

TEST REPORT

FCC ID :	2AHZ5T30	
Test Report No :	TCT220422E049	
Date of issue :	May 17, 2022	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name :	Shenzhen Huafurui Technology Co., Ltd	
Address :	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street, Xili, Nan shan district, Shenzhen, China	
Manufacturer's name ... :	Shenzhen Huafurui Technology Co., Ltd	
Address :	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street, Xili, Nan shan district, Shenzhen, China	
Standard(s)	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	
Product Name :	Tablet	
Trade Mark	CUBOT	
Model/Type reference :	TAB 30	
Rating(s) :	Adapter Information: Model: HJ-FC001K7-US Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 5.0V, 2.0A; DC 9.0V, 2.0A; DC 12.0V, 1.5A 18.0W Rechargeable Li-ion Battery DC 3.8V	
Date of receipt of test item	Apr. 22, 2022	
Date (s) of performance of test :	Apr. 22, 2022 - May 17, 2022	
Tested by (+signature) ... :	Brews XU	
Check by (+signature) :	Beryl ZHAO	
Approved by (+signature) :	Tomsin	



General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

TABLE OF CONTENTS

1. General Product Information	3
1.1. EUT description	3
1.2. Model(s) list.....	3
1.3. Test Frequency	4
2. Test Result Summary	5
3. General Information.....	6
3.1. Test environment and mode.....	6
3.2. Description of Support Units	7
4. Facilities and Accreditations	8
4.1. Facilities	8
4.2. Location	8
4.3. Measurement Uncertainty.....	8
5. Test Results and Measurement Data	9
5.1. Antenna requirement	9
5.2. Conducted Emission.....	10
5.3. Maximum Conducted Output Power	14
5.4. 6dB Emission Bandwidth.....	16
5.5. 26dB Bandwidth and 99% Occupied Bandwidth	17
5.6. Power Spectral Density.....	18
5.7. Band edge	19
5.8. Unwanted Emissions	33
5.9. Frequency Stability Measurement	49
Appendix A: Test Result of Conducted Test	
Appendix B: Photographs of Test Setup	
Appendix C: Photographs of EUT	

1. General Product Information

1.1. EUT description

Product Name:	Tablet
Model/Type reference:	TAB 30
Sample Number:	TCT220422E002-0101
Operation Frequency	Band 1: 5180 MHz ~ 5240 MHz Band 2A: 5260 MHz ~ 5320 MHz Band 3: 5745 MHz ~ 5825 MHz
Channel Bandwidth:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80MHz
Modulation Technology	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type:	PIFA Antenna
Antenna Gain:	1dBi
Rating(s):	Adapter Information: Model: HJ-FC001K7-US Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 5.0V, 2.0A; DC 9.0V, 2.0A; DC 12.0V, 1.5A 18.0W Rechargeable Li-ion Battery DC 3.8V

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

None.

1.3. Test Frequency

Band 1

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	42	5210
40	5200	46	5230		
48	5240				

Band 2A

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260	54	5270	58	5290
60	5300	62	5310		
64	5320				

Band 3

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745	151	5755	155	5775
157	5785	159	5795		
165	5825				

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:

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth & 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(b)	PASS
Radiated Emission	§15.407(b)	PASS
Frequency Stability	§15.407(g)	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.
5. For the band 5.15-5.25GHz, EUT meet the requirements of 15.407(a)(ii).

3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Software:	
Software Information:	Engineer Mode
Power Level:	Defaulted
Test Mode:	
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with max. duty cycle.
<p>The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p>	

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
802.11a	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps
802.11ac(VHT20)	6.5 Mbps
802.11ac(VHT40)	13.5 Mbps
802.11ac(VHT80)	29.3 Mbps

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, 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-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

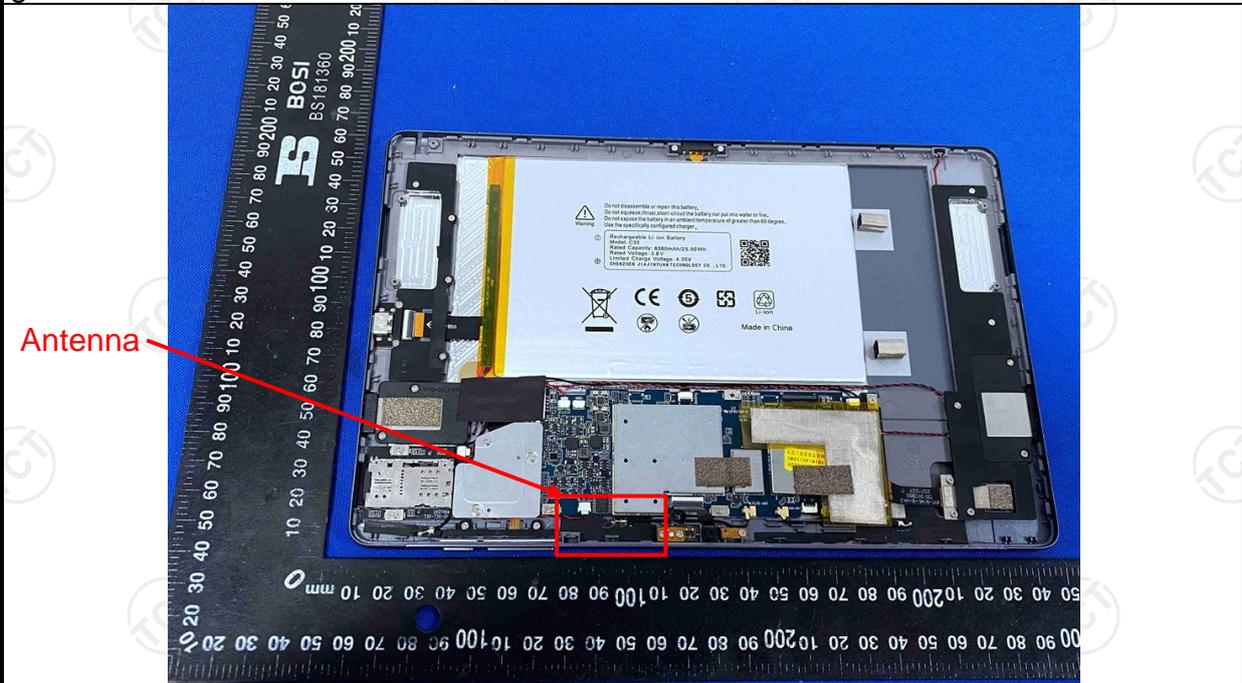
No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>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.</p>	

E.U.T Antenna:	
<p>The EUT antenna is PIFA antenna which permanently attached, and the best case gain of the antenna is 1dBi.</p>	



5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<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													
Test Setup:	<p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Charging + Transmitting Mode														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are 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: 2013 on conducted measurement. 														
Test Result:	PASS														

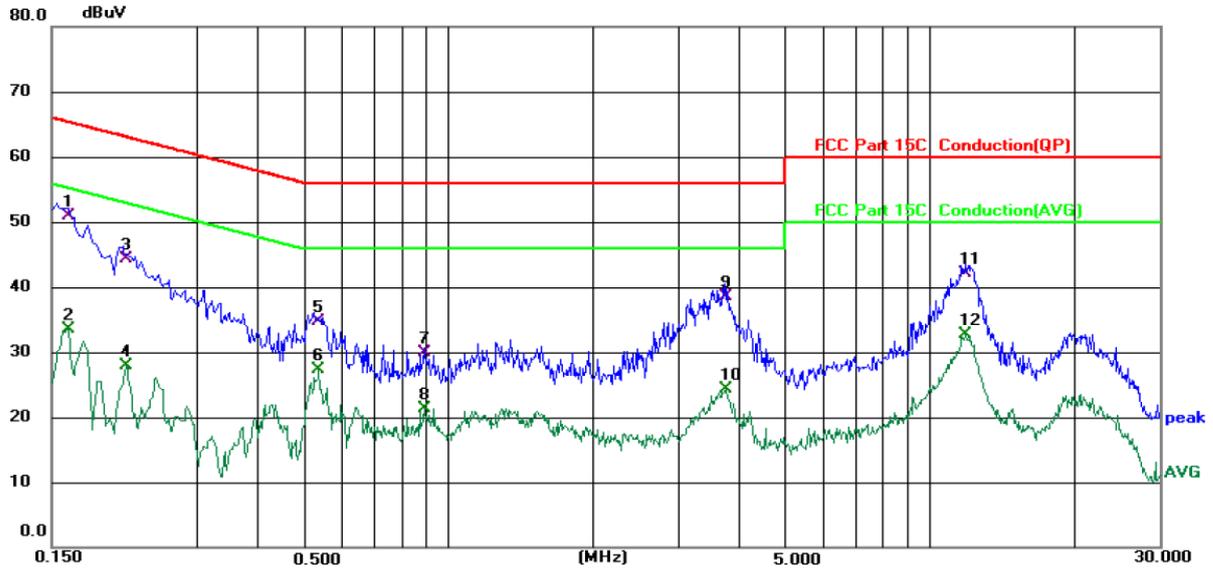
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023
Line-5	TCT	CE-05	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

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: 24.1 (°C)

Humidity: 47 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1620	41.28	9.61	50.89	65.36	-14.47	QP	
2		0.1620	23.89	9.61	33.50	55.36	-21.86	AVG	
3		0.2139	34.74	9.55	44.29	63.05	-18.76	QP	
4		0.2139	18.32	9.55	27.87	53.05	-25.18	AVG	
5		0.5380	24.98	9.71	34.69	56.00	-21.31	QP	
6		0.5380	17.66	9.71	27.37	46.00	-18.63	AVG	
7		0.8940	20.09	9.74	29.83	56.00	-26.17	QP	
8		0.8940	11.66	9.74	21.40	46.00	-24.60	AVG	
9		3.7780	28.60	9.89	38.49	56.00	-17.51	QP	
10		3.7780	14.41	9.89	24.30	46.00	-21.70	AVG	
11		11.8940	32.39	9.80	42.19	60.00	-17.81	QP	
12		11.8940	22.90	9.80	32.70	50.00	-17.30	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

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

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

Limit (dBuV) = Limit stated in standard

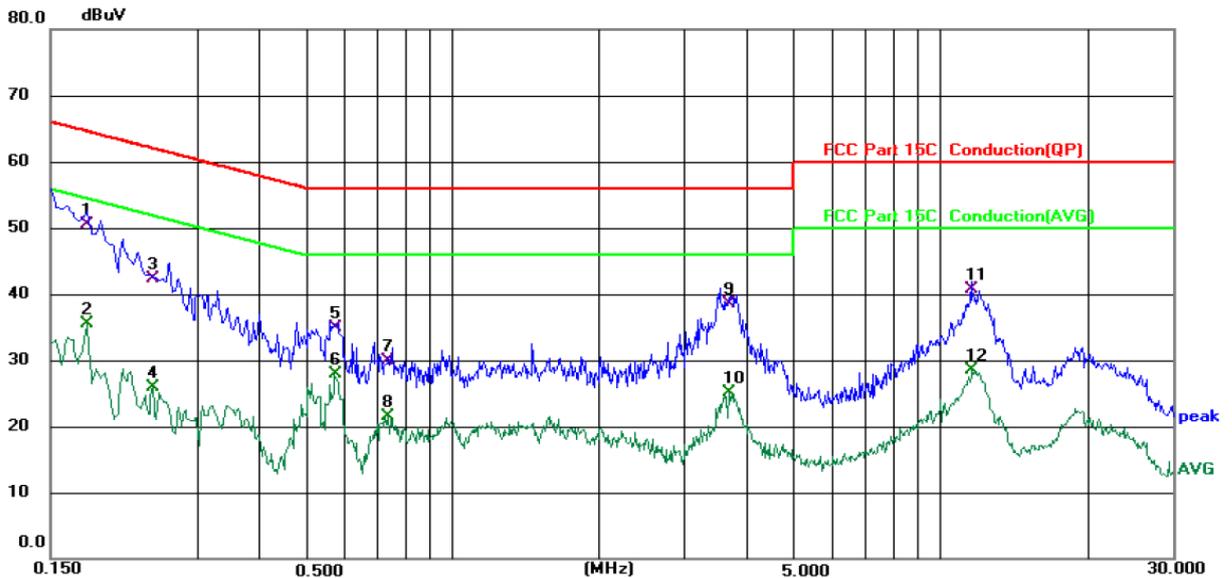
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

AVG =average

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

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



Site 844 Shielding Room Phase: *N* Temperature: 24.1 (°C) Humidity: 47 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1779	40.77	9.72	50.49	64.58	-14.09	QP	
2		0.1779	25.78	9.72	35.50	54.58	-19.08	AVG	
3		0.2419	32.75	9.56	42.31	62.03	-19.72	QP	
4		0.2419	16.29	9.56	25.85	52.03	-26.18	AVG	
5		0.5738	25.16	9.73	34.89	56.00	-21.11	QP	
6		0.5738	18.15	9.73	27.88	46.00	-18.12	AVG	
7		0.7419	20.07	9.74	29.81	56.00	-26.19	QP	
8		0.7419	11.85	9.74	21.59	46.00	-24.41	AVG	
9		3.7139	28.80	9.79	38.59	56.00	-17.41	QP	
10		3.7139	15.41	9.79	25.20	46.00	-20.80	AVG	
11		11.6300	30.97	9.71	40.68	60.00	-19.32	QP	
12		11.6300	18.81	9.71	28.52	50.00	-21.48	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

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

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

Limit (dBuV) = Limit stated in standard

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

Q.P. =Quasi-Peak

AVG =average

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

Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Lowest channel and 802.11a) was submitted only.

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Power Meter	Agilent	E4418B	GB43312526	Jul. 07, 2022
Power Sensor	Agilent	E9301A	MY41497725	Jul. 07, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 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) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

5.7. Band edge

5.7.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407																				
Test Method:	ANSI C63.10 2013																				
Limit:	In un-restricted band: For Band 1&2A&2C: -27dBm/MHz For Band 3:																				
	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Limit (dBm/MHz)</th> <th>Frequency (MHz)</th> <th>Limit (dBm/MHz)</th> </tr> </thead> <tbody> <tr> <td>< 5650</td> <td>-27</td> <td>5850~5855</td> <td>27~15.6</td> </tr> <tr> <td>5650~5700</td> <td>-27~10</td> <td>5855~5875</td> <td>15.6~10</td> </tr> <tr> <td>5700~5720</td> <td>10~15.6</td> <td>5875~5925</td> <td>10~-27</td> </tr> <tr> <td>5720~5725</td> <td>15.6~27</td> <td>> 5925</td> <td>-27</td> </tr> </tbody> </table>	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)	< 5650	-27	5850~5855	27~15.6	5650~5700	-27~10	5855~5875	15.6~10	5700~5720	10~15.6	5875~5925	10~-27	5720~5725	15.6~27	> 5925	-27
	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)																	
	< 5650	-27	5850~5855	27~15.6																	
	5650~5700	-27~10	5855~5875	15.6~10																	
5700~5720	10~15.6	5875~5925	10~-27																		
5720~5725	15.6~27	> 5925	-27																		
$E[dB\mu V/m] = EIRP[dBm] + 95.2 @3m$																					
In restricted band:																					
<table border="1"> <thead> <tr> <th>Detector</th> <th>Limit@3m</th> </tr> </thead> <tbody> <tr> <td>Peak</td> <td>74dBμV/m</td> </tr> <tr> <td>AVG</td> <td>54dBμV/m</td> </tr> </tbody> </table>	Detector	Limit@3m	Peak	74dB μ V/m	AVG	54dB μ V/m															
Detector	Limit@3m																				
Peak	74dB μ V/m																				
AVG	54dB μ V/m																				
Test Setup:	<p>The diagram illustrates the test setup. On the left, a rotating table (0.8m high) holds the Equipment Under Test (EUT). The table is rotated 360 degrees. A 3m distance separates the EUT from a variable-height antenna tower. The antenna is mounted on the tower and can be adjusted from 1m to 4m above the ground. A ground reference plane is shown. The test receiver system, including a Test Receiver, Pre-amplifier, and Controller, is connected to the antenna.</p>																				
Test Mode:	Transmitting mode with modulation																				
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters 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 rota 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 																				

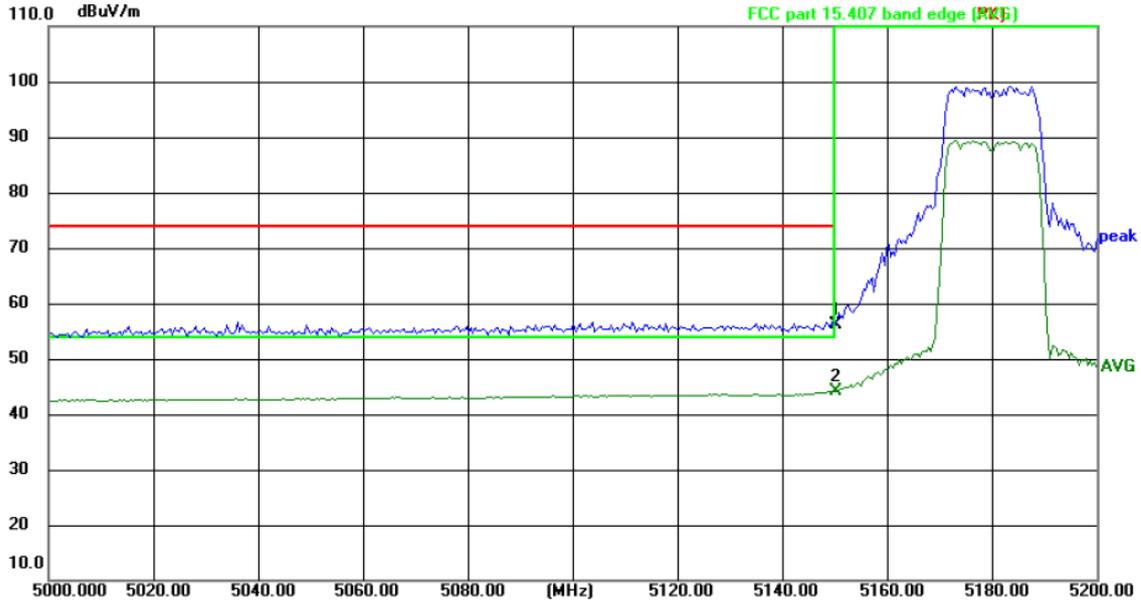
	<p>Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.</p>
Test Result:	PASS



5.7.2. Test Instruments

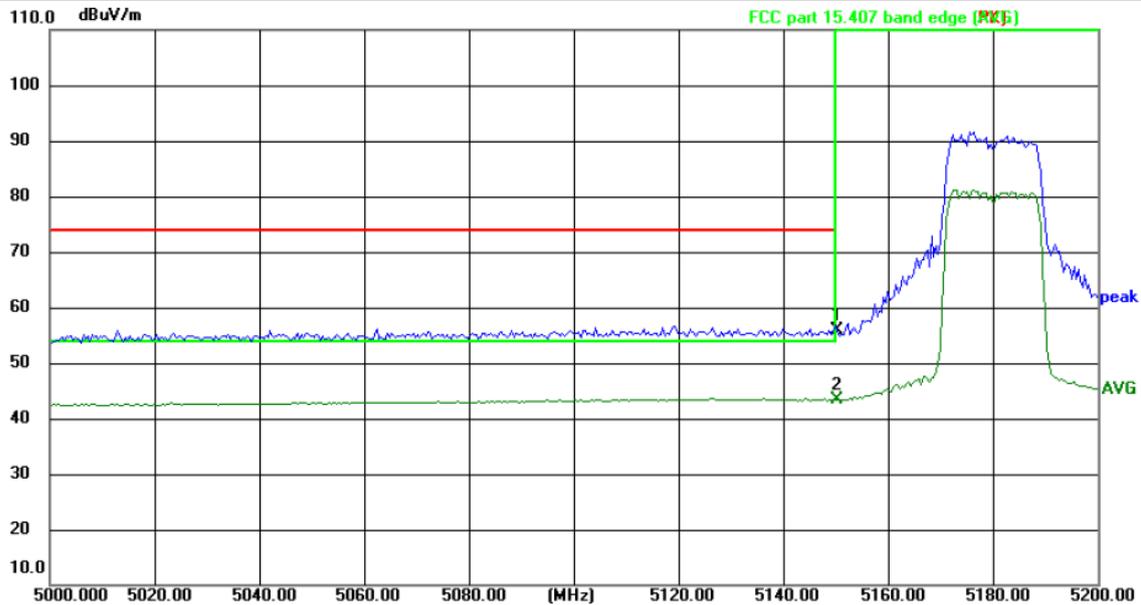
Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Feb. 24, 2023
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Feb. 24, 2023
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Coaxial cable	SKET	RC_DC18G-N	N/A	Feb. 24, 2023
Coaxial cable	SKET	RC-DC18G-N	N/A	Feb. 24, 2023
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

5.7.3. Test Data
AC20-5180



Site: Polarization: **Horizontal** Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

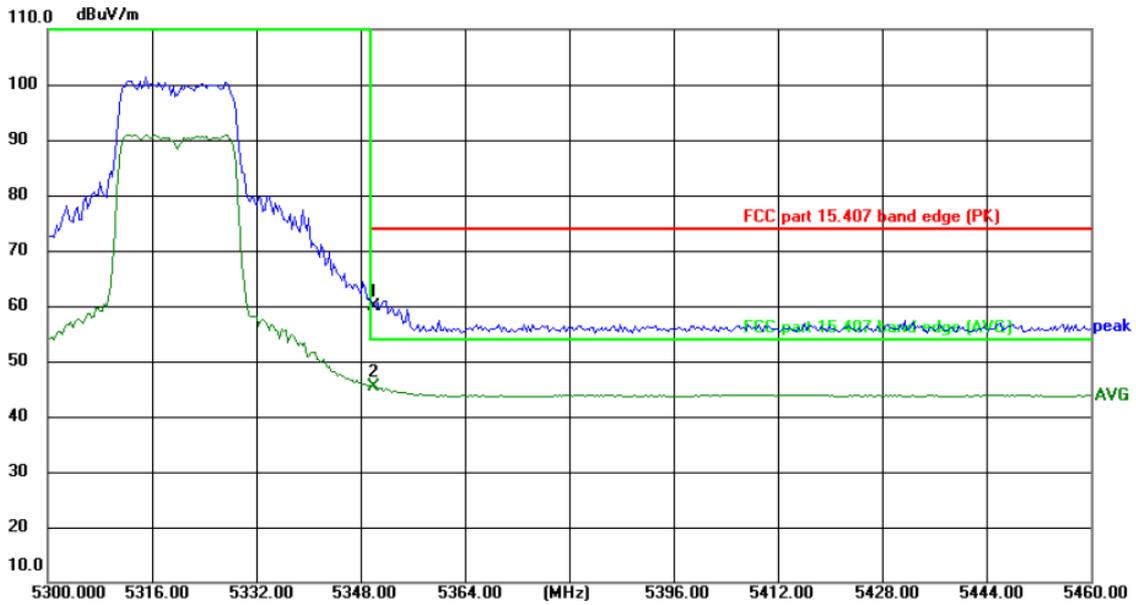
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	64.72	-8.48	56.24	74.00	-17.76	peak	P	
2 *	5150.000	52.71	-8.48	44.23	54.00	-9.77	AVG	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

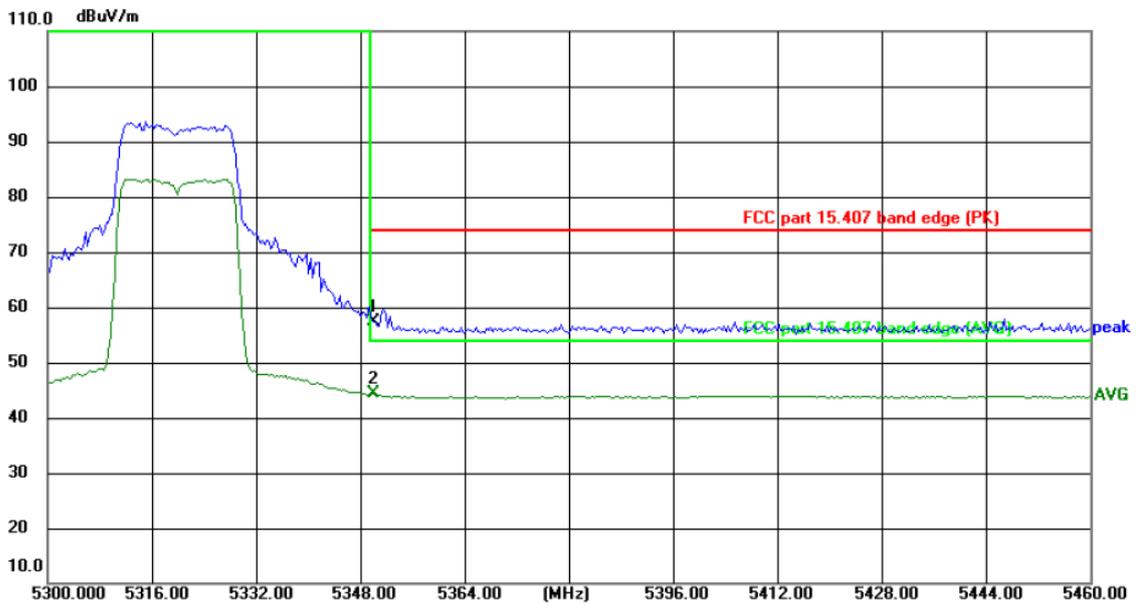
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	64.36	-8.48	55.88	74.00	-18.12	peak	P	
2 *	5150.000	51.79	-8.48	43.31	54.00	-10.69	AVG	P	

AC20-5320



Site: Polarization: **Horizontal** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

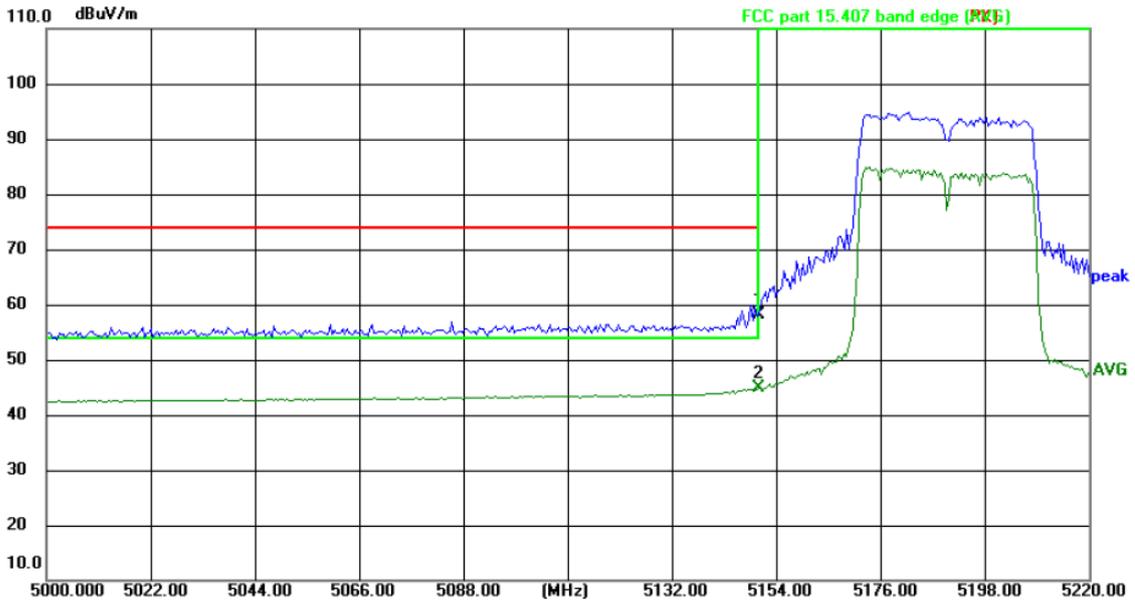
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	68.31	-8.40	59.91	74.00	-14.09	peak	P	
2 *	5350.000	53.71	-8.40	45.31	54.00	-8.69	AVG	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

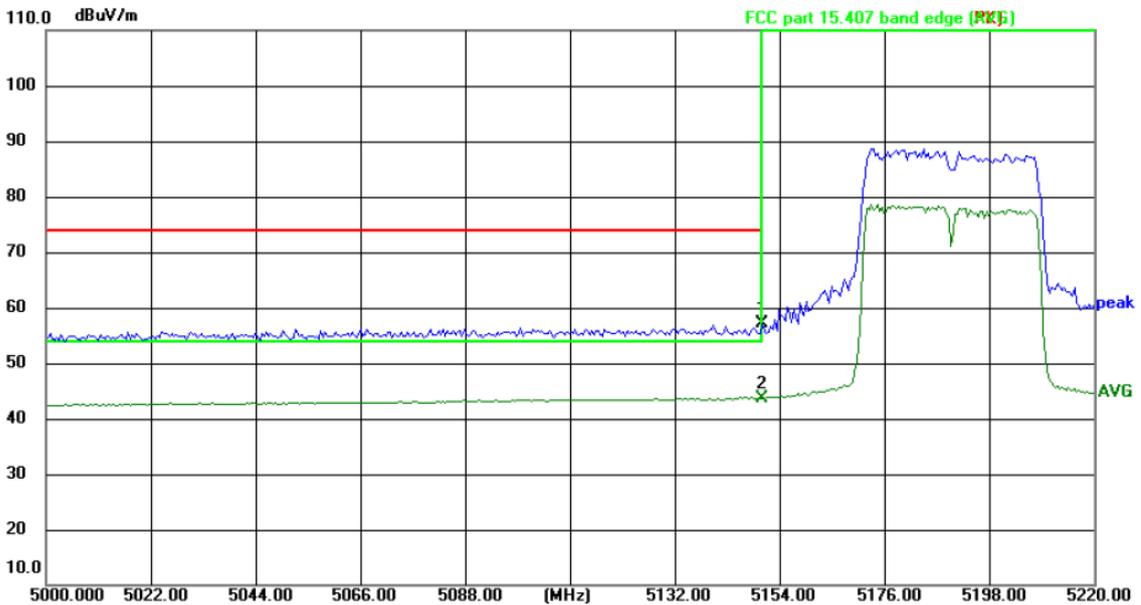
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	65.88	-8.40	57.48	74.00	-16.52	peak	P	
2 *	5350.000	52.76	-8.40	44.36	54.00	-9.64	AVG	P	

AC40-5190



Site: Polarization: **Horizontal** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

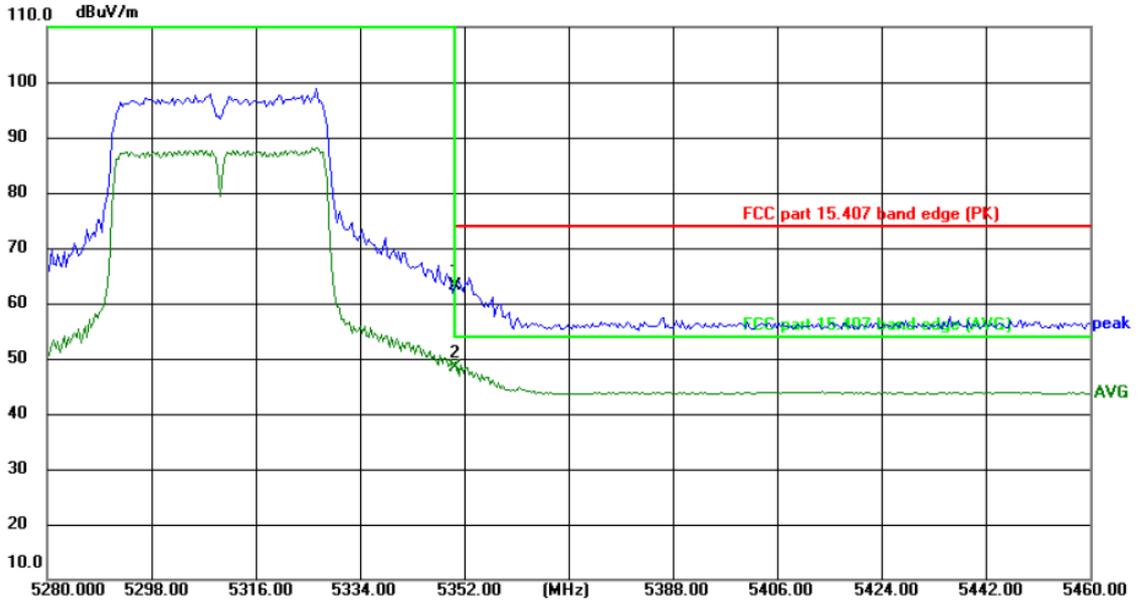
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	66.58	-8.48	58.10	74.00	-15.90	peak	P	
2 *	5150.000	53.33	-8.48	44.85	54.00	-9.15	AVG	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

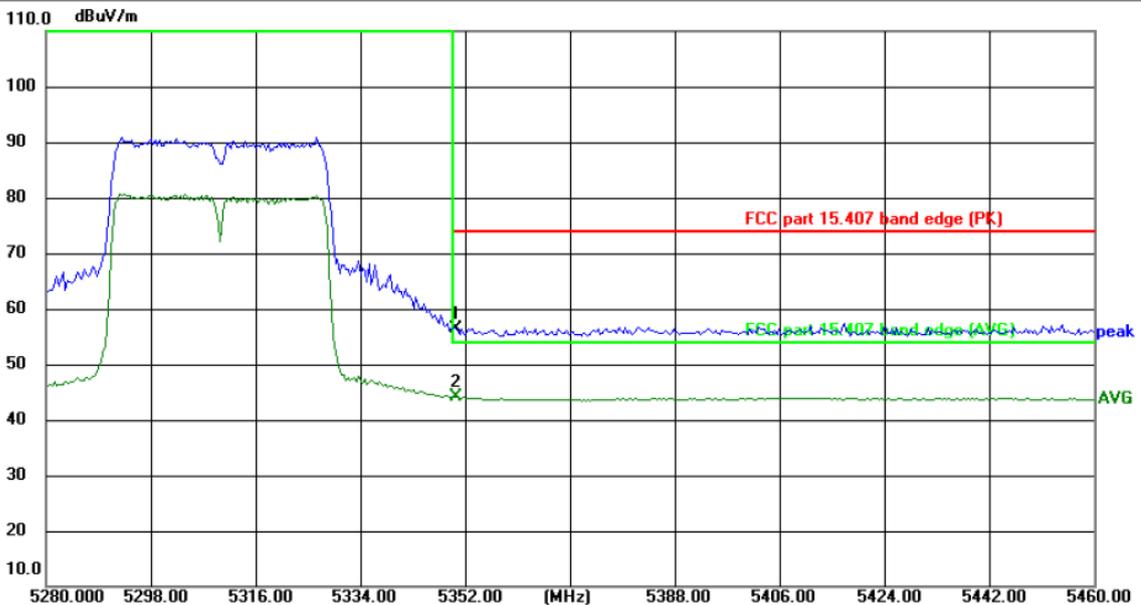
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	65.55	-8.48	57.07	74.00	-16.93	peak	P	
2 *	5150.000	52.14	-8.48	43.66	54.00	-10.34	AVG	P	

AC40-5310



Site: Polarization: **Horizontal** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

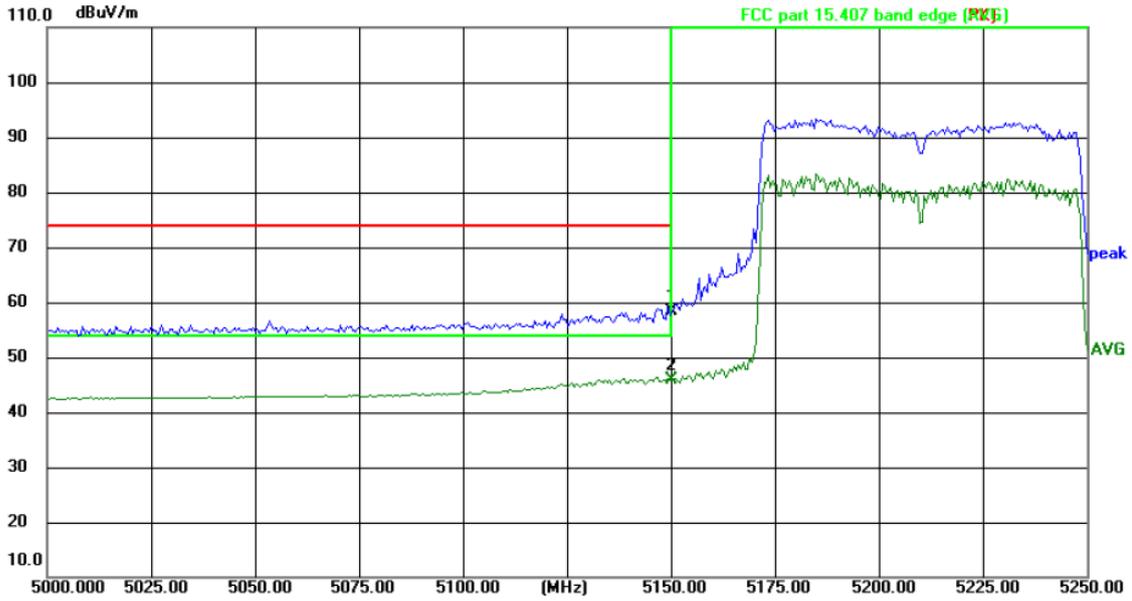
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	71.65	-8.40	63.25	74.00	-10.75	peak	P	
2 *	5350.000	56.84	-8.40	48.44	54.00	-5.56	AVG	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

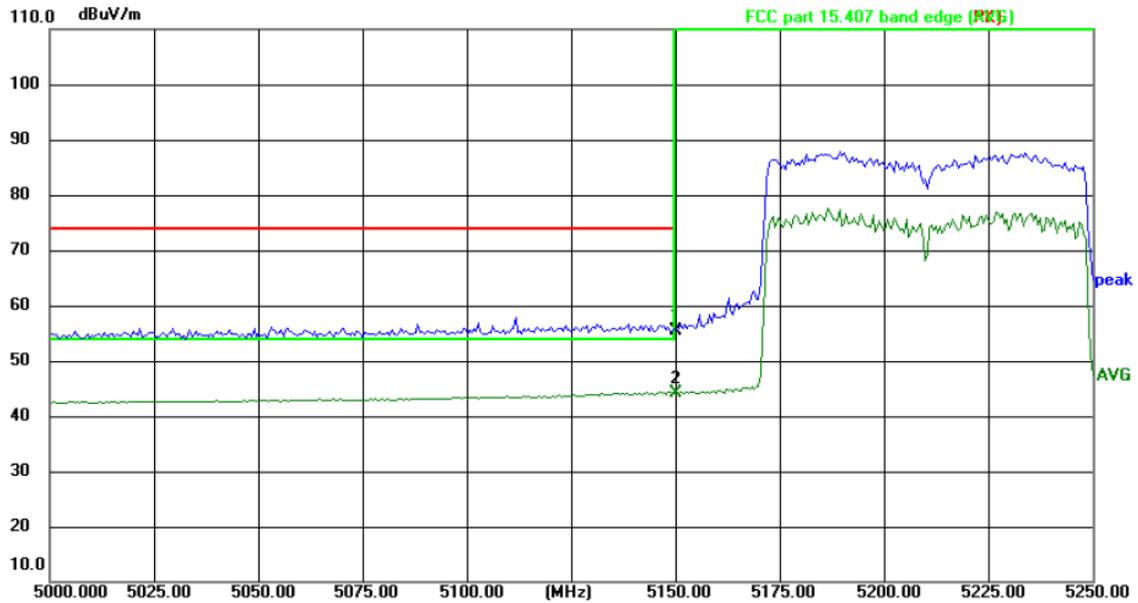
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	64.83	-8.40	56.43	74.00	-17.57	peak	P	
2 *	5350.000	52.42	-8.40	44.02	54.00	-9.98	AVG	P	

AC80-5210



Site: Polarization: **Horizontal** Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

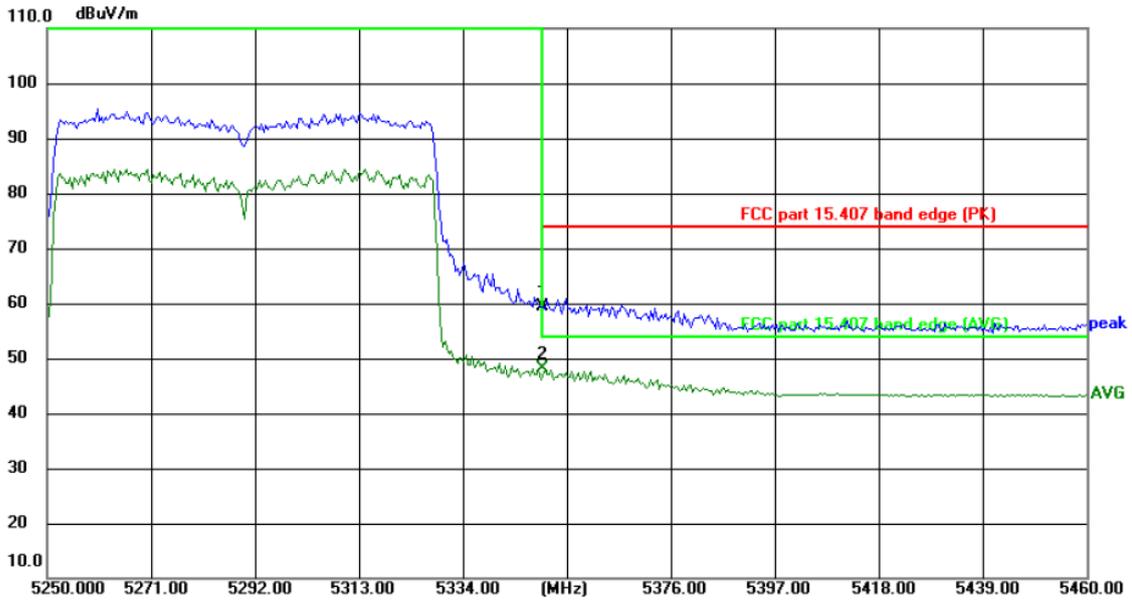
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	66.88	-8.48	58.40	74.00	-15.60	peak	P	
2 *	5150.000	54.38	-8.48	45.90	54.00	-8.10	AVG	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

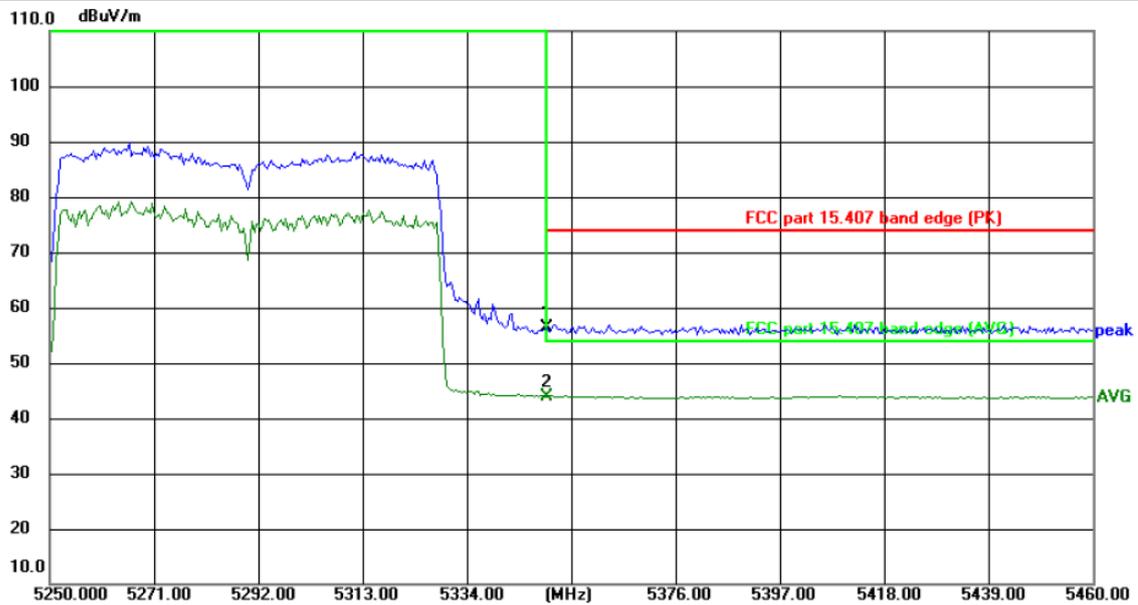
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	63.98	-8.48	55.50	74.00	-18.50	peak	P	
2 *	5150.000	52.60	-8.48	44.12	54.00	-9.88	AVG	P	

AC80-5290



Site: Polarization: **Horizontal** Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

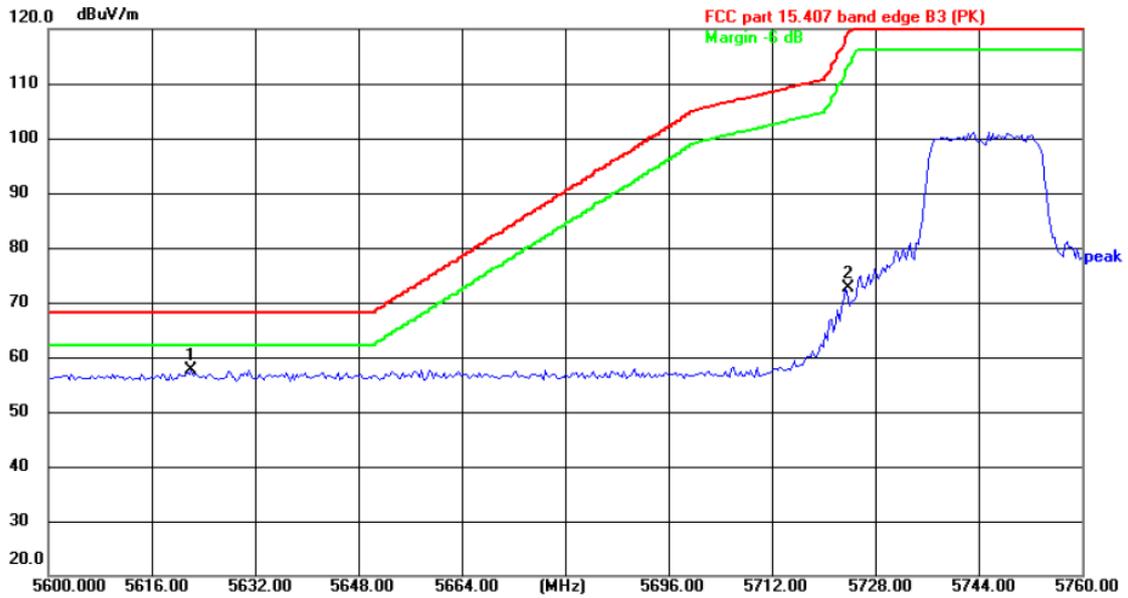
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	67.86	-8.40	59.46	74.00	-14.54	peak	P	
2 *	5350.000	56.47	-8.40	48.07	54.00	-5.93	AVG	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: DC 3.8 V Humidity: 52 %

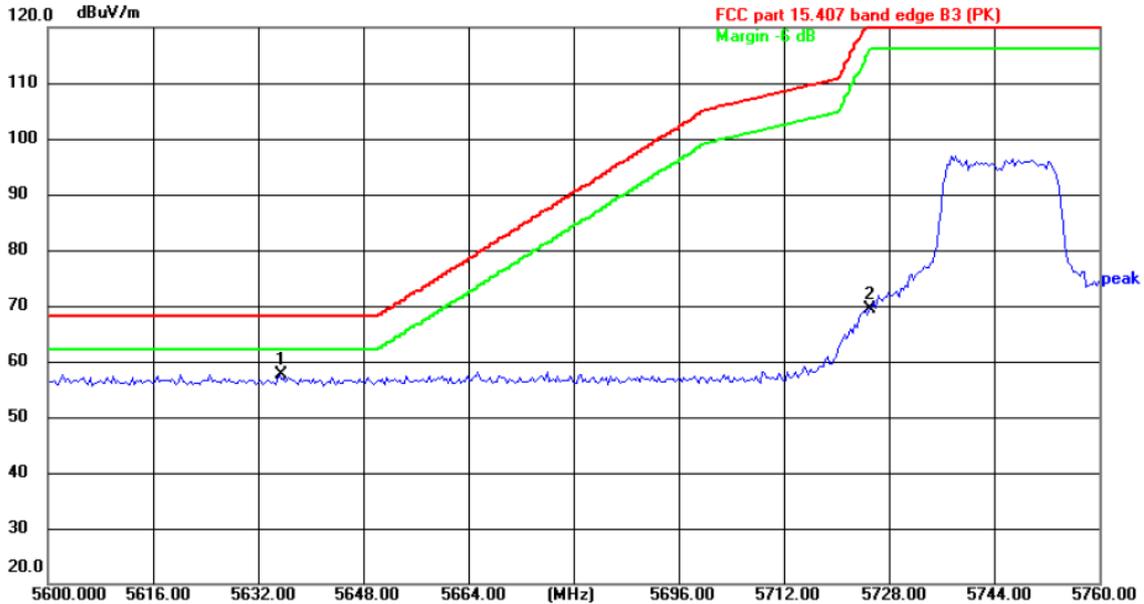
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	64.72	-8.40	56.32	74.00	-17.68	peak	P	
2 *	5350.000	52.31	-8.40	43.91	54.00	-10.09	AVG	P	

AC20-5745



Site: Polarization: **Horizontal** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

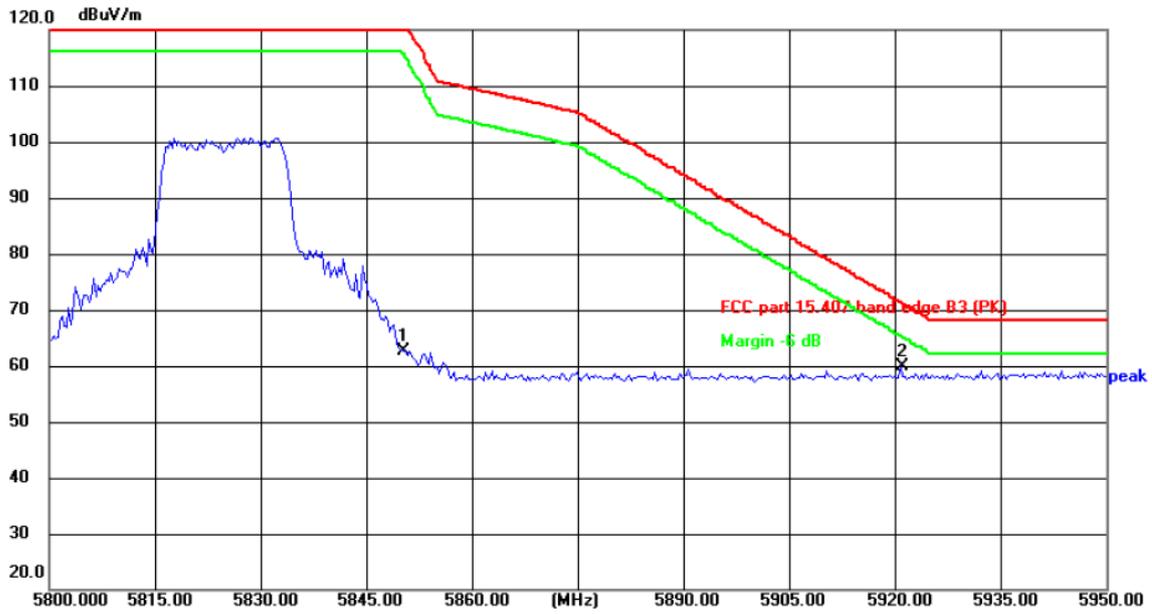
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5622.124	65.64	-7.95	57.69	68.20	-10.51	peak	P	
2	5723.447	80.19	-7.63	72.56	118.66	-46.10	peak	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

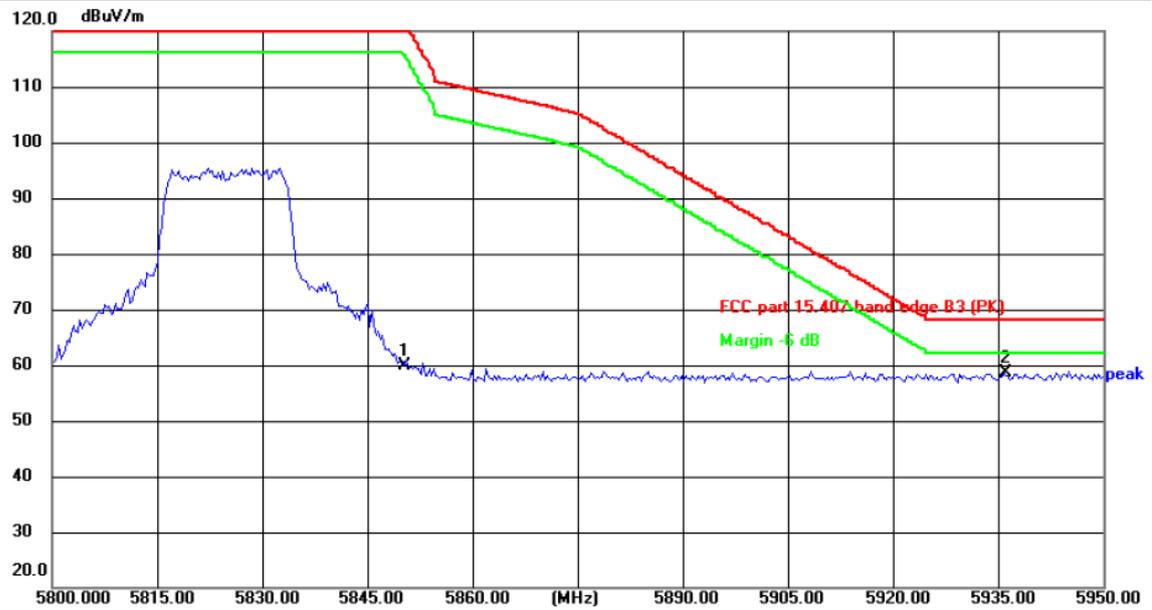
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5635.271	65.63	-7.91	57.72	68.20	-10.48	peak	P	
2	5725.000	77.06	-7.63	69.43	122.20	-52.77	peak	P	

AC20-5825



Site: Polarization: **Horizontal** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

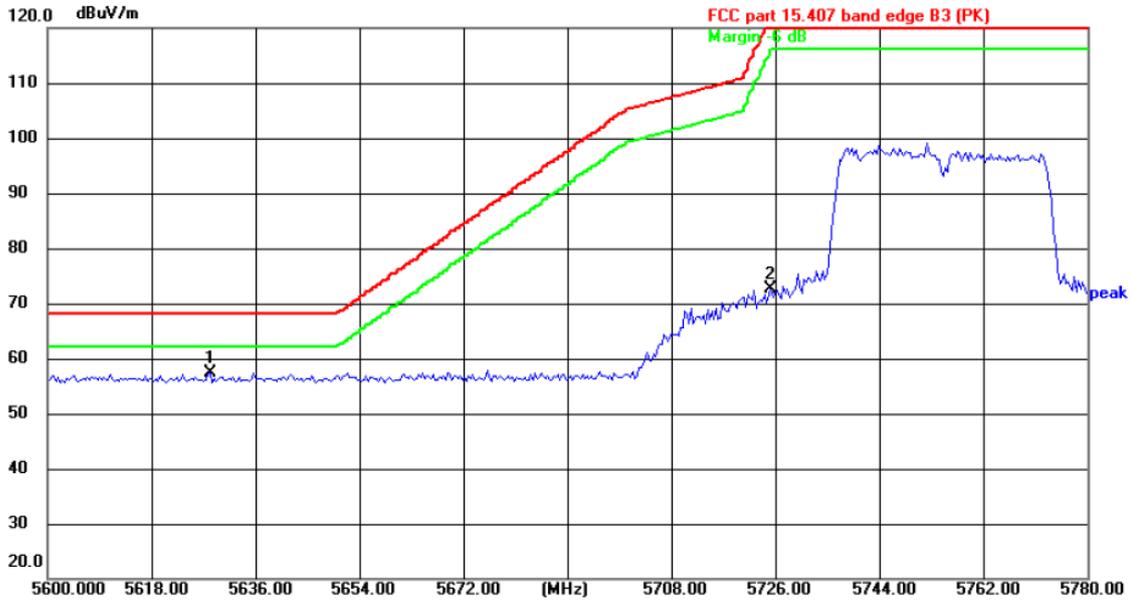
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5850.000	69.83	-7.23	62.60	122.20	-59.60	peak	P	
2 *	5920.842	66.86	-7.01	59.85	71.28	-11.43	peak	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

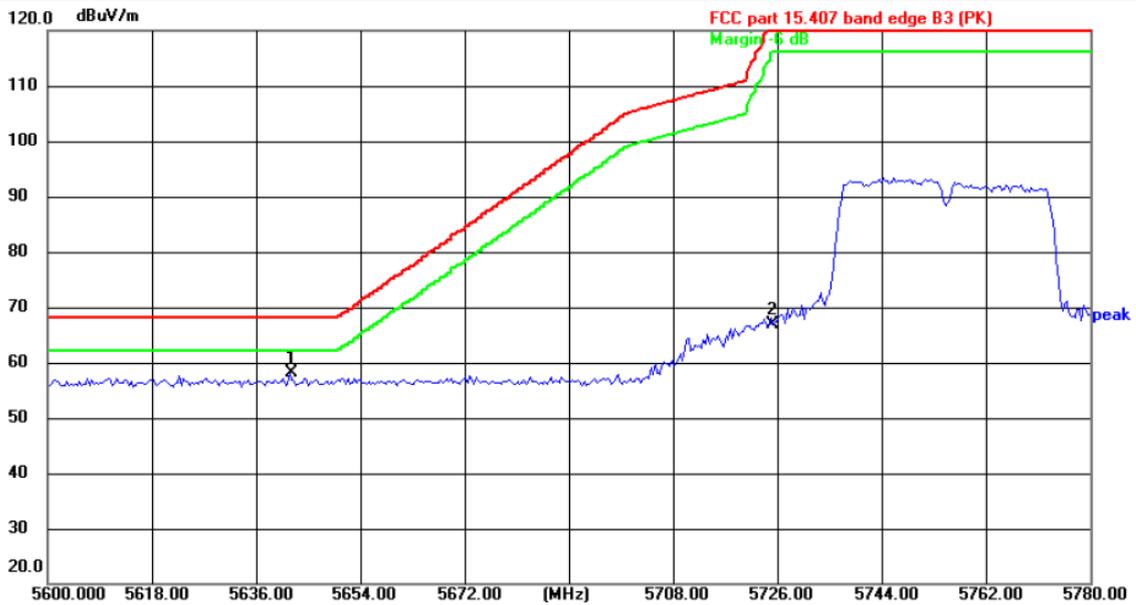
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5850.000	67.01	-7.23	59.78	122.20	-62.42	peak	P	
2 *	5935.872	65.50	-6.96	58.54	68.20	-9.66	peak	P	

AC40-5755



Site: Polarization: **Horizontal** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

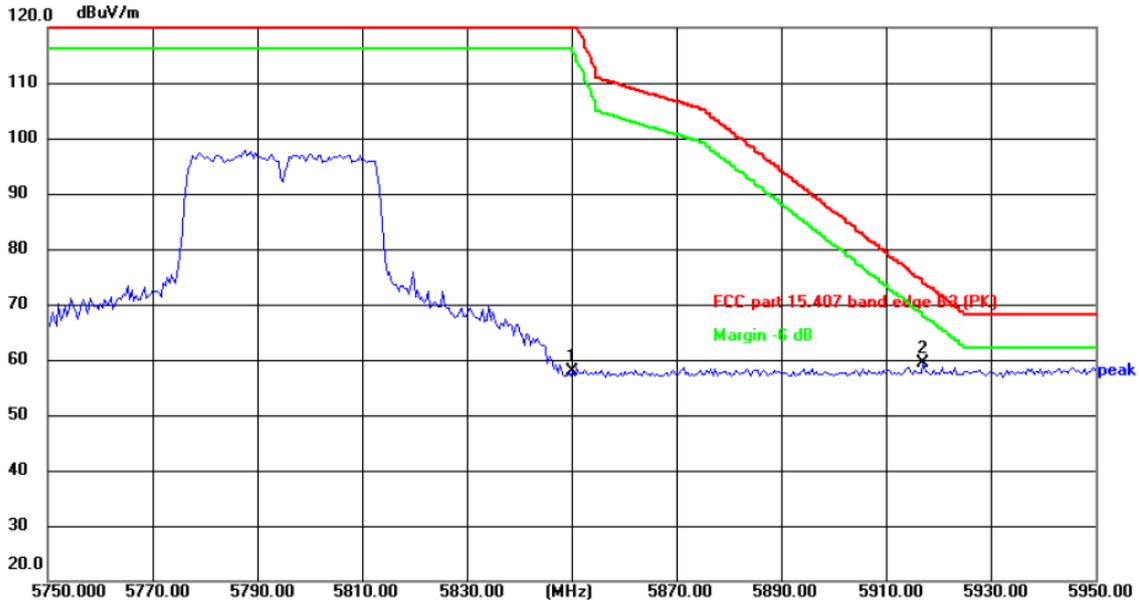
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5628.136	65.39	-7.94	57.45	68.20	-10.75	peak	P	
2	5725.000	80.15	-7.63	72.52	122.20	-49.68	peak	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

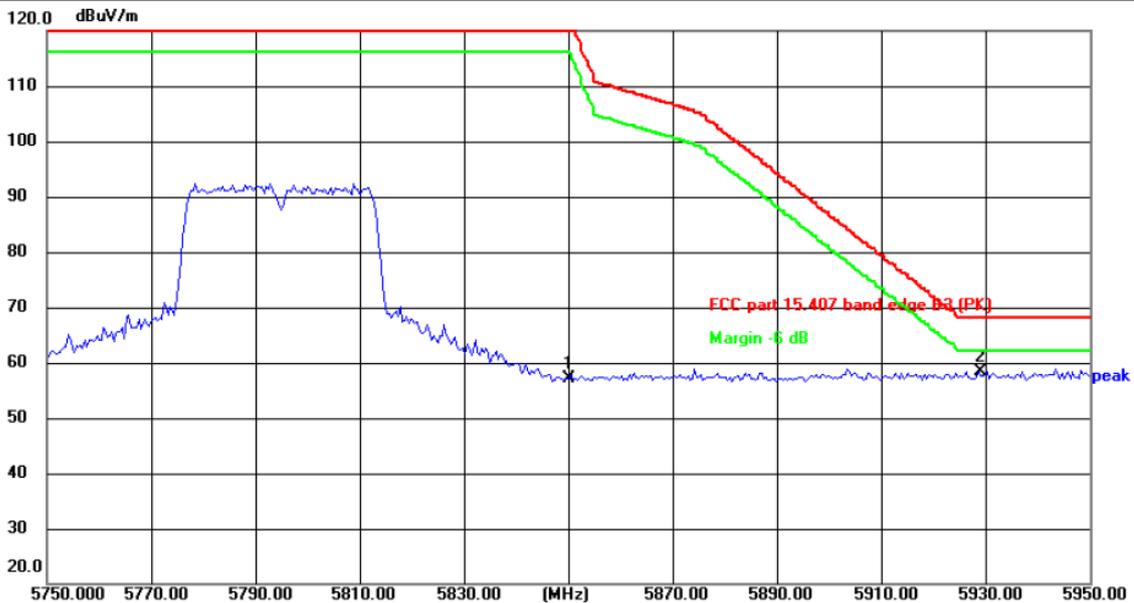
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5641.844	66.11	-7.89	58.22	68.20	-9.98	peak	P	
2	5725.000	74.62	-7.63	66.99	122.20	-55.21	peak	P	

AC40-5795



Site: Polarization: **Horizontal** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

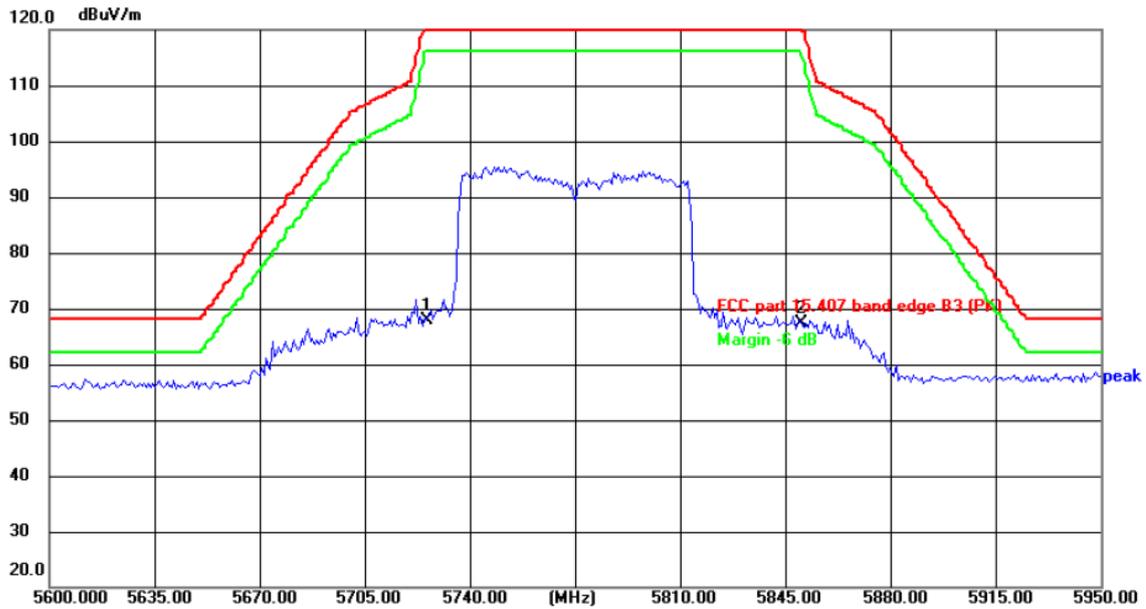
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5850.000	65.01	-7.23	57.78	122.20	-64.42	peak	P	
2 *	5917.134	66.45	-7.02	59.43	74.02	-14.59	peak	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

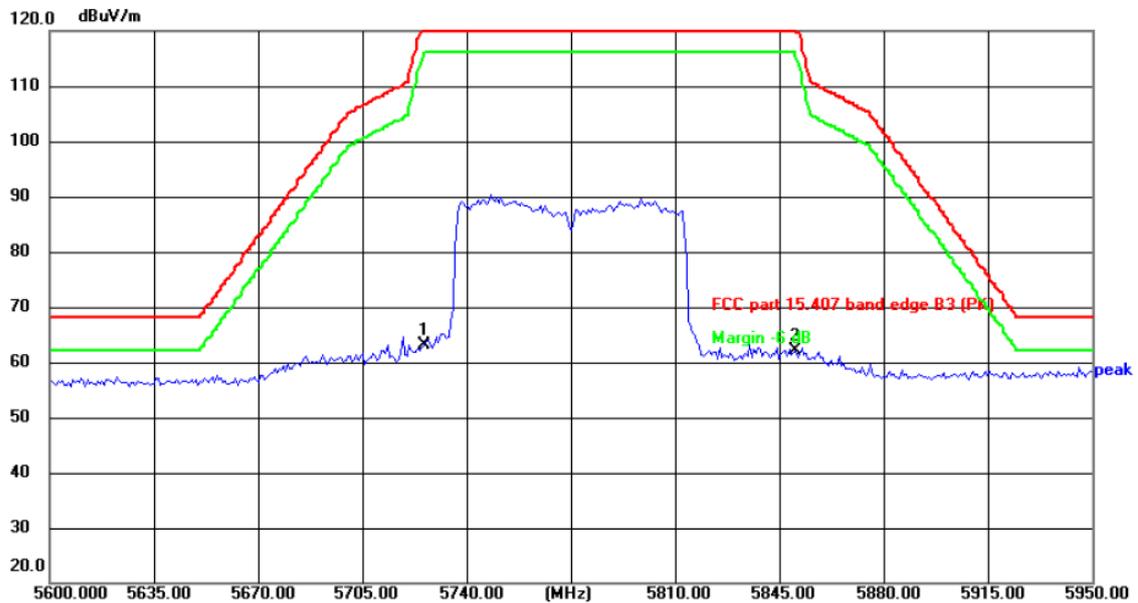
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5850.000	64.41	-7.23	57.18	122.20	-65.02	peak	P	
2 *	5928.758	65.30	-6.98	58.32	68.20	-9.88	peak	P	

AC80-5775



Site: Polarization: **Horizontal** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5725.000	75.39	-7.63	67.76	122.20	-54.44	peak	P	
2	5850.000	74.60	-7.23	67.37	122.20	-54.83	peak	P	



Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.407 band edge B3 (PK) Power: DC 3.8 V Humidity: 52 %

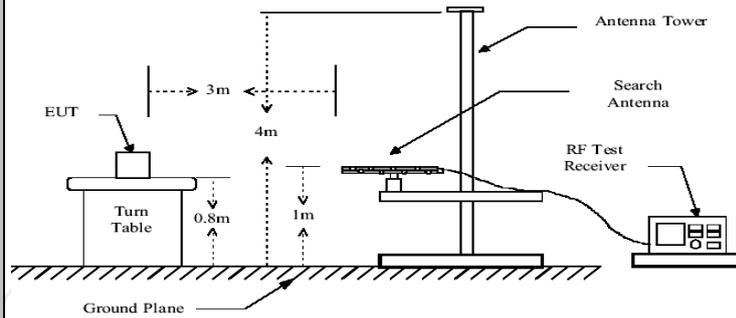
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5725.000	70.70	-7.63	63.07	122.20	-59.13	peak	P	
2	5850.000	69.33	-7.23	62.10	122.20	-60.10	peak	P	

Note: All modulation (802.11a, 802.11n, 802.11ac) have been tested, only the worst case in 802.11ac be reported.

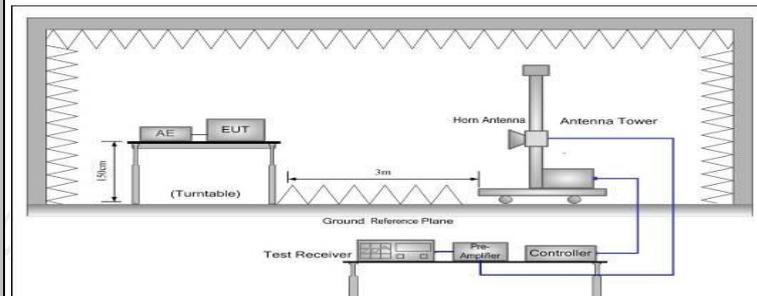
5.8. Unwanted Emissions

5.8.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
Test Method:	KDB 789033 D02 v02r01				
Frequency Range:	9kHz to 40GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Transmitting mode with modulation				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table, In restricted bands:				
	Frequency	Detector	Limit@3m		
	Above 1G	Peak	74dB μ V/m		
		AVG	54dB μ V/m		
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)		
	0.009-0.490	2400/F(KHz)	300		
	0.490-1.705	24000/F(KHz)	3		
	1.705-30	30	30		
	30-88	100	3		
	88-216	150	3		
216-960	200	3			
Above 960	500	3			
	In un-restricted bands: 68.2dB μ V/m				
Test setup:	For radiated emissions below 30MHz				
	<p>Distance = 3m</p> <p>EUT</p> <p>Turn table</p> <p>Ground Plane</p> <p>Computer</p> <p>Pre -Amplifier</p> <p>Receiver</p>				
	30MHz to 1GHz				



Above 1GHz



Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters 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 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.

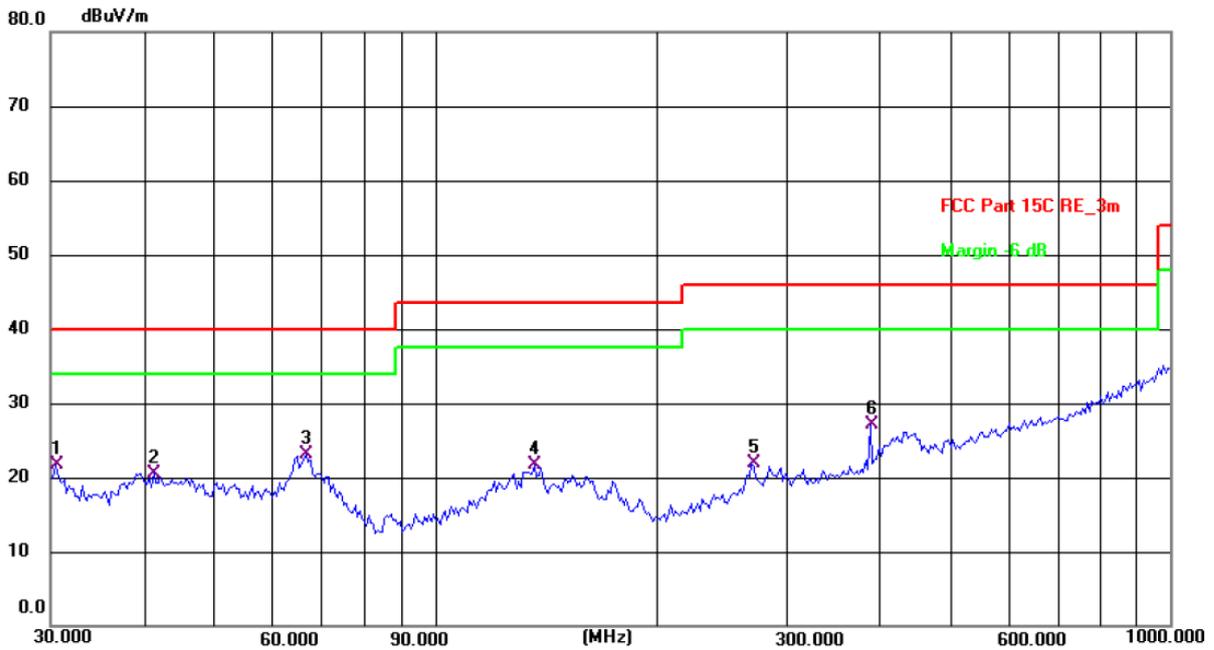
Test results:

PASS

5.8.2. Test Data

Please refer to following diagram for individual
Below 1GHz

Horizontal:



Site #1 3m Anechoic Chamber

Polarization: *Horizontal*

Temperature: 24.3(C)

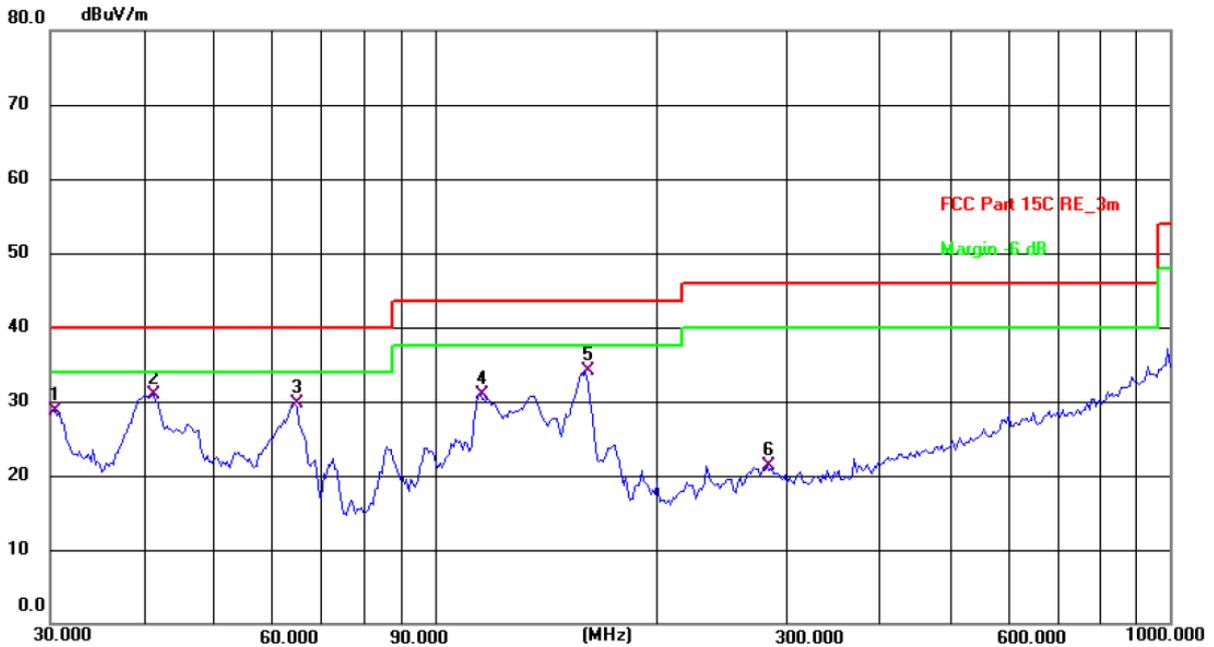
Humidity: 45 %

Limit: FCC Part 15C RE_3m

Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.4238	9.27	12.47	21.74	40.00	-18.26	QP	P	
2	41.4215	6.91	13.69	20.60	40.00	-19.40	QP	P	
3 *	66.7325	11.71	11.32	23.03	40.00	-16.97	QP	P	
4	136.4598	9.21	12.46	21.67	43.50	-21.83	QP	P	
5	269.4284	9.18	12.69	21.87	46.00	-24.13	QP	P	
6	390.7226	11.27	15.82	27.09	46.00	-18.91	QP	P	

Vertical:



Site #1 3m Anechoic Chamber Polarization: **Vertical** Temperature: 24.3(C) Humidity: 45 %
Limit: FCC Part 15C RE_3m Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.2111	16.29	12.43	28.72	40.00	-11.28	QP	P	
2 *	41.4215	17.13	13.69	30.82	40.00	-9.18	QP	P	
3	64.4331	18.15	11.61	29.76	40.00	-10.24	QP	P	
4	115.3205	19.73	11.20	30.93	43.50	-12.57	QP	P	
5	160.3456	20.75	13.35	34.10	43.50	-9.40	QP	P	
6	282.9852	8.26	13.14	21.40	46.00	-24.60	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 (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Lowest channel and 802.11a) was submitted only.

