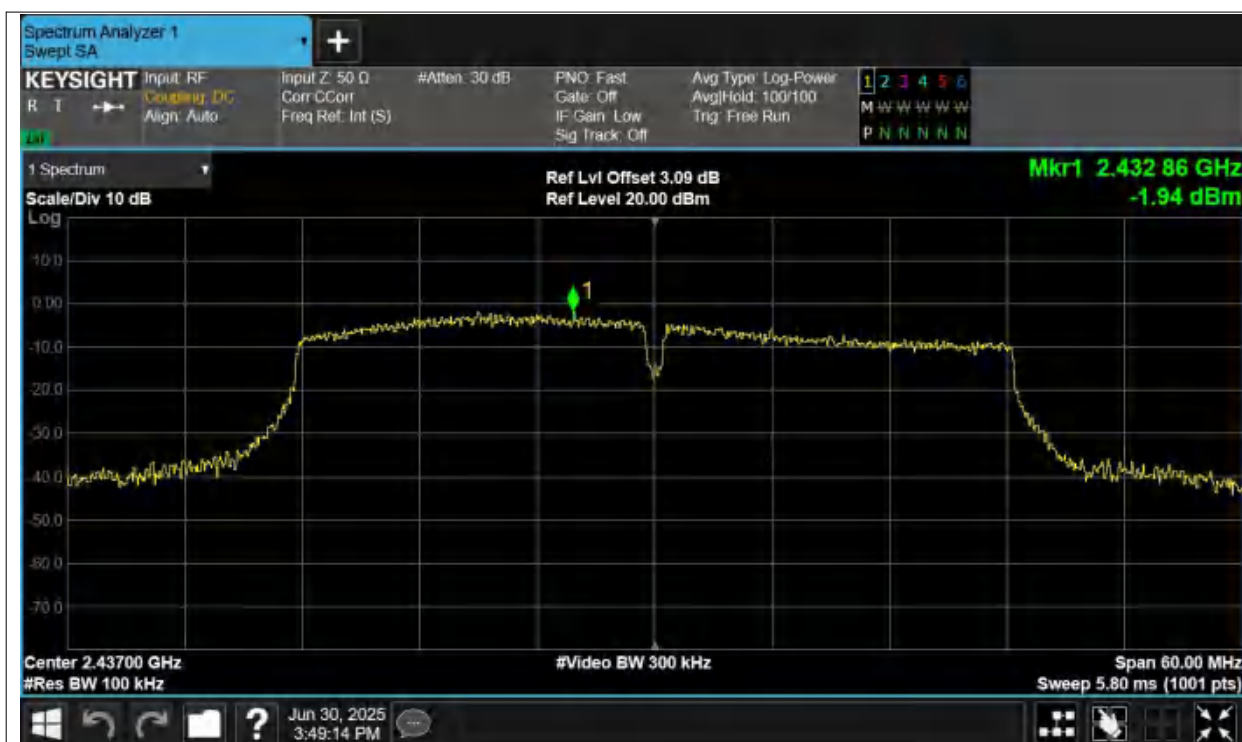
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



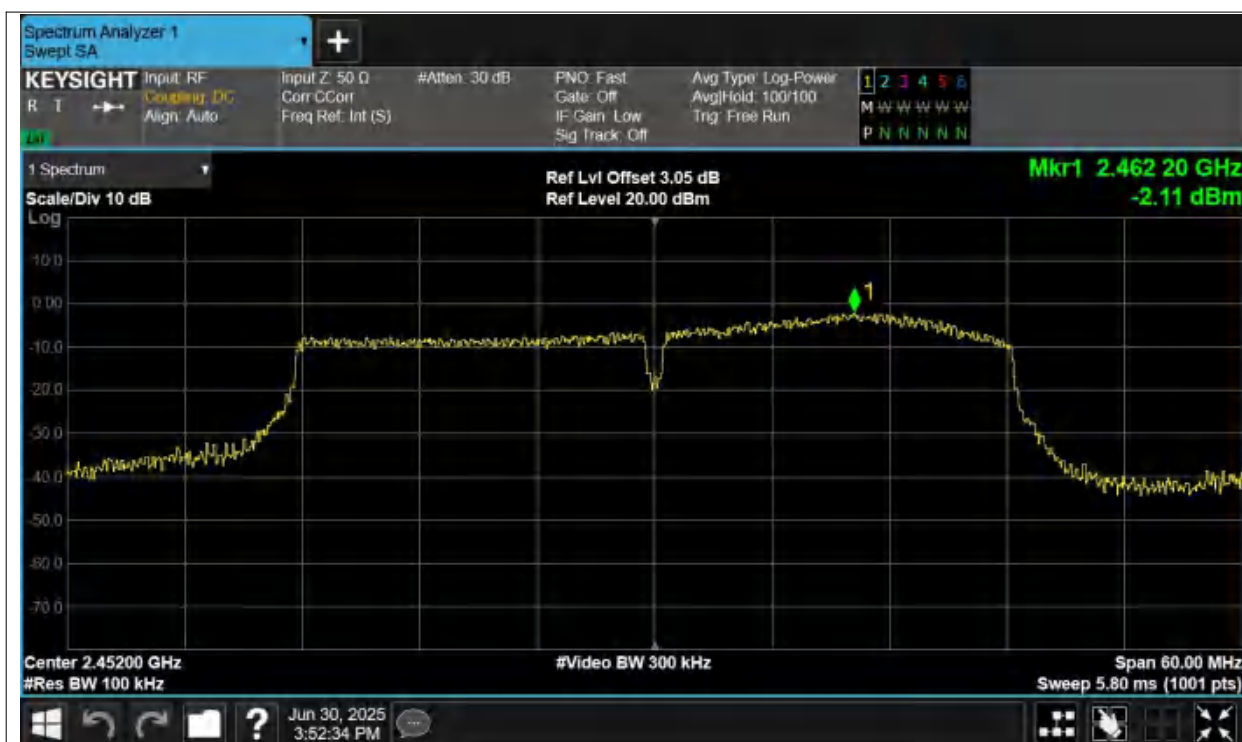
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



**A.5. Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42	-30	Pass
NVNT	b	2462	Ant1	-61.45	-30	Pass
NVNT	g	2412	Ant1	-30.27	-30	Pass
NVNT	g	2462	Ant1	-48.73	-30	Pass
NVNT	n20	2412	Ant1	-30.08	-30	Pass
NVNT	n20	2462	Ant1	-50.32	-30	Pass
NVNT	n40	2422	Ant1	-30.7	-30	Pass
NVNT	n40	2452	Ant1	-37.19	-30	Pass



Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



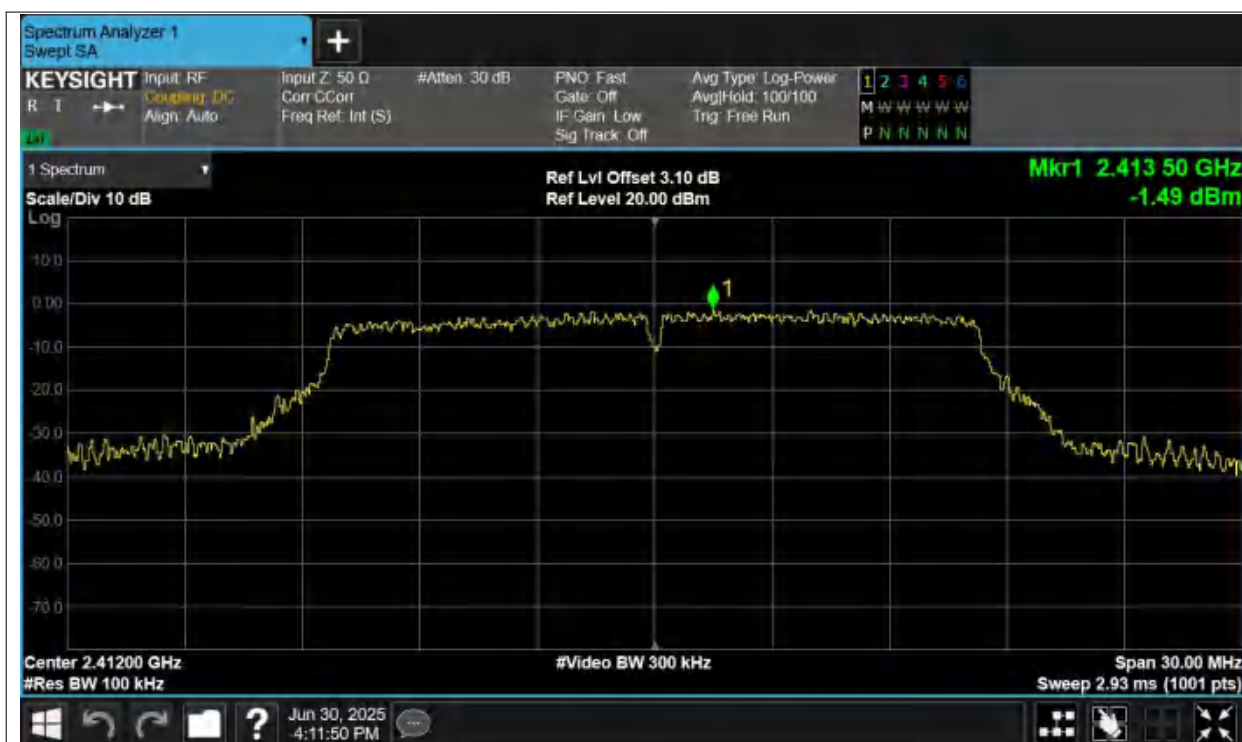
Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



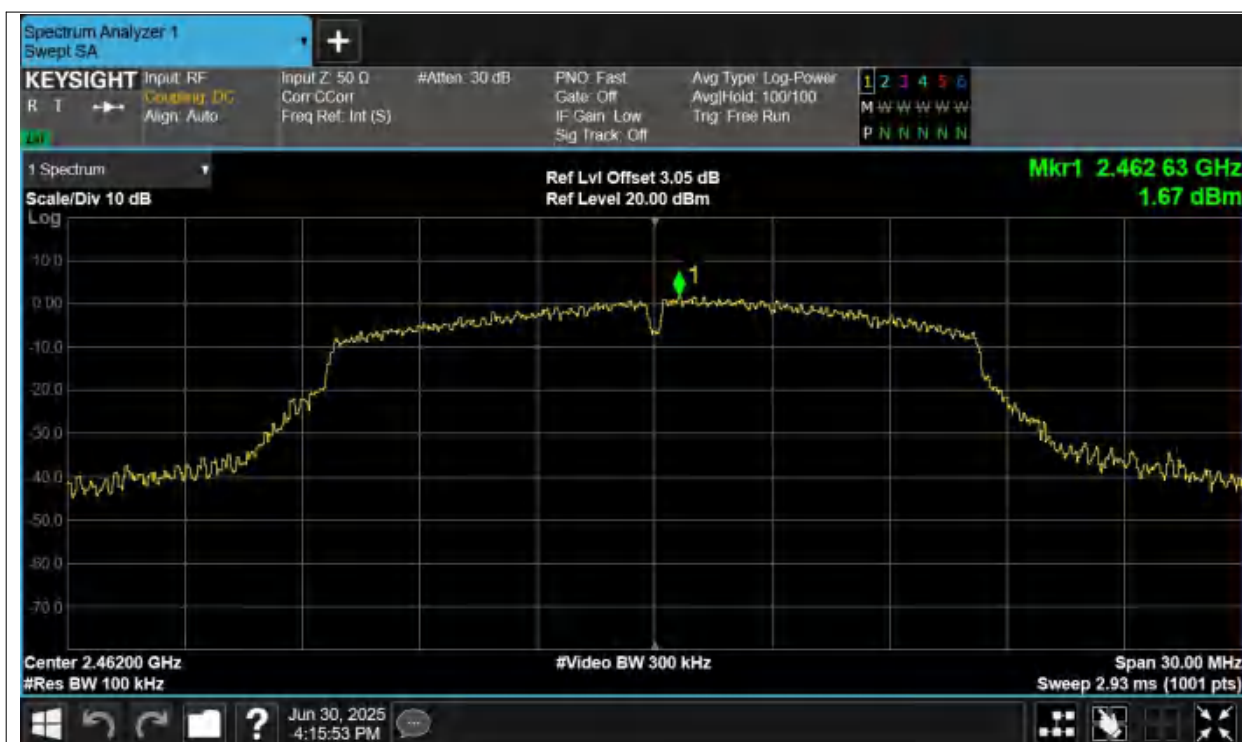
Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



