

TEST REPORT

FCC ID: 2AW9M-X109

Product: Tablet

Model No.: X105, X105L, X106, X106L, X107, X107L, X108, X109, X109L, XT1016,
XT1026, XT1028, A10PRO, X10, X12, X12L, X13, X10PRO, X10A PRO, X10B PRO,
X109L, X100, X100L, X100PRO, X14, X14L, X13L, X13PRO

Trade Mark: N/A

Report No.: WSCT-ANAB-R&E250900073A1-Wi-Fi1

Issued Date: 28 July 2026

Issued for:

Shenzhen Efercro Electronic Technology Co., Ltd.

Room 901, Block E, Building 1, Section 1, Chuangzhi Yuncheng,
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Issued By:

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Reported to the differences:

No.	Item	Before the change	After the change
1	Report No	WSCT-ANAB-R&E250900073A-Wi-Fi1	WSCT-ANAB-R&E250900073A1-Wi-Fi1
2	Fast charging	Not supported	Support
3	Adapter	Adapter1: G50-US-0502000 Input: 100-240V~0.35A MAX 50/60Hz Output: 5.0V~2.0A 10.0W Adapter2: PS10UA050K2000UU Input: 100-240V~0.35A MAX 50/60Hz Output: 5.0V~2.0A 10.0W	Adapter1: G50-US-0502000 Input: 100-240V~0.35A MAX 50/60Hz Output: 5.0V~2.0A 10.0W Adapter2: PS10UA050K2000UU Input: 100-240V~0.35A MAX 50/60Hz Output: 5.0V~2.0A 10.0W Adapter3: TPD-203R120167UF01 Input: 100-240V-50/60Hz 0.6A USB-C Output: 5.0V~2.0A or 9.0V~2.22A or 12.0V~1.67A

Note: Based on the appeal, this report is updated to include the Conducted Emission test.

1. Test Certification

Product: Tablet

Model No.: X105, X105L, X106, X106L, X107, X107L, X108, X109, X109L, XT1016, XT1026, XT1028, A10PRO, X10, X12, X12L, X13, X10PRO, X10A PRO, X10B PRO, X109L, X100, X100L, X100PRO, X14, X14L, X13L, X13PRO

Trade Mark: N/A

Applicant: Shenzhen Efercro Electronic Technology Co., Ltd.

Address: Room 901, Block E, Building 1, Section 1, Chuangzhi Yuncheng, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen

Manufacturer: Shenzhen Efercro Electronic Technology Co., Ltd.

Address: Room 901, Block E, Building 1, Section 1, Chuangzhi Yuncheng, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen

Date of Test: 08 July 2026 ~ 27 July 2026

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 system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

(Wang Xiang)

Checked By:

(Qin Shuiquan)

Approved By:

(Li Huaibi)

Date:

28 July 2026

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
Conducted Peak 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	§15.247(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:	Tablet
Model No.:	X105, X105L, X106, X106L, X107, X107L, X108, X109, X109L, XT1016, XT1026, XT1028, A10PRO, X10,X12, X12L, X13, X10PRO, X10A PRO, X10B PRO, X109L, X100, X100L, X100PRO, X14, X14L, X13L, X13PRO
Trade Mark:	N/A
Software Version	Android
Hardware Version	863KA_MB_V1.2
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) for IEEE 802.11g/n OFDM/OFDMA(BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM) for IEEE 802.11ax
Antenna Type:	Integral Antenna
Antenna Gain	1.51 dBi
Operating Voltage:	Adapter1: G50-US-0502000 Input: 100-240V~0.35A MAX 50/60Hz Output: 5.0V~2.0A 10.0W Adapter2: PS10UA050K2000UU Input: 100-240V~0.35A MAX 50/60Hz Output: 5.0V~2.0A 10.0W Adapter2:TPD-203R120167UF01 Input: 100-240V-50/60Hz 0.6A USB-C Output: 5.0V~2.0A or 9.0W~2.22A or 12.0V~1.67A Rechargeable Li-ion Polymer Battery: 2894130 Capacity:3.8V 5000mAh
Remark:	N/A.

Note:

1.N/A stands for no applicable.

2.The customer declares that all series models are completely identical in terms of circuitry, electrical, mechanical, and physical structure; the only differences are in appearance (color and silk screen), color, and model number, which are used solely for trade purposes. The aforementioned appearance refers only to color and silk screen.

3.Among the series models X105, X105L, X106, X106L, X107, X107L, X108, X109, X109L, XT1016, XT1026, XT1028, A10PRO, X10, X12, X12L, X13, X10PRO, X10A PRO, X10B PRO, X109L, X100, X100L, X100PRO, X14, X14L, X13L, X13PRO, X109 is the primary test model, and all test data originate from X109.

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. General 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/ax(H20)
802.11n/ax(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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	Adapter1-3		/	N/A

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, Shiyao 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 32. 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

The reported uncertainty of measurement $y \pm U$, 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 %.

No.	Item	MU
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1GHz)	$\pm 4.7\text{dB}$
5	All emissions, radiated(>1GHz)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2.0\%$

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	2025-11-05	2026-11-04
LISN	AFJ	LS16	16010222119	2025-11-05	2026-11-04
LISN(EUT)	Mestec	AN3016	04/10040	2025-11-05	2026-11-04
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	2025-11-05	2026-11-04
Coaxial cable	Megalon	LMR400	N/A	2025-11-05	2026-11-04
GPIO cable	Megalon	GPIO	N/A	2025-11-05	2026-11-04
Spectrum Analyzer	R&S	FSU	100114	2025-11-05	2026-11-04
Pre Amplifier	H.P.	HP8447E	2945A02715	2025-11-05	2026-11-04
Pre-Amplifier	CDSI	PAP-1G18-38	--	2025-11-05	2026-11-04
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	2025-07-29	2026-07-28
9*6*6 Anechoic	--	--	--	2025-11-05	2026-11-04
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	2025-11-05	2026-11-04
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	2025-11-05	2026-11-04
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	2025-11-05	2026-11-04
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	-	2025-11-05	2026-11-04
Loop Antenna	EMCO	6502	00042960	2025-11-05	2026-11-04
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	2025-11-05	2026-11-04
Power meter	Anritsu	ML2487A	6K00003613	2025-11-05	2026-11-04
Power sensor	Anritsu	MX248XD	--	2025-11-05	2026-11-04
Spectrum Analyzer	Keysight	N9010B	MY60241089	2025-11-05	2026-11-04

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 Wi-Fi antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is 1.51dBi .

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10 2020														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	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
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:	Reference Plane Remark: E.U.T: Equipment Under Test LISN: Line Impedance 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 C63.10:2020 on conducted measurement.														
Test Result:	PASS														

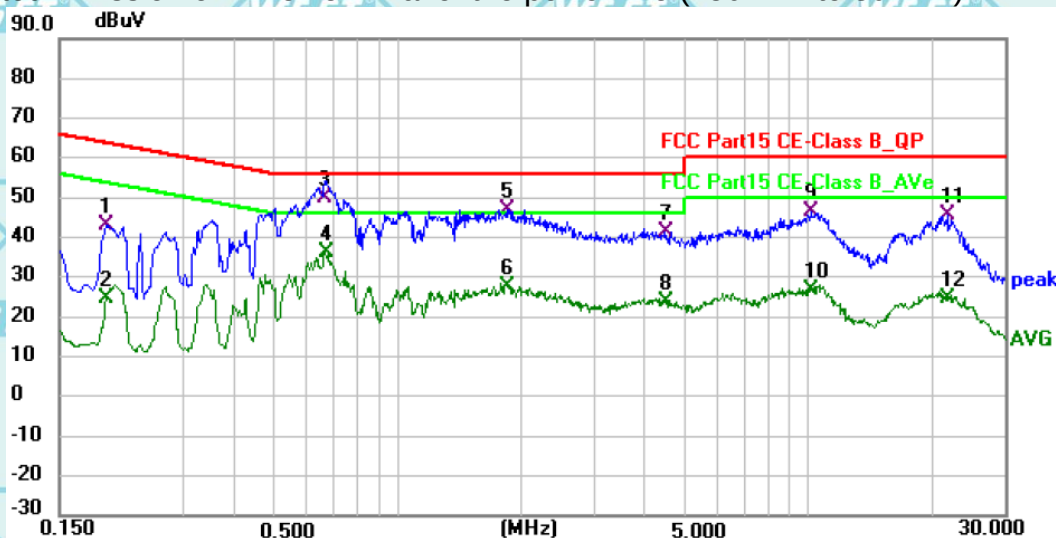
6.2.2. EUT OPERATING CONDITIONS

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.

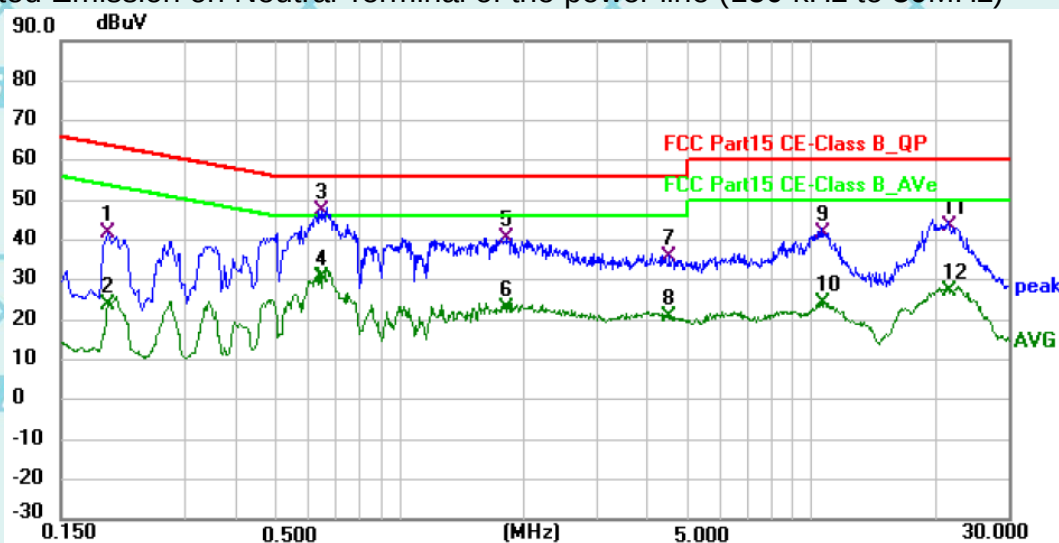
Test data(Only the worst-case scenario mode is recorded: intermediate channel of 802.11g)

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	0.1949	22.56	20.69	43.25	63.83	-20.58	QP
2	0.1949	4.10	20.69	24.79	53.83	-29.04	AVG
3 *	0.6654	29.32	20.53	49.85	56.00	-6.15	QP
4	0.6675	15.54	20.54	36.08	46.00	-9.92	AVG
5	1.8420	26.37	20.62	46.99	56.00	-9.01	QP
6	1.8420	6.86	20.62	27.48	46.00	-18.52	AVG
7	4.4699	20.84	20.58	41.42	56.00	-14.58	QP
8	4.4699	3.27	20.58	23.85	46.00	-22.15	AVG
9	10.1310	26.19	20.44	46.63	60.00	-13.37	QP
10	10.1310	6.30	20.44	26.74	50.00	-23.26	AVG
11	21.7500	25.39	20.38	45.77	60.00	-14.23	QP
12	21.7500	4.36	20.38	24.74	50.00	-25.26	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	0.1949	21.17	20.69	41.86	63.83	-21.97	QP
2	0.1949	3.03	20.69	23.72	53.83	-30.11	AVG
3 *	0.6495	26.74	20.53	47.27	56.00	-8.73	QP
4	0.6495	10.20	20.53	30.73	46.00	-15.27	AVG
5	1.8285	20.05	20.62	40.67	56.00	-15.33	QP
6	1.8285	2.27	20.62	22.89	46.00	-23.11	AVG
7	4.5195	15.42	20.58	36.00	56.00	-20.00	QP
8	4.5195	0.21	20.58	20.79	46.00	-25.21	AVG
9	10.6215	21.53	20.42	41.95	60.00	-18.05	QP
10	10.6215	3.80	20.42	24.22	50.00	-25.78	AVG
11	21.6465	23.19	20.37	43.56	60.00	-16.44	QP
12	21.6465	6.68	20.37	27.05	50.00	-22.95	AVG

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

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

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

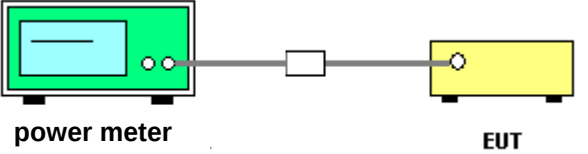
Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) - Limits (dBuV)

Q.P. =Quasi-Peak AVG =average

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

6.3. Conducted Peak Output Power

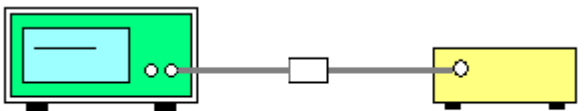
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2020
Limit:	30dBm
Test Setup:	 The diagram illustrates the test setup. On the left is a green box labeled 'power meter'. A line connects it to a small white box labeled 'attenuator'. Another line connects the attenuator to a yellow box labeled 'EUT' (Equipment Under Test).
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the power meter 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 Data

Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	19.03	30	Pass
b	2437	17.96	30	Pass
b	2462	18.26	30	Pass
g	2412	23.76	30	Pass
g	2437	23.58	30	Pass
g	2462	22.84	30	Pass
n20	2412	23.69	30	Pass
n20	2437	23.35	30	Pass
n20	2462	22.63	30	Pass
n40	2422	23.03	30	Pass
n40	2437	23.31	30	Pass
n40	2452	22.96	30	Pass
ax20	2412	18.00	30	Pass
ax20	2437	17.65	30	Pass
ax20	2462	17.08	30	Pass
ax40	2422	17.15	30	Pass
ax40	2437	17.55	30	Pass
ax40	2452	17.09	30	Pass

6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2020
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02. 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

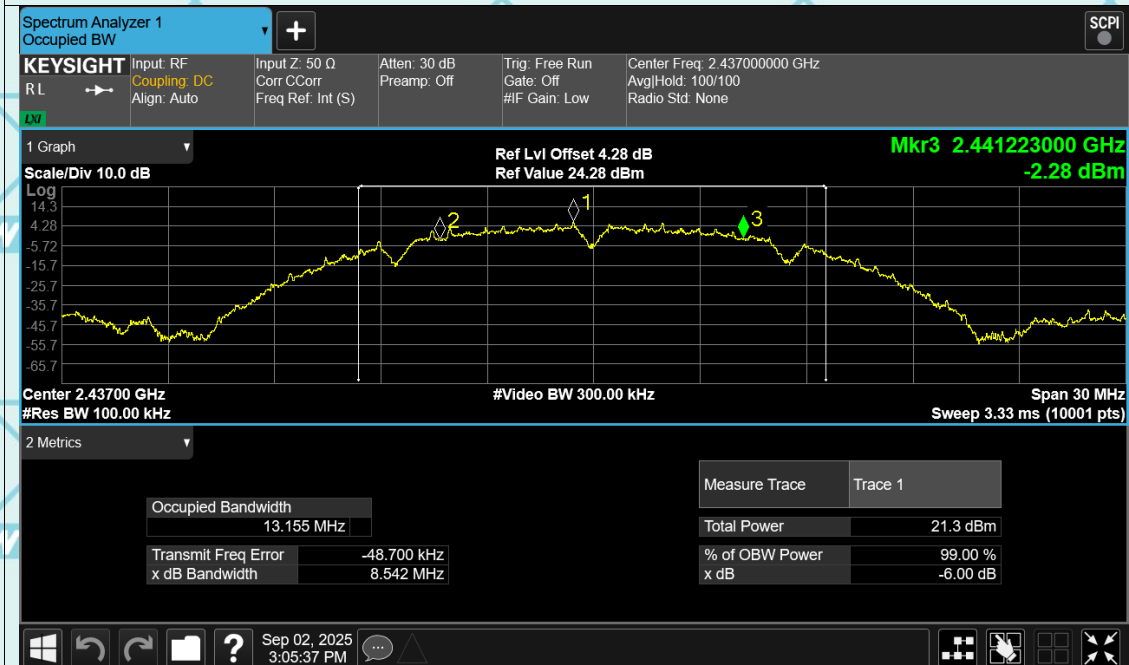
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	10.048	0.5	Pass
b	2437	8.542	0.5	Pass
b	2462	8.144	0.5	Pass
g	2412	16.365	0.5	Pass
g	2437	16.295	0.5	Pass
g	2462	16.314	0.5	Pass
n20	2412	15.474	0.5	Pass
n20	2437	15.035	0.5	Pass
n20	2462	17.597	0.5	Pass
n40	2422	34.522	0.5	Pass
n40	2437	34.66	0.5	Pass
n40	2452	31.734	0.5	Pass
ax20	2412	16.321	0.5	Pass
ax20	2437	16.391	0.5	Pass
ax20	2462	16.348	0.5	Pass
ax40	2422	35.065	0.5	Pass
ax40	2437	36.349	0.5	Pass
ax40	2452	36.297	0.5	Pass