3. Measurement (dBuV) = Reading level + Correction Factor , correction Factor= Antenna Factor + Cable loss - Pre-amplifier.

Modulation Type: Band 1									
11a CH36: 5180MHz									
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)			
10360	H	38.11	---	8.02	46.13	---	68.2	---	-22.07
15540	H	38.46	---	9.87	48.33	---	74	54	-5.67
---	H	---	---	---	---	---	---	---	---
10360	V	38.04	---	8.02	46.06	---	68.2	---	-22.14
15540	V	38.78	---	9.87	48.65	---	74	54	-5.35
11a CH40: 5200MHz									
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)			
10400	H	39.97	---	7.97	47.94	---	68.2	---	-20.26
15600	H	38.43	---	9.83	48.26	---	74	54	-5.74
---	H	---	---	---	---	---	---	---	---
10400	V	40.78	---	7.97	48.75	---	68.2	---	-19.45
15600	V	38.06	---	9.83	47.89	---	74	54	-6.11
---	V	---	---	---	---	---	---	---	---
11a CH48: 5240MHz									
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)			
10480	H	38.34	---	7.97	46.31	---	68.2	---	-21.89
15720	H	37.89	---	9.83	47.72	---	74	54	-6.28
---	H	---	---	---	---	---	---	---	---
10480	V	38.69	---	7.97	46.66	---	68.2	---	-21.54
15720	V	36.44	---	9.83	46.27	---	74	54	-7.73
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH36: 5180MHz									
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)			
10360	H	41.27	---	8.02	49.29	---	68.2	---	-18.91
15540	H	37.55	---	9.87	47.42	---	74	54	-6.58
---	H	---	---	---	---	---	---	---	---
10360	V	42.33	---	8.02	50.35	---	68.2	---	-17.85
15540	V	37.95	---	9.87	47.82	---	74	54	-6.18
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH40: 5200MHz

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)			
10400	H	40.83	---	7.97	48.8	---	68.2	---	-19.4
15600	H	38.56	---	9.83	48.39	---	74	54	-5.61
---	H	---	---	---	---	---	---	---	---
10400	V	40.47	---	7.97	48.44	---	68.2	---	-19.76
15600	V	37.98	---	9.83	47.81	---	74	54	-6.19
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH48: 5240MHz

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)			
10480	H	41.72	---	7.97	49.69	---	68.2	---	-18.51
15720	H	39.92	---	9.83	49.75	---	74	54	-4.25
---	H	---	---	---	---	---	---	---	---
10480	V	40.85	---	7.97	48.82	---	68.2	---	-19.38
15720	V	39.46	---	9.83	49.29	---	74	54	-4.71
---	V	---	---	---	---	---	---	---	---

11n(HT40) CH38: 5190MHz

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)			
10380	H	39.97	---	7.75	47.72	---	68.2	---	-20.48
15570	H	37.81	---	9.87	47.68	---	74	54	-6.32
---	H	---	---	---	---	---	---	---	---
10380	V	40.76	---	7.75	48.51	---	68.2	---	-19.69
15570	V	37.99	---	9.87	47.86	---	74	54	-6.14
---	V	---	---	---	---	---	---	---	---

11n(HT40) CH46: 5230MHz

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)			
10460	H	41.87	---	7.97	49.84	---	68.2	---	-18.36
15690	H	38.24	---	9.83	48.07	---	74	54	-5.93
---	H	---	---	---	---	---	---	---	---
10460	V	41.72	---	7.97	49.69	---	68.2	---	-18.51
15690	V	38.92	---	9.83	48.75	---	74	54	-5.25
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH36: 5180MHz									
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)			
10360	H	40.76	---	8.02	48.78	---	68.2	---	-19.42
15540	H	37.95	---	9.87	47.82	---	74	54	-6.18
---	H	---	---	---	---	---	---	---	---
10360	V	38.77	---	8.02	46.79	---	68.2	---	-21.41
15540	V	39.46	---	9.87	49.33	---	74	54	-4.67
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH40: 5200MHz									
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)			
10400	H	39.99	---	7.97	47.96	---	68.2	---	-20.24
15600	H	38.74	---	9.83	48.57	---	74	54	-5.43
---	H	---	---	---	---	---	---	---	---
10400	V	39.52	---	7.97	47.49	---	68.2	---	-20.71
15600	V	38.23	---	9.83	48.06	---	74	54	-5.94
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH48:5240									
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)			
10480	H	37.42	---	7.97	45.39	---	68.2	---	-22.81
15720	H	37.75	---	9.83	47.58	---	74	54	-6.42
---	H	---	---	---	---	---	---	---	---
10480	V	38.94	---	7.97	46.91	---	68.2	---	-21.29
15720	V	38.72	---	9.83	48.55	---	74	54	-5.45
---	V	---	---	---	---	---	---	---	---
11ac(VHT40) CH38:5190									
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)			
10380	H	40.86	---	7.75	48.61	---	68.2	---	-19.59
15570	H	39.52	---	9.87	49.39	---	74	54	-4.61
---	H	---	---	---	---	---	---	---	---
10380	V	38.36	---	7.75	46.11	---	68.2	---	-22.09
15570	V	38.99	---	9.87	48.86	---	74	54	-5.14
---	V	---	---	---	---	---	---	---	---

11ac(VHT40) CH46:5230									
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)			
10460	H	38.88	---	7.97	46.85	---	68.2	---	-21.35
15690	H	38.51	---	9.83	48.34	---	74	54	-5.66
---	H	---	---	---	---	---	---	---	---
10460	V	39.47	---	7.97	47.44	---	68.2	---	-20.76
15690	V	37.83	---	9.83	47.66	---	74	54	-6.34
---	V	---	---	---	---	---	---	---	---
11ac(VHT80) CH42:5210									
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)			
10420	H	41.25	---	7.96	49.21	---	68.2	---	-18.99
15630	H	39.84	---	9.84	49.68	---	74	54	-4.32
---	H	---	---	---	---	---	---	---	---
10420	V	41.96	---	7.96	49.92	---	68.2	---	-18.28
15630	V	39.67	---	9.84	49.51	---	74	54	-4.49
---	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 40GHz.
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.

Modulation Type: Band 2A									
11a CH52: 5260MHz									
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)			
10520	H	38.19	---	7.97	46.16	---	68.2	---	-22.04
15780	H	36.82	---	9.83	46.65	---	74	54	-7.35
---	H	---	---	---	---	---	---	---	---
10520	V	41.38	---	7.97	49.35	---	68.2	---	-18.85
15780	V	38.74	---	9.83	48.57	---	74	54	-5.43
11a CH60: 5300MHz									
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)			
10600	H	38.58	---	7.98	46.56	---	74	54	-7.44
15900	H	38.62	---	9.85	48.47	---	74	54	-5.53
---	H	---	---	---	---	---	---	---	---
10600	V	39.34	---	7.98	47.32	---	74	54	-6.68
15900	V	37.89	---	9.85	47.74	---	74	54	-6.26
---	V	---	---	---	---	---	---	---	---
11a CH64: 5320MHz									
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)			
10640	H	40.03	---	7.98	48.01	---	74	54	-5.99
15960	H	37.42	---	9.85	47.27	---	74	54	-6.73
---	H	---	---	---	---	---	---	---	---
10640	V	39.56	---	7.98	47.54	---	74	54	-6.46
15960	V	35.97	---	9.85	45.82	---	74	54	-8.18
---	V	---	---	---	---	---	---	---	---
11n(HT20) C52: 5260MHz									
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)			
10520	H	41.03	---	7.97	49	---	68.2	---	-19.2
15780	H	38.06	---	9.83	47.89	---	74	54	-6.11
---	H	---	---	---	---	---	---	---	---
10520	V	38.45	---	7.97	46.42	---	68.2	---	-21.78
15780	V	35.76	---	9.83	45.59	---	74	54	-8.41
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH60: 5300MHz

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)			
10600	H	38.67	---	7.98	46.65	---	74	54	-7.35
15900	H	37.86	---	9.85	47.71	---	74	54	-6.29
---	H	---	---	---	---	---	---	---	---
10600	V	40.56	---	7.98	48.54	---	74	54	-5.46
15900	V	39.52	---	9.85	49.37	---	74	54	-4.63
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH64: 5320MHz

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)			
10640	H	37.74	---	7.98	45.72	---	74	54	-8.28
15960	H	35.96	---	9.85	45.81	---	74	54	-8.19
---	H	---	---	---	---	---	---	---	---
10640	V	39.44	---	7.98	47.42	---	74	54	-6.58
15960	V	39.69	---	9.85	49.54	---	74	54	-4.46
---	V	---	---	---	---	---	---	---	---

11n(HT40) CH54: 5270MHz

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)			
10540	H	41.08	---	7.97	49.05	---	68.2	---	-19.15
15810	H	37.78	---	9.83	47.61	---	74	54	-6.39
---	H	---	---	---	---	---	---	---	---
10540	V	37.61	---	7.97	45.58	---	68.2	---	-22.62
15810	V	36.52	---	9.83	46.35	---	74	54	-7.65
---	V	---	---	---	---	---	---	---	---

11n(HT40) CH62: 5310MHz

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)			
10620	H	40.64	---	7.98	48.62	---	74	54	-5.38
15930	H	38.83	---	9.85	48.68	---	74	54	-5.32
---	H	---	---	---	---	---	---	---	---
10620	V	38.21	---	7.98	46.19	---	74	54	-7.81
15930	V	36.34	---	9.85	46.19	---	74	54	-7.81
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) C52: 5260MHz

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)			
10520	H	40.34	---	7.97	48.31	---	68.2	---	-19.89
15780	H	39.56	---	9.83	49.39	---	74	54	-4.61
---	H	---	---	---	---	---	---	---	---
10520	V	40.47	---	7.97	48.44	---	68.2	---	-19.76
15780	V	37.04	---	9.83	46.87	---	74	54	-7.13
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH60: 5300MHz

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)			
10600	H	38.77	---	7.98	46.75	---	74	54	-7.25
15900	H	37.32	---	9.85	47.17	---	74	54	-6.83
---	H	---	---	---	---	---	---	---	---
10600	V	37.63	---	7.98	45.61	---	74	54	-8.39
15900	V	36.42	---	9.85	46.27	---	74	54	-7.73
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH64: 5320MHz

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)			
10640	H	40.95	---	7.98	48.93	---	74	54	-5.07
15960	H	39.11	---	9.85	48.96	---	74	54	-5.04
---	H	---	---	---	---	---	---	---	---
10640	V	40.28	---	7.98	48.26	---	74	54	-5.74
15960	V	35.69	---	9.85	45.54	---	74	54	-8.46
---	V	---	---	---	---	---	---	---	---

11ac(VHT40) CH54: 5270MHz

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)			
10540	H	40.64	---	7.97	48.61	---	68.2	---	-19.59
15810	H	37.55	---	9.83	47.38	---	74	54	-6.62
---	H	---	---	---	---	---	---	---	---
10540	V	39.11	---	7.97	47.08	---	68.2	---	-21.12
15810	V	37.52	---	9.83	47.35	---	74	54	-6.65
---	V	---	---	---	---	---	---	---	---

11ac(VHT40) CH62: 5310MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10620	H	38.83	---	7.98	46.81	---	74	54	-7.19
15930	H	36.96	---	9.85	46.81	---	74	54	-7.19
---	H	---	---	---	---	---	---	---	---
10620	V	39.25	---	7.98	47.23	---	74	54	-6.77
15930	V	37.46	---	9.85	47.31	---	74	54	-6.69
---	V	---	---	---	---	---	---	---	---
11ac(VHT80) C58:5290MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
10580	H	41.88	---	7.98	49.86	---	74	54	-4.14
15870	H	39.17	---	9.85	49.02	---	74	54	-4.98
---	H	---	---	---	---	---	---	---	---
10580	V	40.33	---	7.98	48.31	---	74	54	-5.69
15870	V	37.74	---	9.85	47.59	---	74	54	-6.41
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/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 40GHz.
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.

Modulation Type: Band 3									
11a CH149: 5745MHz									
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)			
11490	H	37.84	---	8.09	45.93	---	74	54	-8.07
17235	H	37.25	---	9.67	46.92	---	68.2	---	-21.28
---	H	---	---	---	---	---	---	---	---
11490	V	40.37	---	8.09	48.46	---	74	54	-5.54
17235	V	38.81	---	9.67	48.48	---	68.2	---	-19.72
11a CH157: 5785MHz									
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)			
11570	H	39.27	---	8.1	47.37	---	74	54	-6.63
17355	H	38.69	---	9.65	48.34	---	68.2	---	-19.86
---	H	---	---	---	---	---	---	---	---
11570	V	38.82	---	8.1	46.92	---	74	54	-7.08
17355	V	39.93	---	9.65	49.58	---	68.2	---	-18.62
---	V	---	---	---	---	---	---	---	---
11a CH165: 5825MHz									
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)			
11650	H	37.74	---	8.12	45.86	---	74	54	-8.14
17475	H	36.97	---	9.62	46.59	---	68.2	---	-21.61
---	H	---	---	---	---	---	---	---	---
11650	V	38.77	---	8.12	46.89	---	74	54	-7.11
17475	V	38.45	---	9.62	48.07	---	68.2	---	-20.13
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH149: 5745MHz									
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)			
11490	H	38.81	---	8.09	46.9	---	74	54	-7.1
17235	H	38.62	---	9.67	48.29	---	68.2	---	-19.91
---	H	---	---	---	---	---	---	---	---
11490	V	39.72	---	8.09	47.81	---	74	54	-6.19
17235	V	37.29	---	9.67	46.96	---	68.2	---	-21.24
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH157: 5785MHz									
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)			
11570	H	38.04	---	8.1	46.14	---	74	54	-7.86
17355	H	39.76	---	9.65	49.41	---	68.2	---	-18.79
---	H	---	---	---	---	---	---	---	---
11570	V	38.55	---	8.1	46.65	---	74	54	-7.35
17355	V	39.22	---	9.65	48.87	---	68.2	---	-19.33
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH165: 5825MHz									
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)			
11650	H	38.92	---	8.12	47.04	---	74	54	-6.96
17475	H	37.17	---	9.62	46.79	---	68.2	---	-21.41
---	H	---	---	---	---	---	---	---	---
11650	V	38.56	---	8.12	46.68	---	74	54	-7.32
17475	V	39.14	---	9.62	48.76	---	68.2	---	-19.44
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH151: 5755MHz									
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)			
11510	H	40.45	---	8.09	48.54	---	74	54	-5.46
17265	H	37.97	---	9.67	47.64	---	68.2	---	-20.56
---	H	---	---	---	---	---	---	---	---
11510	V	41.08	---	8.09	49.17	---	74	54	-4.83
17265	V	38.33	---	9.67	48	---	68.2	---	-20.2
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH159: 5795MHz									
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)			
11590	H	38.51	---	8.1	46.61	---	74	54	-7.39
17385	H	38.67	---	9.65	48.32	---	68.2	---	-19.88
---	H	---	---	---	---	---	---	---	---
11590	V	38.38	---	8.1	46.48	---	74	54	-7.52
17385	V	37.77	---	9.65	47.42	---	68.2	---	-20.78
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH149: 5745MHz									
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)			
11490	H	40.17	---	8.09	48.26	---	74	54	-5.74
17235	H	37.64	---	9.67	47.31	---	68.2	---	-20.89
---	H	---	---	---	---	---	---	---	---
11490	V	40.13	---	8.09	48.22	---	74	54	-5.78
17235	V	38.28	---	9.67	47.95	---	68.2	---	-20.25
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH157: 5785MHz									
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)			
11570	H	38.25	---	8.1	46.35	---	74	54	-7.65
17355	H	36.74	---	9.65	46.39	---	68.2	---	-21.81
---	H	---	---	---	---	---	---	---	---
11570	V	37.72	---	8.1	45.82	---	74	54	-8.18
17355	V	38.46	---	9.65	48.11	---	68.2	---	-20.09
---	V	---	---	---	---	---	---	---	---
11ac(VHT20) CH165: 5825MHz									
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)			
11650	H	40.07	---	8.12	48.19	---	74	54	-5.81
17475	H	38.85	---	9.62	48.47	---	68.2	---	-19.73
---	H	---	---	---	---	---	---	---	---
11650	V	38.99	---	8.12	47.11	---	74	54	-6.89
17475	V	40.47	---	9.62	50.09	---	68.2	---	-18.11
---	V	---	---	---	---	---	---	---	---
11ac(VHT40) CH151: 5755MHz									
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)			
11510	H	39.63	---	8.09	47.72	---	74	54	-6.28
17265	H	37.49	---	9.67	47.16	---	68.2	---	-21.04
---	H	---	---	---	---	---	---	---	---
11510	V	40.57	---	8.09	48.66	---	74	54	-5.34
17265	V	36.16	---	9.67	45.83	---	68.2	---	-22.37
---	V	---	---	---	---	---	---	---	---

11ac(VHT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11590	H	40.08	---	8.1	48.18	---	74	54	-5.82
17385	H	37.16	---	9.65	46.81	---	68.2	---	-21.39
---	H	---	---	---	---	---	---	---	---
11590	V	39.75	---	8.1	47.85	---	74	54	-6.15
17385	V	38.19	---	9.65	47.84	---	68.2	---	-20.36
---	V	---	---	---	---	---	---	---	---
11ac(VHT80) CH155: 5775MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
11550	H	40.12	---	8.09	48.21	---	74	54	-5.79
17325	H	38.48	---	9.66	48.14	---	68.2	---	-20.06
---	H	---	---	---	---	---	---	---	---
11550	V	41.09	---	8.09	49.18	---	74	54	-4.82
17325	V	38.67	---	9.66	48.33	---	68.2	---	-19.87
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/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 40GHz.
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.

5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	<pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] subgraph TC [Temperature Chamber] EUT end P[AC/DC Power supply] --- EUT </pre>
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at all models(11a,11n,11ac), the worst case (11ac) was found and test data was shown in this report.

Test plots as follows:

Test mode:		802.11ac(HT20)	Frequency(MHz):	5180
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5179.980	-20000	PASS
35		5179.980	-20000	PASS
25		5179.980	-20000	PASS
15		5179.980	-20000	PASS
5		5180	0	PASS
0		5180	0	PASS
25	3.3V	5180	0	PASS
	3.8V	5179.980	-20000	PASS
	4.35V	5180	0	PASS

Test mode:		802.11ac(HT20)	Frequency(MHz):	5200
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5199.980	-20000	PASS
35		5200	0	PASS
25		5199.980	-20000	PASS
15		5199.980	-20000	PASS
5		5199.980	-20000	PASS
0		5199.980	-20000	PASS
25	3.3V	5199.980	-20000	PASS
	3.8V	5199.960	-40000	PASS
	4.35V	5199.980	-20000	PASS

Test mode:		802.11ac(HT20)	Frequency(MHz):	5240
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5239.980	-20000	PASS
35		5239.980	-20000	PASS
25		5239.980	-20000	PASS
15		5240	0	PASS
5		5239.960	-40000	PASS
0		5239.960	-40000	PASS
25	3.3V	5239.980	-20000	PASS
	3.8V	5239.980	-20000	PASS
	4.35V	5239.980	-20000	PASS

Test mode:		802.11ac(HT20)	Frequency(MHz):	5745
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5744.979	-21000	PASS
35		5744.979	-21000	PASS
25		5744.979	-21000	PASS
15		5744.979	-21000	PASS
5		5744.979	-21000	PASS
0		5744.979	-21000	PASS
25		3.3V	5744.979	-21000
	3.8V	5744.979	-21000	PASS
	4.35V	5744.979	-21000	PASS

Test mode:		802.11ac(HT20)	Frequency(MHz):	5785
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5784.979	-21000	PASS
35		5784.979	-21000	PASS
25		5784.979	-21000	PASS
15		5784.979	-21000	PASS
5		5784.979	-21000	PASS
0		5784.979	-21000	PASS
25		3.3V	5784.979	-21000
	3.8V	5784.979	-21000	PASS
	4.35V	5784.979	-21000	PASS

Test mode:		802.11ac(HT20)	Frequency(MHz):	5825
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5824.979	-21000	PASS
35		5824.979	-21000	PASS
25		5824.979	-21000	PASS
15		5824.979	-21000	PASS
5		5824.979	-21000	PASS
0		5824.979	-21000	PASS
25		3.3V	5824.979	-21000
	3.8V	5824.979	-21000	PASS
	4.35V	5824.979	-21000	PASS

Test mode:		802.11ac(HT40)	Frequency(MHz):	5190
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5189.980	-20000	PASS
35		5189.981	-19000	PASS
25		5189.981	-19000	PASS
15		5189.981	-19000	PASS
5		5189.981	-19000	PASS
0		5189.981	-19000	PASS
25	3.3V	5189.981	-19000	PASS
	3.8V	5189.981	-19000	PASS
	4.35V	5189.981	-19000	PASS

Test mode:		802.11ac(HT40)	Frequency(MHz):	5230
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5229.980	-20000	PASS
35		5229.980	-20000	PASS
25		5229.980	-20000	PASS
15		5229.980	-20000	PASS
5		5229.980	-20000	PASS
0		5229.980	-20000	PASS
25	3.3V	5229.980	-20000	PASS
	3.8V	5229.980	-20000	PASS
	4.35V	5229.980	-20000	PASS

Test mode:		802.11ac(HT40)	Frequency(MHz):	5755
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5754.979	-21000	PASS
35		5754.979	-21000	PASS
25		5754.979	-21000	PASS
15		5754.979	-21000	PASS
5		5754.979	-21000	PASS
0		5754.979	-21000	PASS
25	3.3V	5754.979	-21000	PASS
	3.8V	5754.979	-21000	PASS
	4.35V	5754.979	-21000	PASS

Test mode:		802.11ac(HT40)	Frequency(MHz):	5795
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5794.980	-20000	PASS
35		5794.980	-20000	PASS
25		5794.980	-20000	PASS
15		5794.980	-20000	PASS
5		5794.980	-20000	PASS
0		5794.980	-20000	PASS
25		3.3V	5794.981	-19000
	3.8V	5794.980	-20000	PASS
	4.35V	5794.980	-20000	PASS

Test mode:		802.11ac(VHT80)	Frequency(MHz):	5210
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5209.981	-19000	PASS
35		5209.981	-19000	PASS
25		5209.981	-19000	PASS
15		5209.981	-19000	PASS
5		5209.981	-19000	PASS
0		5209.981	-19000	PASS
25		3.3V	5209.981	-19000
	3.8V	5209.981	-19000	PASS
	4.35V	5209.981	-19000	PASS

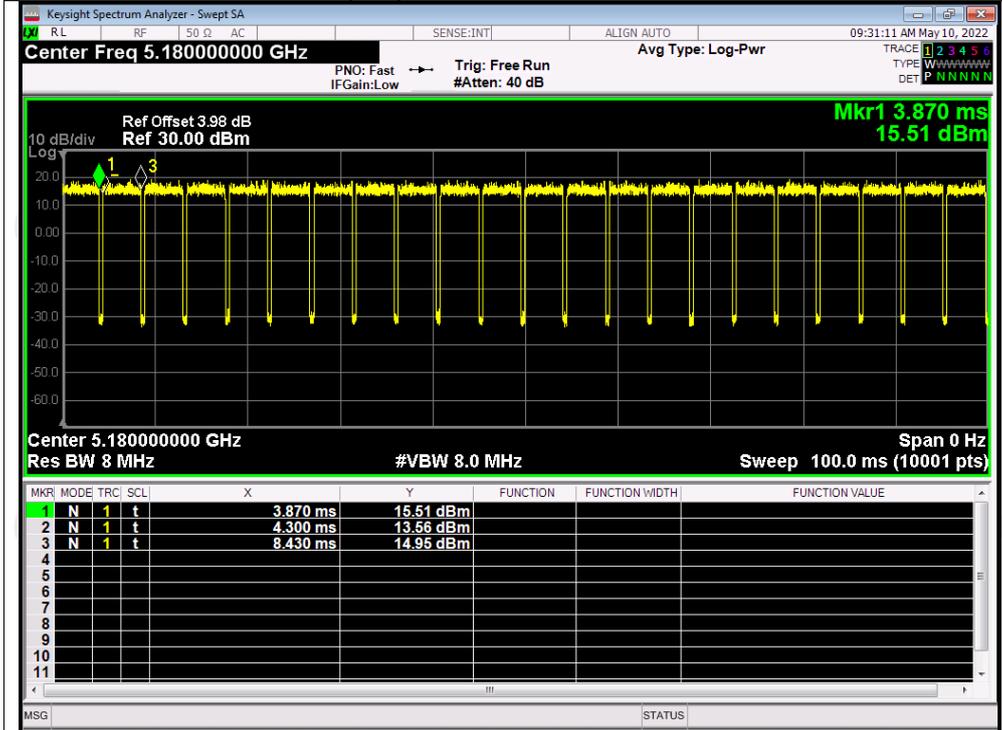
Test mode:		802.11ac(VHT80)	Frequency(MHz):	5775
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.8V	5774.986	-14000	PASS
35		5774.986	-14000	PASS
25		5774.986	-14000	PASS
15		5774.986	-14000	PASS
5		5774.986	-14000	PASS
0		5774.986	-14000	PASS
25		3.3V	5774.986	-14000
	3.8V	5774.986	-14000	PASS
	4.35V	5774.986	-14000	PASS

Appendix A: Test Result of Conducted Test

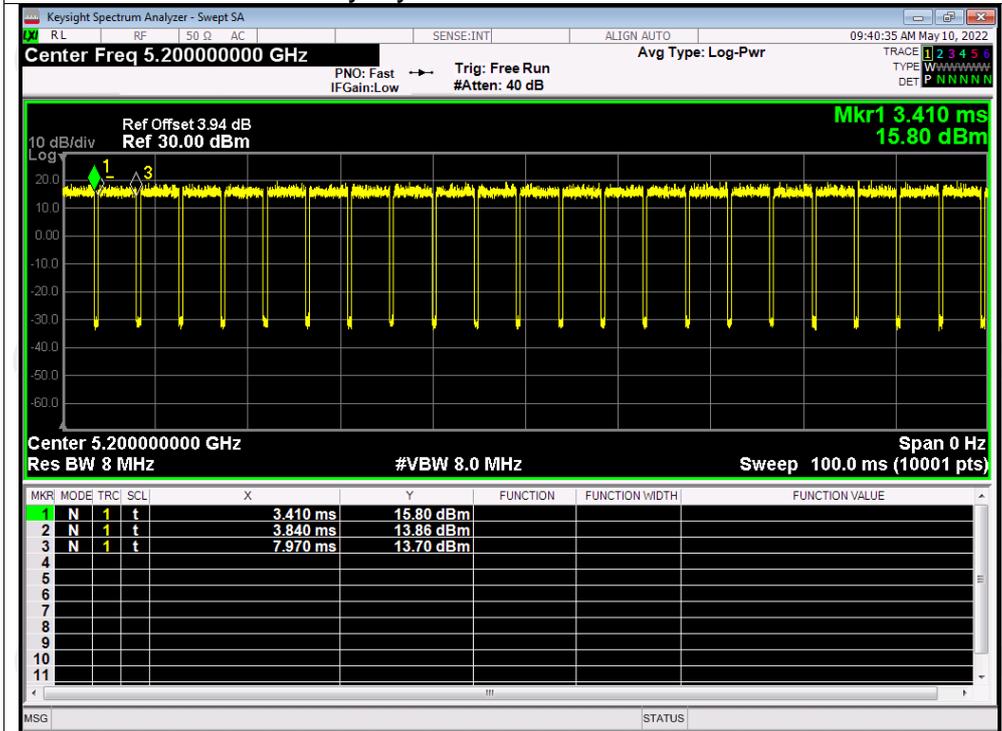
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	90.81	0.42
NVNT	a	5200	90.76	0.42
NVNT	a	5240	90.76	0.42
NVNT	n20	5180	90.48	0.43
NVNT	n20	5200	90.46	0.44
NVNT	n20	5240	90.47	0.43
NVNT	n40	5190	80.99	0.92
NVNT	n40	5230	81	0.92
NVNT	ac20	5180	90.46	0.44
NVNT	ac20	5200	90.46	0.44
NVNT	ac20	5240	90.46	0.44
NVNT	ac40	5190	80.84	0.92
NVNT	ac40	5230	80.97	0.92
NVNT	ac80	5210	66.66	1.76
NVNT	a	5260	90.76	0.42
NVNT	a	5300	90.76	0.42
NVNT	a	5320	90.76	0.42
NVNT	n20	5260	89.95	0.46
NVNT	n20	5300	89.43	0.49
NVNT	n20	5320	89.41	0.49
NVNT	n40	5270	80.99	0.92
NVNT	n40	5310	80.95	0.92
NVNT	ac20	5260	89.90	0.46
NVNT	ac20	5300	89.40	0.49
NVNT	ac20	5320	89.68	0.47
NVNT	ac40	5270	80.92	0.92
NVNT	ac40	5310	80.99	0.92
NVNT	ac80	5290	66.68	1.76
NVNT	a	5745	90.76	0.42
NVNT	a	5785	90.76	0.42
NVNT	a	5825	90.89	0.41
NVNT	n20	5745	89.41	0.49
NVNT	n20	5785	89.94	0.46
NVNT	n20	5825	89.71	0.47
NVNT	n40	5755	80.51	0.94
NVNT	n40	5795	80.97	0.92
NVNT	ac20	5745	89.93	0.46
NVNT	ac20	5785	89.40	0.49
NVNT	ac20	5825	89.40	0.49
NVNT	ac40	5755	80.91	0.92
NVNT	ac40	5795	80.93	0.92
NVNT	ac80	5775	66.68	1.76

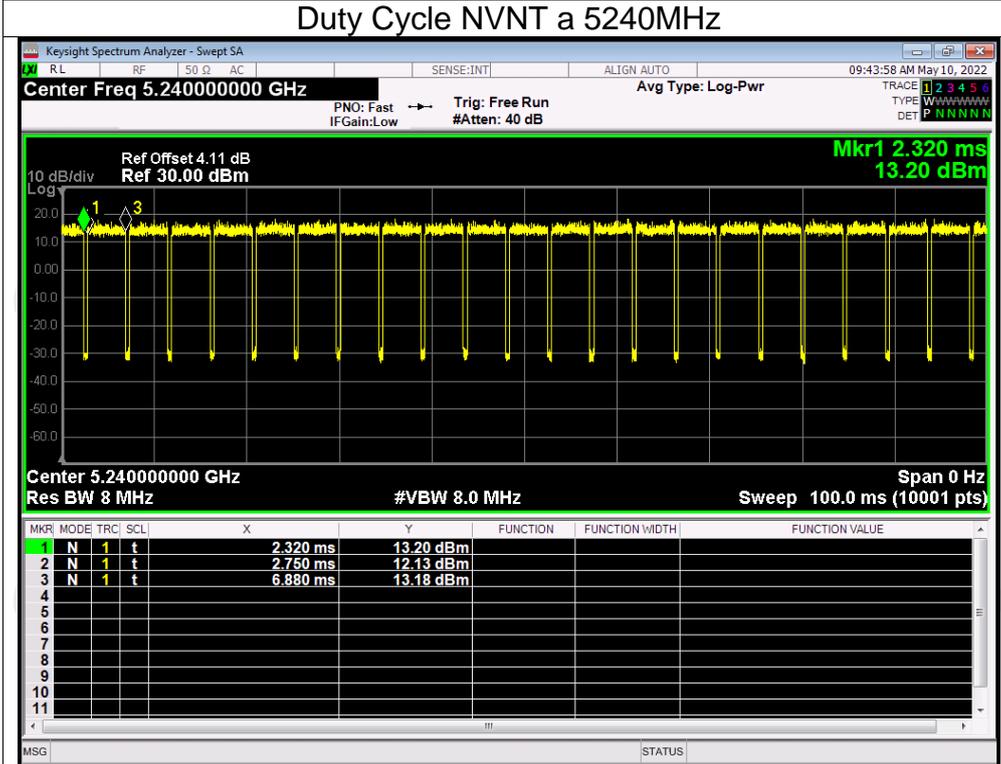
Test Graphs
Duty Cycle NVNT a 5180MHz



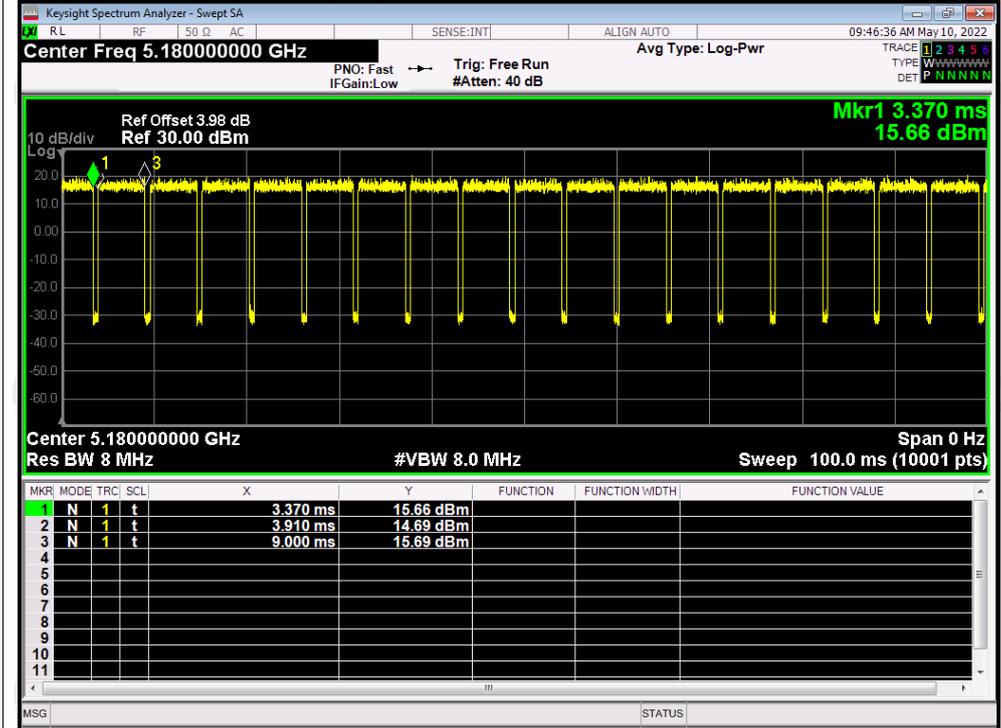
Duty Cycle NVNT a 5200MHz



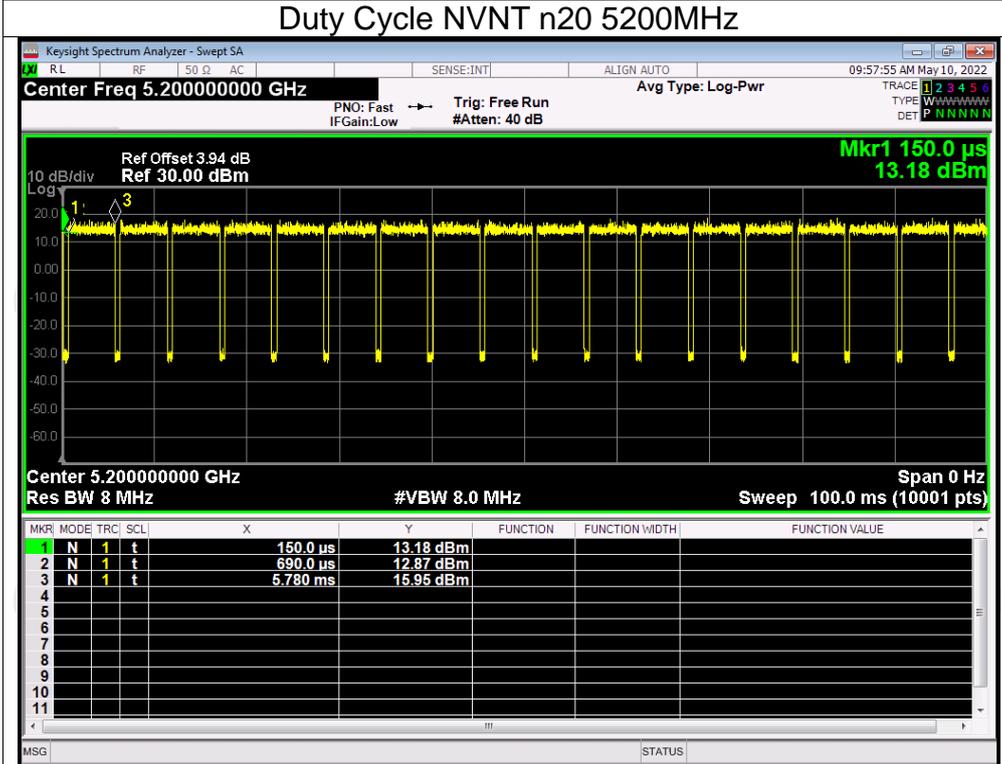
Duty Cycle NVNT a 5240MHz



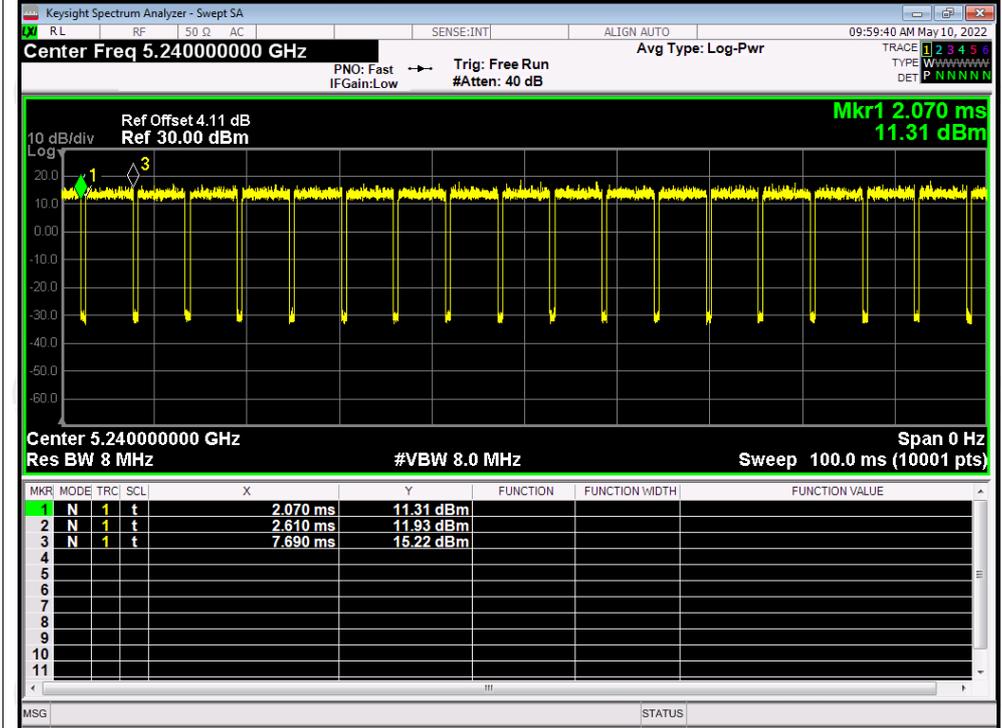
Duty Cycle NVNT n20 5180MHz



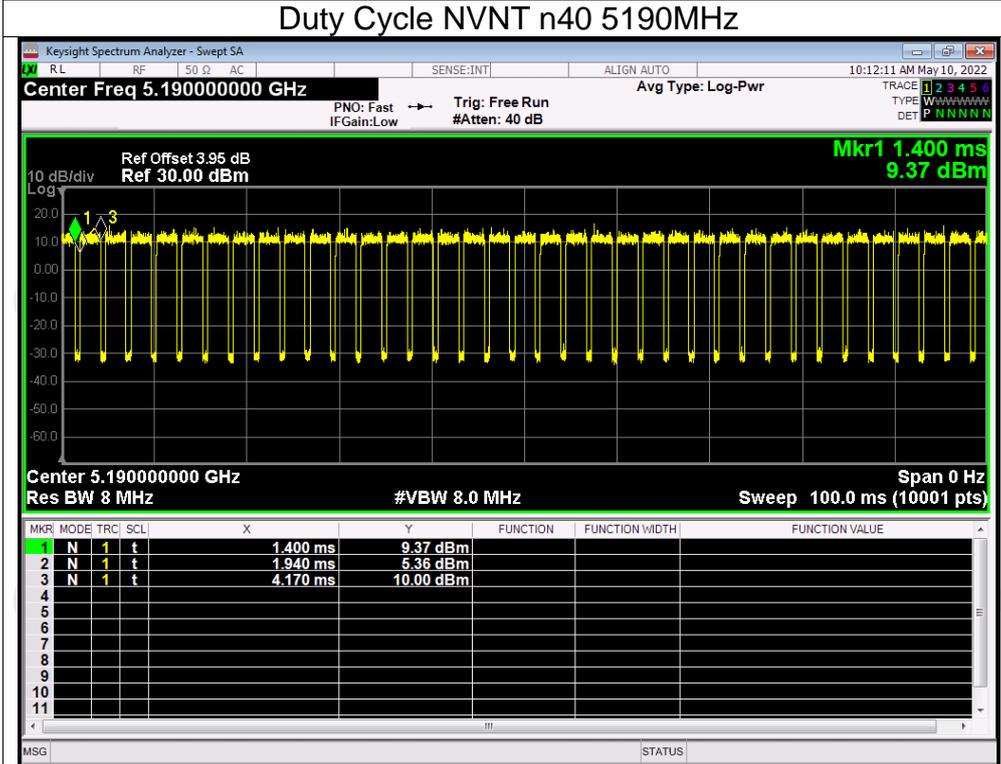
Duty Cycle NVNT n20 5200MHz



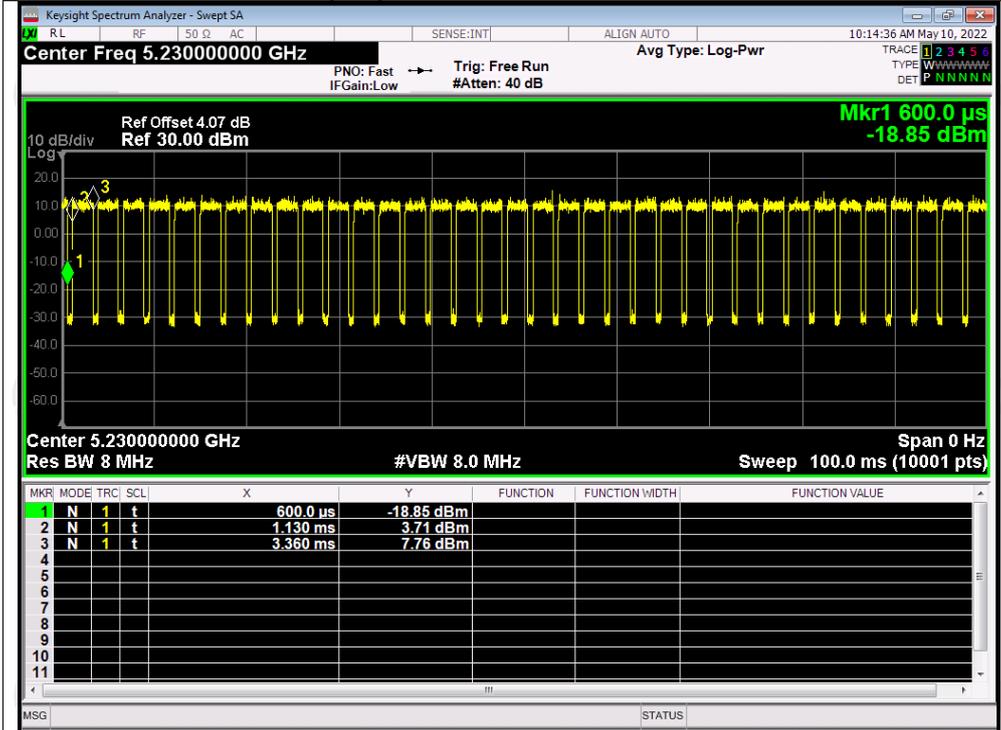
Duty Cycle NVNT n20 5240MHz



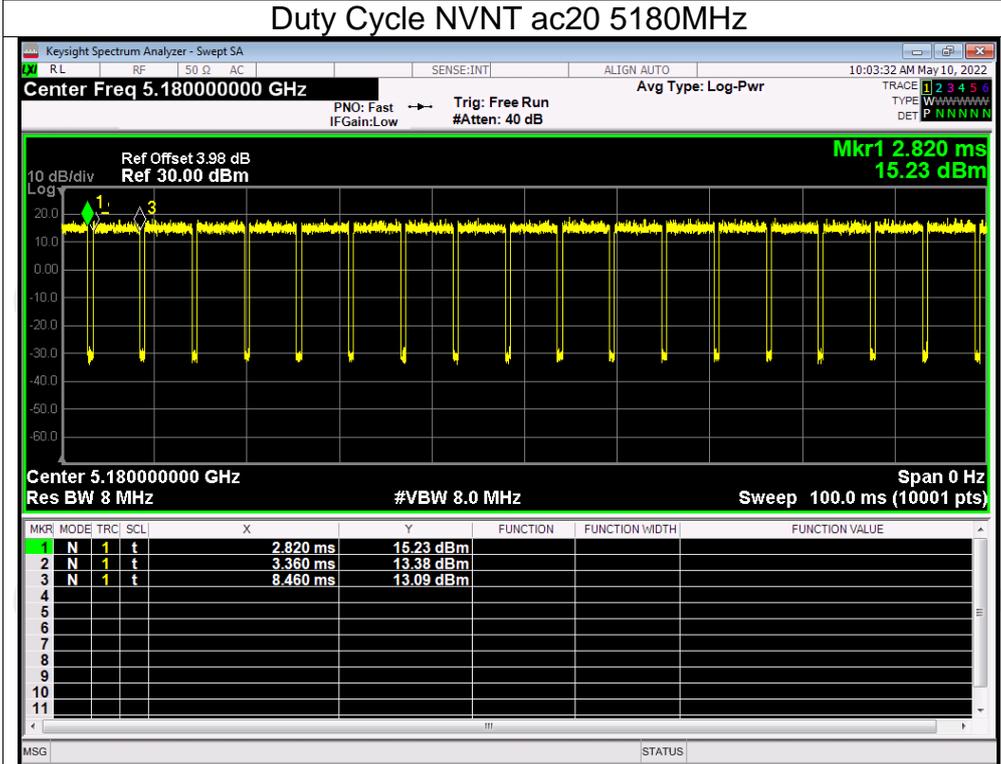
Duty Cycle NVNT n40 5190MHz



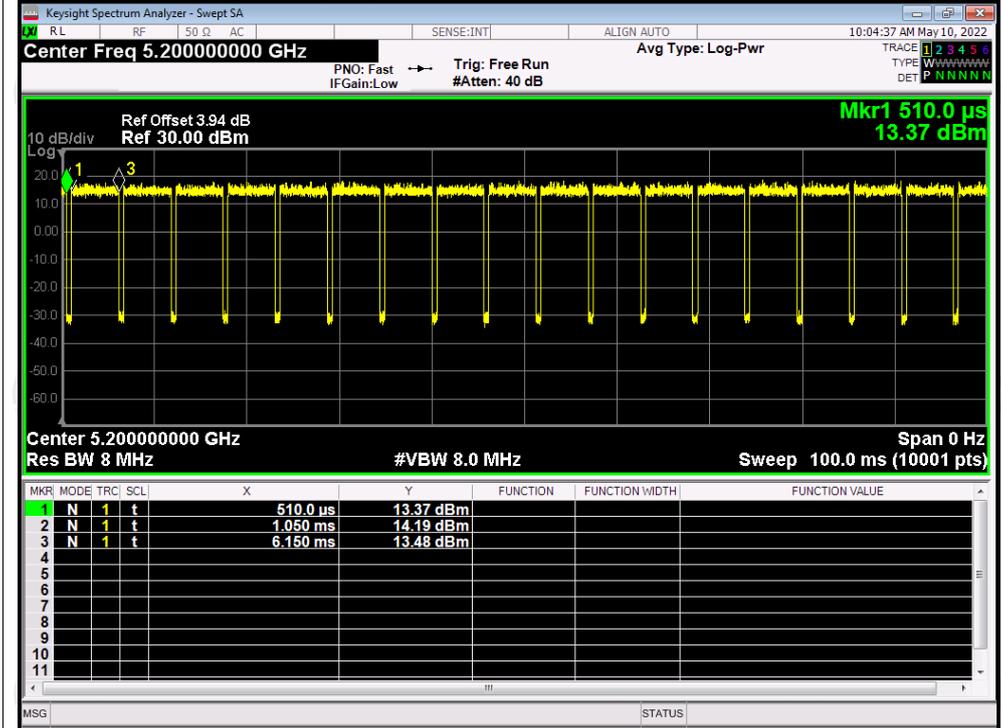
Duty Cycle NVNT n40 5230MHz



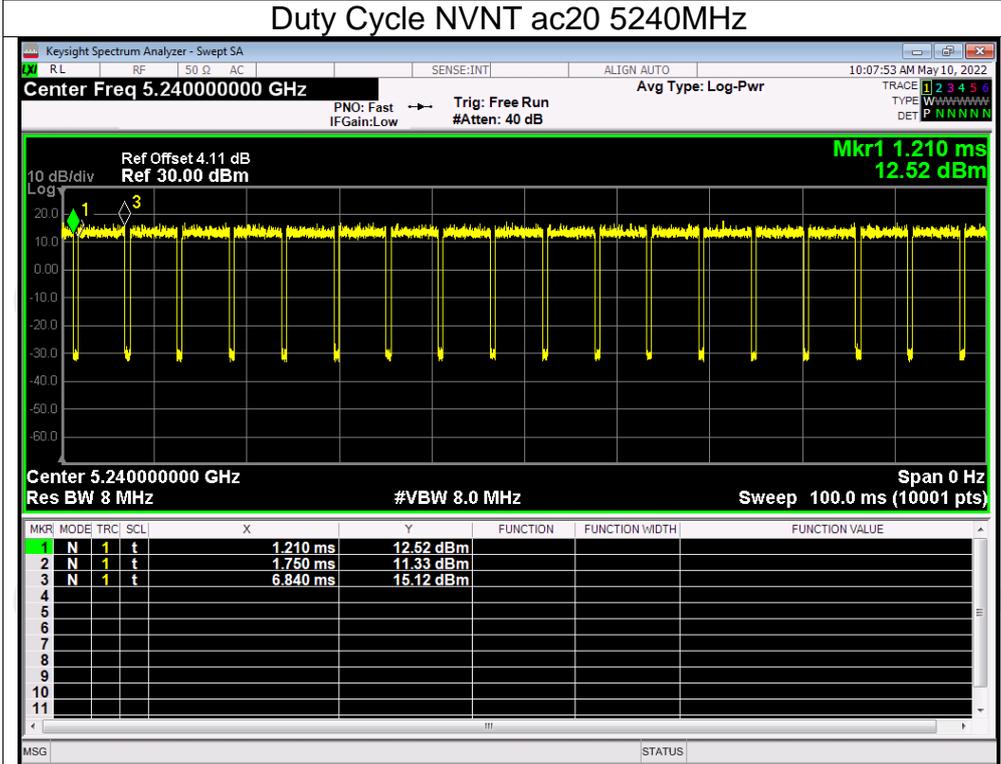
Duty Cycle NVNT ac20 5180MHz



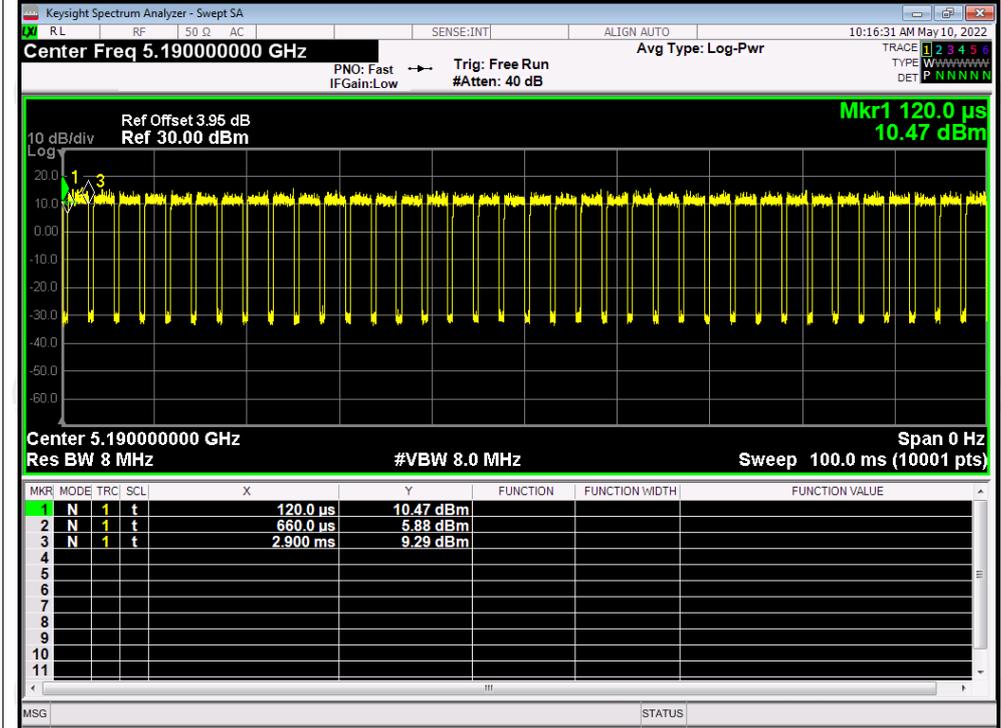
Duty Cycle NVNT ac20 5200MHz



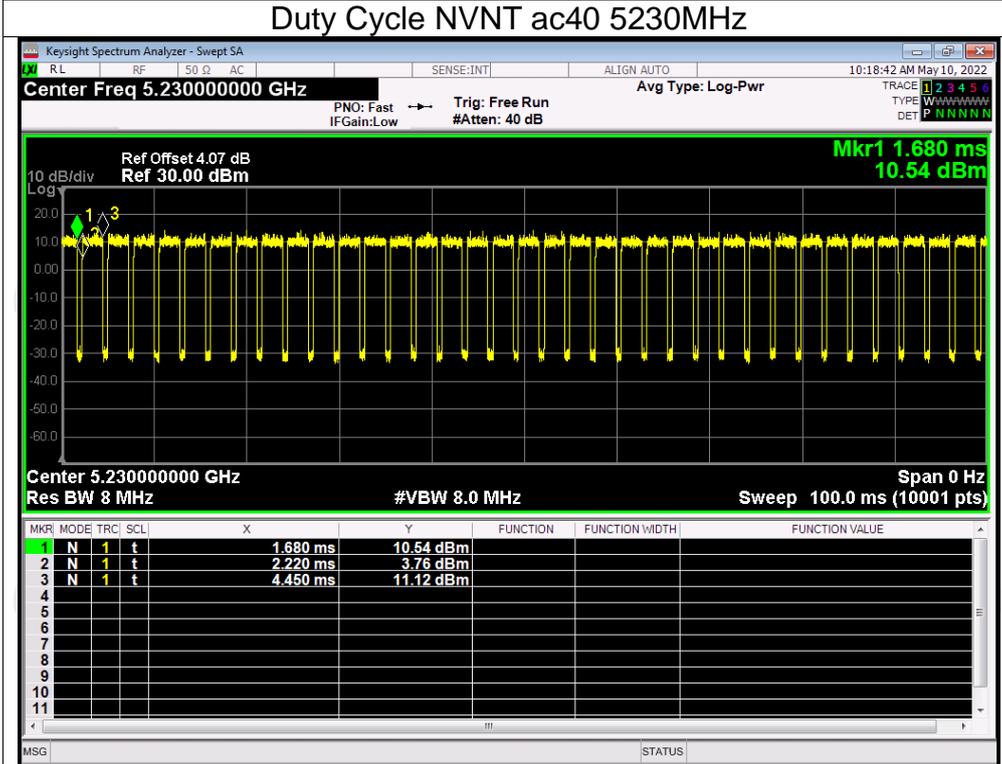
Duty Cycle NVNT ac20 5240MHz



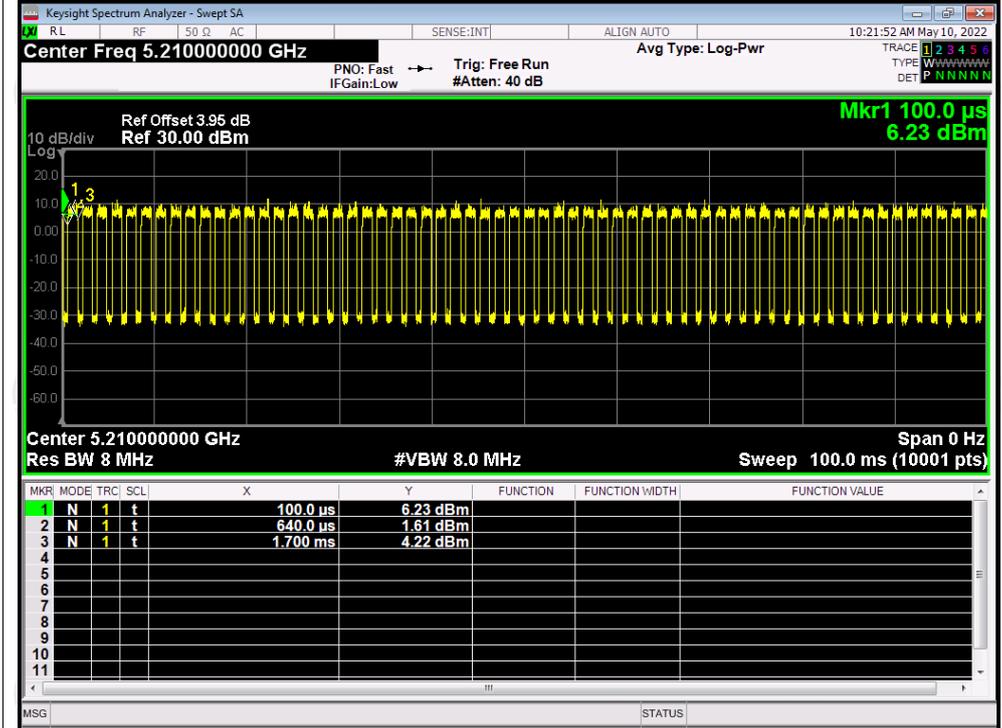
Duty Cycle NVNT ac40 5190MHz



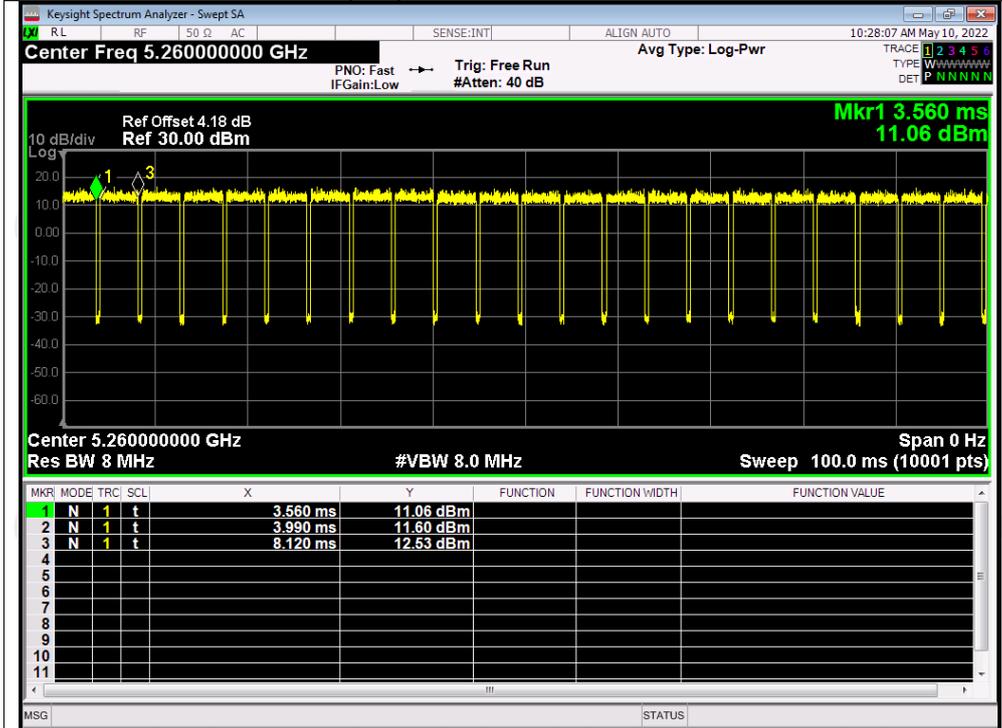
Duty Cycle NVNT ac40 5230MHz



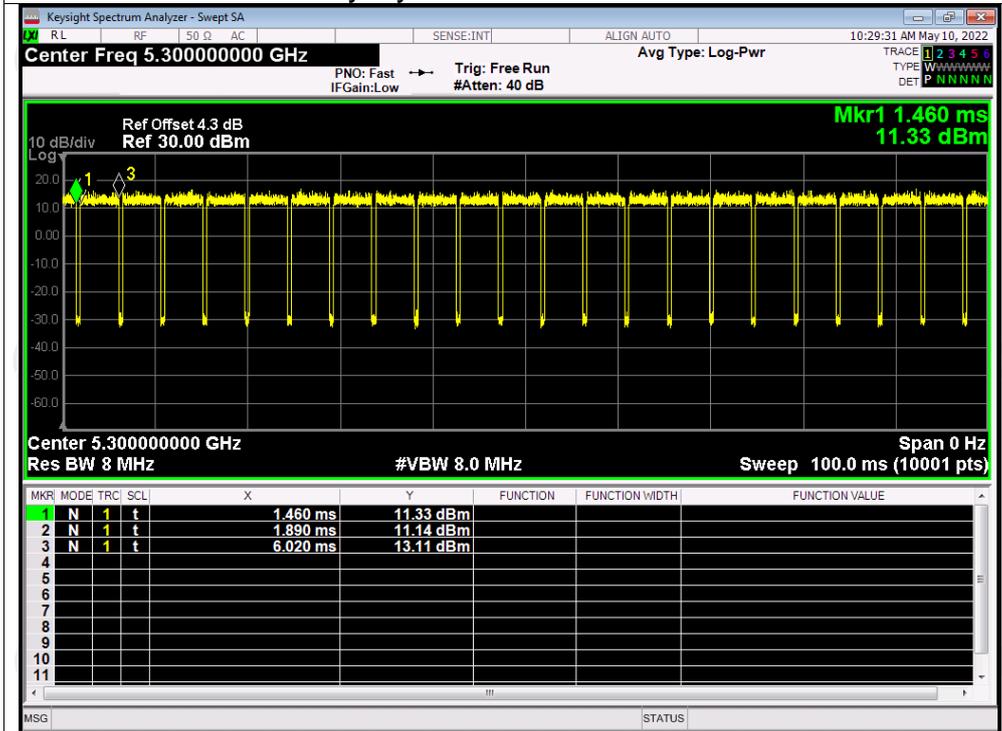
Duty Cycle NVNT ac80 5210MHz



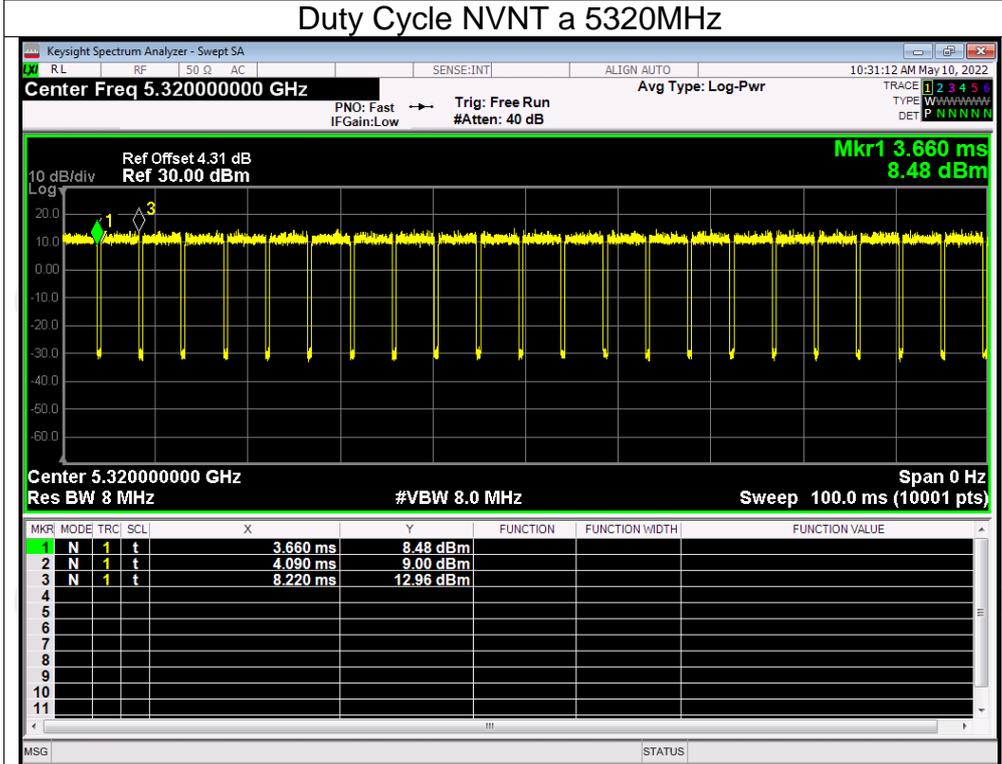
Test Graphs Duty Cycle NVNT a 5260MHz



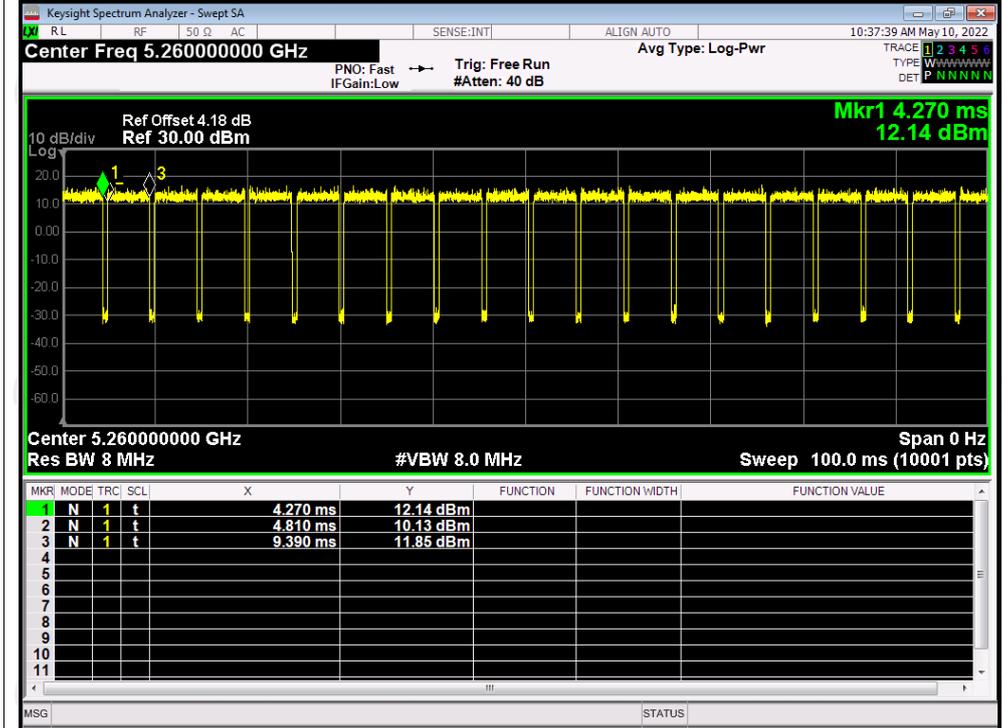
Duty Cycle NVNT a 5300MHz



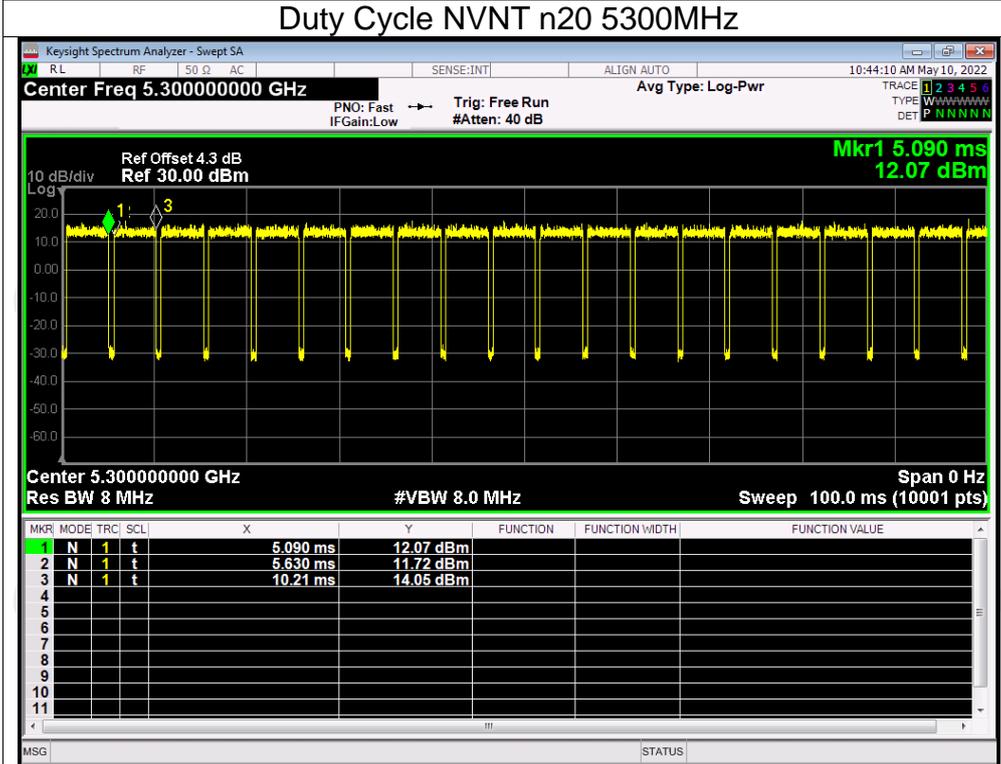
Duty Cycle NVNT a 5320MHz



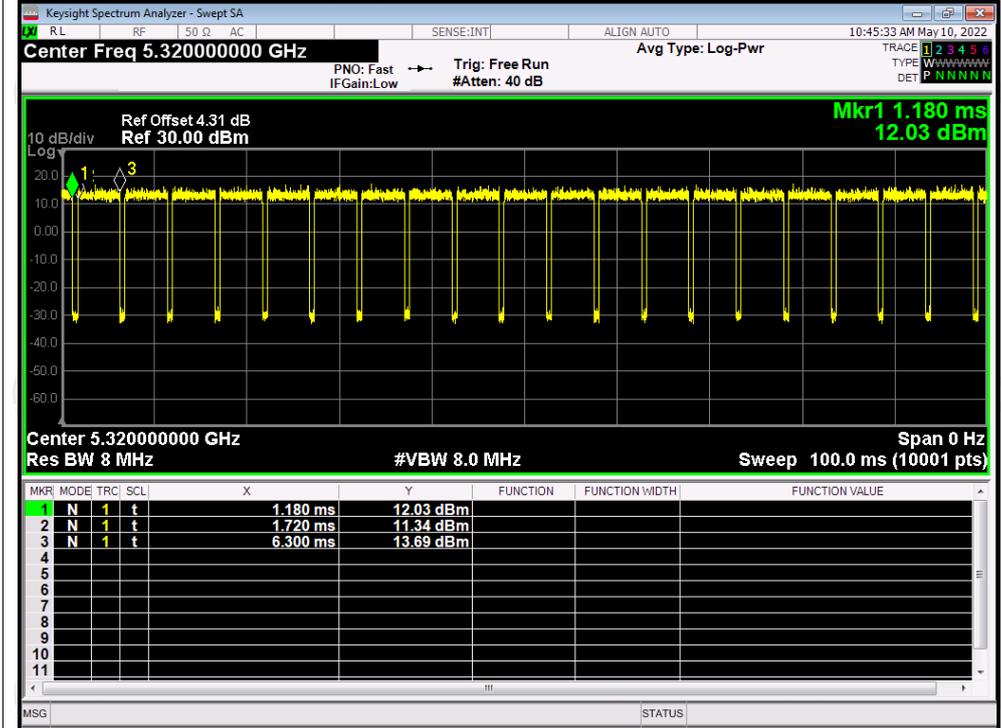
Duty Cycle NVNT n20 5260MHz



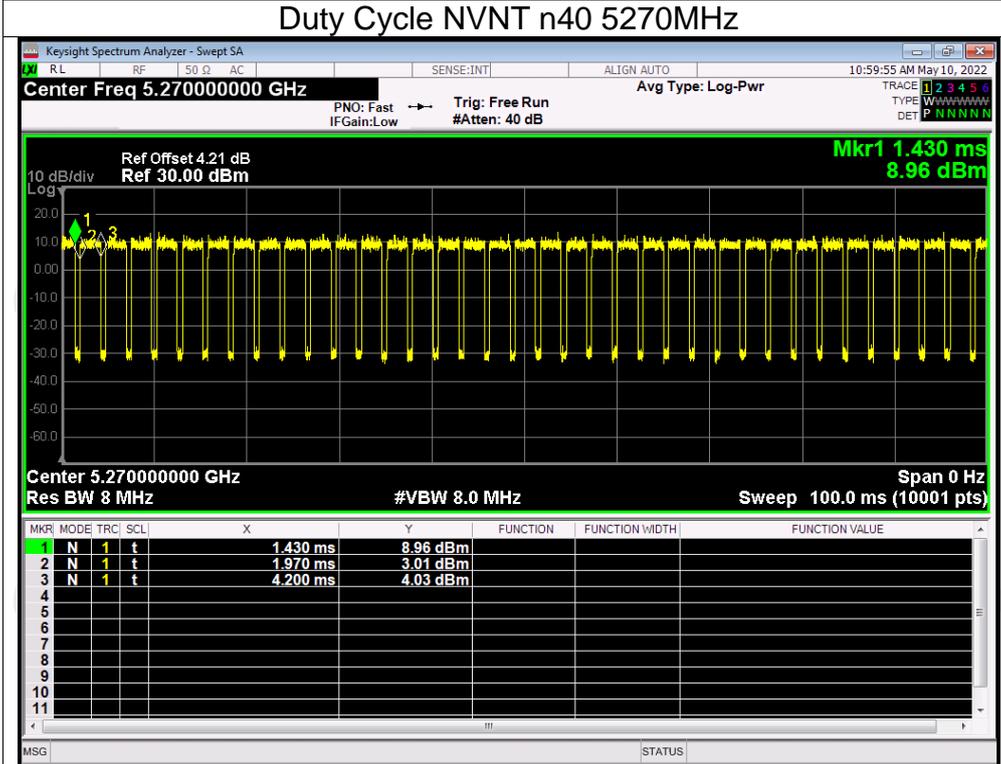
Duty Cycle NVNT n20 5300MHz



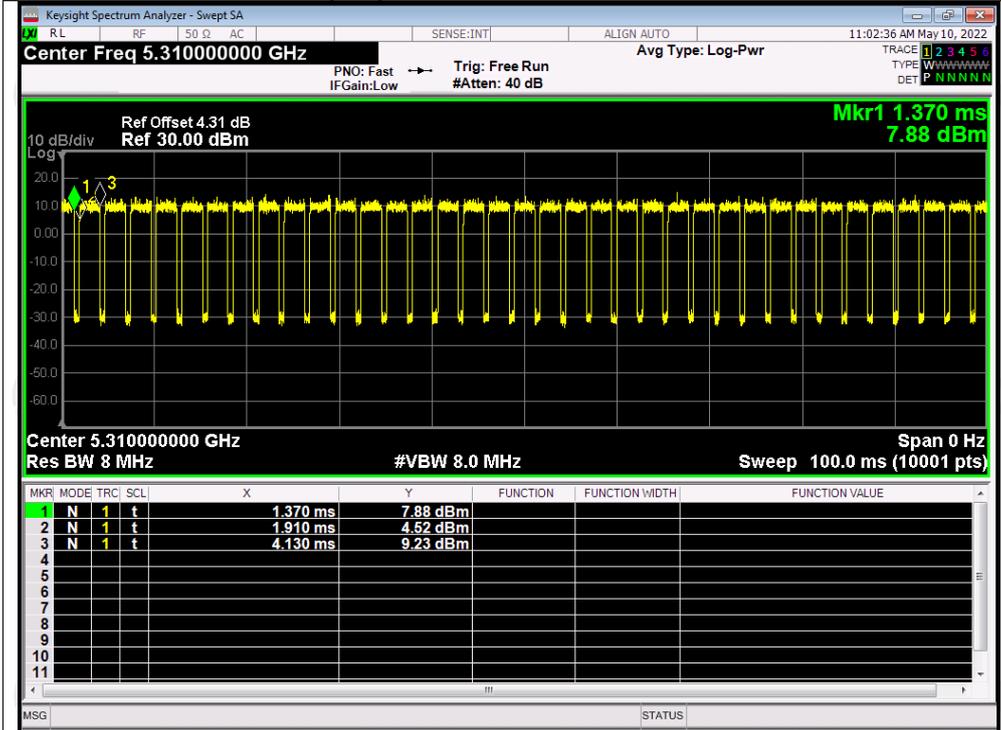
Duty Cycle NVNT n20 5320MHz



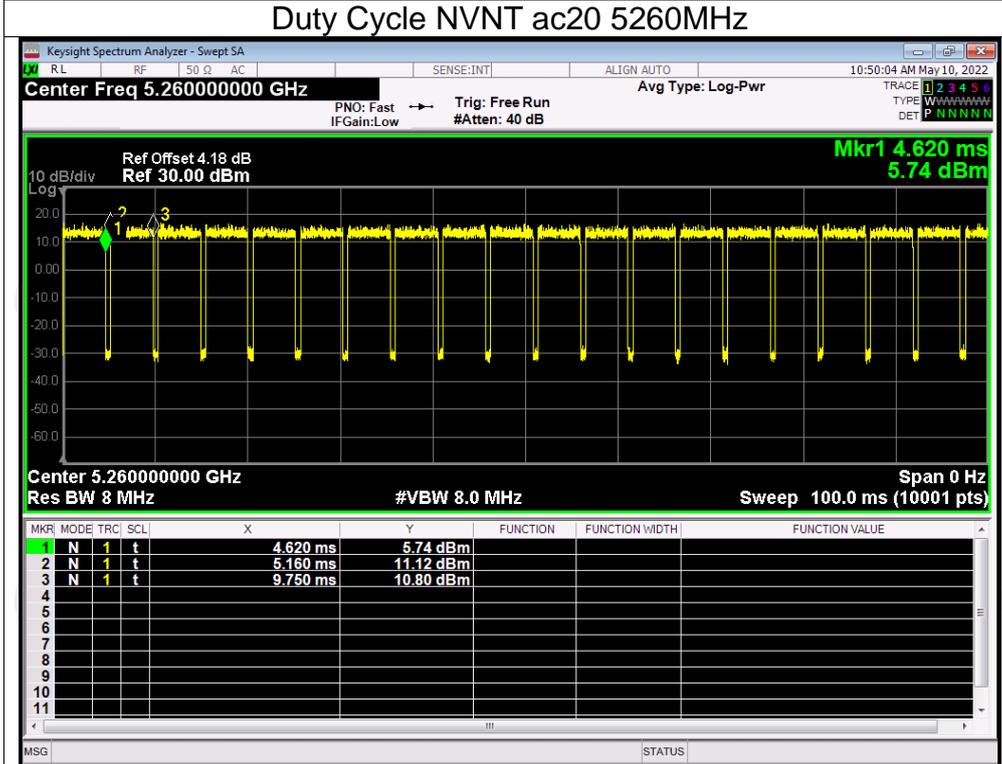
Duty Cycle NVNT n40 5270MHz



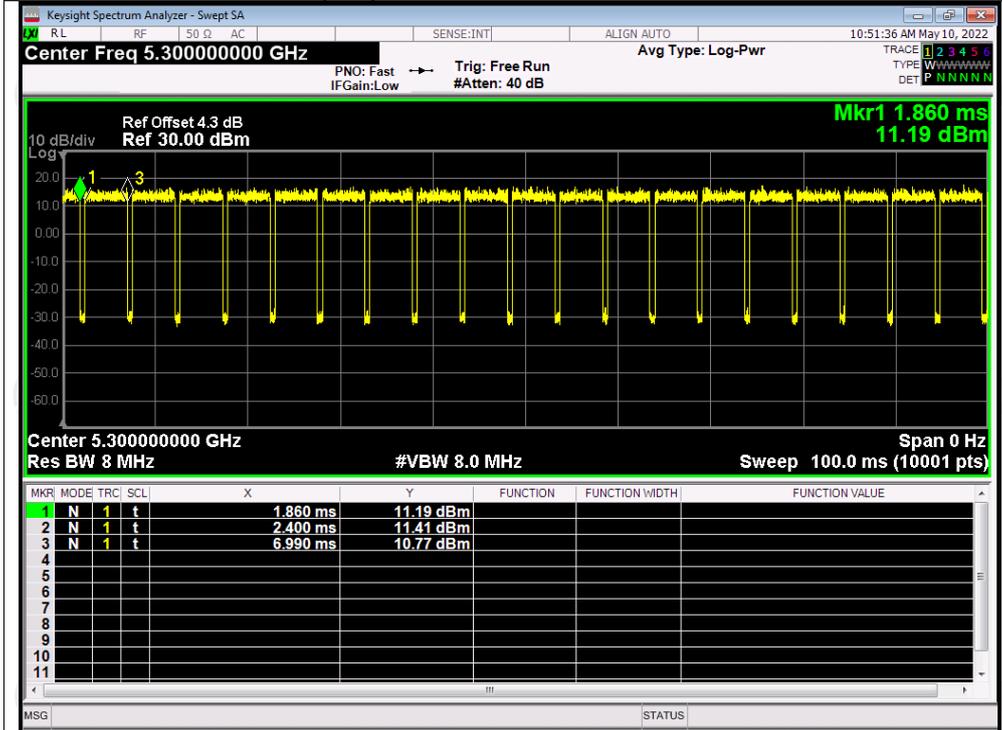
Duty Cycle NVNT n40 5310MHz

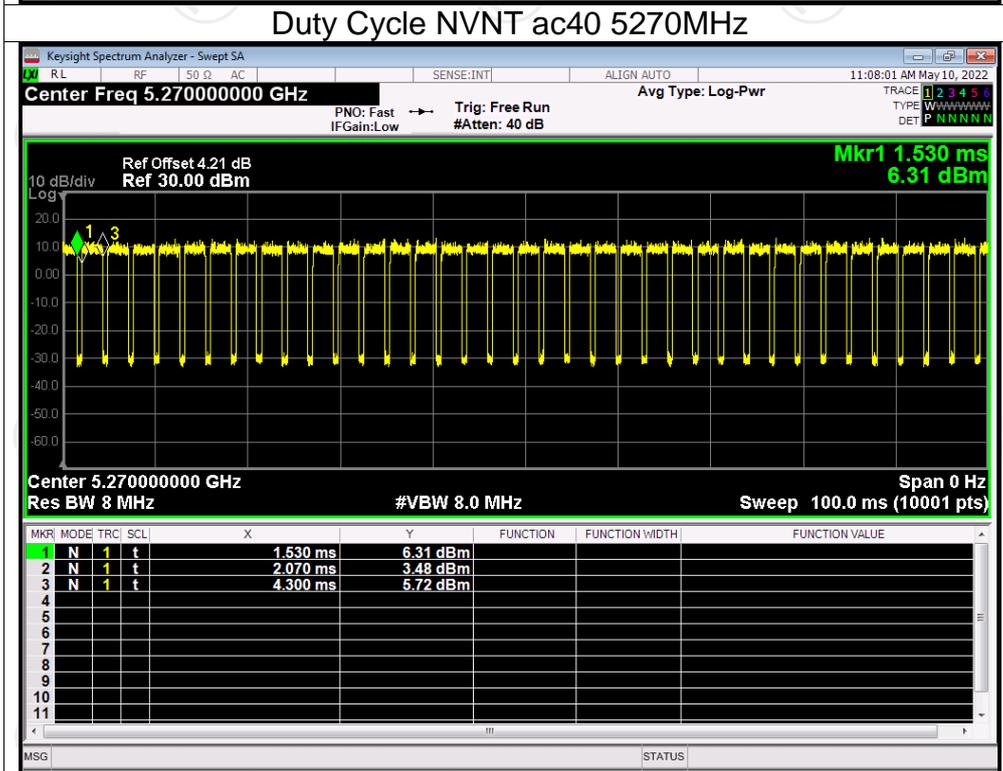
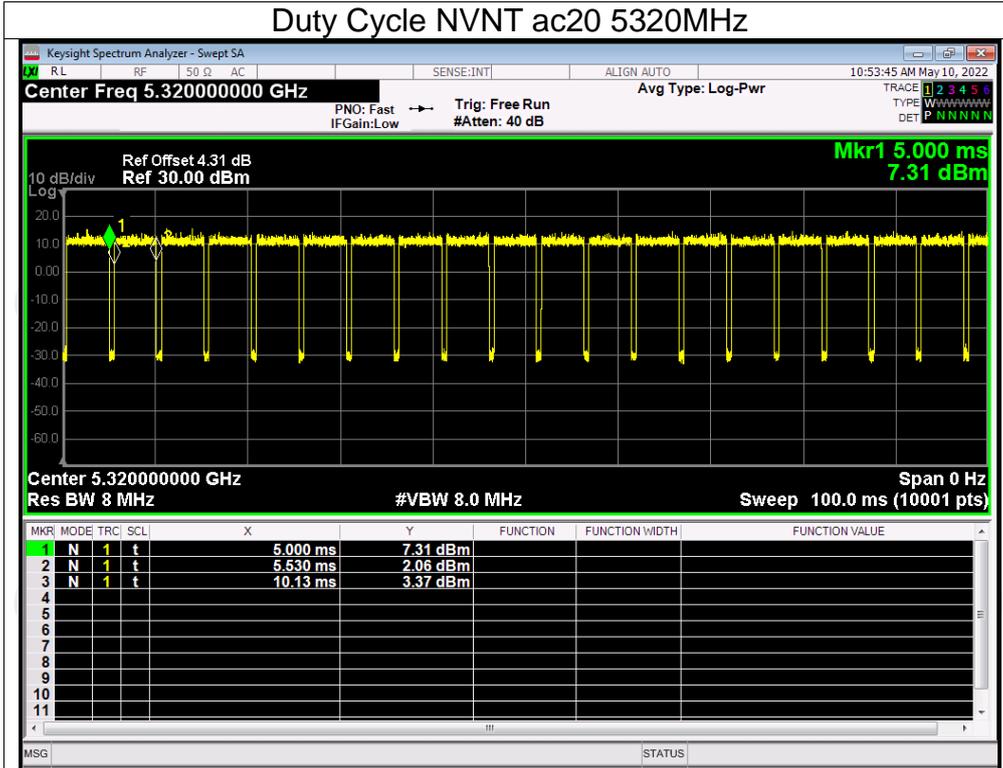