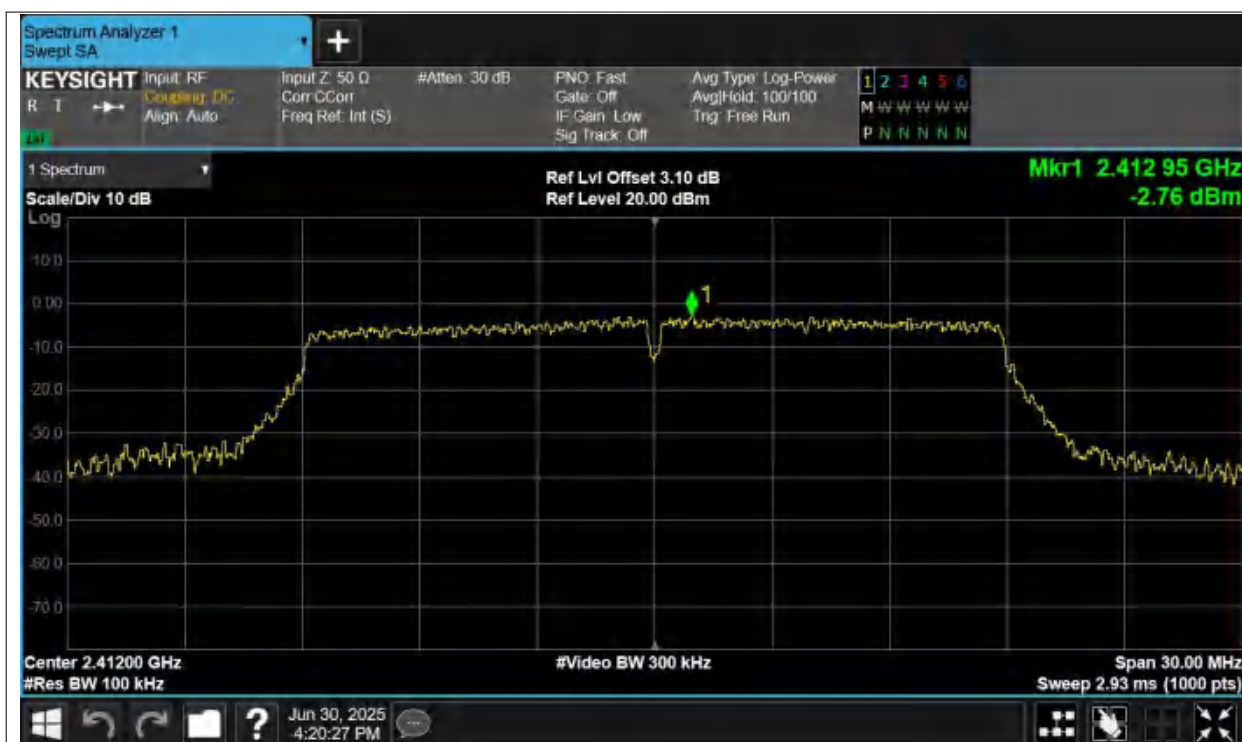
Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



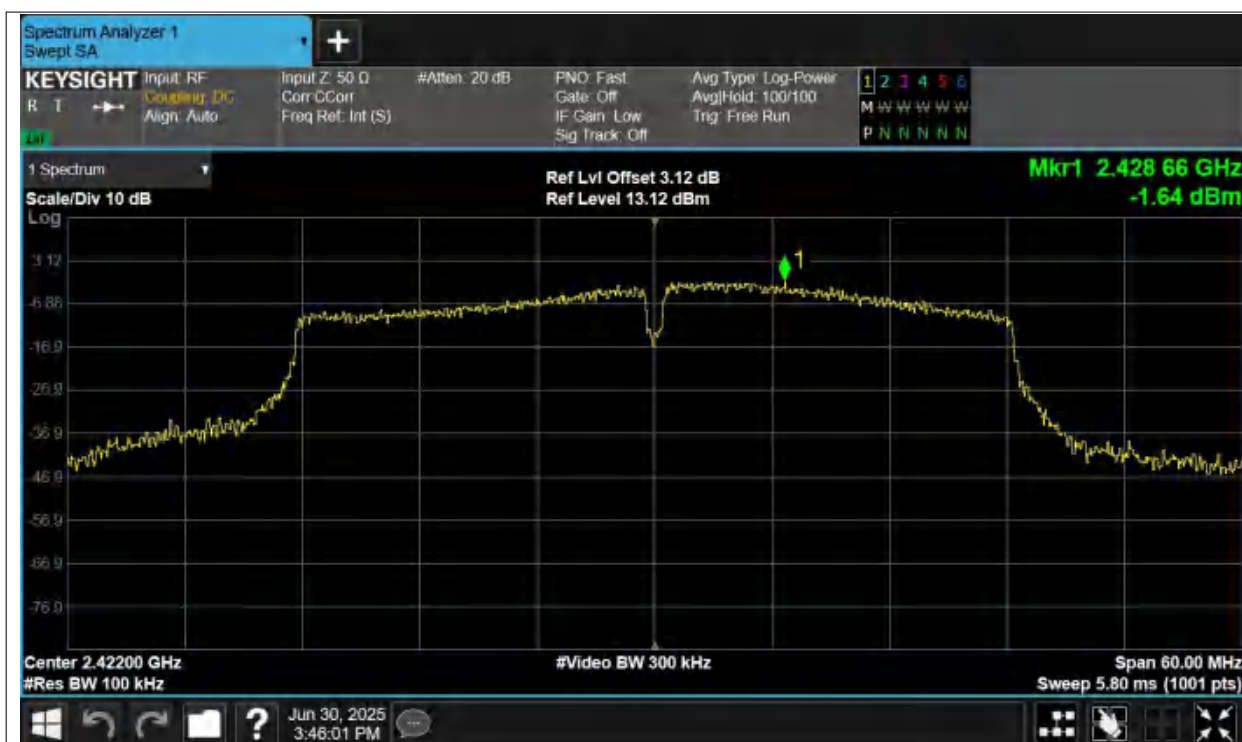
Band Edge NVNT n20 2462MHz Ant1 Ref



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.6. 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:

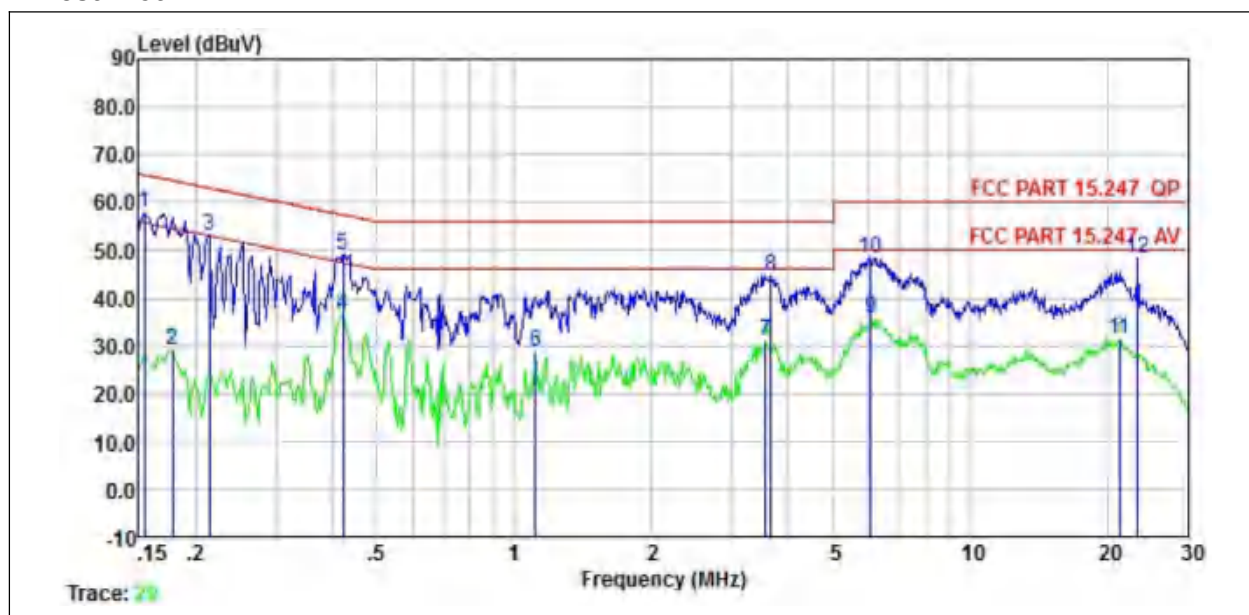
$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

A_{Factor} : Voltage division factor of LISN

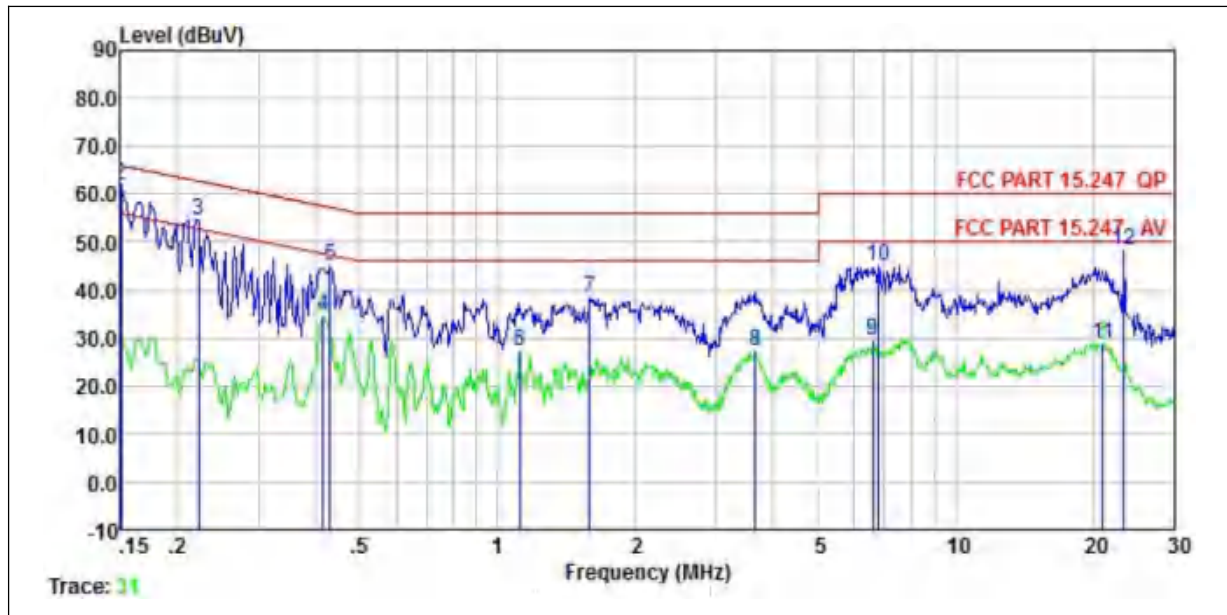


B. Test Plot:



(L Phase)

	Freq	Read	LISN	Aux	Aux2	Cable	Level	Limit	Over	Remark
	MHz	dBuV	Factor	Factor	Factor	Loss	dBuV	dBuV	Limit	dB
1	0.154	37.79	10.19	0.00	9.88	0.01	57.87	65.78	-7.91	QP
2	0.178	9.05	10.14	0.00	9.88	0.01	29.08	54.59	-25.51	Average
3	0.214	33.00	10.10	0.00	9.88	0.03	53.01	63.05	-10.04	QP
4	0.421	16.64	10.11	0.00	9.88	0.04	36.67	47.42	-10.75	Average
5	0.421	29.03	10.11	0.00	9.88	0.04	49.06	57.42	-8.36	QP
6	1.111	8.44	10.18	0.00	9.88	0.07	28.57	46.00	-17.43	Average
7	3.565	10.69	10.18	0.00	9.89	0.08	30.84	46.00	-15.16	Average
8	3.561	24.61	10.16	0.00	9.89	0.08	44.74	56.00	-11.26	QP
9	6.056	15.27	10.36	0.00	9.90	0.09	35.62	50.00	-14.38	Average
10	6.056	27.94	10.36	0.00	9.90	0.09	48.29	60.00	-11.71	QP
11	21.260	10.94	10.38	0.00	9.97	0.17	31.46	50.00	-18.54	Average
12	23.387	27.68	10.36	0.00	9.99	0.17	48.20	60.00	-11.80	QP



(N Phase)

	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	10.79	10.20	0.00	9.88	0.01	30.88	56.00	-25.12	Average
2	0.150	41.93	10.20	0.00	9.88	0.01	62.02	66.00	-3.98	QP
3	0.222	34.85	10.18	0.00	9.88	0.03	54.74	62.74	-8.00	QP
4	0.415	14.43	10.12	0.00	9.88	0.04	34.47	47.55	-13.08	Average
5	0.431	24.85	10.14	0.00	9.88	0.03	44.90	57.24	-12.34	QP
6	1.117	6.95	10.22	0.00	9.88	0.07	27.12	46.00	-18.88	Average
7	1.585	17.92	10.27	0.00	9.88	0.16	38.23	58.00	-17.77	QP
8	3.661	7.21	10.20	0.00	9.89	0.08	27.38	46.00	-18.62	Average
9	6.592	9.23	10.28	0.00	9.90	0.10	29.51	50.00	-20.49	Average
10	6.805	24.62	10.29	0.00	9.90	0.10	44.91	60.00	-15.09	QP
11	21.035	8.05	10.59	0.00	9.97	0.17	28.78	50.00	-21.22	Average
12	23.387	27.61	10.56	0.00	9.99	0.17	48.33	60.00	-11.67	QP



