TEST REPORT

FCC ID: 2A954-M416

Product: 4G MIFI

Model No.: M5

Series models:M416 FIRSTNUM-M1 to M20

Trade Mark: FIRSTNUM/Stoneoim/VPLUS/SignalHive

Report No.: WSCT-ANAB-R&E250700062A-Wi-Fi

Issued Date: 21 August 2025

Issued for:

Shenzhen Firstnum E-commerce Co.,Ltd

611 BUILDING 11,PHASE II, NANSHAN YUNGU CHUANG YUAN PARK, NO.2 PINGSHAN YI ROAD, PINGSHAN COMMUNITY, TAOYUAN STREET, NANSHAN DISTRICT, SHENZHEN,CHINA

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd.

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1. Test Certification

Product:	4G MIFI
Model No.:	M5
Trade Mark:	FIRSTNUM/Stoneoim/VPLUS/SignalHive
Applicant:	**Shenzhen Firstnum E-commerce Co.,Ltd** 611 BUILDING 11,PHASE II, NANSHAN YUNGU CHUANG YUAN PARK, NO.2 PINGSHAN YI ROAD, PINGSHAN COMMUNITY, TAOYUAN STREET, NANSHAN DISTRICT, SHENZHEN,CHINA
Manufacturer:	**Shenzhen Firstnum E-commerce Co.,Ltd** 611 BUILDING 11,PHASE II, NANSHAN YUNGU CHUANG YUAN PARK, NO.2 PINGSHAN YI ROAD, PINGSHAN COMMUNITY, TAOYUAN STREET, NANSHAN DISTRICT, SHENZHEN,CHINA
Date of receipt	10 July 2025
Date of Test:	11 July 2025 to 21 August 2025
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247

The above equipment has been tested by World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Wang Xiang **(Wang Xiang)**

Checked By: Qin Shuiquan **(Qin Shuiquan)**

Approved By: Li Huaibi **(Li Huaibi)**

Date: 21 August 2025

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product:	4G MIFI
Model No.:	M5
Software Version	1.02ME/FN
Hardware Version	EZ01M3_MB_V1.0
Series models	M416 FIRSTNUM-M1 to M20
Trade Mark:	FIRSTNUM/Stoneoim/VPLUS/SignalHive
Operation Frequency:	2412MHz~2462MHz (802.11b/g/n/ax(HT20) 2422MHz~2452MHz (802.11n/ax(HT40)
Channel Separation:	5MHz
Modulation type:	DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b OFDM (BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM) for IEEE 802.11g/n/ax
Antenna Type:	Integral Antenna
Antenna Gain	2.24dBi
Operating Voltage:	Rechargeable Li-ion Polymer Battery: 675464ART Rated Voltage: 3.7V Limited Charge Voltage: 4.2V Rated Capacity: 3000mAh/11.1Wh
Remark:	N/A.

Note: 1. N/A stands for no applicable.
2. The antenna gain is provided by the customer. For any reported data issues caused by the antenna gain, World Standardization Certification&Testing Group (Shenzhen) Co., Ltd assumes no responsibility.
3. The M416 FIRSTNUM-M1 to M20 are all series models, differing only in their model names, while the specifications remain identical. The M5 is the primary measurement model.

Operation Frequency each of channel For 802.11b/g/n/ax(HT20)

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

Operation Frequency each of channel For 802.11n/ax (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
--	--	4	2427MHz	7	2442MHz	--	--
--	--	5	2432MHz	8	2447MHz	--	--
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/g/n/ax (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n/ax (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)
The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.
Mode
802.11b
802.11g
802.11n(H20)
802.11n(H40)
802.11ax(H20)
802.11ax(H40)

Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
1. For WIFI function, the engineering test program was provided and enabled to make EUT	

continuous transmit/receive.2.According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20).Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	/	U450TSB	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

All measurement facilities used to collect the measurement data are located at
World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.
Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

USA	**ANAB - Certificate Number: AT-3951**
China	**CNAS (Registration Number: L3732)**
Canada	**ISED(CAB identifier:CN0178)**

Copies of granted accreditation certificates are available for downloading from our web site, **http://www.wsct-cert.com**

5.3. Measurement Uncertainty

No.	Item	MU
1	Conducted Emission Test	±3.2dB
2	RF power, conducted	±2.4%
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1GHz)	±4.7dB
5	All emissions, radiated(>1GHz)	±4.7dB
6	Temperature	±0.5°C
7	Humidity	±2.0%
8	Receiver Spurious Emissions	±2.5%
9	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%
10	Transmitter Unwanted Emission in the out-of Band	±1.3%
11	Occupied Channel Bandwidth	±2.4%

NOTE:1.The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.
2. The Ulab is less than Ucispr, compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an adjustment is made follows：any additionan uncertaimty in the test system over and above that specified in harmonized standard should be used to tighter the test requirements-making the test harder to pass. This procedure will ensure that a test system not comliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system comliant with harmonized standard had been used.

5.4. MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
Test software	--	EZ-EMC	CON-03A	-	-
Test software	--	MTS8310	-	-	-
EMI Test Receiver	R&S	ESCI	100005	2024-11-05	2025-11-04
LISN	AFJ	LS16	16010222119	2024-11-05	2025-11-04
LISN(EUT)	Mestec	AN3016	04/10040	2024-11-05	2025-11-04
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	2024-11-05	2025-11-04
Coaxial cable	Megalon	LMR400	N/A	2024-11-05	2025-11-04
GPIB cable	Megalon	GPIB	N/A	2024-11-05	2025-11-04
Spectrum Analyzer	R&S	FSU	100114	2024-11-05	2025-11-04
Pre Amplifier	H.P.	HP8447E	2945A02715	2024-11-05	2025-11-04
Pre-Amplifier	CDSI	PAP-1G18-38	--	2024-11-05	2025-11-04
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	2024-07-29	2025-07-28
9*6*6 Anechoic	--	--	--	2024-11-05	2025-11-04
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	2024-11-05	2025-11-04
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	2024-11-05	2025-11-04
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	2024-11-05	2025-11-04
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	2024-11-05	2025-11-04
Loop Antenna	EMCO	6502	00042960	2024-11-05	2025-11-04
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	2024-11-05	2025-11-04
Power meter	Anritsu	ML2487A	6K00003613	2024-11-05	2025-11-04
Power sensor	Anritsu	MX248XD	--	2024-11-05	2025-11-04
Spectrum Analyzer	Keysight	N9010B	MY60241089	2024-11-05	2025-11-04

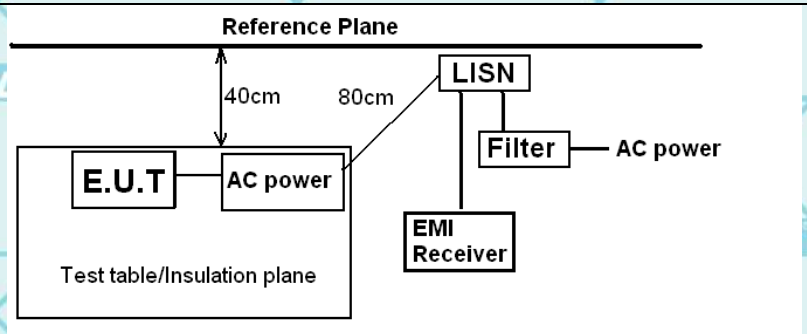
6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is “ANT1:2.24dBi”. Please refer to the attached "M5 Internal Photo" for the antenna location	

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Frequency Range:	150 kHz to 30 MHz
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto
Limits:	Frequency range (MHz) / Limit (dBuV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50
Test Setup:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence Stabilization Network* *Test table height=0.8m*
Test Mode:	Charging + transmitting with modulation
Test Procedure:	1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2014 on conducted measurement.
Test Result:	PASS

6.2.2. EUT OPERATING CONDITIONS

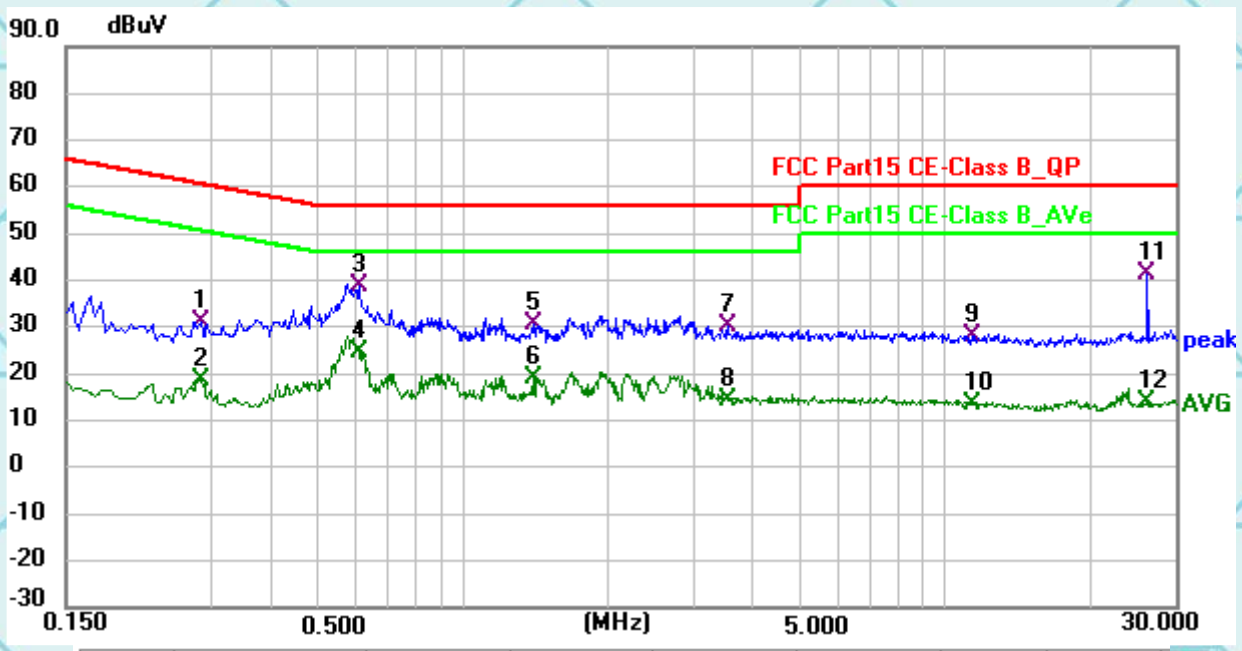
The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test data

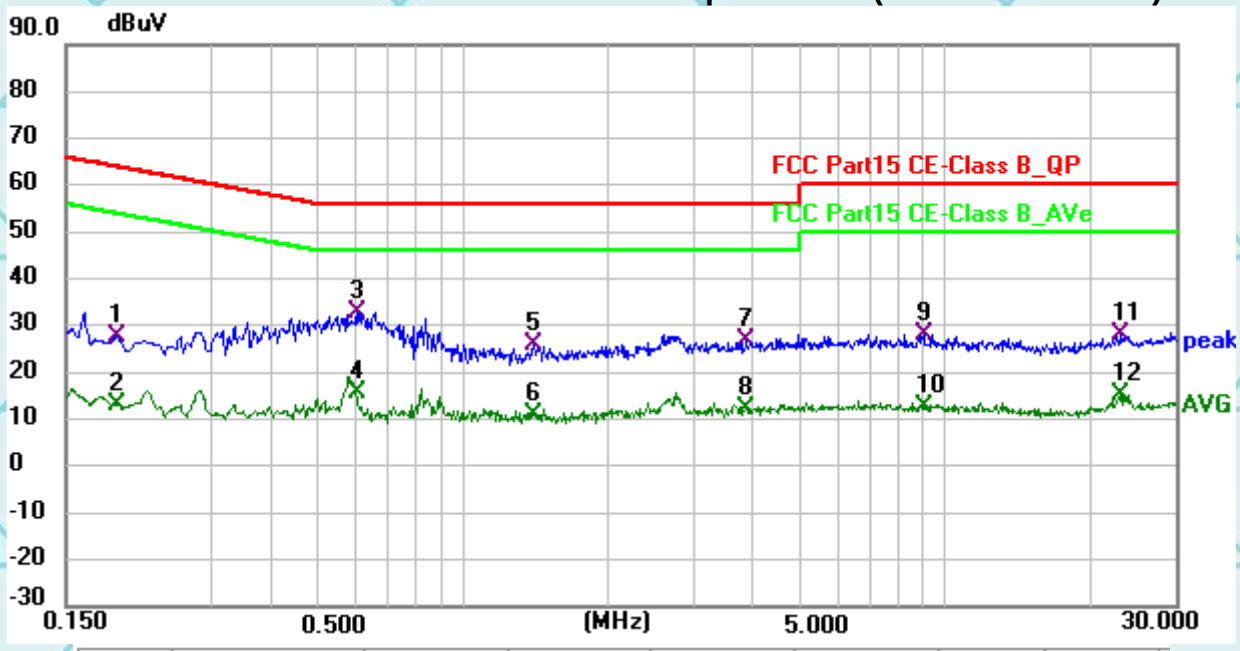
Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2850	10.23	20.64	30.87	60.67	-29.80	QP
2	0.2850	-1.94	20.64	18.70	50.67	-31.97	AVG
3 *	0.6090	18.05	20.53	38.58	56.00	-17.42	QP
4	0.6090	4.16	20.53	24.69	46.00	-21.31	AVG
5	1.4055	10.01	20.65	30.66	56.00	-25.34	QP
6	1.4055	-1.72	20.65	18.93	46.00	-27.07	AVG
7	3.5430	9.56	20.59	30.15	56.00	-25.85	QP
8	3.5430	-6.03	20.59	14.56	46.00	-31.44	AVG
9	11.3505	7.81	20.37	28.18	60.00	-31.82	QP
10	11.3505	-6.73	20.37	13.64	50.00	-36.36	AVG
11	26.2500	20.68	20.74	41.42	60.00	-18.58	QP
12	26.2500	-6.83	20.74	13.91	50.00	-36.09	AVG

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1905	7.10	20.70	27.80	64.01	-36.21	QP
2	0.1905	-7.54	20.70	13.16	54.01	-40.85	AVG
3 *	0.6000	12.23	20.52	32.75	56.00	-23.25	QP
4	0.6000	-5.00	20.52	15.52	46.00	-30.48	AVG
5	1.4010	5.12	20.65	25.77	56.00	-30.23	QP
6	1.4010	-9.71	20.65	10.94	46.00	-35.06	AVG
7	3.8715	6.15	20.59	26.74	56.00	-29.26	QP
8	3.8715	-8.27	20.59	12.32	46.00	-33.68	AVG
9	9.0239	7.73	20.47	28.20	60.00	-31.80	QP
10	9.0239	-7.86	20.47	12.61	50.00	-37.39	AVG
11	23.1494	7.44	20.47	27.91	60.00	-32.09	QP
12	23.1494	-5.24	20.47	15.23	50.00	-34.77	AVG

Note1:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak AVG =average

** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz*

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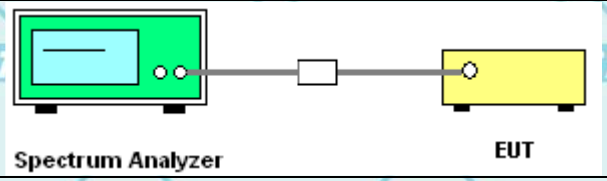
6.3. Maximum Conducted Output Power

6.3.1. Test Specification

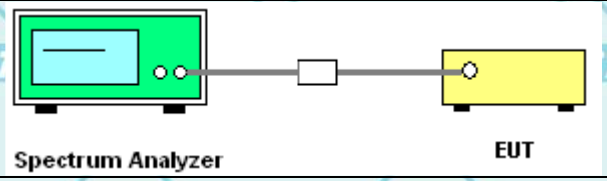
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074
Limit:	30dBm
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the conducted output power and record the results in the test report.
Test Result:	PASS

6.3.2. Test Data

Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	19.60	30	Pass
b	2437	18.25	30	Pass
b	2462	16.03	30	Pass
g	2412	20.01	30	Pass
g	2437	20.22	30	Pass
g	2462	17.61	30	Pass
n20	2412	16.48	30	Pass
n20	2437	15.69	30	Pass
n20	2462	13.63	30	Pass
n40	2422	14.01	30	Pass
n40	2437	20.15	30	Pass
n40	2452	20.91	30	Pass
ax20	2412	**20.97**	30	Pass
ax20	2437	20.10	30	Pass
ax20	2462	17.98	30	Pass
ax40	2422	18.39	30	Pass
ax40	2437	18.27	30	Pass
ax40	2452	19.19	30	Pass

6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074
Limit:	>500kHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test data(worst)

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	7.76	0.5	Pass
b	2437	9.59	0.5	Pass
b	2462	10.04	0.5	Pass
g	2412	15.66	0.5	Pass
g	2437	14.33	0.5	Pass
g	2462	16.43	0.5	Pass
n20	2412	15.11	0.5	Pass
n20	2437	15.07	0.5	Pass
n20	2462	15.04	0.5	Pass
n40	2422	36.46	0.5	Pass
n40	2437	29.77	0.5	Pass
n40	2452	28.17	0.5	Pass
ax20	2412	16.40	0.5	Pass
ax20	2437	15.95	0.5	Pass
ax20	2462	16.78	0.5	Pass
ax40	2422	38.02	0.5	Pass
ax40	2437	33.10	0.5	Pass
ax40	2452	31.75	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

