




# TEST REPORT

FCC ID..... :	2A525-M600	
Test Report No..... :	TCT240508E018	
Date of issue..... :	Jul. 02, 2024	
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Jiangsu Zhong Heng Pet Articles Joint-stock CO., LTD	
Address..... :	NO.1388 Century Avenue, Yandu District, Yancheng City, Jiangsu, China	
Manufacturer's name ... :	Jiangsu Zhong Heng Pet Articles Joint-stock CO., LTD	
Address..... :	NO.1388 Century Avenue, Yandu District, Yancheng City, Jiangsu, 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..... :	SMARTO M600 Automatic cat litter box	
Trade Mark ..... :	N/A	
Model/Type reference..... :	M600	
Rating(s)..... :	Adapter Information: Model: TEKA-TD120150US Input: AC 100–240V, 50/60Hz, 0.7A MAX Output: DC 12.0V, 1.5A	
Date of receipt of test item ..... :	May 08, 2024	
Date (s) of performance of test..... :	May 08, 2024 ~ Jul. 02, 2024	
Tested by (+signature) ... :	Yannie ZHONG	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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**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.....:	SMARTO M600 Automatic cat litter box
Model/Type reference.....:	M600
Sample Number.....:	TCT240508E017-0101
Operation Frequency .....	Band 1: 5180 MHz ~ 5240 MHz Band 2A: 5260 MHz ~ 5320 MHz Band 2C: 5500 MHz ~ 5700 MHz Band 3: 5745 MHz ~ 5825 MHz
Channel Bandwidth.....:	802.11a: 20MHz 802.11n: 20MHz, 40MHz
Modulation Technology .....	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type .....	64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	Band 1: 1.97dBi Band 2A: 1.08dBi Band 2C: 1.60dBi Band 3: -0.84dBi
Rating(s).....:	Adapter Information: Model: TEKA-TD120150US Input: AC 100–240V, 50/60Hz, 0.7A MAX Output: DC 12.0V, 1.5A

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	
Channel	Frequency	Channel	Frequency
36	5180	38	5190
40	5200	46	5230
48	5240		

#### Band 2A

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

#### Band 2C

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
100	5500	102	5510
120	5600	118	5590
140	5700	134	5670

#### Band 3

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
149	5745	151	5755
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	N/A
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:	AmebaD_mptool_2V1
Power Level:	100
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 &amp; 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

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

TEL: +86-755-27673339

### 4.3. Measurement Uncertainty

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

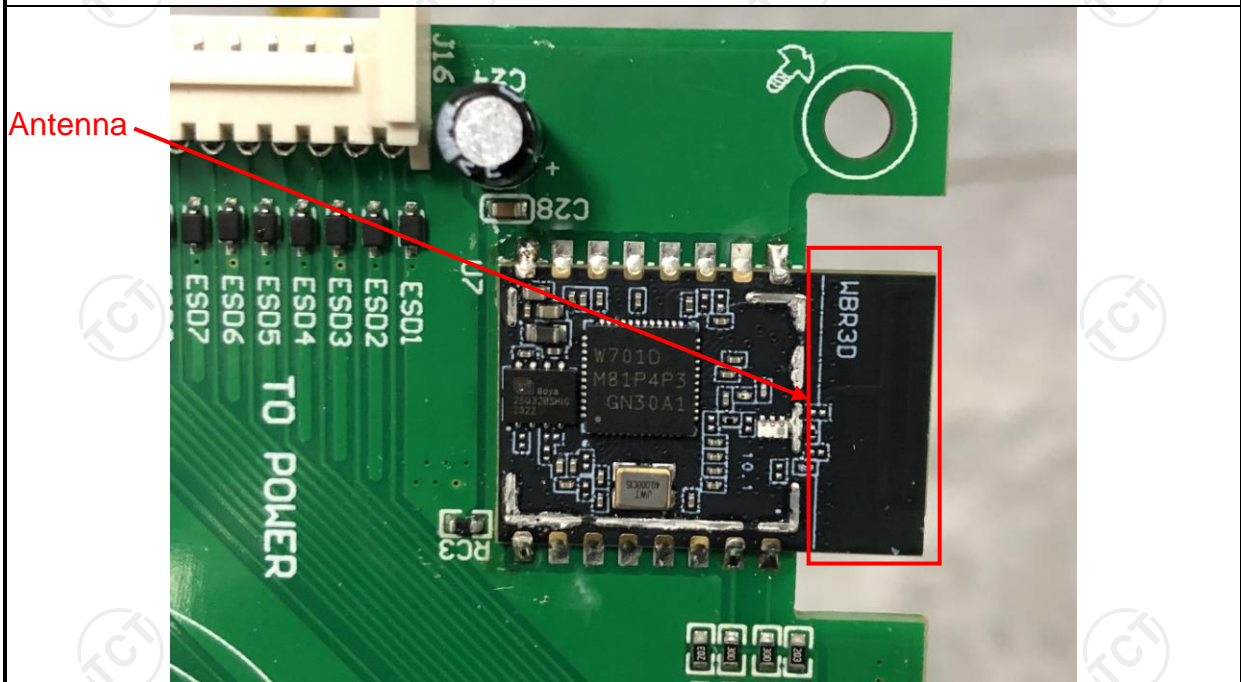
No.	Item	MU
1	Conducted Emission	$\pm 3.10$ dB
2	RF power, conducted	$\pm 0.12$ dB
3	Spurious emissions, conducted	$\pm 0.11$ dB
4	All emissions, radiated(<1 GHz)	$\pm 4.56$ dB
5	All emissions, radiated(1 GHz - 18 GHz)	$\pm 4.22$ dB
6	All emissions, radiated(18 GHz- 40 GHz)	$\pm 4.36$ dB



## 5. Test Results and Measurement Data

### 5.1. Antenna requirement

<b>Standard requirement:</b>	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>	
<b>E.U.T Antenna:</b>	
<p>The EUT antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 1.97dBi at UNII-B1.</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><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	<div><div>Reference Plane</div><div>40cm</div><div><div>E.U.T</div><div>AC power</div><div>Test table/Insulation plane</div></div><div>80cm</div><div>LISN</div><div>Filter</div><div>AC power</div><div>EMI Receiver</div></div> <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Charging														
Test Procedure:	<div>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.</div> <div>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).</div> <div>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.</div>														
Test Result:	PASS														

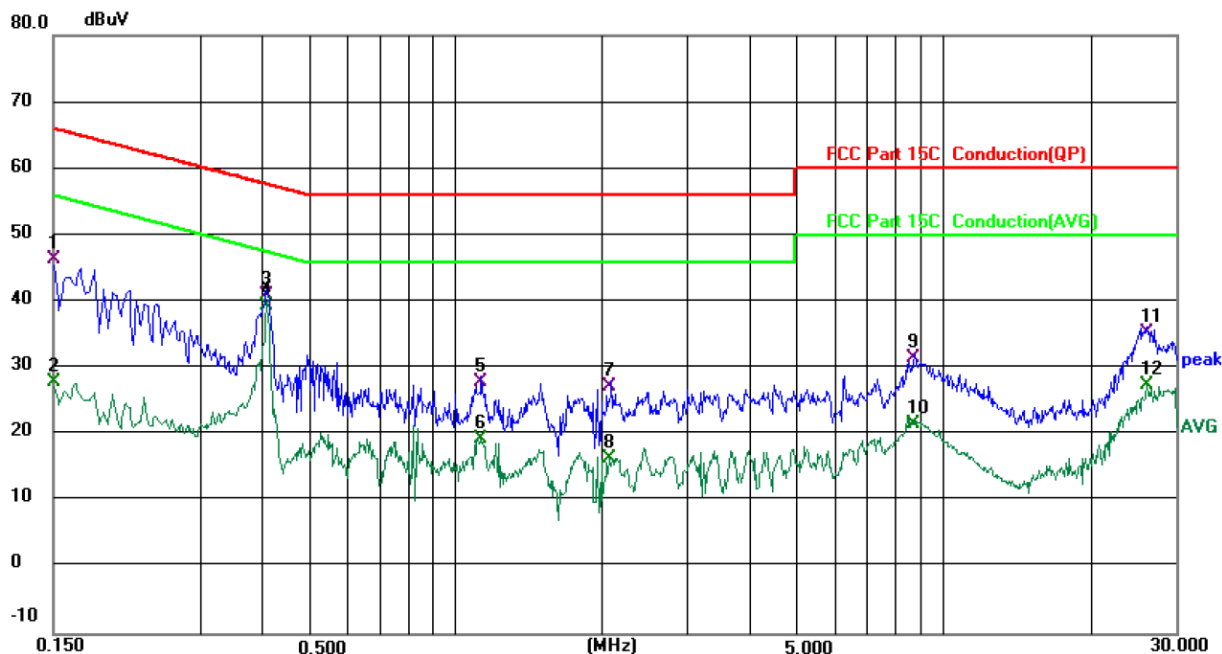
**5.2.2. Test Instruments**

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jun. 27, 2025
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025
Line-5	TCT	CE-05	/	Jun. 27, 2025
EMI Test Software	Shurple Technology	EZ-EMC	/	/

## 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: 24.5 (°C)

Humidity: 56 %

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		0.1500	36.39	10.02	46.41	66.00	-19.59	QP	
2		0.1500	17.90	10.02	27.92	56.00	-28.08	AVG	
3		0.4100	31.60	9.42	41.02	57.65	-16.63	QP	
4	*	0.4100	29.99	9.42	39.41	47.65	-8.24	AVG	
5		1.1300	18.05	9.91	27.96	56.00	-28.04	QP	
6		1.1300	9.45	9.91	19.36	46.00	-26.64	AVG	
7		2.0659	17.27	10.04	27.31	56.00	-28.69	QP	
8		2.0659	6.29	10.04	16.33	46.00	-29.67	AVG	
9		8.6940	20.84	10.58	31.42	60.00	-28.58	QP	
10		8.6940	11.04	10.58	21.62	50.00	-28.38	AVG	
11		26.2620	24.49	10.89	35.38	60.00	-24.62	QP	
12		26.2620	16.54	10.89	27.43	50.00	-22.57	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

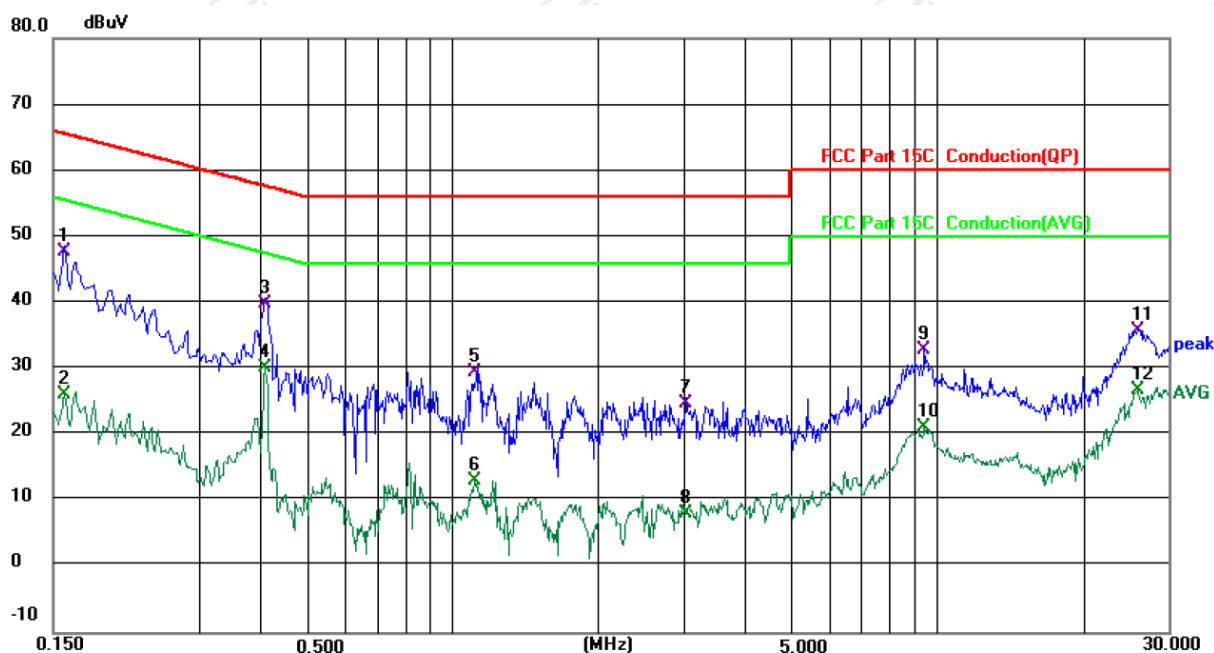
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

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: 24.5 (°C)

Humidity: 56 %

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		0.1580	37.62	10.01	47.63	65.57	-17.94	QP	
2		0.1580	16.05	10.01	26.06	55.57	-29.51	AVG	
3		0.4100	30.45	9.40	39.85	57.65	-17.80	QP	
4	*	0.4100	20.80	9.40	30.20	47.65	-17.45	AVG	
5		1.1140	19.65	9.87	29.52	56.00	-26.48	QP	
6		1.1140	3.21	9.87	13.08	46.00	-32.92	AVG	
7		3.0379	14.72	10.11	24.83	56.00	-31.17	QP	
8		3.0379	-1.89	10.11	8.22	46.00	-37.78	AVG	
9		9.4016	22.31	10.60	32.91	60.00	-27.09	QP	
10		9.4016	10.60	10.60	21.20	50.00	-28.80	AVG	
11		25.8856	24.93	10.80	35.73	60.00	-24.27	QP	
12		25.8856	15.91	10.80	26.71	50.00	-23.29	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

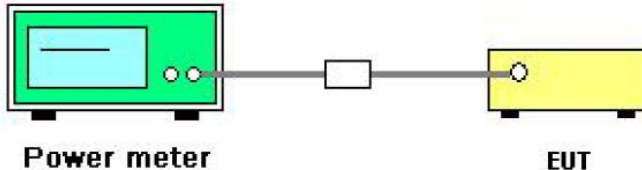
AVG =average

\* 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) and the worst case Mode (Highest channel and 802.11a) was submitted only.

### 5.3. Maximum Conducted Output Power

#### 5.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046	
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E	
Limit:	Frequency Band (MHz)	Limit
	5180 - 5240	24dBm(250mW) for client device
	5260 - 5320	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz
	5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz
	5745 - 5825	30dBm(1W)
Test Setup:	 <p>Power meter</p> <p>EUT</p>	
Test Mode:	Transmitting mode with modulation	
Test Procedure:	<ol style="list-style-type: none"><li>1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a</li><li>2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li><li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li><li>5. Measure the conducted output power and record the results in the test report.</li></ol>	
Test Result:	PASS	
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power	


**5.3.2. Test Instruments**

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2025
Power Meter	Agilent	E4418B	MY45100357	Jun. 27, 2025
Power Sensor	Agilent	8481A	MY41091497	Jun. 27, 2025
Combiner Box	Ascentest	AT890-RFB	/	/



## 5.4. 6dB Emission Bandwidth

### 5.4.1. Test Specification

<b>Test Requirement:</b>	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
<b>Test Method:</b>	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
<b>Limit:</b>	>500kHz
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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.</li> <li>4. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS


### 5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2025
Combiner Box	Ascentest	AT890-RFB	/	/



## 5.5. 26dB Bandwidth and 99% Occupied Bandwidth

### 5.5.1. Test Specification


<b>Test Requirement:</b>	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
<b>Test Method:</b>	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
<b>Limit:</b>	No restriction limits
<b>Test Setup:</b>	 Spectrum Analyzer                      EUT
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"><li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D</li><li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li><li>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.</li><li>4. Measure and record the results in the test report.</li></ol>
<b>Test Result:</b>	PASS

### 5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

## 5.6. Power Spectral Density

### 5.6.1. Test Specification

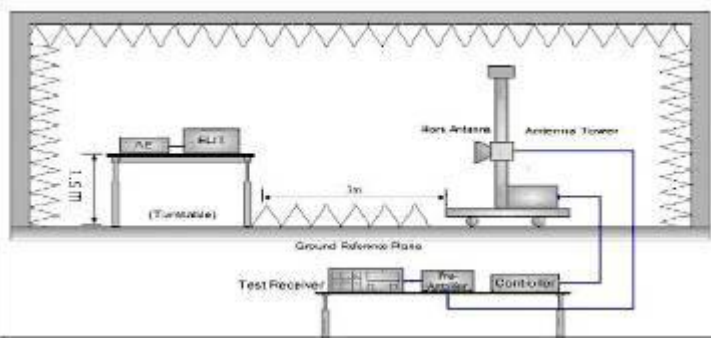
<b>Test Requirement:</b>	FCC Part15 E Section 15.407 (a)
<b>Test Method:</b>	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
<b>Limit:</b>	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.</li> <li>1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS.</li> <li>2. Allow the sweeps to continue until the trace stabilizes.</li> <li>3. Use the peak marker function to determine the maximum amplitude level.</li> </ol>
<b>Test Result:</b>	PASS

### 5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

## 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:			
	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)
	< 5650	-27	5850~5855	27~15.6
	650~5700	-27~10	5855~5875	15.6~10
	5700~5720	10~15.6	5875~5925	10~-27
	5720~5725	15.6~27	> 5925	-27
E[dBμV/m] = EIRP[dBm] + 95.2 @3m In restricted band:				
Detector		Limit@3m		
Peak		74dBμV/m		
AVG		54dBμV/m		
Test Setup:				
Test Mode:	Transmitting mode with modulation			
Test Procedure:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold</p>			

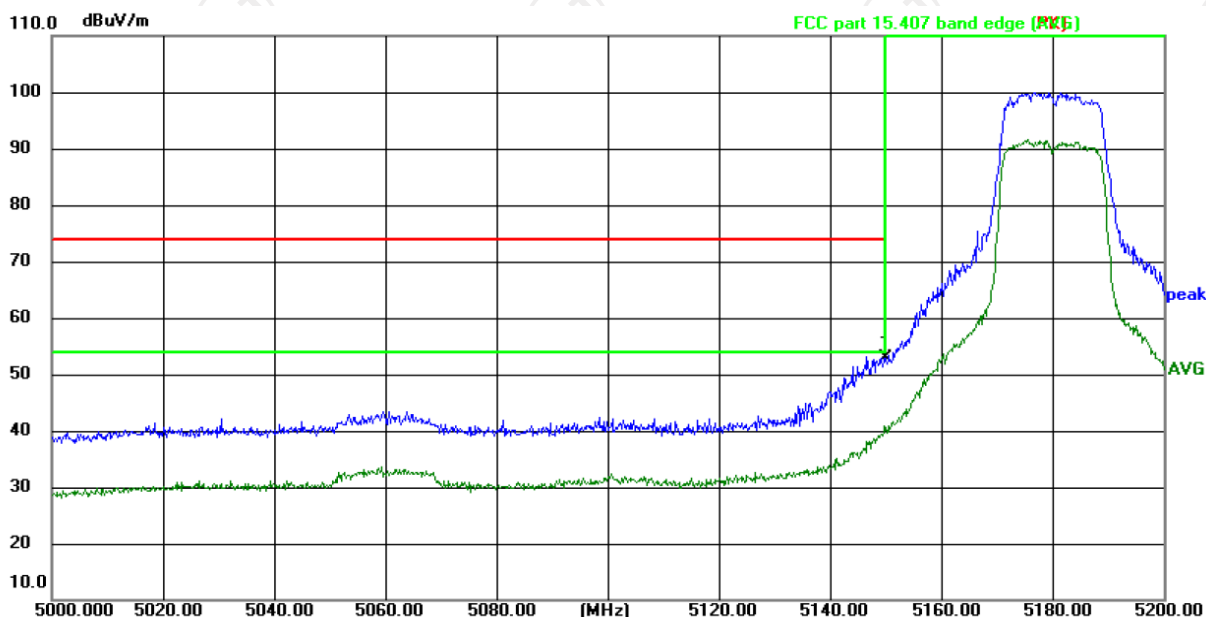
	<p>Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.</p>
<b>Test Result:</b>	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	Jun. 27, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2025
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 31, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2025
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 27, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 27, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 27, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RC-18G-N-M	/	Jan. 31, 2025
Coaxial cable	SKET	RC_40G-K-M	/	Jan. 31, 2025
Antenna Mast	Keleto	CC-A-4M	/	/
EMI Test Software	Shurple Technology	EZ-EMC	/	/