Duty Cycle NVNT ac20 5260MHz

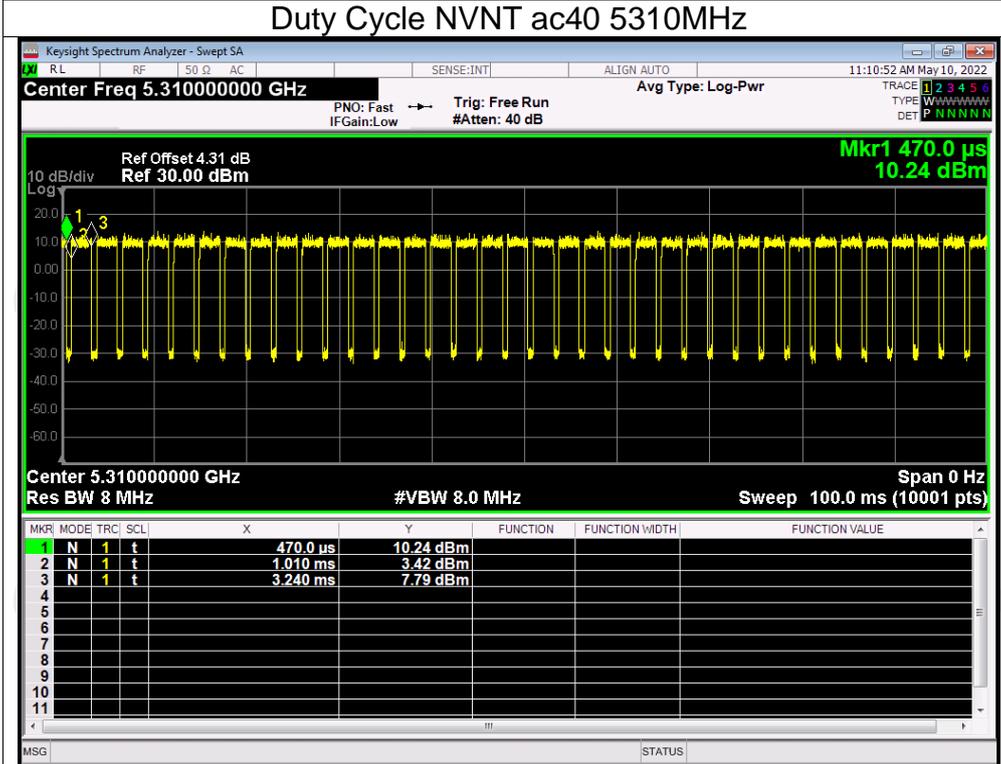


Duty Cycle NVNT ac20 5300MHz

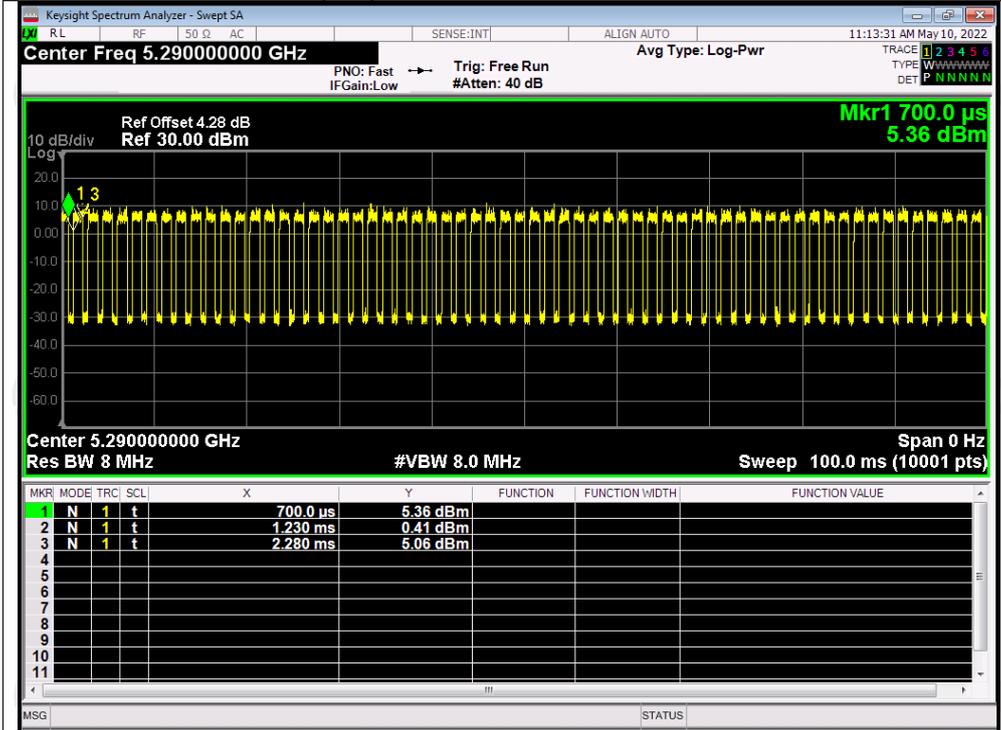




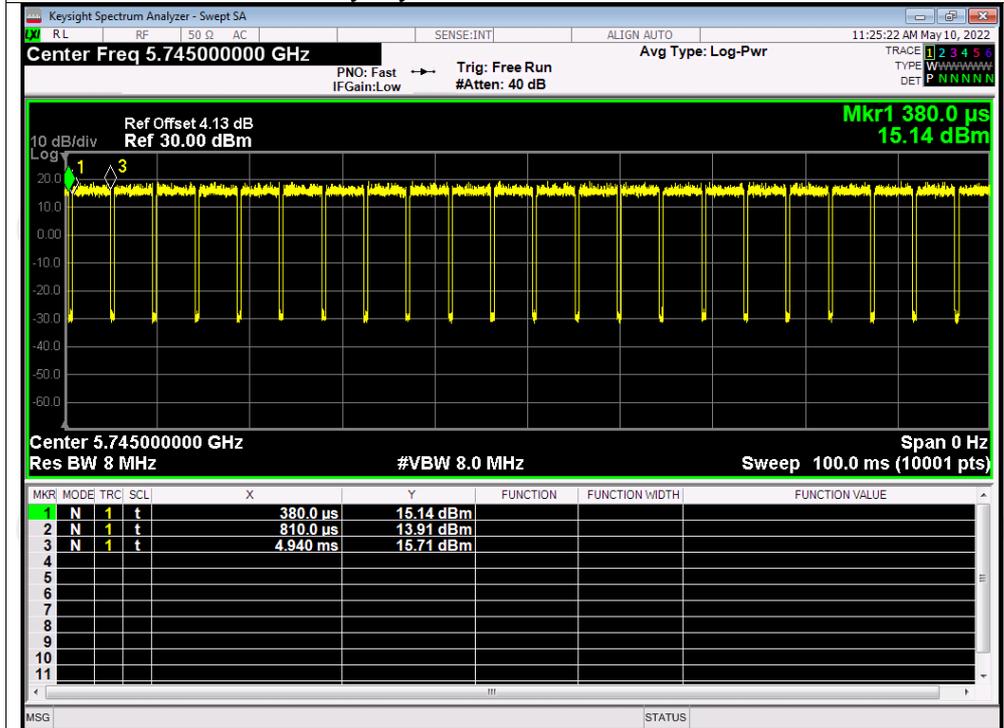
Duty Cycle NVNT ac40 5310MHz



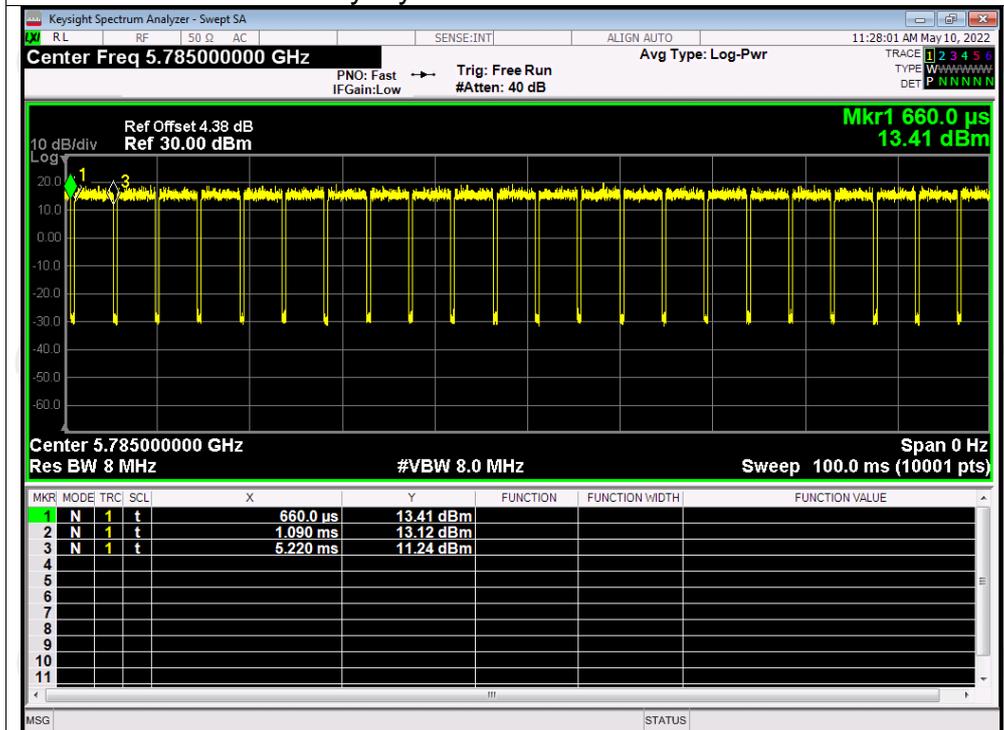
Duty Cycle NVNT ac80 5290MHz



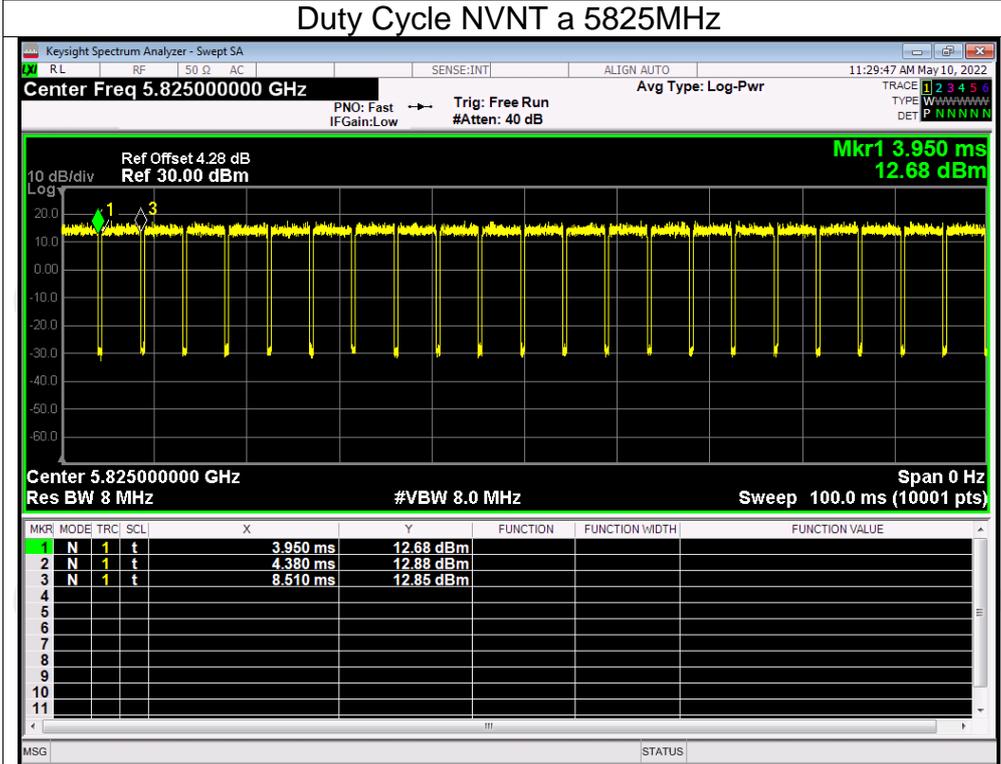
Test Graphs Duty Cycle NVNT a 5745MHz



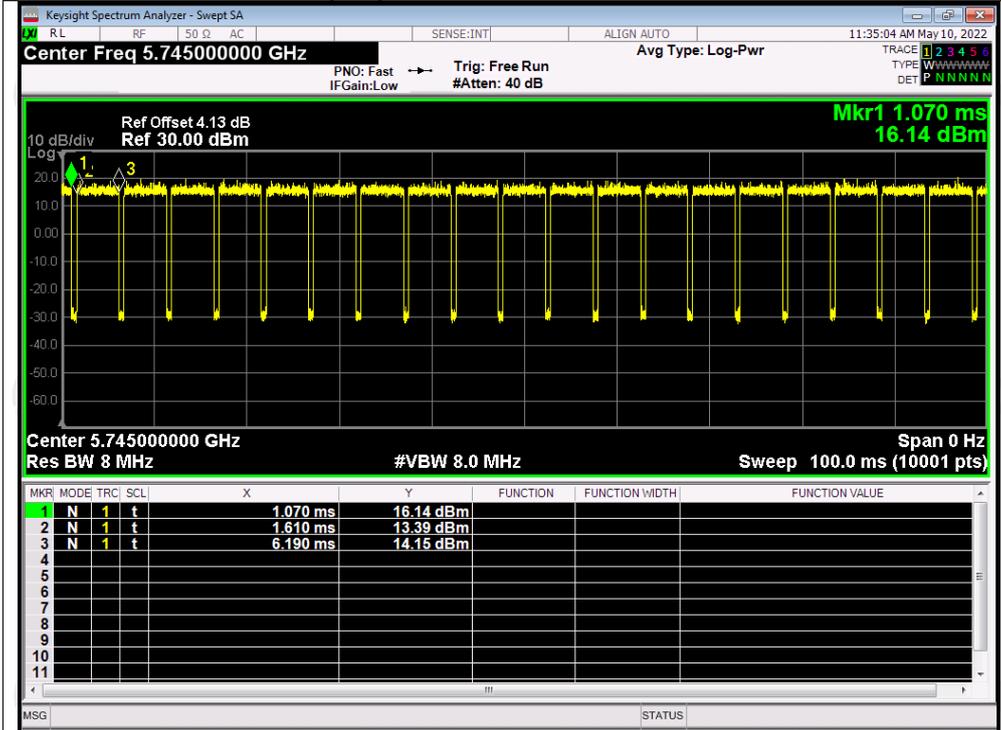
Duty Cycle NVNT a 5785MHz



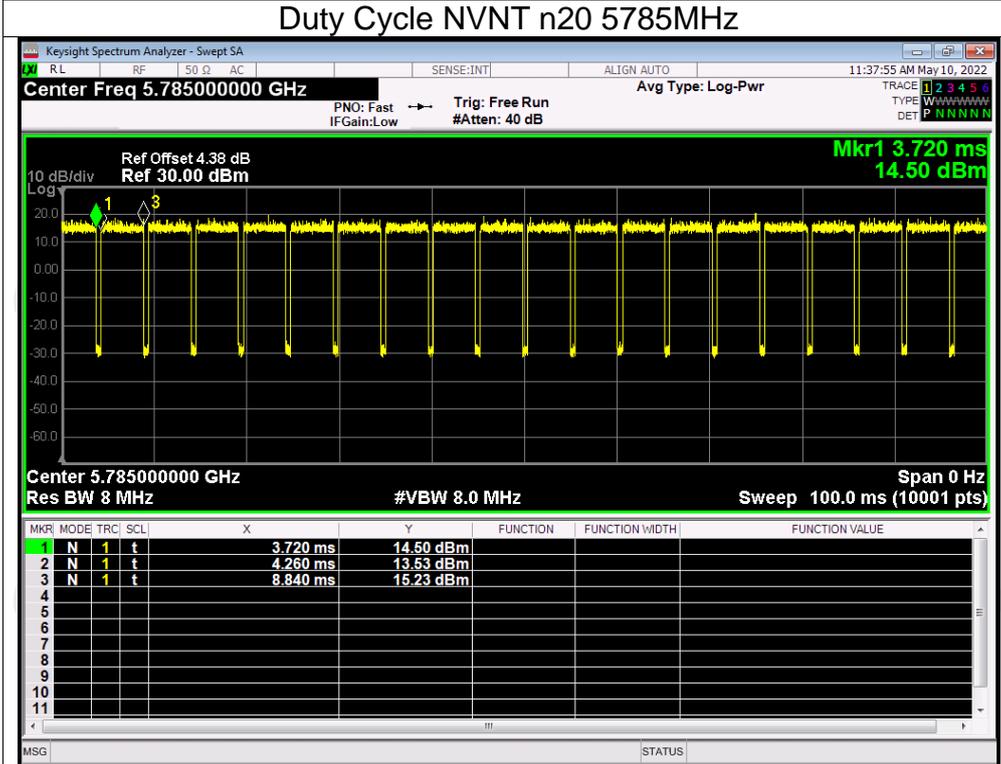
Duty Cycle NVNT a 5825MHz



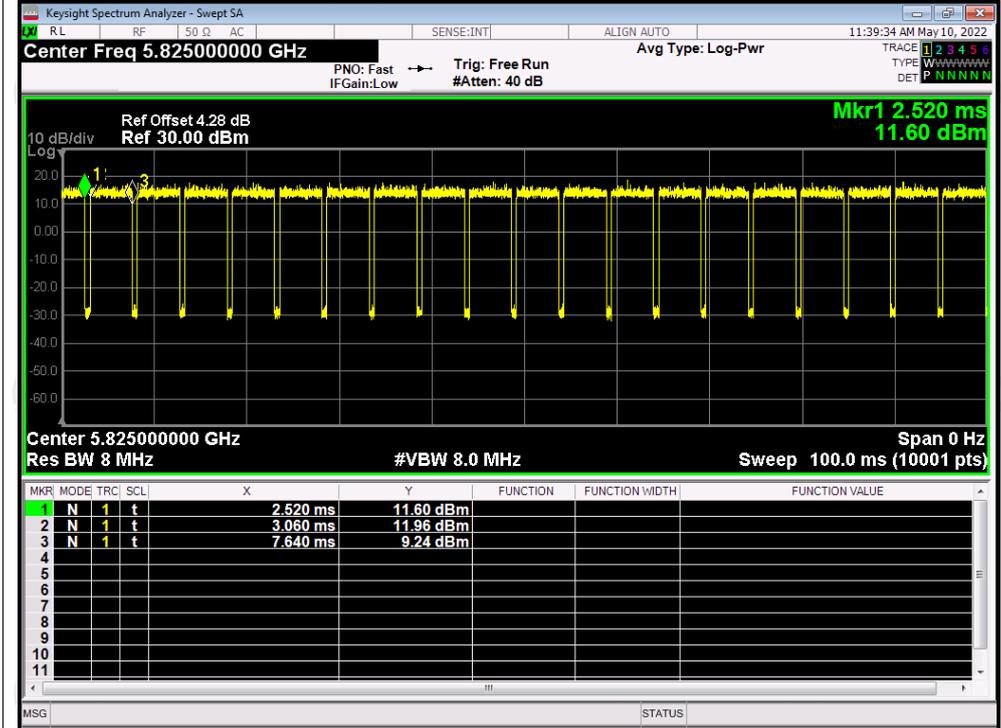
Duty Cycle NVNT n20 5745MHz



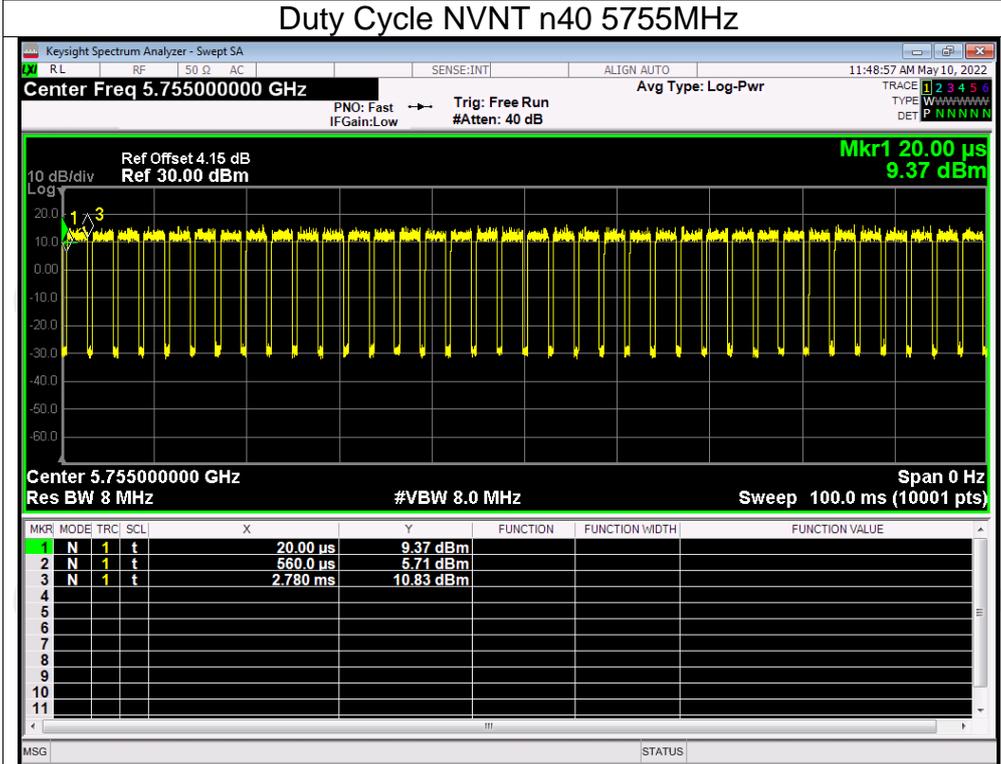
Duty Cycle NVNT n20 5785MHz



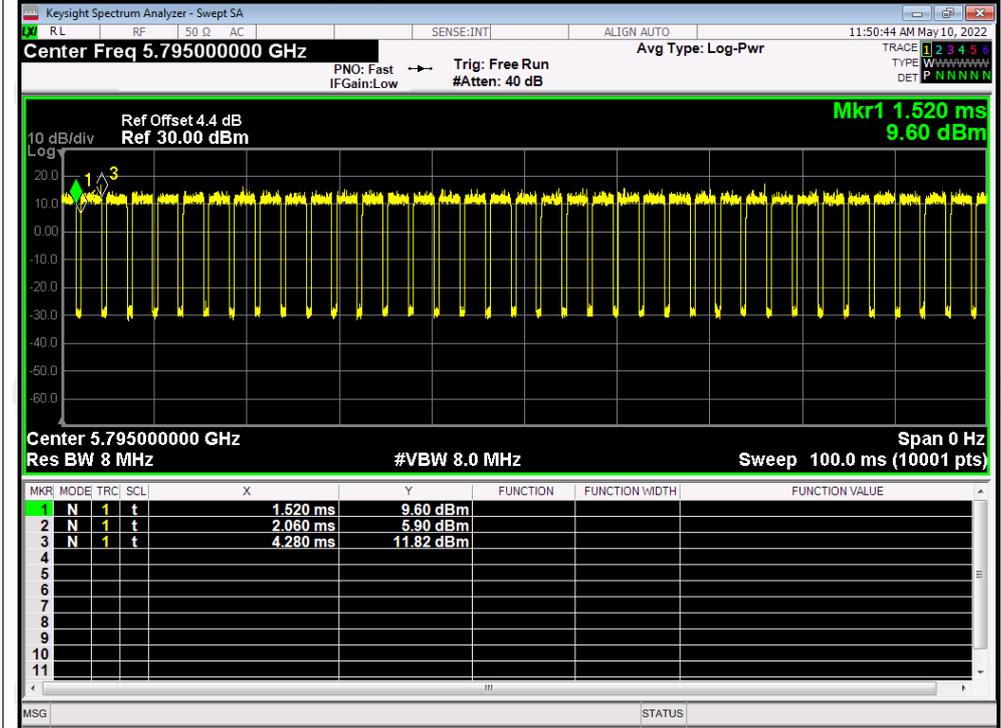
Duty Cycle NVNT n20 5825MHz



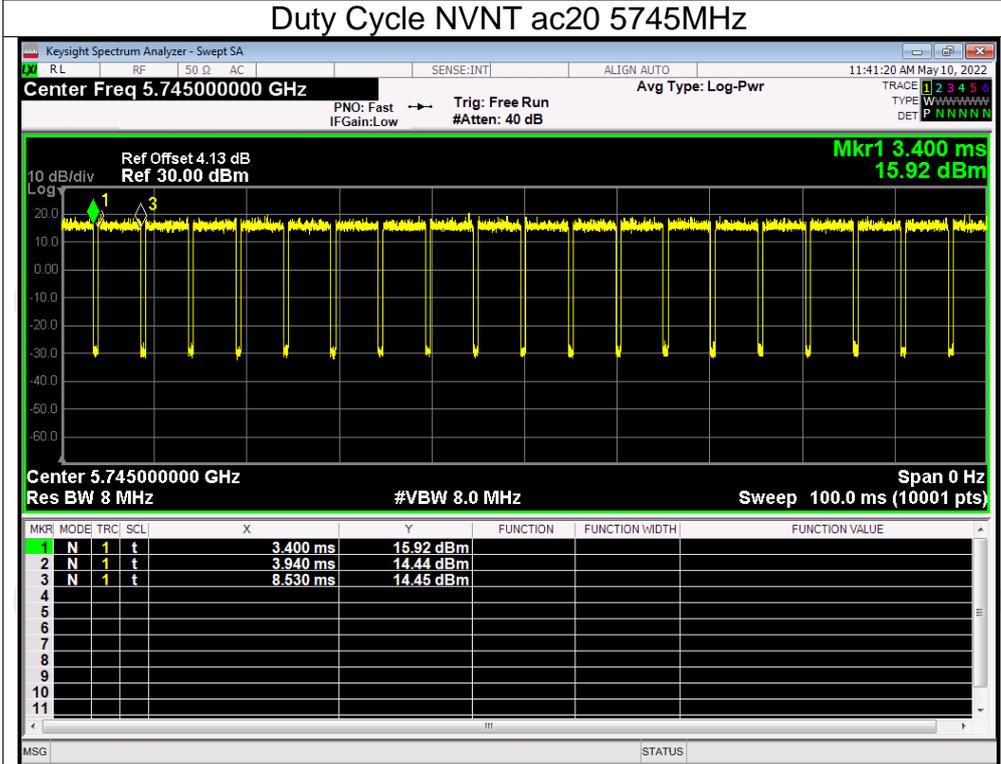
Duty Cycle NVNT n40 5755MHz



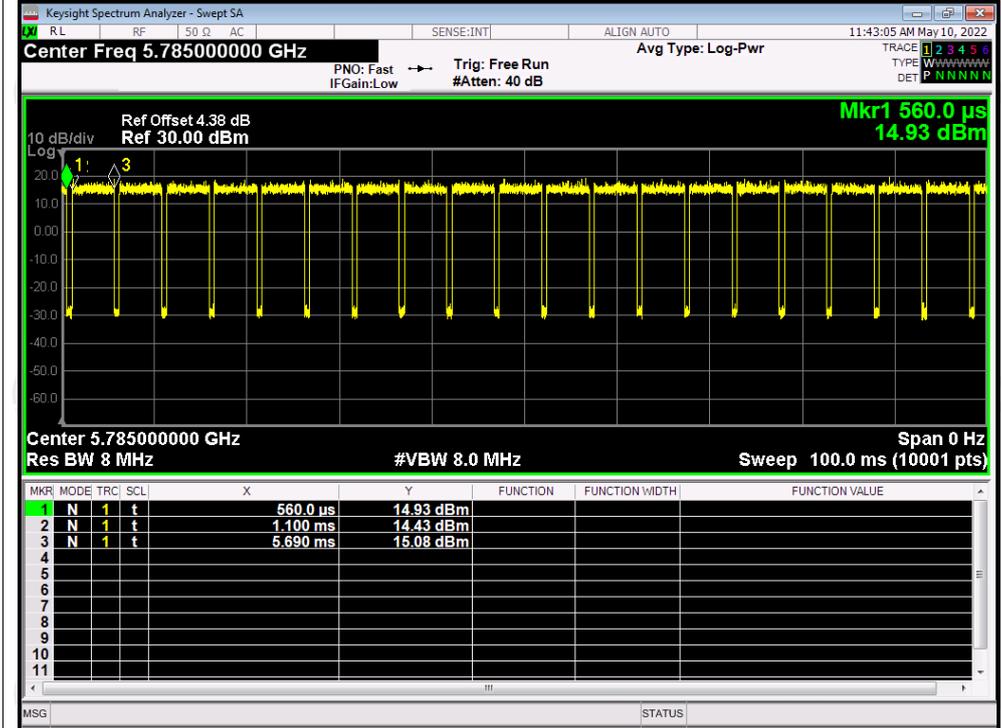
Duty Cycle NVNT n40 5795MHz



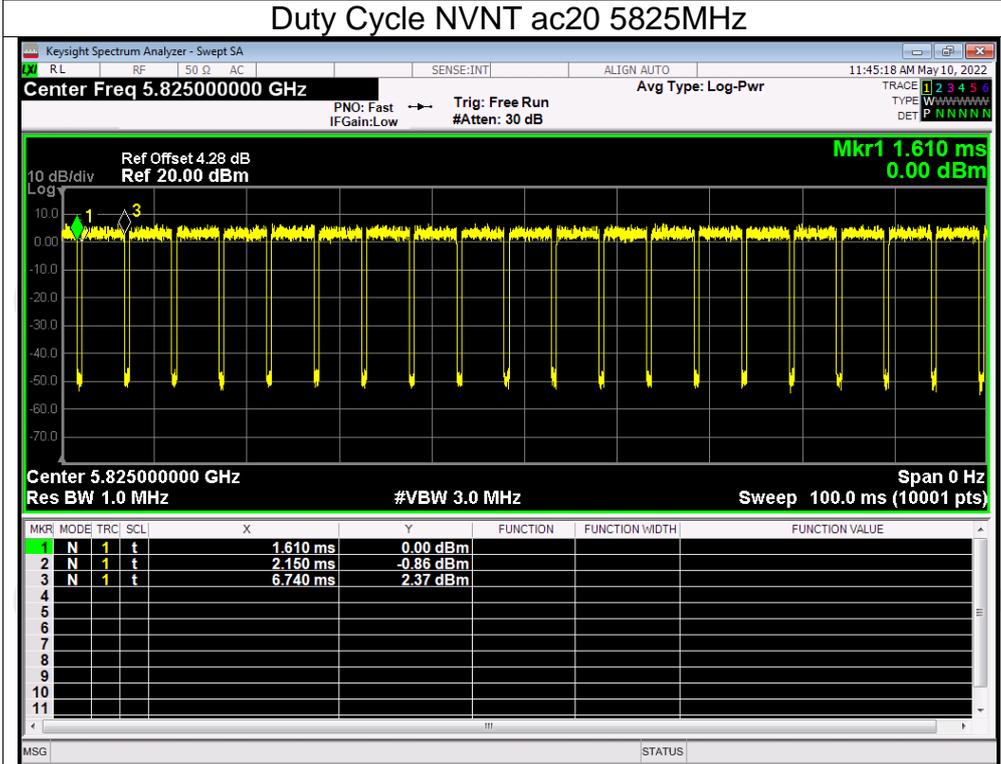
Duty Cycle NVNT ac20 5745MHz



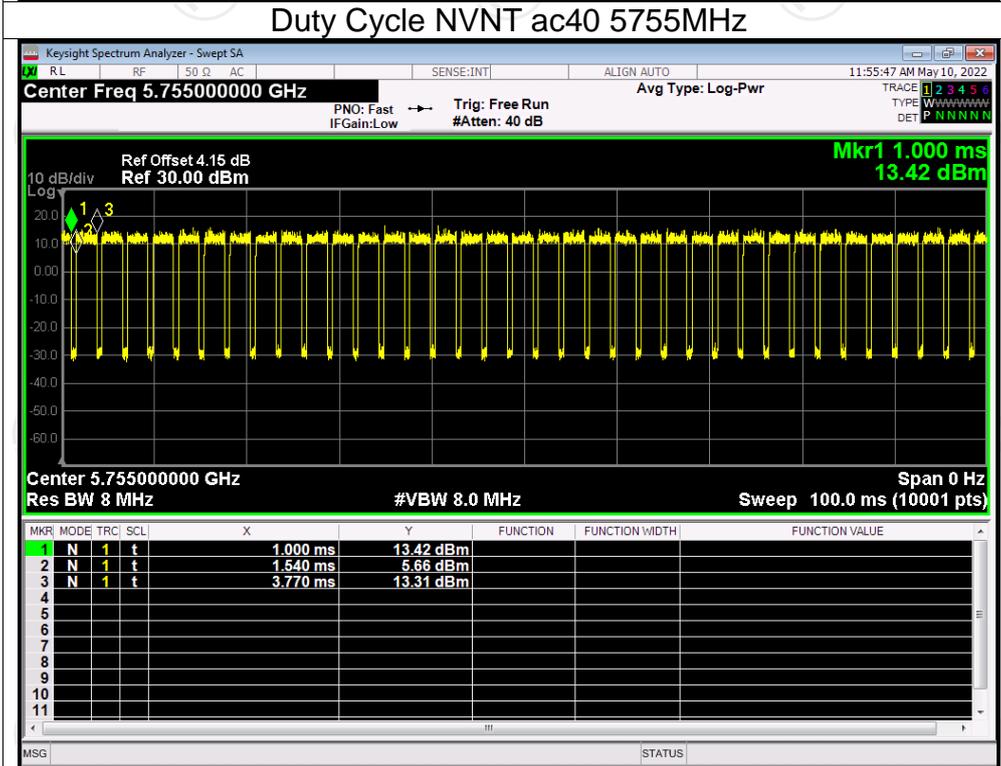
Duty Cycle NVNT ac20 5785MHz



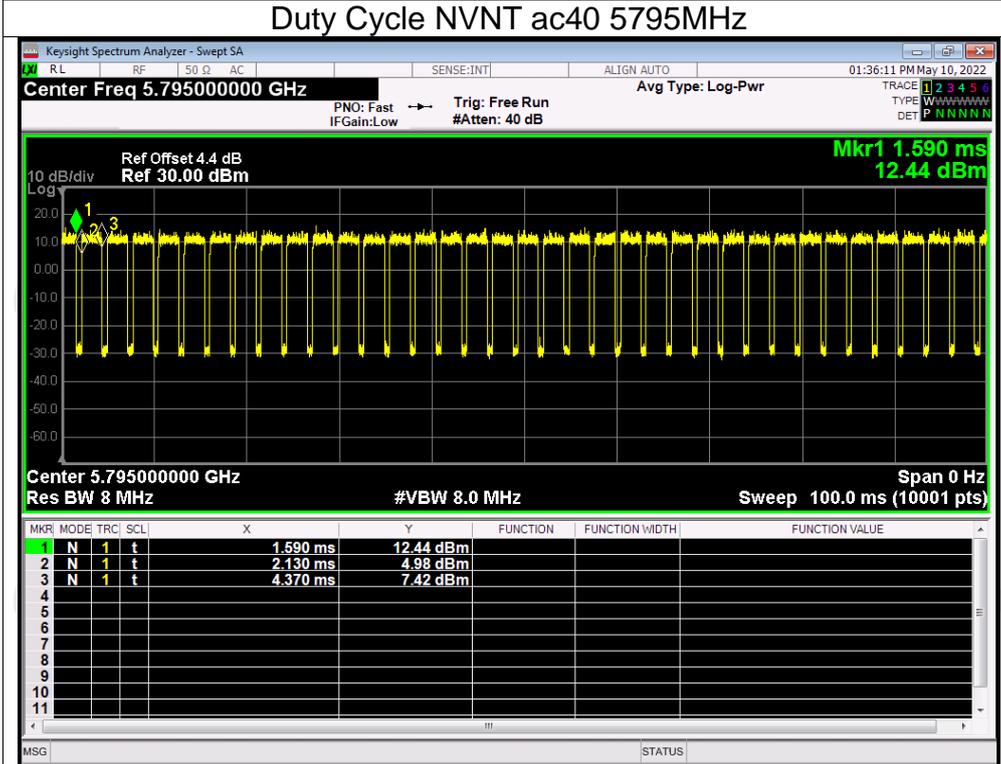
Duty Cycle NVNT ac20 5825MHz



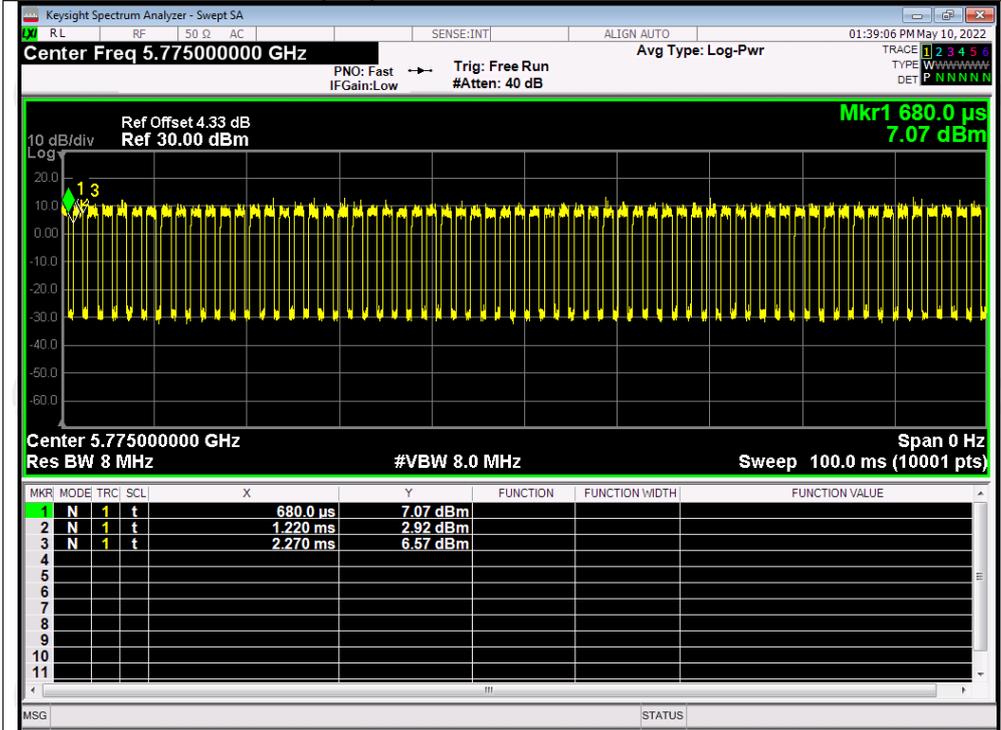
Duty Cycle NVNT ac40 5755MHz



Duty Cycle NVNT ac40 5795MHz



Duty Cycle NVNT ac80 5775MHz

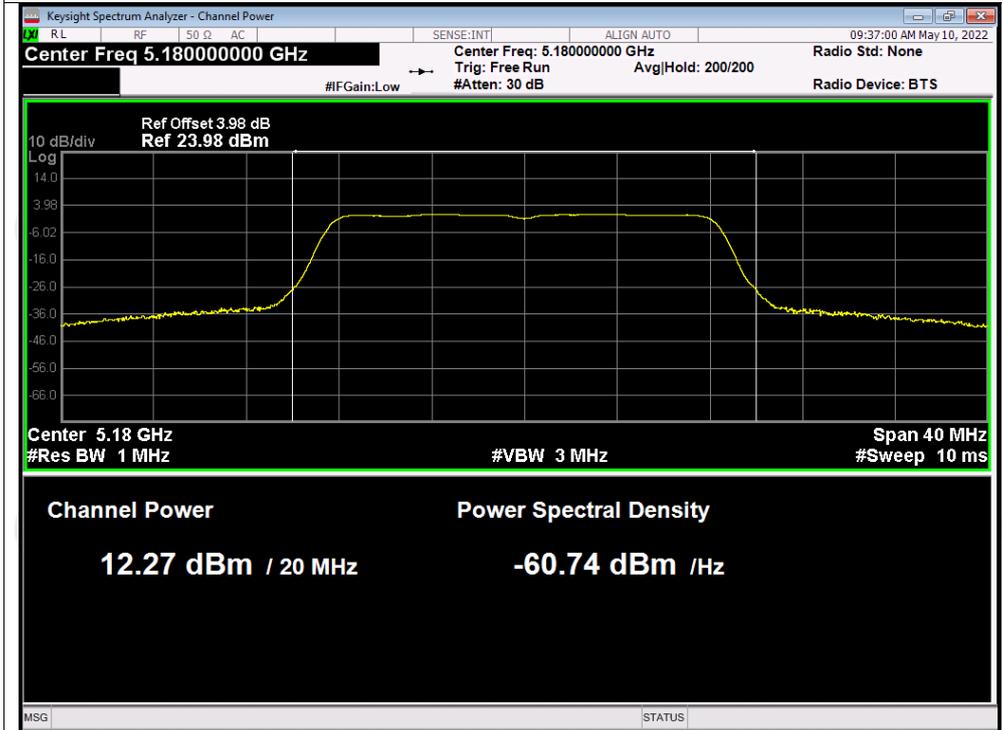


Maximum Conducted Output Power

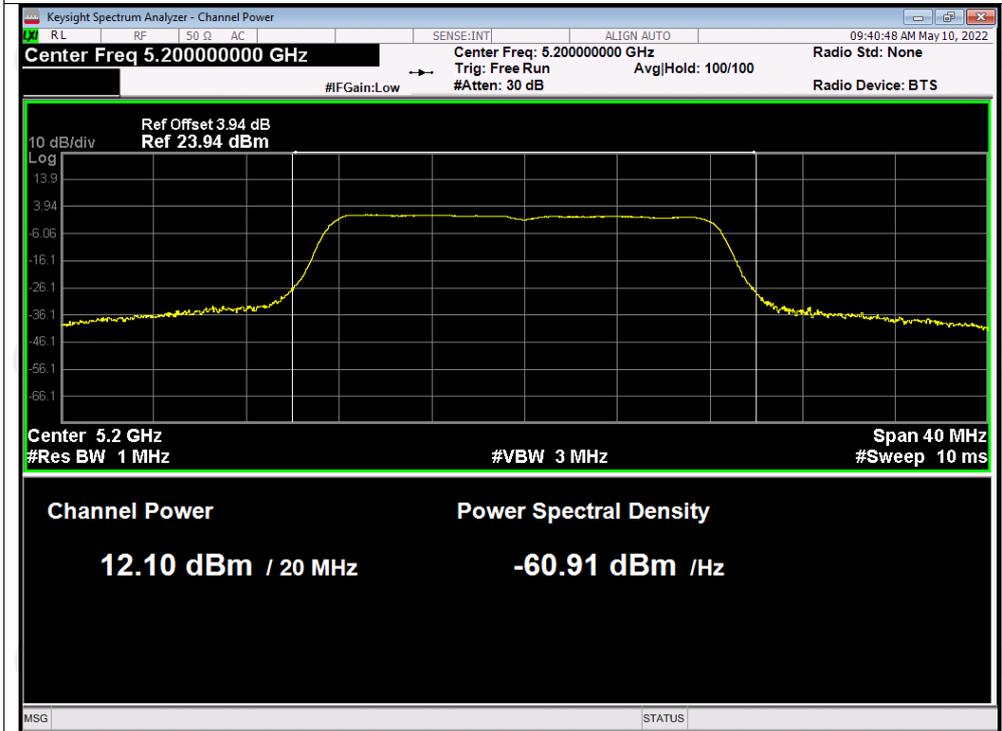
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	12.27	0.42	12.69	24	Pass
NVNT	a	5200	12.10	0.42	12.52	24	Pass
NVNT	a	5240	10.73	0.42	11.15	24	Pass
NVNT	n20	5180	11.99	0.43	12.42	24	Pass
NVNT	n20	5200	11.41	0.44	11.85	24	Pass
NVNT	n20	5240	10.27	0.43	10.70	24	Pass
NVNT	n40	5190	10.92	0.92	11.84	24	Pass
NVNT	n40	5230	9.65	0.92	10.57	24	Pass
NVNT	ac20	5180	12.03	0.44	12.47	24	Pass
NVNT	ac20	5200	11.61	0.44	12.05	24	Pass
NVNT	ac20	5240	10.11	0.44	10.55	24	Pass
NVNT	ac40	5190	10.98	0.92	11.90	24	Pass
NVNT	ac40	5230	9.78	0.92	10.70	24	Pass
NVNT	ac80	5210	9.82	1.76	11.58	24	Pass
NVNT	a	5260	9.39	0.42	9.81	24	Pass
NVNT	a	5300	9.53	0.42	9.95	24	Pass
NVNT	a	5320	9.99	0.42	10.41	24	Pass
NVNT	n20	5260	9.20	0.46	9.66	24	Pass
NVNT	n20	5300	9.41	0.46	9.87	24	Pass
NVNT	n20	5320	9.76	0.49	10.25	24	Pass
NVNT	n40	5270	8.78	0.92	9.70	24	Pass
NVNT	n40	5310	9.31	0.92	10.23	24	Pass
NVNT	ac20	5260	9.78	0.46	10.24	24	Pass
NVNT	ac20	5300	9.93	0.49	10.42	24	Pass
NVNT	ac20	5320	9.48	0.47	9.95	24	Pass
NVNT	ac40	5270	8.78	0.92	9.70	24	Pass
NVNT	ac40	5310	9.36	0.92	10.28	24	Pass
NVNT	ac80	5290	8.37	1.76	10.13	24	Pass
NVNT	a	5745	12.10	0.42	12.52	30	Pass
NVNT	a	5785	11.85	0.42	12.27	30	Pass
NVNT	a	5825	10.75	0.41	11.16	30	Pass
NVNT	n20	5745	12	0.49	12.49	30	Pass
NVNT	n20	5785	11.83	0.46	12.29	30	Pass
NVNT	n20	5825	10.79	0.47	11.26	30	Pass
NVNT	n40	5755	11.76	0.94	12.70	30	Pass
NVNT	n40	5795	11.30	0.92	12.22	30	Pass
NVNT	ac20	5745	12.25	0.46	12.71	30	Pass
NVNT	ac20	5785	12.02	0.49	12.51	30	Pass
NVNT	ac20	5825	10.93	0.49	11.42	30	Pass
NVNT	ac40	5755	11.74	0.92	12.66	30	Pass
NVNT	ac40	5795	11.24	0.92	12.16	30	Pass
NVNT	ac80	5775	10.38	1.76	12.14	30	Pass