-6dB Bandwidth NVNT ax20 2412MHz Ant1

-6dB Bandwidth NVNT ax20 2437MHz Ant1

-6dB Bandwidth NVNT ax20 2462MHz Ant1

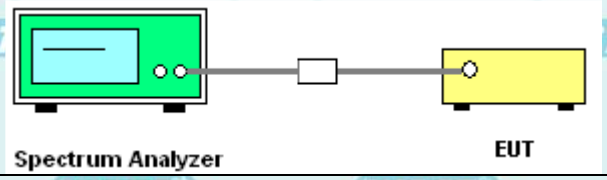
-6dB Bandwidth NVNT ax40 2422MHz Ant1

-6dB Bandwidth NVNT ax40 2437MHz Ant1

-6dB Bandwidth NVNT ax40 2452MHz Ant1

6.5. Power Spectral Density

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.
Test Result:	PASS

6.5.2. Test data(worst)

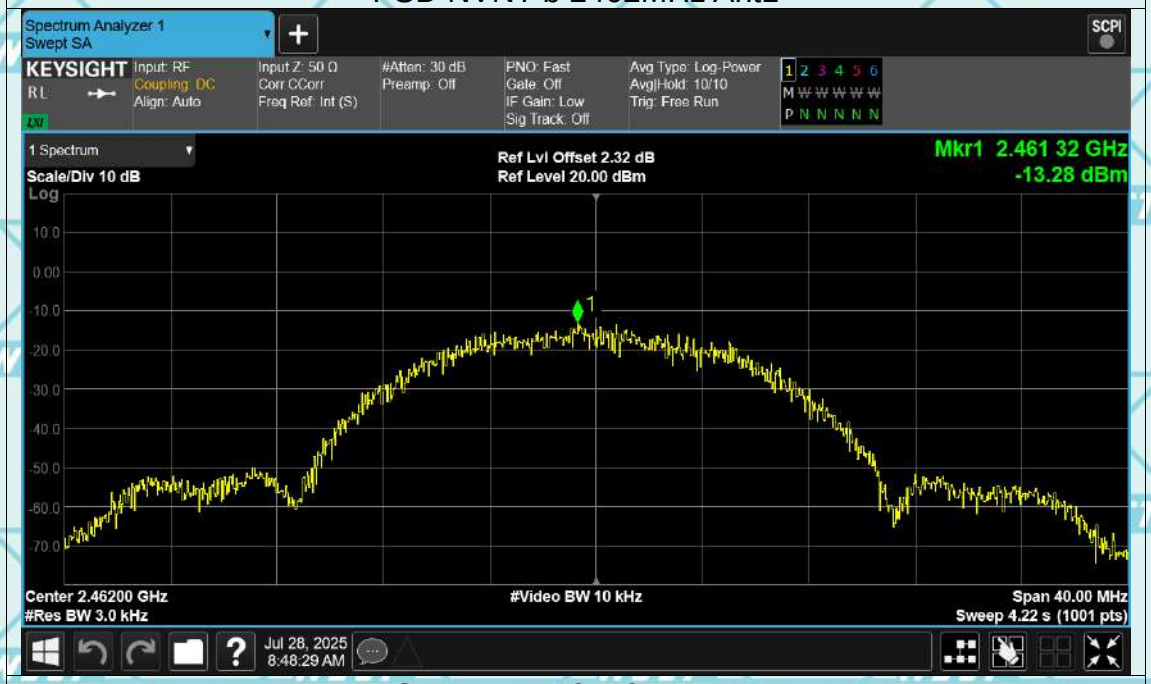
Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
b	2412	-9.16	8	Pass
b	2437	-11.41	8	Pass
b	2462	-13.28	8	Pass
g	2412	-9.71	8	Pass
g	2437	-10.71	8	Pass
g	2462	-12.29	8	Pass
n20	2412	-13.65	8	Pass
n20	2437	-15.13	8	Pass
n20	2462	-17.77	8	Pass
n40	2422	-14.79	8	Pass
n40	2437	-12.03	8	Pass
n40	2452	-11.43	8	Pass
ax20	2412	-11.52	8	Pass
ax20	2437	-11.04	8	Pass
ax20	2462	-14.53	8	Pass
ax40	2422	-15.58	8	Pass
ax40	2437	-13.3	8	Pass
ax40	2452	-12.49	8	Pass