Test Graphs

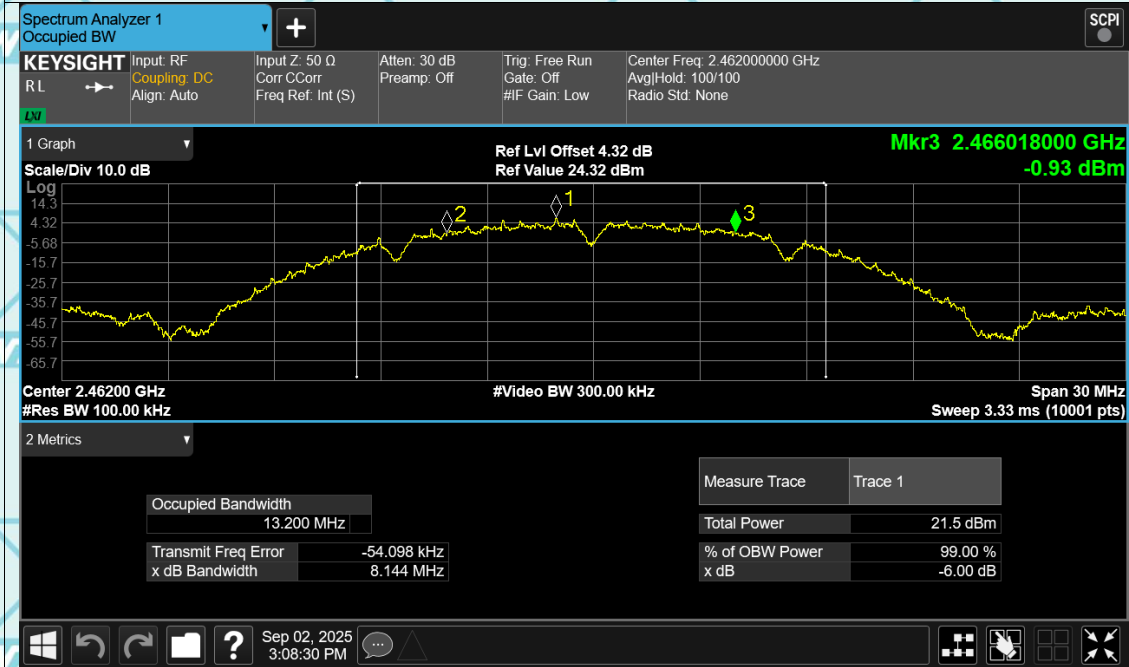
-6dB Bandwidth NVNT b 2412MHz Ant1



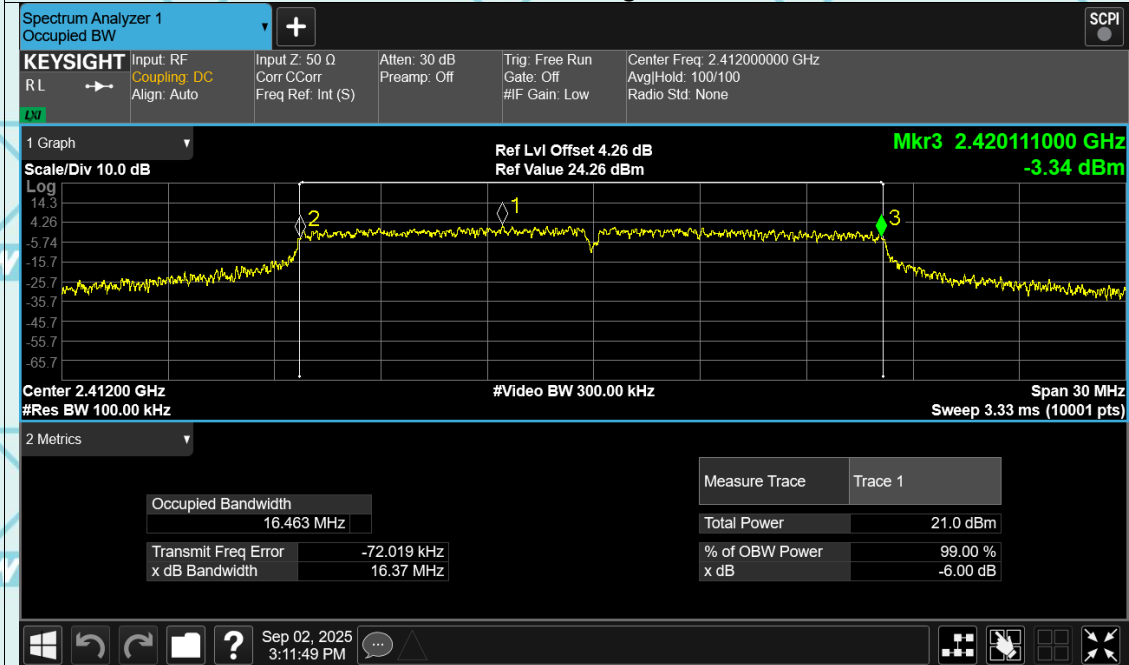
-6dB Bandwidth NVNT b 2437MHz Ant1



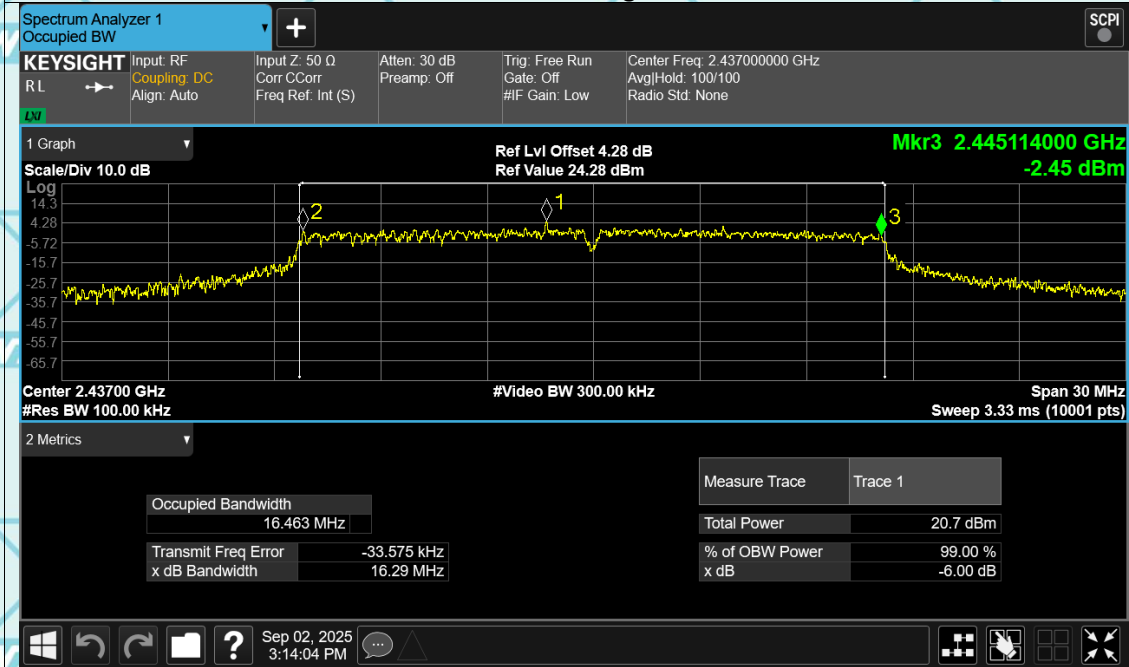
-6dB Bandwidth NVNT b 2462MHz Ant1



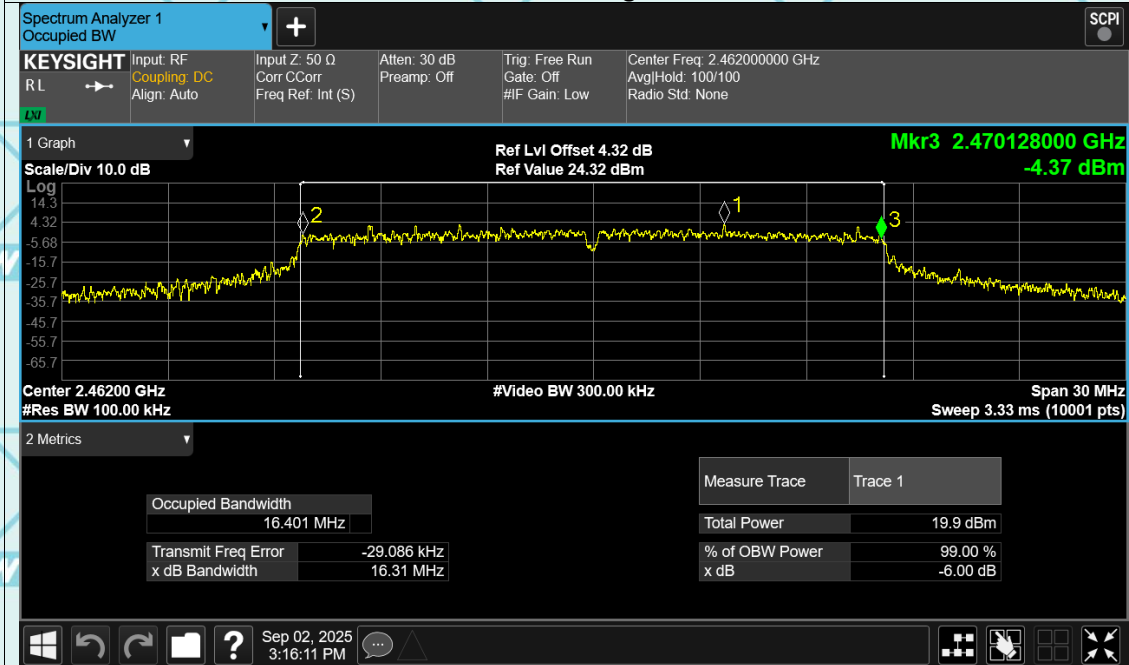
-6dB Bandwidth NVNT g 2412MHz Ant1



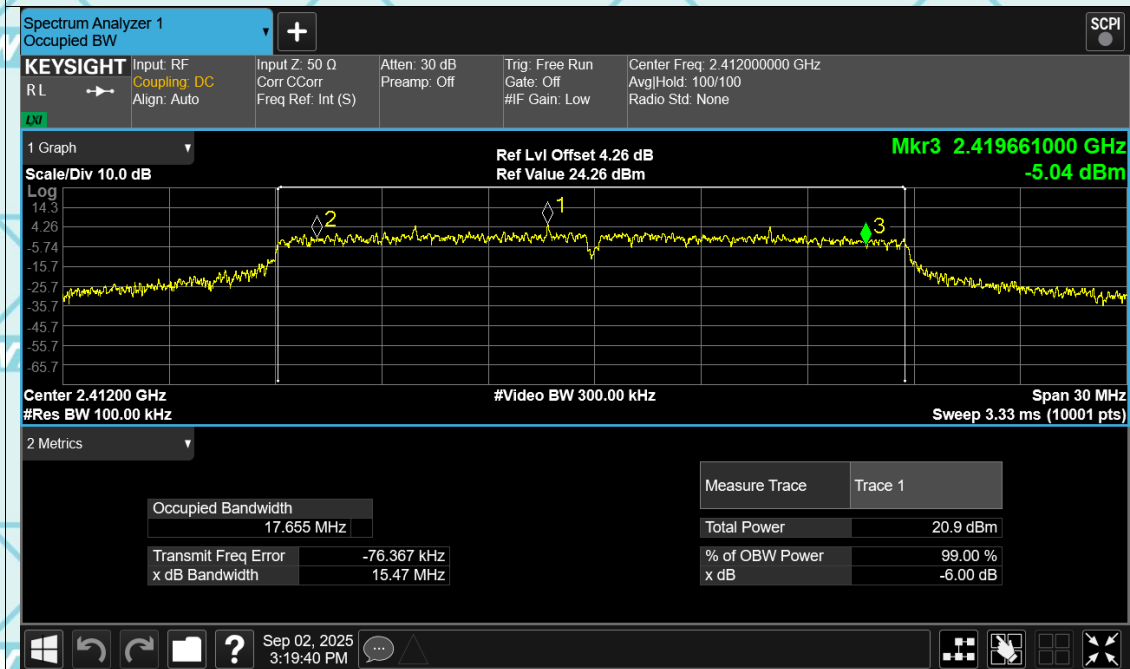
-6dB Bandwidth NVNT g 2437MHz Ant1



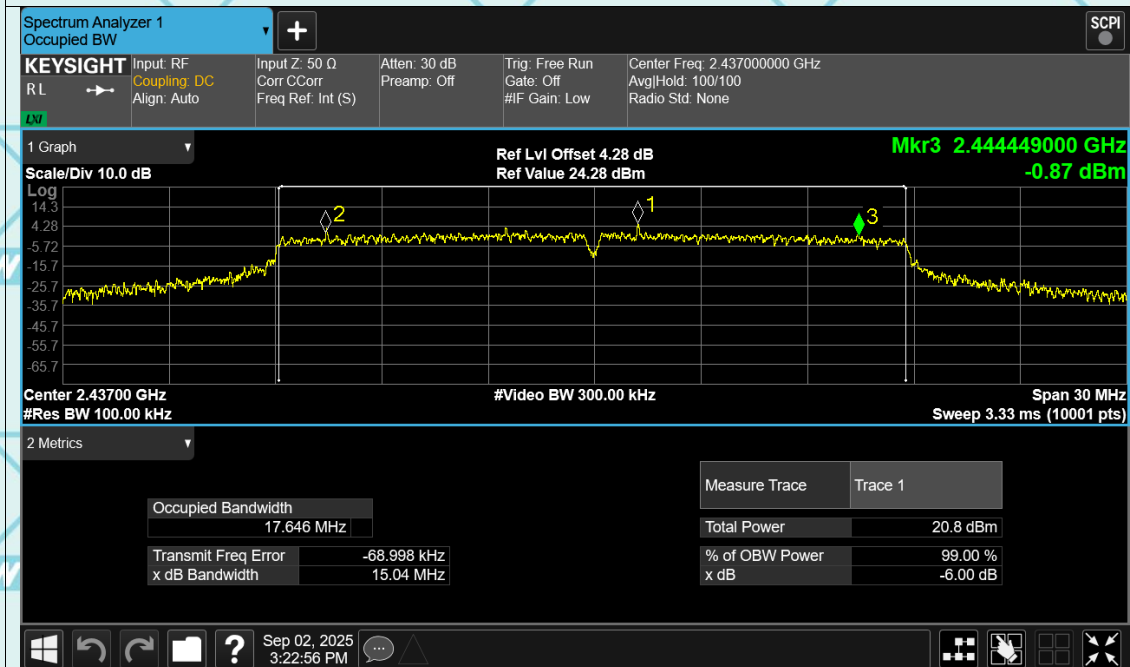
-6dB Bandwidth NVNT g 2462MHz Ant1

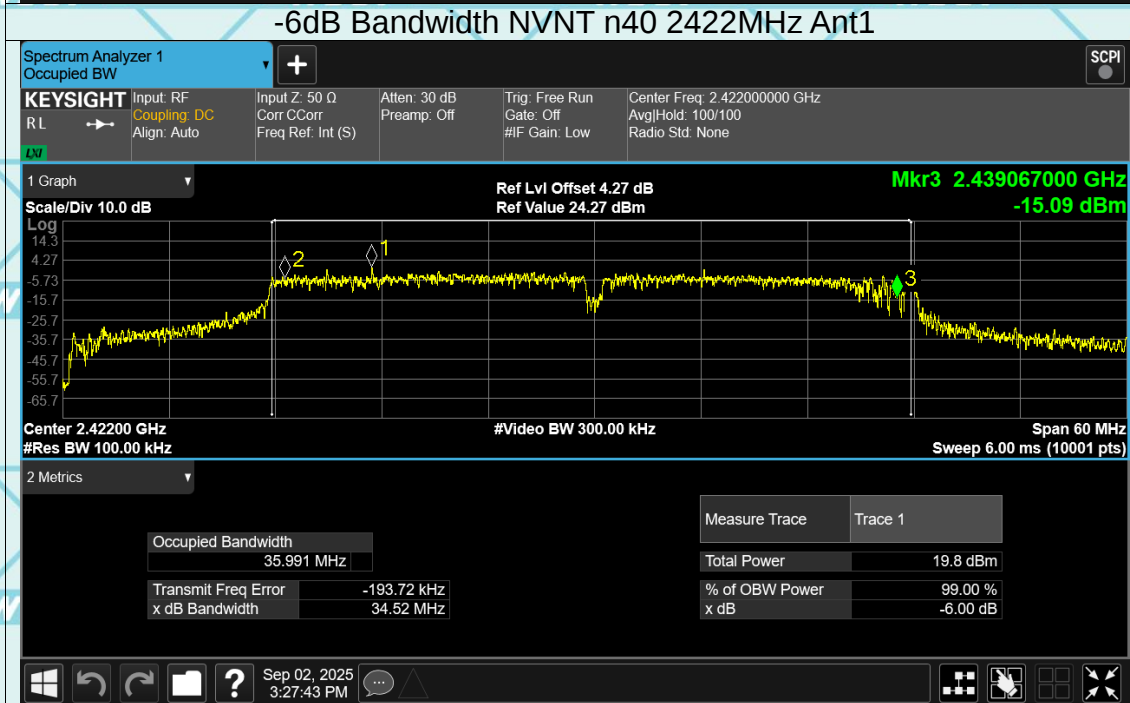
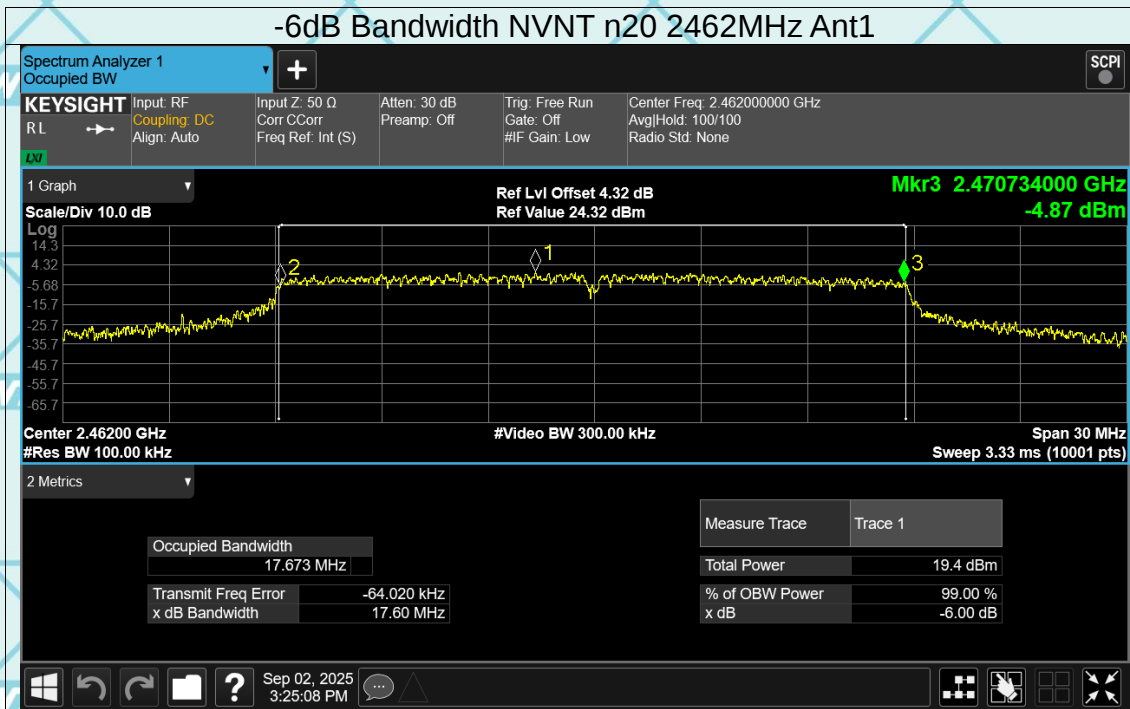