Test Graphs

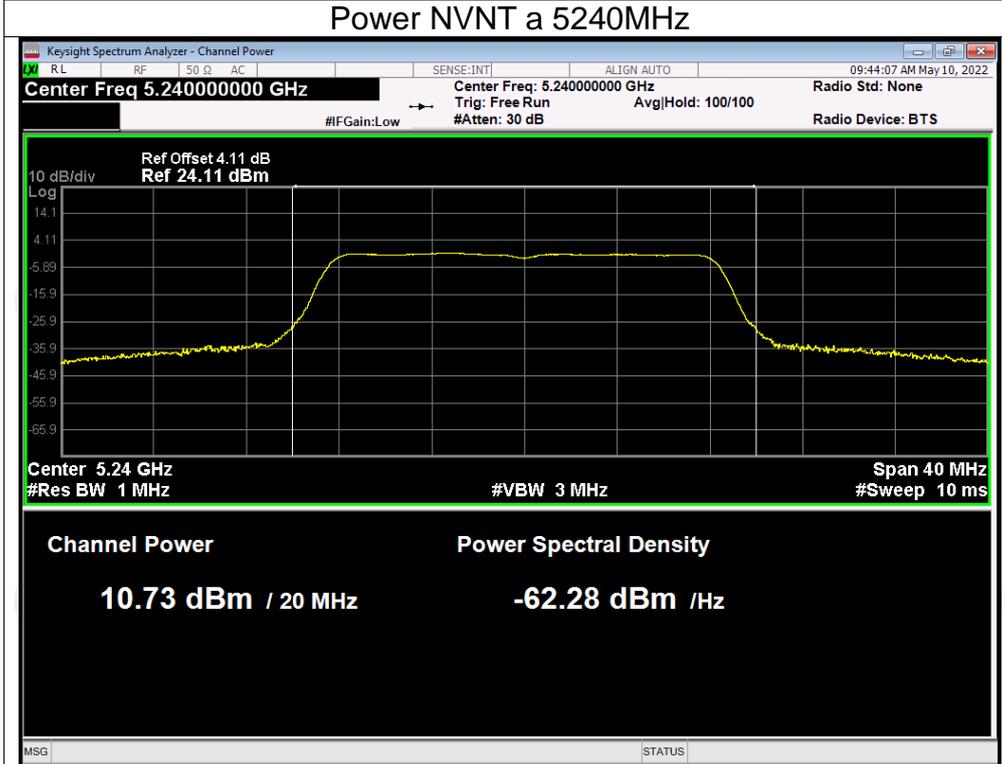
Power NVNT a 5180MHz



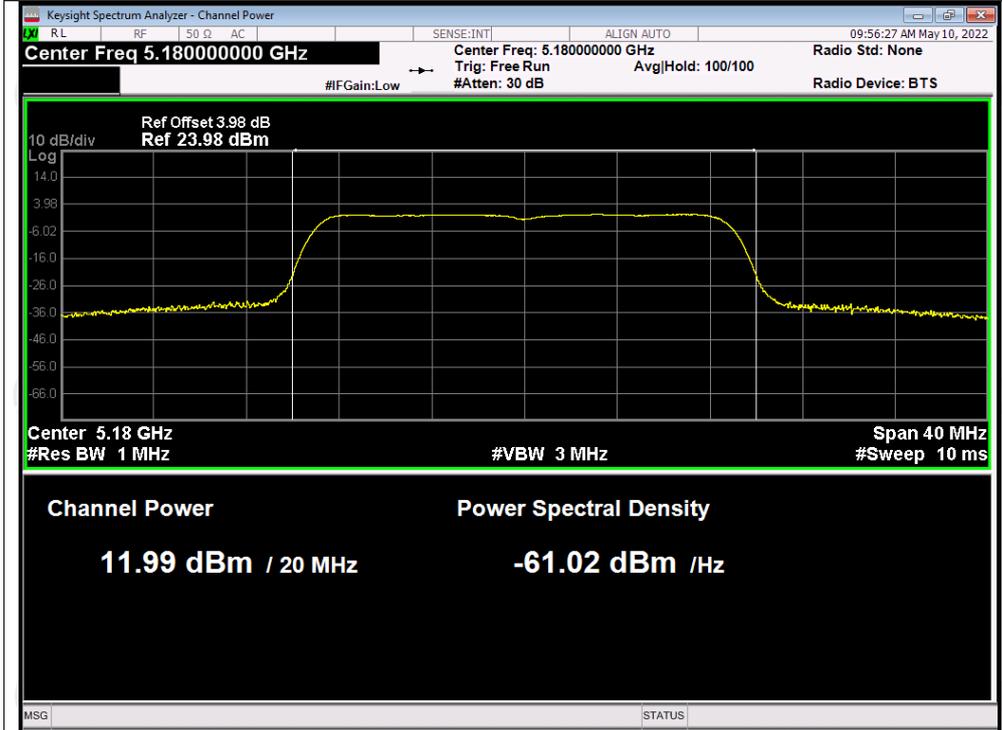
Power NVNT a 5200MHz



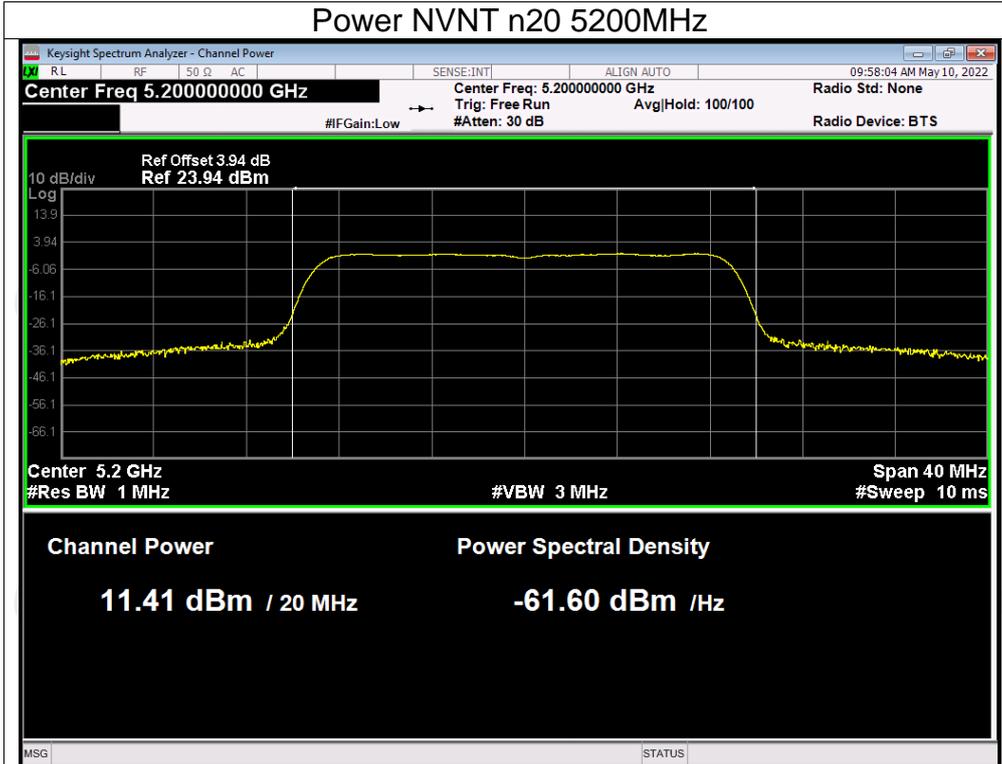
Power NVNT a 5240MHz



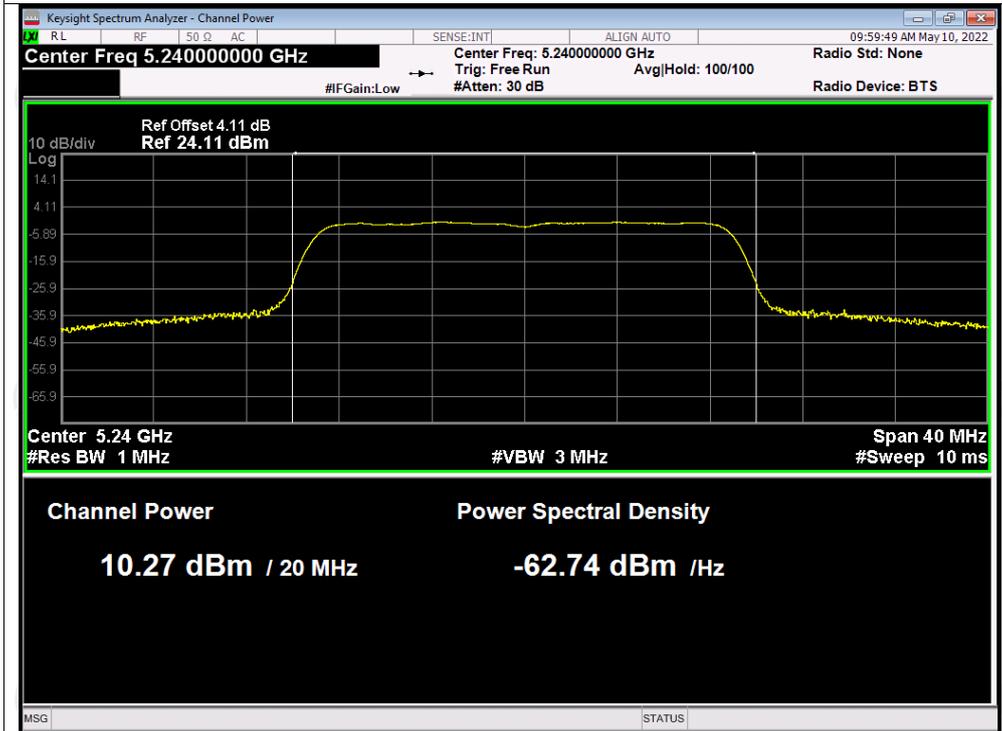
Power NVNT n20 5180MHz



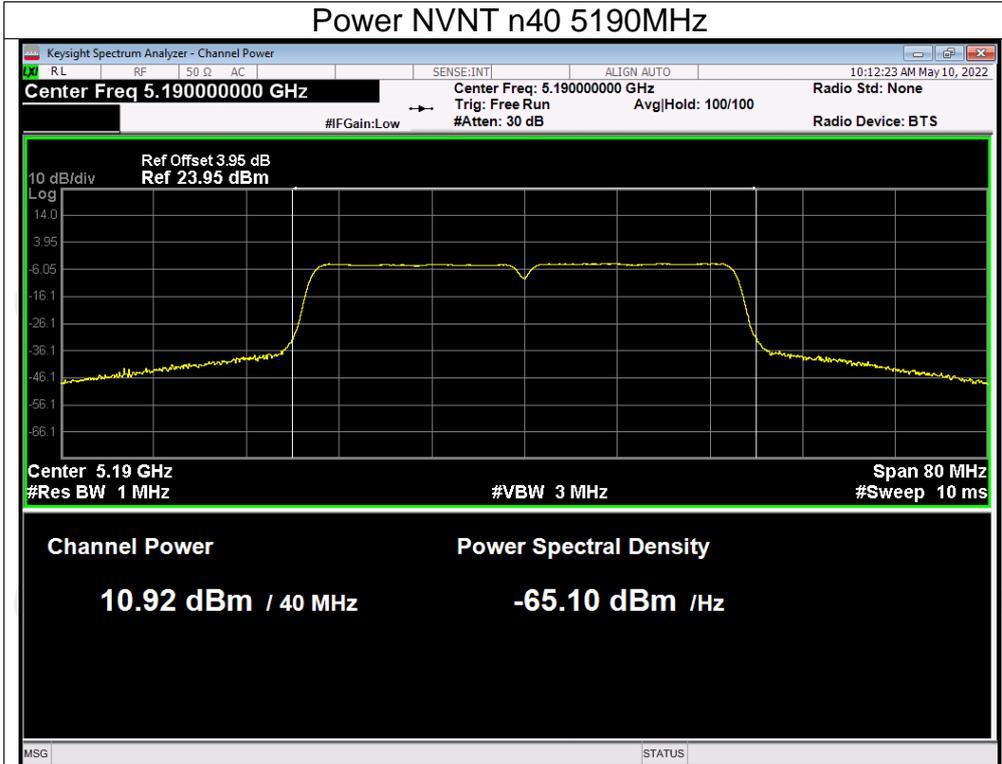
Power NVNT n20 5200MHz



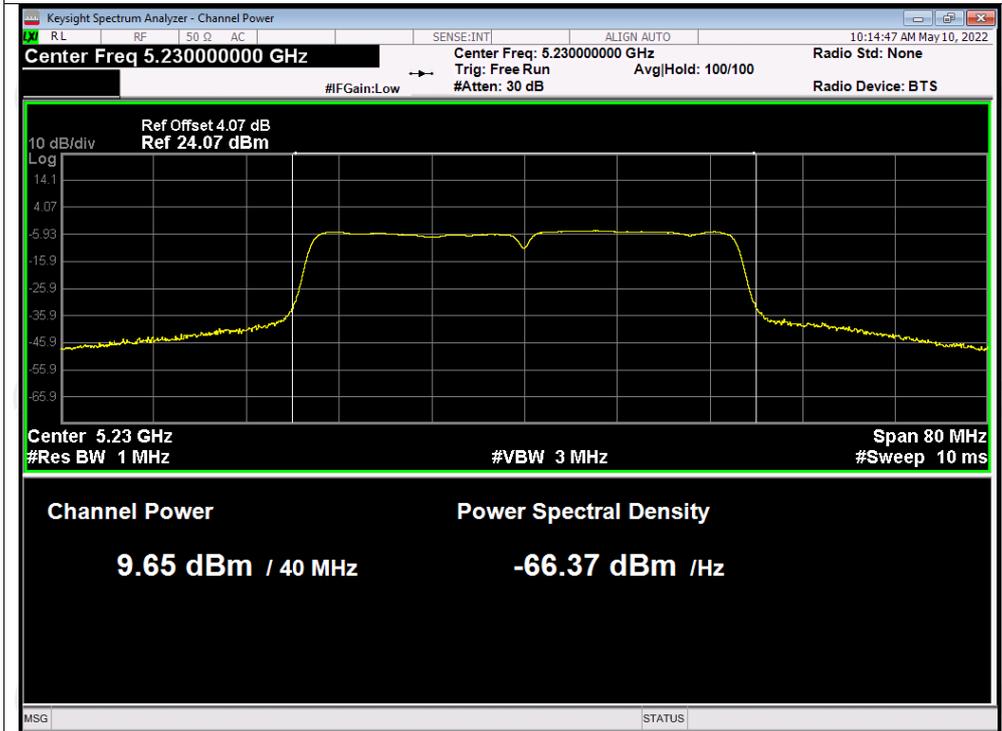
Power NVNT n20 5240MHz



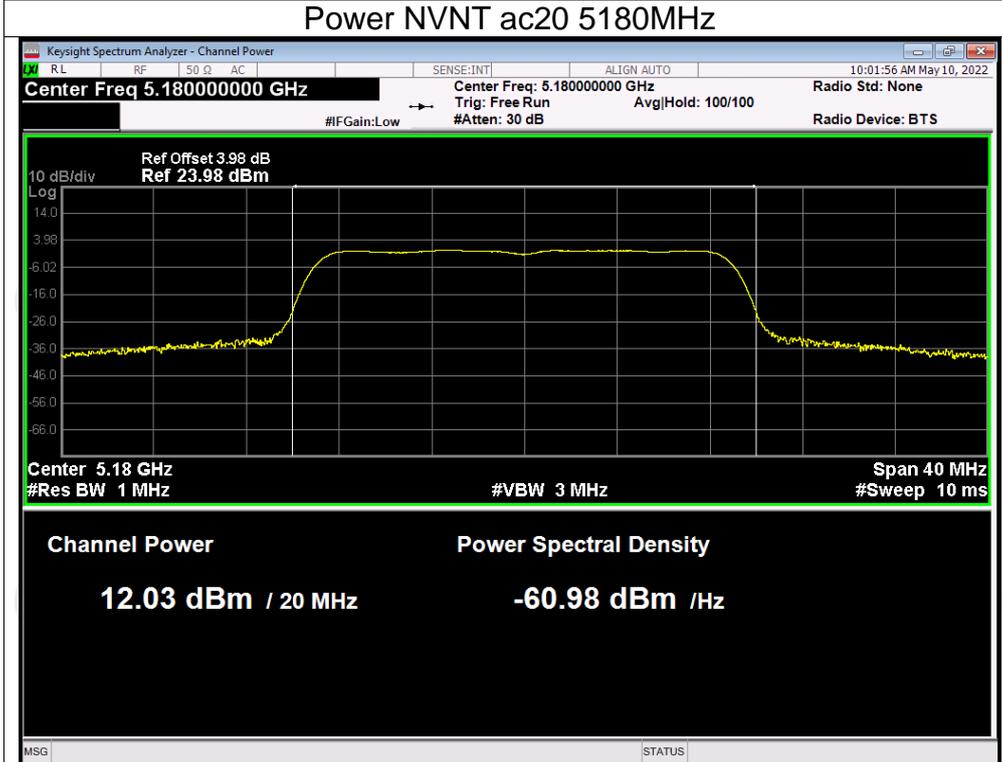
Power NVNT n40 5190MHz



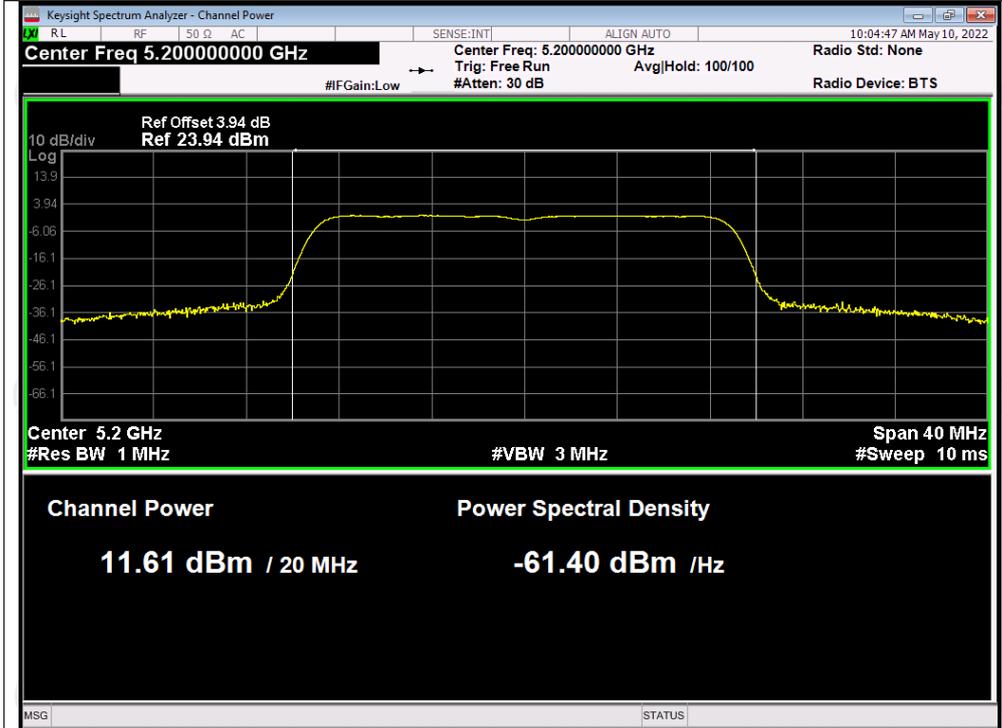
Power NVNT n40 5230MHz



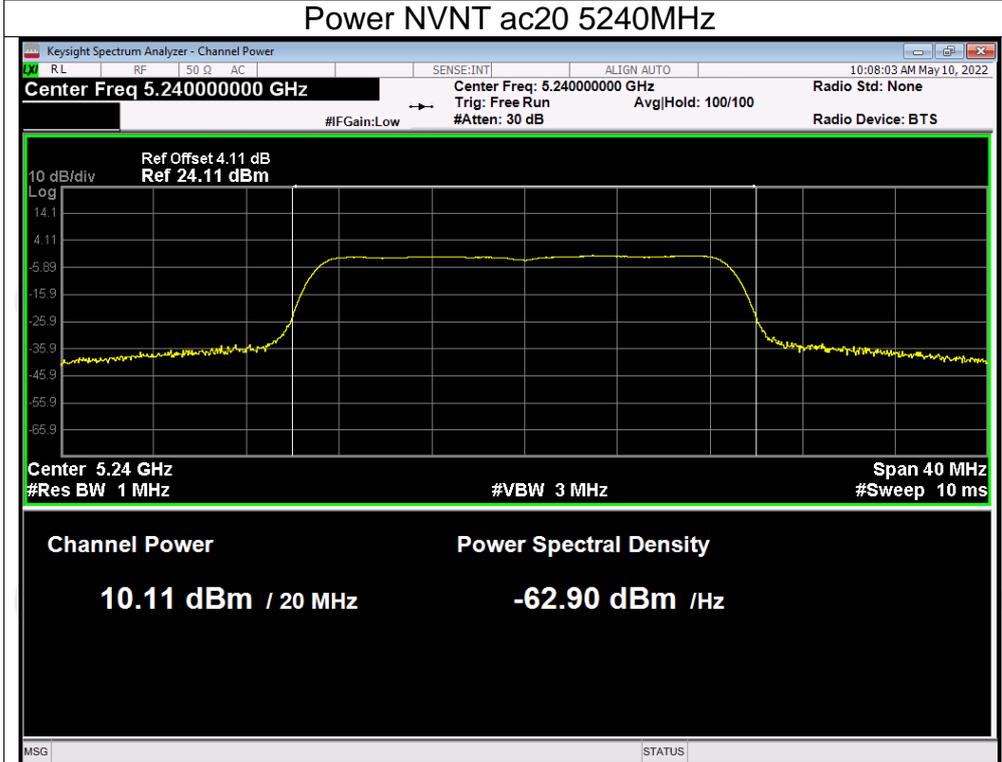
Power NVNT ac20 5180MHz



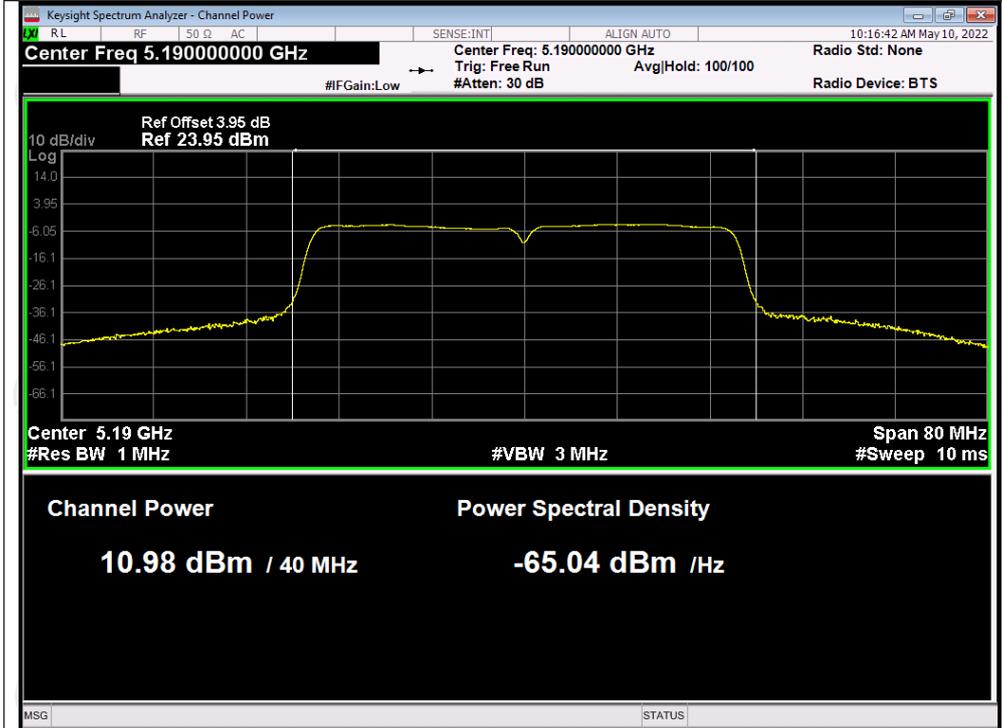
Power NVNT ac20 5200MHz



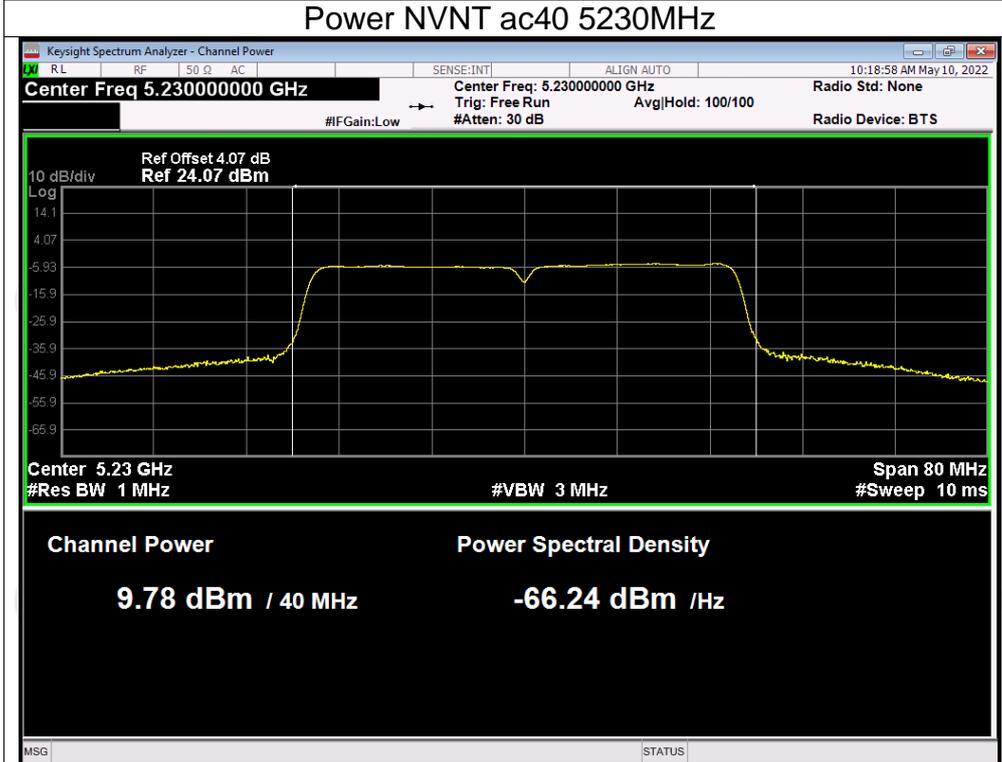
Power NVNT ac20 5240MHz



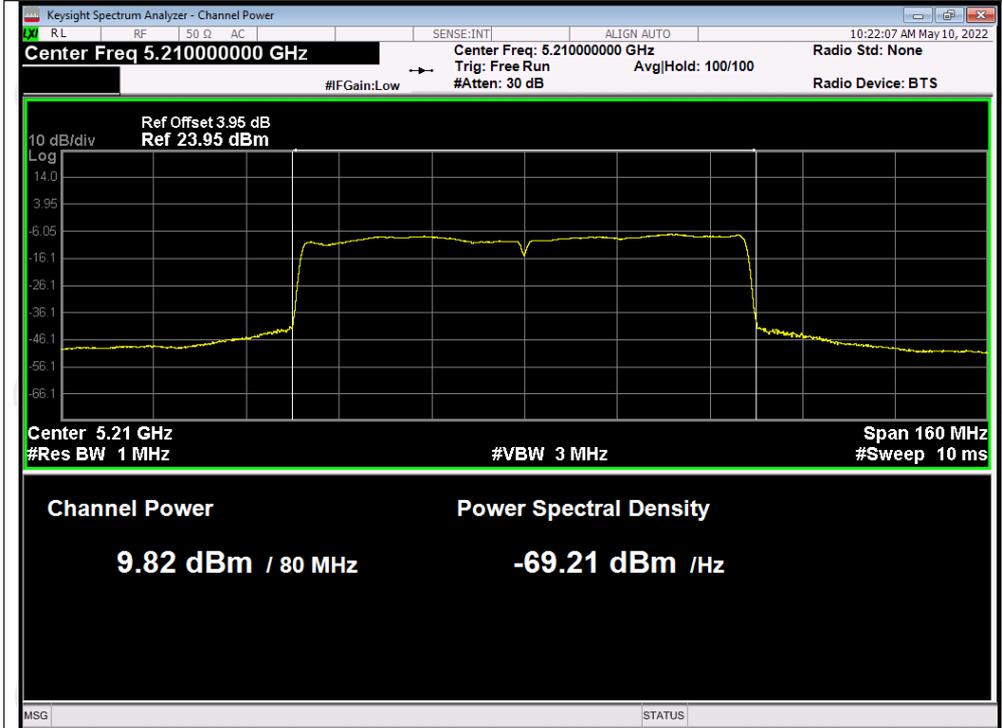
Power NVNT ac40 5190MHz



Power NVNT ac40 5230MHz

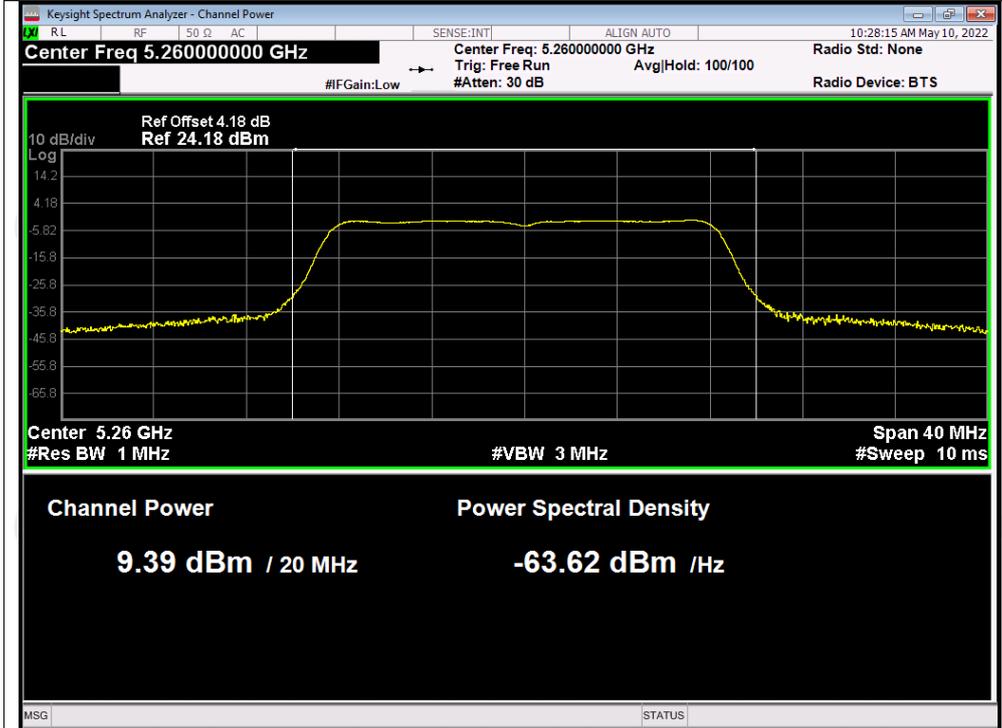


Power NVNT ac80 5210MHz

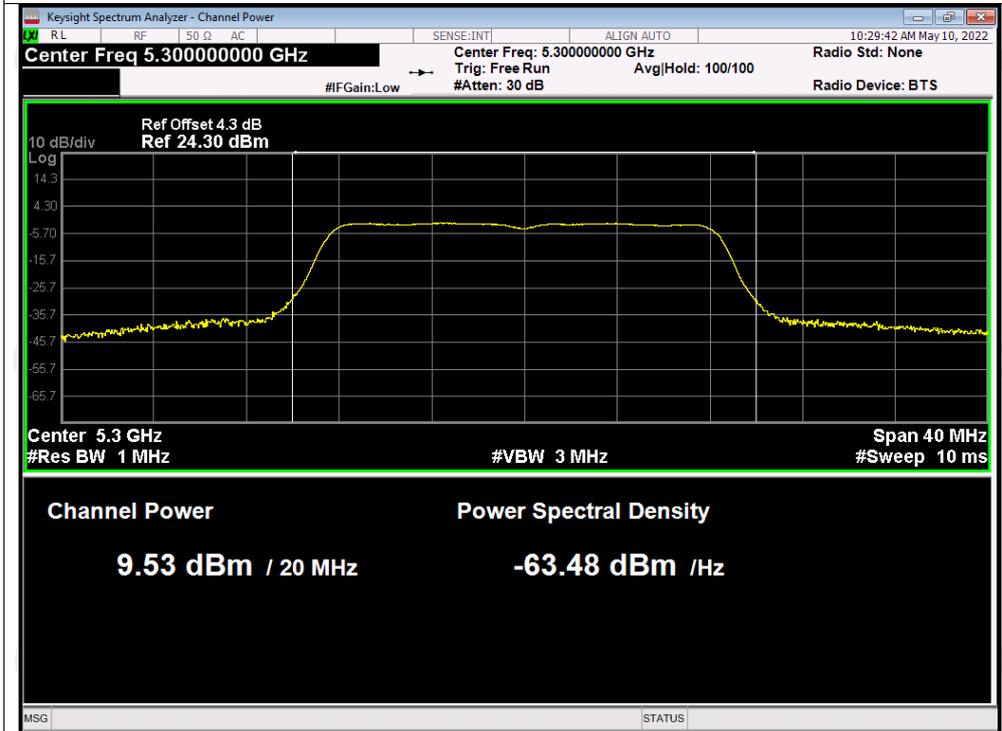


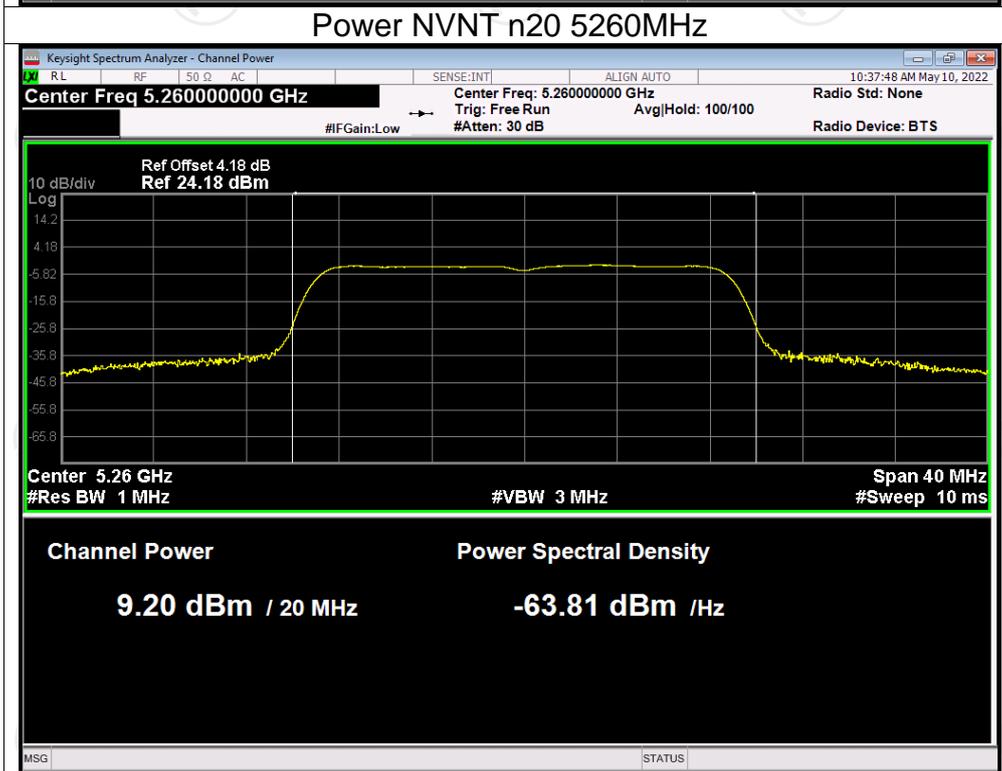
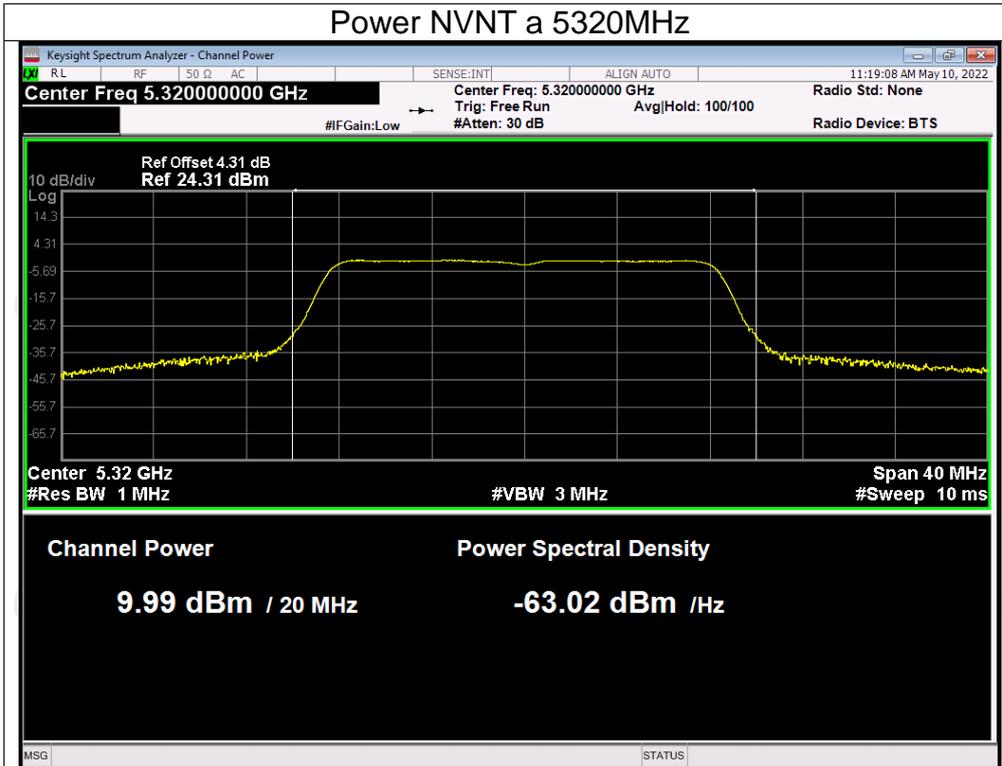
Test Graphs

Power NVNT a 5260MHz

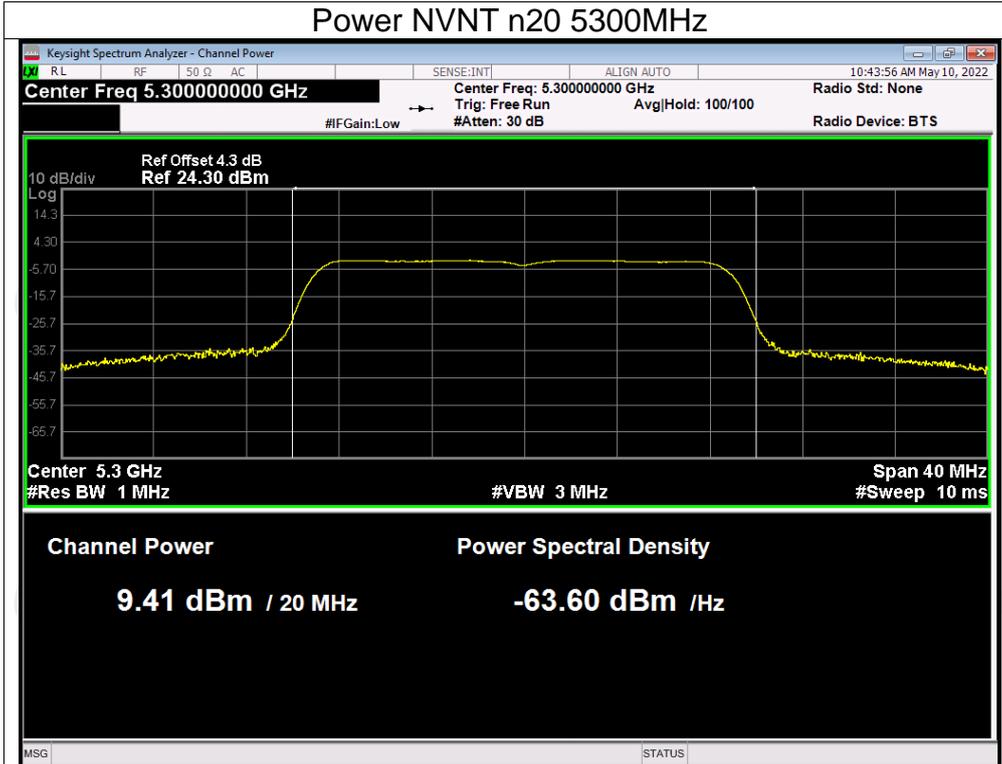


Power NVNT a 5300MHz

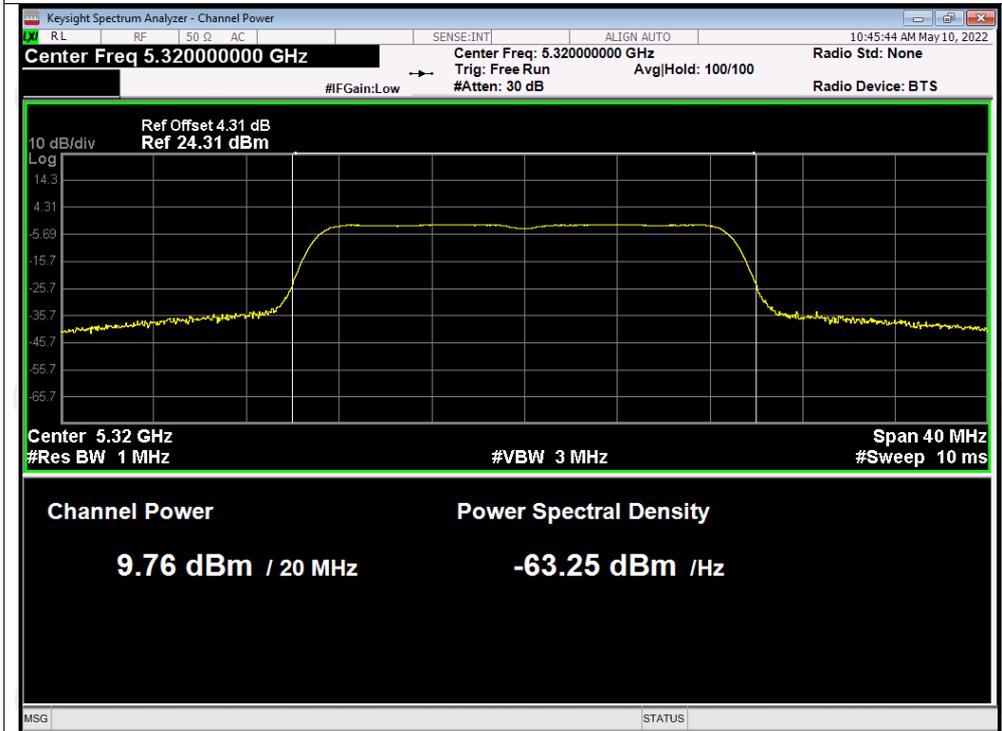




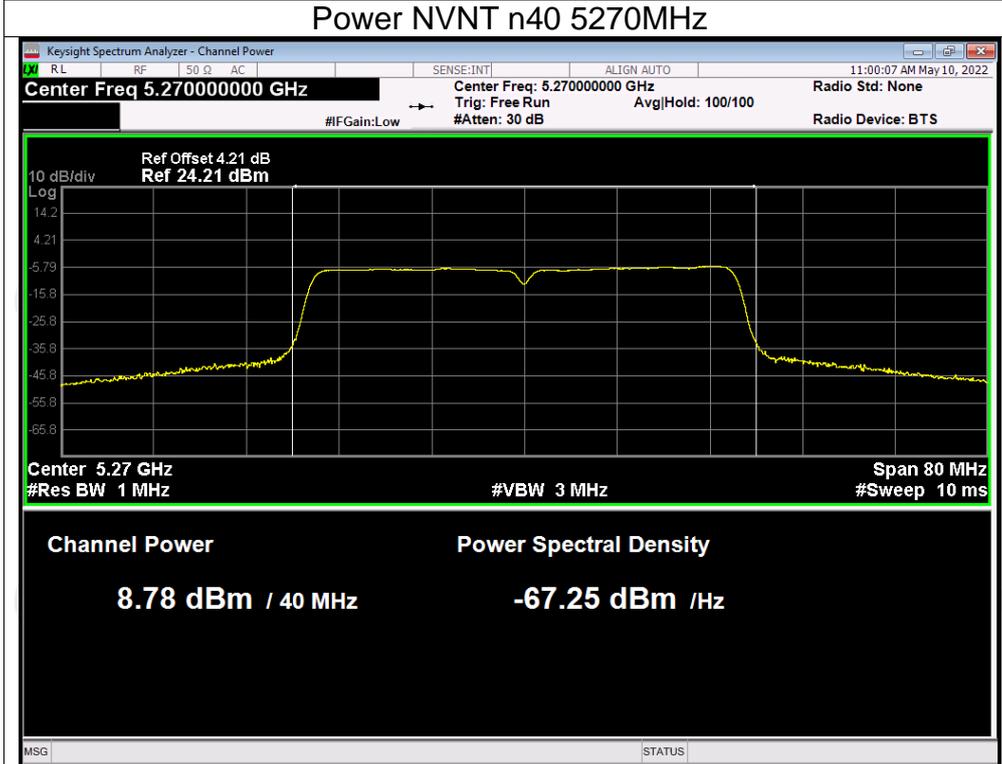
Power NVNT n20 5300MHz



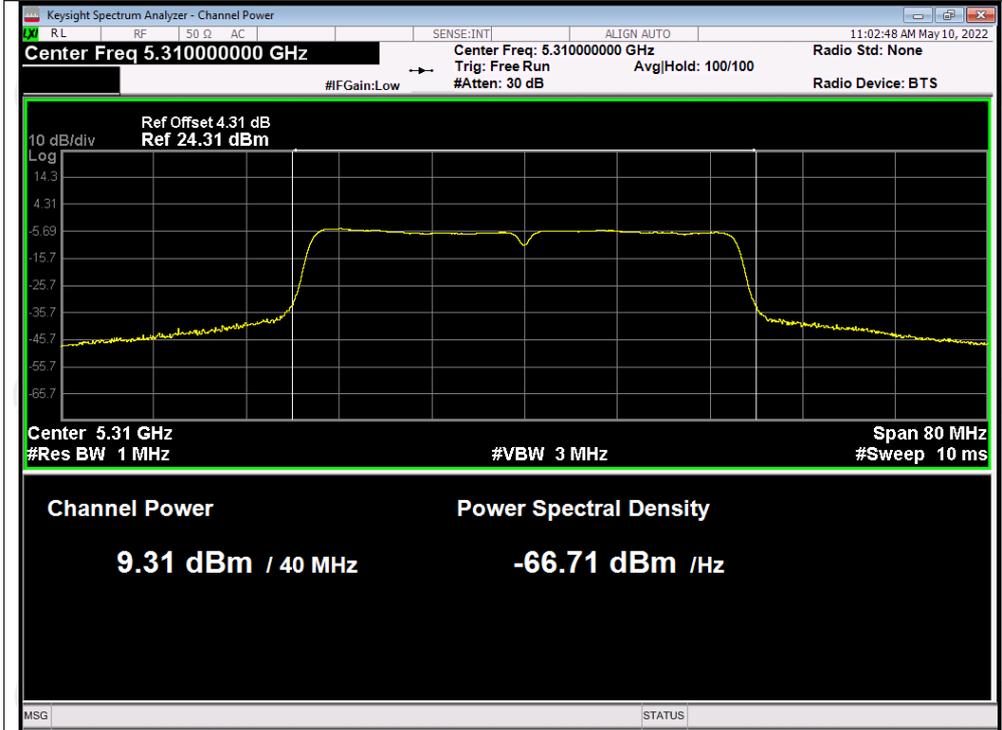
Power NVNT n20 5320MHz



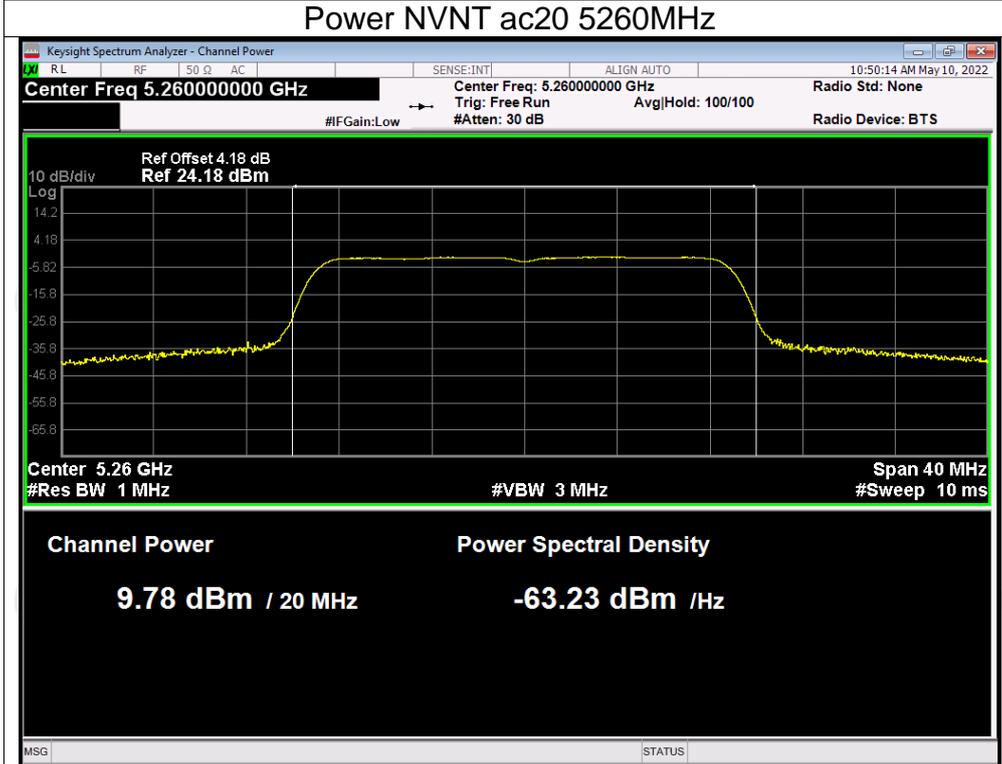
Power NVNT n40 5270MHz



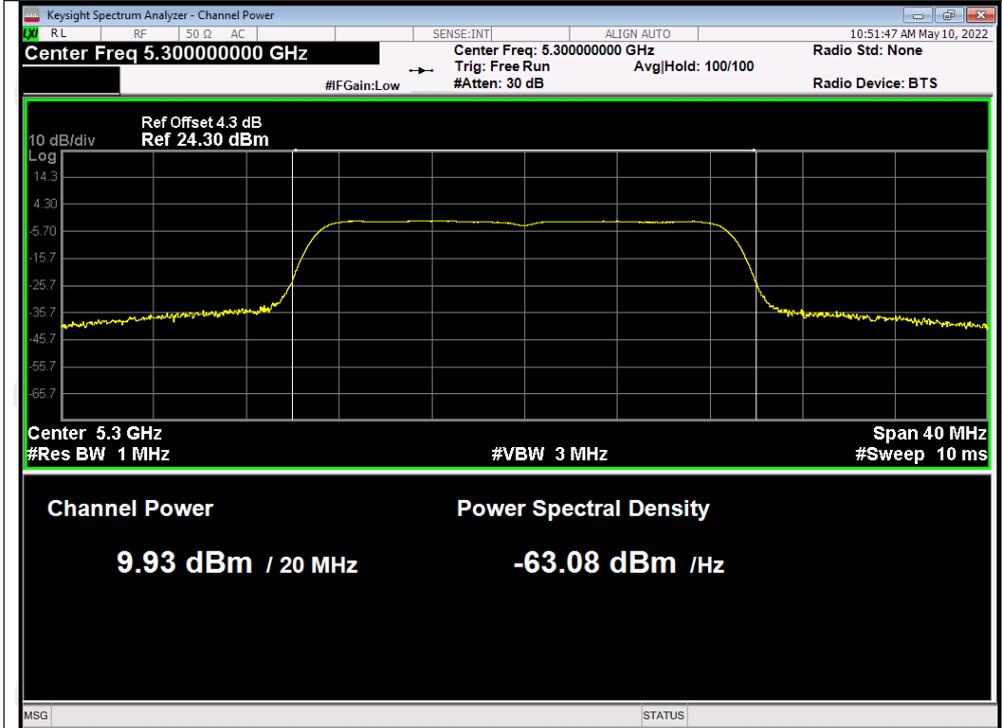
Power NVNT n40 5310MHz



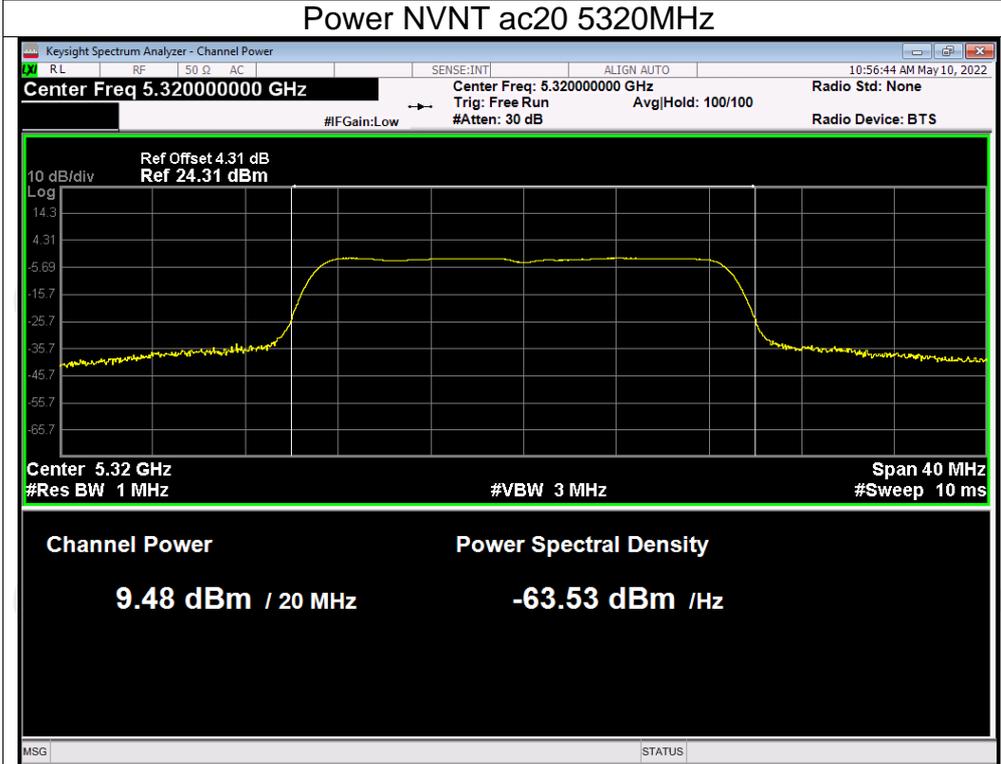
Power NVNT ac20 5260MHz



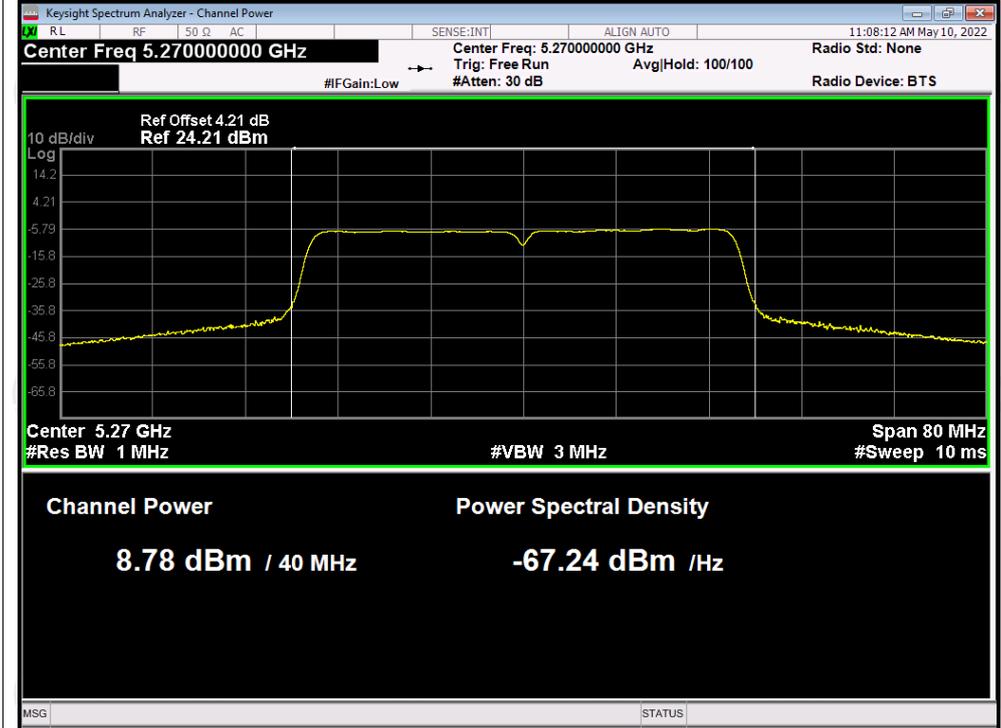
Power NVNT ac20 5300MHz



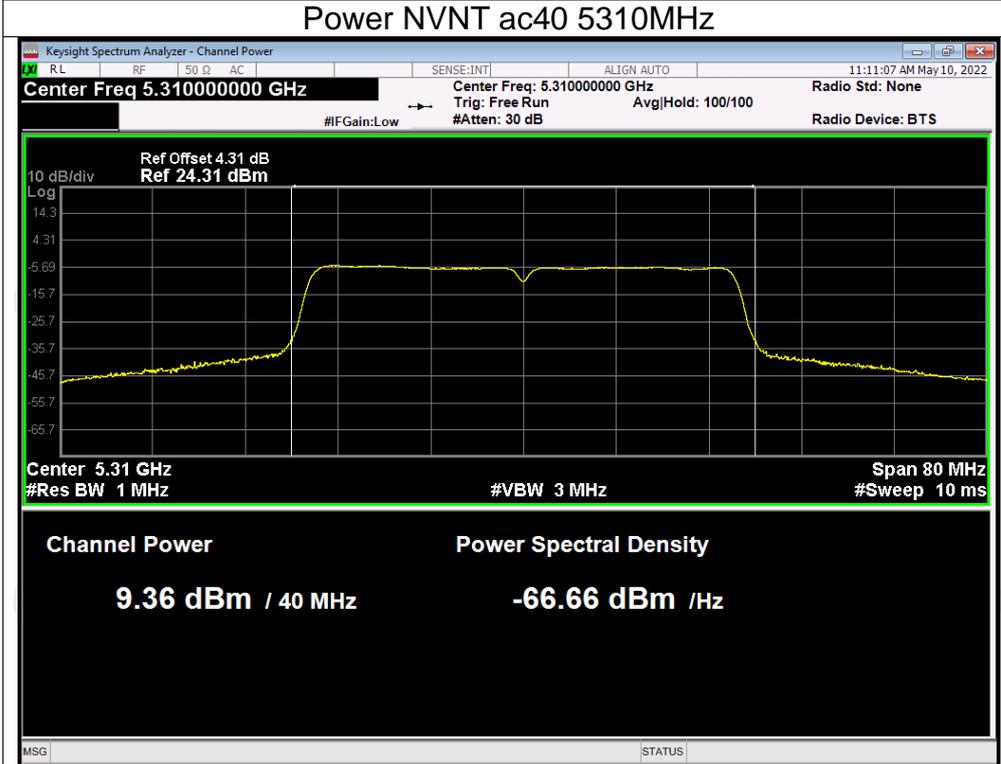
Power NVNT ac20 5320MHz



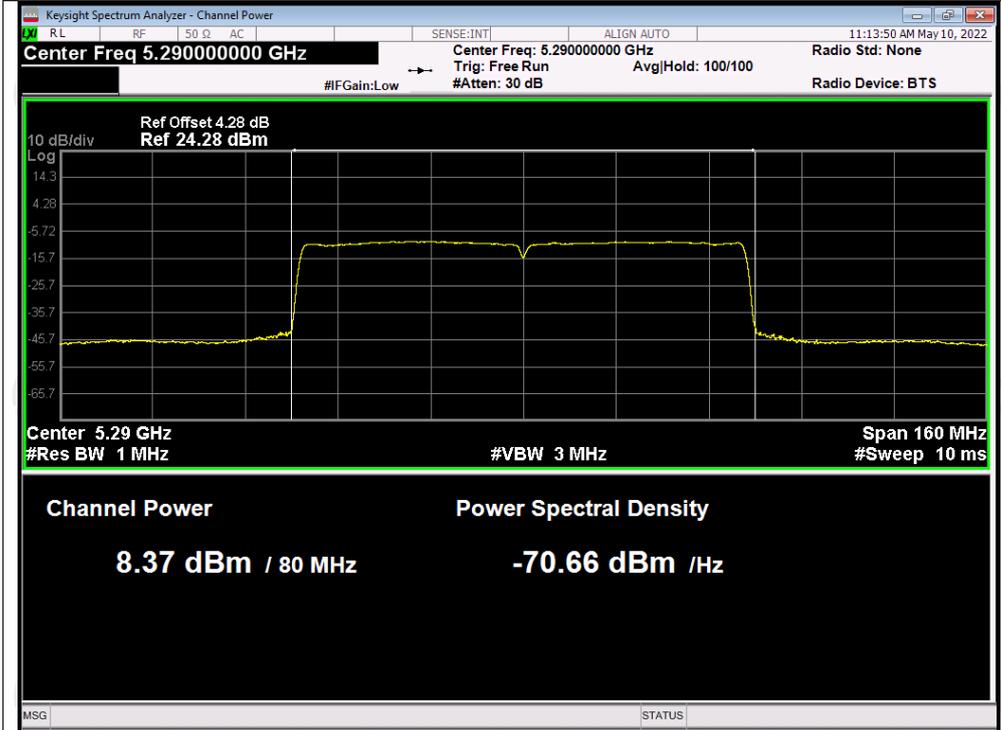
Power NVNT ac40 5270MHz



Power NVNT ac40 5310MHz

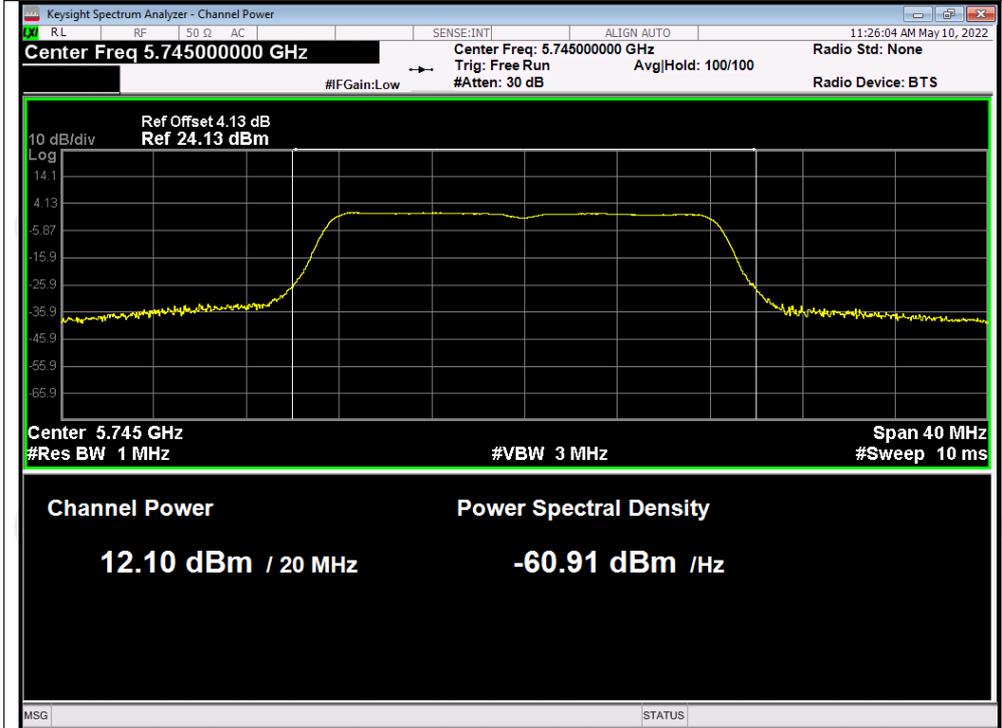


Power NVNT ac80 5290MHz

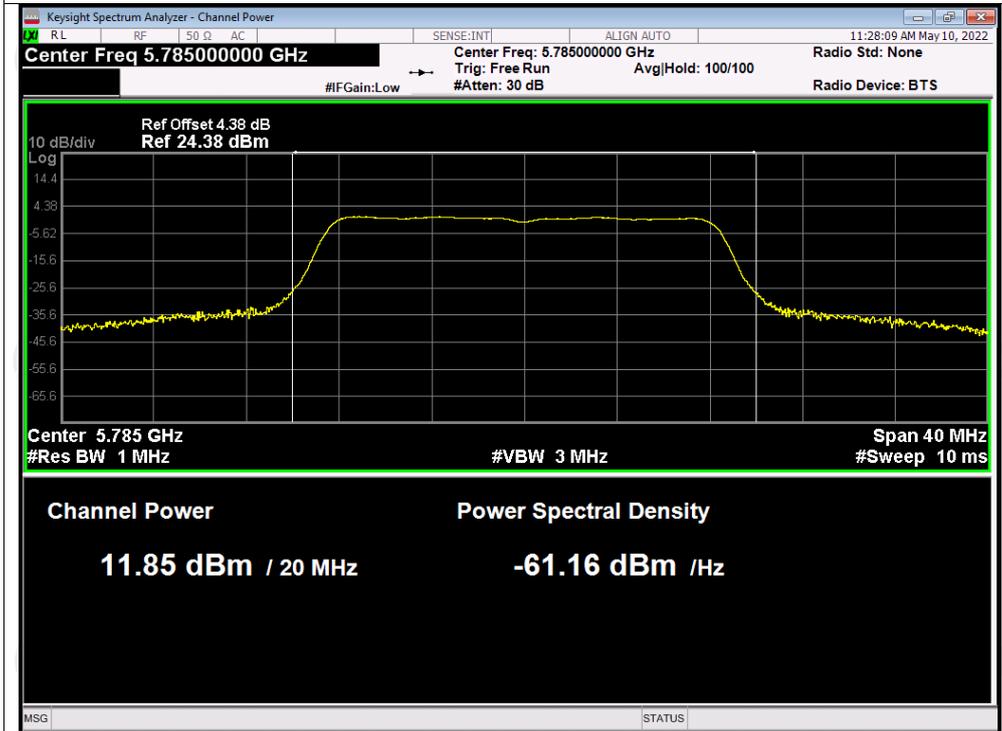


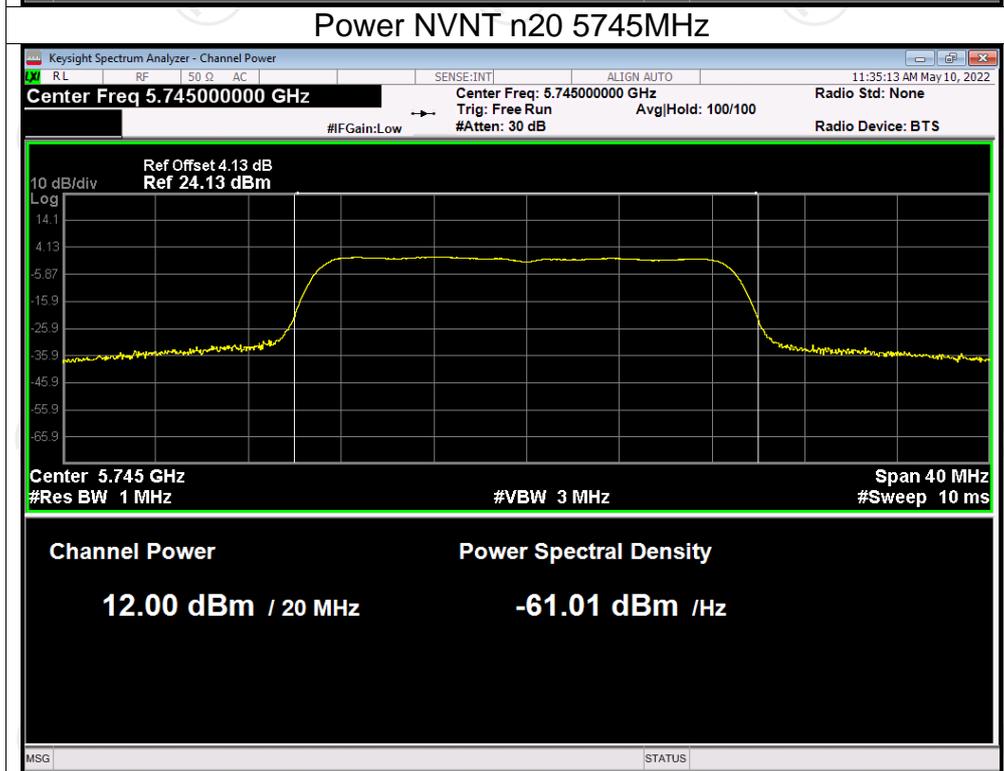
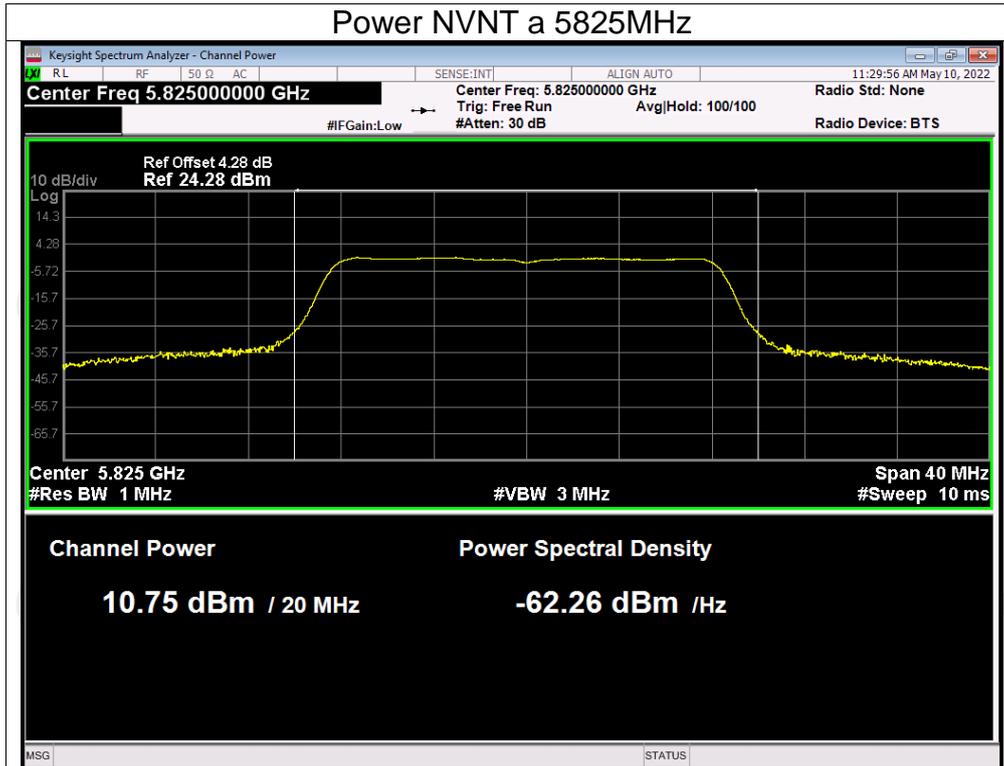
Test Graphs

Power NVNT a 5745MHz

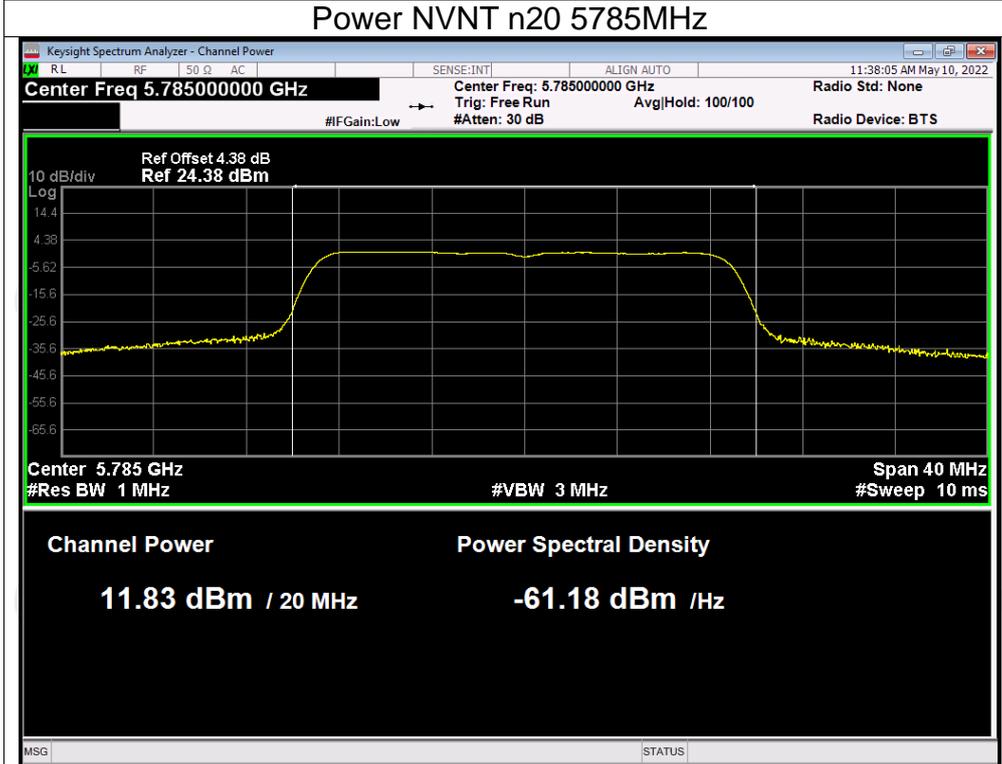


Power NVNT a 5785MHz

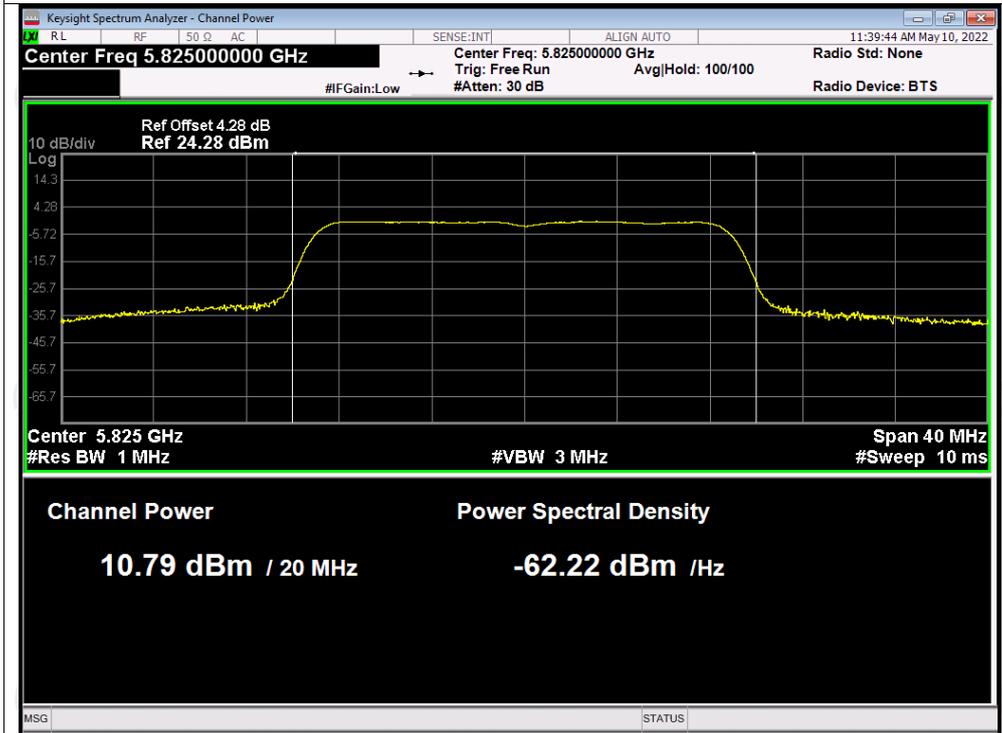




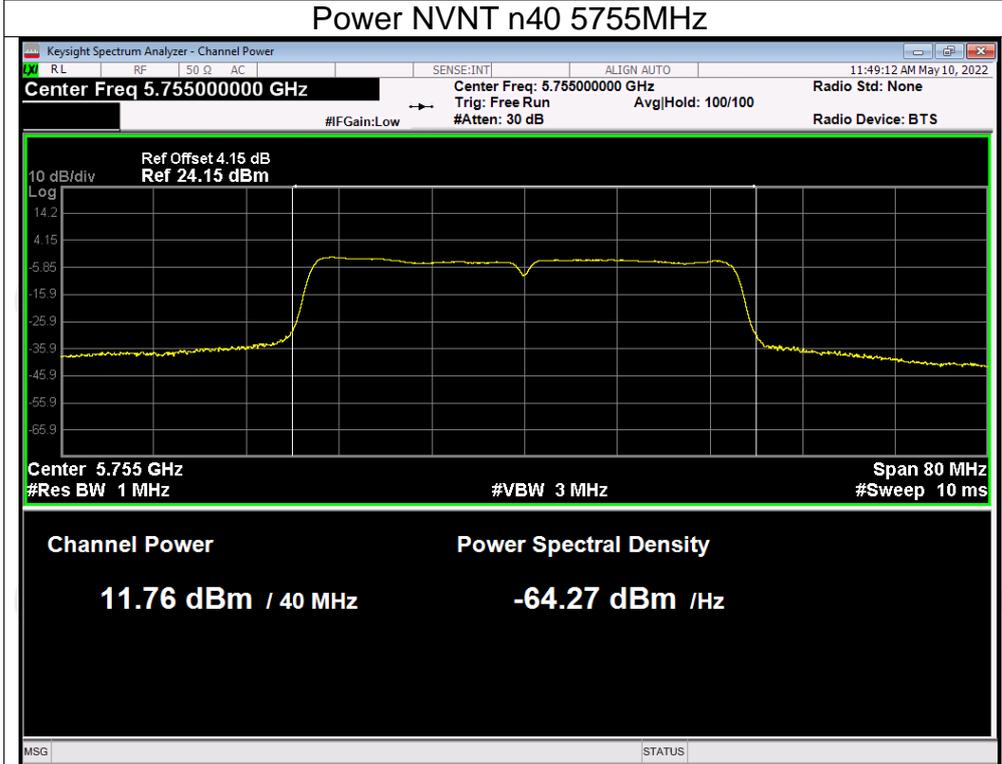
Power NVNT n20 5785MHz



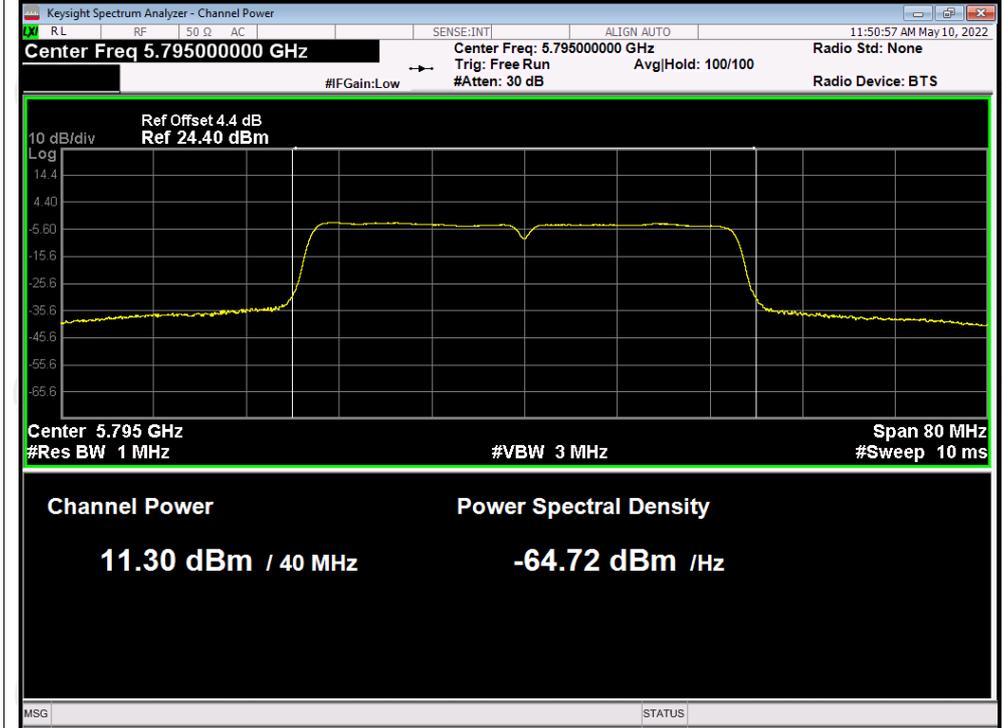
Power NVNT n20 5825MHz



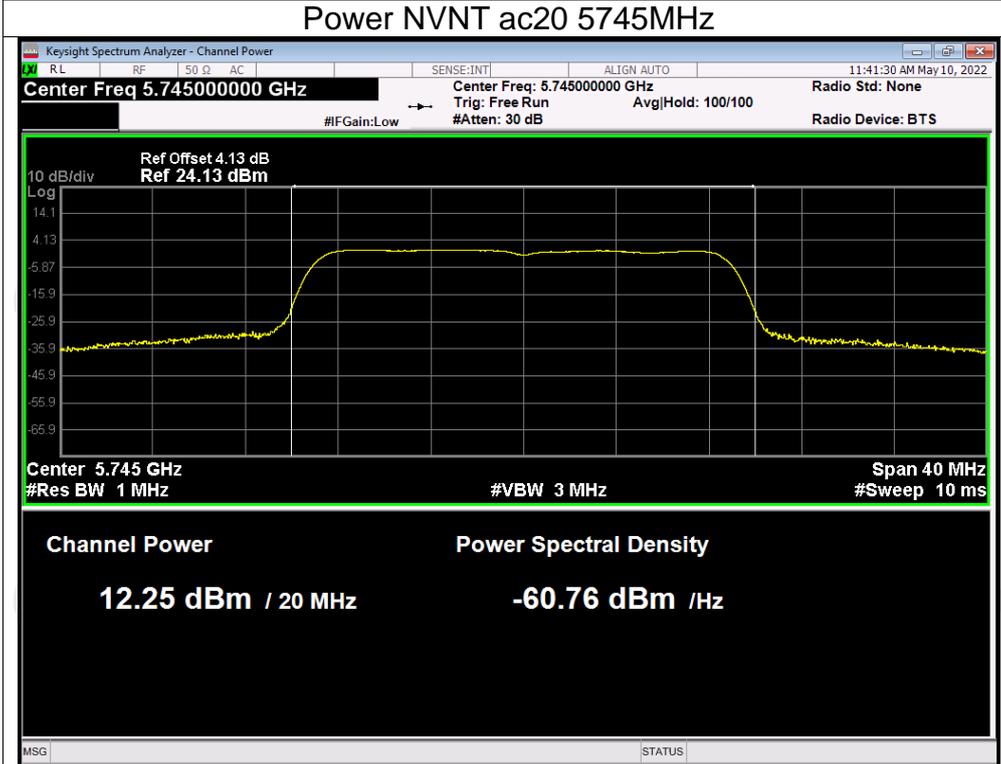
Power NVNT n40 5755MHz



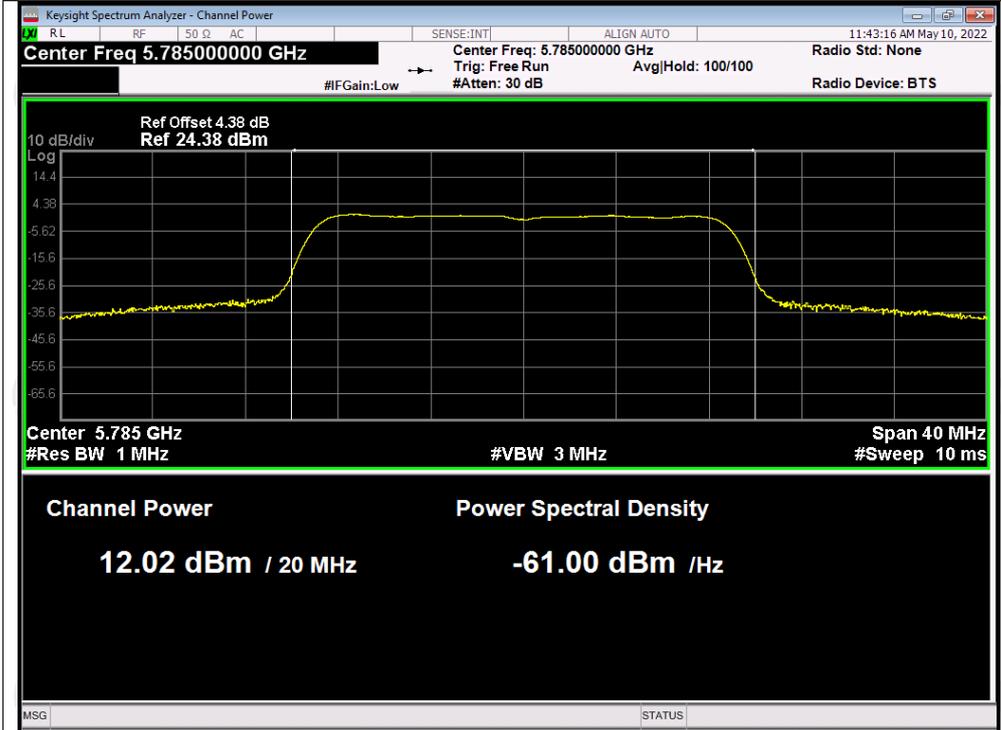
Power NVNT n40 5795MHz



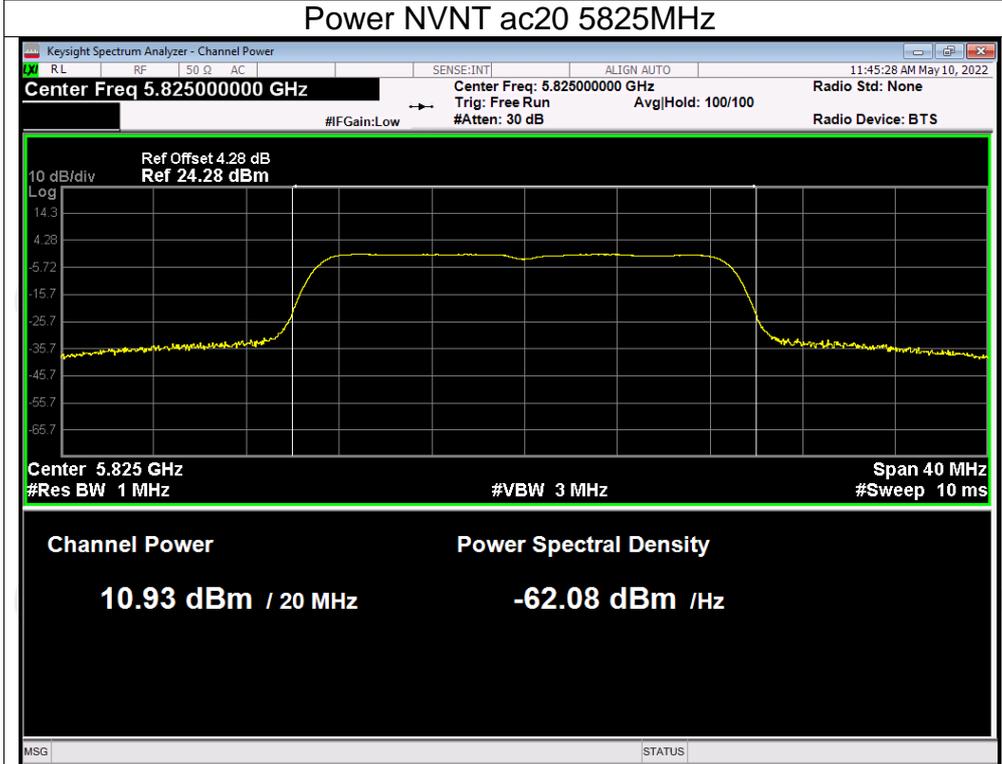
Power NVNT ac20 5745MHz



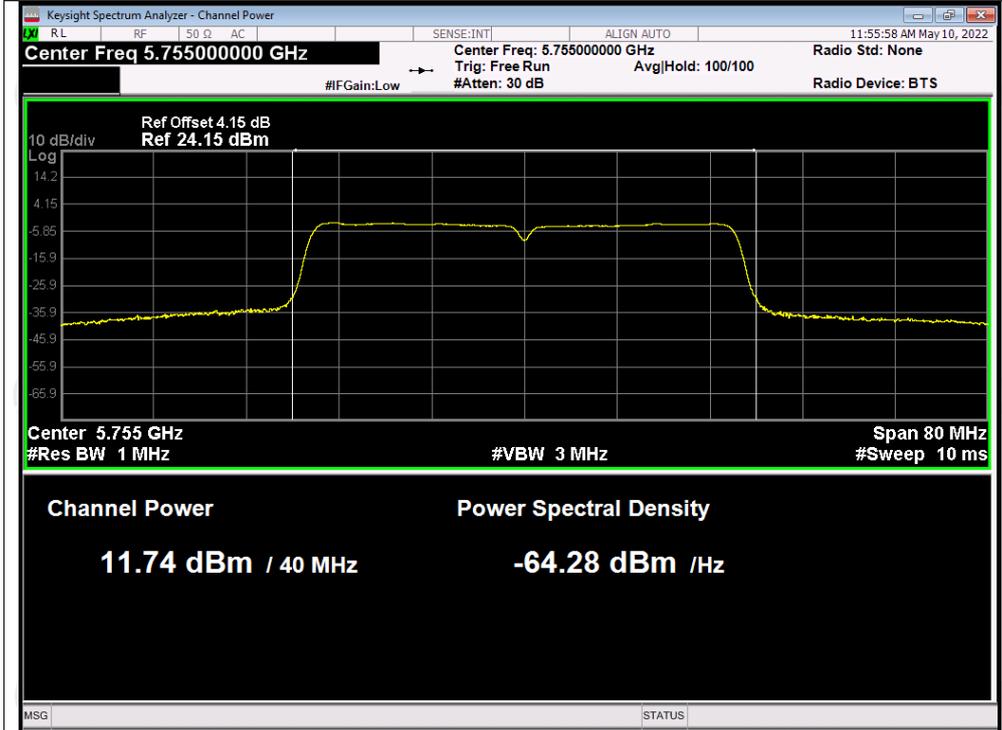
Power NVNT ac20 5785MHz



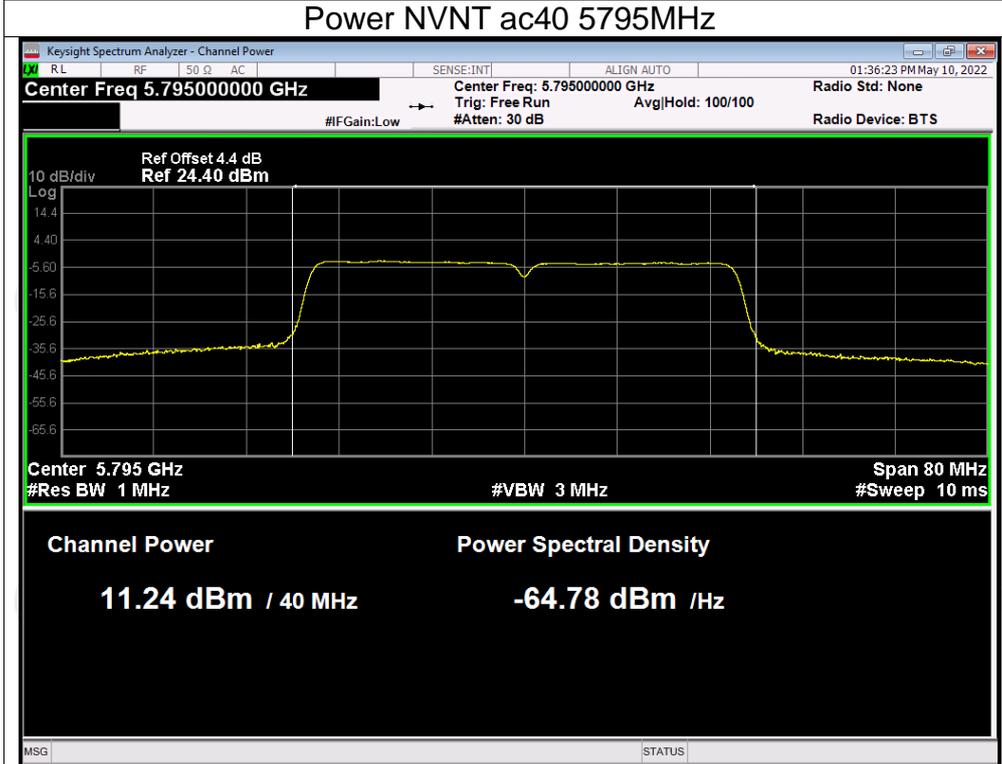
Power NVNT ac20 5825MHz



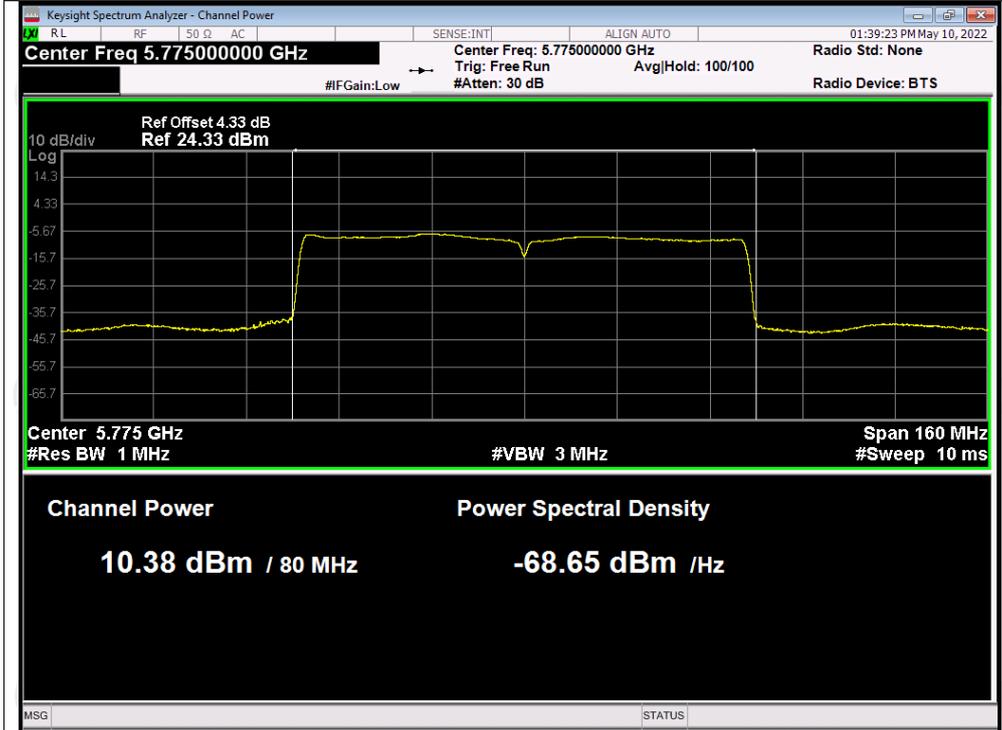
Power NVNT ac40 5755MHz



Power NVNT ac40 5795MHz



Power NVNT ac80 5775MHz

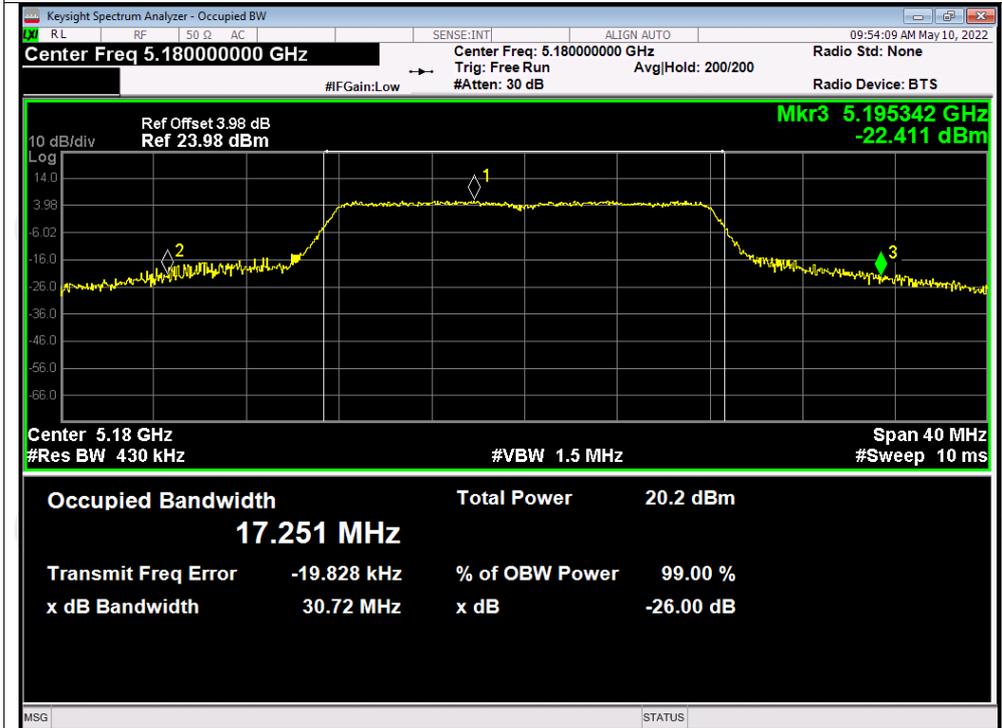


-26dB Bandwidth

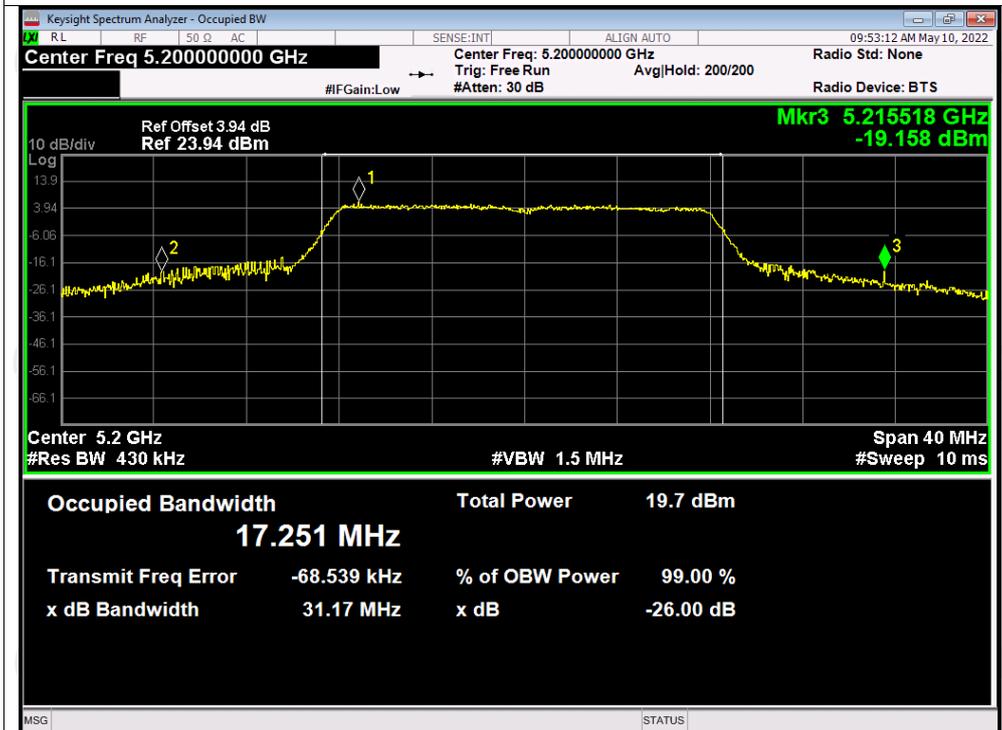
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	30.724	Pass
NVNT	a	5200	31.173	Pass
NVNT	a	5240	32.137	Pass
NVNT	n20	5180	34.934	Pass
NVNT	n20	5200	35.499	Pass
NVNT	n20	5240	34.489	Pass
NVNT	n40	5190	51.754	Pass
NVNT	n40	5230	53.409	Pass
NVNT	ac20	5180	37.128	Pass
NVNT	ac20	5200	38.272	Pass
NVNT	ac20	5240	36.789	Pass
NVNT	ac40	5190	52.751	Pass
NVNT	ac40	5230	45.527	Pass
NVNT	ac80	5210	85.677	Pass
NVNT	a	5260	32.417	Pass
NVNT	a	5300	30.489	Pass
NVNT	a	5320	30.972	Pass
NVNT	n20	5260	33.843	Pass
NVNT	n20	5300	33.205	Pass
NVNT	n20	5320	35.807	Pass
NVNT	n40	5270	53.145	Pass
NVNT	n40	5310	50.807	Pass
NVNT	ac20	5260	34.702	Pass
NVNT	ac20	5300	32.649	Pass
NVNT	ac20	5320	35.769	Pass
NVNT	ac40	5270	47.719	Pass
NVNT	ac40	5310	52.728	Pass
NVNT	ac80	5290	86.574	Pass