Test Graphs

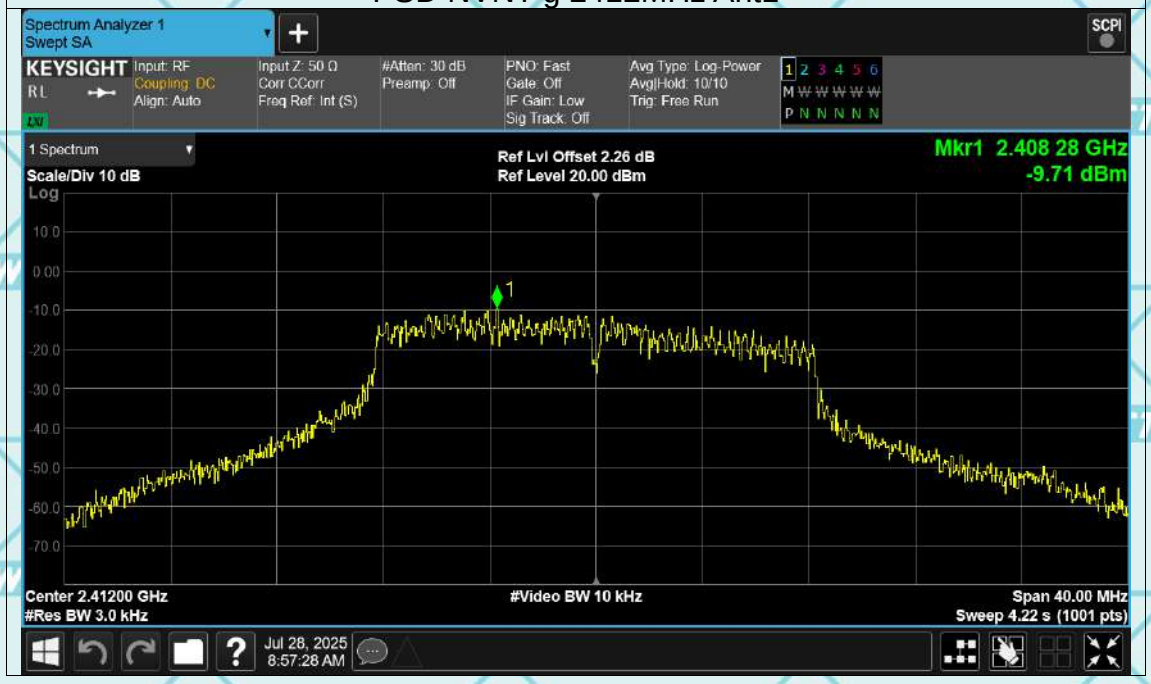
PSD NVNT b 2412MHz Ant1

PSD NVNT b 2437MHz Ant1

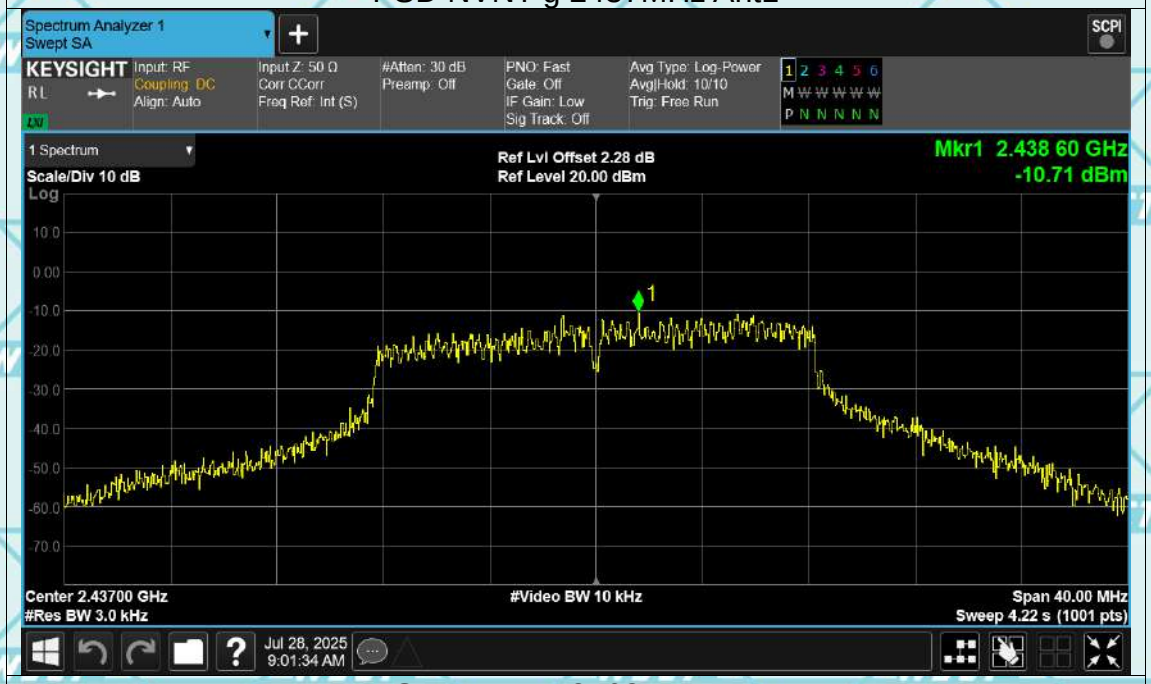
PSD NVNT b 2462MHz Ant1



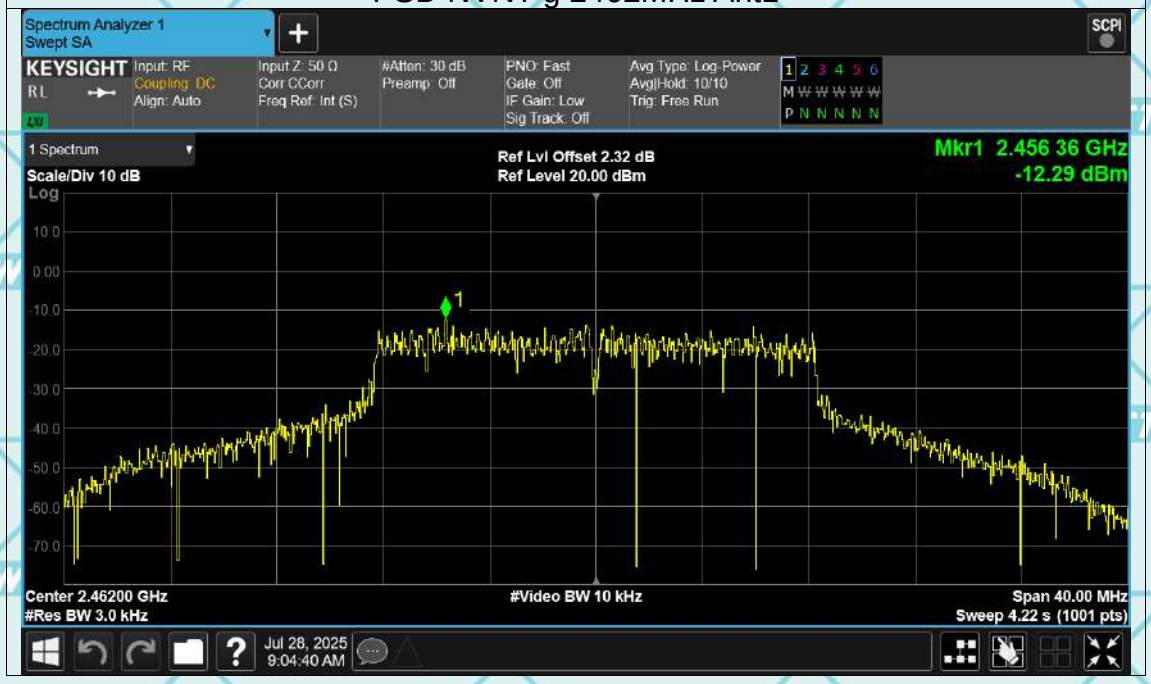
PSD NVNT g 2412MHz Ant1



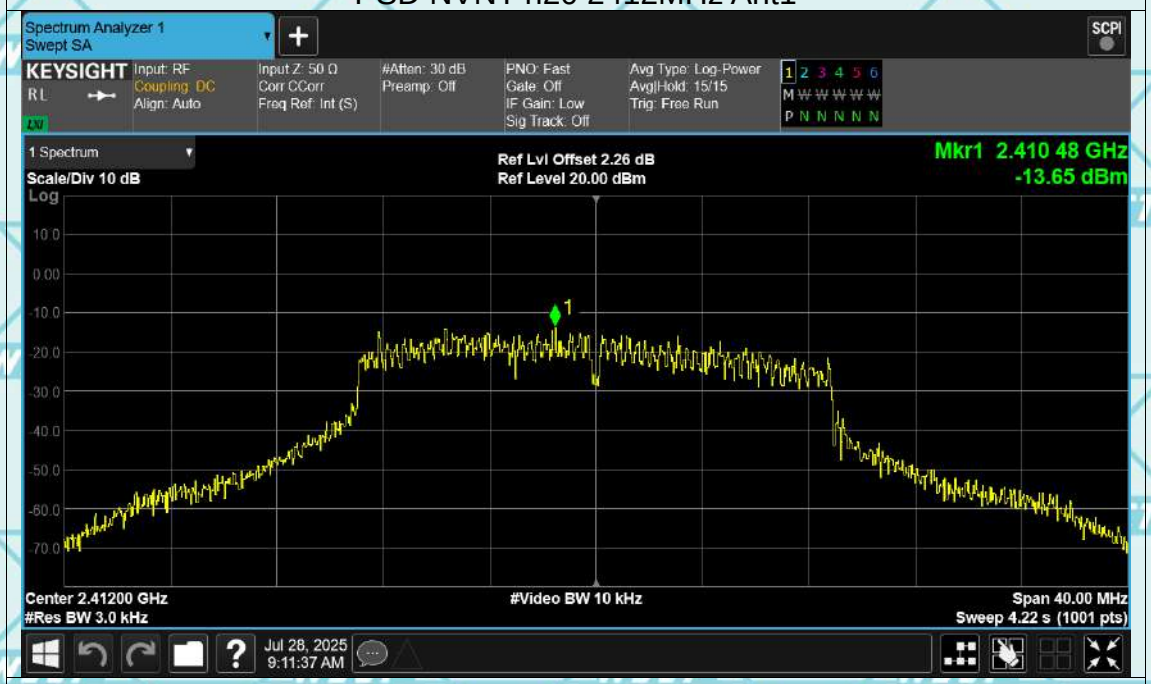
PSD NVNT g 2437MHz Ant1



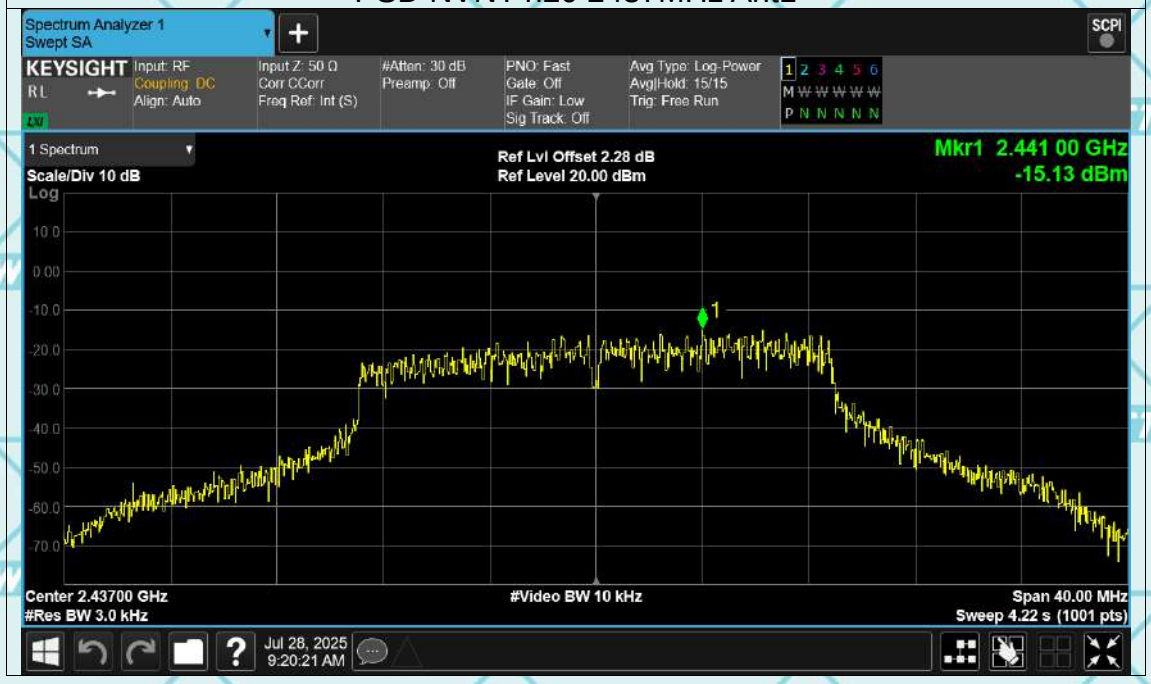
PSD NVNT g 2462MHz Ant1



PSD NVNT n20 2412MHz Ant1

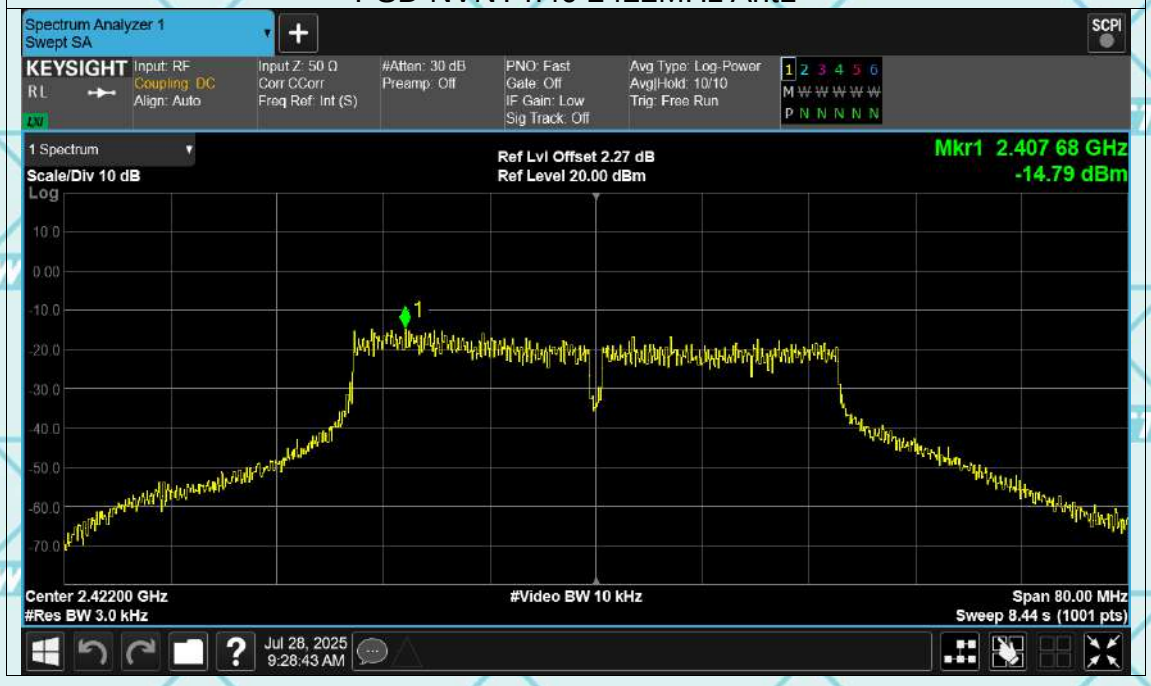


PSD NVNT n20 2437MHz Ant1

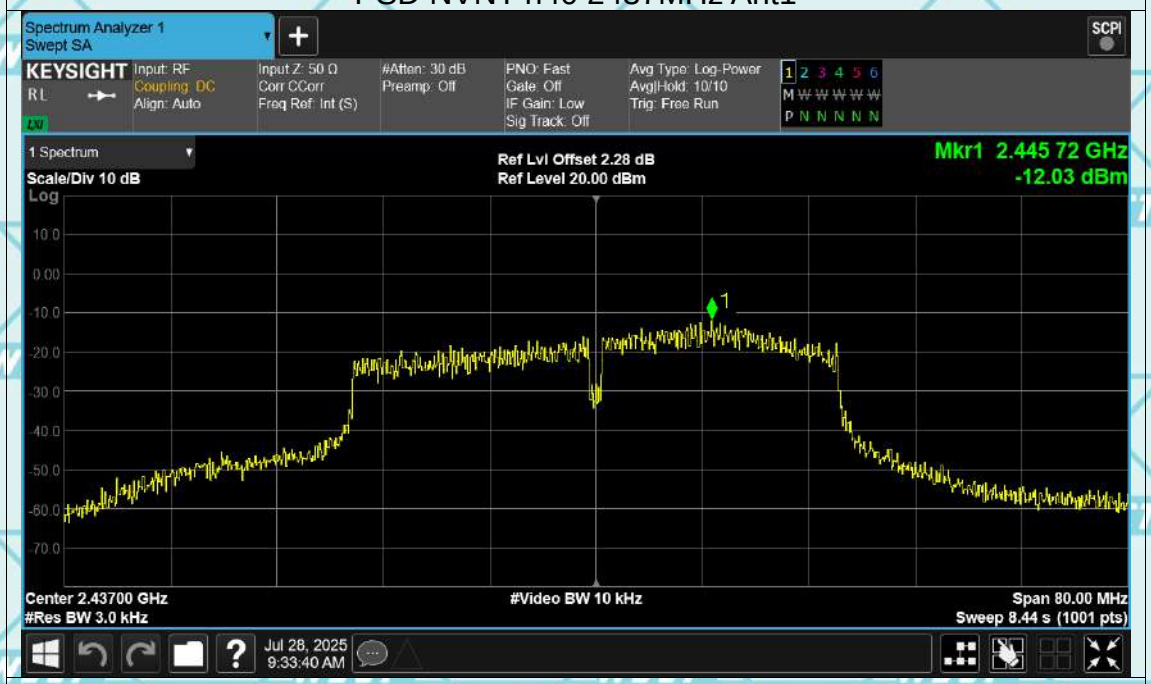


PSD NVNT n20 2462MHz Ant1

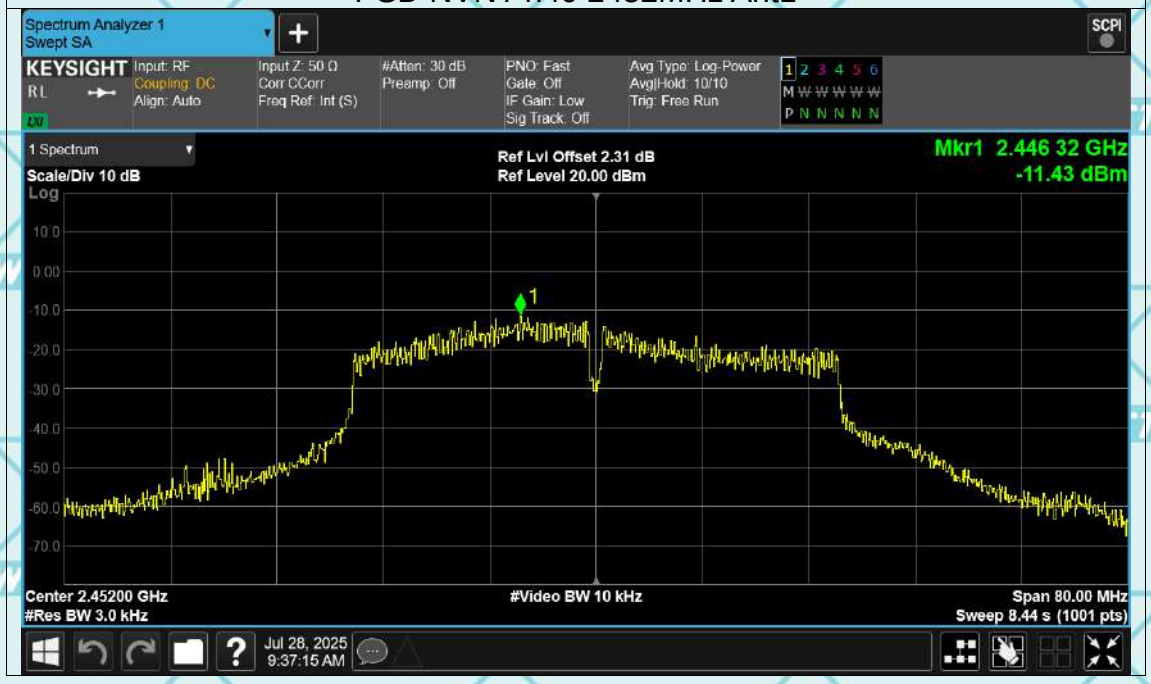
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



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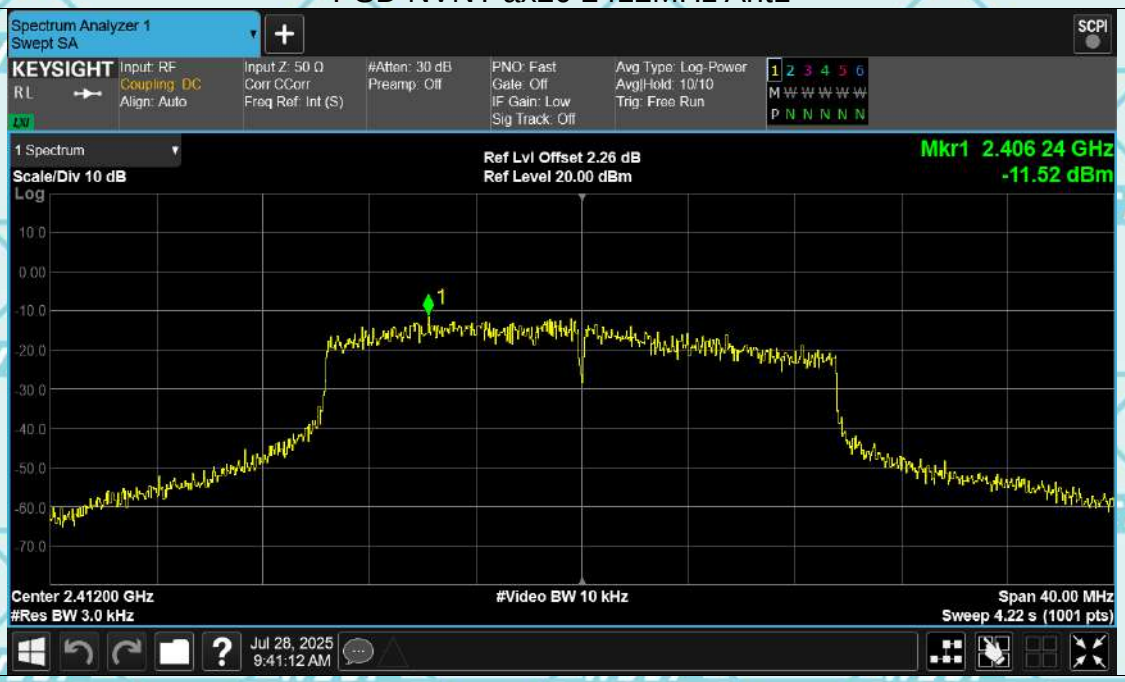
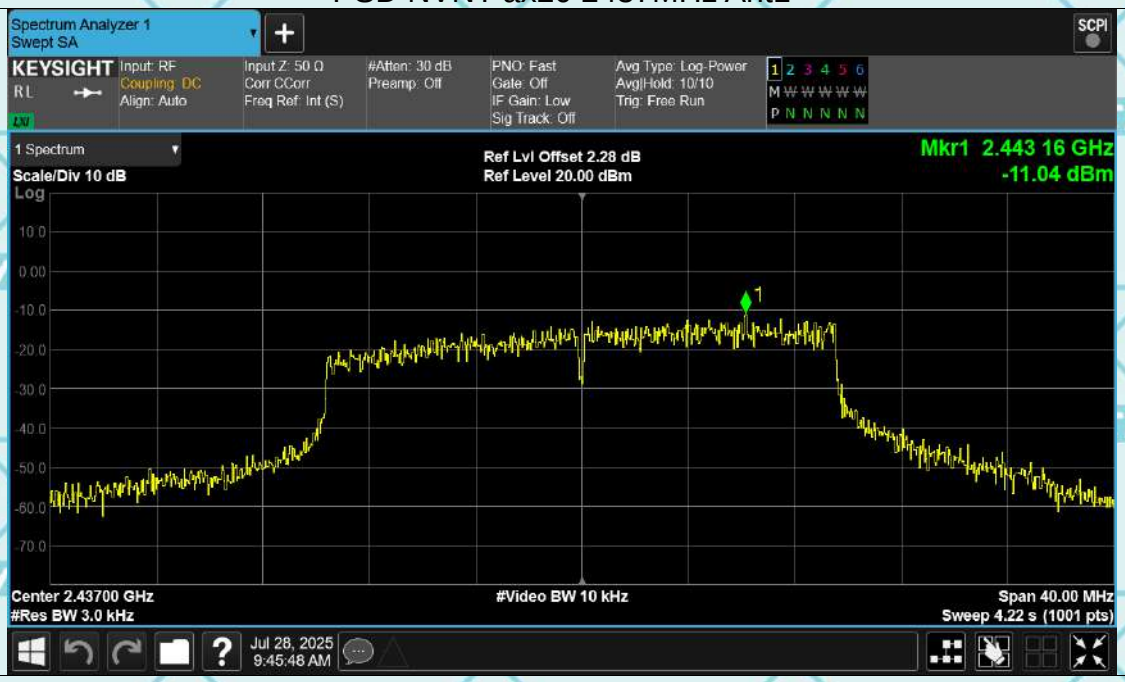
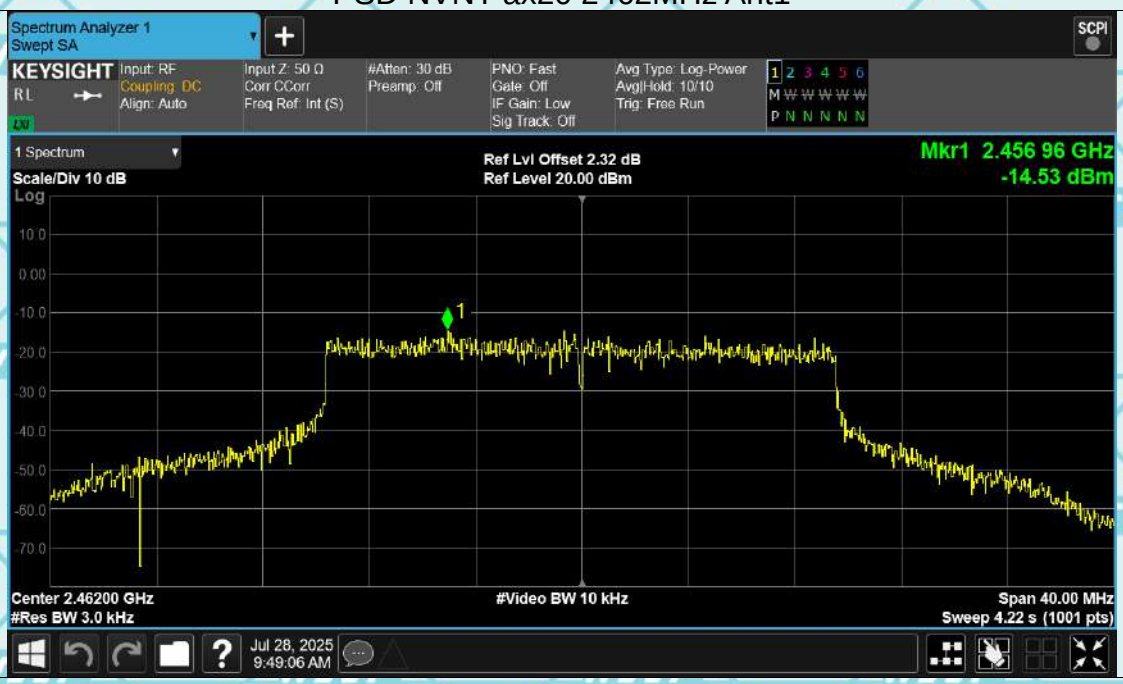