A.7. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-13.261	8	Pass
NVNT	b	2437	Ant1	-13.735	8	Pass
NVNT	b	2462	Ant1	-12.692	8	Pass
NVNT	g	2412	Ant1	-20.195	8	Pass
NVNT	g	2437	Ant1	-19.526	8	Pass
NVNT	g	2462	Ant1	-16.369	8	Pass
NVNT	n20	2412	Ant1	-20.666	8	Pass
NVNT	n20	2437	Ant1	-19.885	8	Pass
NVNT	n20	2462	Ant1	-19.196	8	Pass
NVNT	n40	2422	Ant1	-19.716	8	Pass
NVNT	n40	2437	Ant1	-20.628	8	Pass
NVNT	n40	2452	Ant1	-20.296	8	Pass

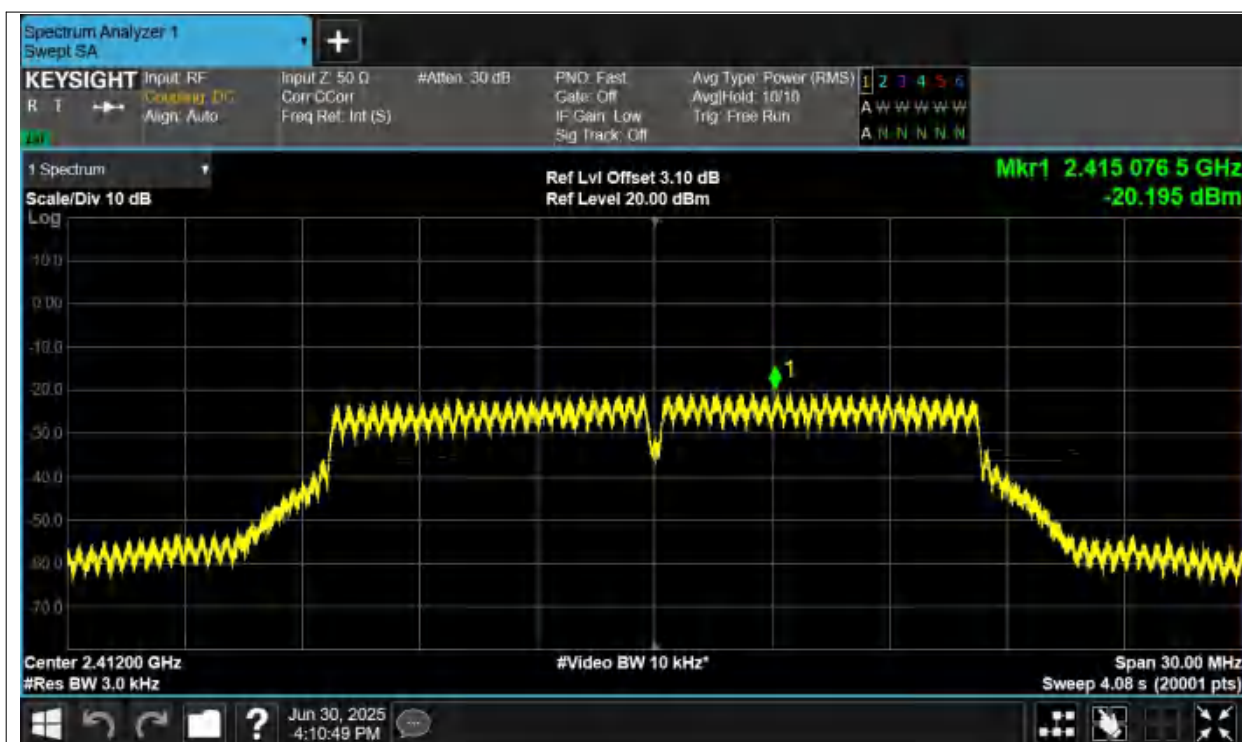




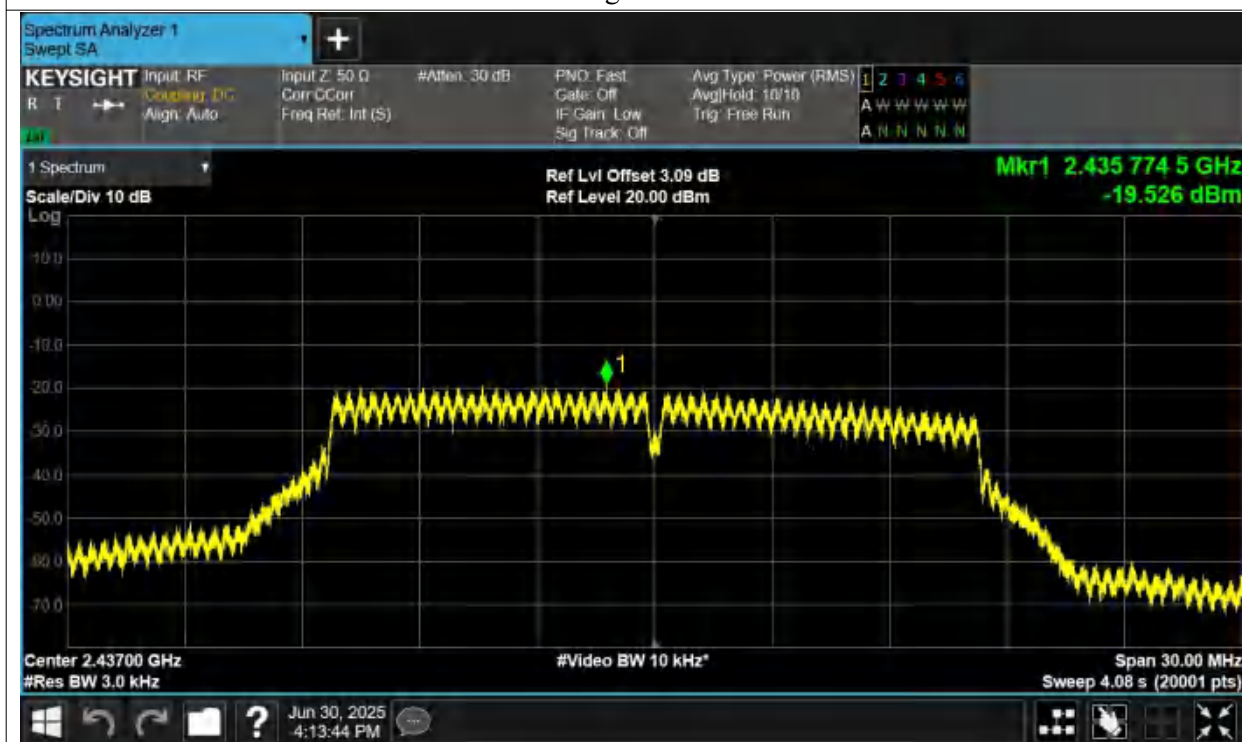
PSD NVNT b 2462MHz Ant1



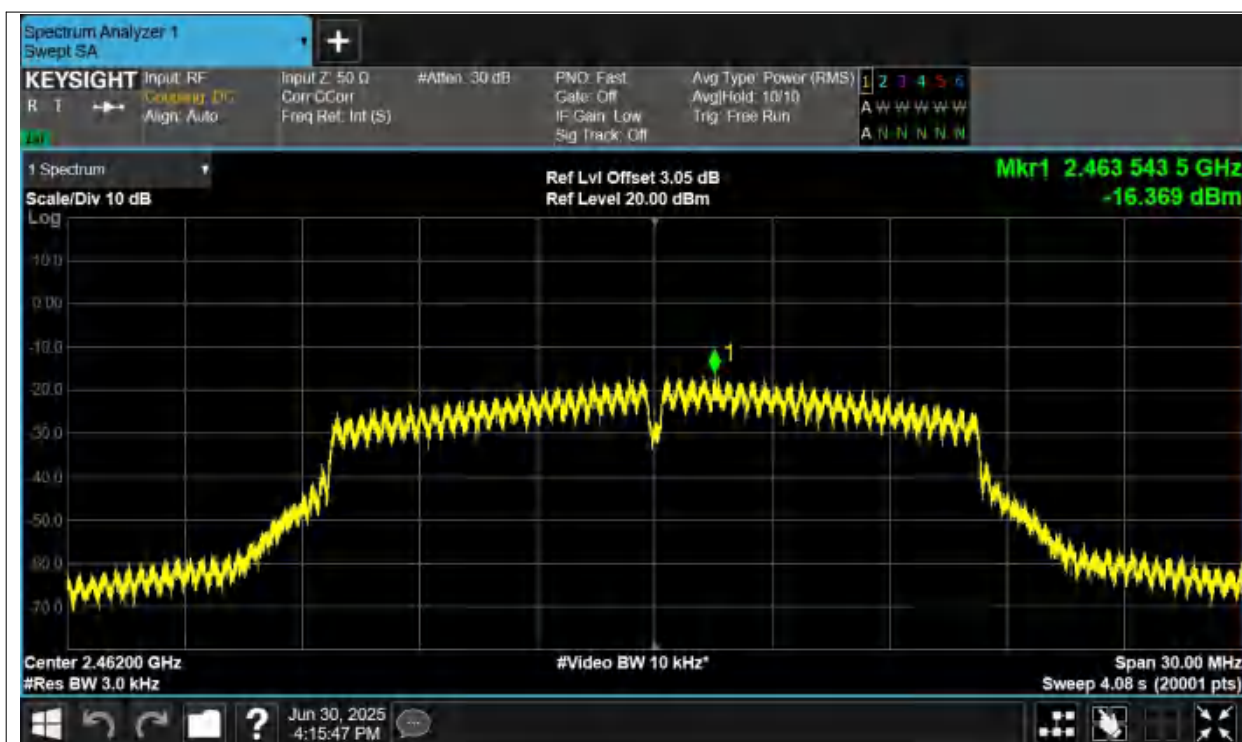
