TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2BMR6-K10
Test Report No..... :	TCT250227E015
Date of issue..... :	Mar. 11, 2025
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name..... :	MEGA MULTIMEDIA Al, INC.
Address..... :	6565 Sunset Blvd Ste 402, Los Angeles, California 90028, United States
Manufacturer's name ... :	MEGA MULTIMEDIA Al, INC.
Address..... :	6565 Sunset Blvd Ste 402, Los Angeles, California 90028, United States
Standard(s) ..... :	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2020
Product Name..... :	INDOOR CAMERA
Trade Mark ..... :	Alaga
Model/Type reference..... :	K10, K30, K50, A-CW1303B, A-CW1303B-H, CW1303B
Rating(s) ..... :	Input: DC 5 V, 1 A Adapter Information 1/2: MODEL: BS05A-0501000US INPUT: AC 100-240 V, 50/60 Hz, 0.25 A Max OUTPUT: DC 5 V, 1000 mA
Date of receipt of test item ..... :	Feb. 27, 2025
Date (s) of performance of test..... :	Feb. 27, 2025 ~ Mar. 11, 2025
Tested by (+signature) ... :	Aaron MO
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin

General disclaimer:

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Table of Contents

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

1. General Product Information

1.1. EUT description

Product Name.....:	INDOOR CAMERA
Model/Type reference.....:	K10
Sample Number.....:	TCT250227E014-0101
Operation Frequency.....:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)/802.11ax(HE20)) 2422MHz~2452MHz (802.11n(HT40)/802.11ax(HE40))
Channel Separation.....:	5MHz
Number of Channel.....:	11 for 802.11b/802.11g/802.11n(HT20)/802.11ax(HE20) 7 for 802.11n(HT40)/802.11ax(HE40)
Modulation Technology.....:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM)
Data speed.....:	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps 802.11n: Up to 150Mbps
Antenna Type.....:	Chip Antenna
Antenna Gain.....:	1.04dBi
Rating(s).....:	Input: DC 5 V, 1 A Adapter Information 1/2: MODEL: BS05A-0501000US INPUT: AC 100-240 V, 50/60 Hz, 0.25 A Max OUTPUT: DC 5 V, 1000 mA

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	K10	☒
Other models	K30, K50, A-CW1303B, A-CW1303B-H, CW1303B	☐

Note: K10 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names, image pixel and product appearance color. So the test data of K10 can represent the remaining models.

1.3. Operation Frequency

For 802.11b/g/n(HT20)/ax(HE20)

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	--	--

For 802.11n (HT40)/ax(HE40)

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/802.11g/802.11n (HT20)/802.11ax (HE20)

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

802.11n (HT40)/802.11ax (HE40)

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

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 Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	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.

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3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	24.3 °C	24.3 °C
Humidity:	51 % RH	50 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	SSCOM	
Power Level:	9	
Test Mode:		
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with max duty cycle.	

The sample was placed 0.8m & 1.5m for the measurement below & 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(Z axis) are shown in Test Results of the following pages.

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	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13.5Mbps
802.11ax(HE20)	6.5Mbps
802.11ax(HE40)	13.5Mbps

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3.2. 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
/	/	/	/	/

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.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

● FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

●IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

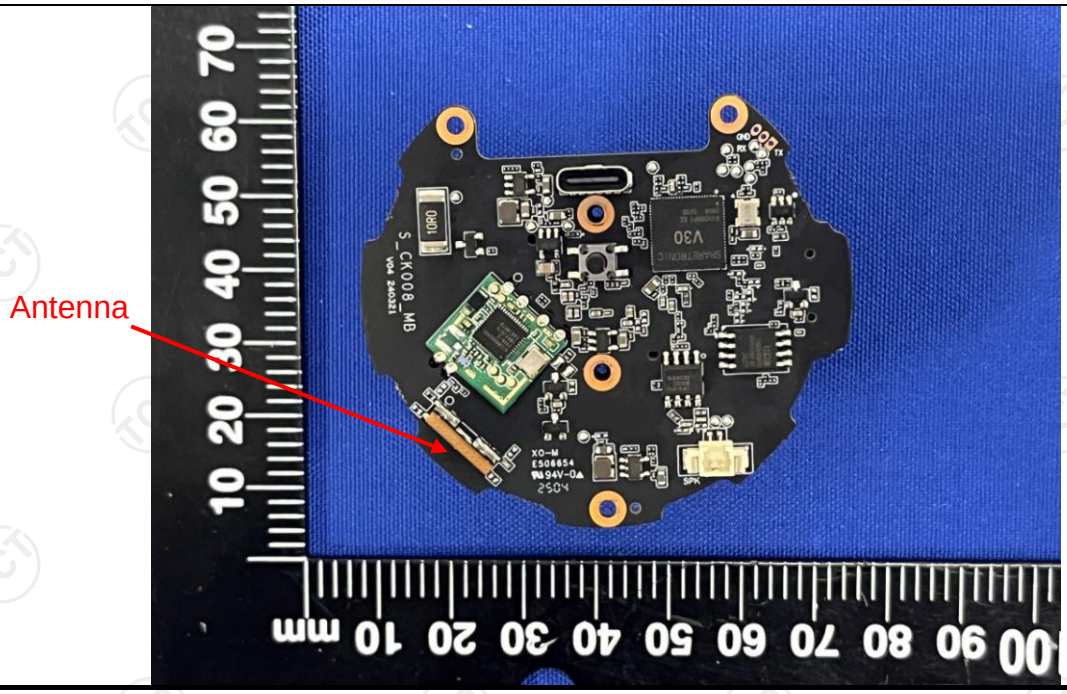
The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

5.1. 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 WIFI antenna is chip antenna which permanently attached, and the best case gain of the antenna is 1.04dBi.	



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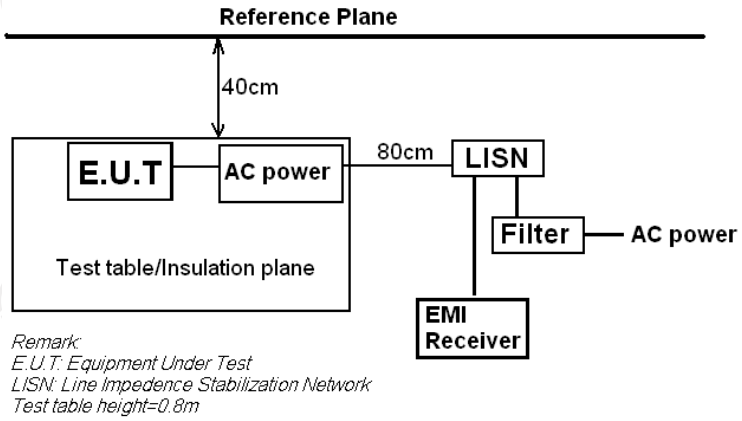
5.2. Conducted Emission

5.2.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2020</td></tr>
<tr><td>Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz, Sweep time=auto</td></tr>
<tr><td>Limits:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></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>
</td></tr>
<tr><td>Test Setup:</td><td> 

Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m</td></tr>
<tr><td>Test Mode:</td><td>Transmitting Mode</td></tr>
<tr><td>Test Procedure:</td><td>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.</td></tr>
<tr><td>Test Result:</td><td>PASS</td></tr>
</table>

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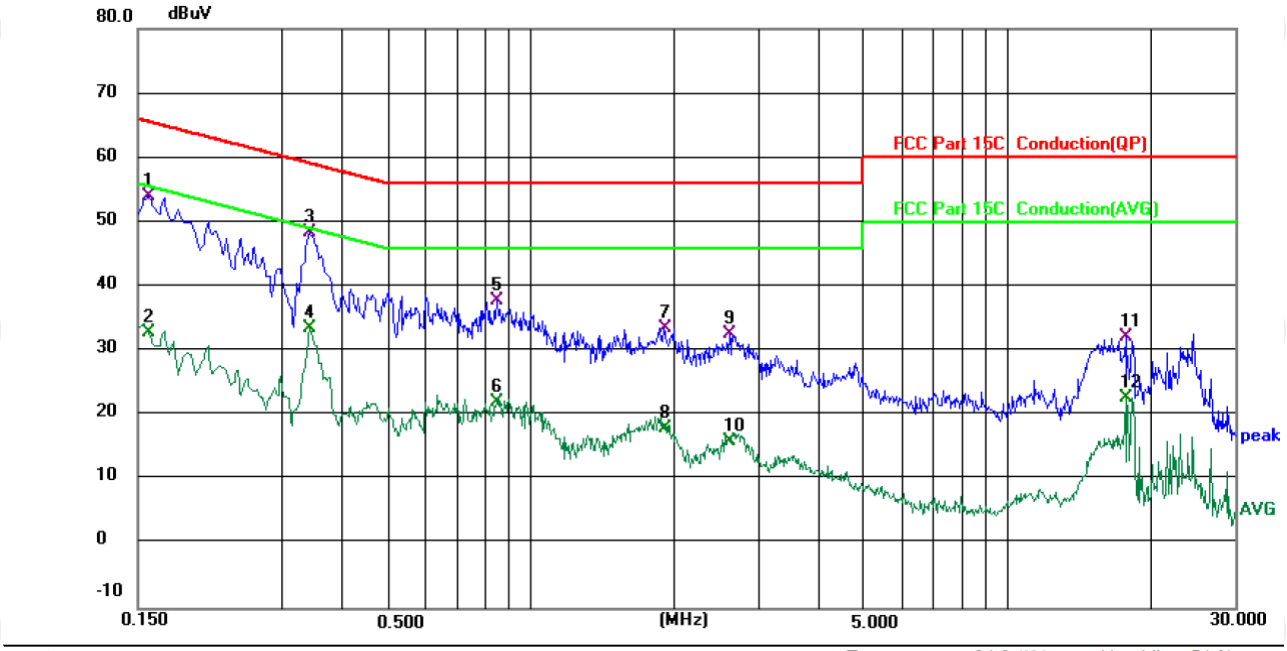
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Date of Cal.**	**Due Date**
EMI Test Receiver	R&S	ESCI3	100898	Jun. 27, 2024	Jun. 26, 2025
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 21, 2025	Jan. 20, 2026
Attenuator	N/A	10dB	164080	Jun. 27, 2024	Jun. 26, 2025
Line-5	TCT	CE-05	/	Jun. 27, 2024	Jun. 26, 2025
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	/	/

5.2.3. Test data

Please refer to following diagram for individual

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



Site 844 Shielding Room | Phase: *L1* | Temperature: 24.3 (℃) | Humidity: 51 %

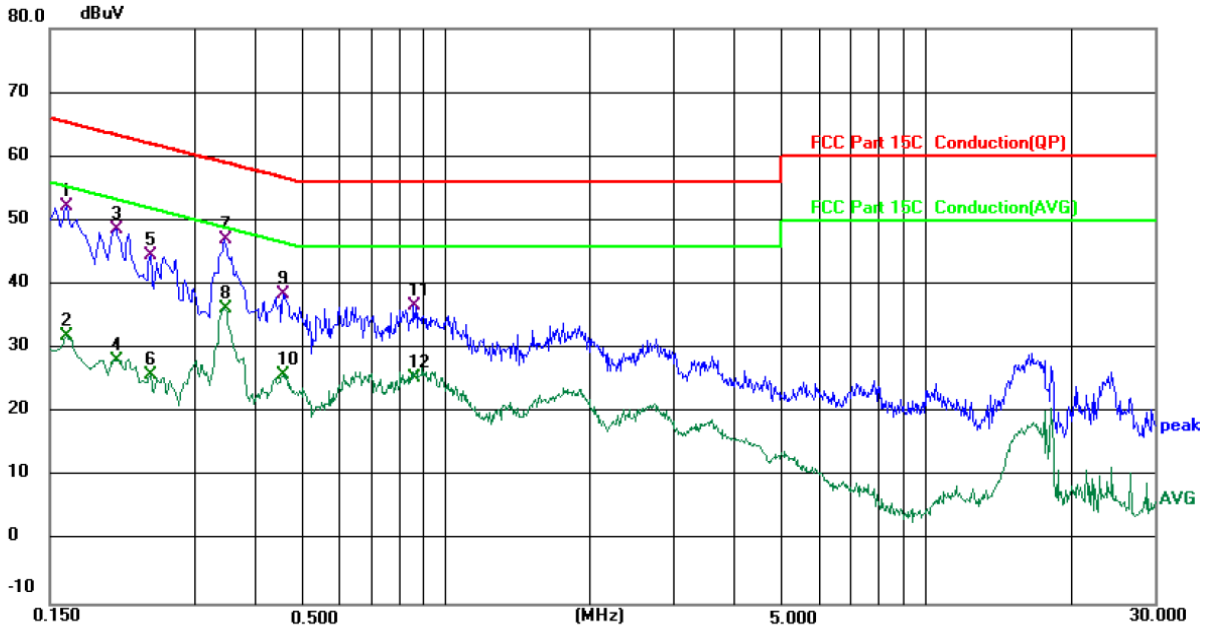
Limit: FCC Part 15C Conduction(QP) | Power: AC 120 V/ 60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	44.16	9.95	54.11	65.57	-11.46	QP	
2		0.1580	22.84	9.95	32.79	55.57	-22.78	AVG	
3	*	0.3420	38.48	9.93	48.41	59.15	-10.74	QP	
4		0.3420	23.64	9.93	33.57	49.15	-15.58	AVG	
5		0.8500	27.80	9.92	37.72	56.00	-18.28	QP	
6		0.8500	12.13	9.92	22.05	46.00	-23.95	AVG	
7		1.9059	23.64	10.00	33.64	56.00	-22.36	QP	
8		1.9059	7.98	10.00	17.98	46.00	-28.02	AVG	
9		2.6099	22.63	10.05	32.68	56.00	-23.32	QP	
10		2.6099	5.99	10.05	16.04	46.00	-29.96	AVG	
11		17.6939	21.57	10.54	32.11	60.00	-27.89	QP	
12		17.6939	12.25	10.54	22.79	50.00	-27.21	AVG	

Note:

Freq. = Emission frequency in MHz
Reading level (dBµV) = Receiver reading
Corr. Factor (dB) = LISN 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.*

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



Site 844 Shielding Room
Phase: *N*
Temperature: 24.3 (℃)
Humidity: 51 %

Limit: FCC Part 15C Conduction(QP)
Power: AC 120 V/ 60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	42.30	9.94	52.24	65.36	-13.12	QP	
2		0.1620	21.96	9.94	31.90	55.36	-23.46	AVG	
3		0.2059	38.74	9.93	48.67	63.37	-14.70	QP	
4		0.2059	18.16	9.93	28.09	53.37	-25.28	AVG	
5		0.2419	34.73	9.93	44.66	62.03	-17.37	QP	
6		0.2419	15.90	9.93	25.83	52.03	-26.20	AVG	
7	*	0.3459	37.10	9.93	47.03	59.06	-12.03	QP	
8		0.3459	26.29	9.93	36.22	49.06	-12.84	AVG	
9		0.4580	28.56	9.93	38.49	56.73	-18.24	QP	
10		0.4580	15.99	9.93	25.92	46.73	-20.81	AVG	
11		0.8579	26.71	9.96	36.67	56.00	-19.33	QP	
12		0.8579	15.47	9.96	25.43	46.00	-20.57	AVG	

Note:

1. Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN 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.*

2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11b, 802.11g, 802.11n(HT20), 802.11ax(HE20), 802.11n(HT40), 802.11ax(HE40)), and the worst case Mode (Highest channel and 802.11b) was submitted only.

5.3. Maximum Conducted (Average) Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	30dBm
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Measure the conducted output power and record the results in the test report.
Test Result:	PASS

5.3.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/

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5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	>500kHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set to the maximum power setting and enable the EUT transmit continuously. 2. 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. 3. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.5. Power Spectral Density

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 v05r02
Limit:	The peak 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 RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. 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): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. 4. Detector = RMS, Sweep time = auto couple. 5. 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

5.5.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/

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5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
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 RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. 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). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

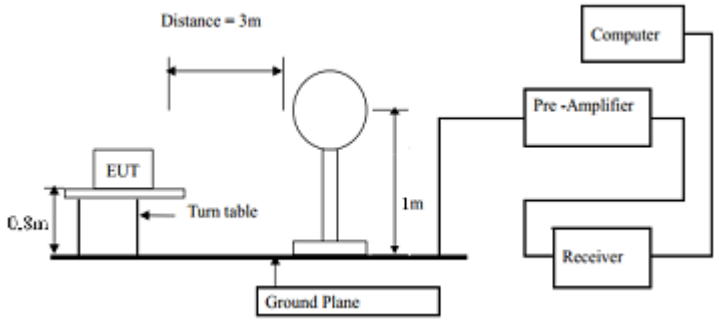
5.6.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/

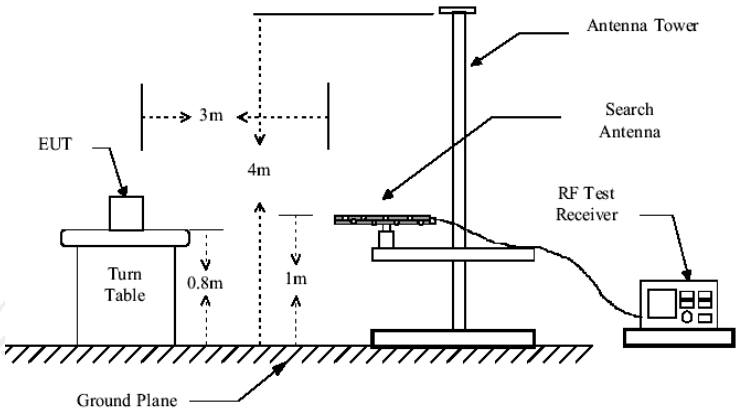
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.7. Radiated Spurious Emission Measurement

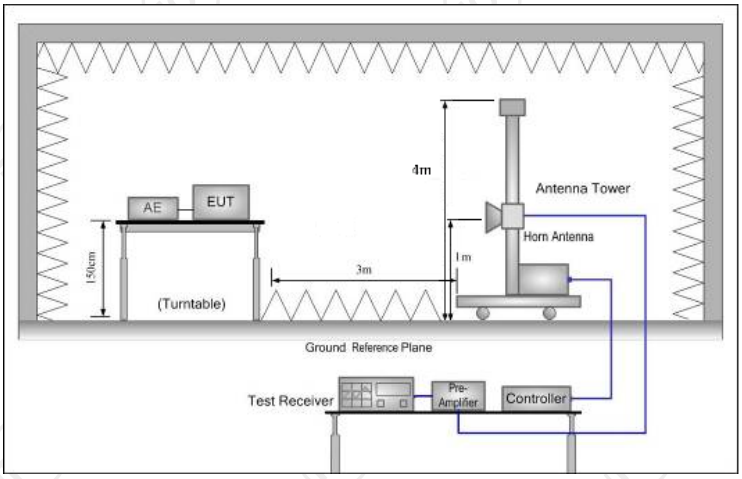
5.7.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2020</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><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></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>120KHz</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><td>Frequency</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance (meters)</td></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><td>Frequency</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance (meters)</td><td>Detector</td></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>
</table>



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=120 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

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.7.2. Test Instruments

Radiated Emission Test Site (966)					
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Date of Cal.**	**Due Date**
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2024	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024	Jun. 26, 2025
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 27, 2024	Jun. 26, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 23, 2025	Jan. 22, 2026
Coaxial cable	SKET	RE-03-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 27, 2024	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/	/
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	/	/

