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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DIRECTORY

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. 08, 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 Analzyer	MY53470836	N9010A	Agilent	2025.01.15	2026.01.14
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	01774	BBHA 9120D	Schwarzbeck	2025.06.20	2026.06.19
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2025.06.20	2026.06.19
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.09.11	2025.09.10
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	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	±2.22dB	Confidence levels of 95%
Power Spectral Density	±2.22dB	Confidence levels of 95%
Bandwidth	±5%	Confidence levels of 95%
Conducted Spurious Emission	±2.77dB	Confidence levels of 95%
Restricted Frequency Bands	±5%	Confidence levels of 95%
Radiated Emission	±2.95dB	Confidence levels of 95%
Conducted Emission	±2.44dB	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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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	
Equipment Type:	Bluetooth LE	
Bluetooth Version:	5.0	
Modulation Type:	GFSK	
Data Rate:	1Mbps, 2Mbps, 125 kbps (LE Coded PHY, S=8), 500 kbps (LE Coded PHY, S=2)	
Operating Frequency Range:	2402MHz-2480MHz	
Antenna Type:	Internal Antenna	
Antenna Gain:	0.95dBi	
Accessory Information:	Battery	
	Brand Name:	hotpepper
	Model No.:	HLP2504G50
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Shenzhen Aerospace Electronic Co., Ltd.

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

2.3. Channel List of EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	**2402**	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	**19**	**2440**	29	2460	**39**	**2480**

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

2.4. Test Configuration of EUT

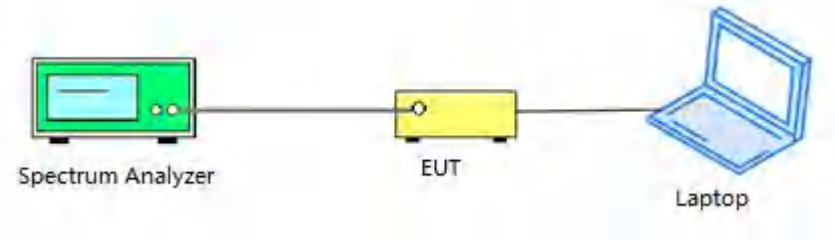
The EUT is controlled by dedicated software to transmit at the default maximum power level.

2.5. Test Conditions

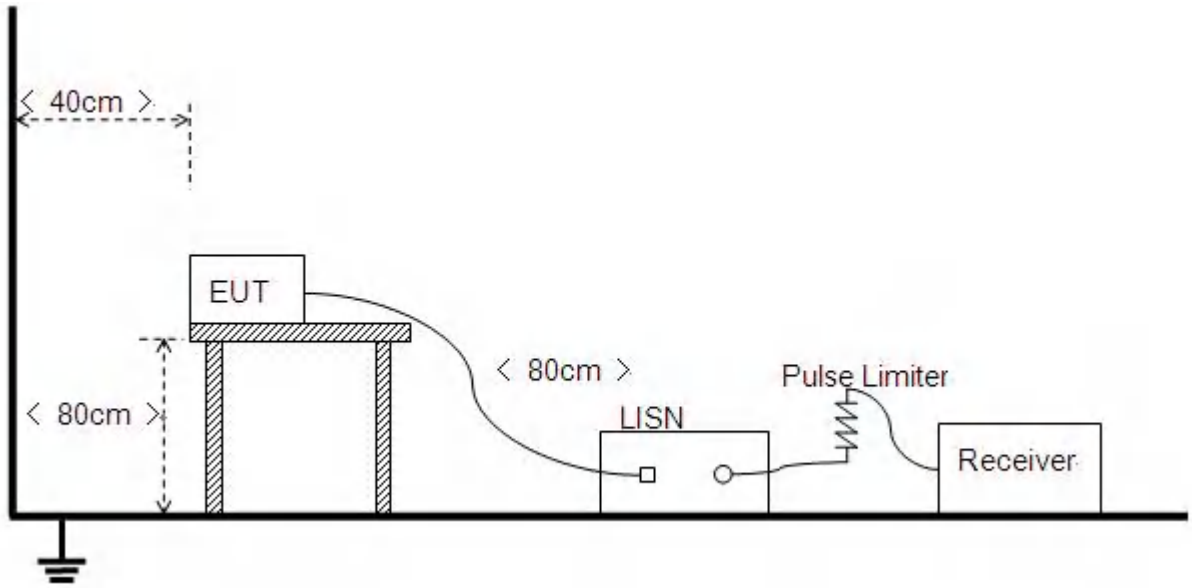
Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.6. Test Setup Layout Diagram

2.6.1.Conducted Measurement

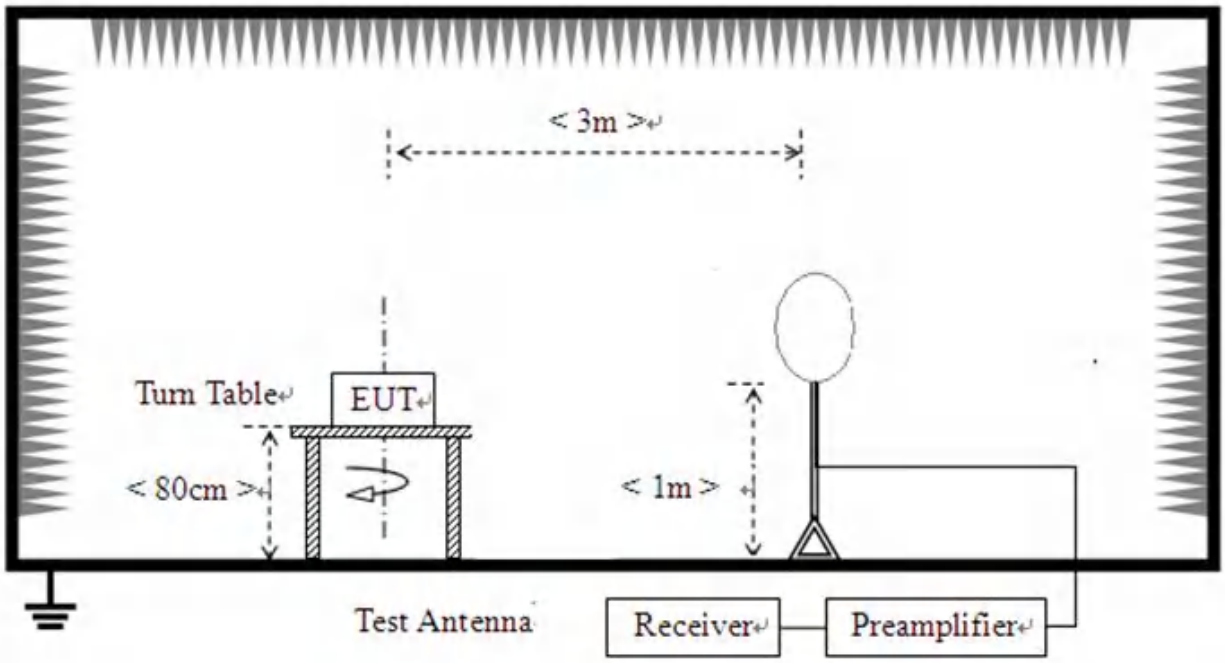


2.6.2.Conducted Emission Measurement

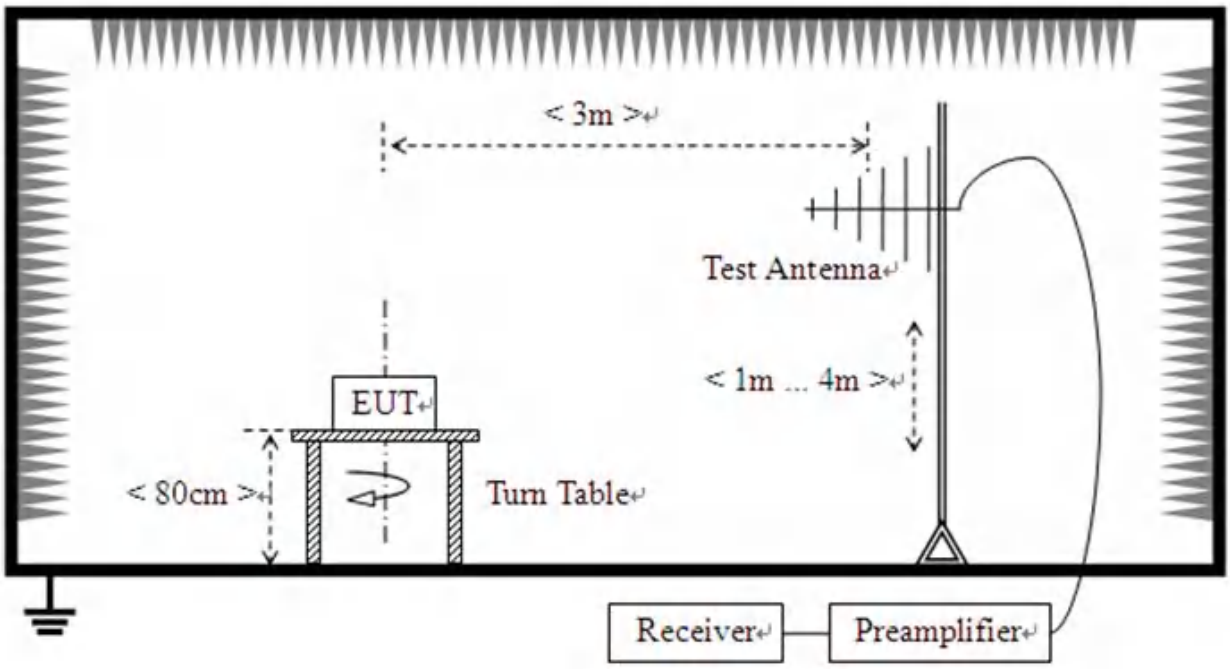


2.6.3.Radiation Measurement

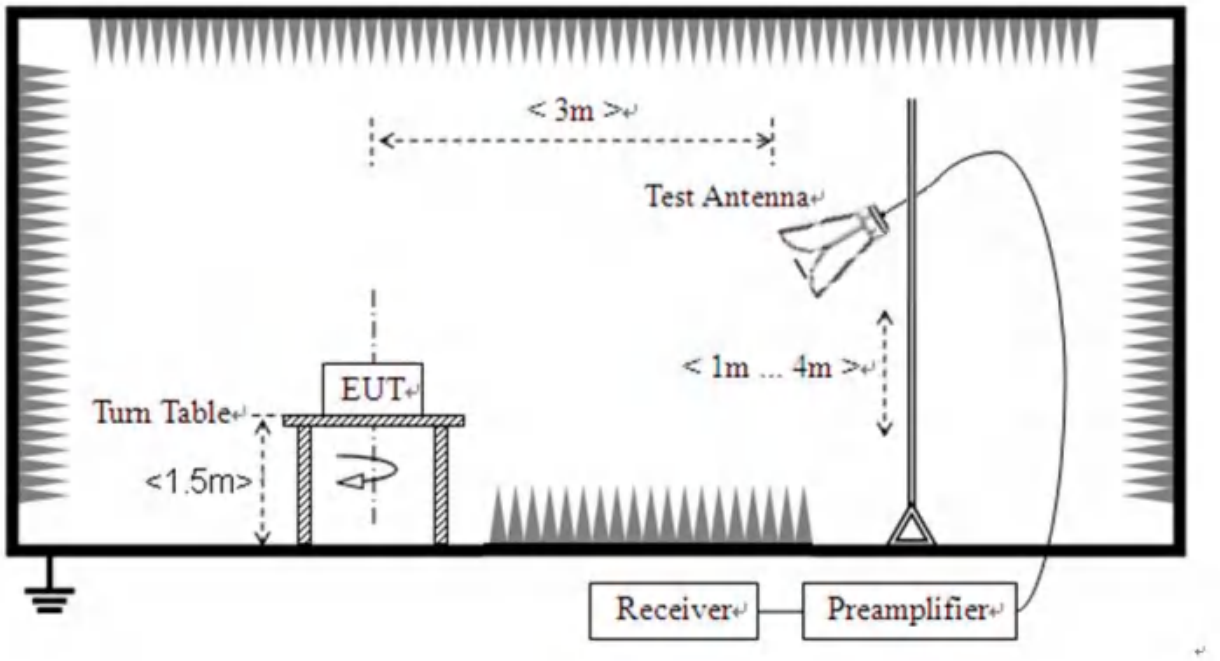
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



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 ±2%; otherwise, the duty cycle is considered to be non constant.

3.2.2.Test Result

Refer to Annex A in this report.

3.3. Maximum Peak 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 peak conducted output power of the intentional radiator shall not exceed 1 Watt.

3.3.2.Test Procedures

KDB 558074 Section 8.3.1 was used in order to prove compliance.

3.3.3.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4.Test Result

Refer to Annex A in this report.

3.4. Maximum Average Conducted Output Power

3.4.1.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 average conducted output power of the intentional radiator shall not exceed 1 Watt.

3.4.2.Test Procedures

KDB 558074 Section 8.3.2 was used in order to prove compliance.

3.4.3.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.4.Test Result

Refer to Annex A in this report.

3.5.6 dB Bandwidth

3.5.1.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.

3.5.1.Test Procedures

The steps for the first option are as follows:
a) Set analyzer center frequency to channel center frequency
b) Set RBW to100kHz
c) Set VBW to 300kHz
d) Detector = peak.
e) Trace mode = max hold
f) Sweep time = auto couple
g) Allow the trace to fully stabilize
h) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by6 dB relative to the maximum level measured in the fundamental emission
The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 ×RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥6 dB.

3.5.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.3.Test Result

Refer to Annex A in this report.

3.6. Conducted Spurious Emissions and Band Edge

3.6.1.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.

3.6.2.Test Procedures

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

3.6.3.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.6.4.Test Result

Refer to Annex A in this report.

3.7. Power Spectral Density

3.7.1.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.

3.7.2.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 to1.5 times DTS

c) Set RBW to 3kHz
d) Set VBW to 10kHz
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 within the RBW

3.7.3.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.7.4.Test Result

Refer to Annex A in this report.

3.8. Conducted Emission

3.8.1.Requirement

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

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

Note:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.8.2.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.

3.8.3.Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.8.4.Test Result

Refer to Annex A in this report.

3.9. Restricted Frequency Bands

3.9.1.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).

3.9.2.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 ≥ 1GHz, 100 kHz for f < 1GHz
VBW = 3 MHz
Sweep = auto
Detector function = peak/average
Trace = max hold
Allow the trace to stabilize

3.9.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4.Test Result

Refer to Annex A in this report.

3.10. Radiated Emission

3.10.1.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 (μV/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).

3.10.2.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.

3.10.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.10.4.Test Result

Refer to Annex A in this report.

Annex A Test Data and Result

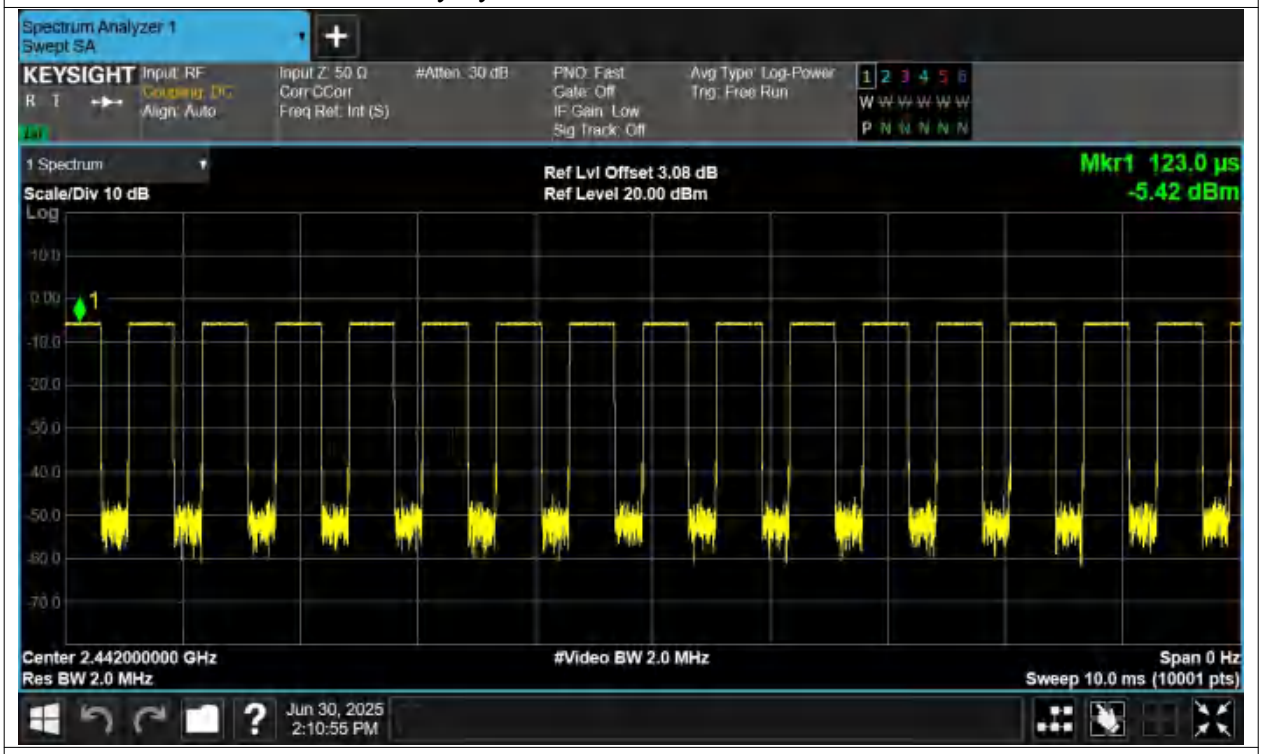
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	BLE 1M	2402	Ant1	63.72	1.96
NVNT	BLE 1M	2440	Ant1	63.57	1.97
NVNT	BLE 1M	2480	Ant1	63.53	1.97
NVNT	BLE 2M	2402	Ant1	36.01	4.44
NVNT	BLE 2M	2440	Ant1	36.79	4.34
NVNT	BLE 2M	2480	Ant1	36.01	4.44
NVNT	BLE S=2	2402	Ant1	58.21	2.35
NVNT	BLE S=2	2440	Ant1	58.6	2.32
NVNT	BLE S=2	2480	Ant1	55.38	2.57
NVNT	BLE S=8	2402	Ant1	80.83	0.92
NVNT	BLE S=8	2440	Ant1	80.77	0.93
NVNT	BLE S=8	2480	Ant1	80.79	0.93