PSD NVNT g 2412MHz Ant1



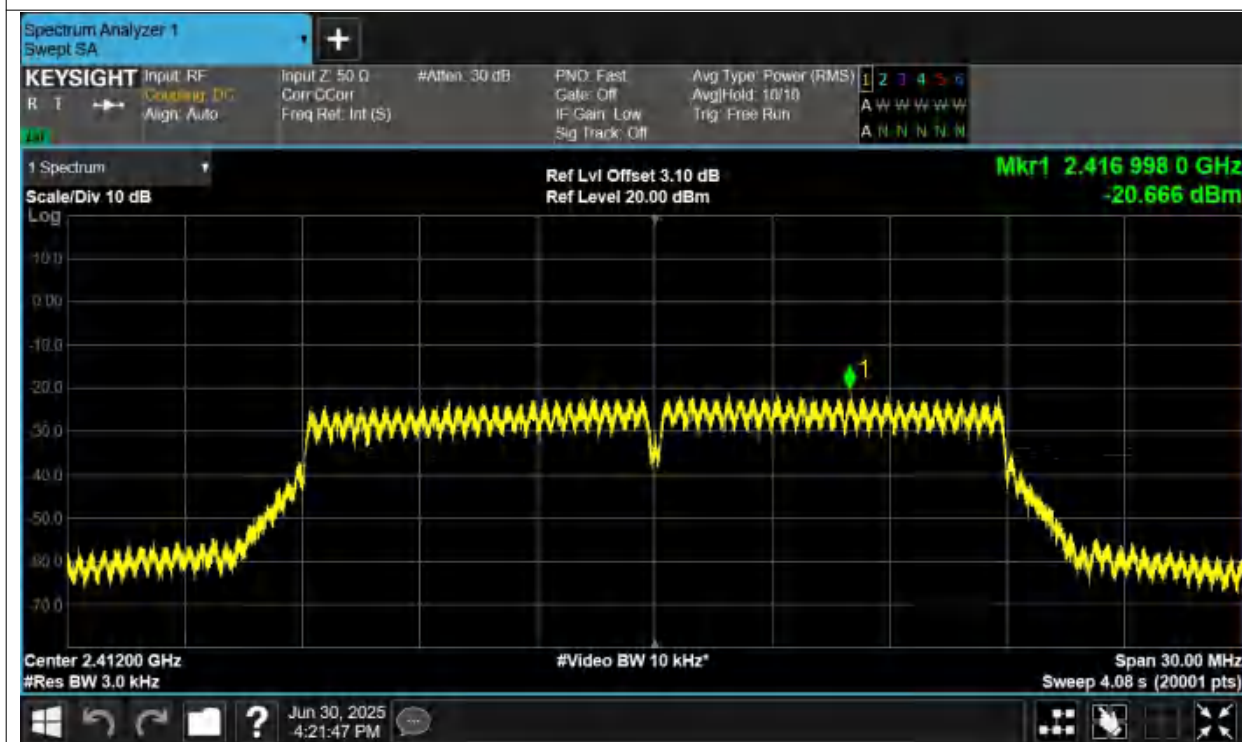
PSD NVNT g 2437MHz Ant1



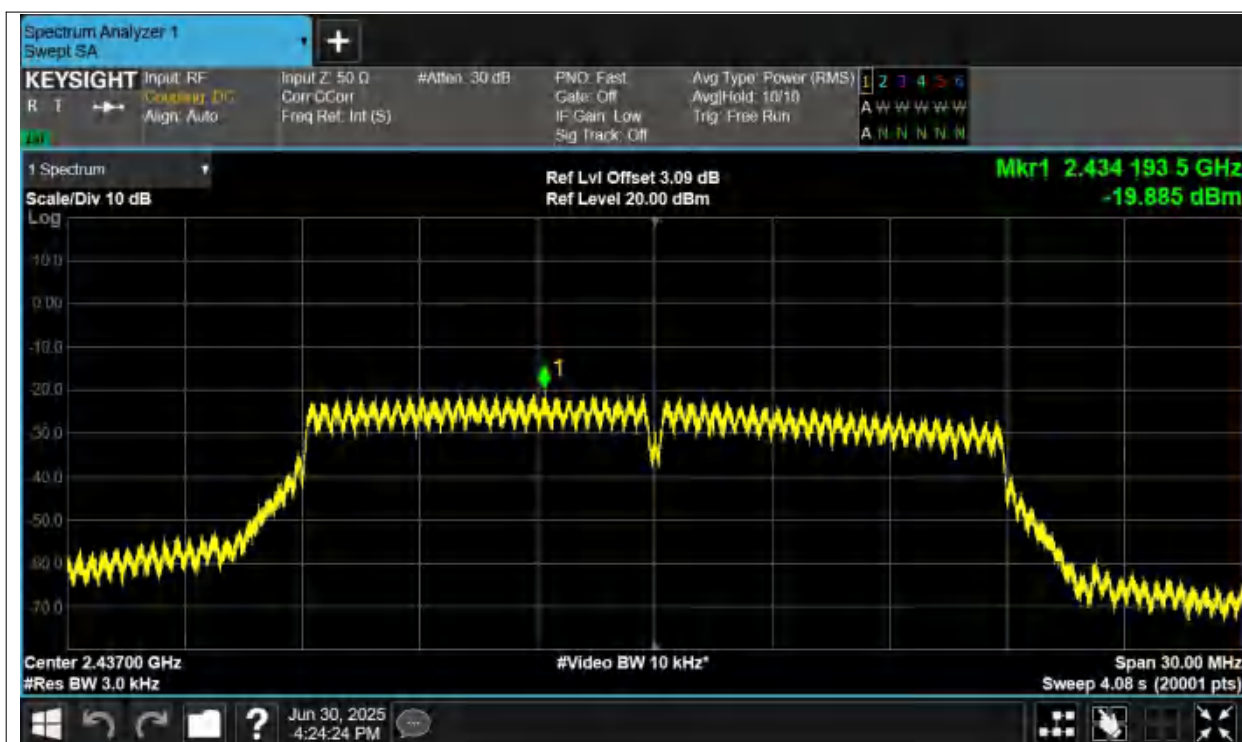
PSD NVNT g 2462MHz Ant1



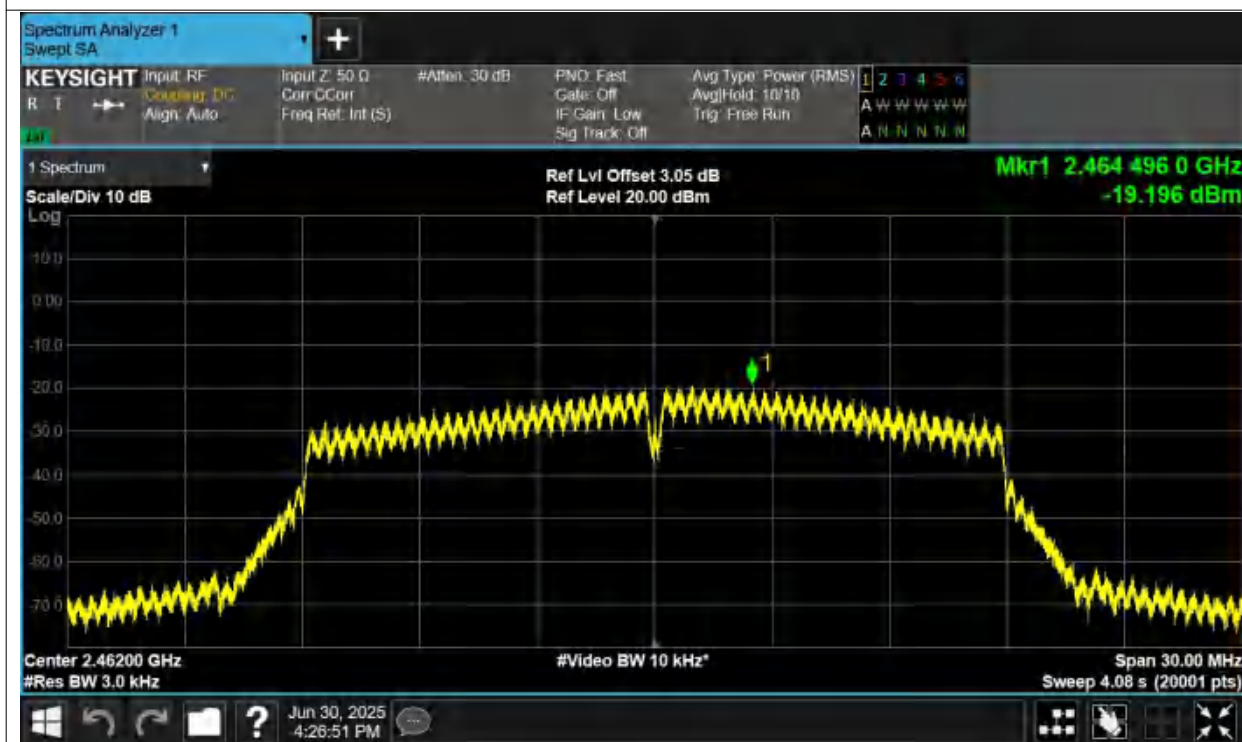
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



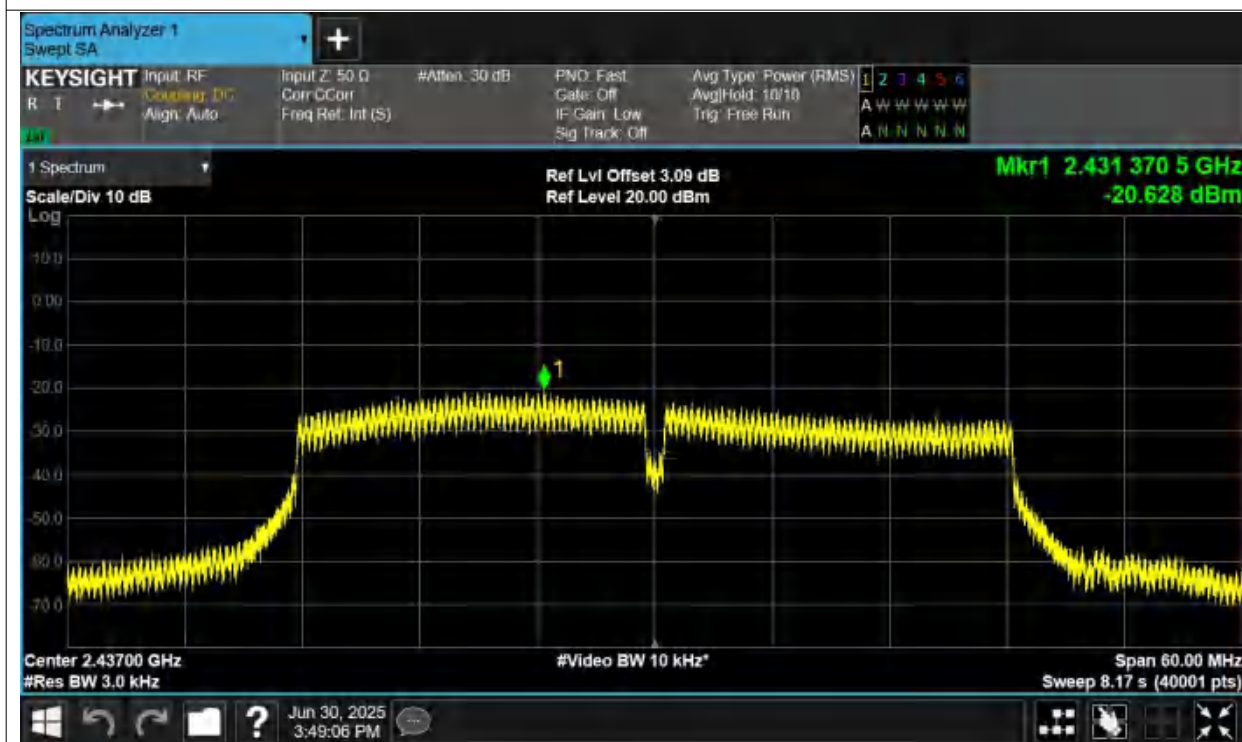
PSD NVNT n20 2462MHz Ant1



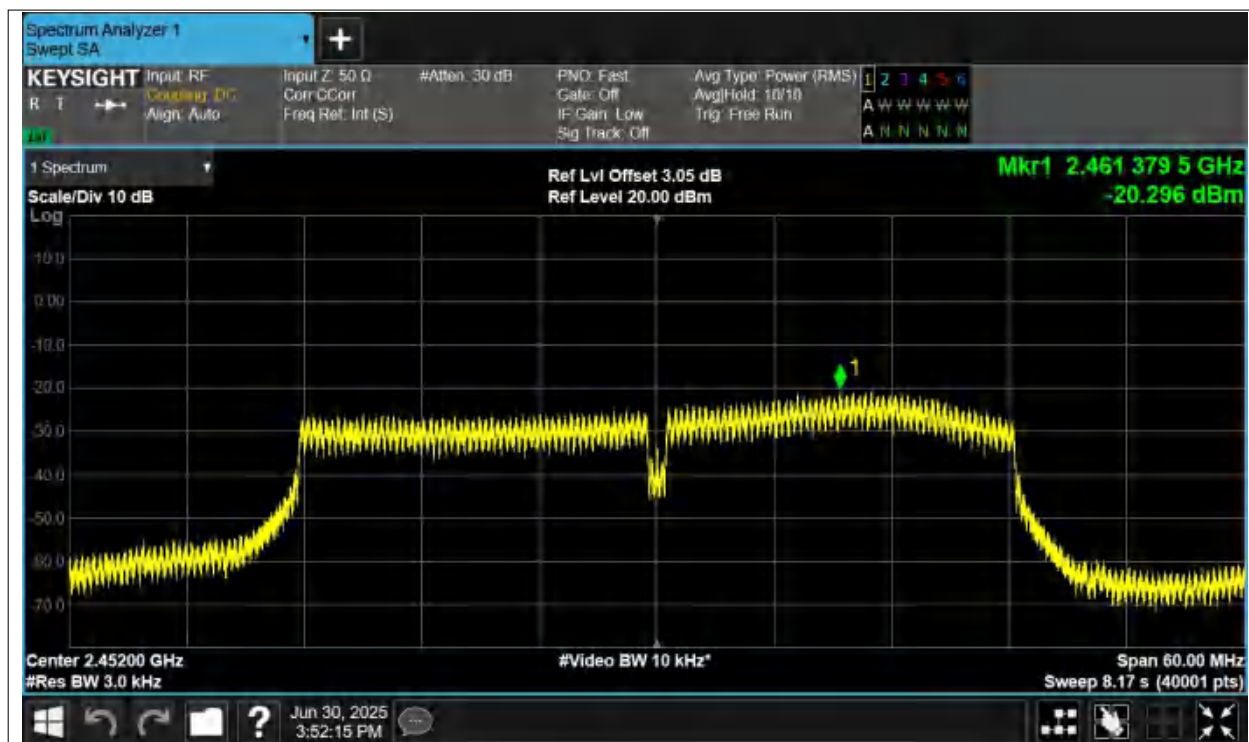
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1





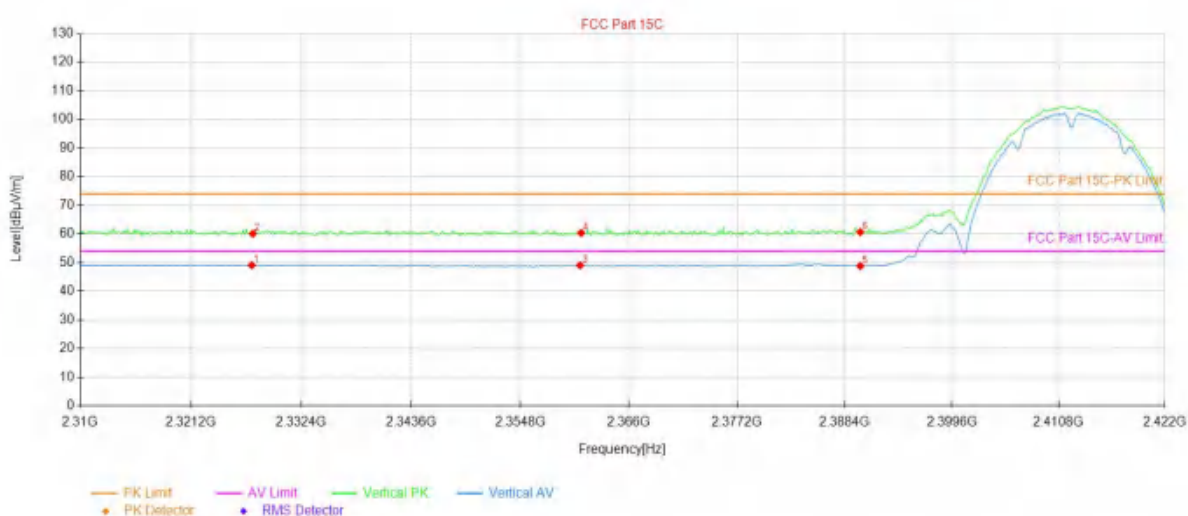
A.8. Restricted Frequency Bands

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.