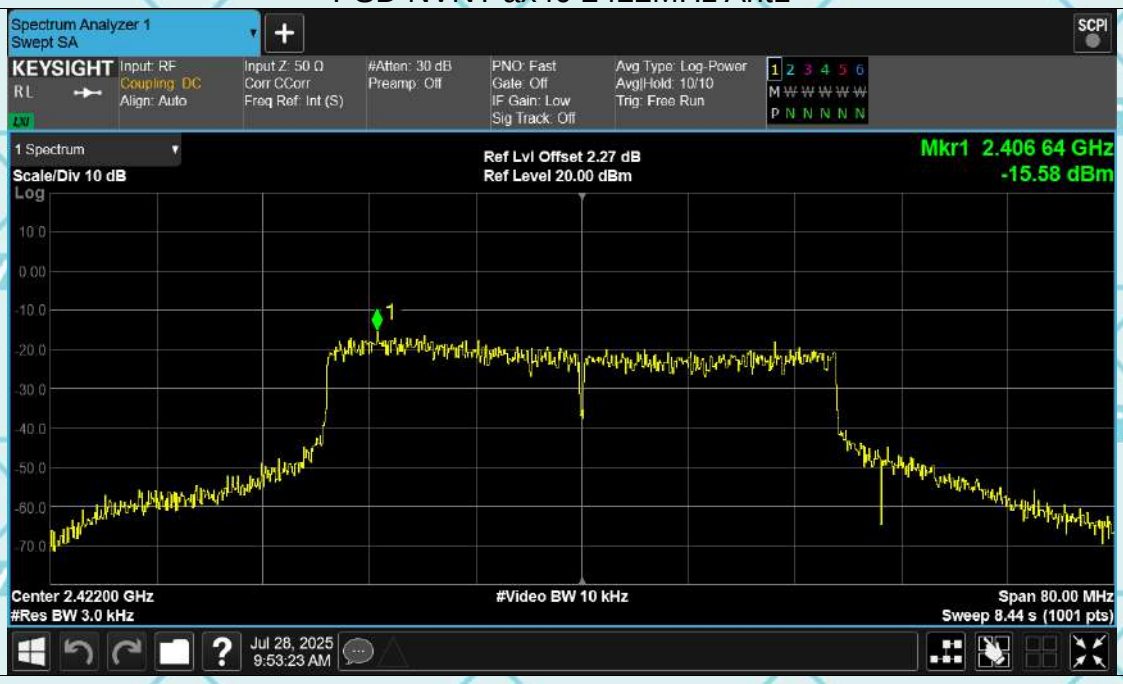
PSD NVNT ax20 2437MHz Ant1



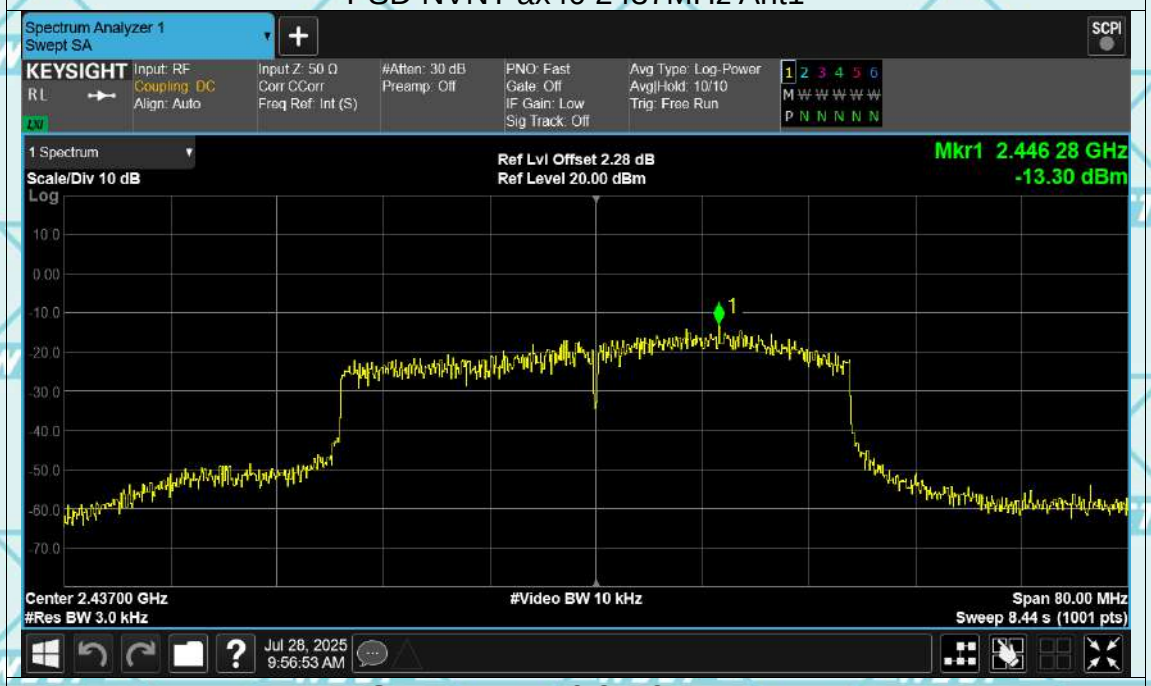
PSD NVNT ax20 2462MHz Ant1



PSD NVNT ax40 2422MHz Ant1



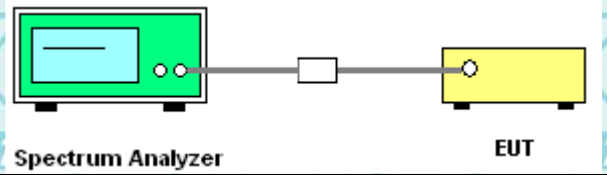
PSD NVNT ax40 2437MHz Ant1



PSD NVNT ax40 2452MHz Ant1

6.6. Conducted Band Edge and Spurious Emission Measurement

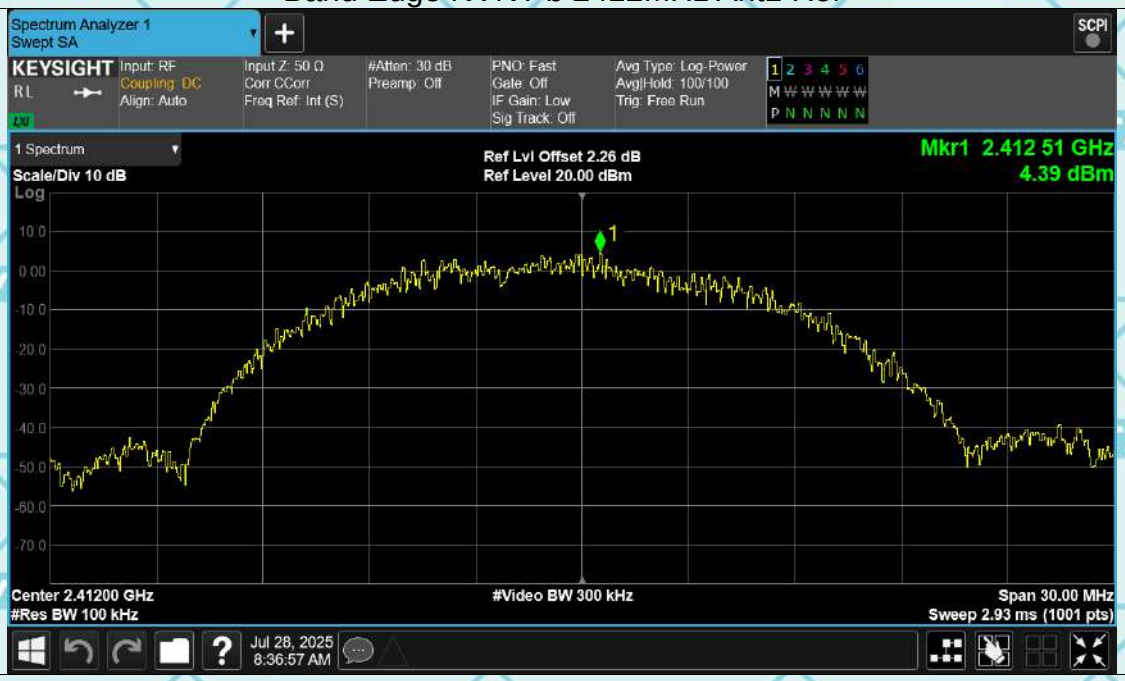
6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

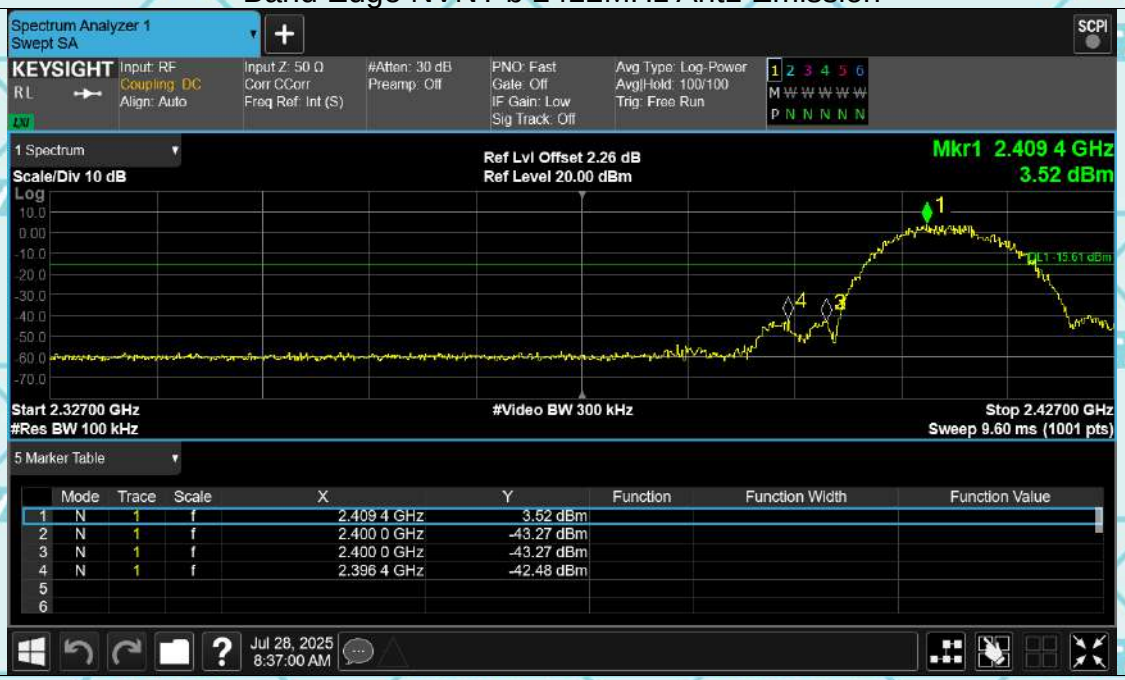
Test Data

Band Edge

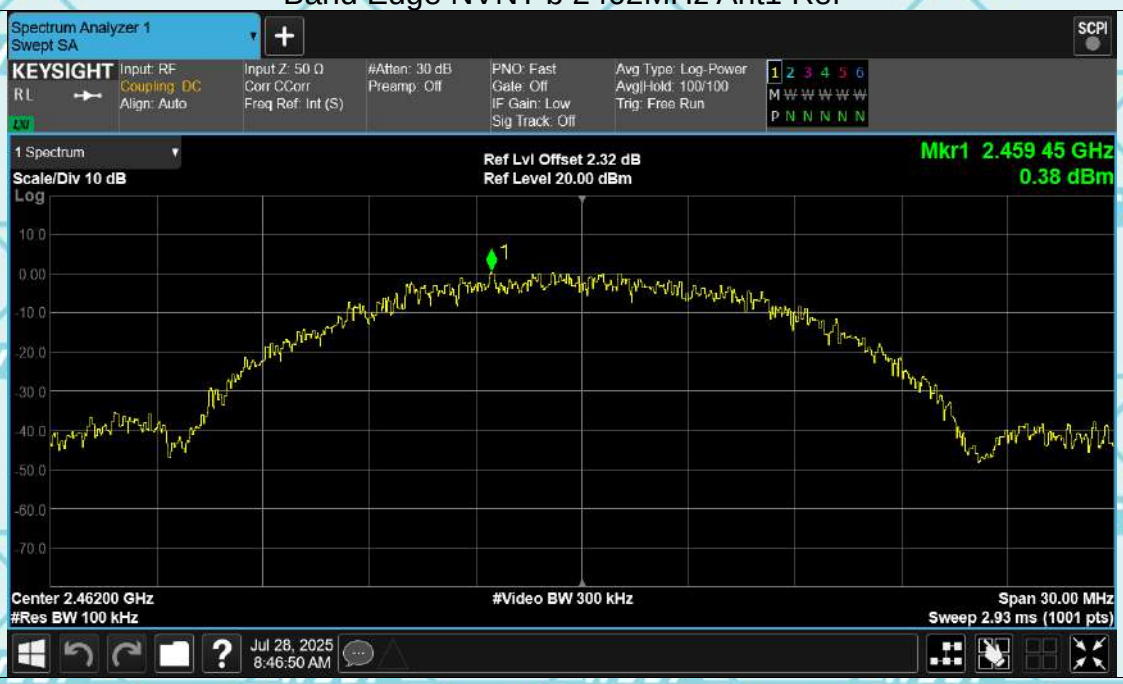
Test Graphs
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref

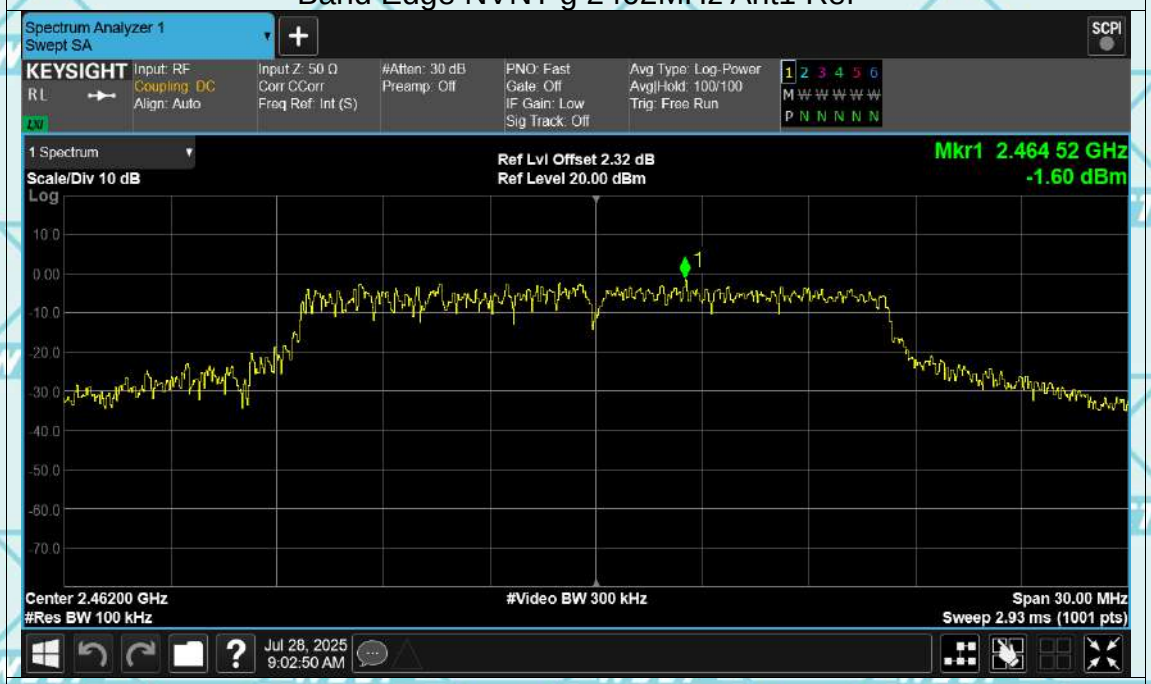


Band Edge NVNT b 2462MHz Ant1 Emission

Band Edge NVNT g 2412MHz Ant1 Ref

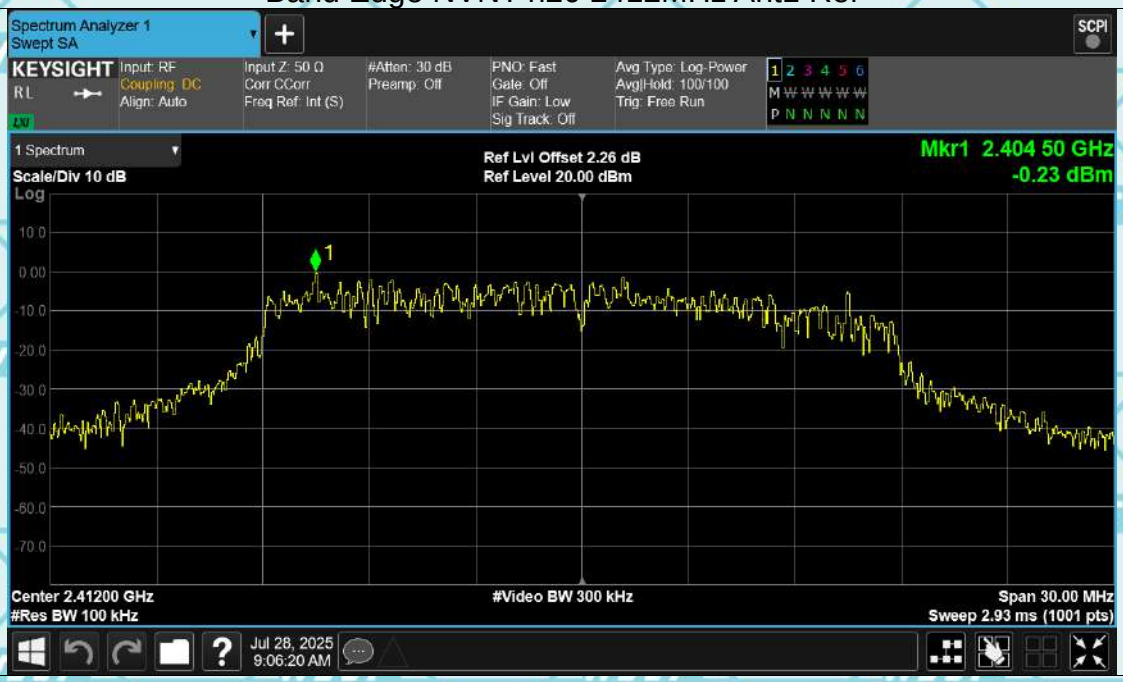
Band Edge NVNT g 2412MHz Ant1 Emission

Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission

Band Edge NVNT n20 2412MHz Ant1 Ref

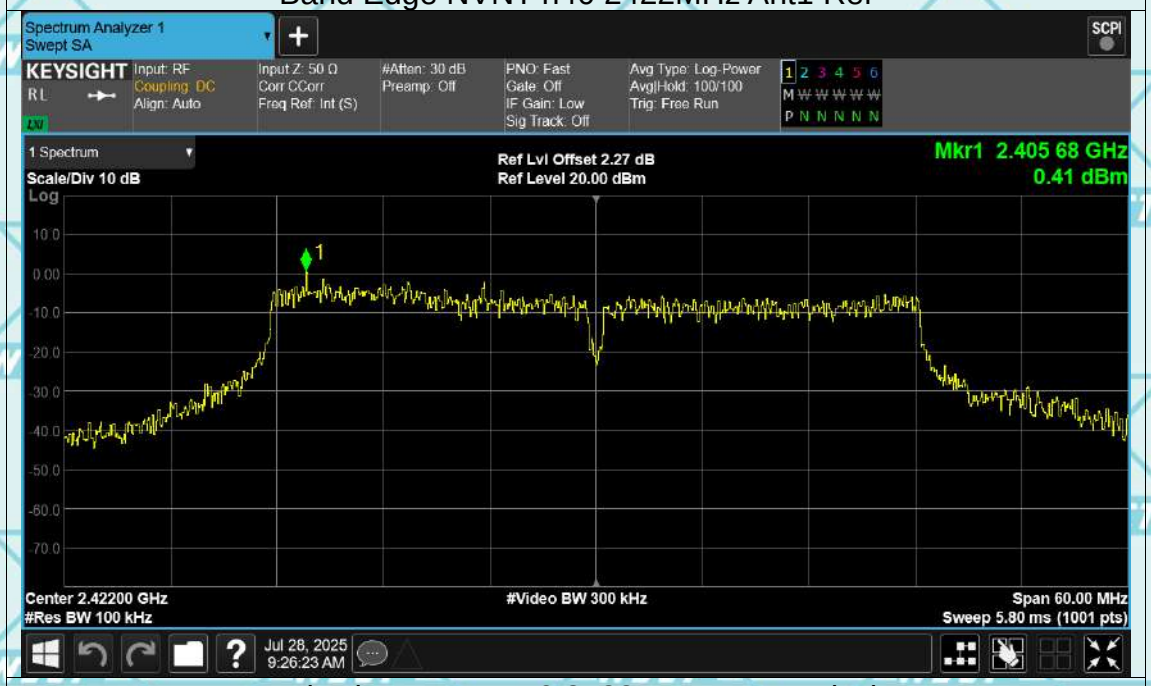


Band Edge NVNT n20 2412MHz Ant1 Emission

Band Edge NVNT n20 2462MHz Ant1 Ref

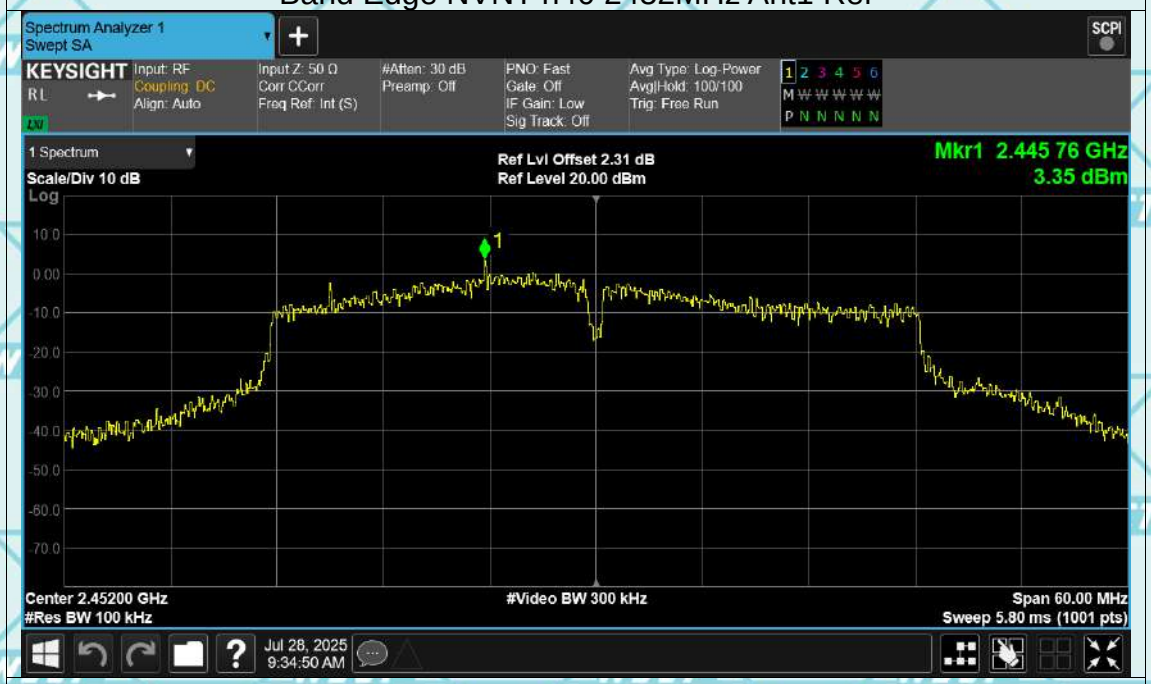
Band Edge NVNT n20 2462MHz Ant1 Emission

Band Edge NVNT n40 2422MHz Ant1 Ref



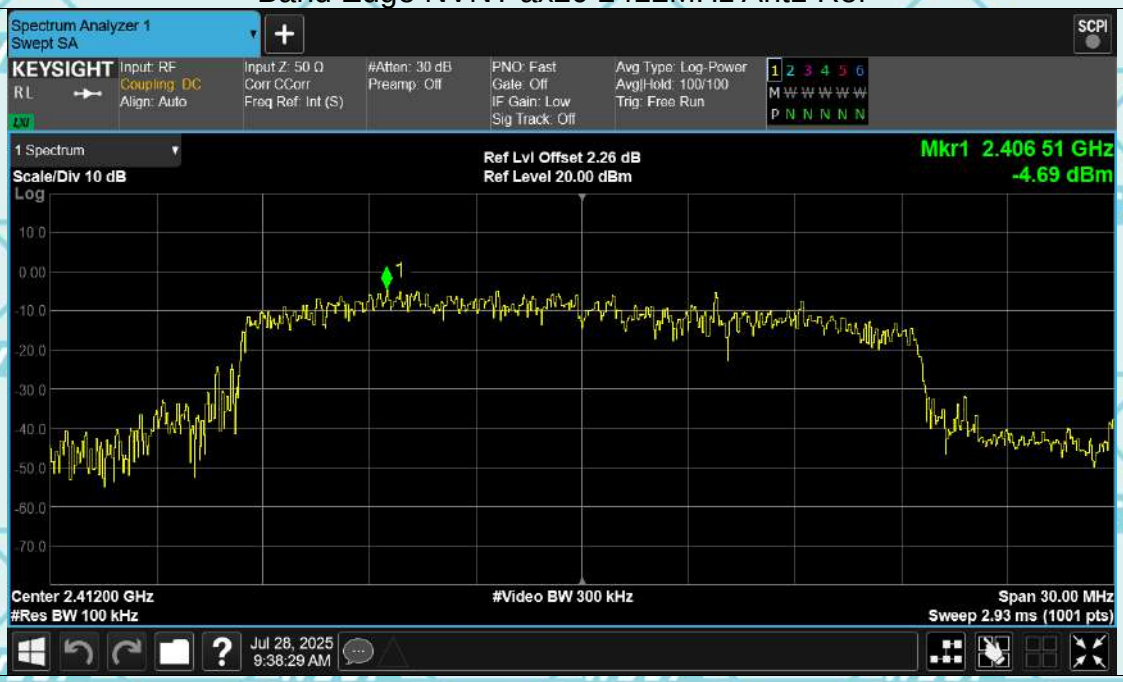
Band Edge NVNT n40 2422MHz Ant1 Emission

Band Edge NVNT n40 2452MHz Ant1 Ref



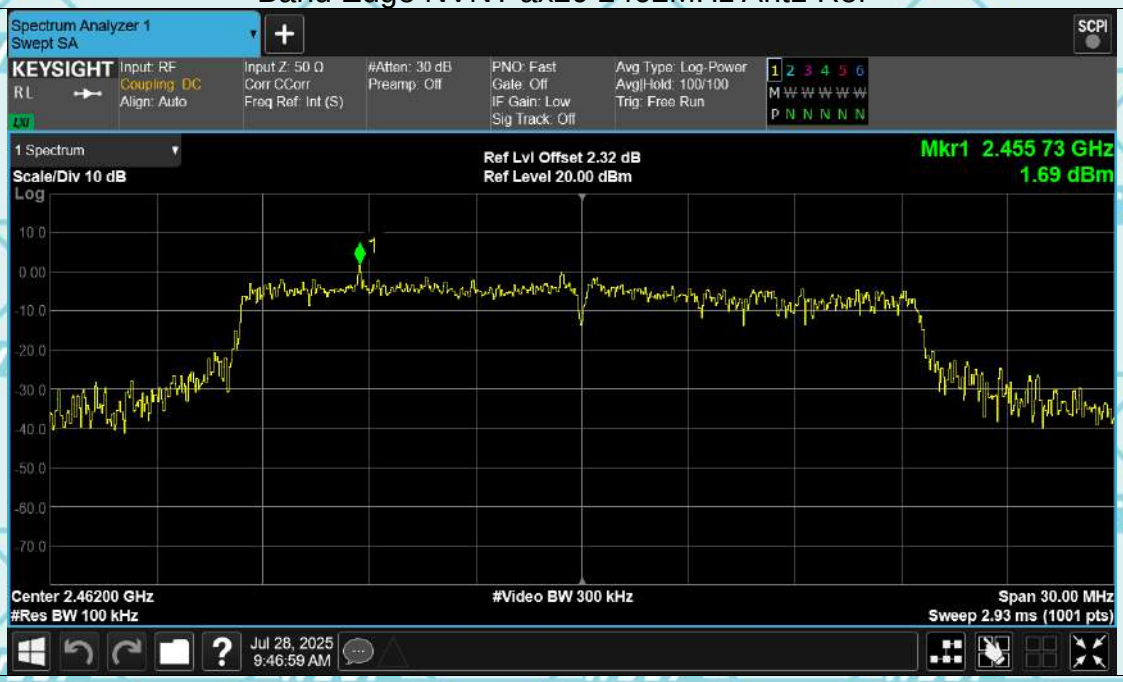
Band Edge NVNT n40 2452MHz Ant1 Emission

Band Edge NVNT ax20 2412MHz Ant1 Ref



Band Edge NVNT ax20 2412MHz Ant1 Emission

Band Edge NVNT ax20 2462MHz Ant1 Ref



Band Edge NVNT ax20 2462MHz Ant1 Emission

Band Edge NVNT ax40 2422MHz Ant1 Ref

Band Edge NVNT ax40 2422MHz Ant1 Emission

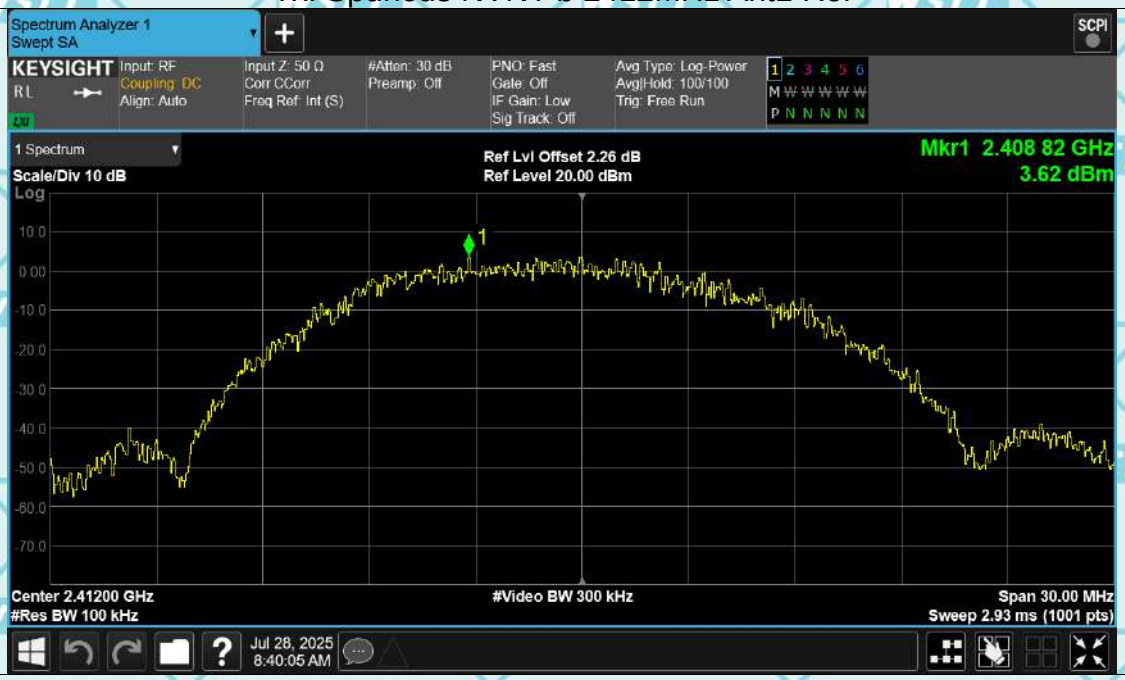
Band Edge NVNT ax40 2452MHz Ant1 Ref

Band Edge NVNT ax40 2452MHz Ant1 Emission

Conducted RF Spurious Emission

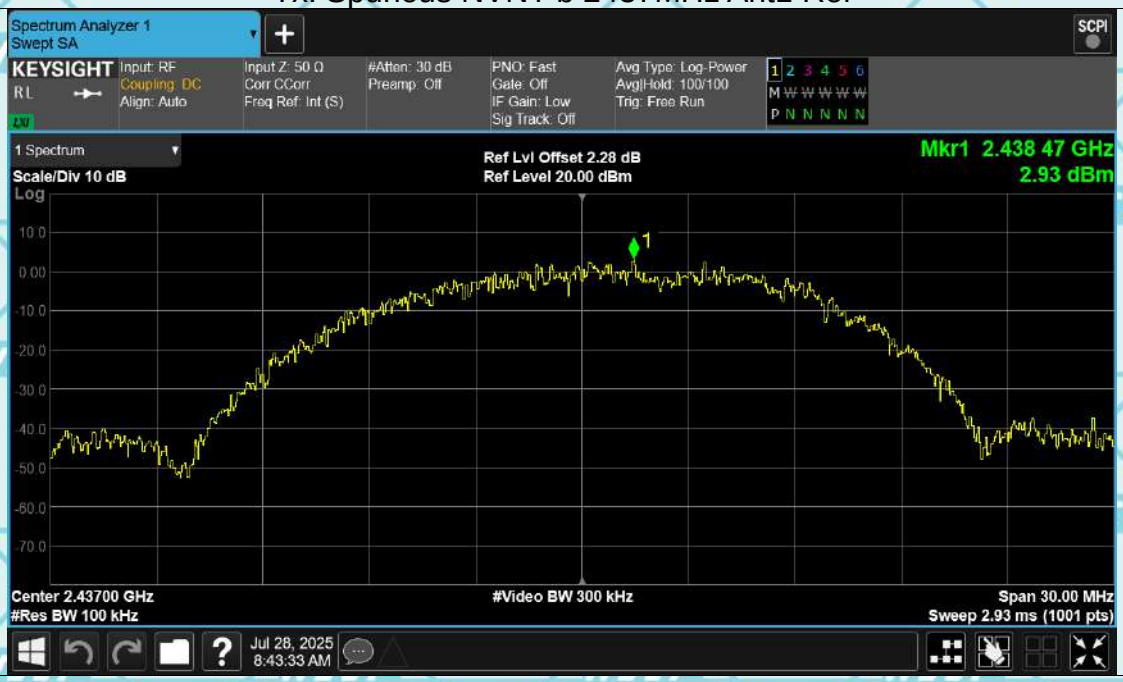
Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



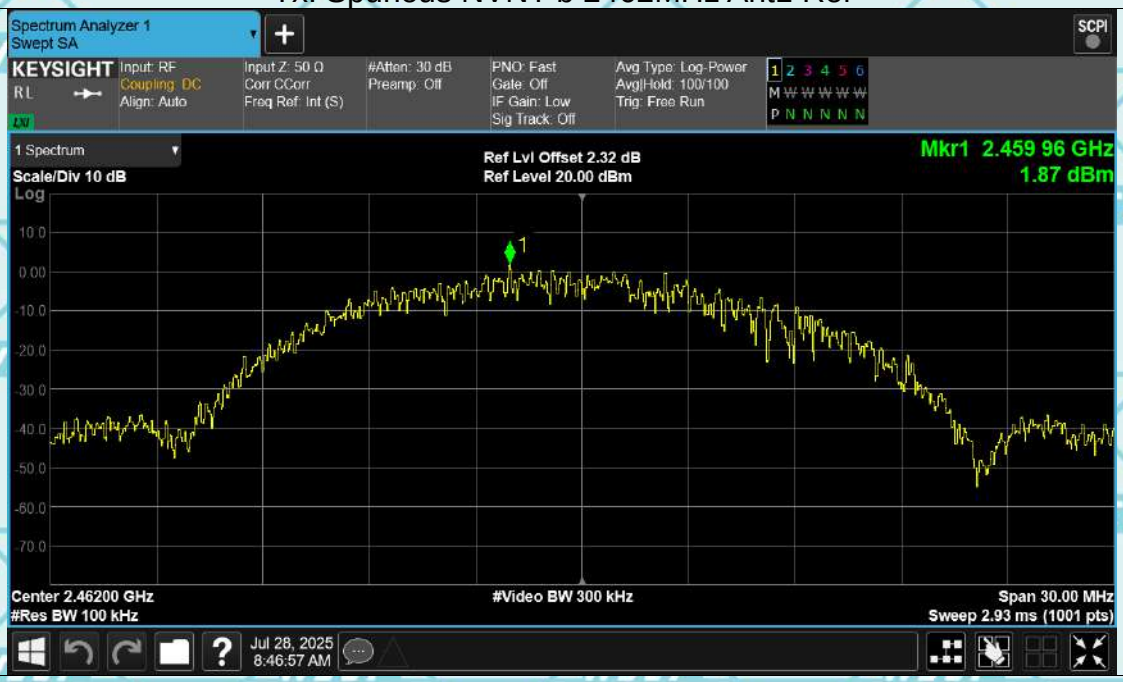
Tx. Spurious NVNT b 2412MHz Ant1 Emission