Test Graphs

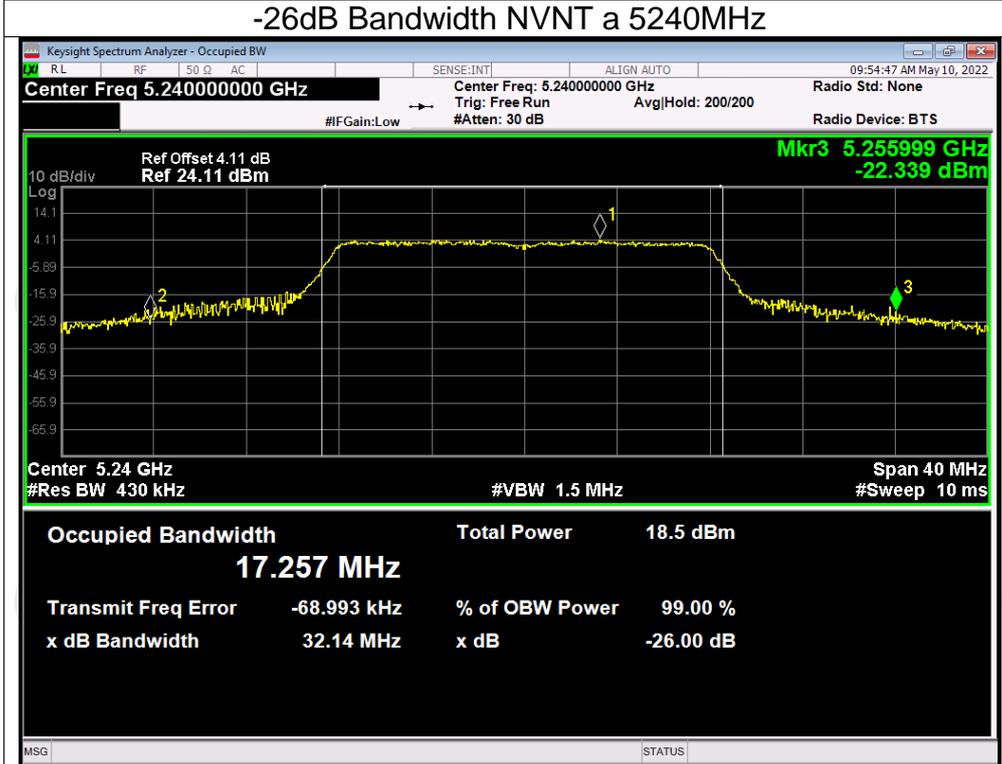
-26dB Bandwidth NVNT a 5180MHz



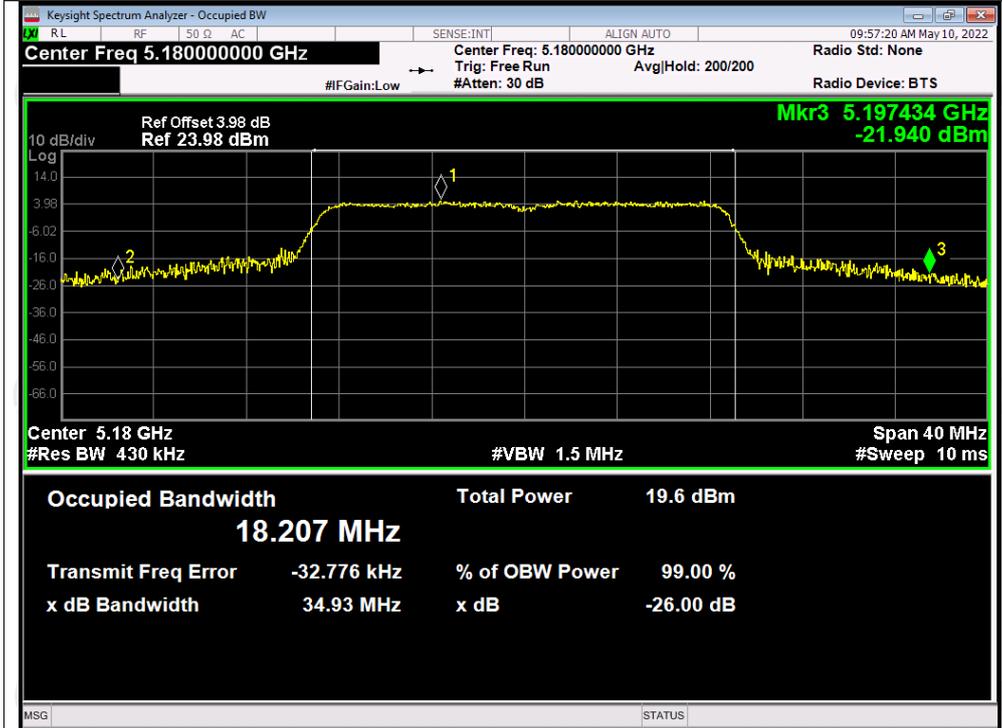
-26dB Bandwidth NVNT a 5200MHz



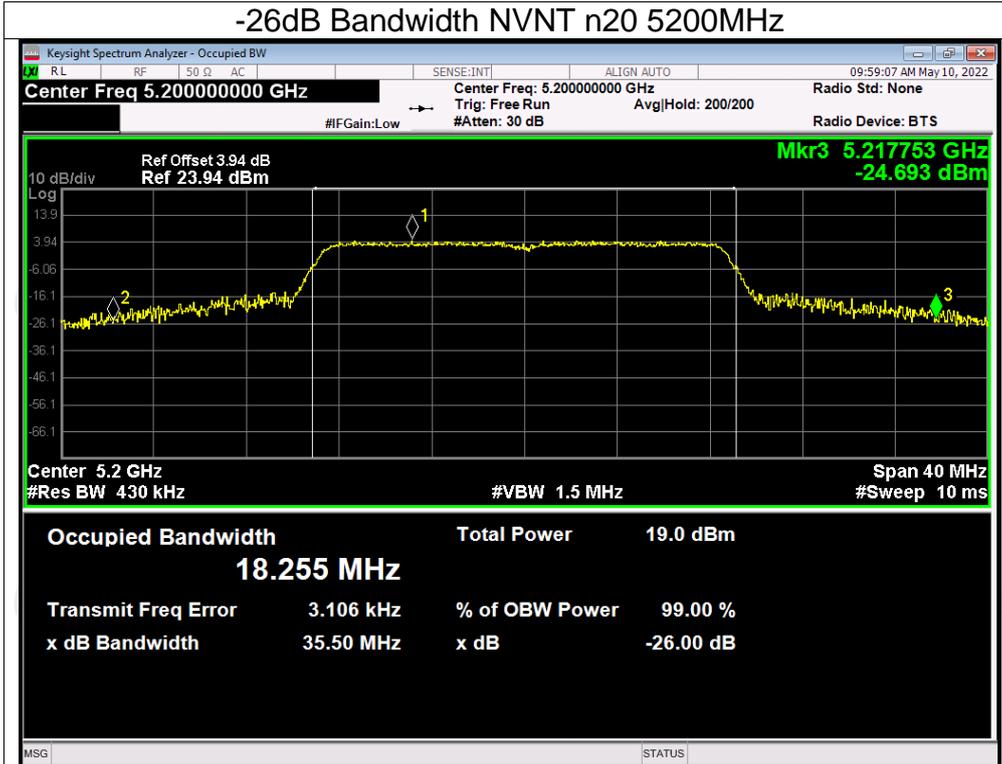
-26dB Bandwidth NVNT a 5240MHz



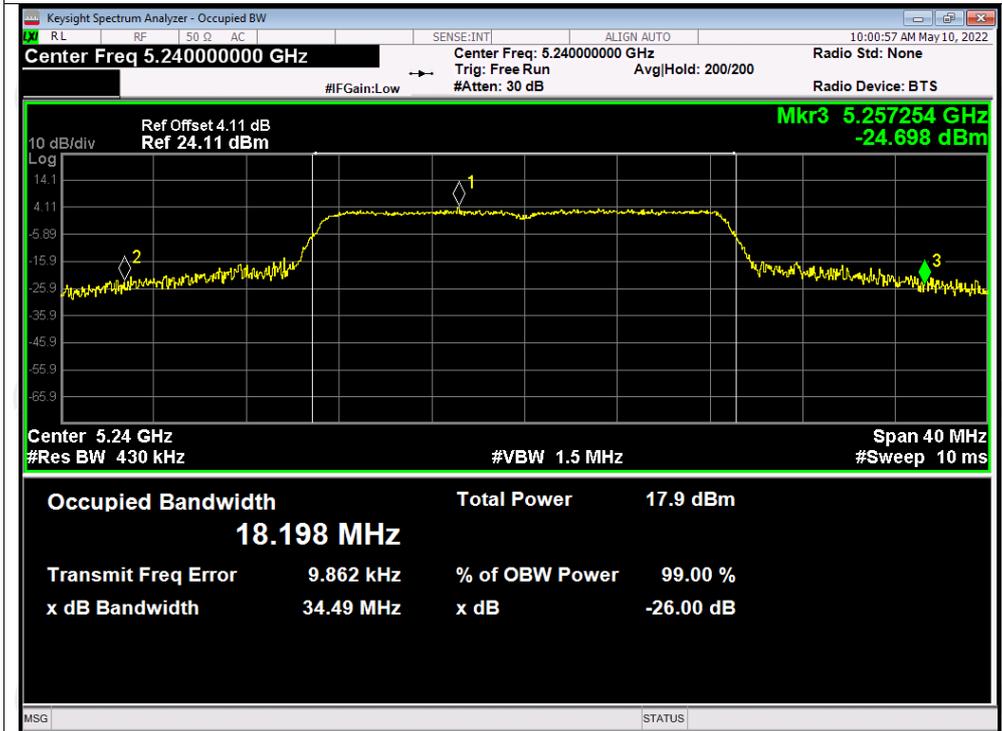
-26dB Bandwidth NVNT n20 5180MHz



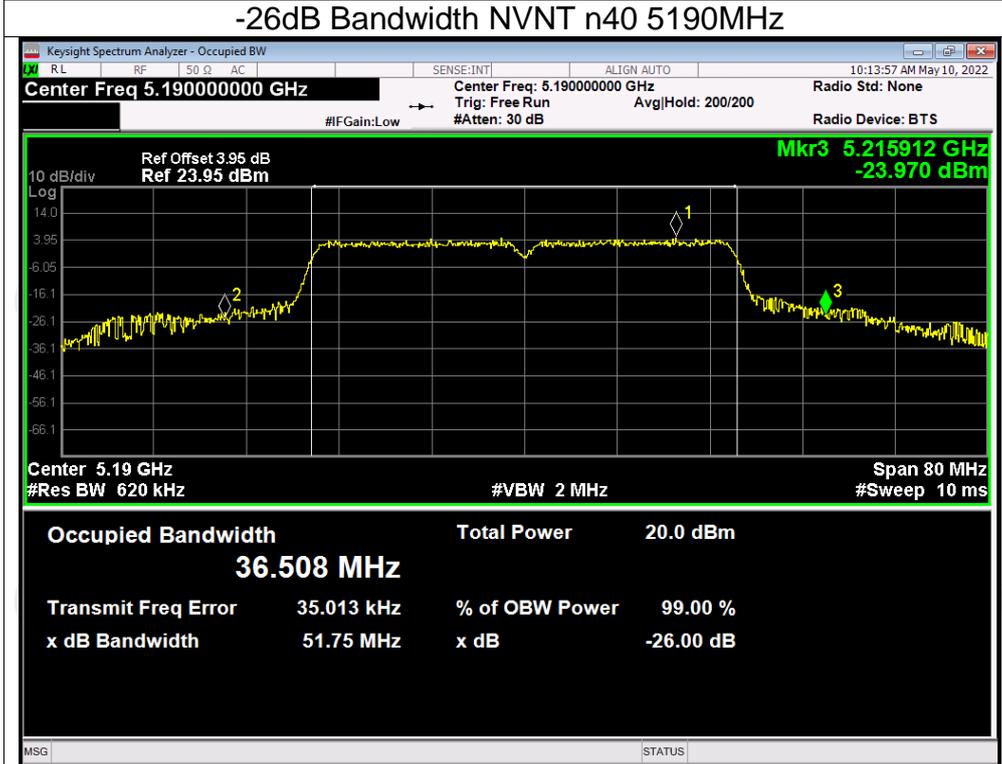
-26dB Bandwidth NVNT n20 5200MHz



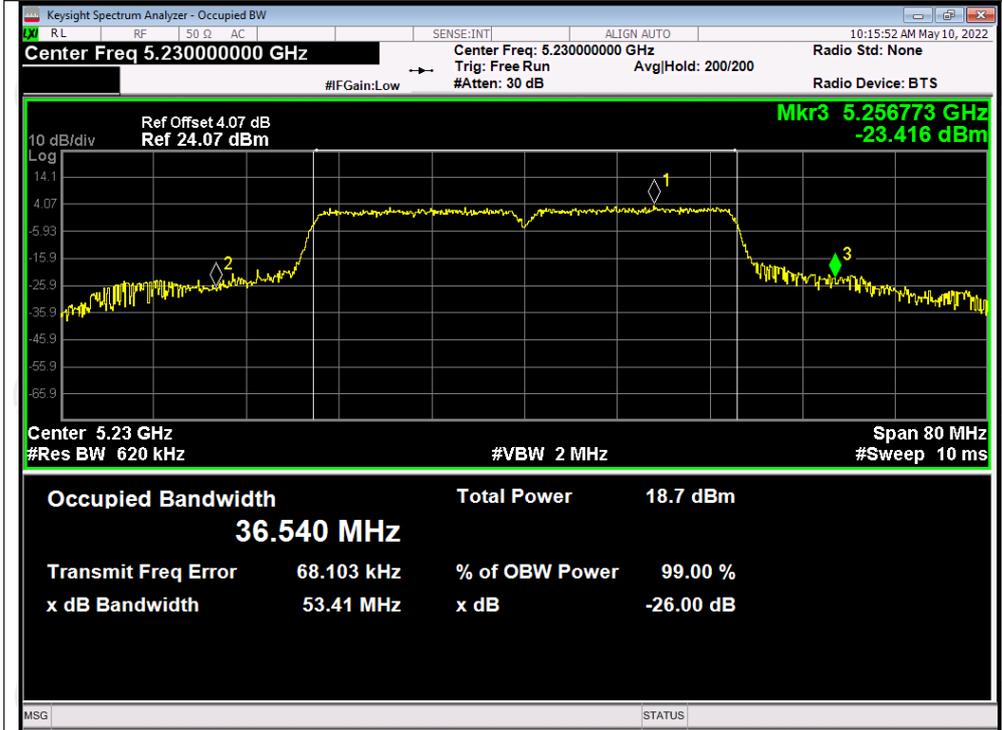
-26dB Bandwidth NVNT n20 5240MHz



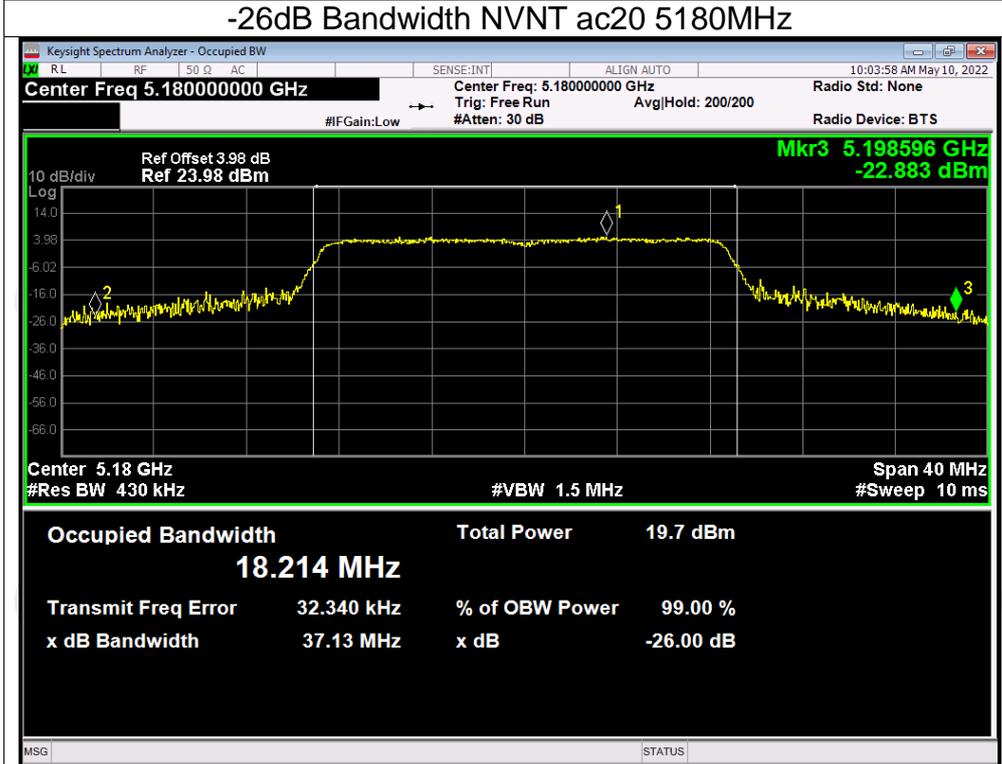
-26dB Bandwidth NVNT n40 5190MHz



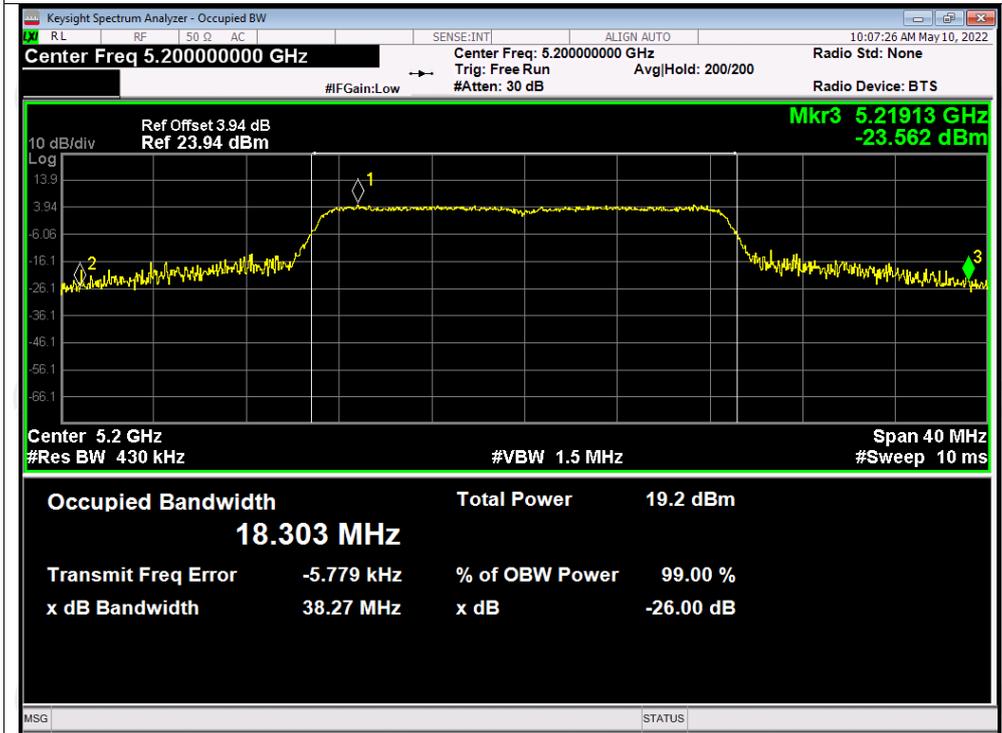
-26dB Bandwidth NVNT n40 5230MHz



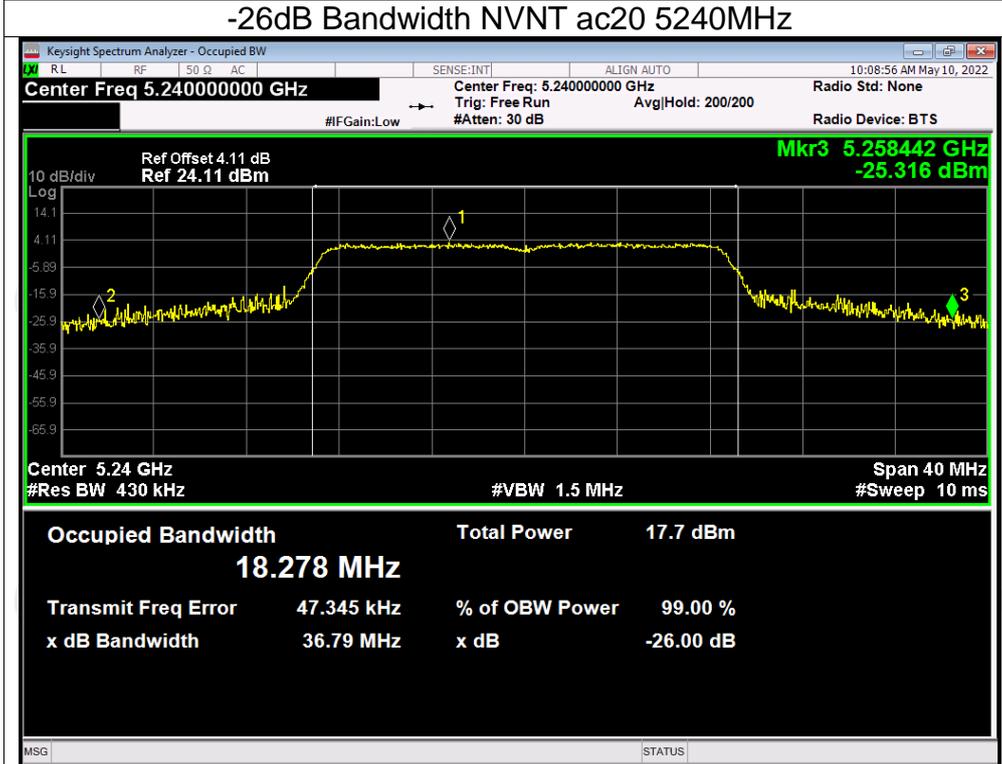
-26dB Bandwidth NVNT ac20 5180MHz



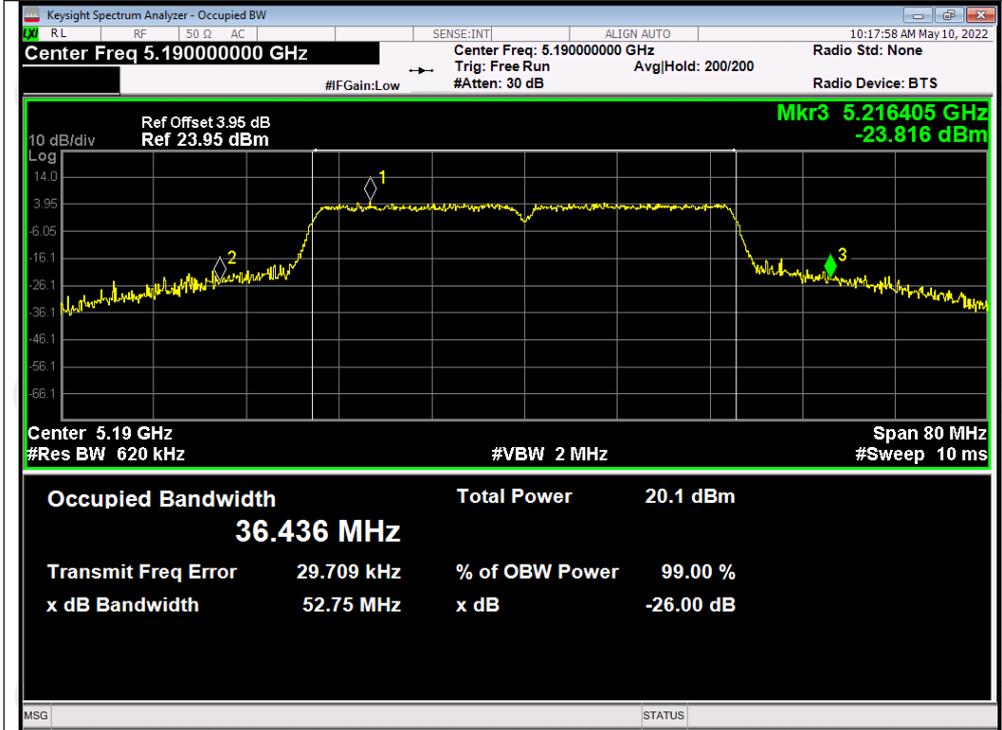
-26dB Bandwidth NVNT ac20 5200MHz



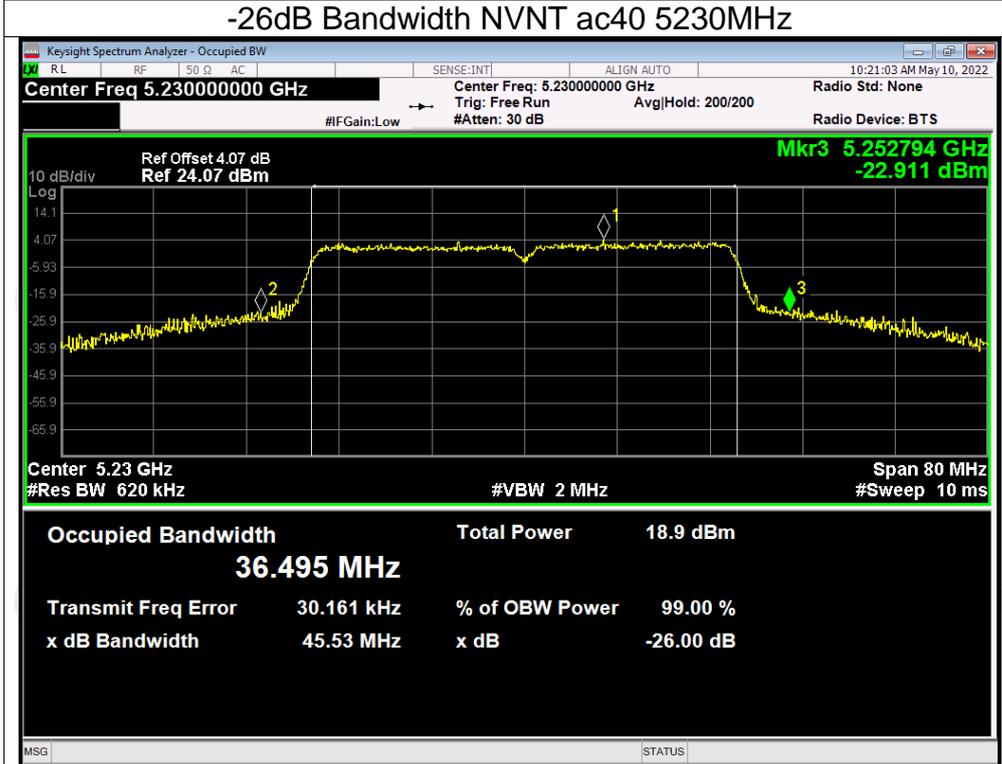
-26dB Bandwidth NVNT ac20 5240MHz



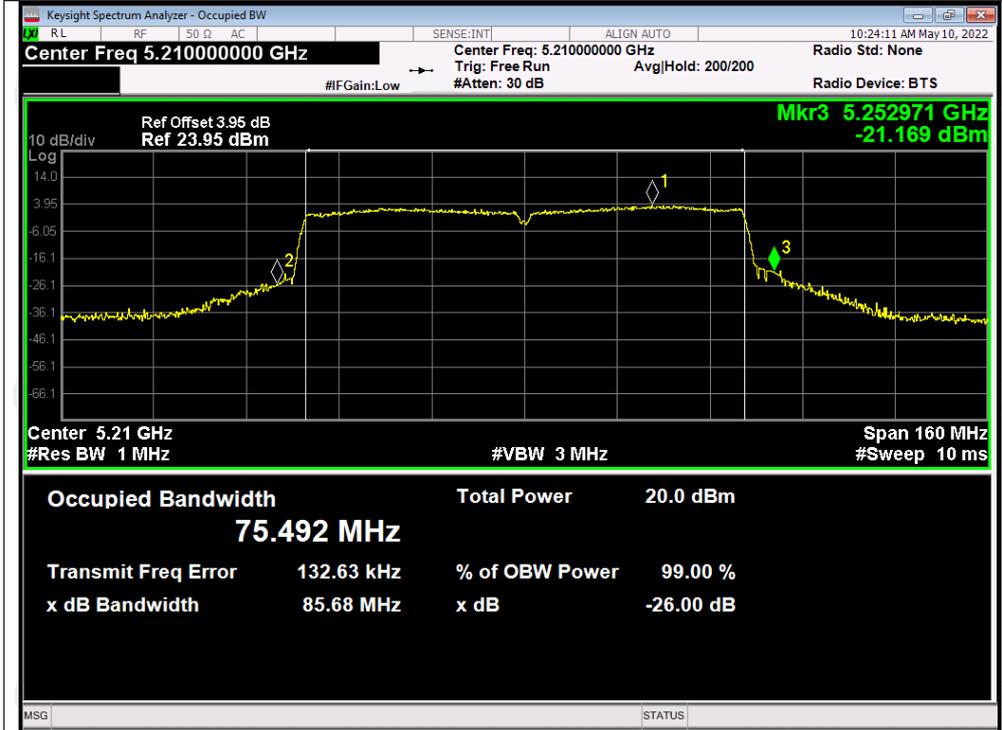
-26dB Bandwidth NVNT ac40 5190MHz



-26dB Bandwidth NVNT ac40 5230MHz

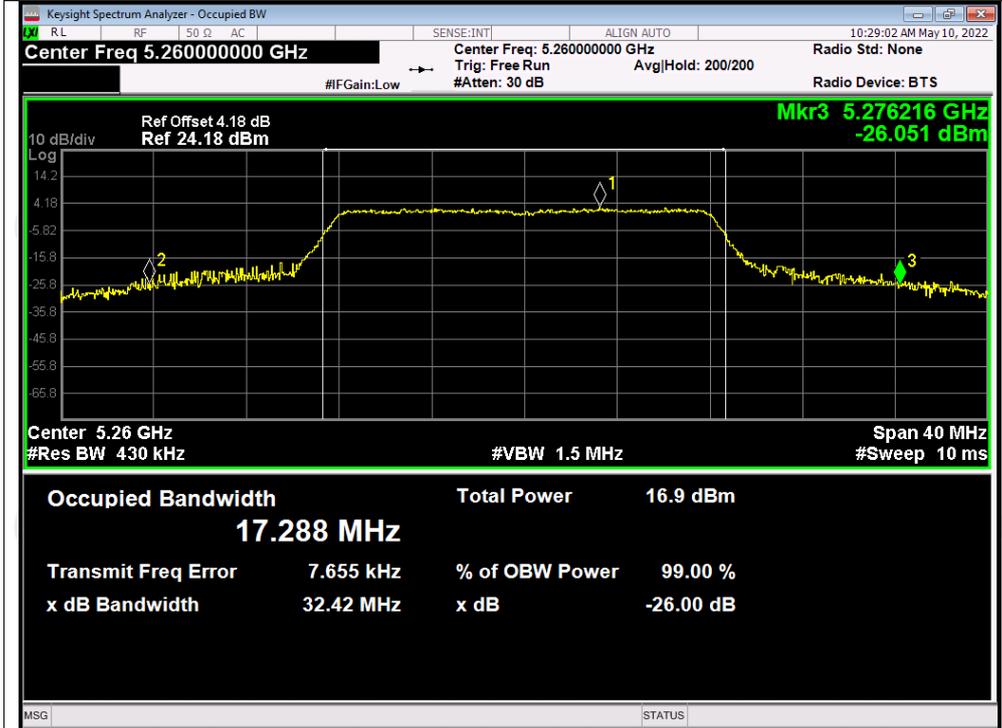


-26dB Bandwidth NVNT ac80 5210MHz

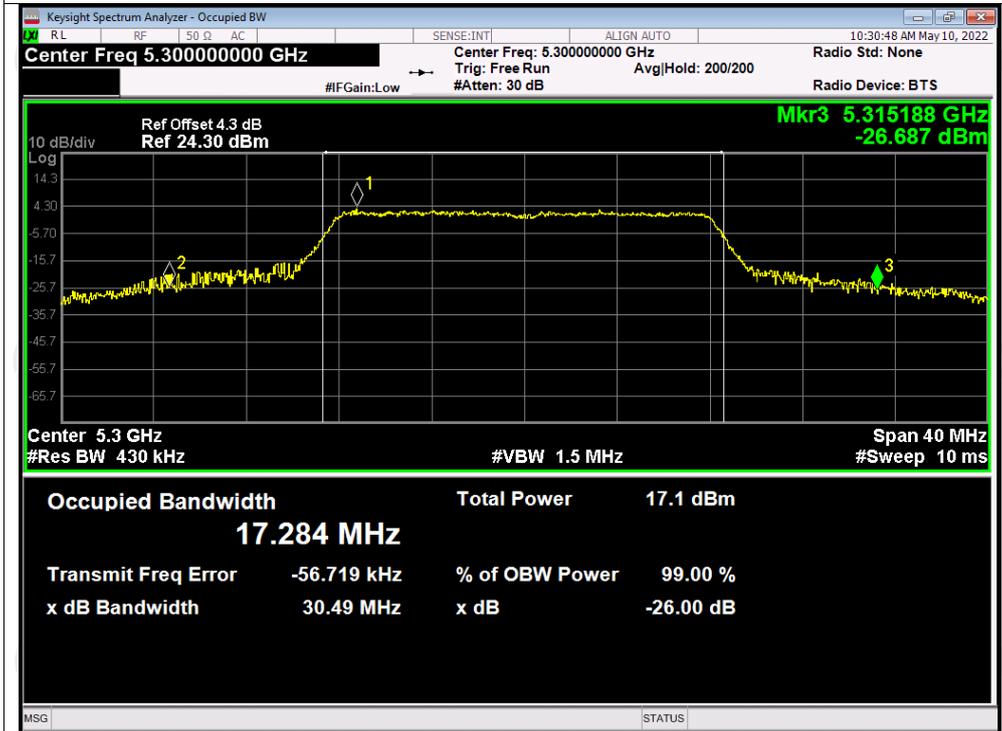


Test Graphs

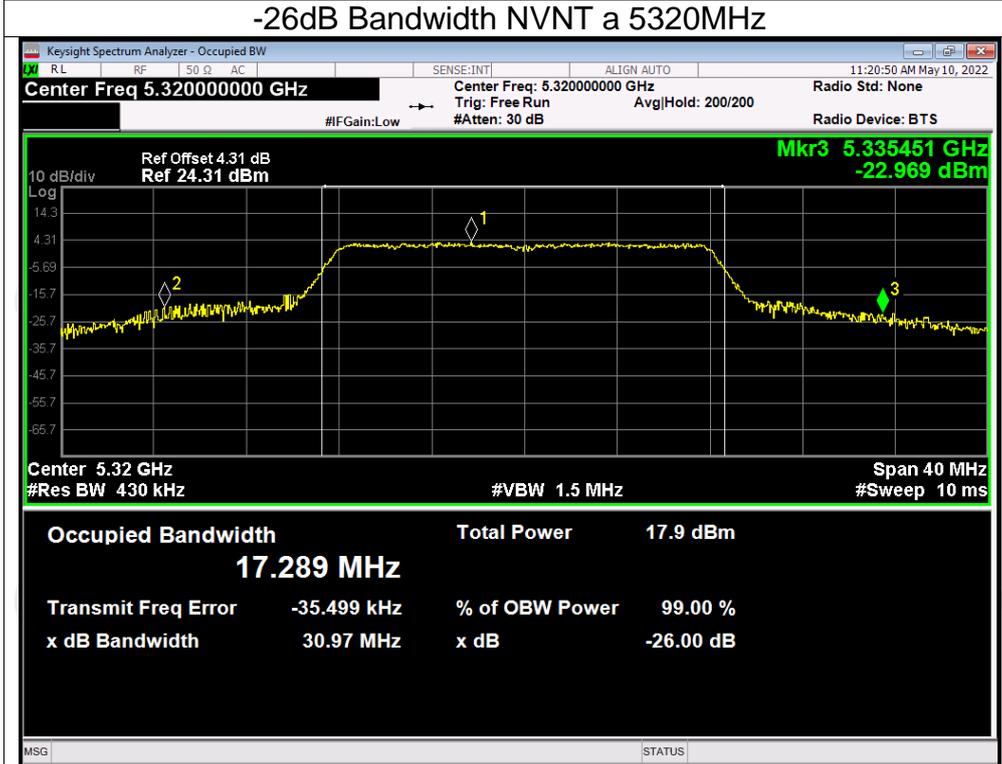
-26dB Bandwidth NVNT a 5260MHz



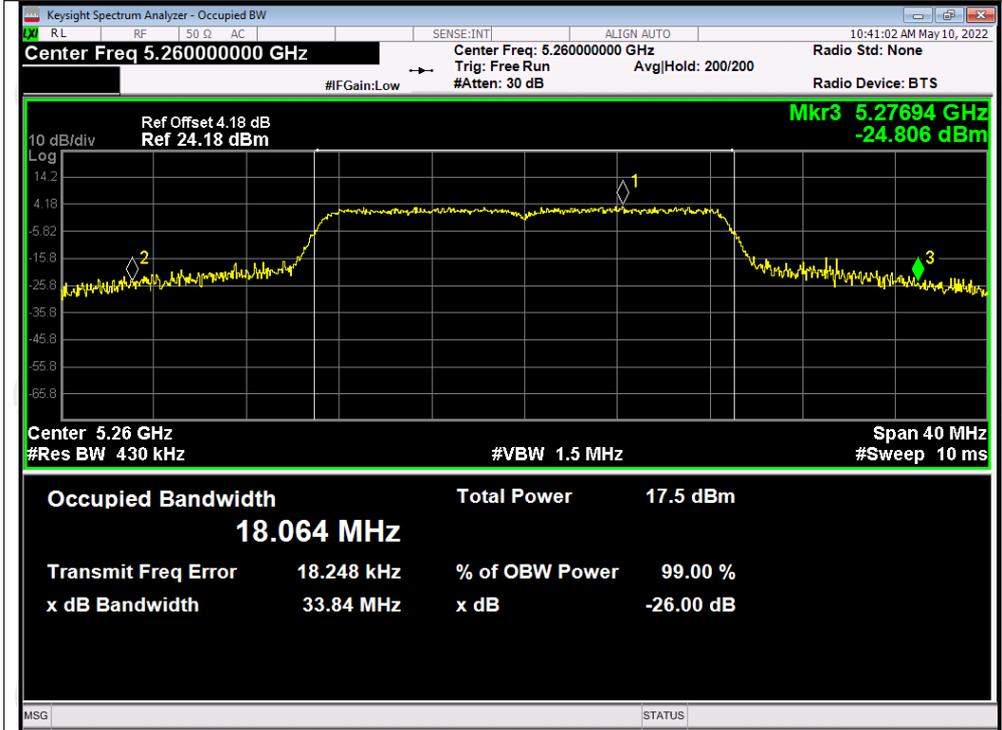
-26dB Bandwidth NVNT a 5300MHz



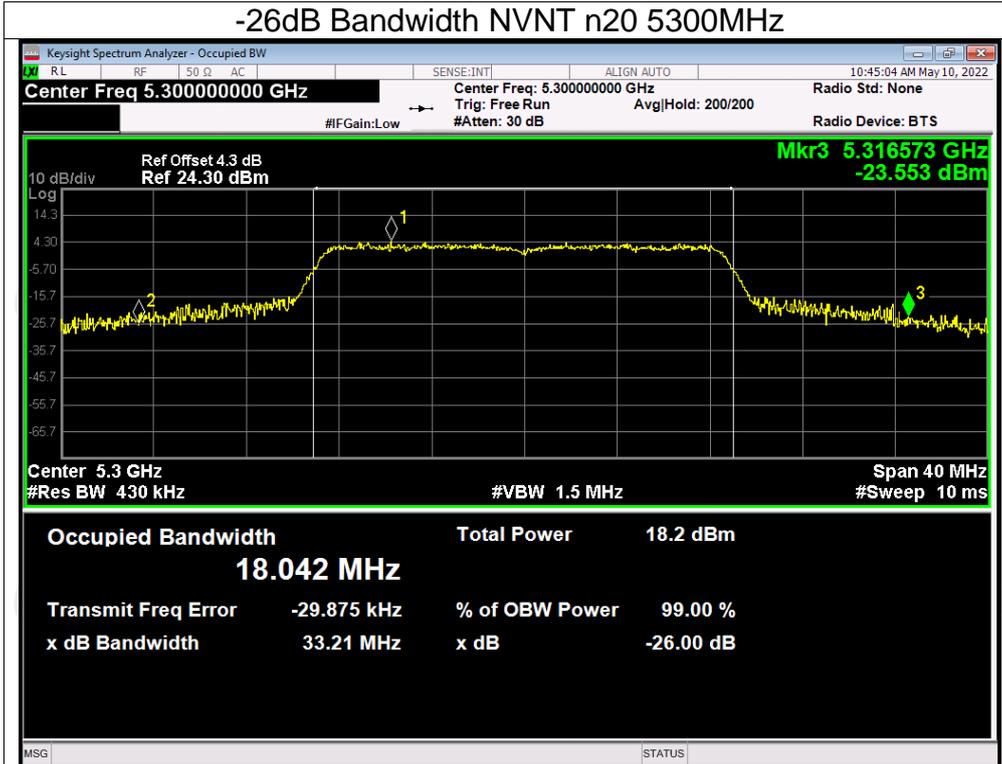
-26dB Bandwidth NVNT a 5320MHz



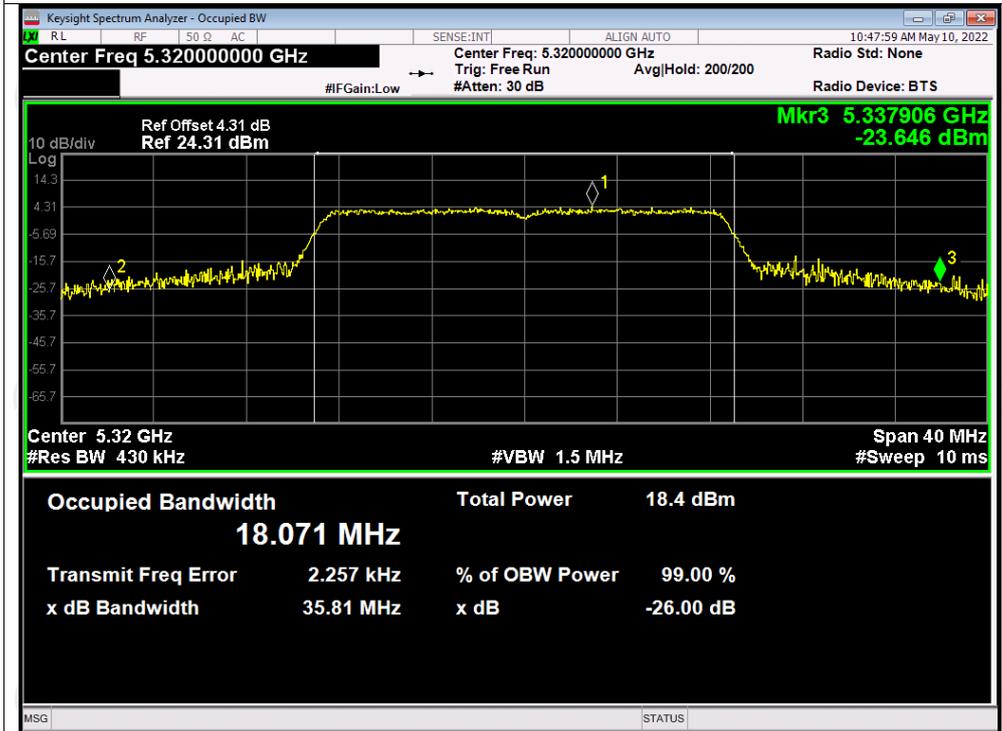
-26dB Bandwidth NVNT n20 5260MHz



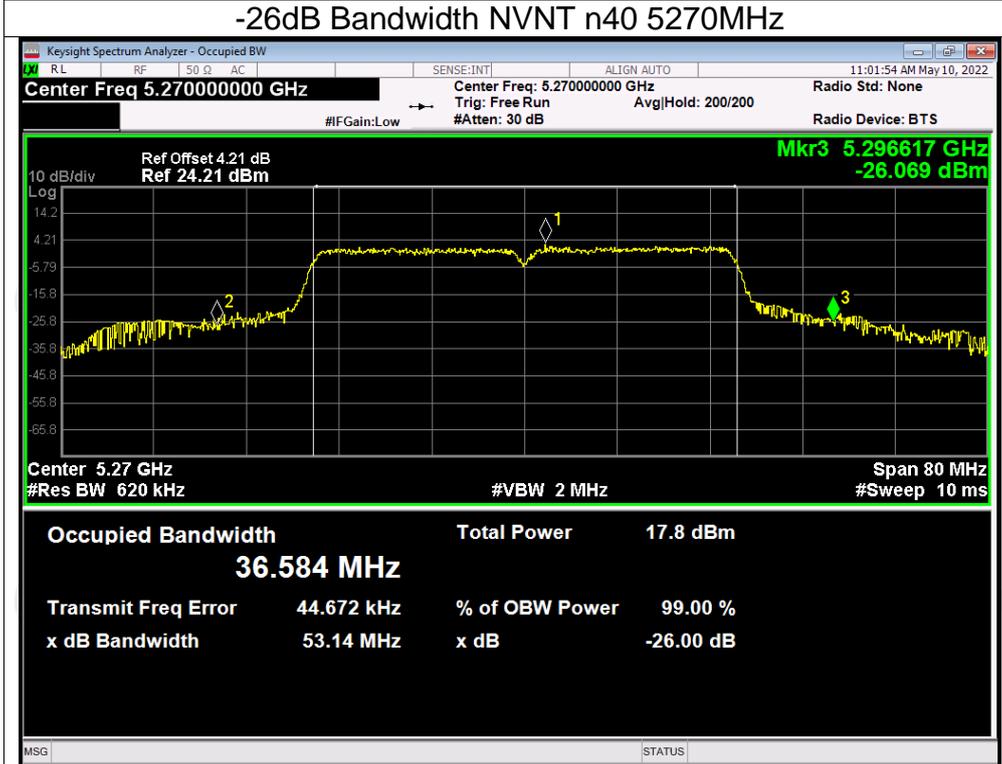
-26dB Bandwidth NVNT n20 5300MHz



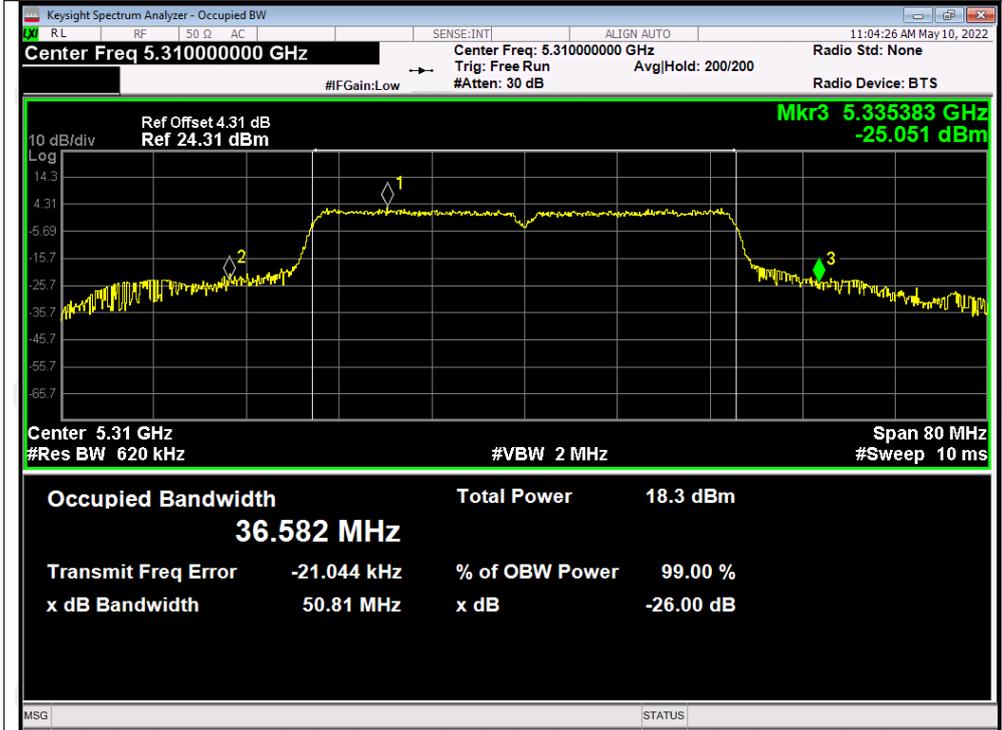
-26dB Bandwidth NVNT n20 5320MHz



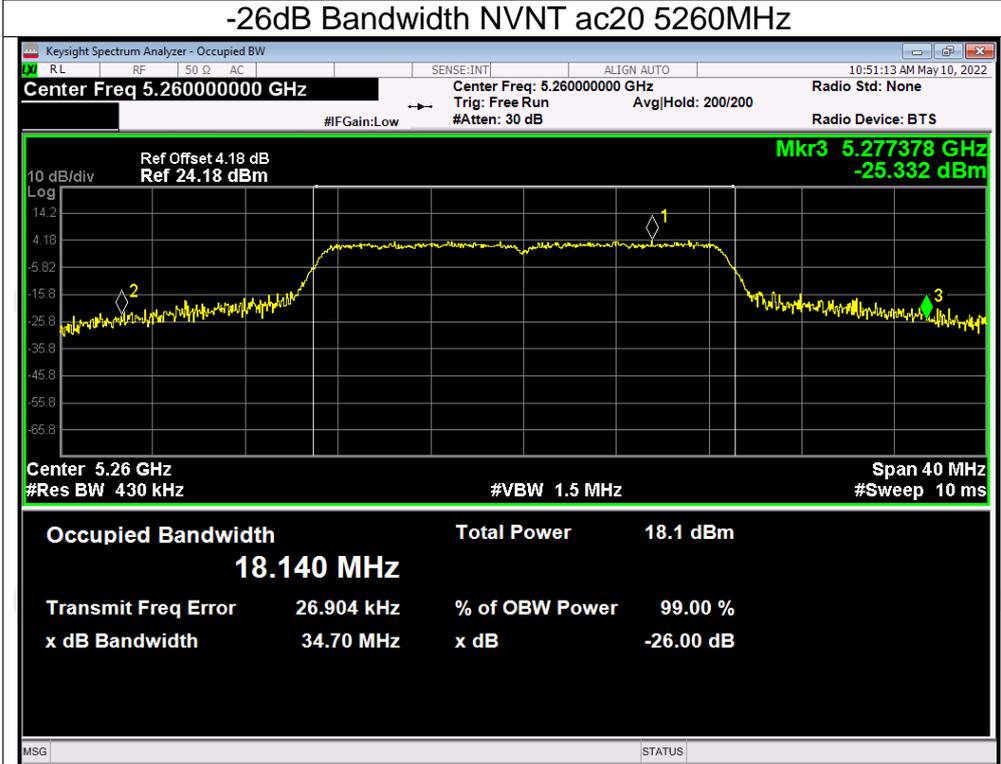
-26dB Bandwidth NVNT n40 5270MHz



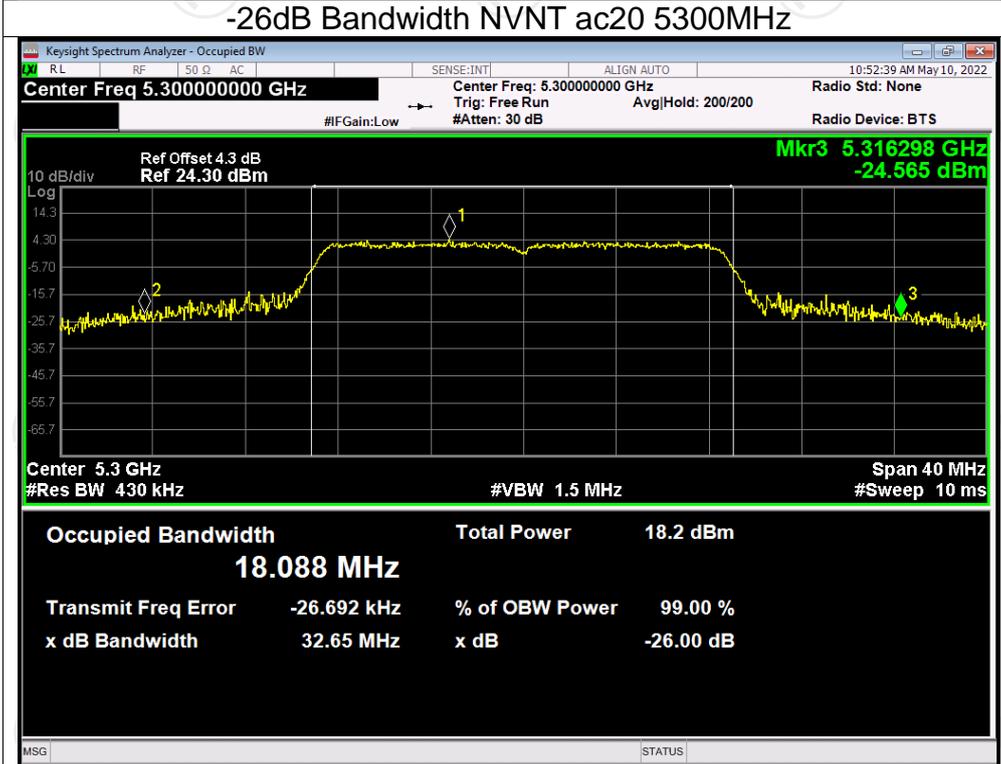
-26dB Bandwidth NVNT n40 5310MHz

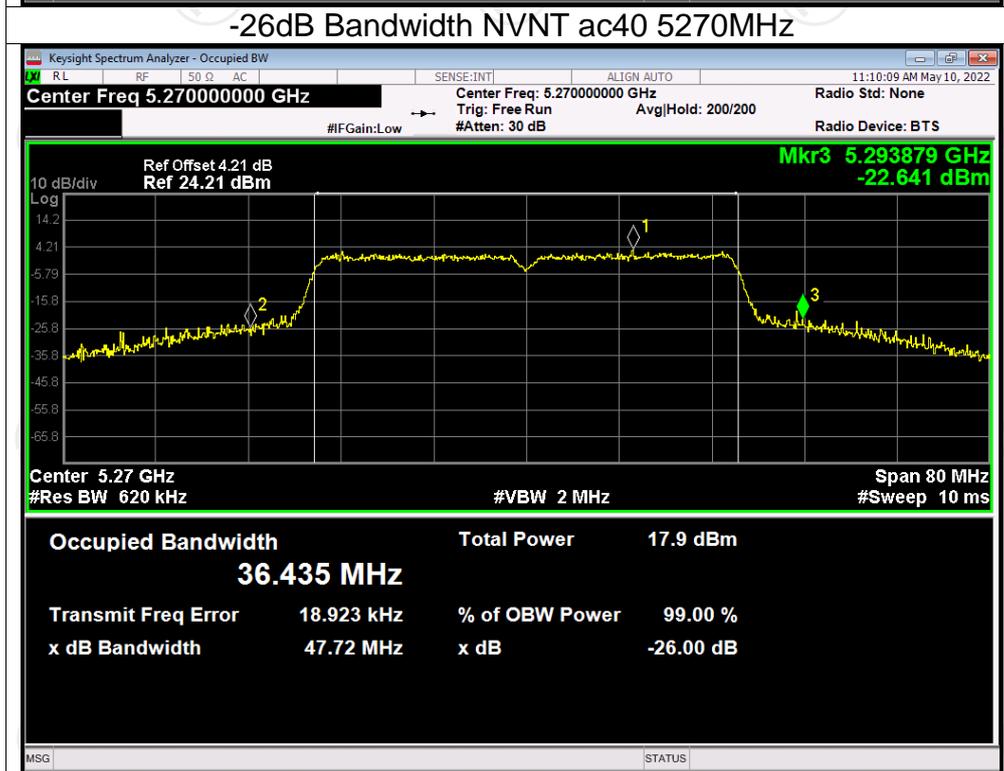
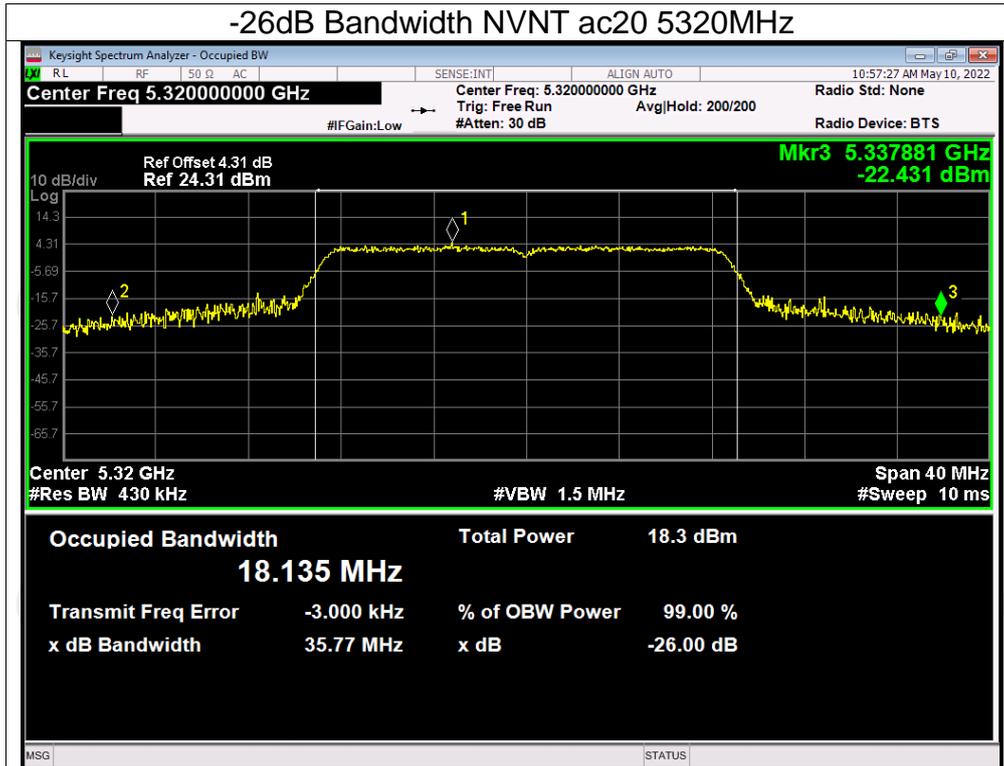


-26dB Bandwidth NVNT ac20 5260MHz

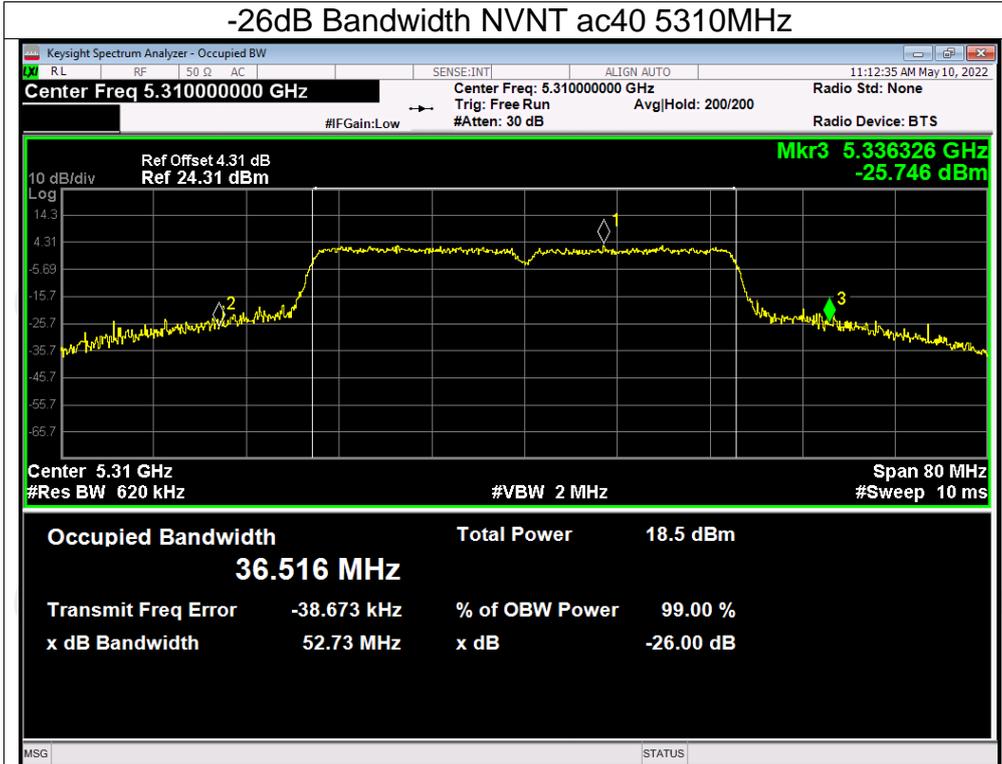


-26dB Bandwidth NVNT ac20 5300MHz

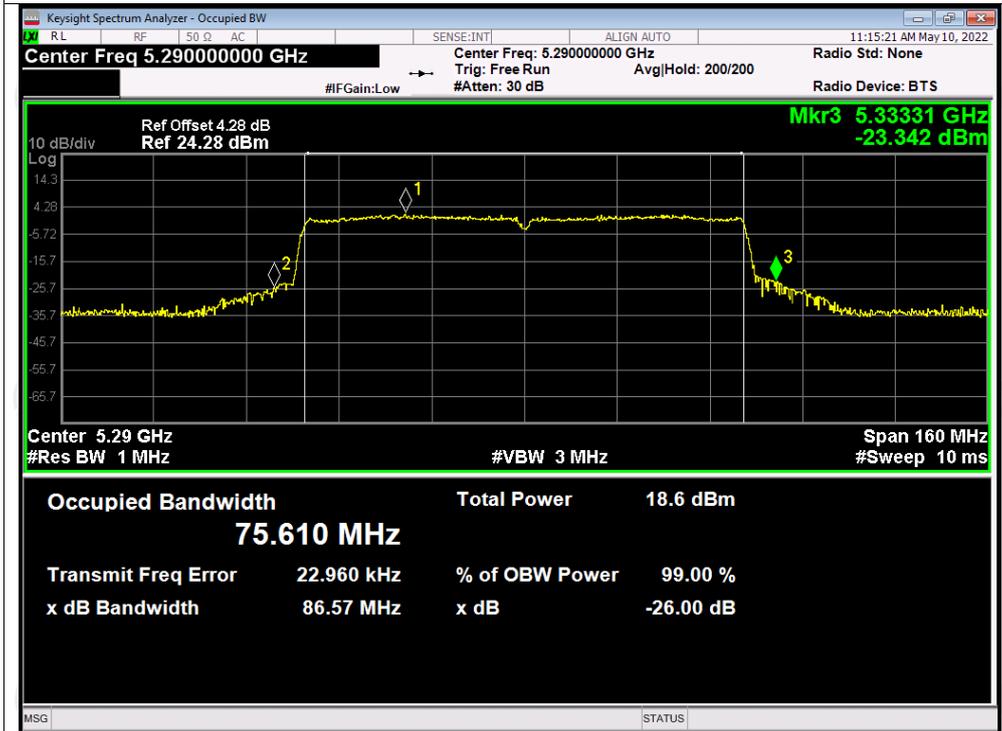




-26dB Bandwidth NVNT ac40 5310MHz



-26dB Bandwidth NVNT ac80 5290MHz

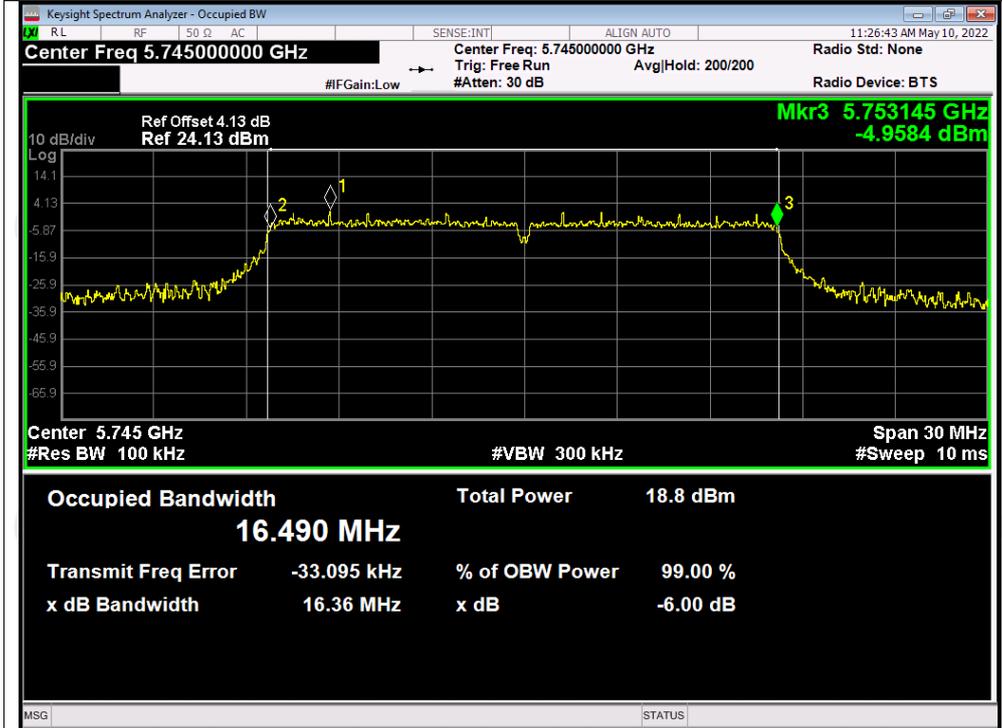


-6dB Bandwidth

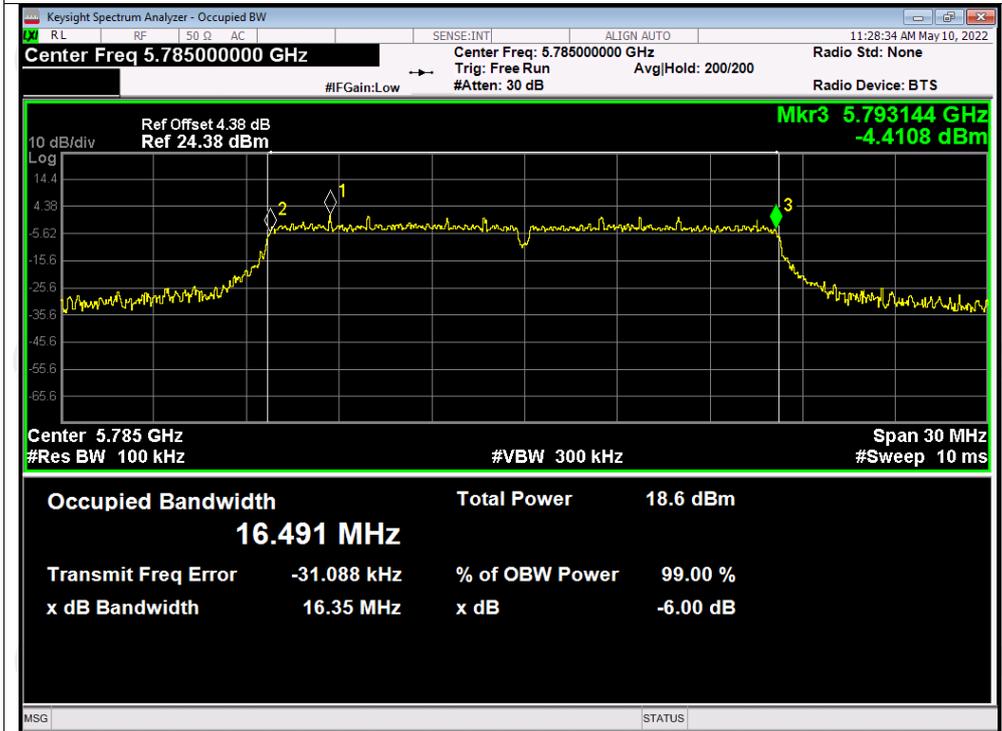
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.357	0.5	Pass
NVNT	a	5785	16.350	0.5	Pass
NVNT	a	5825	16.376	0.5	Pass
NVNT	n20	5745	17.433	0.5	Pass
NVNT	n20	5785	17.573	0.5	Pass
NVNT	n20	5825	17.547	0.5	Pass
NVNT	n40	5755	36.450	0.5	Pass
NVNT	n40	5795	36.212	0.5	Pass
NVNT	ac20	5745	17.402	0.5	Pass
NVNT	ac20	5785	17.399	0.5	Pass
NVNT	ac20	5825	17.559	0.5	Pass
NVNT	ac40	5755	36.335	0.5	Pass
NVNT	ac40	5795	36.053	0.5	Pass
NVNT	ac80	5775	75.680	0.5	Pass