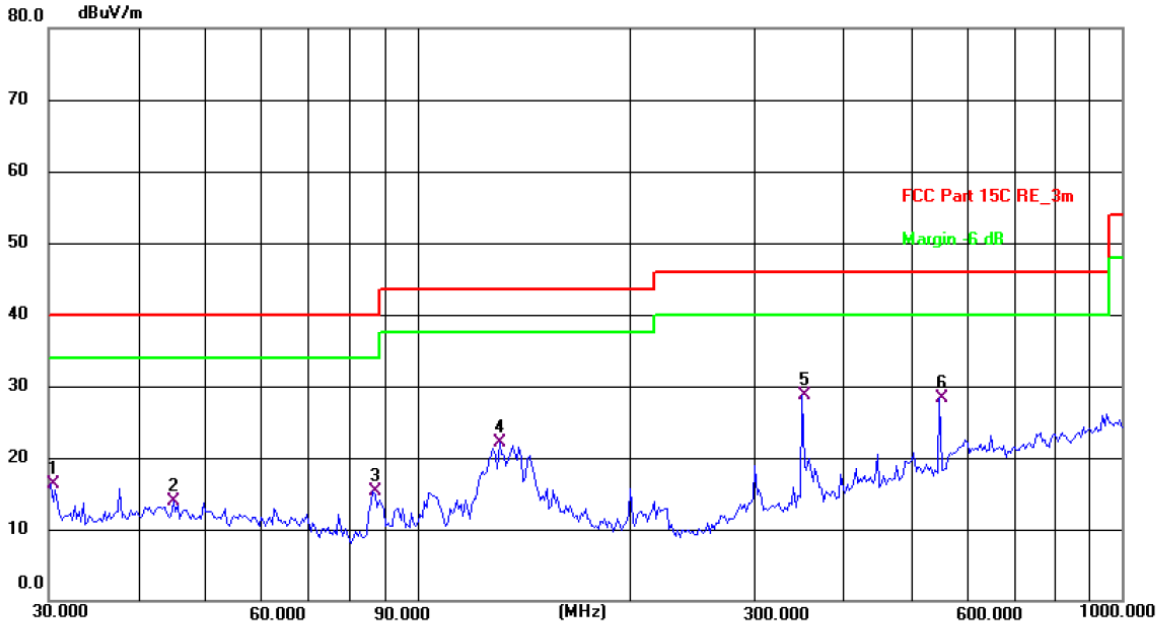
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:

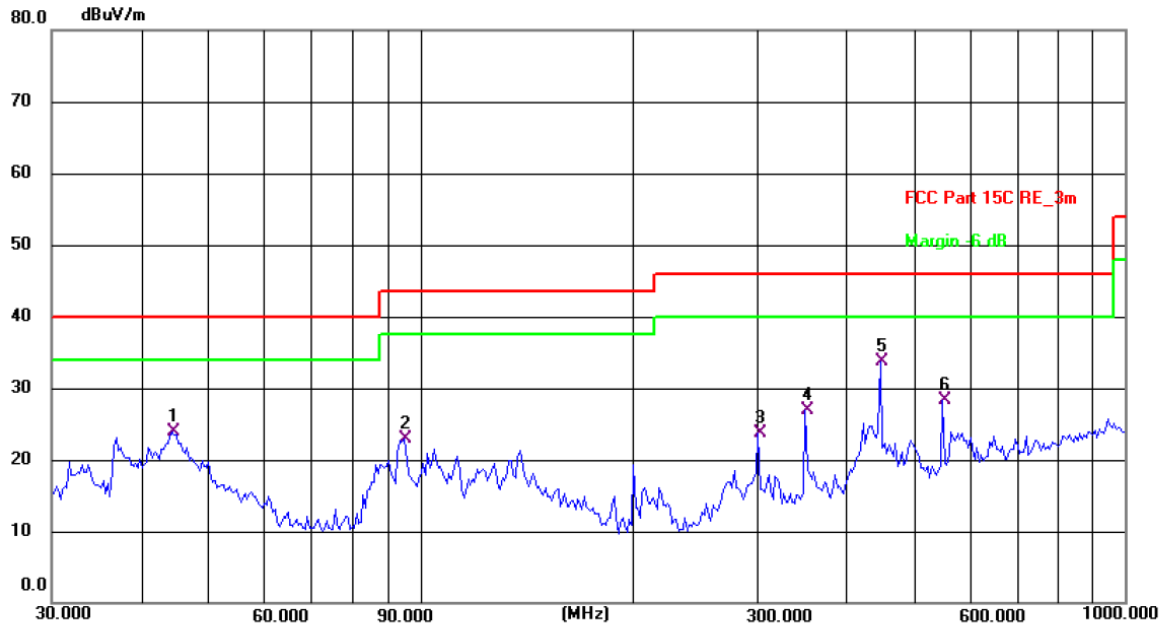


Site: 3m Anechoic Chamber1 Polarization: ***Horizontal*** Temperature: 24.3(C) Humidity: 50 %

Limit: FCC Part 15C RE_3m Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.2111	29.24	-12.88	16.36	40.00	-23.64	QP	P	
2	45.0583	26.12	-12.30	13.82	40.00	-26.18	QP	P	
3	86.5029	31.90	-16.55	15.35	40.00	-24.65	QP	P	
4	130.8369	34.68	-12.53	22.15	43.50	-21.35	QP	P	
5 *	351.7079	38.85	-10.12	28.73	46.00	-17.27	QP	P	
6	550.9480	34.89	-6.65	28.24	46.00	-17.76	QP	P	

Vertical:



Site: 3m Anechoic Chamber1 Polarization: ***Vertical*** Temperature: 24.3(C) Humidity: 50 %

Limit: FCC Part 15C RE_3m Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	44.4308	36.14	-12.30	23.84	40.00	-16.16	QP	P	
2	94.7601	38.99	-16.05	22.94	43.50	-20.56	QP	P	
3	301.4224	34.70	-10.95	23.75	46.00	-22.25	QP	P	
4	351.7079	37.11	-10.12	26.99	46.00	-19.01	QP	P	
5 *	449.5558	41.95	-8.30	33.65	46.00	-12.35	QP	P	
6	550.9480	35.04	-6.65	28.39	46.00	-17.61	QP	P	

Note: *1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported*

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11ax(HE20), 802.11n(HT40), 802.11ax(HE40)), and the worst case Mode (Highest channel and 802.11b) was submitted only.

3. Freq. = Emission frequency in MHz

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

Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Limit (dBμV/m) = Limit stated in standard

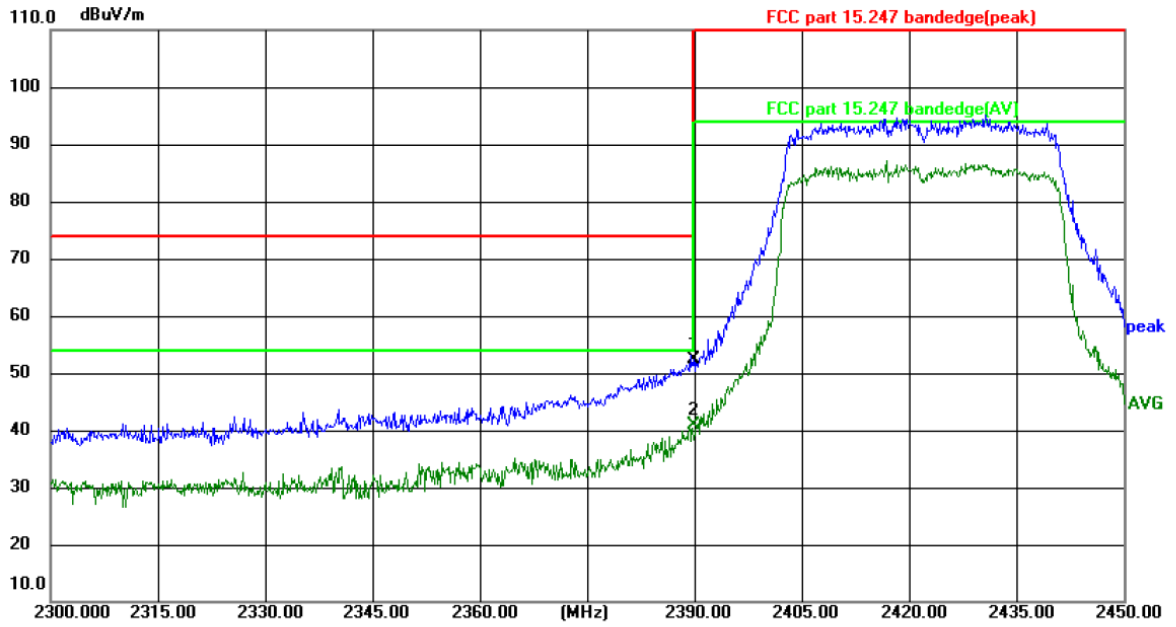
Margin (dB) = Measurement (dBμV/m) – Limits (dBμV/m)

** is meaning the worst frequency has been tested in the test frequency range.*

Test Result of Radiated Spurious at Band edges

Lowest channel 2422:

Horizontal:

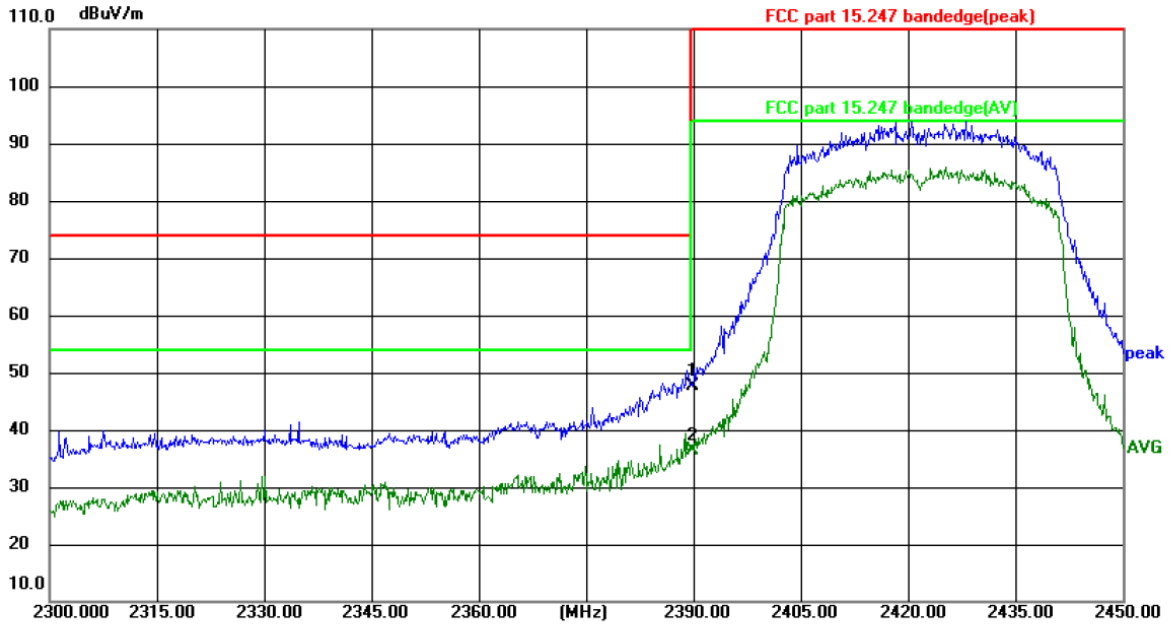


Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 23.1(℃) Humidity: 44 %

Limit: FCC part 15.247 bandedge(peak) Power:AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	69.02	-16.70	52.32	74.00	-21.68	peak	P	
2 *	2390.000	57.53	-16.70	40.83	54.00	-13.17	AVG	P	

Vertical:



Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.1(℃) Humidity: 44 %

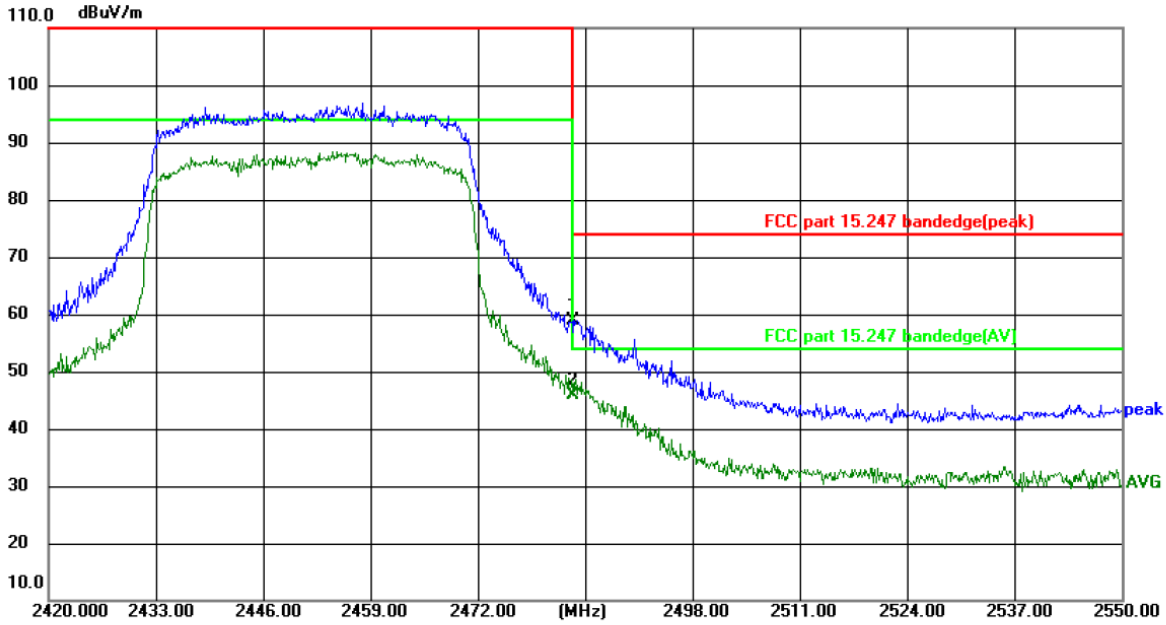
Limit: FCC part 15.247 bandedge(peak) Power:AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	64.44	-16.70	47.74	74.00	-26.26	peak	P	
2 *	2390.000	53.14	-16.70	36.44	54.00	-17.56	AVG	P	

Note: *Measurements were conducted in all two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20), 802.11ax(HE20), 802.11n(HT40), 802.11ax(HE40)), and the worst case Mode 802.11ax(HE40)) was submitted only.*

Highest channel 2452:

Horizontal:

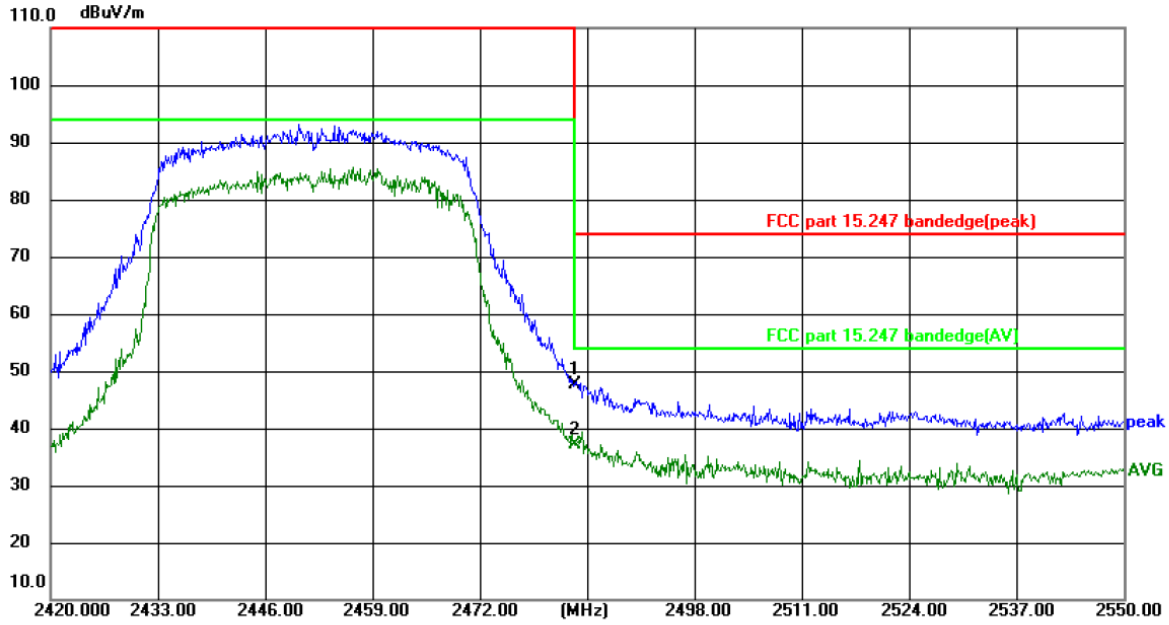


Site: 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 23.1(℃) Humidity: 44 %

Limit: FCC part 15.247 bandedge(peak) Power:AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	75.63	-16.65	58.98	74.00	-15.02	peak	P	
2 *	2483.500	62.55	-16.65	45.90	54.00	-8.10	AVG	P	

Vertical:



Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.1(℃) Humidity: 44 %

Limit: FCC part 15.247 bandedge(peak) Power:AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	64.24	-16.65	47.59	74.00	-26.41	peak	P	
2 *	2483.500	53.77	-16.65	37.12	54.00	-16.88	AVG	P	

Note:

1. *Peak Final Emission Level=Peak Reading + Correction Factor;*
2. *Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
3. *Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11ax(HE20), 802.11n(HT40), 802.11ax(HE40)), and the worst case Mode 802.11ax(HE40)) was submitted only.*

Above 1GHz

Modulation Type: 802.11b

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4824	H	54.16	---	-9.48	44.68	---	74	54	-9.32
7236	H	45.58	---	-1.34	44.24	---	74	54	-9.76
---	H	---	---	---	---	---	---	---	---
4824	V	54.97	---	-9.48	45.49	---	74	54	-8.51
7236	V	46.30	---	-1.34	44.96	---	74	54	-9.04
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4874	H	55.28	---	-9.37	45.91	---	74	54	-8.09
7311	H	46.69	---	-1.17	45.52	---	74	54	-8.48
---	H	---	---	---	---	---	---	---	---
4874	V	53.12	---	-9.37	43.75	---	74	54	-10.25
7311	V	46.74	---	-1.17	45.57	---	74	54	-8.43
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4924	H	53.58	---	-9.26	44.32	---	74	54	-9.68
7386	H	45.26	---	-1.01	44.25	---	74	54	-9.75
---	H	---	---	---	---	---	---	---	---
4924	V	55.11	---	-9.26	45.85	---	74	54	-8.15
7386	V	46.84	---	-1.01	45.83	---	74	54	-8.17
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *All the restriction bands are compliance with the limit of 15.209.*

Modulation Type: 802.11g

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4824	H	55.03	---	-9.48	45.55	---	74	54	-8.45
7236	H	46.71	---	-1.34	45.37	---	74	54	-8.63
---	H	---	---	---	---	---	---	---	---
4824	V	55.62	---	-9.48	46.14	---	74	54	-7.86
7236	V	47.18	---	-1.34	45.84	---	74	54	-8.16
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4874	H	54.36	---	-9.37	44.99	---	74	54	-9.01
7311	H	47.59	---	-1.17	46.42	---	74	54	-7.58
---	H	---	---	---	---	---	---	---	---
4874	V	54.88	---	-9.37	45.51	---	74	54	-8.49
7311	V	45.34	---	-1.17	44.17	---	74	54	-9.83
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4924	H	53.63	---	-9.26	44.37	---	74	54	-9.63
7386	H	46.07	---	-1.01	45.06	---	74	54	-8.94
---	H	---	---	---	---	---	---	---	---
4924	V	55.71	---	-9.26	46.45	---	74	54	-7.55
7386	V	45.35	---	-1.01	44.34	---	74	54	-9.66
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *All the restriction bands are compliance with the limit of 15.209.*

Modulation Type: 802.11n (HT20)