Test Graphs

Duty Cycle NVNT BLE 2402MHz Ant1

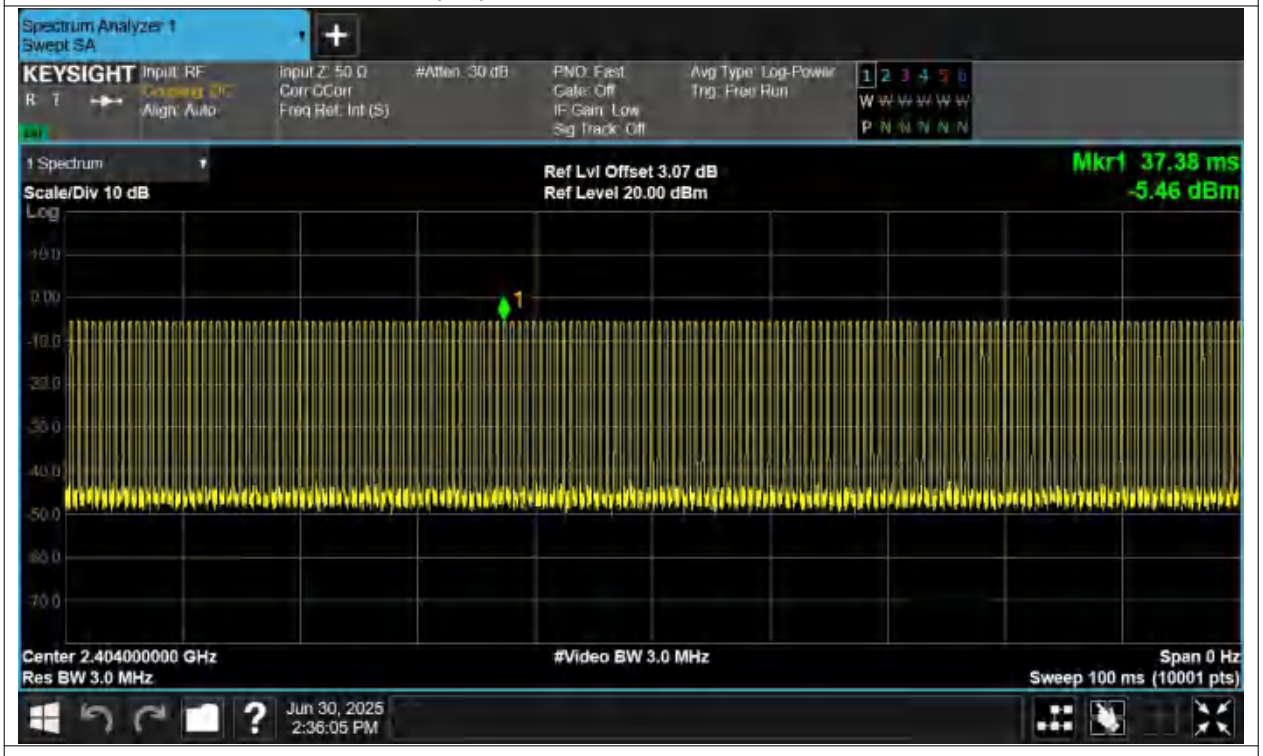
Duty Cycle NVNT BLE 2442MHz Ant1



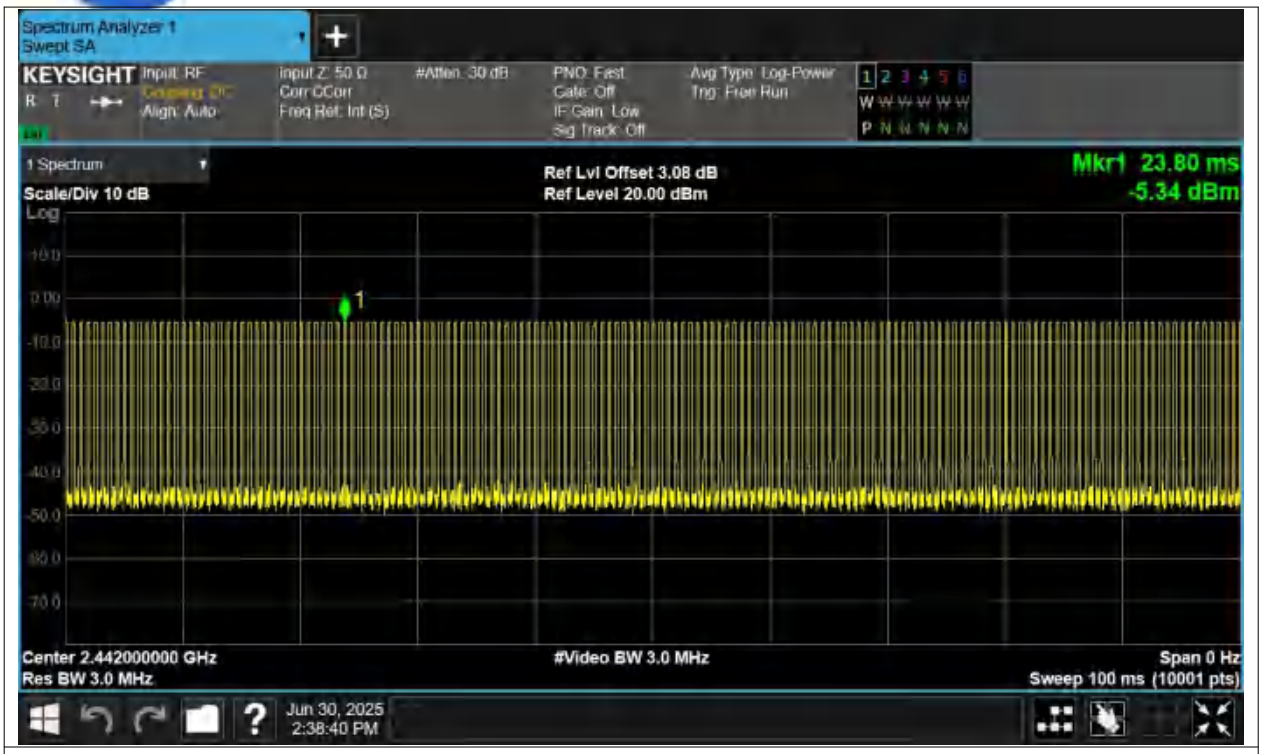
Duty Cycle NVNT BLE 2480MHz Ant1

Test Graphs

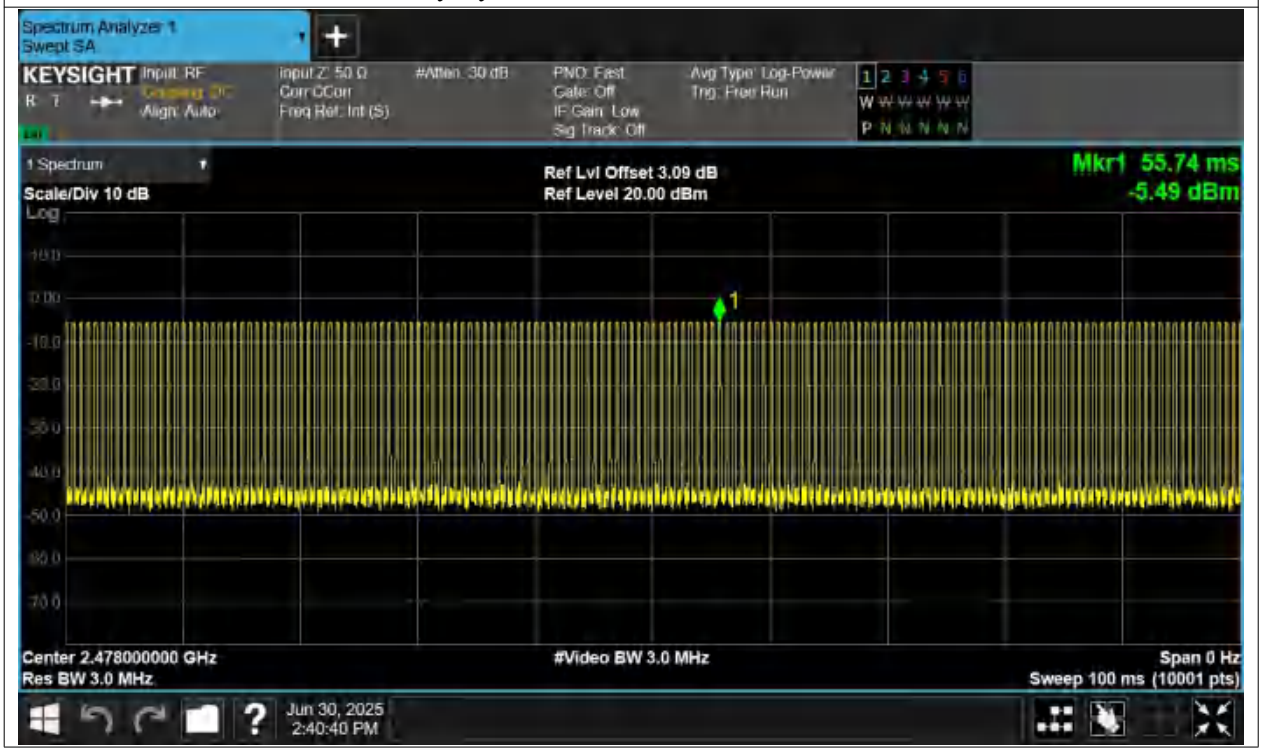
Duty Cycle NVNT BLE 2404MHz Ant1



Duty Cycle NVNT BLE 2442MHz Ant1



Duty Cycle NVNT BLE 2478MHz Ant1



Test Graphs

Duty Cycle NVNT BLE 2402MHz Ant1

Duty Cycle NVNT BLE 2442MHz Ant1

Duty Cycle NVNT BLE 2480MHz Ant1

Test Graphs
Duty Cycle NVNT BLE 2402MHz Ant1

Duty Cycle NVNT BLE 2442MHz Ant1

Duty Cycle NVNT BLE 2480MHz 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	BLE 1M	2402	Ant1	-5.158	0	-5.158	0.0003	30	Pass
NVNT	BLE 1M	2440	Ant1	-5.551	0	-5.551	0.0003	30	Pass
NVNT	BLE 1M	2480	Ant1	-5.305	0	-5.305	0.0003	30	Pass
NVNT	BLE 2M	2402	Ant1	-5.54	0	-5.54	0.0003	30	Pass
NVNT	BLE 2M	2440	Ant1	-5.463	0	-5.463	0.0003	30	Pass
NVNT	BLE 2M	2480	Ant1	-5.642	0	-5.642	0.0003	30	Pass
NVNT	BLE S=2	2402	Ant1	-5.287	0	-5.287	0.0003	30	Pass
NVNT	BLE S=2	2440	Ant1	-5.644	0	-5.644	0.0003	30	Pass
NVNT	BLE S=2	2480	Ant1	-5.301	0	-5.301	0.0003	30	Pass
NVNT	BLE S=8	2402	Ant1	-5.225	0	-5.225	0.0003	30	Pass
NVNT	BLE S=8	2440	Ant1	-5.618	0	-5.618	0.0003	30	Pass
NVNT	BLE S=8	2480	Ant1	-5.377	0	-5.377	0.0003	30	Pass

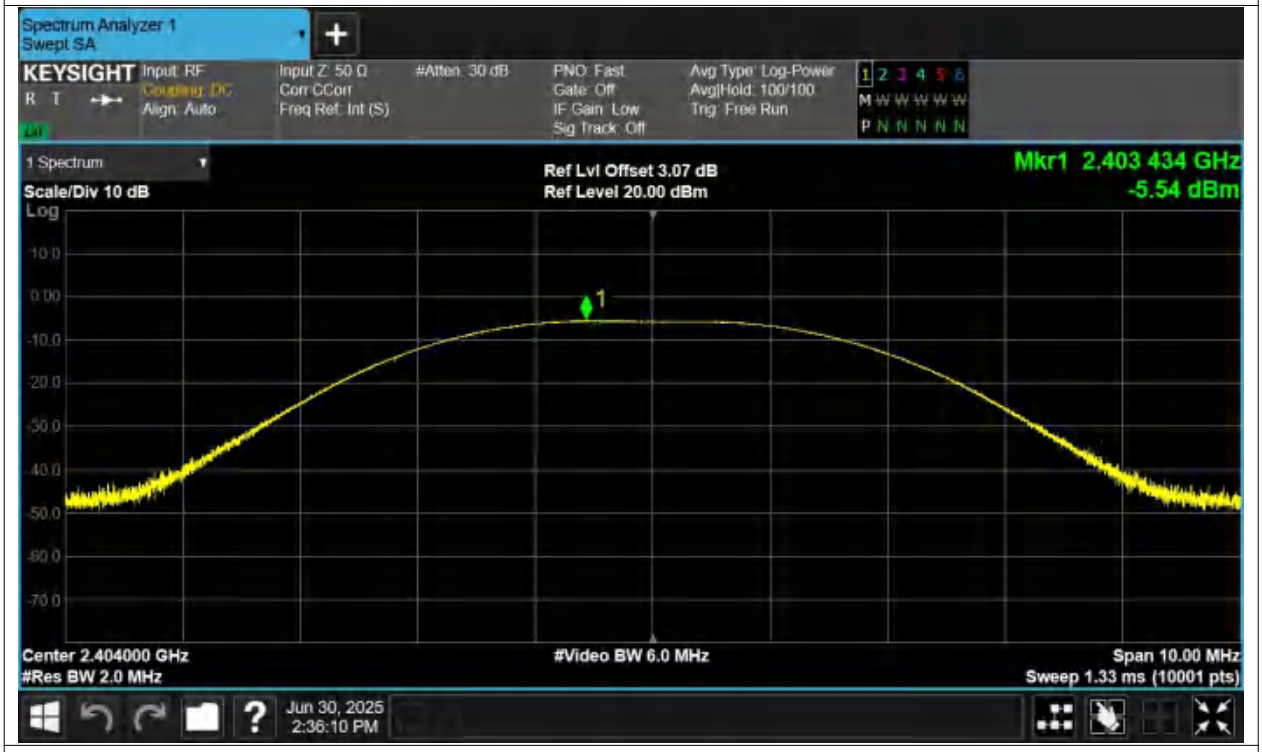
Test Graphs

Power NVNT BLE 2402MHz Ant1

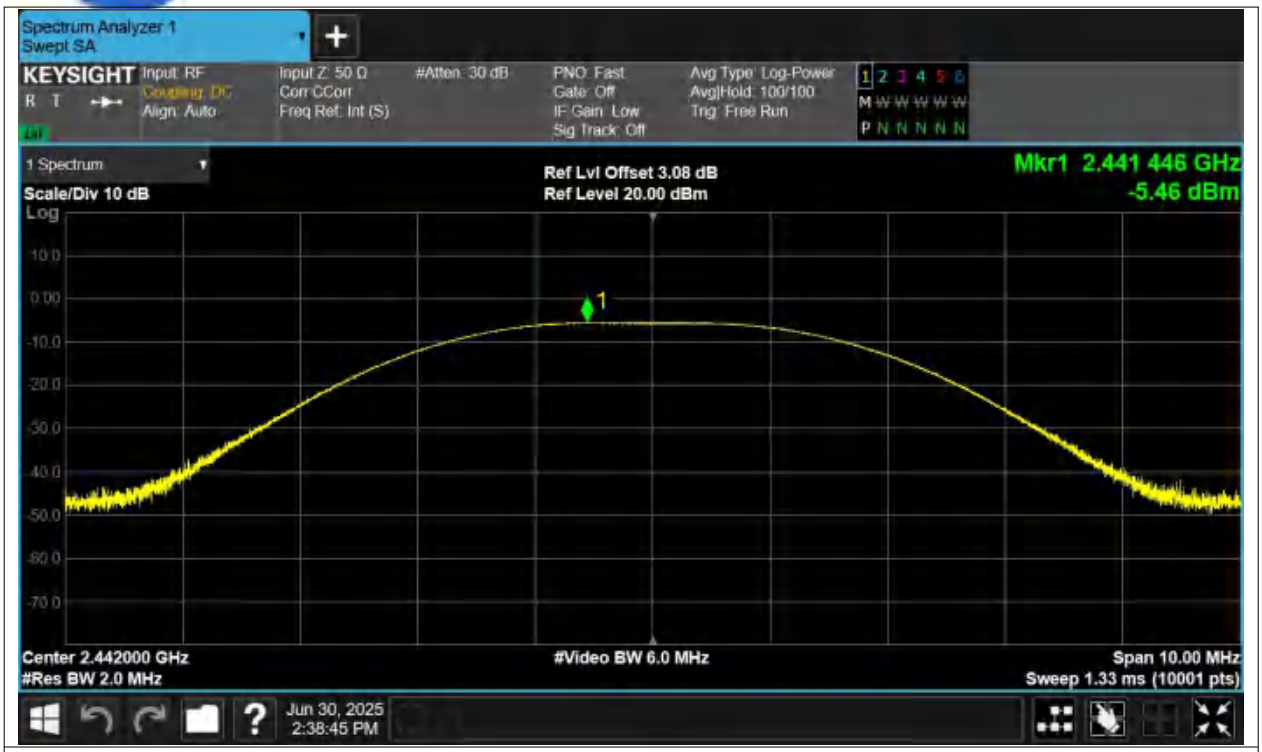
Power NVNT BLE 2442MHz Ant1

Power NVNT BLE 2480MHz Ant1

Test Graphs
Power NVNT BLE 2404MHz Ant1



Power NVNT BLE 2442MHz Ant1



Power NVNT BLE 2478MHz Ant1

Test Graphs

Power NVNT BLE 2402MHz Ant1

Power NVNT BLE 2442MHz Ant1

Power NVNT BLE 2480MHz Ant1

Test Graphs
Power NVNT BLE 2402MHz Ant1

Power NVNT BLE 2442MHz Ant1

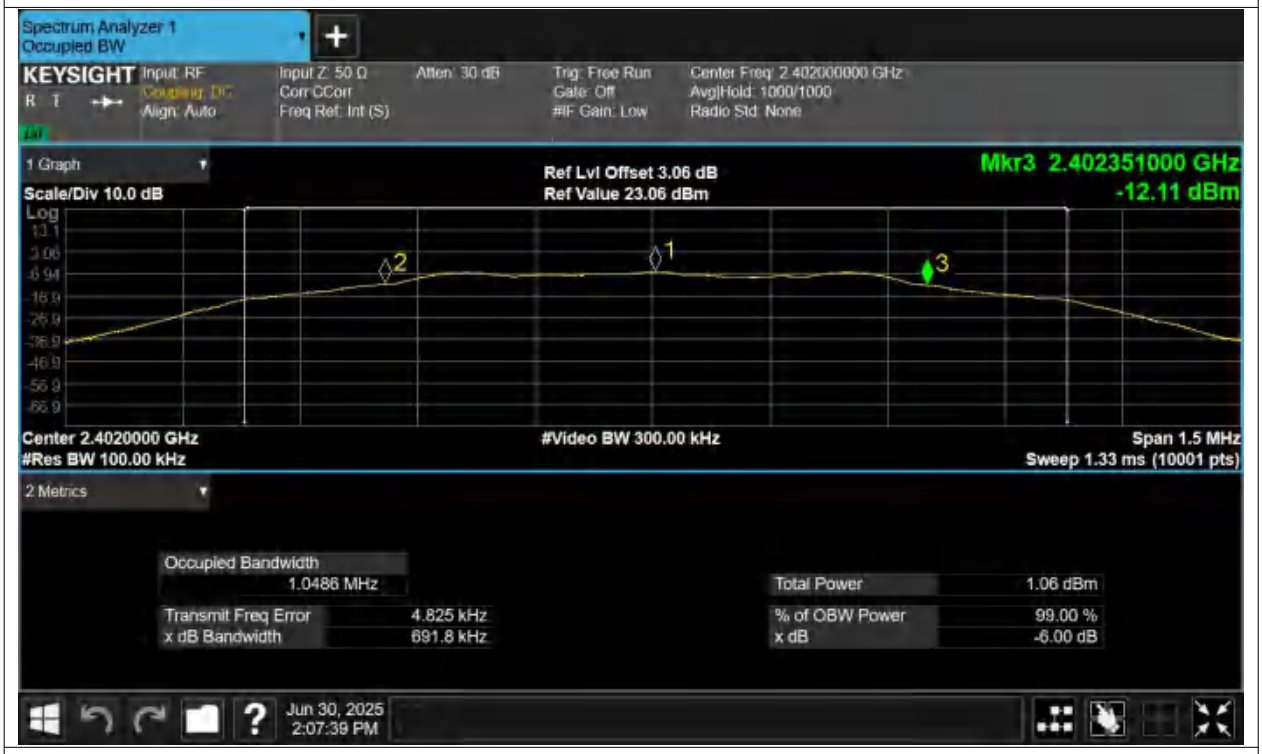
Power NVNT BLE 2480MHz Ant1

A.3. 6 dB Bandwidth

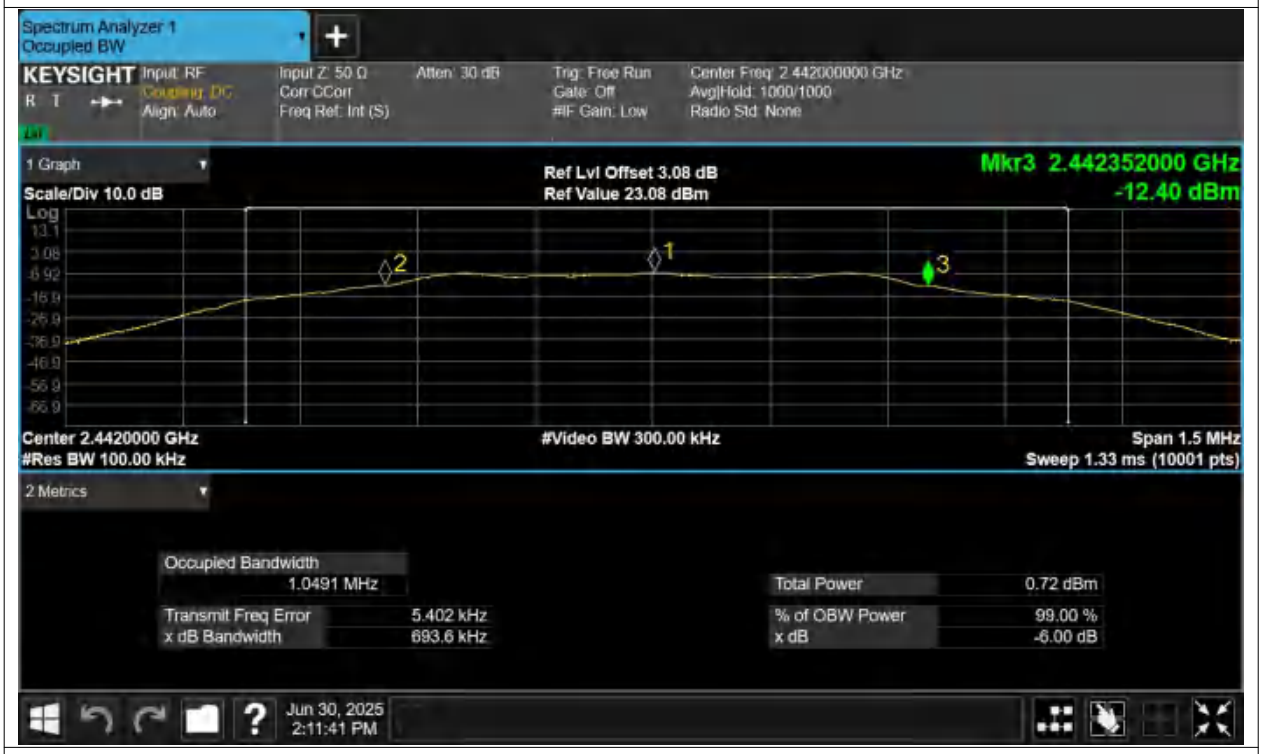
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.692	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.694	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.689	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.16	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.14	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.155	0.5	Pass
NVNT	BLE S=2	2402	Ant1	0.661	0.5	Pass
NVNT	BLE S=2	2440	Ant1	0.661	0.5	Pass
NVNT	BLE S=2	2480	Ant1	0.665	0.5	Pass
NVNT	BLE S=8	2402	Ant1	0.688	0.5	Pass
NVNT	BLE S=8	2440	Ant1	0.686	0.5	Pass
NVNT	BLE S=8	2480	Ant1	0.687	0.5	Pass

