



FCC TEST REPORT

FCC ID: 2A8EM-B7PRO

On Behalf of

Bigme Cloud Literacy Technology Co., Ltd.

Tablet

Model No.: B7 Pro,B7 Pro Color, B7 Pro BW, B7 Pro XXXXX
(X represents 0-9, a-z, A-Z, "-", or space, used to distinguish different housing colors).

Prepared for : Bigme Cloud Literacy Technology Co., Ltd.
Address : 01 18F.,COFCO PROPERTY TOWER,BAOMIN NO.1RD., BAO
AN 3RD DISTRICT,SHENZHEN, CHINA

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West
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China

Report Number : psi2601078-C01-R03
Date of Receipt : Nov.18, 2025
Date of Test : Nov.19, 2025-Dec.03, 2025
Date of Report : January 29, 2026
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Bigme Cloud Literacy Technology Co., Ltd.
Address : 01 18F.,COFCO PROPERTY TOWER,BAOMIN NO.1RD., BAO AN 3RD
DISTRICT,SHENZHEN, CHINA
Manufacturer : Bigme Cloud Literacy Technology Co., Ltd.
Address : 01 18F.,COFCO PROPERTY TOWER,BAOMIN NO.1RD., BAO AN 3RD
DISTRICT,SHENZHEN, CHINA
EUT Description : Tablet

B7 Pro,B7 Pro Color, B7 Pro BW, B7 Pro XXXXX

(A) Model No. : (X represents 0-9, a-z, A-Z, "-", or space, used to distinguish different housing colors).

(B) Trademark : Bigme

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart E

ANSI C63.10-2020

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart E limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:

Felix Pang

Test Engineer



Approved by (name + signature).....:

Simple Guan

Project Manager



Date of issue.....:

January 29, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	January 29, 2026	Initial released Issue	Felix Pang



1 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203 Section	PASS
AC Power Line Conducted Emission	15.207 Section 7.2.4, 15.407(b)(9)	PASS
Occupied bandwidth	15.407(a), 15.407(e)	PASS
Maximum Conducted Output Power	15.407(a)(1)(iv)-(B1), (a)(3)(i)-(B4)	PASS
Power Spectral Density	15.407(a)(1)(iv)-(B1), (a)(3)(i)-(B4)	PASS
Radiated Emission	15.205, 15.209, 15.407(b)(1)-(B1), (4) -(B4)	PASS
Band Edge	15.407(b), 15.209	PASS
Frequency Stability	15.407(g)	PASS

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Frequency Stability: The manufacturer stated in the user's manual.
3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.
4. Measurement-method usage KDB 789033 D02 General UNII Test Procedures New Rules v02r01
5. All tests are according to ANSI C63.10-2020.

1.1 Measurement Uncertainty

Item	Uncertainty
Power Line Conducted Emissions Test	2.13dB
Radiation Emission test in 3m chamber(Below 30MHz)	4.07dB
Radiation Emission test in 3m chamber(30MHz to 1GHz)	4.51dB
Radiation Emission test in 3m chamber(1GHz to 18GHz)	5.07dB
Radiation Emission test in 3m chamber(18GHz to 40GHz)	5.21dB
Radio Frequency	48.24KHz
Conducted RF Power	0.41dB
Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Duty Cycle	1%
Conducted-Spurious Emission	1.26dB

2 General Information

2.1 General Description of EUT

EUT Name	: Tablet
Model	: B7 Pro, B7 Pro Color, B7 Pro BW, B7 Pro XXXXX (X represents 0-9, a-z, A-Z, "-", or space, used to distinguish different housing colors).
Diff	: All the model are the same circuit and RF module, except the model names and housing colors.
Test Voltage	: DC 3.85V From Battery or DC 5V /2A

Radio Technology	: 5G WIFI
Operation frequency	: 802.11a/802.11ac20/802.11n(HT20)/802.11ax20: 5180-5240MHz, 5745-5845MHz 802.11ac40/802.11n(HT40)/802.11ax40: 5190-5230MHz, 5755-5795MHz 802.11ac80/802.11ax80: 5210MHz, 5775MHz
Channel separation	: 20MHz for 802.11a/802.11ac20/802.11n(HT20)/802.11ax20 40MHz for 802.11ac40/ 802.11n(HT40)/802.11ax40 80MHz for 802.11ac80/802.11ax80
Modulation technology:	: IEEE 802.11n: OFDM (64QAM,16QAM,QPSK,BPSK) IEEE 802.11a: OFDM (64QAM,16QAM,QPSK,BPSK) IEEE 802.11ac: OFDM (64QAM,16QAM, 256QAM,QPSK,BPSK) IEEE 802.11ax: OFDMA (64QAM,16QAM, 256QAM,1024QAM QPSK,BPSK) For 802.11 ax modes, the device not support partial RU mode.
Antenna Type	: FPC Antenna, Maximum Gain is 2.86dBi.
PMN	: N/A
HVIN	: N/A
Software version	: N/A
Hardware version	: N/A
FVIN	: N/A
Note	: Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.

2.2 Operation frequency channel

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190MHz	40	5200MHz	42	5210MHz
44	5220MHz	46	5230MHz	48	5240MHz	/	/
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	151	5755MHz	153	5765MHz	155	5775MHz
157	5785MHz	159	5795MHz	161	5805MHz	/	/
165	5825MHz	/					

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:

Test channel	Frequency (MHz)		
	802.11 a /n20/ac20/ax20	802.11 n40/ac40/ax40	802.11ac80/ax80
Lowest channel	5180	5190	5210
Middle channel	5200		
Highest channel	5240	5230	

Test channel	Frequency (MHz)		
	802.11 a /n20/ac20/ax20	802.11 n40/ac40/ax40	802.11ac80/ax80
Lowest channel	5745	5755	5775
Middle channel	5785		
Highest channel	5825	5795	

2.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode and its maximum power control level.
Remark: For battery operated equipment, the EUT was performed using a new DC 3.85V battery.	

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:

Pretest Mode	Description
Mode 1	802.11a / n20/ ac20/ax20: CH36/CH40/CH48 802.11a /n 20/ac 20/ax20: CH149/CH157/CH165
Mode 2	802.11n 40/ac40/ax40: CH38/CH46 802.11n 40/ac40/ax40: CH 151/CH159
Mode 3	802.11 ac80/ax80: CH 42/CH155
Mode 4	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n20/ ac20/ax20: CH36/CH40/CH48 802.11a /n 20/ac 20/ax20: CH149/CH157/CH165
Mode 2	802.11n 40/ac40/ax40: CH38/CH46 802.11n 40/ac40/ax40: CH 151/CH159
Mode 3	802.11 ac80/ax80: CH 42/CH155

Note: The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.4 Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

September 21, 2023 Certificated by IC

Registration Number: 31123

CAB identifier: CN0158

2.5 Accessories of Device (EUT)

Accessories 1 : N/A

Manufacturer : N/A

Model : N/A

Rating : N/A

2.6 Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number
1	Adapter	Xiaomi	MDY-11-EM	N/A

2.7 Software test version and power setting information

Software testing version	Engineering instruction.” *## 3646633##*		
Mode	The client 's preset testing software is used to control the operation of EUT in continuous transmission mode and select the testing channel, wireless mode:		
Power level setup by client			
Mode	Channel	Frequency (MHz)	Soft Set
IEEE 802.11a/ n20/ac20/ax20	Low :CH36/149	5180/5745	TX level is set as defaults value.
	Middle: CH40/157	5200/5785	TX level is set as defaults value.
	High: CH48/165	5240/5825	TX level is set as defaults value.
IEEE 802.11n40/ac40/ax40	Low :CH38/151	5190/5755	TX level is set as defaults value.
	High:CH46/159	5230/5795	TX level is set as defaults value.
IEEE 802.11ac80/ax80	CH42/155	5210/5755	TX level is set as defaults value.

2.8 Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	26℃
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	101kPa

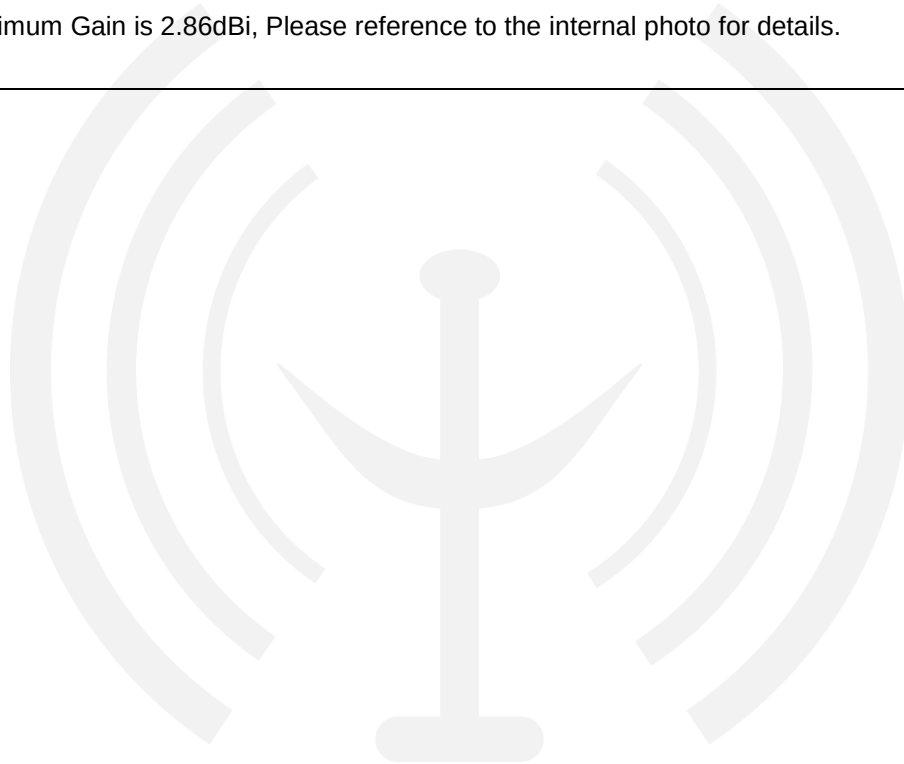
3 Test Instruments list

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2022.12.20	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV 216	102282	/	2024.12.18	1 Year
4.	L.I.S.N.#2	EMCO	3810-2	00094944	/	2024.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV40-N	101648	3.70	2024.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LNPA_0118 G-50	SK20220329 01	/	2024.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_1840 G-50	SK20190403 02	/	2024.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02 -1111533-Fz	/	2024.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P0 08	/	2024.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2024.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2024.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10 A	20221125163 8	/	2024.12.18	1 Year
17.	Cable	SKET	Cable-RE-1	#02/#03	/	2024.12.18	1 Year
18.	Cable	SKET	Cable-RE-2	#01	/	2024.12.18	1 Year
19.	Cable	SKET	Cable-RE-3	#04	/	2024.12.18	1 Year
20.	Cable	SKET	Cable-CE-1	A-E-24	/	2024.12.18	1 Year
21.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2024.12.18	1 Year
22.	Power meter	Agilent	E4419B	GB40202121	/	2024.12.18	1 Year
23.	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	/	2024.12.18	1 Year
For Test Software Information							
Item	Software Name	Manufacturer			Version		
RE	EZ EMC	Farad			PSI-3A1		
CE	EZ EMC	Farad			PSI-3A1		

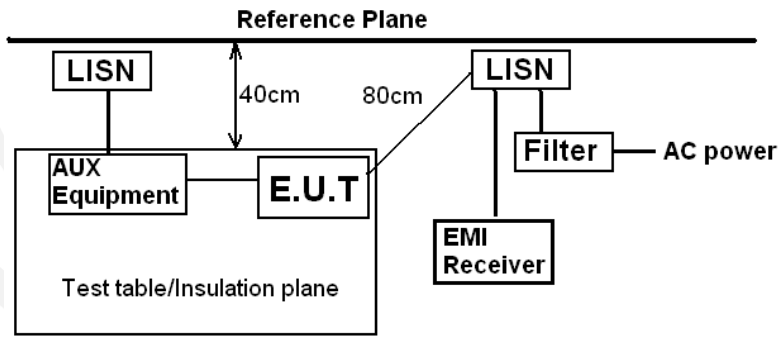
4 Test results and Measurement Data

4.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 Section 7.1.4
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.	
E.U.T Antenna:	
FPC antenna, Maximum Gain is 2.86dBi, Please reference to the internal photo for details.	



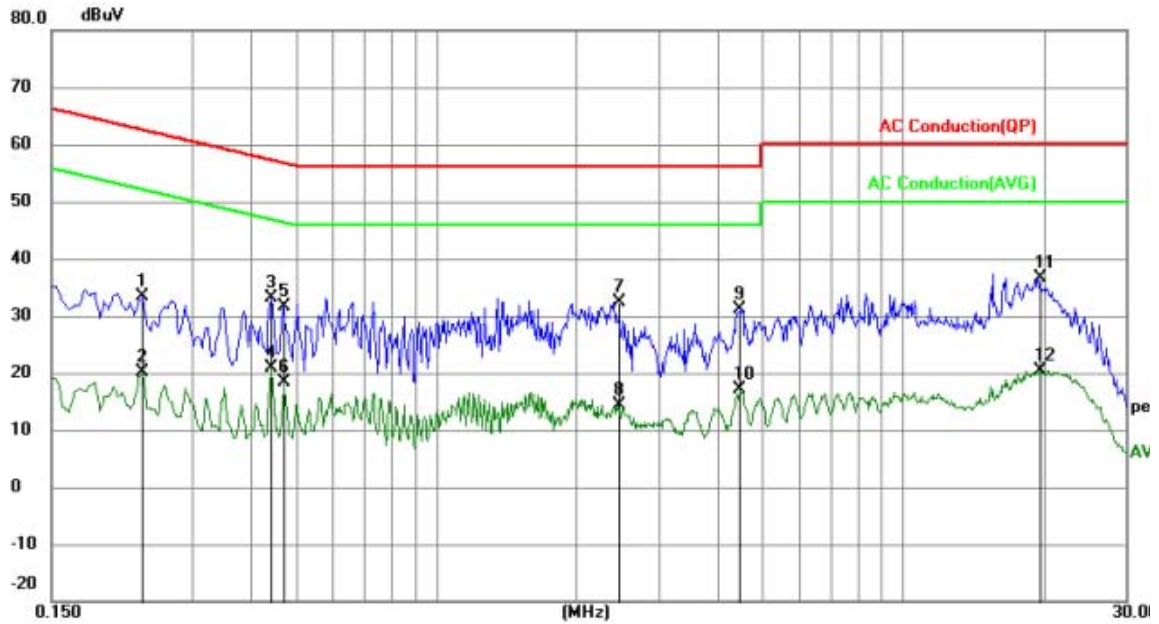
4.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207 Section 7.2.4, 15.407(b)(9)															
Test Method:	ANSI C63.10-2020															
Test Frequency Range:	150KHz to 30MHz															
Class / Severity:	Class B															
Receiver setup:	RBW=9KHz, VBW=30KHz															
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr> <tr> <th>Quasi-peak</th><th>Average</th></tr> </thead> <tbody> <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> </tbody> </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														
	* Decreases with the logarithm of the frequency.															
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 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 setup:	 <i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m															
Test Instruments:	Refer to section 3.0 for details															
Test mode:	Refer to section 2.2 for details															
Test results:	Pass															

Measurement Data

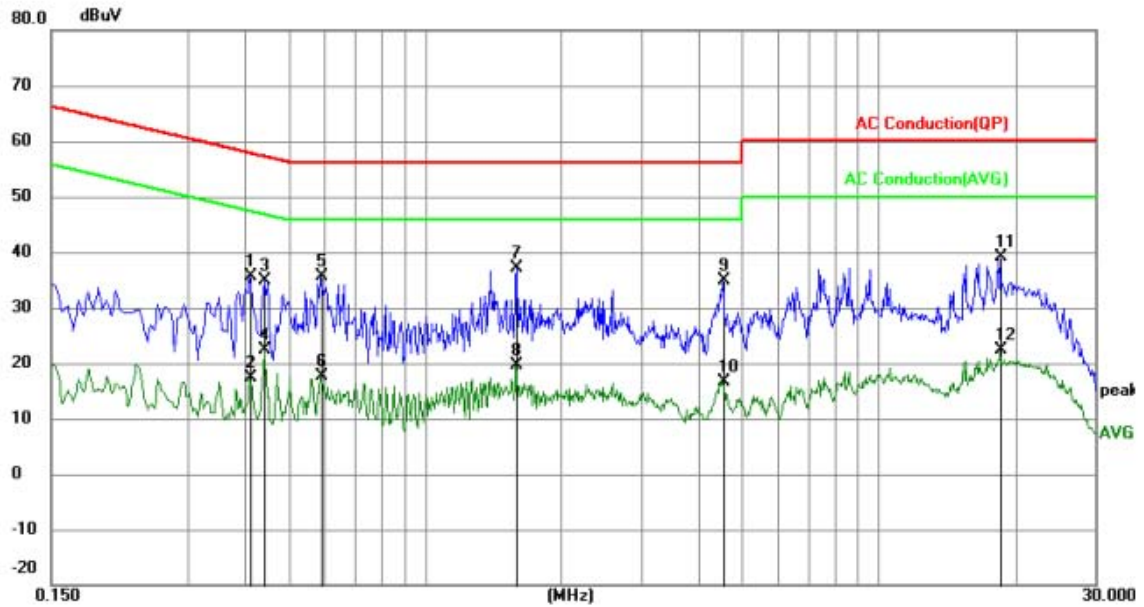
An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2353	23.67	9.82	33.49	62.26	-28.77	QP
2	0.2353	10.19	9.82	20.01	52.26	-32.25	AVG
3	0.4421	23.14	9.92	33.06	57.02	-23.96	QP
4	0.4421	10.86	9.92	20.78	47.02	-26.24	AVG
5	0.4736	21.67	9.93	31.60	56.45	-24.85	QP
6	0.4736	8.48	9.93	18.41	46.45	-28.04	AVG
7	2.4476	22.43	9.84	32.27	56.00	-23.73	QP
8	2.4476	4.56	9.84	14.40	46.00	-31.60	AVG
9	4.4540	21.40	9.83	31.23	56.00	-24.77	QP
10	4.4540	7.27	9.83	17.10	46.00	-28.90	AVG
11	19.6354	27.04	9.68	36.72	60.00	-23.28	QP
12	19.6354	10.73	9.68	20.41	50.00	-29.59	AVG

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

Neutral:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4110	25.69	9.90	35.59	57.63	-22.04	QP
2	0.4110	7.38	9.90	17.28	47.63	-30.35	AVG
3	0.4425	25.07	9.92	34.99	57.01	-22.02	QP
4	0.4425	12.48	9.92	22.40	47.01	-24.61	AVG
5	0.5909	25.64	9.94	35.58	56.00	-20.42	QP
6	0.5909	7.81	9.94	17.75	46.00	-28.25	AVG
7	1.5900	27.15	9.90	37.05	56.00	-18.95	QP
8	1.5900	9.63	9.90	19.53	46.00	-26.47	AVG
9	4.5285	25.13	9.84	34.97	56.00	-21.03	QP
10	4.5285	6.86	9.84	16.70	46.00	-29.30	AVG
11	18.5955	29.46	9.70	39.16	60.00	-20.84	QP
12	18.5955	12.78	9.70	22.48	50.00	-27.52	AVG

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

All modes and channels have been tested and only the A 5180MHz mode with the worst data is listed.

4.3 Emission Bandwidth and 99% Occupied Bandwidth

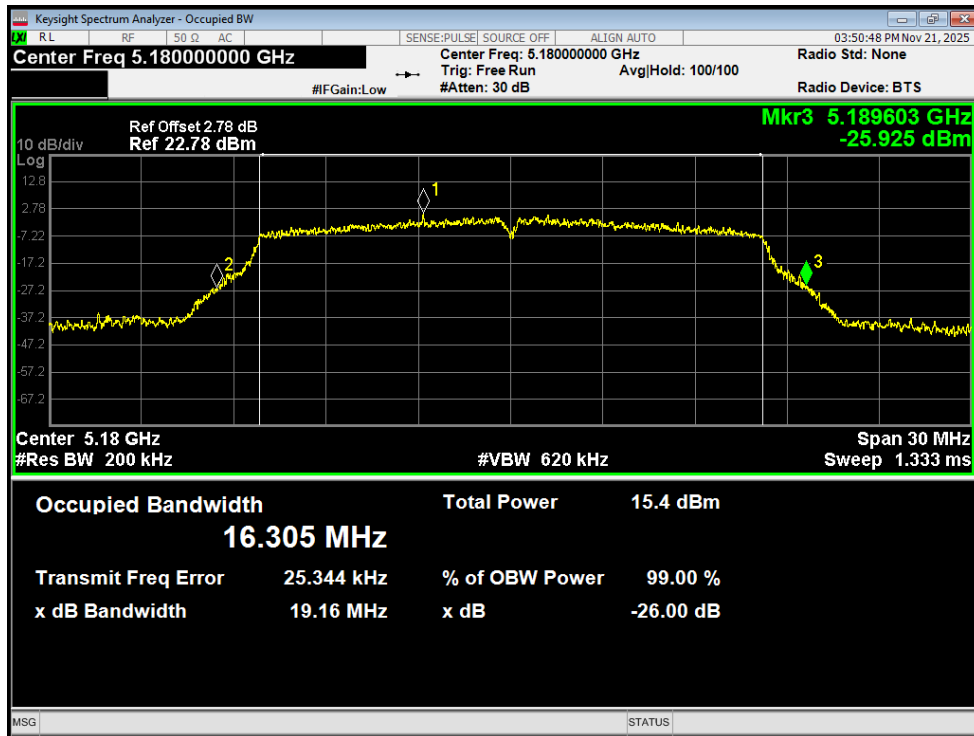
Test Requirement:	FCC Part15 E Section 15.407(a), 15.407(e)
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	N/A
Test setup:	 The diagram illustrates the test setup. On the left is a green box labeled 'Spectrum Analyzer' with a blue screen and two small circles representing ports. On the right is a yellow box labeled 'EUT' with a single circle representing a port. A black cable connects the two ports.
Test procedure:	According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data:

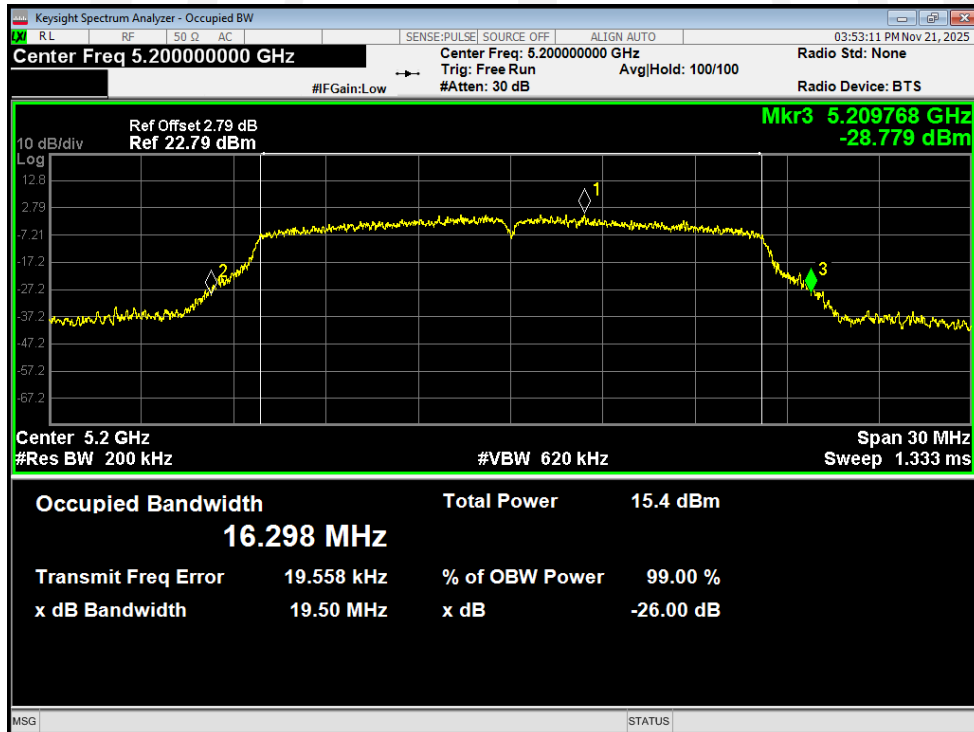
5180-5240MHz

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	19.16	Pass
NVNT	a	5200	19.50	Pass
NVNT	a	5240	19.50	Pass
NVNT	n20	5180	19.98	Pass
NVNT	n20	5200	20.18	Pass
NVNT	n20	5240	19.96	Pass
NVNT	n40	5190	40.24	Pass
NVNT	n40	5230	40.36	Pass
NVNT	ac20	5180	19.86	Pass
NVNT	ac20	5200	20.01	Pass
NVNT	ac20	5240	20.03	Pass
NVNT	ac40	5190	40.10	Pass
NVNT	ac40	5230	40.37	Pass
NVNT	ac80	5210	79.84	Pass
NVNT	ax20	5180	19.84	Pass
NVNT	ax20	5200	19.78	Pass
NVNT	ax20	5240	19.76	Pass
NVNT	ax40	5190	39.34	Pass
NVNT	ax40	5230	39.34	Pass
NVNT	ax80	5210	80.05	Pass

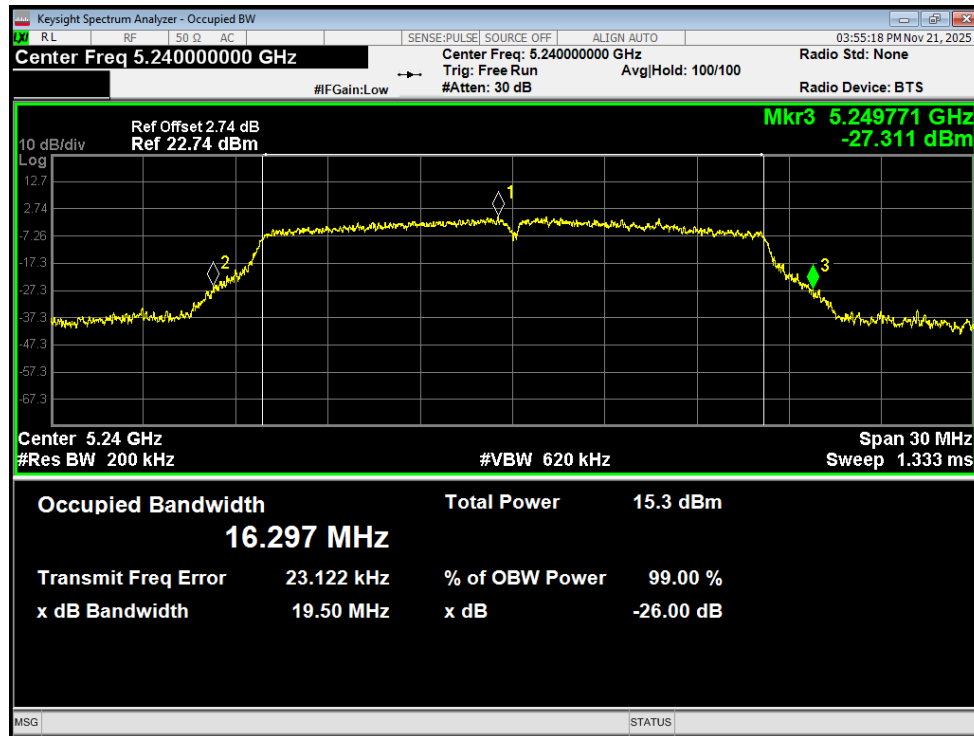
-26dB Bandwidth NVNT a 5180MHz Ant1



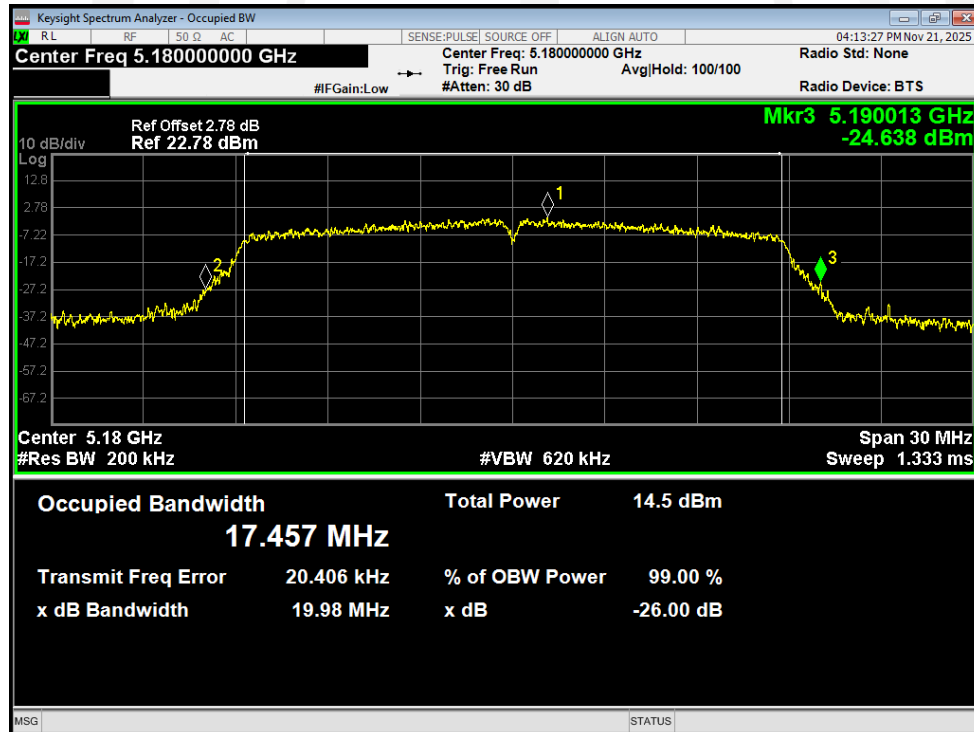
-26dB Bandwidth NVNT a 5200MHz Ant1

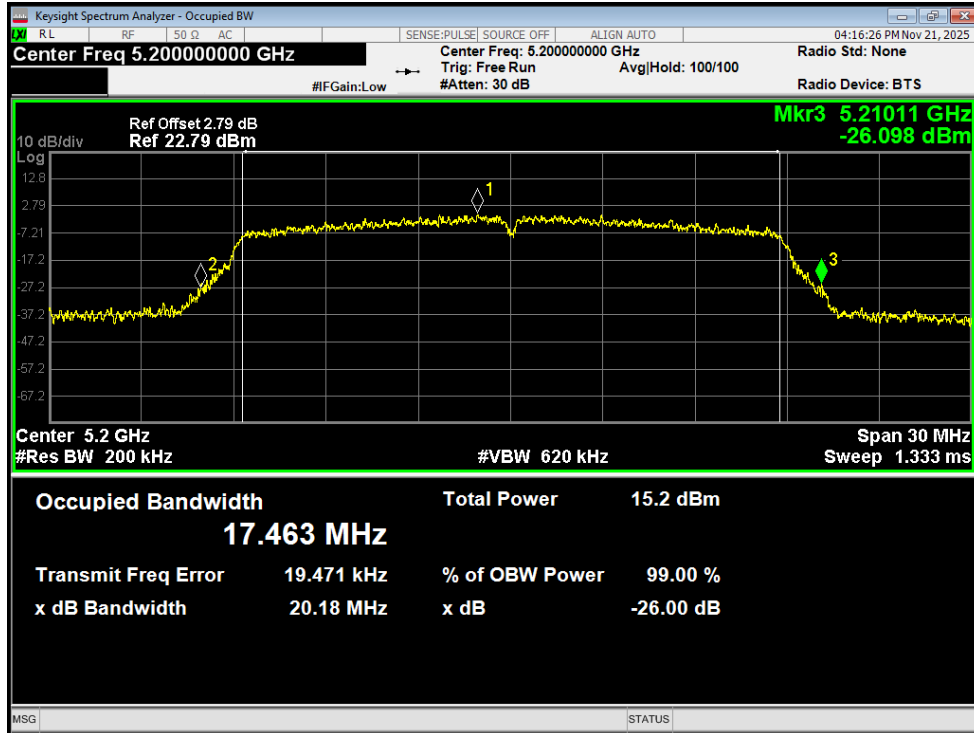
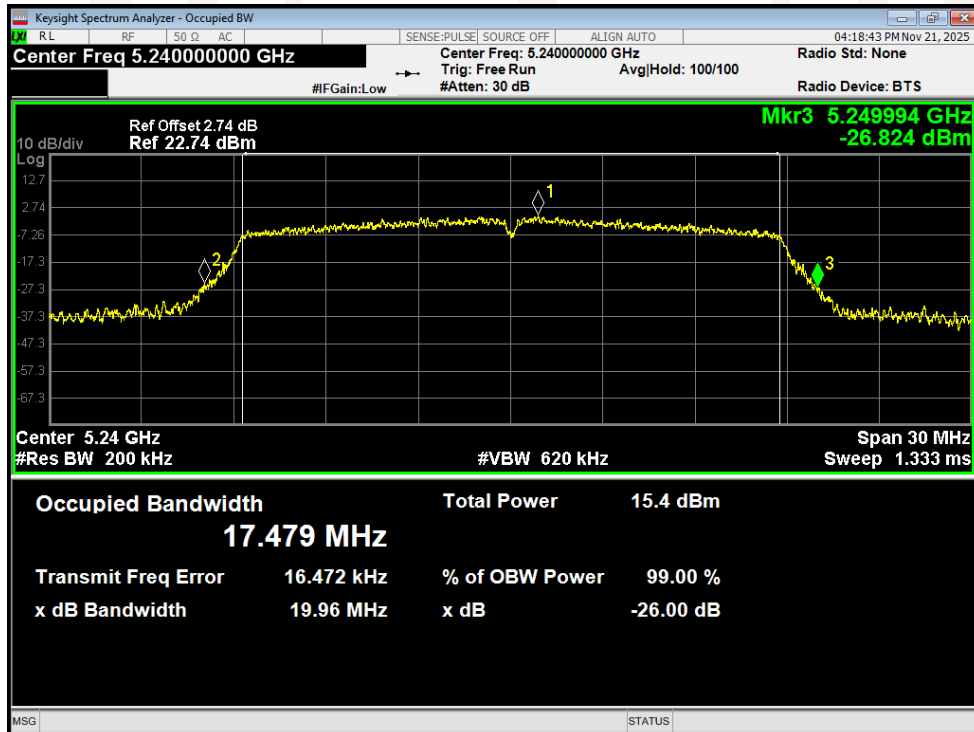


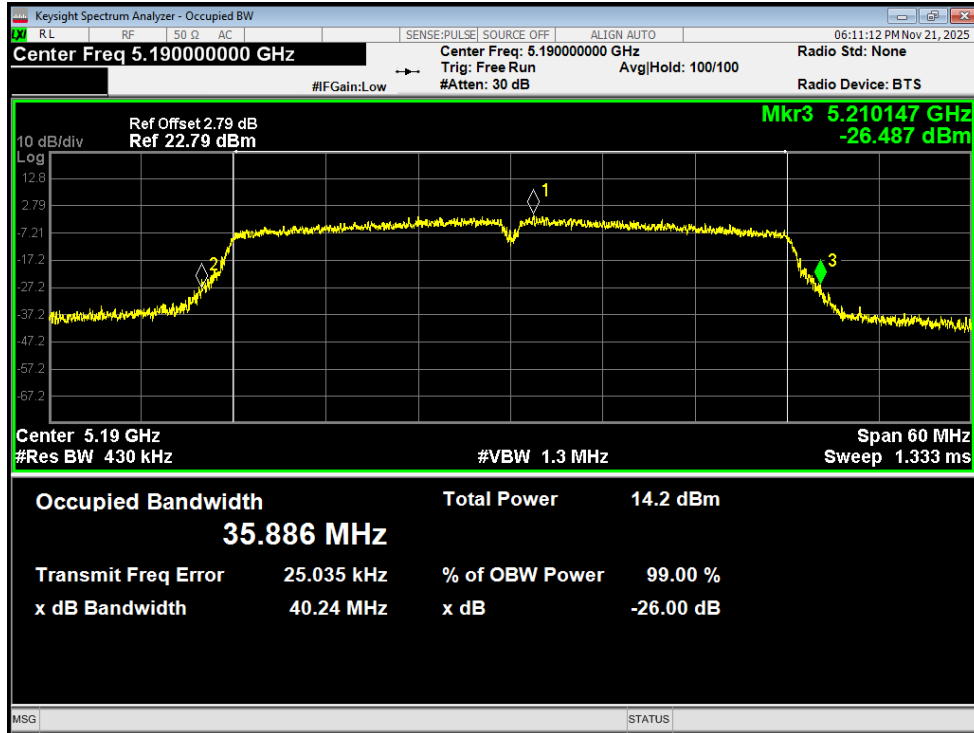
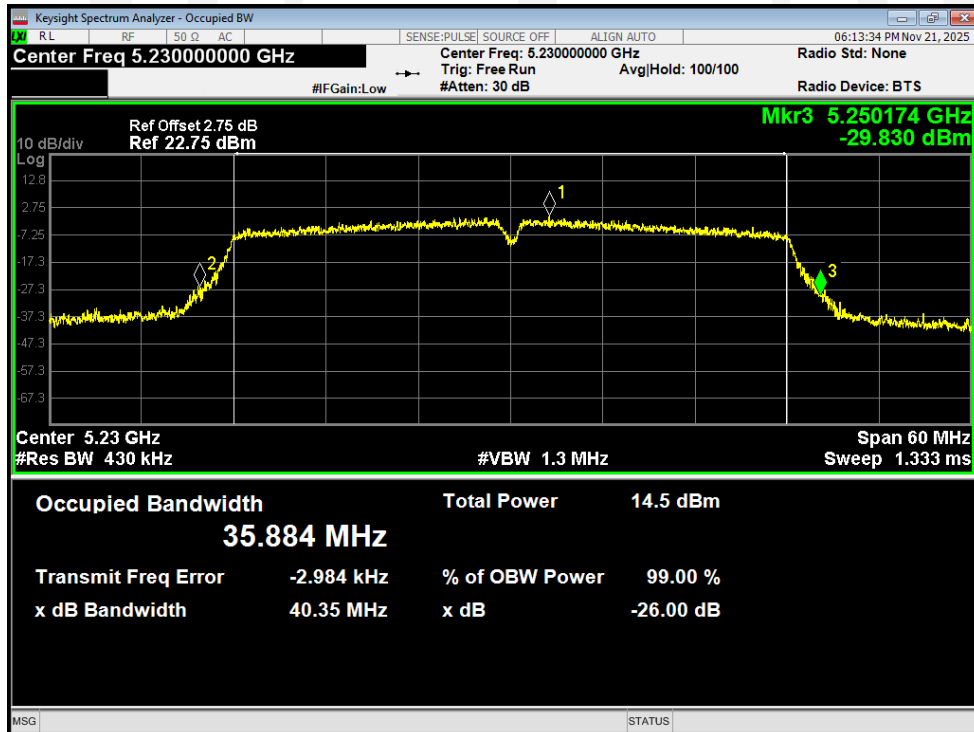
-26dB Bandwidth NVNT a 5240MHz Ant1



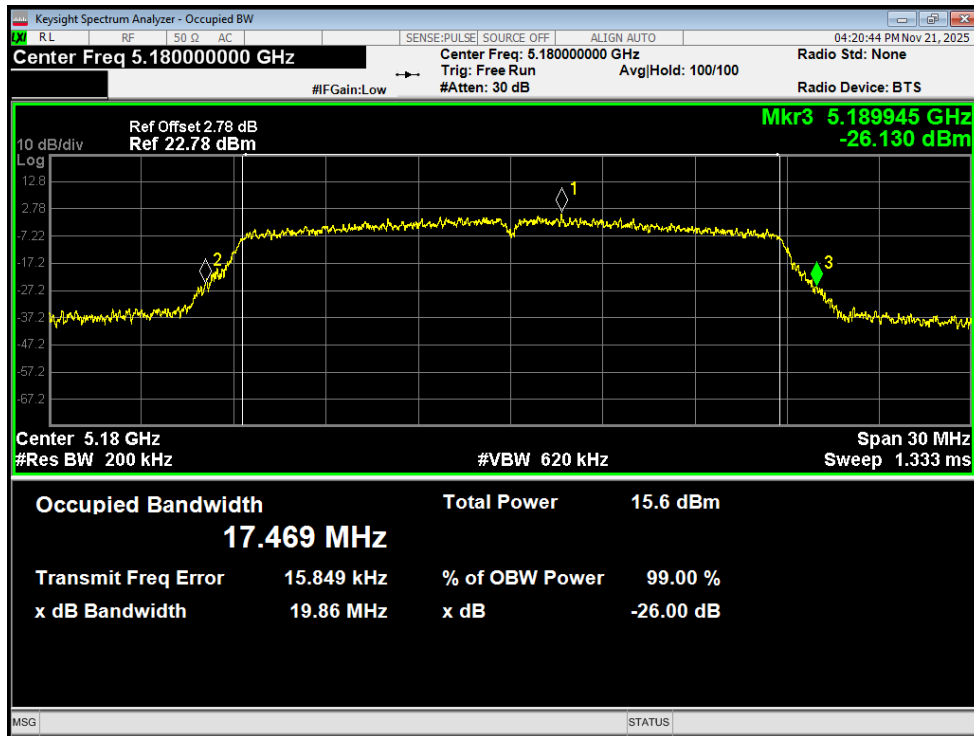
-26dB Bandwidth NVNT n20 5180MHz Ant1



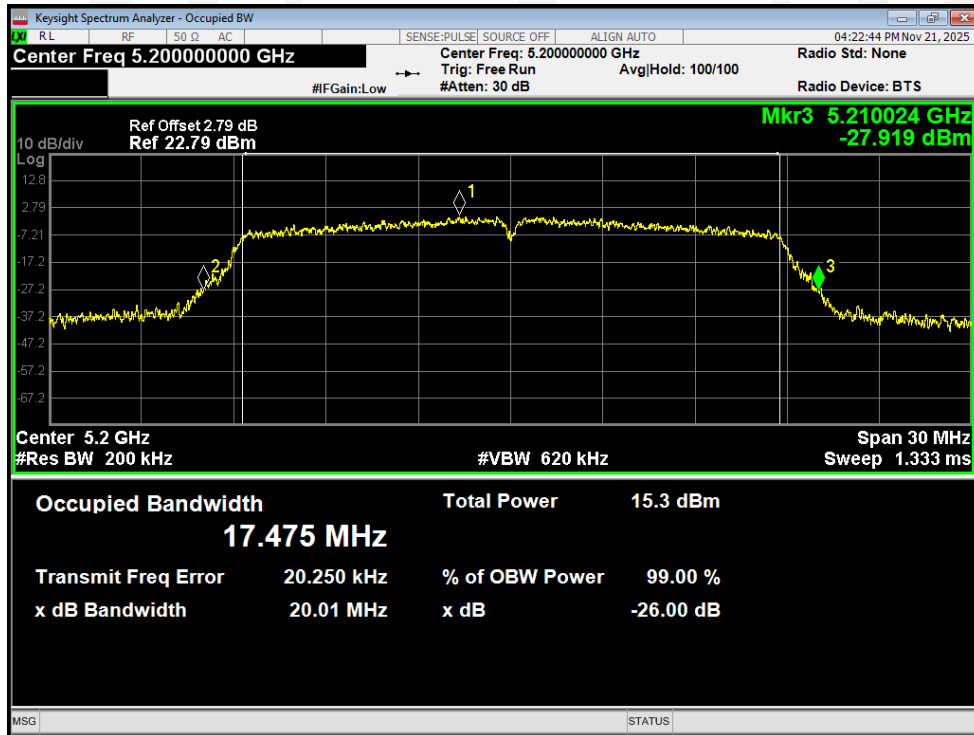
-26dB Bandwidth NVNT n20 5200MHz Ant1**-26dB Bandwidth NVNT n20 5240MHz Ant1**