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



Suspected Data List

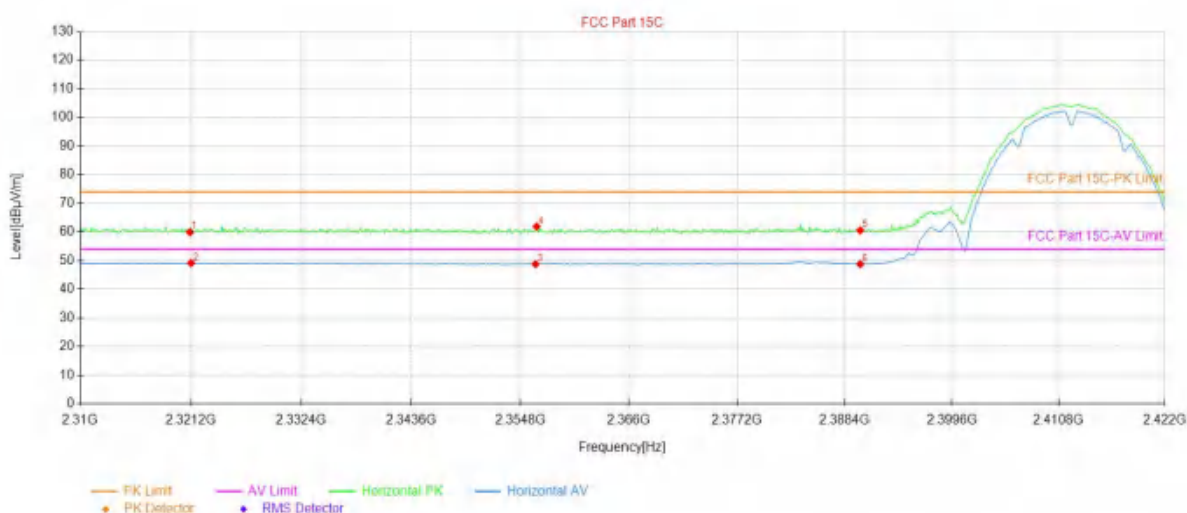
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2327.3	12.80	36.27	49.07	54.00	4.93	88	AV	PASS	Vertical
2	2327.4	23.79	36.27	60.06	74.00	13.94	149	PK	PASS	Vertical
3	2360.9	13.07	35.96	49.03	54.00	4.97	168	AV	PASS	Vertical
4	2361.0	24.36	35.96	60.32	74.00	13.68	149	PK	PASS	Vertical
5	2390.0	12.86	35.93	48.79	54.00	5.21	233	AV	PASS	Vertical
6	2390.0	24.68	35.93	60.61	74.00	13.39	354	PK	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



Suspected Data List

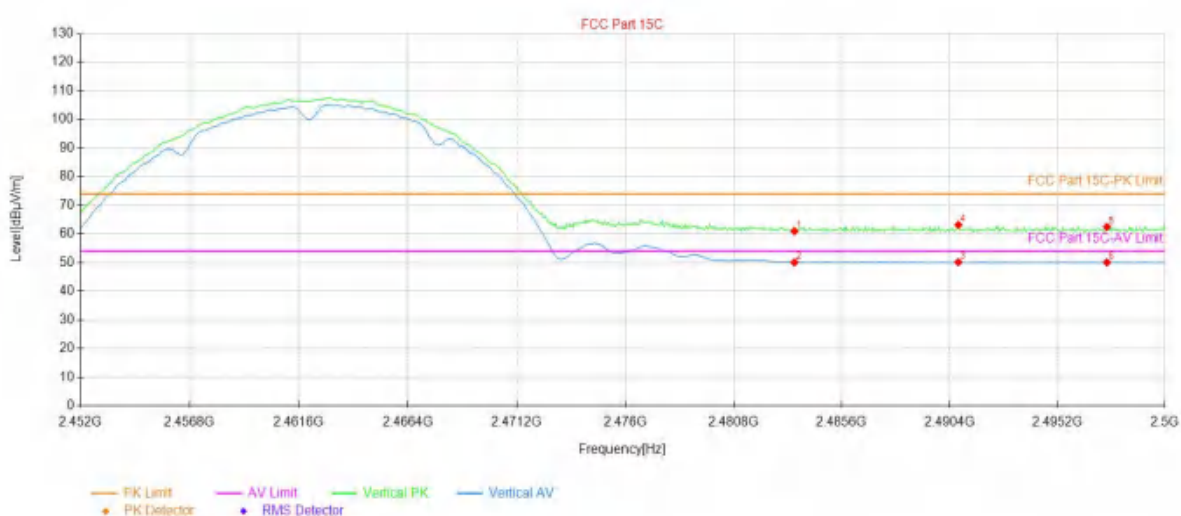
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2321.0	23.52	36.38	59.90	74.00	14.10	144	PK	PASS	Horizontal
2	2321.2	12.74	36.38	49.12	54.00	4.88	53	AV	PASS	Horizontal
3	2356.3	12.79	35.96	48.75	54.00	5.25	133	AV	PASS	Horizontal
4	2356.4	25.87	35.96	61.83	74.00	12.17	118	PK	PASS	Horizontal
5	2390.0	24.61	35.93	60.54	74.00	13.46	265	PK	PASS	Horizontal
6	2390.0	12.81	35.93	48.74	54.00	5.26	133	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



Suspected Data List

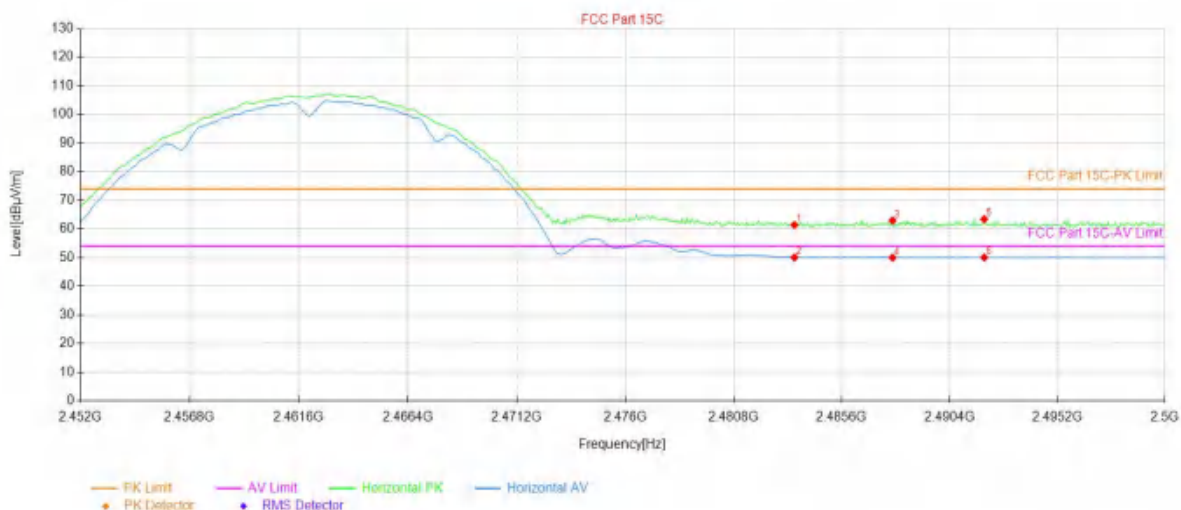
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	24.21	36.74	60.95	74.00	13.05	190	PK	PASS	Vertical
2	2483.5	13.33	36.74	50.07	54.00	3.93	280	AV	PASS	Vertical
3	2490.7	13.36	36.76	50.12	54.00	3.88	54	AV	PASS	Vertical
4	2490.7	26.36	36.76	63.12	74.00	10.88	110	PK	PASS	Vertical
5	2497.4	25.66	36.78	62.44	74.00	11.56	208	PK	PASS	Vertical
6	2497.4	13.26	36.78	50.04	54.00	3.96	103	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



Suspected Data List

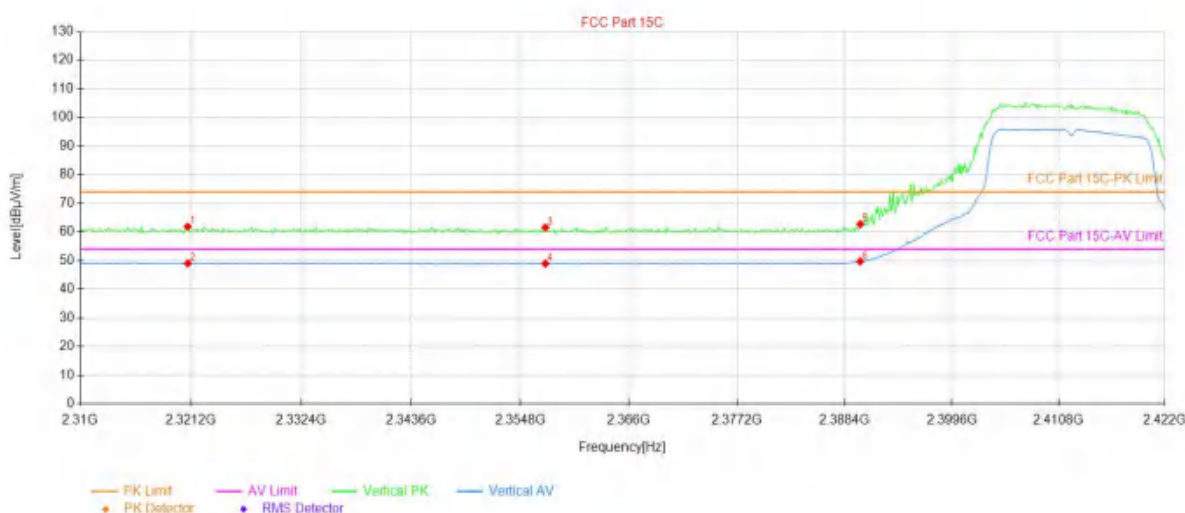
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	24.66	36.74	61.40	74.00	12.60	212	PK	PASS	Horizontal
2	2483.5	13.31	36.74	50.05	54.00	3.95	292	AV	PASS	Horizontal
3	2487.8	26.14	36.75	62.89	74.00	11.11	182	PK	PASS	Horizontal
4	2487.8	13.21	36.75	49.96	54.00	4.04	212	AV	PASS	Horizontal
5	2491.9	26.65	36.76	63.41	74.00	10.59	0	PK	PASS	Horizontal
6	2491.9	13.27	36.76	50.03	54.00	3.97	208	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