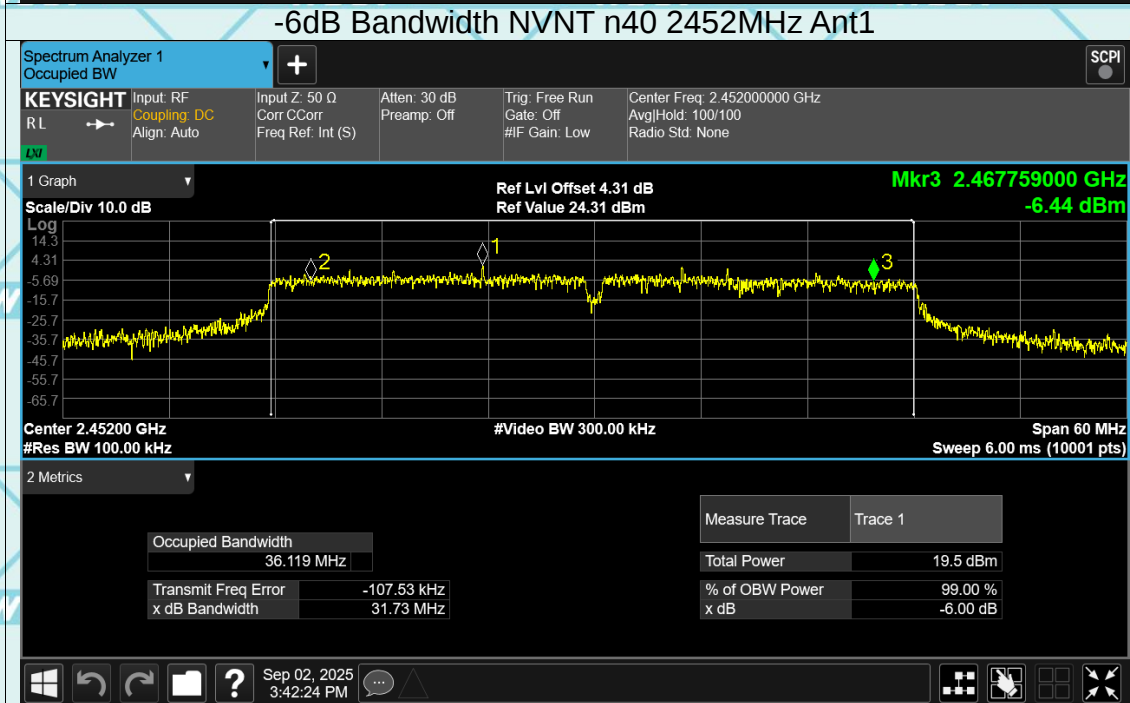
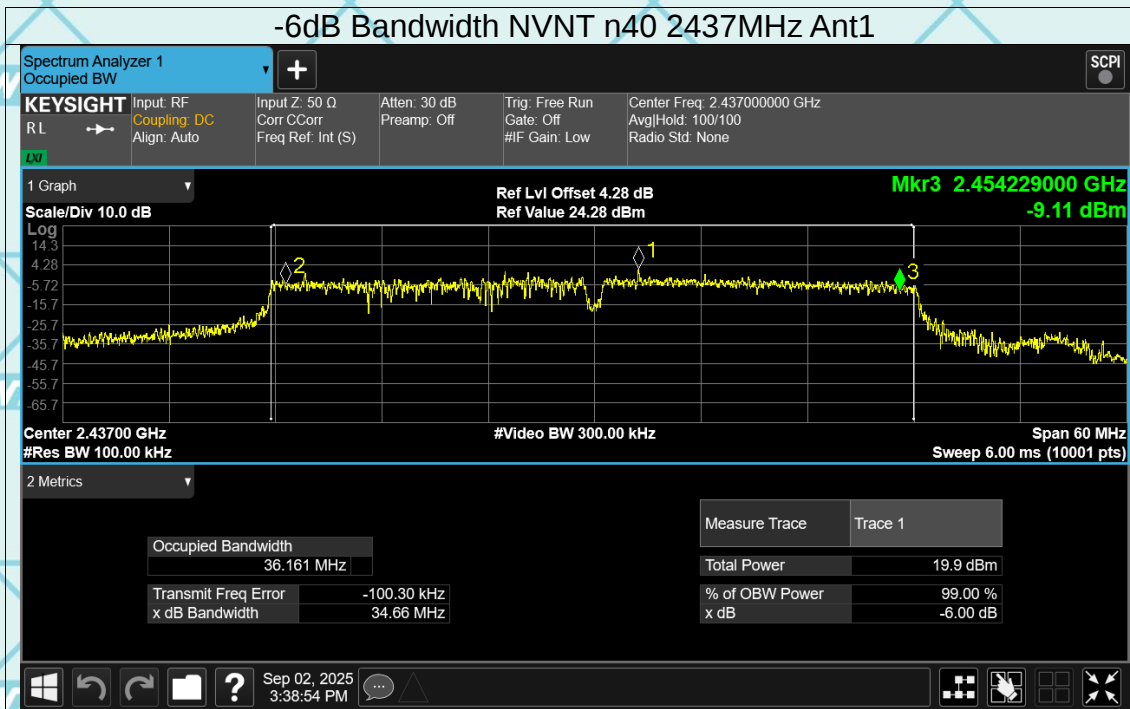
-6dB Bandwidth NVNT n20 2412MHz Ant1

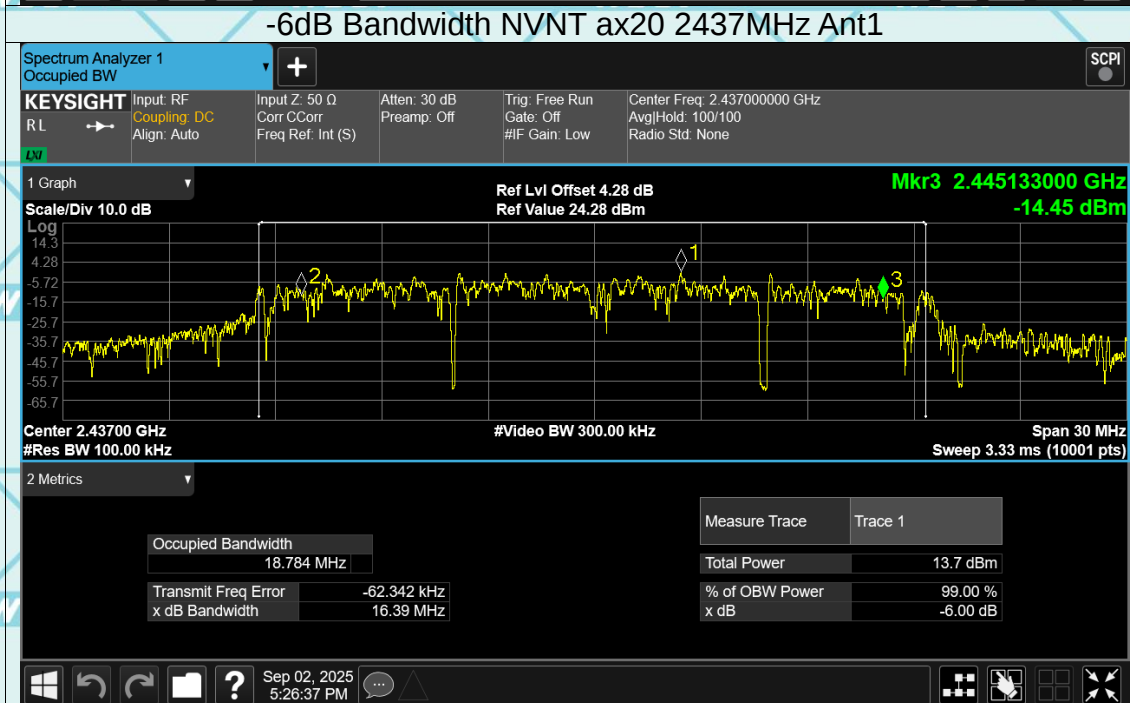
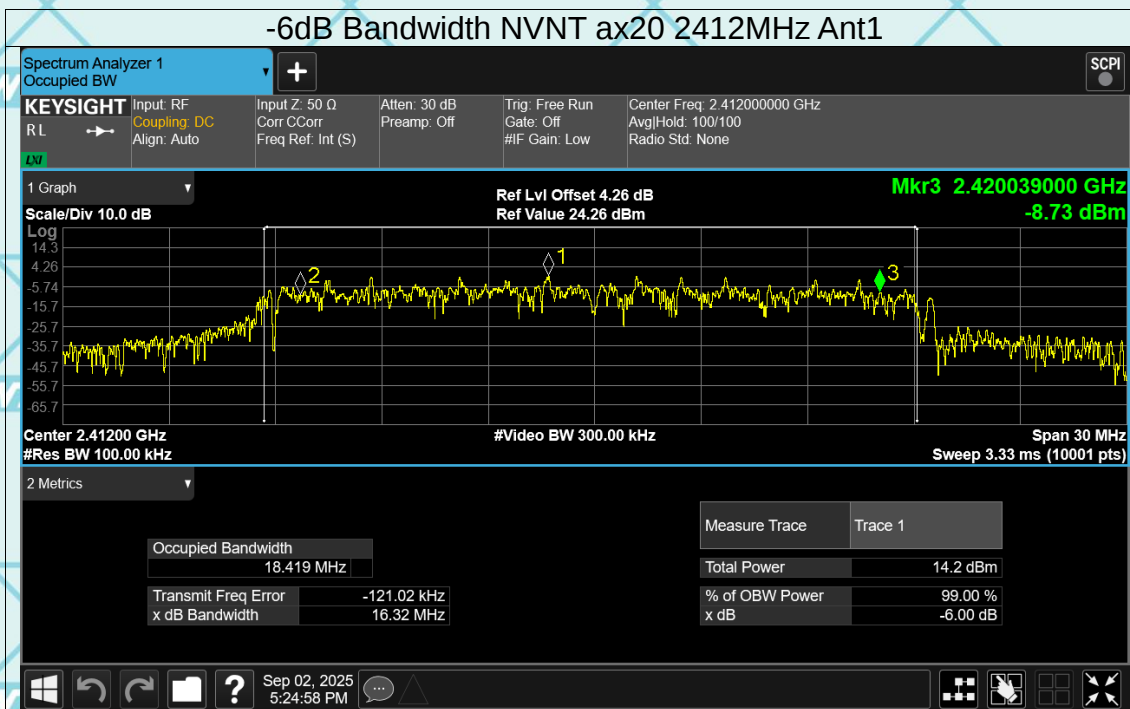