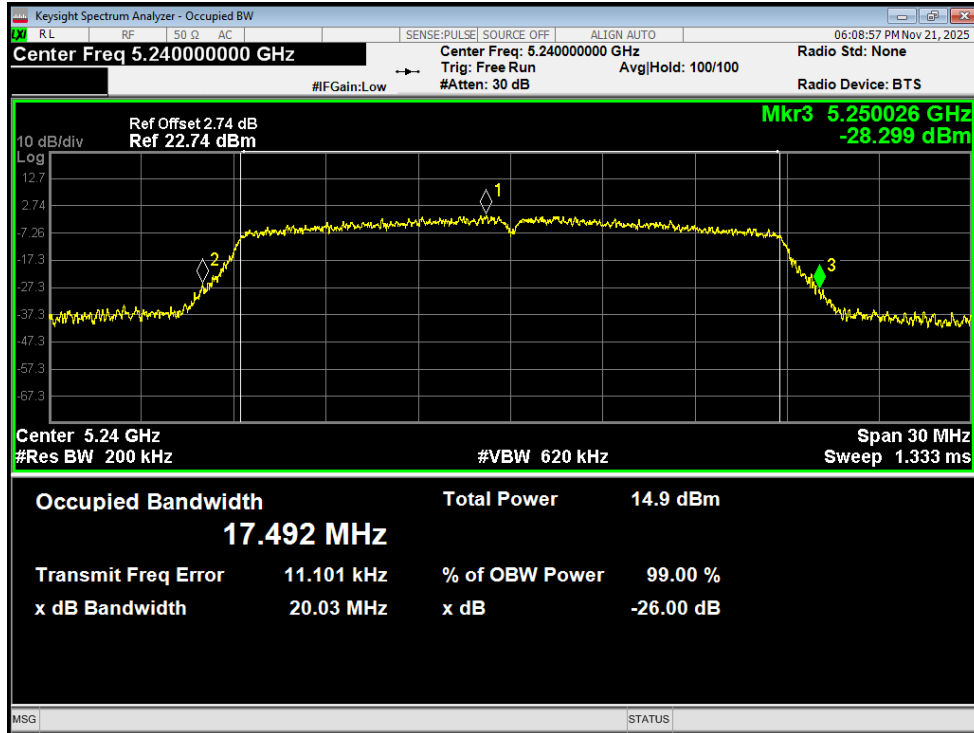
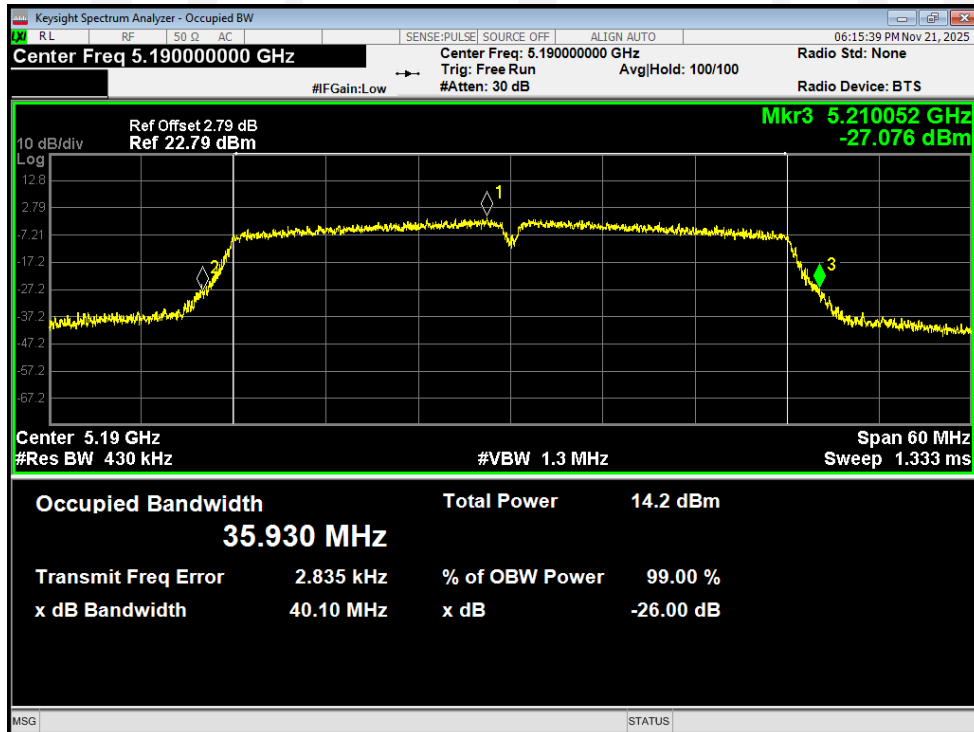
-26dB Bandwidth NVNT n40 5190MHz Ant1**-26dB Bandwidth NVNT n40 5230MHz Ant1**

-26dB Bandwidth NVNT ac20 5180MHz Ant1

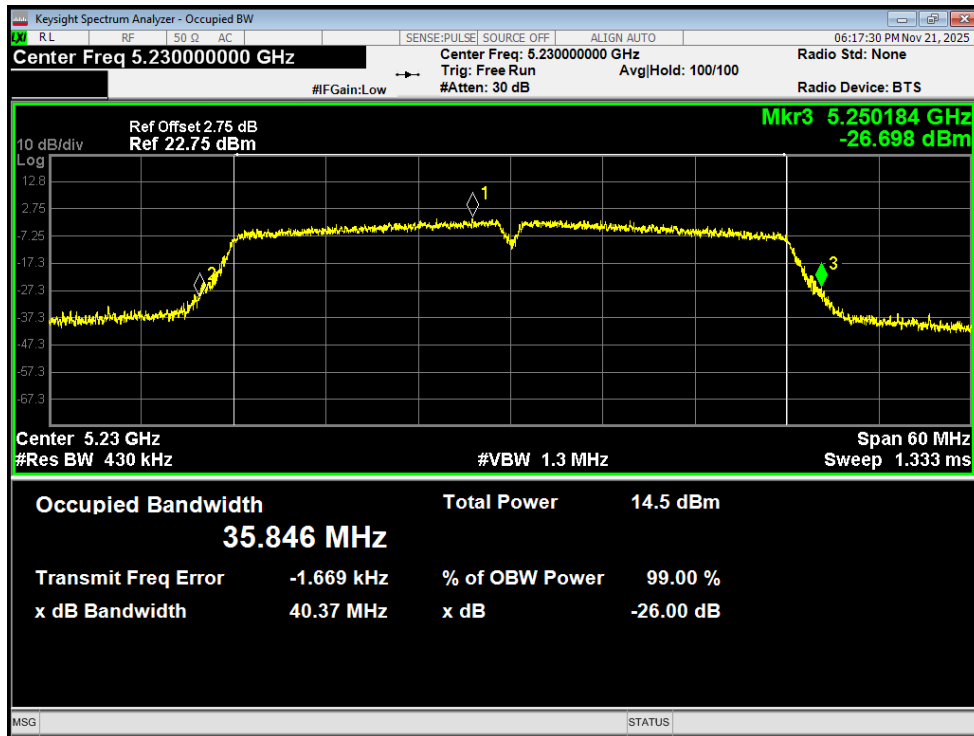


-26dB Bandwidth NVNT ac20 5200MHz Ant1

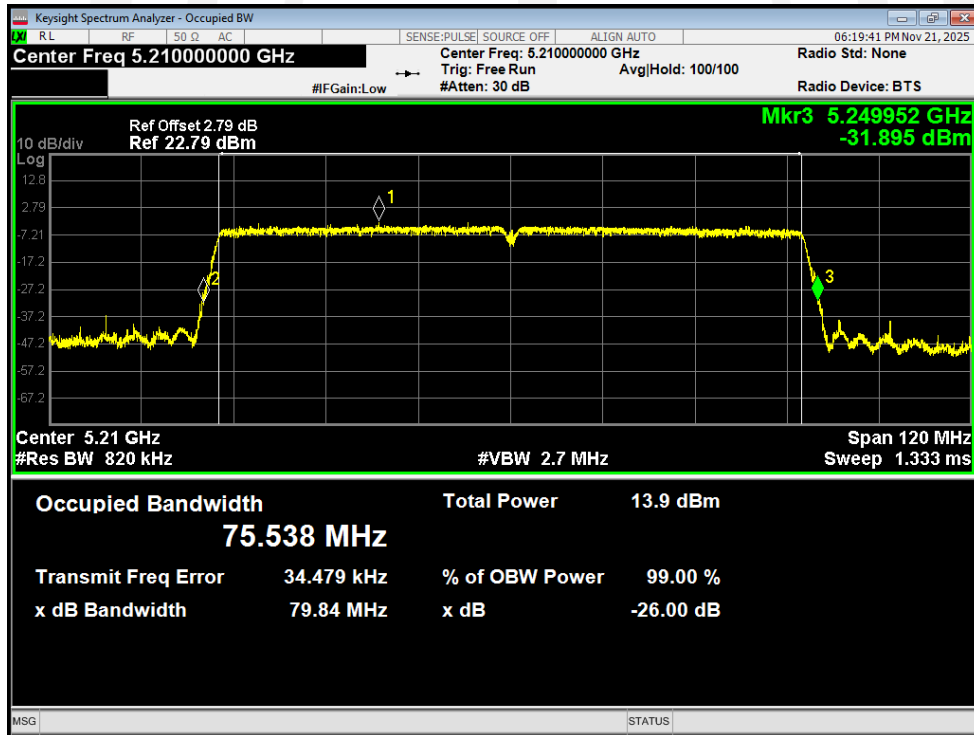


-26dB Bandwidth NVNT ac20 5240MHz Ant1**-26dB Bandwidth NVNT ac40 5190MHz Ant1**

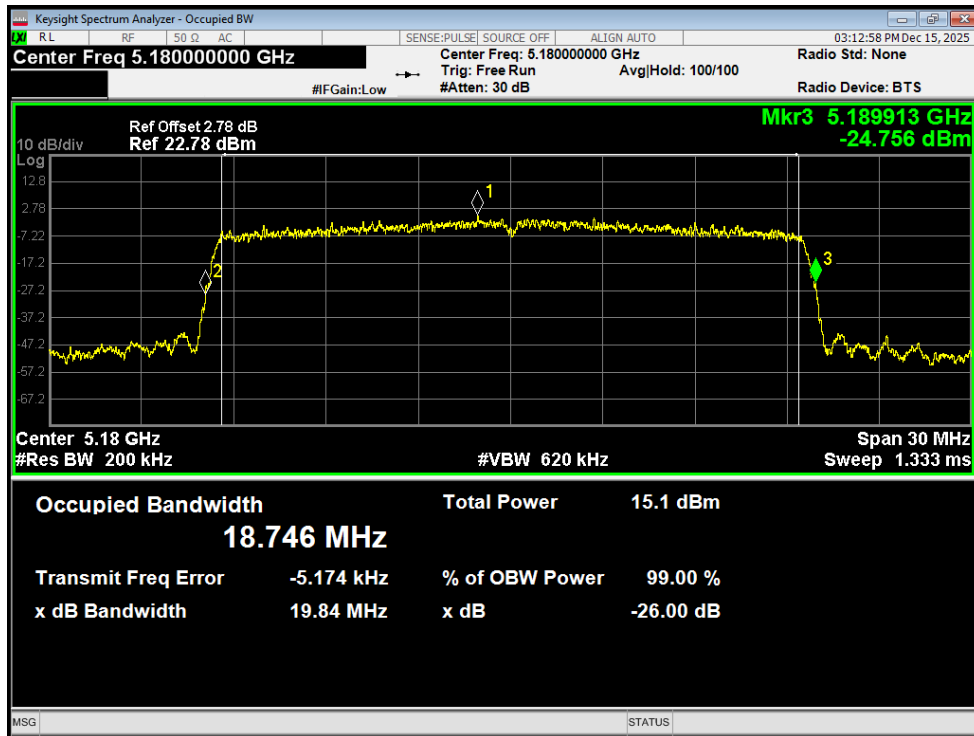
-26dB Bandwidth NVNT ac40 5230MHz Ant1



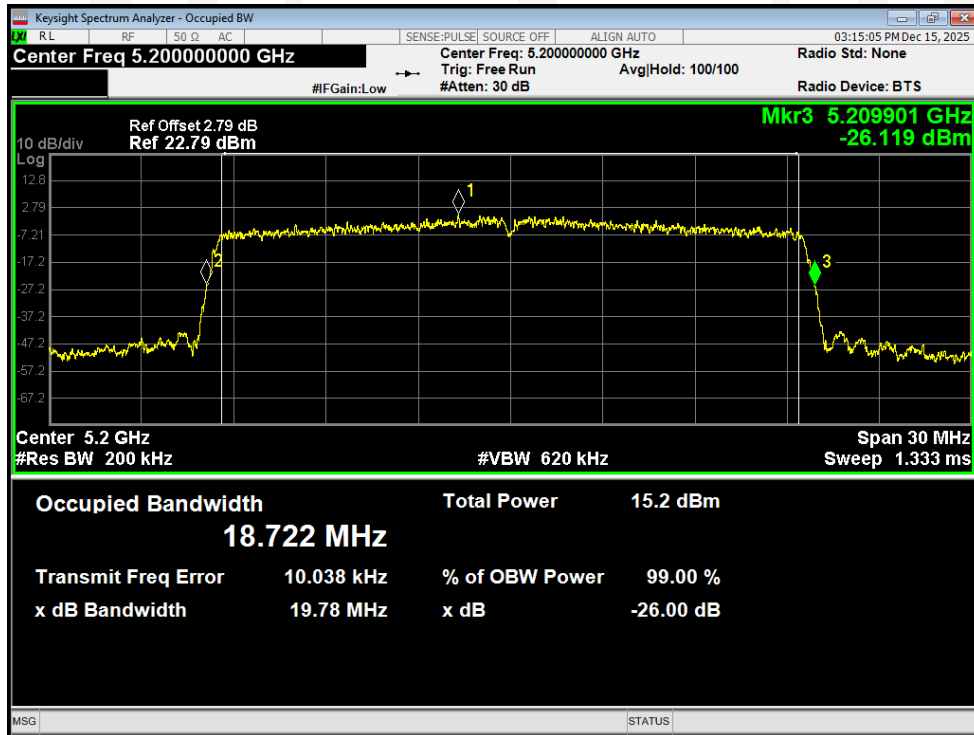
-26dB Bandwidth NVNT ac80 5210MHz Ant1

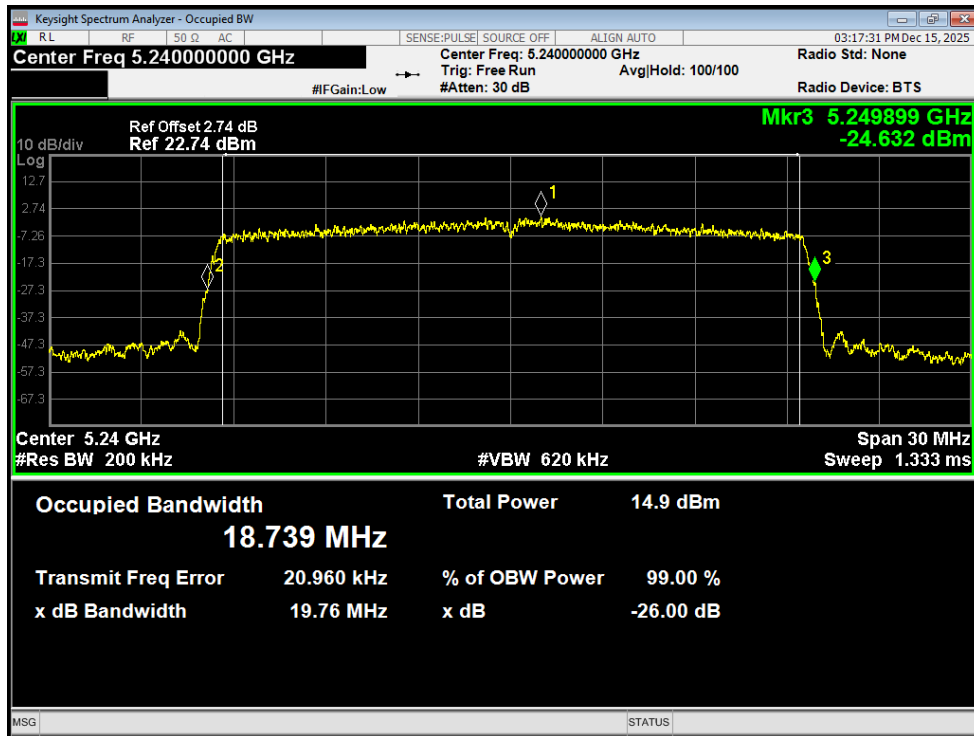
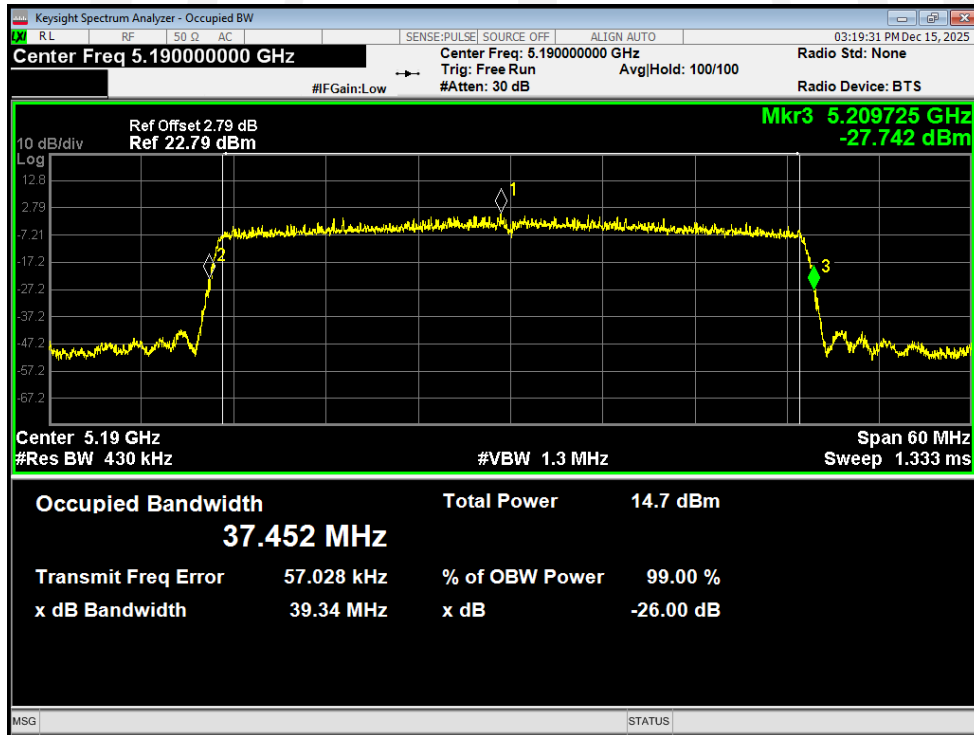


-26dB Bandwidth NVNT ax20 5180MHz Ant1

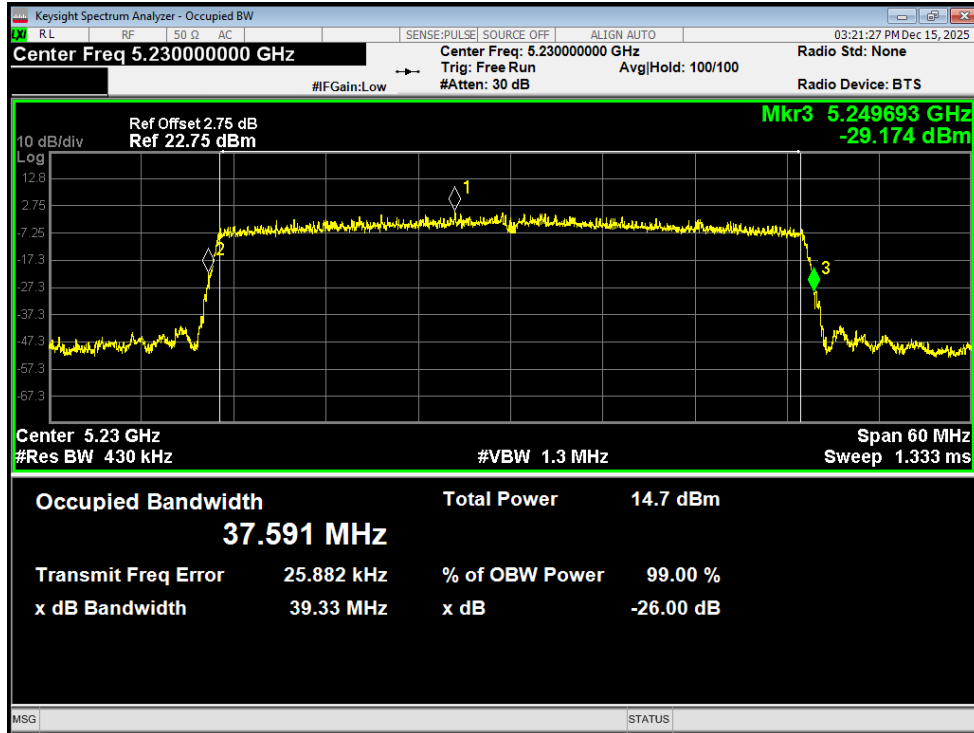


-26dB Bandwidth NVNT ax20 5200MHz Ant1

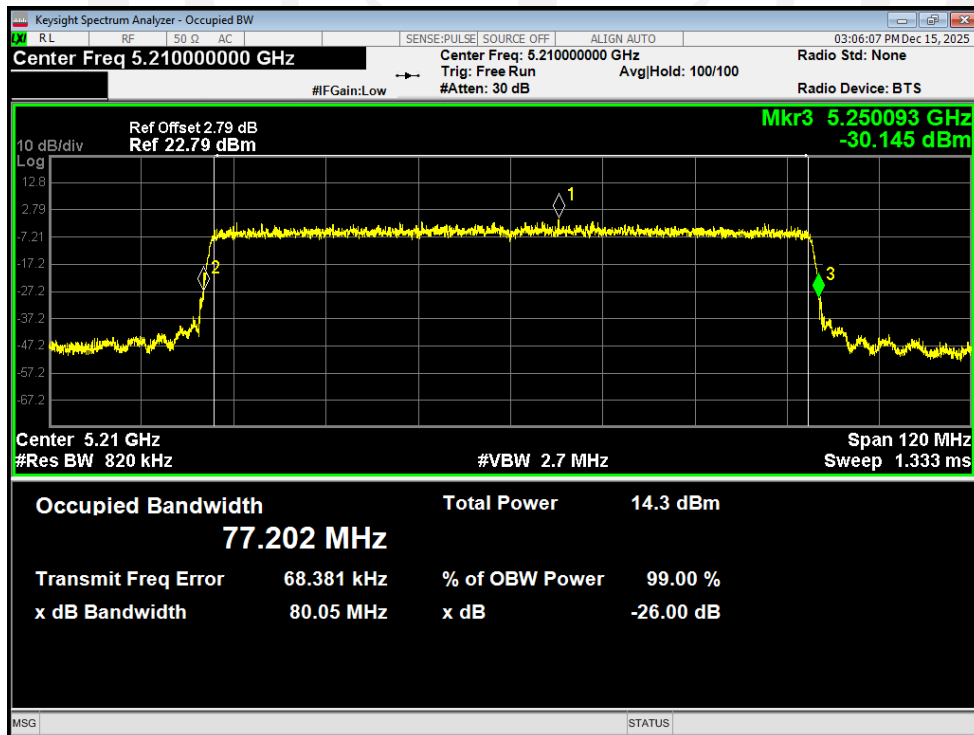


-26dB Bandwidth NVNT ax20 5240MHz Ant1**-26dB Bandwidth NVNT ax40 52190MHz Ant1**

-26dB Bandwidth NVNT ax40 5230MHz Ant1



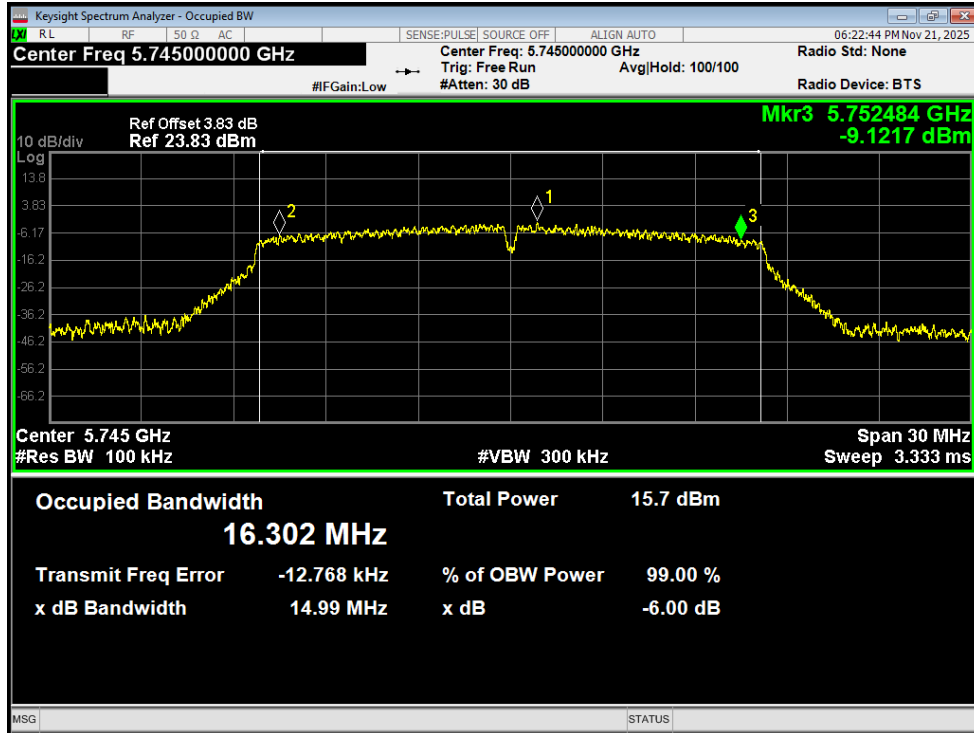
-26dB Bandwidth NVNT ax80 5210MHz Ant1



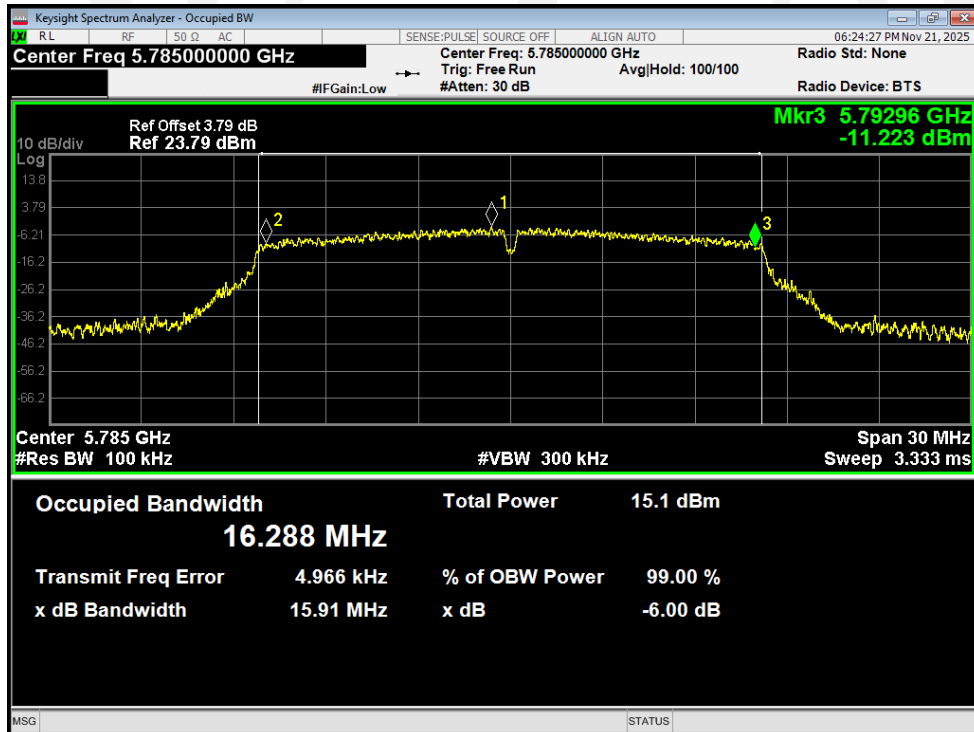
5745-5825MHz

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	14.99	0.5	Pass
NVNT	a	5785	15.91	0.5	Pass
NVNT	a	5825	15.24	0.5	Pass
NVNT	n20	5745	16.80	0.5	Pass
NVNT	n20	5785	16.92	0.5	Pass
NVNT	n20	5825	17.04	0.5	Pass
NVNT	n40	5755	35.59	0.5	Pass
NVNT	n40	5795	35.42	0.5	Pass
NVNT	ac20	5745	17.51	0.5	Pass
NVNT	ac20	5785	17.51	0.5	Pass
NVNT	ac20	5825	16.66	0.5	Pass
NVNT	ac40	5755	36.06	0.5	Pass
NVNT	ac40	5795	36.12	0.5	Pass
NVNT	ac80	5775	76.46	0.5	Pass
NVNT	ax20	5745	16.91	0.5	Pass
NVNT	ax20	5785	18.51	0.5	Pass
NVNT	ax20	5825	17.98	0.5	Pass
NVNT	ax40	5755	37.60	0.5	Pass
NVNT	ax40	5795	37.01	0.5	Pass
NVNT	ax80	5775	78.06	0.5	Pass