Suspected Data List

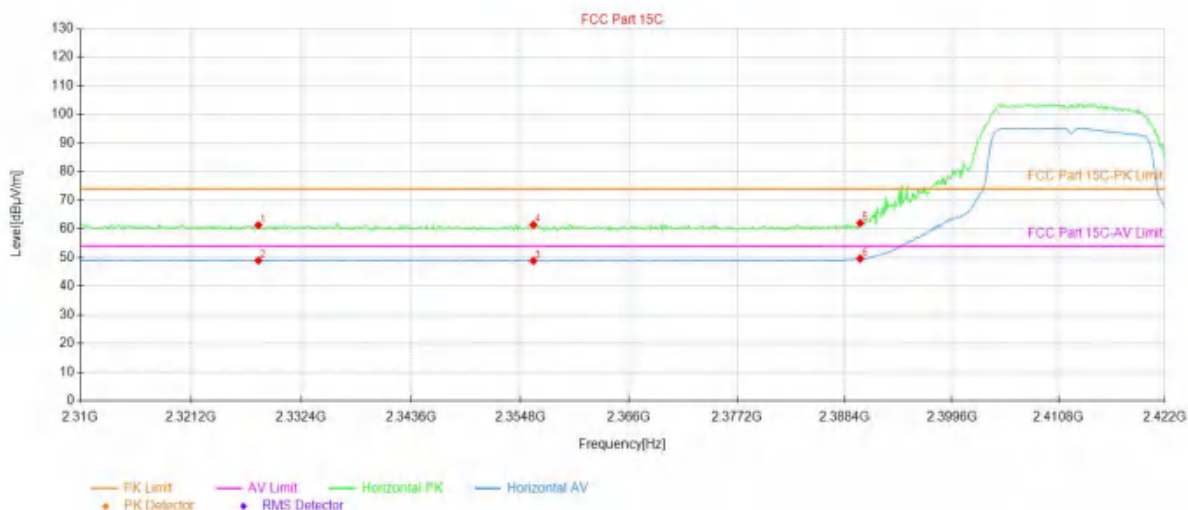
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2320.8	25.44	36.39	61.83	74.00	12.17	310	PK	PASS	Vertical
2	2320.8	12.61	36.39	49.00	54.00	5.00	8	AV	PASS	Vertical
3	2357.3	25.57	35.96	61.53	74.00	12.47	91	PK	PASS	Vertical
4	2357.3	12.97	35.96	48.93	54.00	5.07	42	AV	PASS	Vertical
5	2390.0	26.74	35.93	62.67	74.00	11.33	268	PK	PASS	Vertical
6	2390.0	13.80	35.93	49.73	54.00	4.27	260	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



Suspected Data List

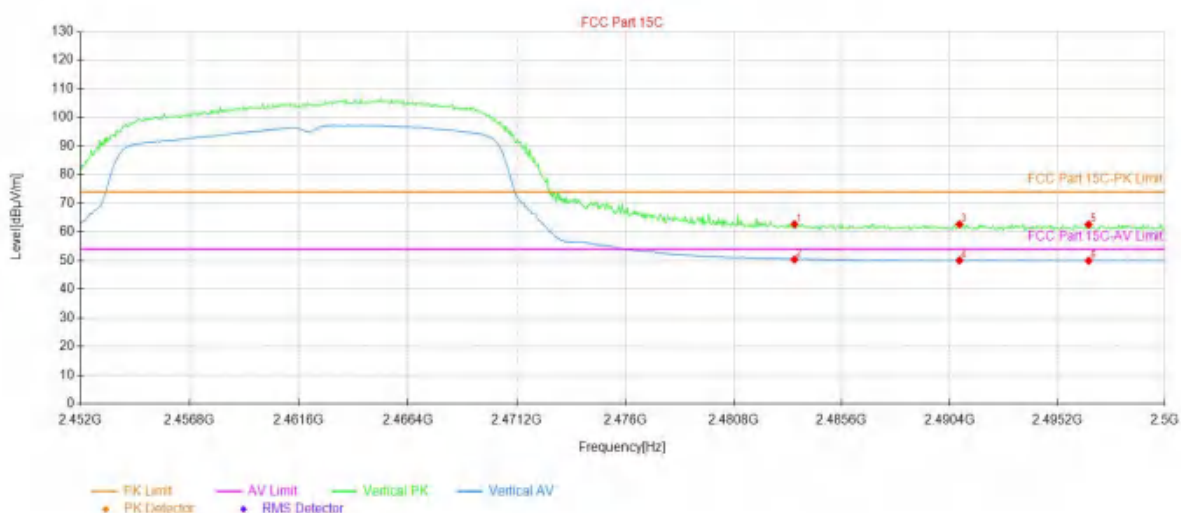
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2328.0	25.03	36.26	61.29	74.00	12.71	187	PK	PASS	Horizontal
2	2328.0	12.70	36.26	48.96	54.00	5.04	307	AV	PASS	Horizontal
3	2356.1	12.87	35.97	48.84	54.00	5.16	53	AV	PASS	Horizontal
4	2356.1	25.45	35.97	61.42	74.00	12.58	175	PK	PASS	Horizontal
5	2390.0	26.06	35.93	61.99	74.00	12.01	288	PK	PASS	Horizontal
6	2390.0	13.69	35.93	49.62	54.00	4.38	213	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



Suspected Data List

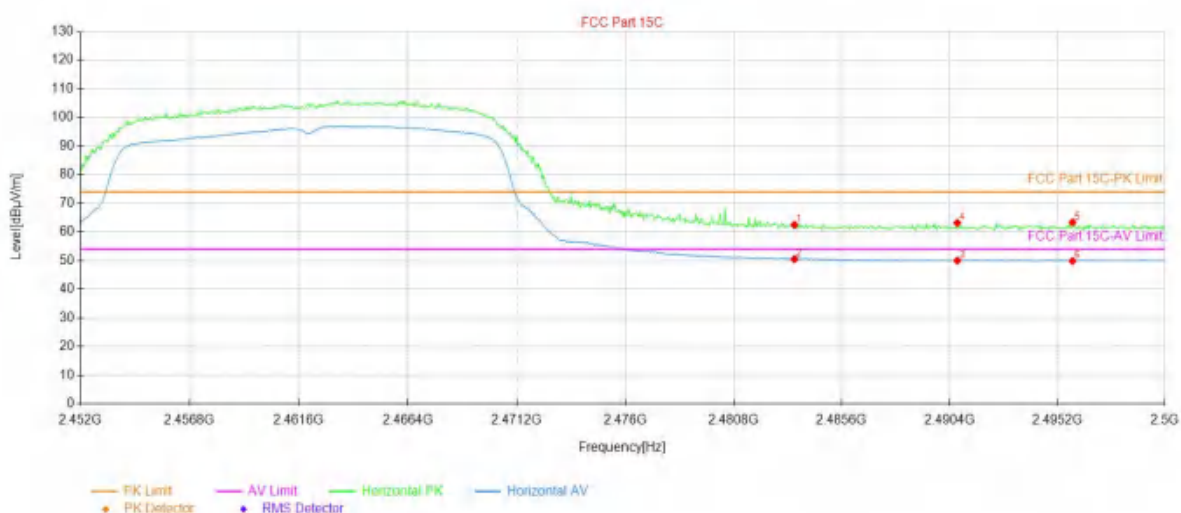
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	25.93	36.74	62.67	74.00	11.33	246	PK	PASS	Vertical
2	2483.5	13.62	36.74	50.36	54.00	3.64	227	AV	PASS	Vertical
3	2490.8	25.88	36.76	62.64	74.00	11.36	186	PK	PASS	Vertical
4	2490.8	13.25	36.76	50.01	54.00	3.99	284	AV	PASS	Vertical
5	2496.5	25.78	36.77	62.55	74.00	11.45	153	PK	PASS	Vertical
6	2496.5	13.16	36.77	49.93	54.00	4.07	178	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



Suspected Data List

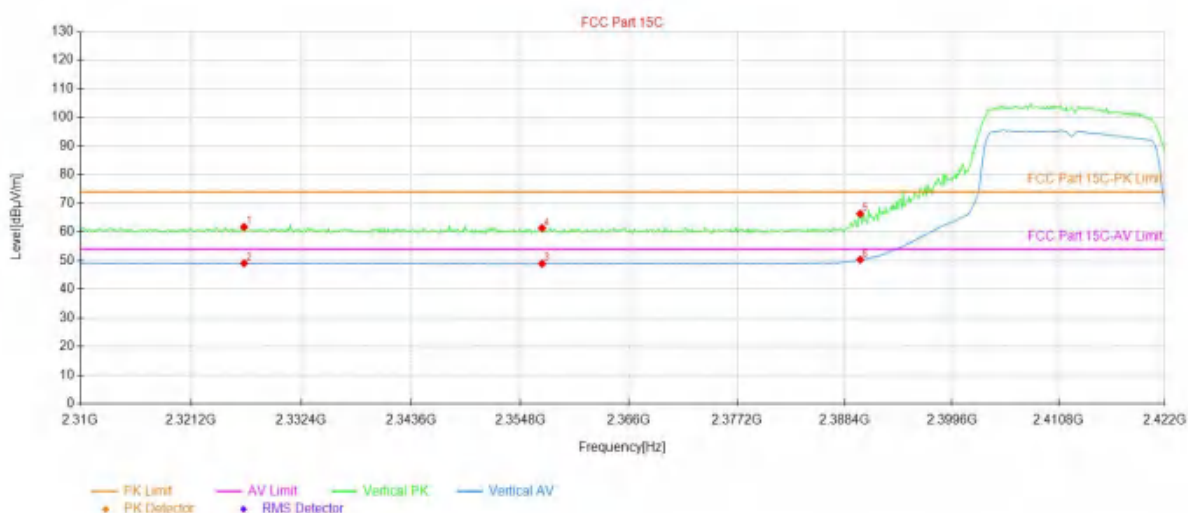
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	25.71	36.74	62.45	74.00	11.55	288	PK	PASS	Horizontal
2	2483.5	13.73	36.74	50.47	54.00	3.53	212	AV	PASS	Horizontal
3	2490.7	13.20	36.76	49.96	54.00	4.04	239	AV	PASS	Horizontal
4	2490.7	26.33	36.76	63.09	74.00	10.91	40	PK	PASS	Horizontal
5	2495.8	26.56	36.77	63.33	74.00	10.67	235	PK	PASS	Horizontal
6	2495.8	13.07	36.77	49.84	54.00	4.16	299	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



Suspected Data List

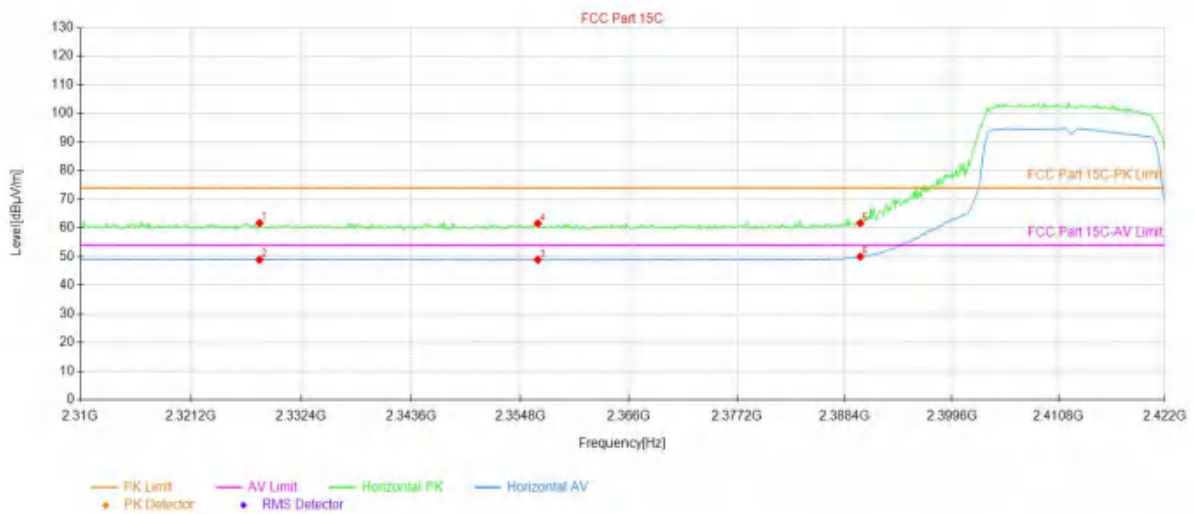
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2326.5	25.39	36.28	61.67	74.00	12.33	275	PK	PASS	Vertical
2	2326.5	12.73	36.28	49.01	54.00	4.99	72	AV	PASS	Vertical
3	2357.0	12.93	35.96	48.89	54.00	5.11	328	AV	PASS	Vertical
4	2357.0	25.35	35.96	61.31	74.00	12.69	123	PK	PASS	Vertical
5	2390.0	30.37	35.93	66.30	74.00	7.70	244	PK	PASS	Vertical
6	2390.0	14.37	35.93	50.30	54.00	3.70	271	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2328.1	25.43	36.26	61.69	74.00	12.31	108	PK	PASS	Horizontal
2	2328.1	12.63	36.26	48.89	54.00	5.11	348	AV	PASS	Horizontal
3	2356.5	12.90	35.96	48.86	54.00	5.14	2	AV	PASS	Horizontal
4	2356.5	25.58	35.96	61.54	74.00	12.46	352	PK	PASS	Horizontal
5	2390.0	25.68	35.93	61.61	74.00	12.39	210	PK	PASS	Horizontal
6	2390.0	14.02	35.93	49.95	54.00	4.05	217	AV	PASS	Horizontal