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	54.96	---	-9.48	45.48	---	74	54	-8.52
7236	H	46.13	---	-1.34	44.79	---	74	54	-9.21
---	H	---	---	---	---	---	---	---	---
4824	V	54.70	---	-9.48	45.22	---	74	54	-8.78
7236	V	46.29	---	-1.34	44.95	---	74	54	-9.05
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	54.74	---	-9.37	45.37	---	74	54	-8.63
7311	H	46.38	---	-1.17	45.21	---	74	54	-8.79
---	H	---	---	---	---	---	---	---	---
4874	V	52.57	---	-9.37	43.20	---	74	54	-10.80
7311	V	46.05	---	-1.17	44.88	---	74	54	-9.12
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	54.24	---	-9.26	44.98	---	74	54	-9.02
7386	H	46.17	---	-1.01	45.16	---	74	54	-8.84
---	H	---	---	---	---	---	---	---	---
4924	V	53.63	---	-9.26	44.37	---	74	54	-9.63
7386	V	45.25	---	-1.01	44.24	---	74	54	-9.76
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *All the restriction bands are compliance with the limit of 15.209.*

Modulation Type: 802.11ax (HE20)

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4824	H	55.95	---	-9.48	46.47	---	74	54	-7.53
7236	H	45.43	---	-1.34	44.09	---	74	54	-9.91
---	H	---	---	---	---	---	---	---	---
4824	V	53.00	---	-9.48	43.52	---	74	54	-10.48
7236	V	46.71	---	-1.34	45.37	---	74	54	-8.63
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4874	H	54.35	---	-9.37	44.98	---	74	54	-9.02
7311	H	45.19	---	-1.17	44.02	---	74	54	-9.98
---	H	---	---	---	---	---	---	---	---
4874	V	53.26	---	-9.37	43.89	---	74	54	-10.11
7311	V	45.80	---	-1.17	44.63	---	74	54	-9.37
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4924	H	54.27	---	-9.26	45.01	---	74	54	-8.99
7386	H	45.64	---	-1.01	44.63	---	74	54	-9.37
---	H	---	---	---	---	---	---	---	---
4924	V	55.28	---	-9.26	46.02	---	74	54	-7.98
7386	V	46.05	---	-1.01	45.04	---	74	54	-8.96
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *All the restriction bands are compliance with the limit of 15.209.*

Modulation Type: 802.11n (HT40)

Low channel: 2422 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4844	H	54.13	---	-9.43	44.70	---	74	54	-9.30
7266	H	45.27	---	-1.28	43.99	---	74	54	-10.01
---	H	---	---	---	---	---	---	---	---
4824	V	54.63	---	-9.43	45.20	---	74	54	-8.80
7236	V	45.08	---	-1.28	43.80	---	74	54	-10.20
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	54.11	---	-9.37	44.74	---	74	54	-9.26
7311	H	46.37	---	-1.17	45.20	---	74	54	-8.80
---	H	---	---	---	---	---	---	---	---
4874	V	54.03	---	-9.37	44.66	---	74	54	-9.34
7311	V	45.65	---	-1.17	44.48	---	74	54	-9.52
---	V	---	---	---	---	----	---	---	---

High channel: 2452 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4904	H	54.49	---	-9.30	45.19	---	74	54	-8.81
7356	H	45.72	---	-1.08	44.64	---	74	54	-9.36
---	H	---	---	---	---	---	---	---	---
4904	V	55.94	---	-9.30	46.64	---	74	54	-7.36
7356	V	45.56	---	-1.08	44.48	---	74	54	-9.52
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *All the restriction bands are compliance with the limit of 15.209.*

Modulation Type: 802.11ax (HE40)

Low channel: 2422 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4844	H	55.02	---	-9.43	45.59	---	74	54	-8.41
7266	H	45.94	---	-1.28	44.66	---	74	54	-9.34
---	H	---	---	---	---	---	---	---	---
4824	V	54.61	---	-9.43	45.18	---	74	54	-8.82
7236	V	46.23	---	-1.28	44.95	---	74	54	-9.05
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4874	H	54.30	---	-9.37	44.93	---	74	54	-9.07
7311	H	45.74	---	-1.17	44.57	---	74	54	-9.43
---	H	---	---	---	---	---	---	---	---
4874	V	54.69	---	-9.37	45.32	---	74	54	-8.68
7311	V	45.56	---	-1.17	44.39	---	74	54	-9.61
---	V	---	---	---	---	----	---	---	---

High channel: 2452 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
4904	H	54.87	---	-9.30	45.57	---	74	54	-8.43
7356	H	45.42	---	-1.08	44.34	---	74	54	-9.66
---	H	---	---	---	---	---	---	---	---
4904	V	53.86	---	-9.30	44.56	---	74	54	-9.44
7356	V	45.21	---	-1.08	44.13	---	74	54	-9.87
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *All the restriction bands are compliance with the limit of 15.209.*

Appendix A: Test Result of Conducted Test

Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	99.80	0
NVNT	b	2437	99.60	0
NVNT	b	2462	99.10	0
NVNT	g	2412	99.20	0
NVNT	g	2437	98.90	0
NVNT	g	2462	98.50	0
NVNT	n20	2412	98.50	0
NVNT	n20	2437	98.30	0
NVNT	n20	2462	96.30	0.16
NVNT	n40	2422	97.36	0.12
NVNT	n40	2437	96.98	0.13
NVNT	n40	2452	97.26	0.12
NVNT	ax20	2412	96.90	0.14
NVNT	ax20	2437	96.17	0.17
NVNT	ax20	2462	96.32	0.16
NVNT	ax40	2422	96.56	0.15
NVNT	ax40	2437	97.18	0.12
NVNT	ax40	2452	96.07	0.17

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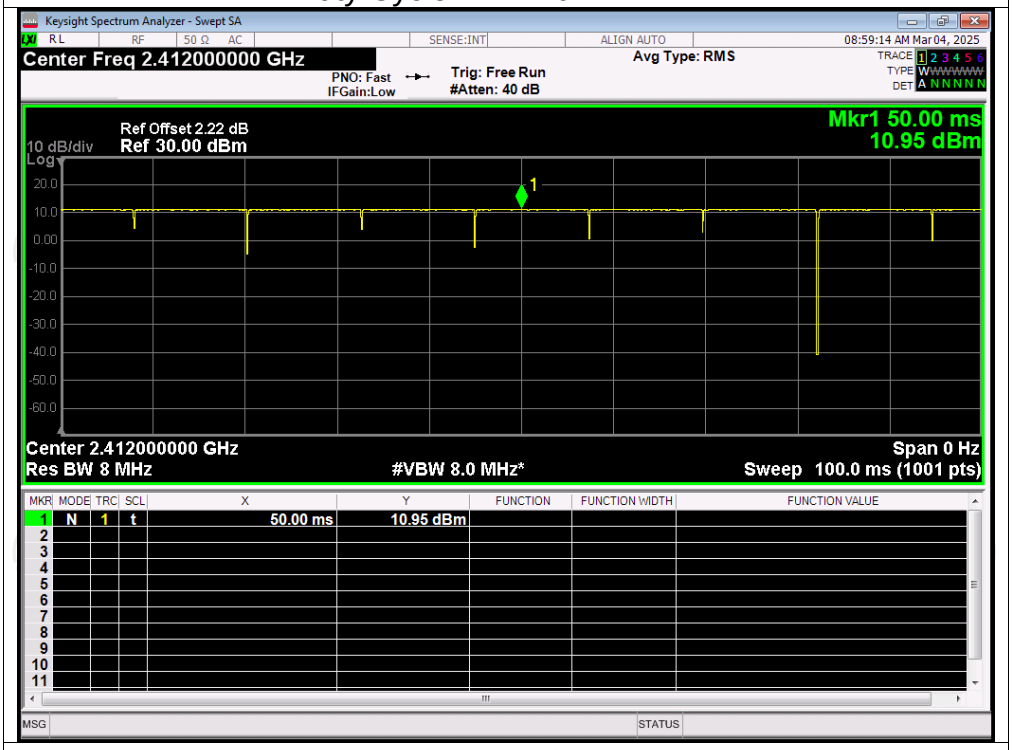
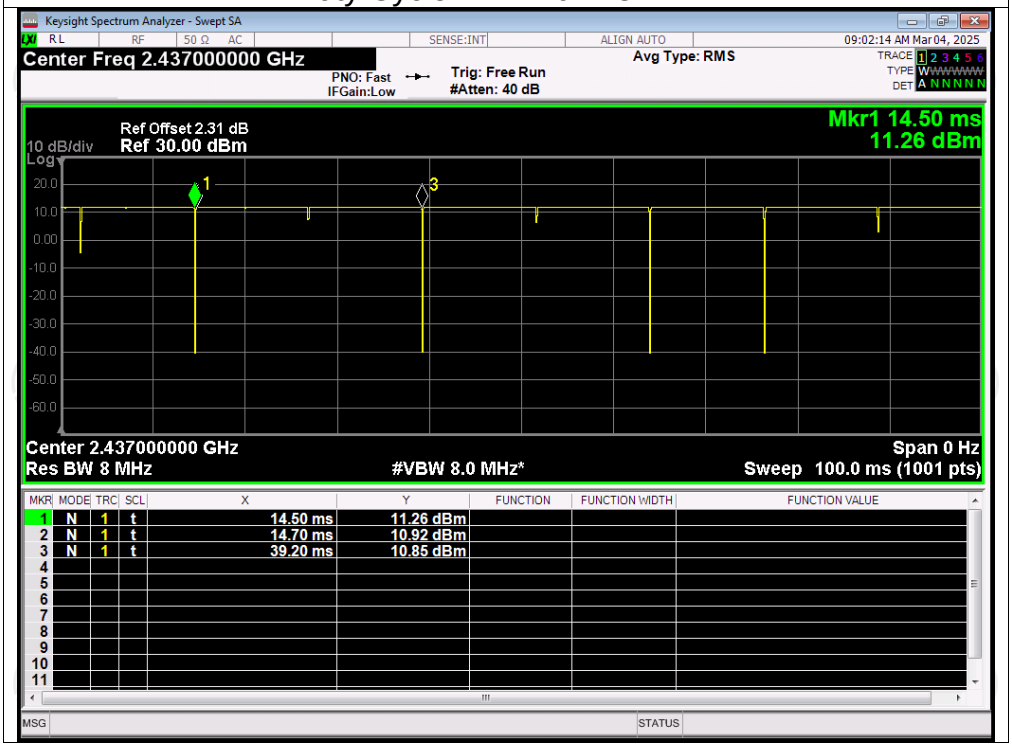
Test Graphs