Test Graphs

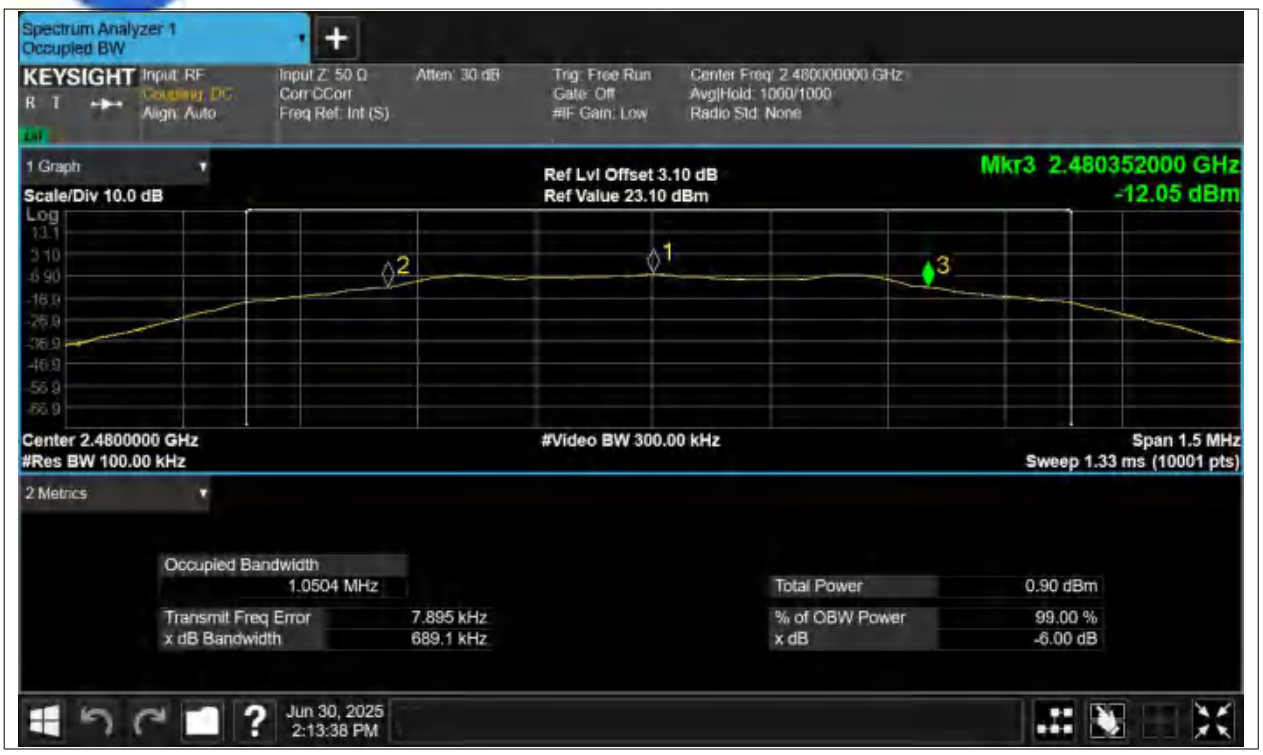
-6dB Bandwidth NVNT BLE 2402MHz Ant1



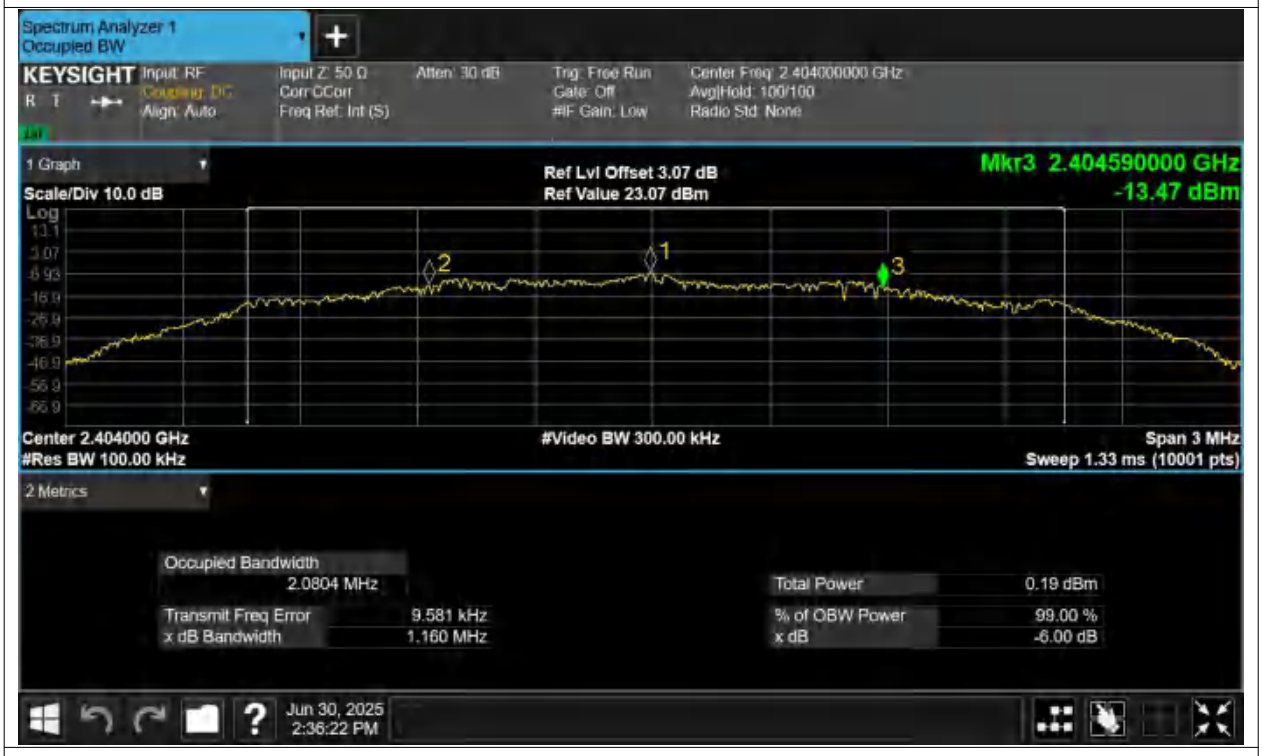
-6dB Bandwidth NVNT BLE 2442MHz Ant1



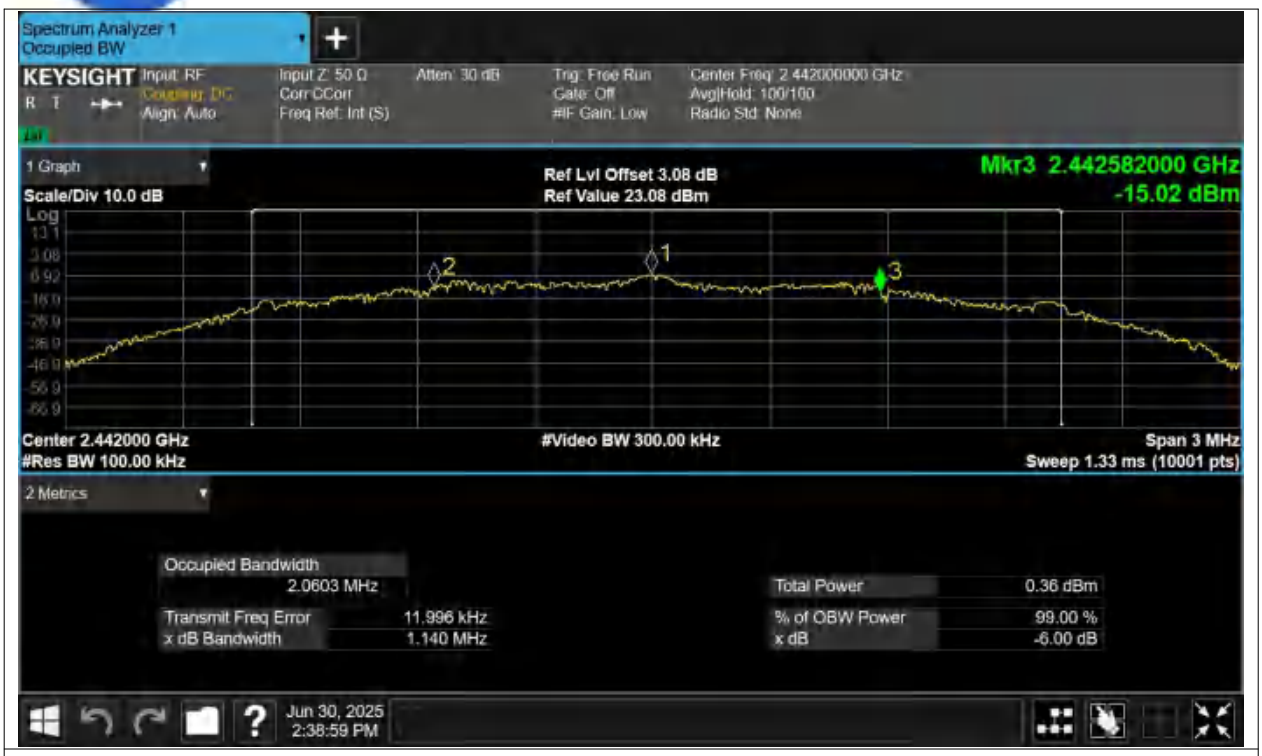
-6dB Bandwidth NVNT BLE 2480MHz Ant1



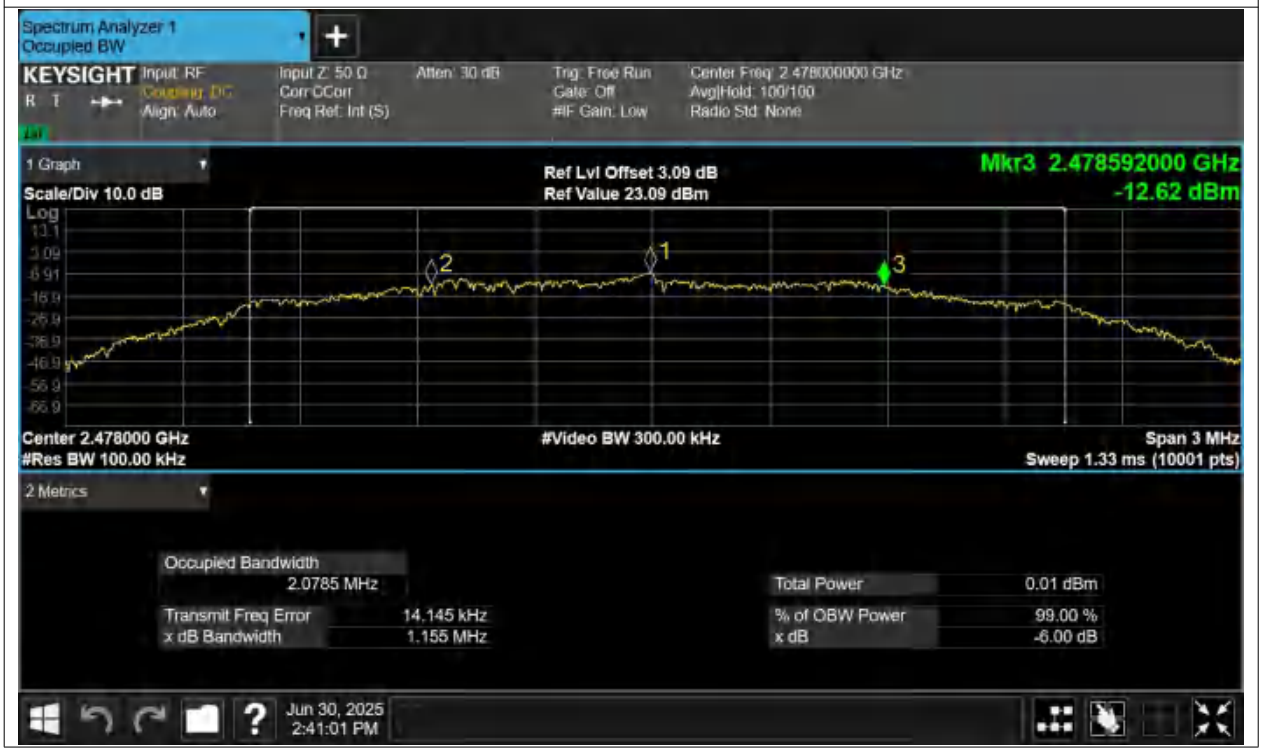
Test Graphs
-6dB Bandwidth NVNT BLE 2404MHz Ant1



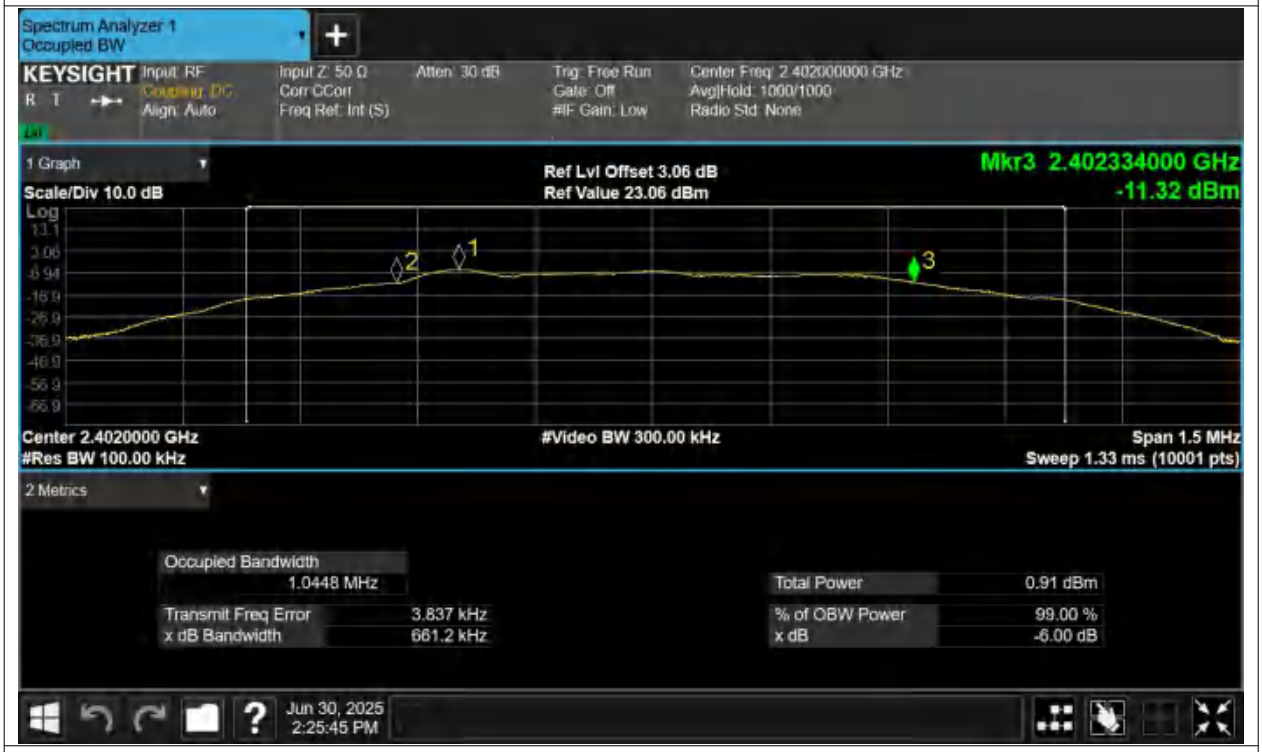
-6dB Bandwidth NVNT BLE 2442MHz Ant1



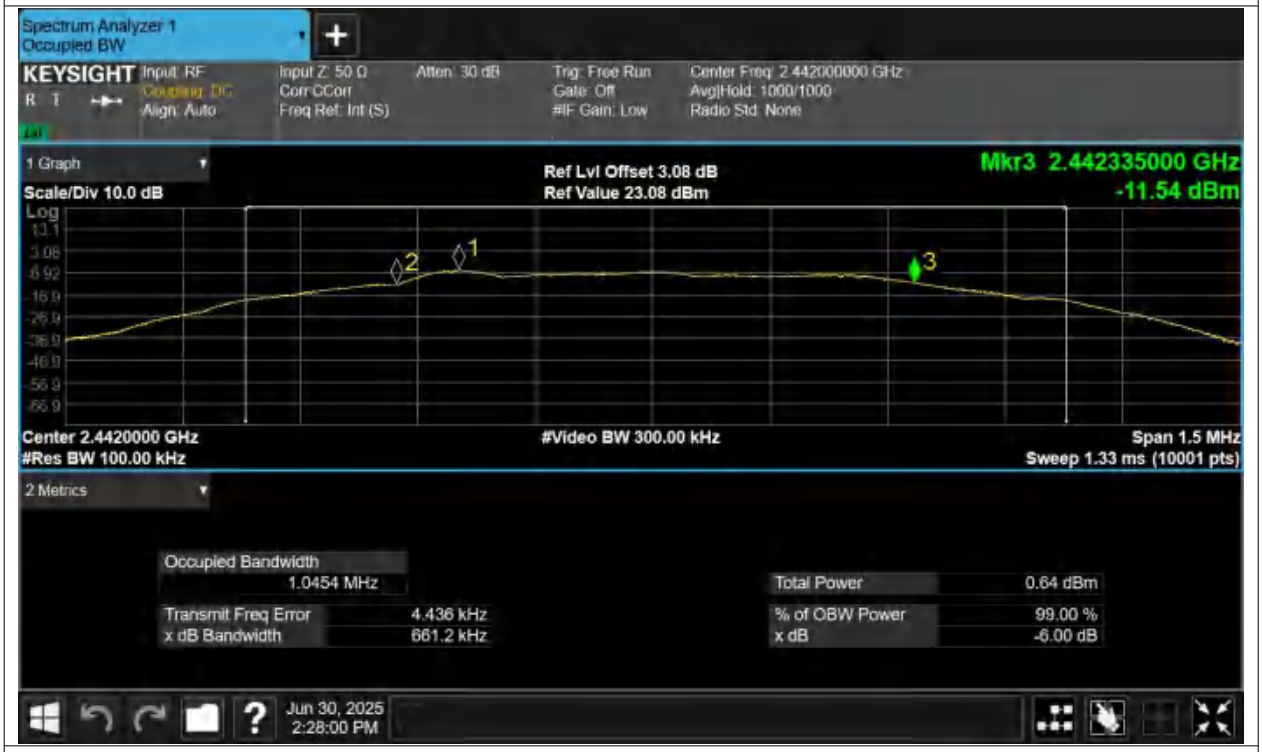
-6dB Bandwidth NVNT BLE 2478MHz Ant1



Test Graphs
-6dB Bandwidth NVNT BLE 2402MHz Ant1



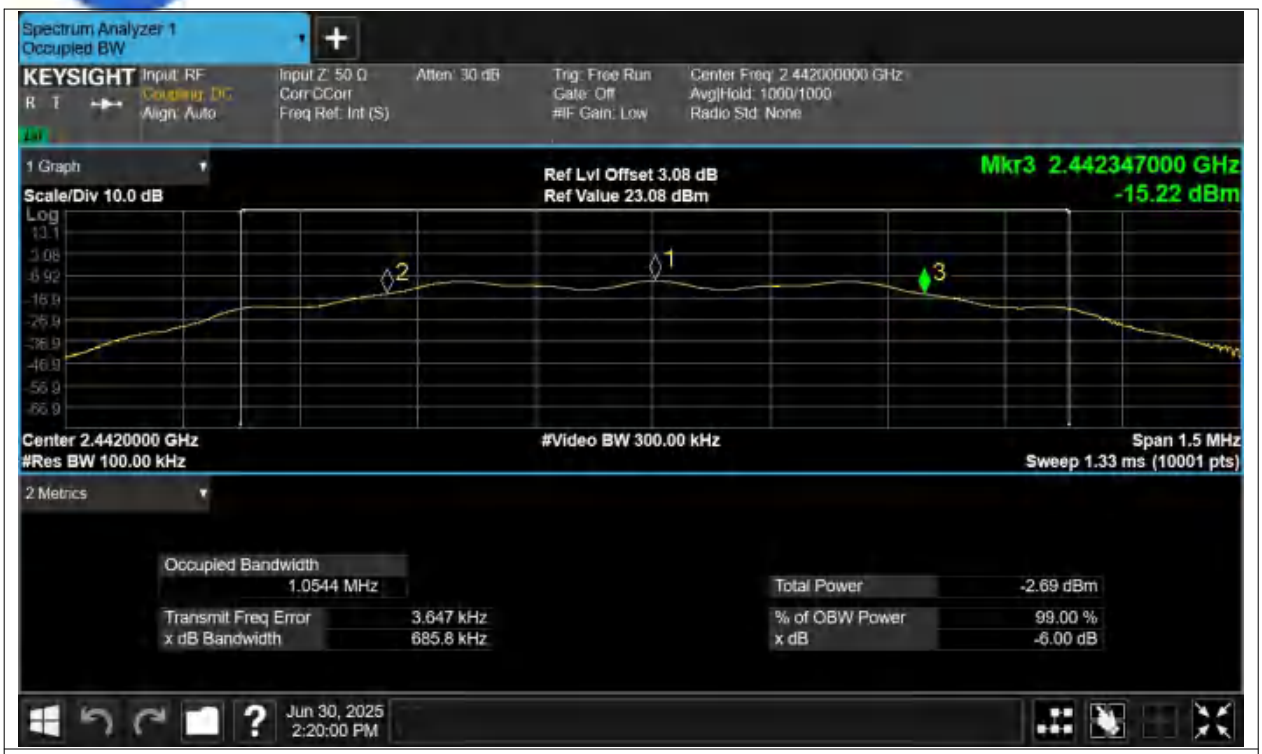
-6dB Bandwidth NVNT BLE 2442MHz Ant1



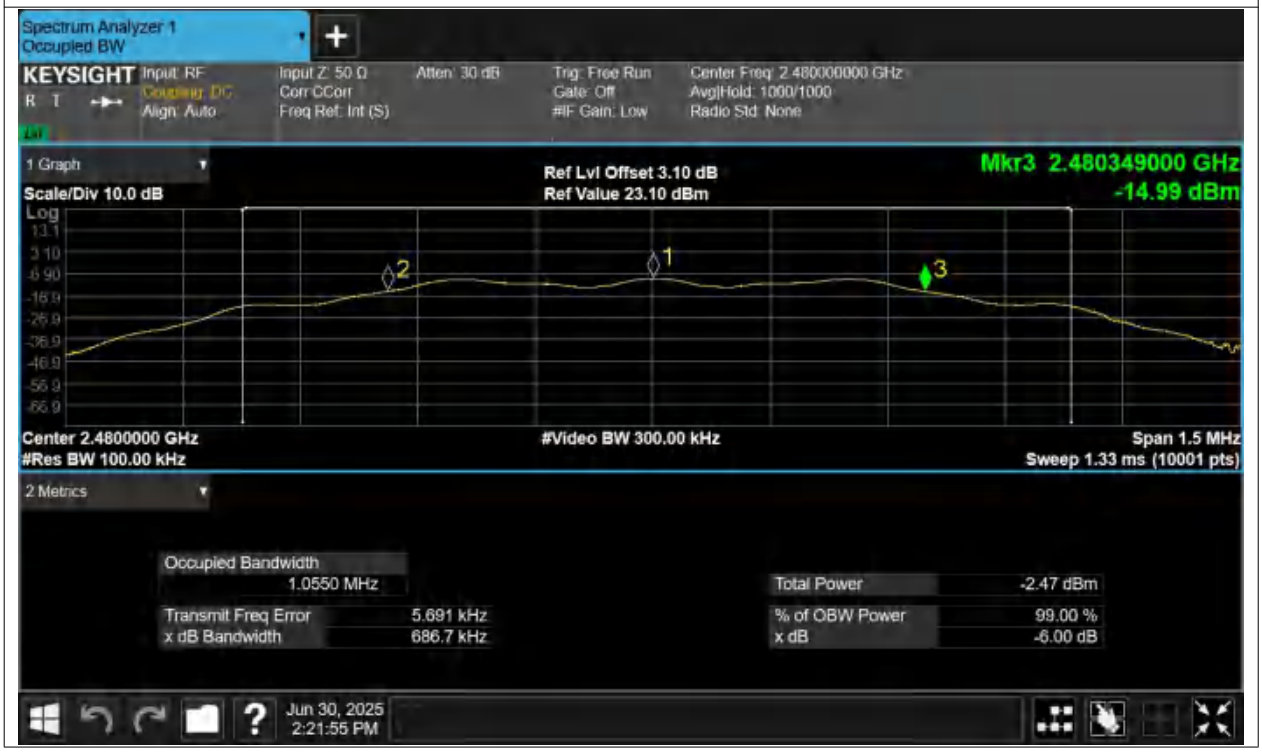
-6dB Bandwidth NVNT BLE 2480MHz Ant1

Test Graphs
-6dB Bandwidth NVNT BLE 2402MHz Ant1

-6dB Bandwidth NVNT BLE 2442MHz Ant1



-6dB Bandwidth NVNT BLE 2480MHz Ant1

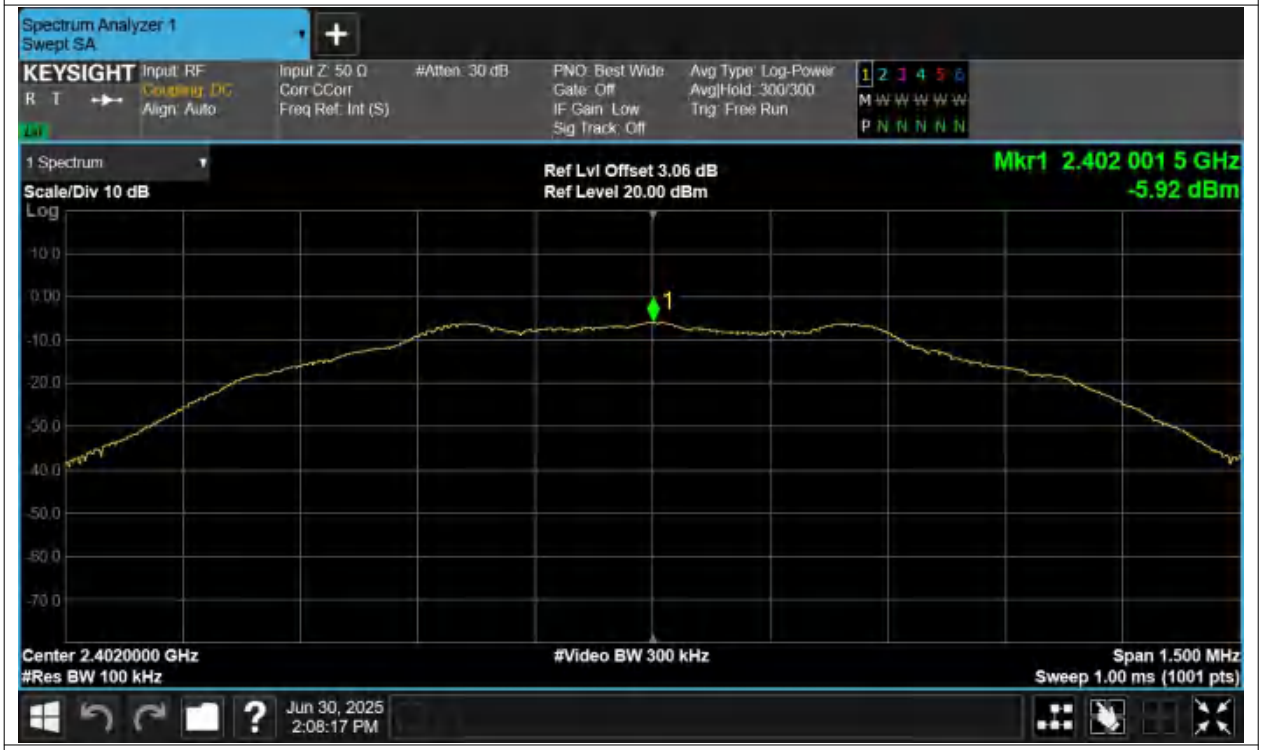


A.4. Conducted Spurious Emissions

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-42.3	-20	Pass
NVNT	BLE 1M	2440	Ant1	-41.7	-20	Pass
NVNT	BLE 1M	2480	Ant1	-42.26	-20	Pass
NVNT	BLE 2M	2402	Ant1	-40.73	-20	Pass
NVNT	BLE 2M	2440	Ant1	-40.33	-20	Pass
NVNT	BLE 2M	2480	Ant1	-39.75	-20	Pass
NVNT	BLE S=2	2402	Ant1	-43	-20	Pass
NVNT	BLE S=2	2440	Ant1	-42.15	-20	Pass
NVNT	BLE S=2	2480	Ant1	-42.75	-20	Pass
NVNT	BLE S=8	2402	Ant1	-39.27	-20	Pass
NVNT	BLE S=8	2440	Ant1	-38.6	-20	Pass
NVNT	BLE S=8	2480	Ant1	-39.26	-20	Pass

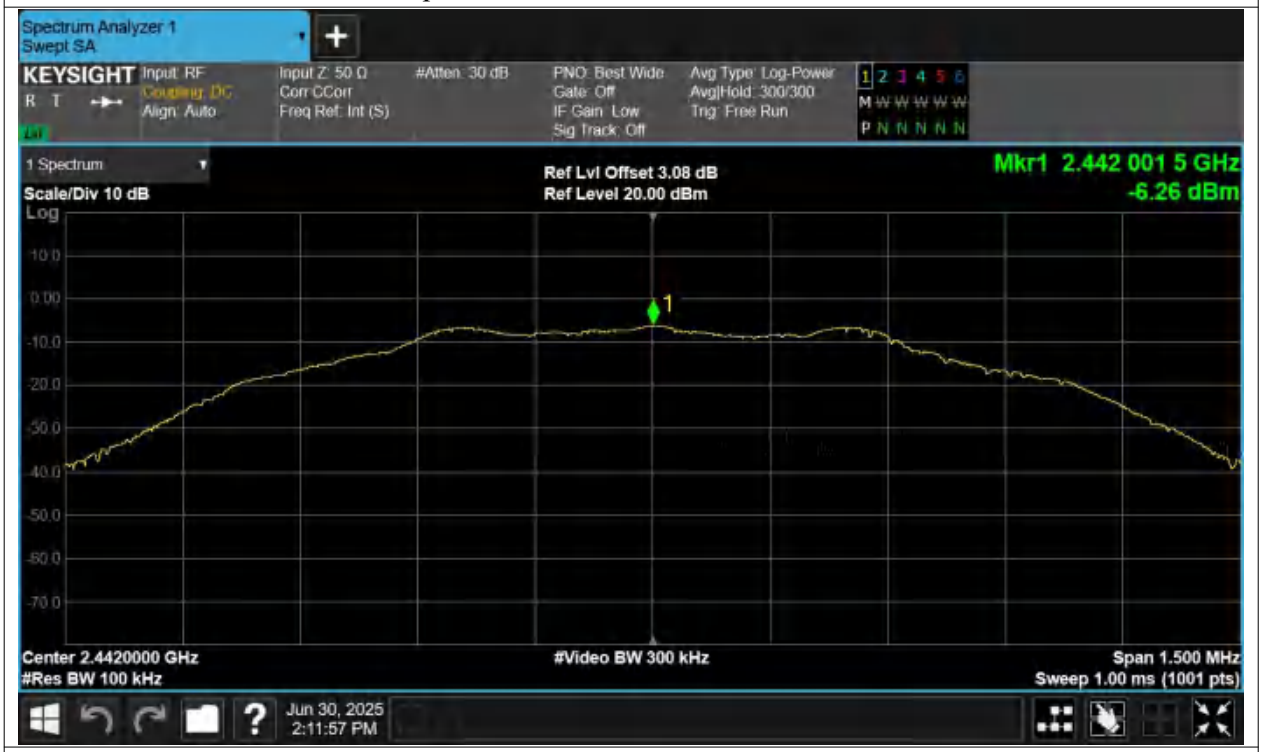
Test Graphs

Tx. Spurious NVNT BLE 2402MHz Ant1 Ref



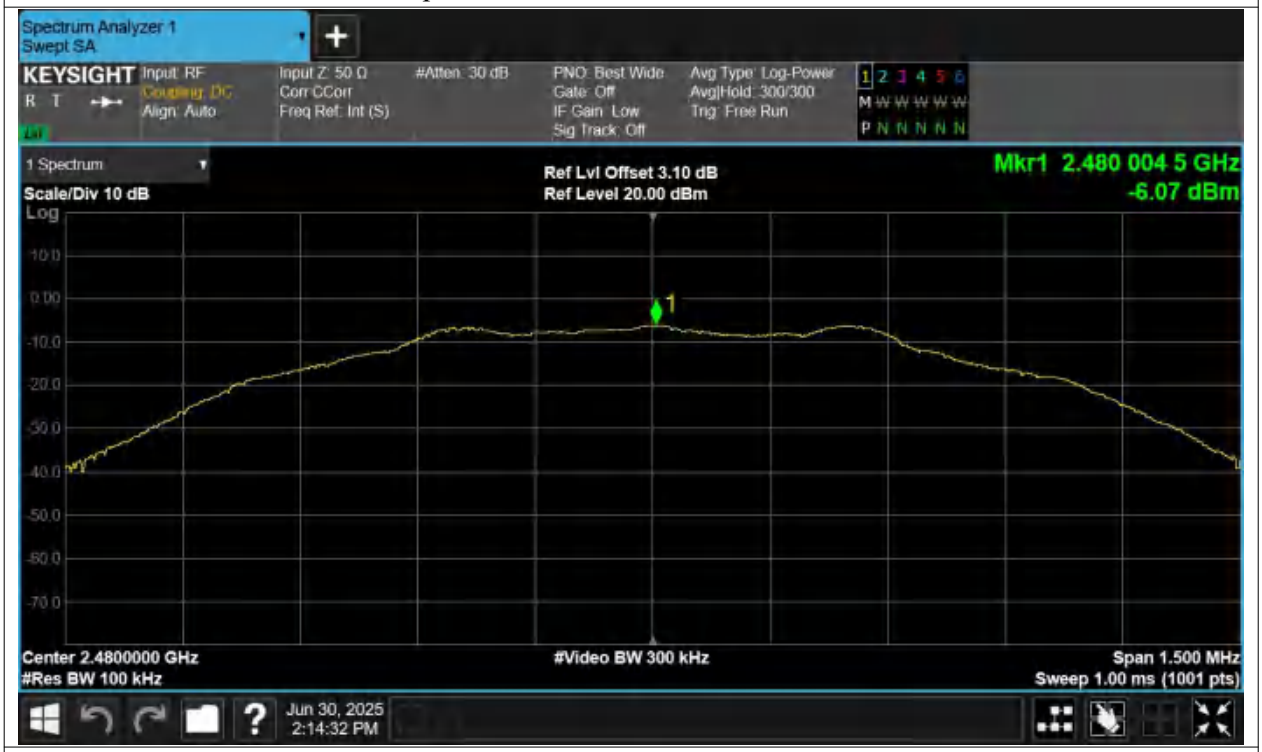
Tx. Spurious NVNT BLE 2402MHz Ant1 Emission