## 5.7.3. Test Data

### n20-5180

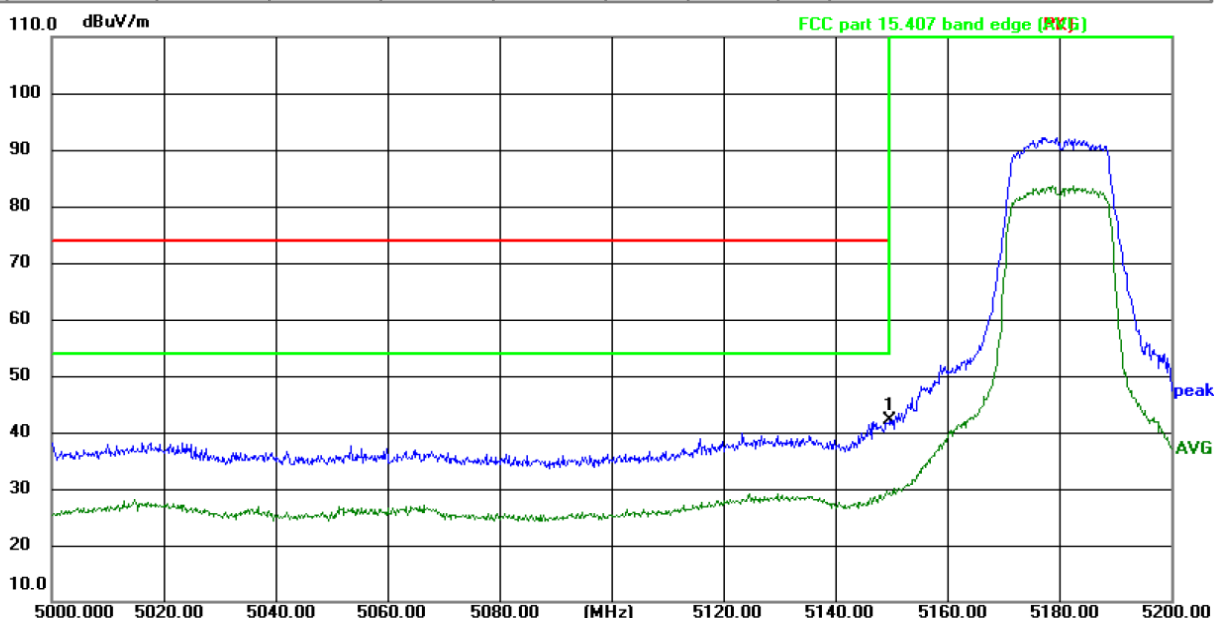


Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 23.3(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	62.15	-9.24	52.91	74.00	-21.09	peak	P	



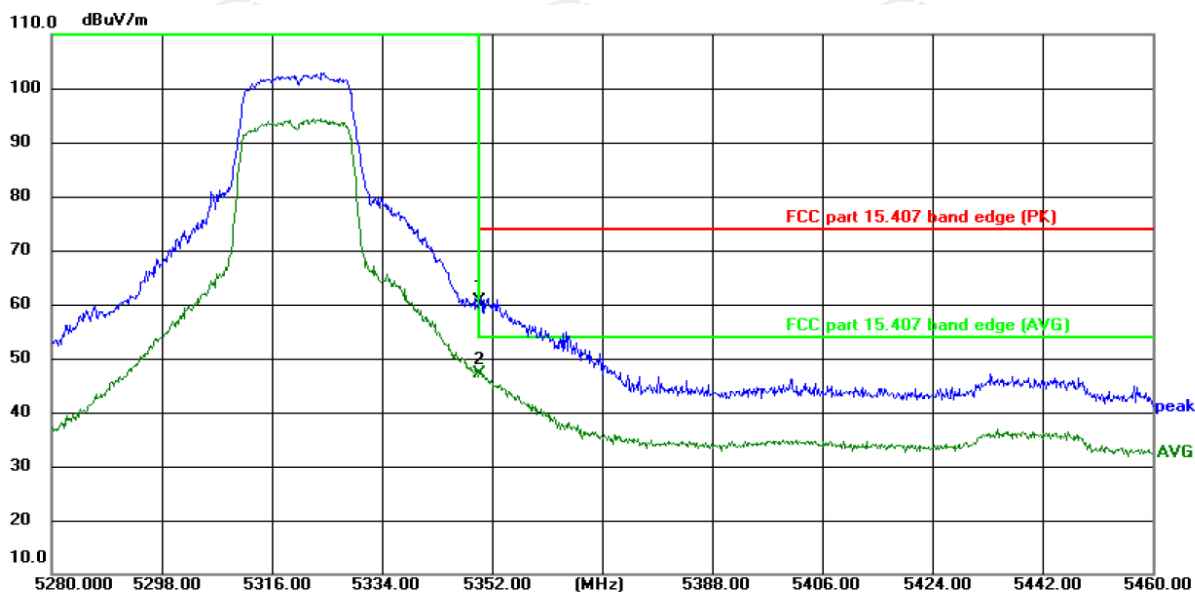
Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 23.3(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	51.27	-9.24	42.03	74.00	-31.97	peak	P	

## n20-5320



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

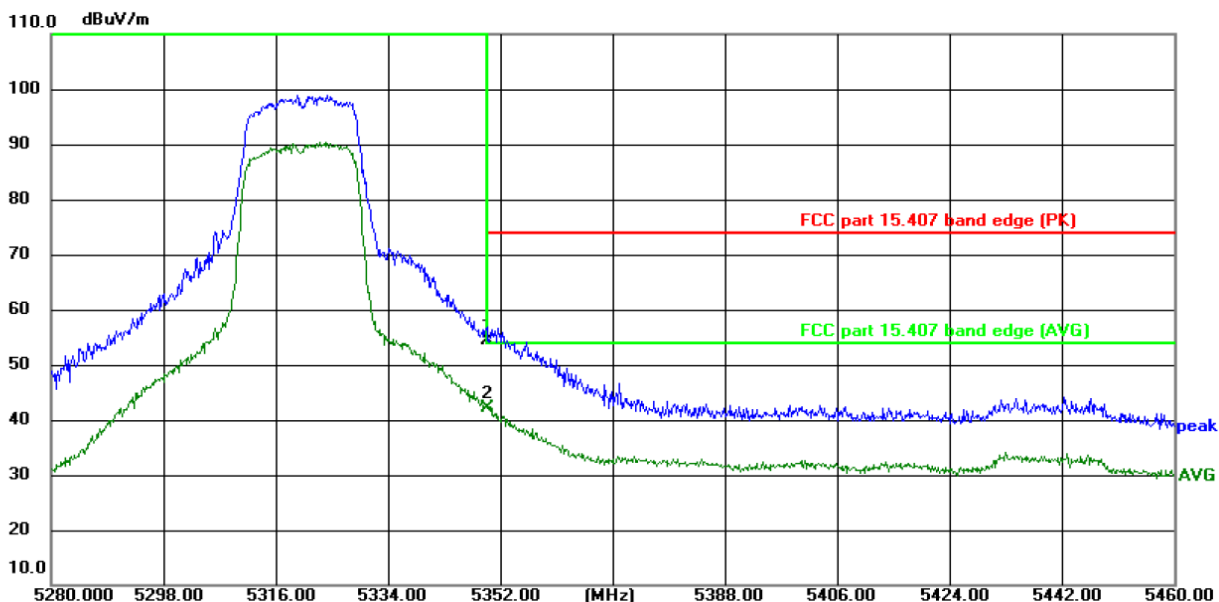
Temperature: 23.3(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	68.79	-8.15	60.64	74.00	-13.36	peak	P	
2 *	5350.000	55.29	-8.15	47.14	54.00	-6.86	AVG	P	



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.3(°C)

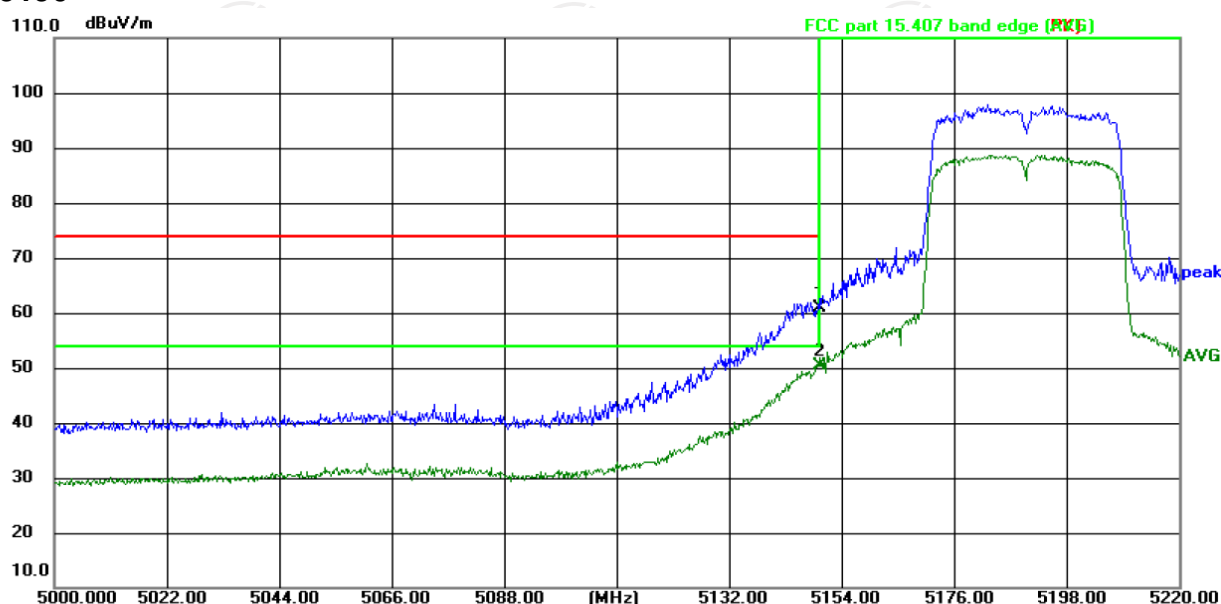
Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	62.51	-8.15	54.36	74.00	-19.64	peak	P	
2 *	5350.000	50.35	-8.15	42.20	54.00	-11.80	AVG	P	

## n40-5190



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

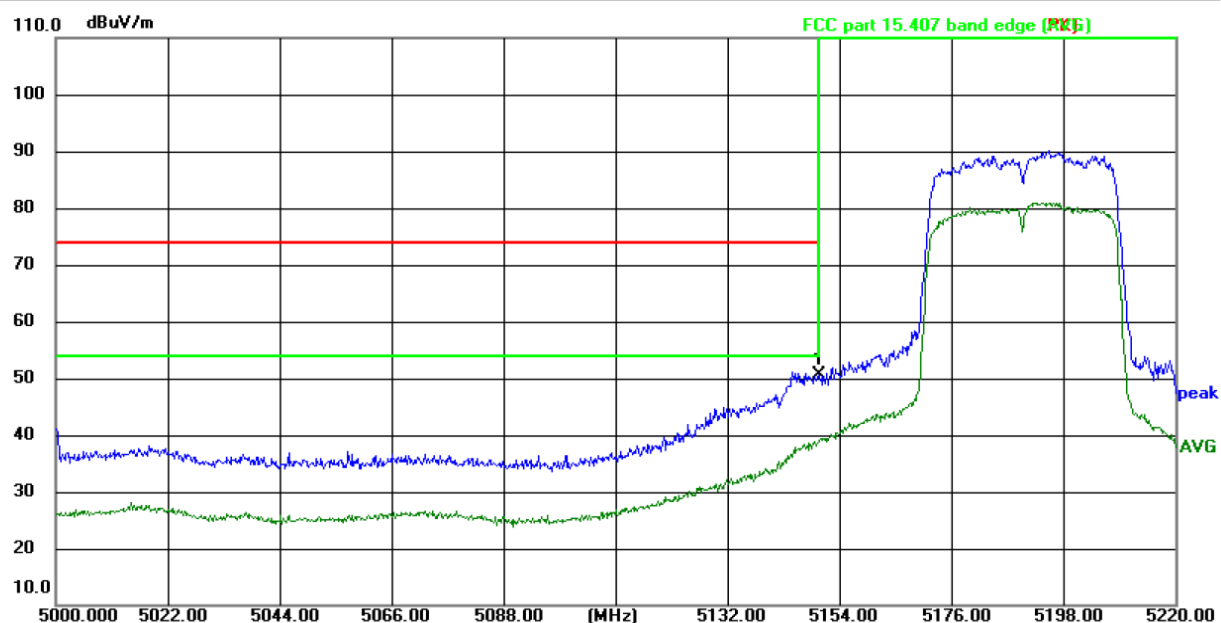
Temperature: 23.3(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	70.07	-9.24	60.83	74.00	-13.17	peak	P	
2 *	5150.000	59.54	-9.24	50.30	54.00	-3.70	AVG	P	



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.3(°C)

Humidity: 52 %

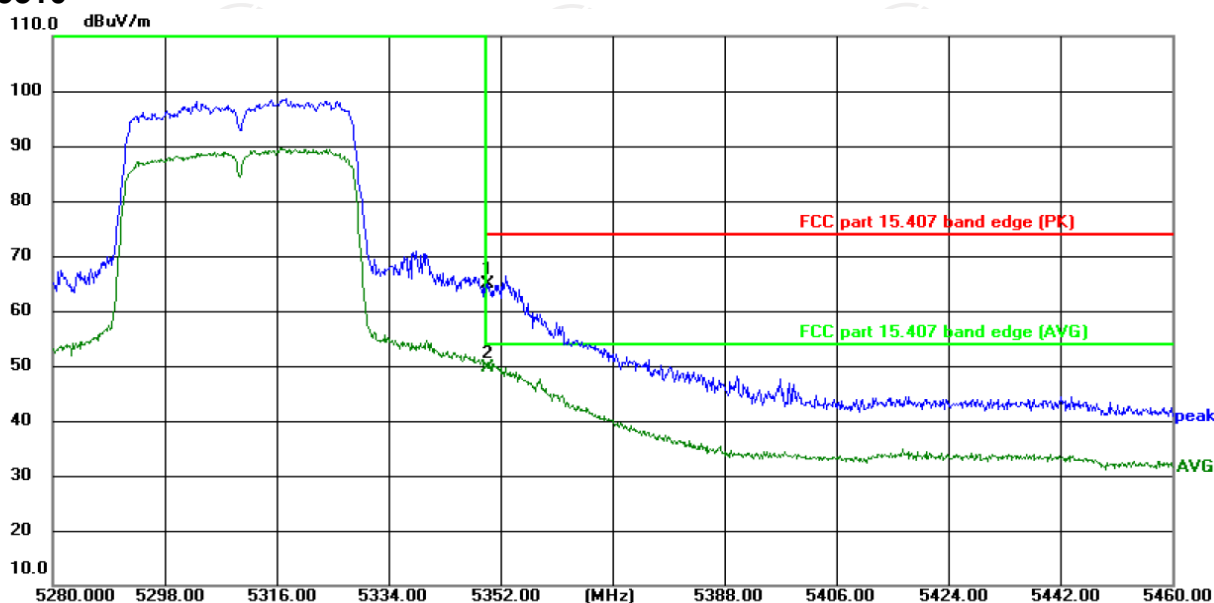
Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	59.97	-9.24	50.73	74.00	-23.27	peak	P	



## n40-5310



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

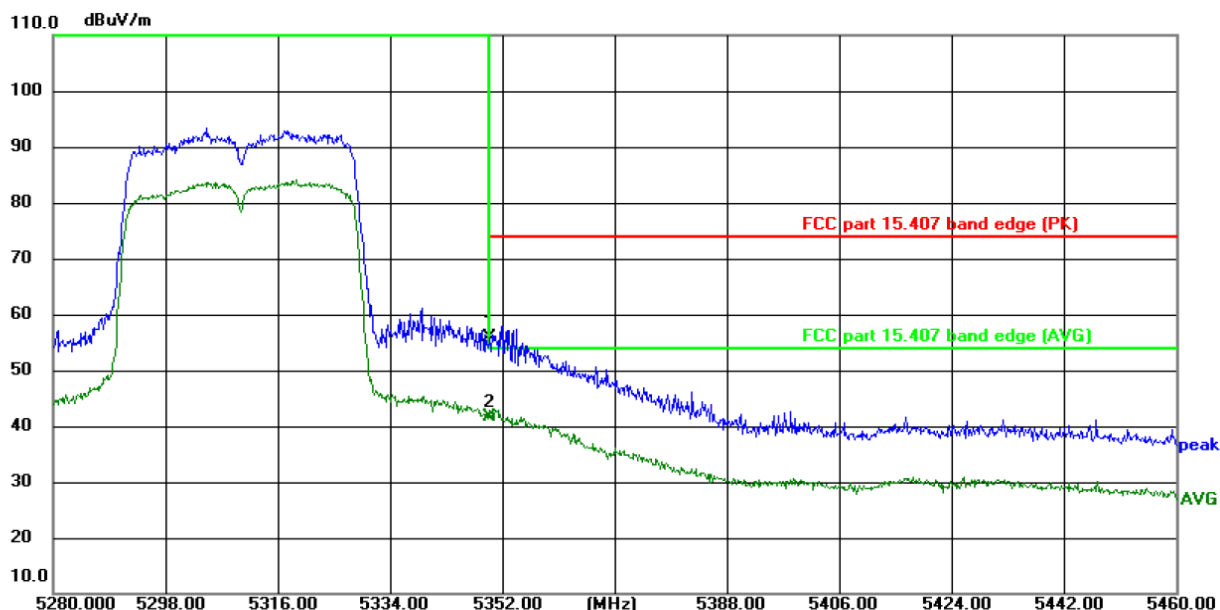
Temperature: 23.3(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	72.93	-8.15	64.78	74.00	-9.22	peak	P	
2 *	5350.000	57.75	-8.15	49.60	54.00	-4.40	AVG	P	



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.3(°C)