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

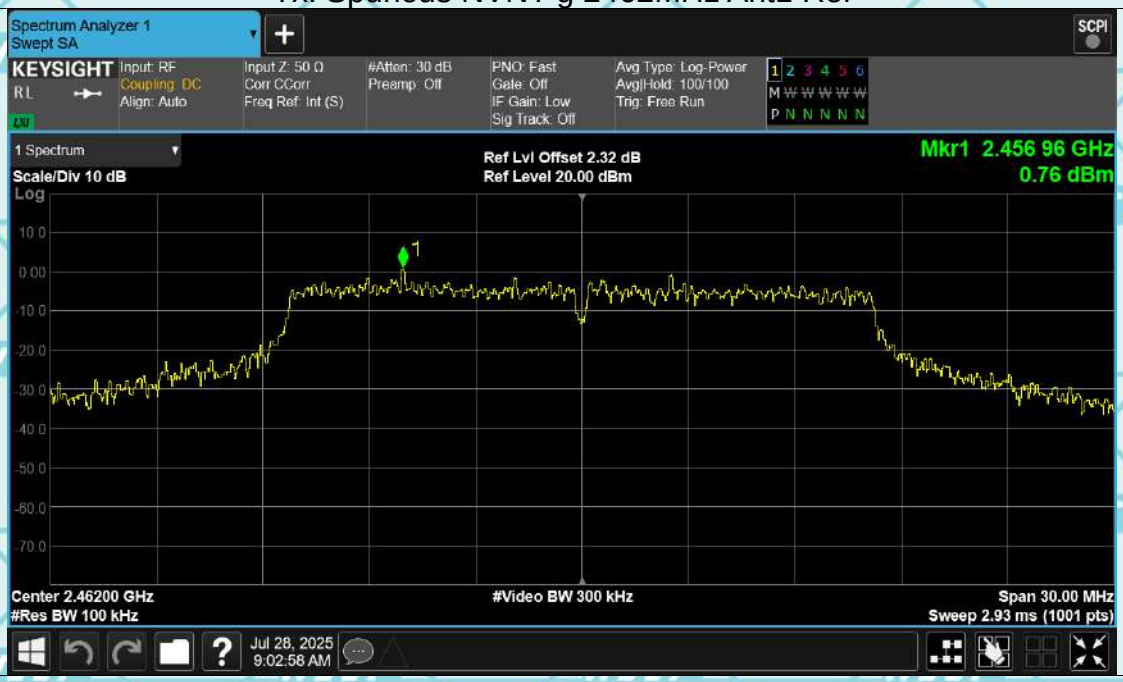
Tx. Spurious NVNT g 2412MHz Ant1 Ref

Tx. Spurious NVNT g 2412MHz Ant1 Emission

Tx. Spurious NVNT g 2437MHz Ant1 Ref

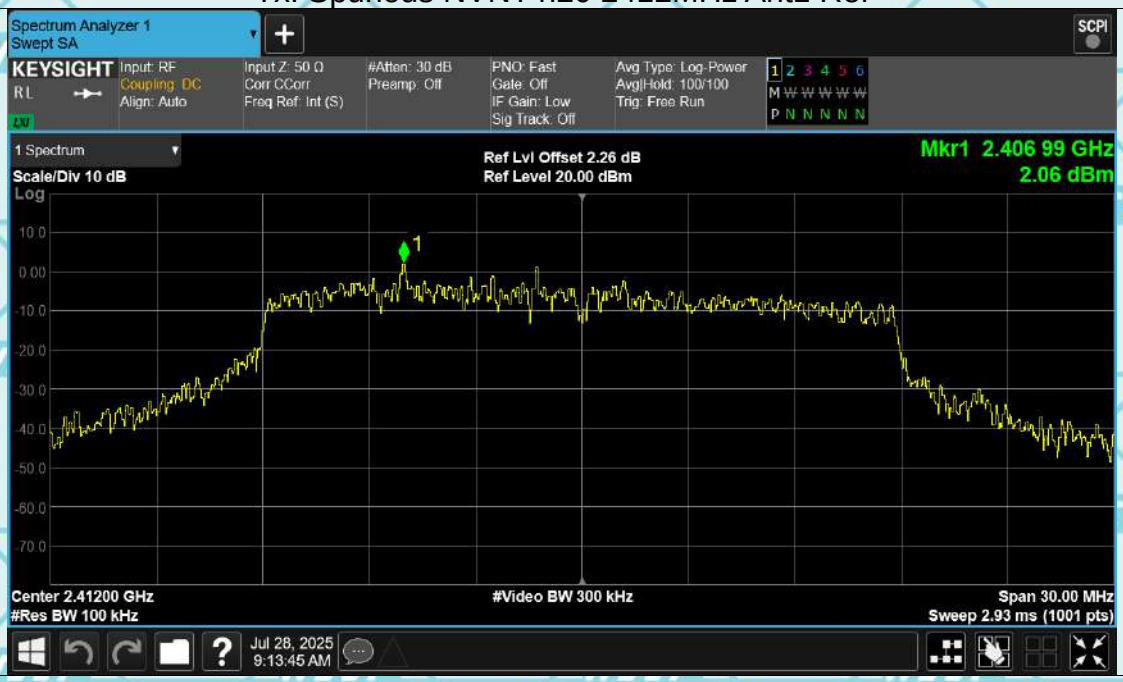
Tx. Spurious NVNT g 2437MHz Ant1 Emission

Tx. Spurious NVNT g 2462MHz Ant1 Ref



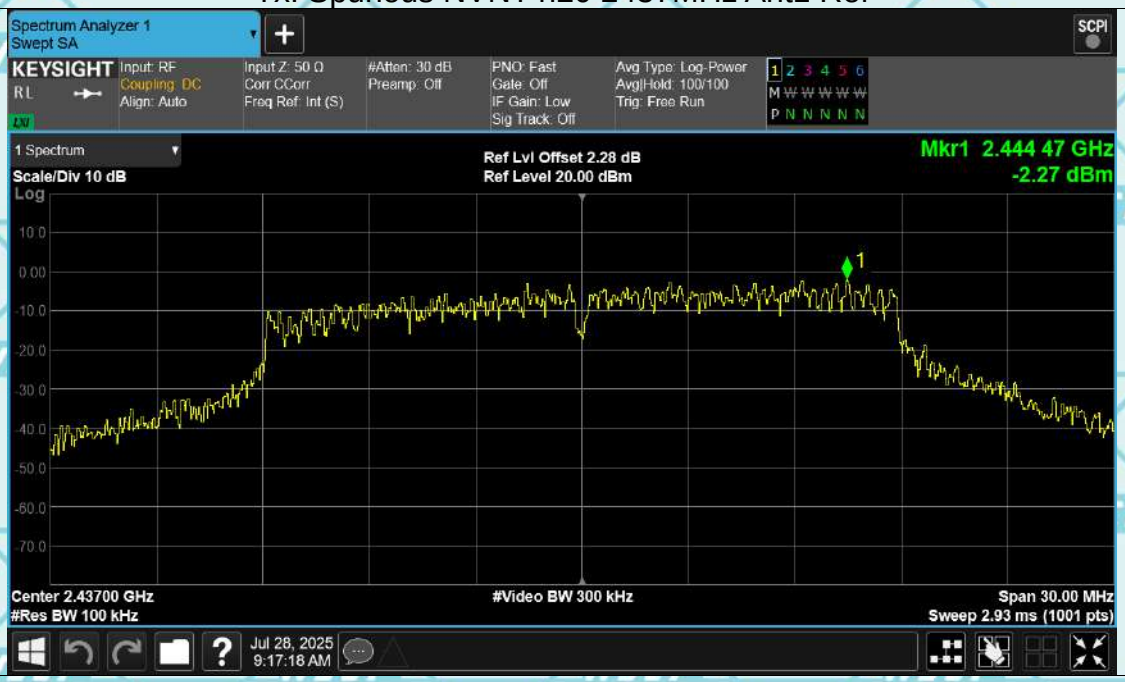
Tx. Spurious NVNT g 2462MHz Ant1 Emission

Tx. Spurious NVNT n20 2412MHz Ant1 Ref



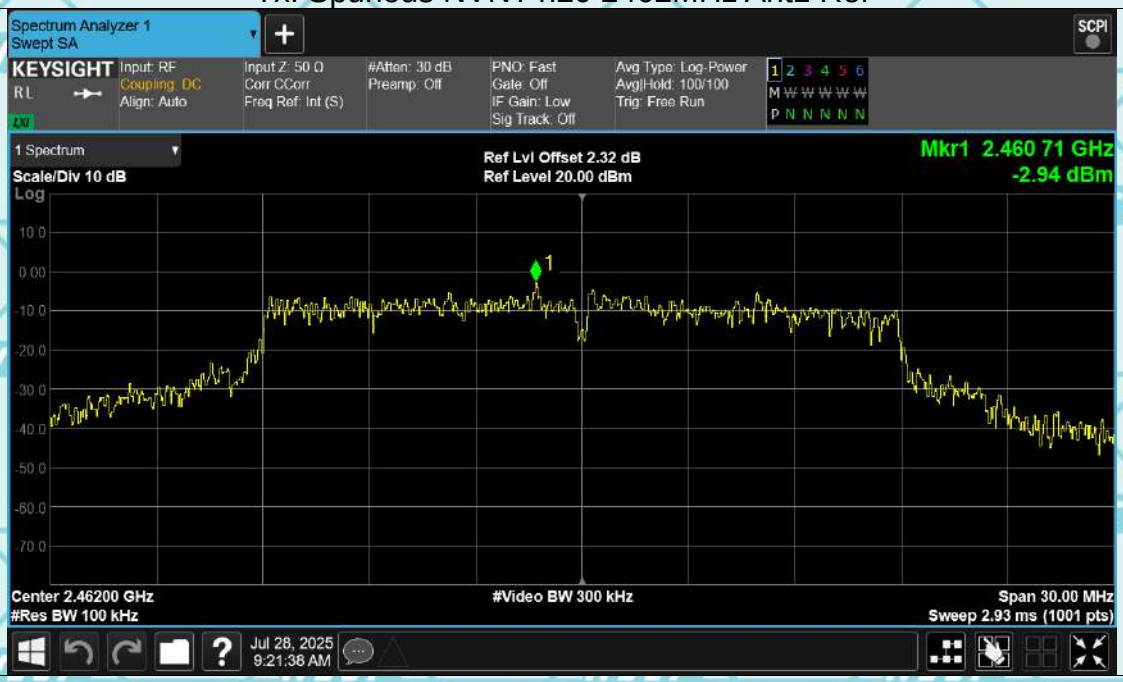
Tx. Spurious NVNT n20 2412MHz Ant1 Emission

Tx. Spurious NVNT n20 2437MHz Ant1 Ref



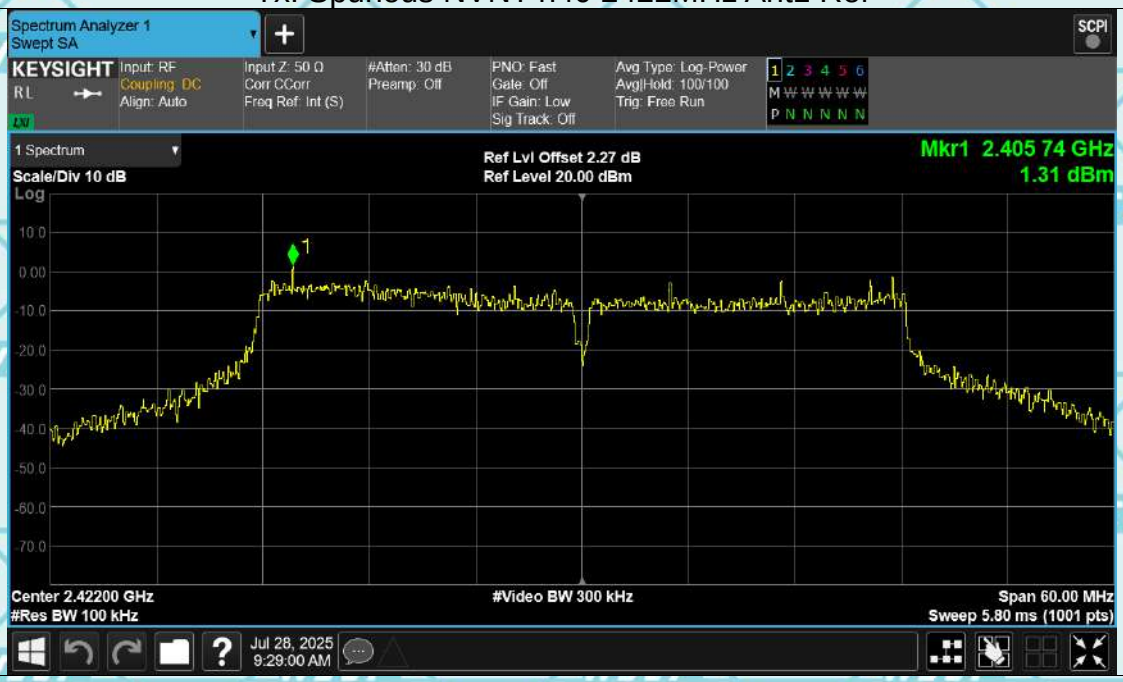
Tx. Spurious NVNT n20 2437MHz Ant1 Emission

Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

Tx. Spurious NVNT n40 2422MHz Ant1 Ref

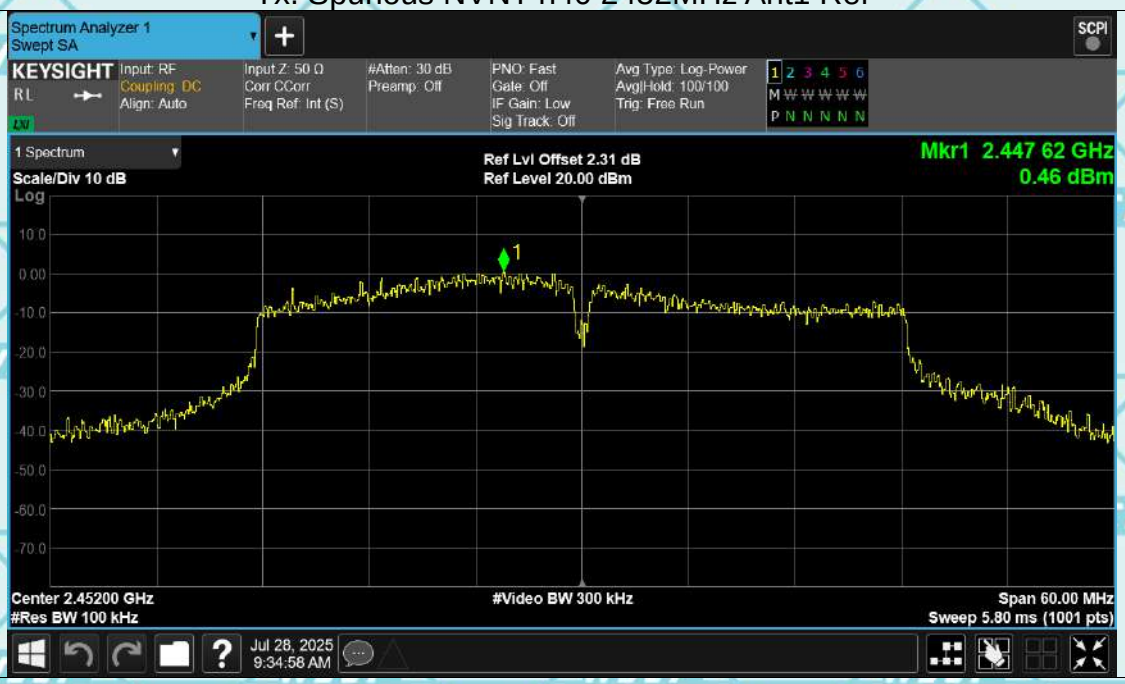


Tx. Spurious NVNT n40 2422MHz Ant1 Emission

Tx. Spurious NVNT n40 2437MHz Ant1 Ref

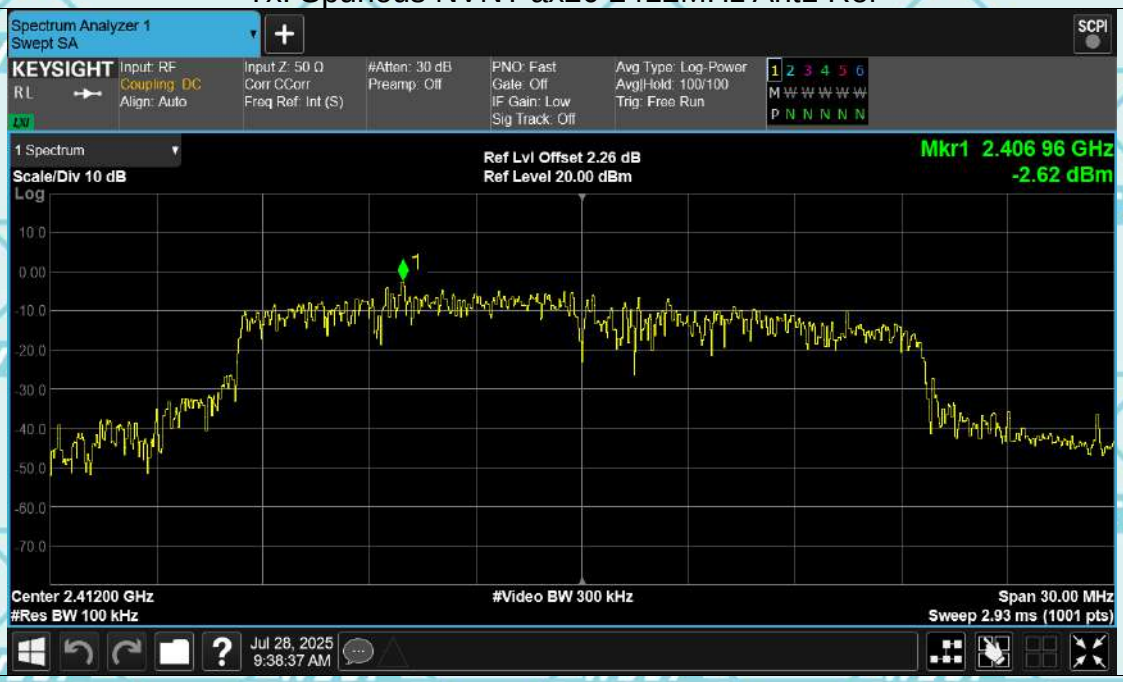
Tx. Spurious NVNT n40 2437MHz Ant1 Emission