Tx. Spurious NVNT BLE 2442MHz Ant1 Ref



Tx. Spurious NVNT BLE 2442MHz Ant1 Emission

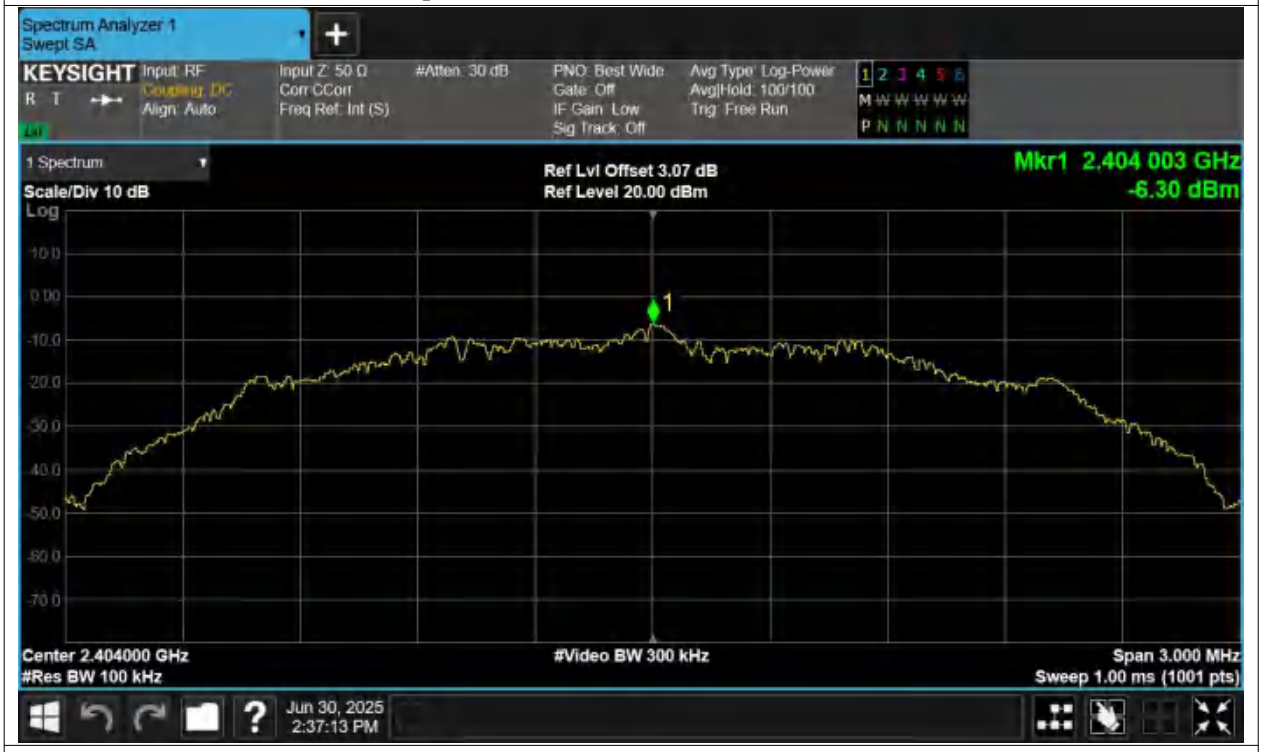
Tx. Spurious NVNT BLE 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2480MHz Ant1 Emission

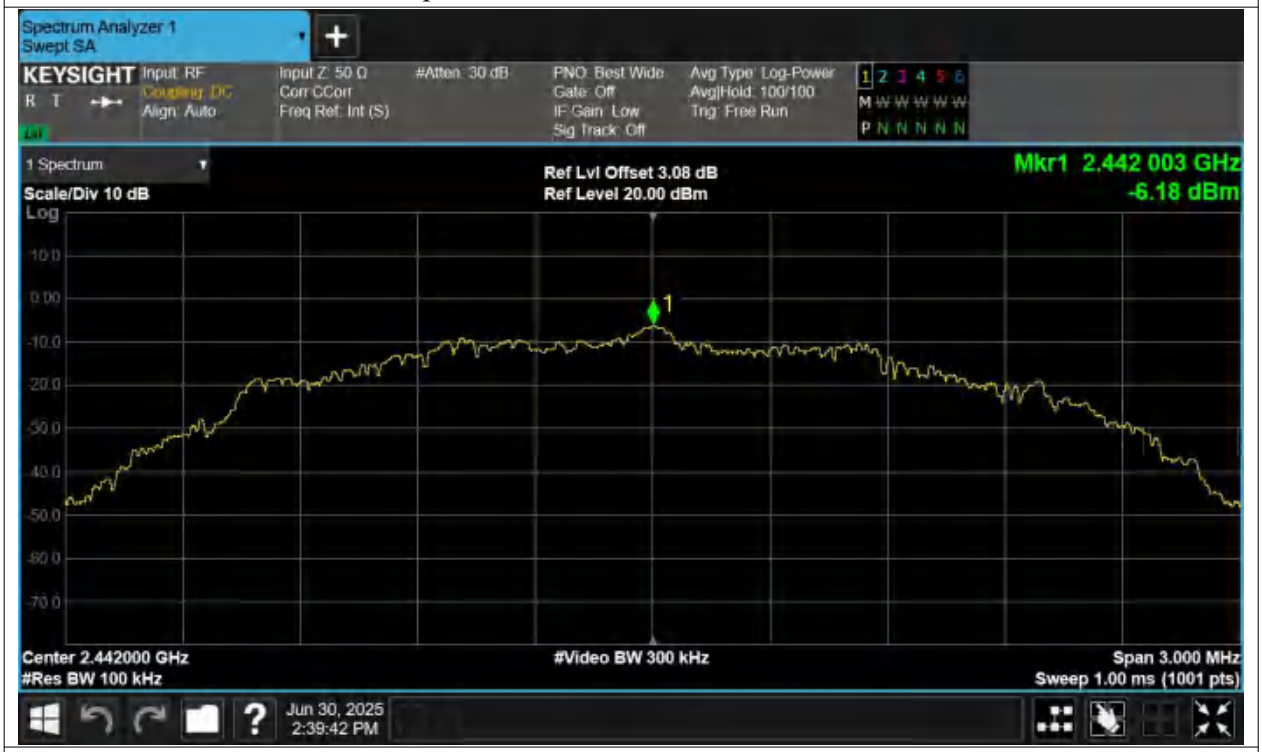
Test Graphs

Tx. Spurious NVNT BLE 2404MHz Ant1 Ref



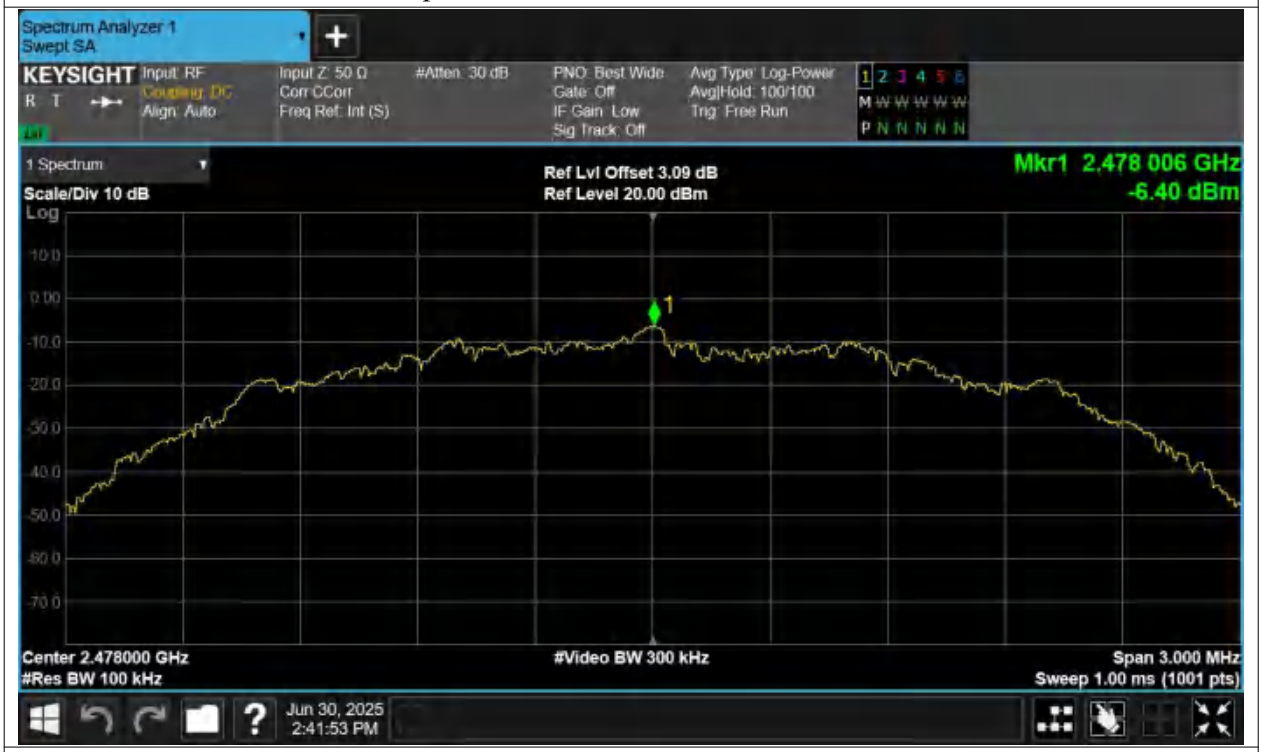
Tx. Spurious NVNT BLE 2404MHz Ant1 Emission

Tx. Spurious NVNT BLE 2442MHz Ant1 Ref

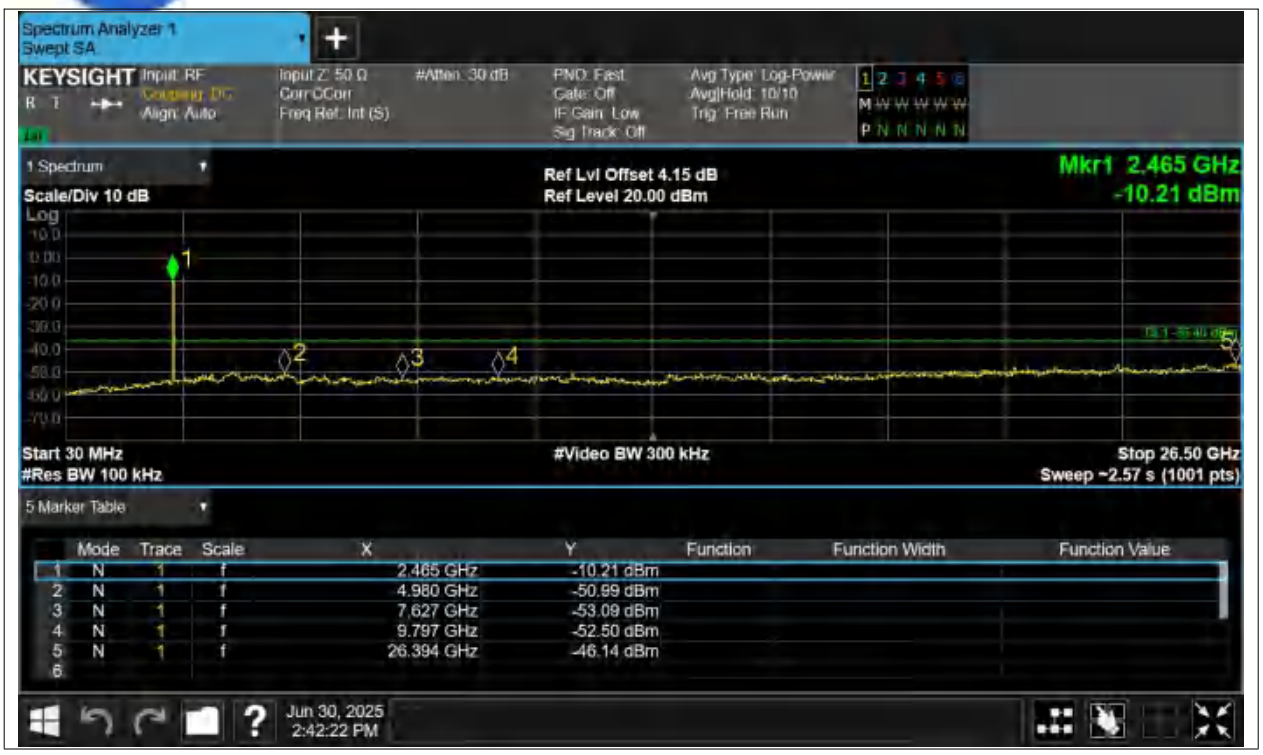


Tx. Spurious NVNT BLE 2442MHz Ant1 Emission

Tx. Spurious NVNT BLE 2478MHz Ant1 Ref

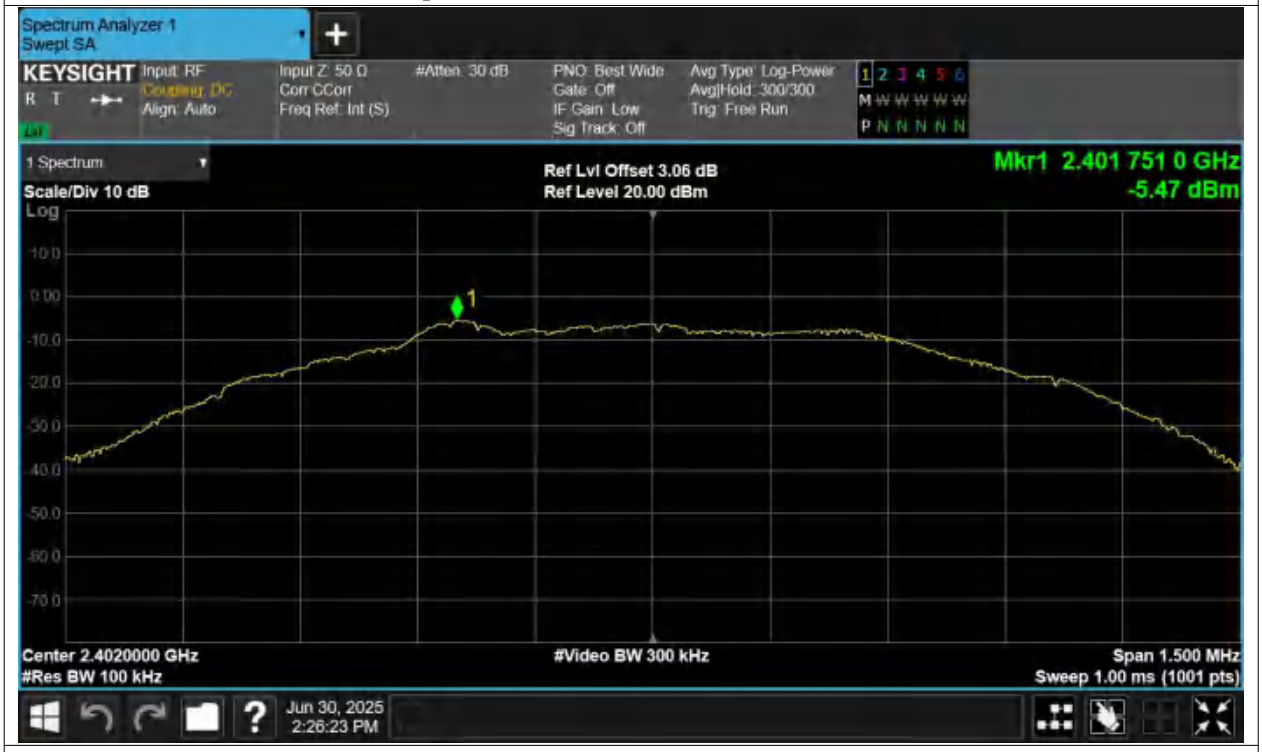


Tx. Spurious NVNT BLE 2478MHz Ant1 Emission



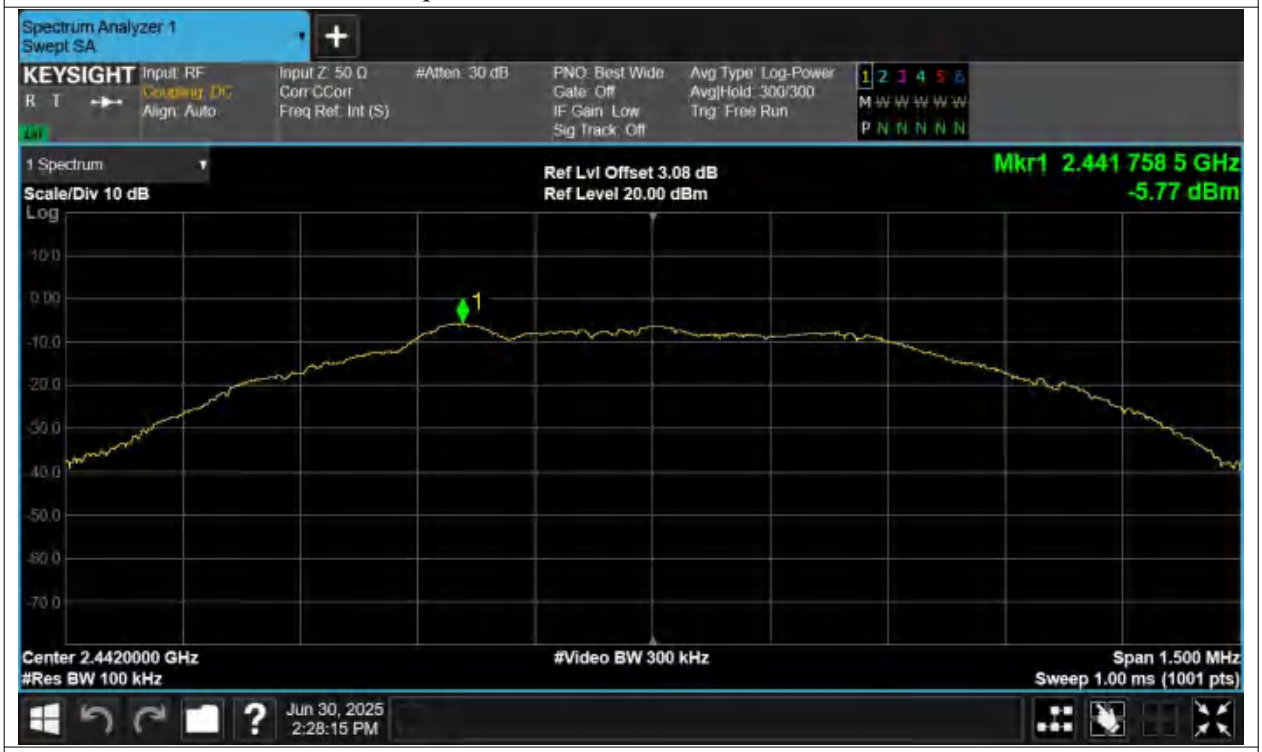
Test Graphs

Tx. Spurious NVNT BLE 2402MHz Ant1 Ref



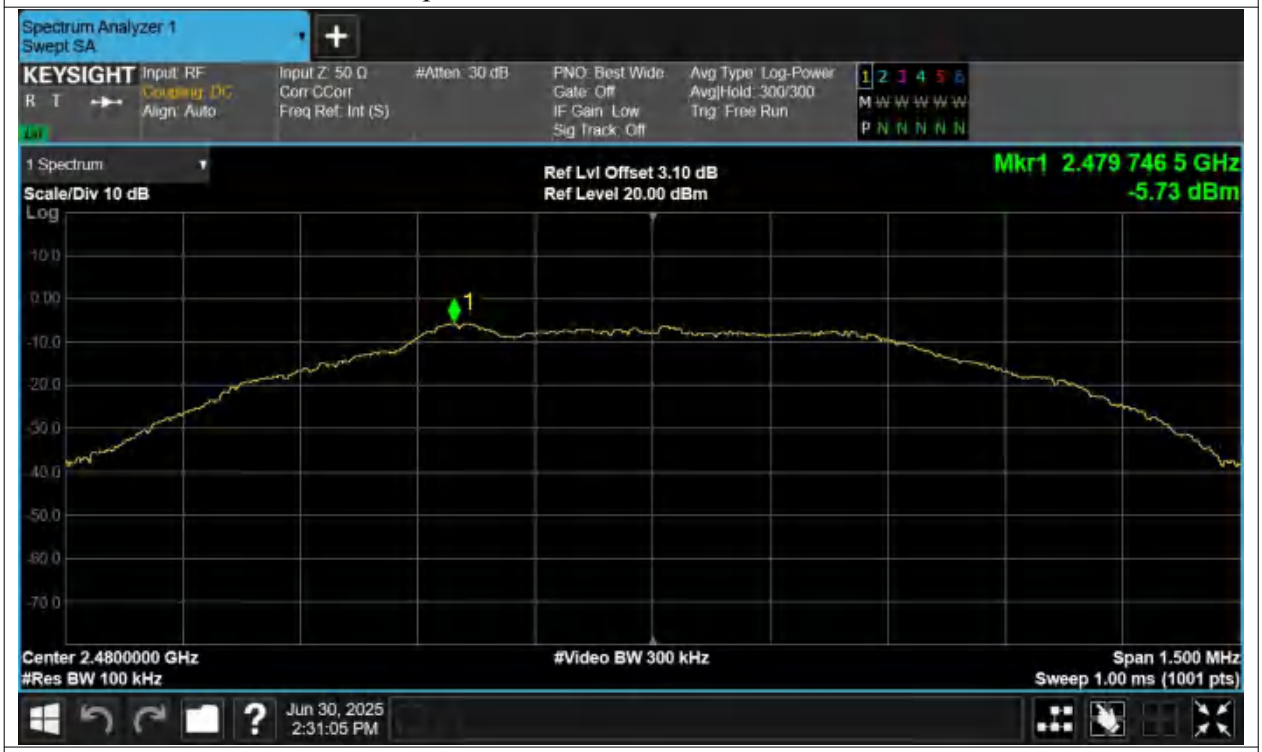
Tx. Spurious NVNT BLE 2402MHz Ant1 Emission