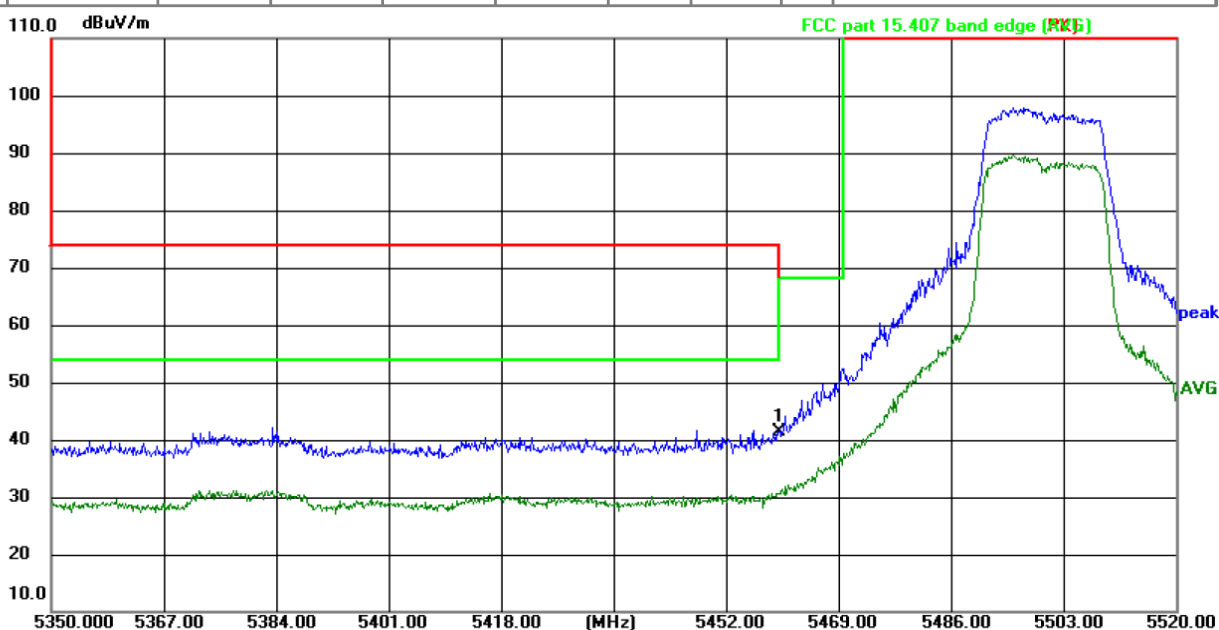
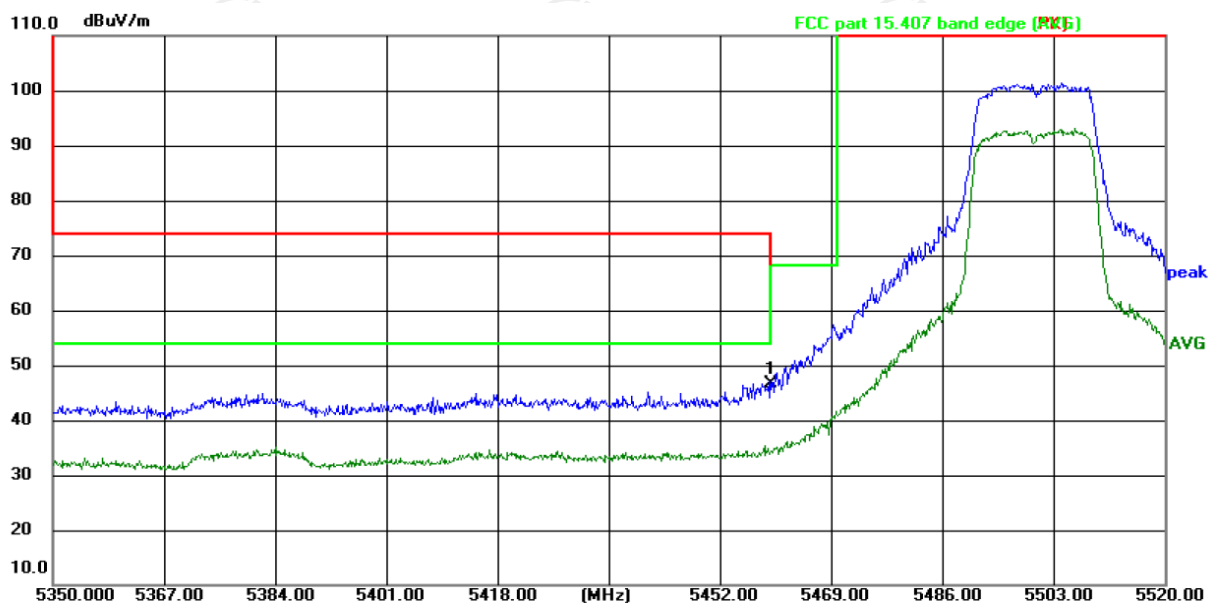
Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

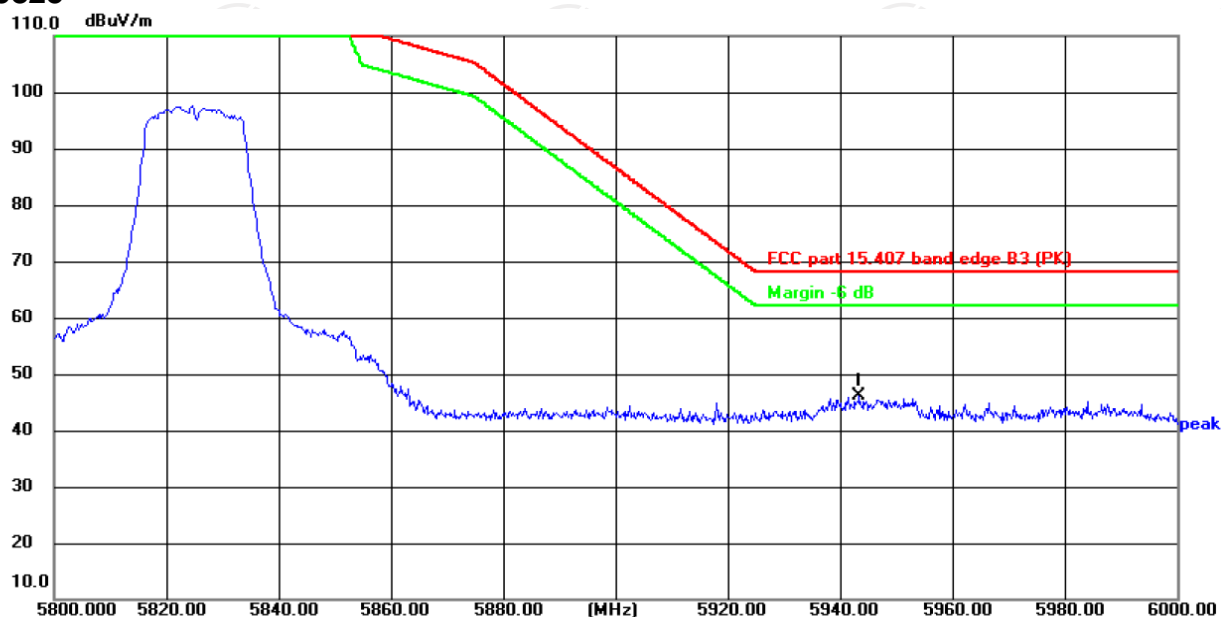
Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	64.06	-8.15	55.91	74.00	-18.09	peak	P	
2 *	5350.000	49.81	-8.15	41.66	54.00	-12.34	AVG	P	

## n20-5500



n20-5825



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

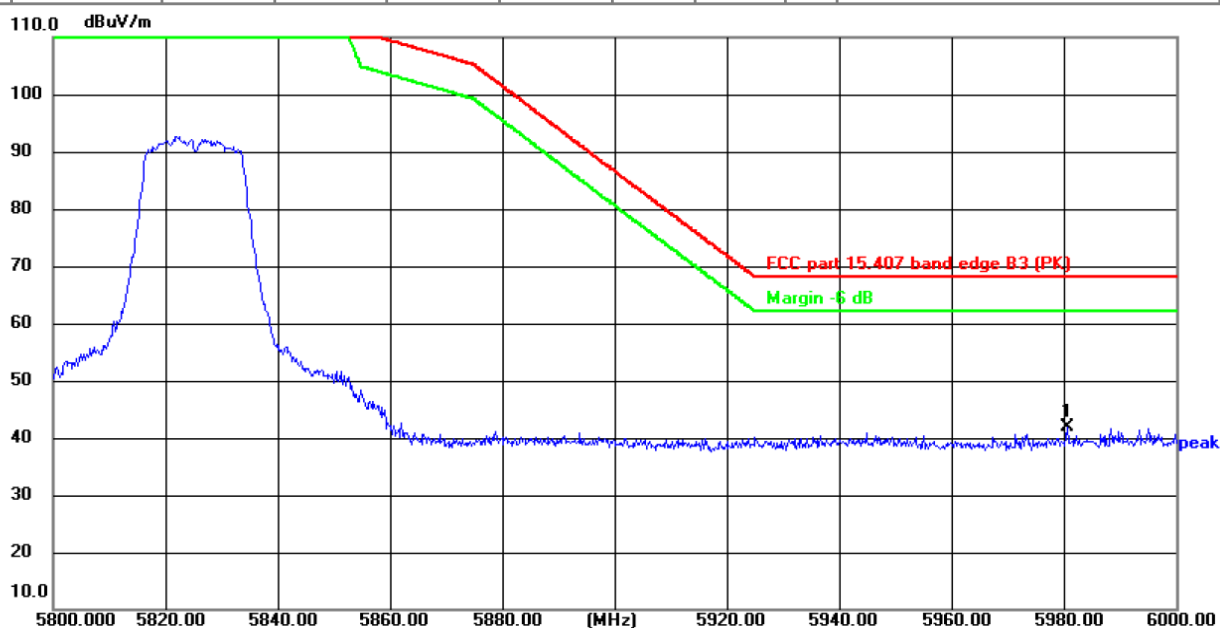
Temperature: 23.3(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5943.500	52.87	-6.81	46.06	68.20	-22.14	peak	P	



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.3(°C)

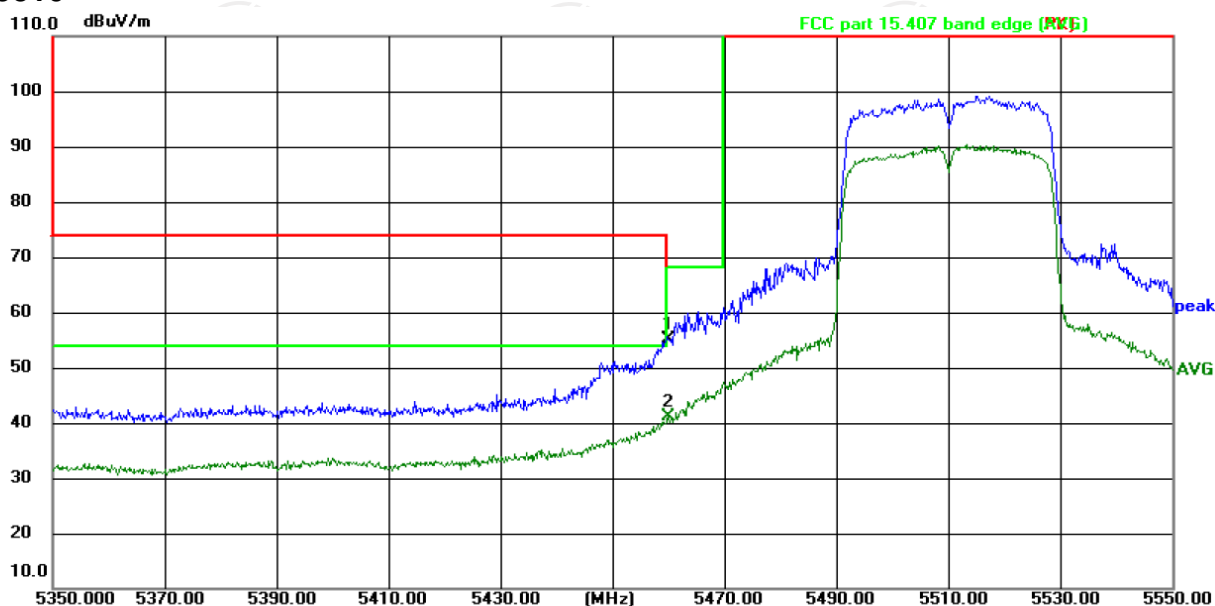
Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5980.740	48.38	-6.62	41.76	68.20	-26.44	peak	P	

## n40-5510



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

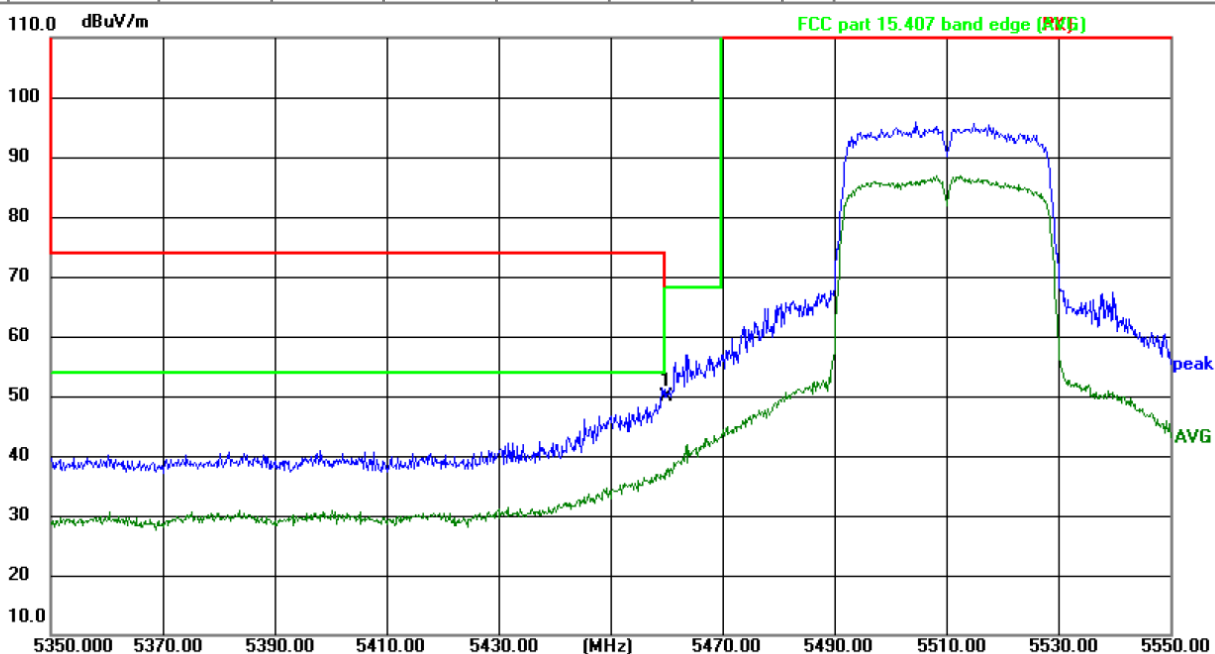
Temperature: 23.3(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	63.22	-8.20	55.02	68.20	-13.18	peak	P	
2 *	5460.000	49.26	-8.20	41.06	54.00	-12.94	AVG	P	



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.3(°C)

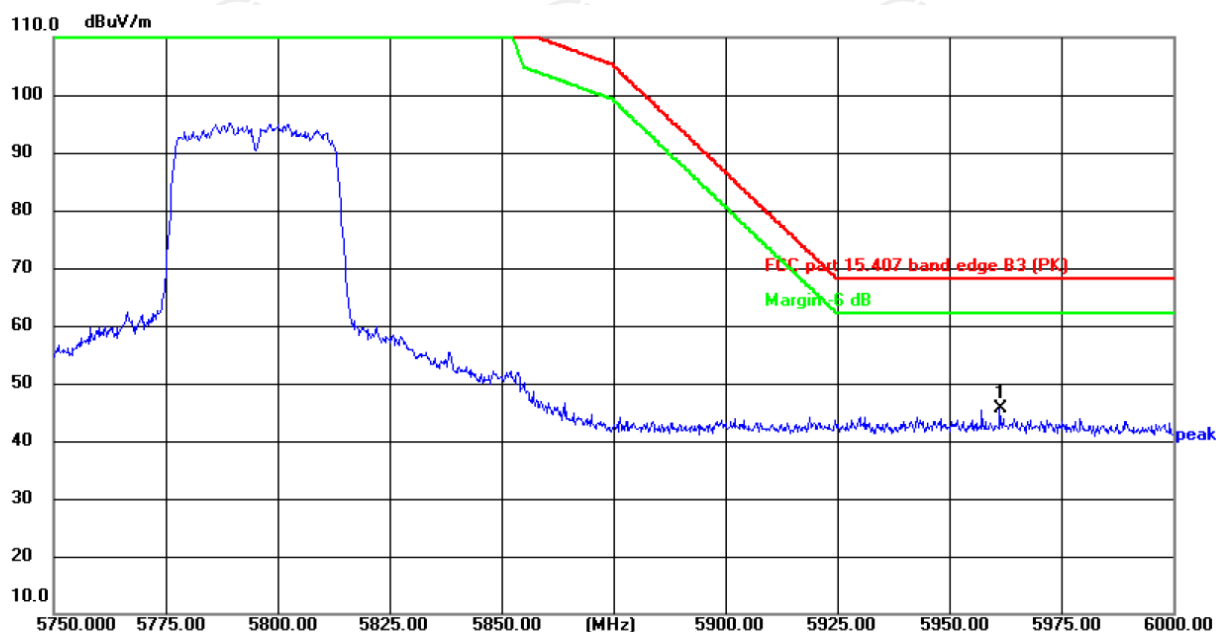
Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5460.000	58.08	-8.20	49.88	68.20	-18.32	peak	P	

## n40-5795



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

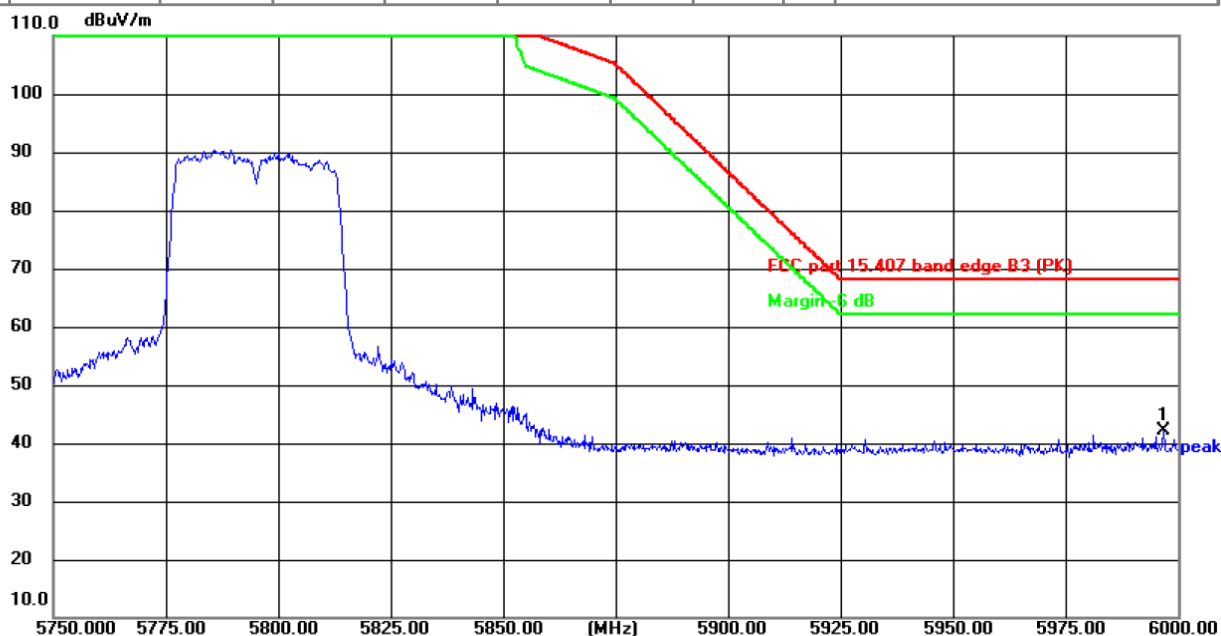
Temperature: 23.3(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5961.275	52.35	-6.73	45.62	68.20	-22.58	peak	P	



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.3(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