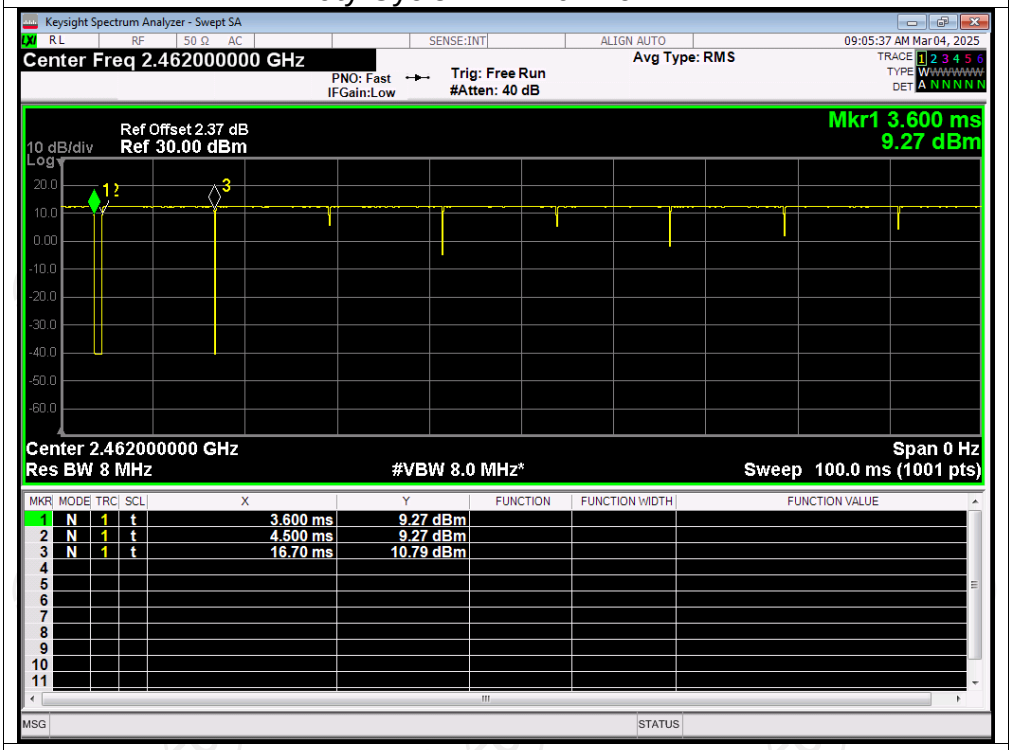
Duty Cycle NVNT b 2412MHz



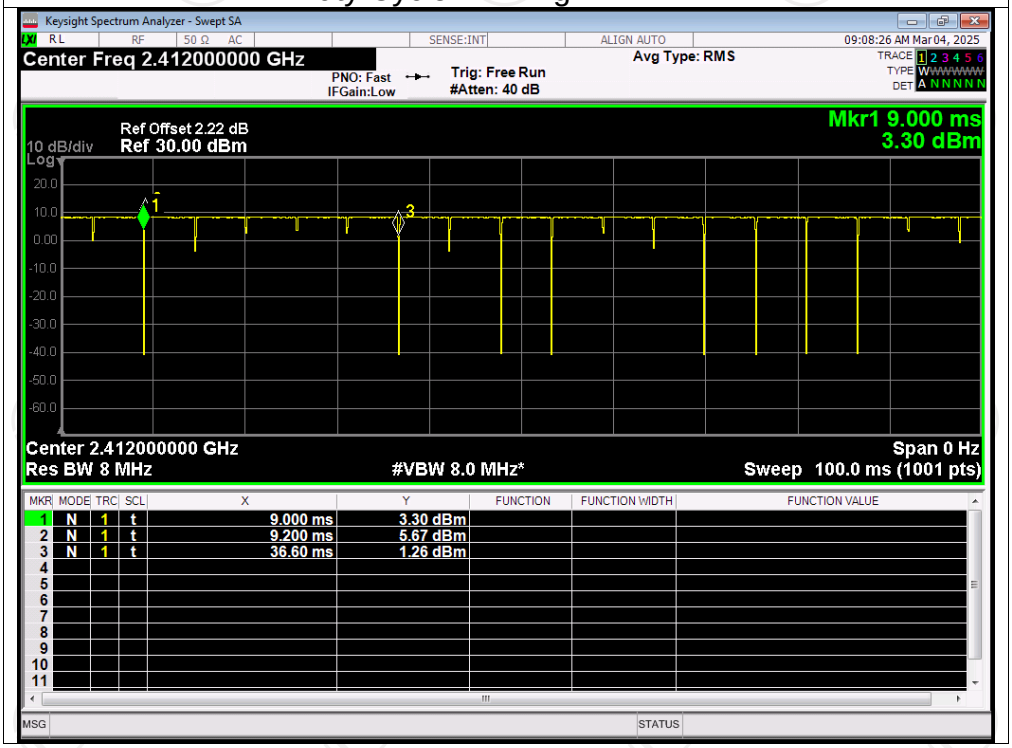
Duty Cycle NVNT b 2437MHz



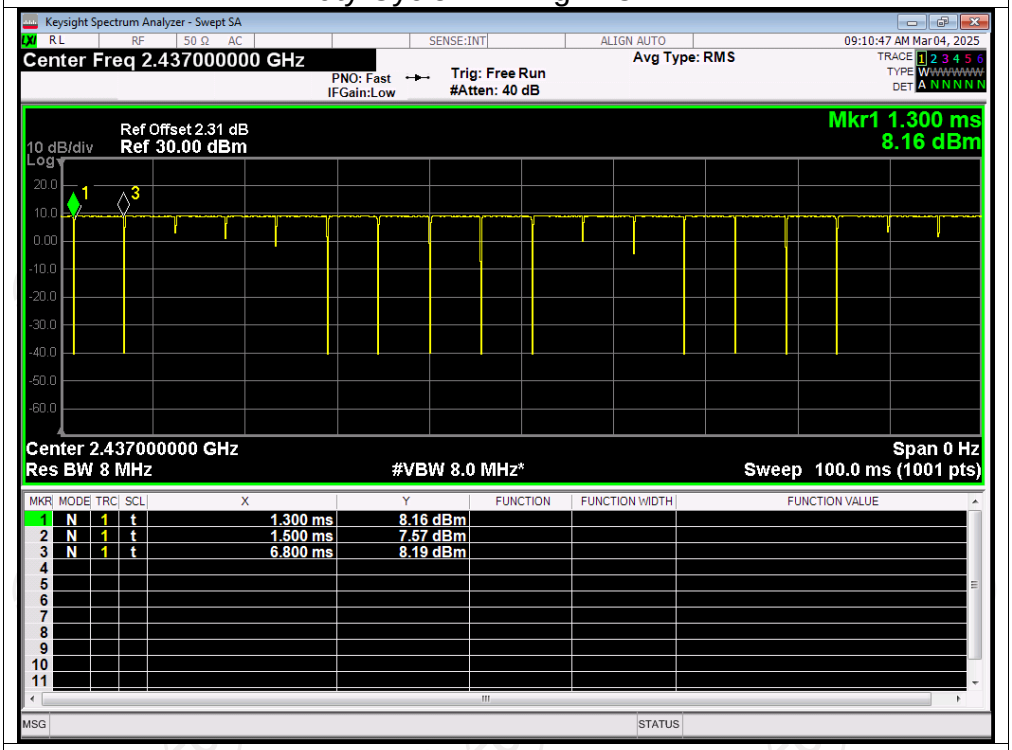
Duty Cycle NVNT b 2462MHz



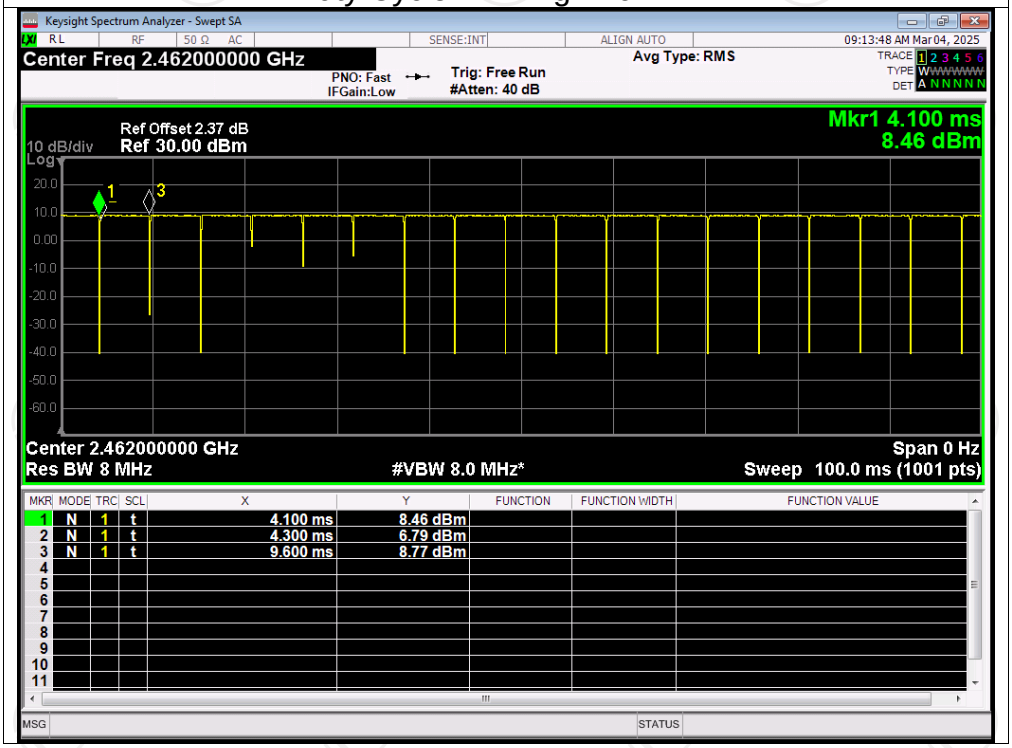
Duty Cycle NVNT g 2412MHz



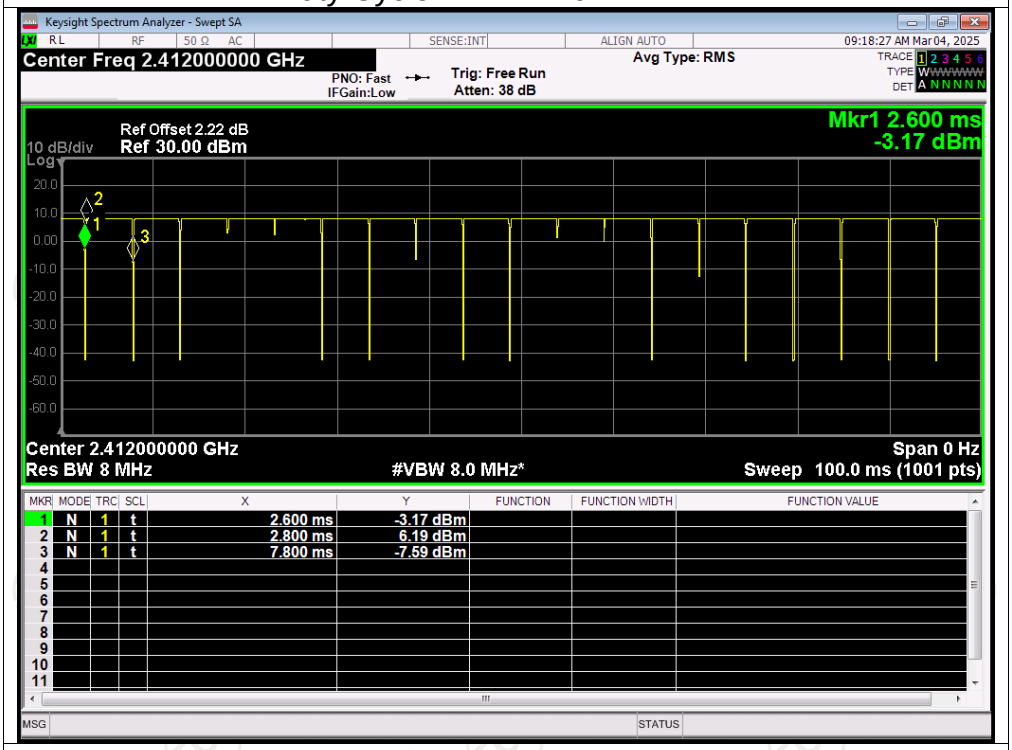
Duty Cycle NVNT g 2437MHz



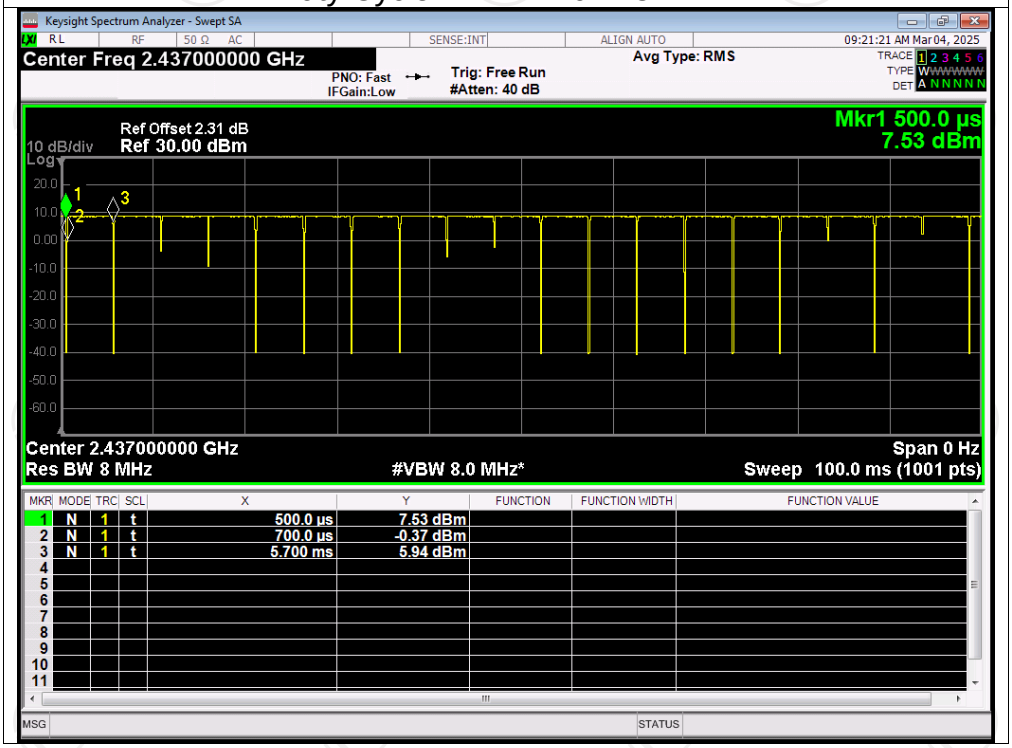
Duty Cycle NVNT g 2462MHz



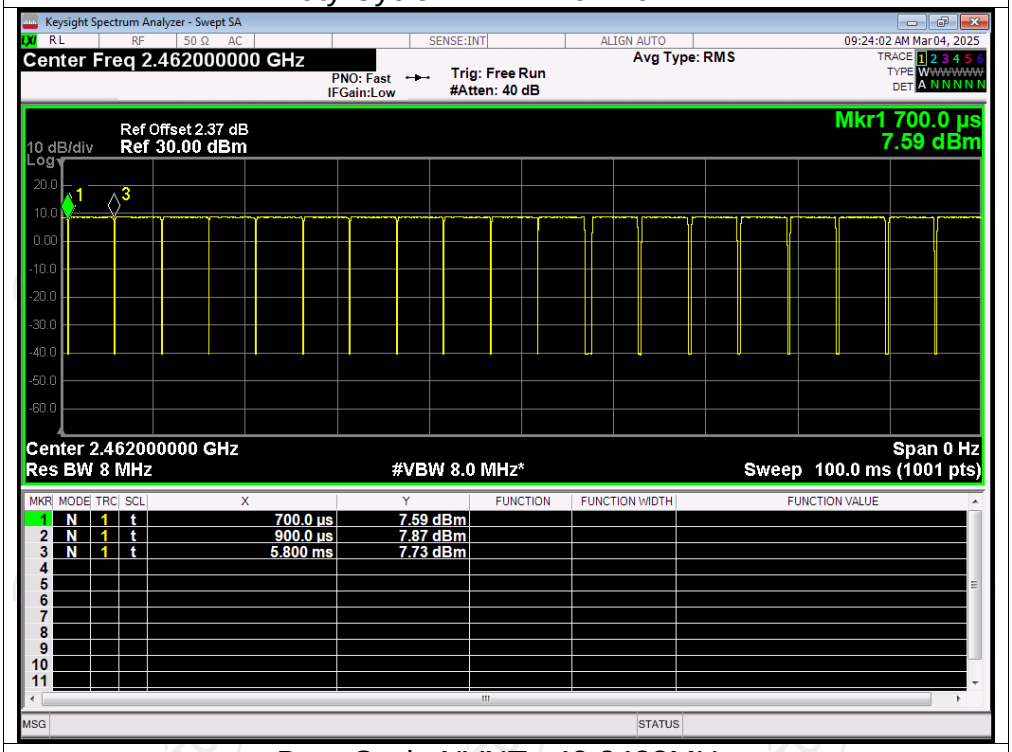
Duty Cycle NVNT n20 2412MHz



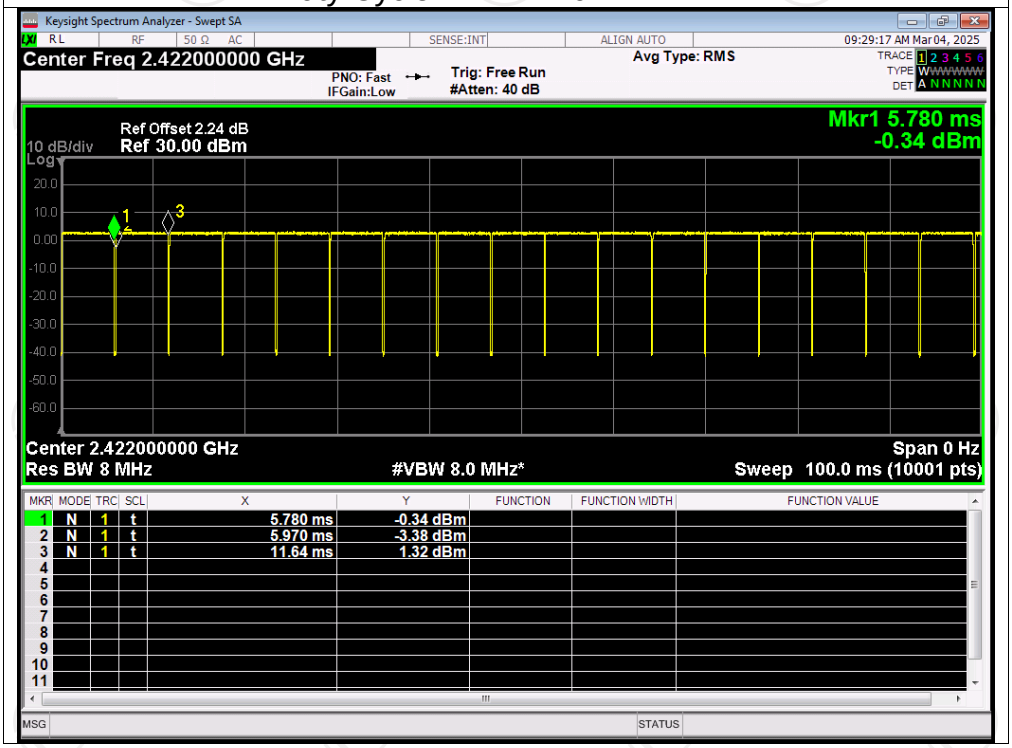
Duty Cycle NVNT n20 2437MHz



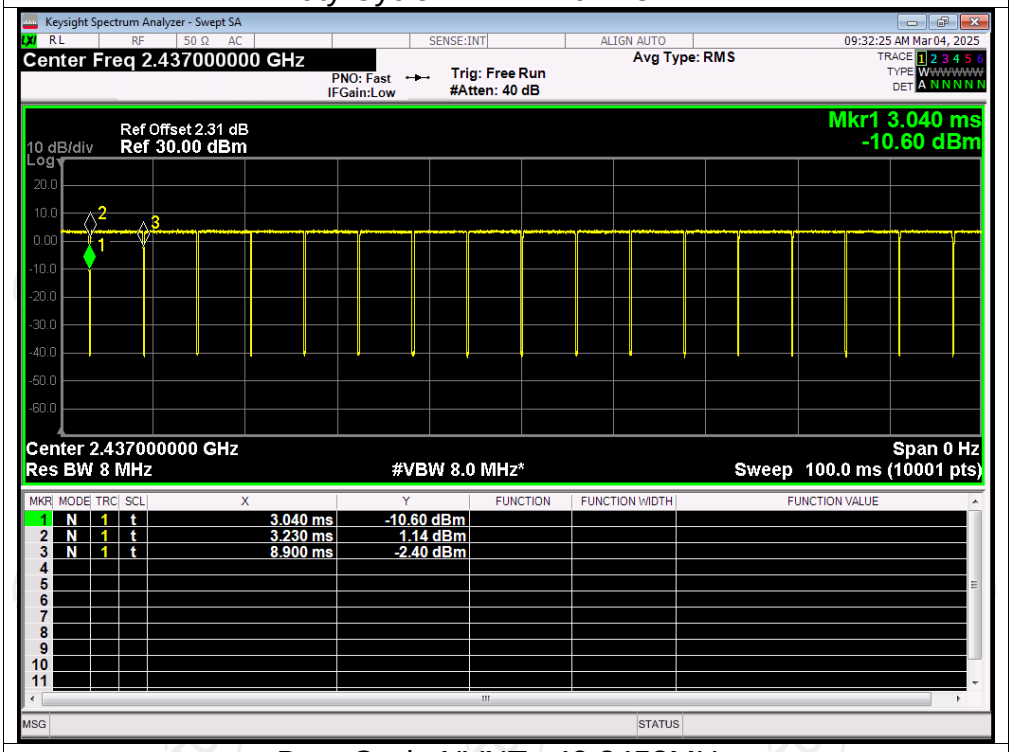
Duty Cycle NVNT n20 2462MHz



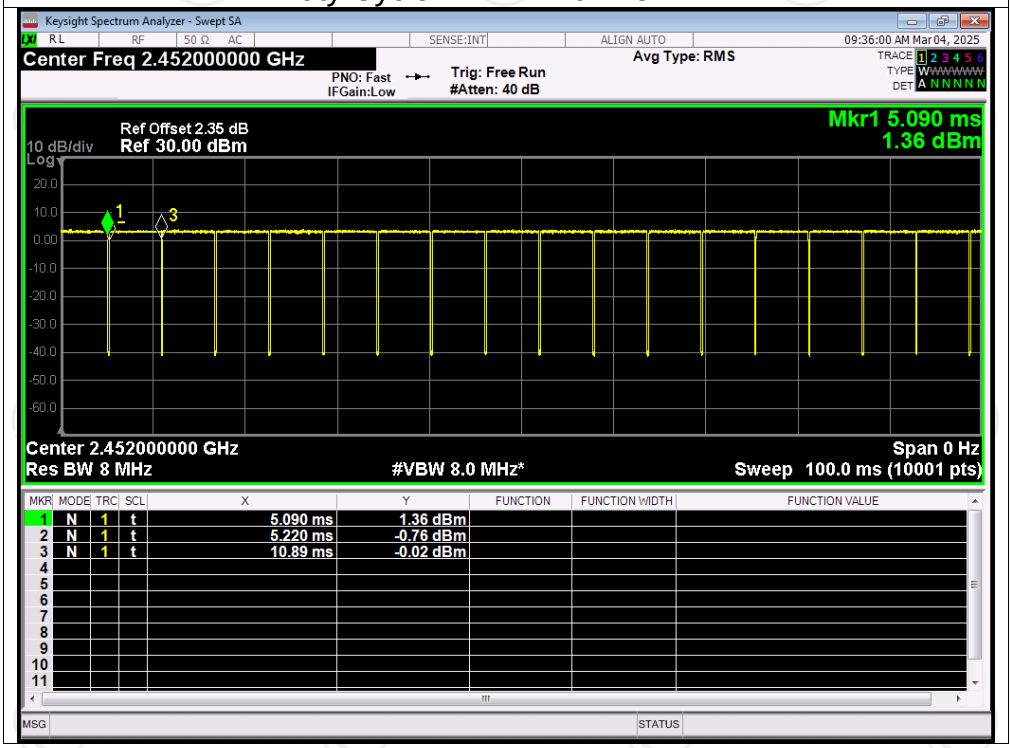
Duty Cycle NVNT n40 2422MHz



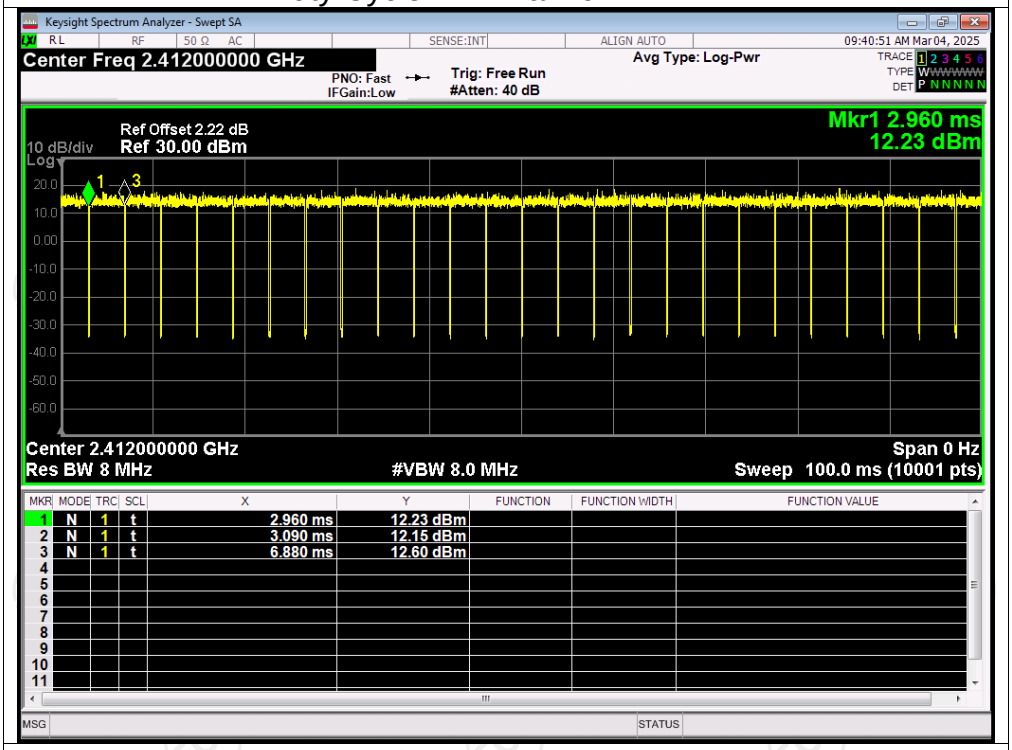
Duty Cycle NVNT n40 2437MHz



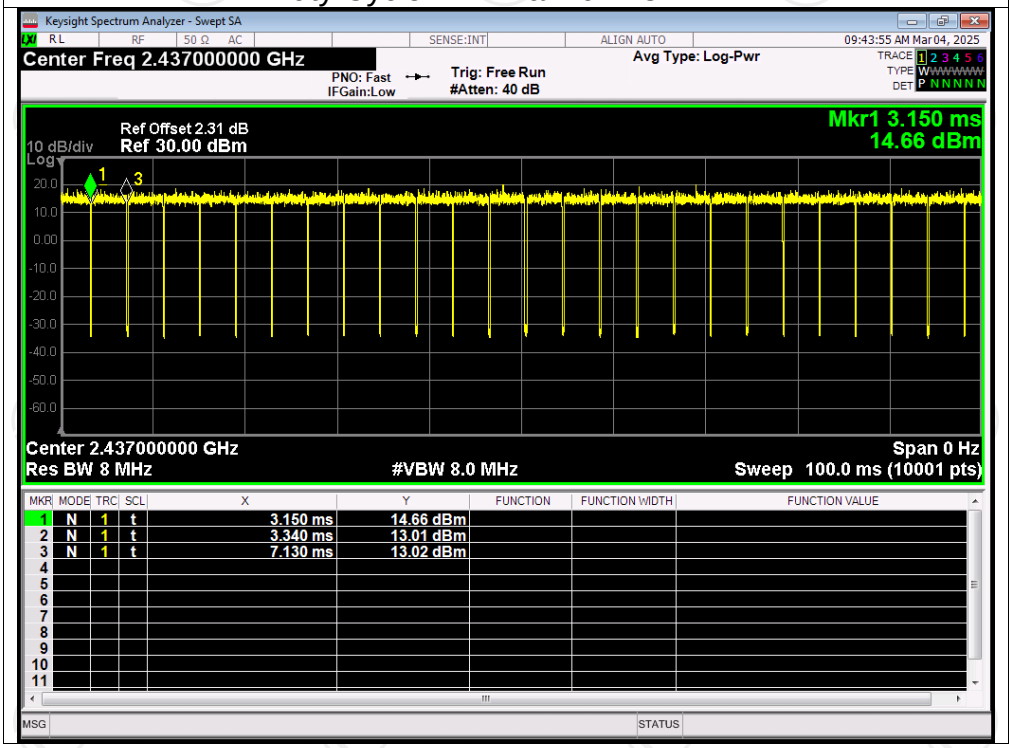
Duty Cycle NVNT n40 2452MHz



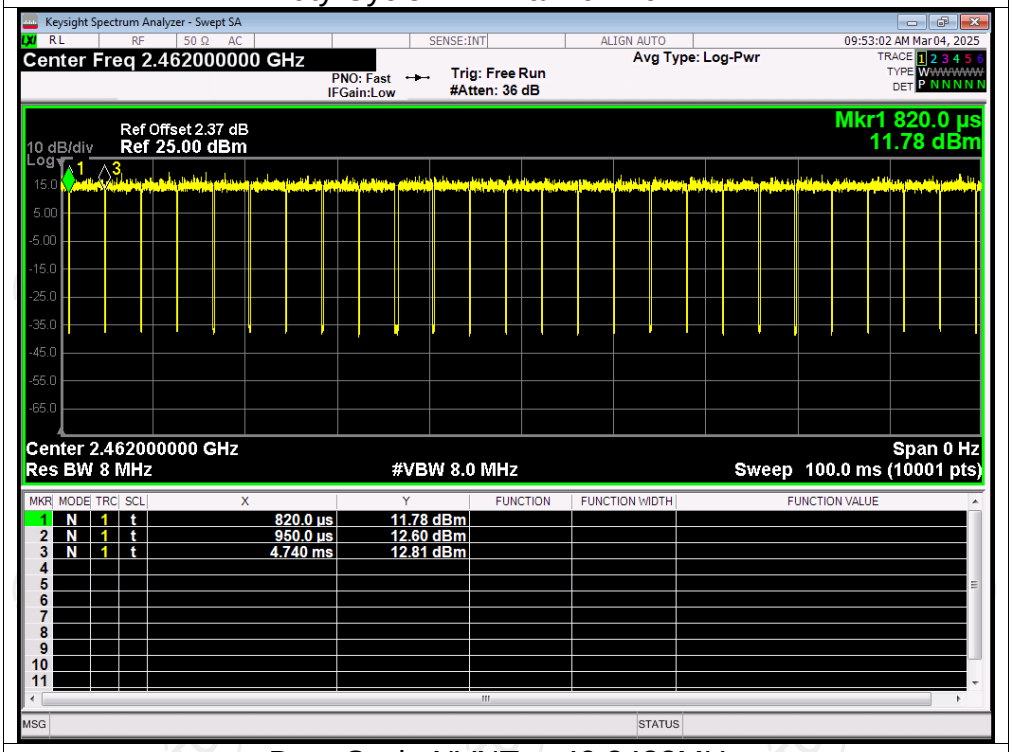
Duty Cycle NVNT ax20 2412MHz



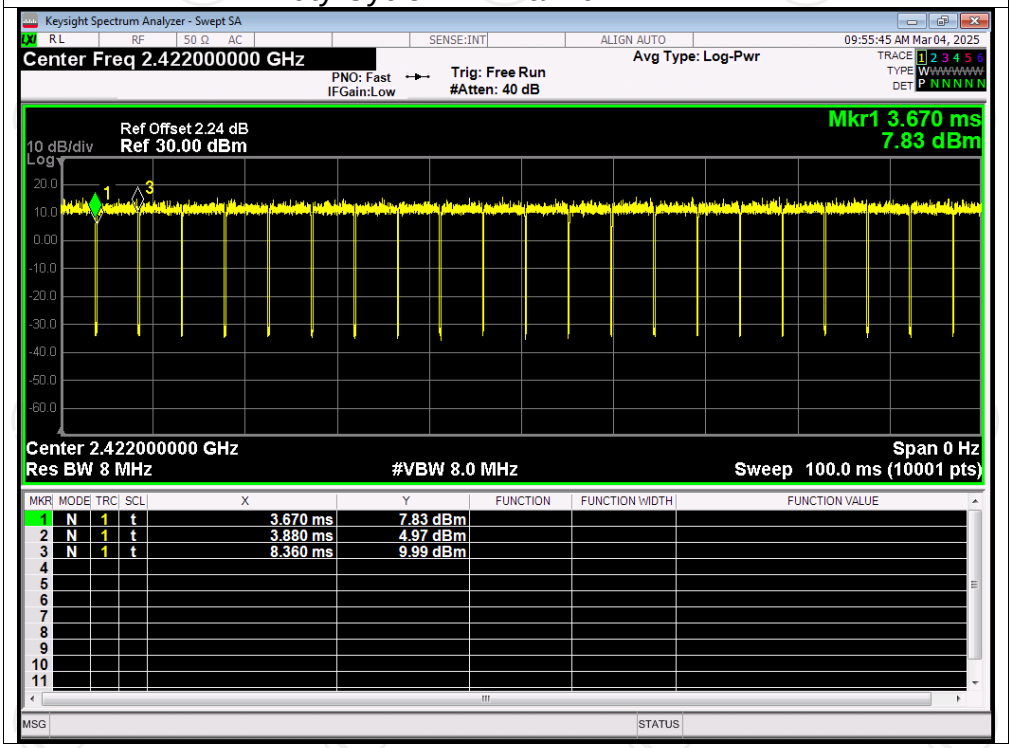
Duty Cycle NVNT ax20 2437MHz