Tx. Spurious NVNT BLE 2442MHz Ant1 Ref



Tx. Spurious NVNT BLE 2442MHz Ant1 Emission

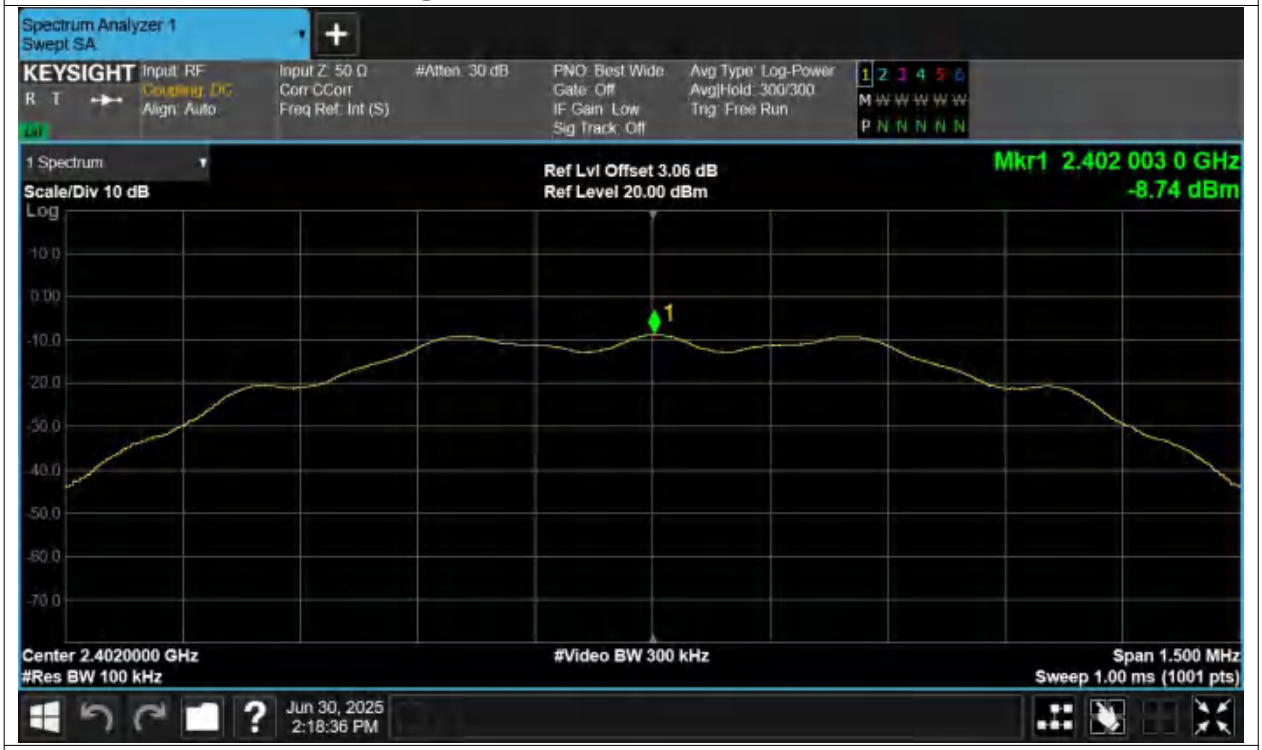
Tx. Spurious NVNT BLE 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2480MHz Ant1 Emission

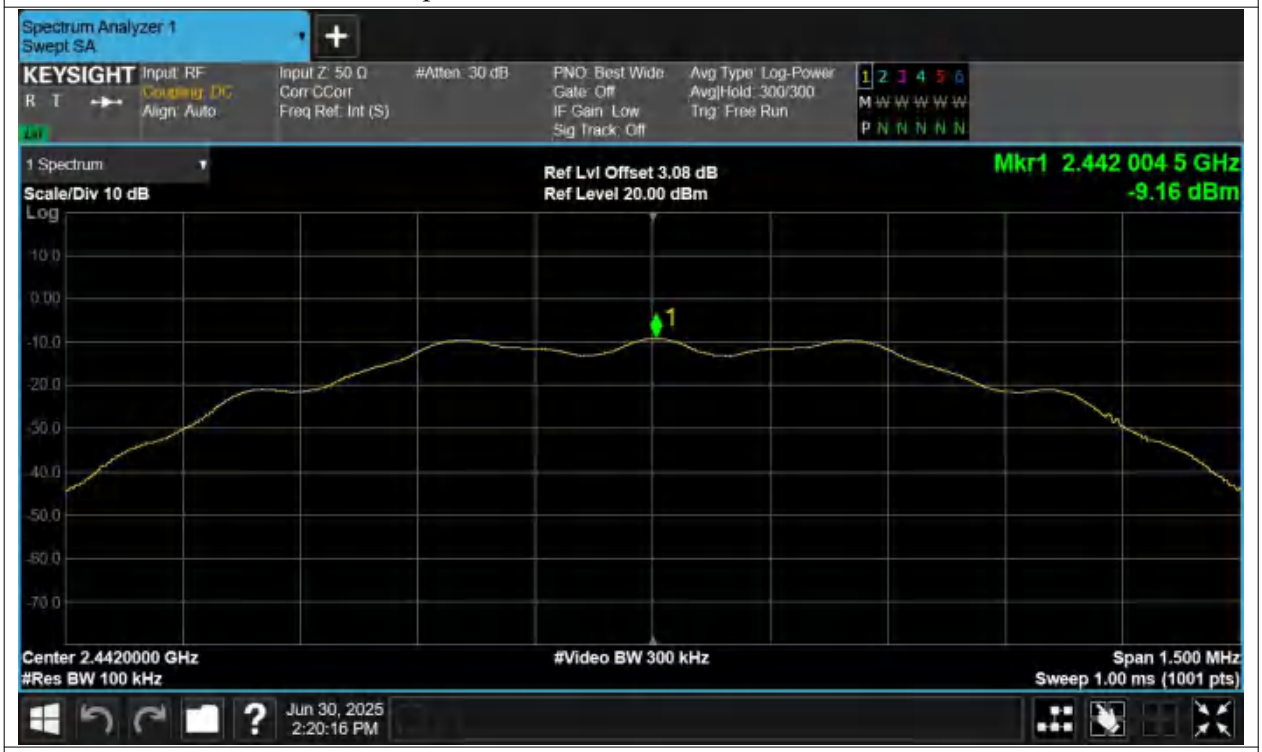
Test Graphs

Tx. Spurious NVNT BLE 2402MHz Ant1 Ref



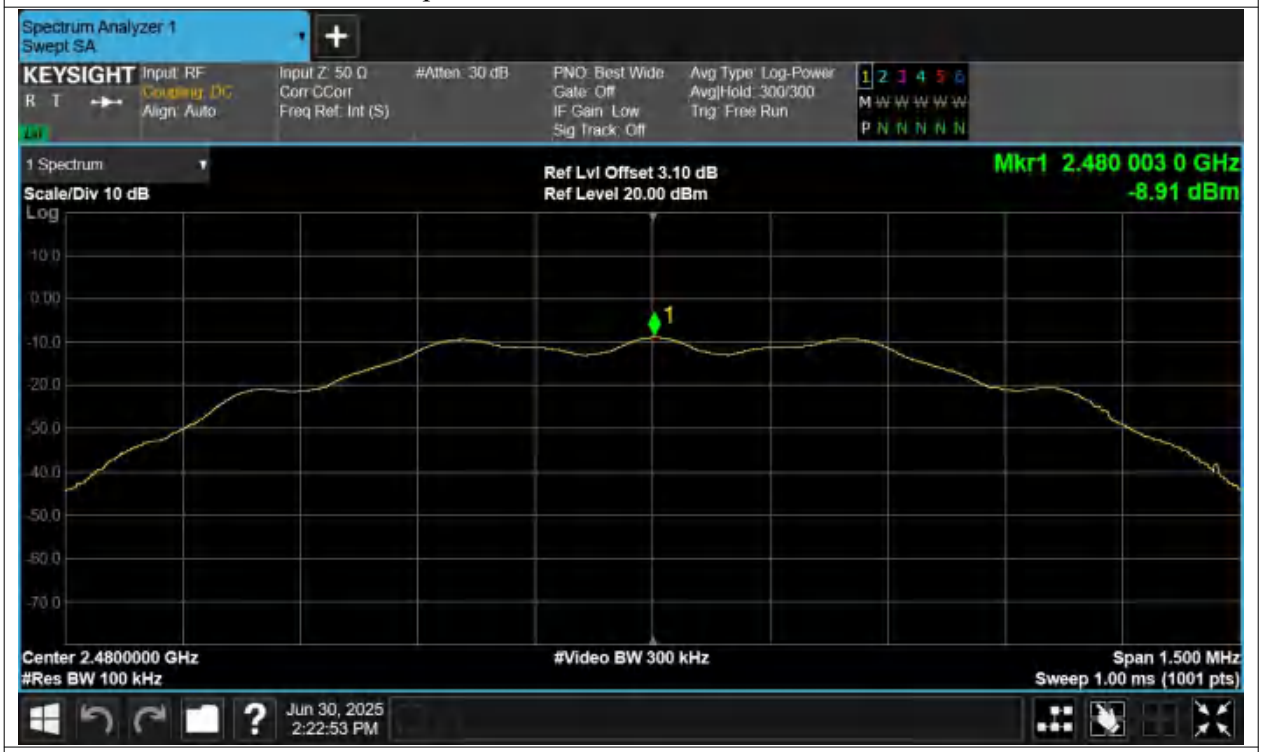
Tx. Spurious NVNT BLE 2402MHz Ant1 Emission

Tx. Spurious NVNT BLE 2442MHz Ant1 Ref



Tx. Spurious NVNT BLE 2442MHz Ant1 Emission

Tx. Spurious NVNT BLE 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2480MHz Ant1 Emission

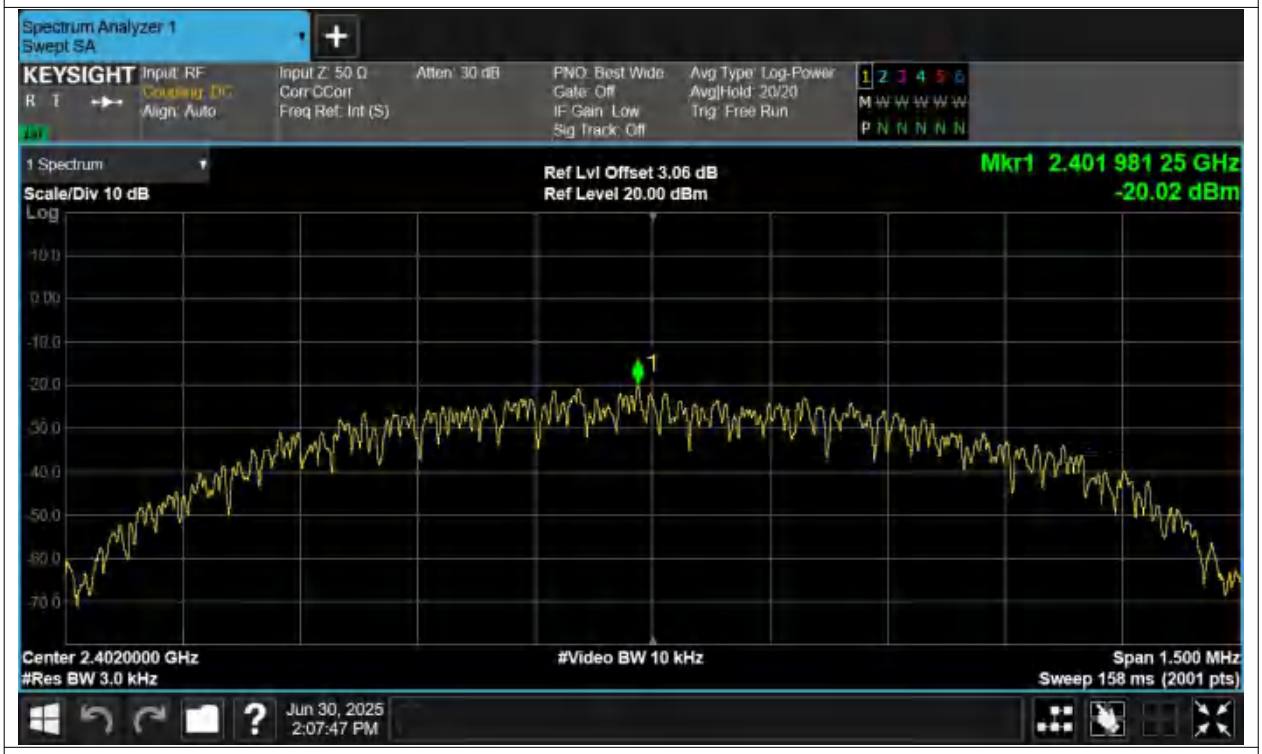

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 5/5
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.15 dB
Ref Level 20.00 dBm
Mkr1 2.477 GHz
-7.91 dBm
Start 30 MHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 25.00 GHz
Sweep ~2.49 s (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.477 GHz -7.914 dBm
2 N 1 f 5.099 GHz -51.36 dBm
3 N 1 f 7.271 GHz -53.14 dBm
4 N 1 f 9.743 GHz -53.08 dBm
5 N 1 f 22.428 GHz -48.17 dBm
6
Jun 30, 2025
2:23:08 PM

A.5. Power Spectral Density

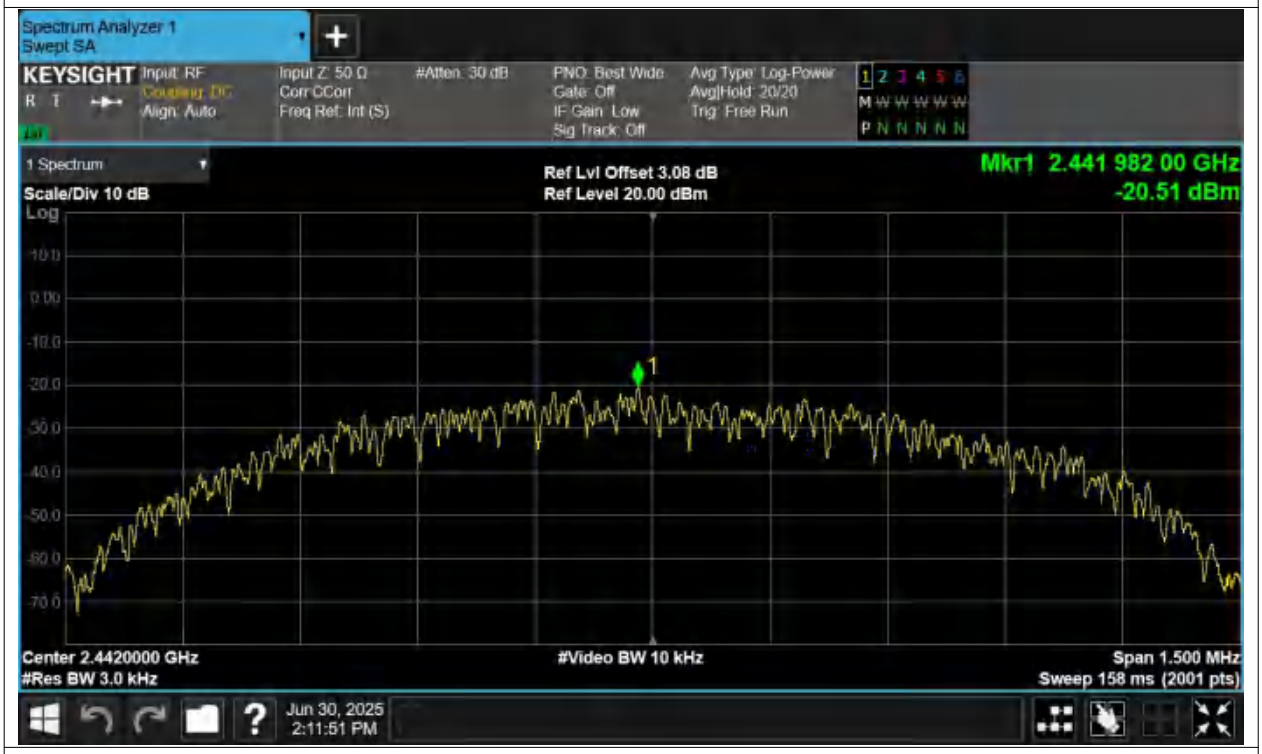
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-20.015	0	-20.015	8	Pass
NVNT	BLE 1M	2440	Ant1	-20.509	0	-20.509	8	Pass
NVNT	BLE 1M	2480	Ant1	-20.189	0	-20.189	8	Pass
NVNT	BLE 2M	2402	Ant1	-23.047	0	-23.047	8	Pass
NVNT	BLE 2M	2440	Ant1	-22.967	0	-22.967	8	Pass
NVNT	BLE 2M	2480	Ant1	-23.143	0	-23.143	8	Pass
NVNT	BLE S=2	2402	Ant1	-11.582	0	-11.582	8	Pass
NVNT	BLE S=2	2440	Ant1	-11.924	0	-11.924	8	Pass
NVNT	BLE S=2	2480	Ant1	-11.68	0	-11.68	8	Pass
NVNT	BLE S=8	2402	Ant1	-11.426	0	-11.426	8	Pass
NVNT	BLE S=8	2440	Ant1	-11.864	0	-11.864	8	Pass
NVNT	BLE S=8	2480	Ant1	-11.611	0	-11.611	8	Pass