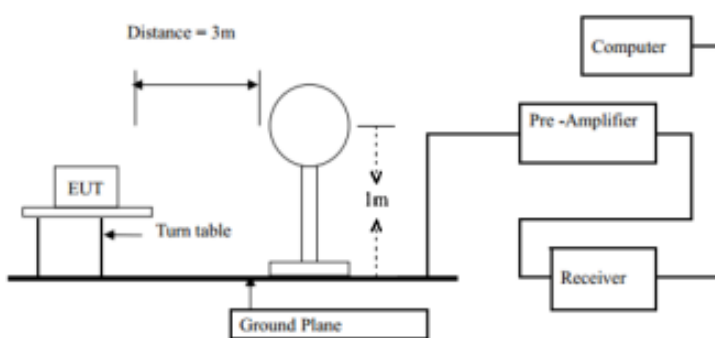
Power: AC 120 V/60 Hz

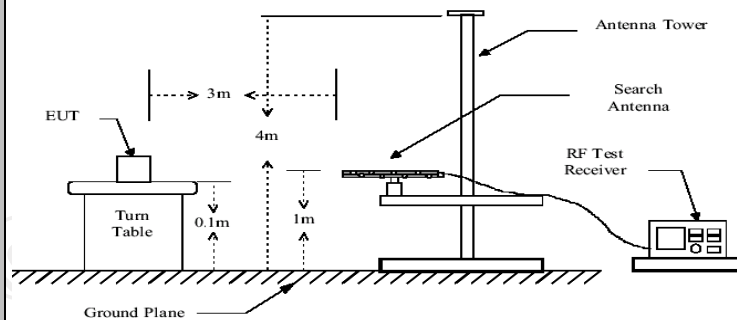
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5996.925	48.75	-6.51	42.24	68.20	-25.96	peak	P	

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

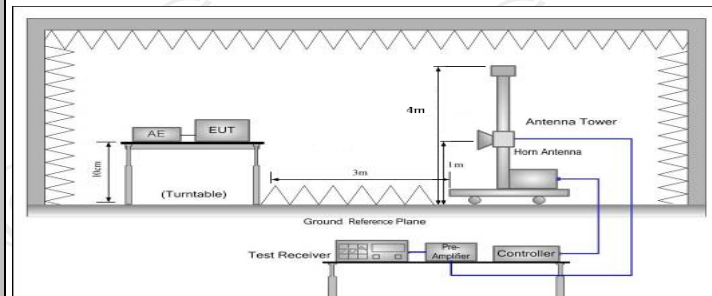
## 5.8. Unwanted Emissions

### 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		74dBµV/m
			AVG		54dBµV/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		
Test setup:	In un-restricted bands: 68.2dBuV/m				
	For radiated emissions below 30MHz				
Test setup:					
	30MHz to 1GHz				



Above 1GHz



#### Test Procedure:

1. The EUT was placed on the top of a rotating table 0.1 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 rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

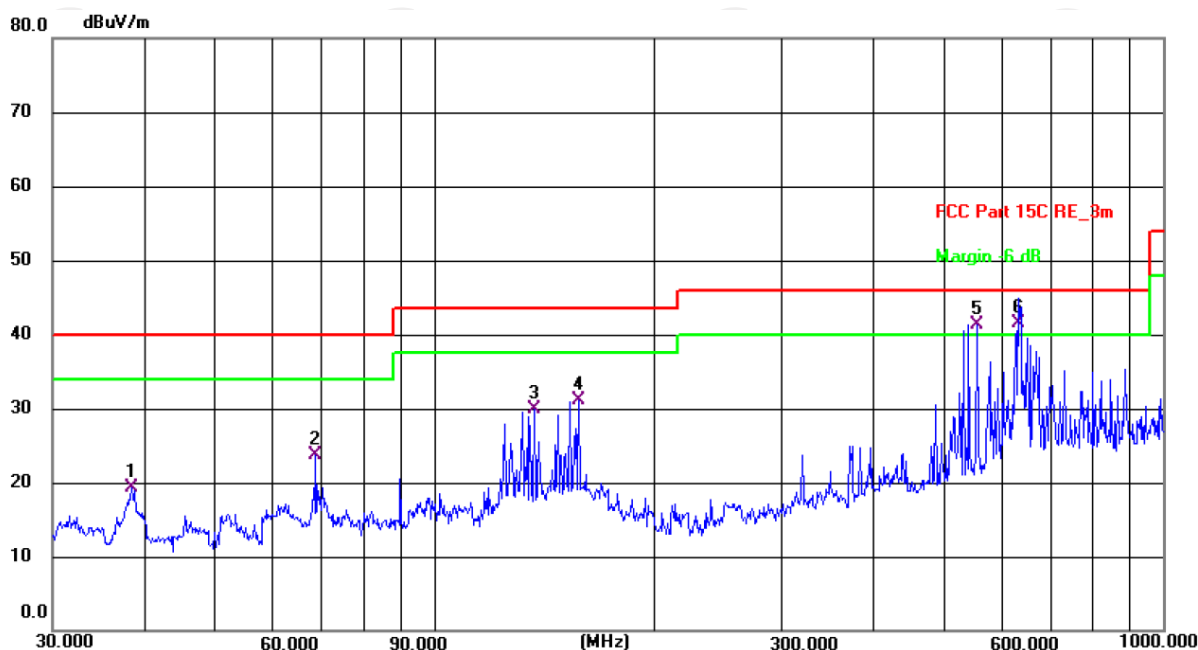
#### Test results:

PASS

## 5.8.2. Test Data

Please refer to following diagram for individual  
Below 1GHz

Horizontal:



Site 3m Anechoic Chamber

Polarization: **Horizontal**

Temperature: 24.1(C) Humidity: 52 %

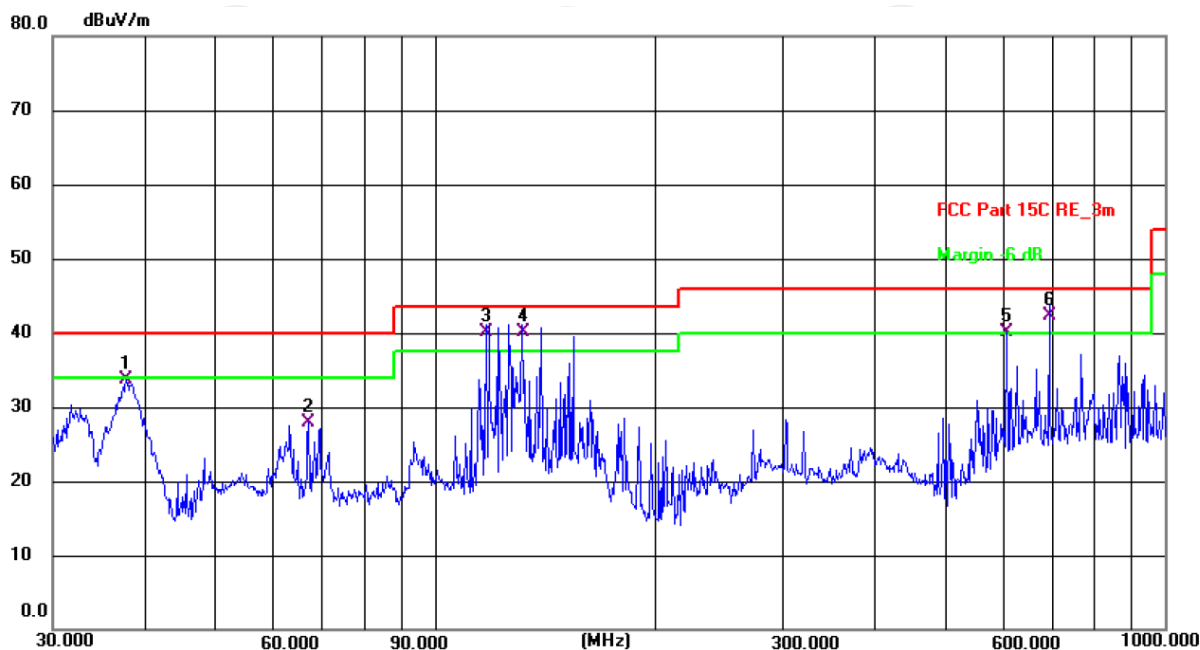
Limit: FCC Part 15C RE\_3m

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	38.4808	37.75	-18.43	19.32	40.00	-20.68	QP	P	
2	68.8721	43.86	-20.07	23.79	40.00	-16.21	QP	P	
3	137.4200	47.89	-17.89	30.00	43.50	-13.50	QP	P	
4	158.1123	48.02	-16.87	31.15	43.50	-12.35	QP	P	
5 !	556.7743	52.31	-10.96	41.35	46.00	-4.65	QP	P	
6 *	633.9071	50.14	-8.58	41.56	46.00	-4.44	QP	P	



Vertical:



Site 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 24.1(C) Humidity: 52 %

Limit: FCC Part 15C RE\_3m

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	37.8121	52.21	-18.57	33.64	40.00	-6.36	QP	P	
2	67.2021	47.65	-19.82	27.83	40.00	-12.17	QP	P	
3 *	117.7724	59.38	-19.27	40.11	43.50	-3.39	QP	P	
4 !	131.7574	58.18	-18.07	40.11	43.50	-3.39	QP	P	
5 !	607.7866	49.50	-9.38	40.12	46.00	-5.88	QP	P	
6 !	694.4174	50.06	-7.71	42.35	46.00	-3.65	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) and the worst case Mode (Highest 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	38.22	---	8.02	46.24	---	68.2	---	-21.96
15540	H	38.14	---	9.87	48.01	---	74	54	-5.99
---	H	---	---	---	---	---	---	---	---
10360	V	38.99	---	8.02	47.01	---	68.2	---	-21.19
15540	V	38.21	---	9.87	48.08	---	74	54	-5.92
---	V	---	---	---	---	---	---	---	---
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	39.89	---	7.97	47.86	---	68.2	---	-20.34
15600	H	38.75	---	9.83	48.58	---	74	54	-5.42
---	H	---	---	---	---	---	---	---	---
10400	V	40.32	---	7.97	48.29	---	68.2	---	-19.91
15600	V	38.49	---	9.83	48.32	---	74	54	-5.68
---	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	38.55	---	7.97	46.52	---	68.2	---	-21.68
15720	H	37.64	---	9.83	47.47	---	74	54	-6.53
---	H	---	---	---	---	---	---	---	---
10480	V	38.23	---	7.97	46.2	---	68.2	---	-22
15720	V	36.42	---	9.83	46.25	---	74	54	-7.75
---	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	41.99	---	8.02	50.01	---	68.2	---	-18.19
15540	H	37.14	---	9.87	47.01	---	74	54	-6.99
---	H	---	---	---	---	---	---	---	---
10360	V	42.16	---	8.02	50.18	---	68.2	---	-18.02
15540	V	37.25	---	9.87	47.12	---	74	54	-6.88
---	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	40.59	---	7.97	48.56	---	68.2	---	-19.64
15600	H	38.14	---	9.83	47.97	---	74	54	-6.03
---	H	---	---	---	---	---	---	---	---
10400	V	40.45	---	7.97	48.42	---	68.2	---	-19.78
15600	V	37.27	---	9.83	47.1	---	74	54	-6.9
---	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	41.88	---	7.97	49.85	---	68.2	---	-18.35
15720	H	39.14	---	9.83	48.97	---	74	54	-5.03
---	H	---	---	---	---	---	---	---	---
10480	V	40.51	---	7.97	48.48	---	68.2	---	-19.72
15720	V	39.23	---	9.83	49.06	---	74	54	-4.94
---	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	39.18	---	7.75	46.93	---	68.2	---	-21.27
15570	H	37.53	---	9.87	47.4	---	74	54	-6.6
---	H	---	---	---	---	---	---	---	---
10380	V	40.36	---	7.75	48.11	---	68.2	---	-20.09
15570	V	37.2	---	9.87	47.07	---	74	54	-6.93
---	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	41.66	---	7.97	49.63	---	68.2	---	-18.57
15690	H	38.14	---	9.83	47.97	---	74	54	-6.03
---	H	---	---	---	---	---	---	---	---
10460	V	41.55	---	7.97	49.52	---	68.2	---	-18.68
15690	V	38.39	---	9.83	48.22	---	74	54	-5.78
---	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	38.66	---	7.97	46.63	---	68.2	---	-21.57
15780	H	36.87	---	9.83	46.7	---	74	54	-7.3
---	H	---	---	---	---	---	---	---	---
10520	V	41.09	---	7.97	49.06	---	68.2	---	-19.14
15780	V	38.38	---	9.83	48.21	---	74	54	-5.79
---	V	---	---	---	---	---	---	---	---
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	38.59	---	7.98	46.57	---	74	54	-7.43
15900	H	38.32	---	9.85	48.17	---	74	54	-5.83
---	H	---	---	---	---	---	---	---	---
10600	V	39.65	---	7.98	47.63	---	74	54	-6.37
15900	V	37.74	---	9.85	47.59	---	74	54	-6.41
---	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	40.99	---	7.98	48.97	---	74	54	-5.03
15960	H	37.18	---	9.85	47.03	---	74	54	-6.97
---	H	---	---	---	---	---	---	---	---
10640	V	39.04	---	7.98	47.02	---	74	54	-6.98
15960	V	35.23	---	9.85	45.08	---	74	54	-8.92
---	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	41.1	---	7.97	49.07	---	68.2	---	-19.13
15780	H	38.96	---	9.83	48.79	---	74	54	-5.21
---	H	---	---	---	---	---	---	---	---
10520	V	38.77	---	7.97	46.74	---	68.2	---	-21.46
15780	V	35.35	---	9.83	45.18	---	74	54	-8.82
---	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	38.26	---	7.98	46.24	---	74	54	-7.76
15900	H	37.21	---	9.85	47.06	---	74	54	-6.94
---	H	---	---	---	---	---	---	---	---
10600	V	40.58	---	7.98	48.56	---	74	54	-5.44
15900	V	39.69	---	9.85	49.54	---	74	54	-4.46
---	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	37.13	---	7.98	45.11	---	74	54	-8.89
15960	H	35.98	---	9.85	45.83	---	74	54	-8.17
---	H	---	---	---	---	---	---	---	---
10640	V	39.56	---	7.98	47.54	---	74	54	-6.46
15960	V	39.71	---	9.85	49.56	---	74	54	-4.44
---	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	37.85	---	7.97	45.82	---	68.2	---	-22.38
15810	H	37.21	---	9.83	47.04	---	74	54	-6.96
---	H	---	---	---	---	---	---	---	---
10540	V	38.66	---	7.97	46.63	---	68.2	---	-21.57
15810	V	36.44	---	9.83	46.27	---	74	54	-7.73
---	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	40.41	---	7.98	48.39	---	74	54	-5.61
15930	H	38.05	---	9.85	47.9	---	74	54	-6.1
---	H	---	---	---	---	---	---	---	---
10620	V	38.69	---	7.98	46.67	---	74	54	-7.33
15930	V	36.57	---	9.85	46.42	---	74	54	-7.58
---	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 2C									
11a CH100: 5500MHz									
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)			
11000	H	39.65	---	8.03	47.68	---	74	54	-6.32
16500	H	39.14	---	9.76	48.9	---	68.2	---	-19.3
---	H	---	---	---	---	---	---	---	---
11000	V	40.21	---	8.03	48.24	---	74	54	-5.76
16500	V	40.87	---	9.76	50.63	---	68.2	---	-17.57
---	V	---	---	---	---	---	---	---	---
11a CH120: 5600MHz									
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)			
11200	H	40.02	---	8.04	48.06	---	74	54	-5.94
16800	H	40.17	---	9.74	49.91	---	68.2	---	-18.29
---	H	---	---	---	---	---	---	---	---
11200	V	38.66	---	8.04	46.7	---	74	54	-7.3
16800	V	39.88	---	9.74	49.62	---	68.2	---	-18.58
---	V	---	---	---	---	---	---	---	---
11a CH140: 5700MHz									
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)			
11400	H	38.13	---	8.05	46.18	---	74	54	-7.82
17100	H	40.31	---	9.72	50.03	---	68.2	---	-18.17
---	H	---	---	---	---	---	---	---	---
11400	V	38.68	---	8.05	46.73	---	74	54	-7.27
17100	V	40.11	---	9.72	49.83	---	68.2	---	-18.37
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH100: 5500MHz									
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)			
11000	H	40.23	---	8.03	48.26	---	74	54	-5.74
16500	H	34.52	---	9.76	44.28	---	68.2	---	-23.92
---	H	---	---	---	---	---	---	---	---
11000	V	38.15	---	8.03	46.18	---	74	54	-7.82
16500	V	37.66	---	9.76	47.42	---	68.2	---	-20.78
---	V	---	---	---	---	---	---	---	---



## 11n(HT20) CH120: 5600MHz

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)			
11200	H	39.1	---	8.04	47.14	---	74	54	-6.86
16800	H	40.58	---	9.74	50.32	---	68.2	---	-17.88
---	H	---	---	---	---	---	---	---	---
11200	V	39.51	---	8.04	47.55	---	74	54	-6.45
16800	V	39.42	---	9.74	49.16	---	68.2	---	-19.04
---	V	---	---	---	---	---	---	---	---

## 11n(HT20) CH140: 5700MHz

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)			
11400	H	39.46	---	8.05	47.51	---	74	54	-6.49
17100	H	40.31	---	9.72	50.03	---	68.2	---	-18.17
---	H	---	---	---	---	---	---	---	---
11400	V	38.89	---	8.05	46.94	---	74	54	-7.06
17100	V	39.91	---	9.72	49.63	---	68.2	---	-18.57
---	V	---	---	---	---	---	---	---	---

## 11n(HT40) CH102: 5510MHz

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)			
11020	H	39.82	---	8.03	47.85	---	74	54	-6.15
16530	H	39.19	---	9.76	48.95	---	68.2	---	-19.25
---	H	---	---	---	---	---	---	---	---
11020	V	39.91	---	8.03	47.94	---	74	54	-6.06
16530	V	37.09	---	9.76	46.85	---	68.2	---	-21.35
---	V	---	---	---	---	---	---	---	---

## 11n(HT40) CH118: 5590MHz

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)			
11180	H	39.81	---	8.04	47.85	---	74	54	-6.15
16770	H	39.72	---	9.74	49.46	---	68.2	---	-18.74
---	H	---	---	---	---	---	---	---	---
11180	V	37.29	---	8.04	45.33	---	74	54	-8.67
16770	V	41.14	---	9.74	50.88	---	68.2	---	-17.32
---	V	---	---	---	---	---	---	---	---

11n(HT40) CH134: 5670MHz									
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)			
11340	H	40.63	---	8.05	48.68	---	74	54	-5.32
17010	H	40.11	---	9.72	49.83	---	68.2	---	-18.37
---	H	---	---	---	---	---	---	---	---
11340	V	39.22	---	8.05	47.27	---	74	54	-6.73
17010	V	38.06	---	9.72	47.78	---	68.2	---	-20.42
---	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 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	37.14	---	8.09	45.23	---	74	54	-8.77
17235	H	37.43	---	9.67	47.1	---	68.2	---	-21.1
---	H	---	---	---	---	---	---	---	---
11490	V	40.55	---	8.09	48.64	---	74	54	-5.36
17235	V	38.79	---	9.67	48.46	---	68.2	---	-19.74
---	V	---	---	---	---	---	---	---	---
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	39.01	---	8.10	47.11	---	74	54	-6.89
17355	H	38.83	---	9.65	48.48	---	68.2	---	-19.72
---	H	---	---	---	---	---	---	---	---
11570	V	38.87	---	8.10	46.97	---	74	54	-7.03
17355	V	39.65	---	9.65	49.3	---	68.2	---	-18.9
---	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	37.54	---	8.12	45.66	---	74	54	-8.34
17475	H	36.19	---	9.62	45.81	---	68.2	---	-22.39
---	H	---	---	---	---	---	---	---	---
11650	V	38.48	---	8.12	46.6	---	74	54	-7.4
17475	V	38.55	---	9.62	48.17	---	68.2	---	-20.03
---	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	38.28	---	8.09	46.37	---	74	54	-7.63
17235	H	38.16	---	9.67	47.83	---	68.2	---	-20.37
---	H	---	---	---	---	---	---	---	---
11490	V	39.24	---	8.09	47.33	---	74	54	-6.67
17235	V	37.68	---	9.67	47.35	---	68.2	---	-20.85
---	V	---	---	---	---	---	---	---	---

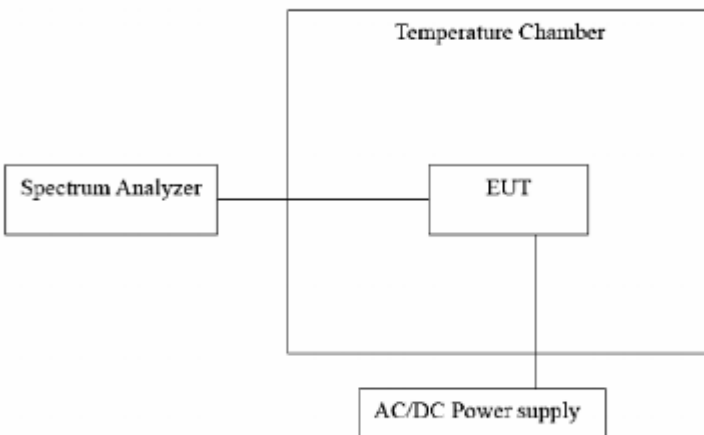
11n(HT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	38.69	---	8.10	46.79	---	74	54	-7.21
17355	H	39.77	---	9.65	49.42	---	68.2	---	-18.78
---	H	---	---	---	---	---	---	---	---
11570	V	38.25	---	8.10	46.35	---	74	54	-7.65
17355	V	39.94	---	9.65	49.59	---	68.2	---	-18.61
---	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	38.25	---	8.12	46.37	---	74	54	-7.63
17475	H	37.44	---	9.62	47.06	---	68.2	---	-21.14
---	H	---	---	---	---	---	---	---	---
11650	V	38.17	---	8.12	46.29	---	74	54	-7.71
17475	V	39.03	---	9.62	48.65	---	68.2	---	-19.55
---	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	40.69	---	8.09	48.78	---	74	54	-5.22
17265	H	37.03	---	9.67	46.7	---	68.2	---	-21.5
---	H	---	---	---	---	---	---	---	---
11510	V	41.95	---	8.09	50.04	---	74	54	-3.96
17265	V	38.54	---	9.67	48.21	---	68.2	---	-19.99
---	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	38.98	---	8.10	47.08	---	74	54	-6.92
17385	H	38.54	---	9.65	48.19	---	68.2	---	-20.01
---	H	---	---	---	---	---	---	---	---
11590	V	38.71	---	8.10	46.81	---	74	54	-7.19
17385	V	37.02	---	9.65	46.67	---	68.2	---	-21.53
---	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.*

## 5.9. Frequency Stability Measurement

### 5.9.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
<b>Test Method:</b>	ANSI C63.10: 2013
<b>Limit:</b>	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.
<b>Test Setup:</b>	 <pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]     subgraph TC [Temperature Chamber]         EUT     end     P[AC/DC Power supply] --- EUT             </pre>
<b>Test Procedure:</b>	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.
<b>Test Result:</b>	PASS
<b>Remark:</b>	Pre-scan was performed at all models(11a,11n), the worst case (11n) was found and test data was shown in this report.