-6dB Bandwidth NVNT n20 2437MHz Ant1

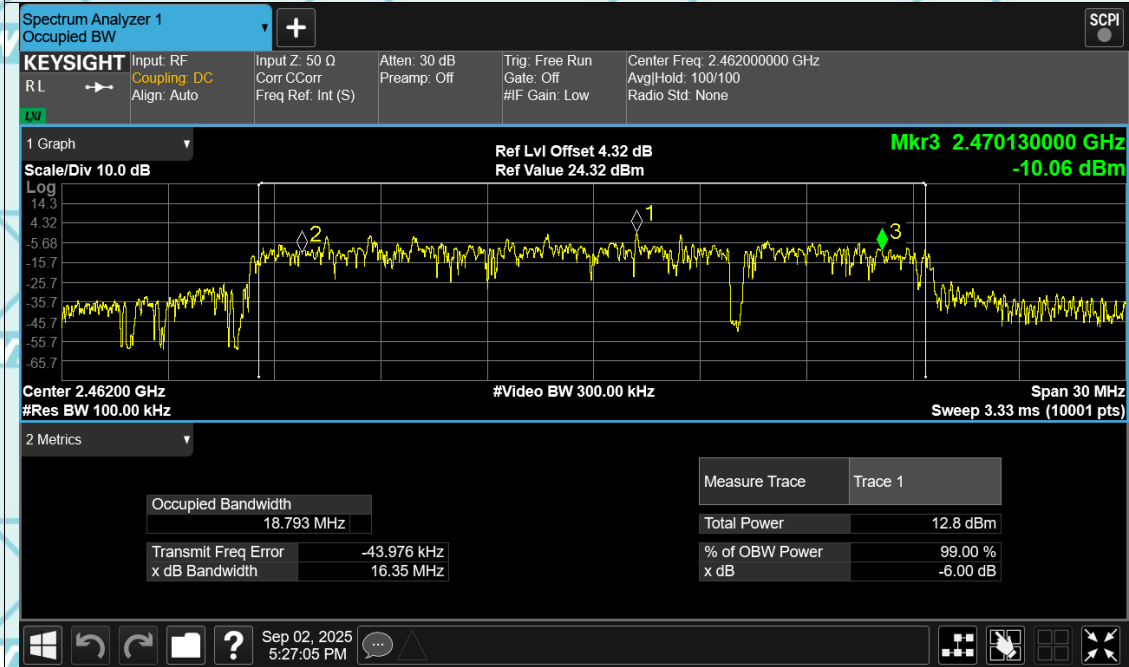




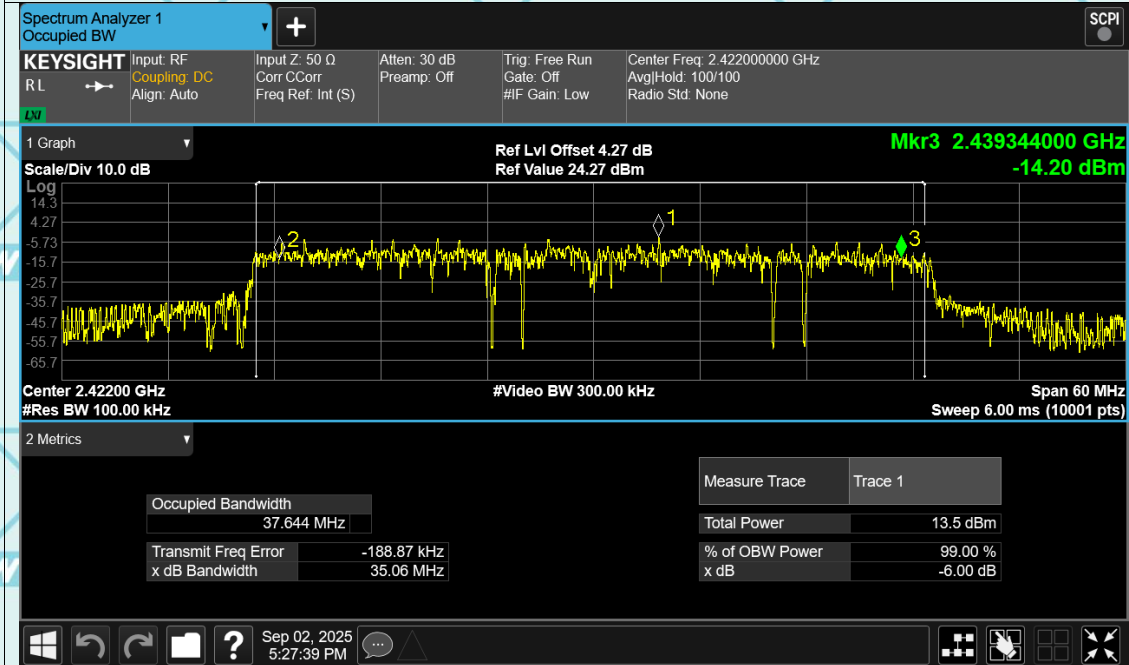


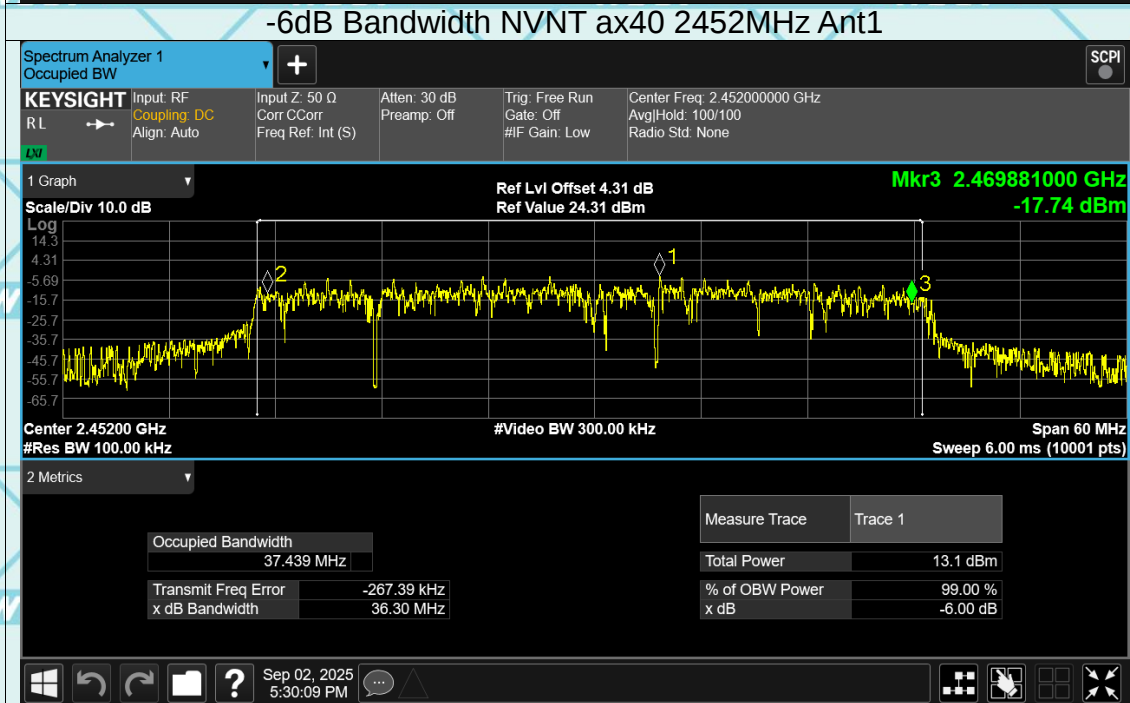
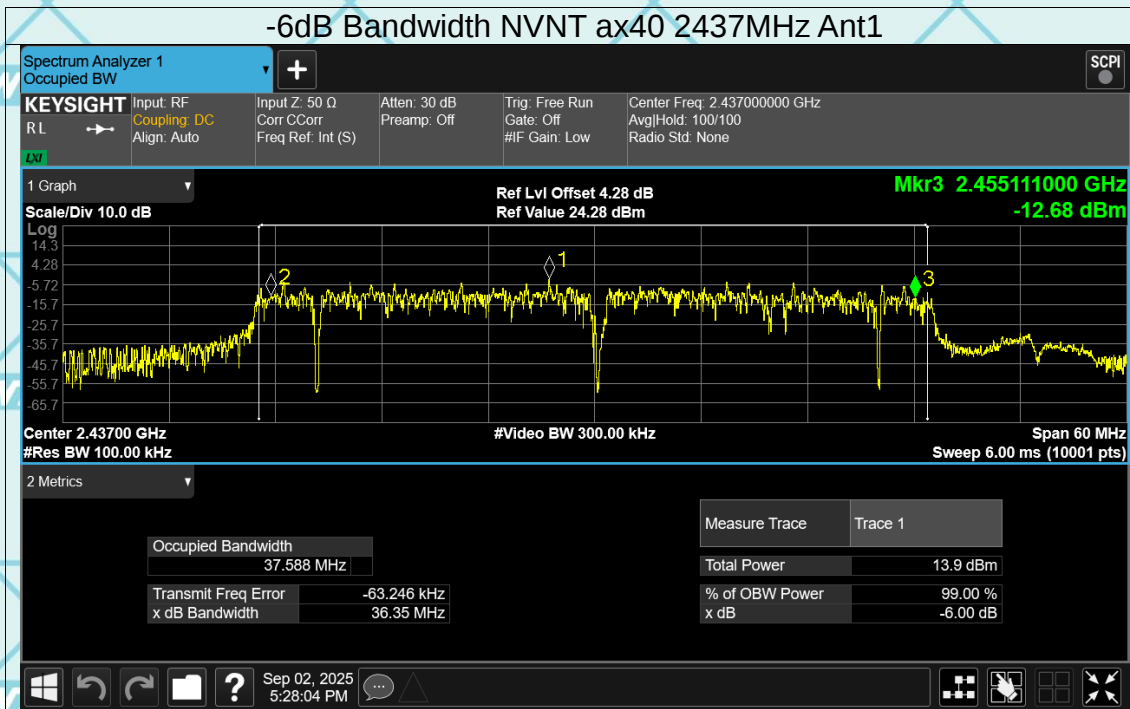


-6dB Bandwidth NVNT ax20 2462MHz Ant1



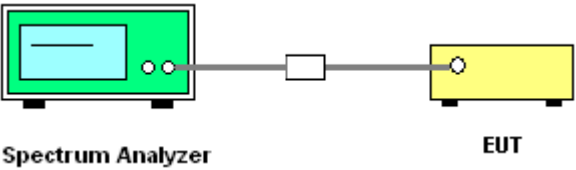
-6dB Bandwidth NVNT ax40 2422MHz Ant1





6.5. Power Spectral Density

6.5.1. Test Specification

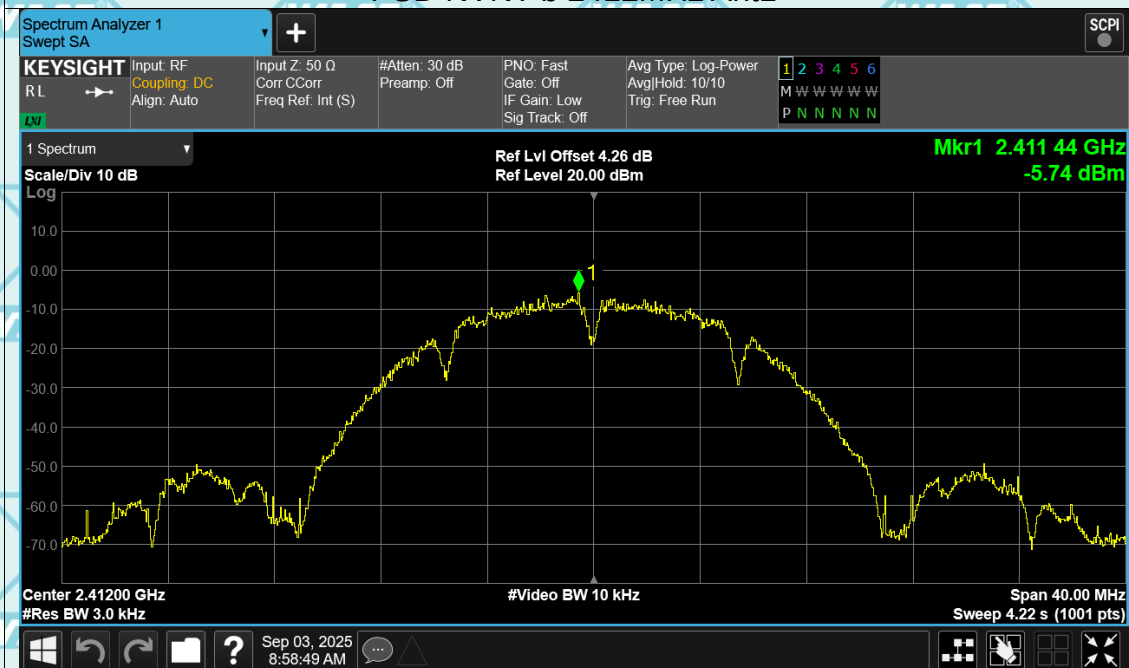
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2020
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02. 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): $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. Video bandwidth VBW $\geq 3 \times \text{RBW}$. 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

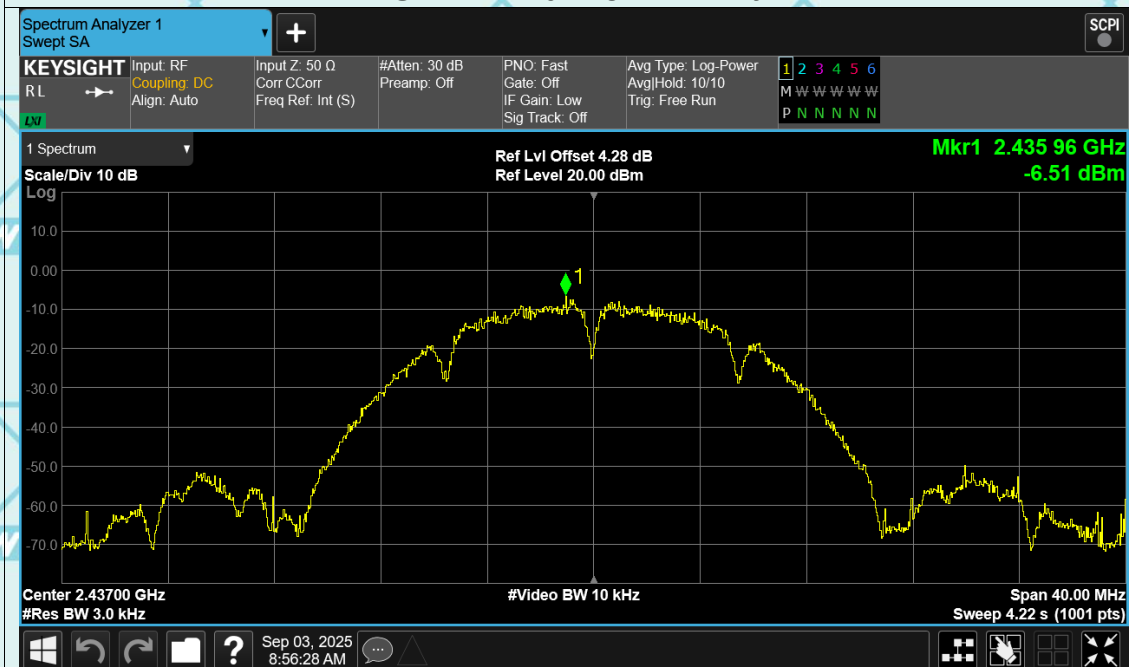
Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
b	2412	-5.74	8	Pass
b	2437	-6.51	8	Pass
b	2462	-6.02	8	Pass
g	2412	-7.78	8	Pass
g	2437	-8.06	8	Pass
g	2462	-8.34	8	Pass
n20	2412	-7.33	8	Pass
n20	2437	-7.11	8	Pass
n20	2462	-9.04	8	Pass
n40	2422	-11.67	8	Pass
n40	2437	-11.27	8	Pass
n40	2452	-11.33	8	Pass
ax20	2412	-16.29	8	Pass
ax20	2437	-16.04	8	Pass
ax20	2462	-16.56	8	Pass
ax40	2422	-18.91	8	Pass
ax40	2437	-18.43	8	Pass
ax40	2452	-20.04	8	Pass