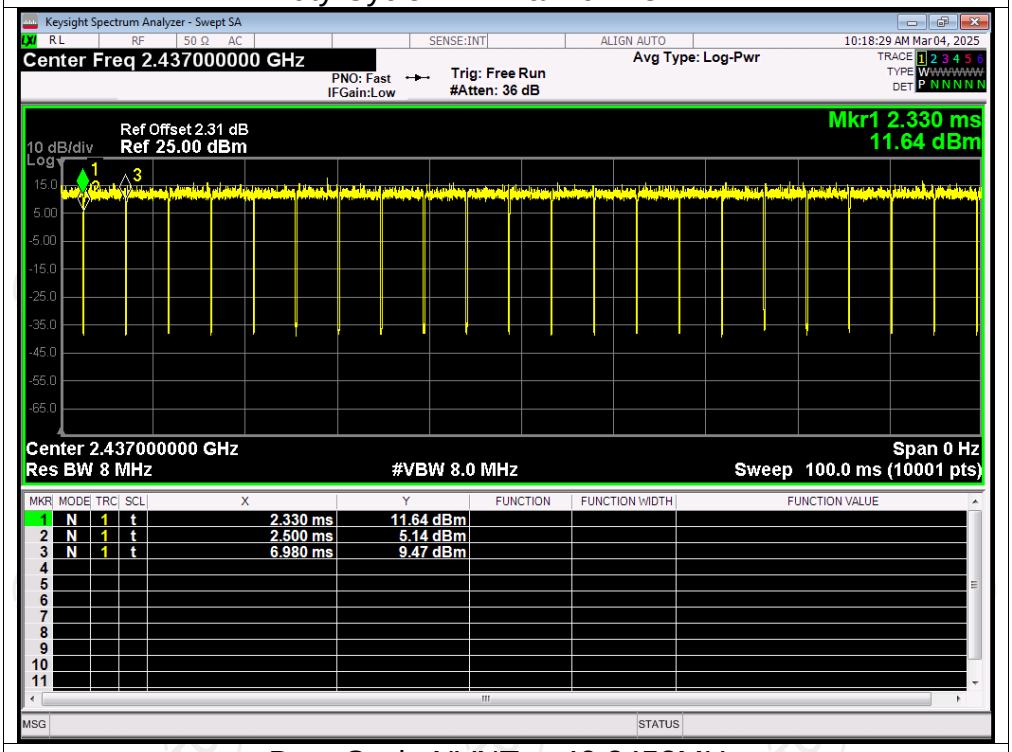
Duty Cycle NVNT ax20 2462MHz



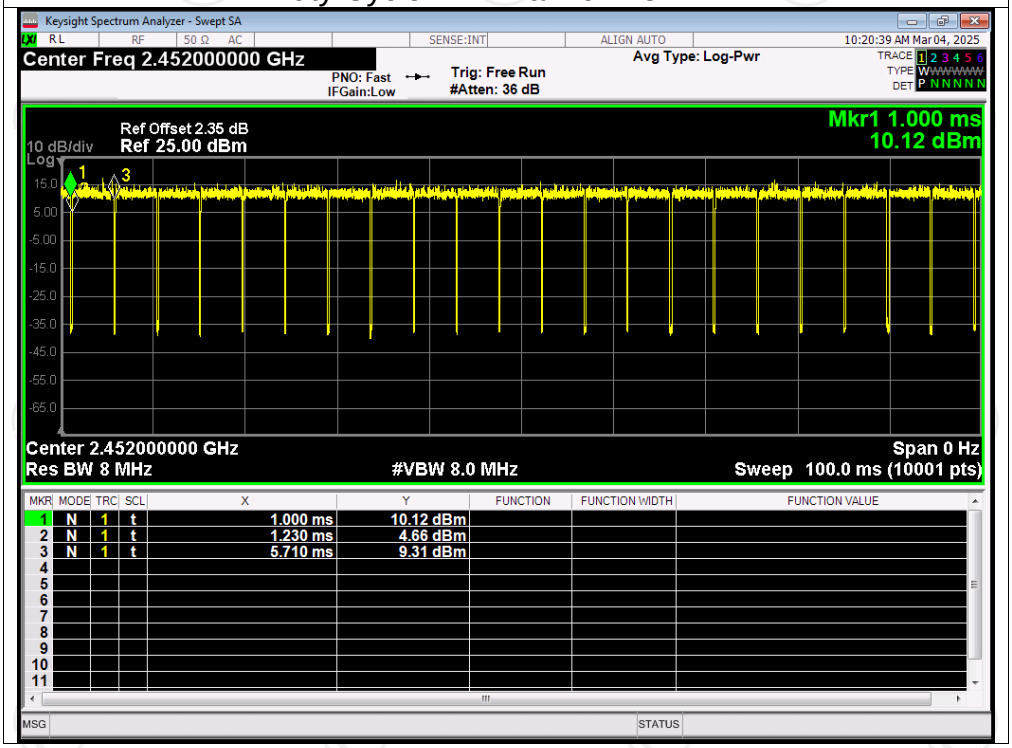
Duty Cycle NVNT ax40 2422MHz



Duty Cycle NVNT ax40 2437MHz



Duty Cycle NVNT ax40 2452MHz

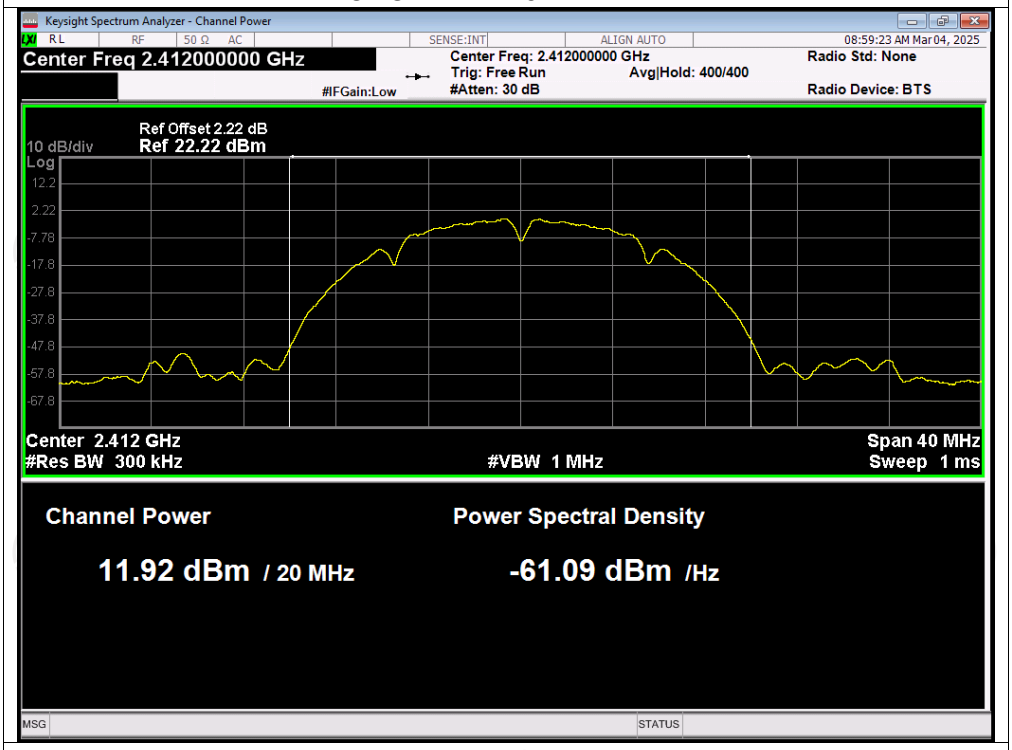


Maximum Conducted Output Power

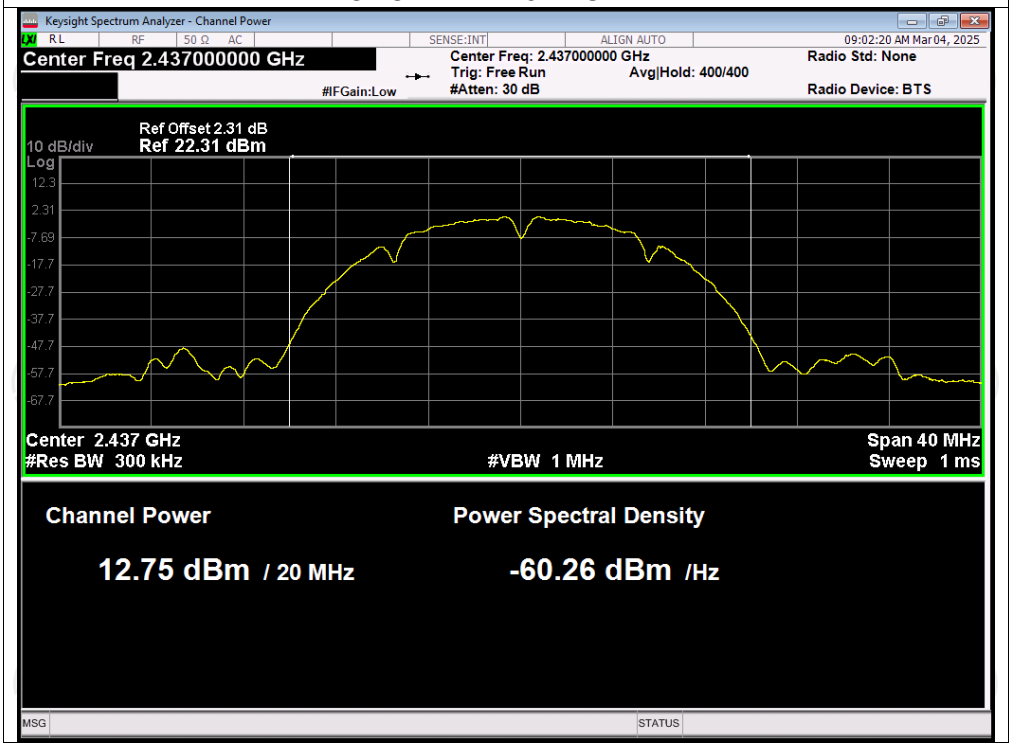
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	11.92	0	11.92	30	Pass
NVNT	b	2437	12.75	0	12.75	30	Pass
NVNT	b	2462	13.32	0	13.32	30	Pass
NVNT	g	2412	11.21	0	11.21	30	Pass
NVNT	g	2437	11.85	0	11.85	30	Pass
NVNT	g	2462	11.81	0	11.81	30	Pass
NVNT	n20	2412	11.10	0	11.10	30	Pass
NVNT	n20	2437	11.79	0	11.79	30	Pass
NVNT	n20	2462	11.75	0.16	11.91	30	Pass
NVNT	n40	2422	8.98	0.12	9.10	30	Pass
NVNT	n40	2437	9.82	0.13	9.95	30	Pass
NVNT	n40	2452	9.69	0.12	9.81	30	Pass
NVNT	ax20	2412	10.16	0.14	10.30	30	Pass
NVNT	ax20	2437	10.71	0.17	10.88	30	Pass
NVNT	ax20	2462	10.63	0.16	10.79	30	Pass
NVNT	ax40	2422	10.11	0.15	10.26	30	Pass
NVNT	ax40	2437	10.77	0.12	10.89	30	Pass
NVNT	ax40	2452	10.68	0.17	10.85	30	Pass