Test plots as follows:

Test mode:		802.11n(HT20)	Frequency(MHz):	5180
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5180.16	160000	PASS
35		5180.16	160000	PASS
25		5180.16	160000	PASS
15		5180.16	160000	PASS
5		5180.16	160000	PASS
0		5180.16	160000	PASS
25	102V	5180.16	160000	PASS
	120V	5180.16	160000	PASS
	138V	5180.16	160000	PASS

Test mode:		802.11n(HT20)	Frequency(MHz):	5200
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5200.16	160000	PASS
35		5200.16	160000	PASS
25		5200.16	160000	PASS
15		5200.16	160000	PASS
5		5200.16	160000	PASS
0		5200.16	160000	PASS
25	102V	5200.16	160000	PASS
	120V	5200.16	160000	PASS
	138V	5200.16	160000	PASS

Test mode:		802.11n(HT20)	Frequency(MHz):	5240
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5240.16	160000	PASS
35		5240.16	160000	PASS
25		5240.16	160000	PASS
15		5240.16	160000	PASS
5		5240.16	160000	PASS
0		5240.16	160000	PASS
25	102V	5240.16	160000	PASS
	120V	5240.16	160000	PASS
	138V	5240.16	160000	PASS

Test mode:		802.11n(HT20)	Frequency(MHz):	5745
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5745.16	160000	PASS
35		5745.16	160000	PASS
25		5745.16	160000	PASS
15		5745.16	160000	PASS
5		5745.16	160000	PASS
0		5745.16	160000	PASS
25	102V	5745.14	140000	PASS
	120V	5745.16	160000	PASS
	138V	5745.16	160000	PASS

Test mode:		802.11n(HT20)	Frequency(MHz):	5785
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5785.16	160000	PASS
35		5785.16	160000	PASS
25		5785.16	160000	PASS
15		5785.16	160000	PASS
5		5785.16	160000	PASS
0		5785.16	160000	PASS
25	102V	5785.16	160000	PASS
	120V	5785.16	160000	PASS
	138V	5785.16	160000	PASS

Test mode:		802.11n(HT20)	Frequency(MHz):	5825
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5825.16	160000	PASS
35		5825.16	160000	PASS
25		5825.16	160000	PASS
15		5825.16	160000	PASS
5		5825.16	160000	PASS
0		5825.18	180000	PASS
25	102V	5825.16	160000	PASS
	120V	5825.16	160000	PASS
	138V	5825.16	160000	PASS



Test mode:		802.11n(HT40)	Frequency(MHz):	5190
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5190.16	160000	PASS
35		5190.16	160000	PASS
25		5190.16	160000	PASS
15		5190.16	160000	PASS
5		5190.16	160000	PASS
0		5190.16	160000	PASS
25	102V	5190.16	160000	PASS
	120V	5190.16	160000	PASS
	138V	5190.16	160000	PASS

Test mode:		802.11n(HT40)	Frequency(MHz):	5230
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5230.16	160000	PASS
35		5230.16	160000	PASS
25		5230.16	160000	PASS
15		5230.16	160000	PASS
5		5230.12	120000	PASS
0		5230.12	120000	PASS
25	102V	5230.16	160000	PASS
	120V	5230.12	120000	PASS
	138V	5230.12	120000	PASS

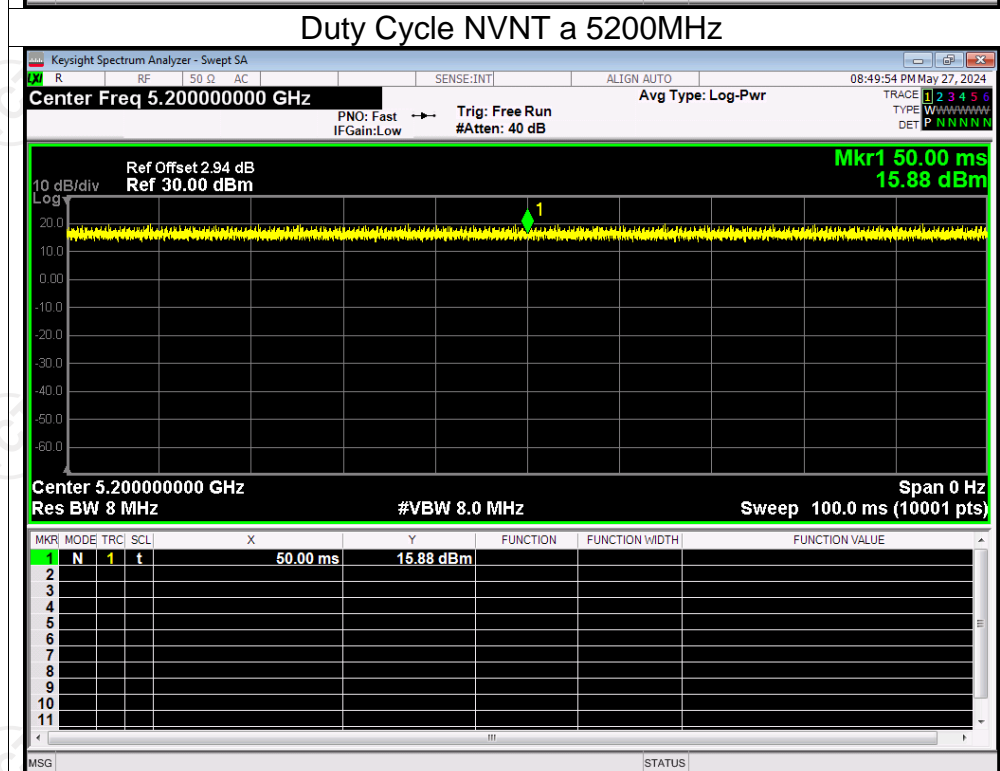
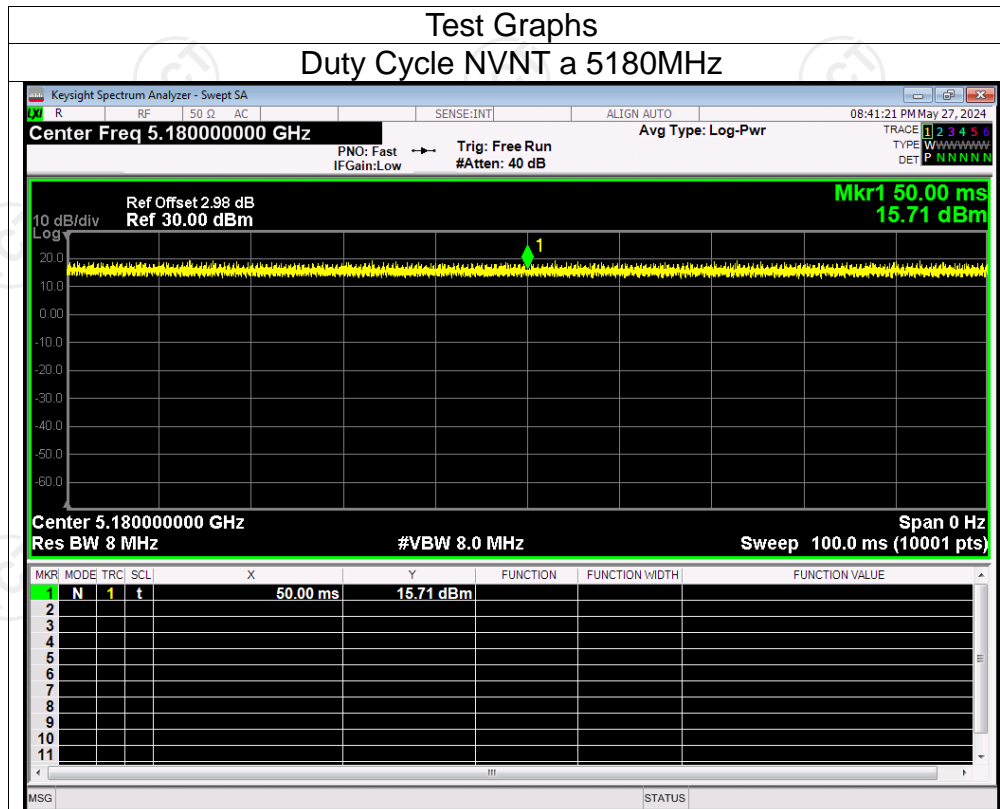
Test mode:		802.11n(HT40)	Frequency(MHz):	5755
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5755.16	160000	PASS
35		5755.16	160000	PASS
25		5755.16	160000	PASS
15		5755.20	200000	PASS
5		5755.16	160000	PASS
0		5755.16	160000	PASS
25	102V	5755.16	160000	PASS
	120V	5755.16	160000	PASS
	138V	5755.16	160000	PASS

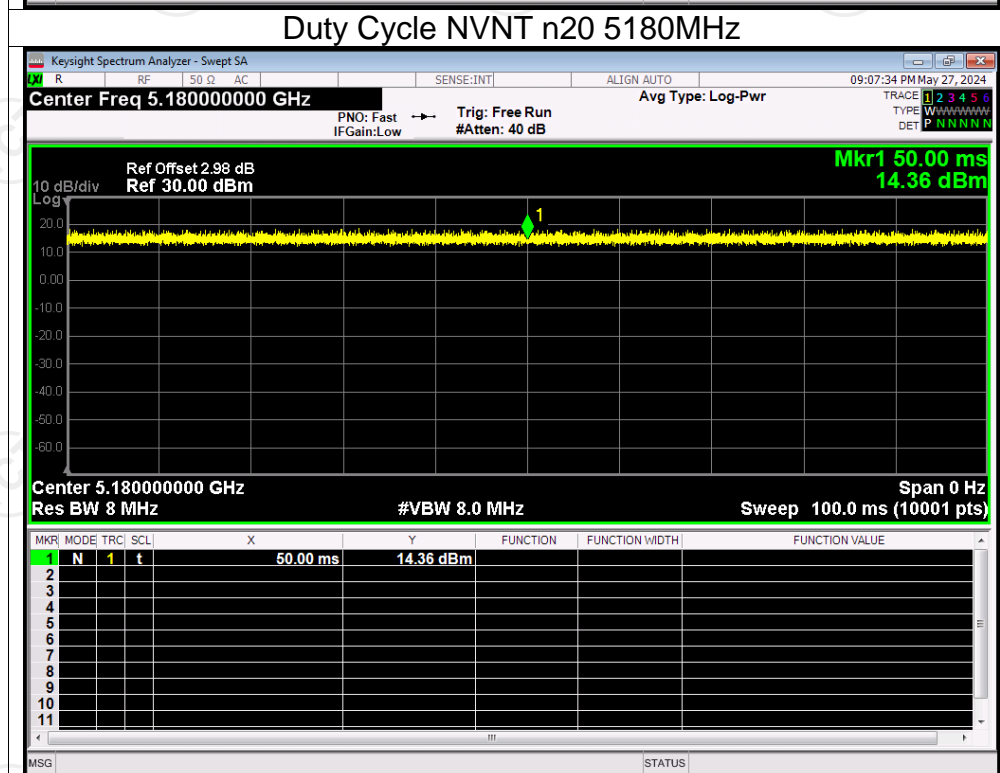
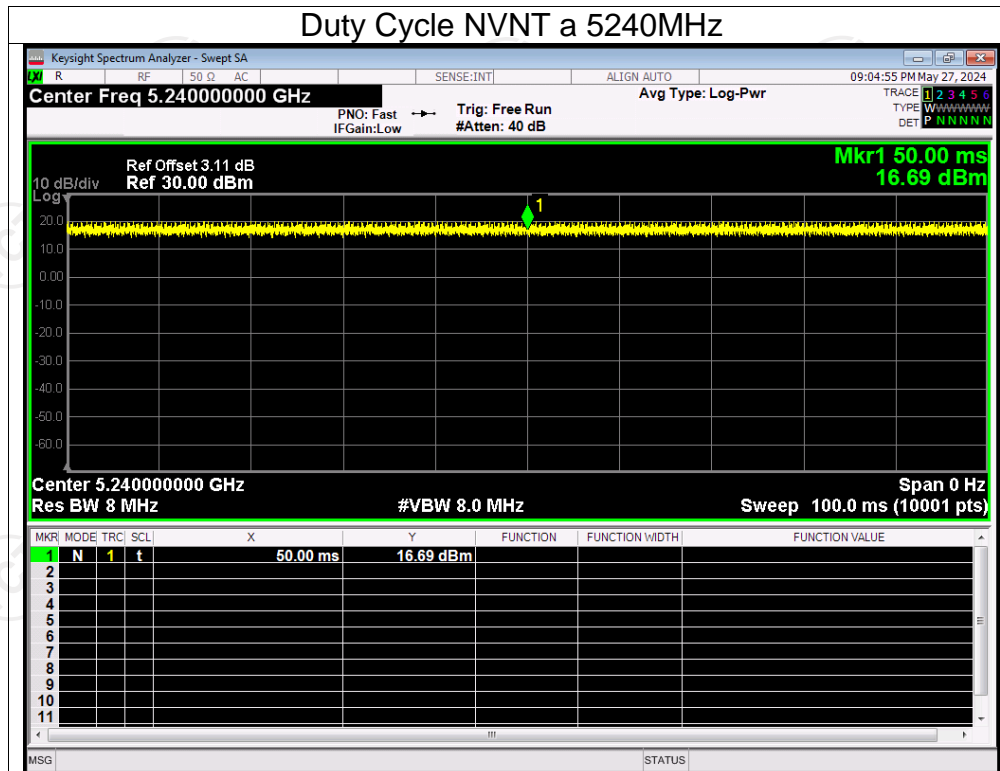
Test mode:		802.11n(HT40)	Frequency(MHz):	5795
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120V	5795.16	160000	PASS
35		5795.16	160000	PASS
25		5795.16	160000	PASS
15		5795.16	160000	PASS
5		5795.16	160000	PASS
0		5795.16	160000	PASS
25	102V	5795.16	160000	PASS
	120V	5795.16	160000	PASS
	138V	5795.2	200000	PASS

## Appendix A: Test Result of Conducted Test

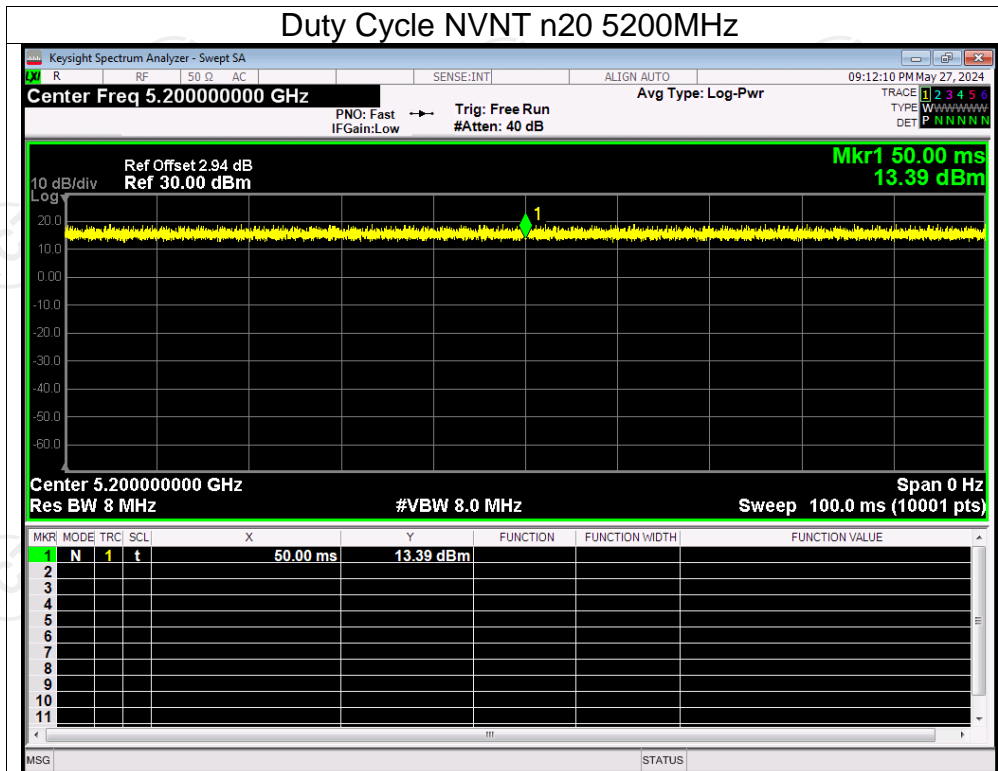
### Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)
NVNT	a	5180	100
NVNT	a	5200	100
NVNT	a	5240	100
NVNT	n20	5180	100
NVNT	n20	5200	100
NVNT	n20	5240	100
NVNT	n40	5190	100
NVNT	n40	5230	100
NVNT	a	5260	100
NVNT	a	5300	100
NVNT	a	5320	100
NVNT	n20	5260	100
NVNT	n20	5300	100
NVNT	n20	5320	100
NVNT	n40	5270	100
NVNT	n40	5310	100
NVNT	a	5500	100
NVNT	a	5580	100
NVNT	a	5600	100
NVNT	a	5700	100
NVNT	n20	5500	100
NVNT	n20	5580	100
NVNT	n20	5600	100
NVNT	n20	5700	100
NVNT	n40	5510	100
NVNT	n40	5590	100
NVNT	n40	5670	100
NVNT	a	5745	100
NVNT	a	5785	100
NVNT	a	5825	100
NVNT	n20	5745	100
NVNT	n20	5785	100
NVNT	n20	5825	100
NVNT	n40	5755	100
NVNT	n40	5795	100