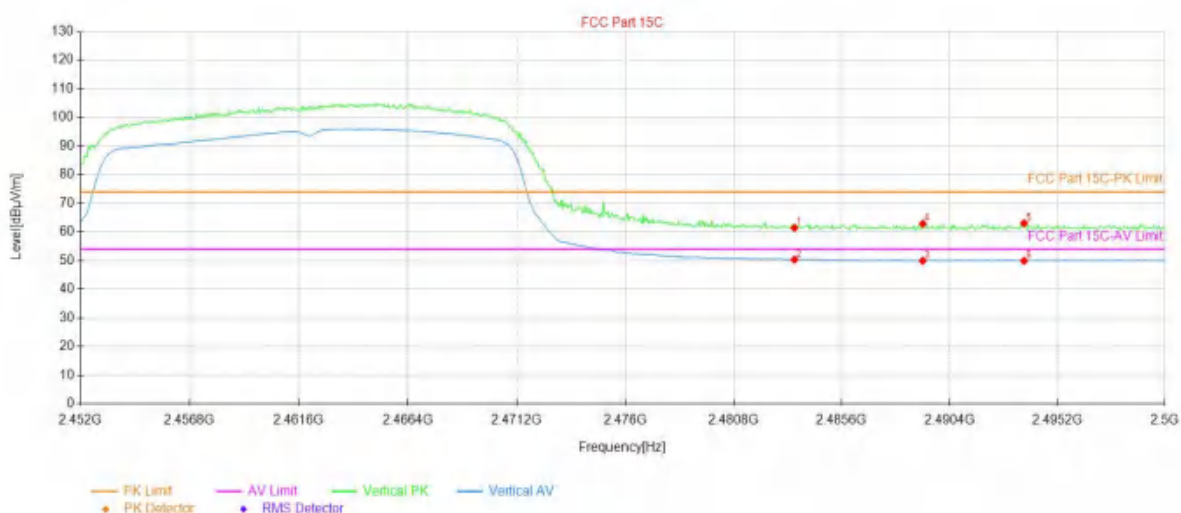
Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



REPORT No.: SZ25090313W04

Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		

**Suspected Data List**

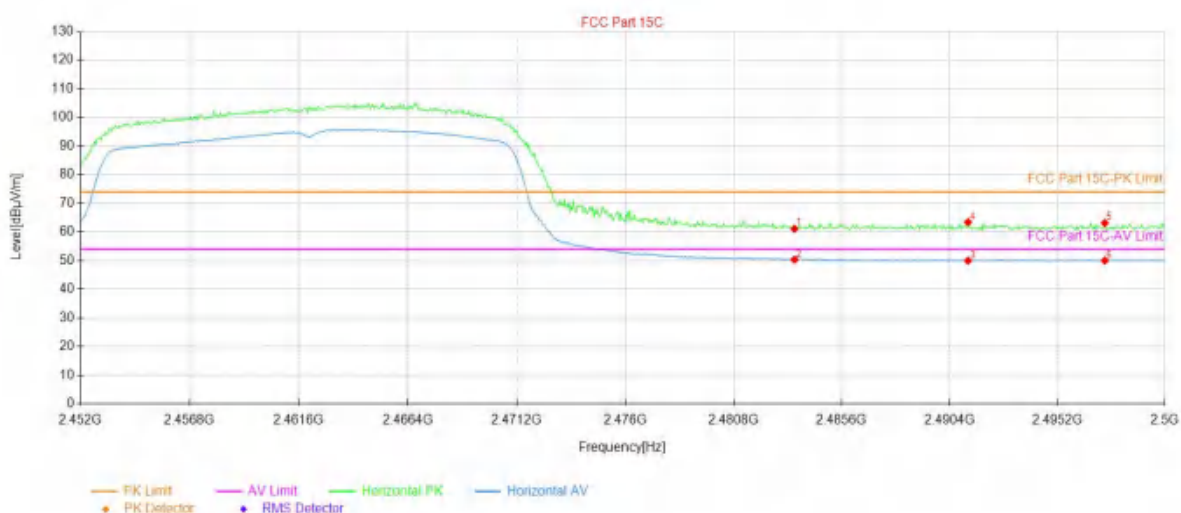
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	24.67	36.74	61.41	74.00	12.59	237	PK	PASS	Vertical
2	2483.5	13.57	36.74	50.31	54.00	3.69	256	AV	PASS	Vertical
3	2489.2	13.19	36.75	49.94	54.00	4.06	309	AV	PASS	Vertical
4	2489.2	26.08	36.75	62.83	74.00	11.17	200	PK	PASS	Vertical
5	2493.7	26.23	36.76	62.99	74.00	11.01	290	PK	PASS	Vertical
6	2493.7	13.15	36.76	49.91	54.00	4.09	237	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



Suspected Data List

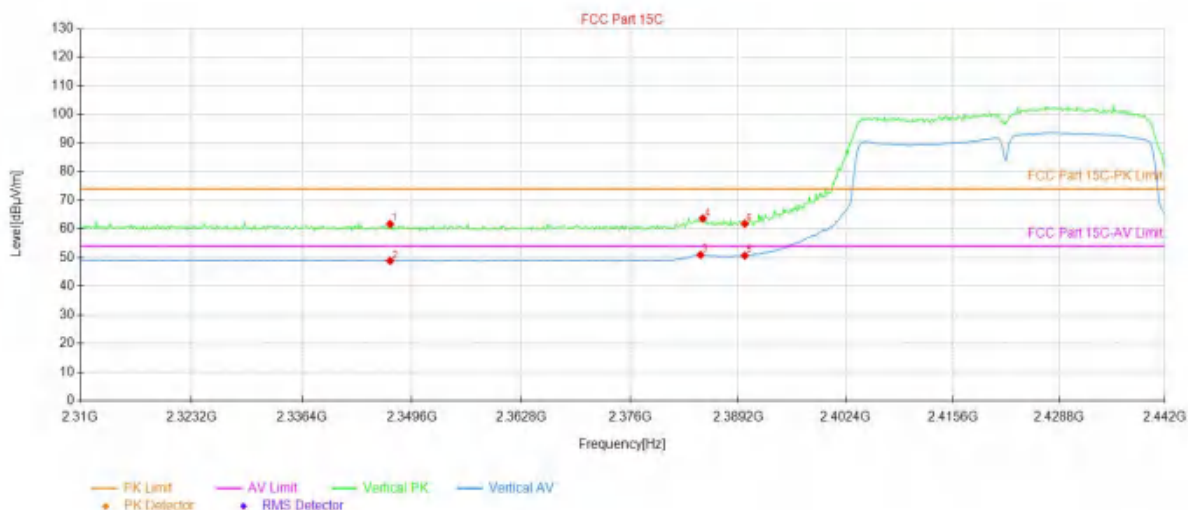
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	24.32	36.74	61.06	74.00	12.94	90	PK	PASS	Horizontal
2	2483.5	13.57	36.74	50.31	54.00	3.69	295	AV	PASS	Horizontal
3	2491.2	13.16	36.76	49.92	54.00	4.08	94	AV	PASS	Horizontal
4	2491.2	26.59	36.76	63.35	74.00	10.65	90	PK	PASS	Horizontal
5	2497.3	26.30	36.78	63.08	74.00	10.92	64	PK	PASS	Horizontal
6	2497.3	13.20	36.78	49.98	54.00	4.02	344	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



Suspected Data List

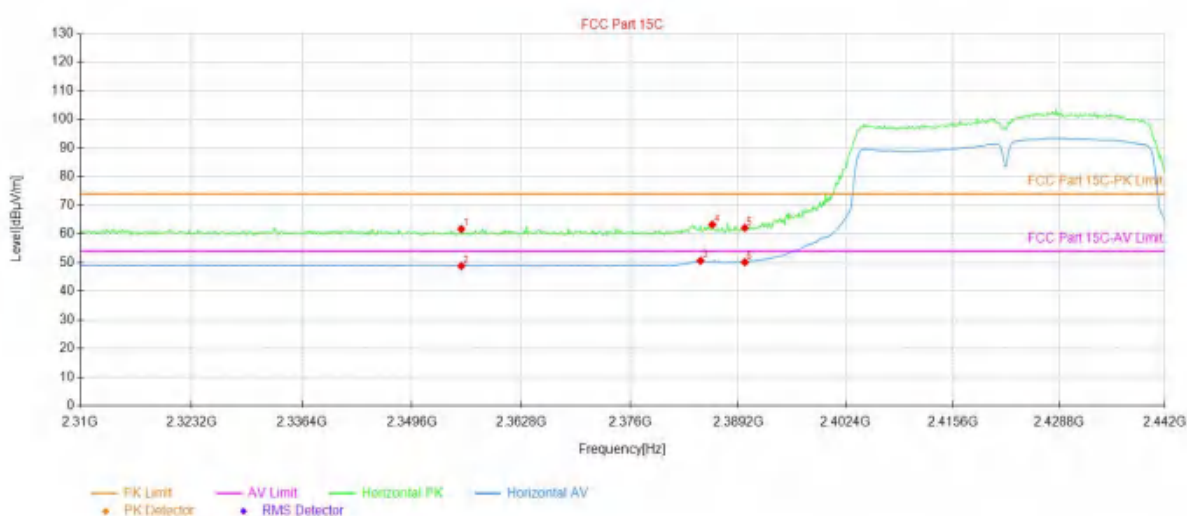
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2346.9	25.66	36.01	61.67	74.00	12.33	122	PK	PASS	Vertical
2	2346.9	12.85	36.01	48.86	54.00	5.14	157	AV	PASS	Vertical
3	2384.5	14.98	35.93	50.91	54.00	3.09	271	AV	PASS	Vertical
4	2384.8	27.69	35.93	63.62	74.00	10.38	274	PK	PASS	Vertical
5	2390.0	14.73	35.93	50.66	54.00	3.34	267	AV	PASS	Vertical
6	2390.0	25.87	35.93	61.80	74.00	12.20	278	PK	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



Suspected Data List

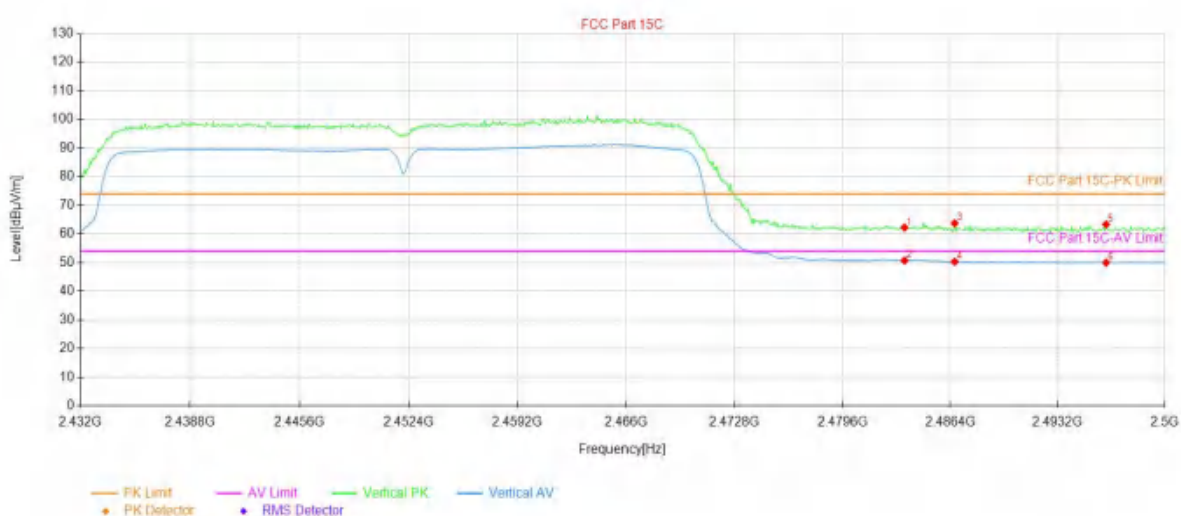
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2355.5	25.69	35.97	61.66	74.00	12.34	20	PK	PASS	Horizontal
2	2355.5	12.81	35.97	48.78	54.00	5.22	328	AV	PASS	Horizontal
3	2384.5	14.69	35.93	50.62	54.00	3.38	286	AV	PASS	Horizontal
4	2386.0	27.29	35.94	63.23	74.00	10.77	286	PK	PASS	Horizontal
5	2390.0	26.18	35.93	62.11	74.00	11.89	286	PK	PASS	Horizontal
6	2390.0	14.17	35.93	50.10	54.00	3.90	290	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		