Test Graphs

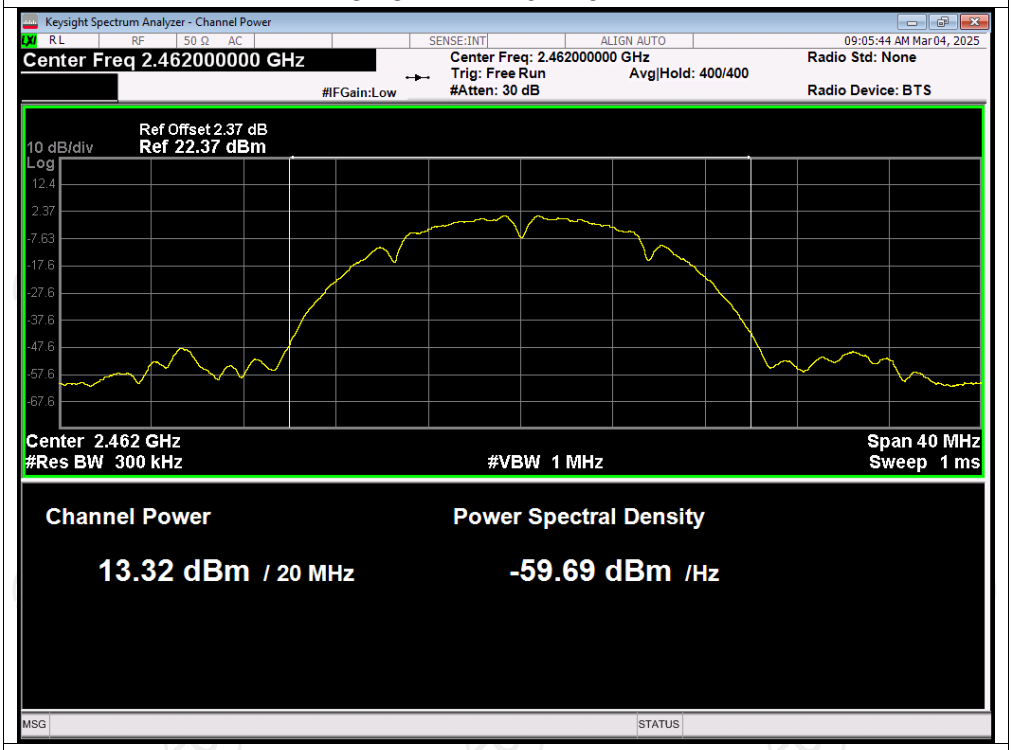
Power NVNT b 2412MHz



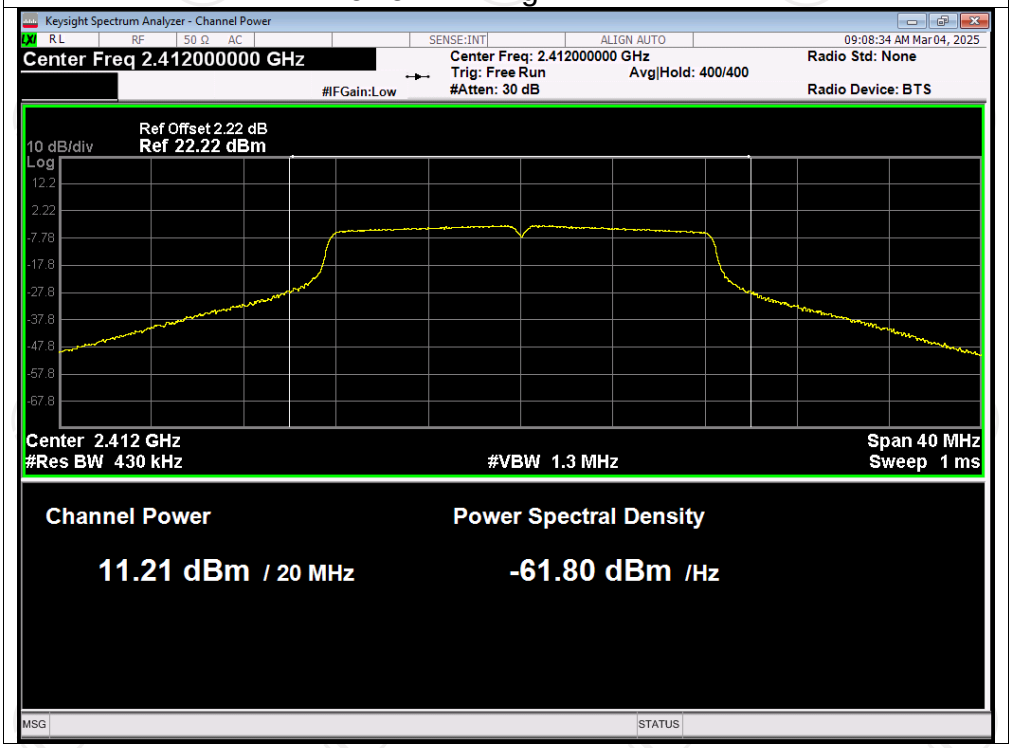
Power NVNT b 2437MHz



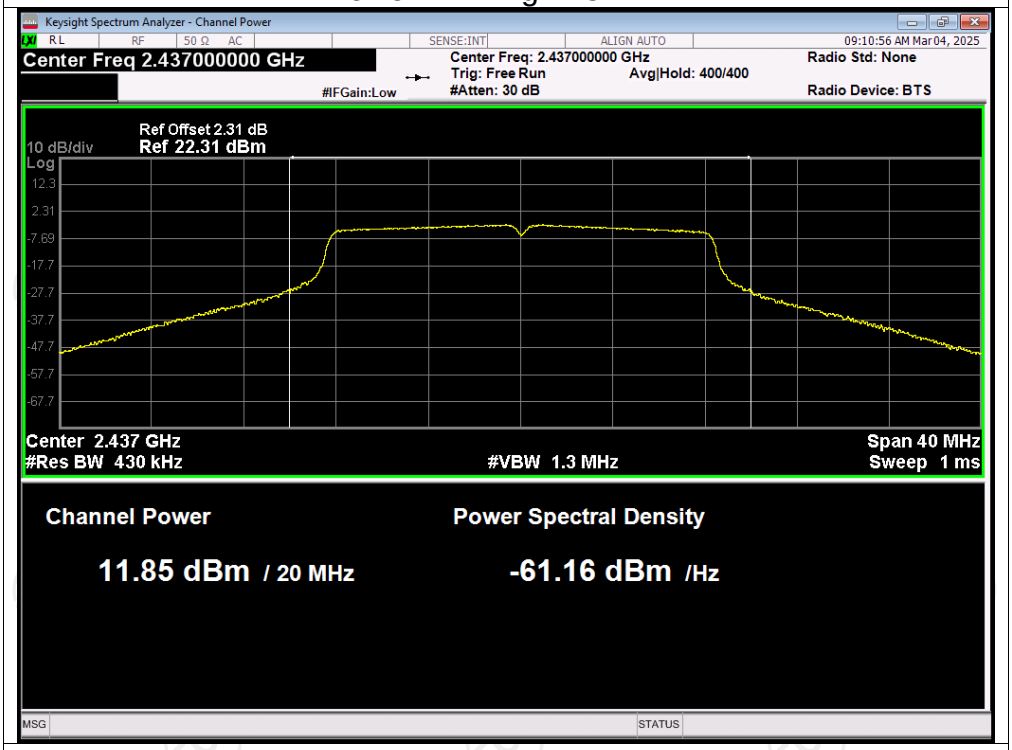
Power NVNT b 2462MHz



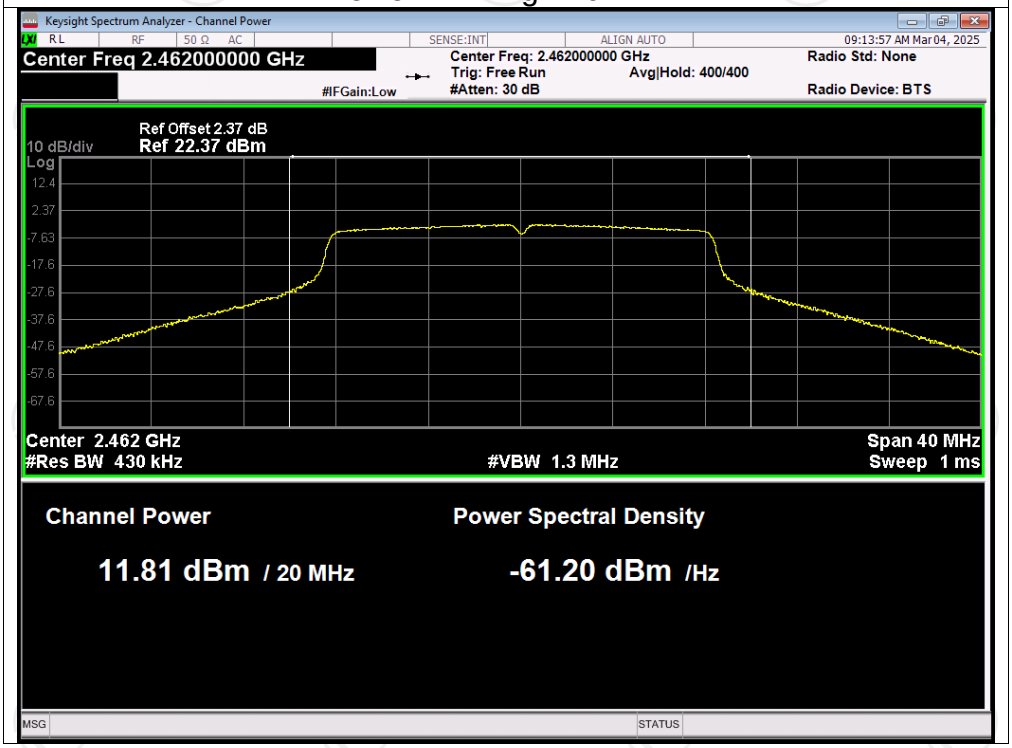
Power NVNT g 2412MHz



Power NVNT g 2437MHz



Power NVNT g 2462MHz



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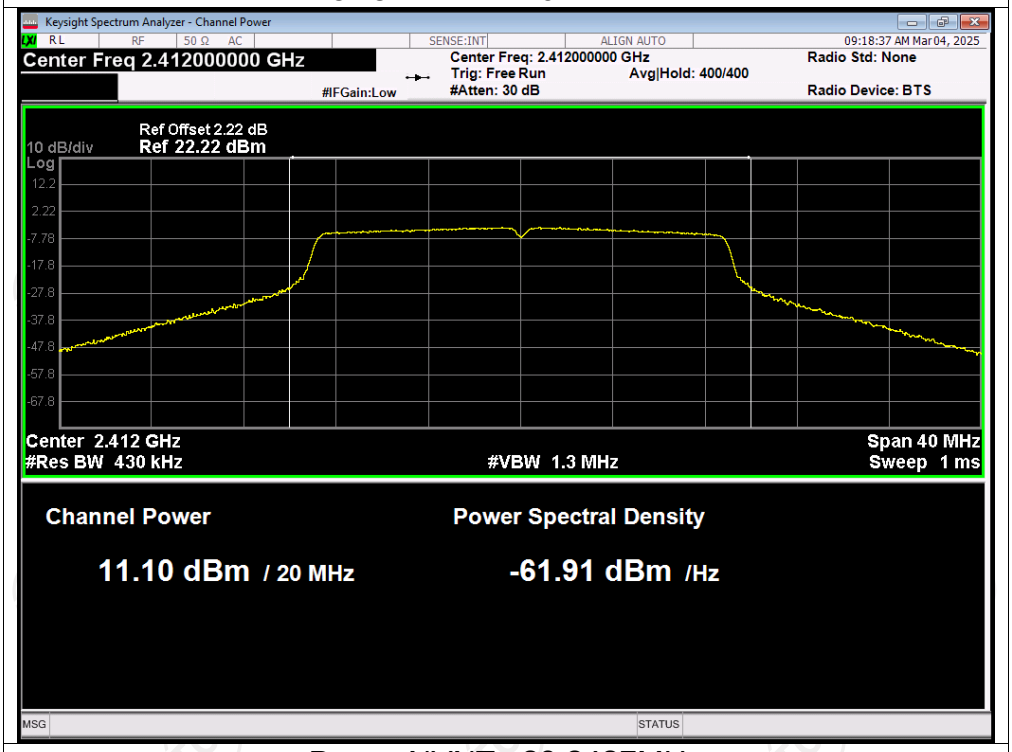
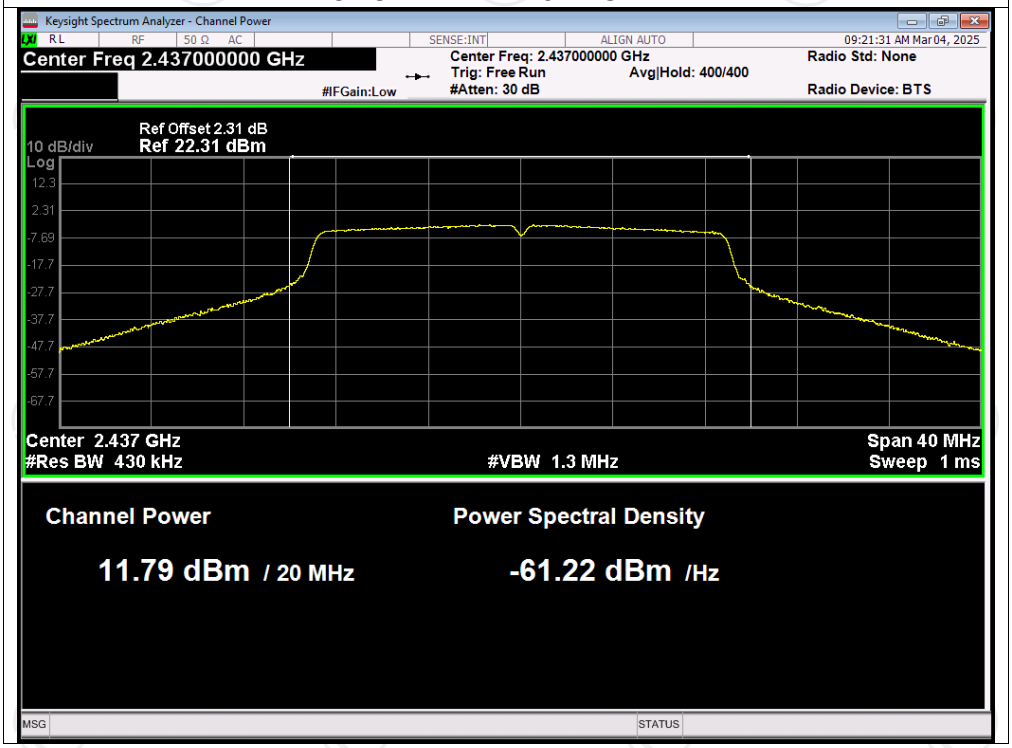
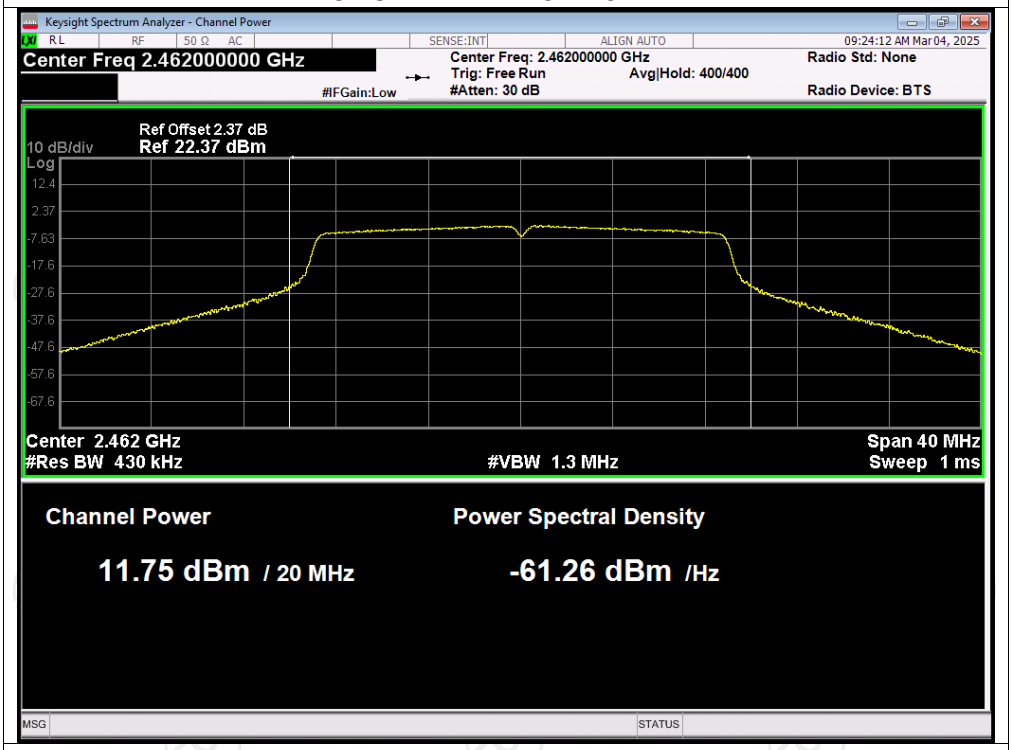
Power NVNT n20 2412MHz