Tx. Spurious NVNT n40 2452MHz Ant1 Ref



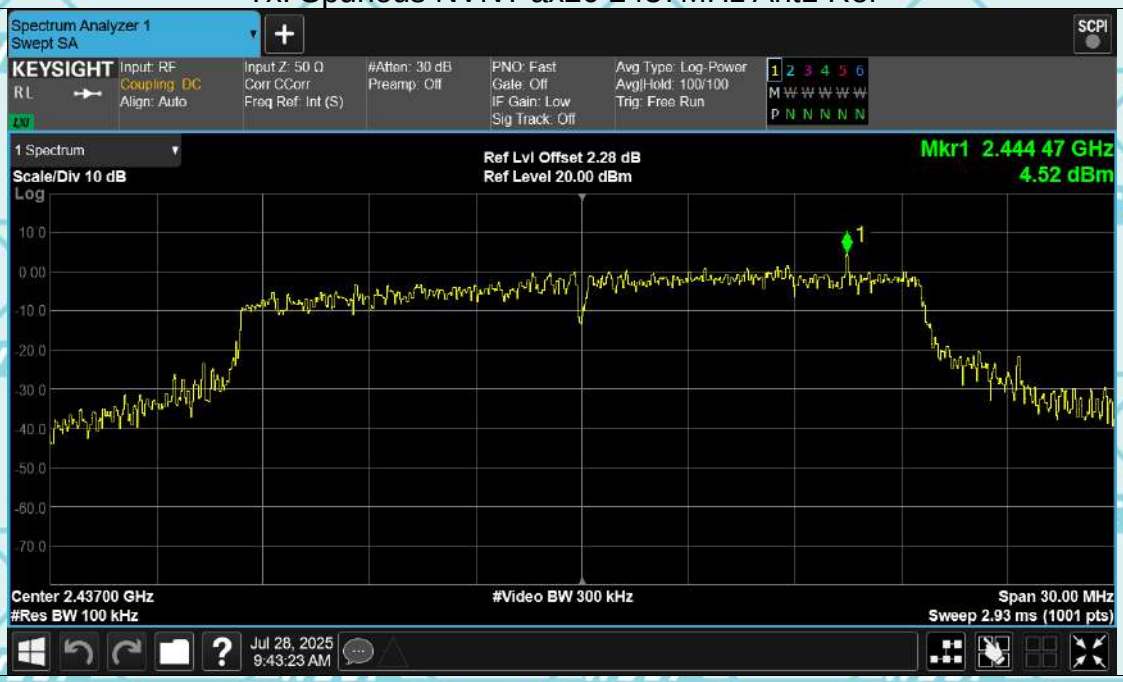
Tx. Spurious NVNT n40 2452MHz Ant1 Emission

Tx. Spurious NVNT ax20 2412MHz Ant1 Ref



Tx. Spurious NVNT ax20 2412MHz Ant1 Emission

Tx. Spurious NVNT ax20 2437MHz Ant1 Ref



Tx. Spurious NVNT ax20 2437MHz Ant1 Emission

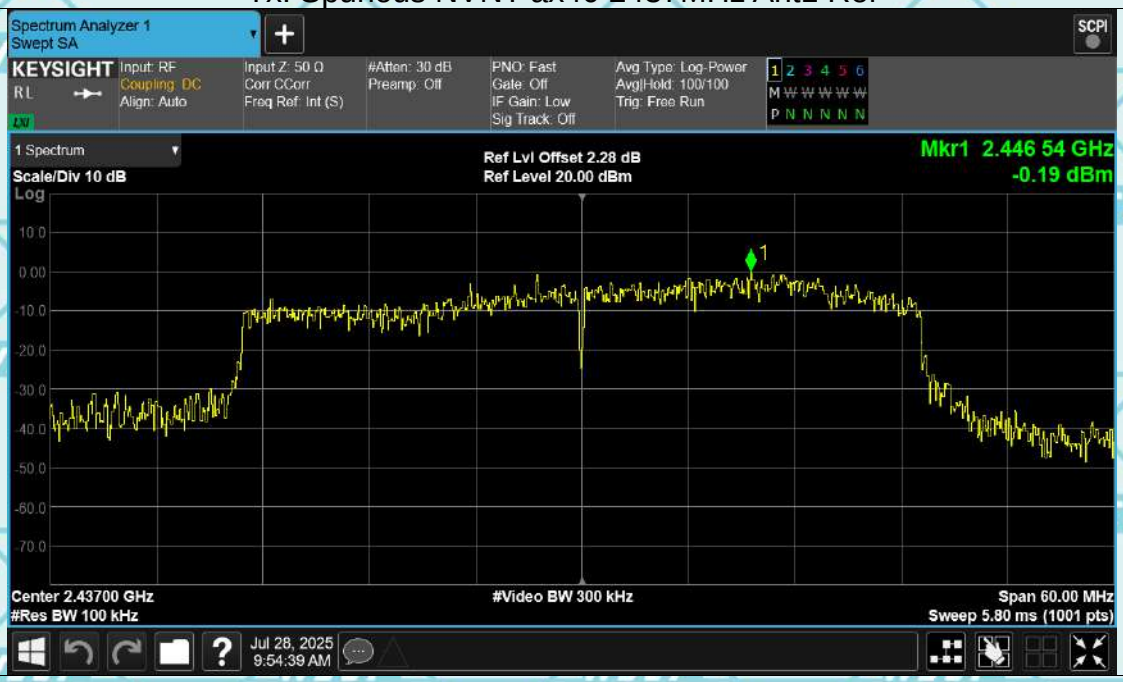
Tx. Spurious NVNT ax20 2462MHz Ant1 Ref

Tx. Spurious NVNT ax20 2462MHz Ant1 Emission

Tx. Spurious NVNT ax40 2422MHz Ant1 Ref

Tx. Spurious NVNT ax40 2422MHz Ant1 Emission

Tx. Spurious NVNT ax40 2437MHz Ant1 Ref



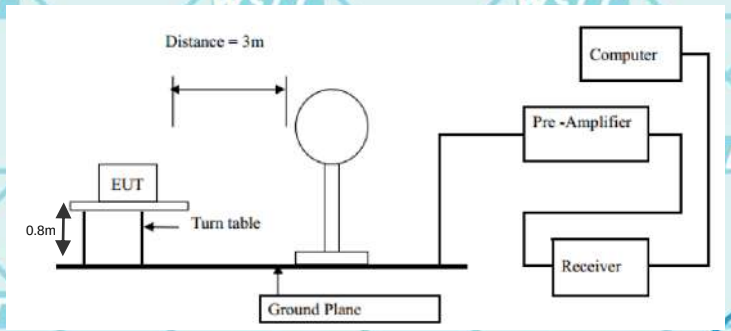
Tx. Spurious NVNT ax40 2437MHz Ant1 Emission

Tx. Spurious NVNT ax40 2452MHz Ant1 Ref

Tx. Spurious NVNT ax40 2452MHz Ant1 Emission

6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2014</td></tr>
<tr><td>Frequency Range:</td><td>9 kHz to 25 GHz</td></tr>
<tr><td>Measurement Distance:</td><td>3 m</td></tr>
<tr><td>Antenna Polarization:</td><td>Horizontal & Vertical</td></tr>
<tr><td>Operation mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>9kHz- 150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Field Strength (microvolts/meter)</th><th>Measurement Distance (meters)</th></tr>
<tr><td>0.009-0.490</td><td>2400/F(KHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(KHz)</td><td>30</td></tr>
<tr><td>1.705-30</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100</td><td>3</td></tr>
<tr><td>88-216</td><td>150</td><td>3</td></tr>
<tr><td>216-960</td><td>200</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
<table>
<tr><th>Frequency</th><th>Field Strength (microvolts/meter)</th><th>Measurement Distance (meters)</th><th>Detector</th></tr>
<tr><td rowspan="2">Above 1GHz</td><td>500</td><td>3</td><td>Average</td></tr>
<tr><td>5000</td><td>3</td><td>Peak</td></tr>
</table>
</td></tr>
<tr><td>Test setup:</td><td>For radiated emissions below 30MHz
 

30MHz to 1GHz</td></tr>
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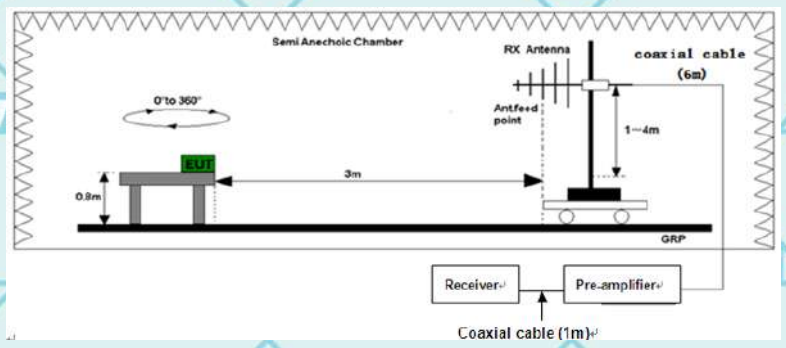
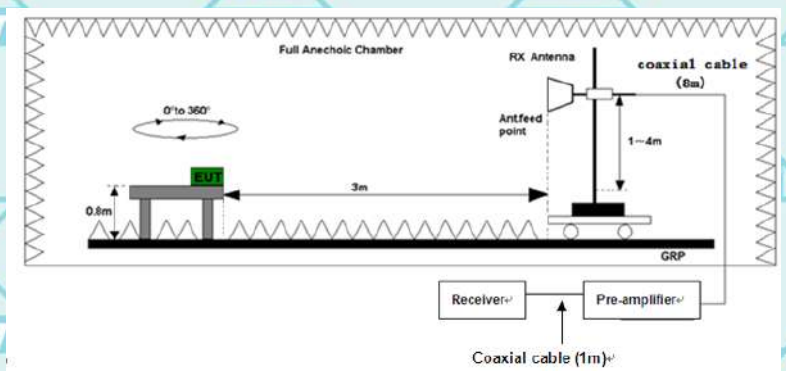


Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

	3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test results:	PASS

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

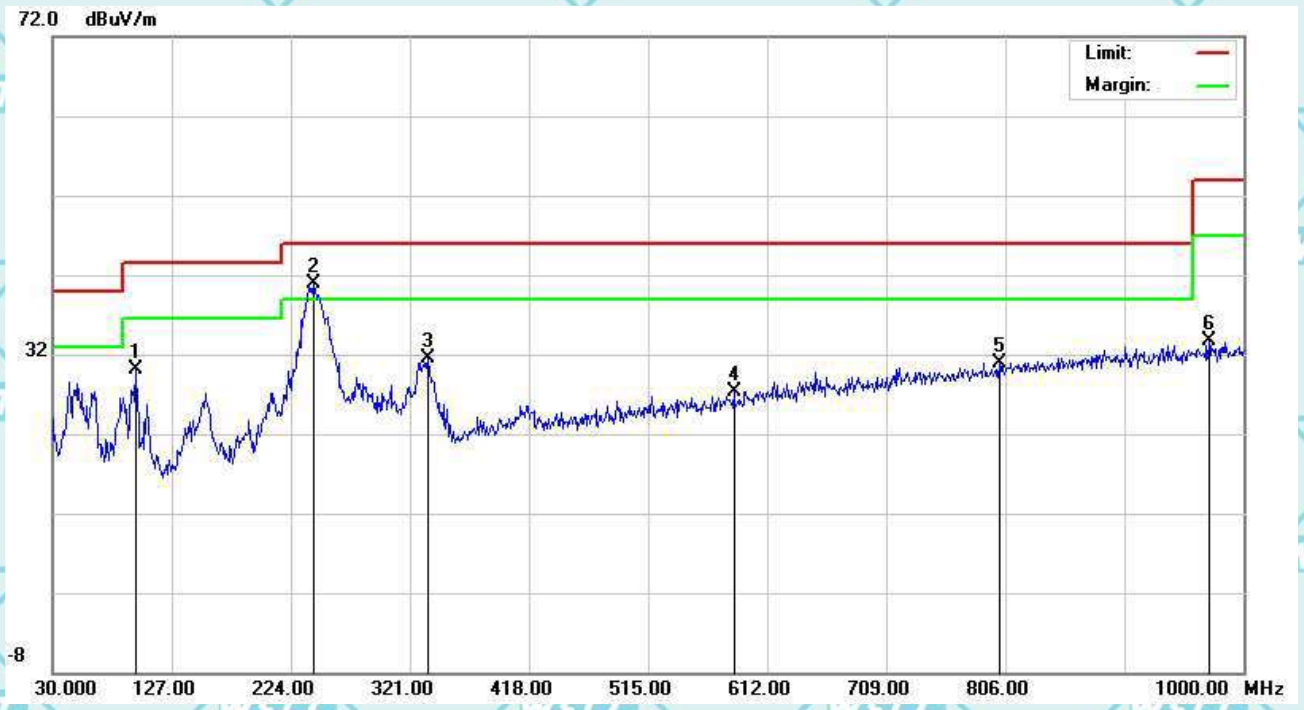
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

6.7.2. Test Data(worst)

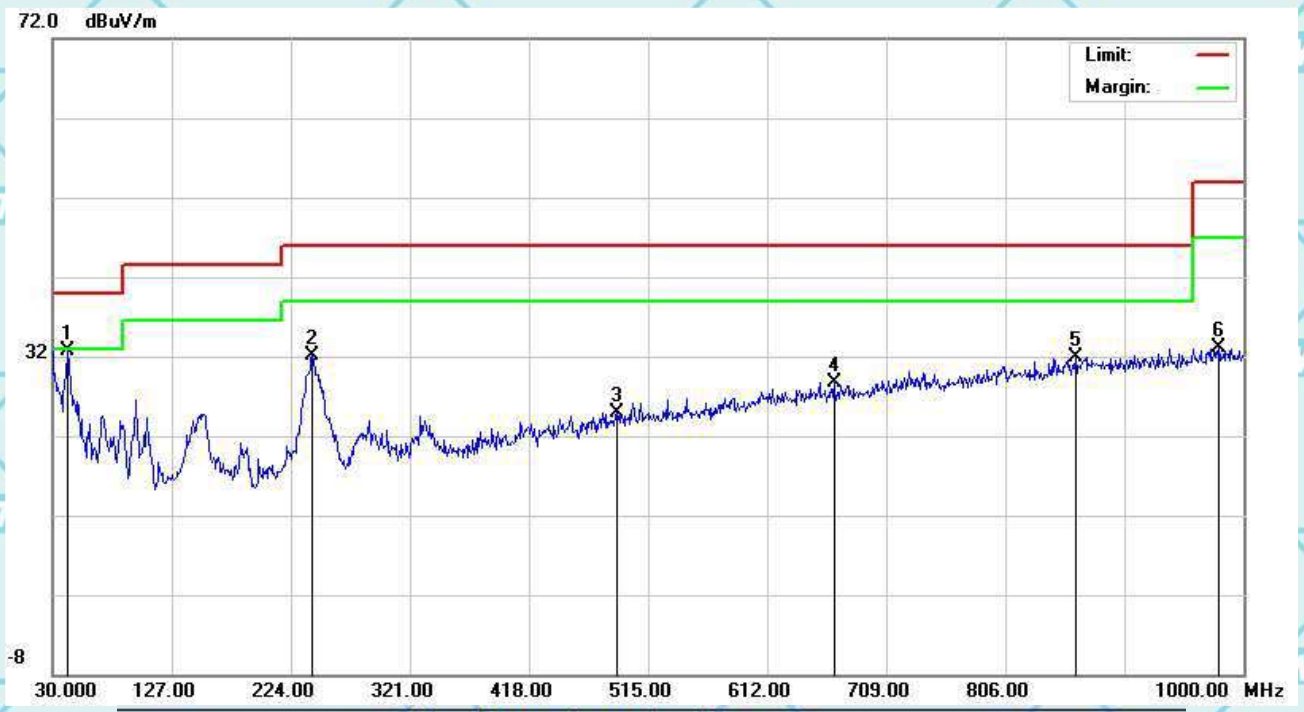
Please refer to following diagram for individual
Below 1GHz

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		97.9000	41.56	-11.42	30.14	43.50	-13.36	QP
2	*	242.4300	49.88	-8.96	40.92	46.00	-5.08	QP
3		335.5500	36.79	-5.38	31.41	46.00	-14.59	QP
4		584.8400	26.52	0.79	27.31	46.00	-18.69	QP
5		801.1500	26.03	4.94	30.97	46.00	-15.03	QP
6		971.8700	26.17	7.57	33.74	54.00	-20.26	QP

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	42.6100	53.25	-20.51	32.74	40.00	-7.26	QP
2		241.4600	51.51	-19.50	32.01	46.00	-13.99	QP
3		489.7800	43.30	-18.32	24.98	46.00	-21.02	QP
4		666.3200	46.17	-17.37	28.80	46.00	-17.20	QP
5		863.2300	48.19	-16.22	31.97	46.00	-14.03	QP
6		979.6300	48.48	-15.41	33.07	54.00	-20.93	QP

Note1:
Freq. = Emission frequency in MHz
Reading level (dBμV) = Receiver reading
Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.
Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)
Limit (dBμV) = Limit stated in standard
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Above 1GHz

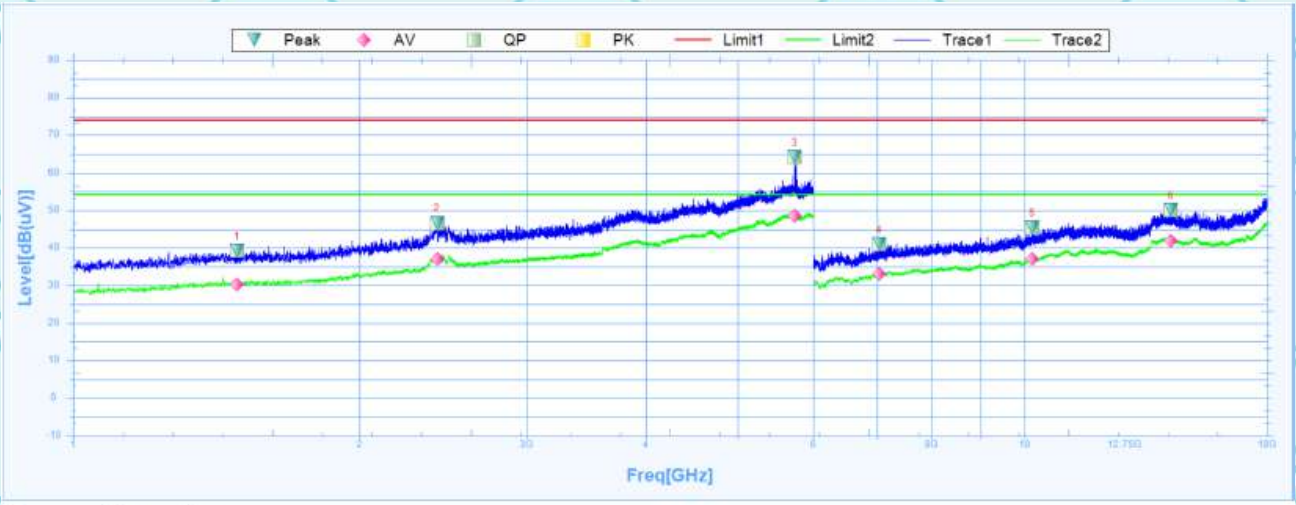
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: Report and only recorded the worst-case scenario 802.11b.