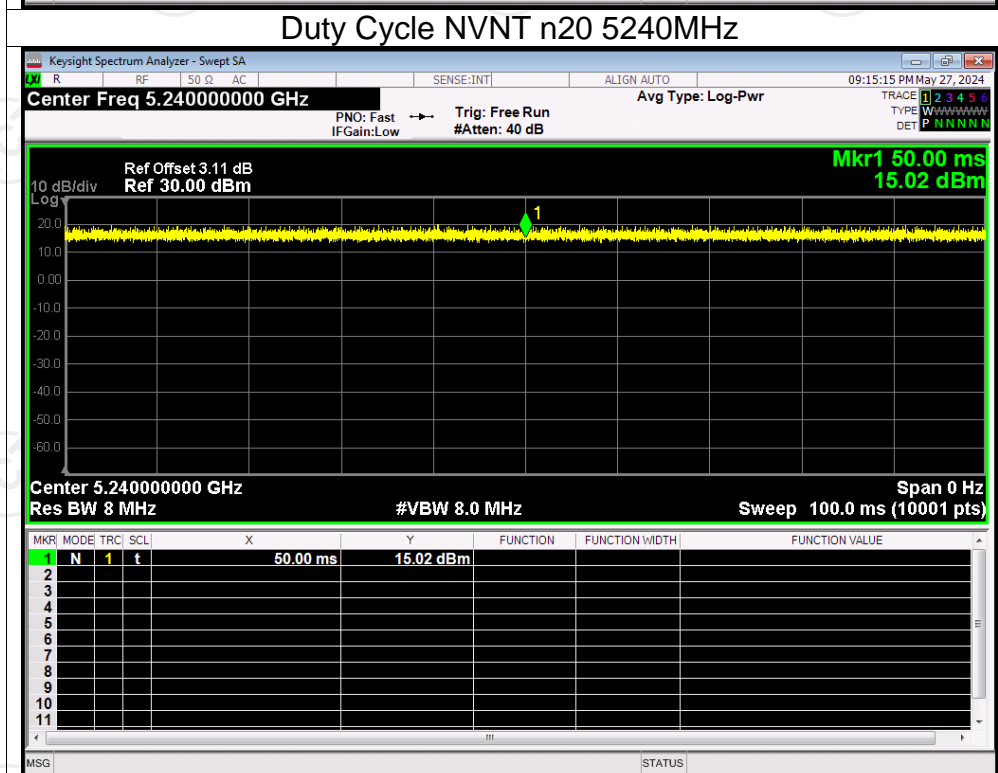


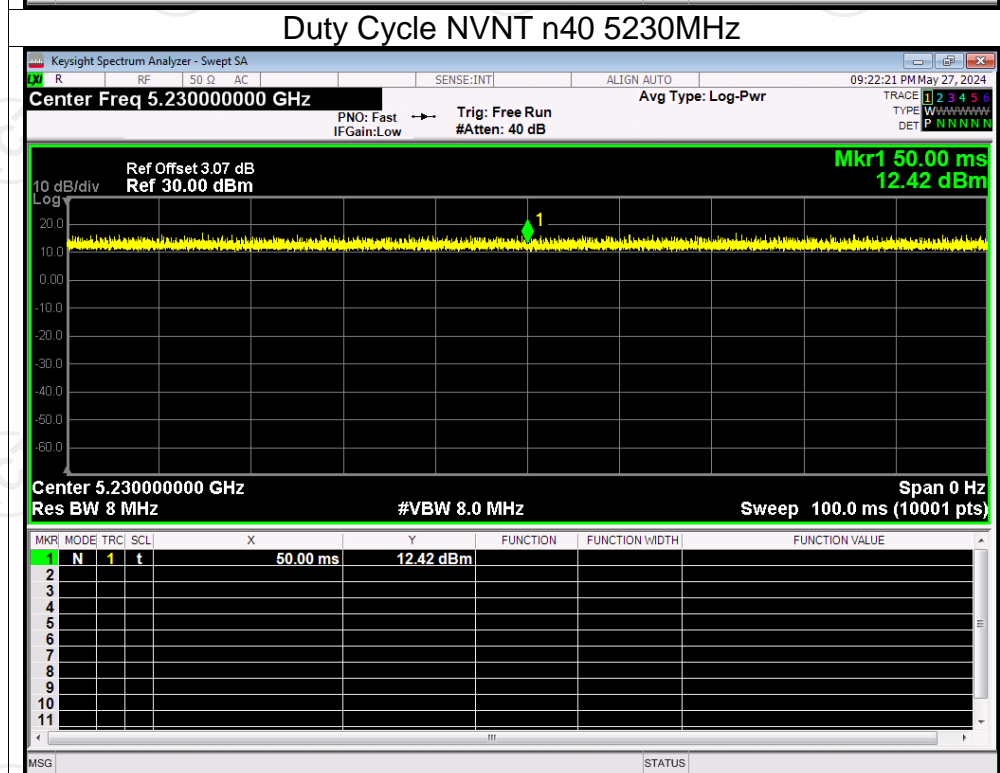
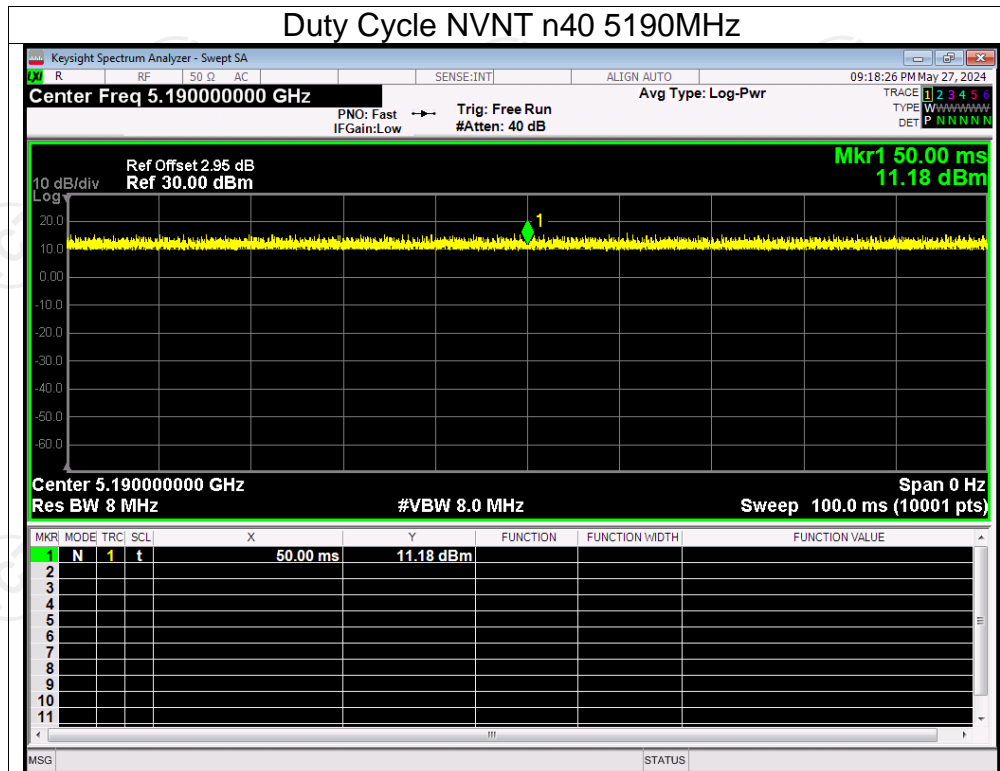


## Duty Cycle NVNT n20 5200MHz



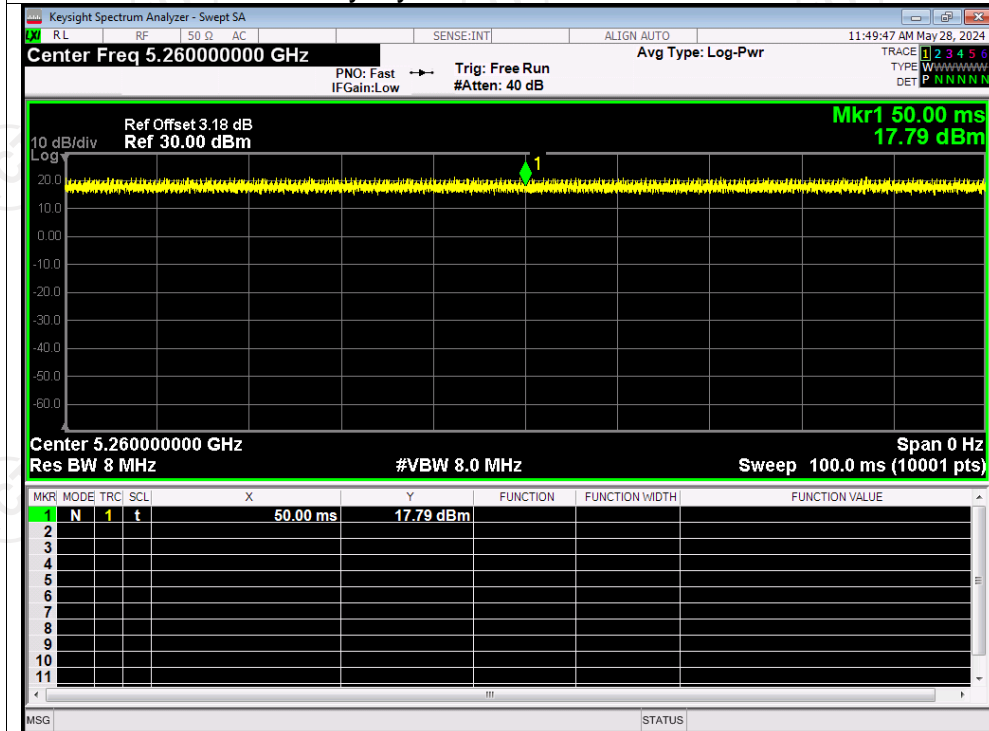
## Duty Cycle NVNT n20 5240MHz



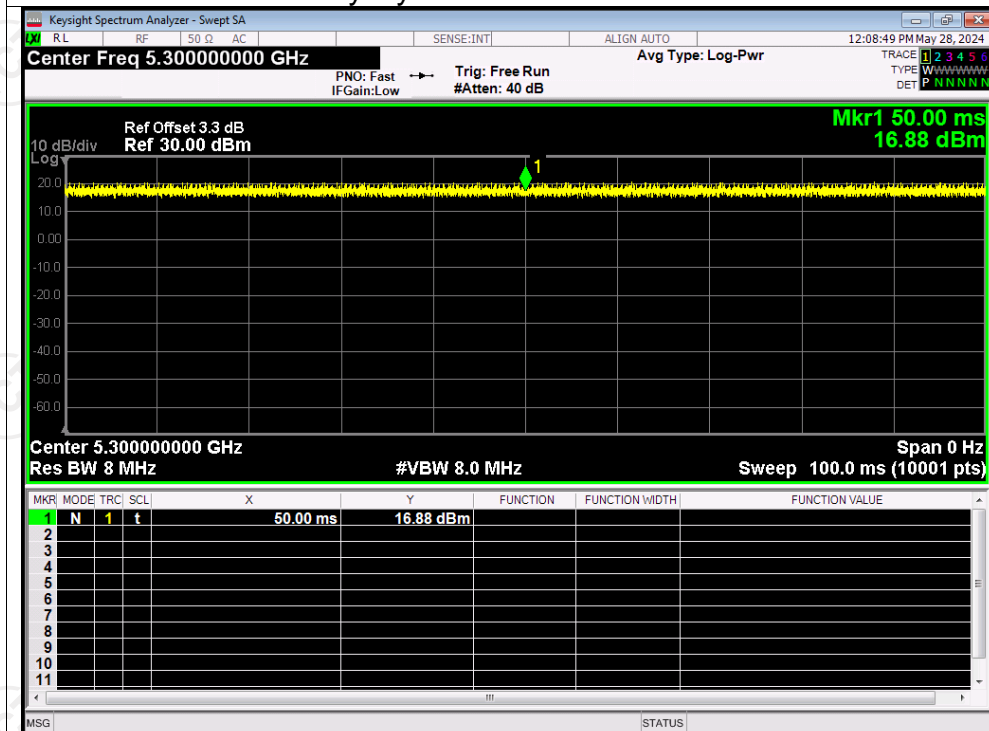


## Test Graphs

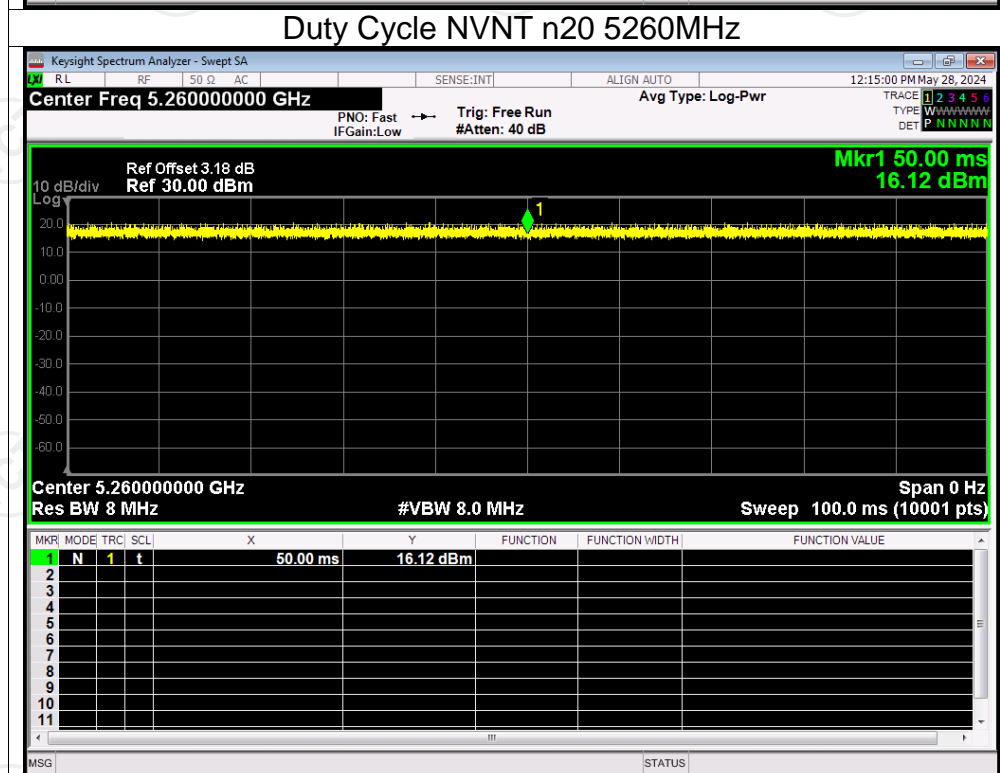
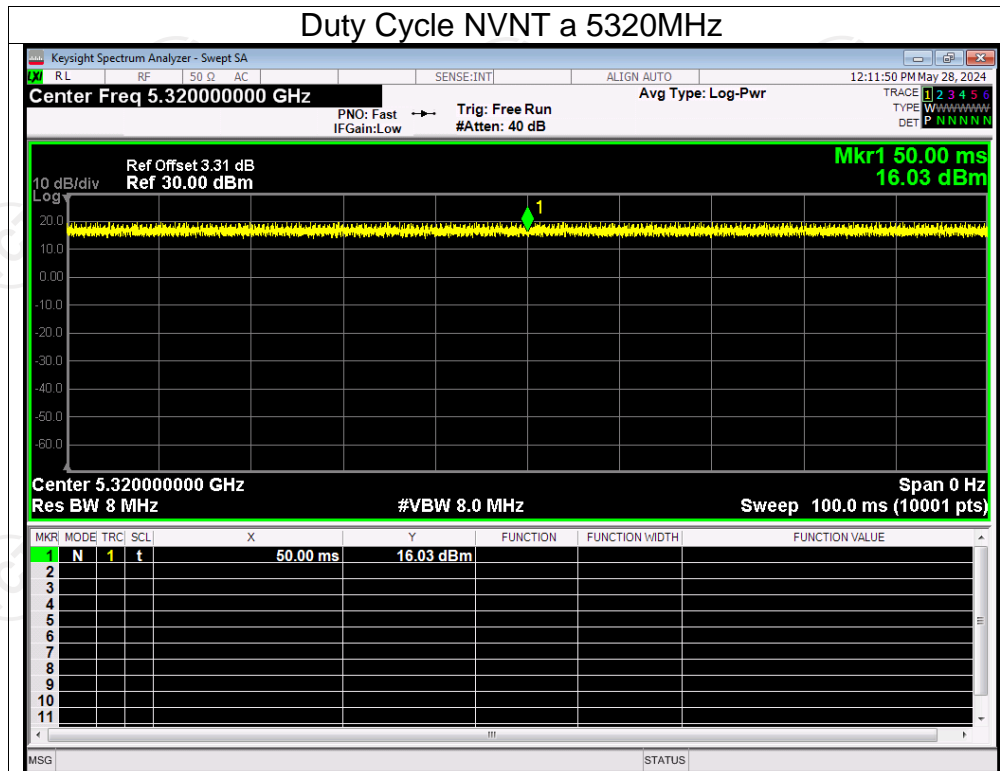
### Duty Cycle NVNT a 5260MHz