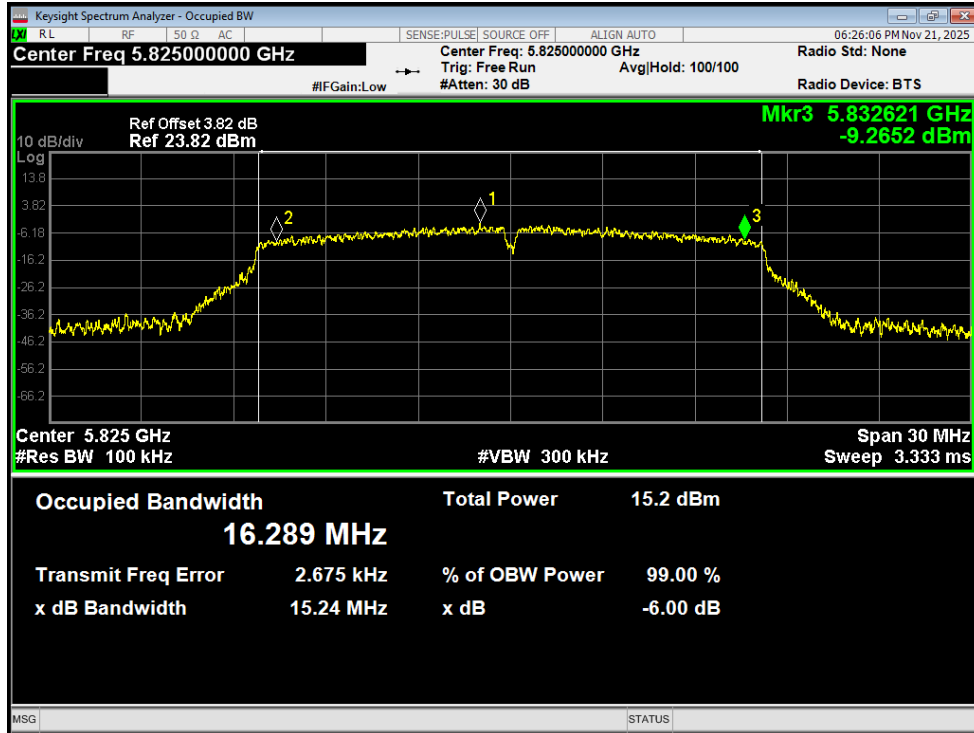
-6dB Bandwidth NVNT a 5745MHz Ant1



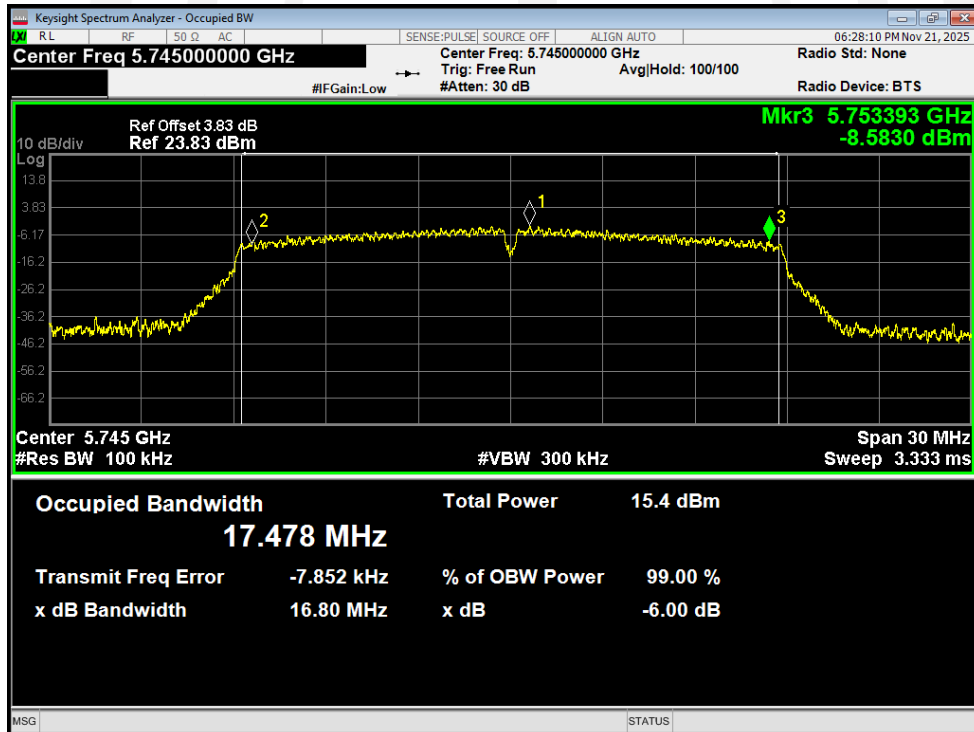
-6dB Bandwidth NVNT a 5785MHz Ant1



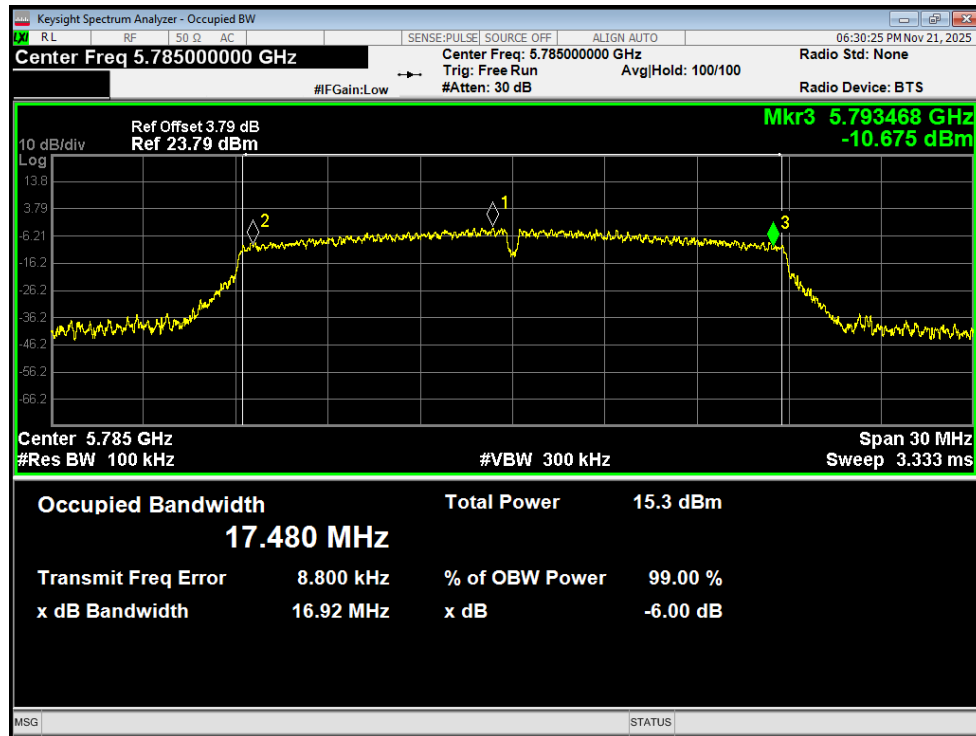
-6dB Bandwidth NVNT a 5825MHz Ant1



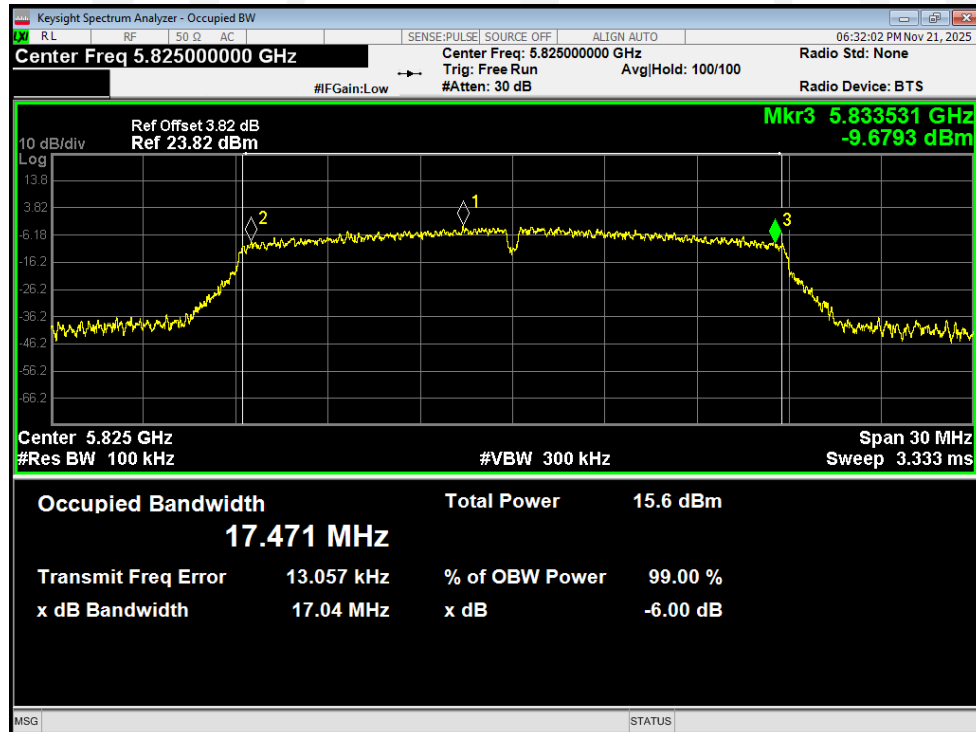
-6dB Bandwidth NVNT n20 5745MHz Ant1



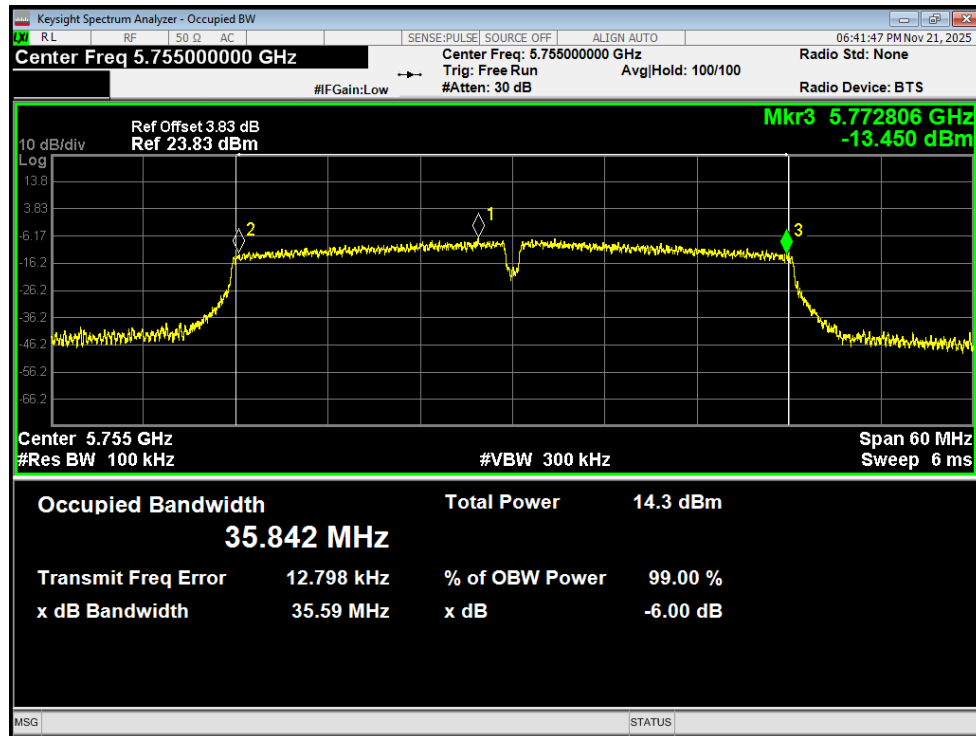
-6dB Bandwidth NVNT n20 5785MHz Ant1



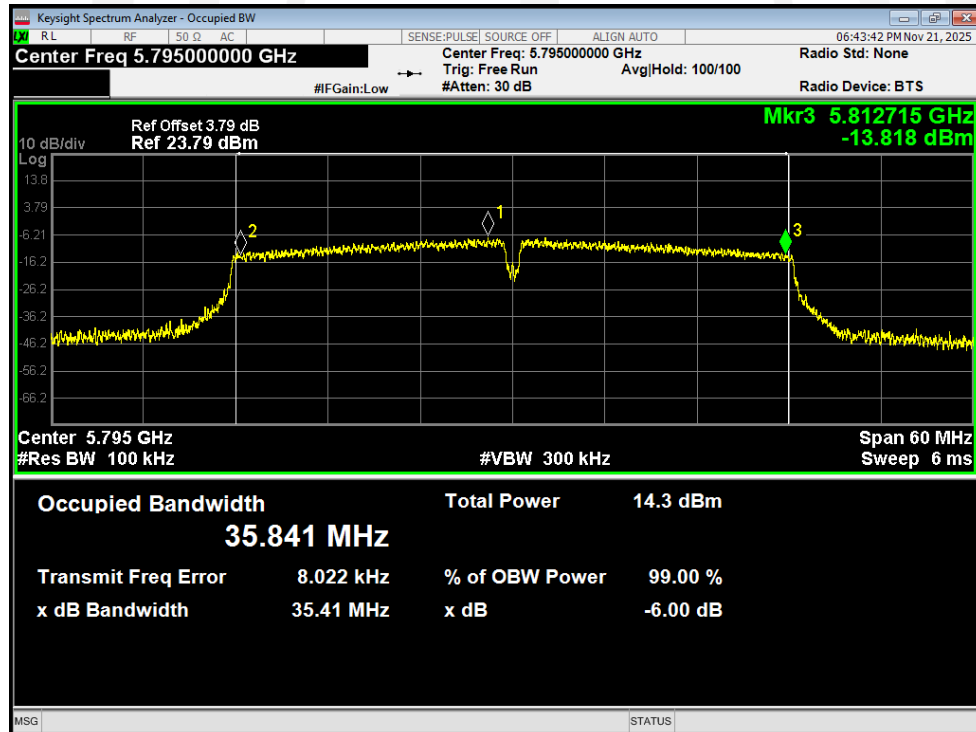
-6dB Bandwidth NVNT n20 5825MHz Ant1

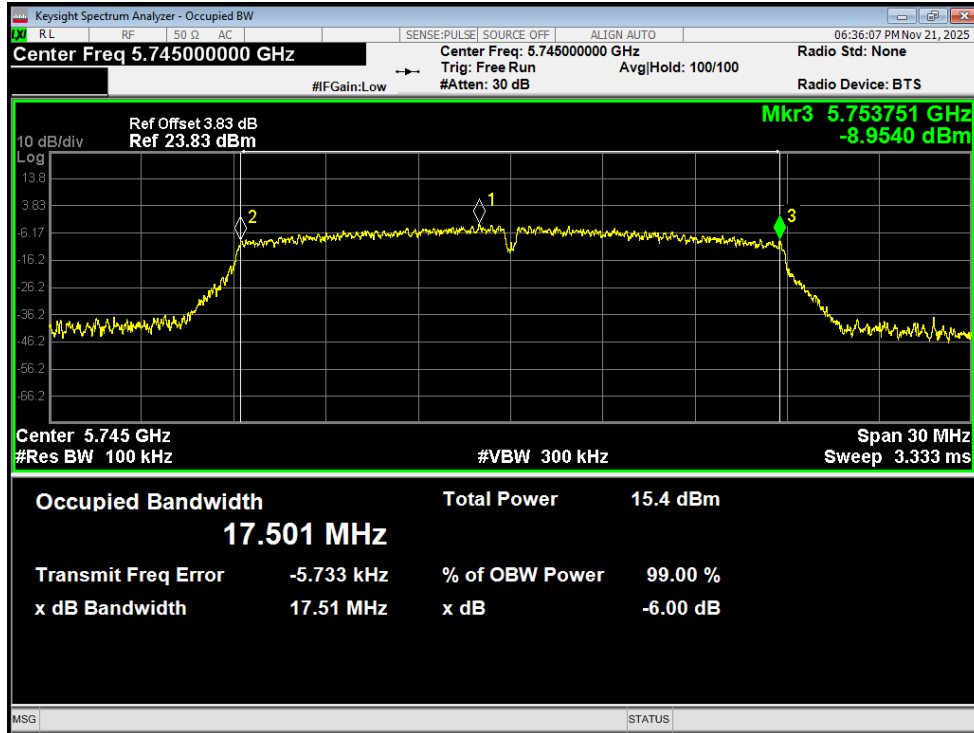
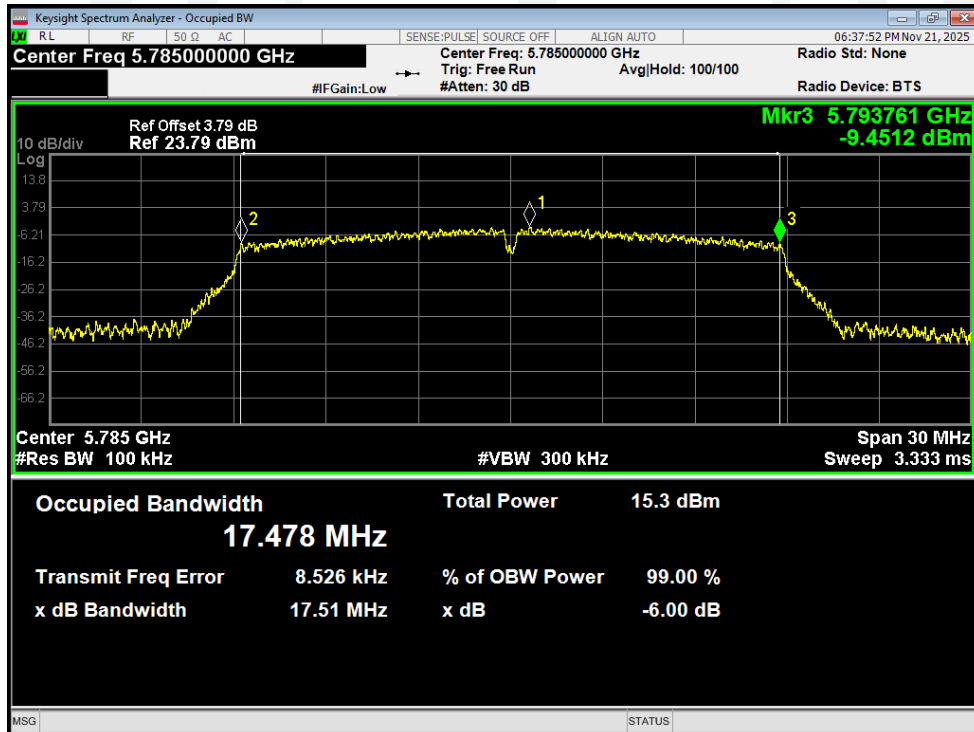


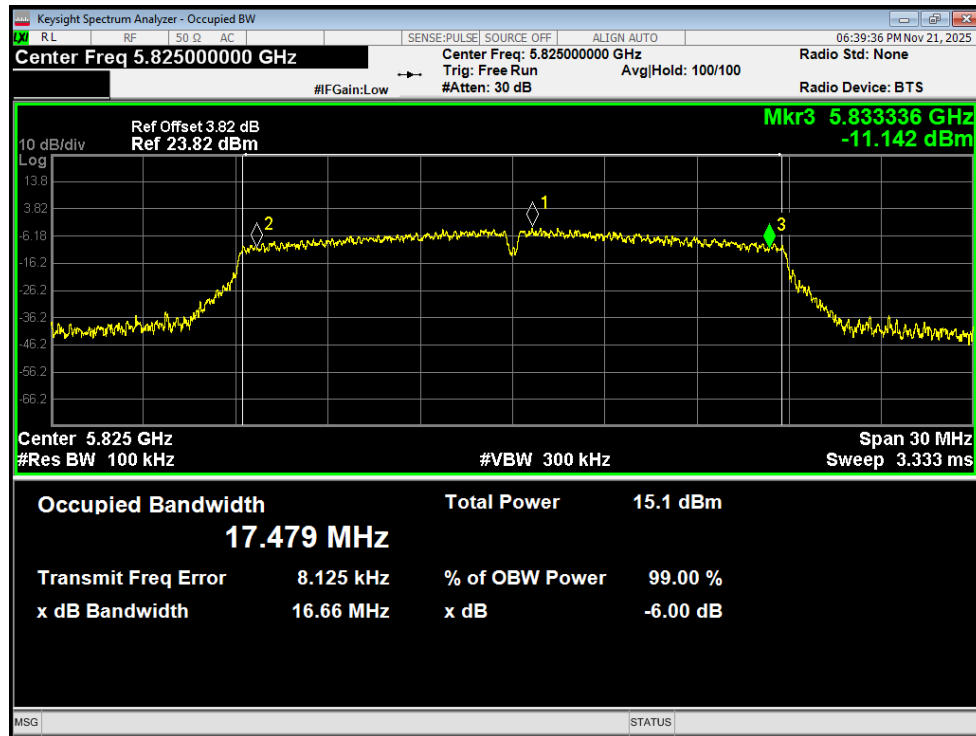
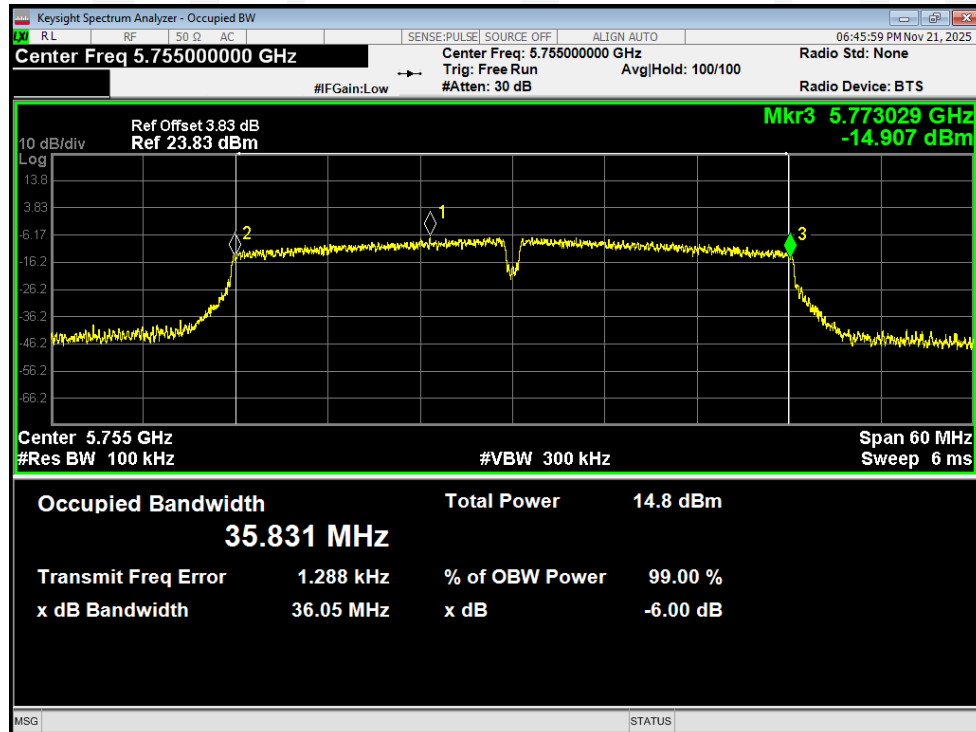
-6dB Bandwidth NVNT n40 5755MHz Ant1

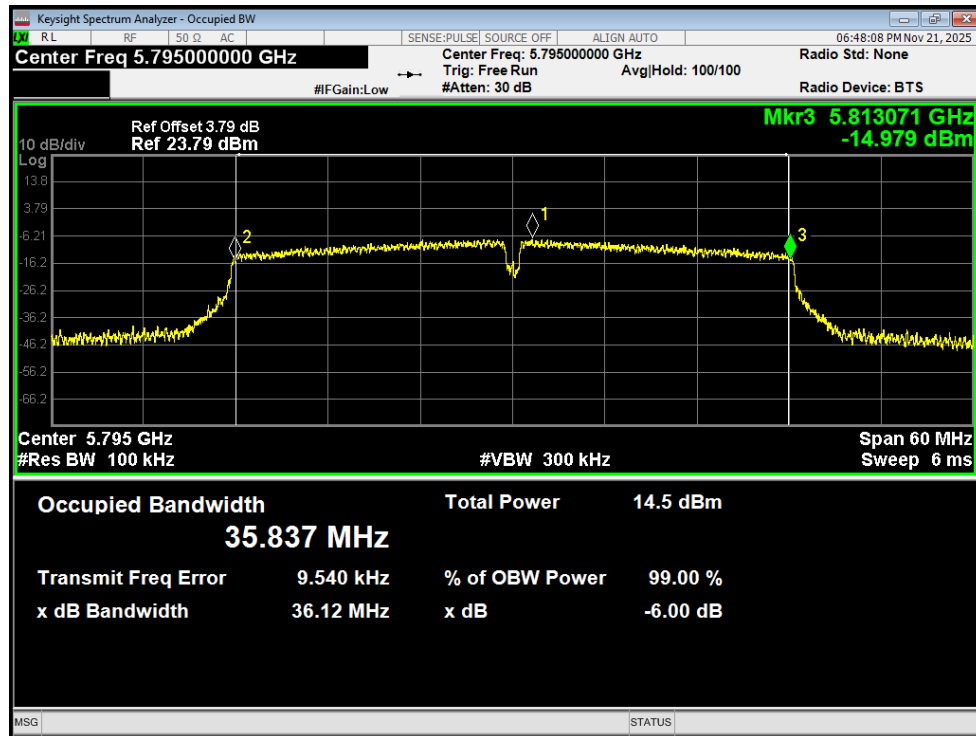
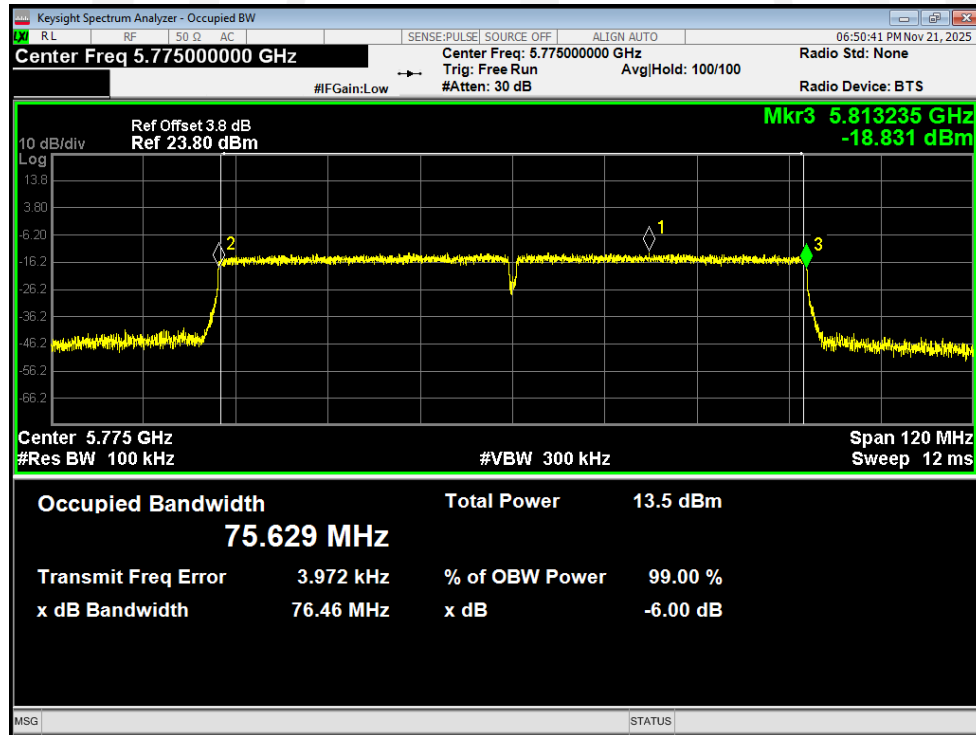


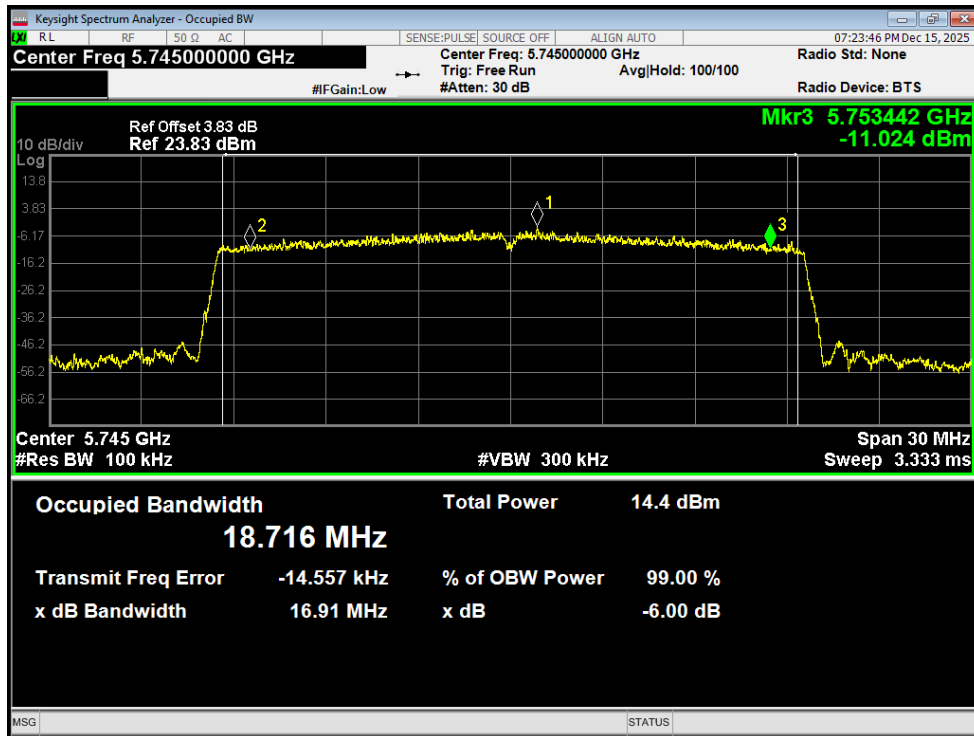
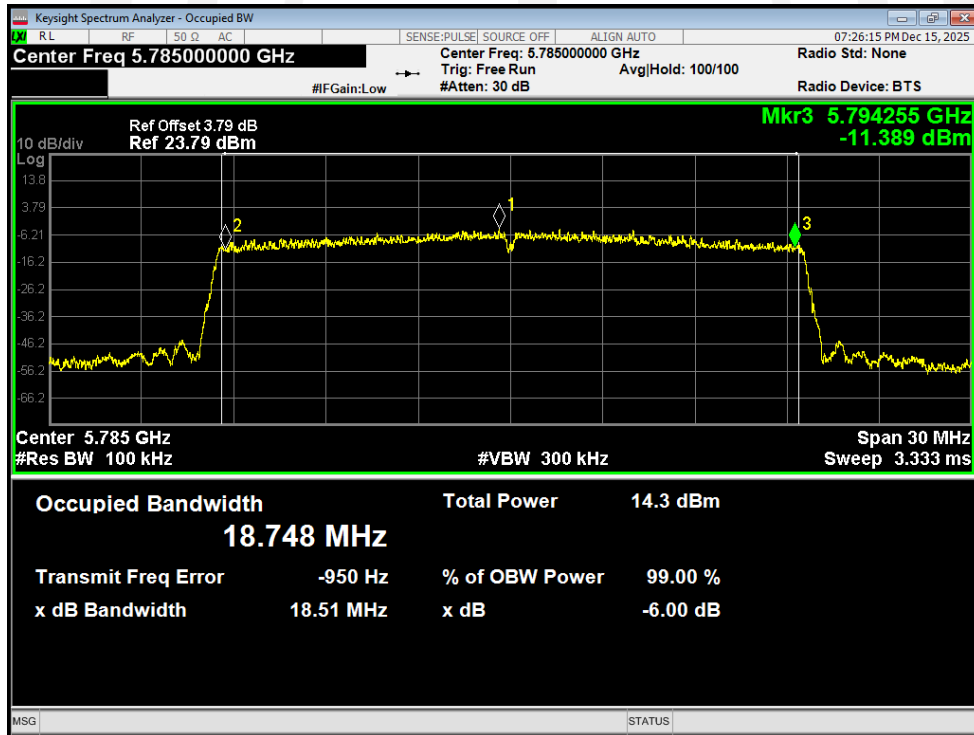
-6dB Bandwidth NVNT n40 5795MHz Ant1

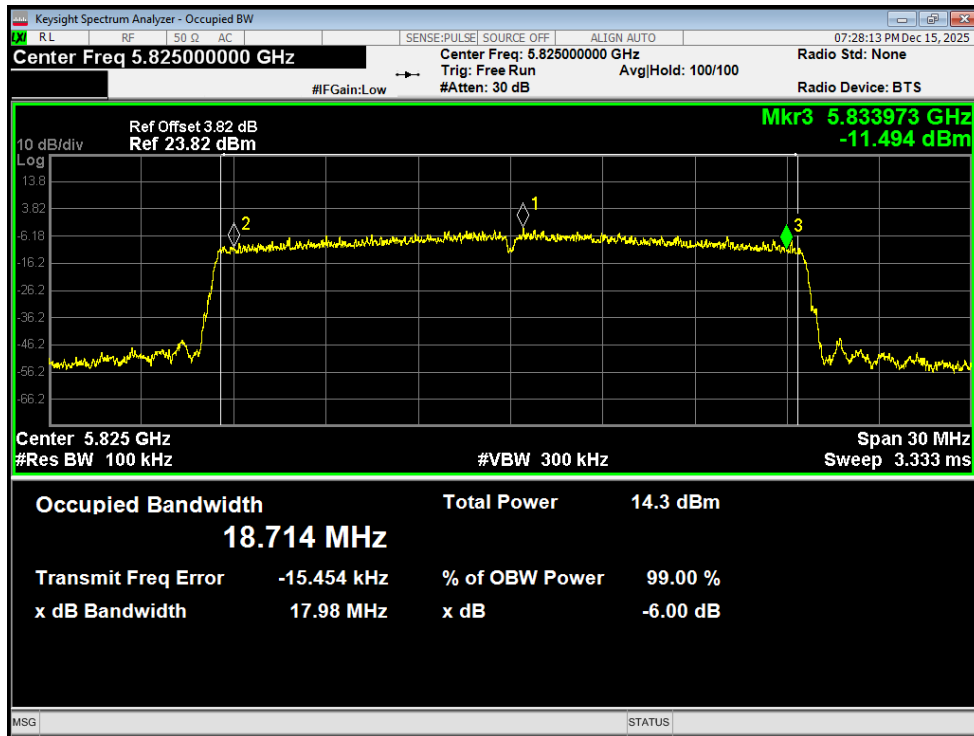
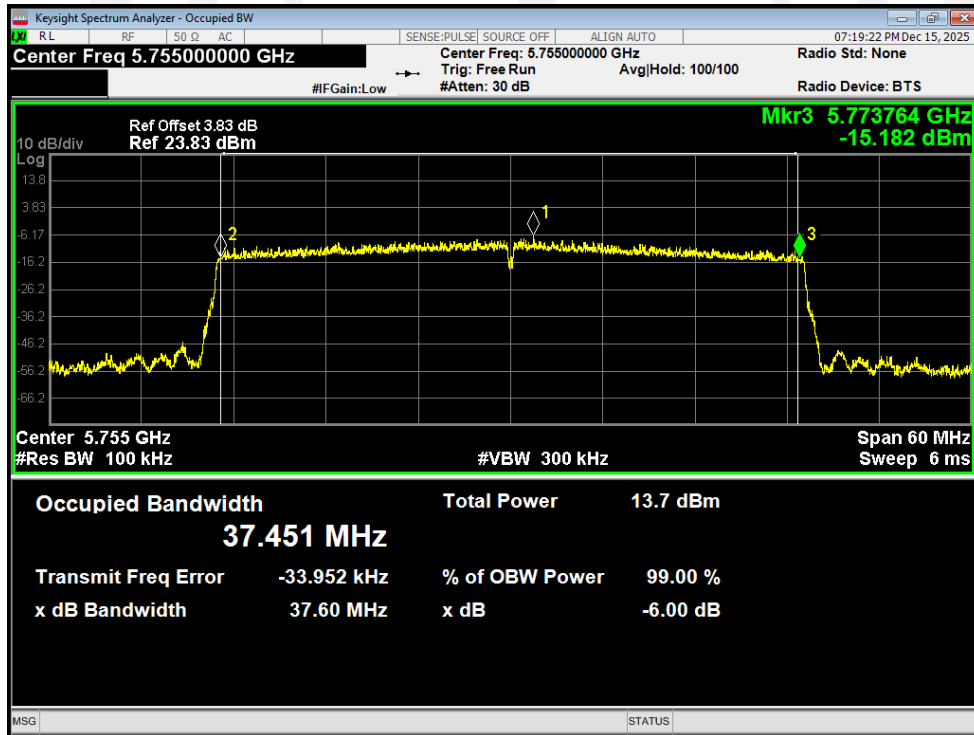


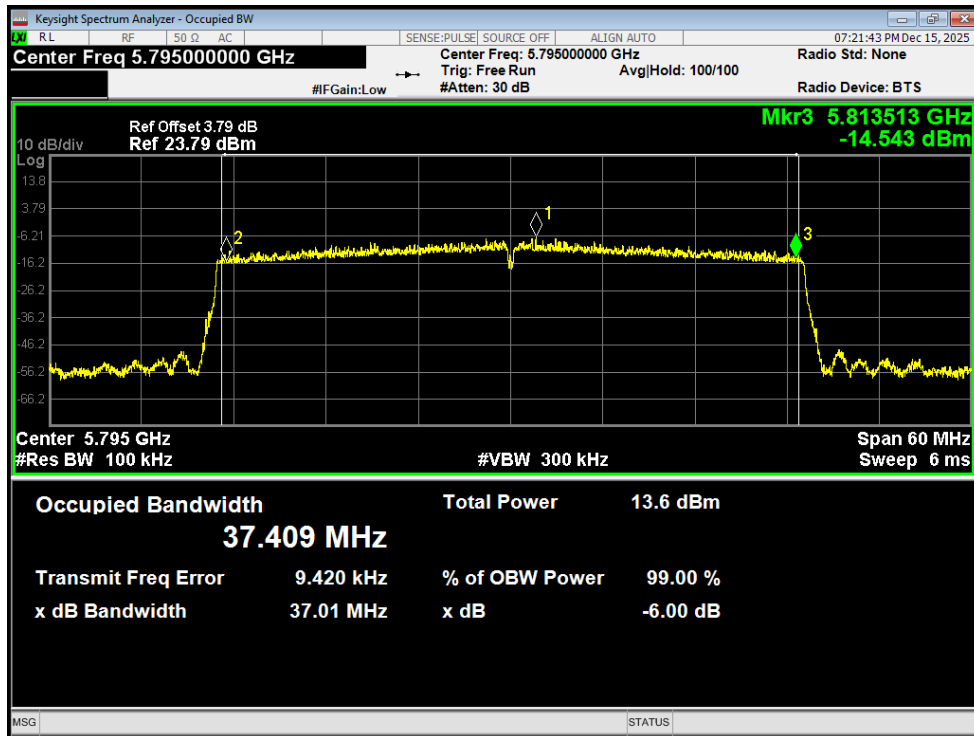
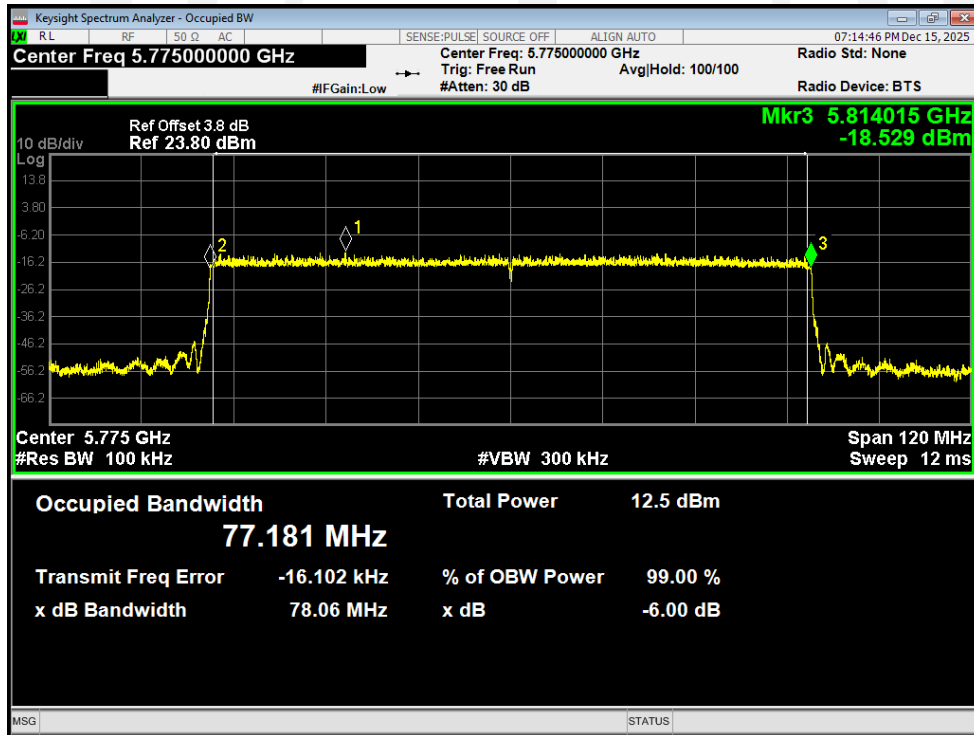
-6dB Bandwidth NVNT ac20 5745MHz Ant1**-6dB Bandwidth NVNT ac20 5785MHz Ant1**

-6dB Bandwidth NVNT ac20 5825MHz Ant1**-6dB Bandwidth NVNT ac40 5755MHz Ant1**

-6dB Bandwidth NVNT ac40 5795MHz Ant1**-6dB Bandwidth NVNT ac80 5775MHz Ant1**

-6dB Bandwidth NVNT ax20 5745MHz Ant1**-6dB Bandwidth NVNT ax20 5785MHz Ant1**

-6dB Bandwidth NVNT ax20 5825MHz Ant1**-6dB Bandwidth NVNT ax40 5755MHz Ant1**

-6dB Bandwidth NVNT ax40 5795MHz Ant1**-6dB Bandwidth NVNT ax80 5775MHz Ant1**

4.4 Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Method:	Please refer to ANSI C63.10-2020 Section 12.2
Limit:	No limits
Test setup:	 The diagram shows a green Spectrum Analyzer connected via a cable to a yellow EUT (Equipment Under Test).
Test procedure:	i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW $\geq$ RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remark:

*Duty cycle factor (dB) = 10 * log (1/ Duty cycle)*

Test result:

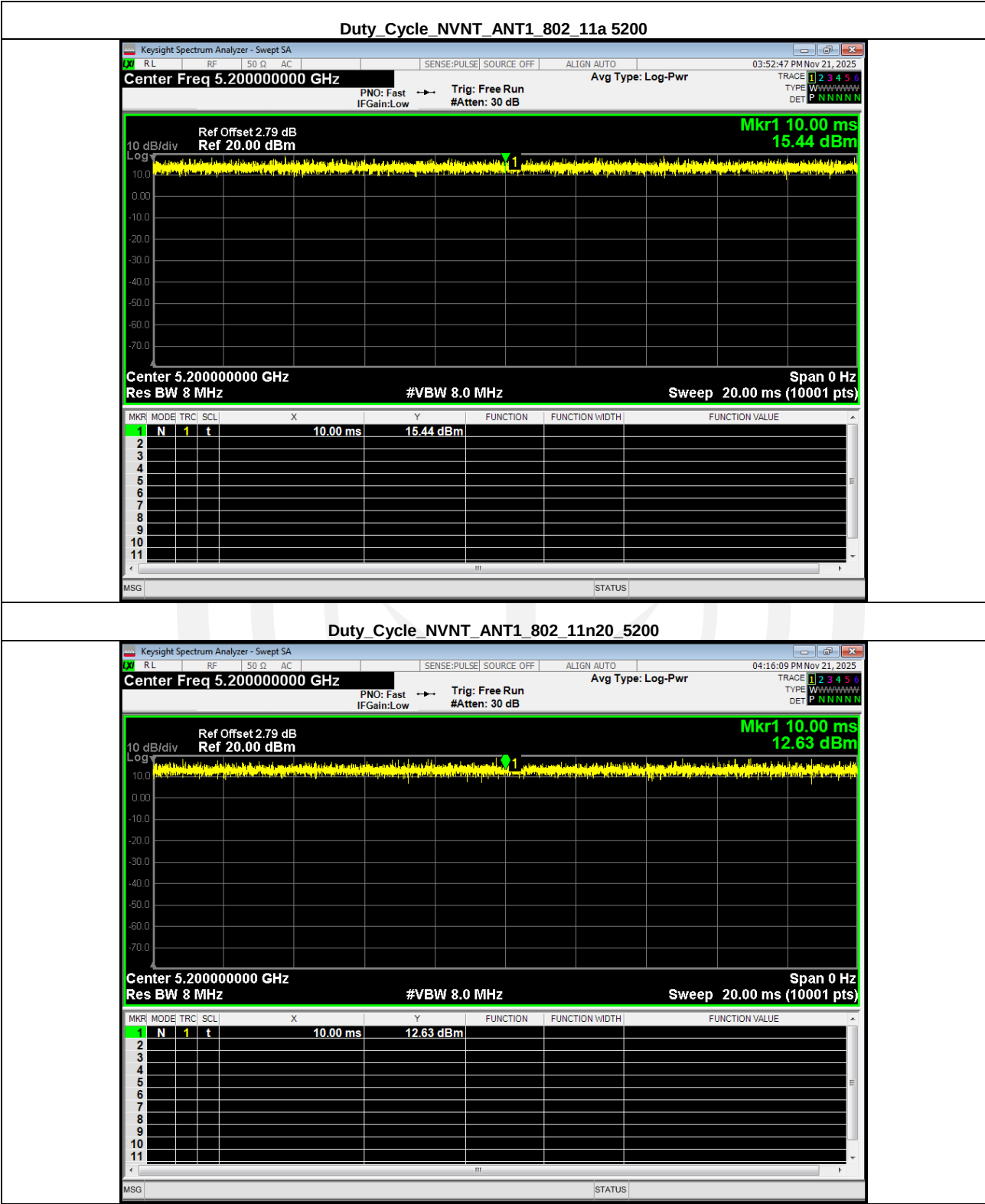
5180-5240MHz

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5200	Ant1	100	0
NVNT	n20	5200	Ant1	100	0
NVNT	n40	5190	Ant1	100	0
NVNT	ac20	5200	Ant1	100	0
NVNT	ac40	5190	Ant1	100	0
NVNT	ac80	5210	Ant1	100	0

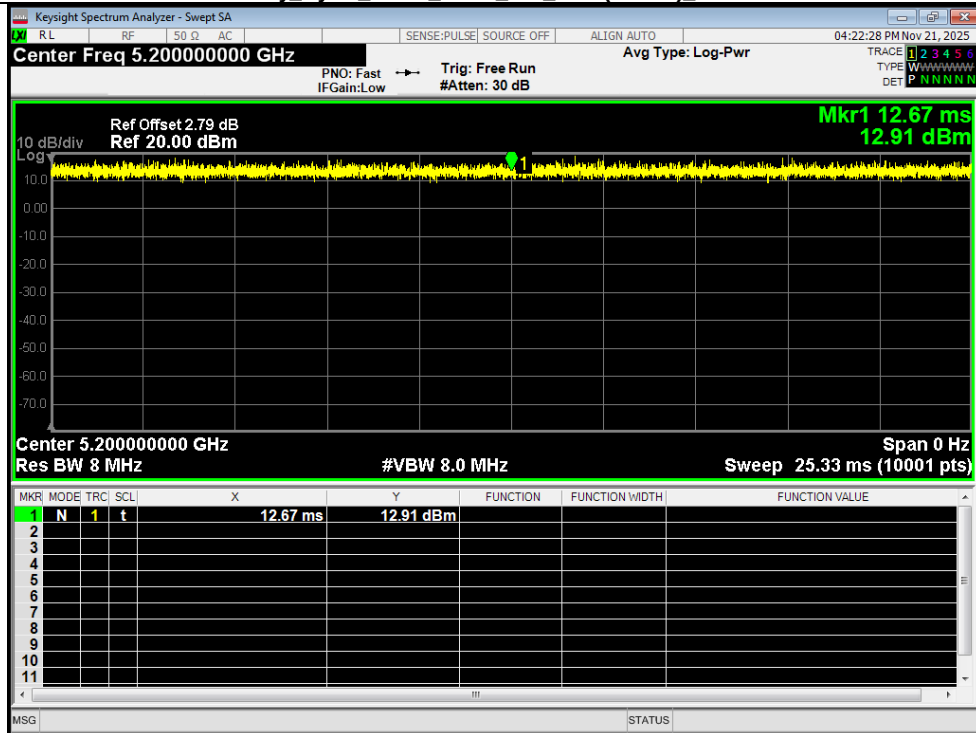
5745-5825MHz

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5785	Ant1	100	0
NVNT	n20	5785	Ant1	100	0
NVNT	n40	5755	Ant1	100	0
NVNT	ac20	5785	Ant1	100	0
NVNT	ac40	5755	Ant1	100	0
NVNT	ac80	5775	Ant1	100	0

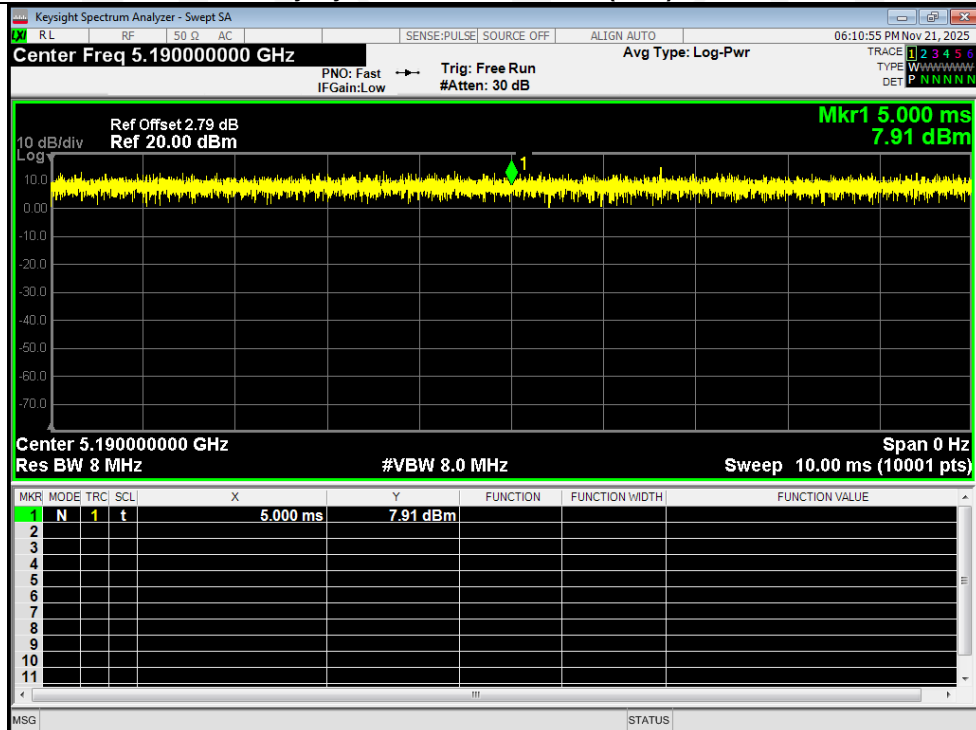
Data:
5180-5240MHz



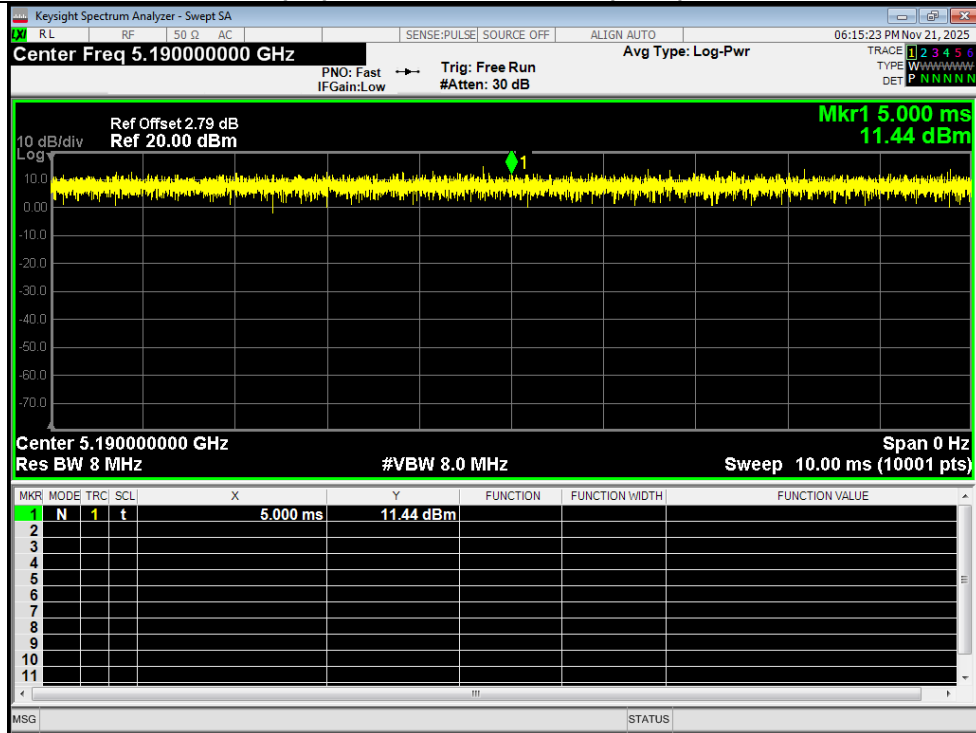
Duty Cycle_NVNT_ANT1_802_11ac(VHT20)_5200