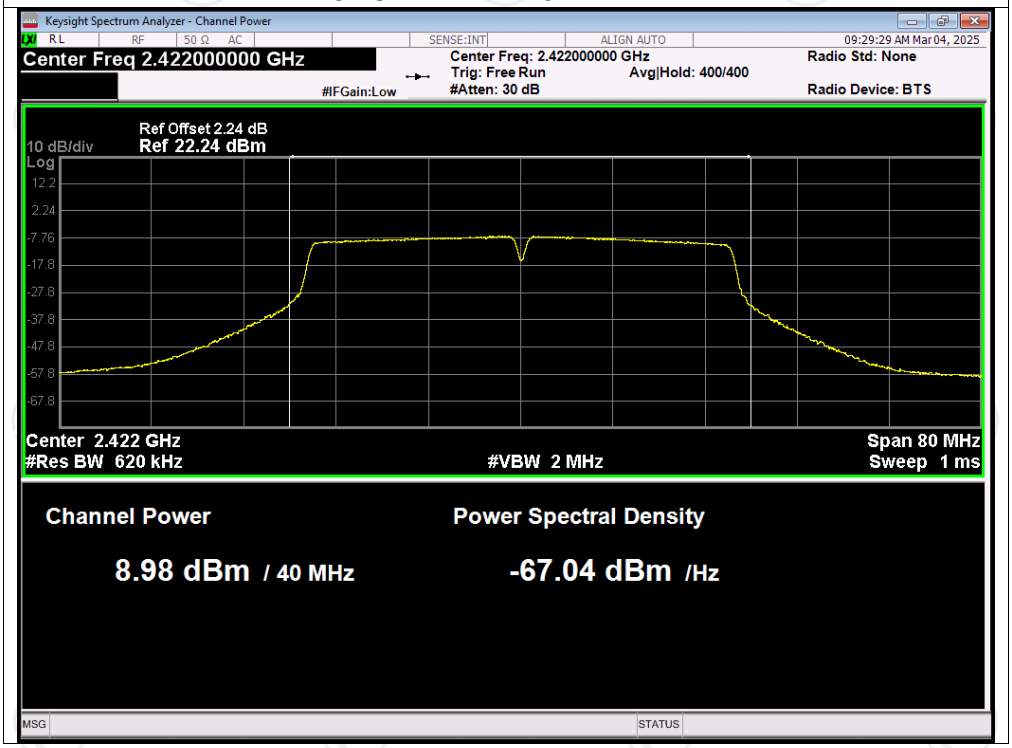
Power NVNT n20 2437MHz



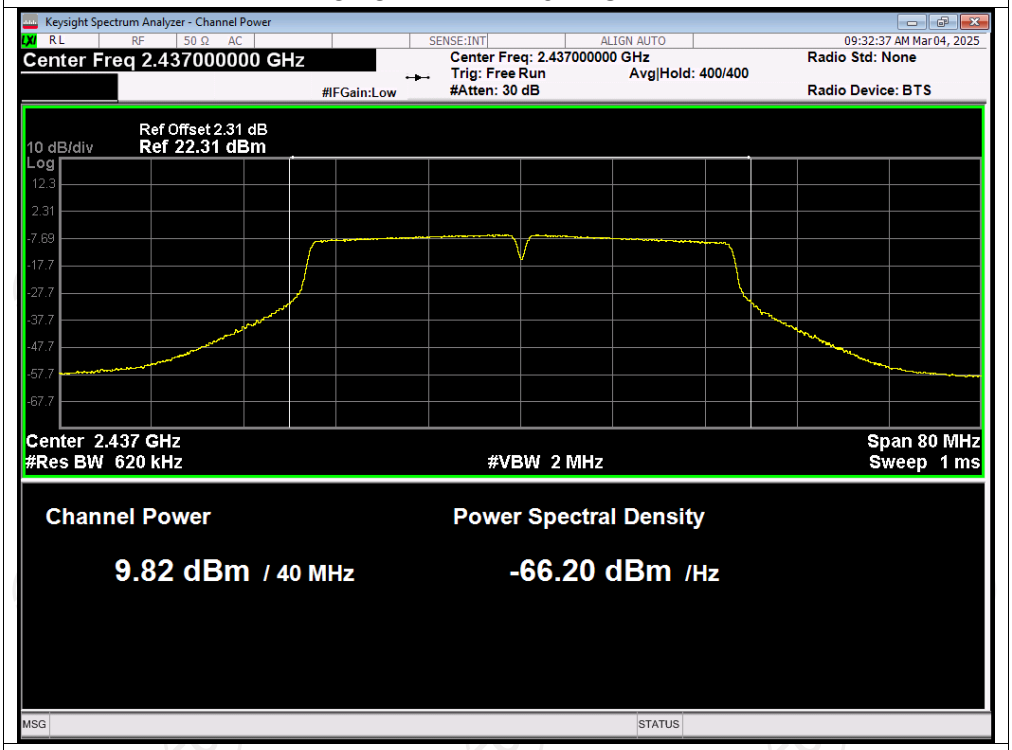
Power NVNT n20 2462MHz



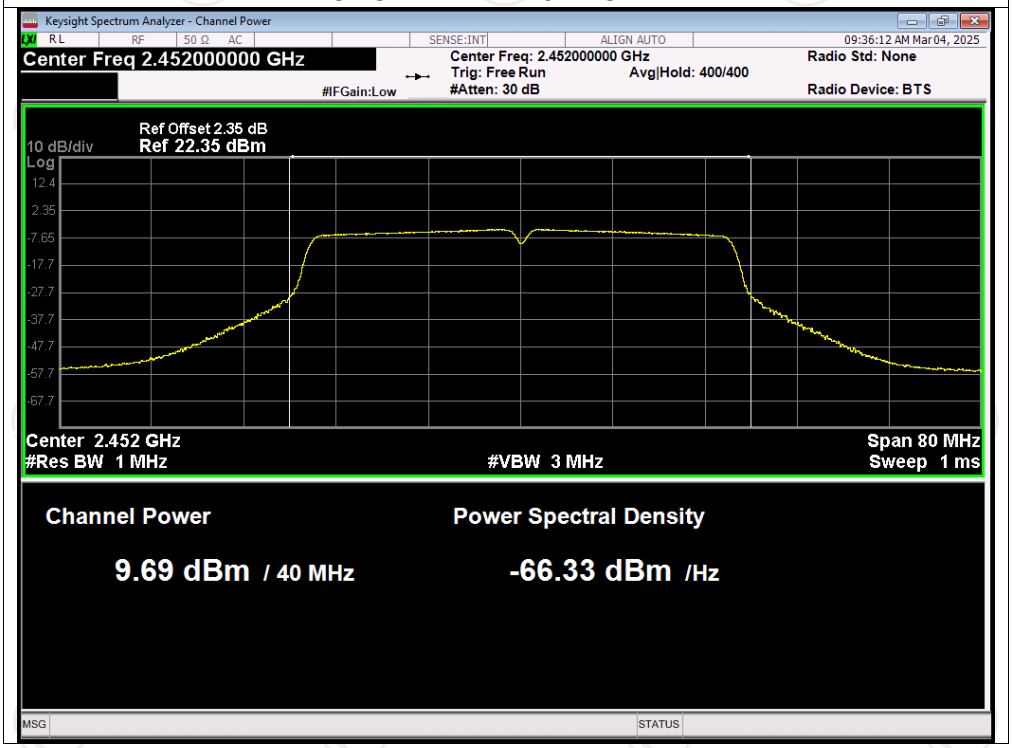
Power NVNT n40 2422MHz



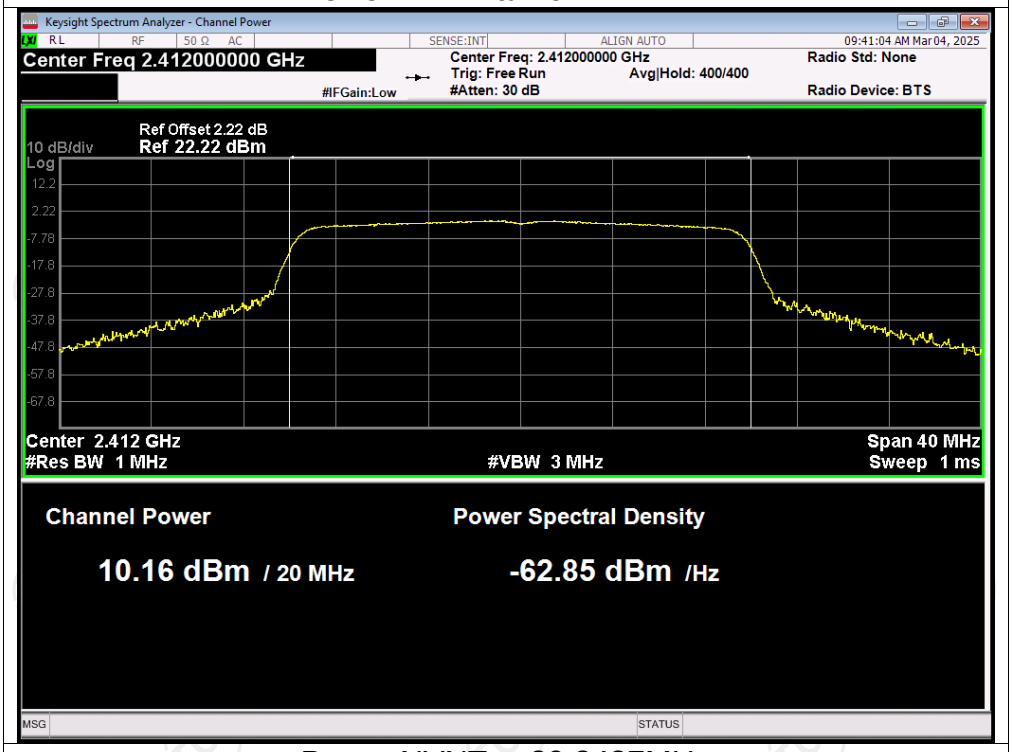
Power NVNT n40 2437MHz



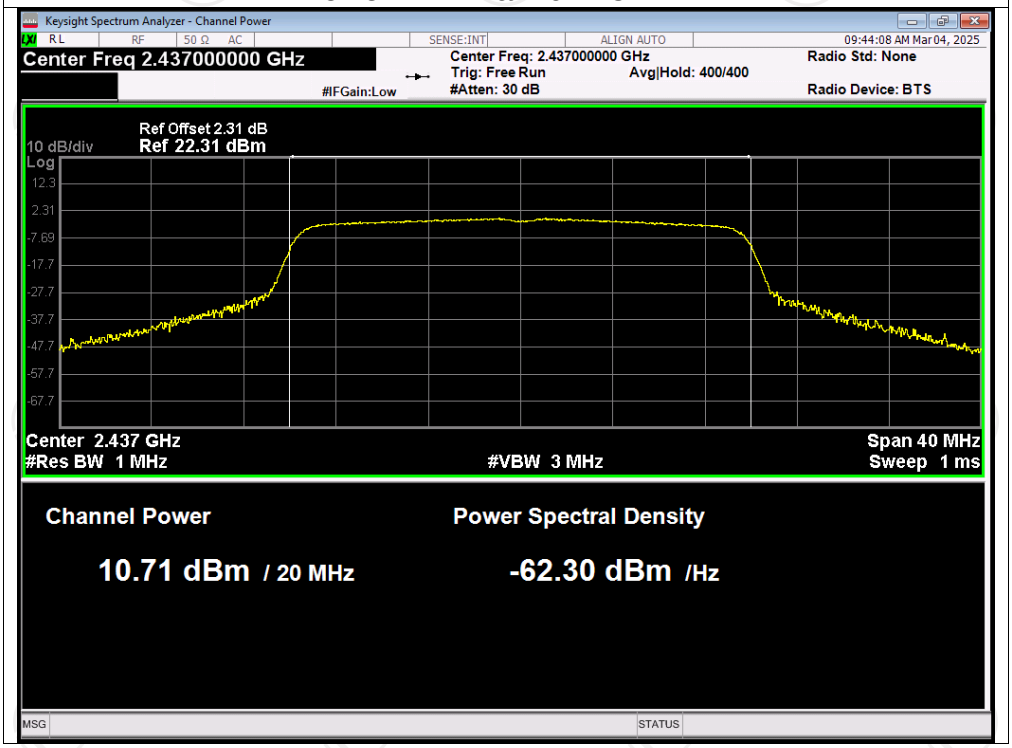
Power NVNT n40 2452MHz



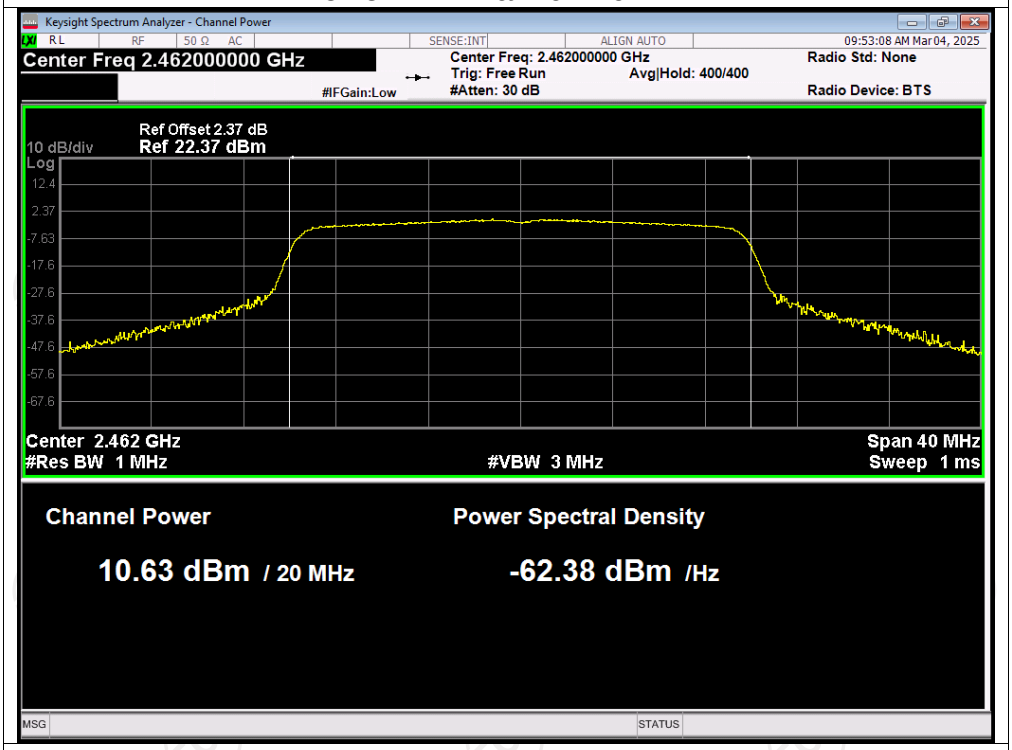
Power NVNT ax20 2412MHz



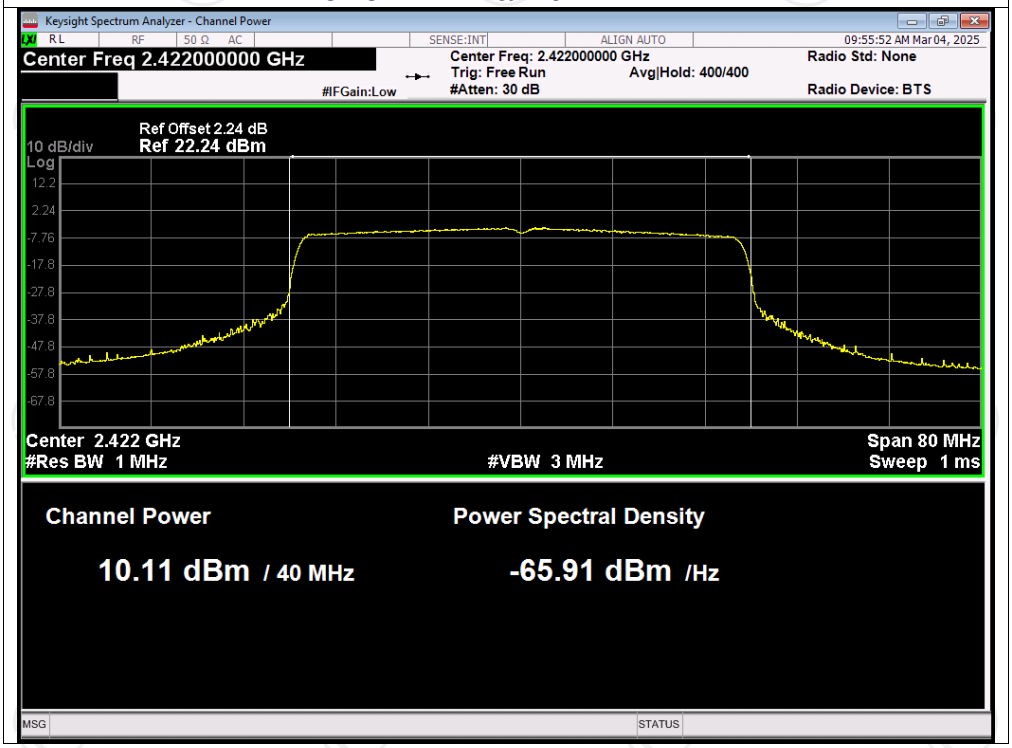
Power NVNT ax20 2437MHz



Power NVNT ax20 2462MHz



Power NVNT ax40 2422MHz



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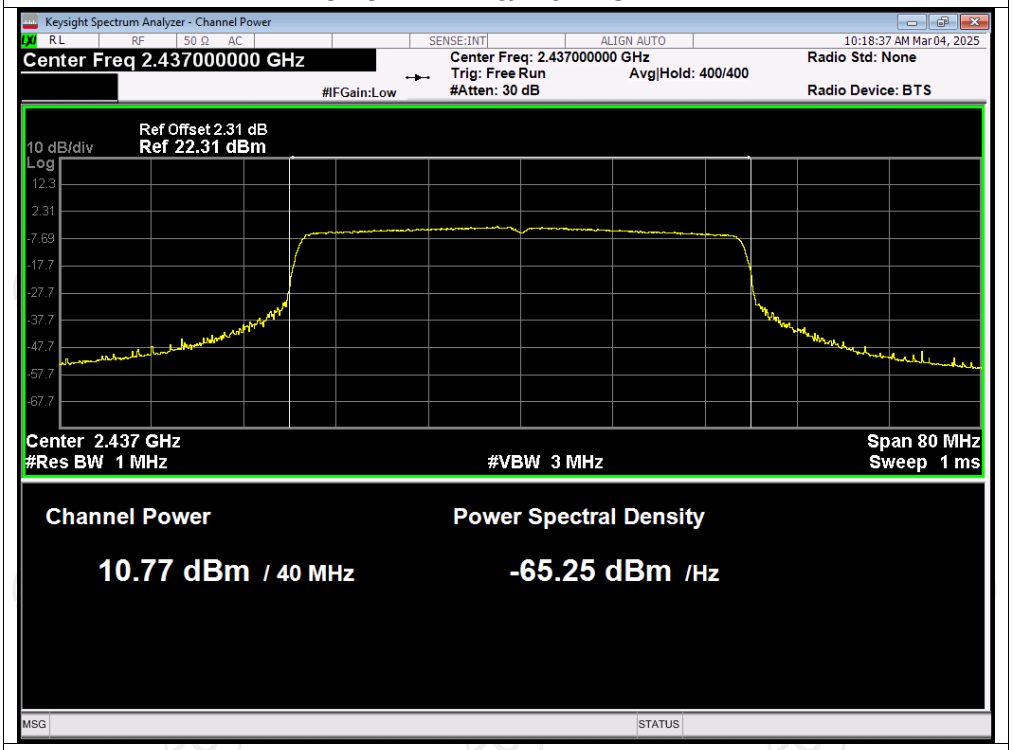
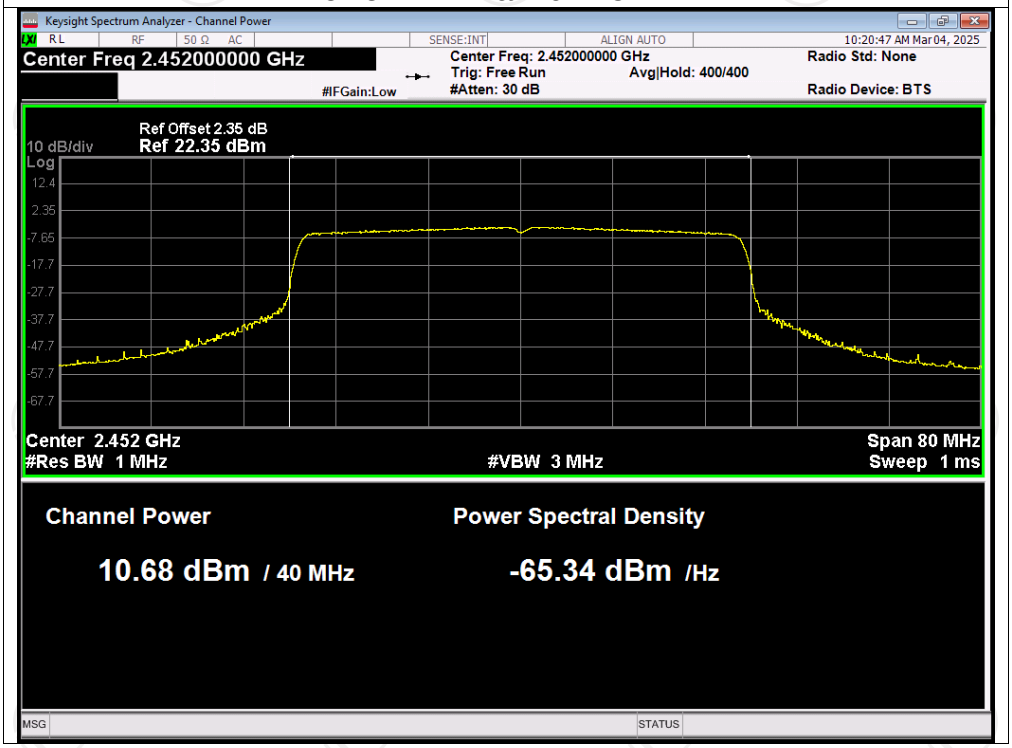
Power NVNT ax40 2437MHz



Power NVNT ax40 2452MHz



-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	8.125	0.5	Pass
NVNT	b	2437	9.065	0.5	Pass
NVNT	b	2462	9.087	0.5	Pass
NVNT	g	2412	16.349	0.5	Pass
NVNT	g	2437	15.938	0.5	Pass
NVNT	g	2462	16.333	0.5	Pass
NVNT	n20	2412	17.331	0.5	Pass
NVNT	n20	2437	16.013	0.5	Pass
NVNT	n20	2462	16.422	0.5	Pass
NVNT	n40	2422	35.632	0.5	Pass
NVNT	n40	2437	35.718	0.5	Pass
NVNT	n40	2452	34.822	0.5	Pass
NVNT	ax20	2412	17.782	0.5	Pass
NVNT	ax20	2437	18.494	0.5	Pass
NVNT	ax20	2462	18.429	0.5	Pass
NVNT	ax40	2422	37.632	0.5	Pass
NVNT	ax40	2437	37.391	0.5	Pass
NVNT	ax40	2452	37.203	0.5	Pass

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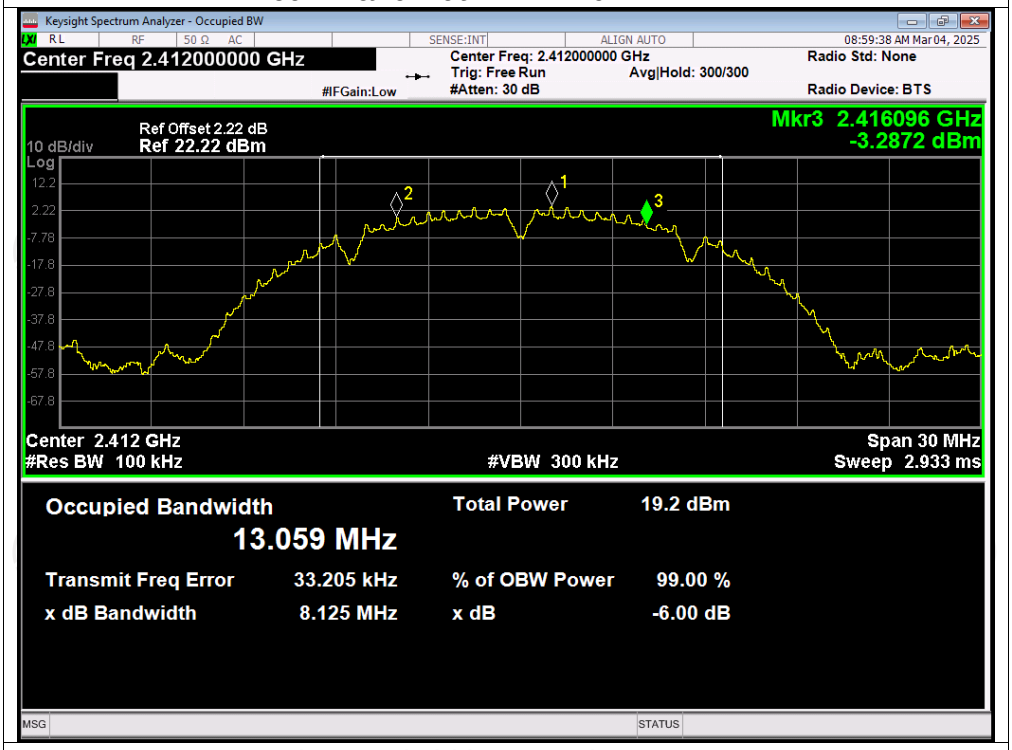
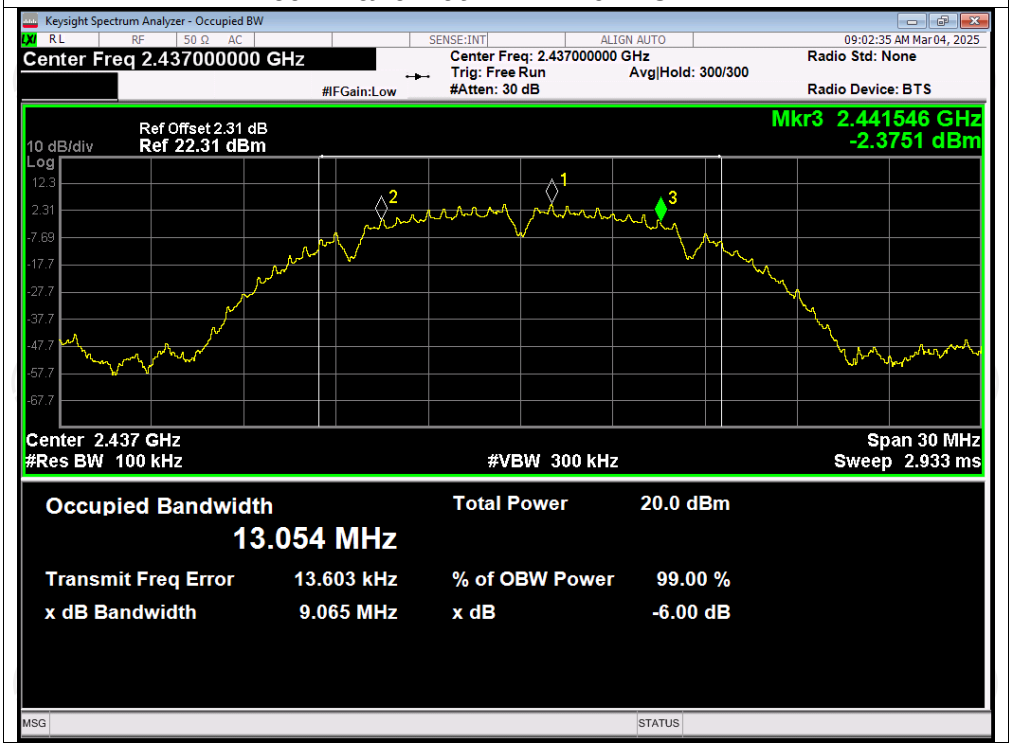
Test Graphs