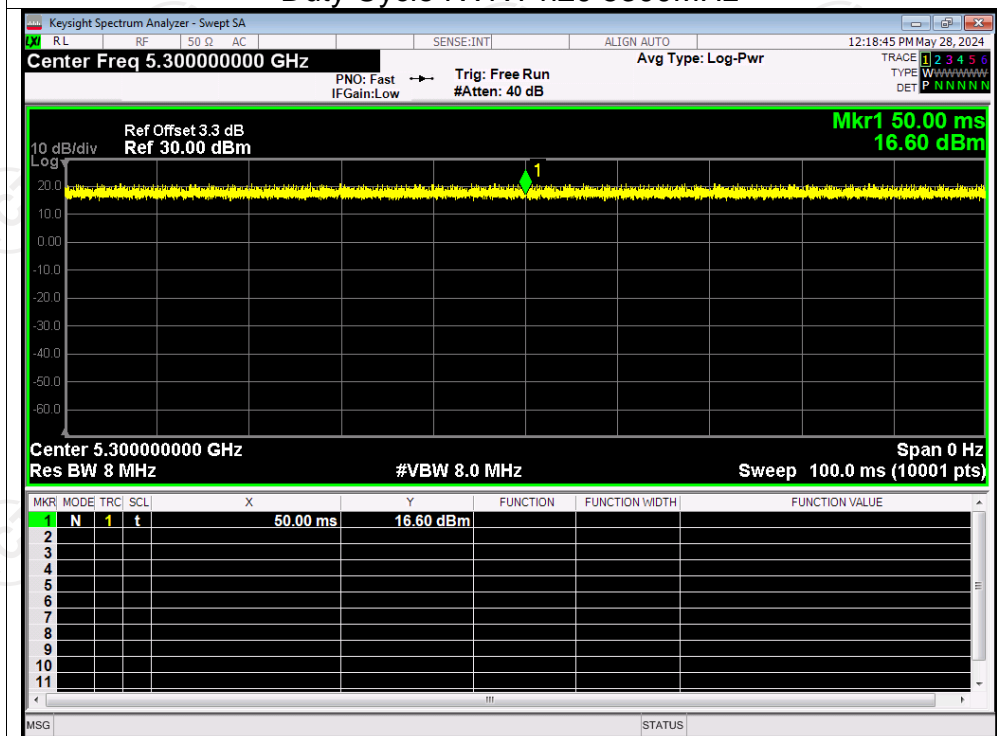
### Duty Cycle NVNT a 5300MHz



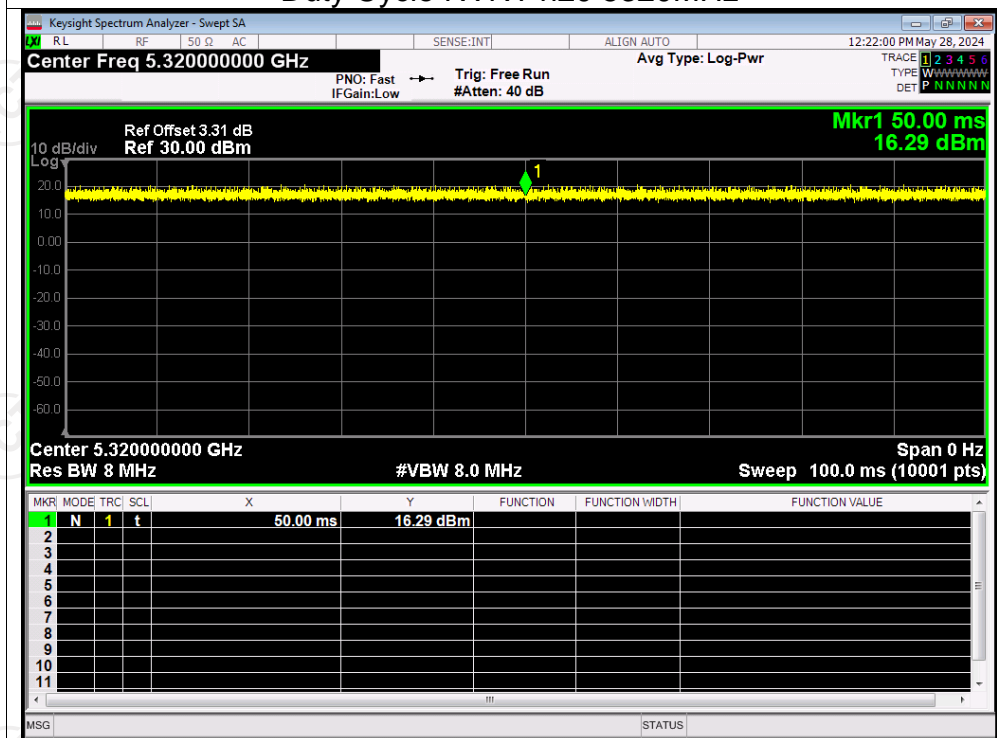


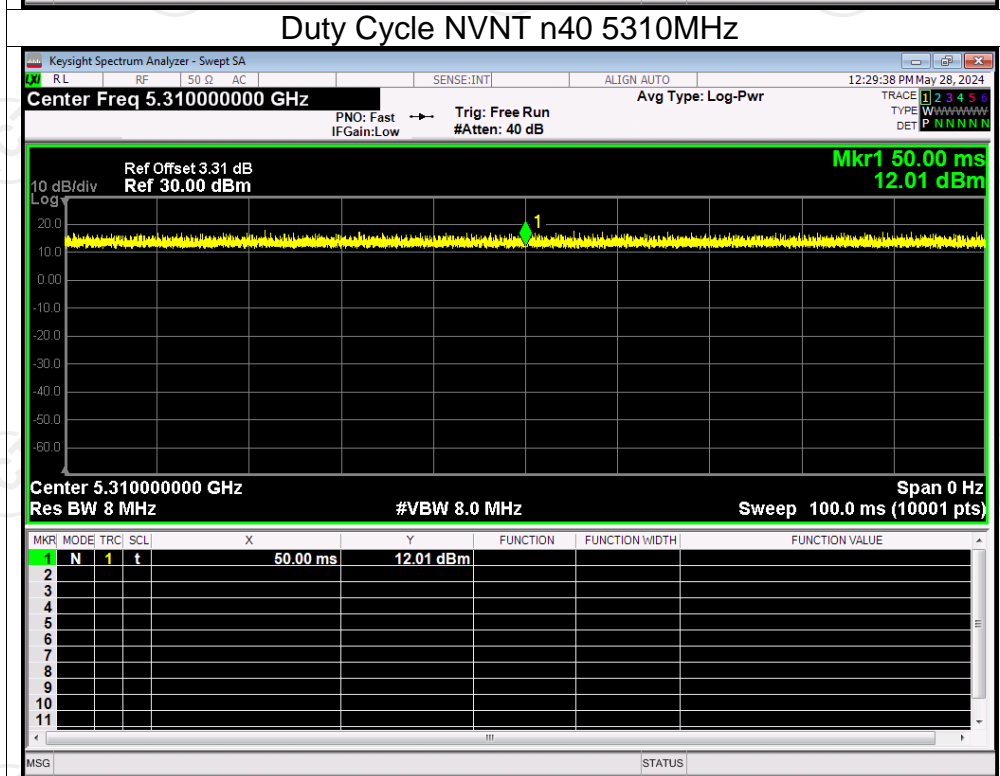
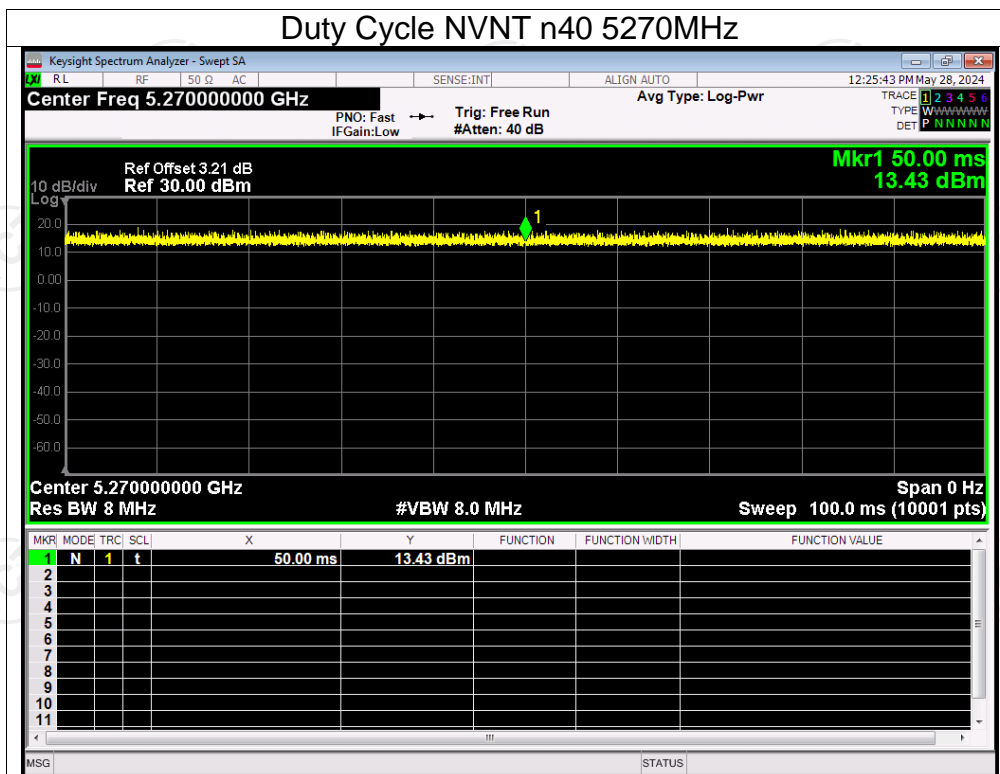


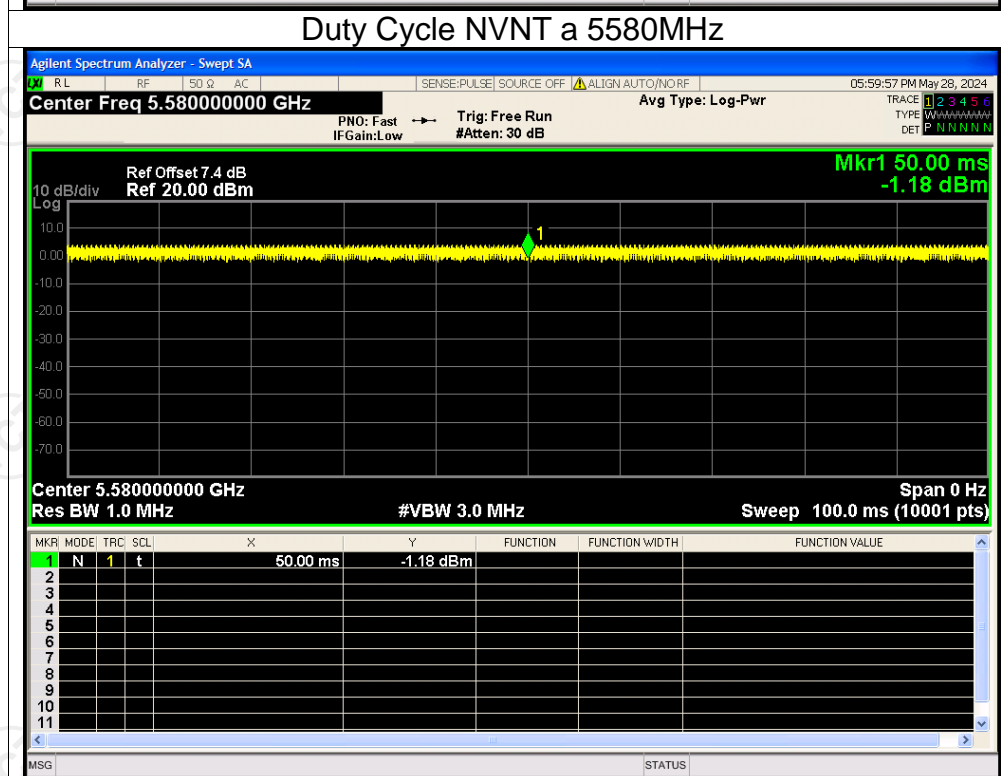
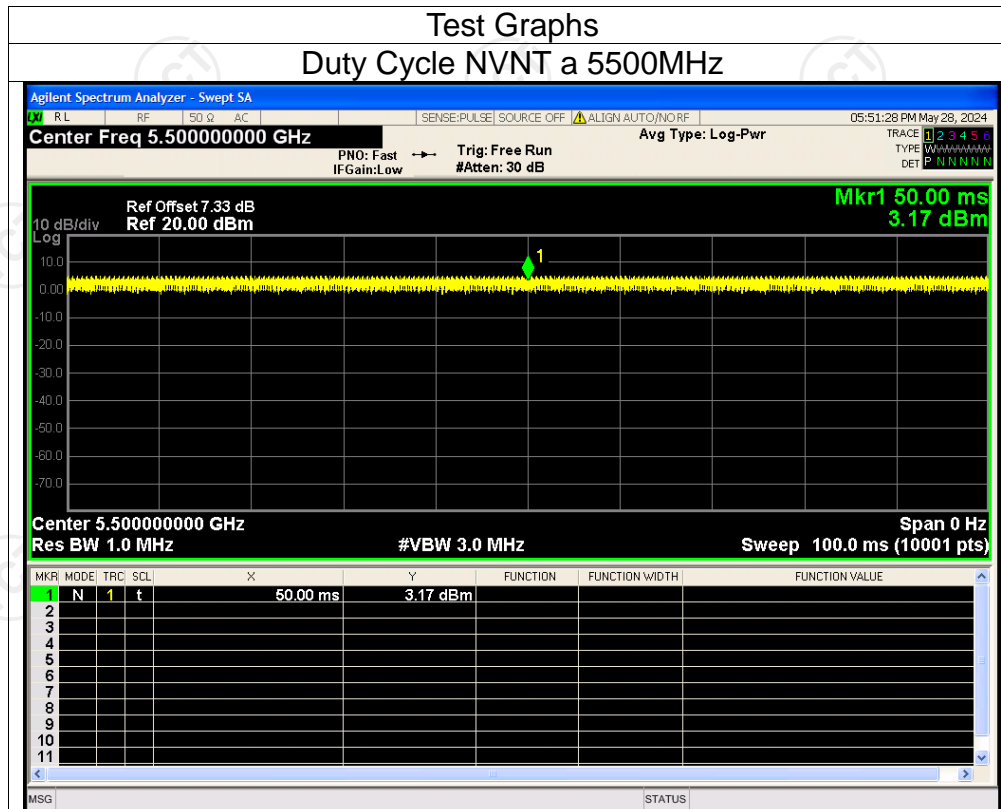
## Duty Cycle NVNT n20 5300MHz

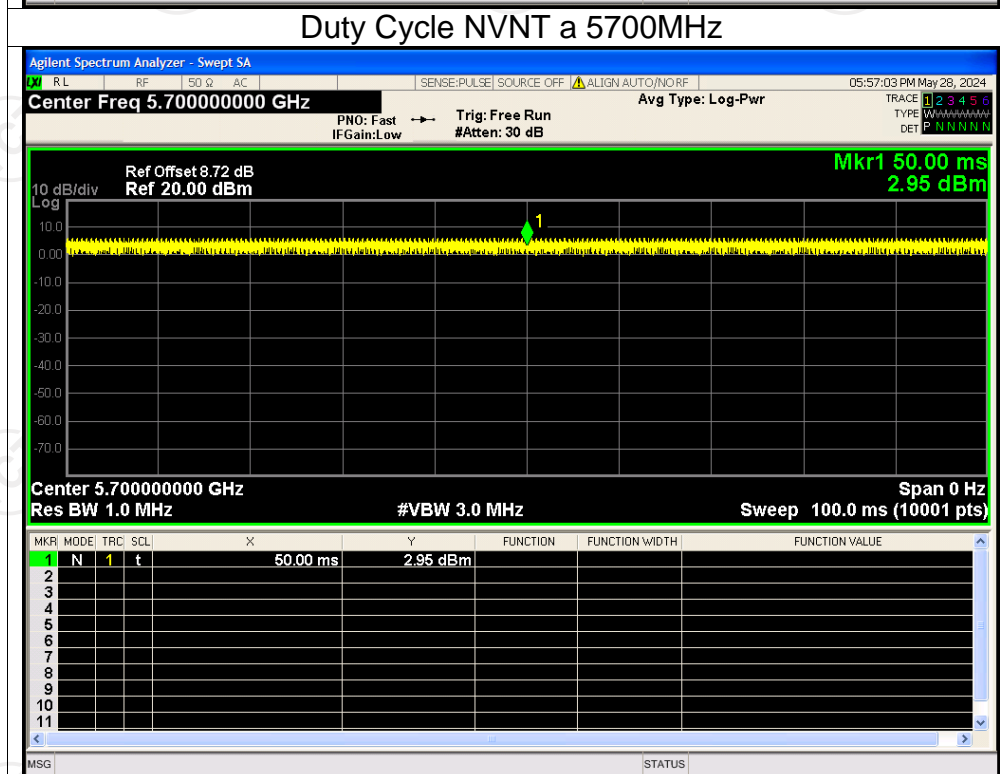
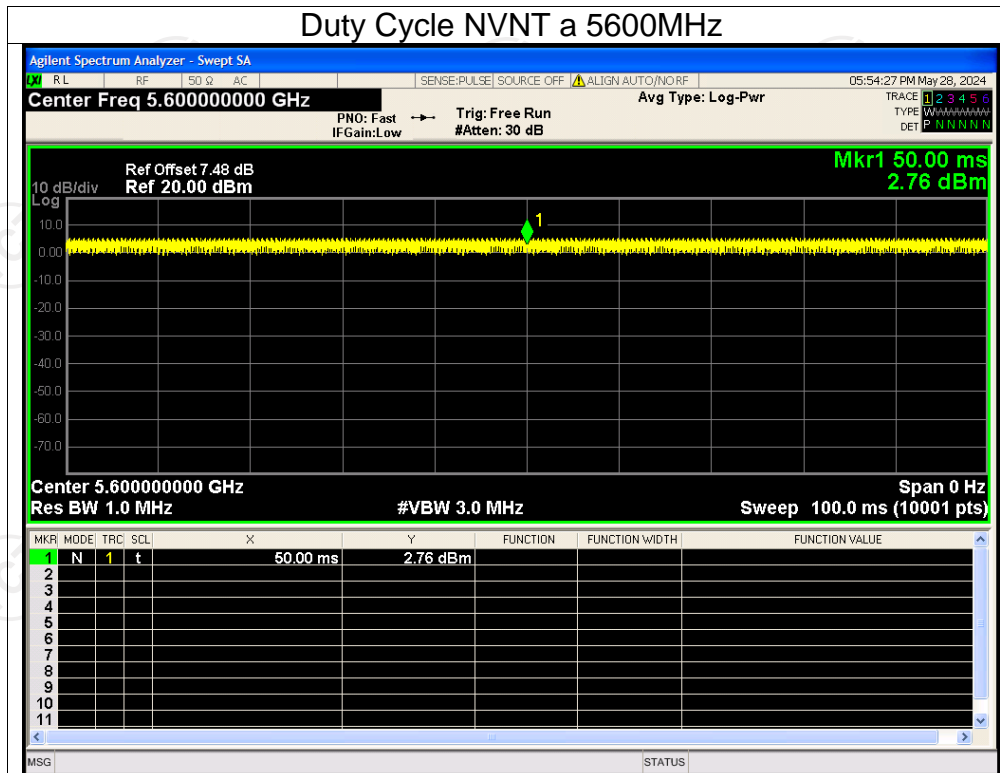


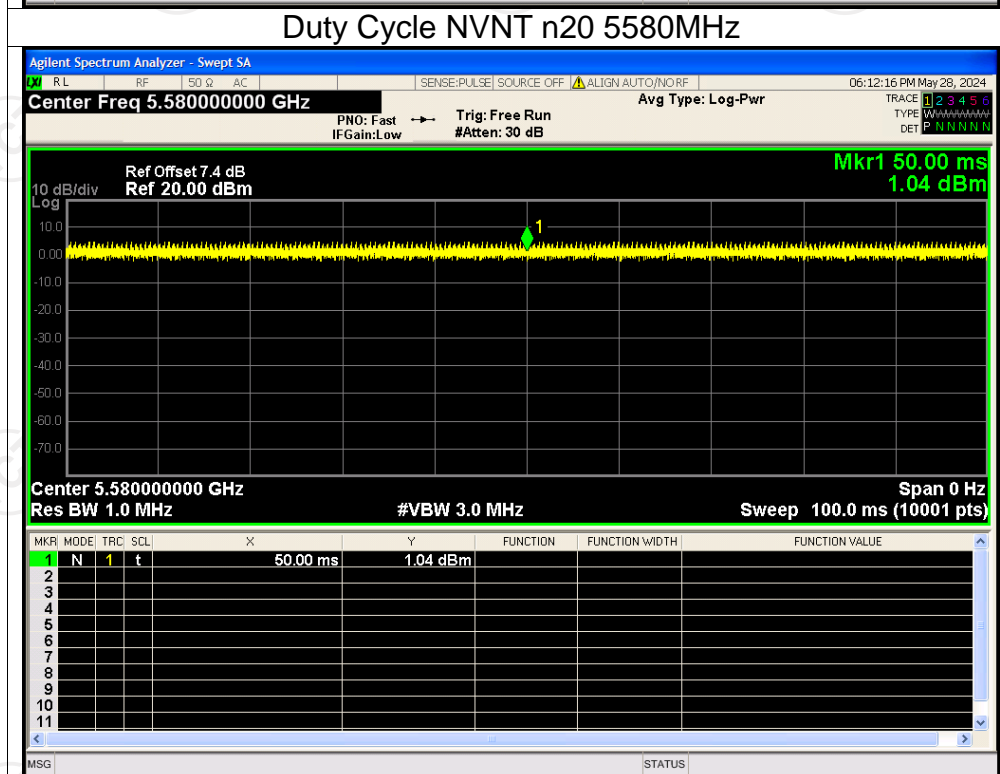
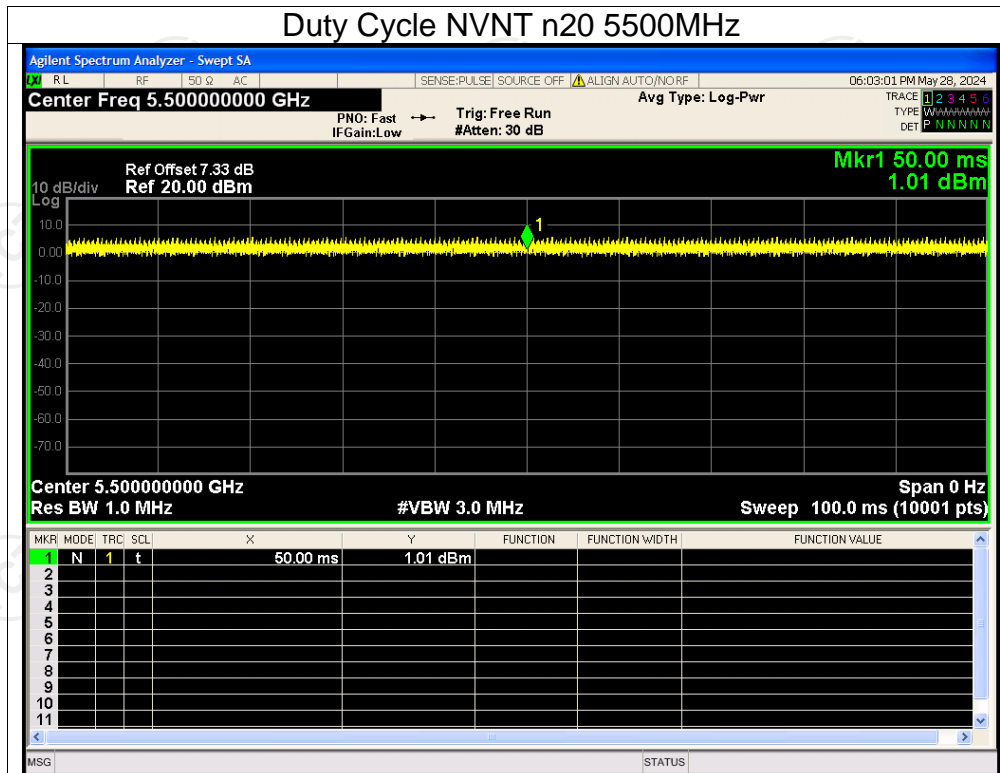
## Duty Cycle NVNT n20 5320MHz