Test Graphs

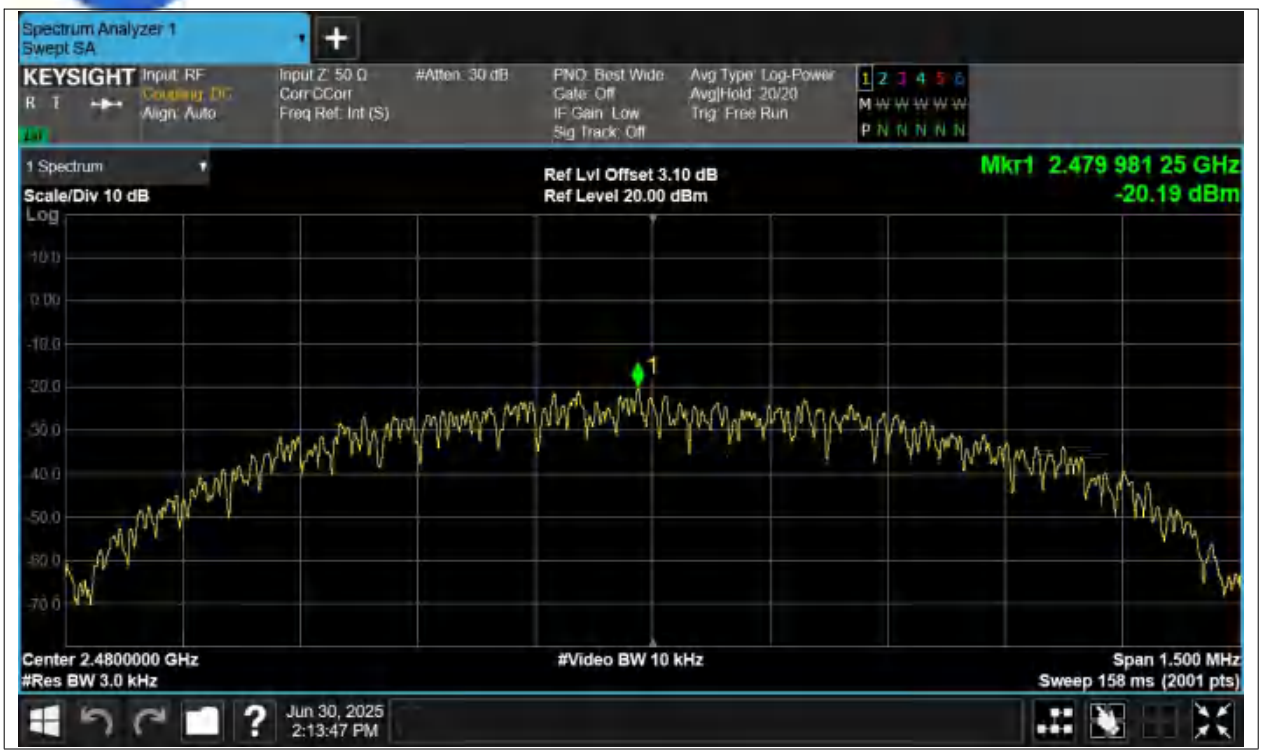
PSD NVNT BLE 2402MHz Ant1



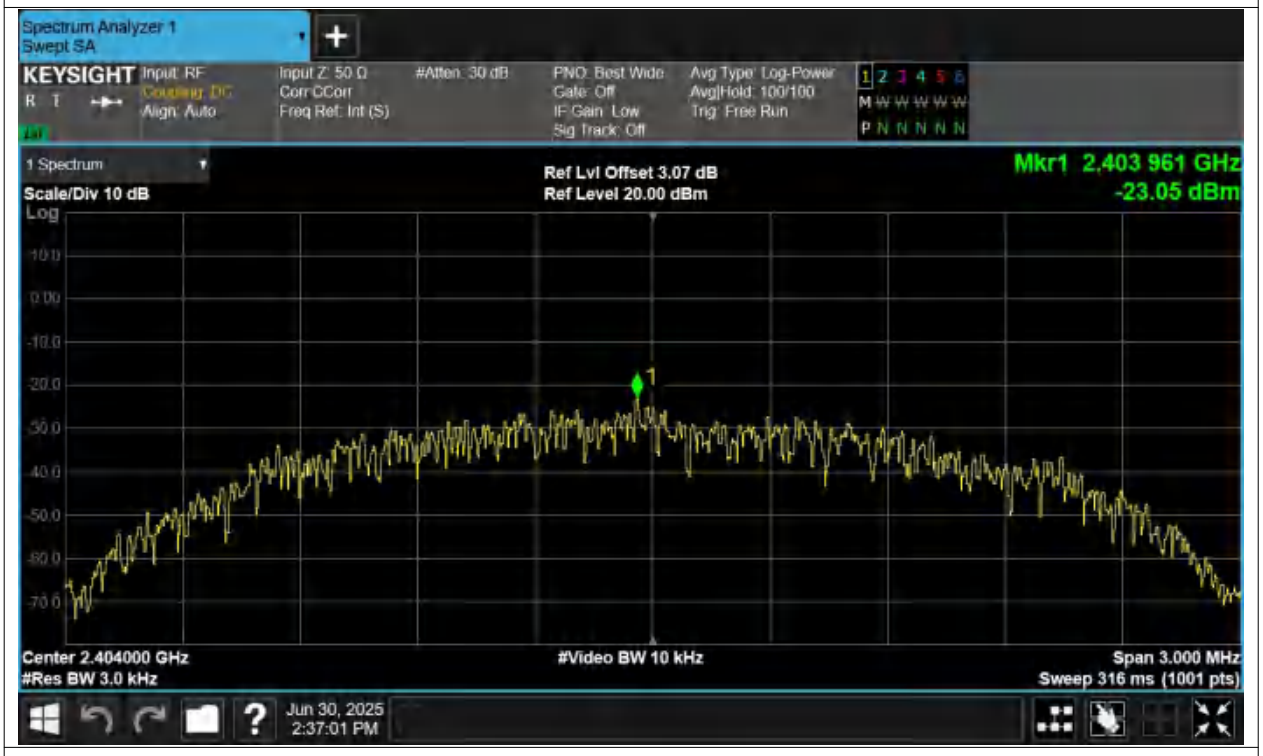
PSD NVNT BLE 2442MHz Ant1



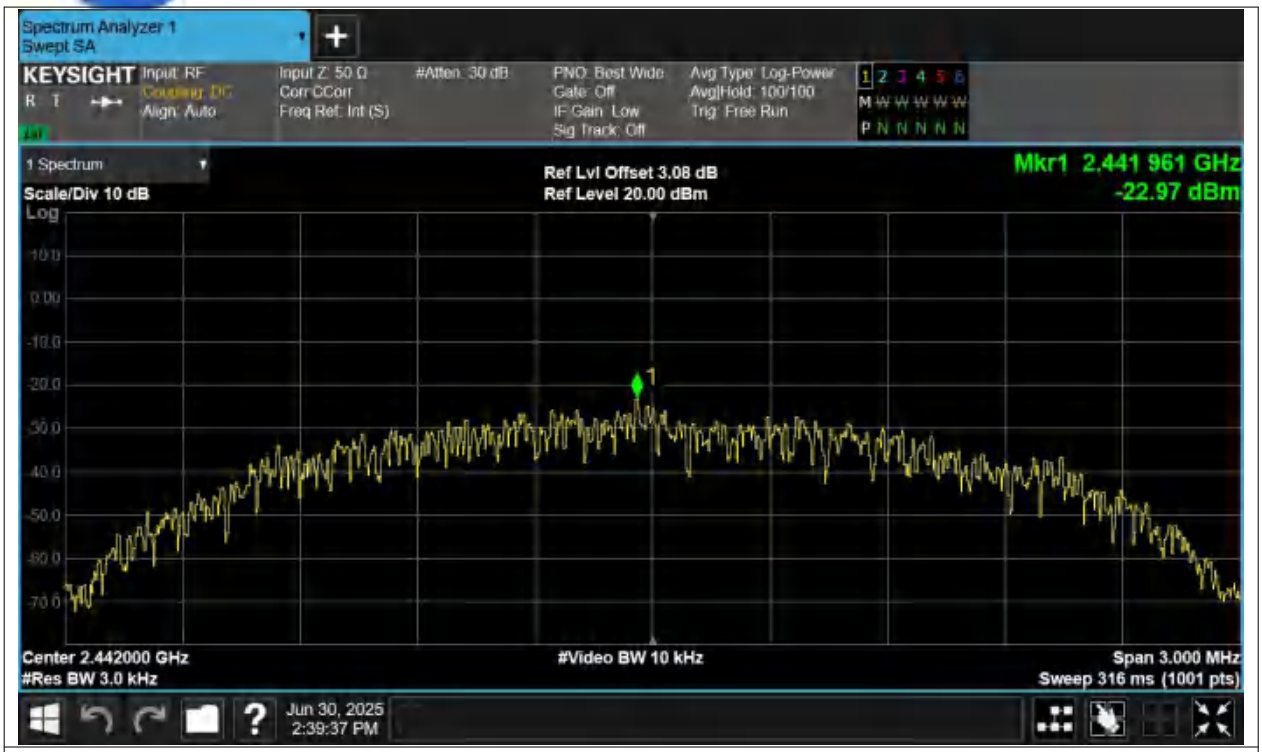
PSD NVNT BLE 2480MHz Ant1



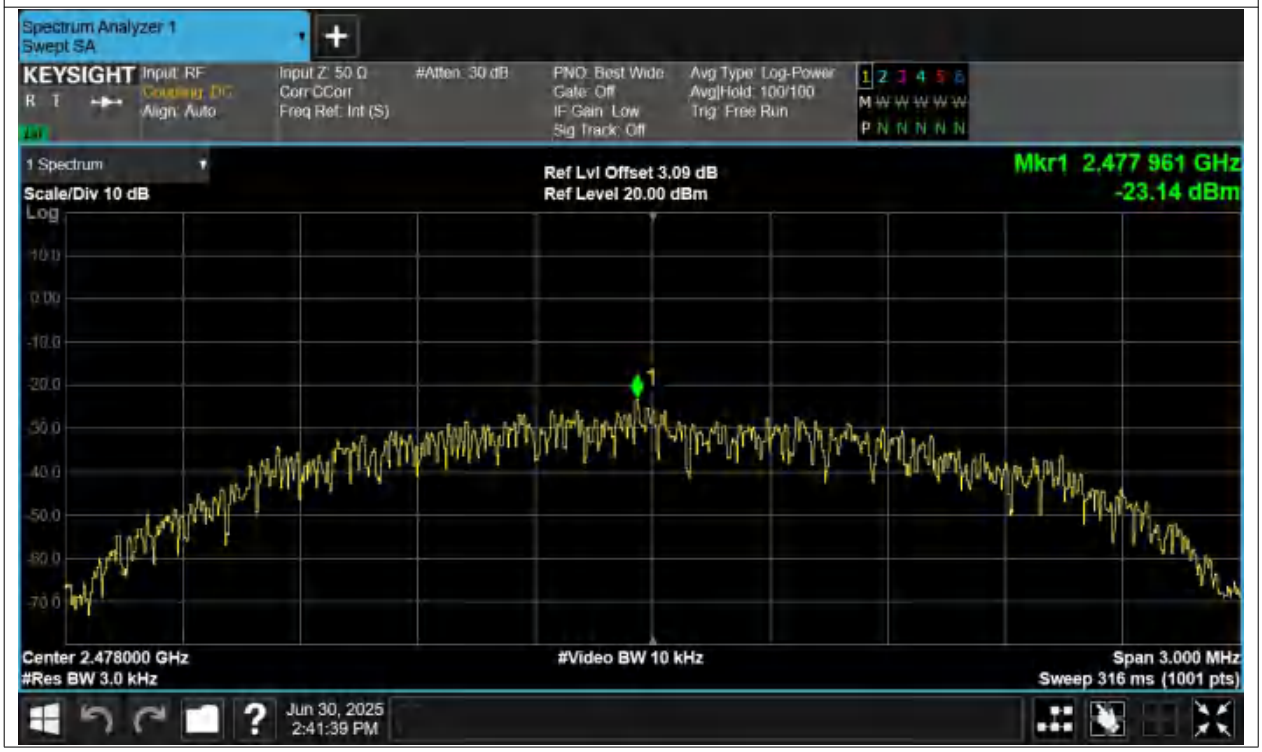
Test Graphs
PSD NVNT BLE 2404MHz Ant1



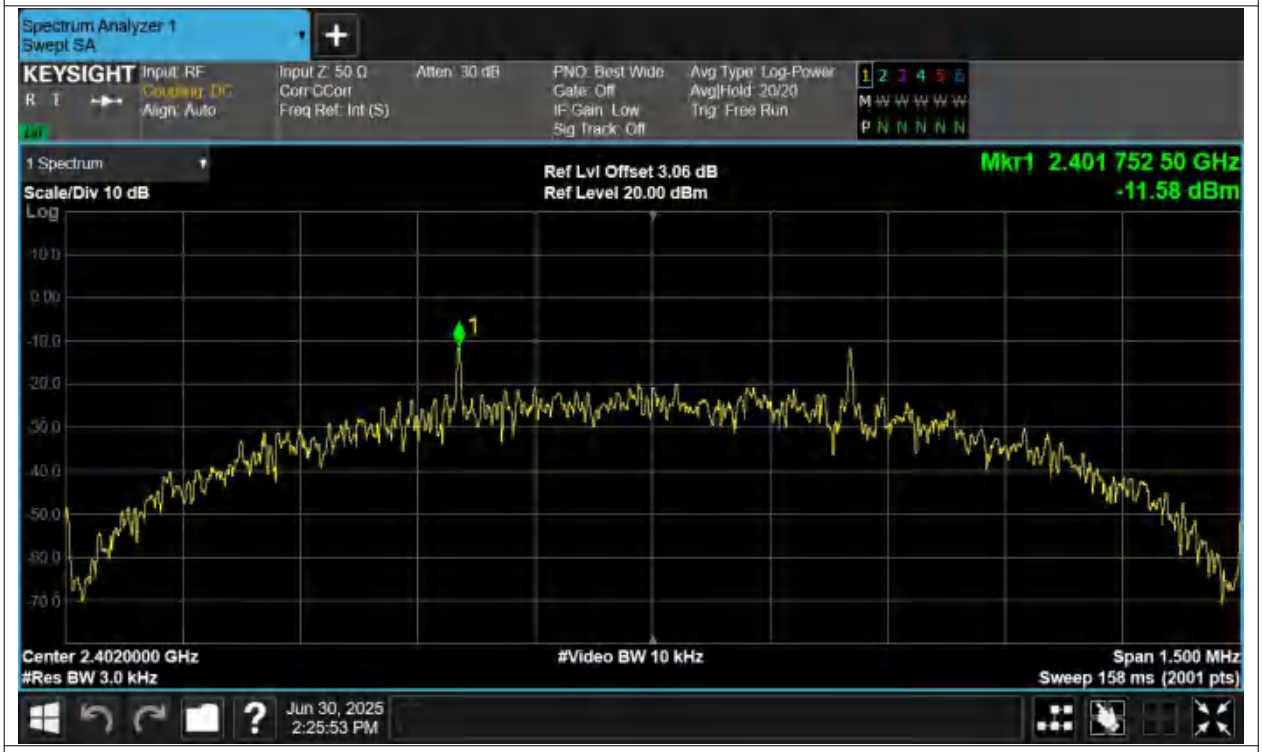
PSD NVNT BLE 2442MHz Ant1



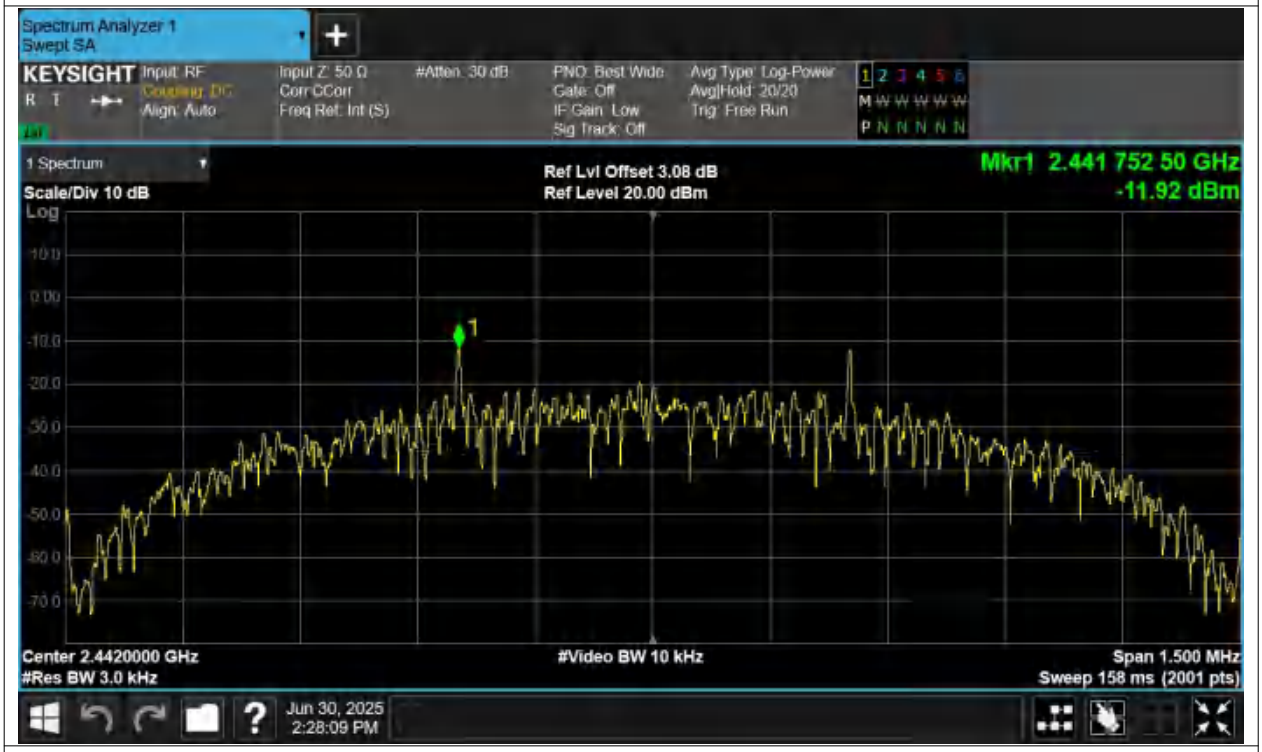
PSD NVNT BLE 2478MHz Ant1



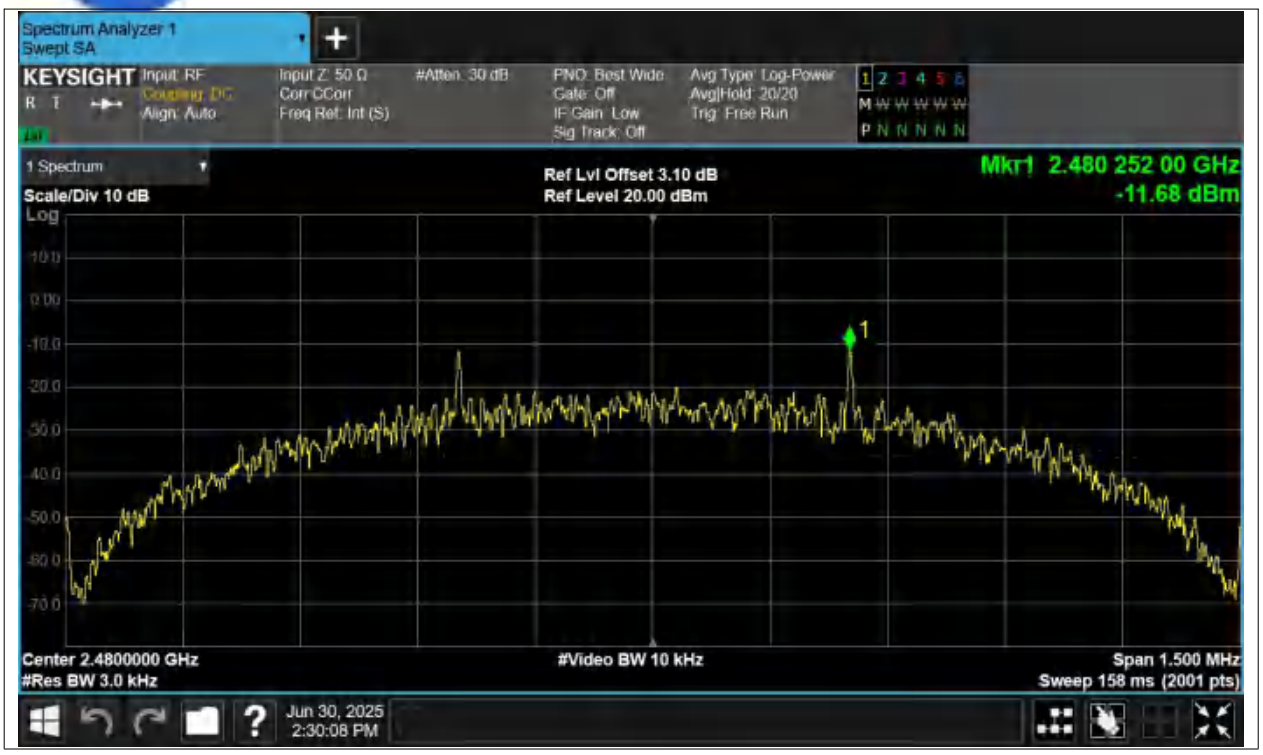
Test Graphs
PSD NVNT BLE 2402MHz Ant1



PSD NVNT BLE 2442MHz Ant1



PSD NVNT BLE 2480MHz Ant1

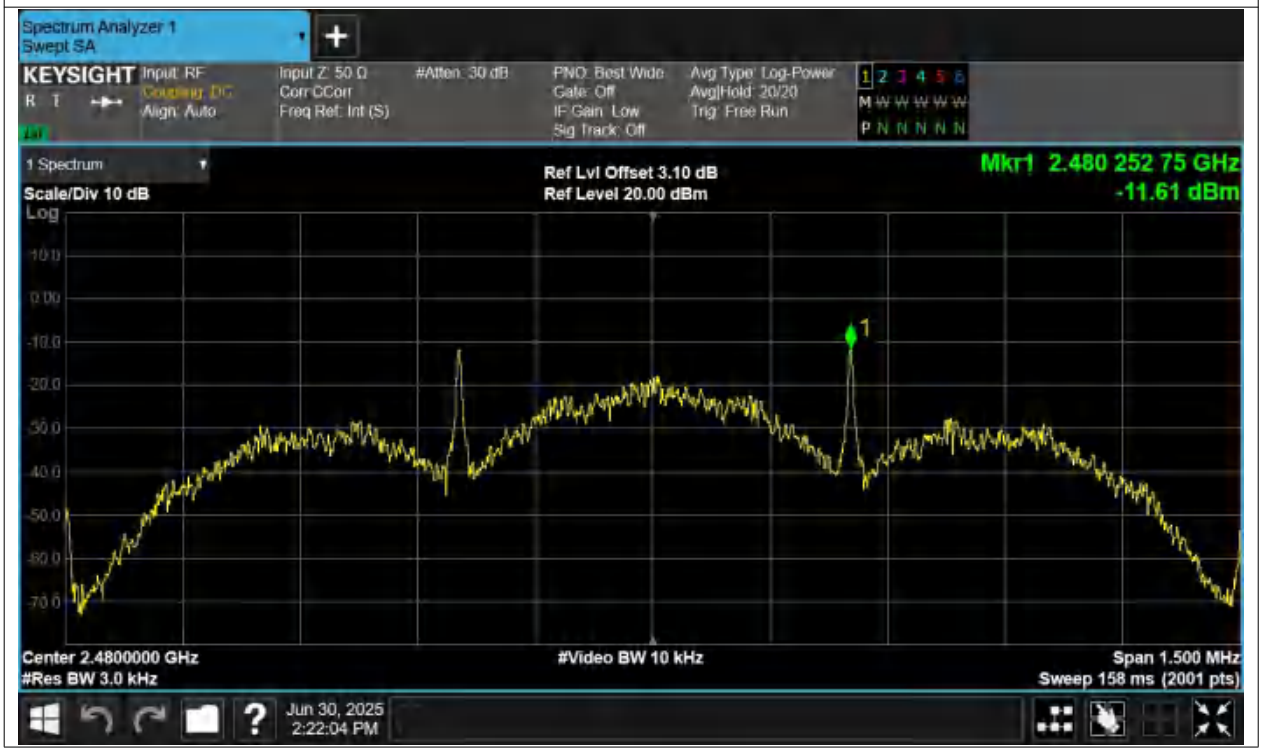


Test Graphs

PSD NVNT BLE 2402MHz Ant1

PSD NVNT BLE 2442MHz Ant1

PSD NVNT BLE 2480MHz Ant1



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+BT TX

Test voltage: AC 120V/60Hz

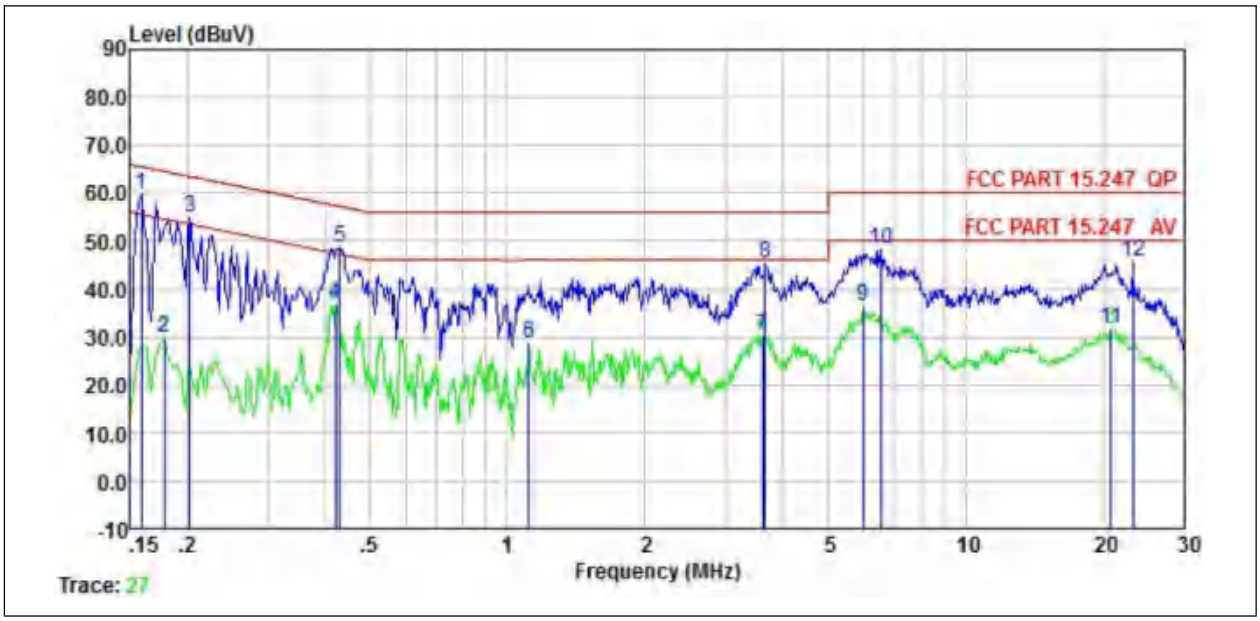
The measurement results are obtained as below:

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

U_R: Receiver Reading

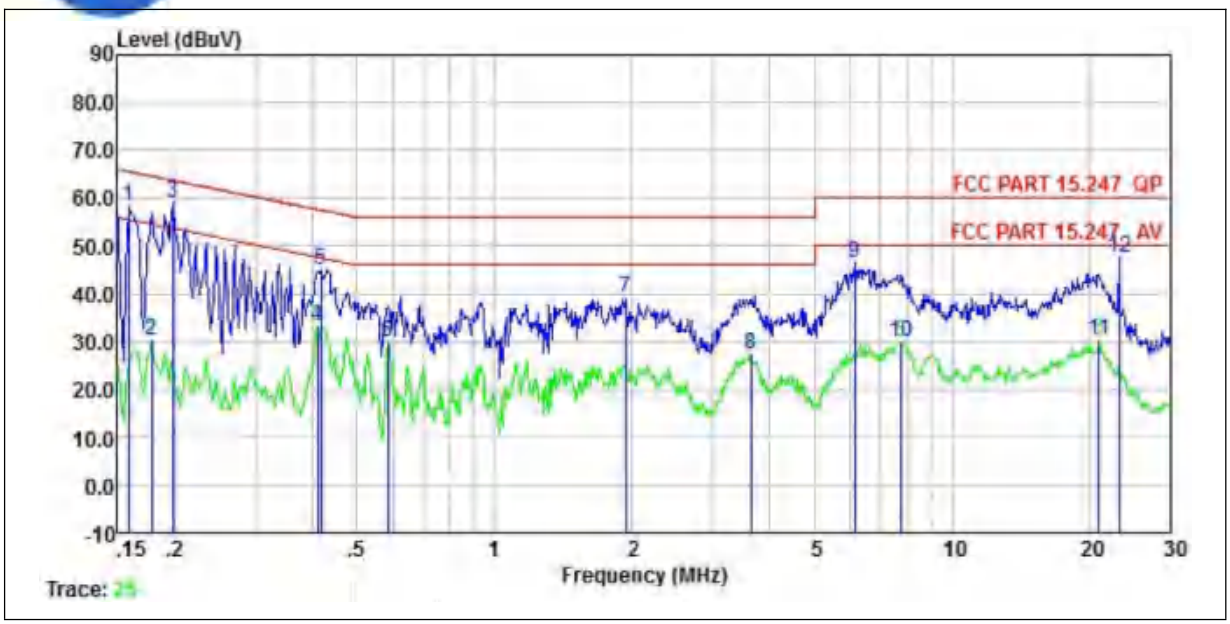
A_{Factor}: Voltage division factor of LISN

B. Test Plot:



(L 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	0.158	39.53	10.18	0.00	9.88	0.01	59.60	65.56	-5.96	QP
2	0.178	9.69	10.14	0.00	9.88	0.01	29.72	54.59	-24.87	Average
3	0.202	35.10	10.10	0.00	9.88	0.04	55.12	63.54	-8.42	QP
4	0.421	16.86	10.11	0.00	9.88	0.04	36.89	47.42	-10.53	Average
5	0.431	28.54	10.12	0.00	9.88	0.03	48.57	57.24	-8.67	QP
6	1.111	8.80	10.18	0.00	9.88	0.07	28.93	46.00	-17.07	Average
7	3.603	10.24	10.17	0.00	9.89	0.08	30.38	46.00	-15.62	Average
8	3.661	25.07	10.16	0.00	9.89	0.08	45.20	56.00	-10.80	QP
9	5.993	16.27	10.35	0.00	9.90	0.09	36.61	50.00	-13.39	Average
10	6.523	27.93	10.38	0.00	9.90	0.10	48.31	60.00	-11.69	QP
11	20.814	11.11	10.39	0.00	9.97	0.18	31.65	50.00	-18.35	Average
12	23.263	25.30	10.36	0.00	9.99	0.17	45.82	60.00	-14.18	QP



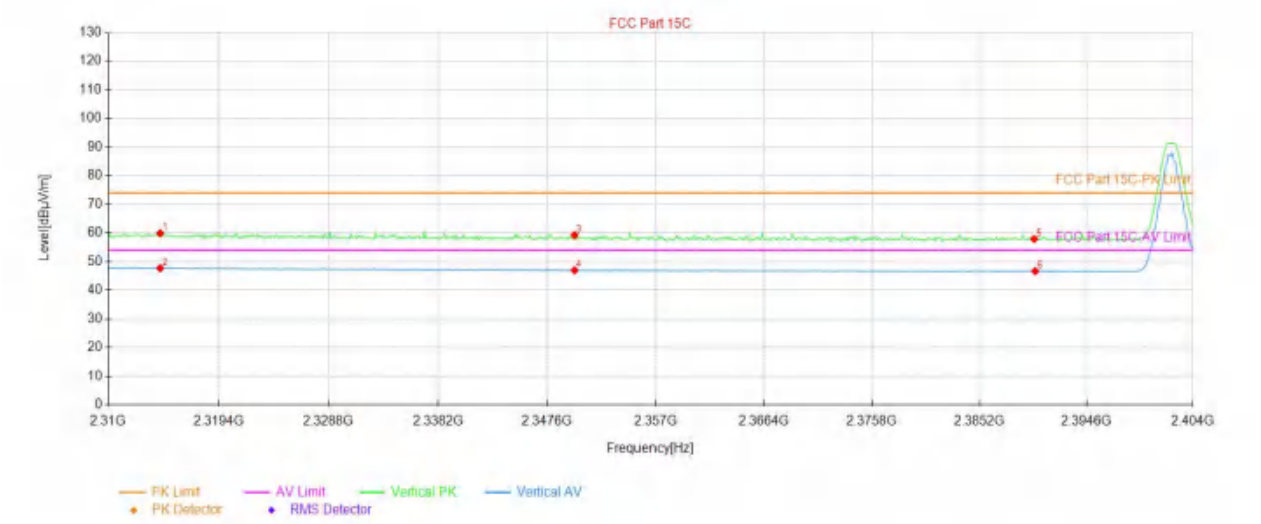
(N Phase)

	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	0.158	38.10	10.20	0.00	9.88	0.01	58.19	65.56	-7.37	QP
2	0.178	10.00	10.20	0.00	9.88	0.01	30.09	54.59	-24.50	Average
3	0.198	38.93	10.20	0.00	9.88	0.04	59.05	63.71	-4.66	QP
4	0.410	13.13	10.11	0.00	9.88	0.04	33.16	47.64	-14.48	Average
5	0.417	25.07	10.12	0.00	9.88	0.04	45.11	57.51	-12.40	QP
6	0.585	9.63	10.29	0.00	9.88	0.02	29.82	46.00	-16.18	Average
7	1.939	18.73	10.30	0.00	9.88	0.20	39.11	56.00	-16.89	QP
8	3.642	7.03	10.20	0.00	9.89	0.08	27.20	46.00	-18.80	Average
9	6.153	26.15	10.26	0.00	9.90	0.09	46.40	60.00	-13.60	QP
10	7.728	9.57	10.30	0.00	9.90	0.10	29.87	50.00	-20.13	Average
11	21.035	9.35	10.59	0.00	9.97	0.17	30.08	50.00	-19.92	Average
12	23.263	26.96	10.56	0.00	9.99	0.17	47.68	60.00	-12.32	QP

A.7. Restricted Frequency Bands

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Vertical) was recorded in this test report.