Test Graphs

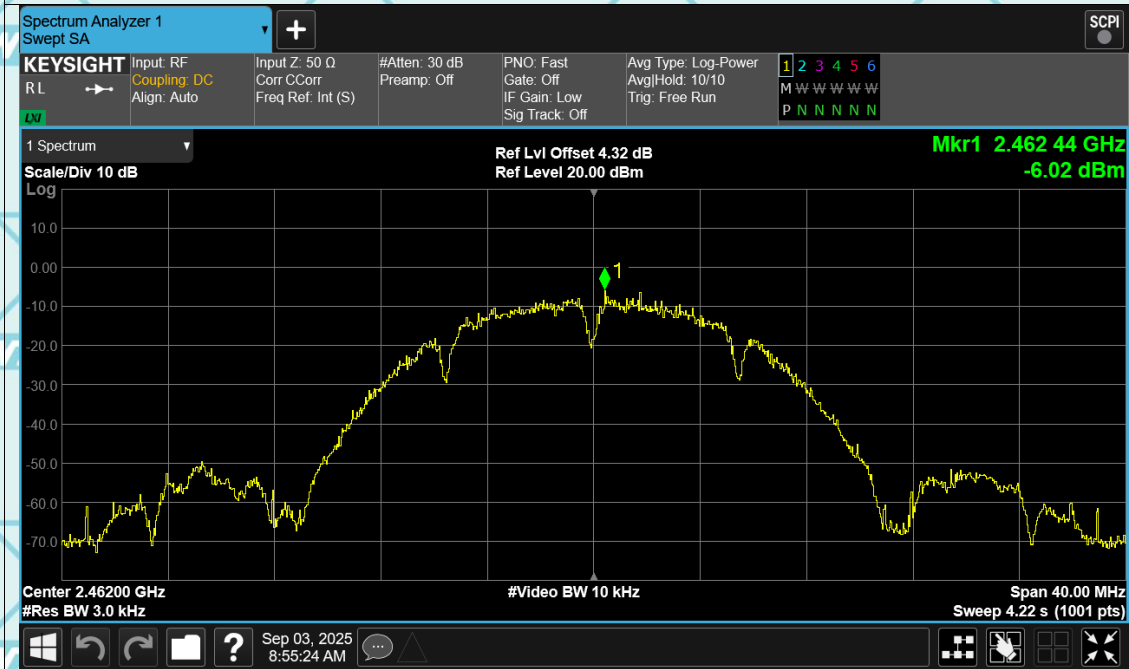
PSD NVNT b 2412MHz Ant1



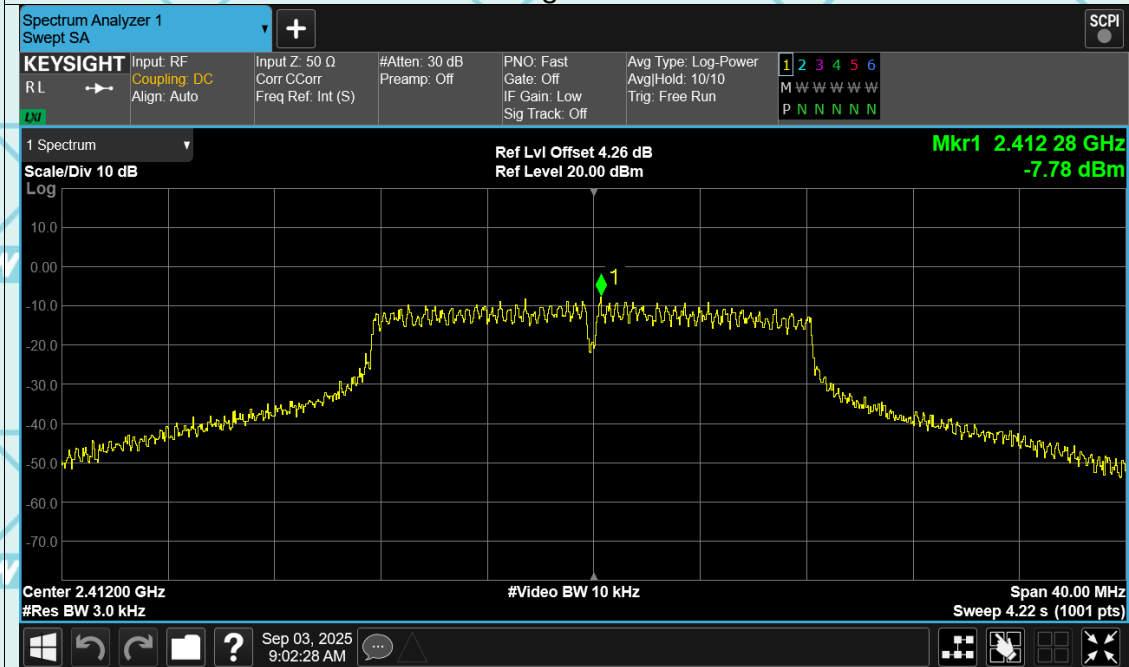
PSD NVNT b 2437MHz Ant1



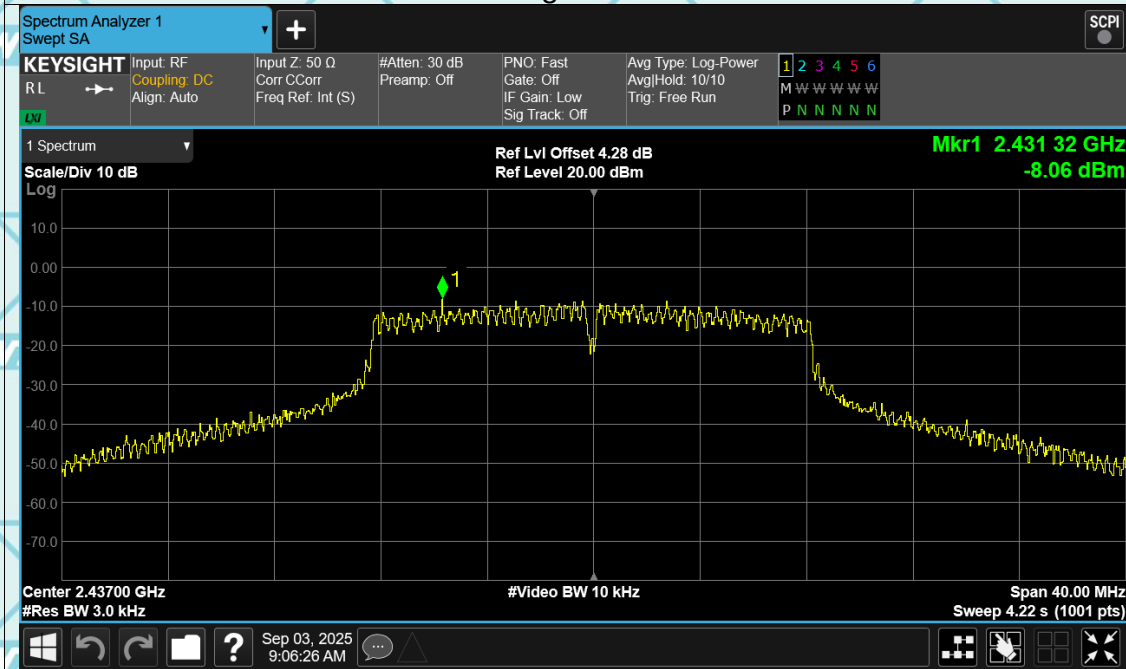
PSD NVNT b 2462MHz Ant1



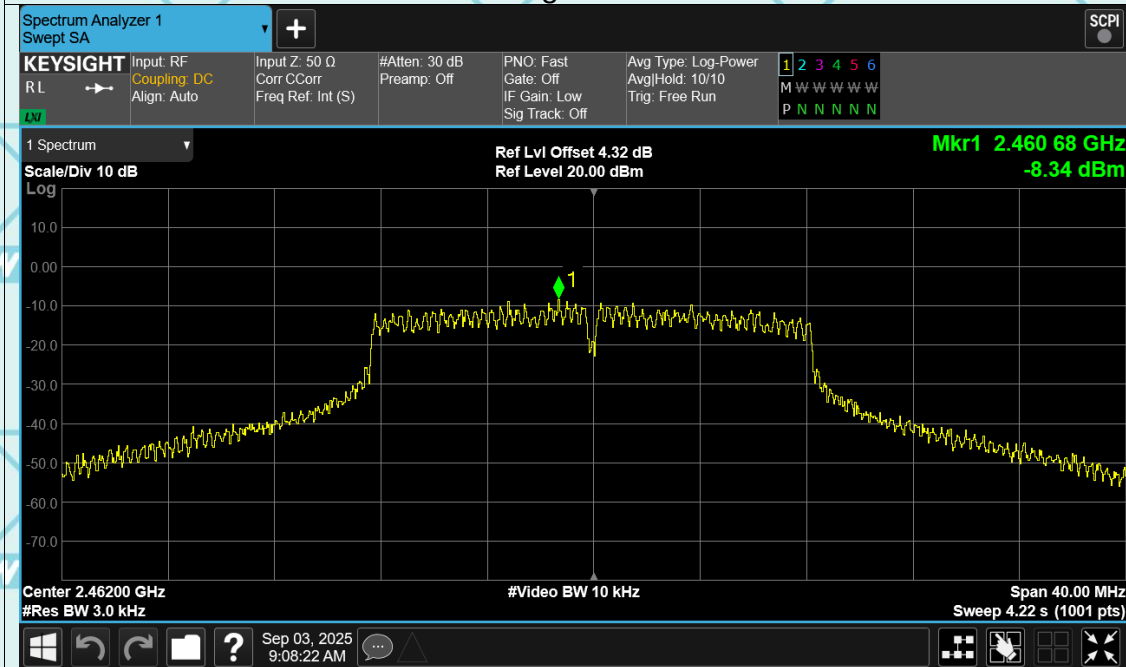
PSD NVNT g 2412MHz Ant1



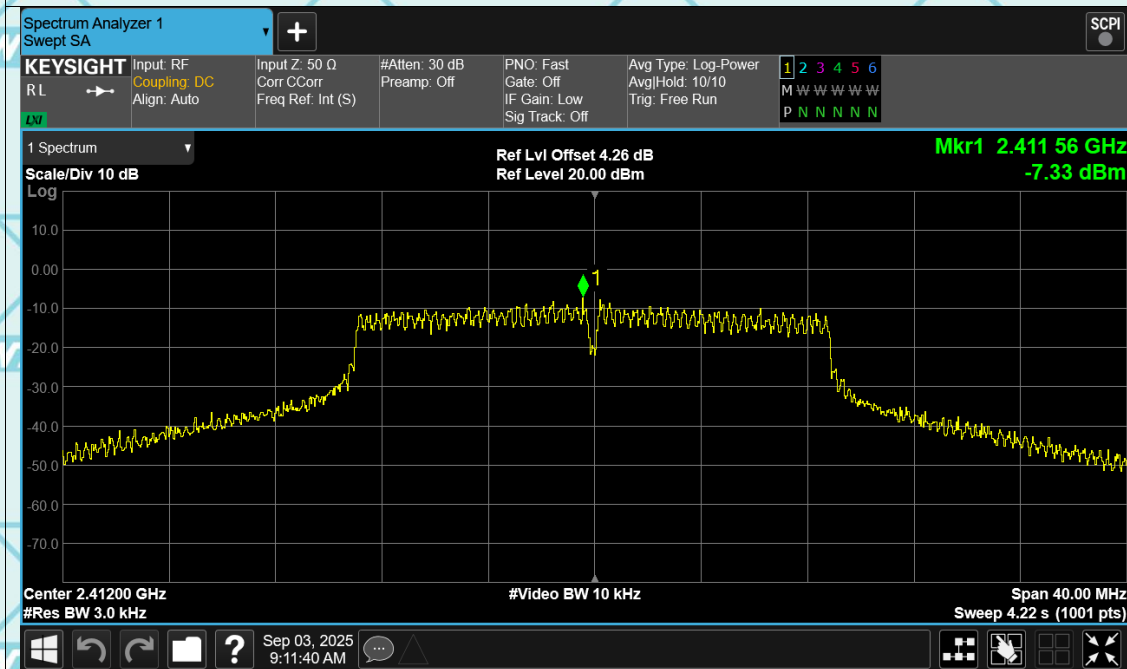
PSD NVNT g 2437MHz Ant1



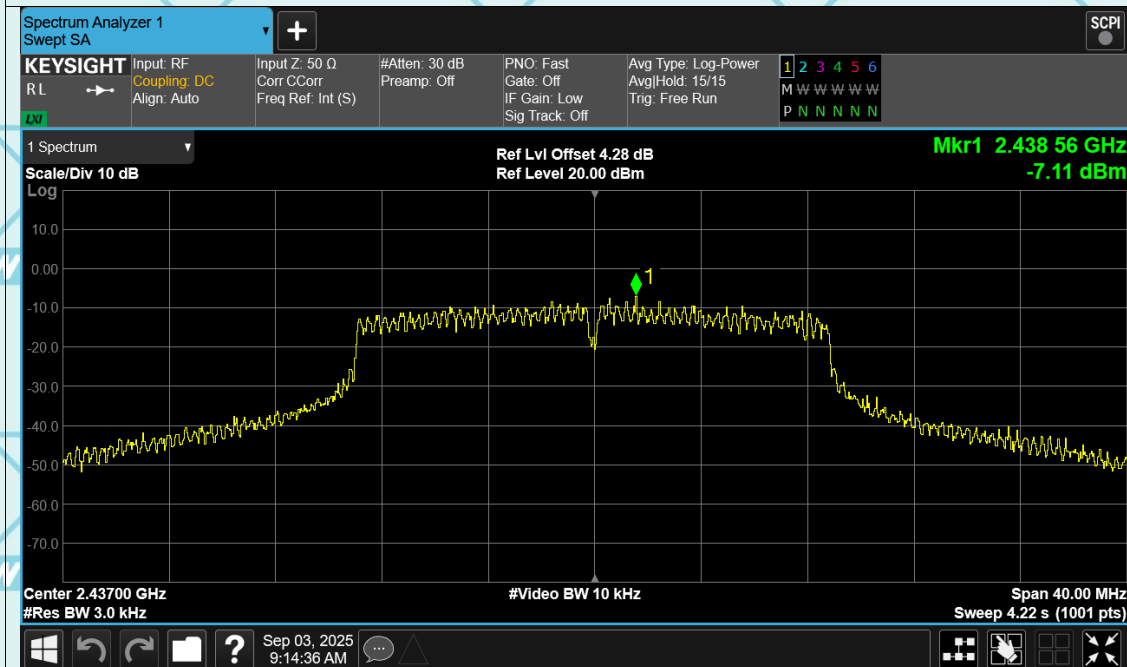
PSD NVNT g 2462MHz Ant1



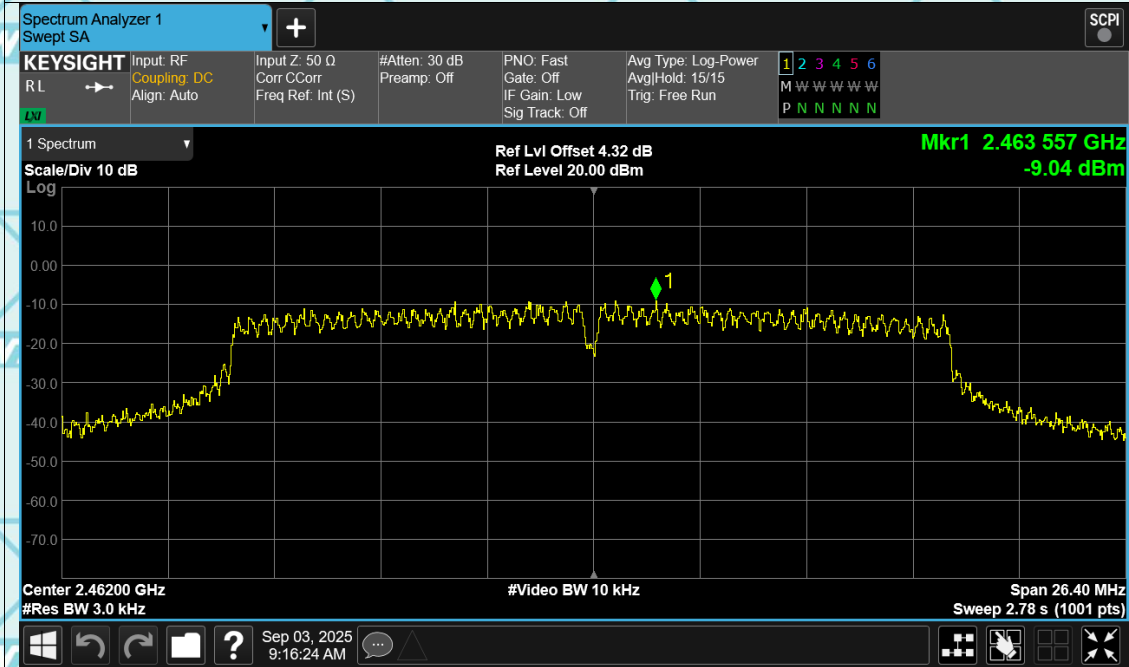
PSD NVNT n20 2412MHz Ant1



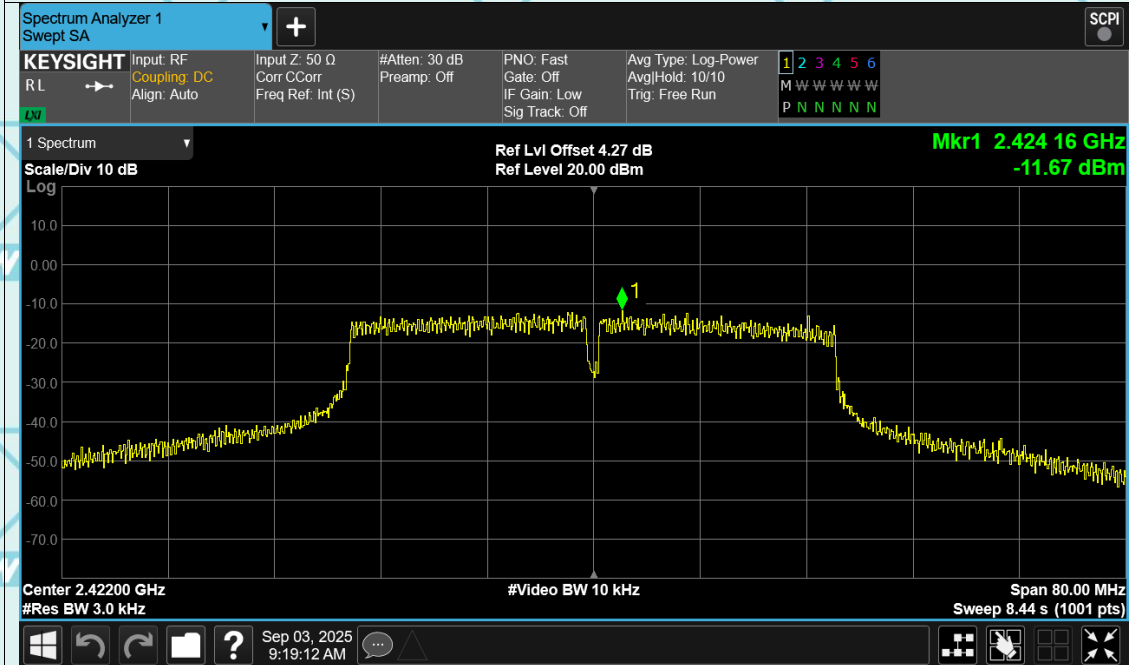
PSD NVNT n20 2437MHz Ant1