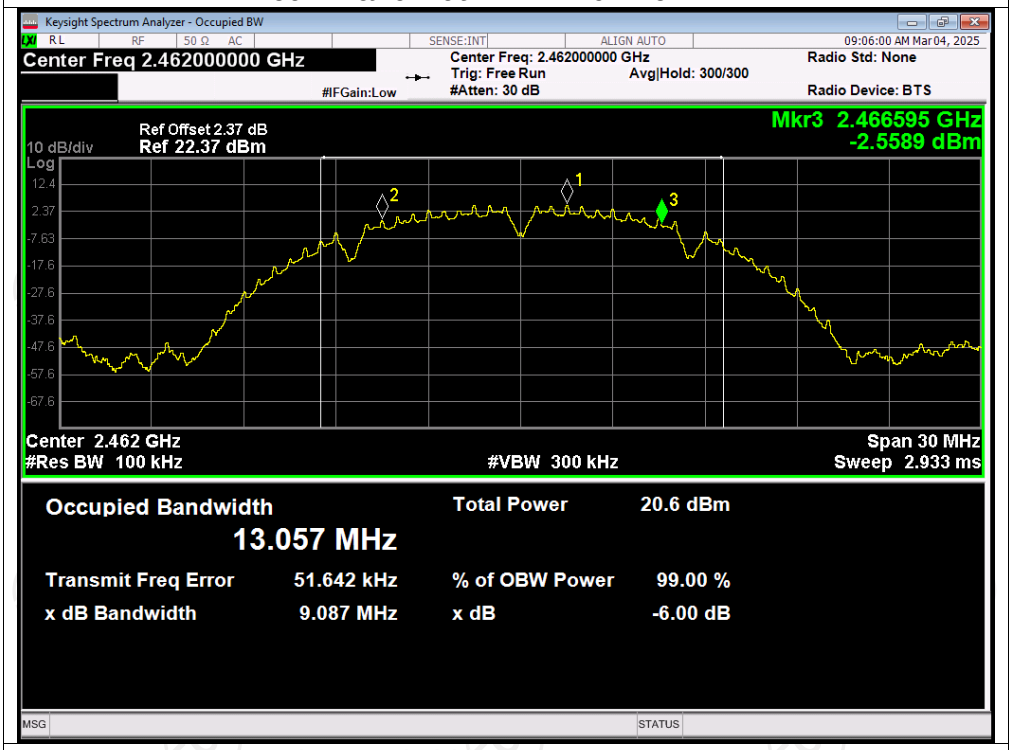
-6dB Bandwidth NVNT b 2412MHz



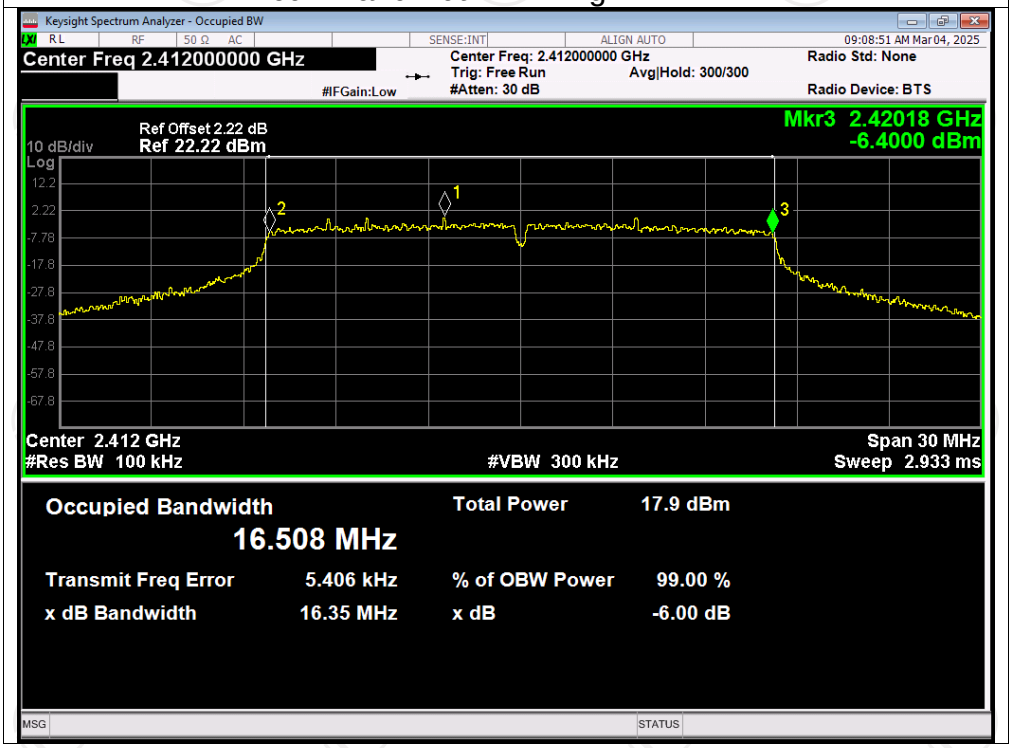
-6dB Bandwidth NVNT b 2437MHz



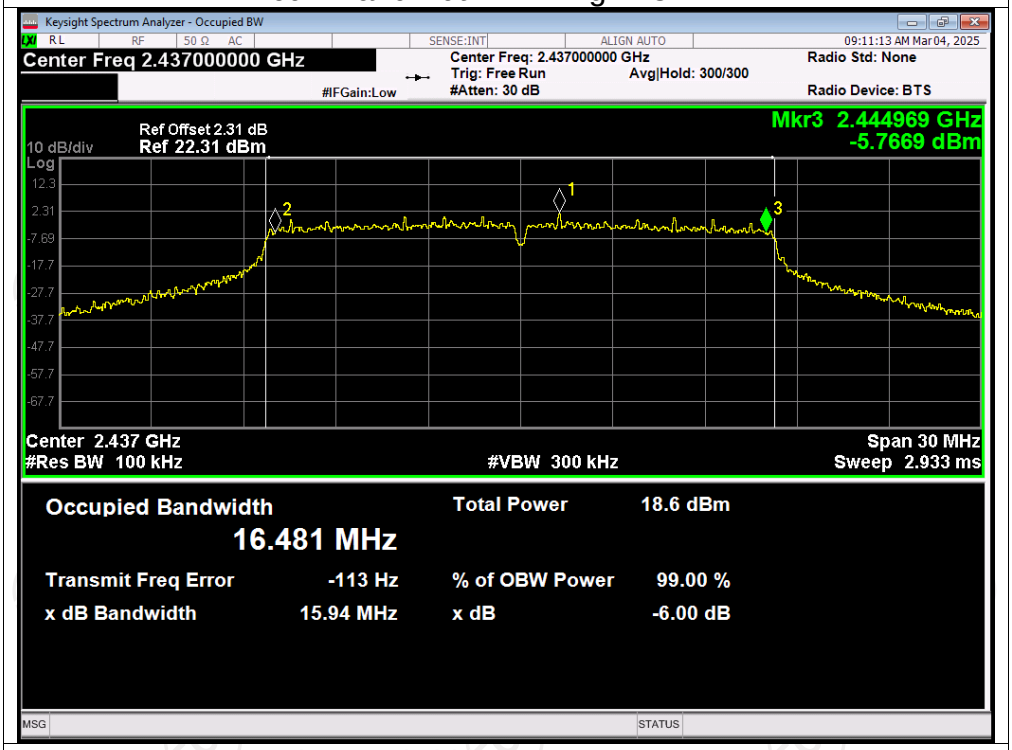
-6dB Bandwidth NVNT b 2462MHz



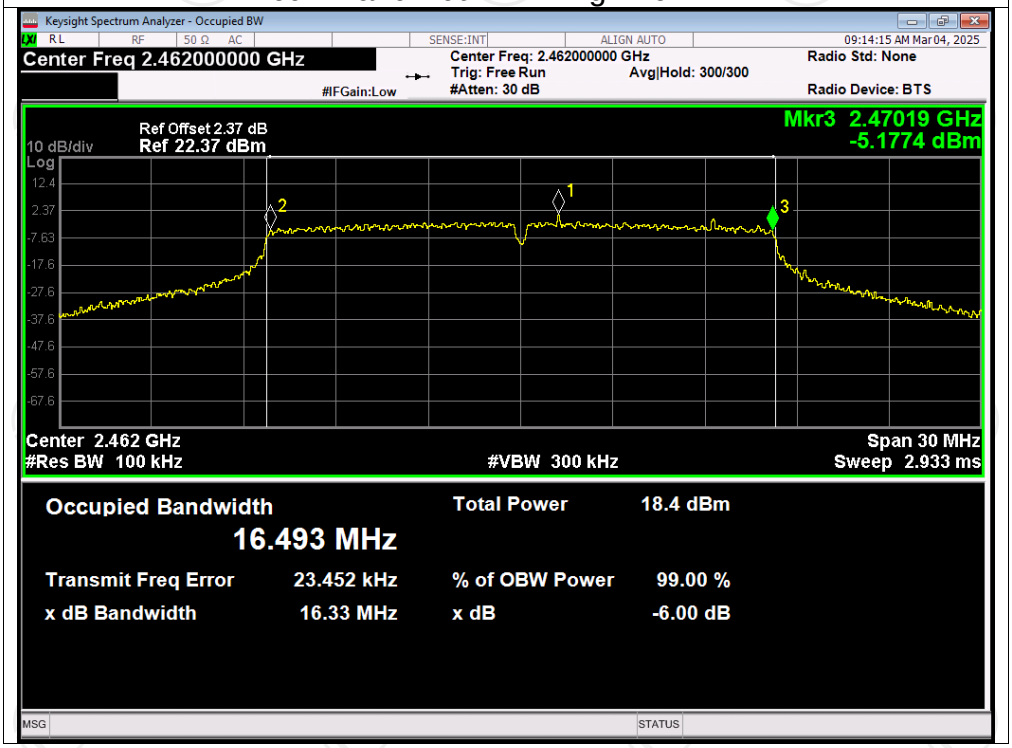
-6dB Bandwidth NVNT g 2412MHz



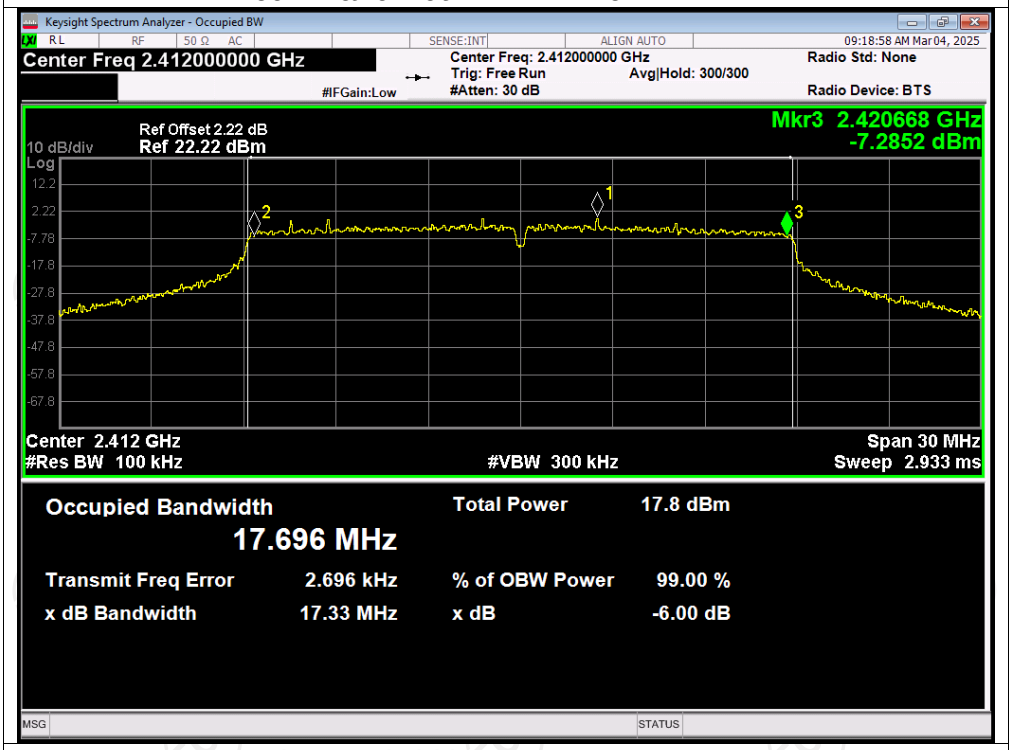
-6dB Bandwidth NVNT g 2437MHz



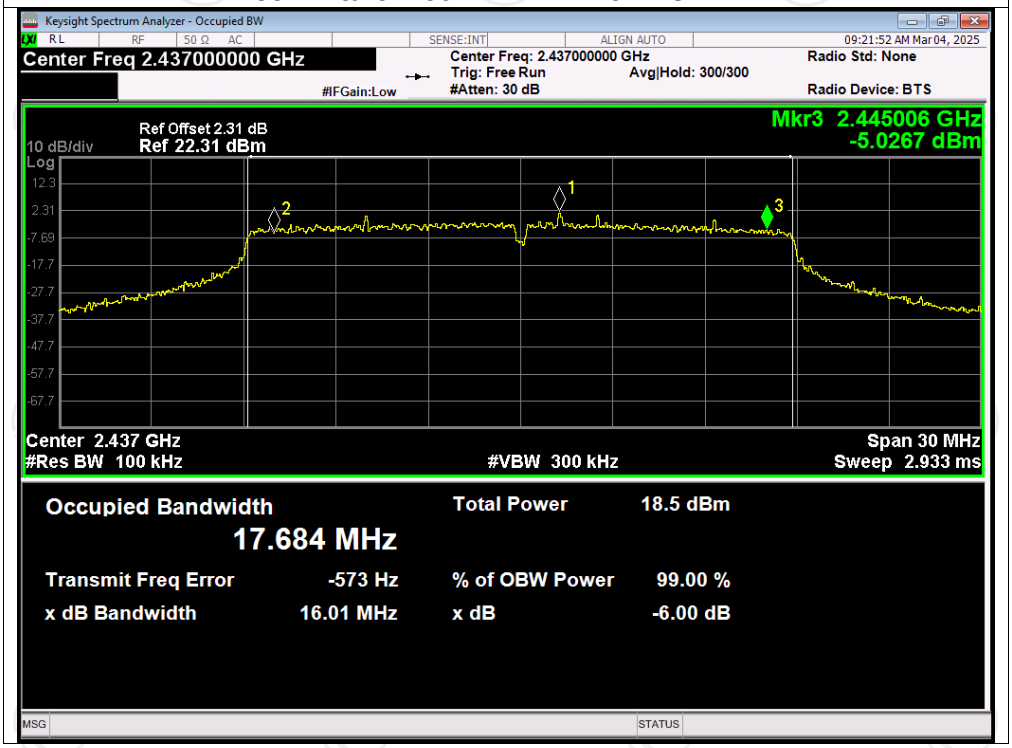
-6dB Bandwidth NVNT g 2462MHz



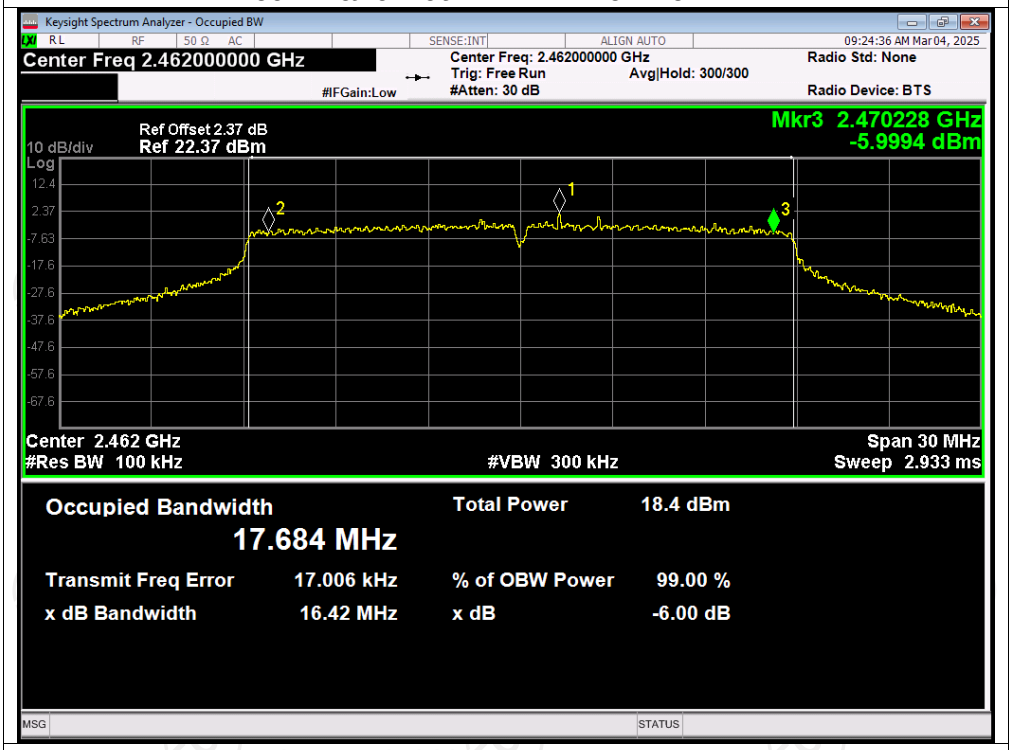
-6dB Bandwidth NVNT n20 2412MHz



-6dB Bandwidth NVNT n20 2437MHz



-6dB Bandwidth NVNT n20 2462MHz



-6dB Bandwidth NVNT n40 2422MHz