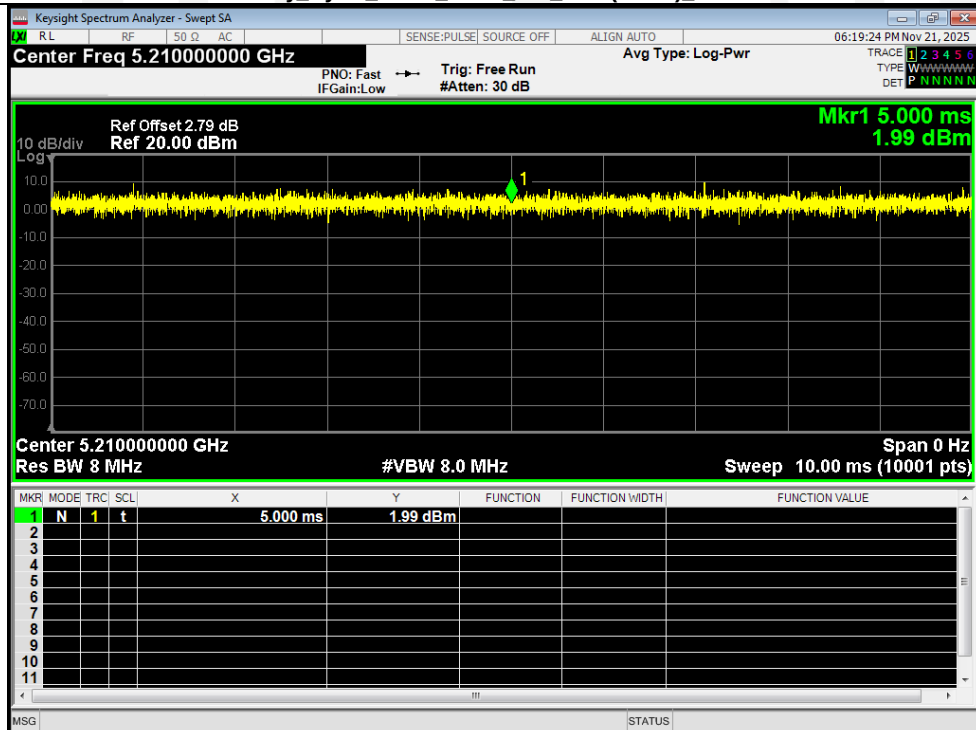
Duty Cycle_NVNT_ANT1_802_11n(HT40)_5190



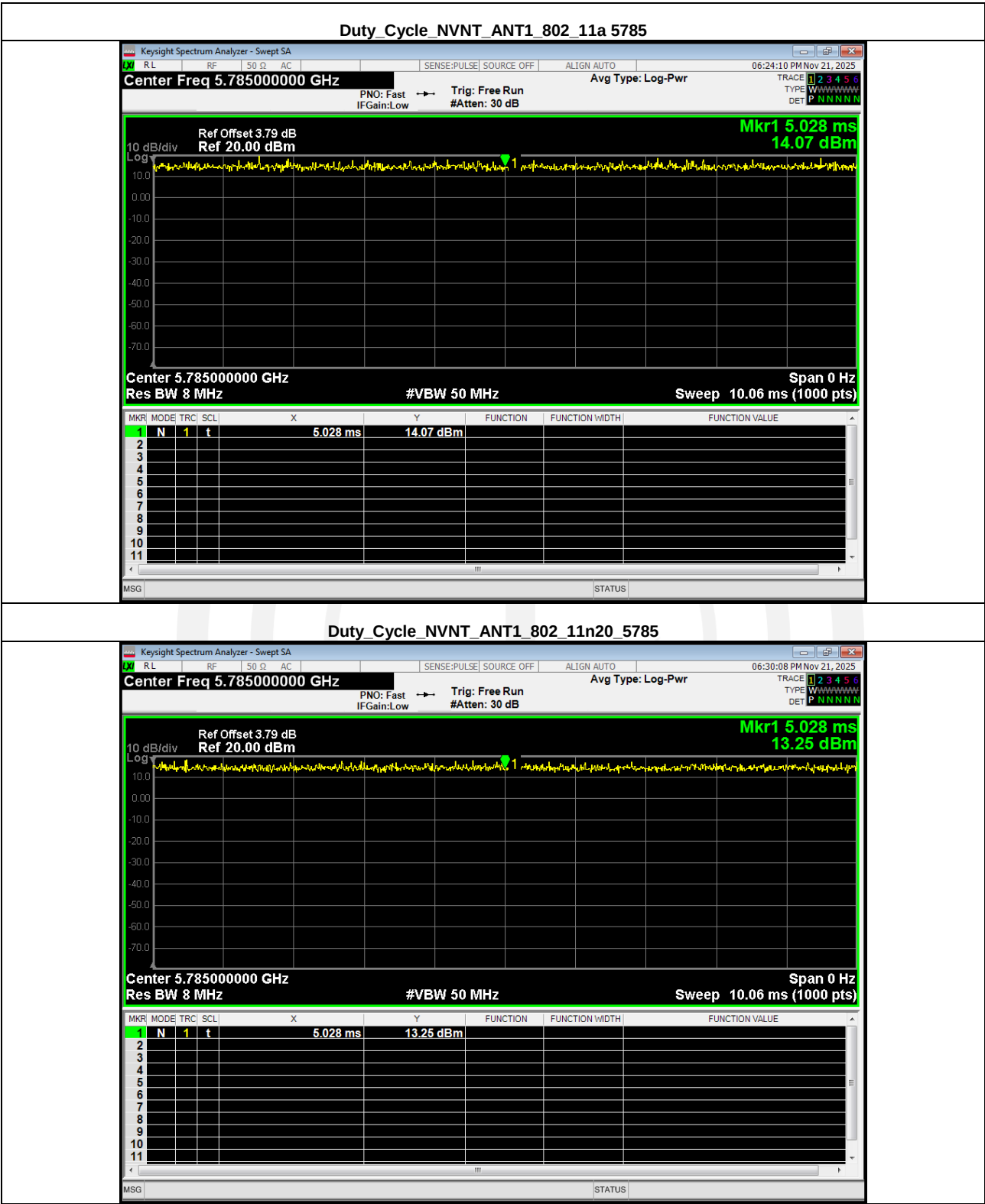
Duty Cycle NVNT_ANT1_802_11ac(vHT40)_5190

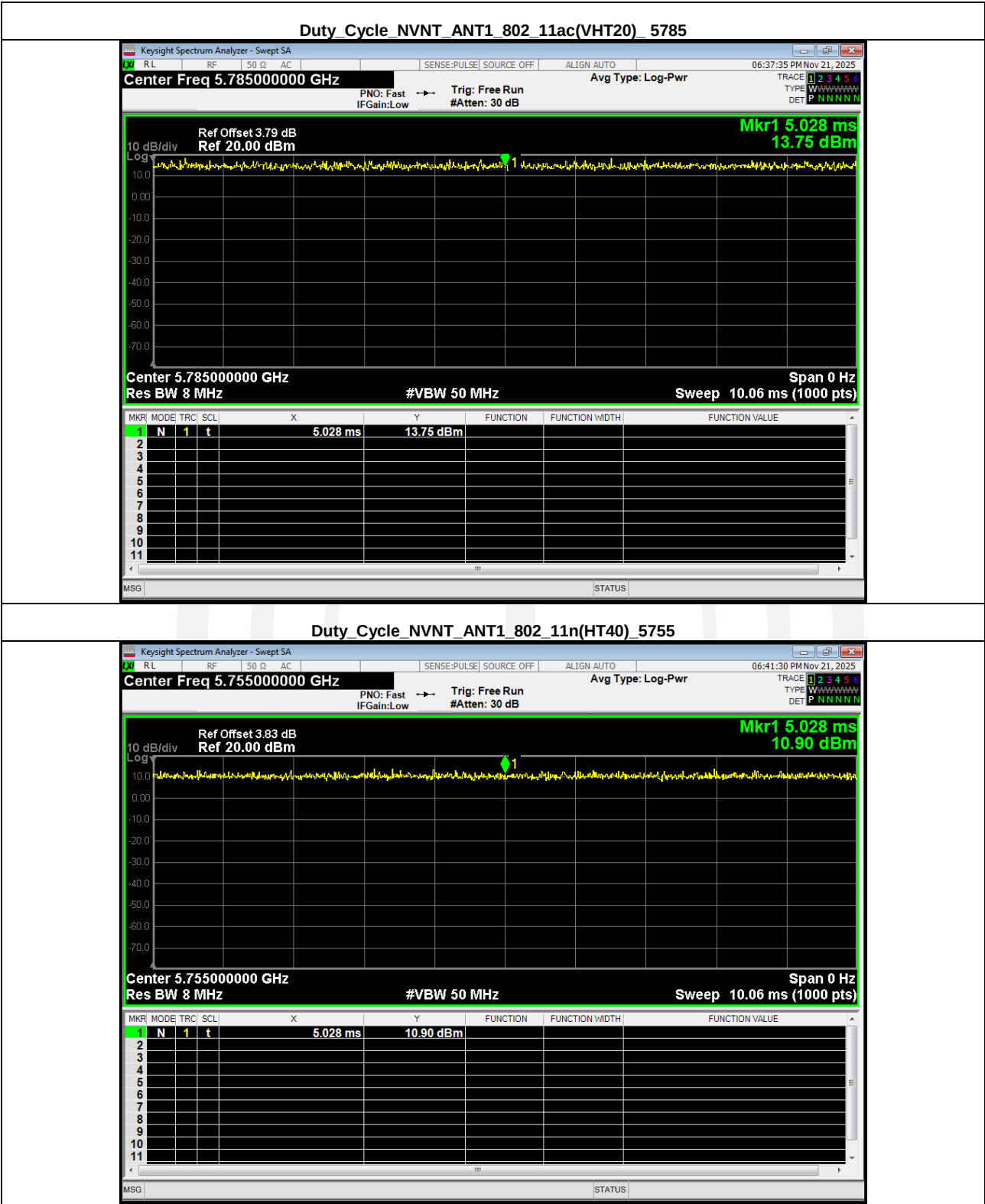


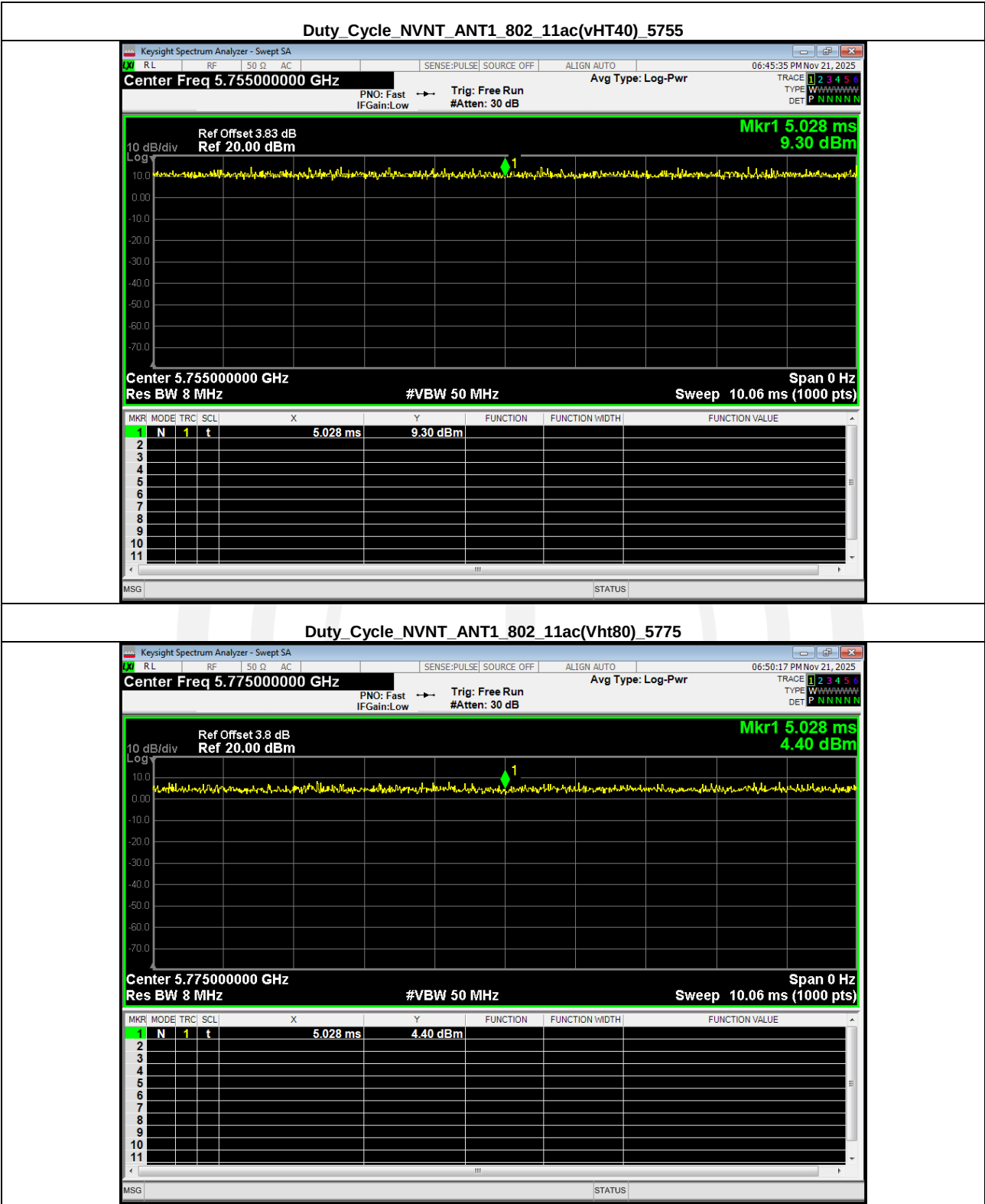
Duty Cycle NVNT_ANT1_802_11ac(Vht80)_5210



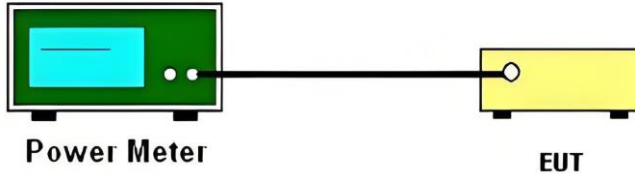
5745-5825 MHz







4.5 Maximum Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407(a)(1)(iv)-(B1), (a)(3)(i)-(B4)
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W. For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test setup:	 The diagram illustrates the test setup. On the left is a green rectangular box labeled 'Power Meter' with a blue screen and two small white circles. A black line representing a cable connects the Power Meter to a yellow rectangular box on the right labeled 'EUT' (Equipment Under Test), which has a single white circle on its left side.
Test procedure:	Measurement using an RF average power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data**5180-5240MHz**

Test Mode	Test Channel	Frequency	Correction Factor	Output power	Total Power	Limit (dBm)	Result
		(MHz)	(dB)	(dBm)	(dBm)		
802.11a	CH36	5180	0	14.29	14.29	23.97	Pass
	CH40	5200	0	14.36	14.36	23.97	Pass
	CH48	5240	0	14.08	14.08	23.97	Pass
802.11n20	CH36	5180	0	14.03	14.03	23.97	Pass
	CH40	5200	0	14.31	14.31	23.97	Pass
	CH48	5240	0	14.53	14.53	23.97	Pass
802.11ac20	CH36	5180	0	14.65	14.65	23.97	Pass
	CH40	5200	0	14.41	14.41	23.97	Pass
	CH48	5240	0	14.03	14.03	23.97	Pass
802.11ax20	CH36	5180	0	14.20	14.20	23.97	Pass
	CH40	5200	0	14.42	14.42	23.97	Pass
	CH48	5240	0	14.11	14.11	23.97	Pass
802.11n40	CH38	5190	0	13.20	13.20	23.97	Pass
	CH46	5230	0	13.49	13.49	23.97	Pass
802.11ac40	CH38	5190	0	13.18	13.18	23.97	Pass
	CH46	5230	0	13.50	13.50	23.97	Pass
802.11ax40	CH38	5190	0	13.45	13.45	23.97	Pass
	CH46	5230	0	13.49	13.49	23.97	Pass
802.11ac80	CH42	5210	0	12.19	12.19	23.97	Pass
802.11ax80	CH42	5210	0	12.57	12.57	23.97	Pass

5745-5825 MHz

Test Mode	Test Channel	Frequency	Correction Factor	Output power	Total Power	Limit (dBm)	Result
		(MHz)	(dB)	(dBm)	(dBm)		
802.11a	CH149	5745	0	14.57	14.57	30	Pass
	CH157	5785	0	14.09	14.09	30	Pass
	CH165	5825	0	14.27	14.27	30	Pass
802.11n20	CH149	5745	0	14.44	14.44	30	Pass
	CH157	5785	0	14.31	14.31	30	Pass
	CH165	5825	0	14.51	14.51	30	Pass
802.11ac20	CH149	5745	0	14.33	14.33	30	Pass
	CH157	5785	0	14.32	14.32	30	Pass
	CH165	5825	0	14.06	14.06	30	Pass
802.11ax20	CH149	5745	0	14.02	14.02	30	Pass
	CH157	5785	0	14.10	14.10	30	Pass
	CH165	5825	0	14.13	14.13	30	Pass
802.11n40	CH151	5755	0	13.32	13.32	30	Pass
	CH159	5795	0	13.15	13.15	30	Pass
802.11ac40	CH151	5755	0	13.59	13.59	30	Pass
	CH159	5795	0	13.52	13.52	30	Pass
802.11ax40	CH151	5755	0	13.40	13.40	30	Pass
	CH159	5795	0	13.15	13.15	30	Pass
802.11ac80	CH42	5210	0	12.35	12.35	30	Pass
802.11ax80	CH155	5775	0	12.19	12.19	30	Pass

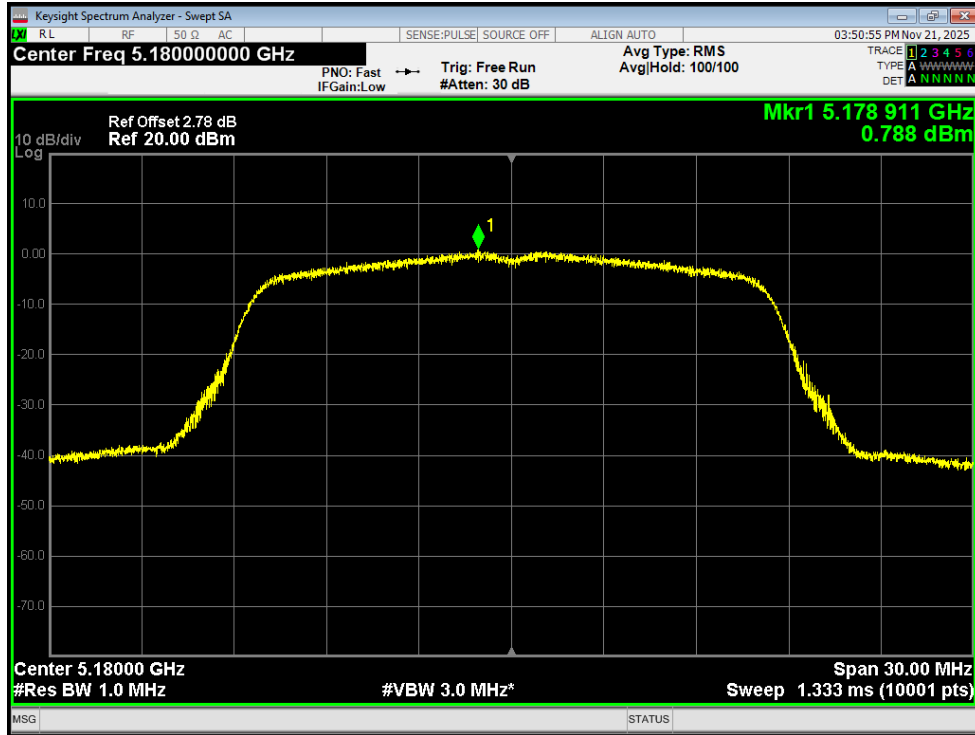
4.6 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407(a)(1)(iv)-(B1), (a)(3)(i)-(B4)
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	FCC: $1 \leq 11.00 \text{ dBm/MHz}$ for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz $2 \leq 30.00 \text{ dBm/500KHz}$ for 5725MHz-5850MHz
Test setup:	 Spectrum Analyzer EUT
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

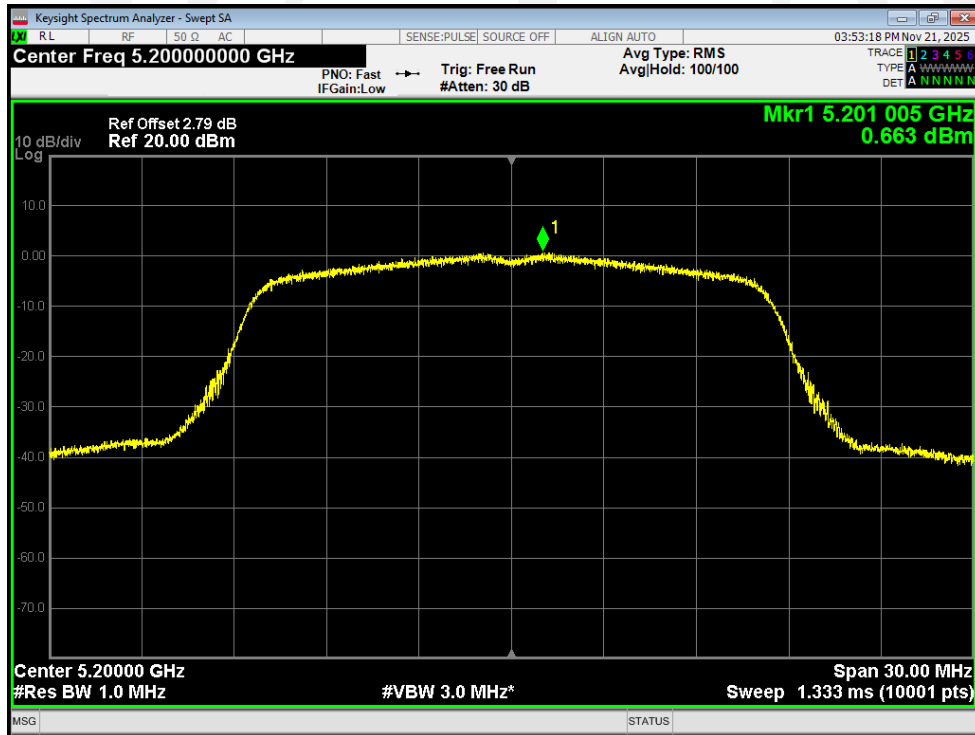
Measurement Data**5180-5240MHz**

Mode	Frequency	Measured Power Density (dBm/MHz)	Correction Factor (dB)	Total Measured Power Density (dBm/MHz)	Limit (dBm/MHz)
802.11 a	5180 MHz	0.788	0	0.788	11
	5200 MHz	0.663	0	0.663	11
	5240 MHz	0.768	0	0.768	11
802.11 n20	5180 MHz	-0.250	0	-0.250	11
	5200 MHz	0.431	0	0.431	11
	5240 MHz	0.623	0	0.623	11
802.11 ac20	5180 MHz	-3.747	0	-3.747	11
	5200 MHz	-3.516	0	-3.516	11
	5240 MHz	0.650	0	0.650	11
802.11 n40	5190 MHz	0.540	0	0.540	11
	5230 MHz	0.130	0	0.130	11
802.11 ac40	5190 MHz	-3.800	0	-3.800	11
	5230 MHz	-3.431	0	-3.431	11
802.11 ac80	5210 MHz	-9.422	0	-9.422	11
802.11 ax20	5180 MHz	-0.932	0	-0.932	11
	5200 MHz	-0.759	0	-0.759	11
	5240 MHz	-1.125	0	-1.125	11
802.11 ax40	5190 MHz	-4.730	0	-4.730	11
	5230 MHz	-4.921	0	-4.921	11
802.11 ax80	5210 MHz	-9.625	0	-9.625	11