Product Name:	Tablet	**Product Model:**	XL100
Test By:	Gao Jianrou	**Test mode:**	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	DC 3.8V		



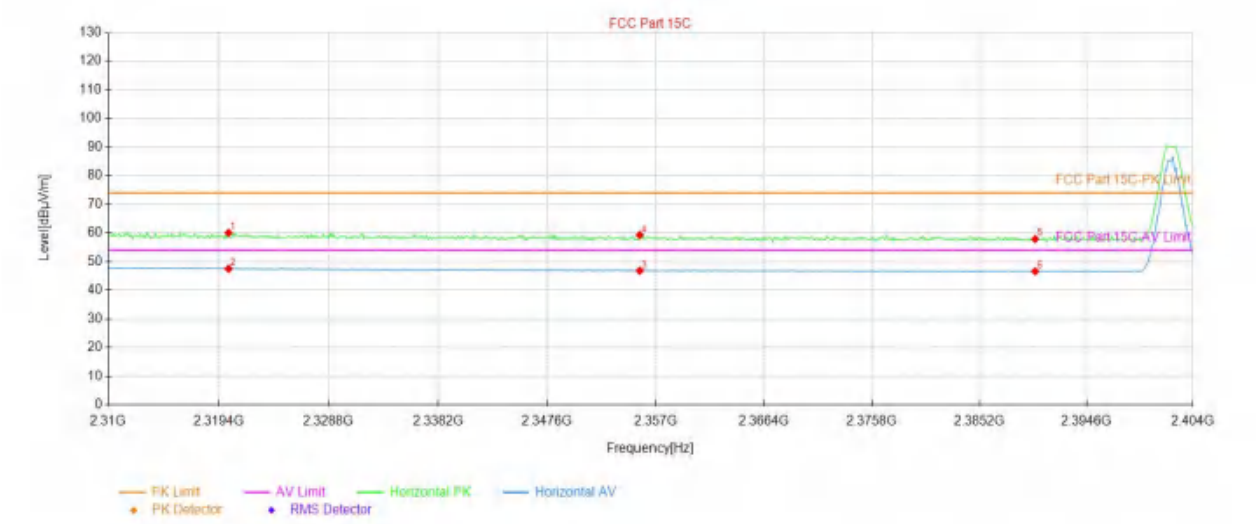
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2314.4	23.33	36.50	59.83	74.00	14.17	60	PK	PASS	Vertical
2	2314.4	11.16	36.50	47.66	54.00	6.34	171	AV	PASS	Vertical
3	2349.9	23.23	35.97	59.20	74.00	14.80	30	PK	PASS	Vertical
4	2349.9	10.99	35.97	46.96	54.00	7.04	127	AV	PASS	Vertical
5	2390.0	21.92	35.93	57.85	74.00	16.15	313	PK	PASS	Vertical
6	2390.0	10.71	35.93	46.64	54.00	7.36	313	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:**	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	**Polarization:**	Horizontal
Test Voltage:	DC 3.8V		



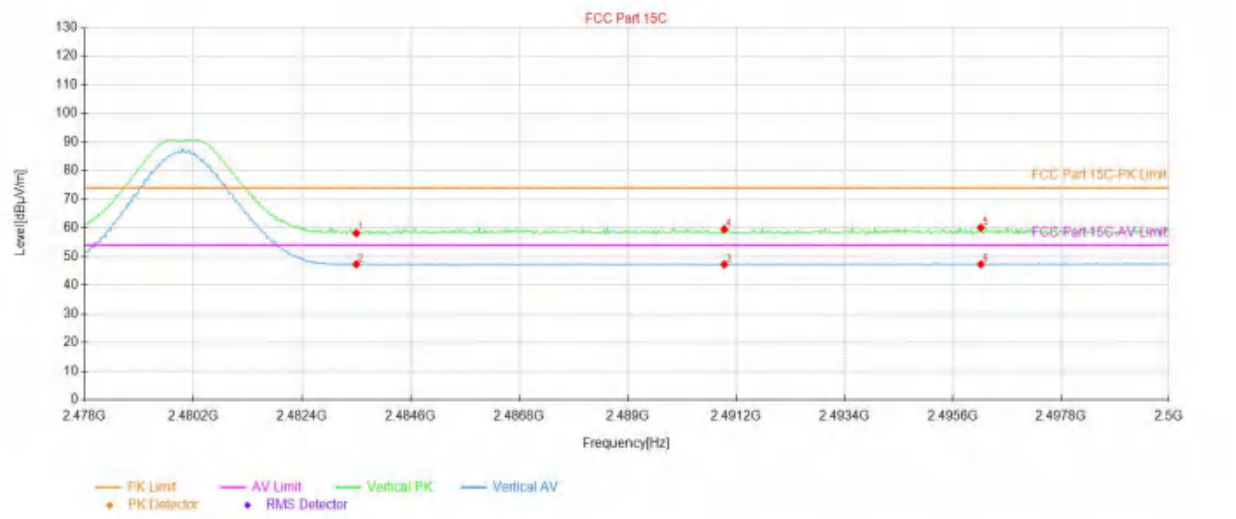
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2320.2	23.60	36.40	60.00	74.00	14.00	303	PK	PASS	Horizonta
2	2320.2	11.07	36.40	47.47	54.00	6.53	95	AV	PASS	Horizonta
3	2355.5	10.81	35.97	46.78	54.00	7.22	80	AV	PASS	Horizonta
4	2355.5	23.26	35.97	59.23	74.00	14.77	296	PK	PASS	Horizonta
5	2390.0	21.93	35.93	57.86	74.00	16.14	69	PK	PASS	Horizonta
6	2390.0	10.65	35.93	46.58	54.00	7.42	69	AV	PASS	Horizonta

Remark:

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

Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



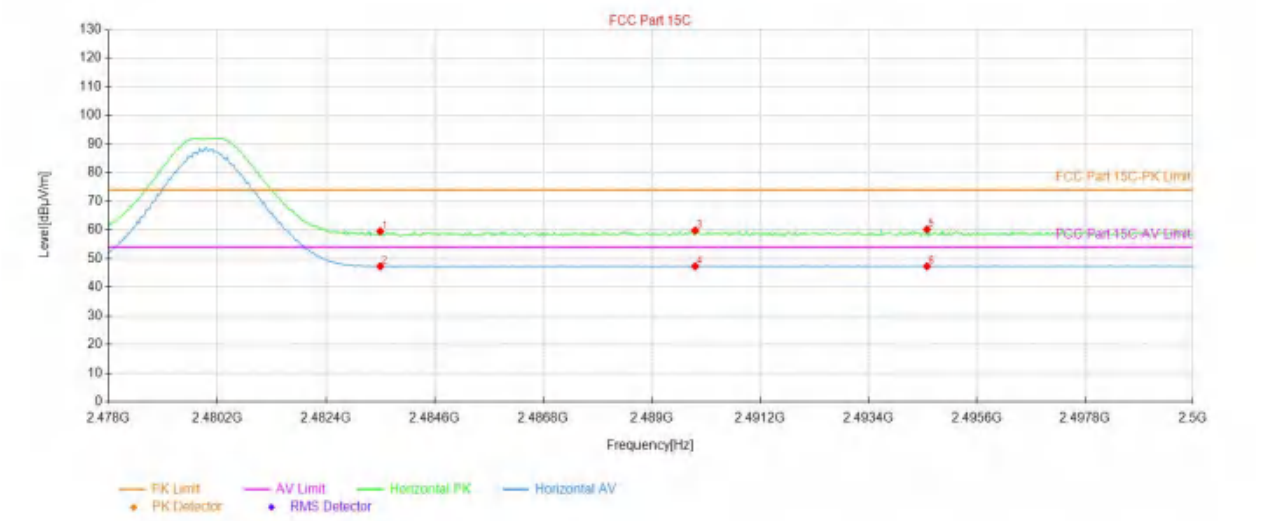
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	21.93	36.24	58.17	74.00	15.83	289	PK	PASS	Vertical
2	2483.5	11.05	36.24	47.29	54.00	6.71	128	AV	PASS	Vertical
3	2490.9	10.95	36.30	47.25	54.00	6.75	166	AV	PASS	Vertical
4	2490.9	23.15	36.30	59.45	74.00	14.55	282	PK	PASS	Vertical
5	2496.1	23.71	36.34	60.05	74.00	13.95	211	PK	PASS	Vertical
6	2496.1	10.96	36.34	47.30	54.00	6.70	46	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:**	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	**Polarization:**	Horizontal
Test Voltage:	DC 3.8V		



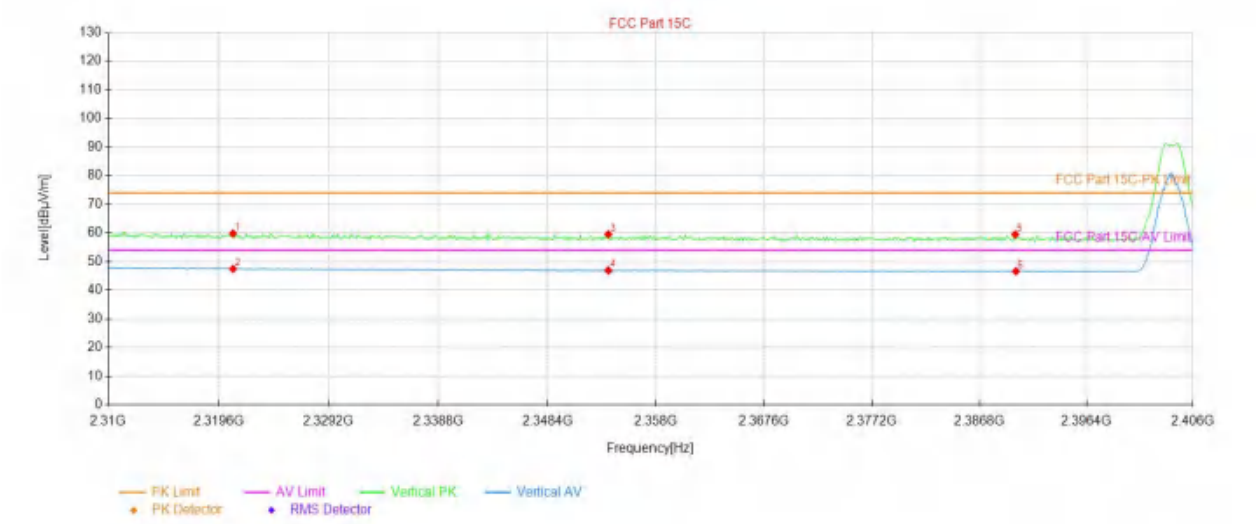
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	23.25	36.24	59.49	74.00	14.51	214	PK	PASS	Horizonta
2	2483.5	11.03	36.24	47.27	54.00	6.73	211	AV	PASS	Horizonta
3	2489.8	23.47	36.30	59.77	74.00	14.23	170	PK	PASS	Horizonta
4	2489.8	11.00	36.30	47.30	54.00	6.70	340	AV	PASS	Horizonta
5	2494.5	23.80	36.34	60.14	74.00	13.86	42	PK	PASS	Horizonta
6	2494.5	10.94	36.34	47.28	54.00	6.72	184	AV	PASS	Horizonta

Remark:

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

Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



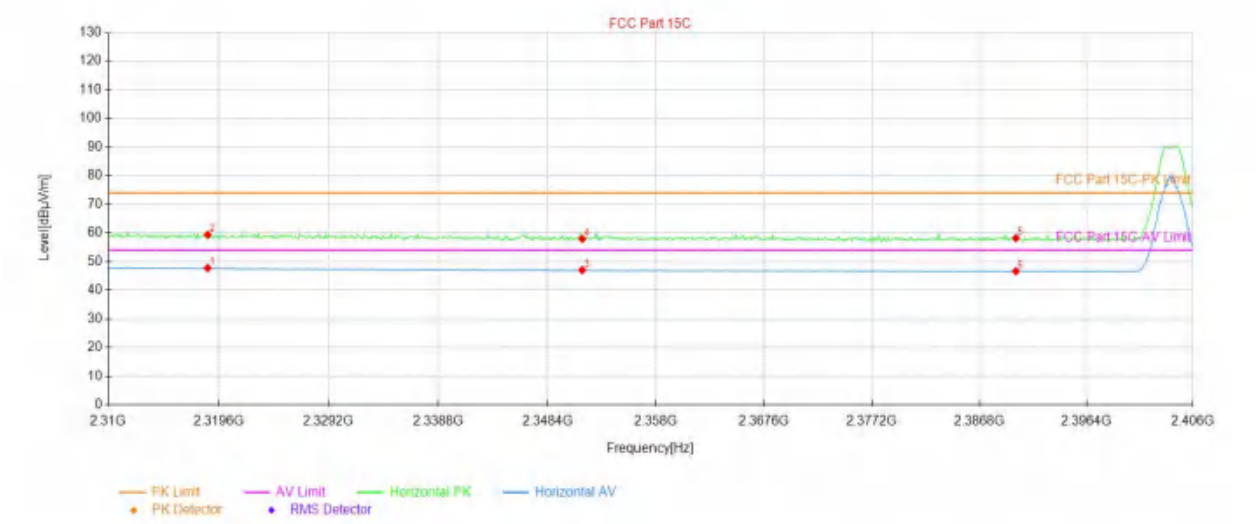
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2320.8	23.38	36.39	59.77	74.00	14.23	239	PK	PASS	Vertical
2	2320.8	11.05	36.39	47.44	54.00	6.56	164	AV	PASS	Vertical
3	2353.7	23.51	35.96	59.47	74.00	14.53	213	PK	PASS	Vertical
4	2353.7	10.90	35.96	46.86	54.00	7.14	183	AV	PASS	Vertical
5	2390.0	23.50	35.93	59.43	74.00	14.57	67	PK	PASS	Vertical
6	2390.0	10.67	35.93	46.60	54.00	7.40	168	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:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



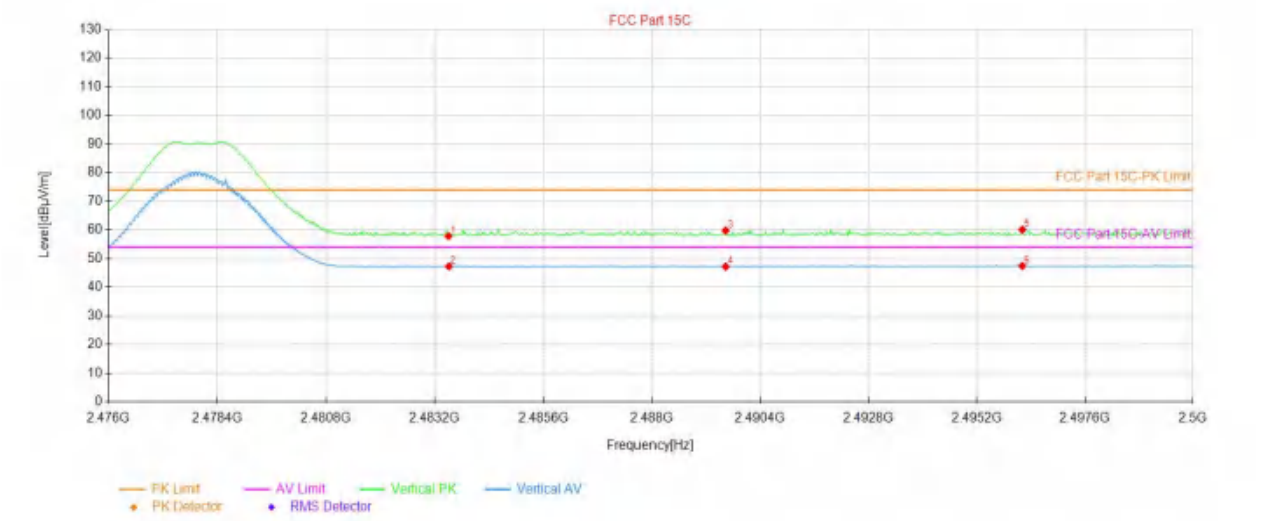
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2318.6	11.32	36.42	47.74	54.00	6.26	14	AV	PASS	Horizonta
2	2318.6	22.92	36.42	59.34	74.00	14.66	356	PK	PASS	Horizonta
3	2351.4	11.06	35.96	47.02	54.00	6.98	274	AV	PASS	Horizonta
4	2351.4	21.96	35.96	57.92	74.00	16.08	274	PK	PASS	Horizonta
5	2390.0	22.23	35.93	58.16	74.00	15.84	330	PK	PASS	Horizonta
6	2390.0	10.70	35.93	46.63	54.00	7.37	51	AV	PASS	Horizonta

Remark:

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

Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



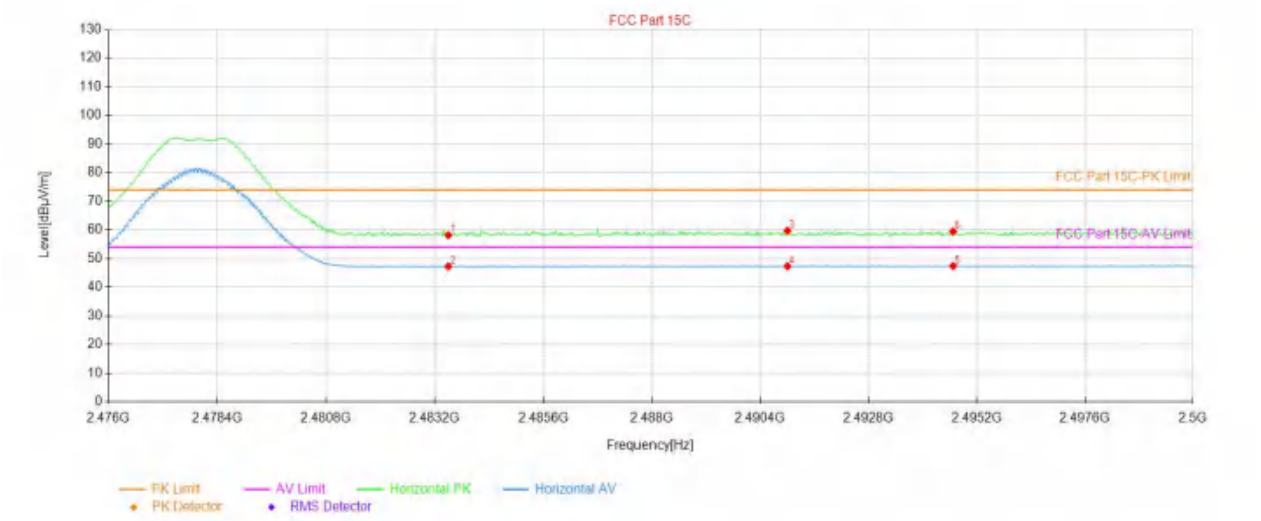
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	21.57	36.24	57.81	74.00	16.19	151	PK	PASS	Vertical
2	2483.5	11.00	36.24	47.24	54.00	6.76	162	AV	PASS	Vertical
3	2489.6	23.45	36.29	59.74	74.00	14.26	304	PK	PASS	Vertical
4	2489.6	10.91	36.29	47.20	54.00	6.80	159	AV	PASS	Vertical
5	2496.2	23.72	36.34	60.06	74.00	13.94	337	PK	PASS	Vertical
6	2496.2	11.06	36.34	47.40	54.00	6.60	214	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:**	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	**Polarization:**	Horizontal
Test Voltage:	DC 3.8V		



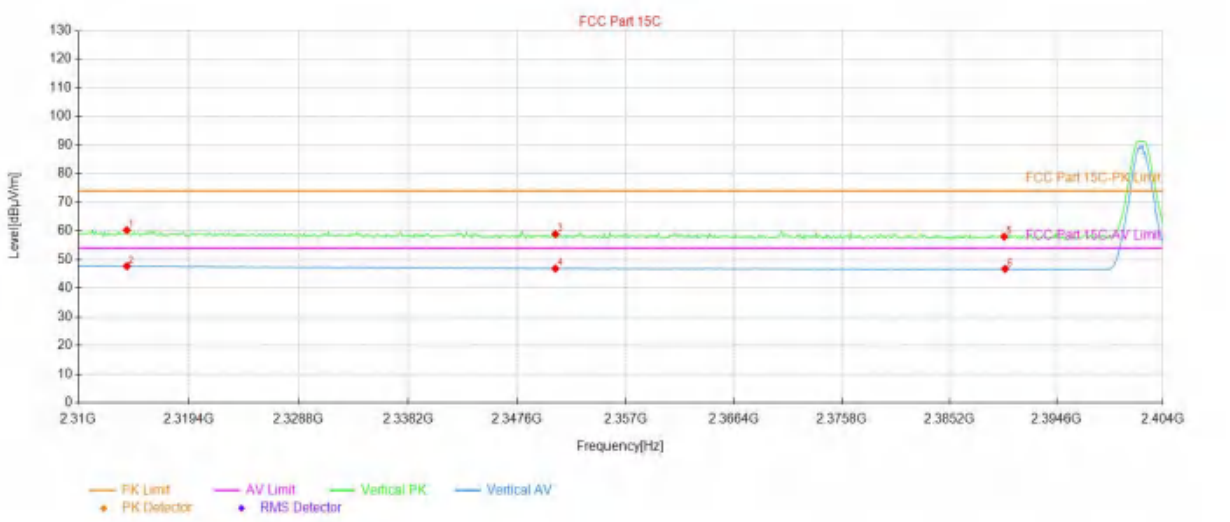
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	21.91	36.24	58.15	74.00	15.85	262	PK	PASS	Horizonta
2	2483.5	11.01	36.24	47.25	54.00	6.75	280	AV	PASS	Horizonta
3	2491.0	23.35	36.30	59.65	74.00	14.35	205	PK	PASS	Horizonta
4	2491.0	10.99	36.30	47.29	54.00	6.71	217	AV	PASS	Horizonta
5	2494.6	11.03	36.34	47.37	54.00	6.63	52	AV	PASS	Horizonta
6	2494.6	23.08	36.34	59.42	74.00	14.58	131	PK	PASS	Horizonta

Remark:

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

Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



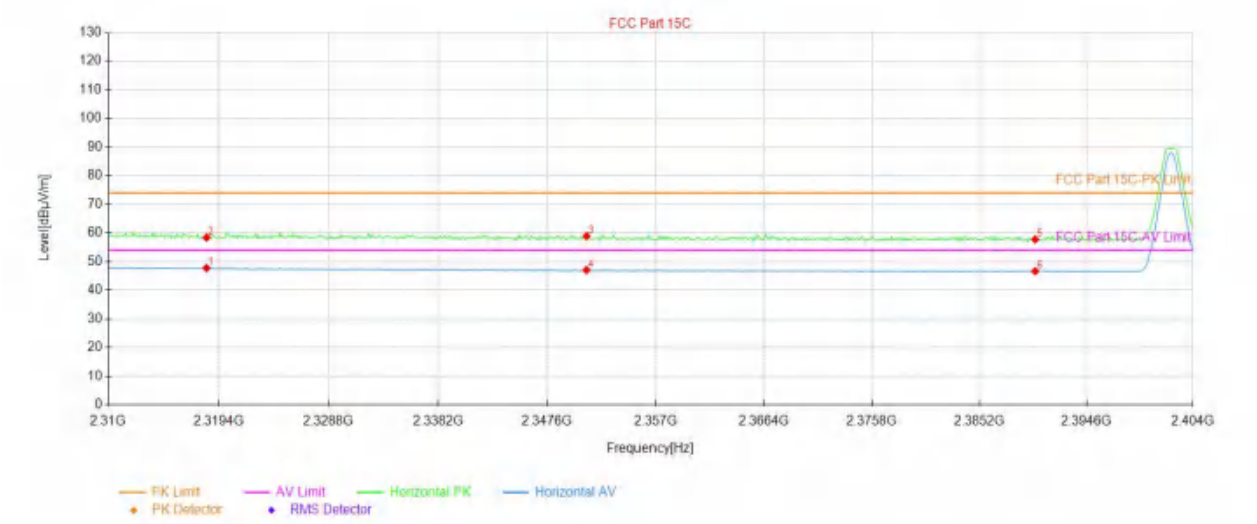
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2314.1	23.73	36.50	60.23	74.00	13.77	128	PK	PASS	Vertical
2	2314.1	11.19	36.50	47.69	54.00	6.31	2	AV	PASS	Vertical
3	2350.8	22.88	35.97	58.85	74.00	15.15	113	PK	PASS	Vertical
4	2350.8	10.88	35.97	46.85	54.00	7.15	306	AV	PASS	Vertical
5	2390.0	22.08	35.93	58.01	74.00	15.99	64	PK	PASS	Vertical
6	2390.0	10.84	35.93	46.77	54.00	7.23	212	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:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