**Suspected Data List**

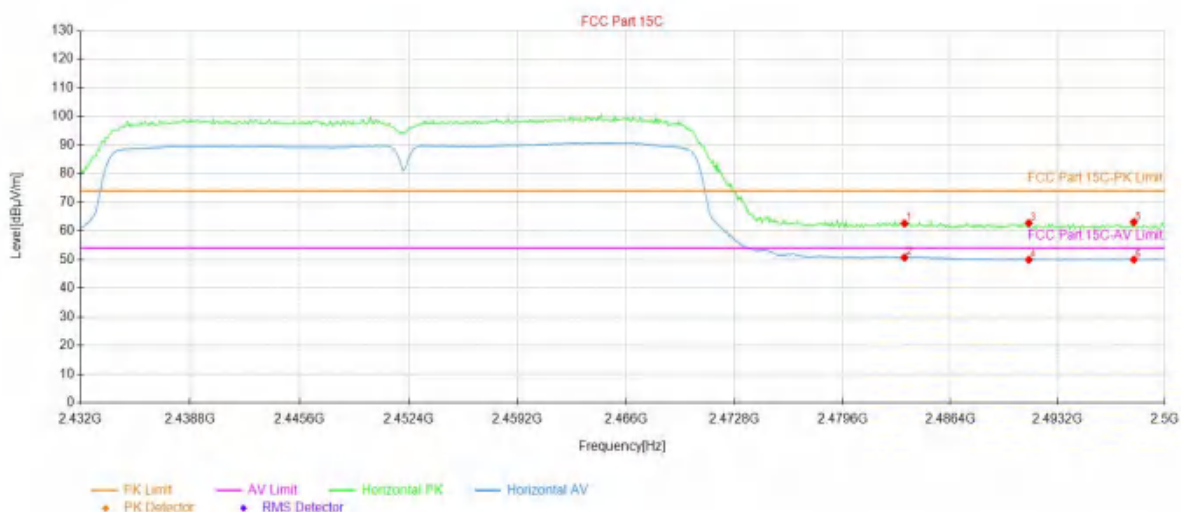
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	25.45	36.74	62.19	74.00	11.81	244	PK	PASS	Vertical
2	2483.5	13.94	36.74	50.68	54.00	3.32	263	AV	PASS	Vertical
3	2486.6	26.93	36.75	63.68	74.00	10.32	285	PK	PASS	Vertical
4	2486.6	13.52	36.75	50.27	54.00	3.73	237	AV	PASS	Vertical
5	2496.2	26.52	36.77	63.29	74.00	10.71	83	PK	PASS	Vertical
6	2496.2	13.20	36.77	49.97	54.00	4.03	357	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	25.83	36.74	62.57	74.00	11.43	129	PK	PASS	Horizontal
2	2483.5	13.93	36.74	50.67	54.00	3.33	292	AV	PASS	Horizontal
3	2491.3	25.92	36.76	62.68	74.00	11.32	292	PK	PASS	Horizontal
4	2491.3	13.17	36.76	49.93	54.00	4.07	208	AV	PASS	Horizontal
5	2498.0	26.29	36.77	63.06	74.00	10.94	5	PK	PASS	Horizontal
6	2498.0	13.20	36.77	49.97	54.00	4.03	61	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)



A.9. 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.

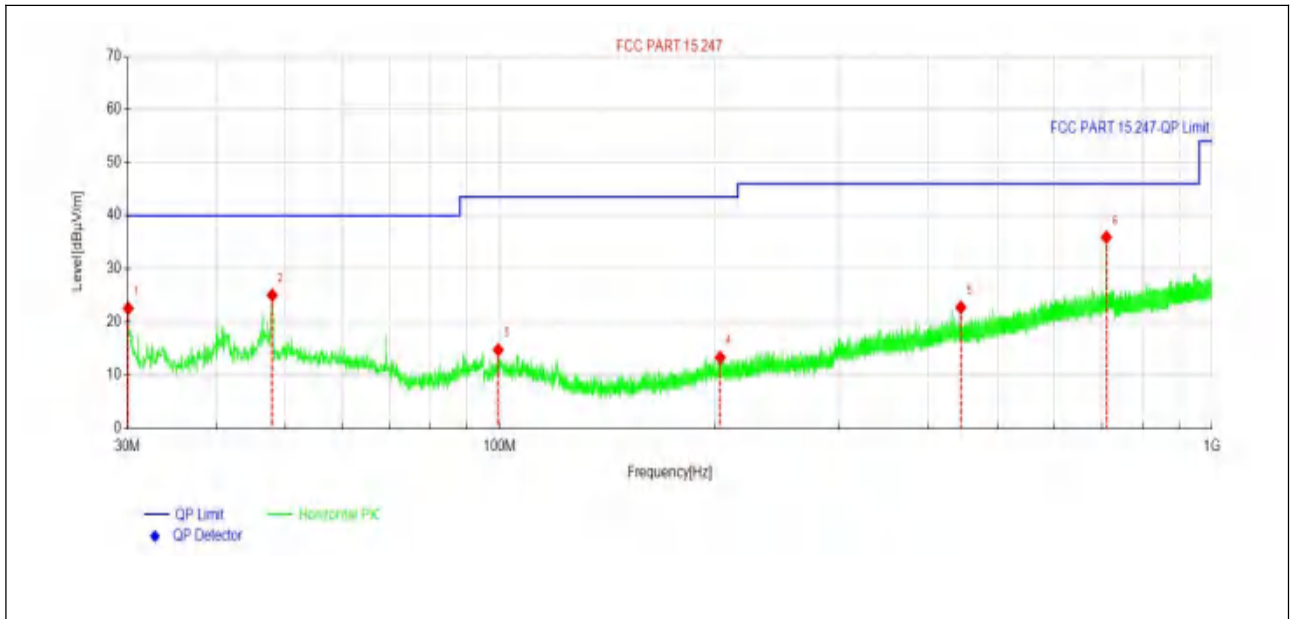
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

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.

**802.11b Mode**

Plot for Channel 1



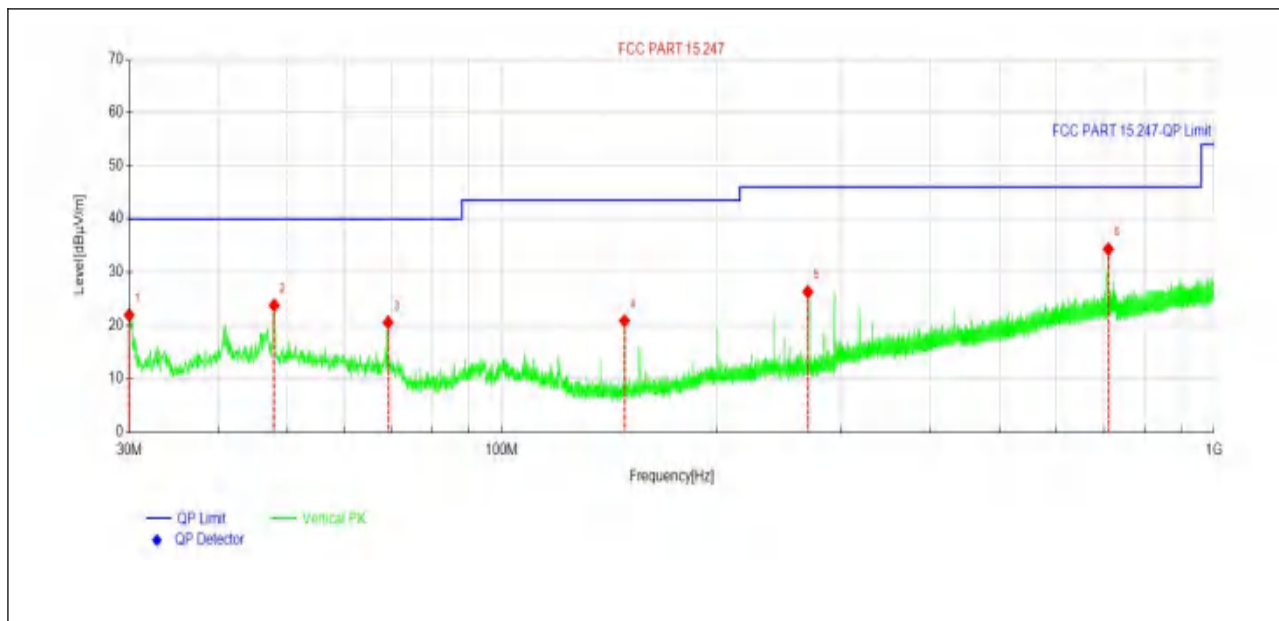
(Antenna Horizontal, 30MHz to 1GHz)

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	30.0970	37.83	-15.29	22.54	40.00	17.46	PK	Horizontal
2	47.9459	37.43	-12.42	25.01	40.00	14.99	PK	Horizontal
3	99.5525	29.20	-14.47	14.73	43.50	28.77	PK	Horizontal
4	204.026	28.22	-14.93	13.29	43.50	30.21	PK	Horizontal
5	444.016	32.32	-9.60	22.72	46.00	23.28	PK	Horizontal
6	710.877	40.87	-4.96	35.91	46.00	10.09	PK	Horizontal

(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2662.9326	38.30	-19.37	74.00	35.70	150	15	Horizontal	PASS
3812.3625	43.15	-14.41	74.00	30.85	150	15	Horizontal	PASS
4822.3645	47.67	-10.35	74.00	26.33	150	216	Horizontal	PASS
7236.8474	53.36	-2.69	74.00	20.64	150	341	Horizontal	PASS
9848.5697	42.12	1.57	74.00	31.88	150	173	Horizontal	PASS
13058.8118	44.22	6.18	74.00	29.78	150	89	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	30.0000	37.22	-15.26	21.96	40.00	18.04	PK	Vertical
2	47.9459	36.19	-12.42	23.77	40.00	16.23	PK	Vertical
3	69.2870	36.84	-16.28	20.56	40.00	19.44	PK	Vertical
4	148.733	38.79	-17.94	20.85	43.50	22.65	PK	Vertical
5	268.971	39.73	-13.42	26.31	46.00	19.69	PK	Vertical
6	710.877	39.28	-4.96	34.32	46.00	11.68	PK	Vertical



802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	59.73	-7.92	51.81	74.00	22.19	Vertical
4824.00	62.97	-7.92	55.05	74.00	18.95	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	53.72	-7.92	45.80	54.00	8.20	Vertical
4824.00	56.77	-7.92	48.85	54.00	5.15	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	59.76	-7.55	52.21	74.00	21.79	Vertical
4874.00	62.54	-7.55	54.99	74.00	19.01	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	53.58	-7.55	46.03	54.00	7.97	Vertical
4874.00	56.70	-7.55	49.15	54.00	4.85	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	59.80	-7.21	52.59	74.00	21.41	Vertical
4924.00	62.83	-7.21	55.62	74.00	18.38	Horizontal
Detector: Average Value						
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization



(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.00	53.56	-7.21	46.35	54.00	7.65	Vertical
4924.00	56.63	-7.21	49.42	54.00	4.58	Horizontal
Remark: 1. <i>Level = Reading + Factor.</i> 2. <i>Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						

802.11g						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	59.47	-7.82	51.65	74.00	22.35	Vertical
4824.00	62.54	-7.82	54.72	74.00	19.28	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	53.47	-7.82	45.65	54.00	8.35	Vertical
4824.00	56.41	-7.82	48.59	54.00	5.41	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	59.58	-7.50	52.08	74.00	21.92	Vertical
4874.00	62.50	-7.50	55.00	74.00	19.00	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	53.84	-7.50	46.34	54.00	7.66	Vertical
4874.00	56.41	-7.50	48.91	54.00	5.09	Horizontal



Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	59.48	-7.21	52.27	74.00	21.73	Vertical
4924.00	62.76	-7.21	55.55	74.00	18.45	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	53.74	-7.21	46.53	54.00	7.47	Vertical
4924.00	56.31	-7.21	49.10	54.00	4.90	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	59.51	-7.82	51.69	74.00	22.31	Vertical
4824.00	62.55	-7.82	54.73	74.00	19.27	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	53.71	-7.82	45.89	54.00	8.11	Vertical
4824.00	56.52	-7.82	48.70	54.00	5.30	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization



4874.00	59.61	-7.50	52.11	74.00	21.89	Vertical
4874.00	62.59	-7.50	55.09	74.00	18.91	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	53.65	-7.50	46.15	54.00	7.85	Vertical
4874.00	56.74	-7.50	49.24	54.00	4.76	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	59.48	-7.21	52.27	74.00	21.73	Vertical
4924.00	62.70	-7.21	55.49	74.00	18.51	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	53.73	-7.21	46.52	54.00	7.48	Vertical
4924.00	56.47	-7.21	49.26	54.00	4.74	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

802.11n-HT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	59.26	-7.65	51.61	74.00	22.39	Vertical
4844.00	62.58	-7.65	54.93	74.00	19.07	Horizontal
Detector: Average Value						
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization



(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844.00	53.76	-7.65	46.11	54.00	7.89	Vertical
4844.00	56.64	-7.65	48.99	54.00	5.01	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	59.27	-7.50	51.77	74.00	22.23	Vertical
4874.00	62.57	-7.50	55.07	74.00	18.93	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	53.26	-7.50	45.76	54.00	8.24	Vertical
4874.00	56.40	-7.50	48.90	54.00	5.10	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	59.55	-7.35	52.20	74.00	21.80	Vertical
4904.00	62.66	-7.35	55.31	74.00	18.69	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	53.58	-7.35	46.23	54.00	7.77	Vertical
4904.00	56.59	-7.35	49.24	54.00	4.76	Horizontal
Remark:						
1. Level = Reading + Factor.						
2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

— END OF REPORT —