Test Graphs

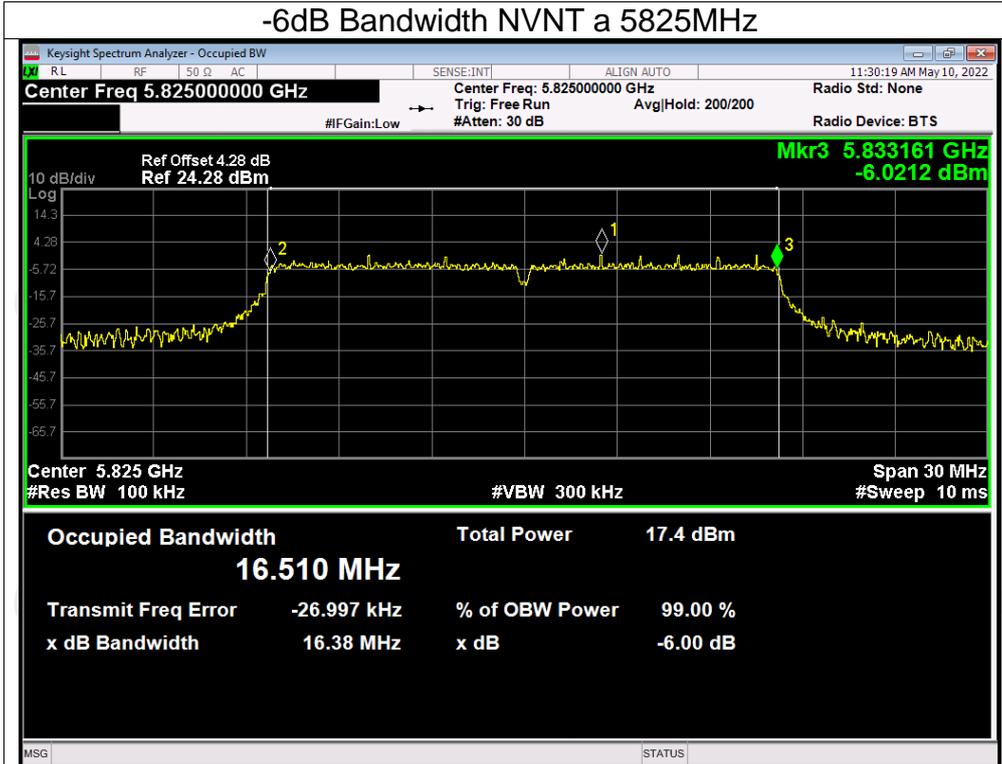
-6dB Bandwidth NVNT a 5745MHz



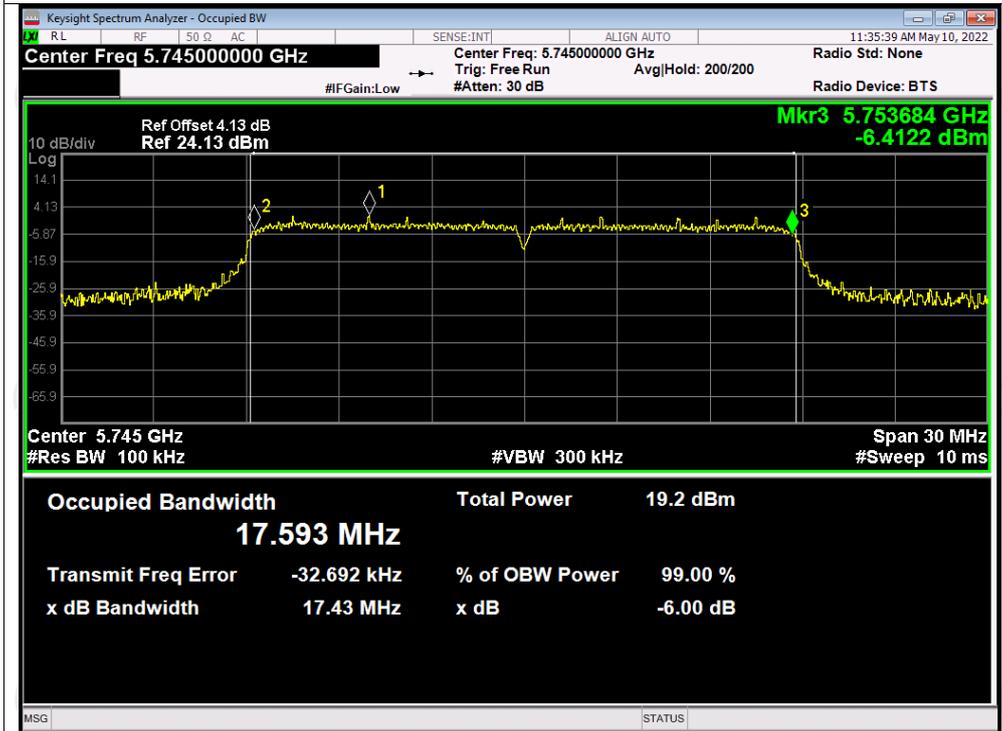
-6dB Bandwidth NVNT a 5785MHz

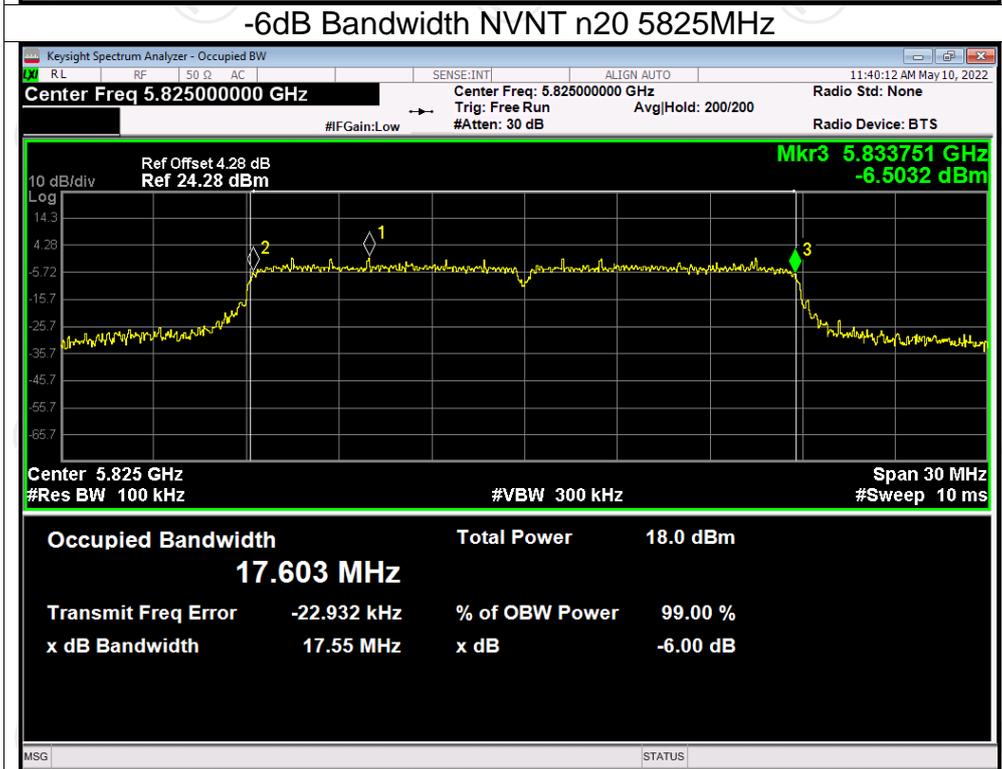
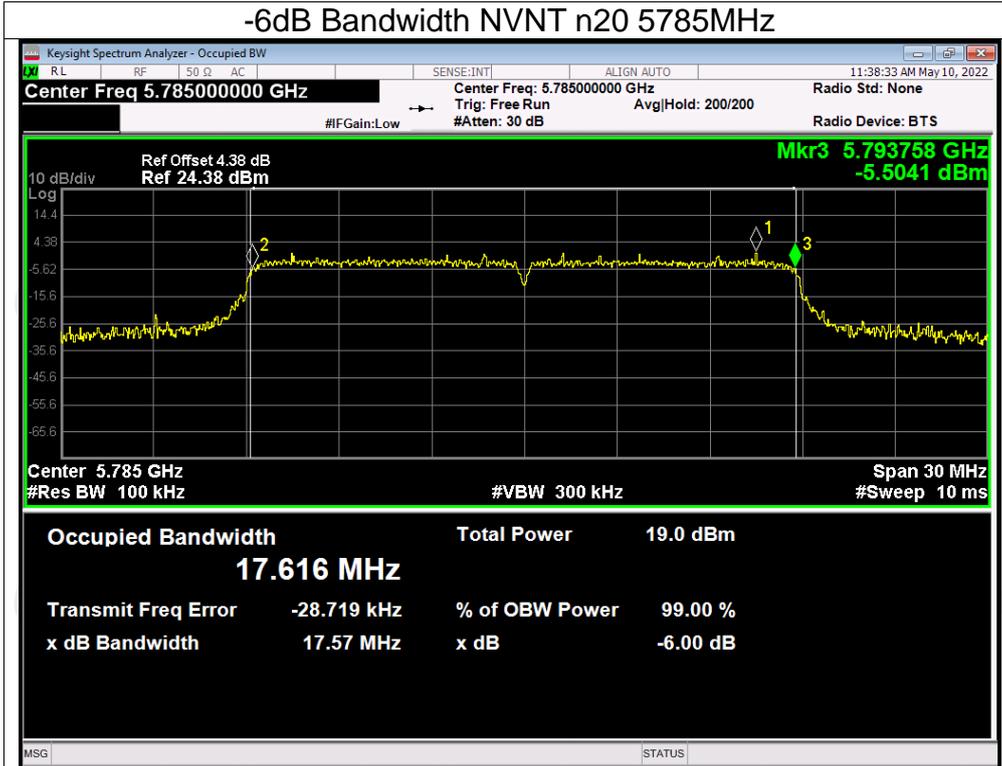


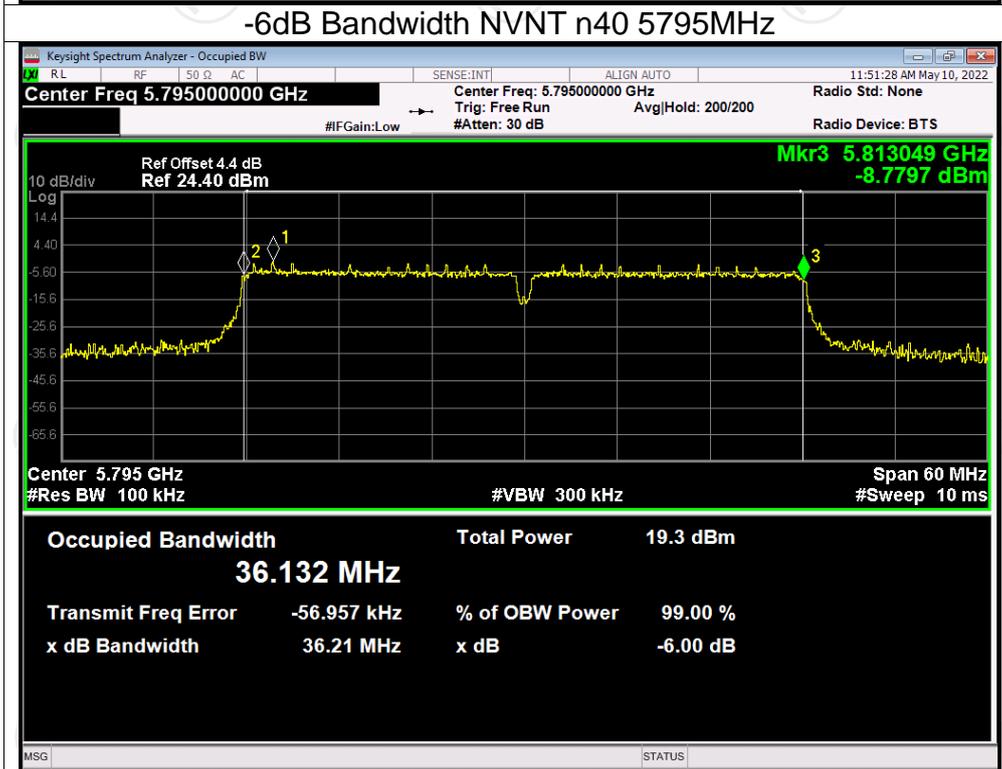
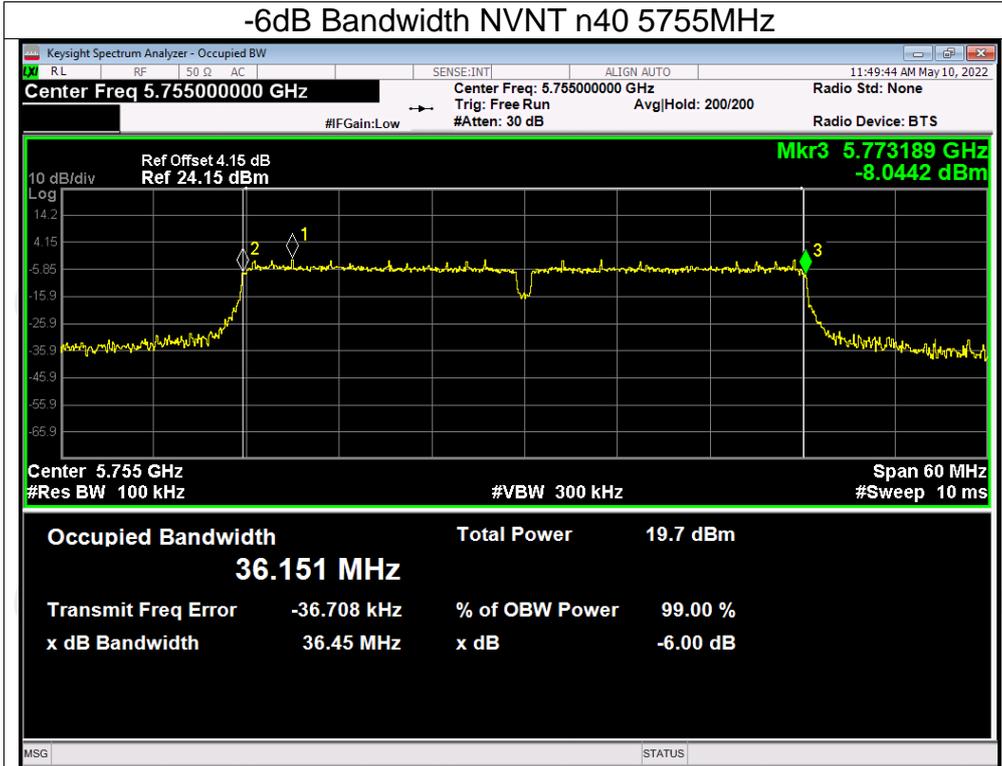
-6dB Bandwidth NVNT a 5825MHz

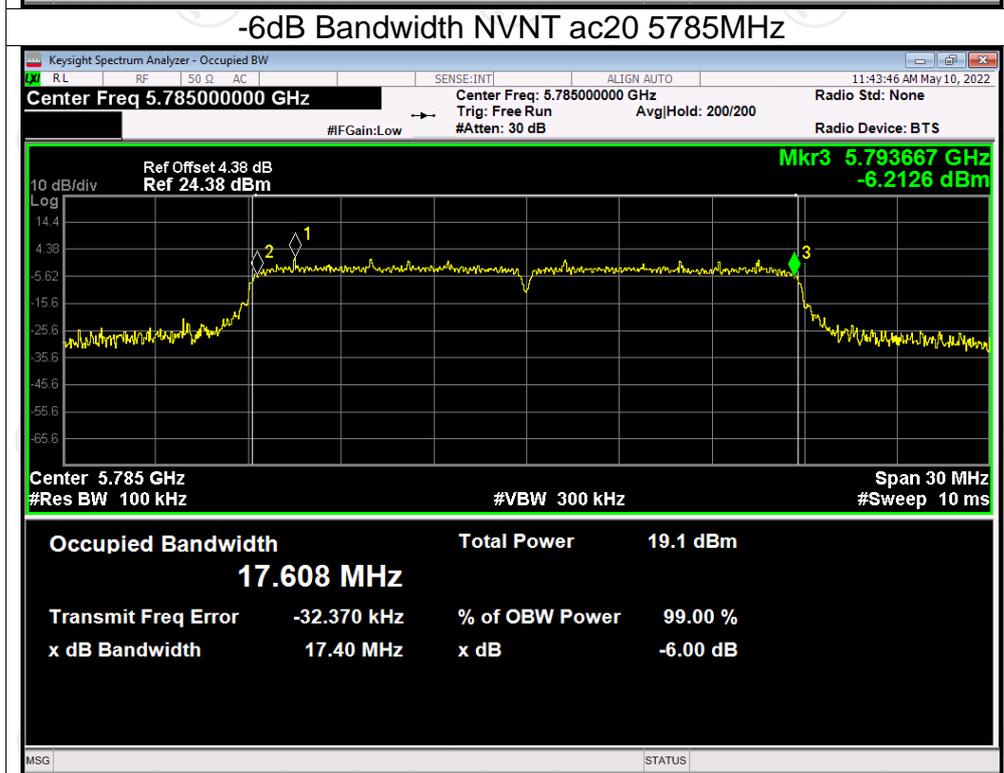
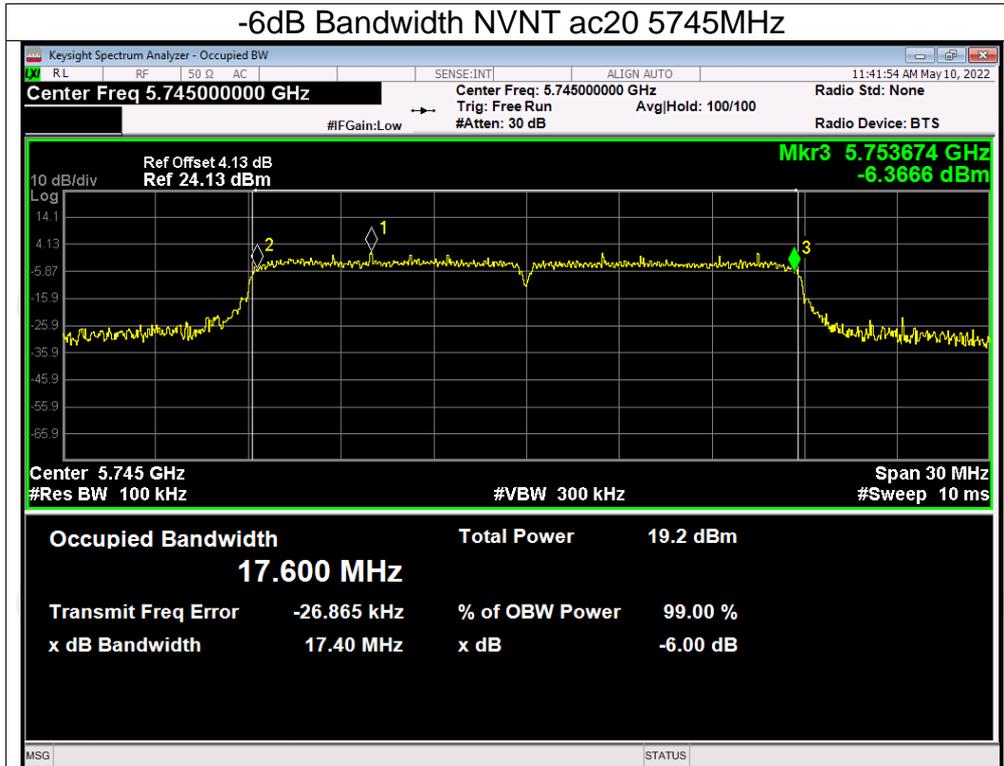


-6dB Bandwidth NVNT n20 5745MHz

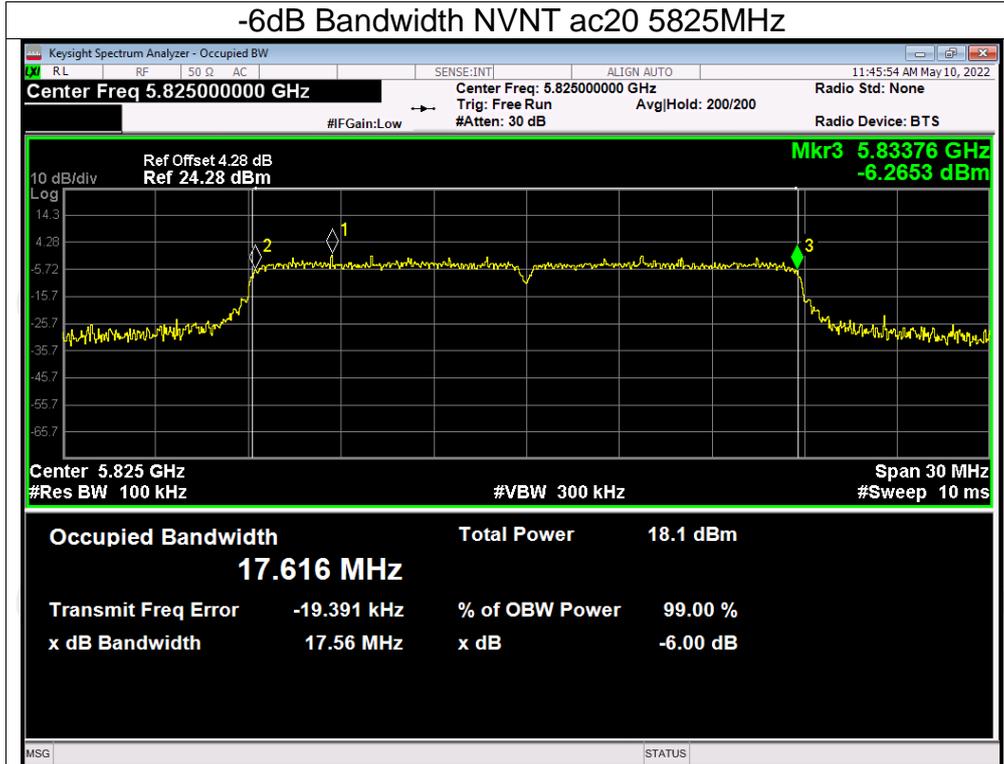




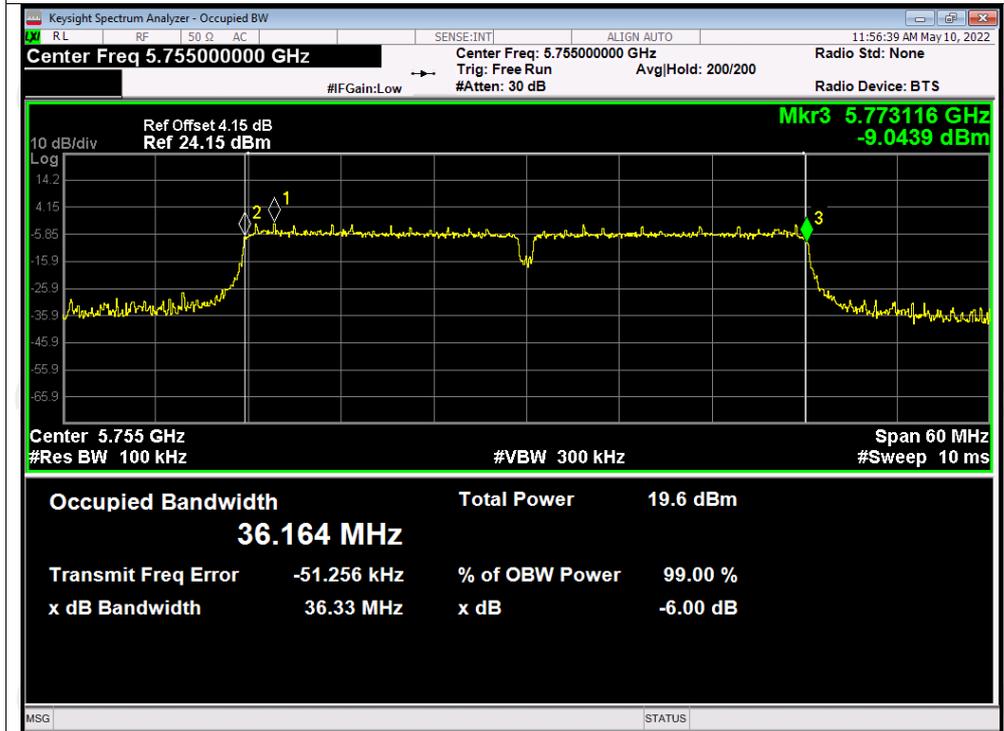




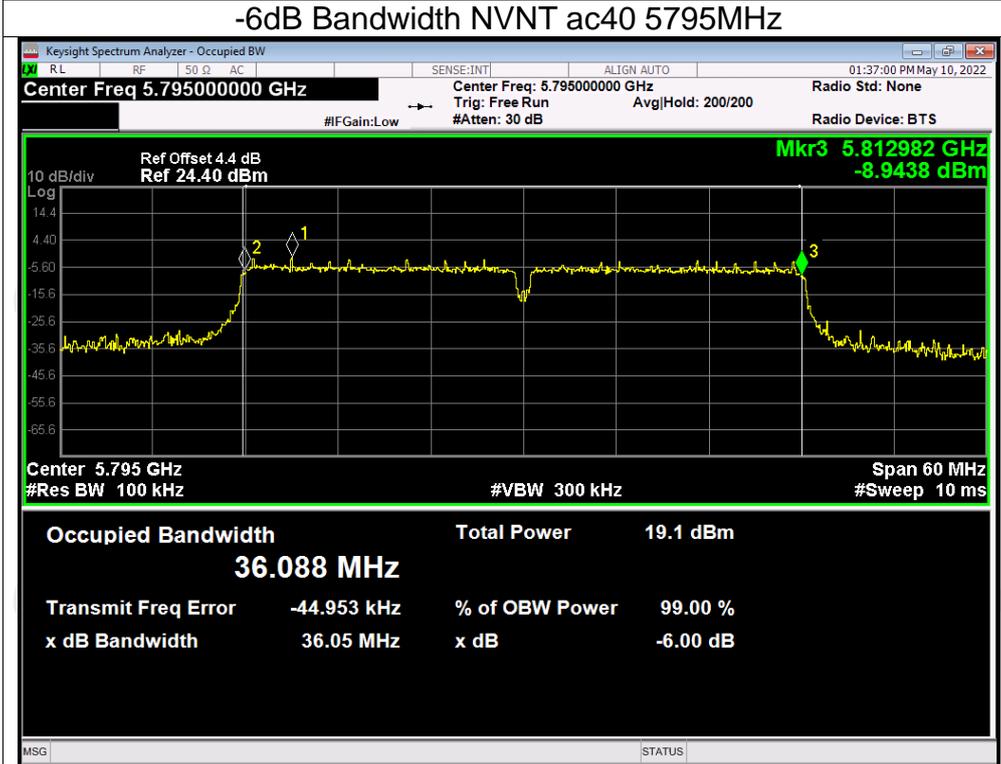
-6dB Bandwidth NVNT ac20 5825MHz



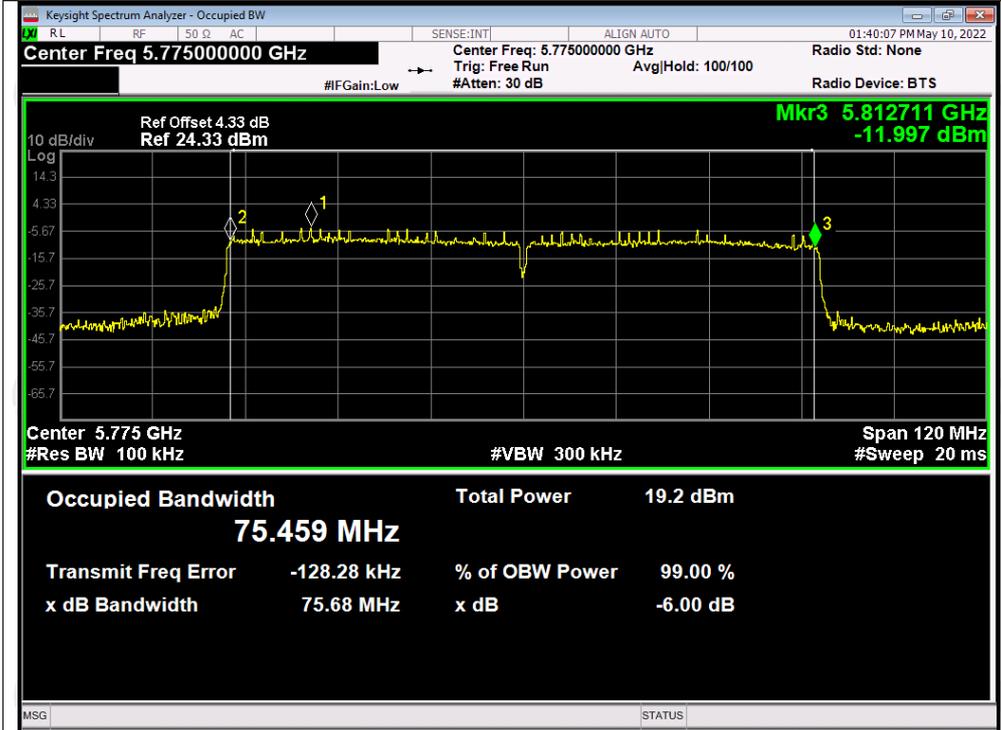
-6dB Bandwidth NVNT ac40 5755MHz



-6dB Bandwidth NVNT ac40 5795MHz



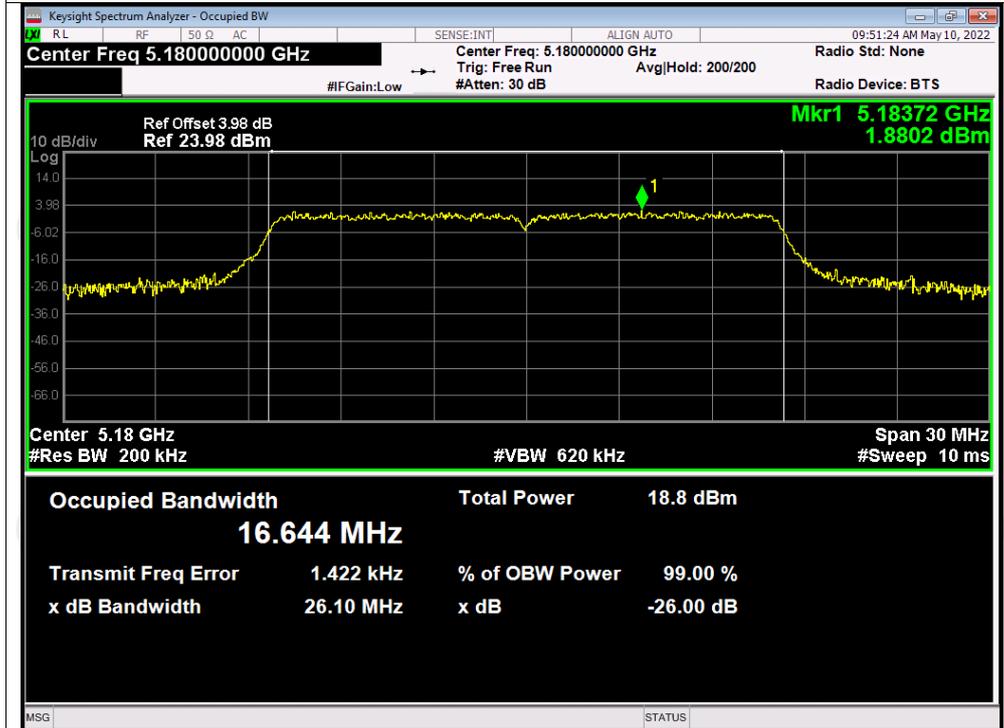
-6dB Bandwidth NVNT ac80 5775MHz



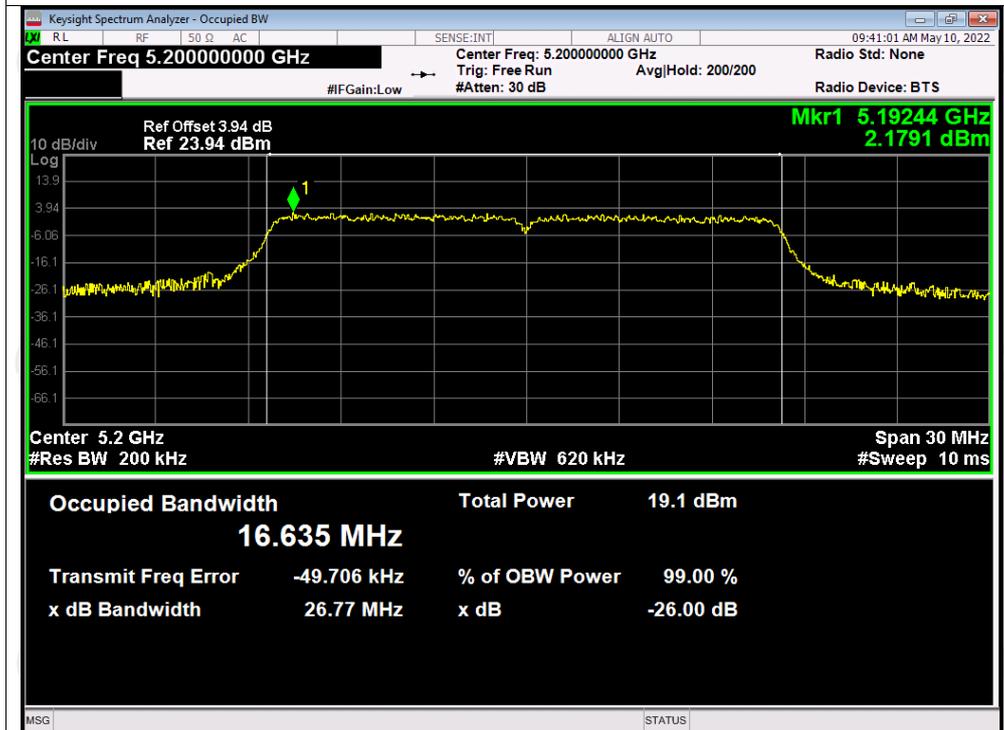
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.644
NVNT	a	5200	16.635
NVNT	a	5240	16.641
NVNT	n20	5180	17.661
NVNT	n20	5200	17.691
NVNT	n20	5240	17.659
NVNT	n40	5190	36.279
NVNT	n40	5230	36.301
NVNT	ac20	5180	17.667
NVNT	ac20	5200	17.690
NVNT	ac20	5240	17.669
NVNT	ac40	5190	36.249
NVNT	ac40	5230	36.309
NVNT	ac80	5210	75.452
NVNT	a	5260	16.656
NVNT	a	5300	16.637
NVNT	a	5320	16.656
NVNT	n20	5260	17.701
NVNT	n20	5300	17.704
NVNT	n20	5320	17.690
NVNT	n40	5270	36.346
NVNT	n40	5310	36.327
NVNT	ac20	5260	17.725
NVNT	ac20	5300	17.706
NVNT	ac20	5320	17.730
NVNT	ac40	5270	36.277
NVNT	ac40	5310	36.310
NVNT	ac80	5290	75.515
NVNT	a	5745	16.680
NVNT	a	5785	16.661
NVNT	a	5825	16.650
NVNT	n20	5745	17.713
NVNT	n20	5785	17.712
NVNT	n20	5825	17.735
NVNT	n40	5755	36.377
NVNT	n40	5795	36.345
NVNT	ac20	5745	17.748
NVNT	ac20	5785	18.060
NVNT	ac20	5825	17.729
NVNT	ac40	5755	36.348
NVNT	ac40	5795	36.324
NVNT	ac80	5775	75.488

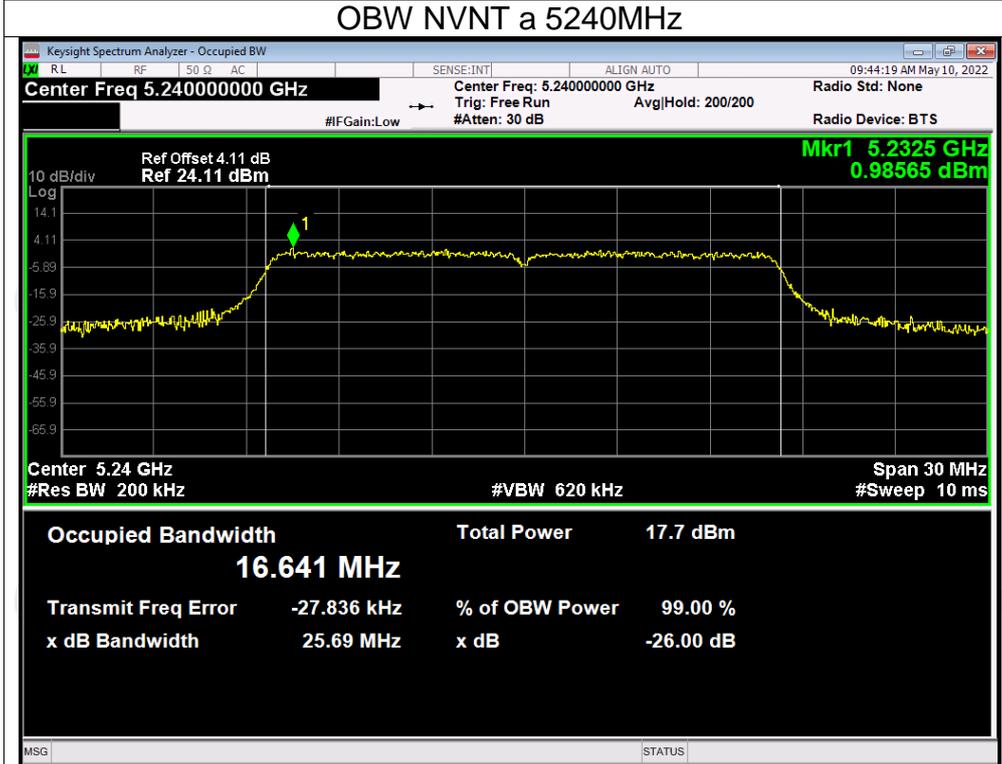
Test Graphs OBW NVNT a 5180MHz



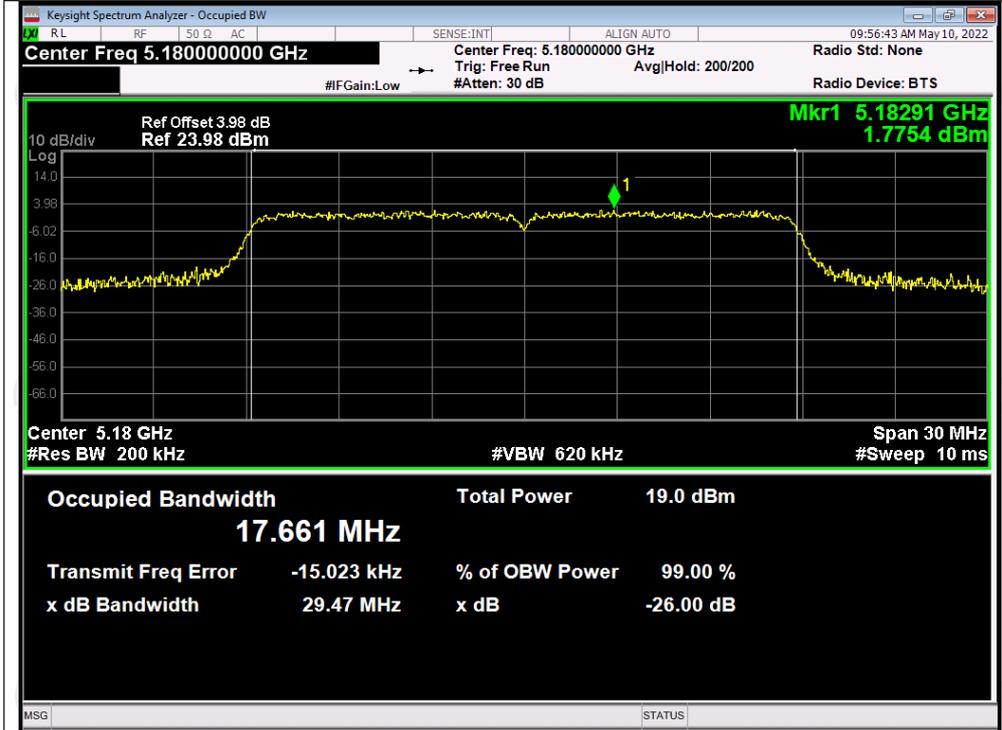
OBW NVNT a 5200MHz

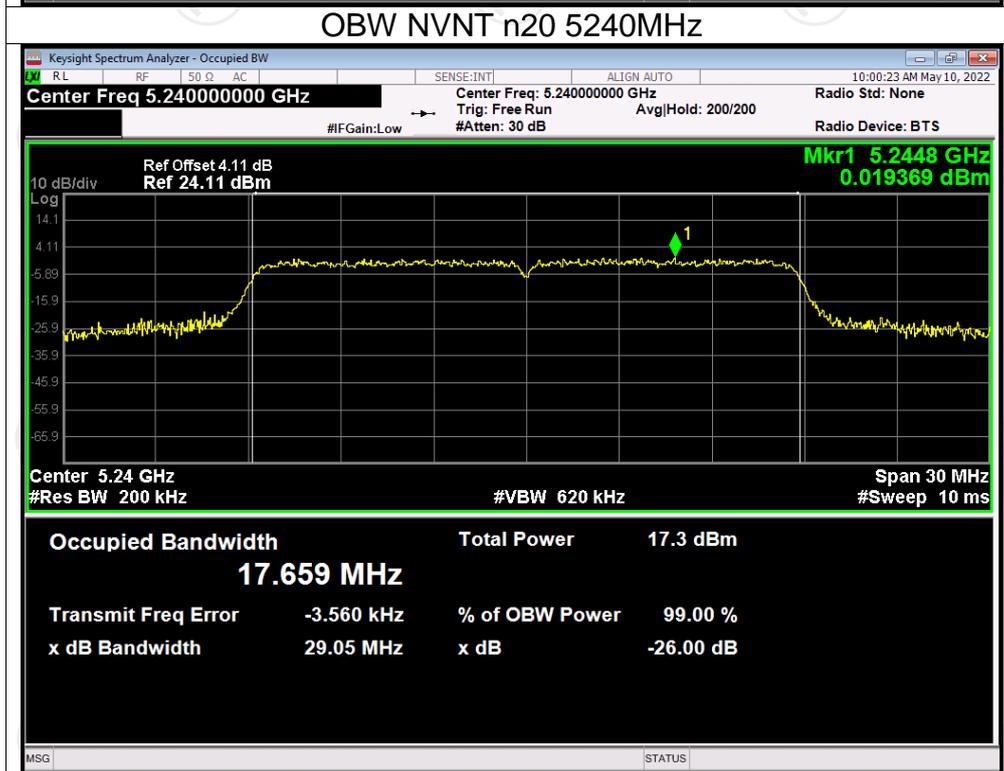
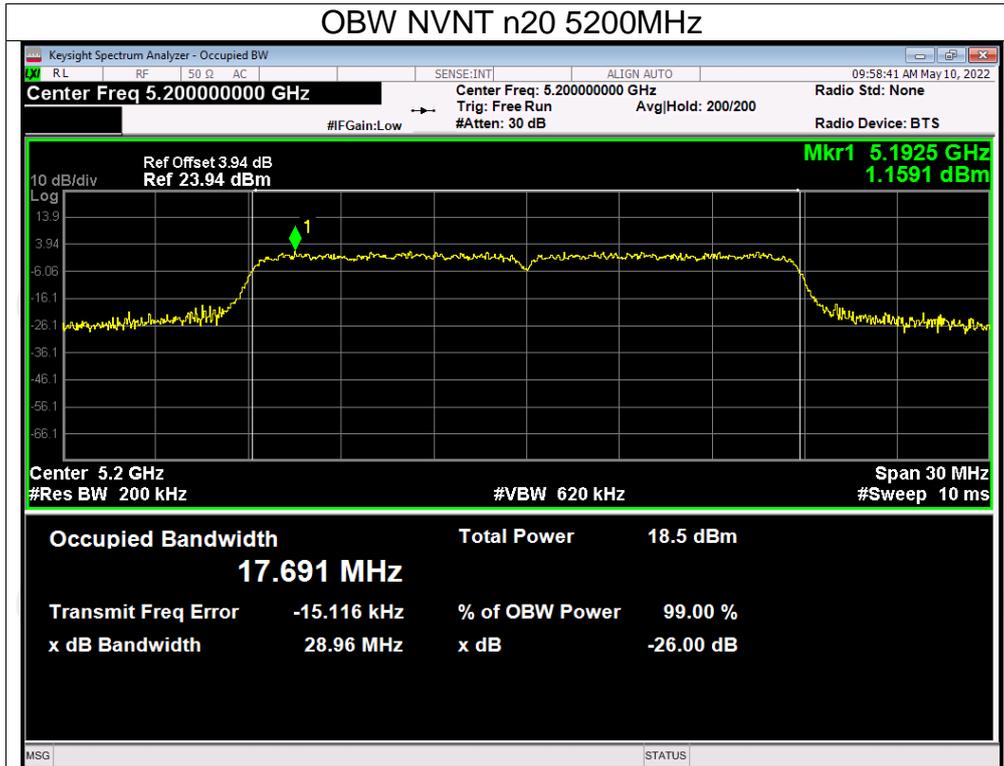