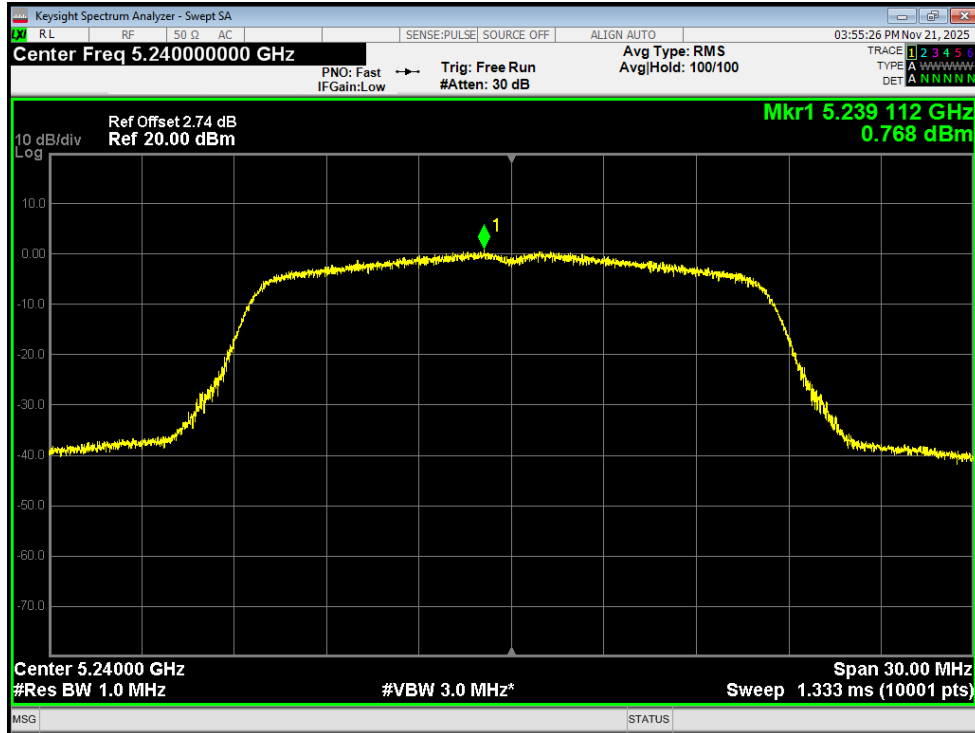
PSD NVNT a 5180MHz Ant1



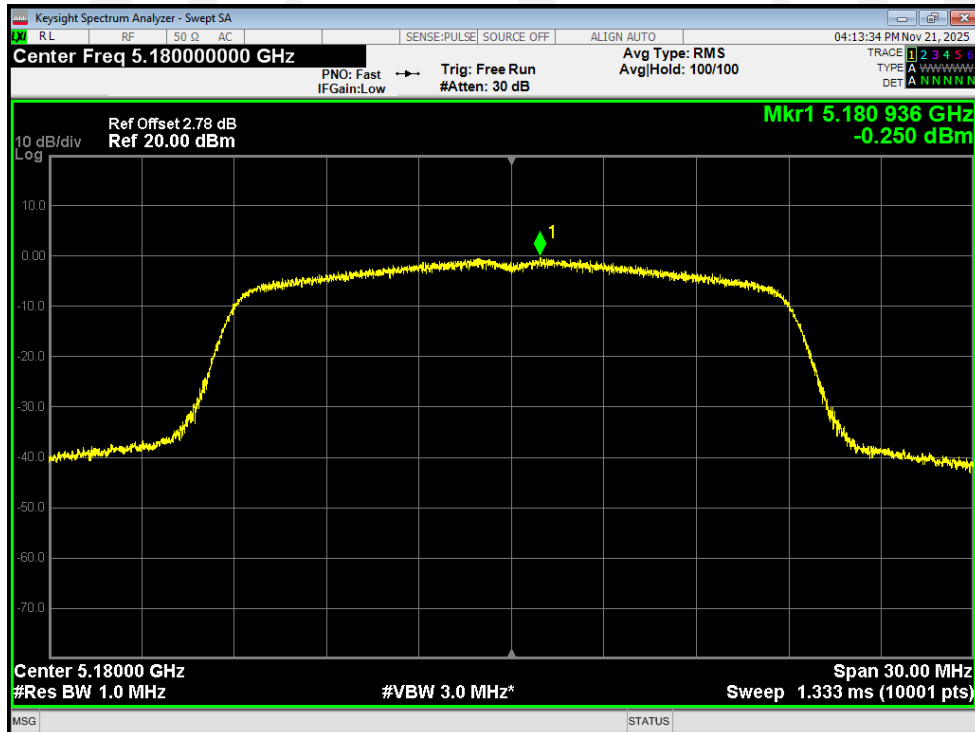
PSD NVNT a 5200MHz Ant1



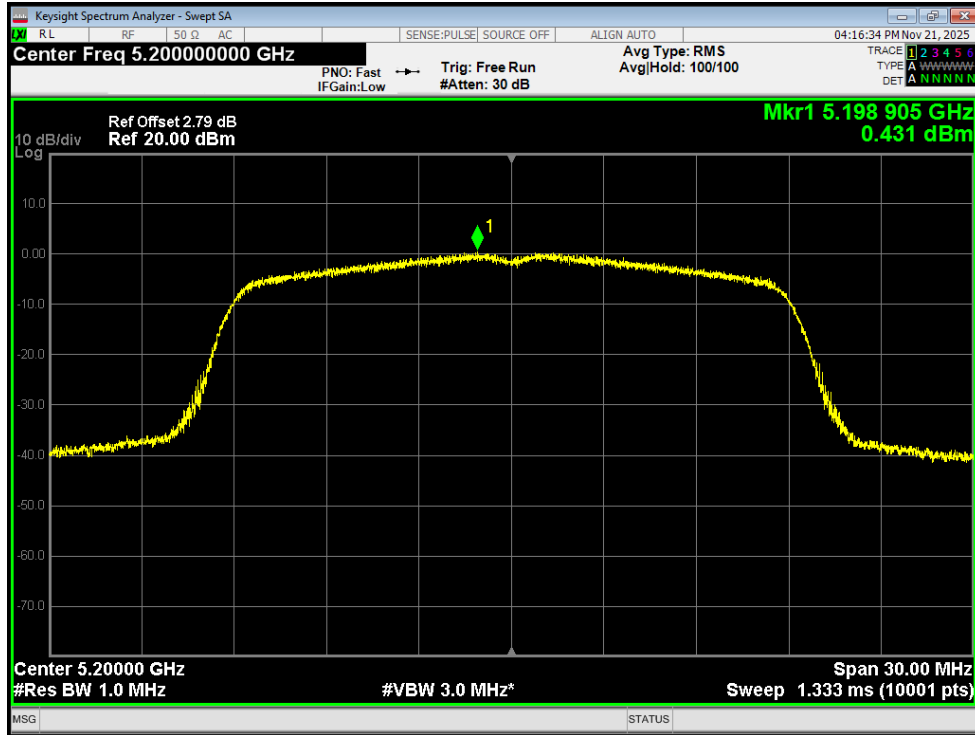
PSD NVNT a 5240MHz Ant1



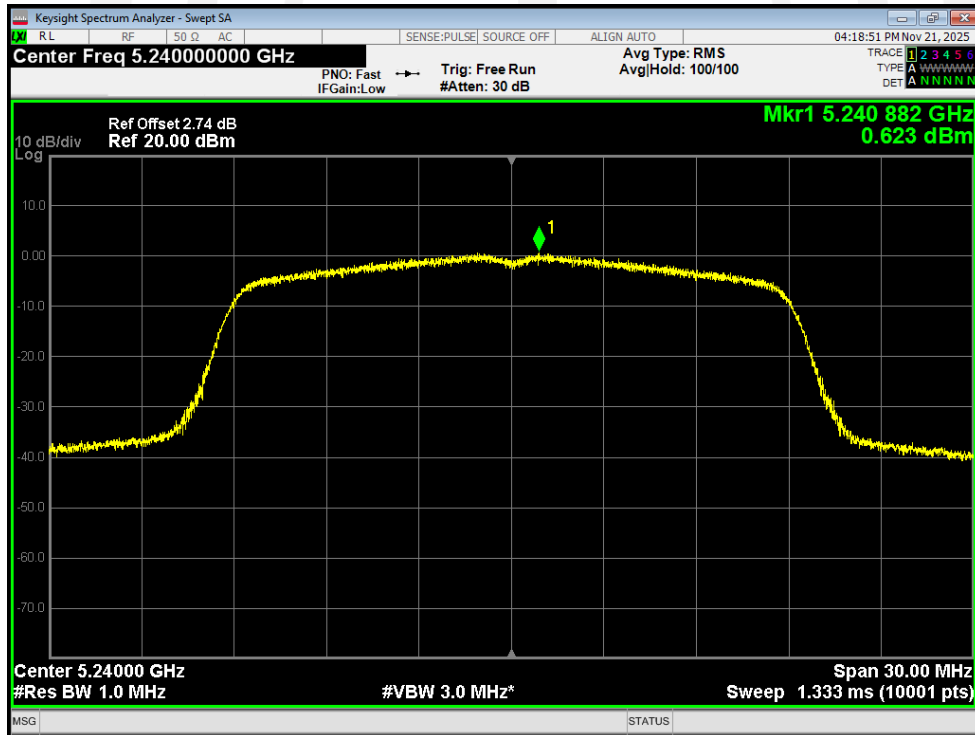
PSD NVNT n20 5180MHz Ant1



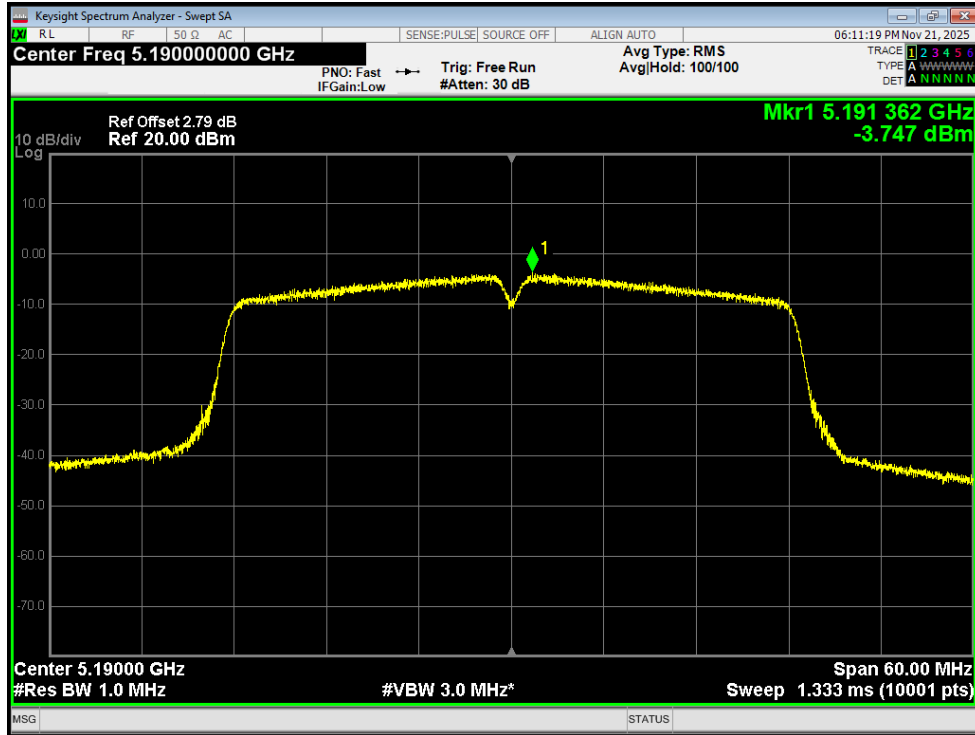
PSD NVNT n20 5200MHz Ant1



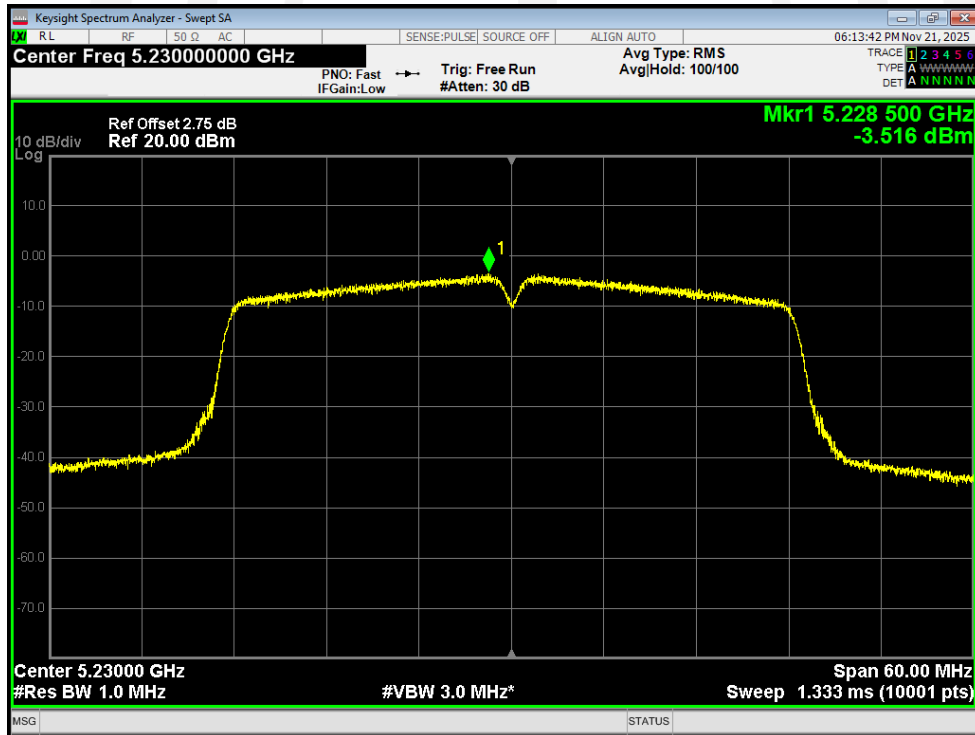
PSD NVNT n20 5240MHz Ant1



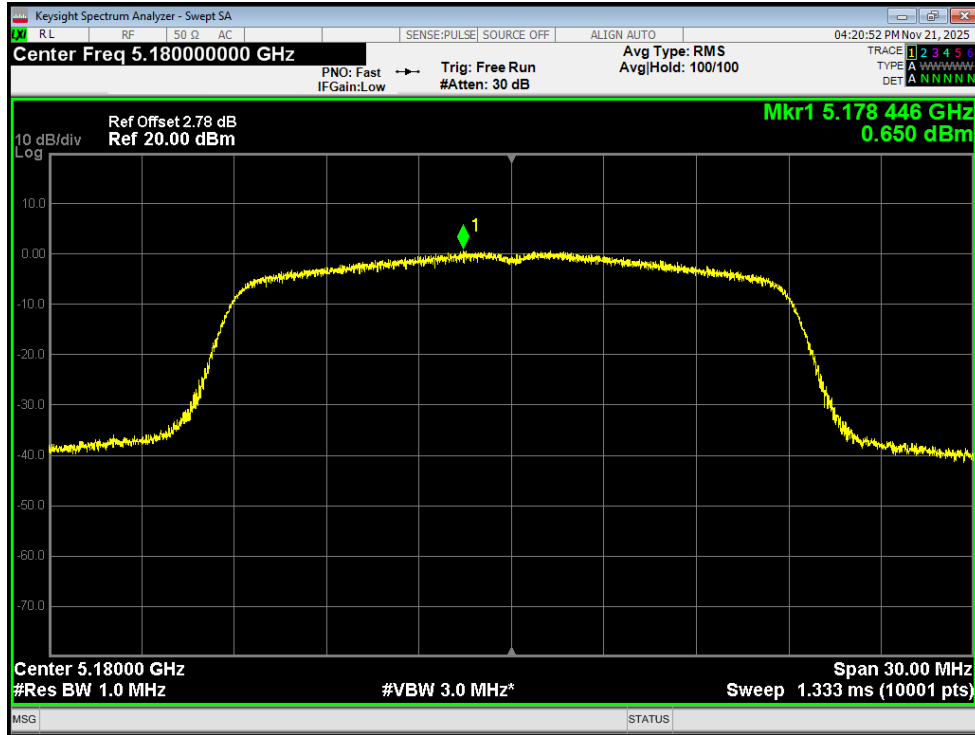
PSD NVNT n40 5190MHz Ant1



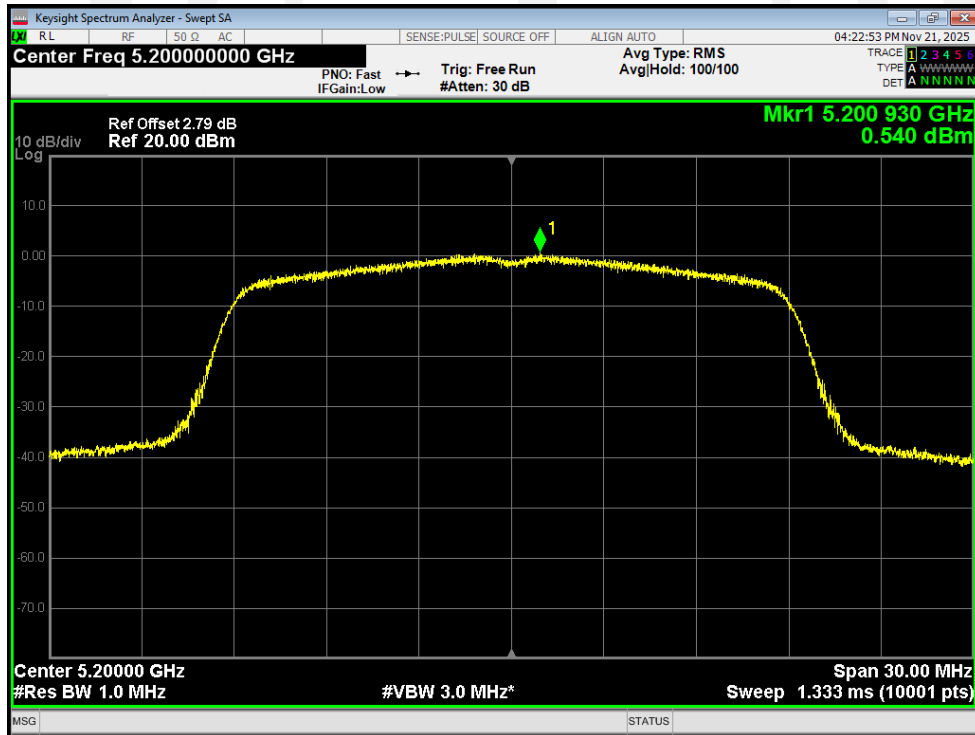
PSD NVNT n40 5230MHz Ant1



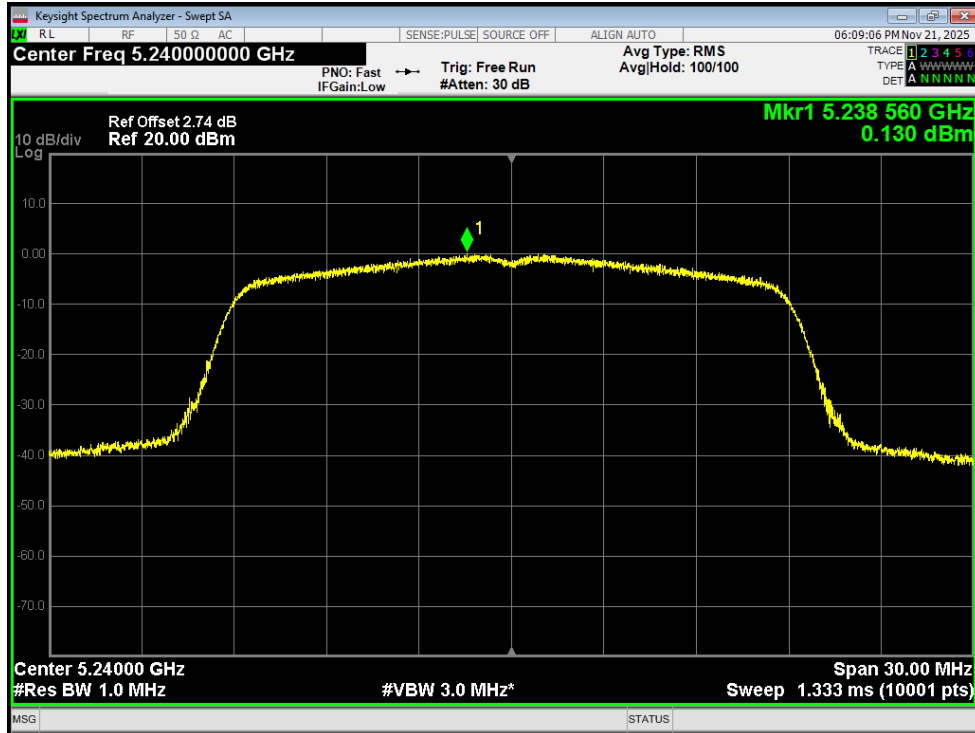
PSD NVNT ac20 5180MHz Ant1



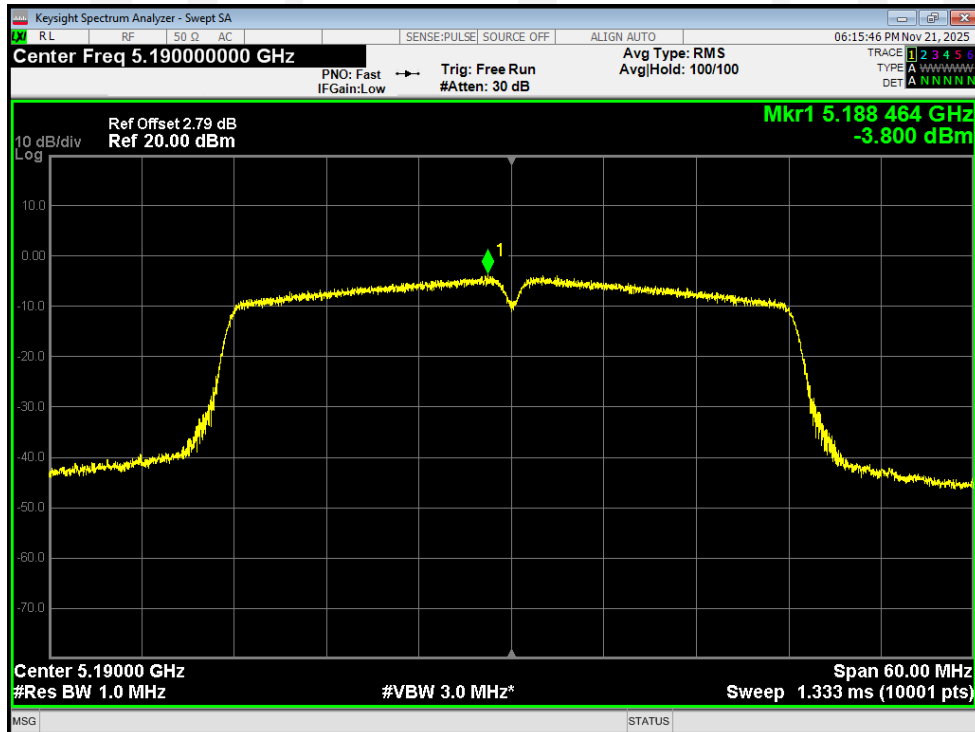
PSD NVNT ac20 5200MHz Ant1



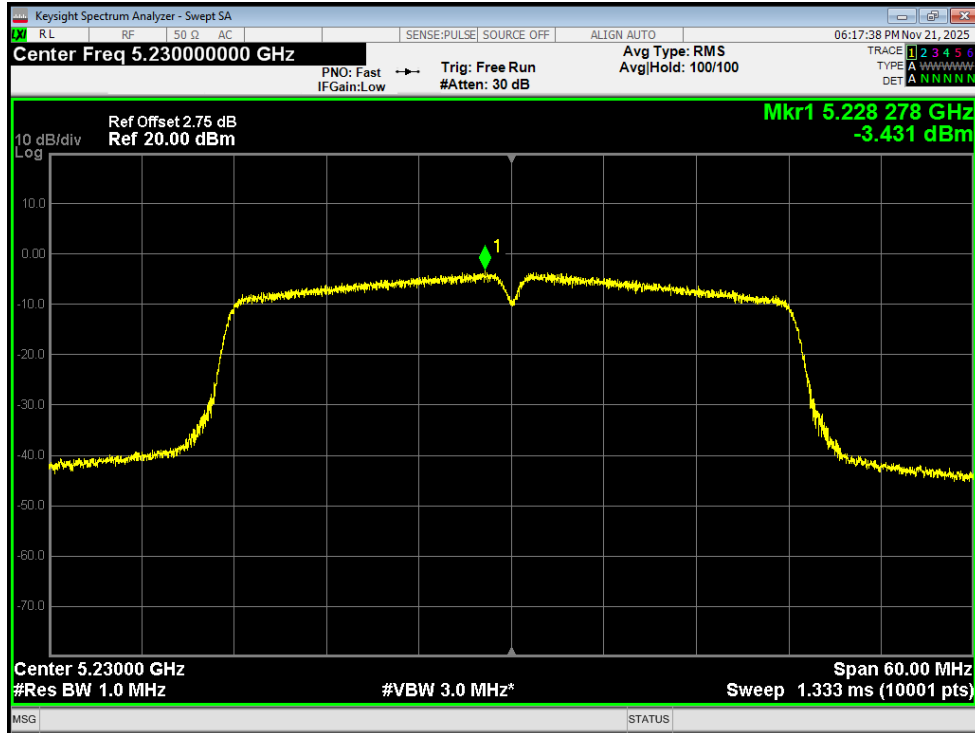
PSD NVNT ac20 5240MHz Ant1



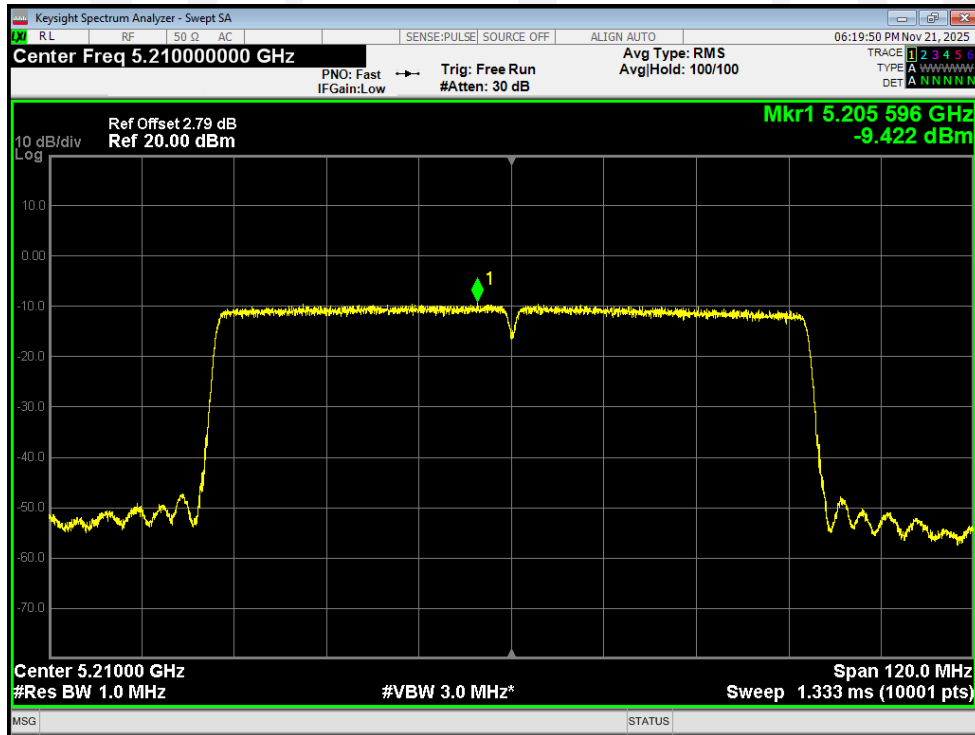
PSD NVNT ac40 5190MHz Ant1



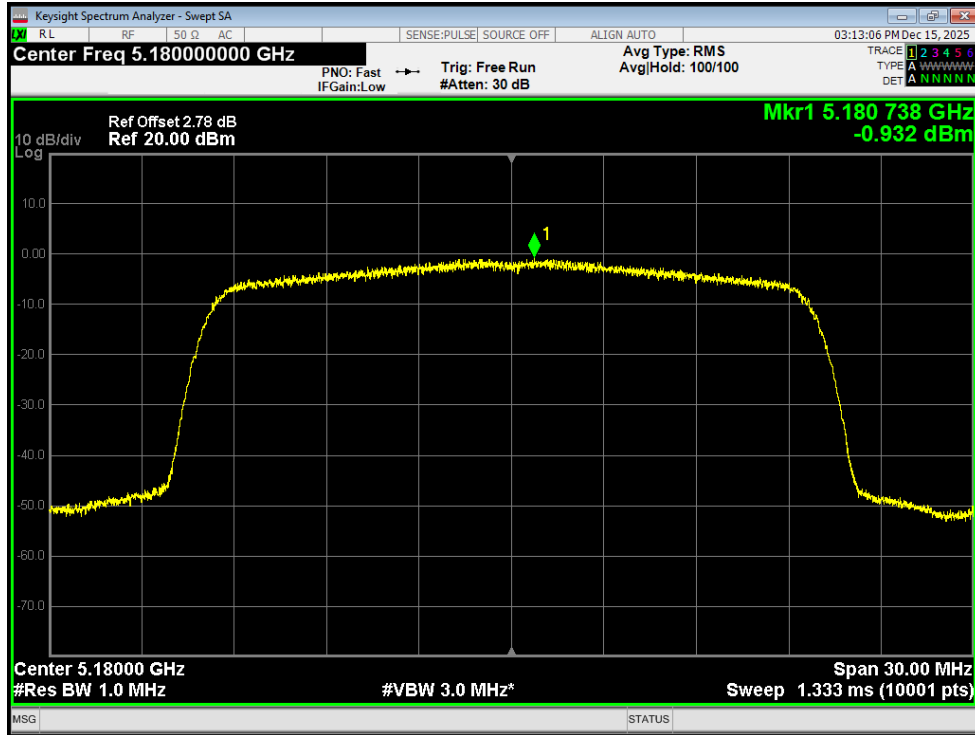
PSD NVNT ac40 5230MHz Ant1



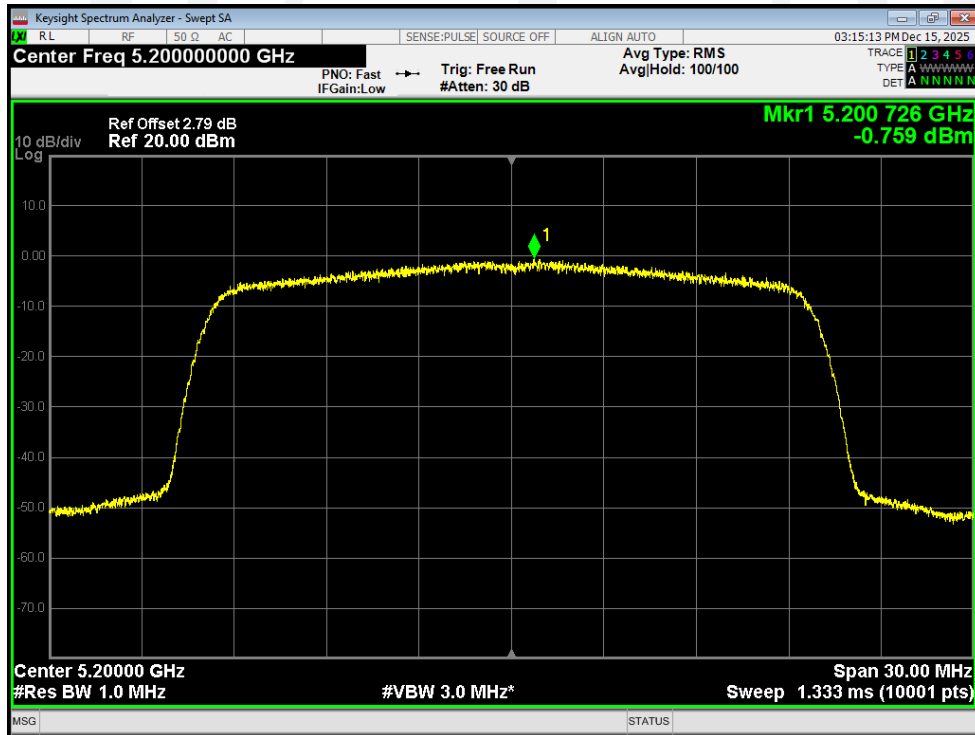
PSD NVNT ac80 5210MHz Ant1



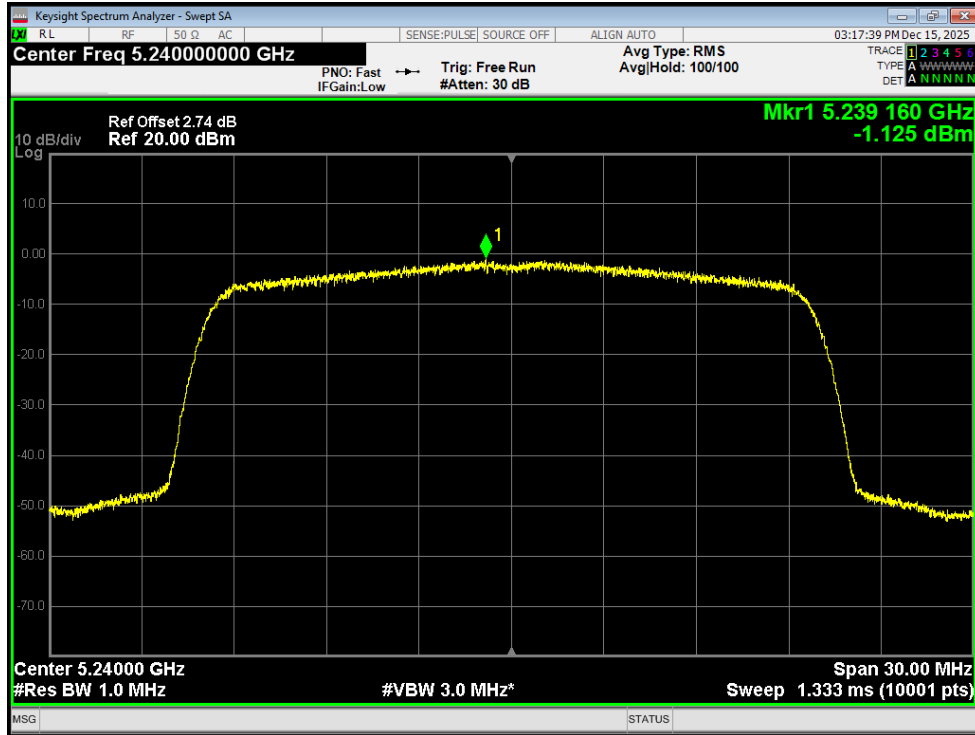
PSD NVNT ax20 5180MHz Ant1



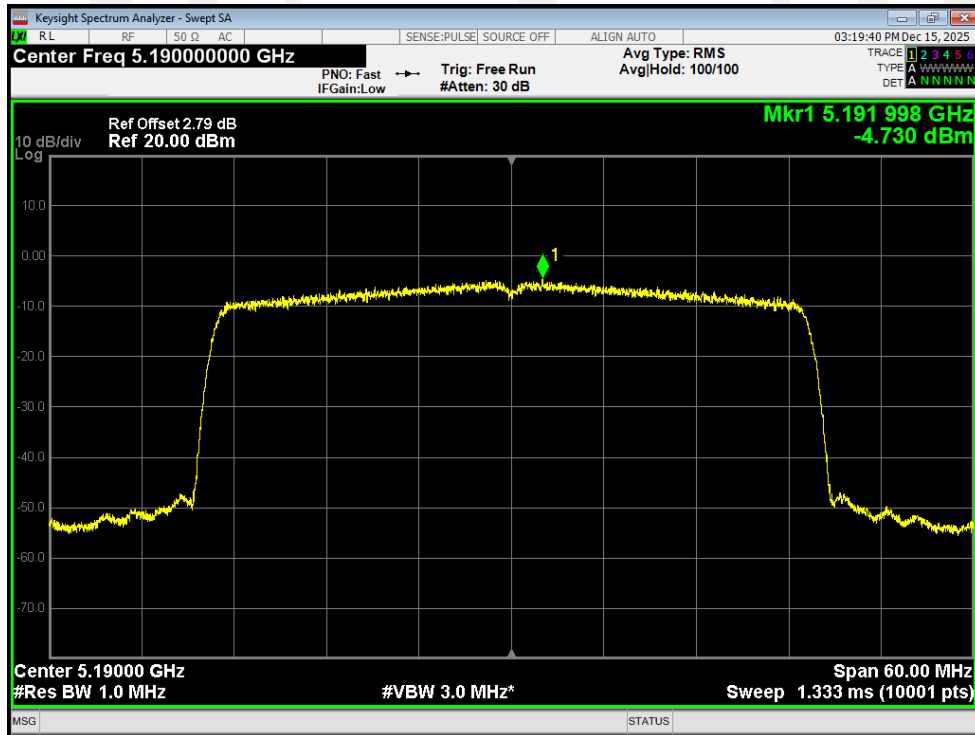
PSD NVNT ax20 5200MHz Ant1



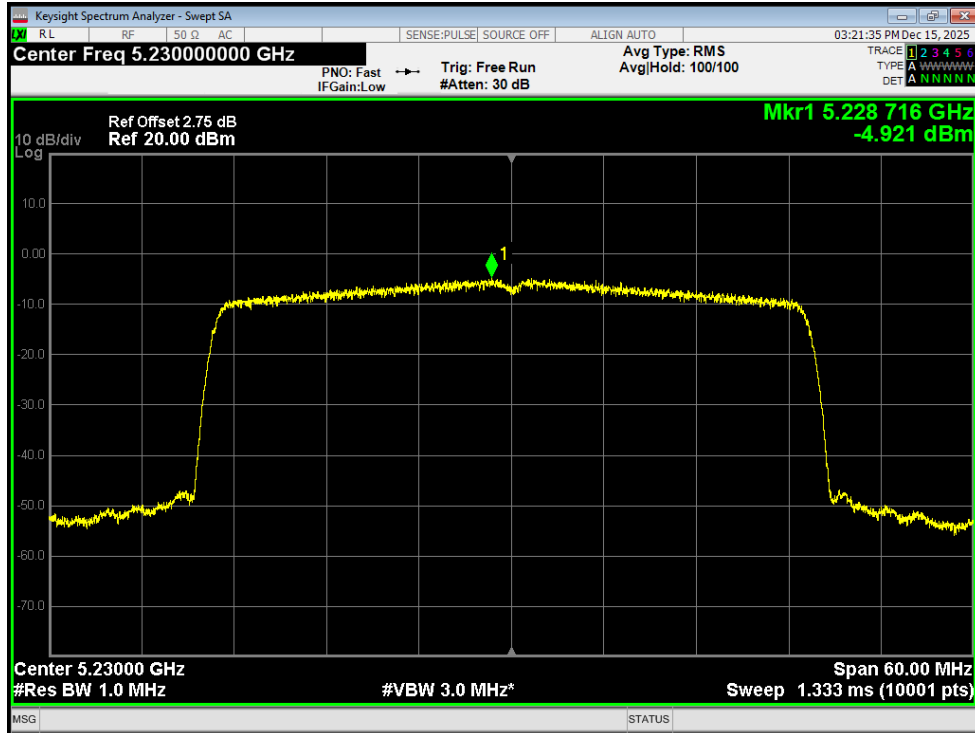
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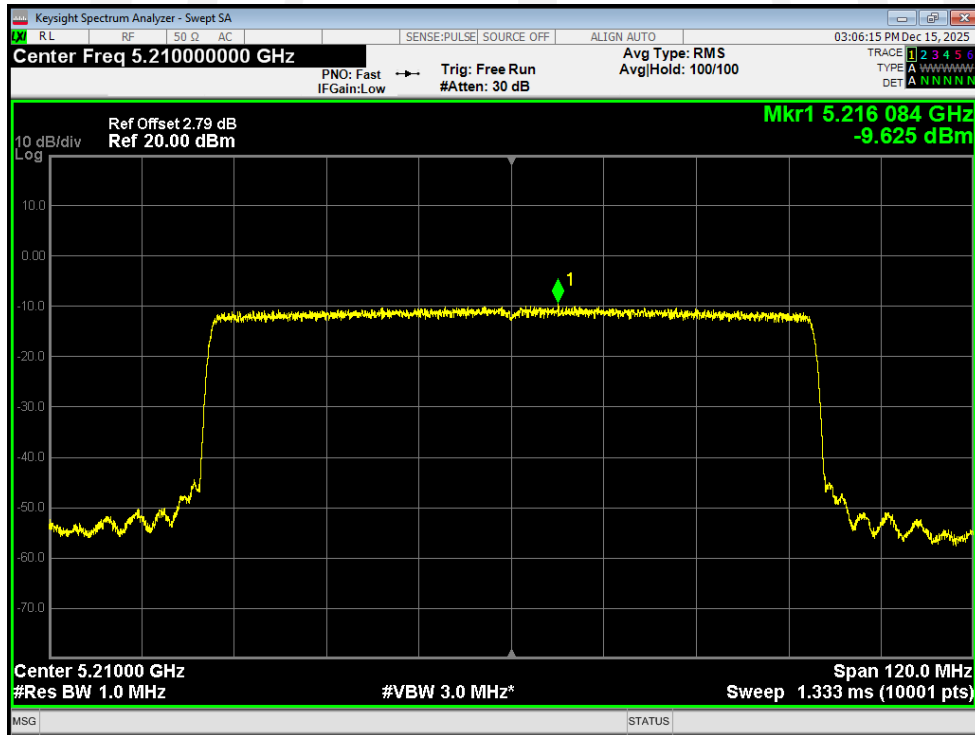
PSD NVNT ax40 5190MHz Ant1



PSD NVNT ax40 5230MHz Ant1



PSD NVNT ax80 5210MHz Ant1



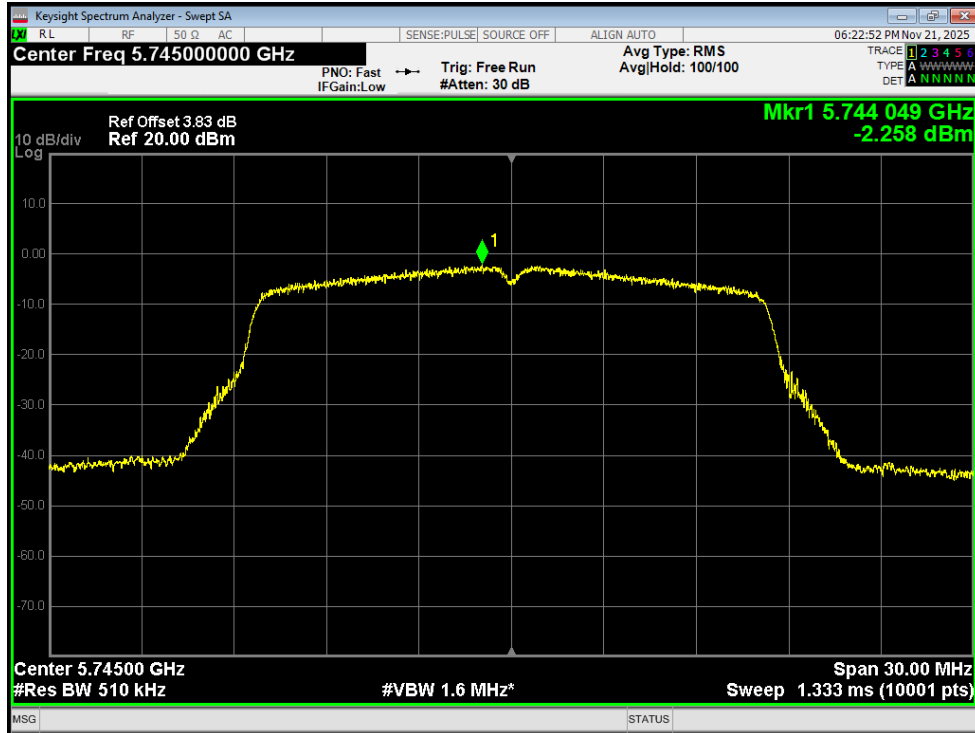
Mode	Frequency MHz	Measured Power Density (dBm/510KHz)	Measured Power Density (dBm/500KHz)	Correction Factor (dB)	Total Measured Power Density (dBm/500KHz)	Limit (dBm/500kHz)
802.11a	5745	-2.258	-2.344	0	-2.344	30
	5785	-2.453	-2.539	0	-2.539	30
	5825	-2.26	-2.346	0	-2.346	30
802.11n20	5745	-2.452	-2.538	0	-2.538	30
	5785	-2.339	-2.425	0	-2.425	30
	5825	-2.259	-2.345	0	-2.345	30
802.11ac20	5745	-7.063	-7.149	0	-7.149	30
	5785	-6.997	-7.083	0	-7.083	30
	5825	-2.608	-2.694	0	-2.694	30
802.11n40	5755	-2.308	-2.394	0	-2.394	30
	5795	-2.854	-2.940	0	-2.940	30
802.11ac40	5755	-6.563	-6.649	0	-6.649	30
	5795	-6.163	-6.249	0	-6.249	30
802.11ac80	5775	-12.488	-12.574	0	-12.574	30
802.11ax20	5745	-3.882	-3.968	0	-3.968	30
	5785	-4.082	-4.168	0	-4.168	30
	5825	-3.814	-3.900	0	-3.900	30
802.11ax40	5755	-7.961	-8.047	0	-8.047	30
	5795	-7.569	-7.655	0	-7.655	30
802.11ax80	5775	-13.582	-13.668	0	-13.668	30

Note: 1. If the measurement is X dBm/510kHz, thus $X \text{ dBm/510kHz} = (10^{X/10}) * (500 / 510) \text{ dBm/500kHz}$

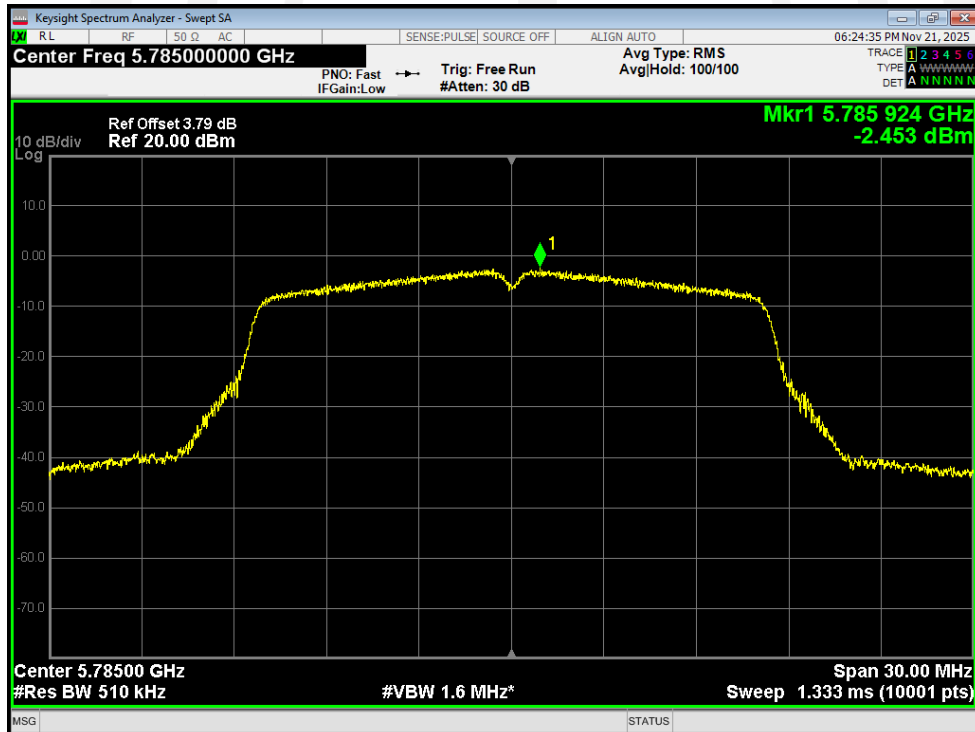
2. Correction Factor (dB)= duty cycle factor