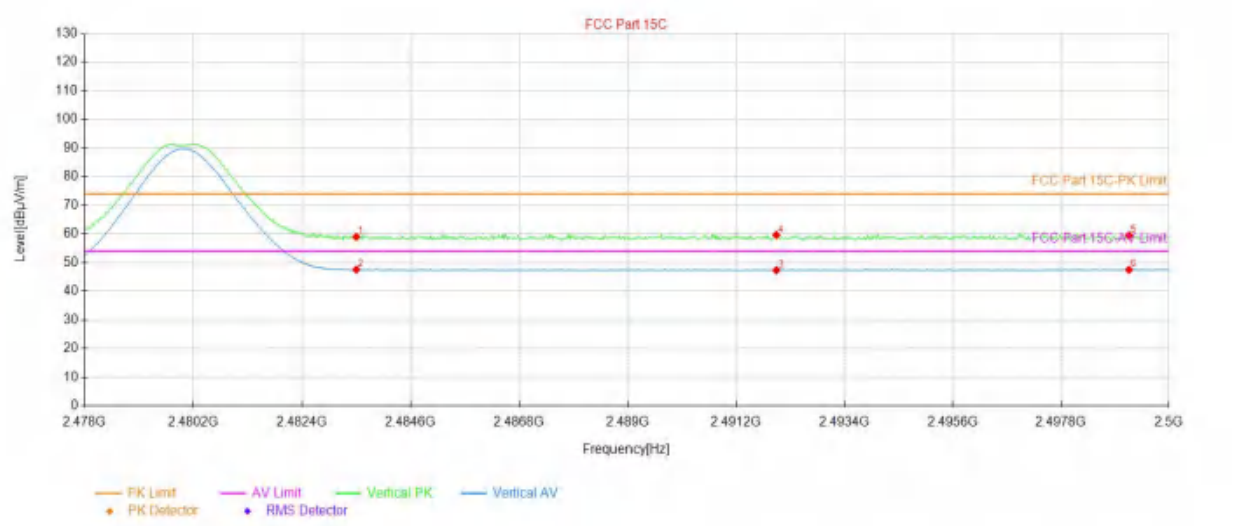
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2318.3	11.31	36.43	47.74	54.00	6.26	138	AV	PASS	Horizonta
2	2318.3	21.94	36.43	58.37	74.00	15.63	281	PK	PASS	Horizonta
3	2350.9	22.88	35.97	58.85	74.00	15.15	164	PK	PASS	Horizonta
4	2350.9	11.06	35.97	47.03	54.00	6.97	322	AV	PASS	Horizonta
5	2390.0	21.76	35.93	57.69	74.00	16.31	221	PK	PASS	Horizonta
6	2390.0	10.70	35.93	46.63	54.00	7.37	30	AV	PASS	Horizonta

Remark:

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

Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



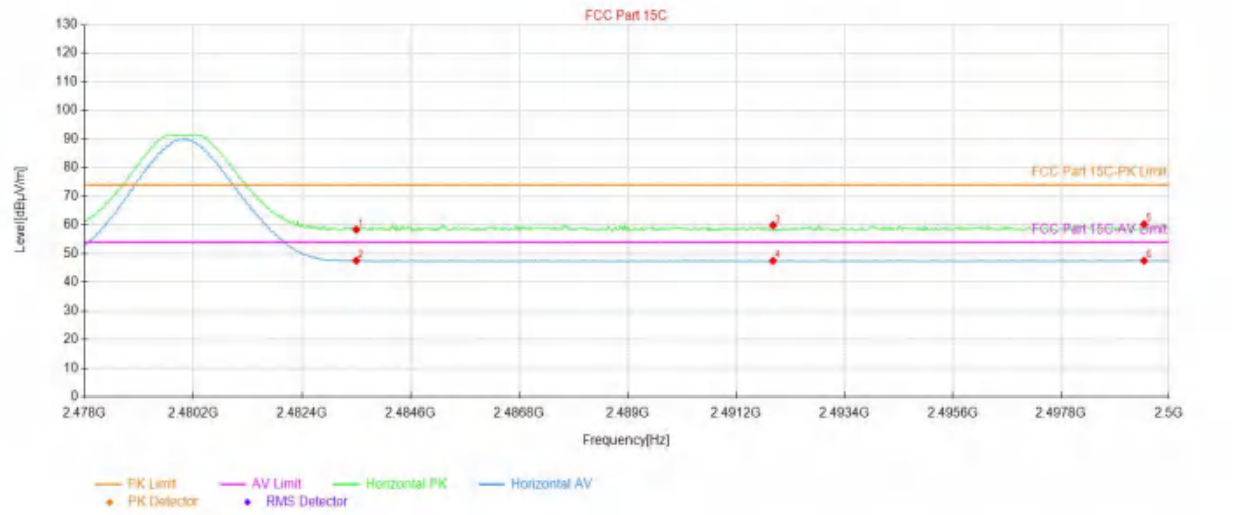
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	22.23	36.74	58.97	74.00	15.03	261	PK	PASS	Vertical
2	2483.5	10.77	36.74	47.51	54.00	6.49	212	AV	PASS	Vertical
3	2492.0	10.56	36.76	47.32	54.00	6.68	301	AV	PASS	Vertical
4	2492.0	22.79	36.76	59.55	74.00	14.45	272	PK	PASS	Vertical
5	2499.1	22.64	36.78	59.42	74.00	14.58	160	PK	PASS	Vertical
6	2499.1	10.69	36.78	47.47	54.00	6.53	37	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:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



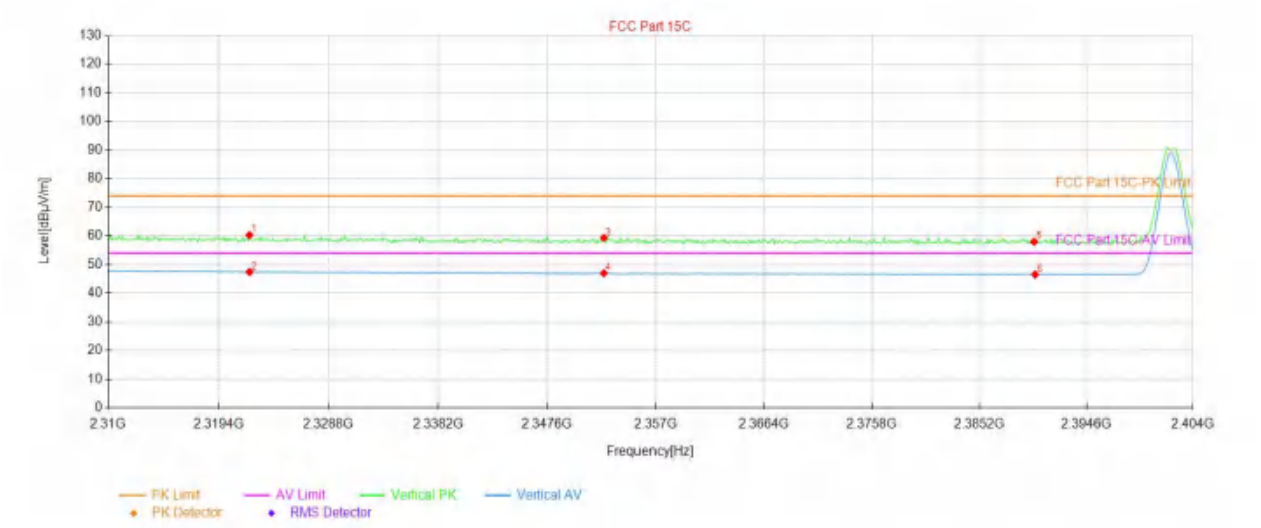
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	21.64	36.74	58.38	74.00	15.62	345	PK	PASS	Horizonta
2	2483.5	10.78	36.74	47.52	54.00	6.48	211	AV	PASS	Horizonta
3	2491.9	23.06	36.76	59.82	74.00	14.18	152	PK	PASS	Horizonta
4	2491.9	10.67	36.76	47.43	54.00	6.57	248	AV	PASS	Horizonta
5	2499.4	23.45	36.78	60.23	74.00	13.77	334	PK	PASS	Horizonta
6	2499.4	10.68	36.78	47.46	54.00	6.54	301	AV	PASS	Horizonta

Remark:

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

Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



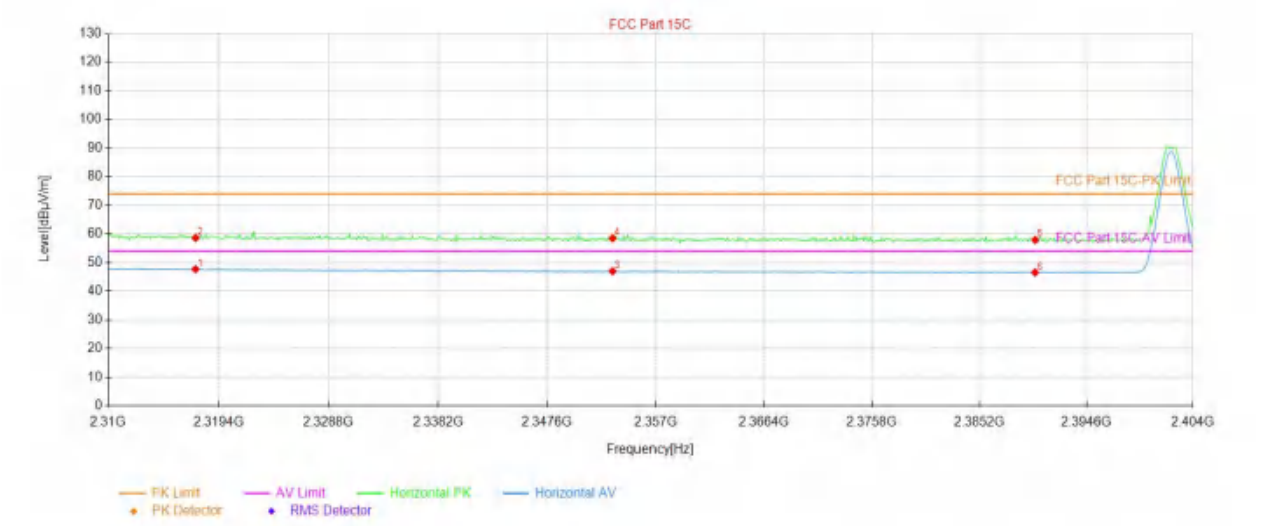
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2322.0	23.89	36.37	60.26	74.00	13.74	164	PK	PASS	Vertical
2	2322.0	11.03	36.37	47.40	54.00	6.60	22	AV	PASS	Vertical
3	2352.4	23.31	35.97	59.28	74.00	14.72	105	PK	PASS	Vertical
4	2352.4	11.01	35.97	46.98	54.00	7.02	2	AV	PASS	Vertical
5	2390.0	22.03	35.93	57.96	74.00	16.04	206	PK	PASS	Vertical
6	2390.0	10.58	35.93	46.51	54.00	7.49	8	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:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



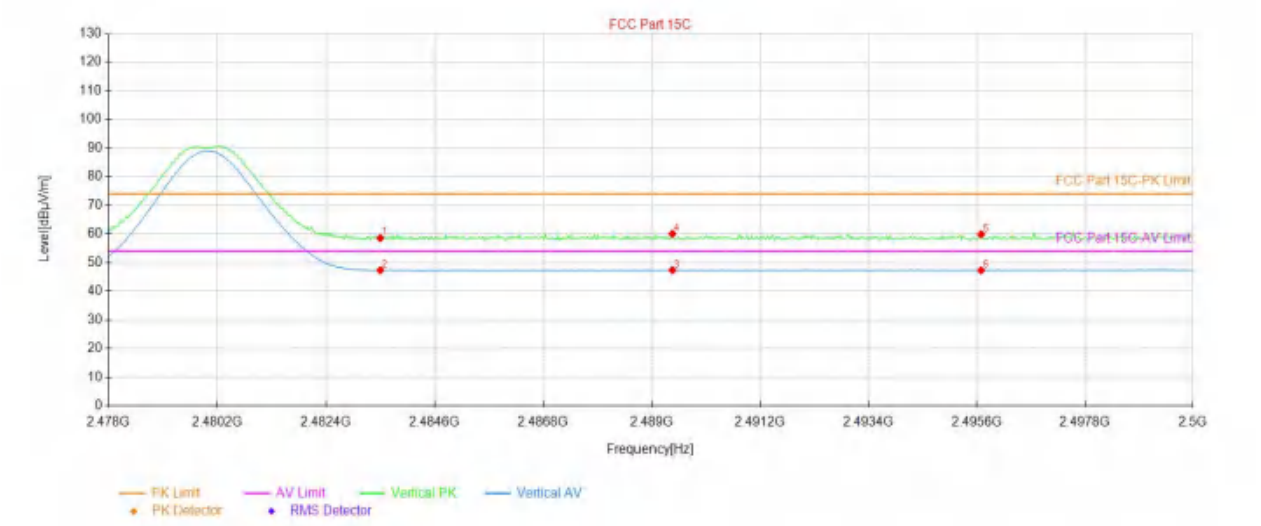
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2317.4	11.23	36.45	47.68	54.00	6.32	210	AV	PASS	Horizonta
2	2317.4	22.14	36.45	58.59	74.00	15.41	9	PK	PASS	Horizonta
3	2353.2	11.02	35.97	46.99	54.00	7.01	295	AV	PASS	Horizonta
4	2353.2	22.51	35.97	58.48	74.00	15.52	199	PK	PASS	Horizonta
5	2390.0	21.96	35.93	57.89	74.00	16.11	229	PK	PASS	Horizonta
6	2390.0	10.60	35.93	46.53	54.00	7.47	69	AV	PASS	Horizonta

Remark:

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

Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.8V		



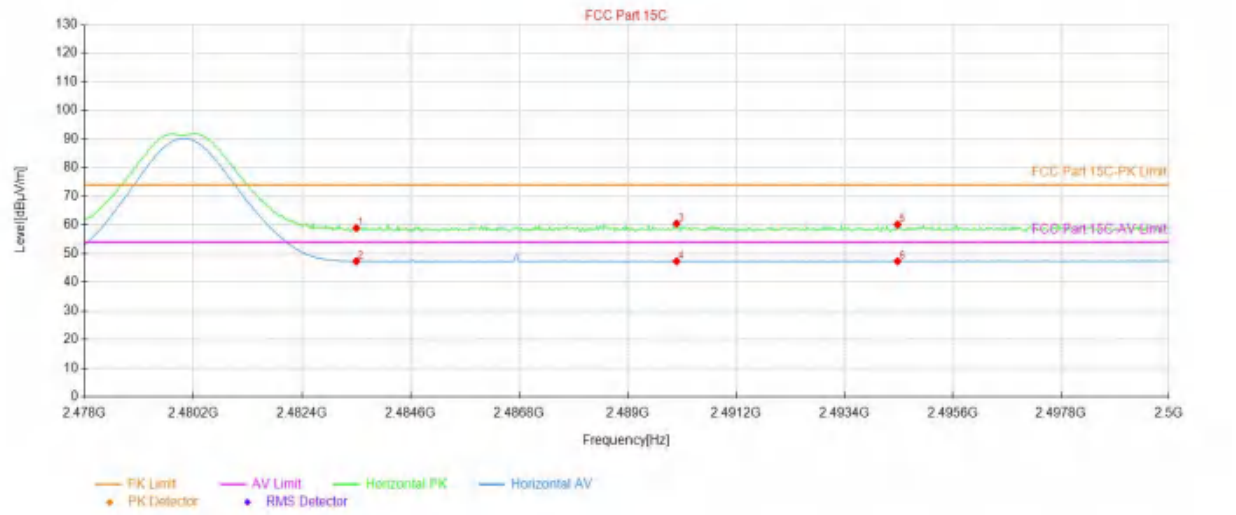
Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.5	22.29	36.24	58.53	74.00	15.47	311	PK	PASS	Vertical
2	2483.5	11.09	36.24	47.33	54.00	6.67	300	AV	PASS	Vertical
3	2489.4	11.05	36.29	47.34	54.00	6.66	170	AV	PASS	Vertical
4	2489.4	23.73	36.29	60.02	74.00	13.98	177	PK	PASS	Vertical
5	2495.6	23.50	36.34	59.84	74.00	14.16	203	PK	PASS	Vertical
6	2495.6	10.92	36.34	47.26	54.00	6.74	1	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:	BLE Tx (LE Coded PHY, S=8)
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	22.63	36.24	58.87	74.00	15.13	4	PK	PASS	Horizonta
2	2483.5	11.06	36.24	47.30	54.00	6.70	209	AV	PASS	Horizonta
3	2489.9	24.13	36.30	60.43	74.00	13.57	183	PK	PASS	Horizonta
4	2489.9	10.98	36.30	47.28	54.00	6.72	138	AV	PASS	Horizonta
5	2494.4	23.80	36.33	60.13	74.00	13.87	4	PK	PASS	Horizonta
6	2494.4	10.98	36.33	47.31	54.00	6.69	175	AV	PASS	Horizonta

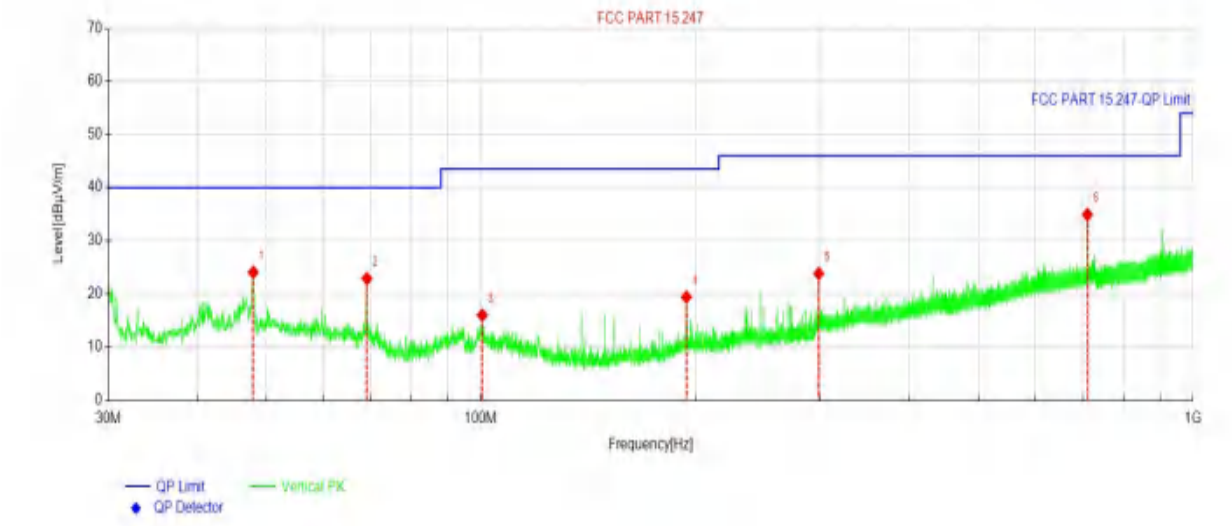
Remark:

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

A.8. Radiated Emission

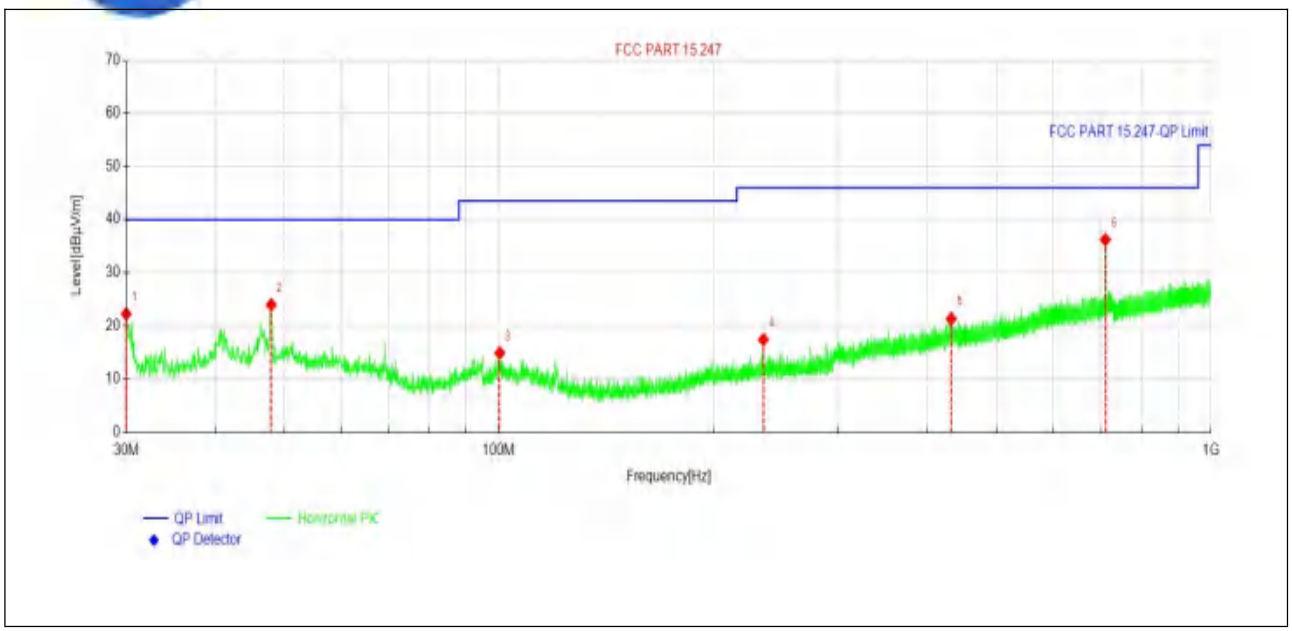
According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with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

The measurement results are obtained as below:
$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m
During the test, the total correction Factor A_T and A_{Factor} were built in test software.
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.
Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.
Note 4: All test modes were considered and evaluated respectively by performing full test, only the worst data were recorded.



(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	47.9459	36.46	-12.42	24.04	40.00	15.96	PK	Vertical
2	69.2385	39.13	-16.26	22.87	40.00	17.13	PK	Vertical
3	100.522	30.41	-14.42	15.99	43.50	27.51	PK	Vertical
4	194.471	34.60	-15.20	19.40	43.50	24.10	PK	Vertical
5	298.315	36.55	-12.74	23.81	46.00	22.19	PK	Vertical
6	710.925	39.87	-4.96	34.91	46.00	11.09	PK	Vertical



(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	30.0000	37.51	-15.26	22.25	40.00	17.75	PK	Horizontal
2	47.9459	36.36	-12.42	23.94	40.00	16.06	PK	Horizontal
3	100.328	29.32	-14.44	14.88	43.50	28.62	PK	Horizontal
4	235.310	31.41	-14.00	17.41	46.00	28.59	PK	Horizontal
5	431.939	31.20	-9.88	21.32	46.00	24.68	PK	Horizontal
6	710.877	41.18	-4.96	36.22	46.00	9.78	PK	Horizontal

Above 1GHz:

BLE Tx (LE 1M PHY)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization
4804.00	49.33	-7.98	41.35	74.00	32.65	Vertical
4804.00	49.41	-7.98	41.43	74.00	32.57	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Polarization
4804.00	39.78	-7.98	31.80	54.00	22.20	Vertical

4804.00	39.70	-7.98	31.72	54.00	22.28	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	49.33	-7.46	41.87	74.00	32.13	Vertical
4884.00	49.00	-7.46	41.54	74.00	32.46	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	39.74	-7.46	32.28	54.00	21.72	Vertical
4884.00	39.47	-7.46	32.01	54.00	21.99	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	49.05	-7.00	42.05	74.00	31.95	Vertical
4960.00	49.32	-7.00	42.32	74.00	31.68	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	39.83	-7.00	32.83	54.00	21.17	Vertical
4960.00	39.59	-7.00	32.59	54.00	21.41	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.*

BLE Tx (LE 2M PHY)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4808.00	49.21	-7.98	41.23	74.00	32.77	Vertical
4808.00	49.21	-7.98	41.23	74.00	32.77	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4808.00	39.69	-7.98	31.71	54.00	22.29	Vertical
4808.00	39.38	-7.98	31.40	54.00	22.60	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	49.20	-7.46	41.74	74.00	32.26	Vertical
4884.00	49.04	-7.46	41.58	74.00	32.42	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	39.64	-7.46	32.18	54.00	21.82	Vertical
4884.00	39.32	-7.46	31.86	54.00	22.14	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4956.00	49.00	-7.00	42.00	74.00	32.00	Vertical
4956.00	48.94	-7.00	41.94	74.00	32.06	Horizontal

Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4956.00	39.66	-7.00	32.66	54.00	21.34	Vertical
4956.00	39.83	-7.00	32.83	54.00	21.17	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.*

BEL Tx (LE Coded PHY, S=2)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	49.38	-7.98	41.40	74.00	32.60	Vertical
4804.00	49.39	-7.98	41.41	74.00	32.59	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	39.59	-7.98	31.61	54.00	22.39	Vertical
4804.00	39.53	-7.98	31.55	54.00	22.45	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	49.22	-7.46	41.76	74.00	32.24	Vertical
4884.00	49.46	-7.46	42.00	74.00	32.00	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	39.30	-7.46	31.84	54.00	22.16	Vertical
4884.00	39.54	-7.46	32.08	54.00	21.92	Horizontal

Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	49.33	-7.00	42.33	74.00	31.67	Vertical
4960.00	49.51	-7.00	42.51	74.00	31.49	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	39.32	-7.00	32.32	54.00	21.68	Vertical
4960.00	39.43	-7.00	32.43	54.00	21.57	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.*

BEL Tx (LE Coded PHY, S=8)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	49.04	-7.98	41.06	74.00	32.94	Vertical
4804.00	49.36	-7.98	41.38	74.00	32.62	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	39.55	-7.98	31.57	54.00	22.43	Vertical
4804.00	39.57	-7.98	31.59	54.00	22.41	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization

(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4884.00	49.37	-7.46	41.91	74.00	32.09	Vertical
4884.00	49.52	-7.46	42.06	74.00	31.94	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	39.76	-7.46	32.30	54.00	21.70	Vertical
4884.00	39.47	-7.46	32.01	54.00	21.99	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	49.43	-7.00	42.43	74.00	31.57	Vertical
4960.00	49.21	-7.00	42.21	74.00	31.79	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	39.50	-7.00	32.50	54.00	21.50	Vertical
4960.00	39.42	-7.00	32.42	54.00	21.58	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.*

4. Test Setup Photographs

Please refer to the Appendix D.

5. External And Internal Photos of The EUT

External Please refer to the Appendix G.

Internal Please refer to the Appendix H.

END OF REPORT