OBW NVNT a 5240MHz

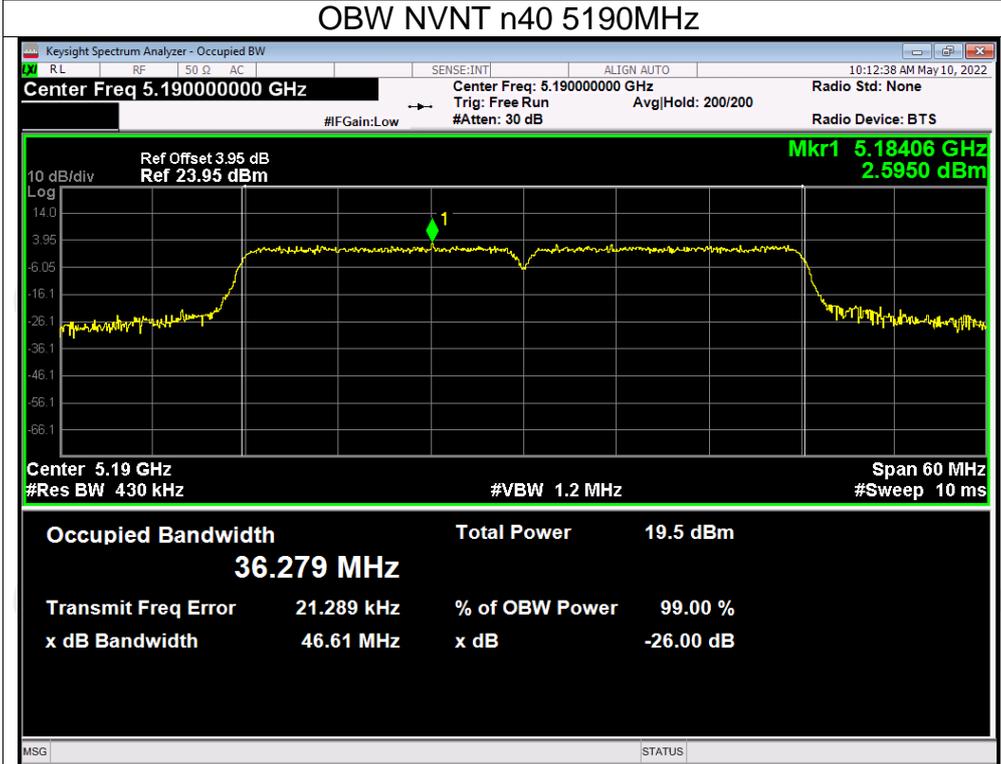


OBW NVNT n20 5180MHz

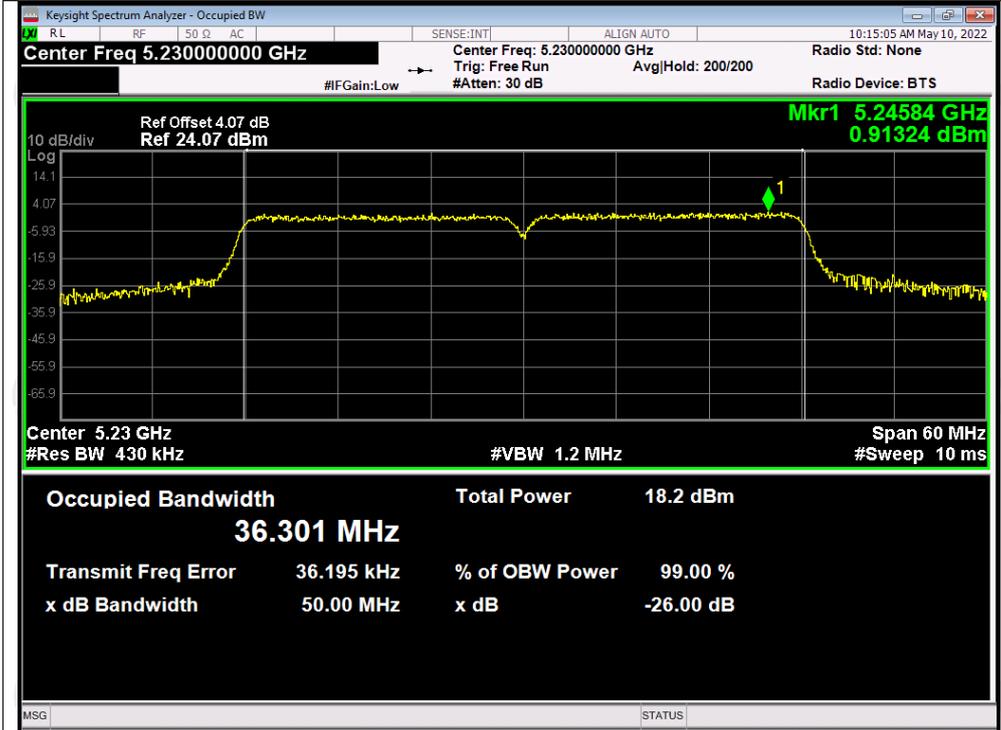




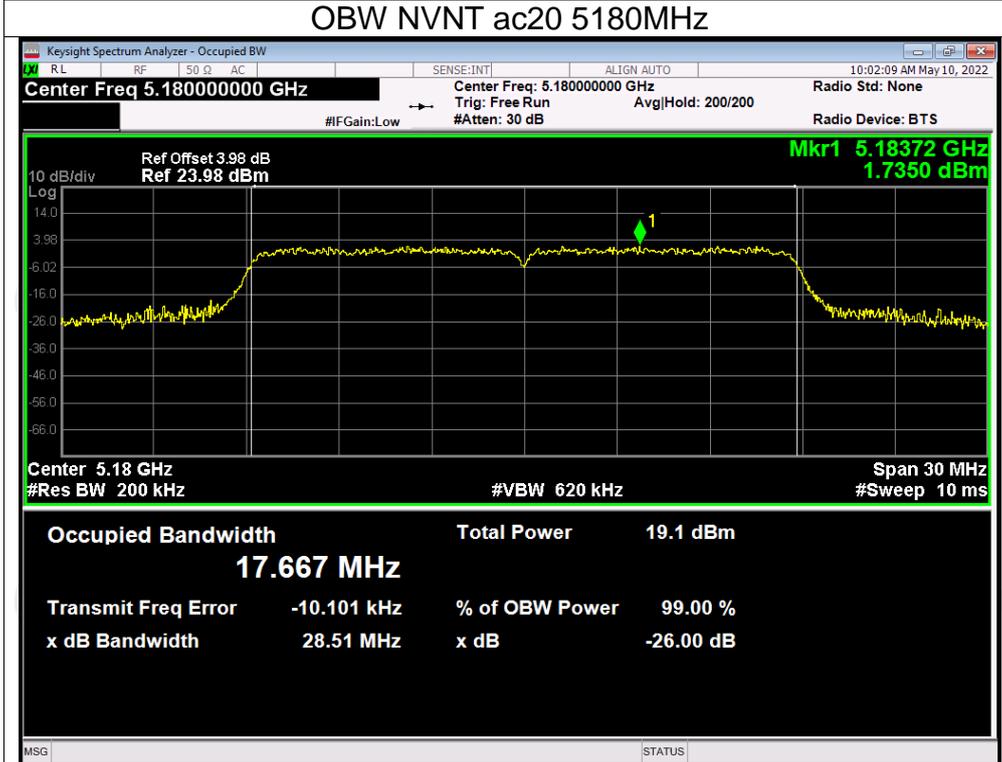
OBW NVNT n40 5190MHz



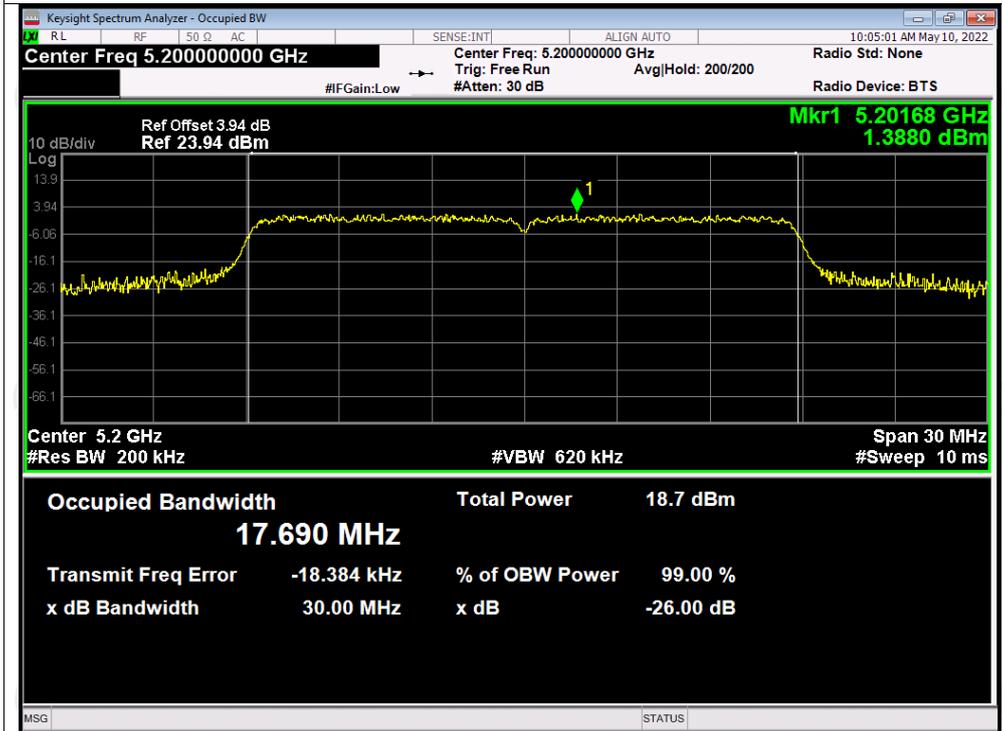
OBW NVNT n40 5230MHz



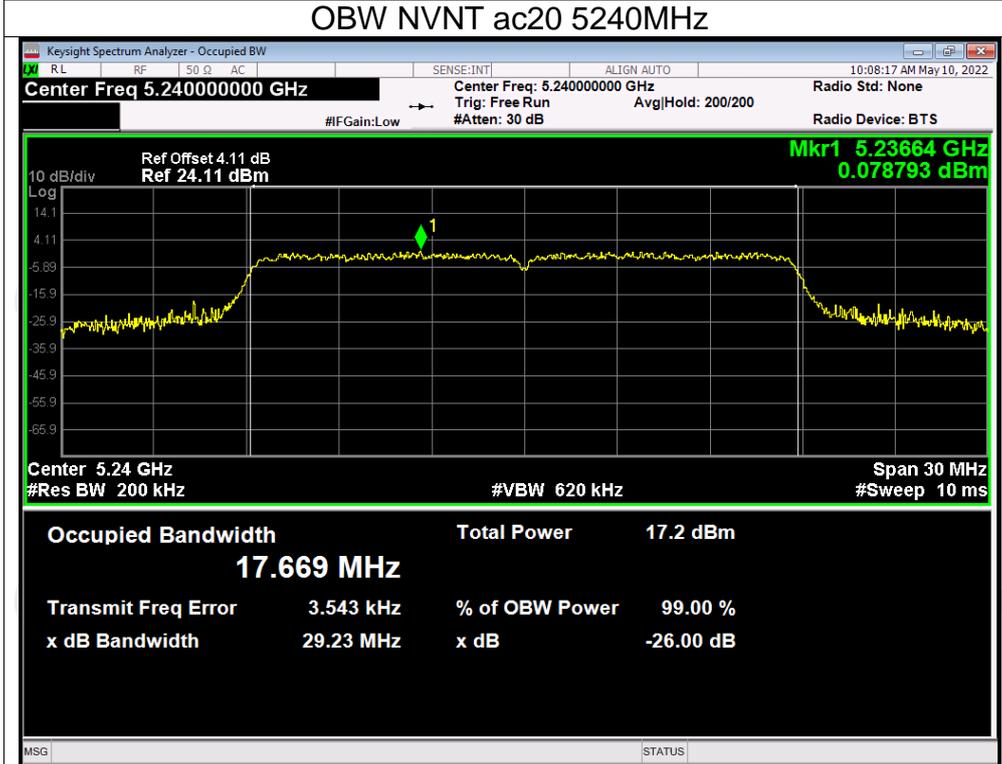
OBW NVNT ac20 5180MHz



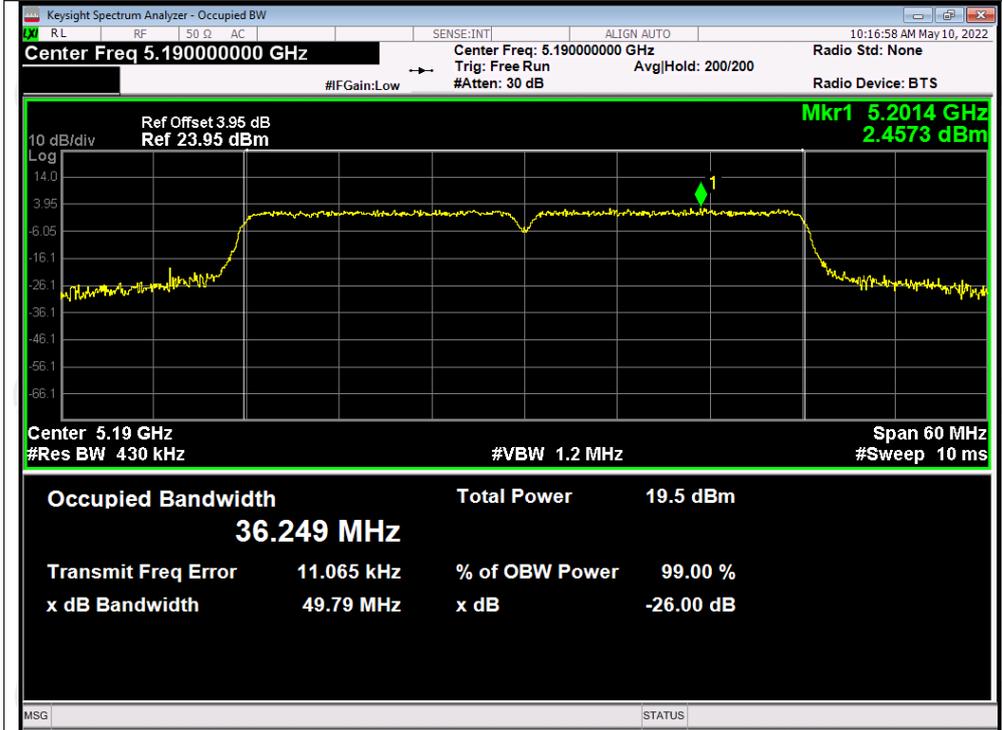
OBW NVNT ac20 5200MHz



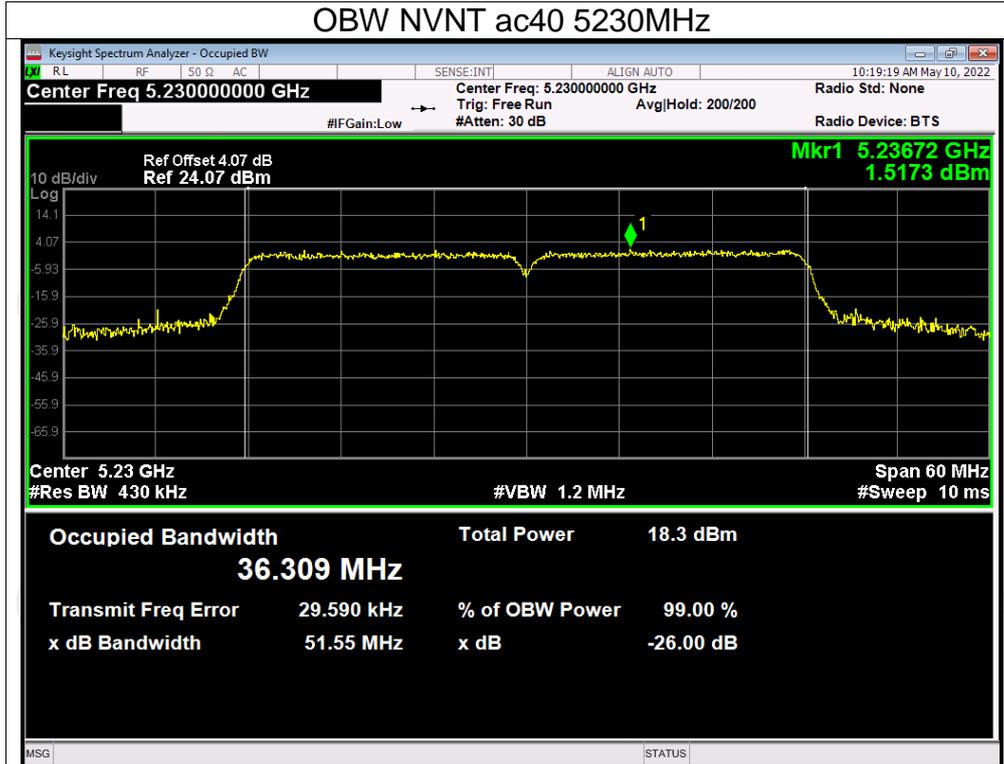
OBW NVNT ac20 5240MHz



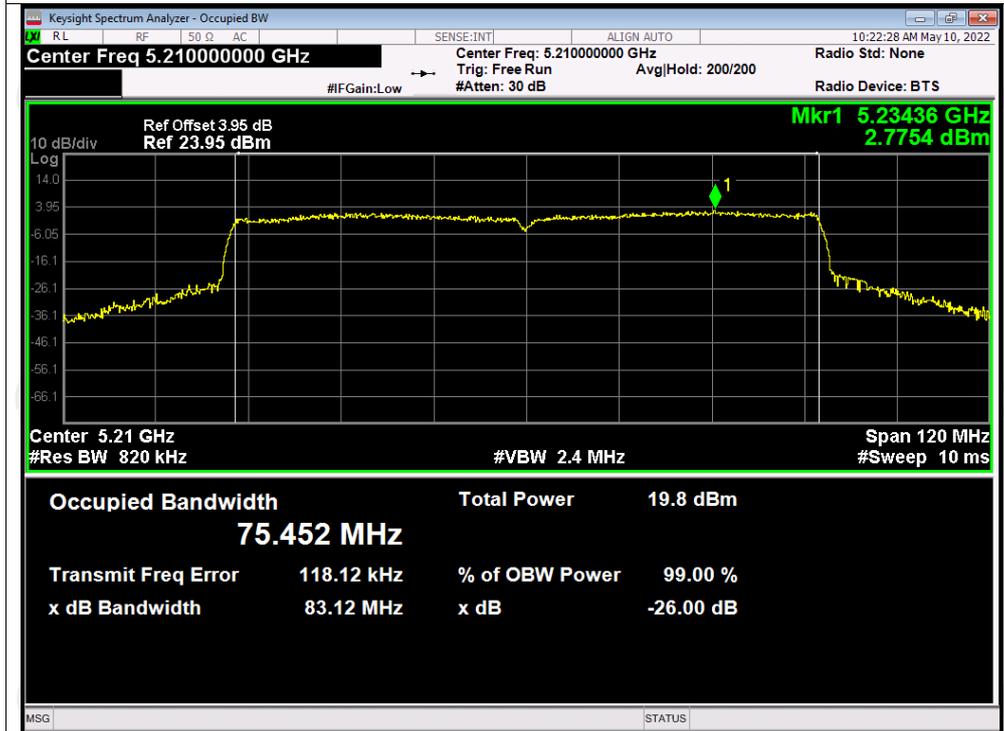
OBW NVNT ac40 5190MHz



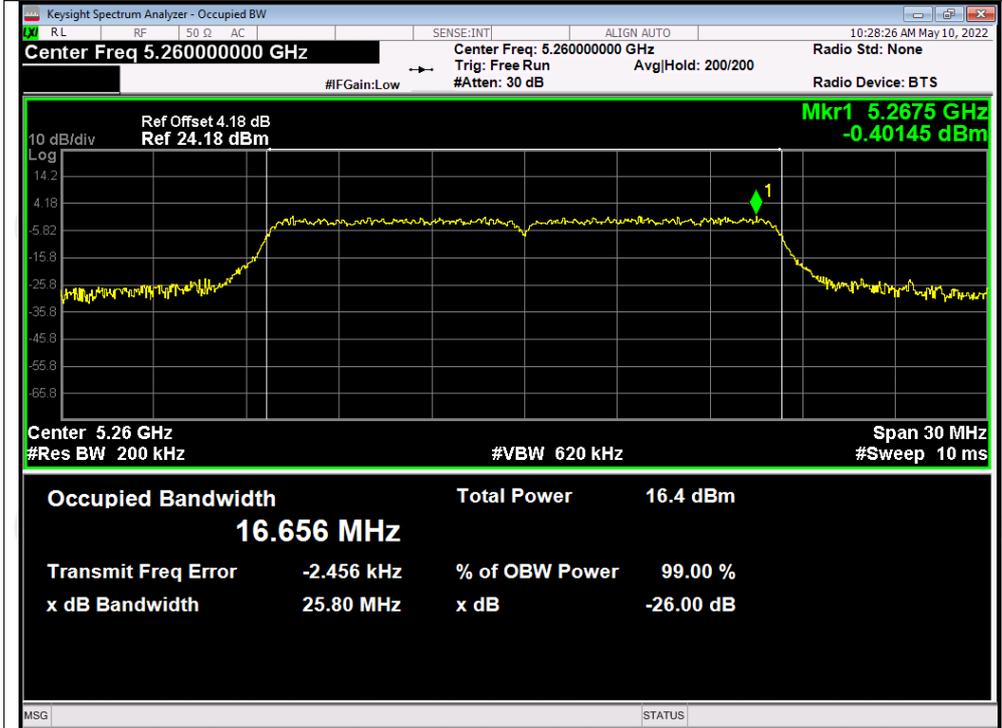
OBW NVNT ac40 5230MHz



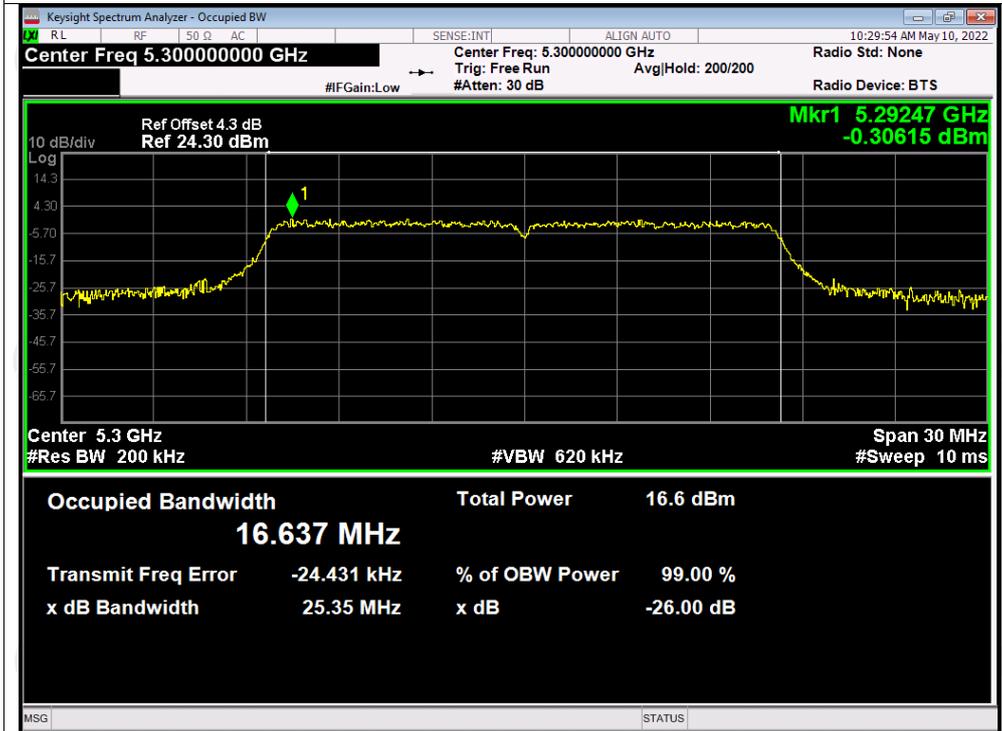
OBW NVNT ac80 5210MHz



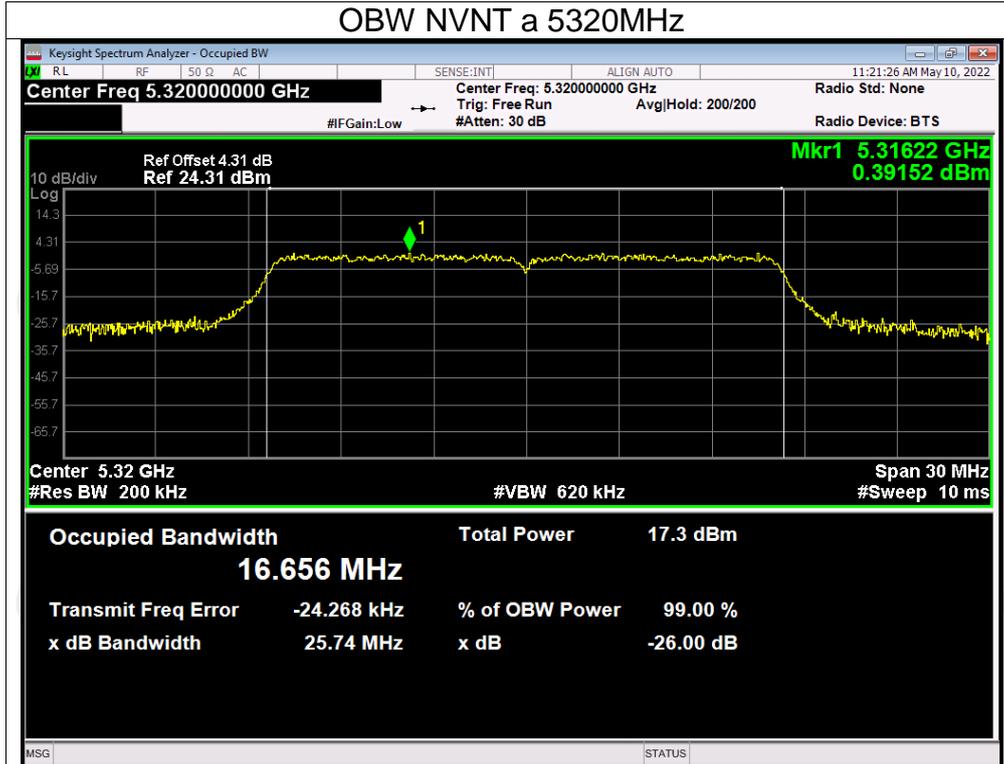
Test Graphs
OBW NVNT a 5260MHz



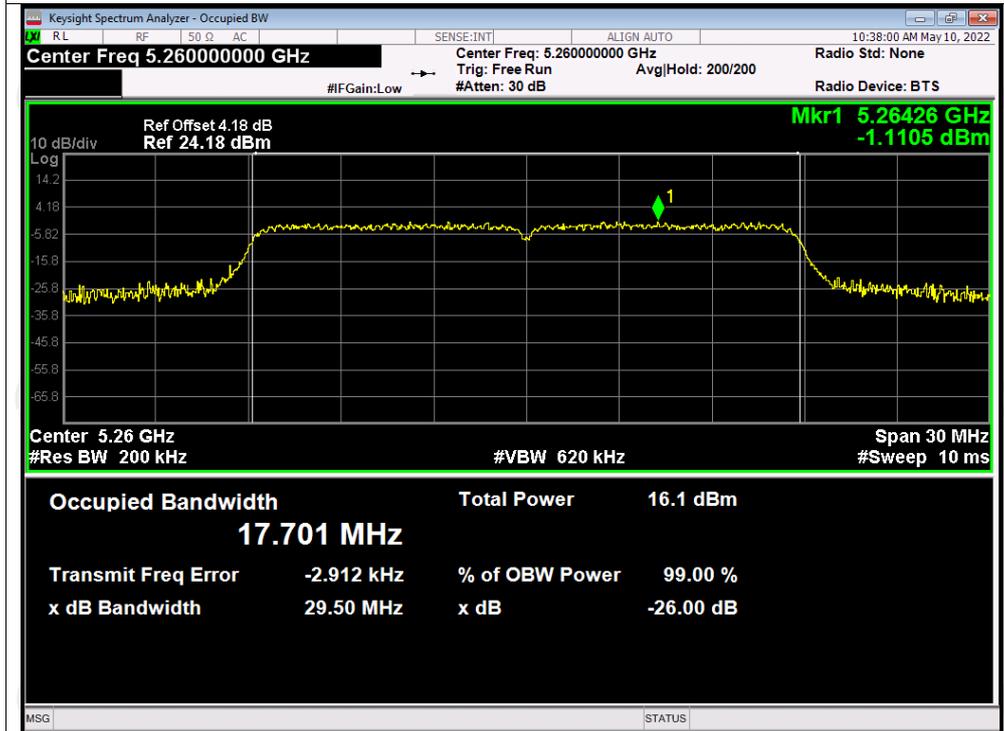
OBW NVNT a 5300MHz



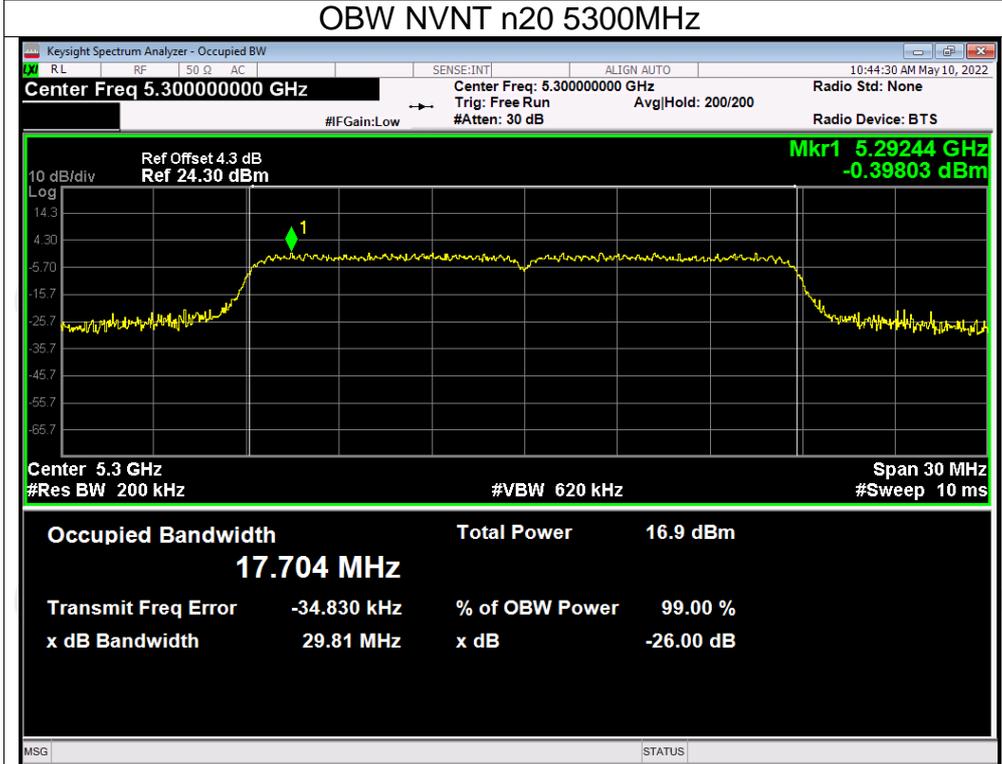
OBW NVNT a 5320MHz



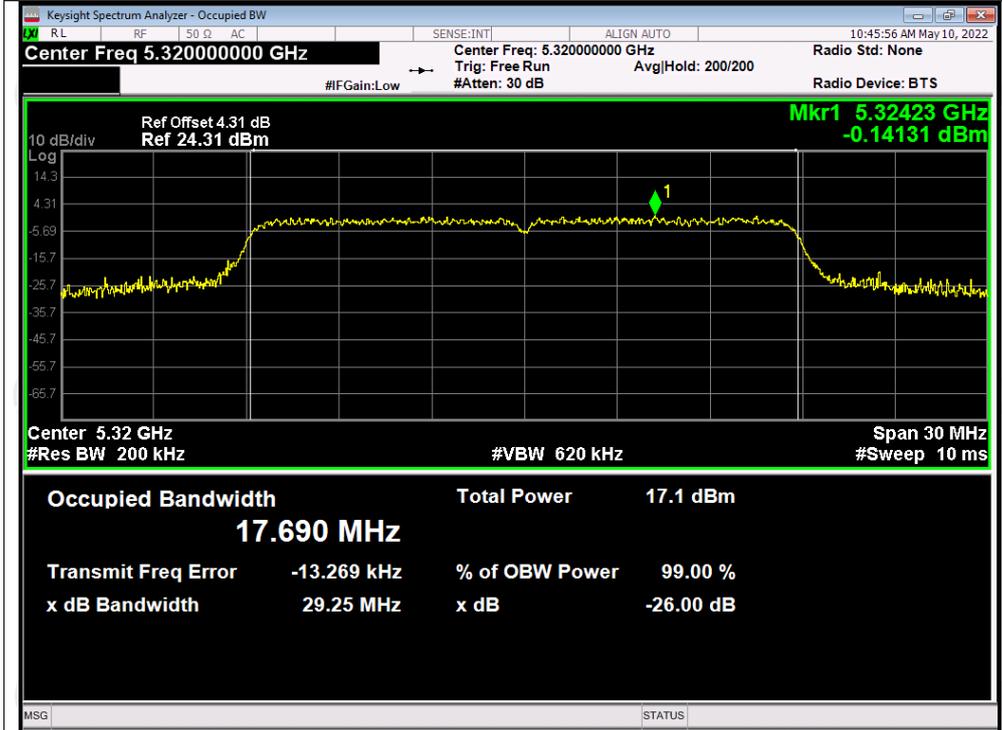
OBW NVNT n20 5260MHz



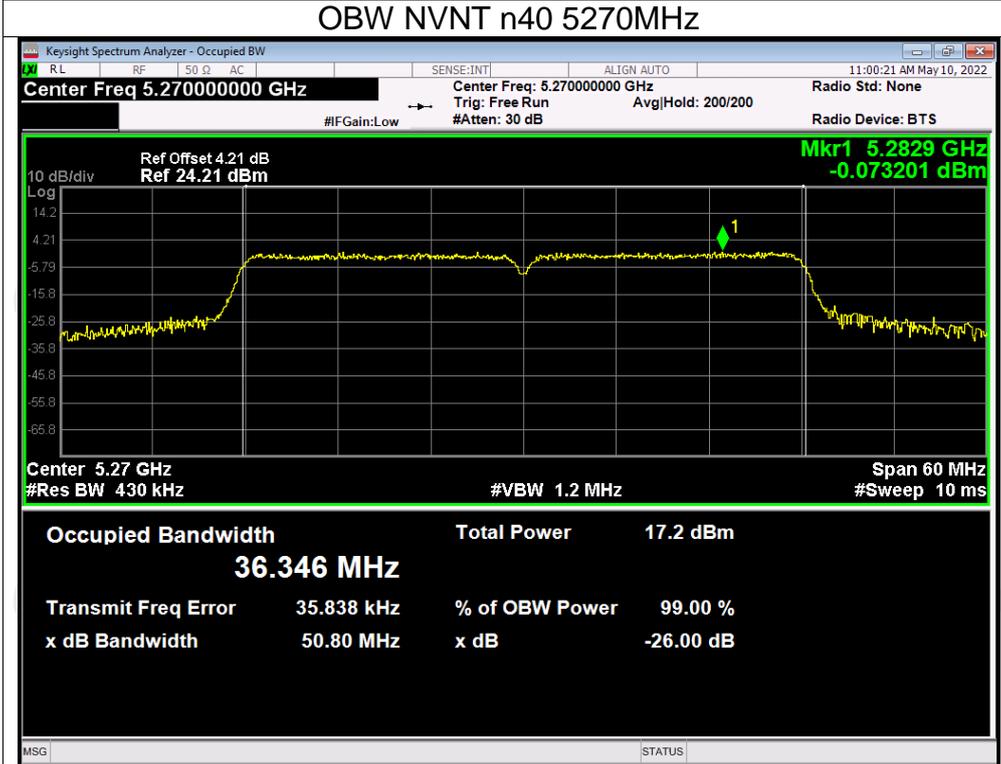
OBW NVNT n20 5300MHz



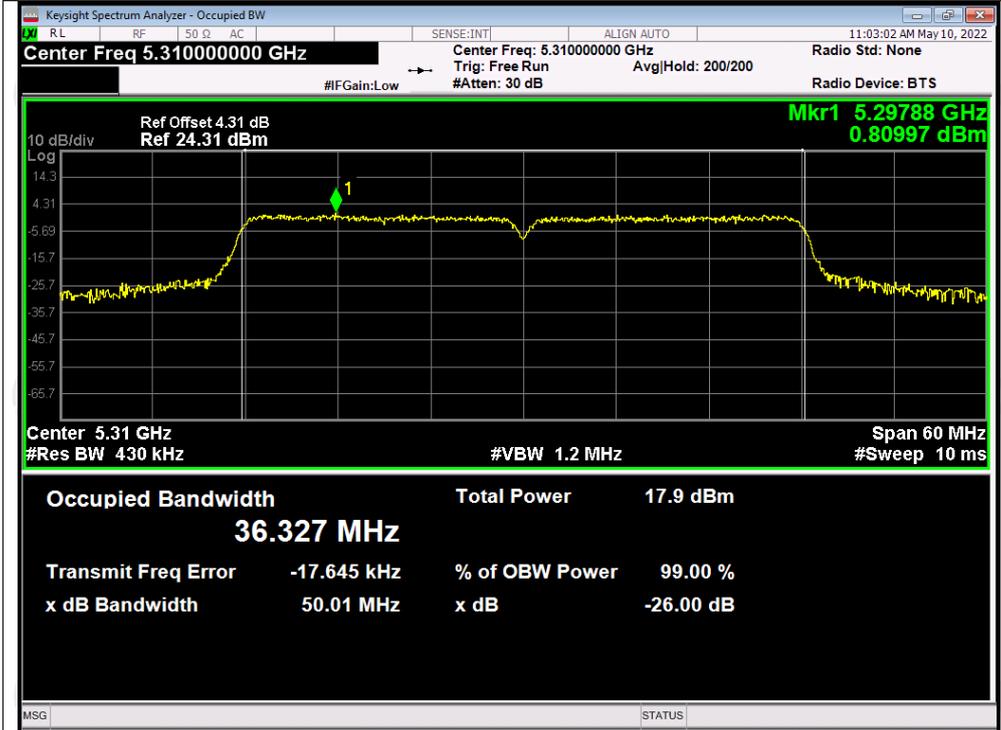
OBW NVNT n20 5320MHz



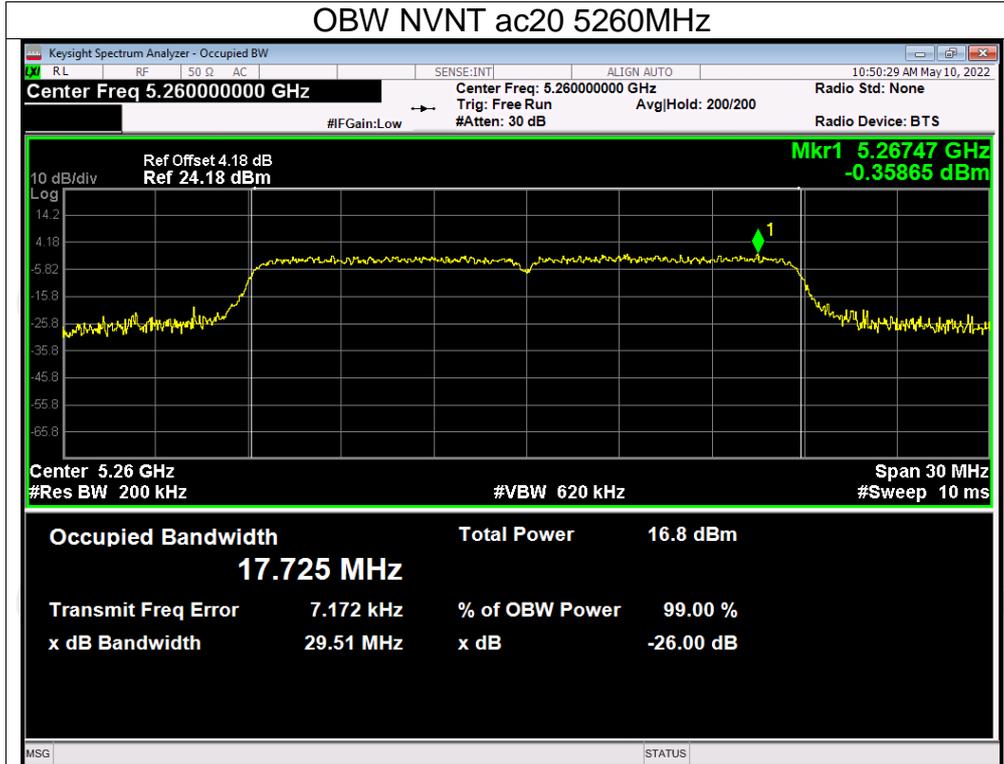
OBW NVNT n40 5270MHz



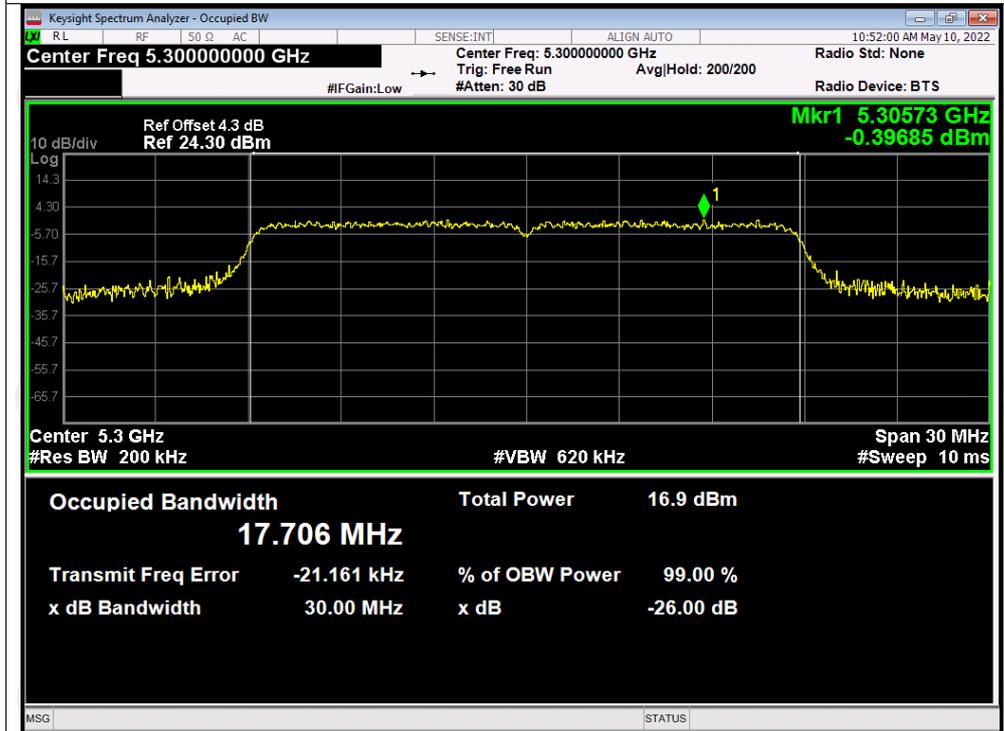
OBW NVNT n40 5310MHz



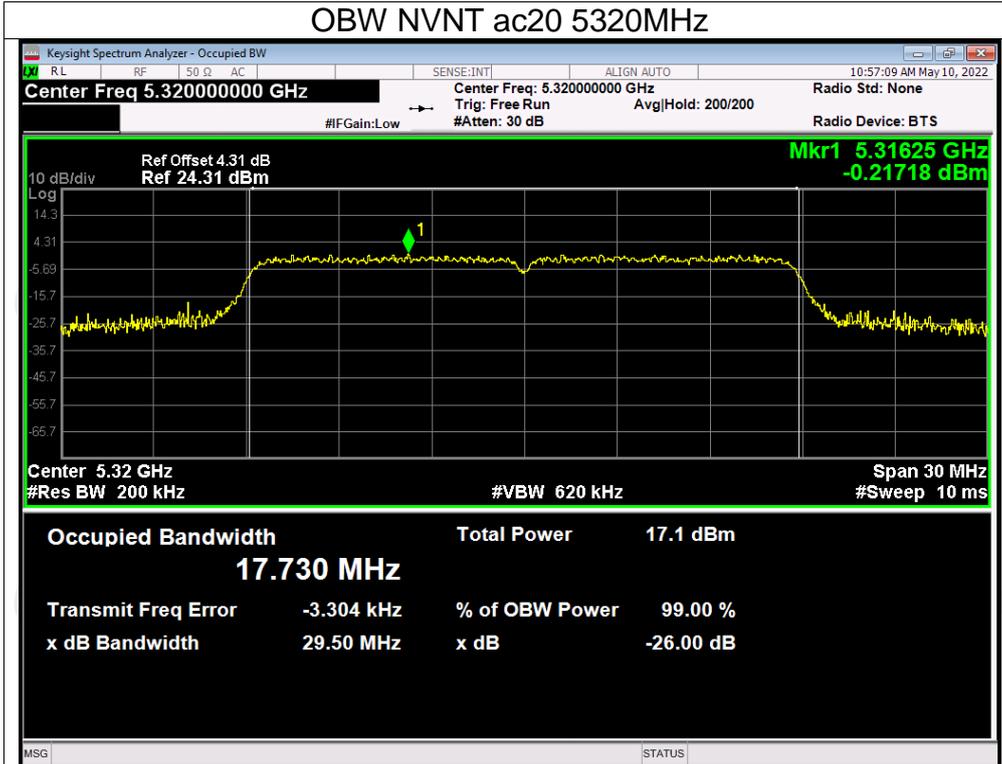
OBW NVNT ac20 5260MHz



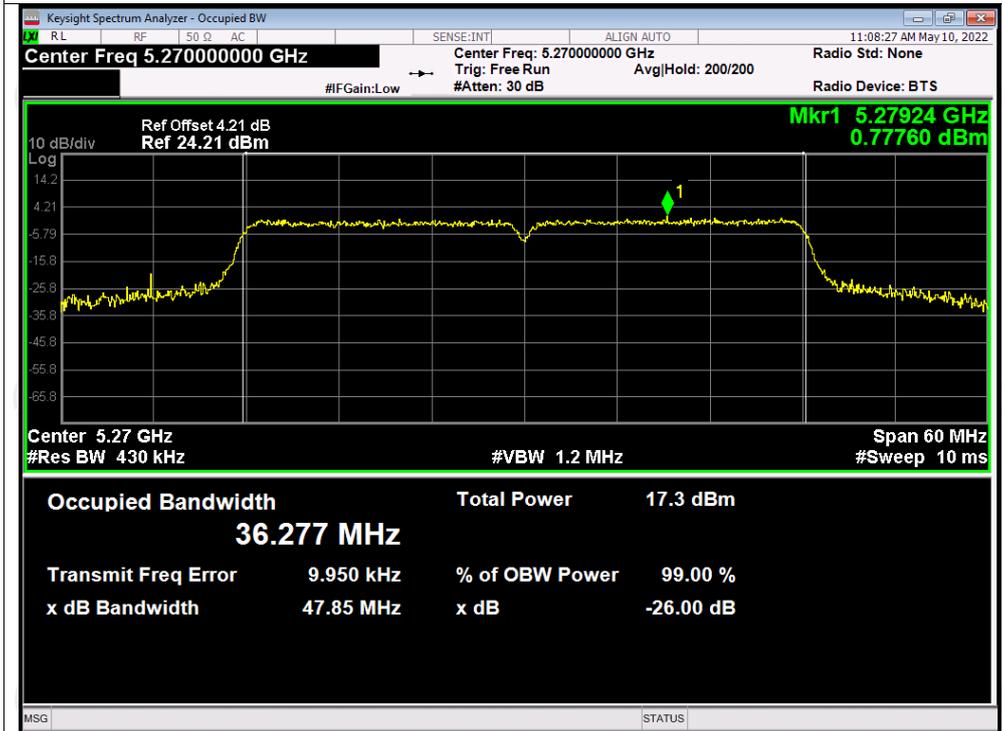
OBW NVNT ac20 5300MHz



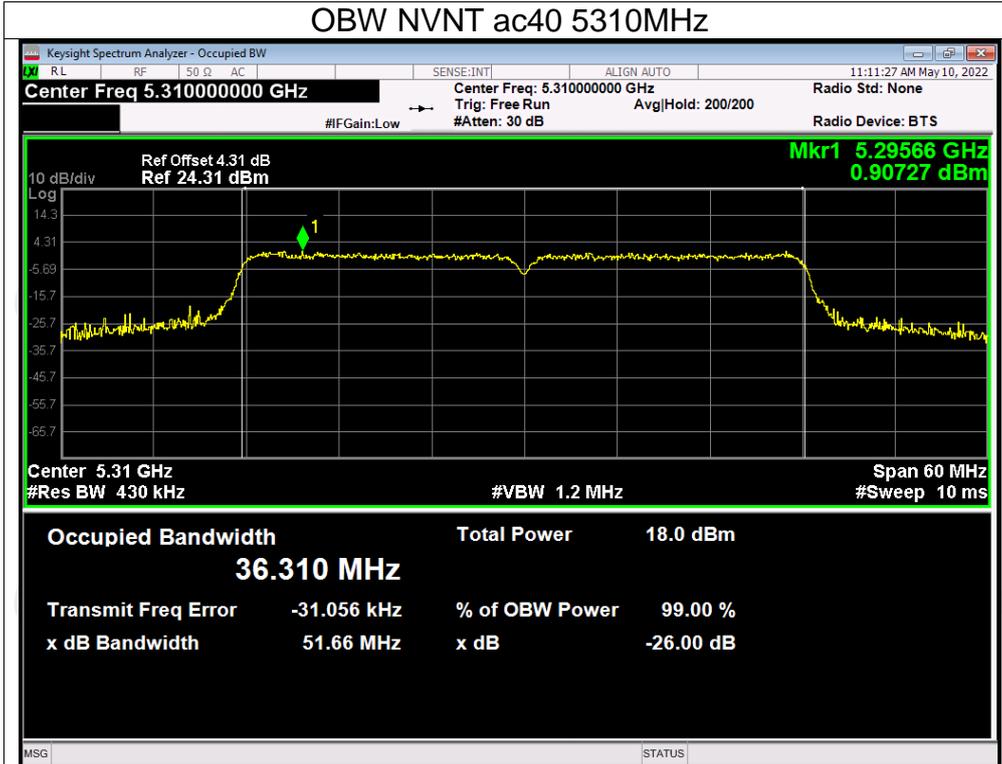
OBW NVNT ac20 5320MHz



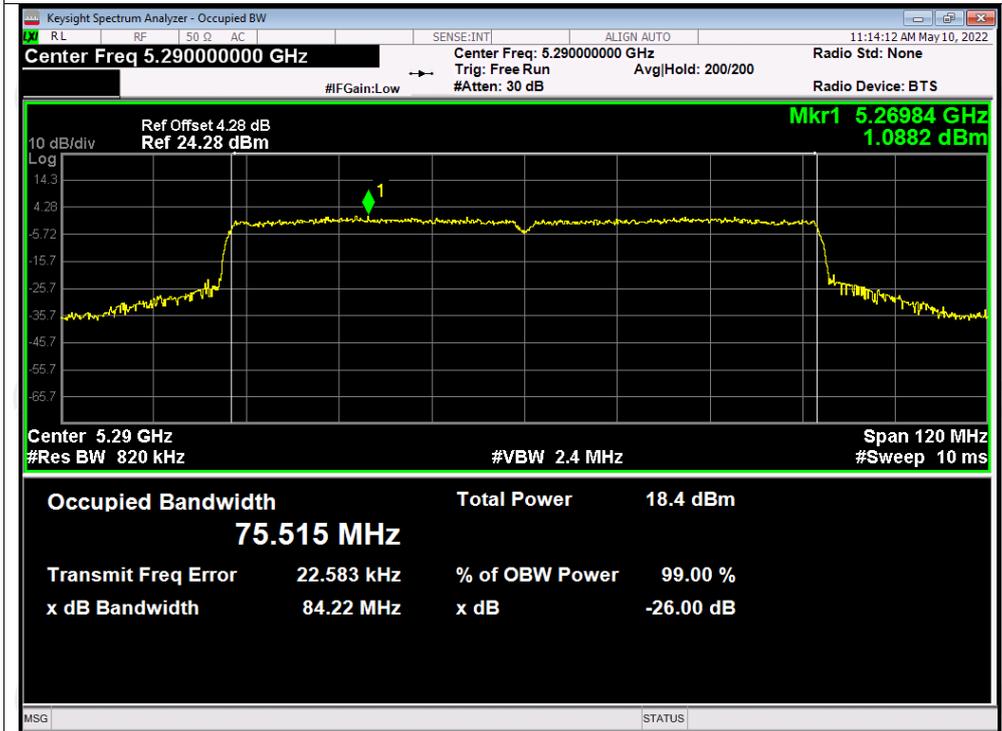
OBW NVNT ac40 5270MHz



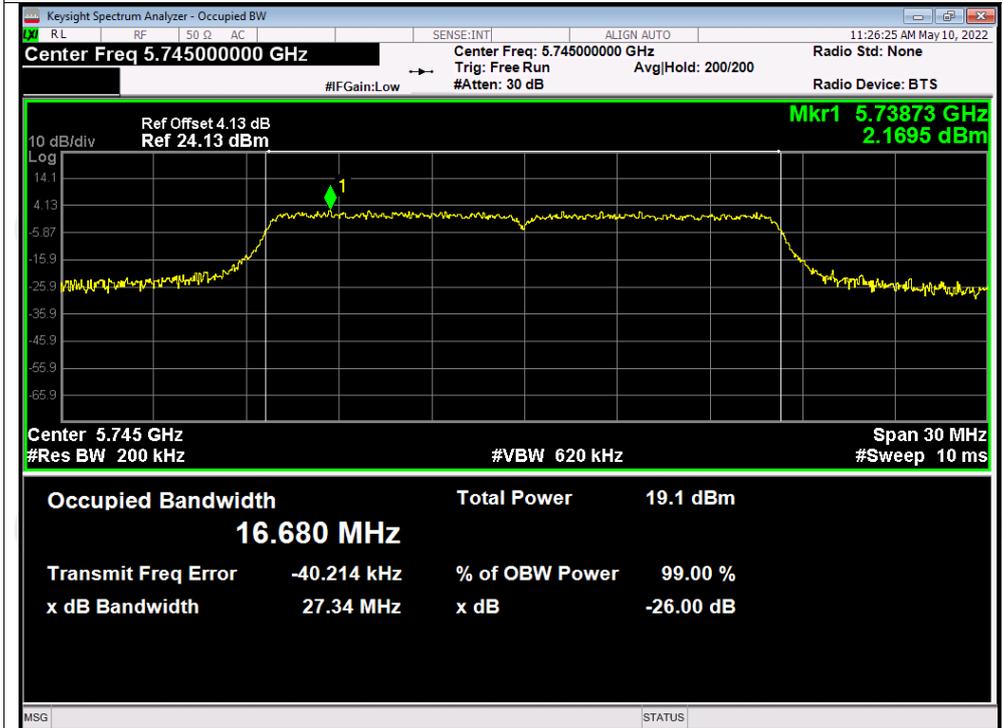
OBW NVNT ac40 5310MHz



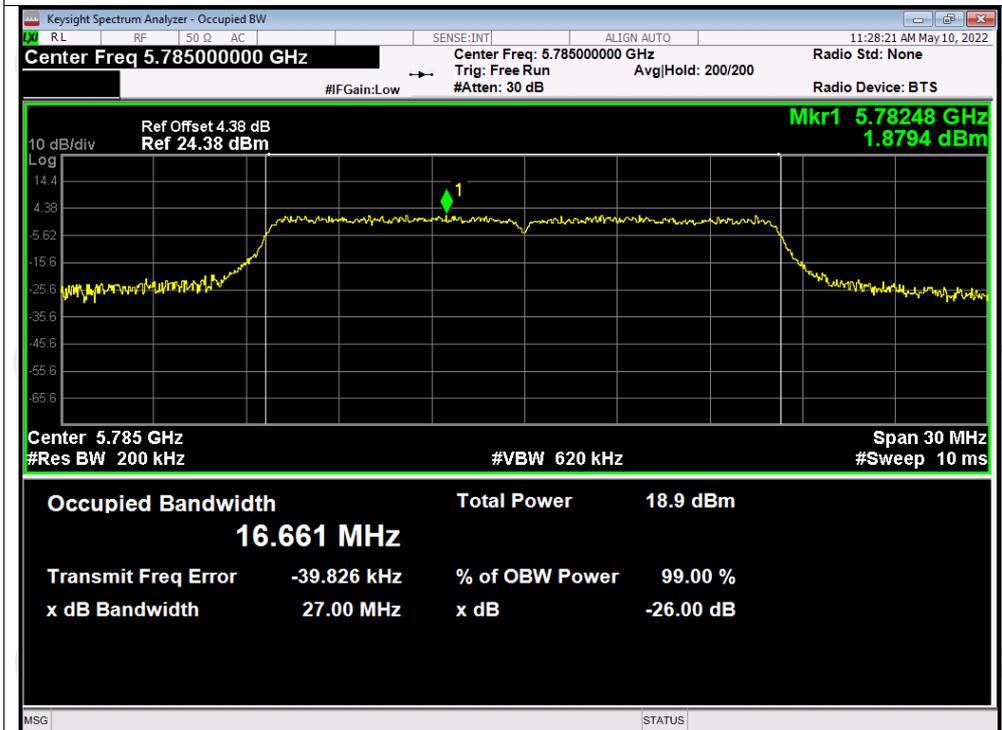
OBW NVNT ac80 5290MHz



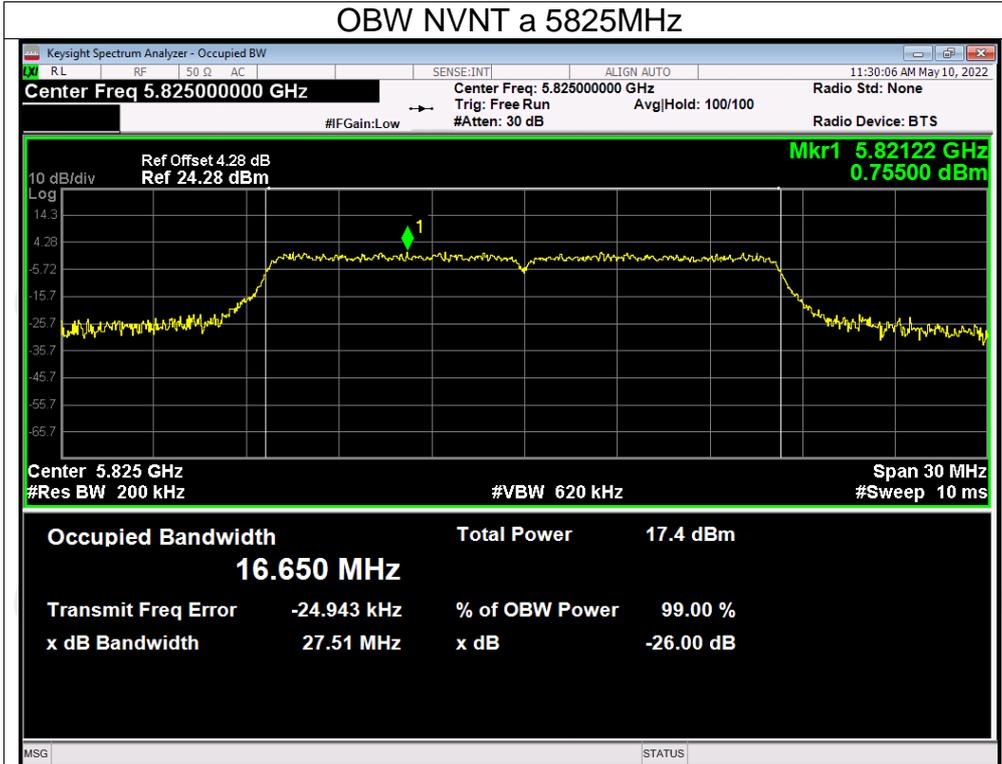
Test Graphs
OBW NVNT a 5745MHz



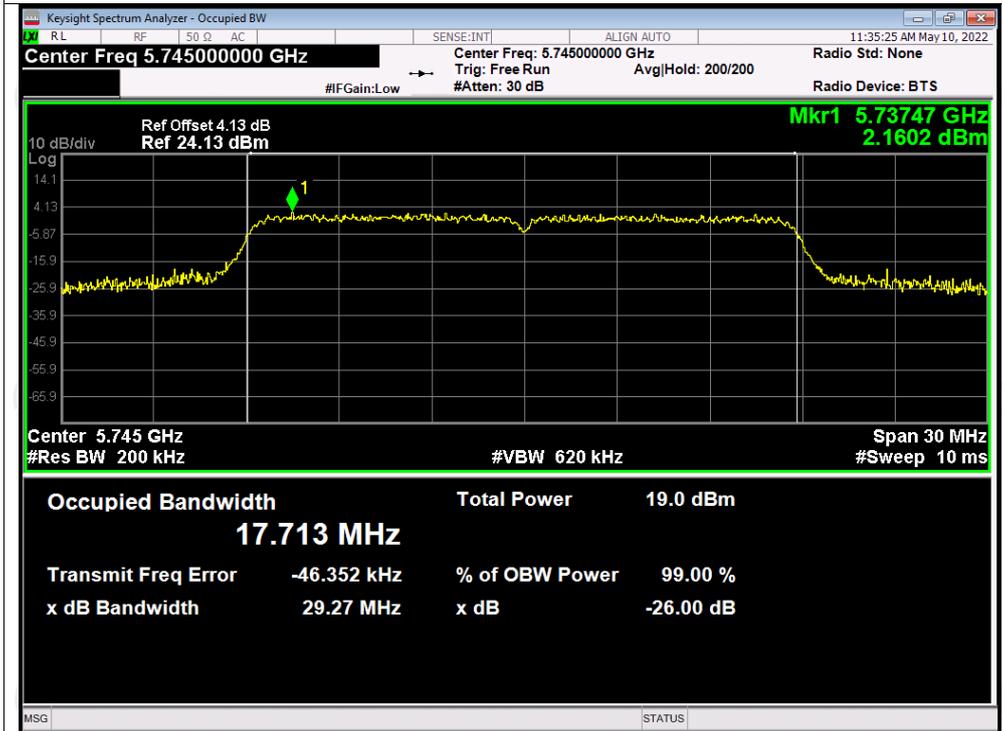
OBW NVNT a 5785MHz



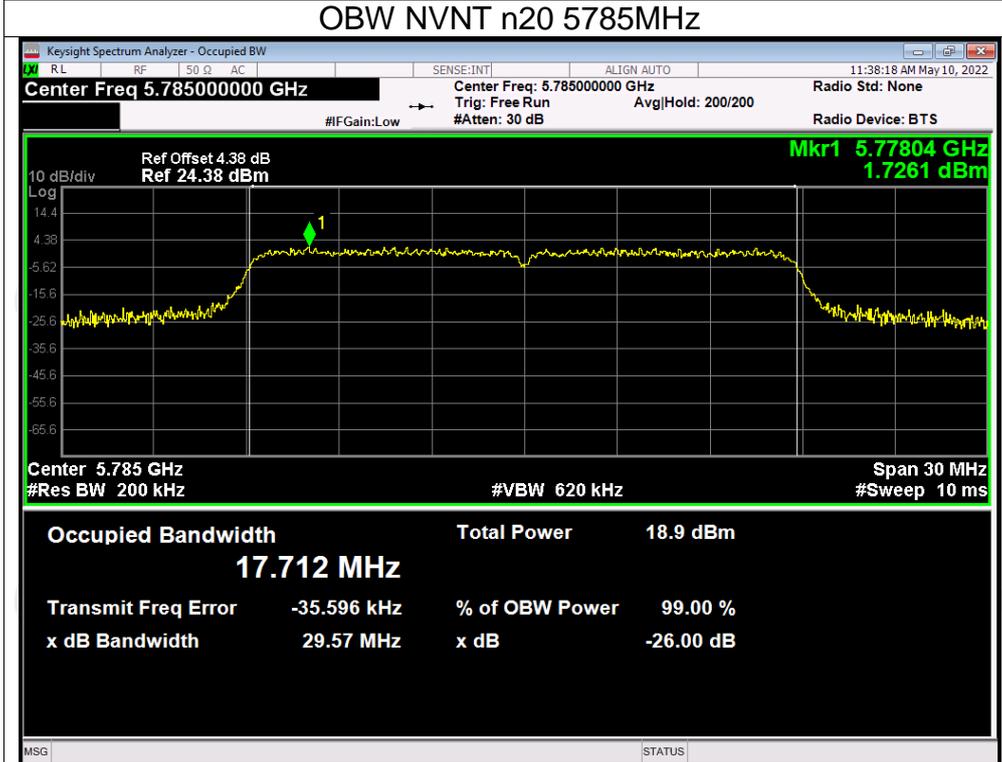
OBW NVNT a 5825MHz



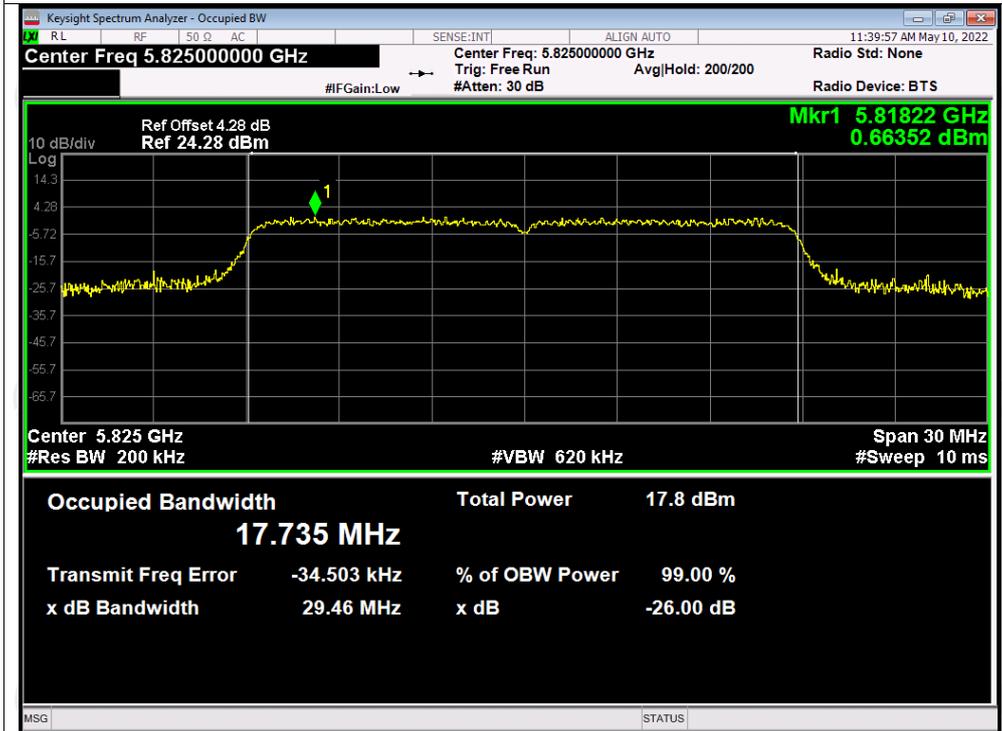
OBW NVNT n20 5745MHz



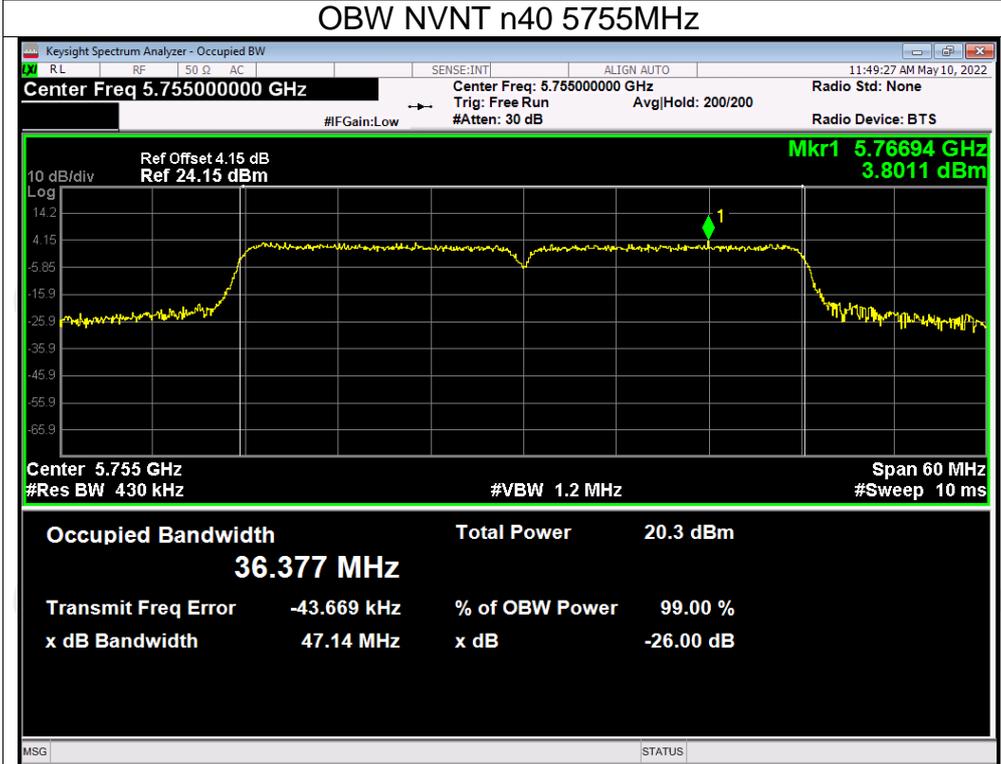
OBW NVNT n20 5785MHz



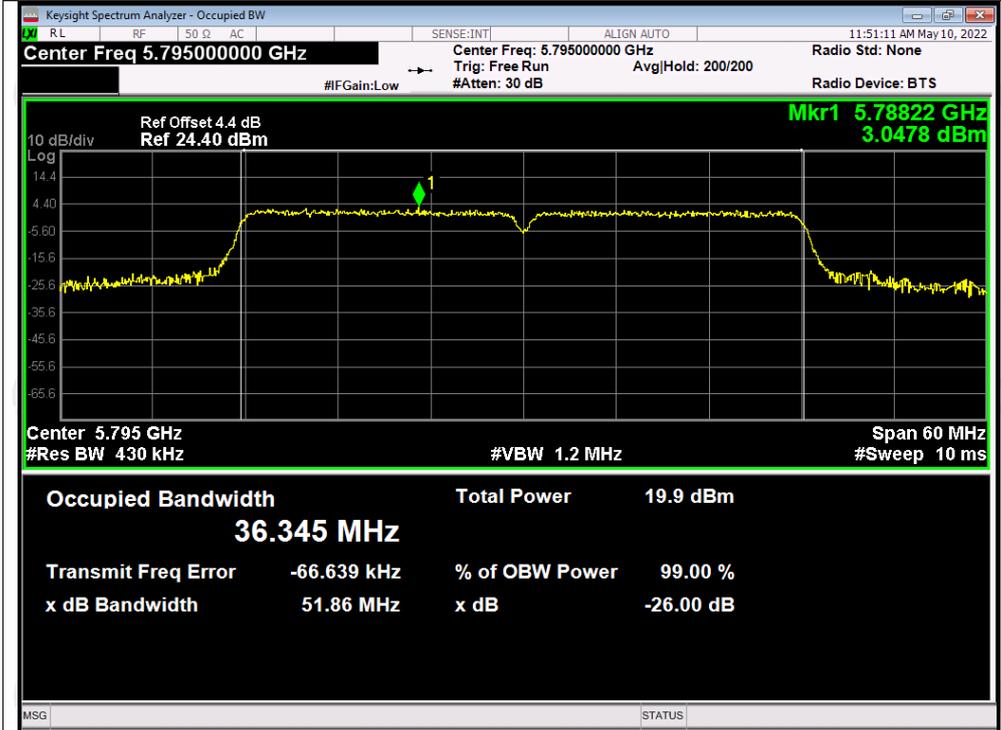
OBW NVNT n20 5825MHz



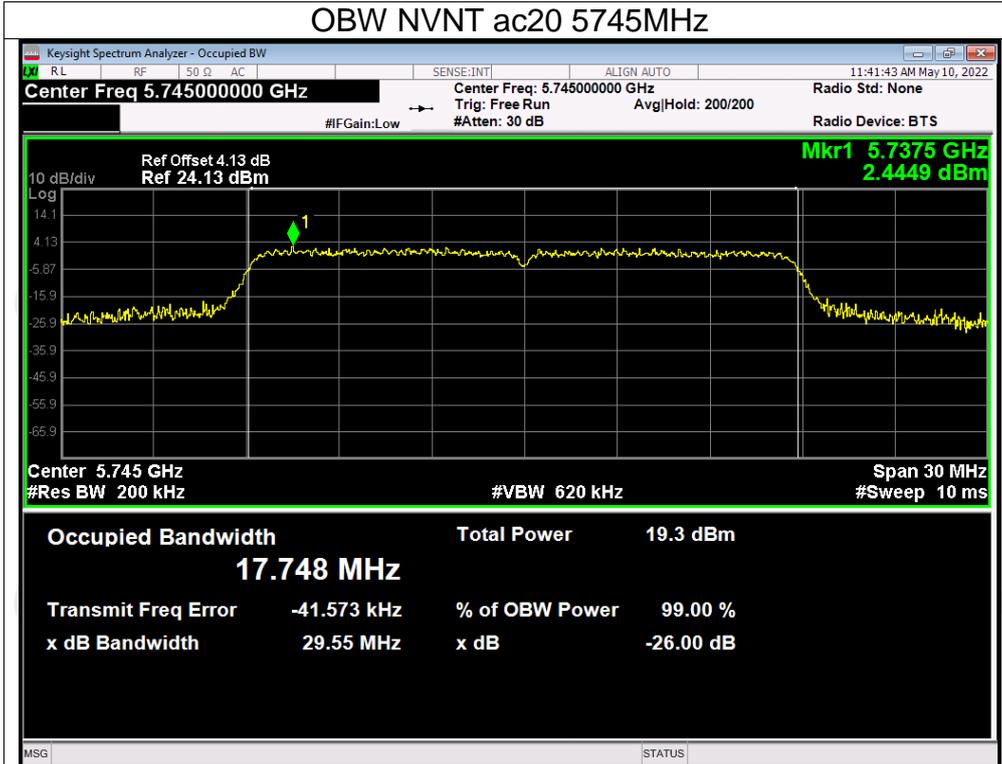
OBW NVNT n40 5755MHz



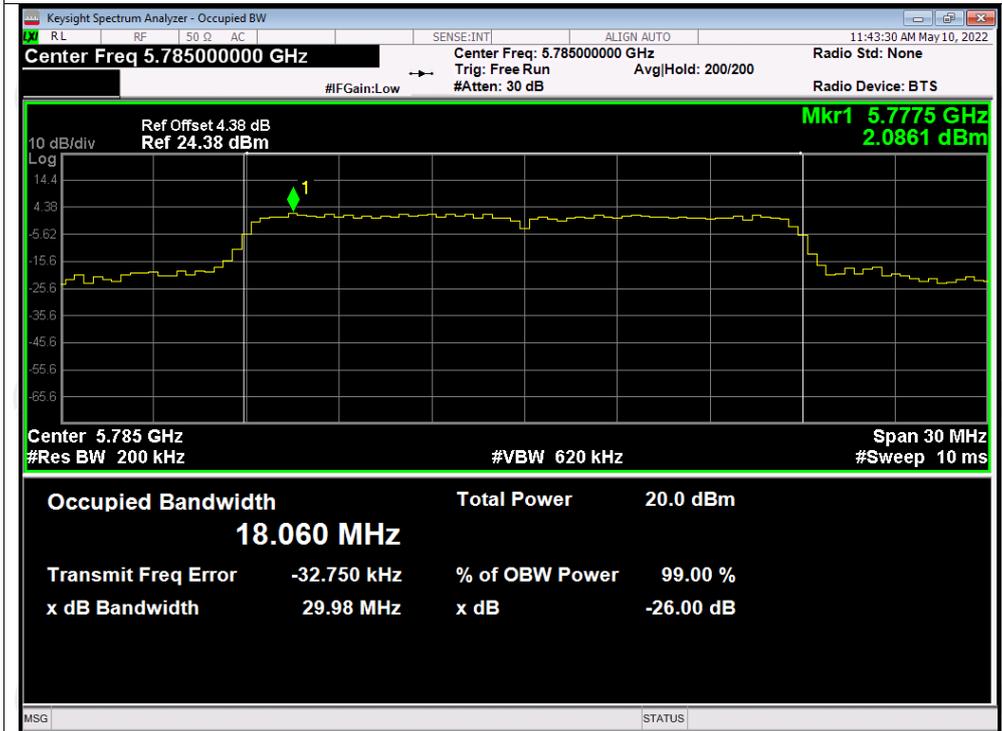
OBW NVNT n40 5795MHz



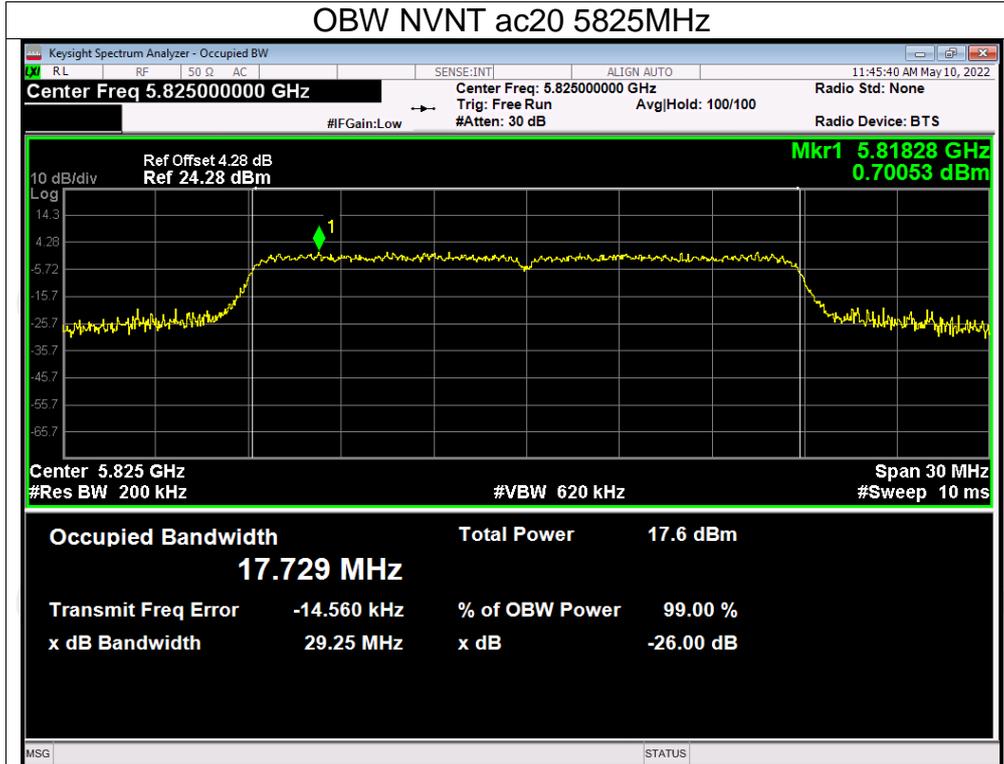
OBW NVNT ac20 5745MHz



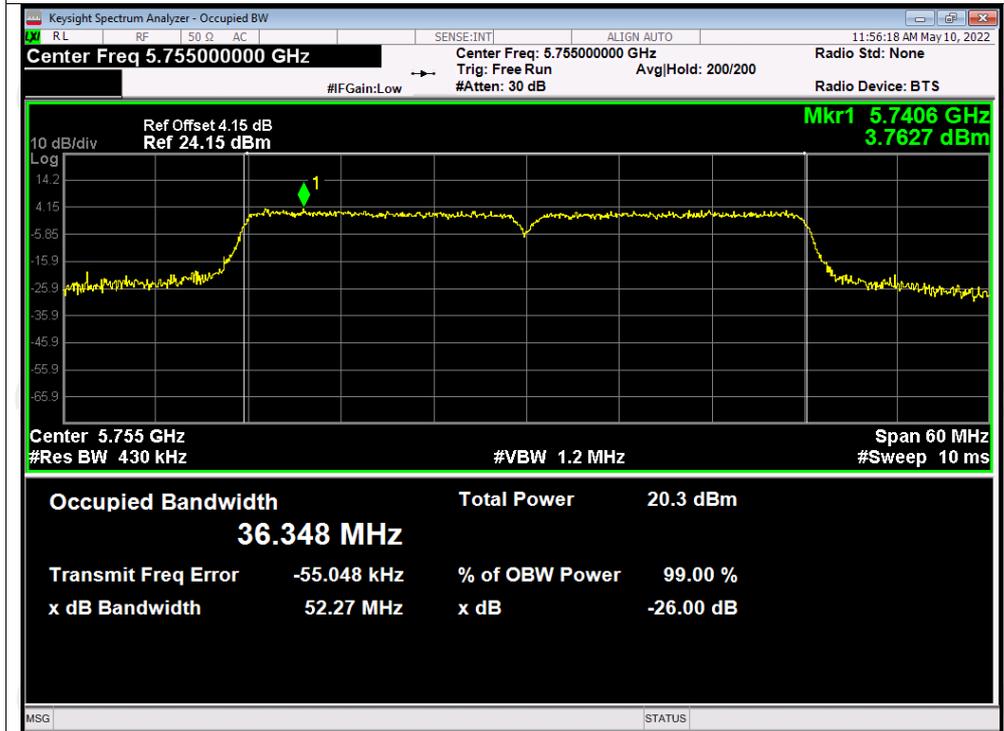
OBW NVNT ac20 5785MHz



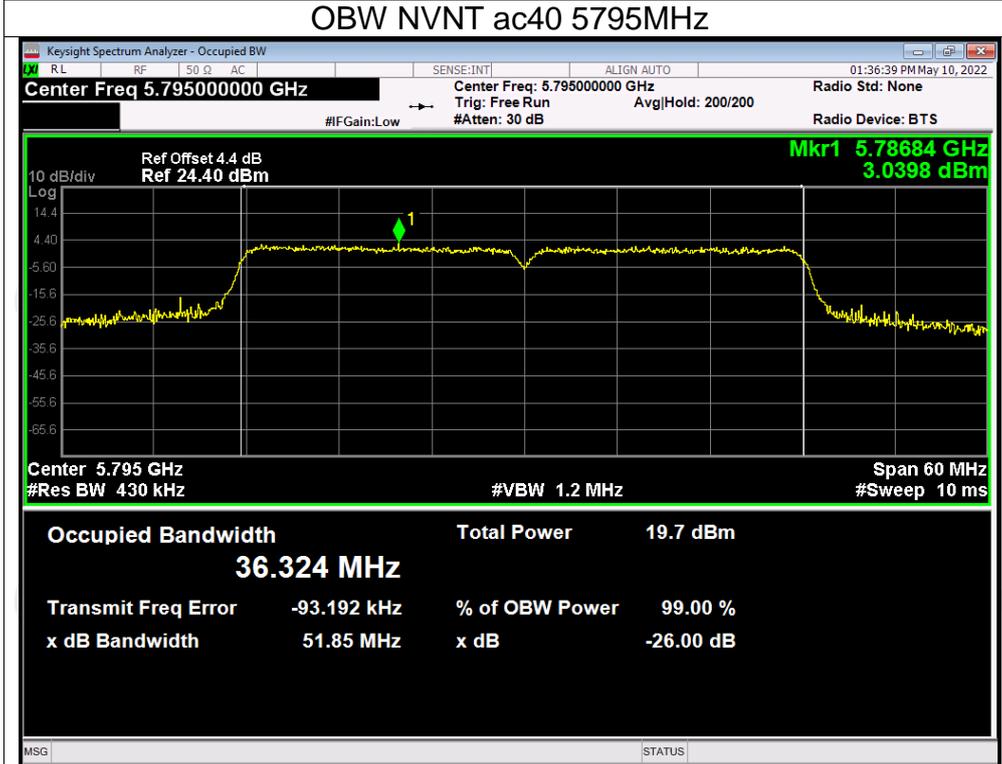
OBW NVNT ac20 5825MHz



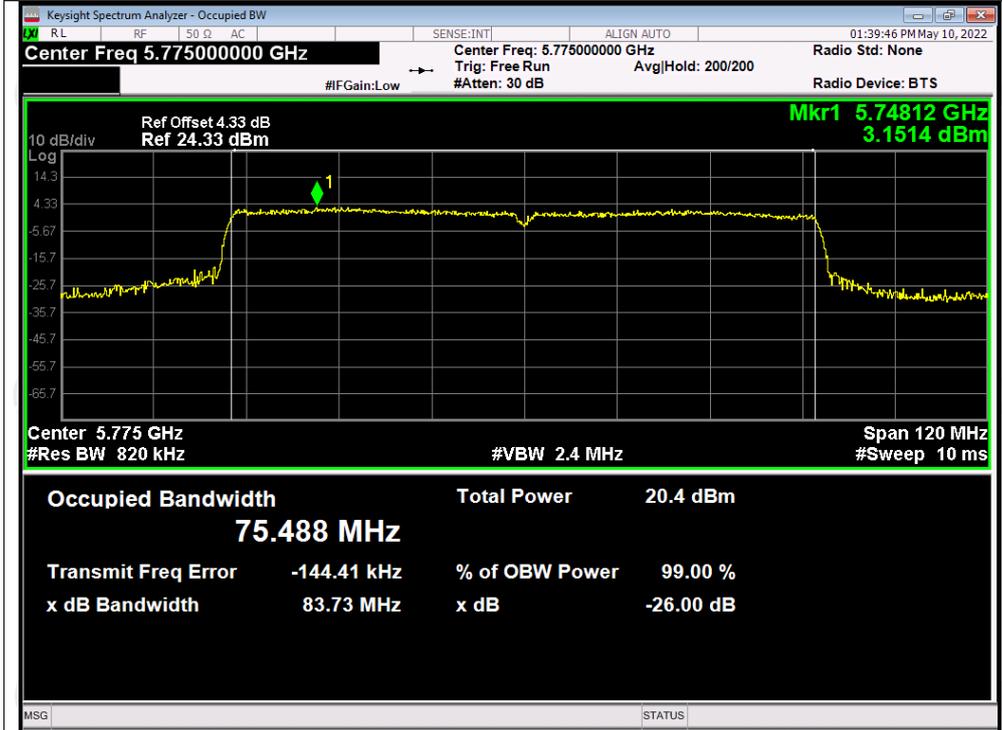
OBW NVNT ac40 5755MHz



OBW NVNT ac40 5795MHz



OBW NVNT ac80 5775MHz

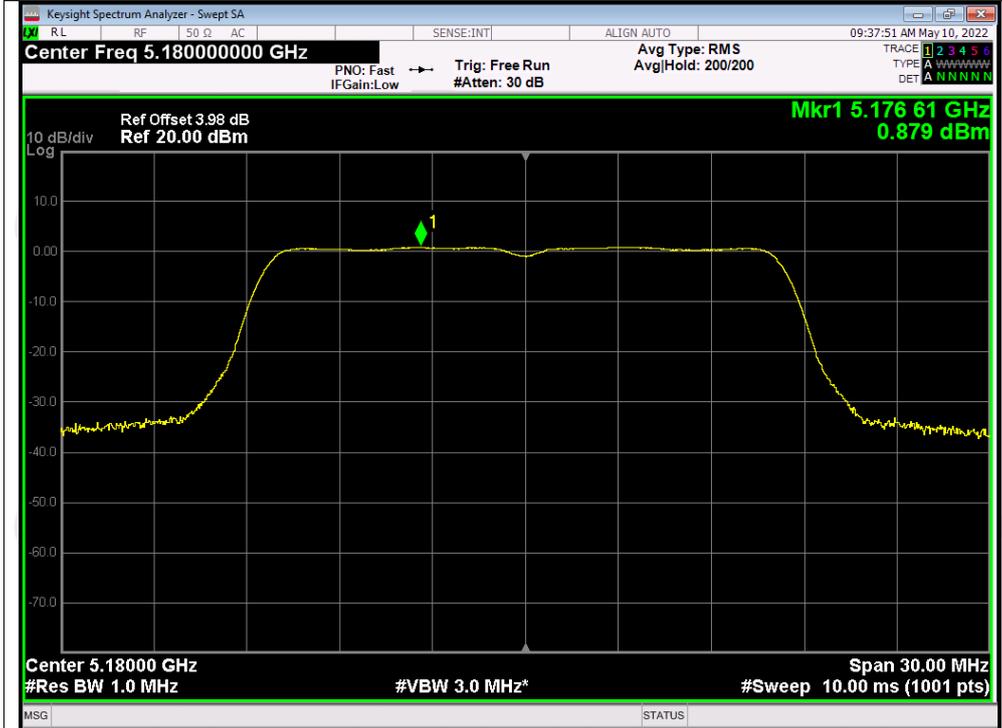


Maximum Power Spectral Density Level

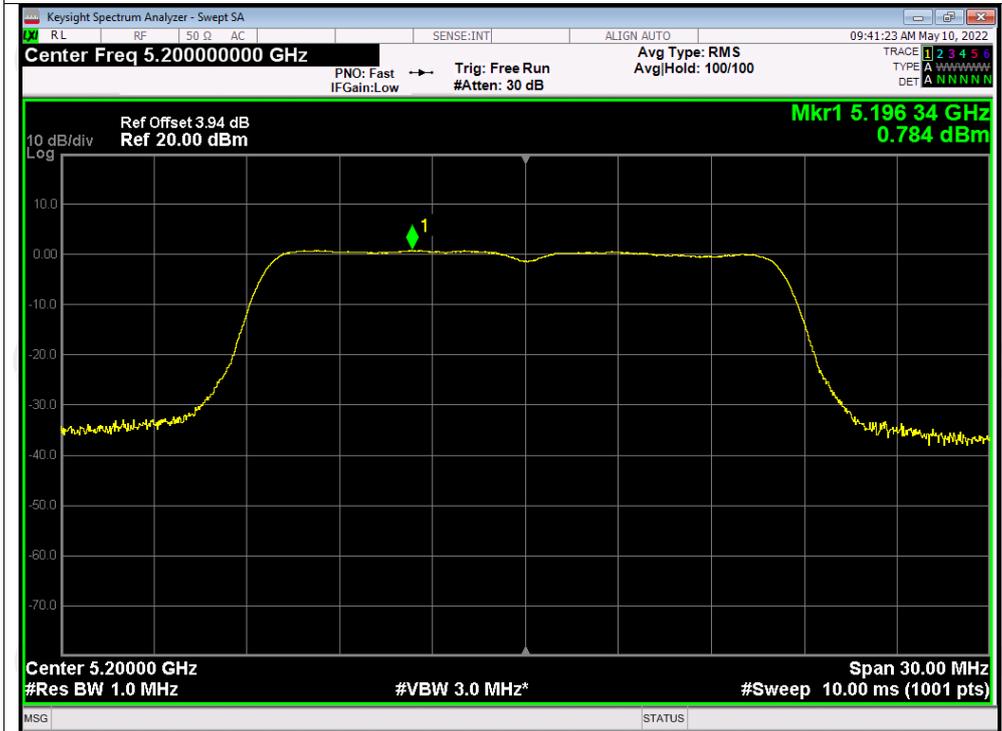
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	0.88	0.42	1.30	11	Pass
NVNT	a	5200	0.78	0.42	1.20	11	Pass
NVNT	a	5240	-0.46	0.42	-0.04	11	Pass
NVNT	n20	5180	0.78	0.43	1.21	11	Pass
NVNT	n20	5200	-0.18	0.44	0.26	11	Pass
NVNT	n20	5240	-1.41	0.43	-0.98	11	Pass
NVNT	n40	5190	-3.71	0.92	-2.79	11	Pass
NVNT	n40	5230	-4.53	0.92	-3.61	11	Pass
NVNT	ac20	5180	0.33	0.44	0.77	11	Pass
NVNT	ac20	5200	-0.06	0.44	0.38	11	Pass
NVNT	ac20	5240	-1.37	0.44	-0.93	11	Pass
NVNT	ac40	5190	-3.57	0.92	-2.65	11	Pass
NVNT	ac40	5230	-4.41	0.92	-3.49	11	Pass
NVNT	ac80	5210	-7.02	1.76	-5.26	11	Pass
NVNT	a	5260	-2.05	0.42	-1.63	11	Pass
NVNT	a	5300	-1.69	0.42	-1.27	11	Pass
NVNT	a	5320	-1.16	0.42	-0.74	11	Pass
NVNT	n20	5260	-2.67	0.46	-2.21	11	Pass
NVNT	n20	5300	-1.75	0.49	-1.26	11	Pass
NVNT	n20	5320	-1.94	0.49	-1.45	11	Pass
NVNT	n40	5270	-5.81	0.92	-4.89	11	Pass
NVNT	n40	5310	-5.35	0.92	-4.43	11	Pass
NVNT	ac20	5260	-1.65	0.46	-1.19	11	Pass
NVNT	ac20	5300	-1.78	0.49	-1.29	11	Pass
NVNT	ac20	5320	-1.65	0.47	-1.18	11	Pass
NVNT	ac40	5270	-5.63	0.92	-4.71	11	Pass
NVNT	ac40	5310	-5.16	0.92	-4.24	11	Pass
NVNT	ac80	5290	-9.14	1.76	-7.38	11	Pass
NVNT	a	5745	-2.03	0.42	-1.61	30	Pass
NVNT	a	5785	-2.24	0.42	-1.82	30	Pass
NVNT	a	5825	-3.43	0.41	-3.02	30	Pass
NVNT	n20	5745	-2.40	0.49	-1.91	30	Pass
NVNT	n20	5785	-2.54	0.46	-2.08	30	Pass
NVNT	n20	5825	-3.64	0.47	-3.17	30	Pass
NVNT	n40	5755	-5.54	0.94	-4.60	30	Pass
NVNT	n40	5795	-5.69	0.92	-4.77	30	Pass
NVNT	ac20	5745	-1.84	0.46	-1.38	30	Pass
NVNT	ac20	5785	-2.42	0.49	-1.93	30	Pass
NVNT	ac20	5825	-3.62	0.49	-3.13	30	Pass
NVNT	ac40	5755	-5.48	0.92	-4.56	30	Pass
NVNT	ac40	5795	-5.84	0.92	-4.92	30	Pass
NVNT	ac80	5775	-9.71	1.76	-7.95	30	Pass

Test Graphs

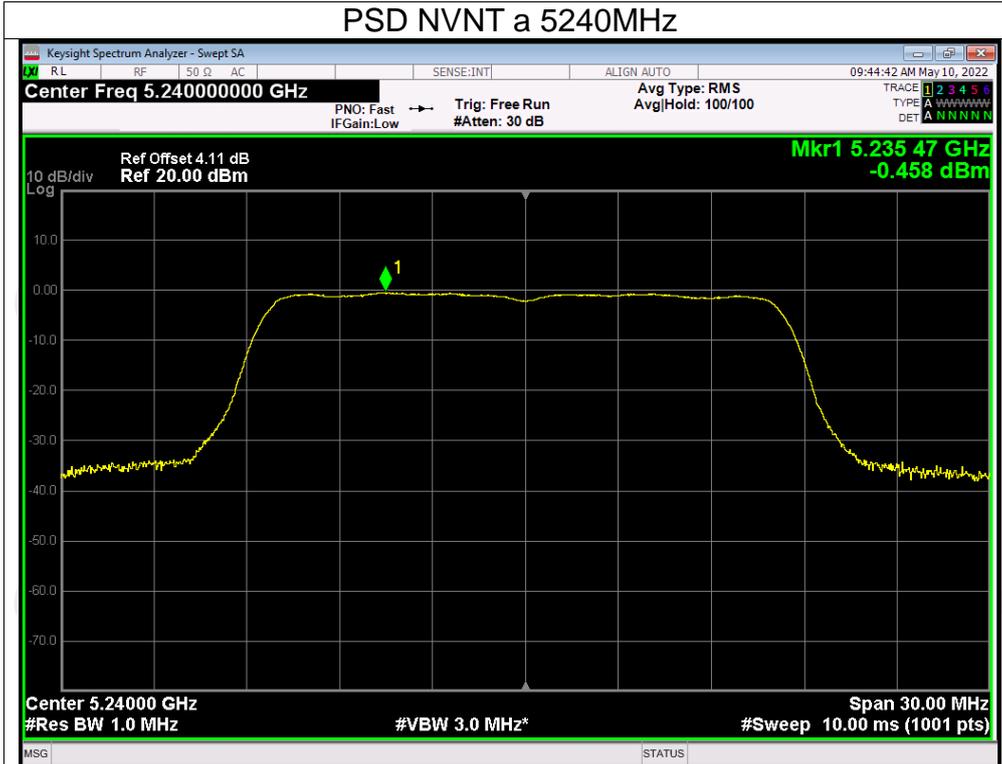
PSD NVNT a 5180MHz



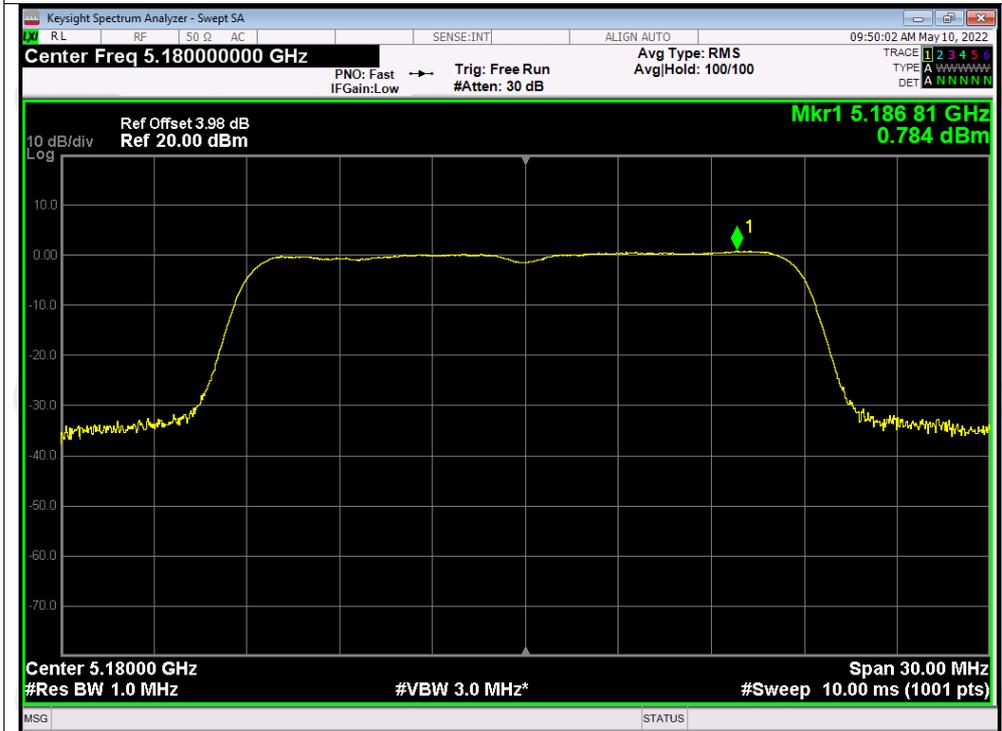
PSD NVNT a 5200MHz

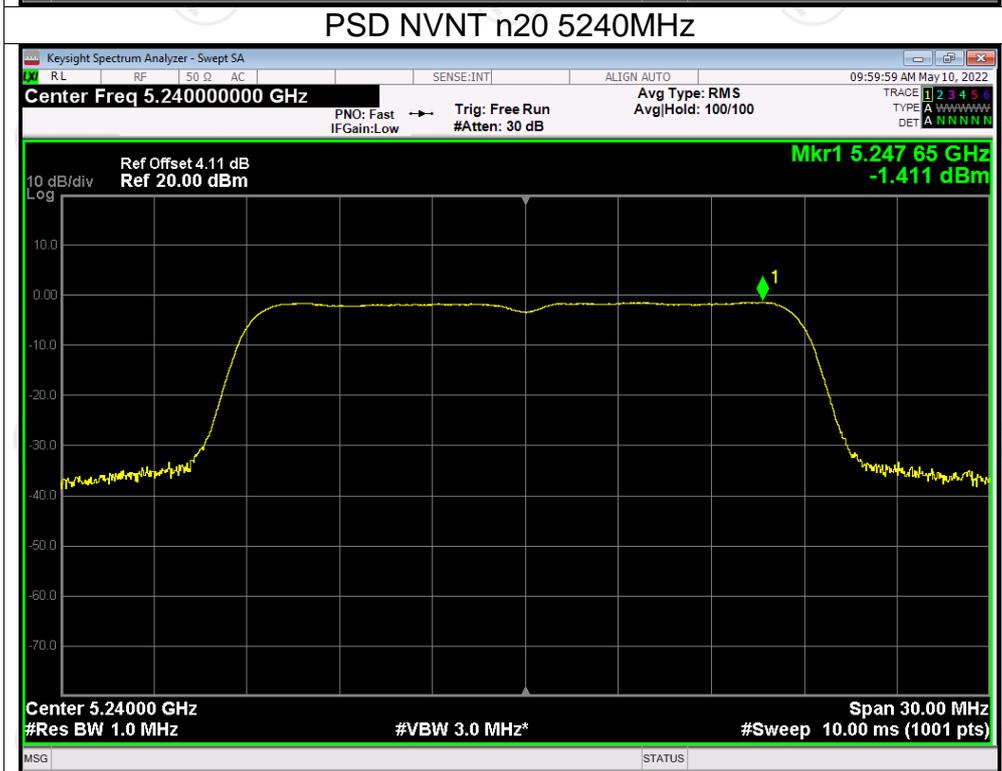
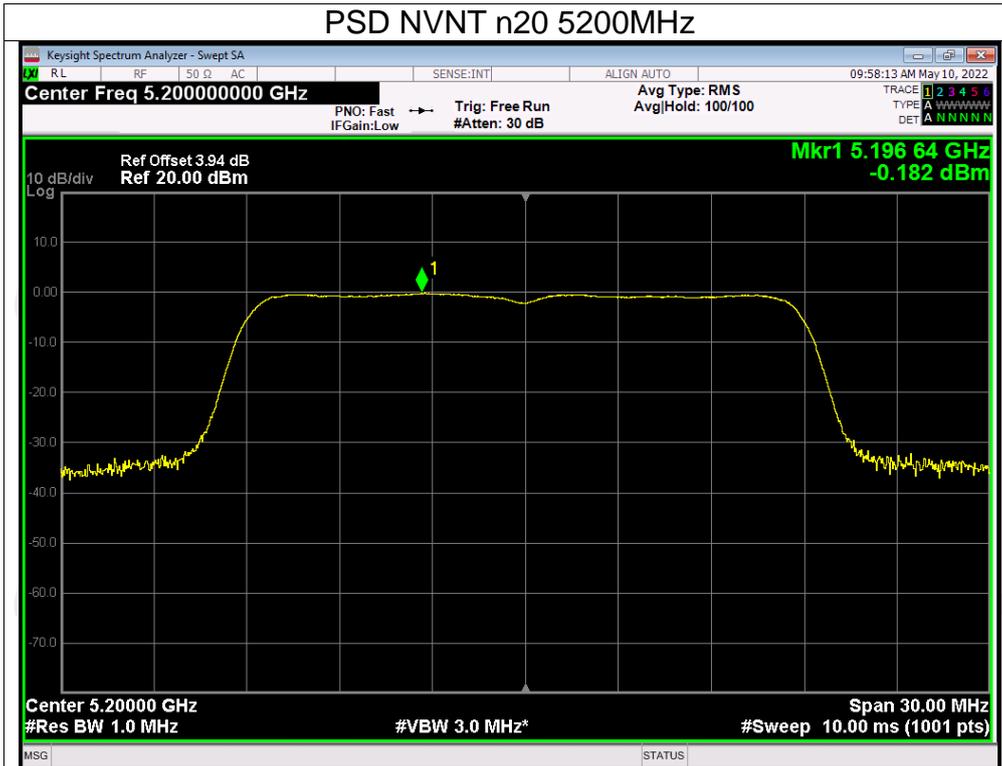


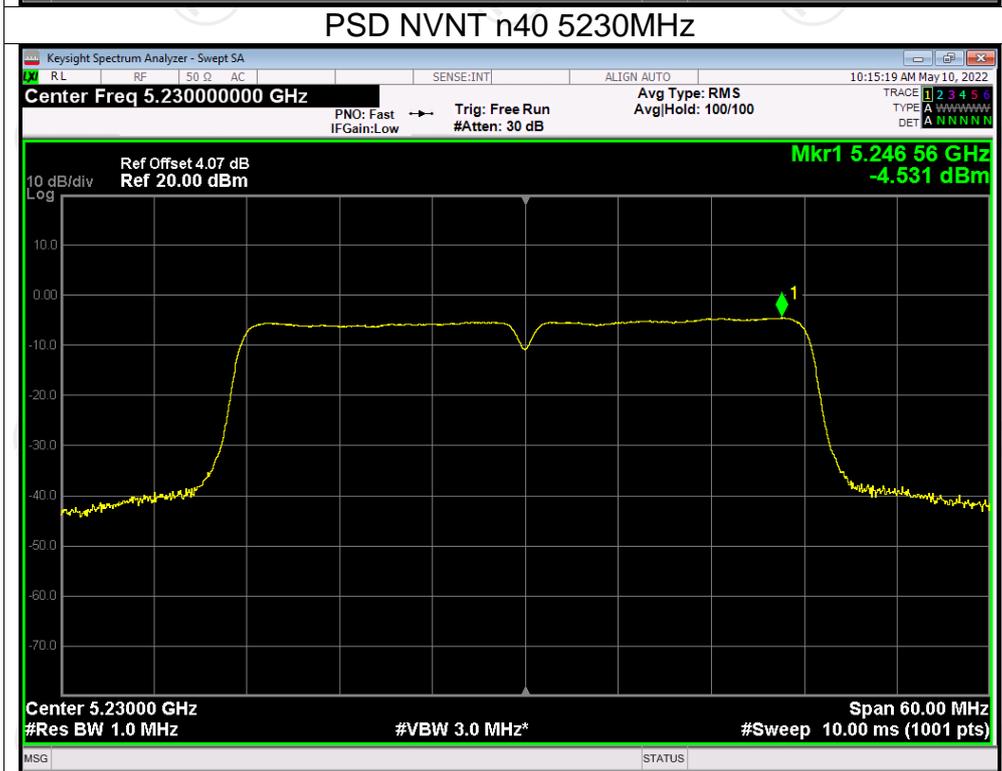
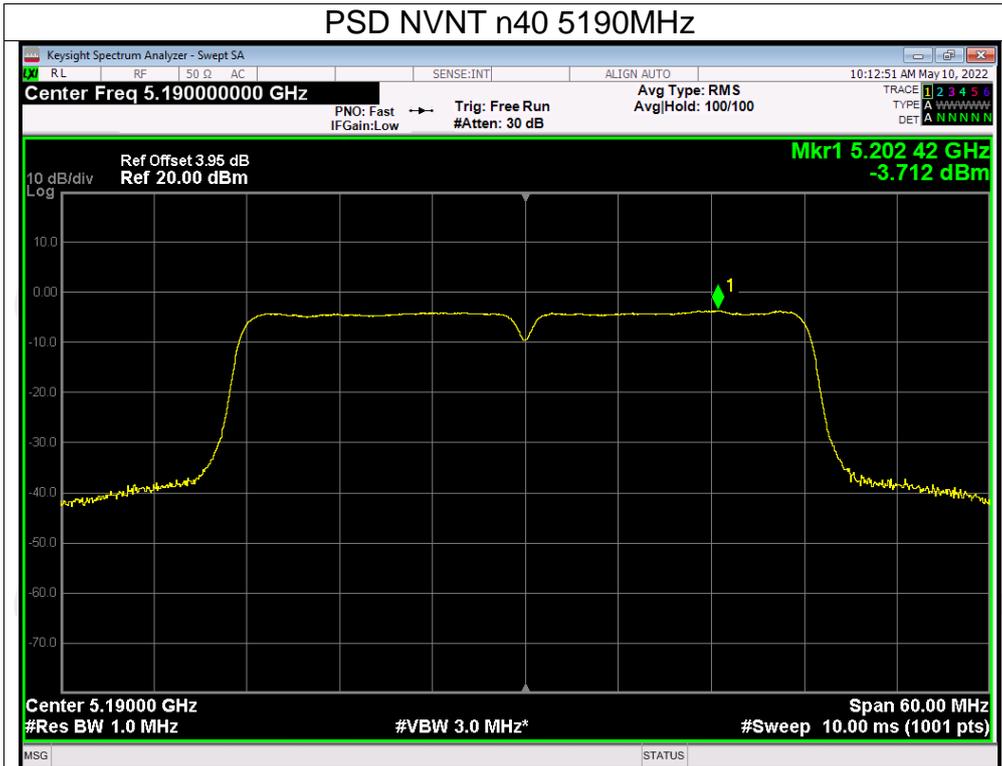
PSD NVNT a 5240MHz

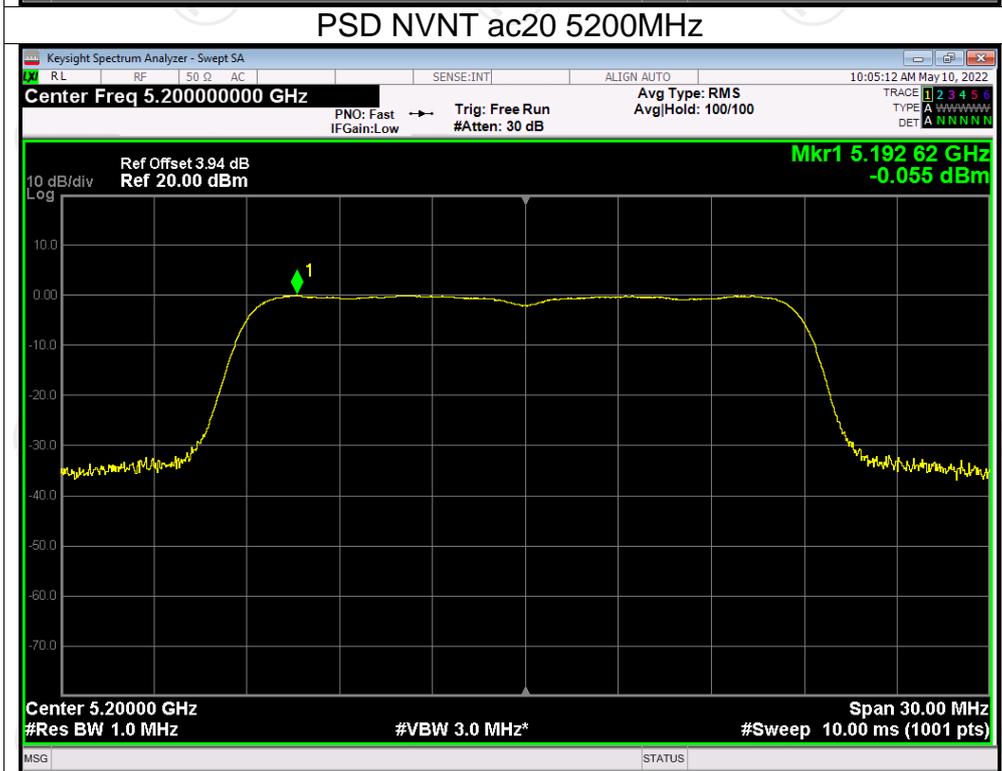
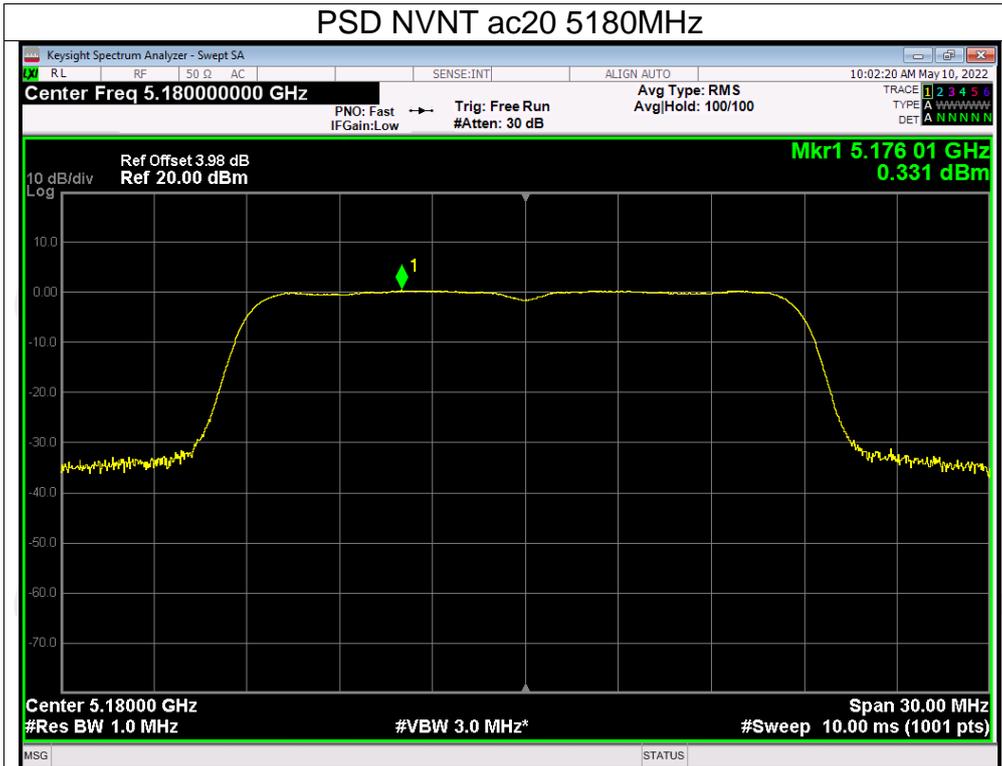