3. Total PSD= Measured PSD (dBm/510kHz) + Correction factor duty cycle (dB)

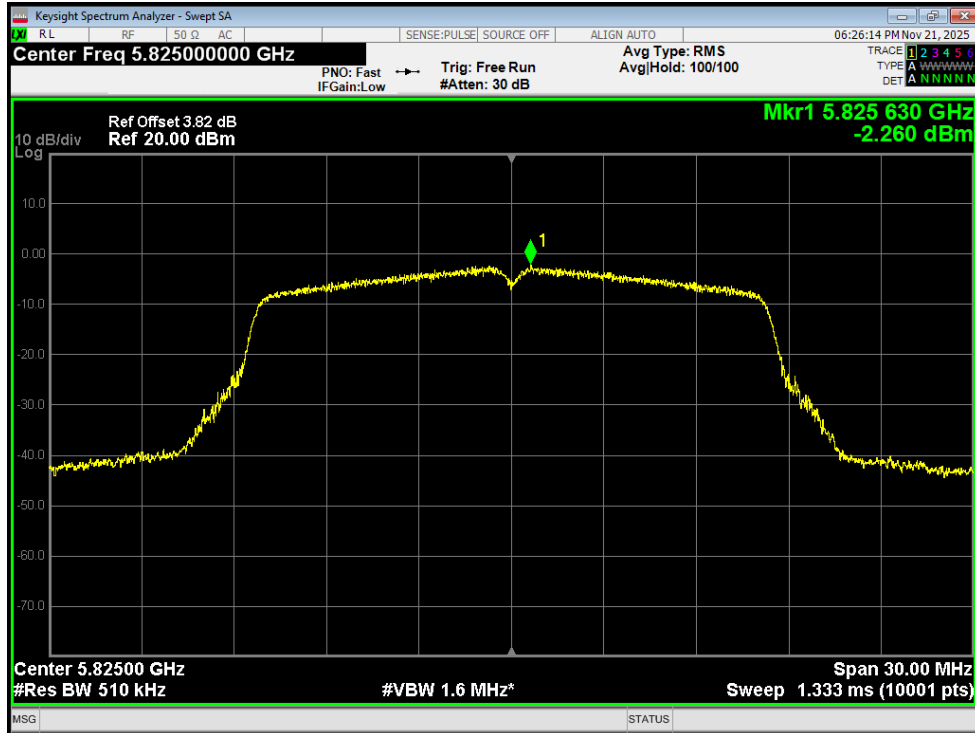
PSD NVNT a 5745MHz Ant1



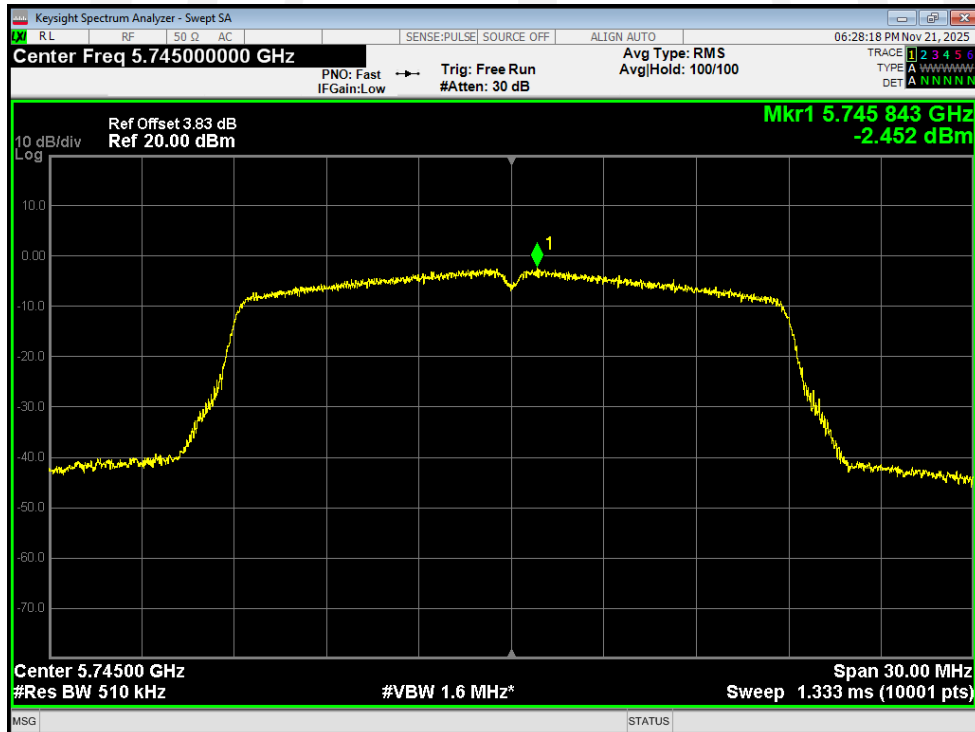
PSD NVNT a 5785MHz Ant1



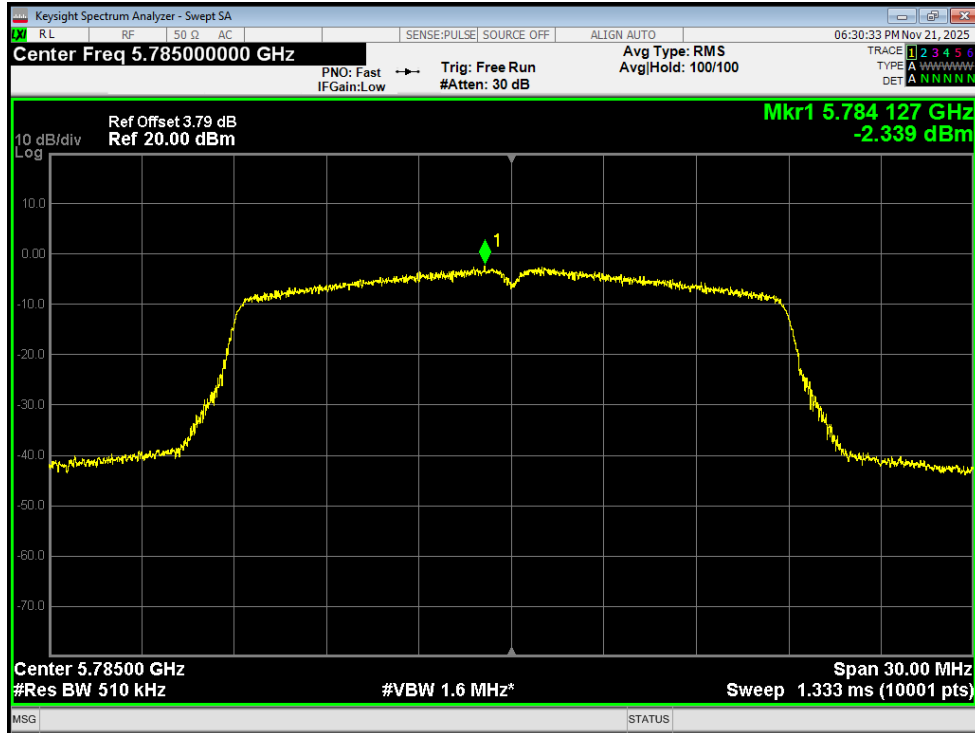
PSD NVNT a 5825MHz Ant1



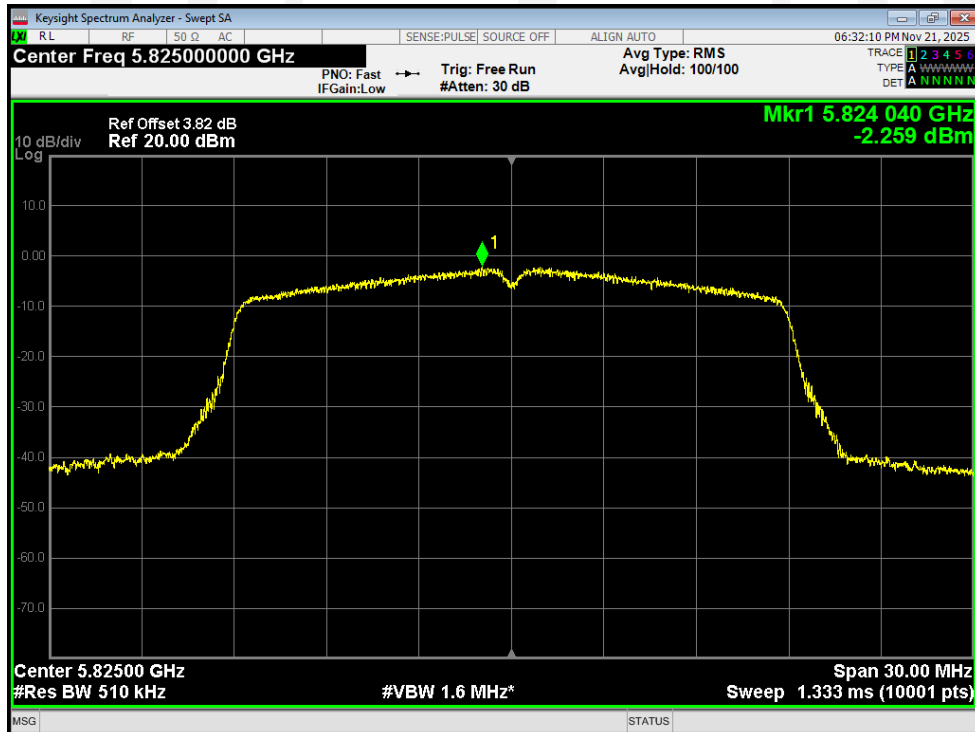
PSD NVNT n20 5745MHz Ant1



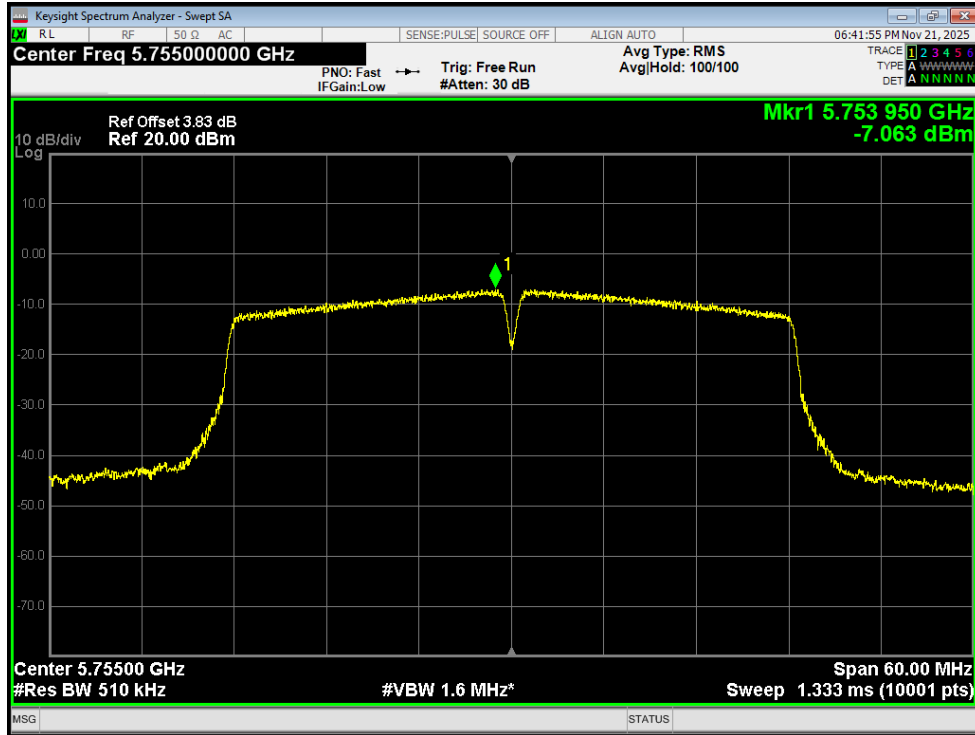
PSD NVNT n20 5785MHz Ant1



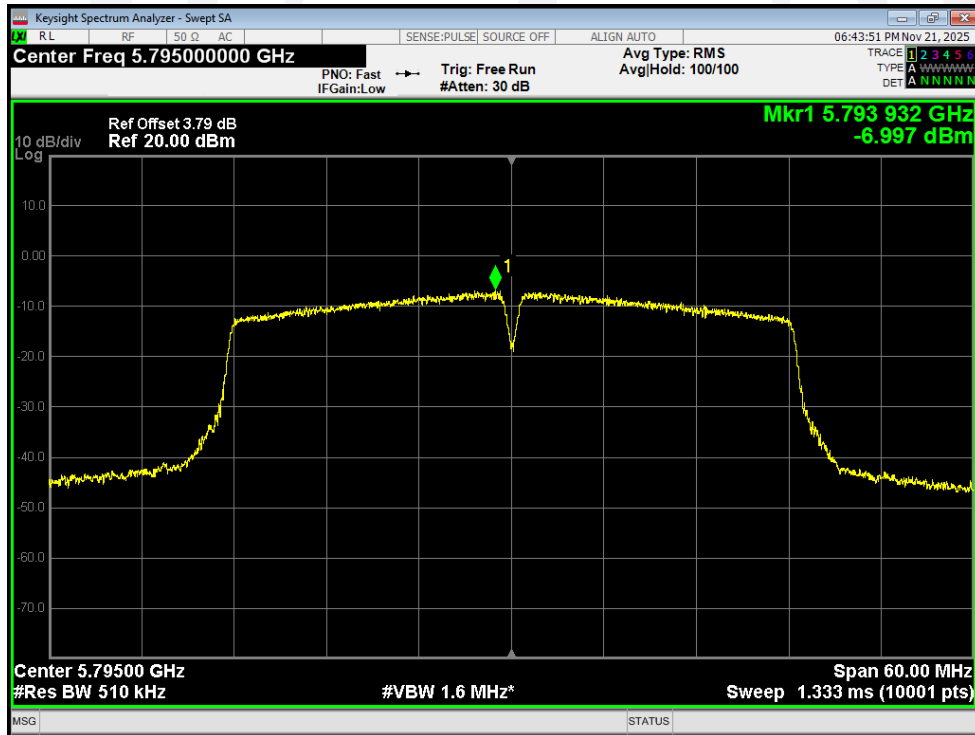
PSD NVNT n20 5825MHz Ant1



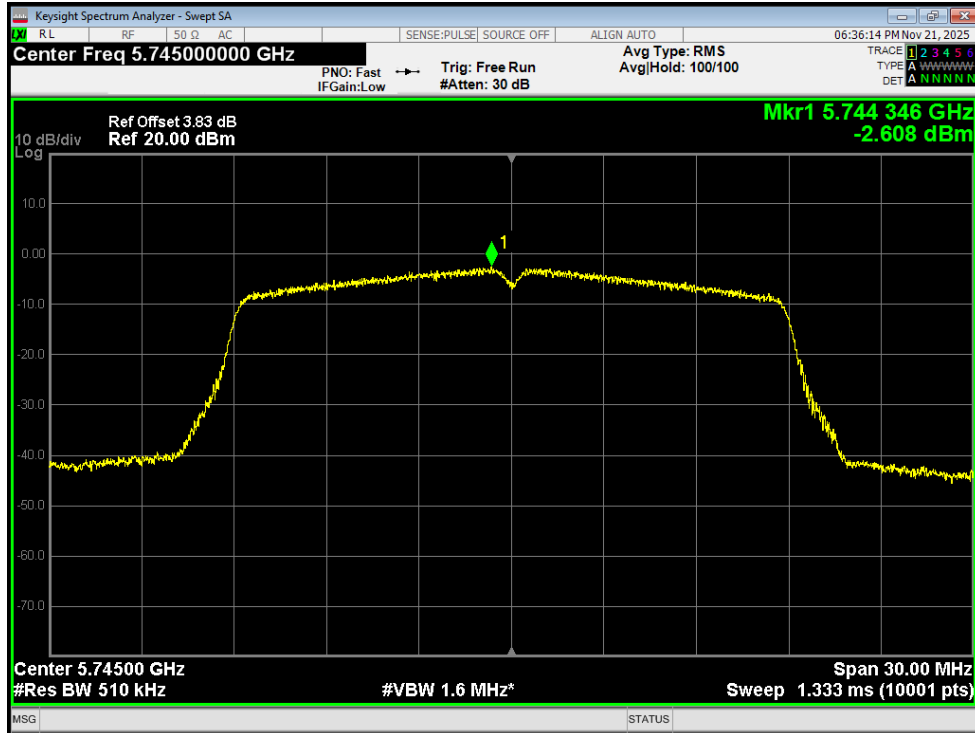
PSD NVNT n40 5755MHz Ant1



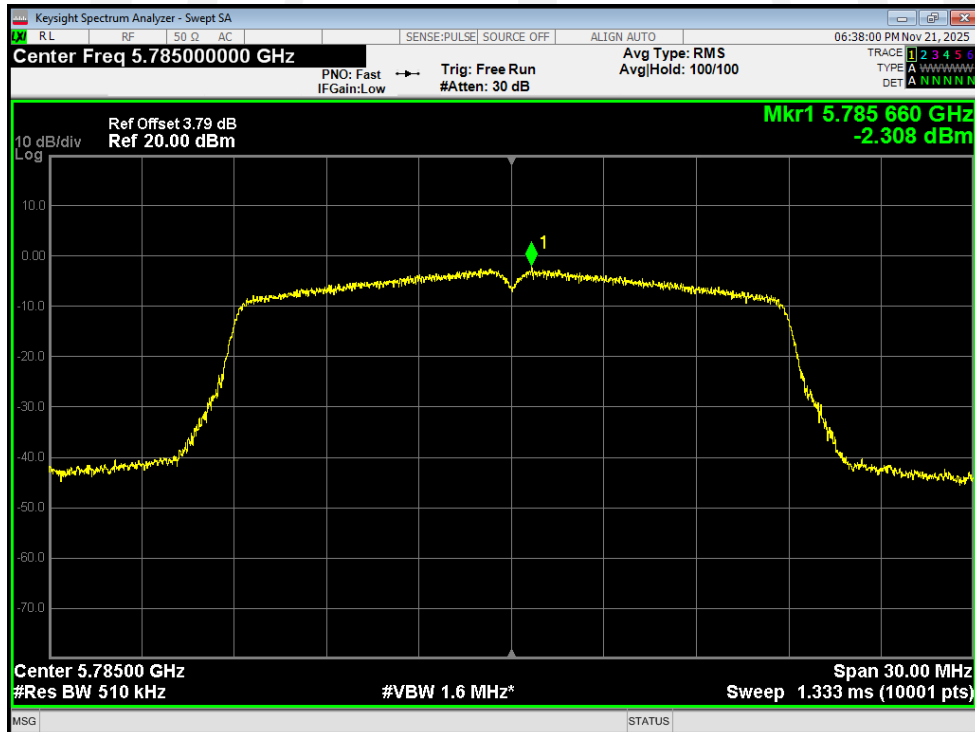
PSD NVNT n40 5795MHz Ant1



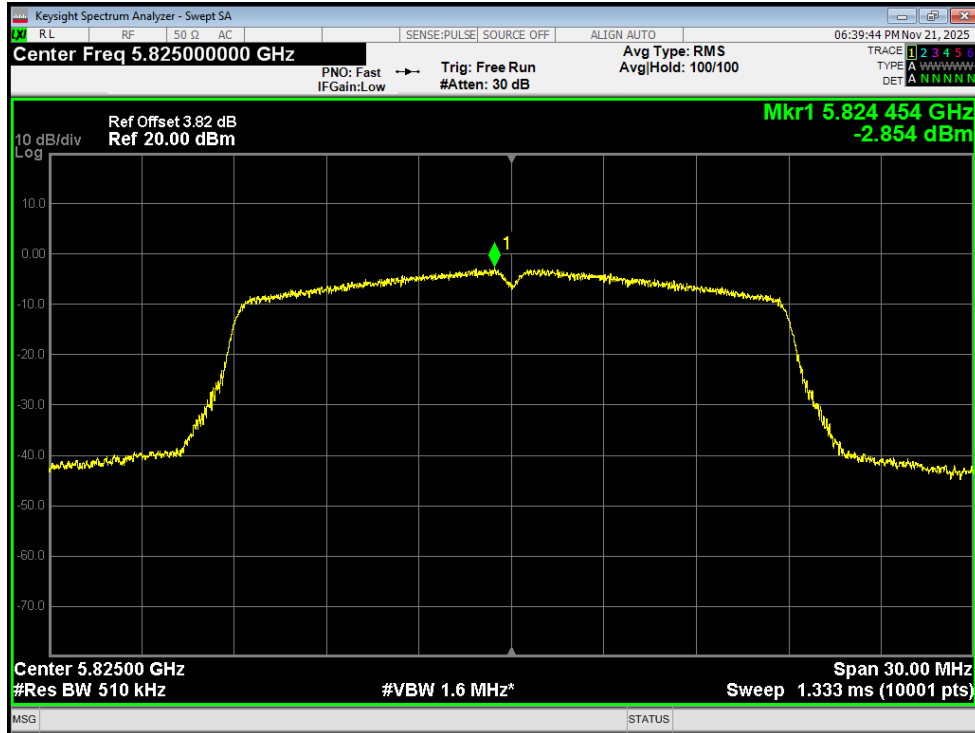
PSD NVNT ac20 5745MHz Ant1



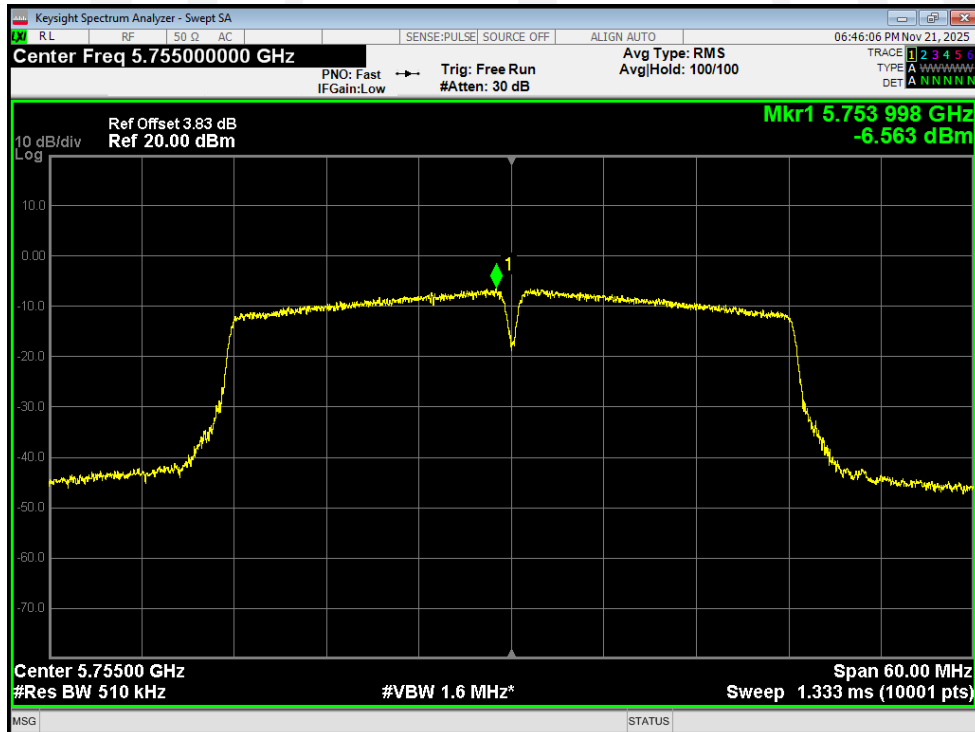
PSD NVNT ac20 5785MHz Ant1



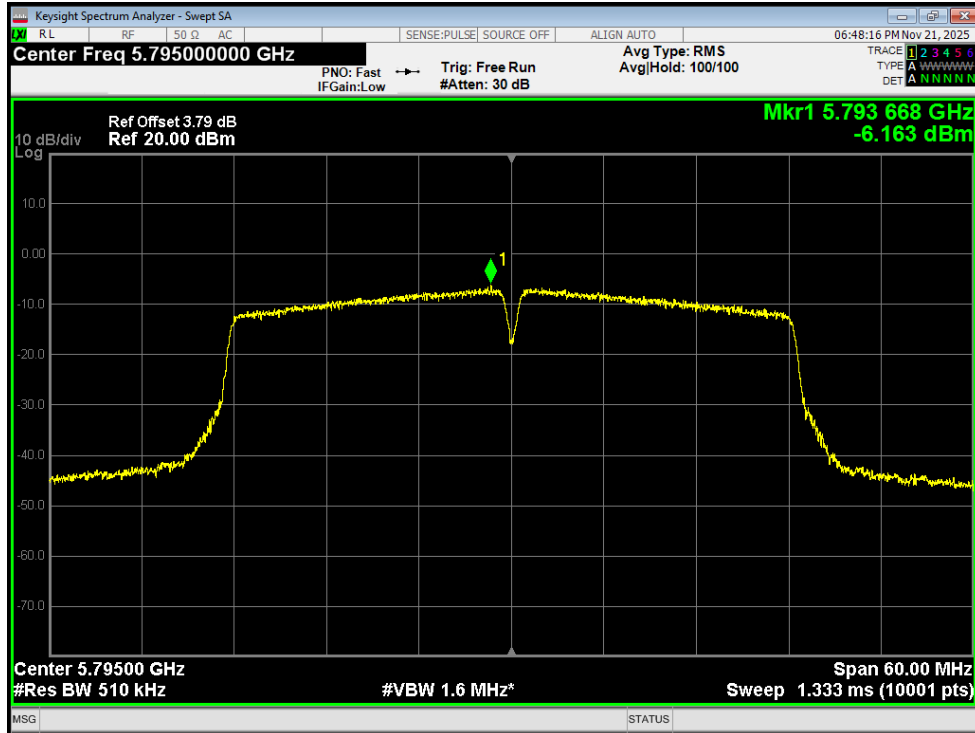
PSD NVNT ac20 5825MHz Ant1



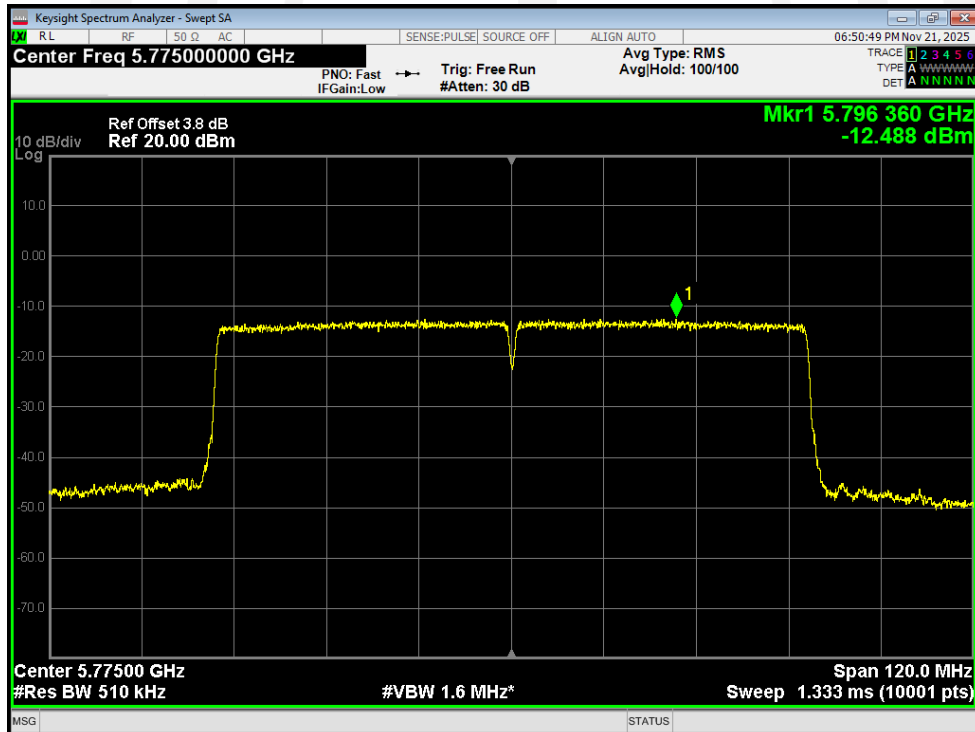
PSD NVNT ac40 5755MHz Ant1



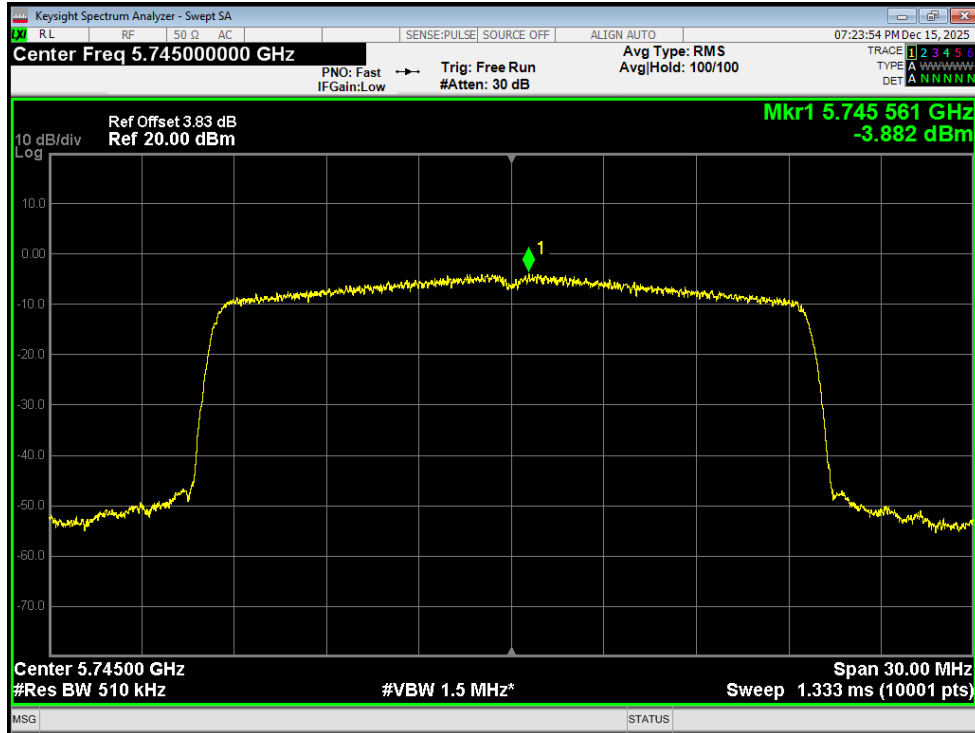
PSD NVNT ac40 5795MHz Ant1



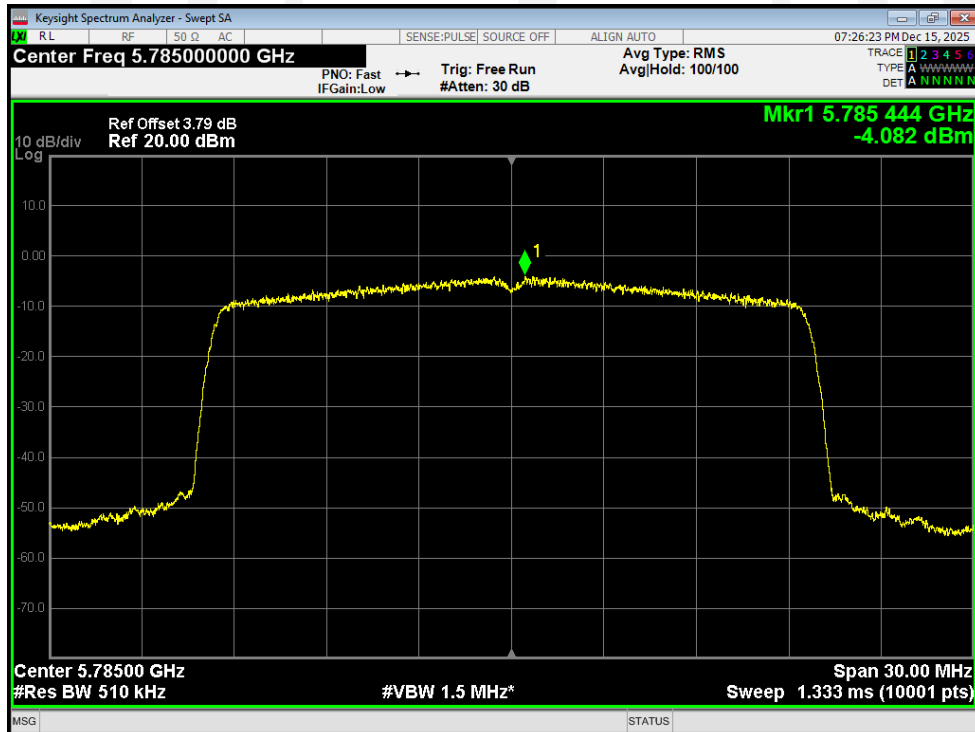
PSD NVNT ac80 5775MHz Ant1



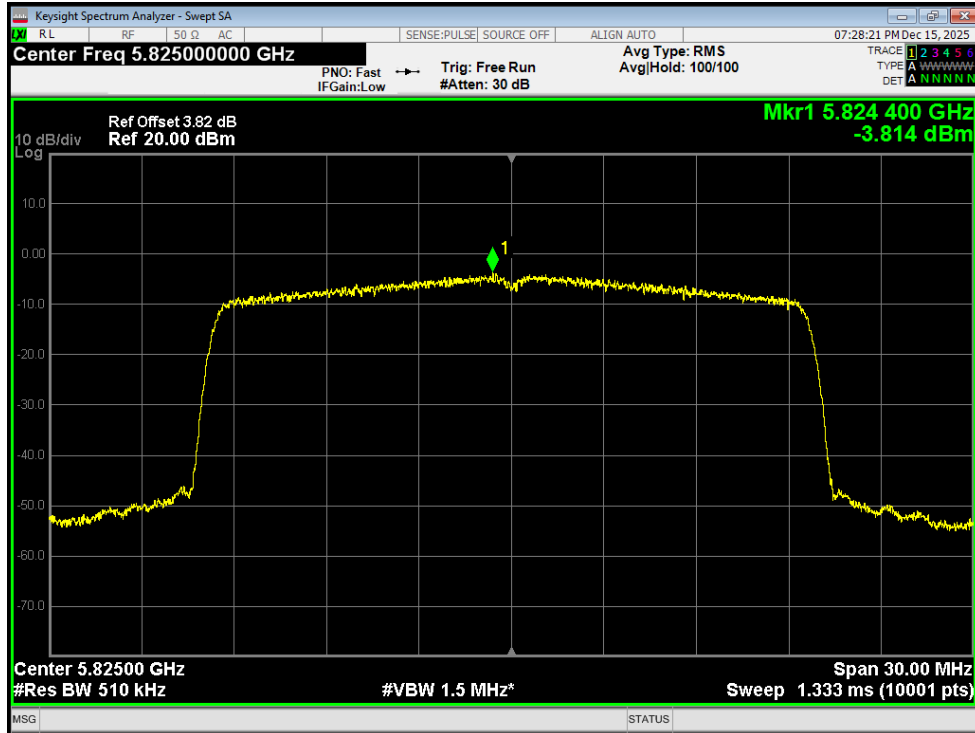
PSD NVNT ax20 5745MHz Ant1



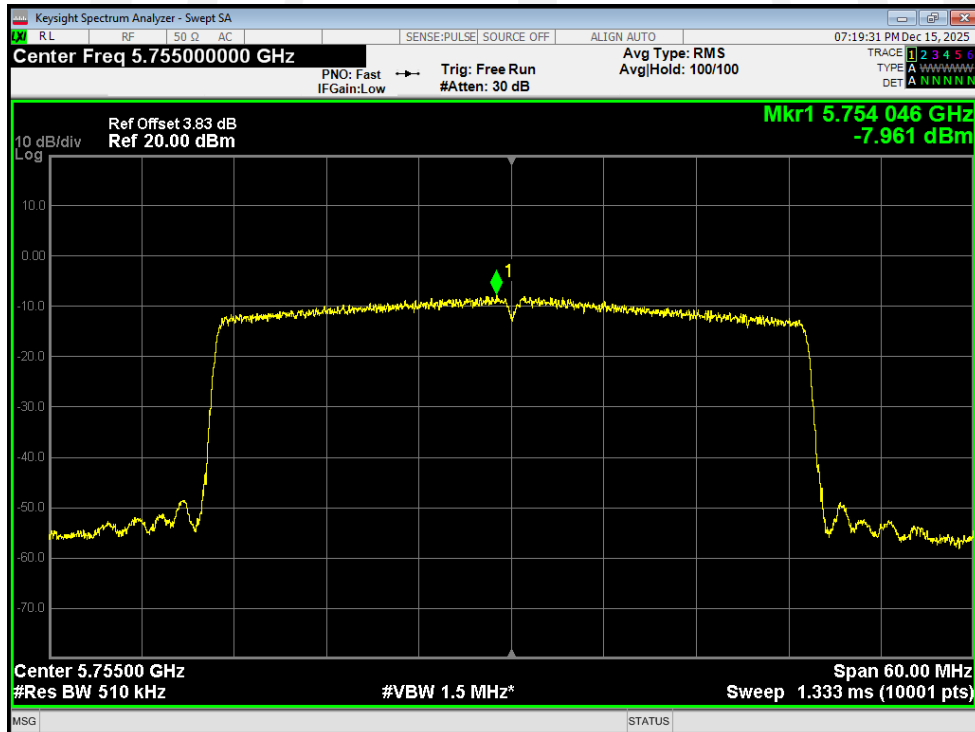
PSD NVNT ax20 5785MHz Ant1



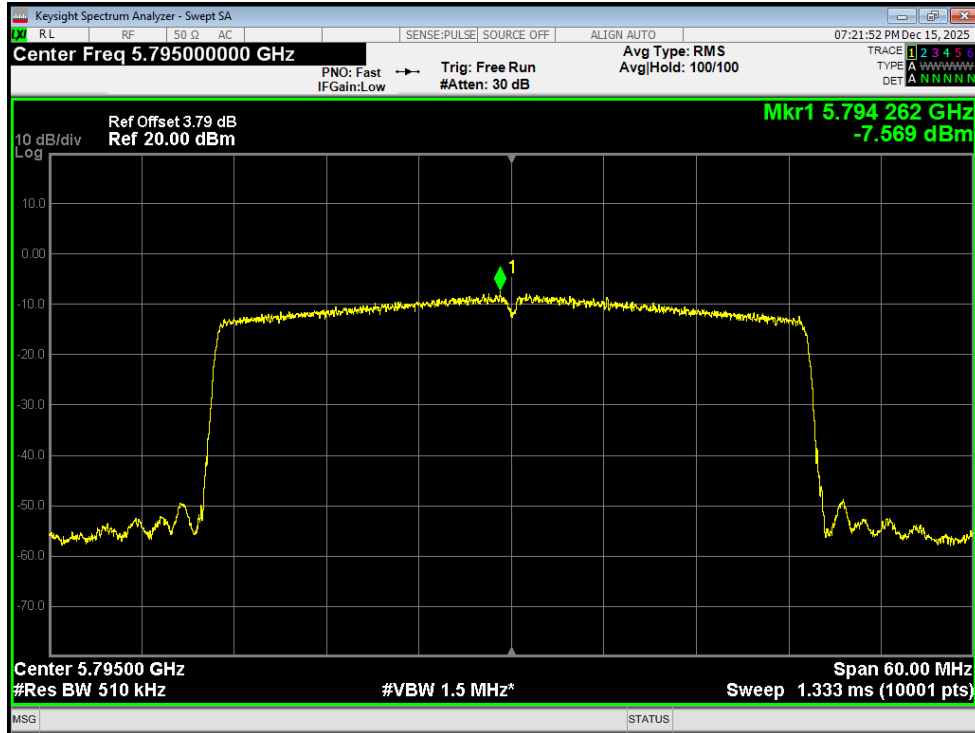
PSD NVNT ax20 5825MHz Ant1



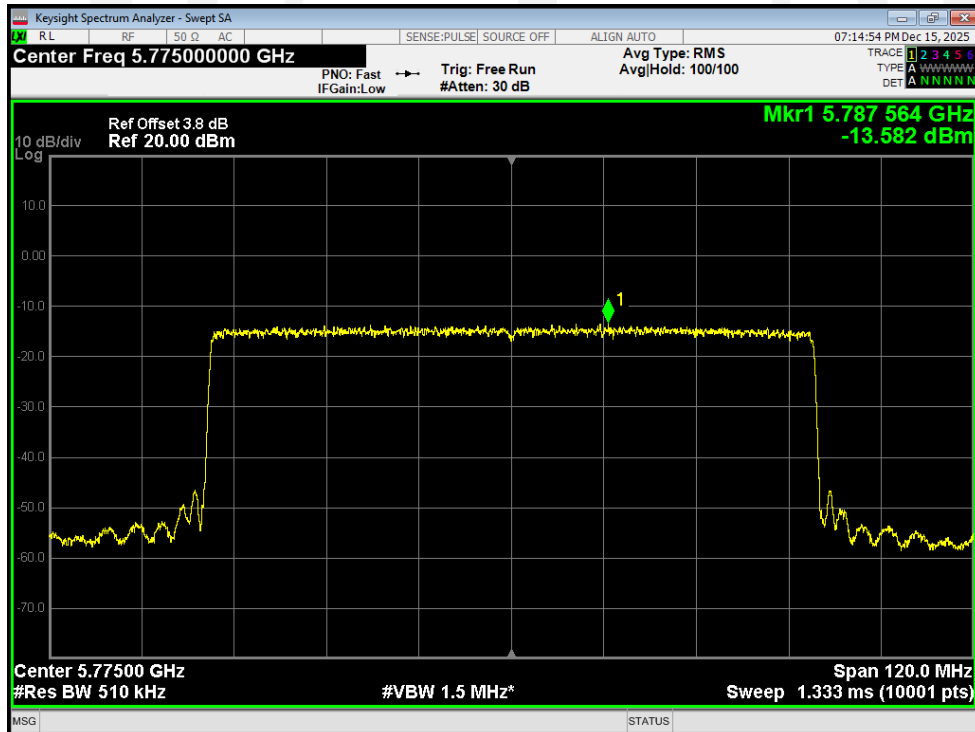
PSD NVNT ax40 5755MHz Ant1



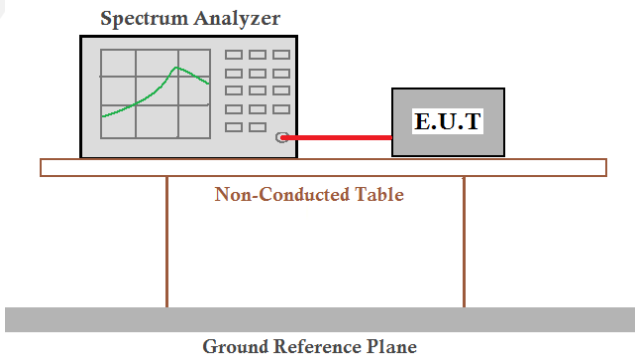
PSD NVNT ax40 5795MHz Ant1



PSD NVNT ax80 5775MHz Ant1



4.7 Band Edge

Test Requirement:	47CFR Part 15.209 and 15.205	
Test Method:	ANSI C63.10-2020 §6.10.2	
Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating solely in the 5.725-5.850 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer and an E.U.T. (Equipment Under Test) are connected by a red cable. They are both placed on a brown rectangular table labeled 'Non-Conducted Table'. This table is supported by two vertical legs and sits on a grey horizontal bar labeled 'Ground Reference Plane'.	
Test Procedure:	1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range. 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span. 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency. 5. Repeat above procedures until all measured frequencies were complete..	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.4°C	Humid.: 41%RH
Test voltage:	DC 3.85V	
Test results:	Pass	

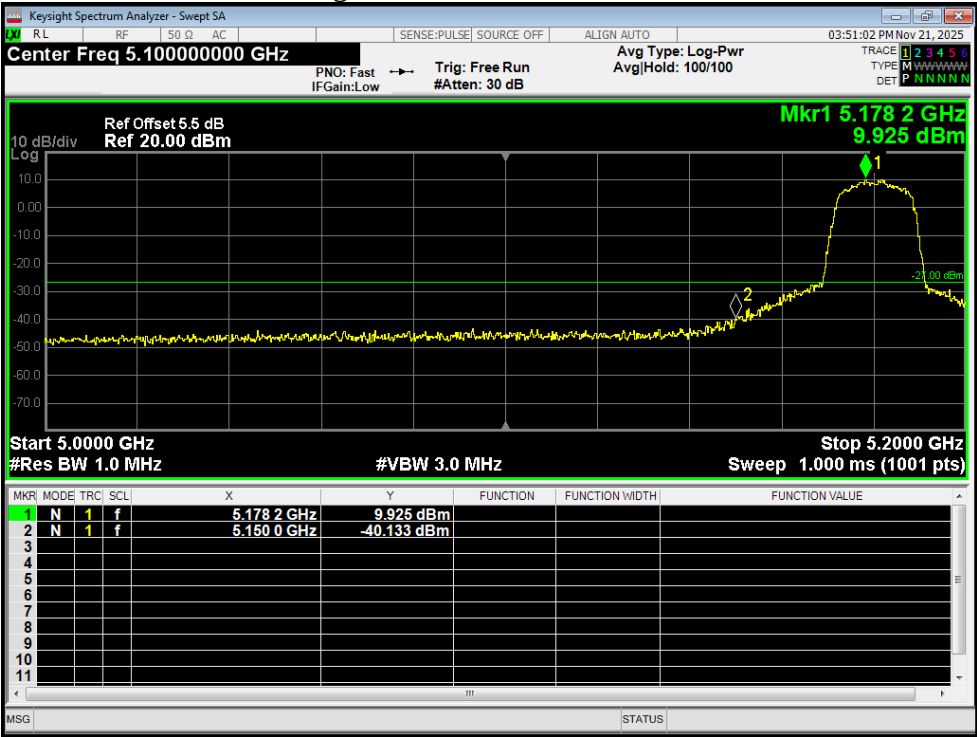
Remark:

- 1) According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:
 $E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2$, For example, if $\text{EIRP} = -27\text{dBm}$, $E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}$.
- 2) $\text{Ref offset}(\text{dB}) = \text{Antenna gain}(\text{dBi}) + \text{cable loss}(\text{dB})$.

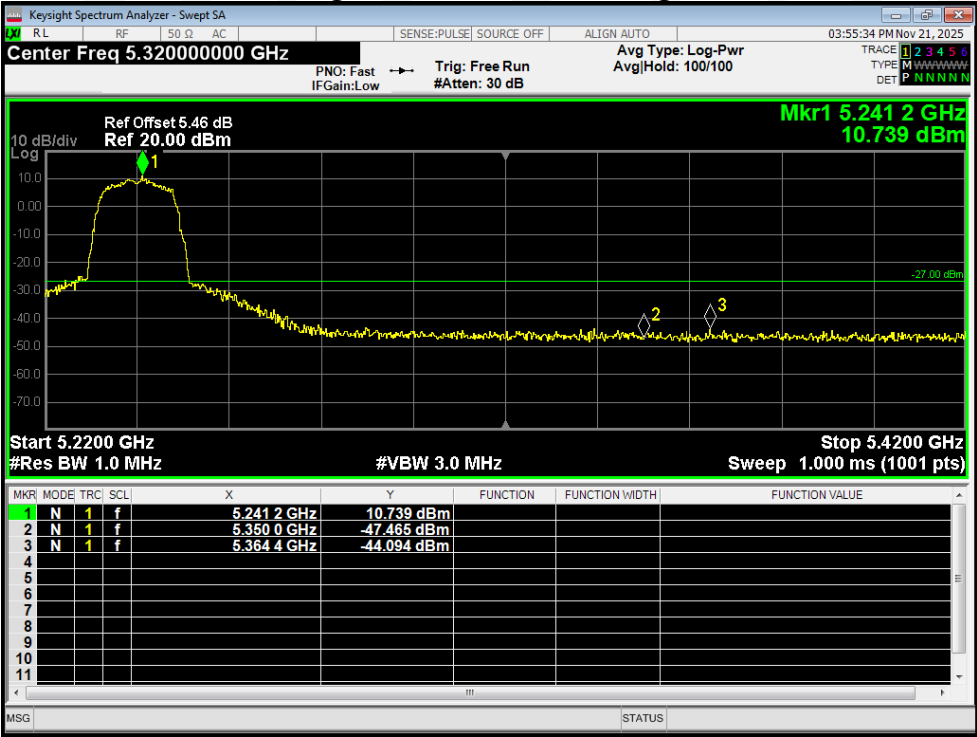
Measurement Data:

UNII-1

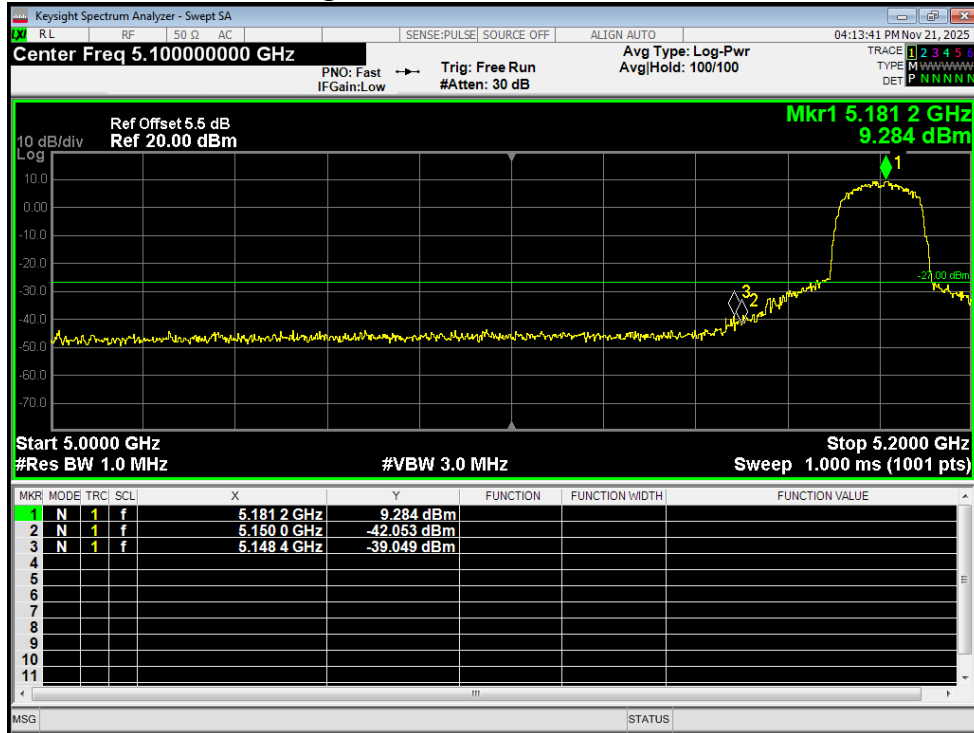
Band Edge NVNT a 5180MHz Low Ant1



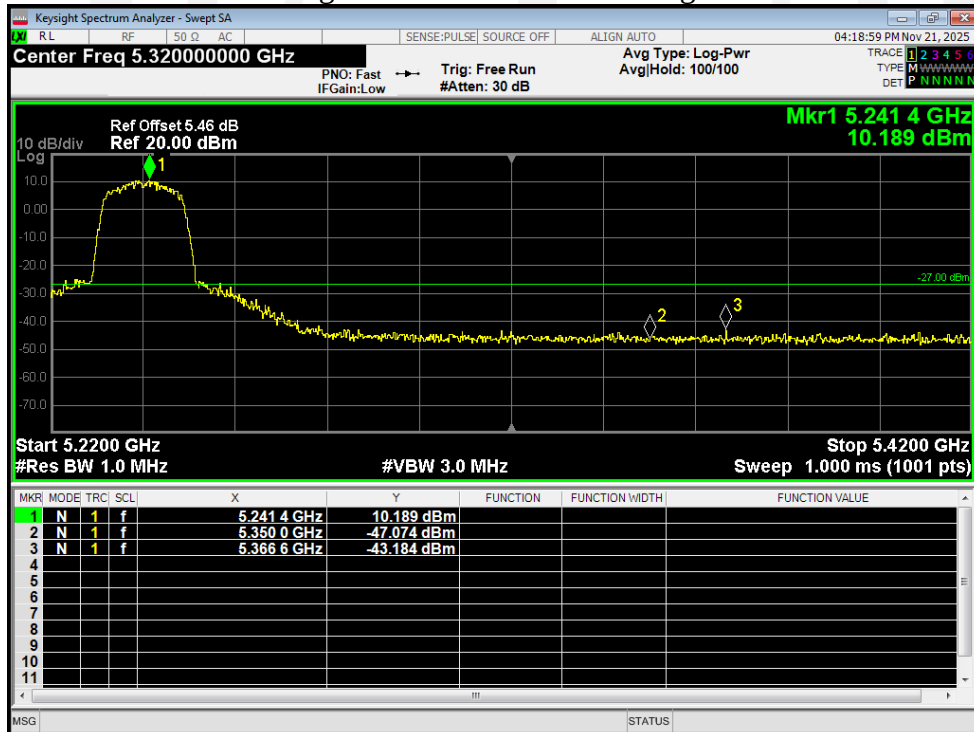
Band Edge NVNT a 5240MHz High Ant1



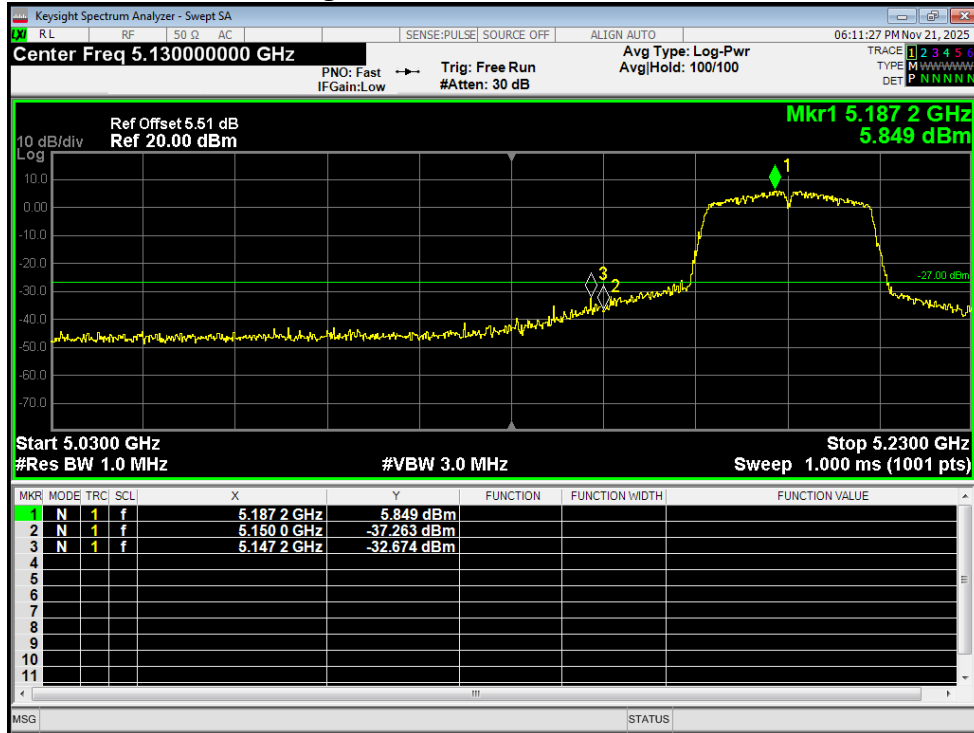
Band Edge NVNT n20 5180MHz Low Ant1



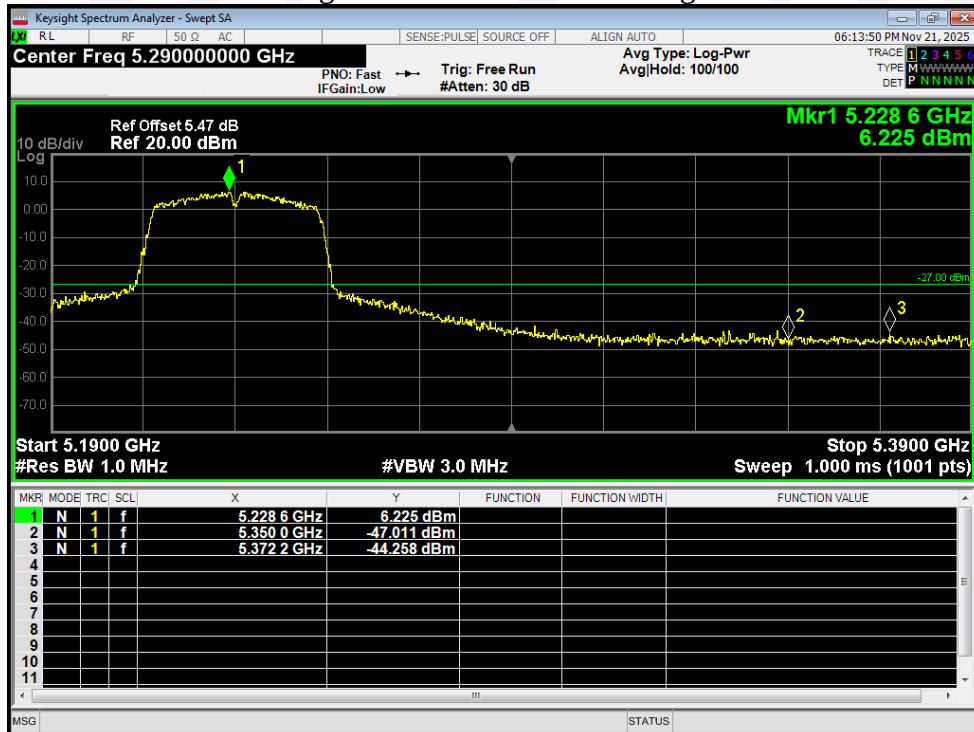
Band Edge NVNT n20 5240MHz High Ant1



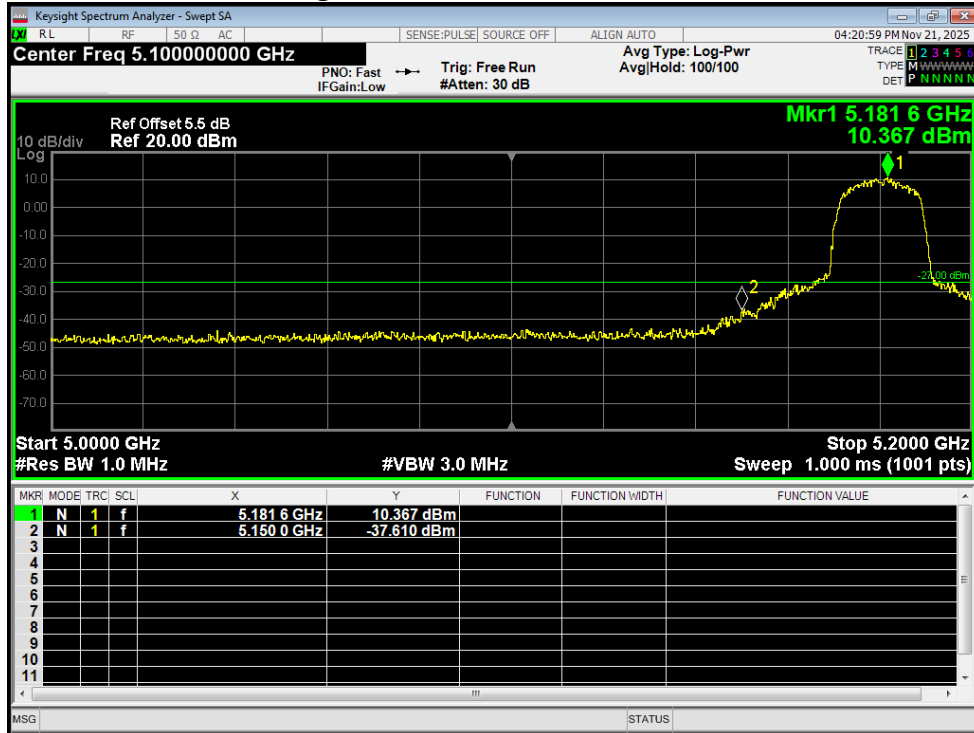
Band Edge NVNT n40 5190MHz Low Ant1



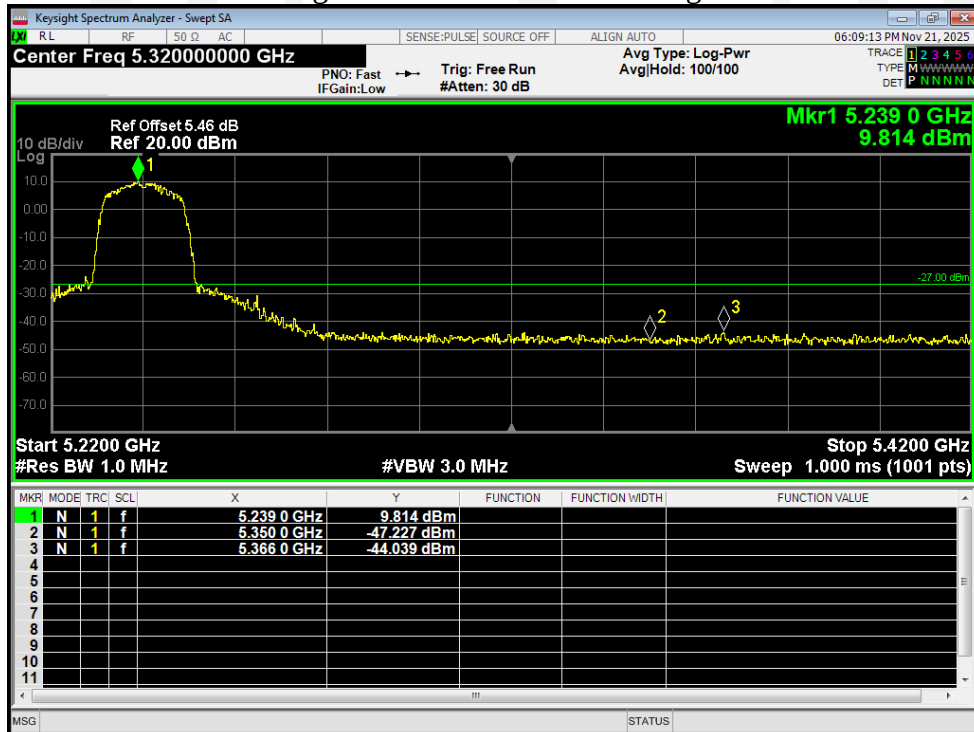
Band Edge NVNT n40 5230MHz High Ant1



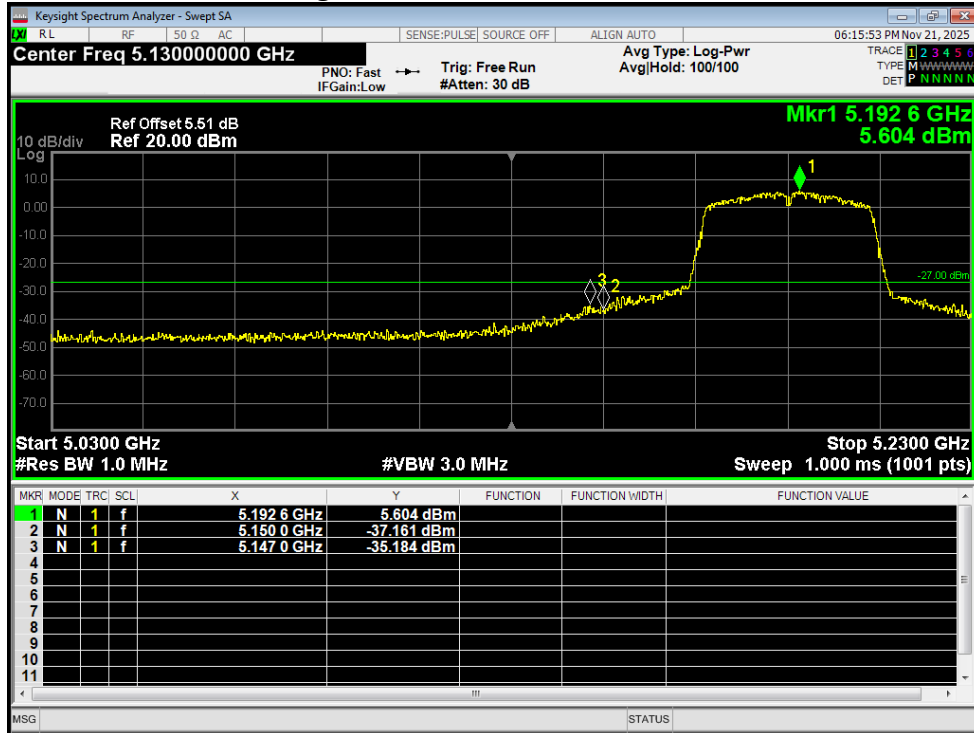
Band Edge NVNT ac20 5180MHz Low Ant1



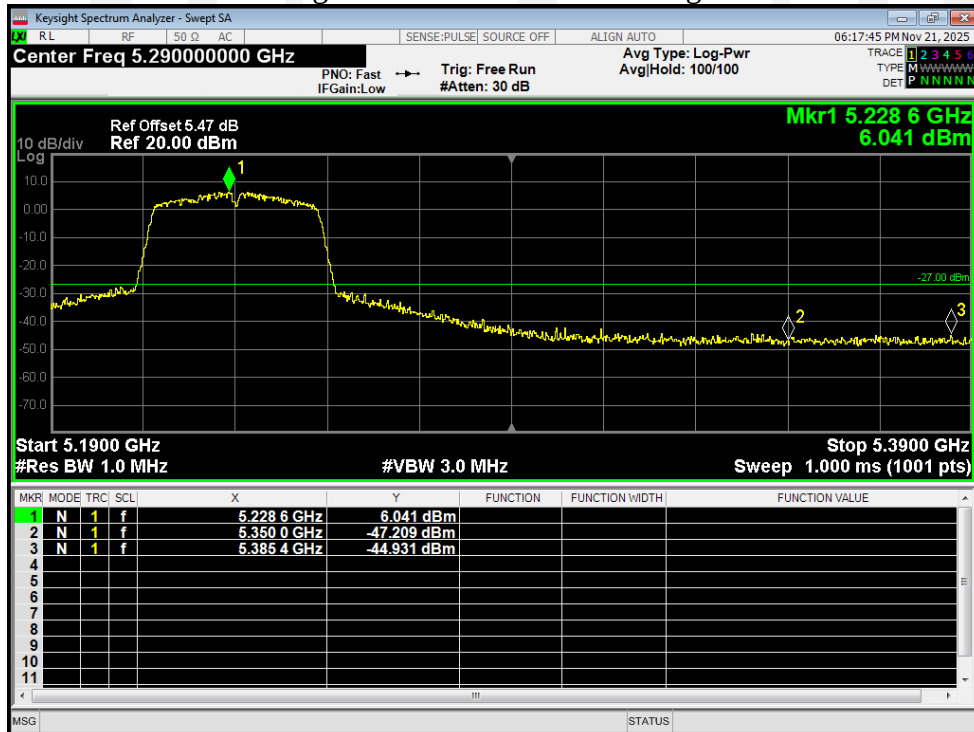
Band Edge NVNT ac20 5240MHz High Ant1



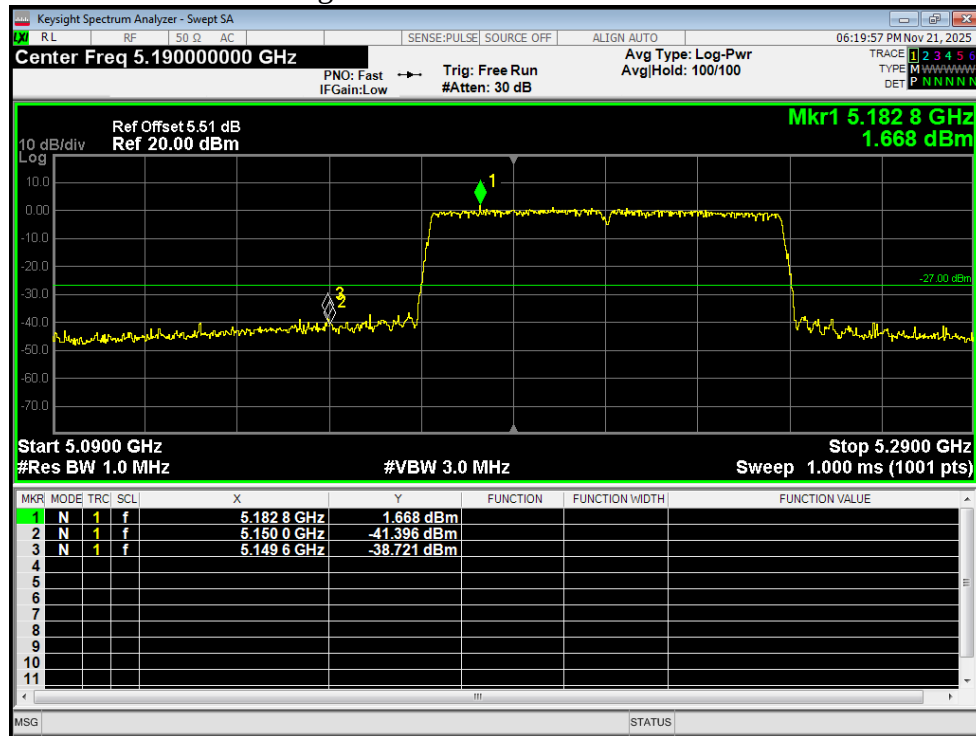
Band Edge NVNT ac40 5190MHz Low Ant1



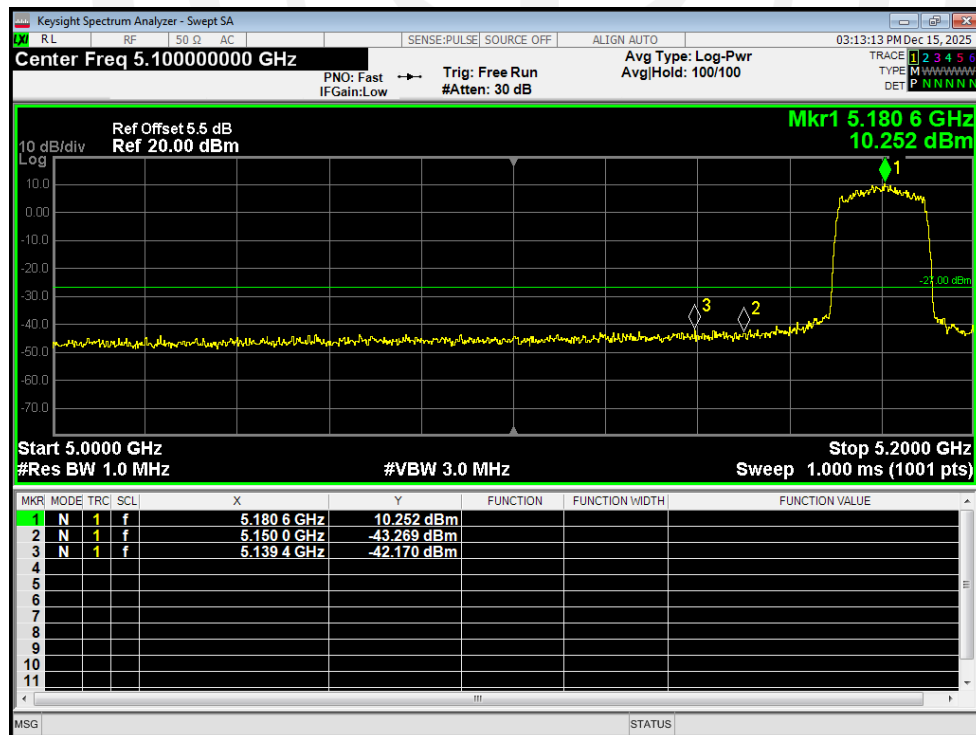
Band Edge NVNT ac40 5230MHz High Ant1



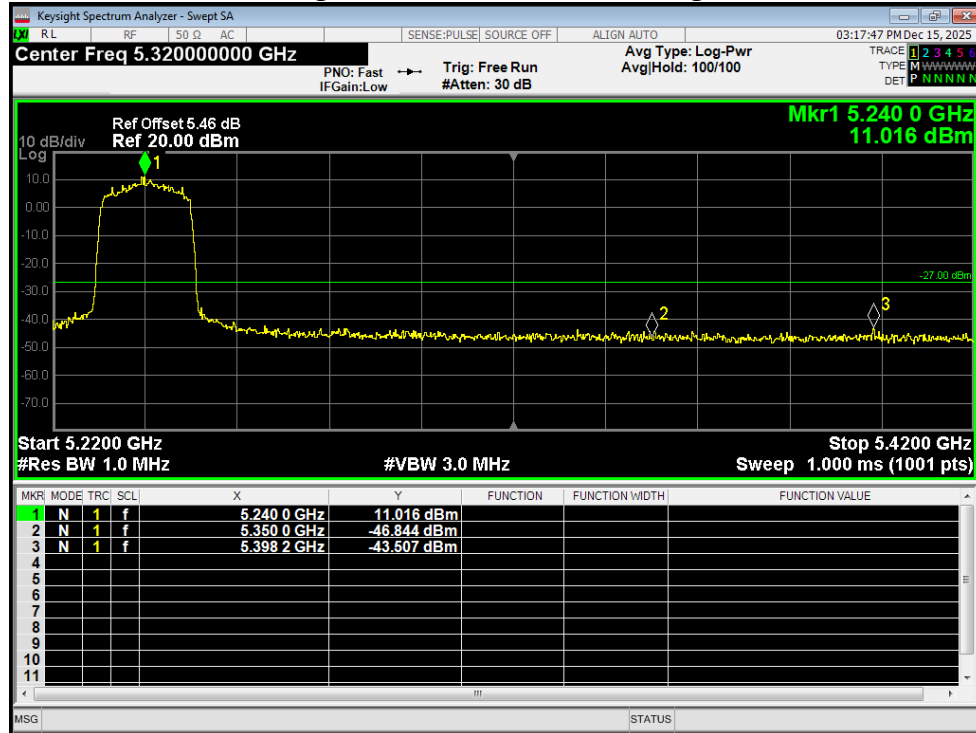
Band Edge NVNT ac80 5210MHz Low Ant1



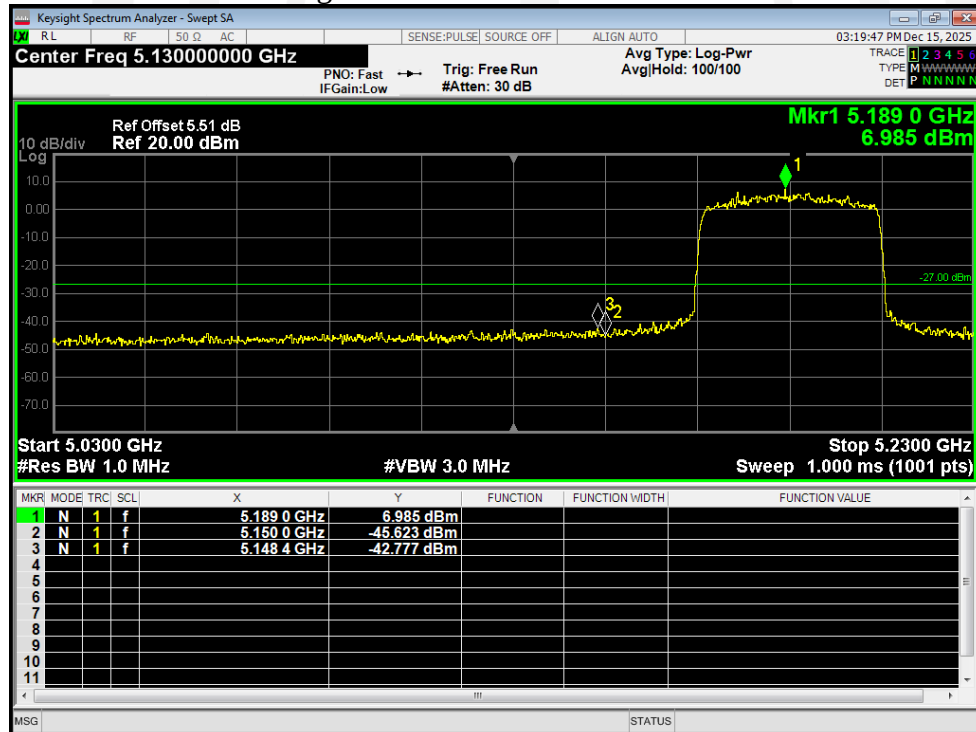
Band Edge NVNT ax20 5180MHz Low Ant1



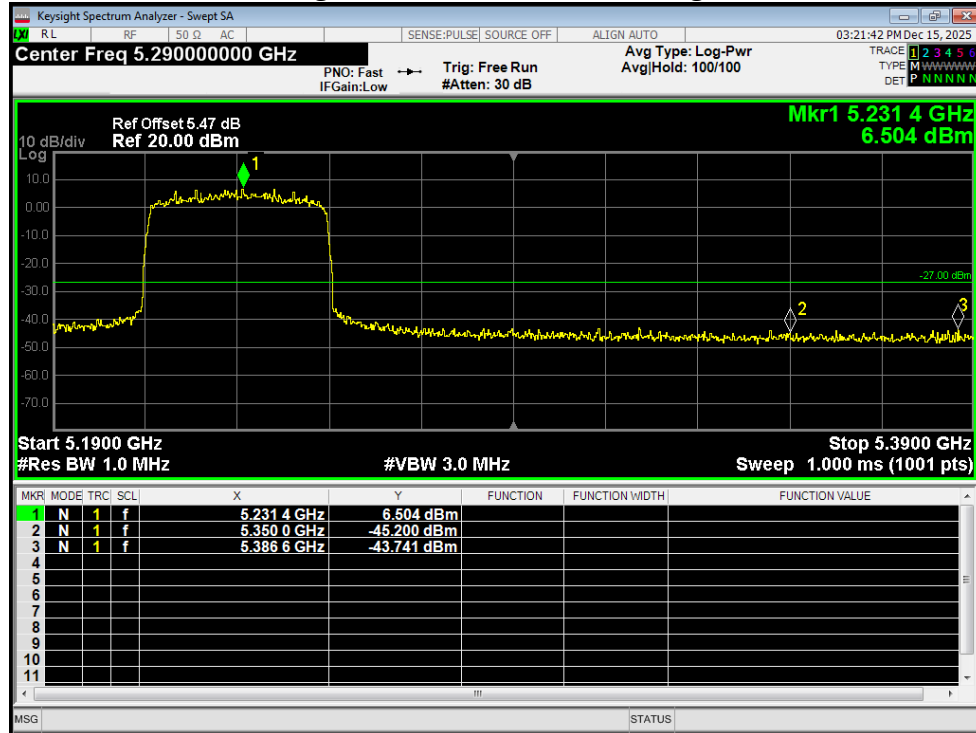
Band Edge NVNT ax20 5240MHz High Ant1



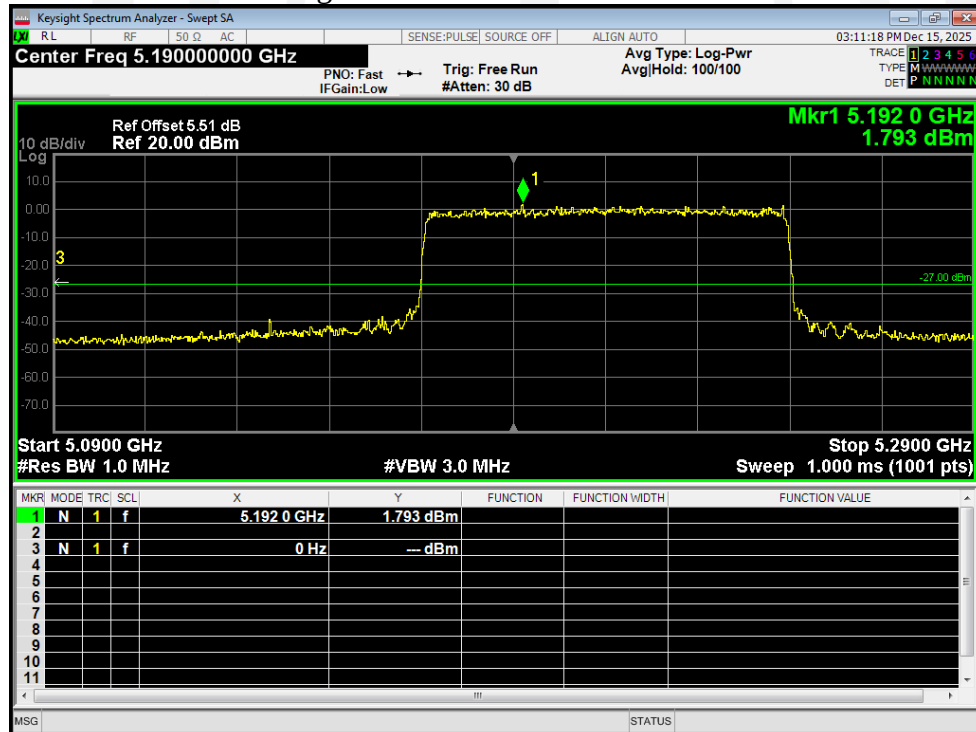
Band Edge NVNT ax40 5190MHz Low Ant1



Band Edge NVNT ax40 5230MHz High Ant1

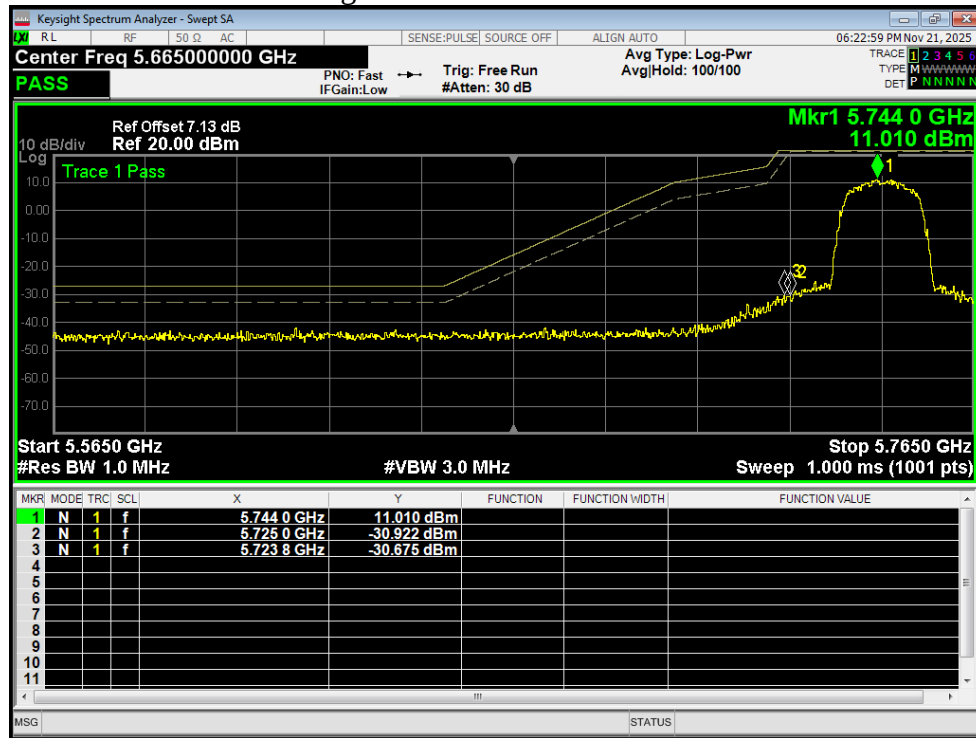


Band Edge NVNT ax80 5210MHz Low Ant1

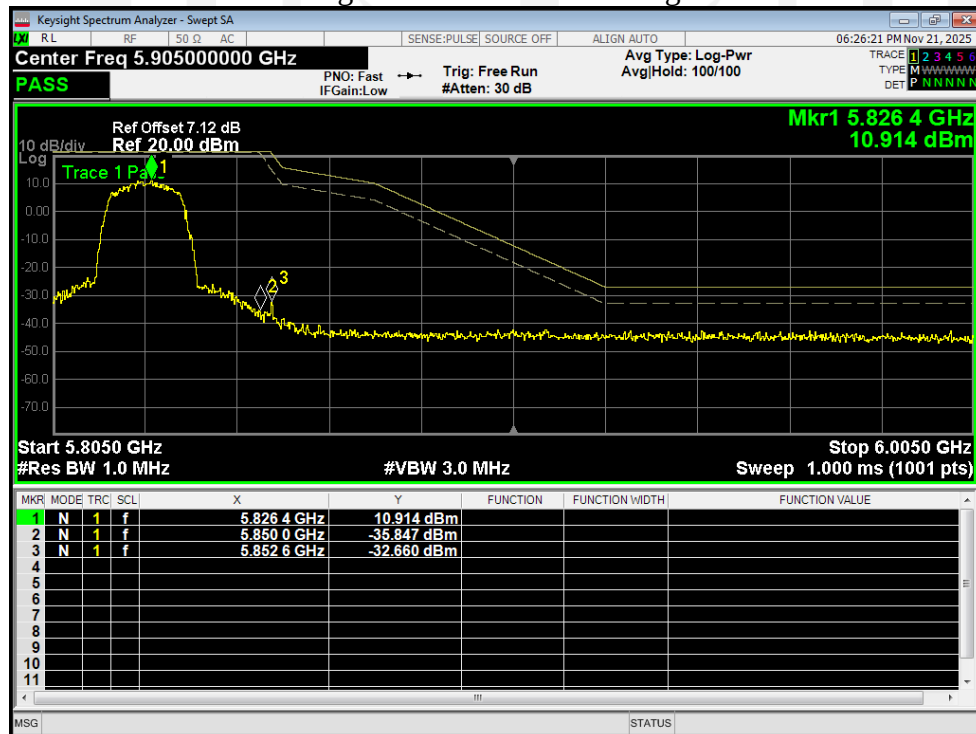


UNII-3

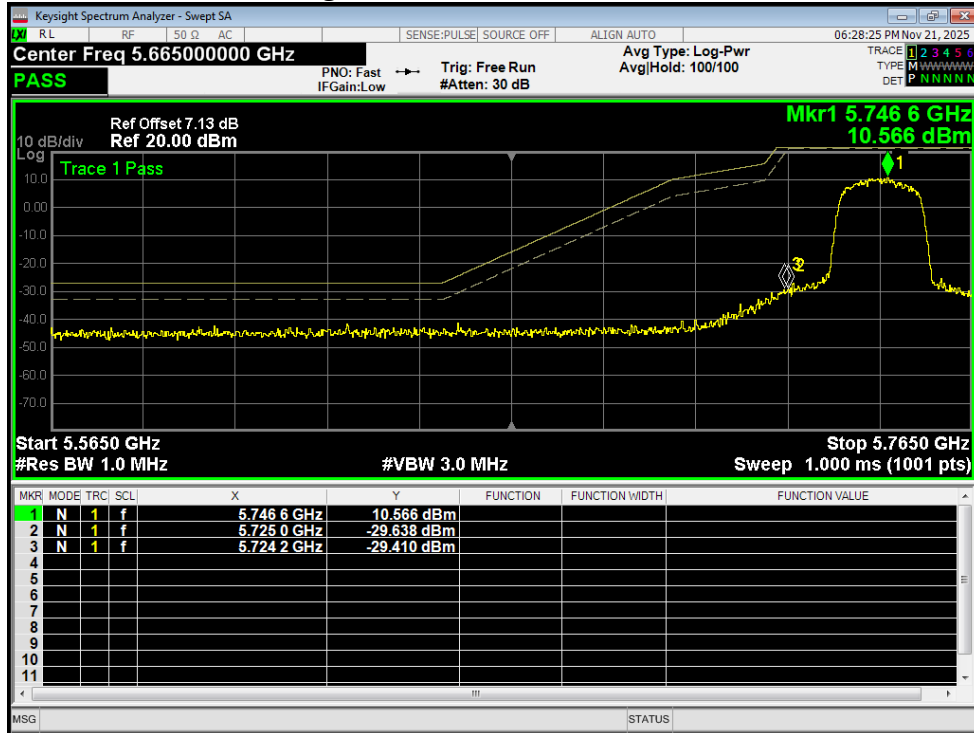
Band Edge NVNT a 5745MHz Low Ant1



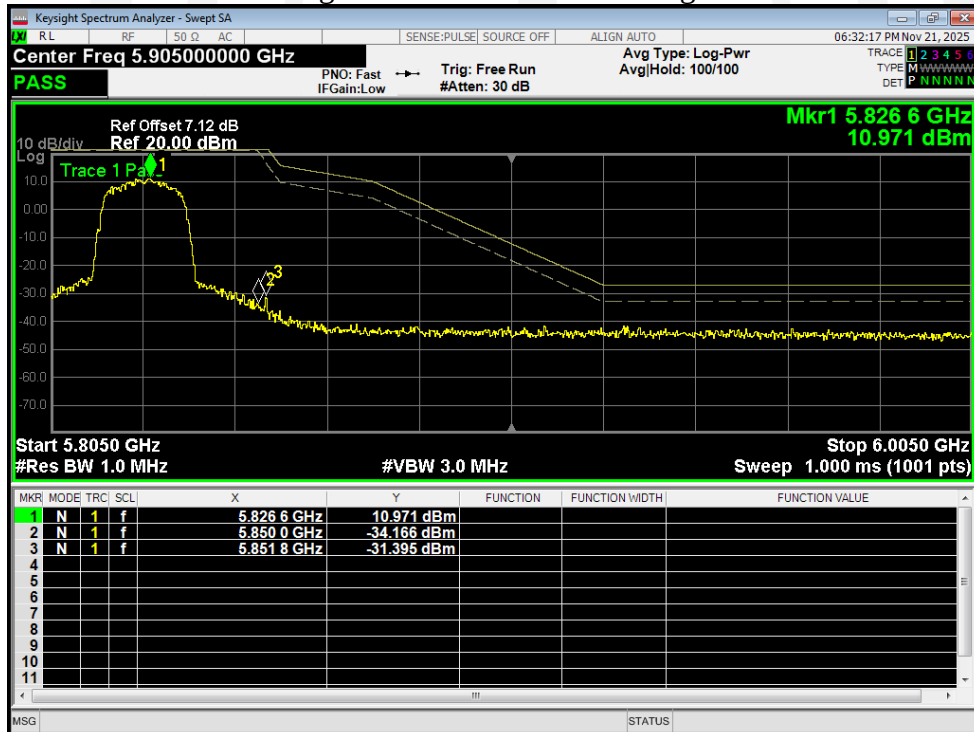
Band Edge NVNT a 5825MHz High Ant1



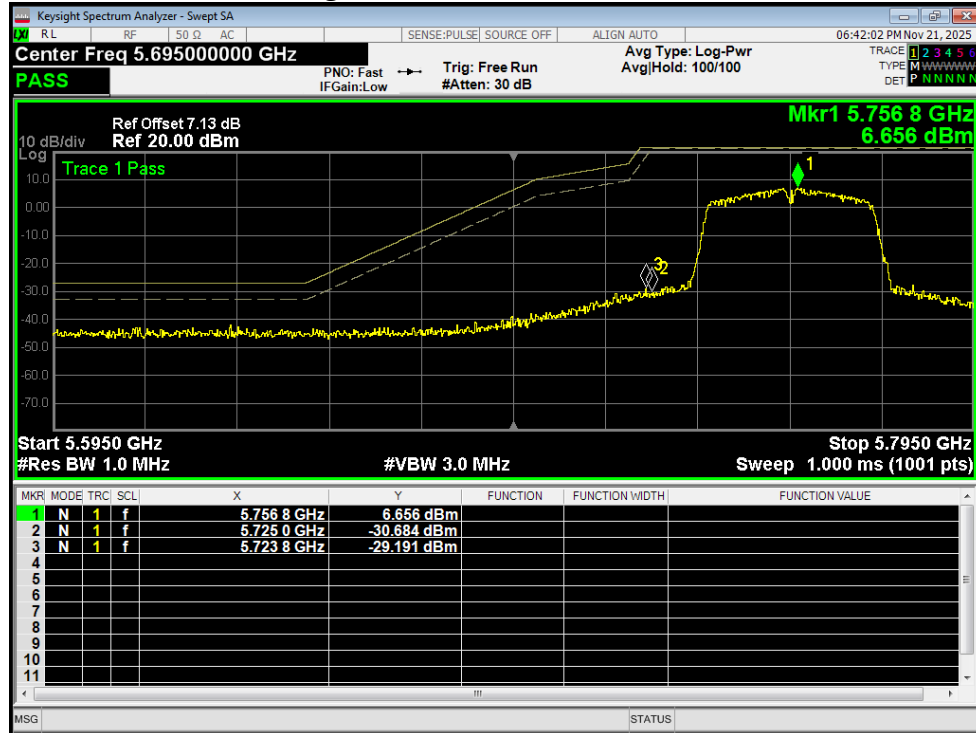
Band Edge NVNT n20 5745MHz Low Ant1



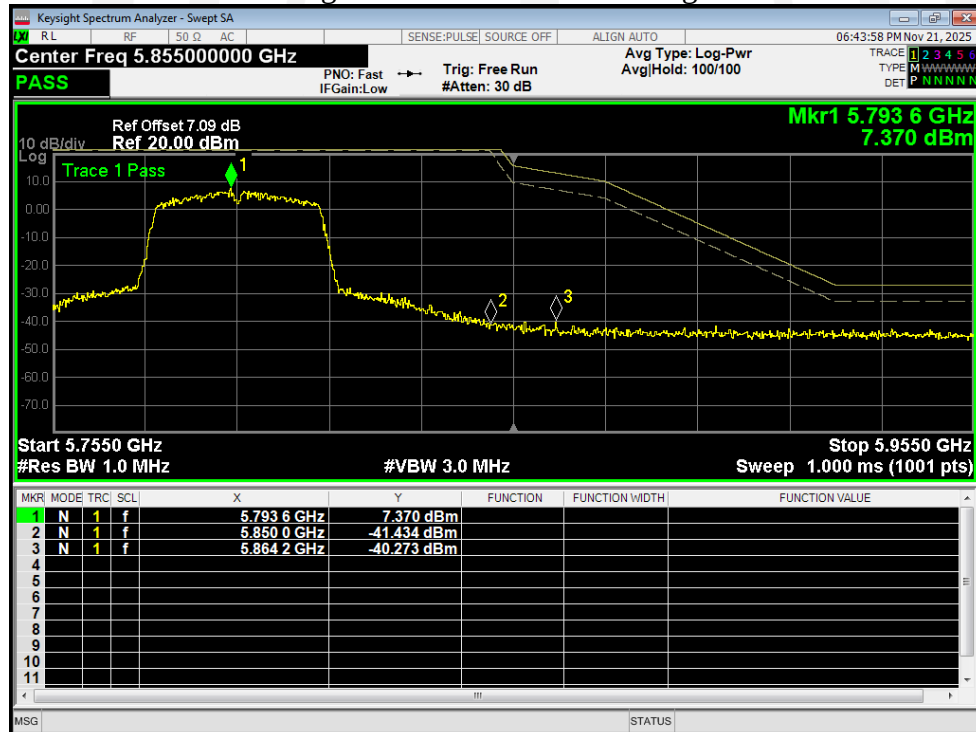
Band Edge NVNT n20 5825MHz High Ant1



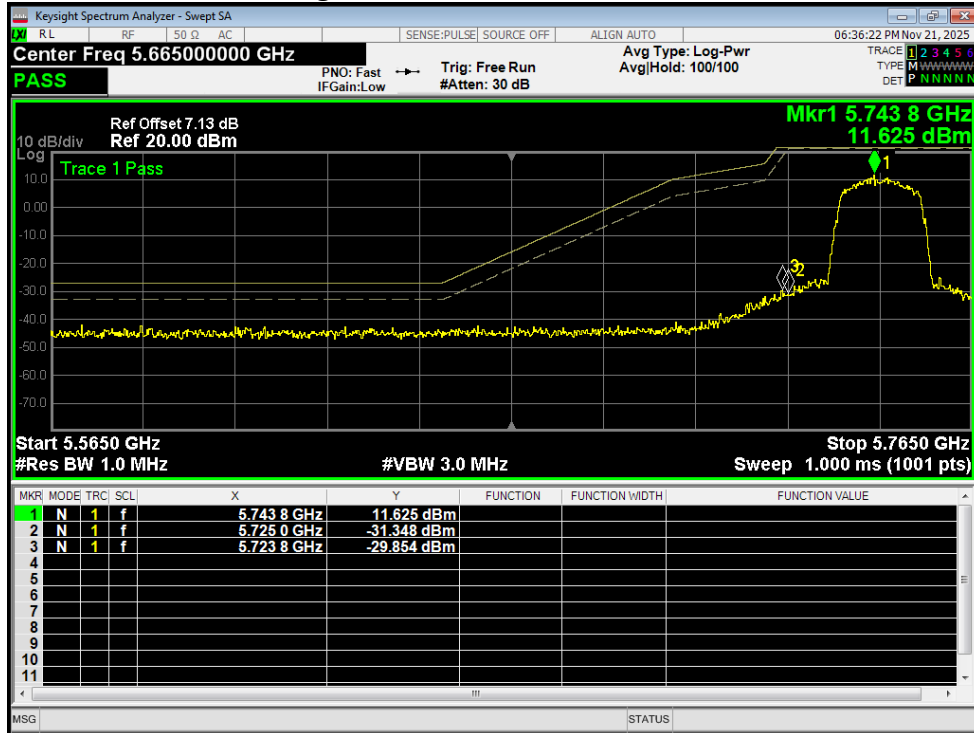
Band Edge NVNT n40 5755MHz Low Ant1



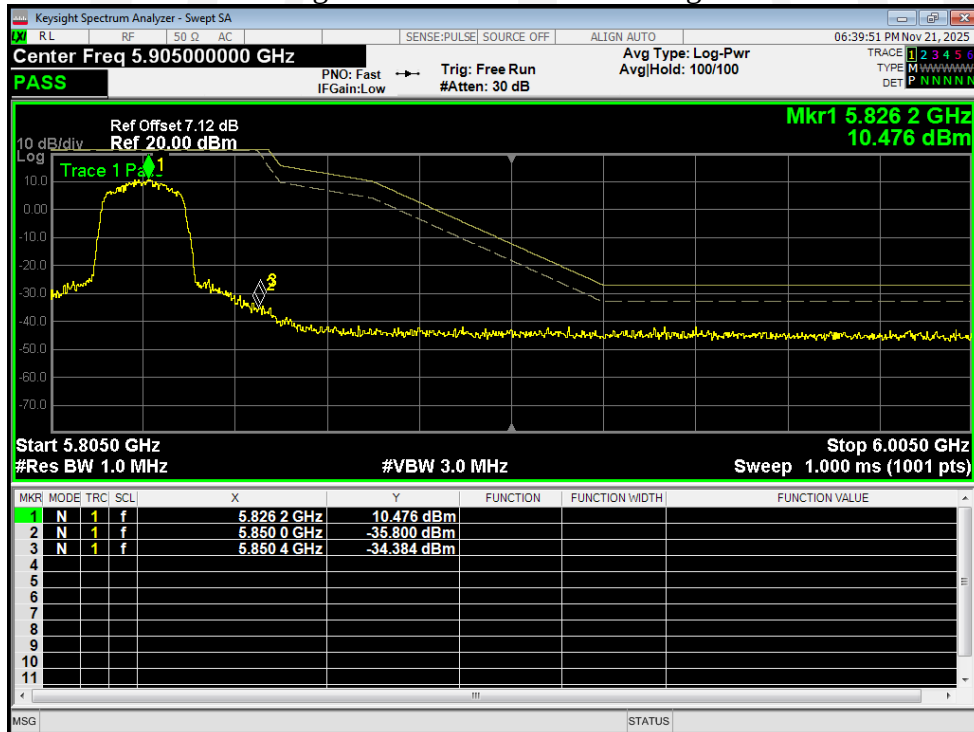
Band Edge NVNT n40 5795MHz High Ant1



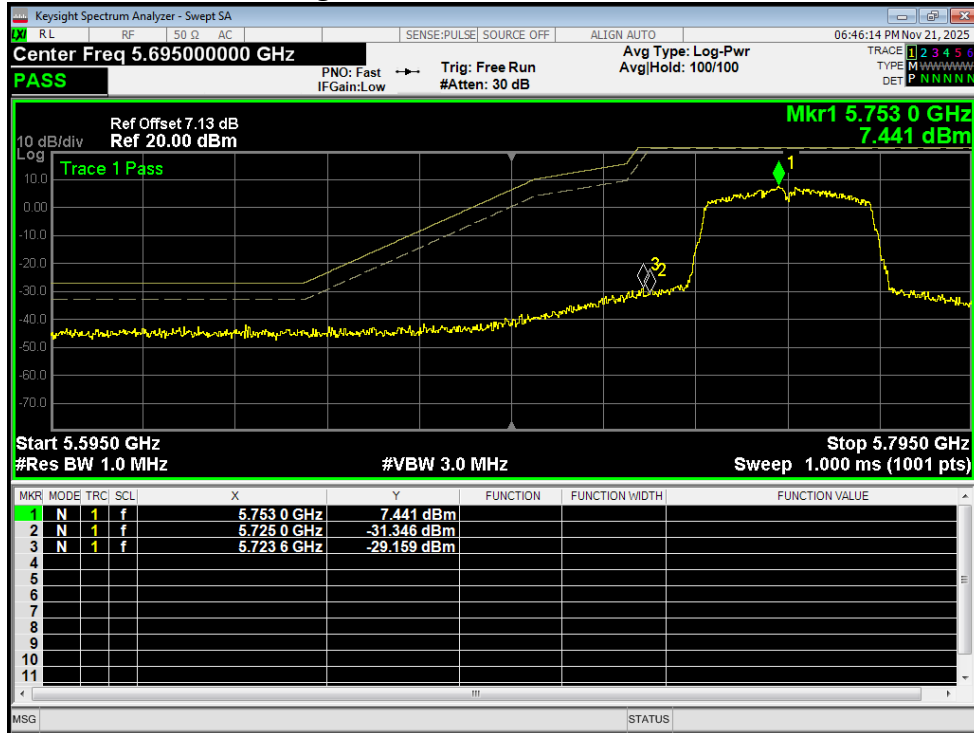
Band Edge NVNT ac20 5745MHz Low Ant1



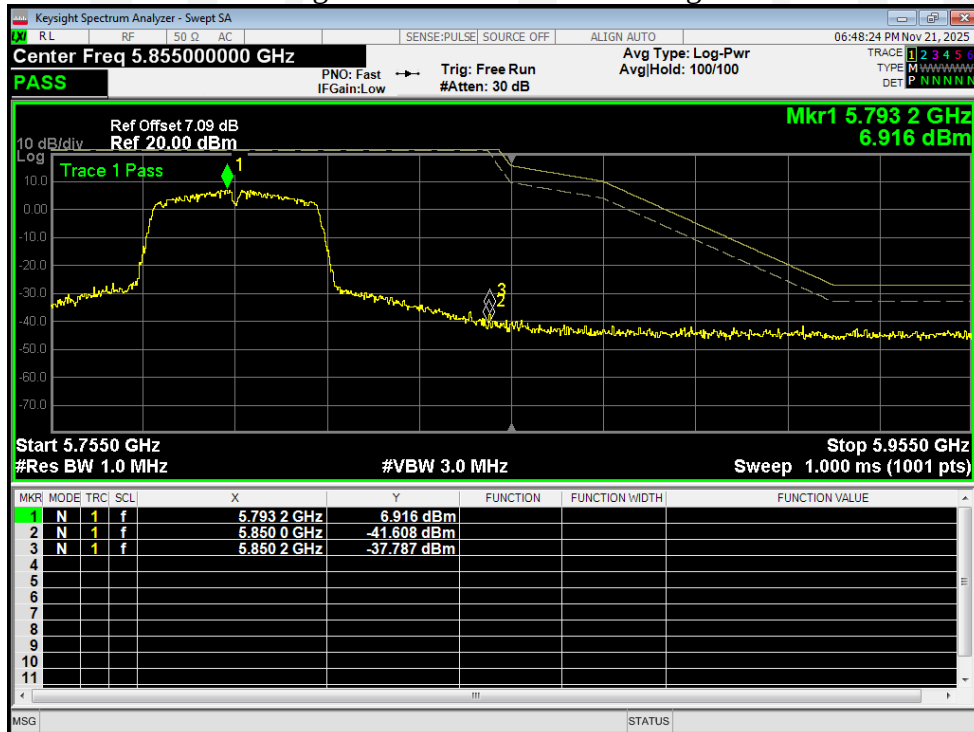
Band Edge NVNT ac20 5825MHz High Ant1



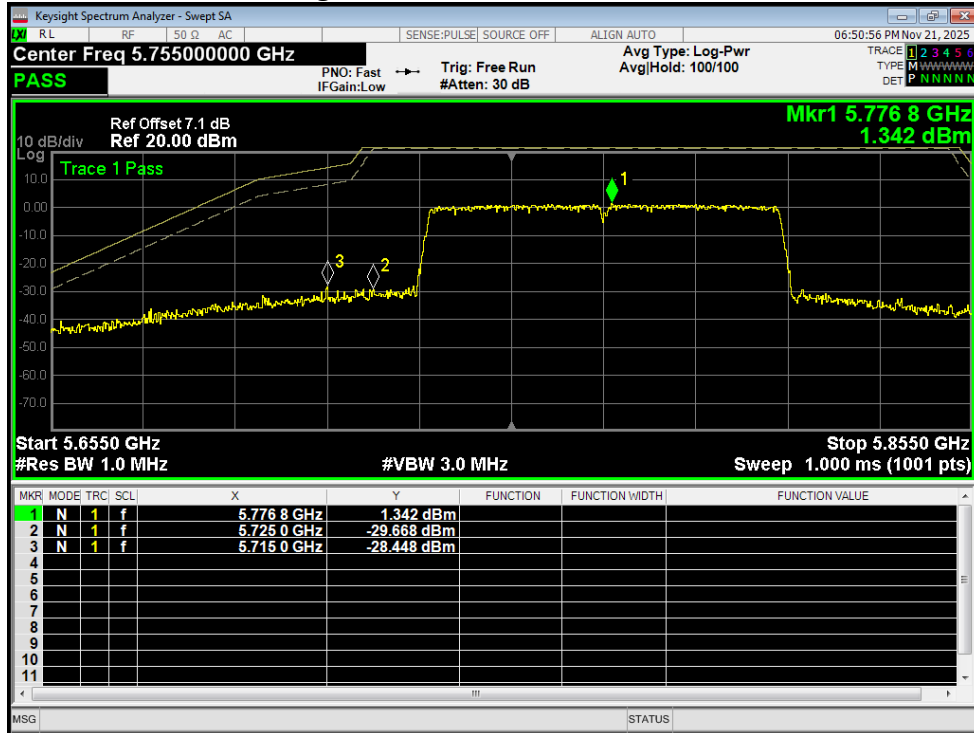
Band Edge NVNT ac40 5755MHz Low Ant1



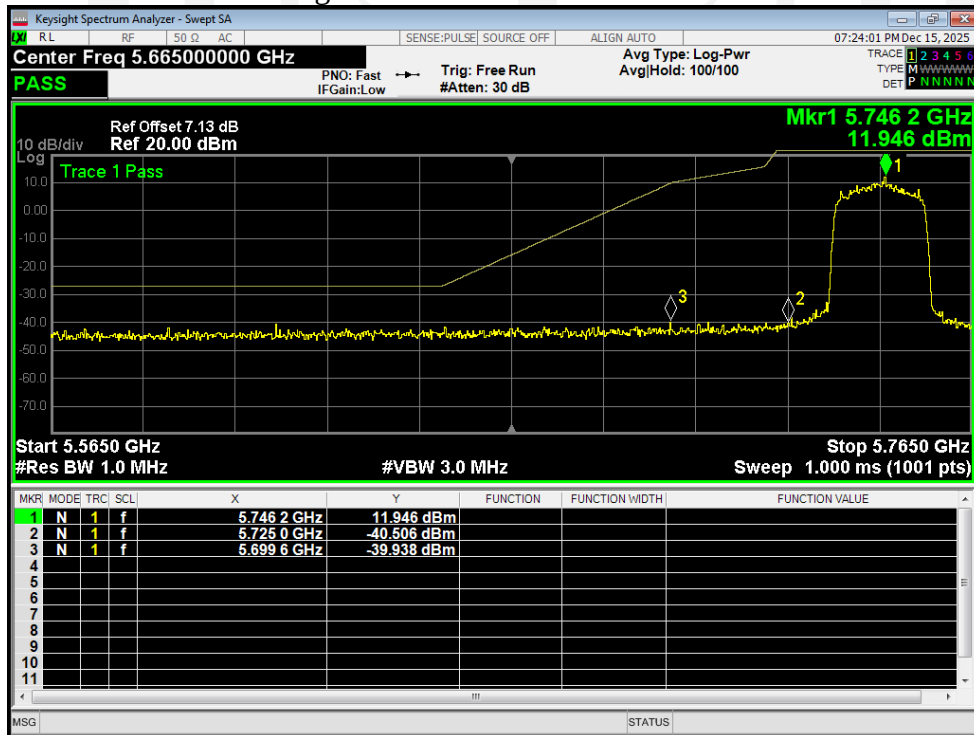
Band Edge NVNT ac40 5795MHz High Ant1



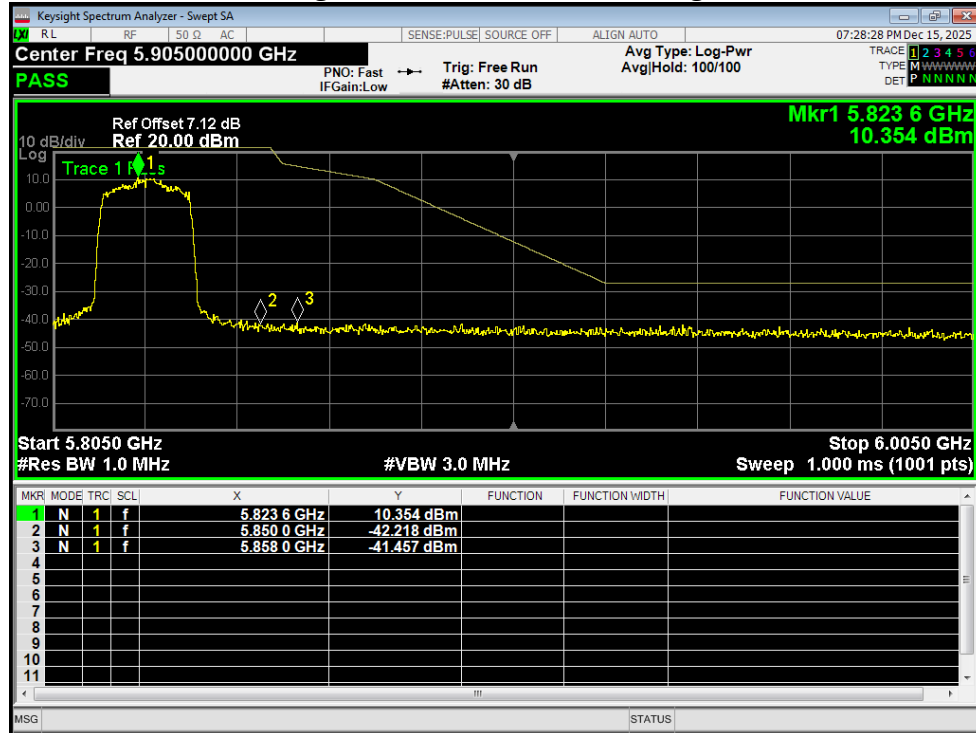
Band Edge NVNT ac80 5775MHz Low Ant1



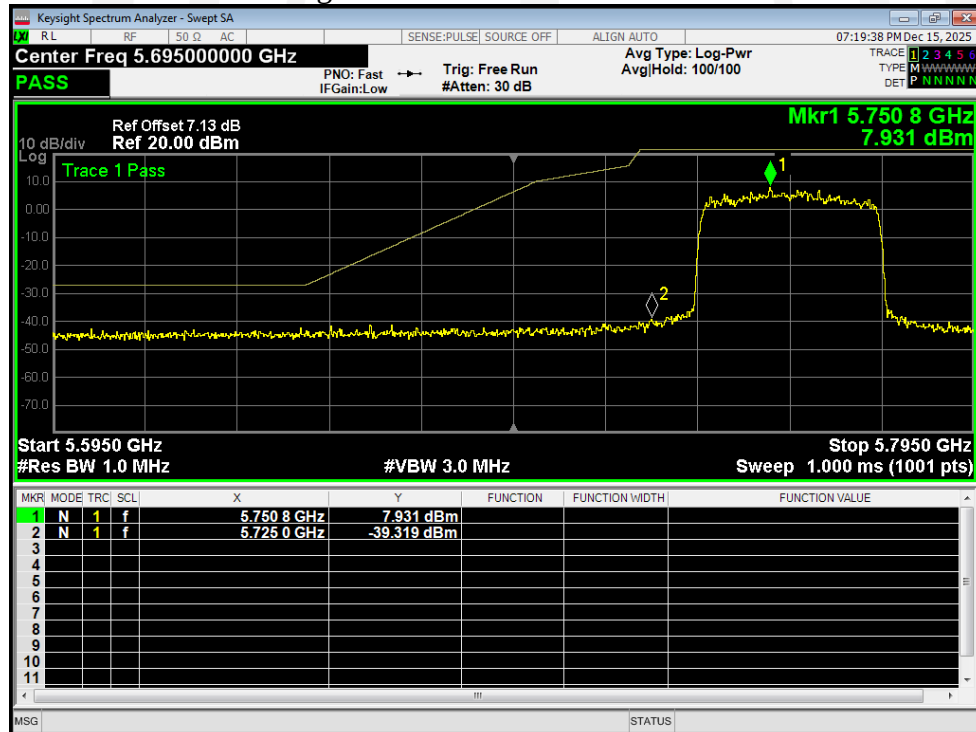
Band Edge NVNT ax20 5745MHz Low Ant1



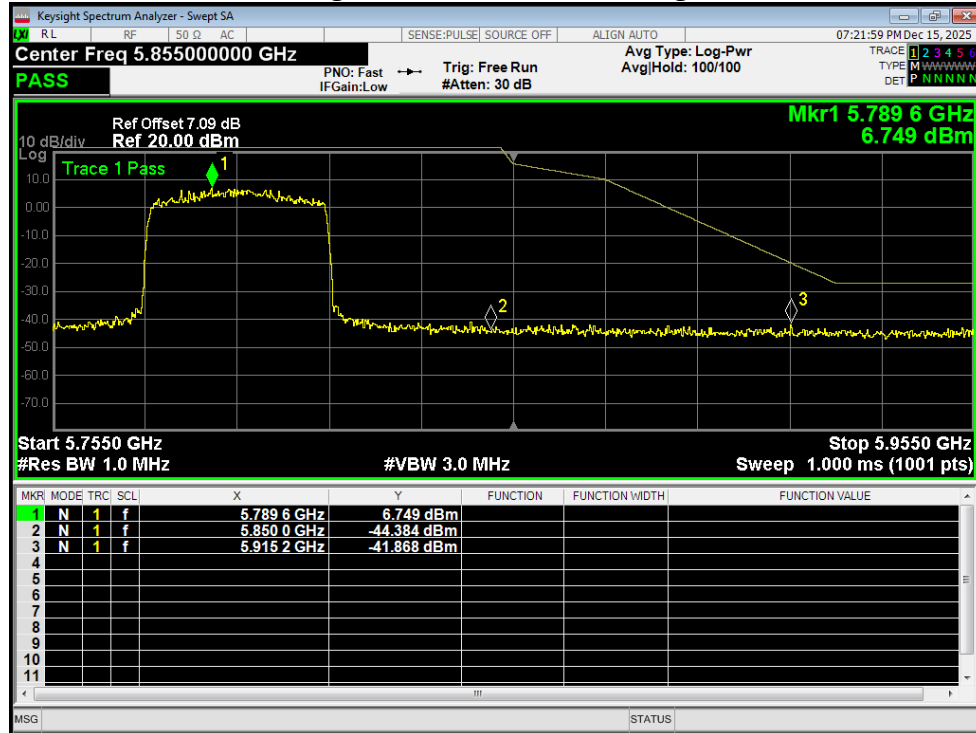
Band Edge NVNT ax20 5825MHz High Ant1



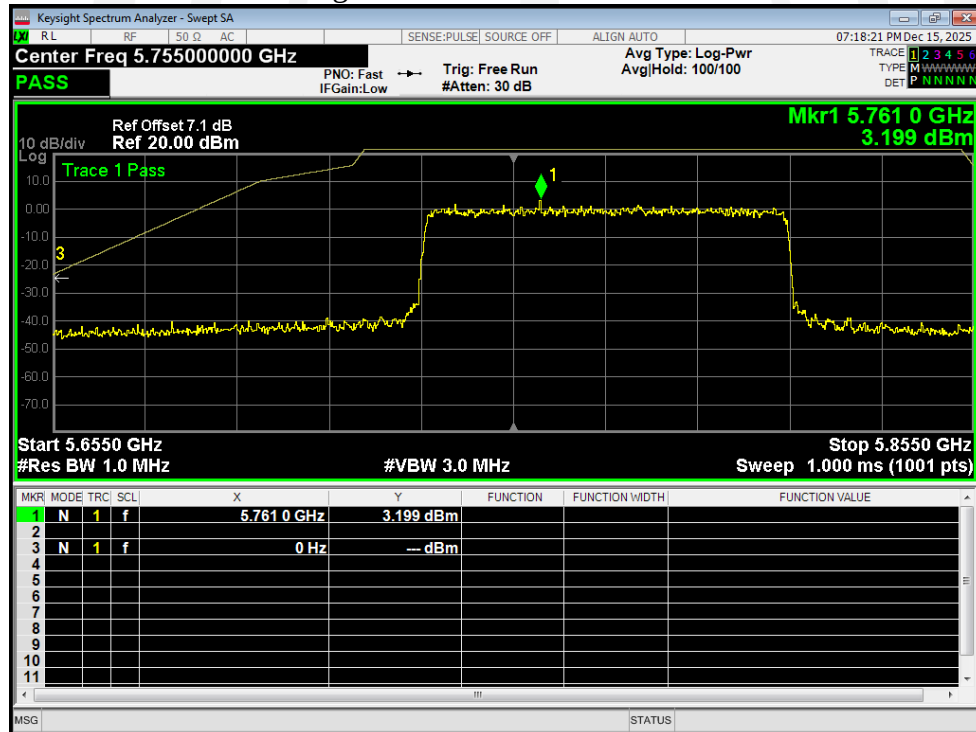
Band Edge NVNT ax40 5755MHz Low Ant1



Band Edge NVNT ax 5795MHz High Ant1

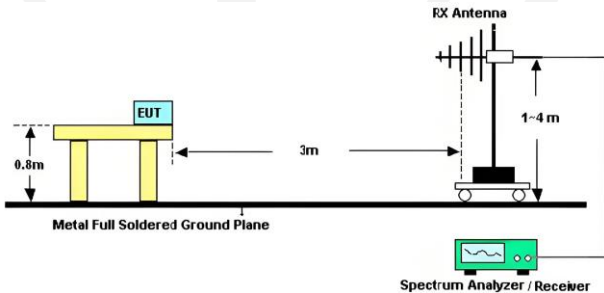
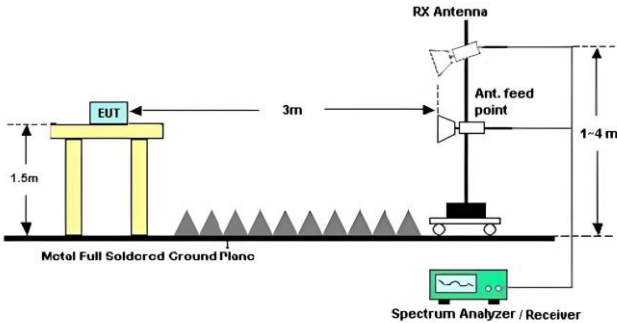


Band Edge NVNT ax 5775MHz Low Ant1



4.8 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		74.0		Peak Value
			54.0		Average Value
Test Procedure:	Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below: 1>.Below 1GHz test procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 2>.Above 1GHz test procedure: 1. On the test site as test setup graph above,the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver. 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the				

	transmitter under test. - The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. - Repeat step 4 for test frequency with the test antenna polarized horizontally. - Remove the transmitter and replace it with a substitution antenna - Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. - Repeat step 7 with both antennas horizontally polarized for each test frequency. - Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: $\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$ where: Pg is the generator output power into the substitution antenna.
Test setup:	Below 1GHz  Above 1GHz 
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data:

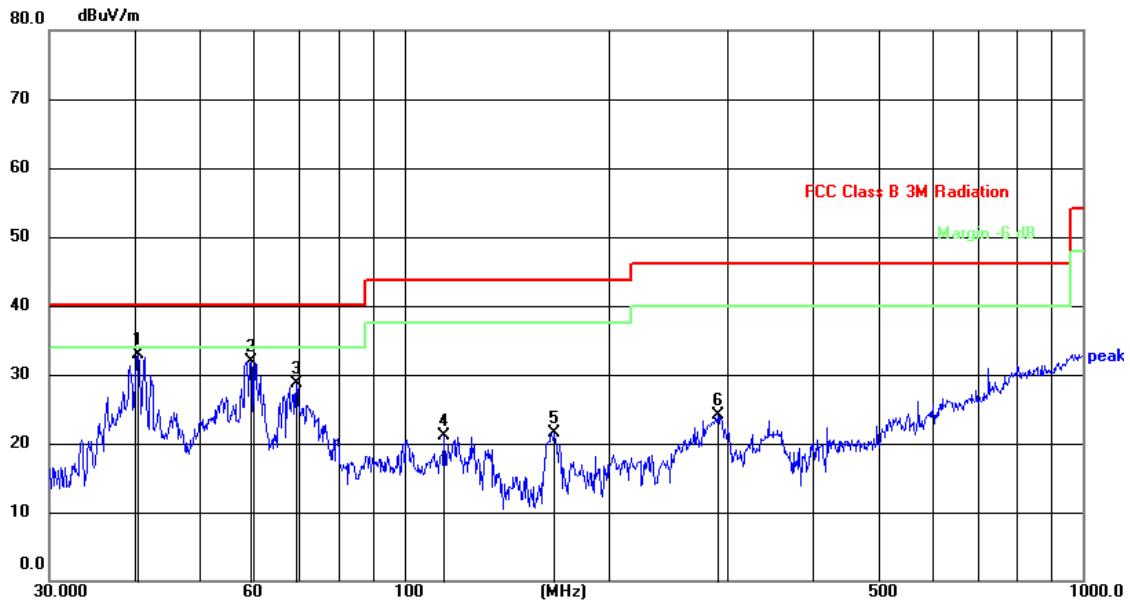
We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency.

Detailed information please see the following page.

From 9KHz to 30MHz:	
Test Date : 2025.12.03	Temperature : 23.3℃
Test Engineer : Felix Pang	Humidity : 37%
Test Mode : IEEE 802.11ac mode	
Test Results : PASS	
Note:	The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

From 30MHz to 1000MHz:	
Test Date : 2025.12.03	Temperature : 23.3℃
Test Engineer : Felix Pang	Humidity : 37%
Test Mode : IEEE 802.11ac mode	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. All modes and channels have been tested, and only worst data of IEEE 802.11ac(VHT40) 5190MHz was listed in this report.

From 1GHz to 40GHz:	
Test Date : 2025.12.03	Temperature : 23.3℃
Test Engineer : Felix Pang	Humidity : 37%
Test Mode : IEEE 802.11ac mode	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. All modes and channels have been tested, and only worst data of IEEE 802.11ac was listed in this report.

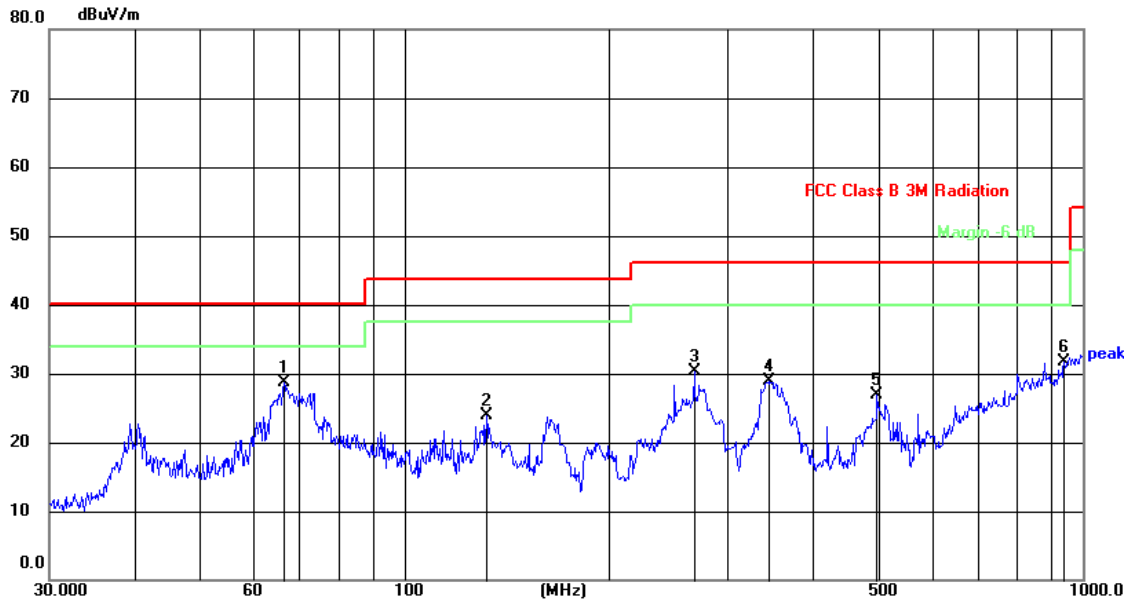
Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.5591	53.83	-20.96	32.87	40.00	-7.13	QP
2	59.4405	54.48	-22.51	31.97	40.00	-8.03	QP
3	69.3568	52.81	-24.05	28.76	40.00	-11.24	QP
4	114.5146	44.85	-23.68	21.17	43.50	-22.33	QP
5	166.0680	42.26	-20.80	21.46	43.50	-22.04	QP
6	290.0172	44.87	-20.80	24.07	46.00	-21.93	QP

Remark:

Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);

Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)

Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	66.4989	52.32	-23.60	28.72	40.00	-11.28	QP
2	132.2204	46.30	-22.34	23.96	43.50	-19.54	QP
3	267.5452	52.01	-21.80	30.21	46.00	-15.79	QP
4	345.5951	48.33	-19.40	28.93	46.00	-17.07	QP
5	497.6764	41.32	-14.32	27.00	46.00	-19.00	QP
6	938.8324	35.90	-4.18	31.72	46.00	-14.28	QP

Remark:

Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);

Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)

Above 1GHz:**U-NII-1:**

Test Mode: IEEE 802.11ac20							
Test channel: Low CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10360	66.73	-11.79	54.94	68.20	-13.26	V	Peak
15540	62.59	-7.28	55.31	68.20	-12.89	V	Peak
10360	65.60	-11.79	53.81	68.20	-14.39	H	Peak
15540	62.34	-7.28	55.06	68.20	-13.14	H	Peak
10360	52.58	-11.79	40.79	54.00	-13.21	V	AVG
15540	50.19	-7.28	42.91	54.00	-11.09	V	AVG
10360	53.68	-11.79	41.89	54.00	-12.11	H	AVG
15540	49.66	-7.28	42.38	54.00	-11.62	H	AVG
Test channel: Middle CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10400	66.82	-11.74	55.08	68.20	-13.12	V	Peak
15600	62.70	-7.18	55.52	68.20	-12.68	V	Peak
10400	67.57	-11.74	55.83	68.20	-12.37	H	Peak
15600	63.72	-7.18	56.54	68.20	-11.66	H	Peak
10400	52.53	-11.74	40.79	54.00	-13.21	V	AVG
15600	49.03	-7.18	41.85	54.00	-12.15	V	AVG
10400	53.32	-11.74	41.58	54.00	-12.42	H	AVG
15600	49.64	-7.18	42.46	54.00	-11.54	H	AVG