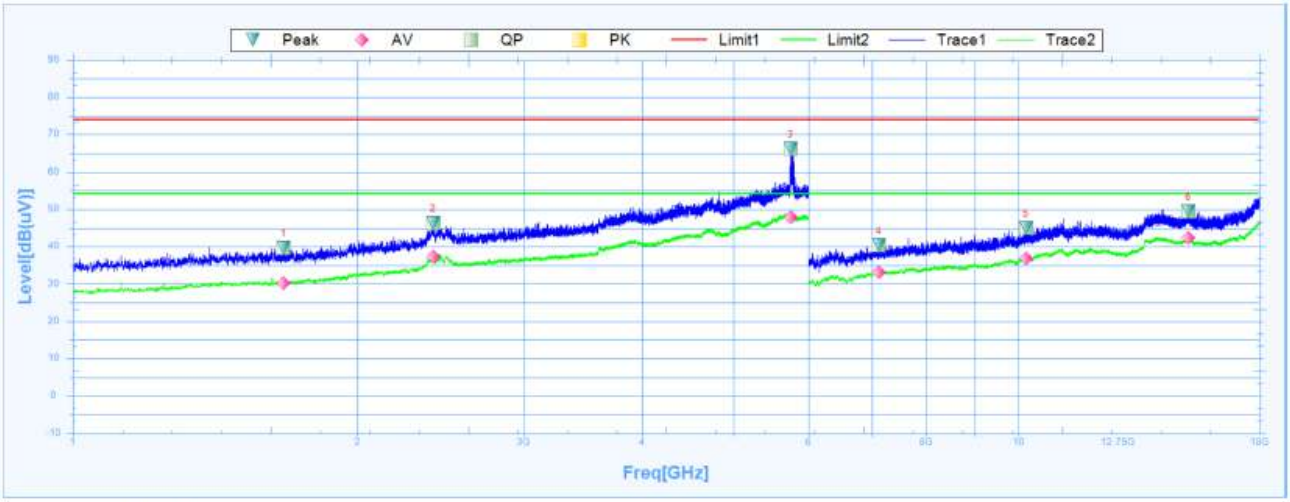
1 GHz to 18 GHz, ANT H 802.11b Low Channel

Horizontal:



Susputed Data List										
NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1486.2500	39.22	25.01	14.21	74	-34.78	45.1	Horizontal	PK	Pass
1	1486.2500	30.27	25.01	5.26	54	-23.73	45.1	Horizontal	AV	Pass
2	2413.7500	46.66	27.31	19.35	74	-27.34	195.7	Horizontal	PK	Pass
2	2413.7500	37.01	27.31	9.7	54	-16.99	195.7	Horizontal	AV	Pass
3	5739.3750	64.27	32.38	31.89	74	-9.73	143.1	Horizontal	PK	Pass
3	5739.3750	48.53	32.38	16.15	54	-5.47	143.1	Horizontal	AV	Pass
4	7039.5000	41	6.47	34.53	74	-33	340.9	Horizontal	PK	Pass
4	7039.5000	33.01	6.47	26.54	54	-20.99	340.9	Horizontal	AV	Pass
5	10195.5000	45.47	12.96	32.51	74	-28.53	9.8	Horizontal	PK	Pass
5	10195.5000	37.09	12.96	24.13	54	-16.91	9.8	Horizontal	AV	Pass
6	14263.5000	50.07	18.86	31.21	74	-23.93	76.2	Horizontal	PK	Pass
6	14263.5000	41.95	18.86	23.09	54	-12.05	76.2	Horizontal	AV	Pass

Vertical：

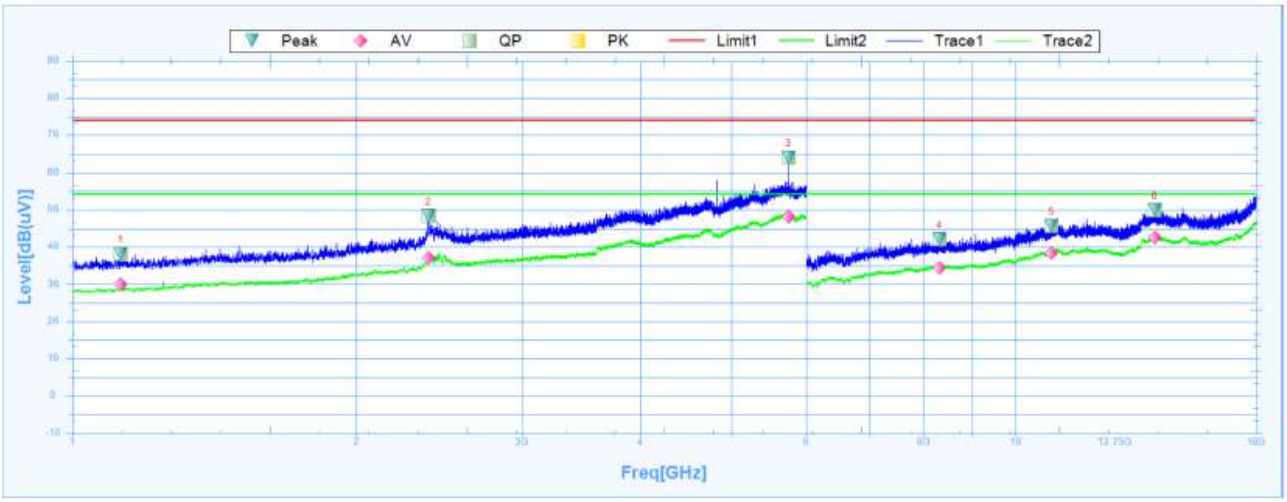


Susputed Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1670.6250	39.61	24.94	14.67	74	-34.39	360.1	Vertical	PK	Pass
1	1670.6250	30.19	24.94	5.25	54	-23.81	360.1	Vertical	AV	Pass
2	2405.6250	46.39	27.28	19.11	74	-27.61	185.8	Vertical	PK	Pass
2	2405.6250	37.26	27.28	9.98	54	-16.74	185.8	Vertical	AV	Pass
3	5745.0000	66.23	32.39	33.84	74	-7.77	342.4	Vertical	PK	Pass
3	5745.0000	47.9	32.39	15.51	54	-6.1	342.4	Vertical	AV	Pass
4	7123.5000	40.43	6.84	33.59	74	-33.57	353.9	Vertical	PK	Pass
4	7123.5000	32.98	6.84	26.14	54	-21.02	353.9	Vertical	AV	Pass
5	10191.0000	45.09	12.95	32.14	74	-28.91	-0.1	Vertical	PK	Pass
5	10191.0000	36.77	12.95	23.82	54	-17.23	-0.1	Vertical	AV	Pass
6	15136.5000	49.51	19.64	29.87	74	-24.49	-0.1	Vertical	PK	Pass
6	15136.5000	42.41	19.64	22.77	54	-11.59	-0.1	Vertical	AV	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

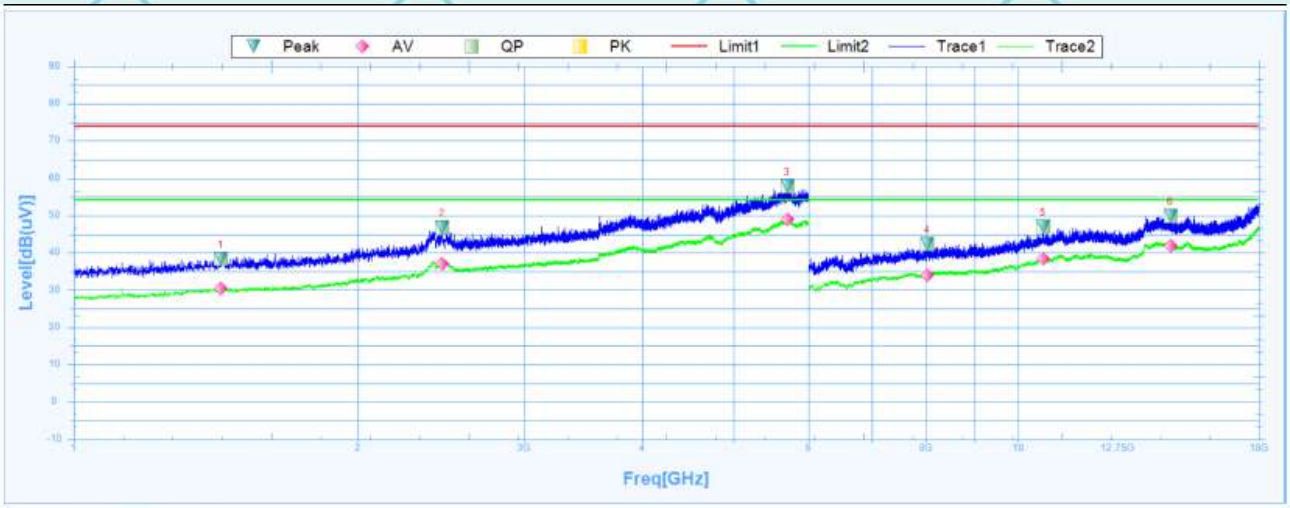
Horizontal:



Susputed Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1125.0000	38.19	24.36	13.83	74	-35.81	226.2	Horizontal	PK	Pass
1	1125.0000	30.08	24.36	5.72	54	-23.92	226.2	Horizontal	AV	Pass
2	2386.8750	48.29	27.22	21.07	74	-25.71	1.1	Horizontal	PK	Pass
2	2386.8750	36.96	27.22	9.74	54	-17.04	1.1	Horizontal	AV	Pass
3	5746.2500	63.96	32.39	31.57	74	-10.04	49.4	Horizontal	PK	Pass
3	5746.2500	48.19	32.39	15.8	54	-5.81	49.4	Horizontal	AV	Pass
4	8310.0000	42.05	8.95	33.1	74	-31.95	259.1	Horizontal	PK	Pass
4	8310.0000	34.48	8.95	25.53	54	-19.52	259.1	Horizontal	AV	Pass
5	10926.0000	45.77	15.21	30.56	74	-28.23	326.1	Horizontal	PK	Pass
5	10926.0000	38.45	15.21	23.24	54	-15.55	326.1	Horizontal	AV	Pass
6	14047.5000	49.89	19.08	30.81	74	-24.11	326.1	Horizontal	PK	Pass
6	14047.5000	42.52	19.08	23.44	54	-11.48	326.1	Horizontal	AV	Pass

Vertical：



Susputed Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1430.6250	38.44	25.07	13.37	74	-35.56	80.6	Vertical	PK	Pass
1	1430.6250	30.38	25.07	5.31	54	-23.62	80.6	Vertical	AV	Pass
2	2455.6250	46.69	27.45	19.24	74	-27.31	328.1	Vertical	PK	Pass
2	2455.6250	37.12	27.45	9.67	54	-16.88	328.1	Vertical	AV	Pass
3	5696.8750	57.91	32.32	25.59	74	-16.09	133.2	Vertical	PK	Pass
3	5696.8750	49.04	32.32	16.72	54	-4.96	133.2	Vertical	AV	Pass
4	8017.5000	42.29	8.32	33.97	74	-31.71	281.3	Vertical	PK	Pass
4	8017.5000	33.91	8.32	25.59	54	-20.09	281.3	Vertical	AV	Pass
5	10627.5000	46.93	14.42	32.51	74	-27.07	359.9	Vertical	PK	Pass
5	10627.5000	38.43	14.42	24.01	54	-15.57	359.9	Vertical	AV	Pass
6	14503.5000	49.84	18.63	31.21	74	-24.16	151	Vertical	PK	Pass
6	14503.5000	41.87	18.63	23.24	54	-12.13	151	Vertical	AV	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

Horizontal:

Susputed Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1125.0000	37.57	24.36	13.21	74	-36.43	11.4	Horizontal	PK	Pass
1	1125.0000	30.94	24.36	6.58	54	-23.06	11.4	Horizontal	AV	Pass
2	2387.5000	47.89	27.22	20.67	74	-26.11	0.6	Horizontal	PK	Pass
2	2387.5000	36.53	27.22	9.31	54	-17.47	0.6	Horizontal	AV	Pass
3	4824.3750	58.23	31.25	26.98	74	-15.77	133.2	Horizontal	PK	Pass
3	4824.3750	43.13	31.25	11.88	54	-10.87	133.2	Horizontal	AV	Pass
4	7359.0000	40.7	7.01	33.69	74	-33.3	198.2	Horizontal	PK	Pass
4	7359.0000	33.2	7.01	26.19	54	-20.8	198.2	Horizontal	AV	Pass
5	10182.0000	43.89	12.91	30.98	74	-30.11	33.2	Horizontal	PK	Pass
5	10182.0000	36.77	12.91	23.86	54	-17.23	33.2	Horizontal	AV	Pass
6	15025.5000	49.63	19.09	30.54	74	-24.37	97.8	Horizontal	PK	Pass
6	15025.5000	41.66	19.09	22.57	54	-12.34	97.8	Horizontal	AV	Pass

Vertical：

Susputed Data List										
NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1521.8750	39.79	24.98	14.81	74	-34.21	17.7	Vertical	PK	Pass
1	1521.8750	29.89	24.98	4.91	54	-24.11	17.7	Vertical	AV	Pass
2	2455.0000	47.42	27.45	19.97	74	-26.58	132.4	Vertical	PK	Pass
2	2455.0000	37.44	27.45	9.99	54	-16.56	132.4	Vertical	AV	Pass
3	4824.3750	58.56	31.25	27.31	74	-15.44	65.4	Vertical	PK	Pass
3	4824.3750	42.91	31.25	11.66	54	-11.09	65.4	Vertical	AV	Pass
4	7216.5000	40.65	6.98	33.67	74	-33.35	360	Vertical	PK	Pass
4	7216.5000	33.43	6.98	26.45	54	-20.57	360	Vertical	AV	Pass
5	10192.5000	43.85	12.95	30.9	74	-30.15	311.3	Vertical	PK	Pass
5	10192.5000	37.1	12.95	24.15	54	-16.9	311.3	Vertical	AV	Pass
6	16912.5000	50.13	20.06	30.07	74	-23.87	2.7	Vertical	PK	Pass
6	16912.5000	42.38	20.06	22.32	54	-11.62	2.7	Vertical	AV	Pass

Note:
1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
2. Emission Level= Reading Level+ Probe Factor +Cable Loss.
3. Data of measurement within this frequency range shown “--” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

6.7.3. Restricted Bands Requirements

Test result for 802.11b Mode (the worst case)

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel							
2390	62.50	-8.76	53.74	74	20.26	H	PK
2390	53.42	-8.76	44.66	54	9.34	H	AV
2390	59.55	-8.73	50.82	74	23.18	V	PK
2390	57.29	-8.73	48.56	54	5.44	V	AV
High Channel							
2483.5	62.85	-8.17	54.68	74	19.32	H	PK
2483.5	53.96	-8.17	45.79	54	8.21	H	AV
2483.5	63.40	-8.17	55.23	74	18.77	V	PK
2483.5	53.12	-8.17	44.95	54	9.05	V	AV

Note: Freq. = Emission frequency in MHz
Reading level (dBµV) = Receiver reading
Corr. Factor (dB) = Attenuation factor + Cable loss
Level (dBµV) = Reading level (dBµV) + Corr. Factor (dB)
Limit (dBµV) = Limit stated in standard
Margin (dB) = Level (dBµV) – Limits (dBµV)

7. Test Setup Photographs

Please refer to Annex "Set Up Photos-15C" for test setup photos

*******END OF REPORT*******