PSD NVNT n20 5180MHz

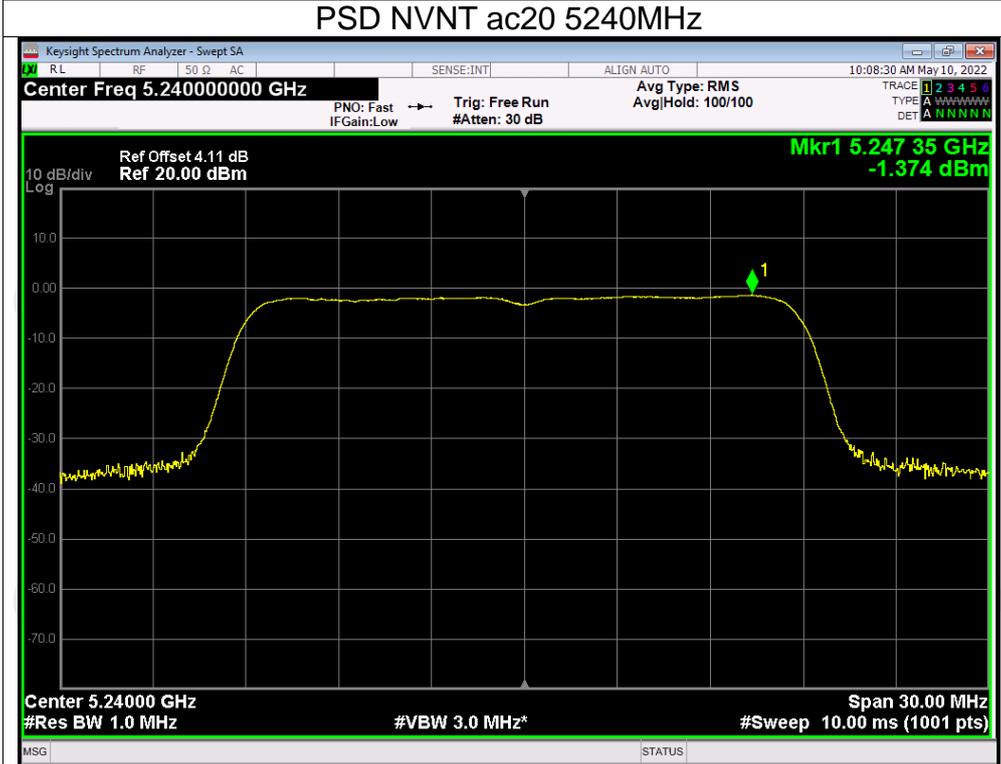




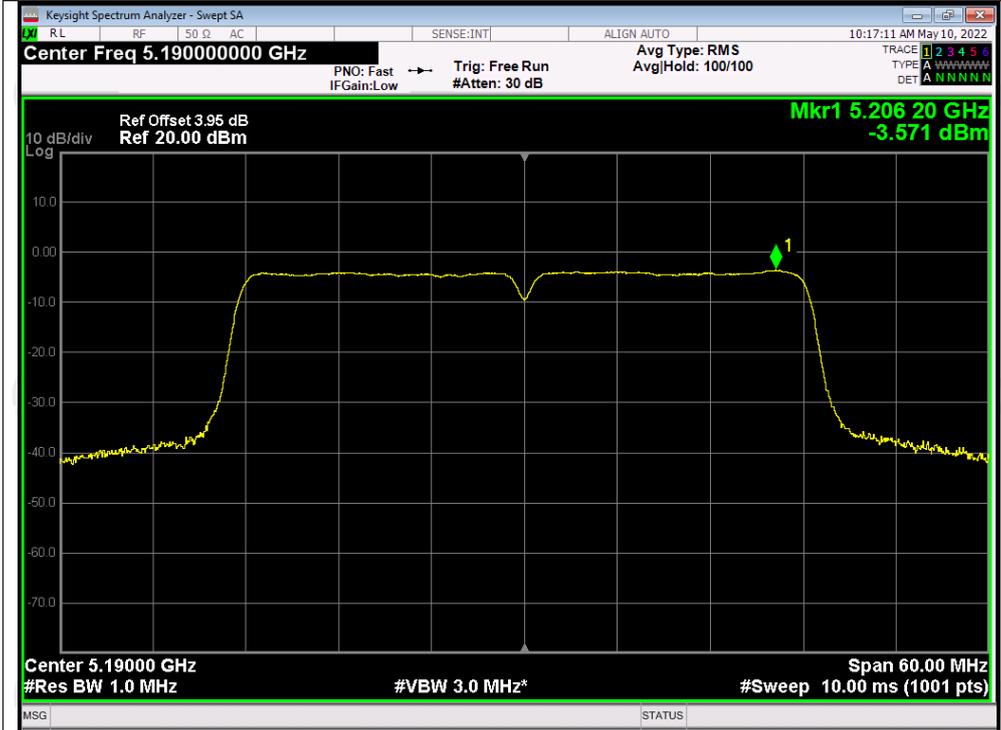




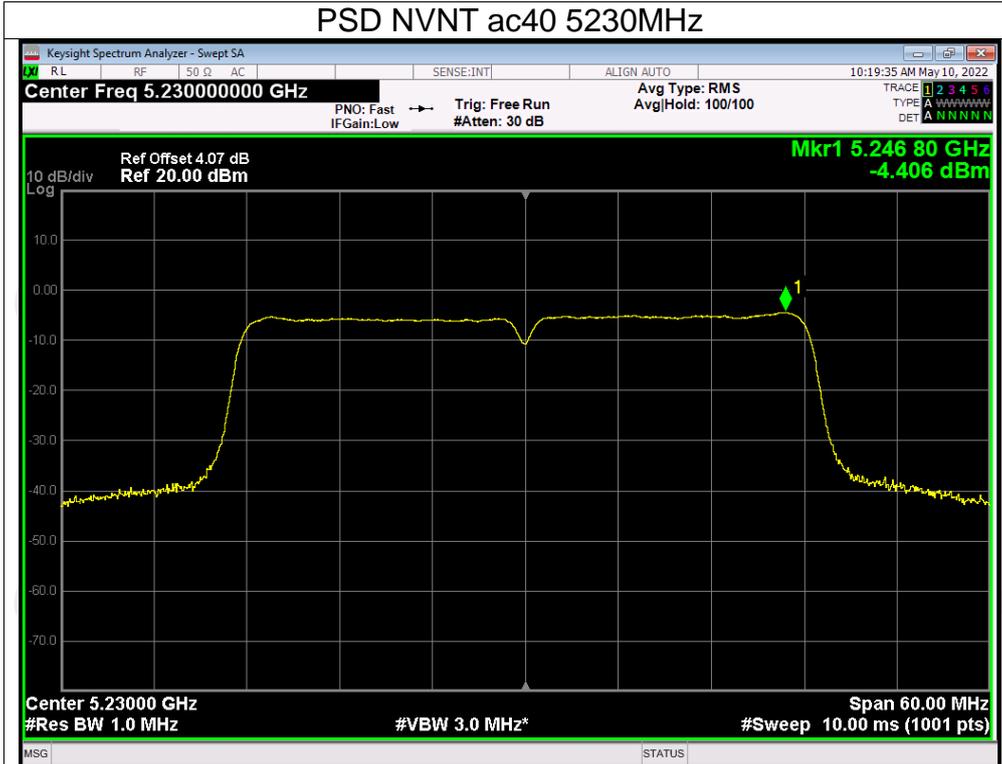
PSD NVNT ac20 5240MHz



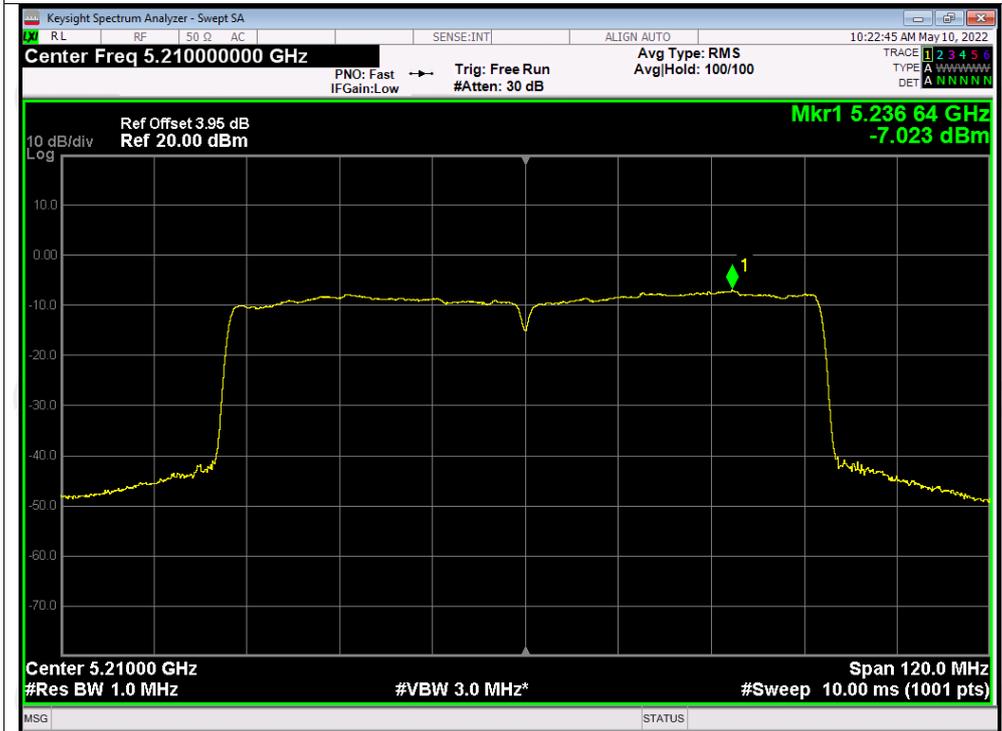
PSD NVNT ac40 5190MHz



PSD NVNT ac40 5230MHz

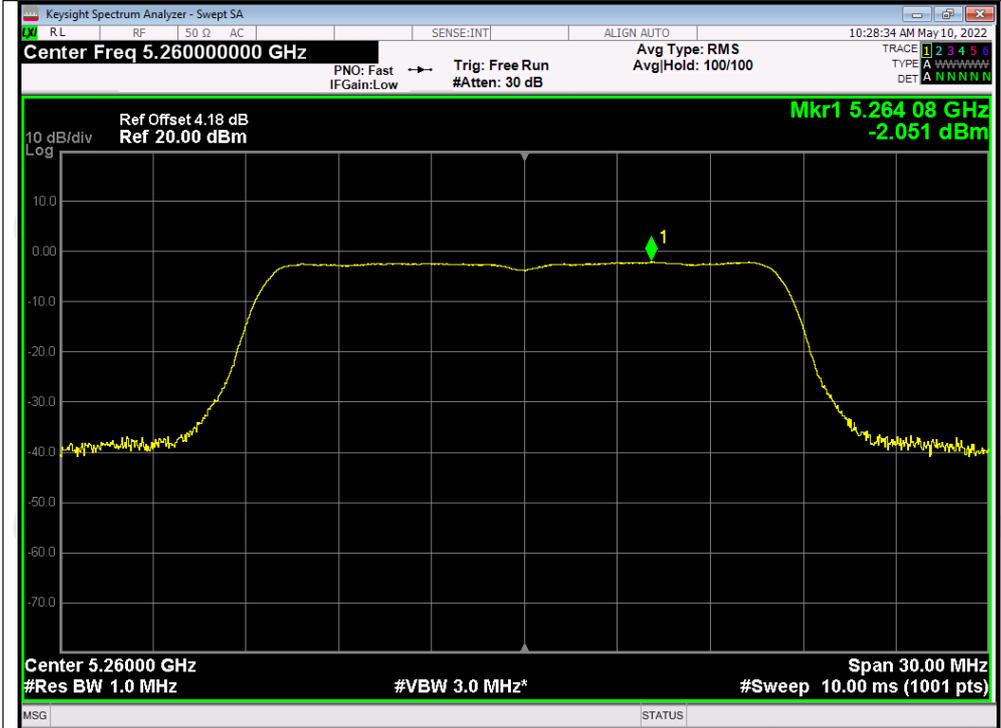


PSD NVNT ac80 5210MHz



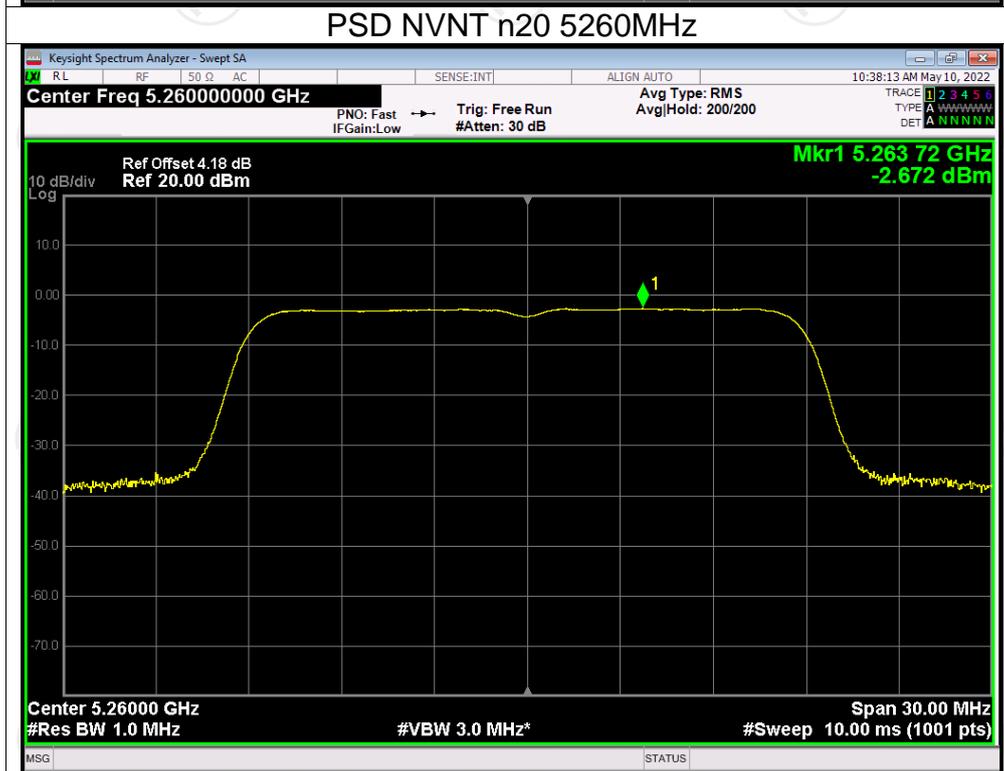
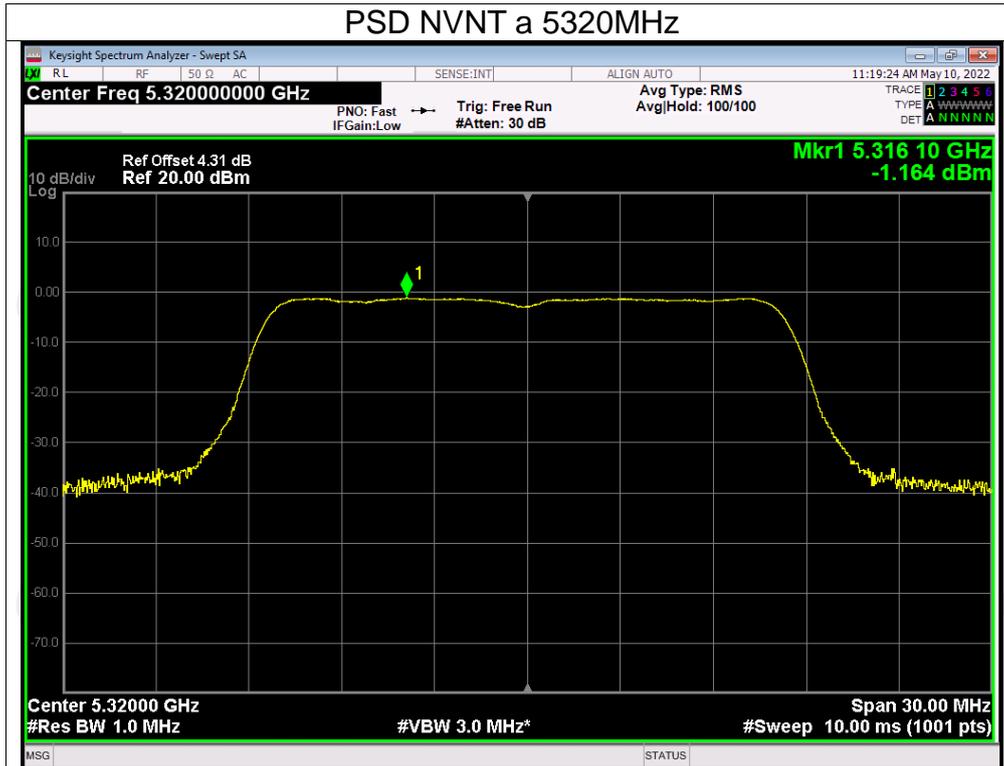
Test Graphs

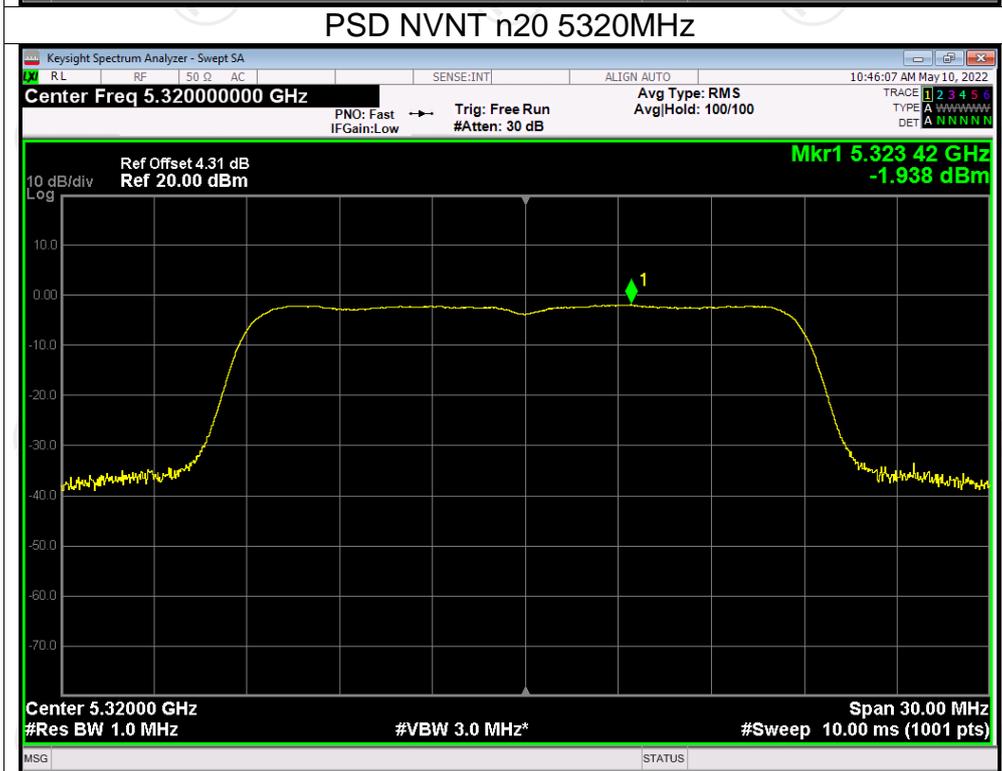
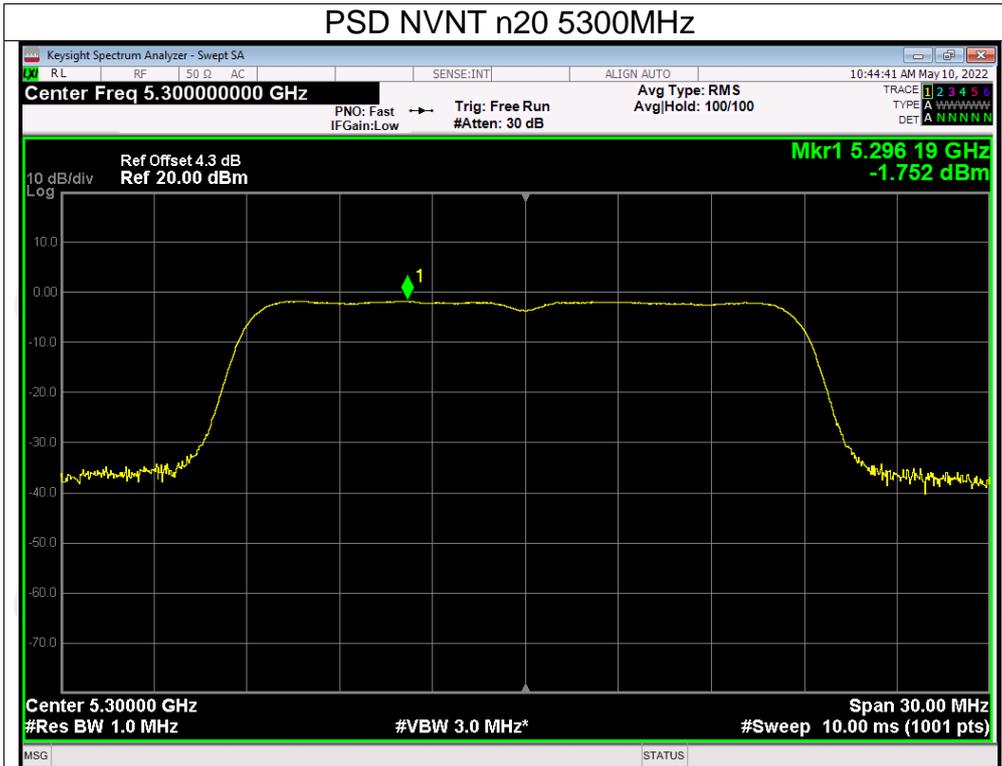
PSD NVNT a 5260MHz

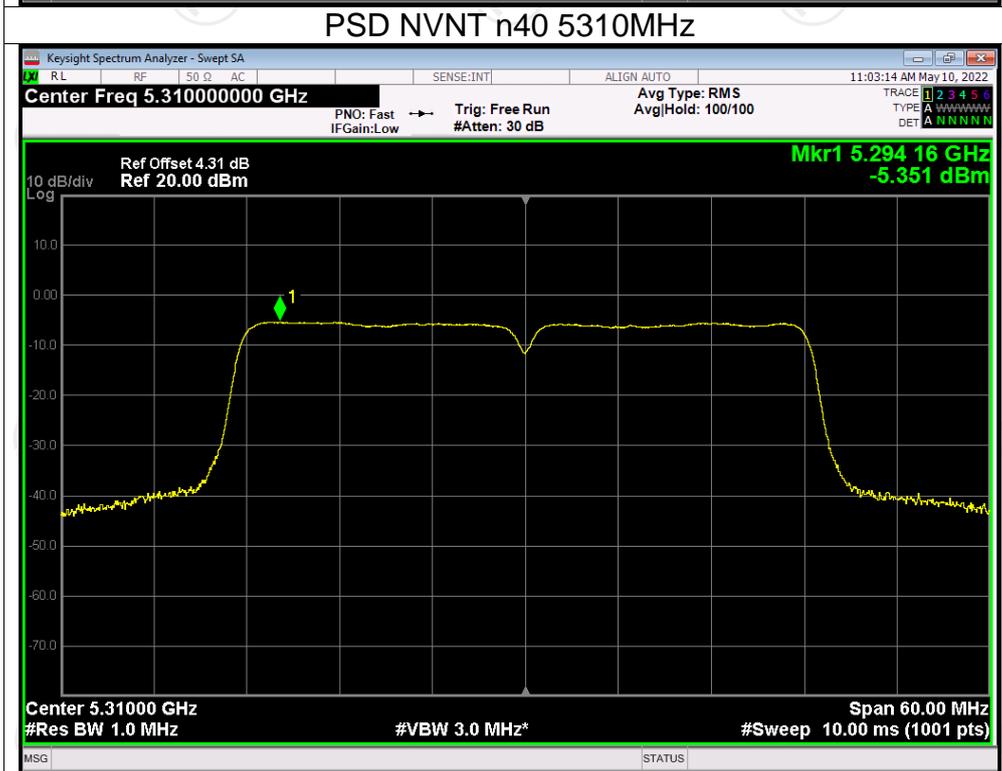
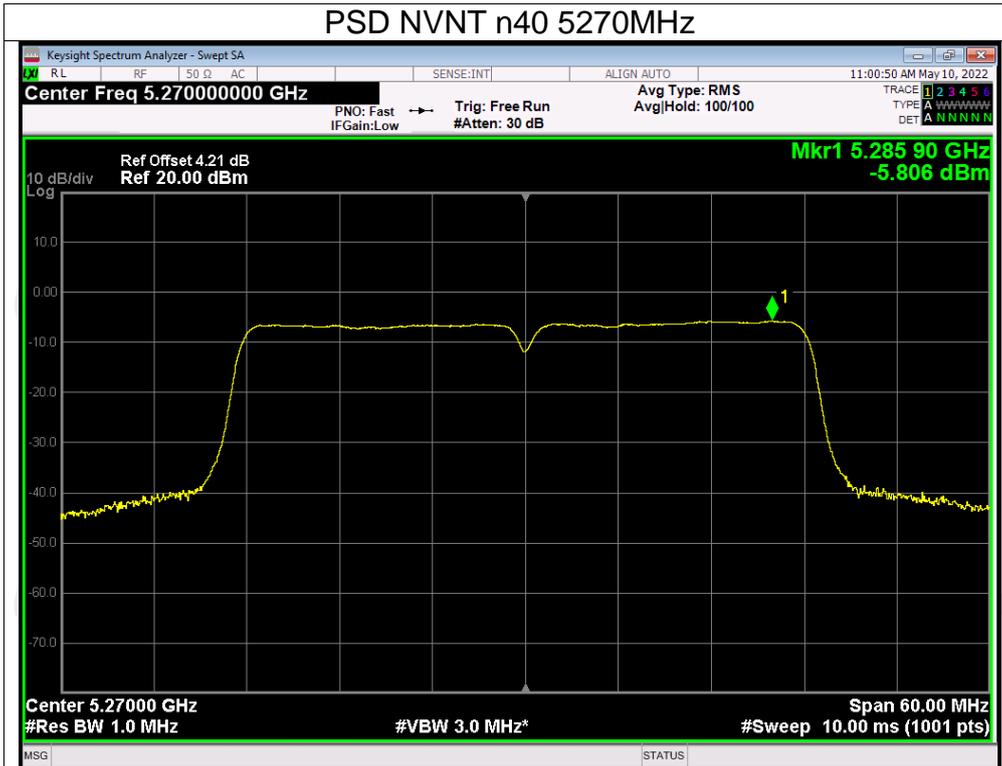


PSD NVNT a 5300MHz

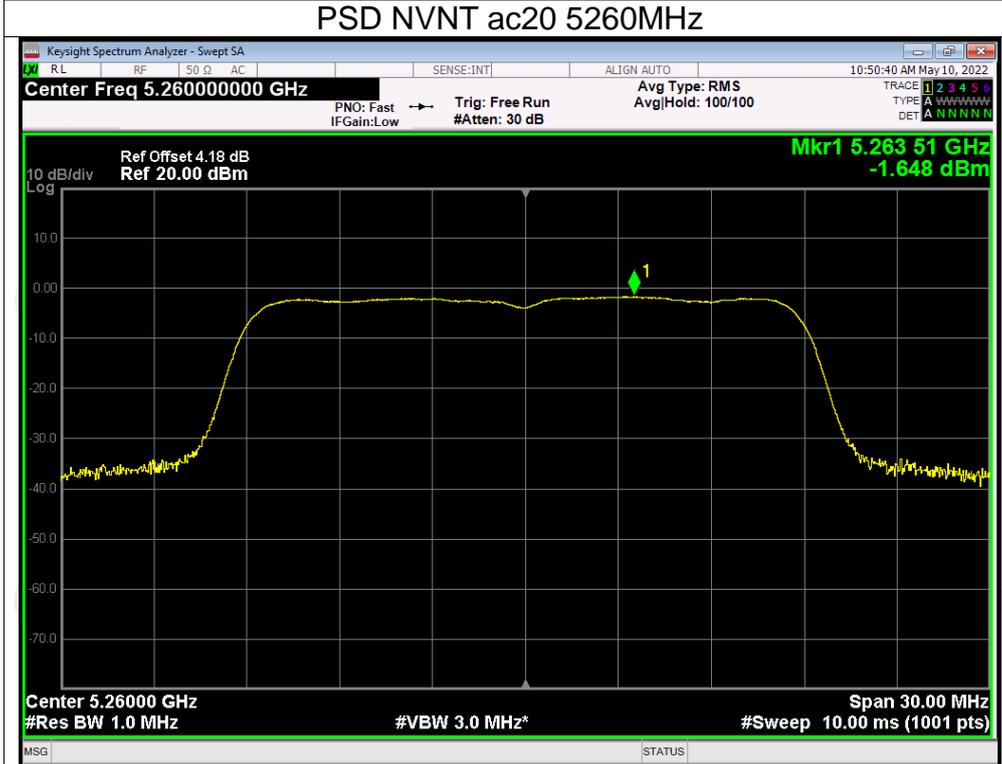




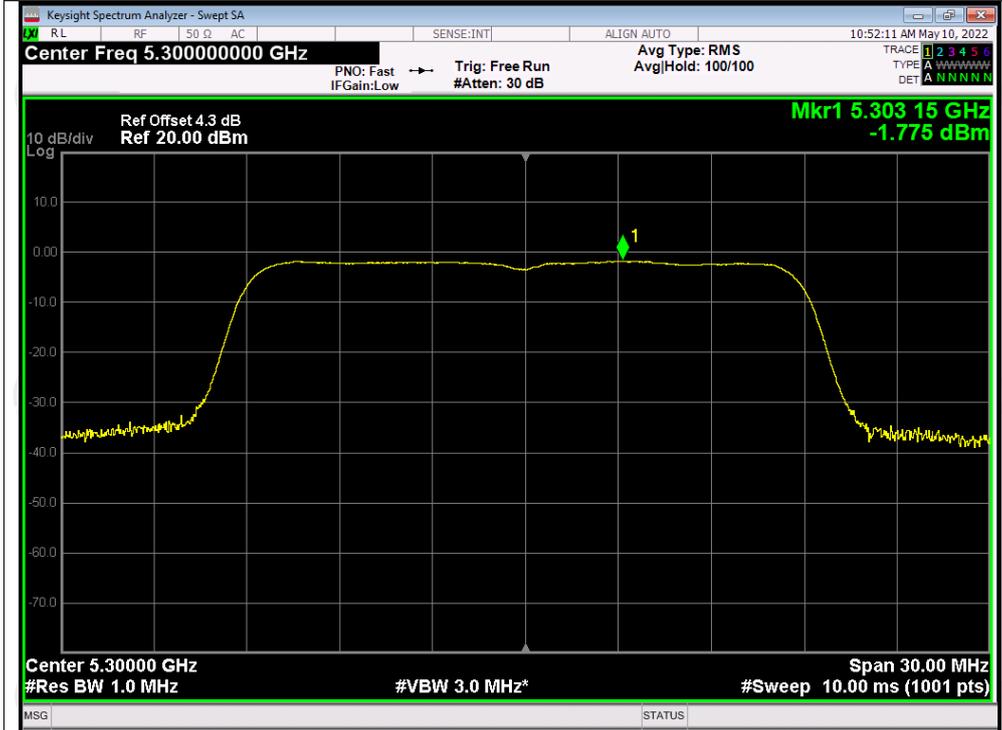




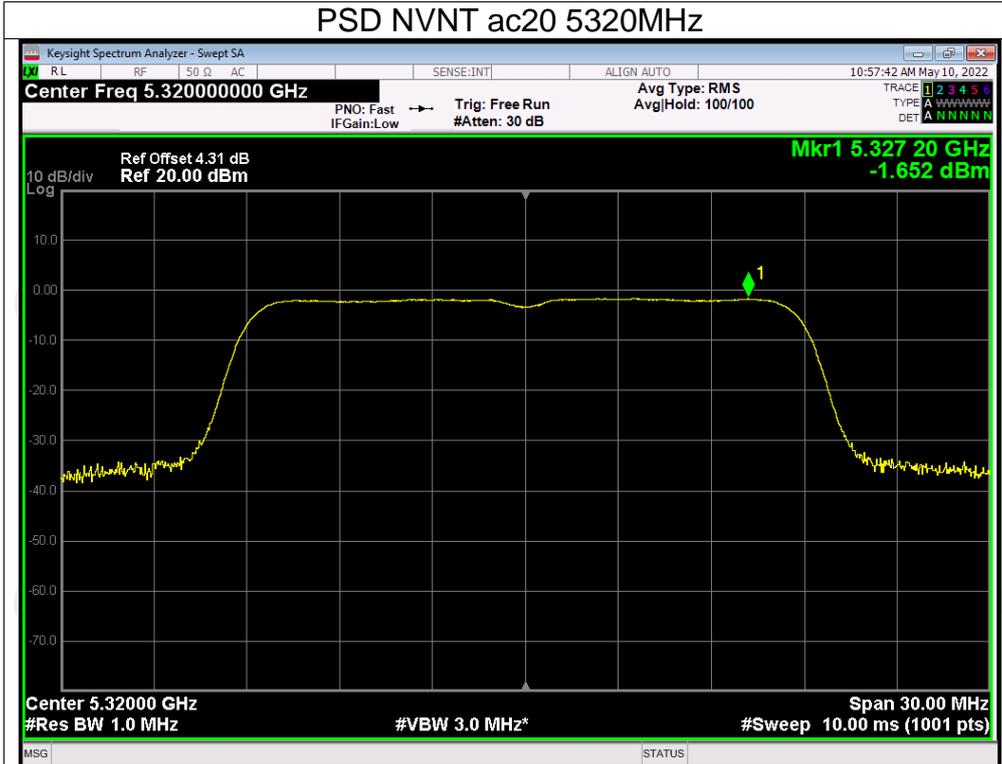
PSD NVNT ac20 5260MHz



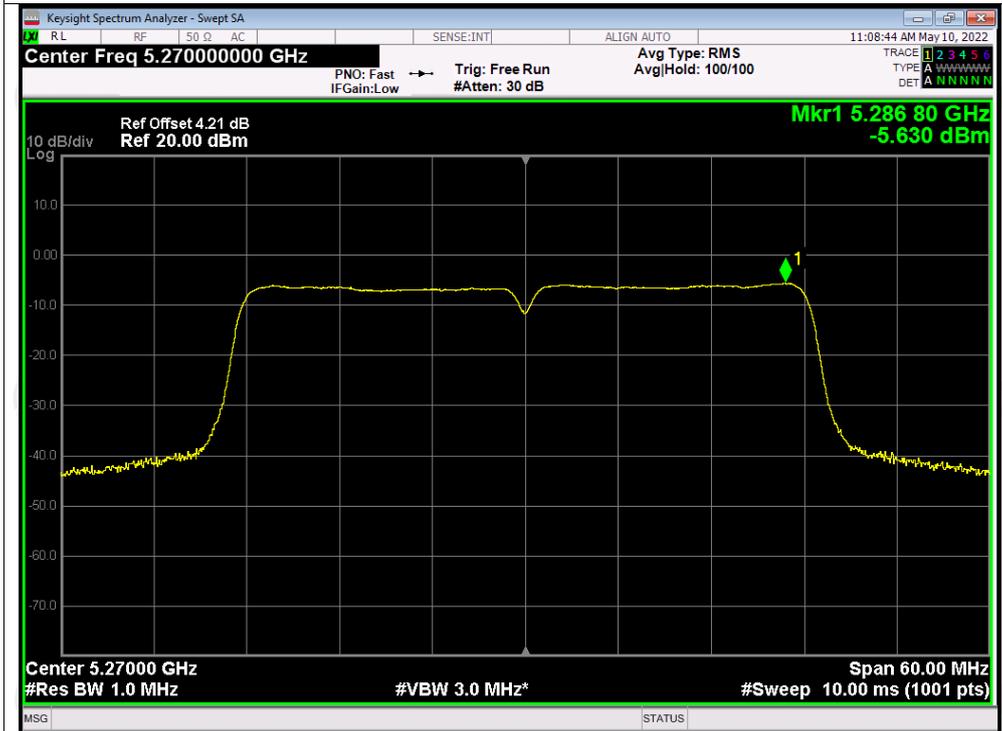
PSD NVNT ac20 5300MHz



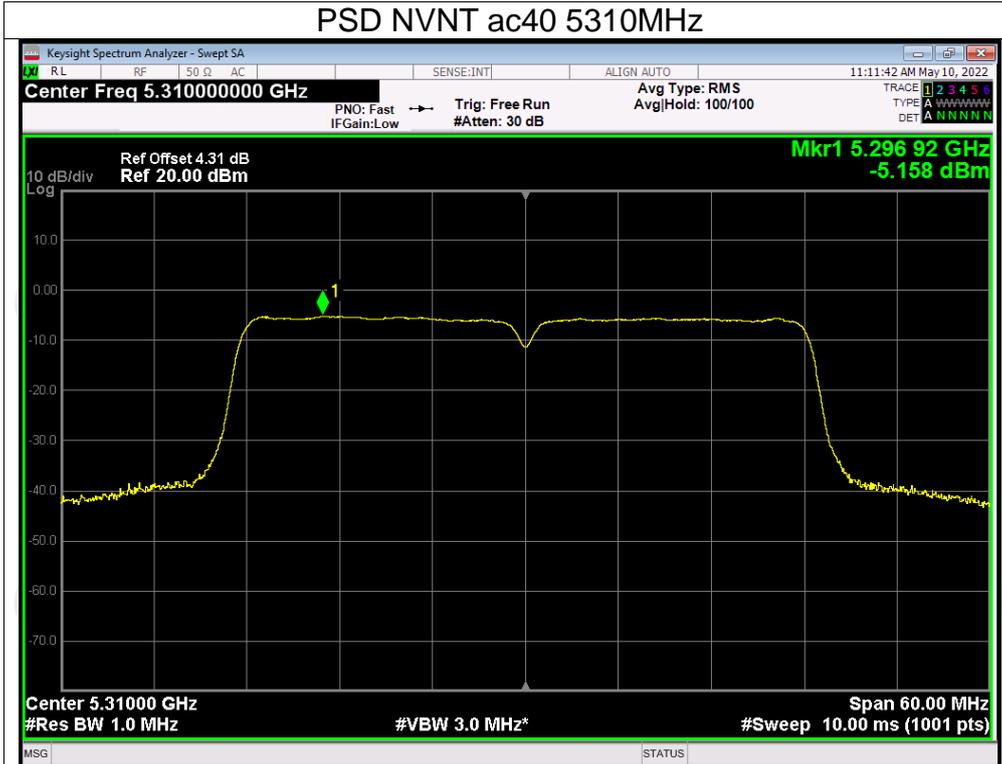
PSD NVNT ac20 5320MHz



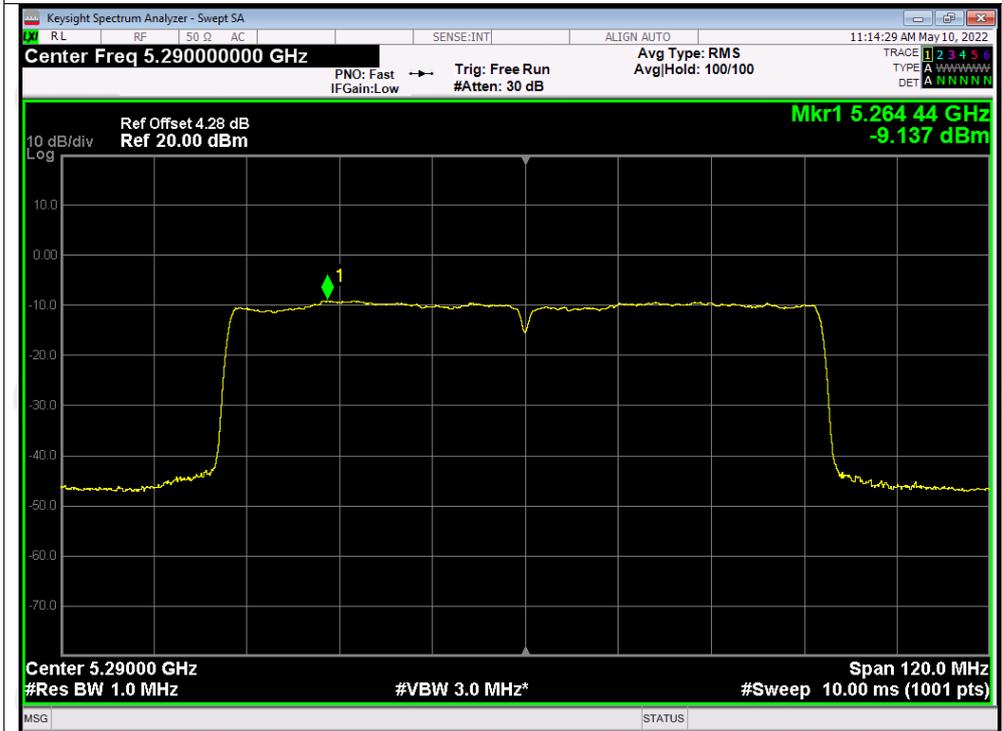
PSD NVNT ac40 5270MHz



PSD NVNT ac40 5310MHz

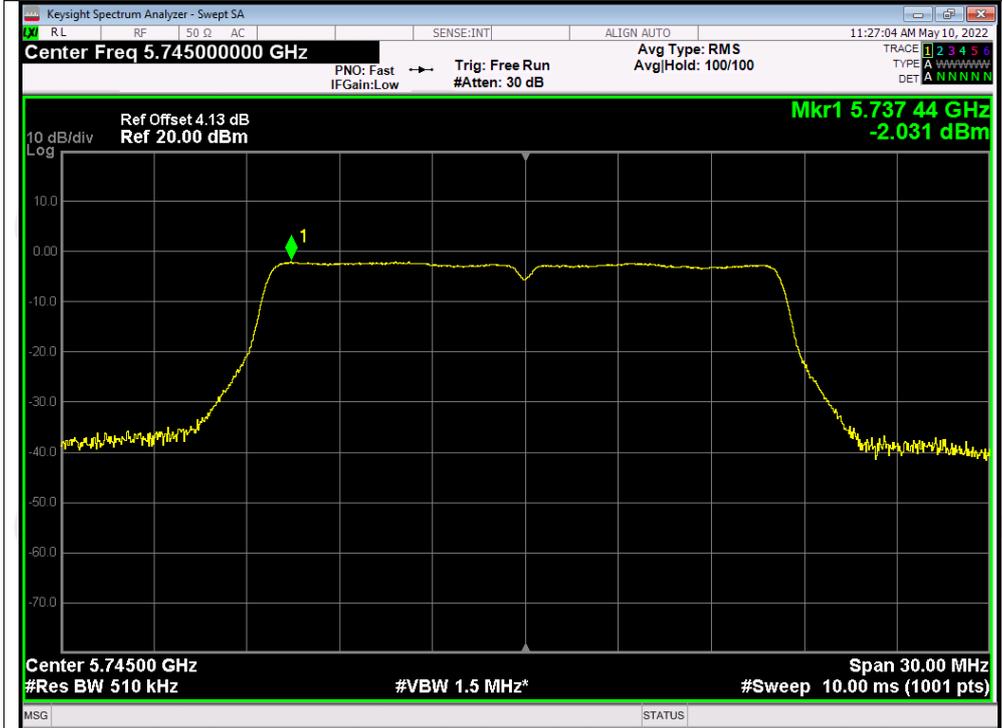


PSD NVNT ac80 5290MHz

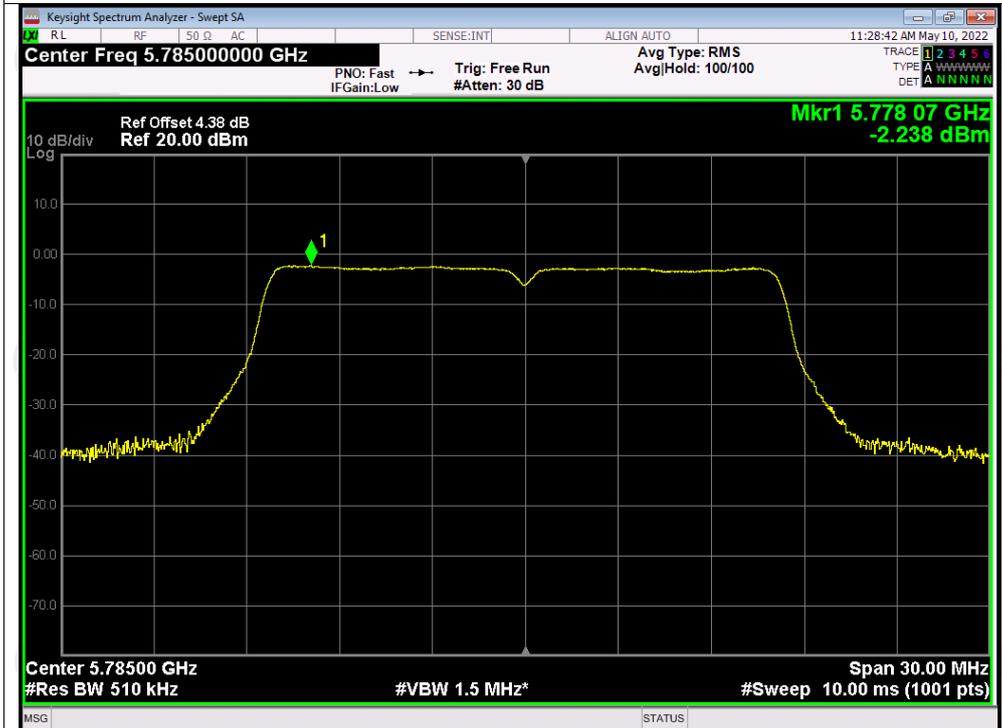


Test Graphs

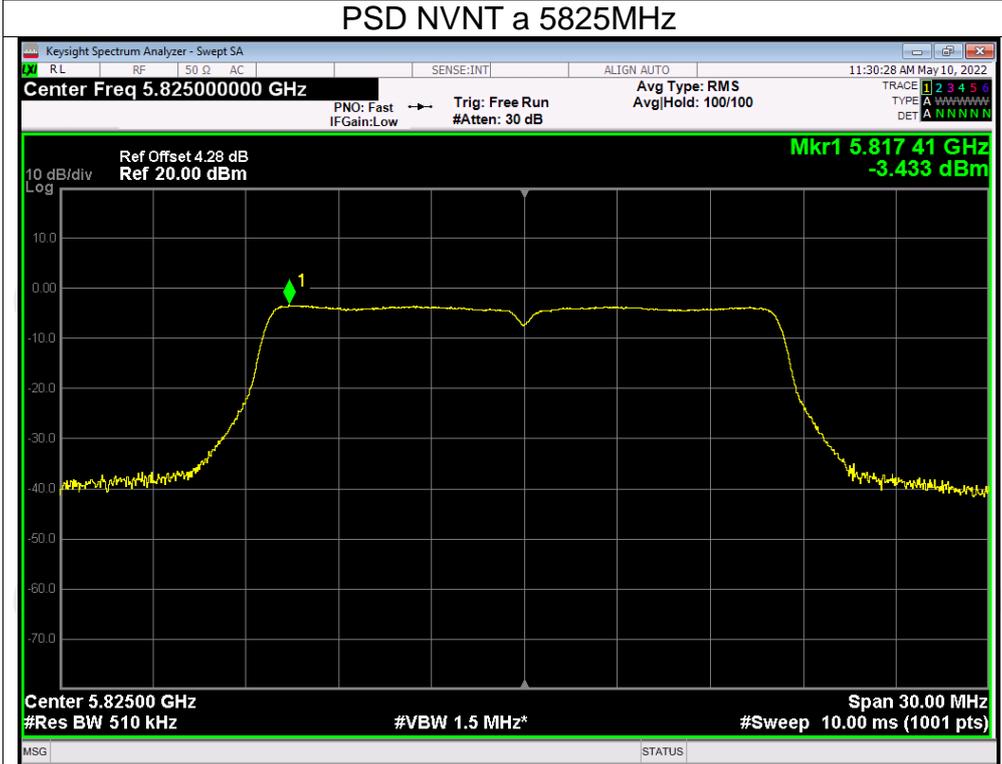
PSD NVNT a 5745MHz



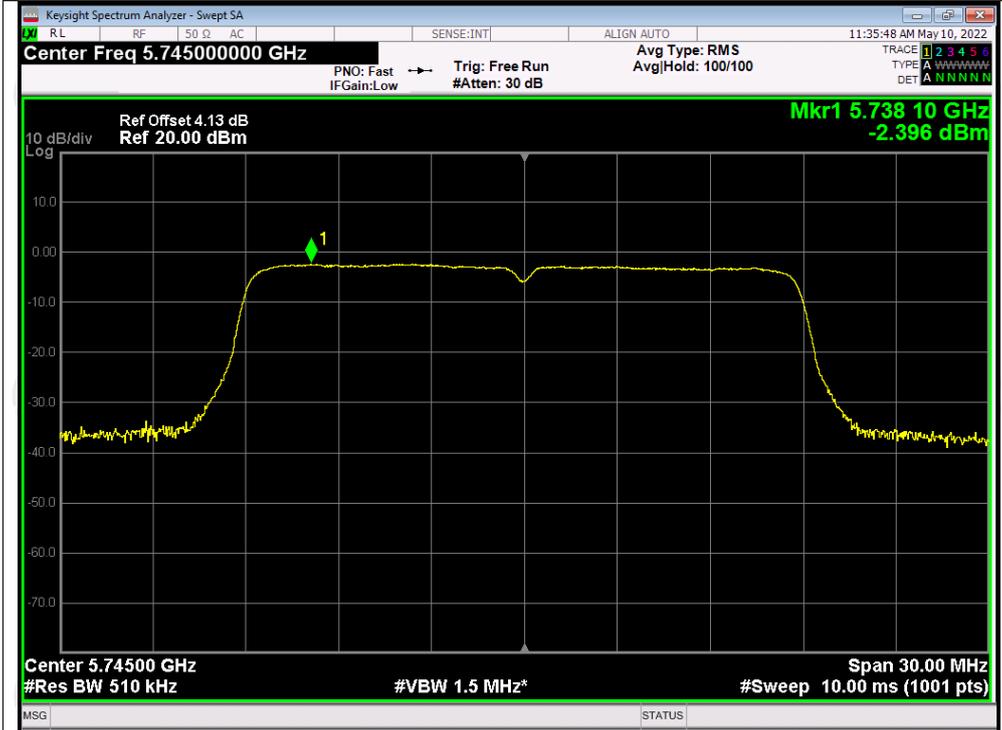
PSD NVNT a 5785MHz

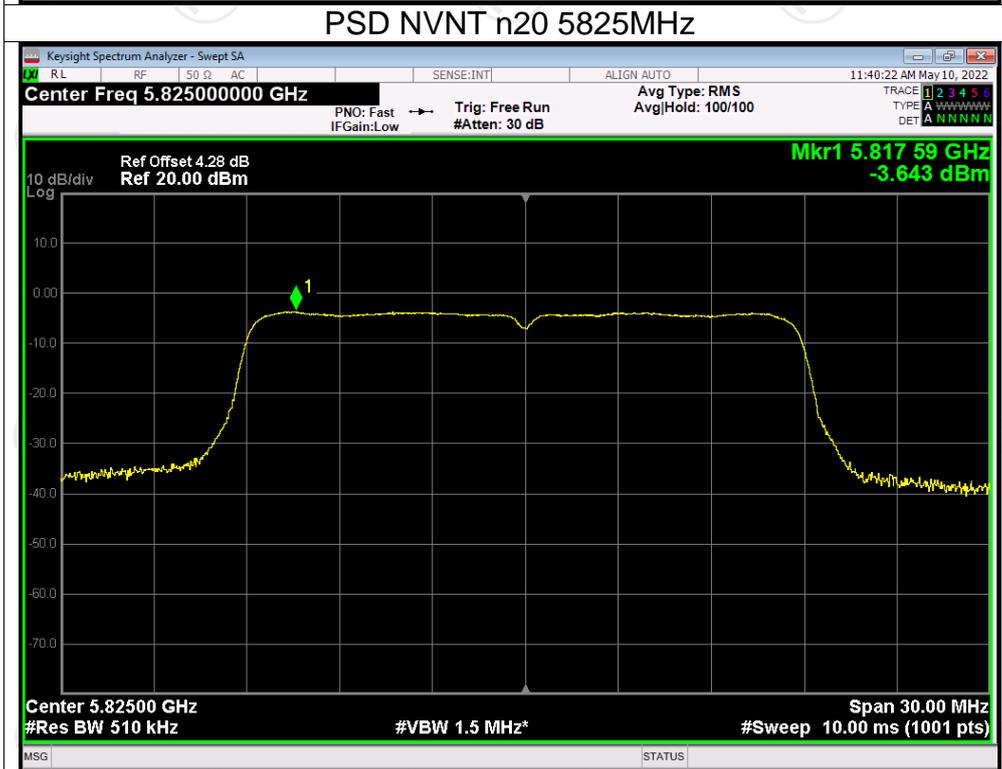
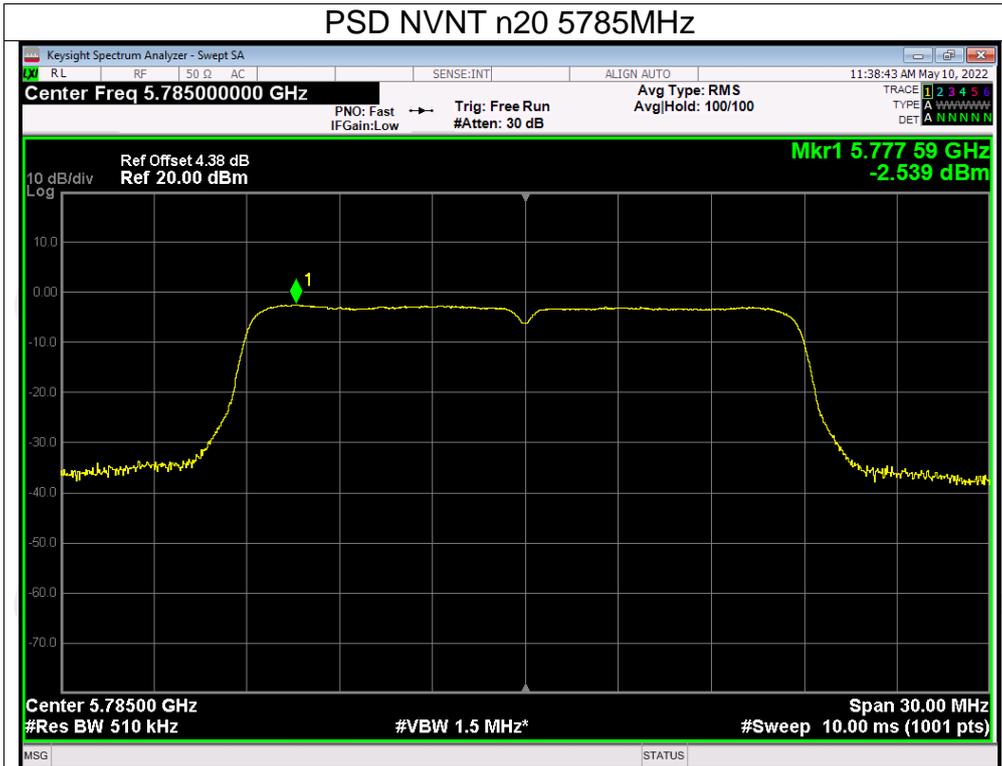


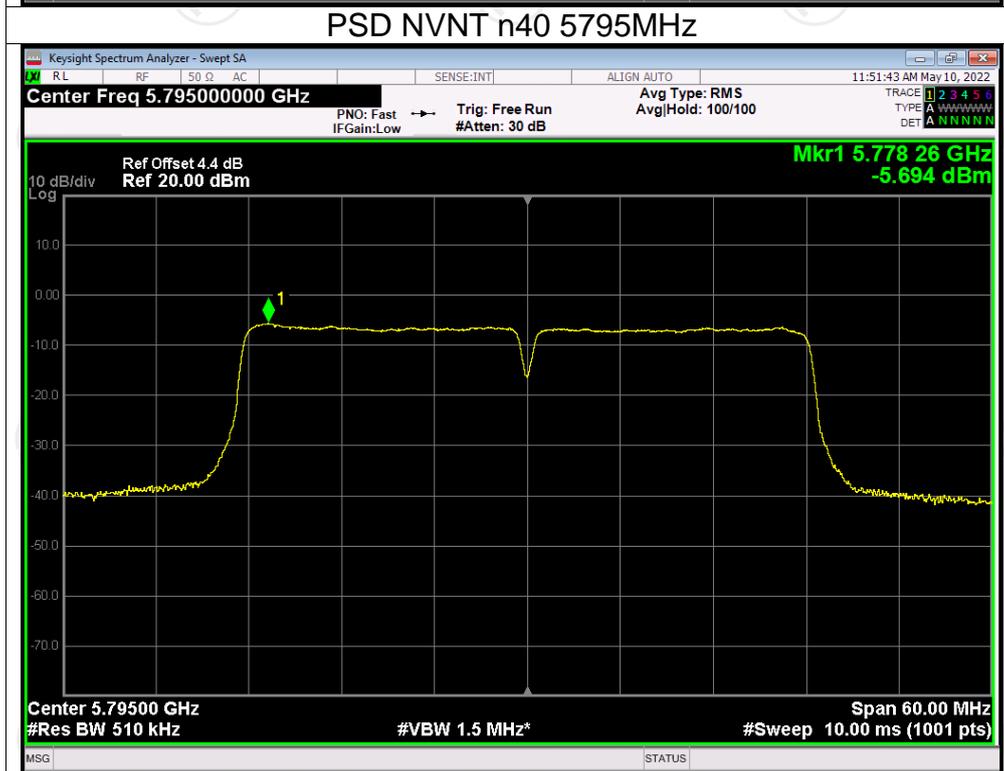
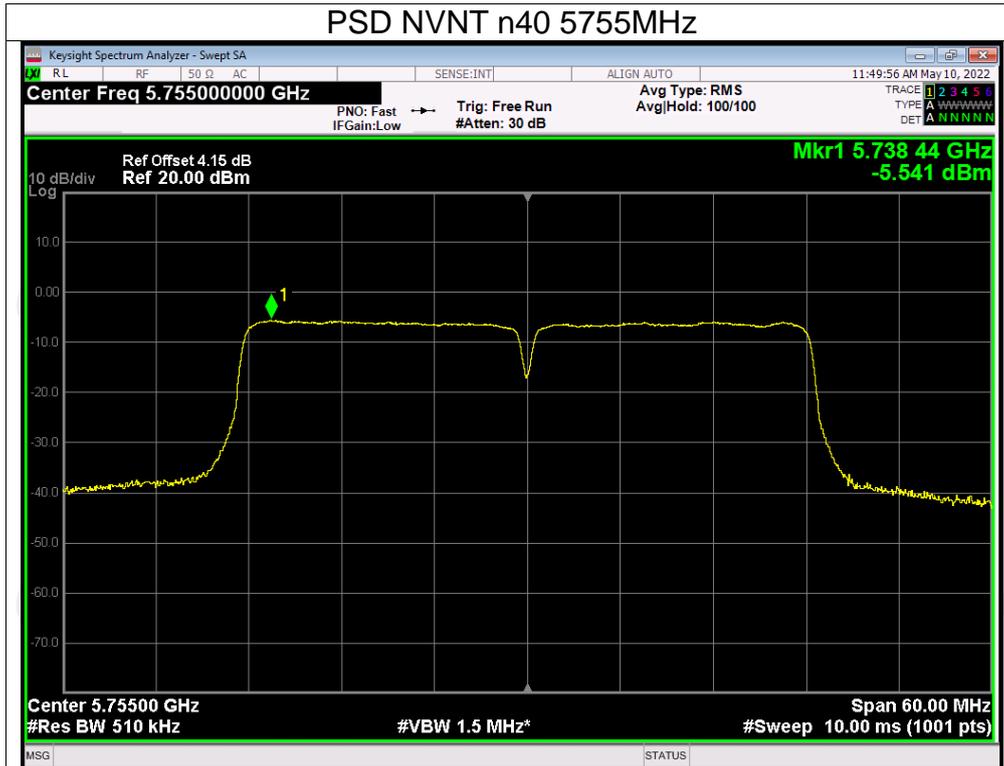
PSD NVNT a 5825MHz



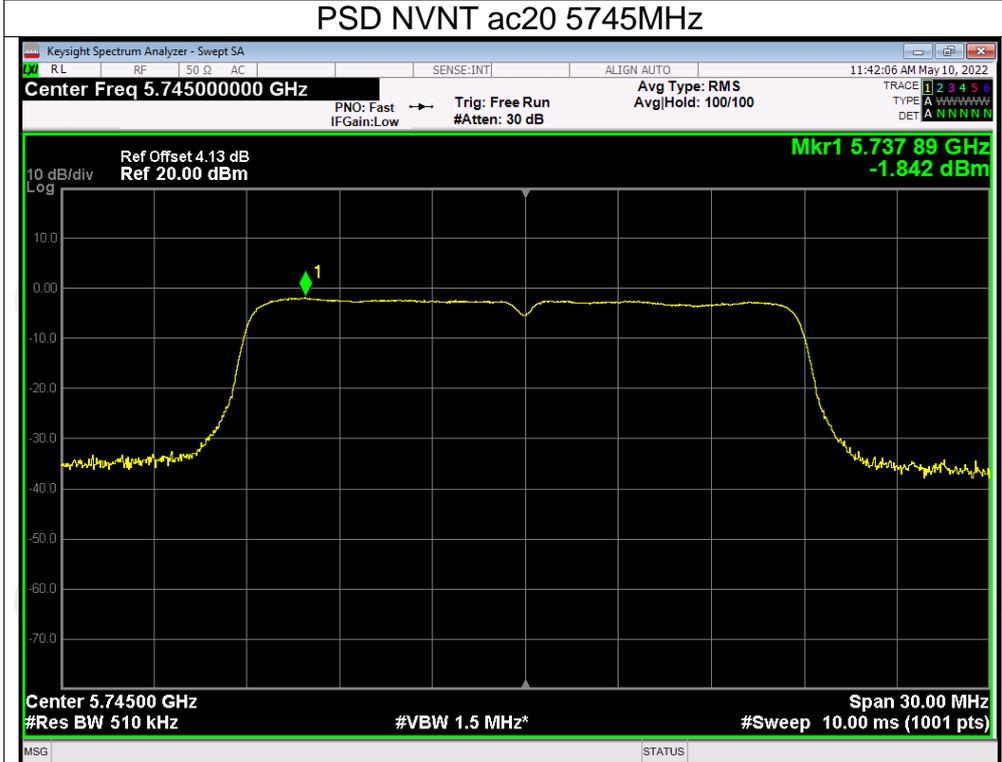
PSD NVNT n20 5745MHz



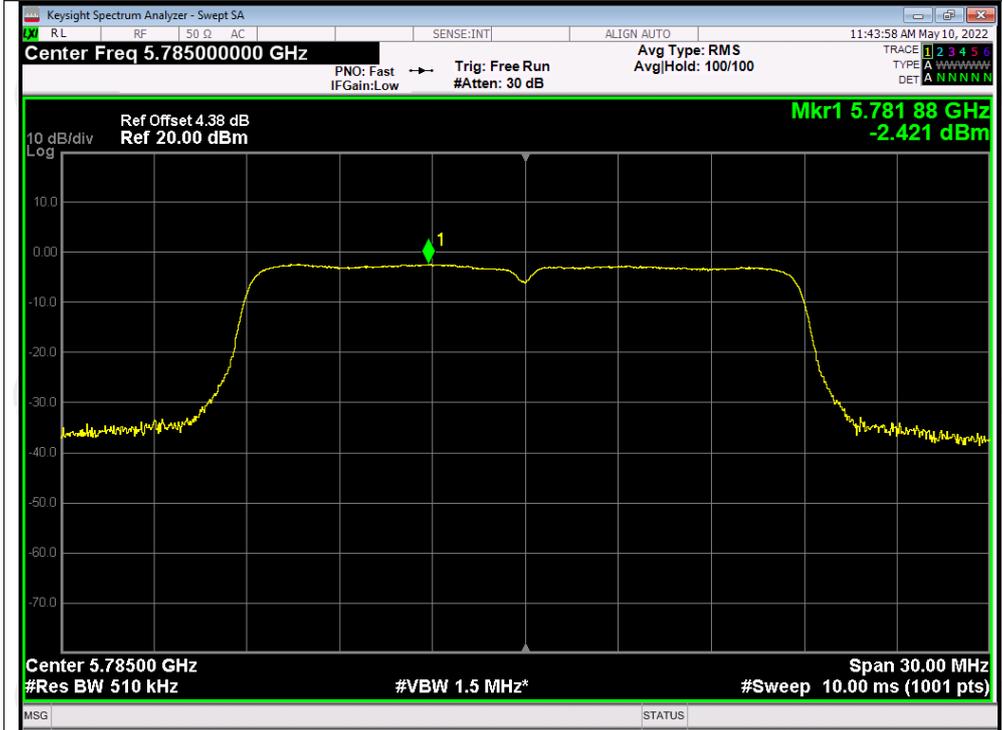




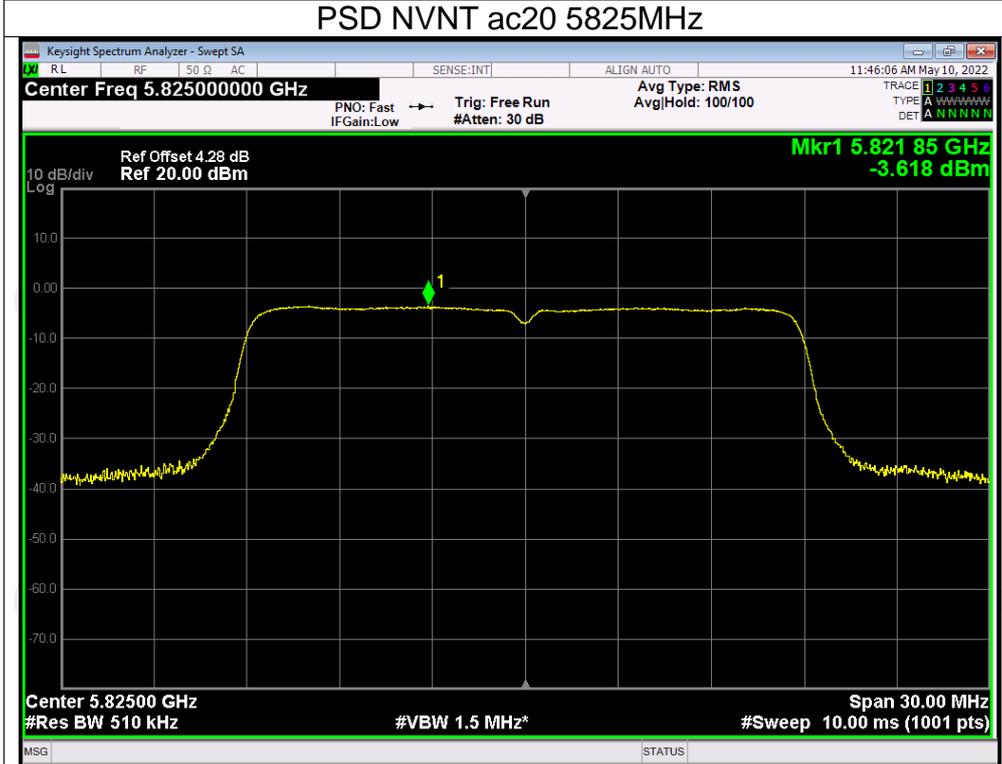
PSD NVNT ac20 5745MHz



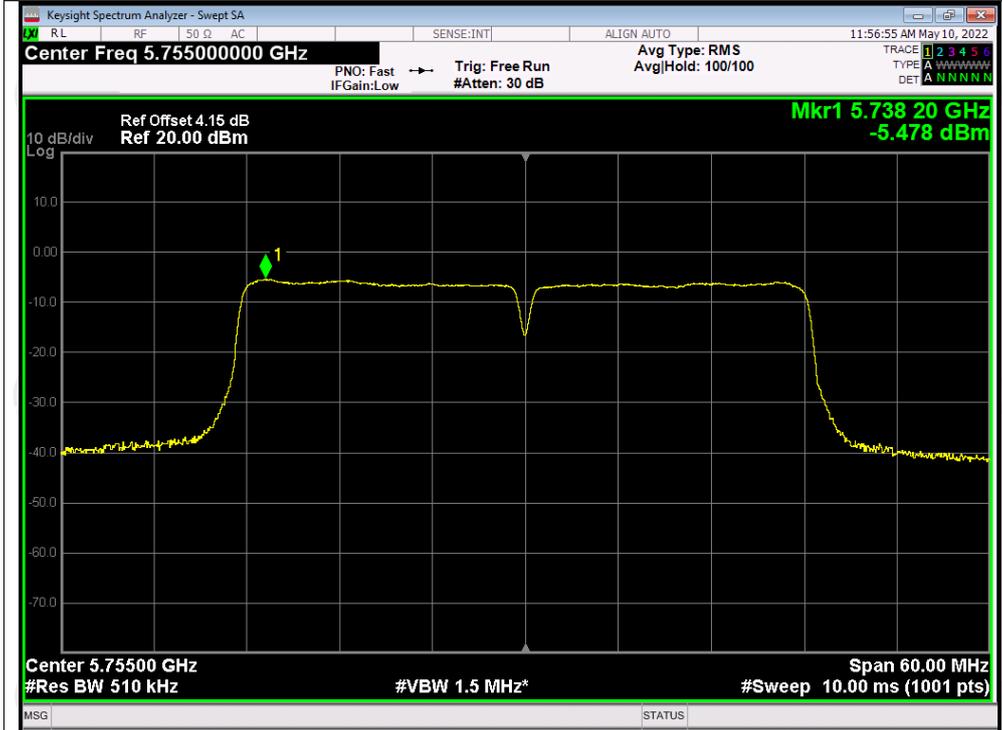
PSD NVNT ac20 5785MHz



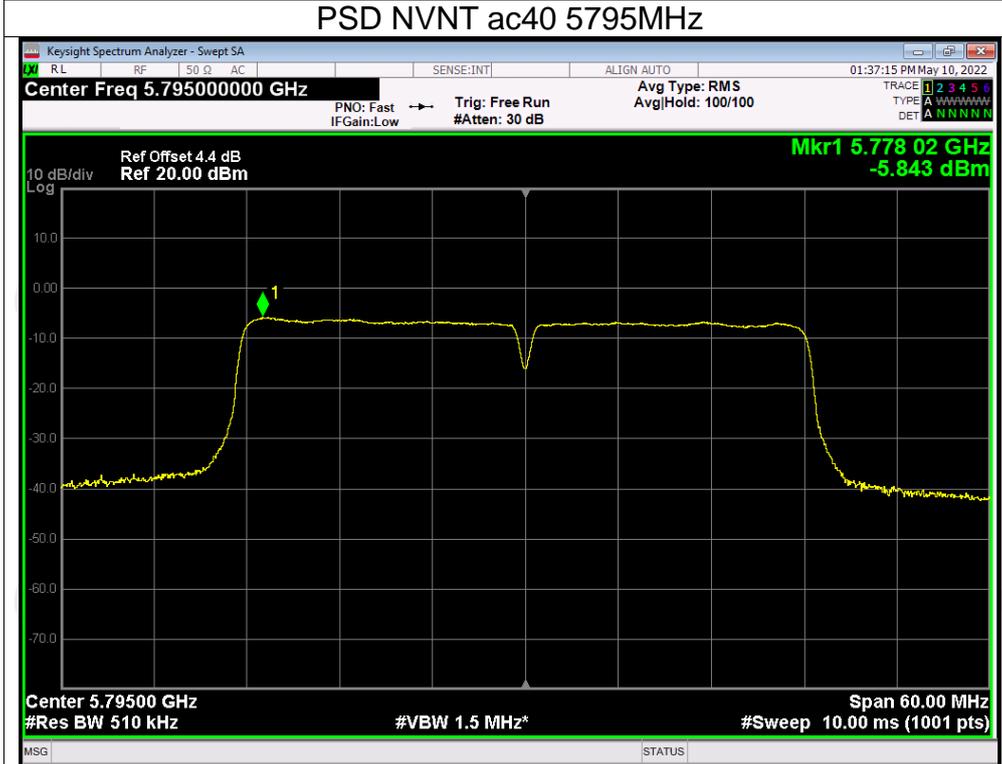
PSD NVNT ac20 5825MHz



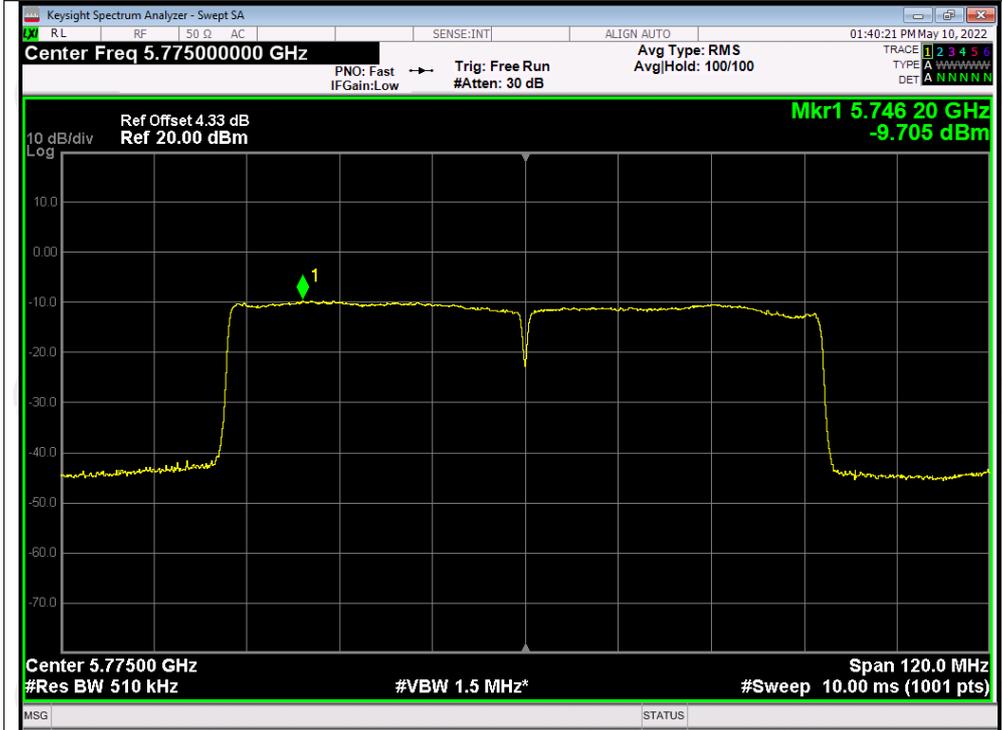
PSD NVNT ac40 5755MHz



PSD NVNT ac40 5795MHz



PSD NVNT ac80 5775MHz



Appendix B: Photographs of Test Setup

Refer to the test report No. TCT220422E002

Appendix C: Photographs of EUT

Refer to the test report No. TCT220422E002

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