Test channel: High CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10480	66.71	-11.63	55.08	68.20	-13.12	V	Peak
15720	62.63	-6.97	55.66	68.20	-12.54	V	Peak
10480	67.96	-11.63	56.33	68.20	-11.87	H	Peak
15720	64.13	-6.97	57.16	68.20	-11.04	H	Peak
10480	53.20	-11.63	41.57	54.00	-12.43	V	AVG
15720	47.81	-6.97	40.84	54.00	-13.16	V	AVG
10480	53.20	-11.63	41.57	54.00	-12.43	H	AVG
15720	48.76	-6.97	41.79	54.00	-12.21	H	AVG

Test Mode: IEEE 802.11ac40							
Test channel: Low CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10380	67.78	-11.77	56.01	68.20	-12.19	V	Peak
15570	63.35	-7.24	56.11	68.20	-12.09	V	Peak
10380	66.50	-11.77	54.73	68.20	-13.47	H	Peak
15570	63.18	-7.24	55.94	68.20	-12.26	H	Peak
10380	51.66	-11.77	39.89	54.00	-14.11	V	AVG
15570	47.99	-7.24	40.75	54.00	-13.25	V	AVG
10380	52.12	-11.77	40.35	54.00	-13.65	H	AVG
15570	48.95	-7.24	41.71	54.00	-12.29	H	AVG
Test channel: High CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10460	67.16	-11.65	55.51	68.20	-12.69	V	Peak
15690	63.41	-7.03	56.38	68.20	-11.82	V	Peak
10460	66.59	-11.65	54.94	68.20	-13.26	H	Peak
15690	63.12	-7.03	56.09	68.20	-12.11	H	Peak
10460	51.64	-11.65	39.99	54.00	-14.01	V	AVG
15690	48.65	-7.03	41.62	54.00	-12.38	V	AVG
10460	52.24	-11.65	40.59	54.00	-13.41	H	AVG
15690	47.98	-7.03	40.95	54.00	-13.05	H	AVG

Test Mode: IEEE 802.11ac80							
Test channel: Low CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11060	65.60	-10.85	54.75	74.00	-19.25	V	Peak
16590	60.96	-5.67	55.29	68.20	-12.91	V	Peak
11060	64.23	-10.85	53.38	74.00	-20.62	H	Peak
16590	61.16	-5.67	55.49	68.20	-12.71	H	Peak
11060	51.16	-10.85	40.31	54.00	-13.69	V	AVG
16590	48.29	-5.67	42.62	54.00	-11.38	V	AVG
11060	52.36	-10.85	41.51	54.00	-12.49	H	AVG
16590	47.53	-5.67	41.86	54.00	-12.14	H	AVG

Note:

1. Level = Read Level + Factor. (Factor=Antenna Factor+ Cable loss- Preamp Factor)
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points not shown in the above form (1GHz to 40GHz) should be at least 20dB below the limit, and the frequency emission mainly comes from environmental noise.

U-NII-3:

Test Mode: IEEE 802.11ac20							
Test channel: Low CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11490.00	65.85	-10.56	55.29	74.00	-18.71	V	Peak
17235.00	61.58	-5.21	56.37	68.20	-11.83	V	Peak
11490.00	65.55	-10.56	54.99	74.00	-19.01	H	Peak
17235.00	61.92	-5.21	56.71	68.20	-11.49	H	Peak
11490.00	51.41	-10.56	40.85	54.00	-13.15	V	AVG
17235.00	46.63	-5.21	41.42	54.00	-12.58	V	AVG
11490.00	50.30	-10.56	39.74	54.00	-14.26	H	AVG
17235.00	46.07	-5.21	40.86	54.00	-13.14	H	AVG
Test channel: Middle CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11570.00	64.89	-10.50	54.39	74.00	-19.61	V	Peak
17355.00	59.94	-5.28	54.66	68.20	-13.54	V	Peak
11570.00	64.19	-10.50	53.69	74.00	-20.31	H	Peak
17355.00	58.38	-5.28	53.1	68.20	-15.10	H	Peak
11570.00	51.39	-10.50	40.89	54.00	-13.11	V	AVG
17355.00	46.85	-5.28	41.57	54.00	-12.43	V	AVG
11570.00	52.32	-10.50	41.82	54.00	-12.18	H	AVG
17355.00	48.05	-5.28	42.77	54.00	-11.23	H	AVG
Test channel: High CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11650.00	65.72	-10.44	55.28	74.00	-18.72	V	Peak
17475.00	61.03	-5.34	55.69	68.20	-12.51	V	Peak
11650.00	66.28	-10.44	55.84	74.00	-18.16	H	Peak
17475.00	62.20	-5.34	56.86	68.20	-11.34	H	Peak
11650.00	51.41	-10.44	40.97	54.00	-13.03	V	AVG
17475.00	46.26	-5.34	40.92	54.00	-13.08	V	AVG
11650.00	52.09	-10.44	41.65	54.00	-12.35	H	AVG
17475.00	47.87	-5.34	42.53	54.00	-11.47	H	AVG

Test Mode: IEEE 802.11ac40							
Test channel: Low CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11510.00	66.70	-10.54	56.16	74.00	-17.84	V	Peak
17265.00	62.75	-5.24	57.51	68.20	-10.69	V	Peak
11510.00	66.33	-10.54	55.79	74.00	-18.21	H	Peak
17265.00	61.15	-5.24	55.91	68.20	-12.29	H	Peak
11510.00	51.02	-10.54	40.48	54.00	-13.52	V	AVG
17265.00	46.53	-5.24	41.29	54.00	-12.71	V	AVG
11510.00	52.33	-10.54	41.79	54.00	-12.21	H	AVG
17265.00	47.70	-5.24	42.46	54.00	-11.54	H	AVG
Test channel: High CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11550.00	66.08	-10.51	55.57	74.00	-18.43	V	Peak
17325.00	61.28	-5.26	56.02	68.20	-12.18	V	Peak
11550.00	65.58	-10.51	55.07	74.00	-18.93	H	Peak
17325.00	61.38	-5.26	56.12	68.20	-12.08	H	Peak
11550.00	53.42	-10.51	42.91	54.00	-11.09	V	AVG
17325.00	46.81	-5.26	41.55	54.00	-12.45	V	AVG
11550.00	52.49	-10.51	41.98	54.00	-12.02	H	AVG
17325.00	47.98	-5.26	42.72	54.00	-11.28	H	AVG

Test Mode: IEEE 802.11ac80							
Test channel: Low CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11060.00	65.04	-10.85	54.19	74.00	-19.81	V	Peak
16590.00	60.66	-5.67	54.99	68.20	-13.21	V	Peak
11060.00	66.01	-10.85	55.16	74.00	-18.84	H	Peak
16590.00	61.13	-5.67	55.46	68.20	-12.74	H	Peak
11060.00	52.71	-10.85	41.86	54.00	-12.14	V	AVG
16590.00	47.09	-5.67	41.42	54.00	-12.58	V	AVG
11060.00	54.22	-10.85	43.37	54.00	-10.63	H	AVG
16590.00	47.93	-5.67	42.26	54.00	-11.74	H	AVG

Note:

1. Level = Read Level + Factor. (Factor=Antenna Factor+ Cable loss- Preamp Factor)
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points not shown in the above form (1GHz to 40GHz) should be at least 20dB below the limit, and the frequency emission mainly comes from environmental noise.

4.9 Frequency stability

Test Standard	15.407(g)
Test limit	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Test results:	Pass

Measurement Data:

Mode	Voltage (V)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
Band 1 (5150-5250 MHz)	DC 3.27V	5179.998	2	5239.994	6
	DC 3.85V	5179.995	5	5239.994	6
	DC 4.43V	5179.998	2	5239.993	7
Mode	Voltage (V)	FHL (5260MHz)	Deviation (KHz)	FHH (5320MHz)	Deviation (KHz)
Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
Band 4 (5725-5850 MHz)	DC 3.27V	5744.993	7	5824.994	6
	DC 3.85V	5744.993	7	5824.993	7
	DC 4.43V	5744.994	6	5824.993	7

Mode	Temperature (°C)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
Band 1 (5150-5250 MHz)	-10°C	5179.997	3	5239.996	4
	0°C	5179.993	7	5239.995	5
	+10°C	5179.992	8	5239.993	7
	+20°C	5179.991	9	5239.996	4
	+30°C	5179.992	8	5239.996	4
	+40°C	5179.995	5	5239.993	7
	+50°C	5179.994	6	5239.992	8
Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
Band 4 (5725-5850 MHz)	-10°C	5744.994	6	5824.997	3
	0°C	5744.995	5	5824.997	3
	+10°C	5744.994	6	5824.996	4
	+20°C	5744.991	9	5824.993	7
	+30°C	5744.996	4	5824.992	8
	+40°C	5744.994	6	5824.994	6
	+50°C	5744.997	3	5824.993	7

5 Photos Of Test Setup

Reference to the **appendix I Test Setup Photo** for details.

6 Photos Of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

-----END OF REPORT-----