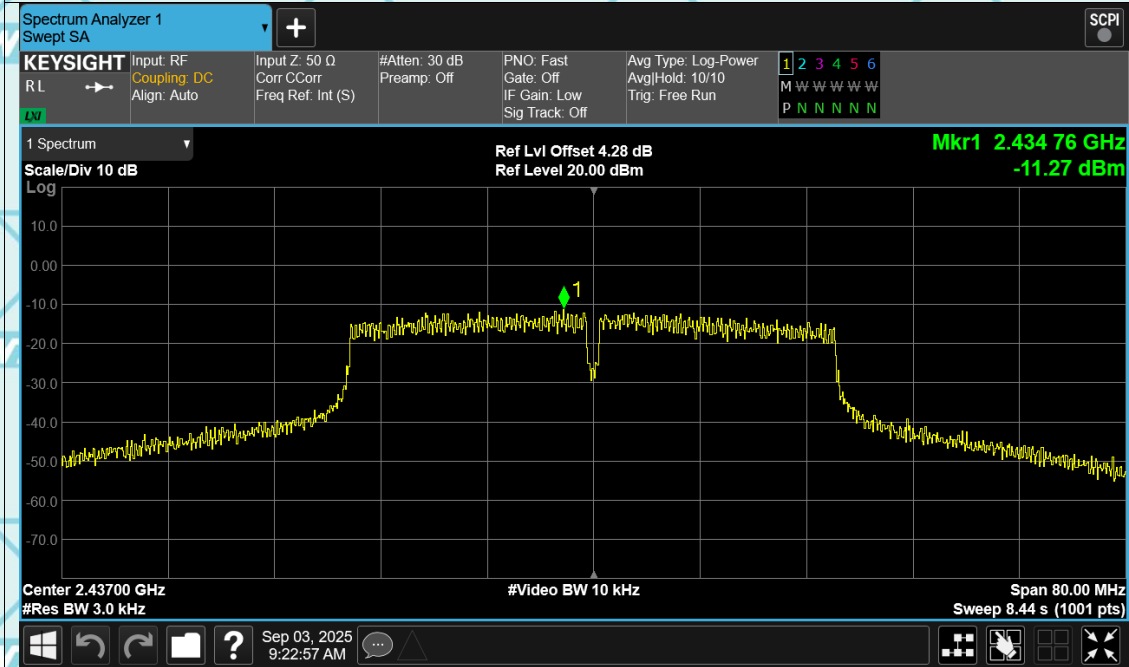
PSD NVNT n20 2462MHz Ant1



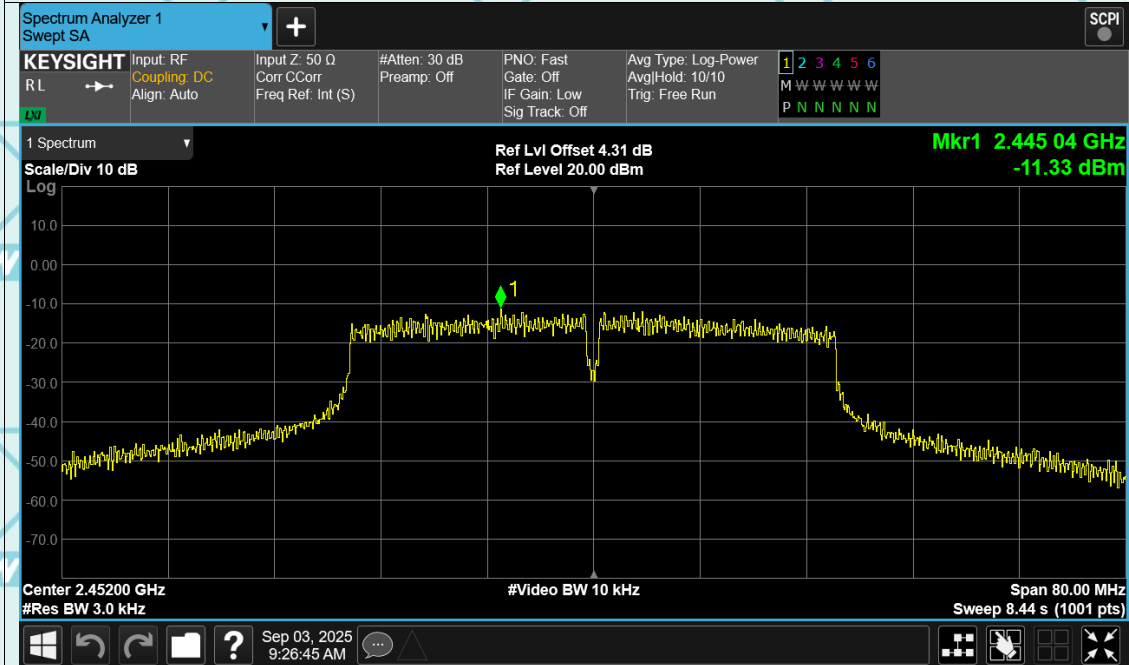
PSD NVNT n40 2422MHz Ant1



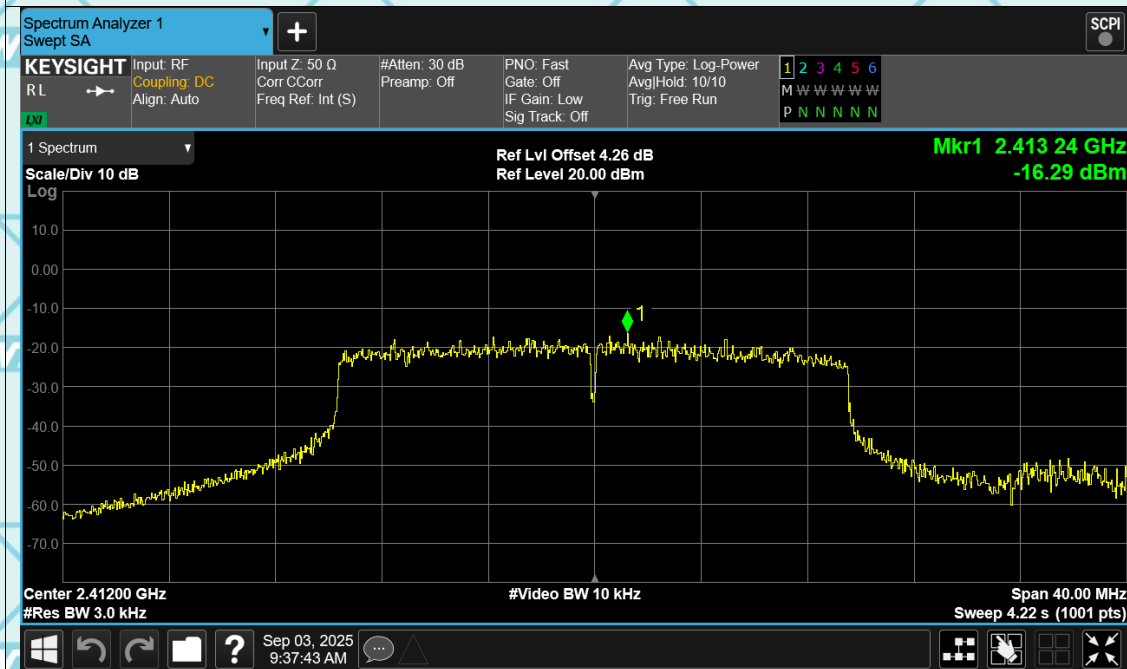
PSD NVNT n40 2437MHz Ant1



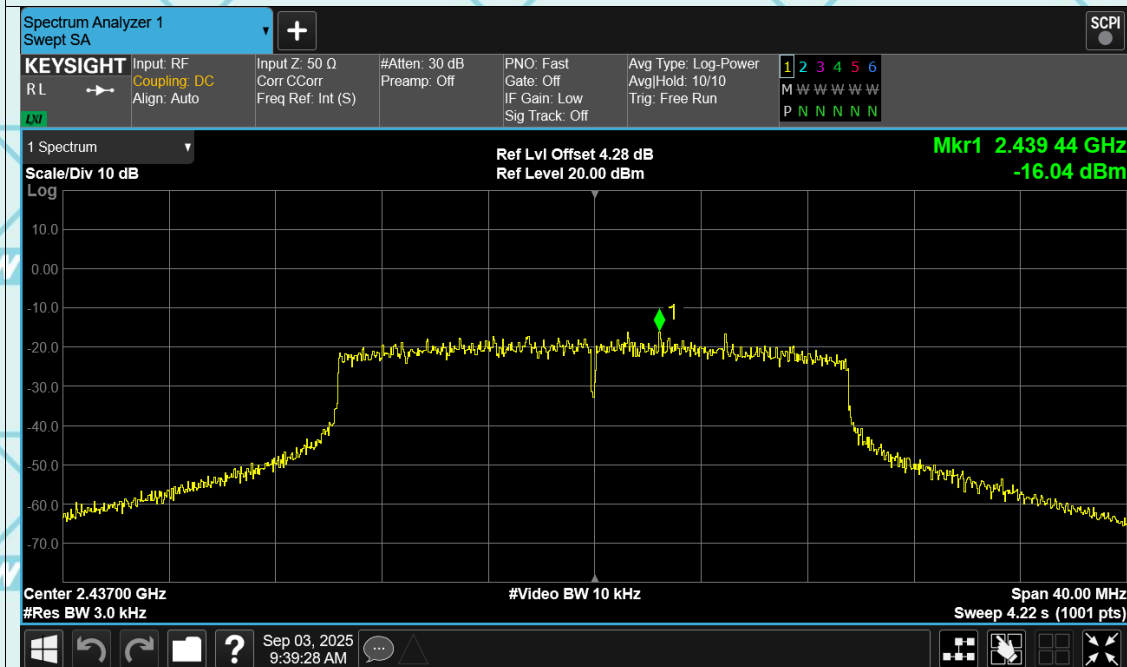
PSD NVNT n40 2452MHz Ant1



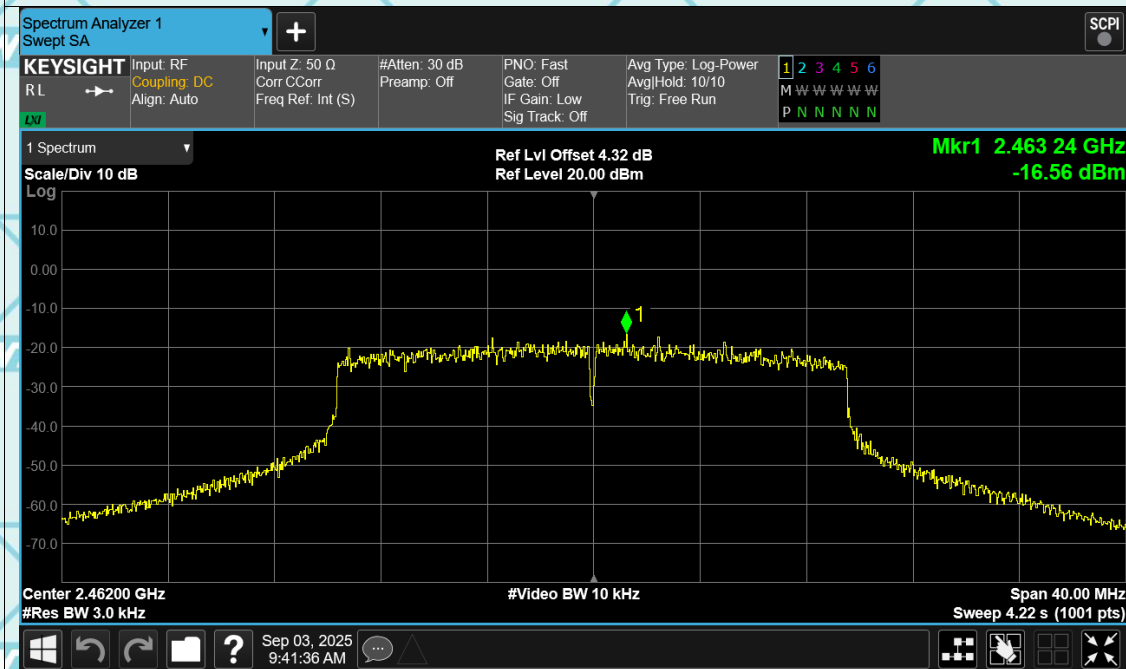
PSD NVNT ax20 2412MHz Ant1



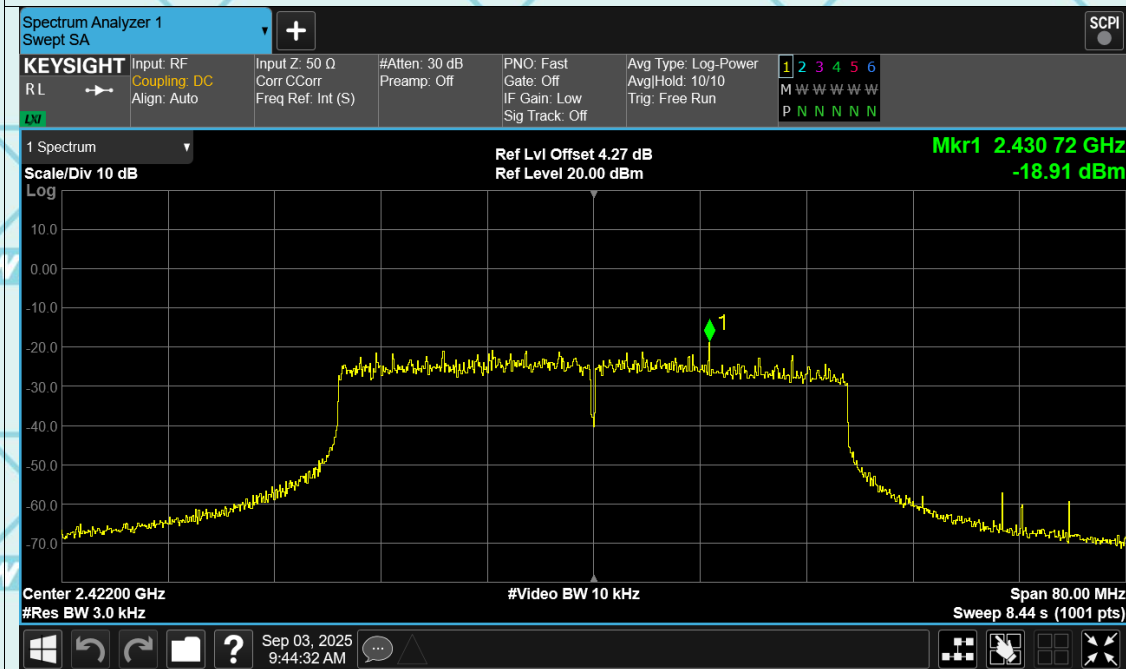
PSD NVNT ax20 2437MHz Ant1



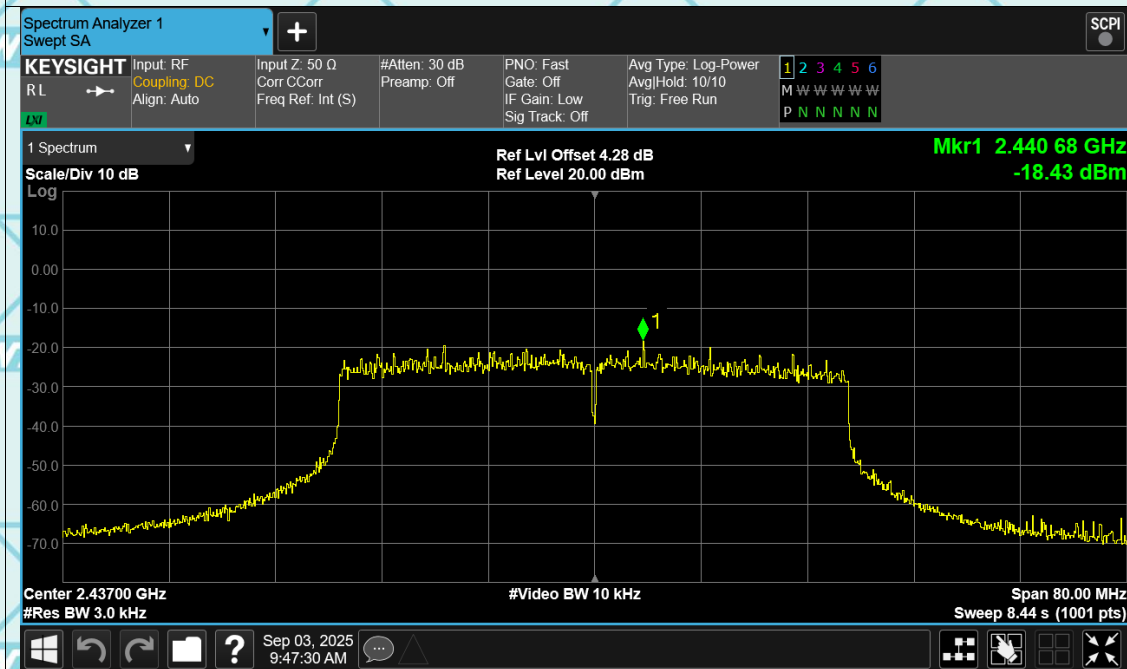
PSD NVNT ax20 2462MHz Ant1



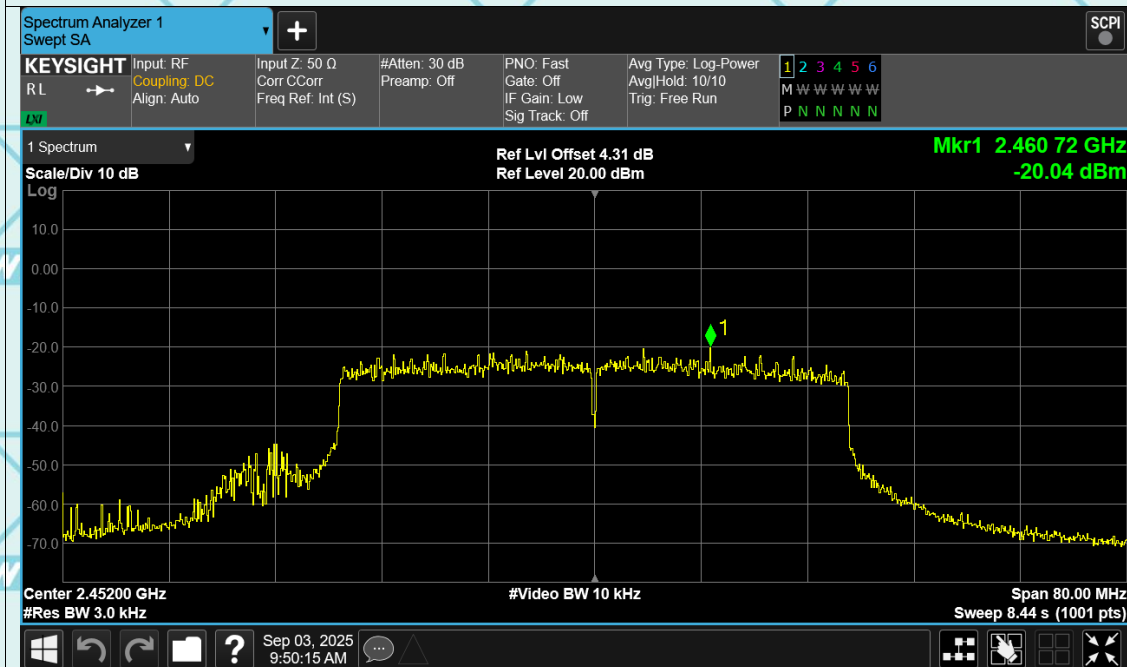
PSD NVNT ax40 2422MHz Ant1



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:	ANSI C63.10:2020
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:	 The diagram illustrates the test setup. On the left is a green box representing the Spectrum Analyzer. It is connected via a cable to a small white box representing an attenuator. This attenuator is then connected to a yellow box representing the EUT (Equipment Under Test).
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02. 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

6.6.2. Test Data(worst)

Band Edge