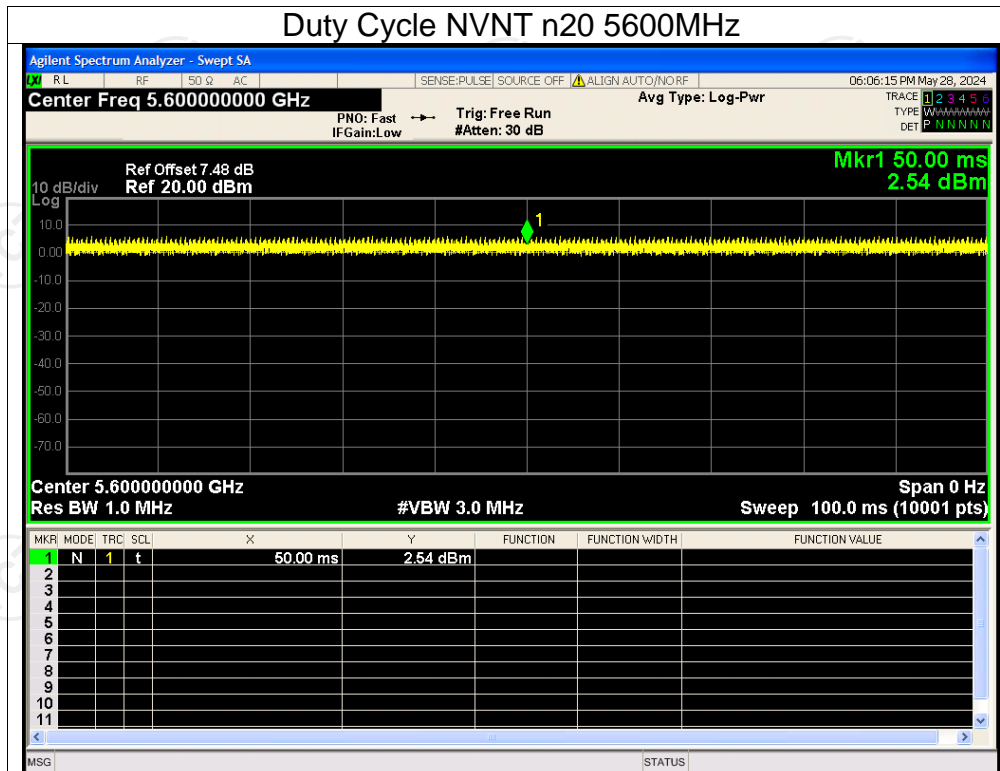




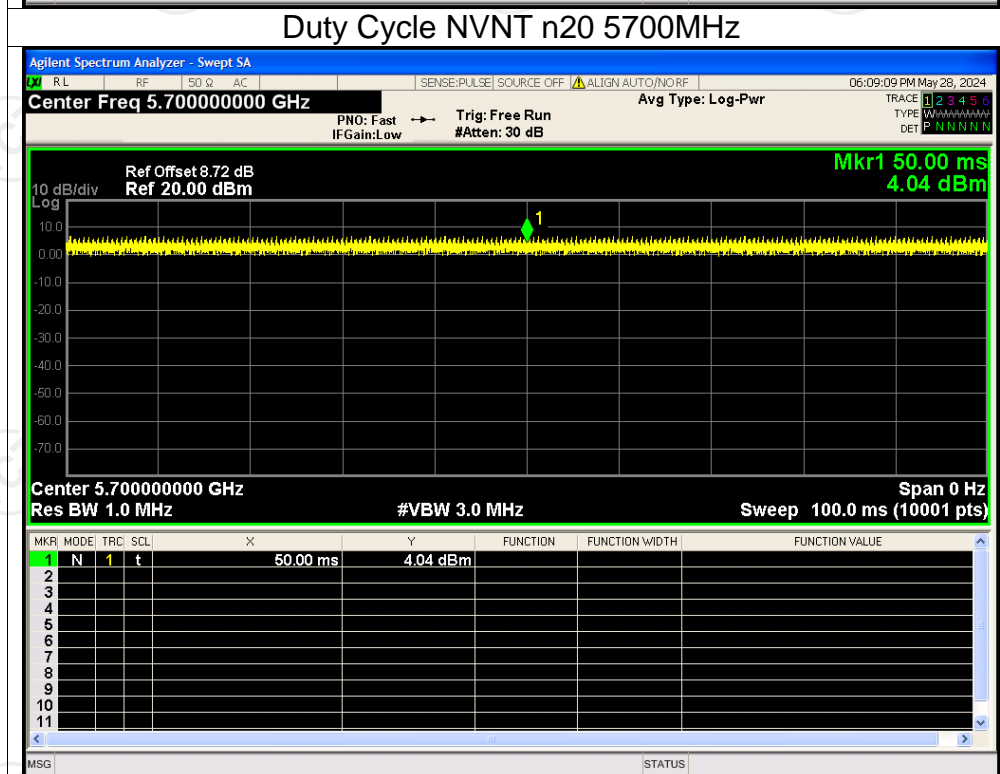


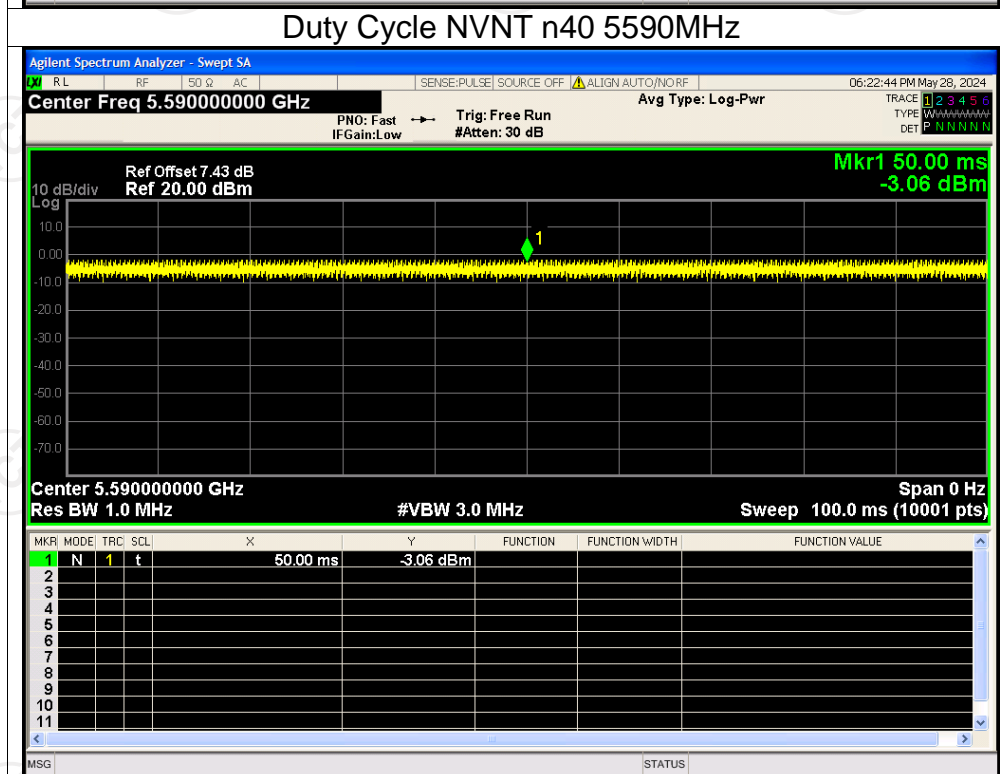
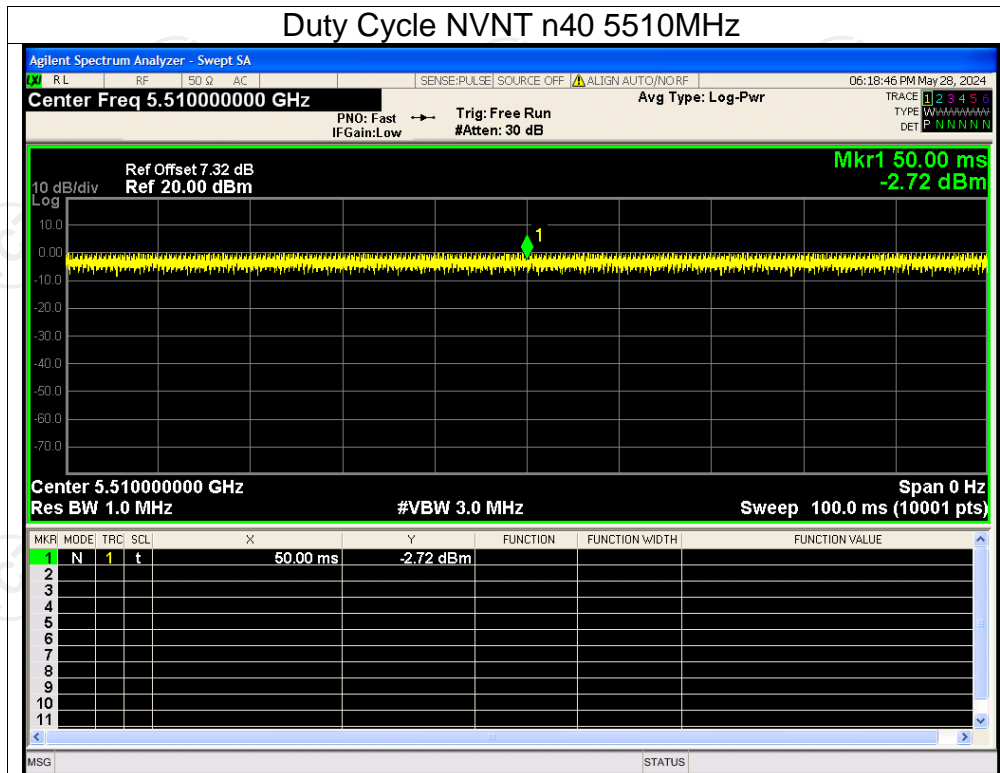


## Duty Cycle NVNT n20 5600MHz

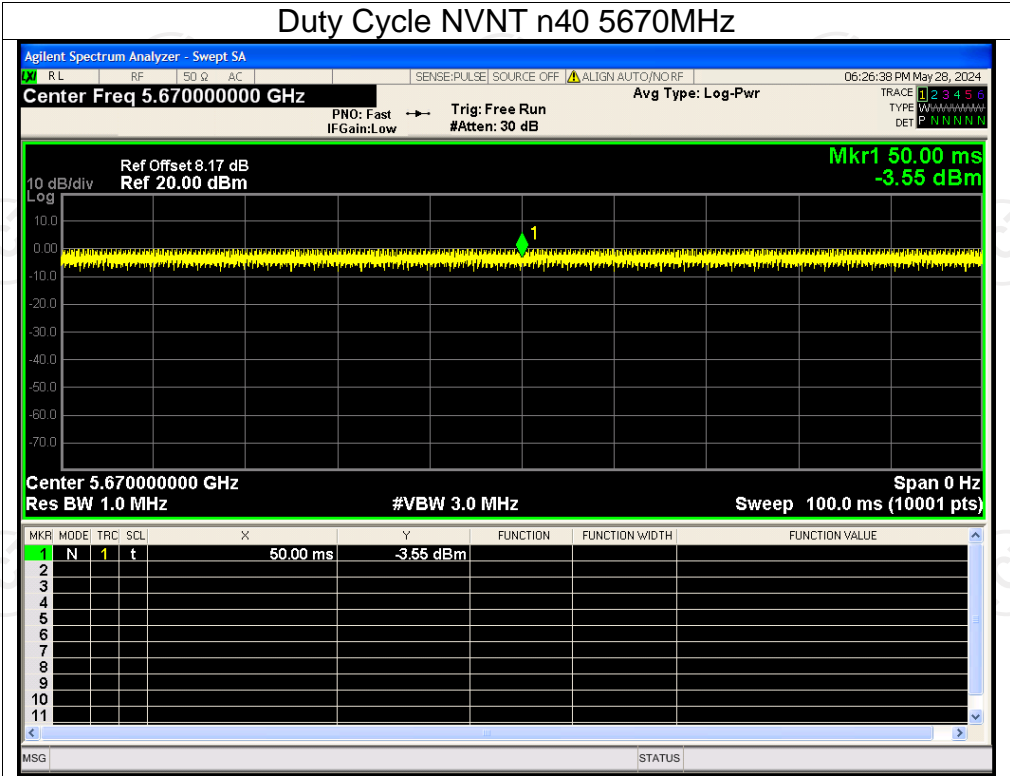


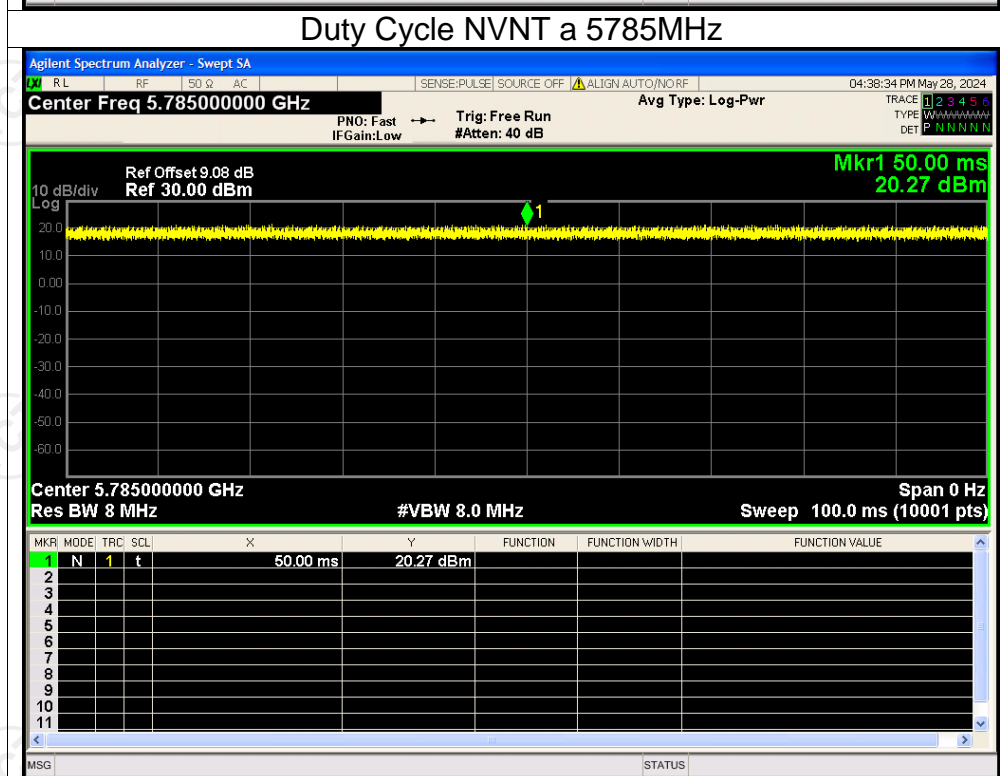
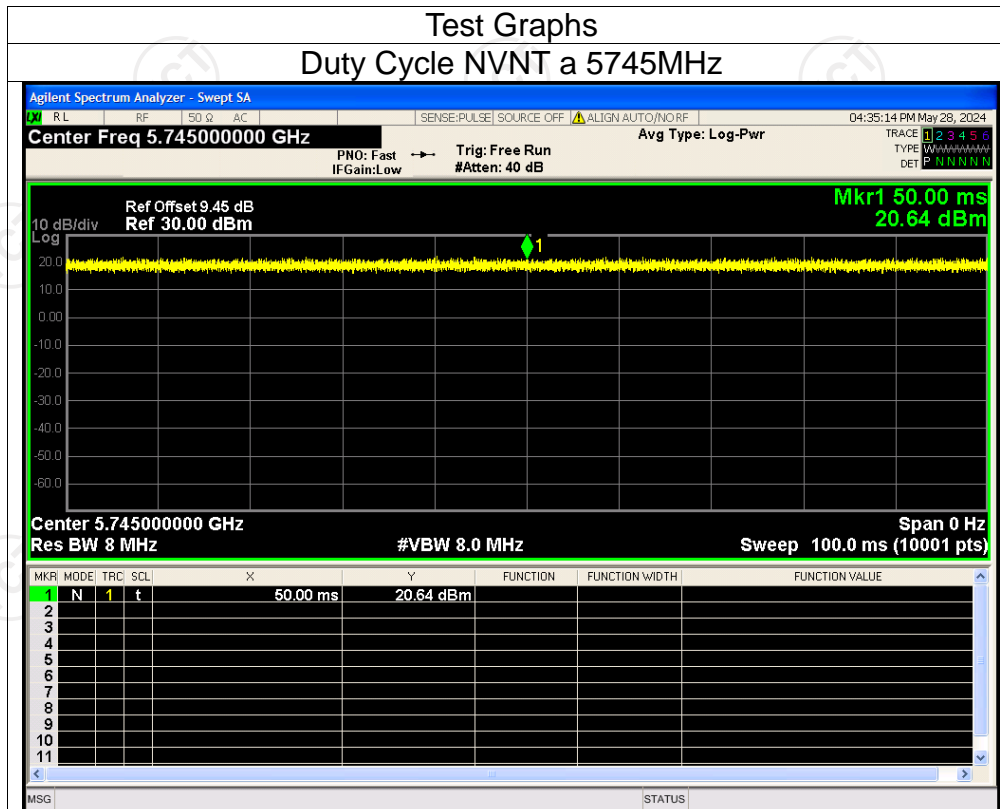
## Duty Cycle NVNT n20 5700MHz

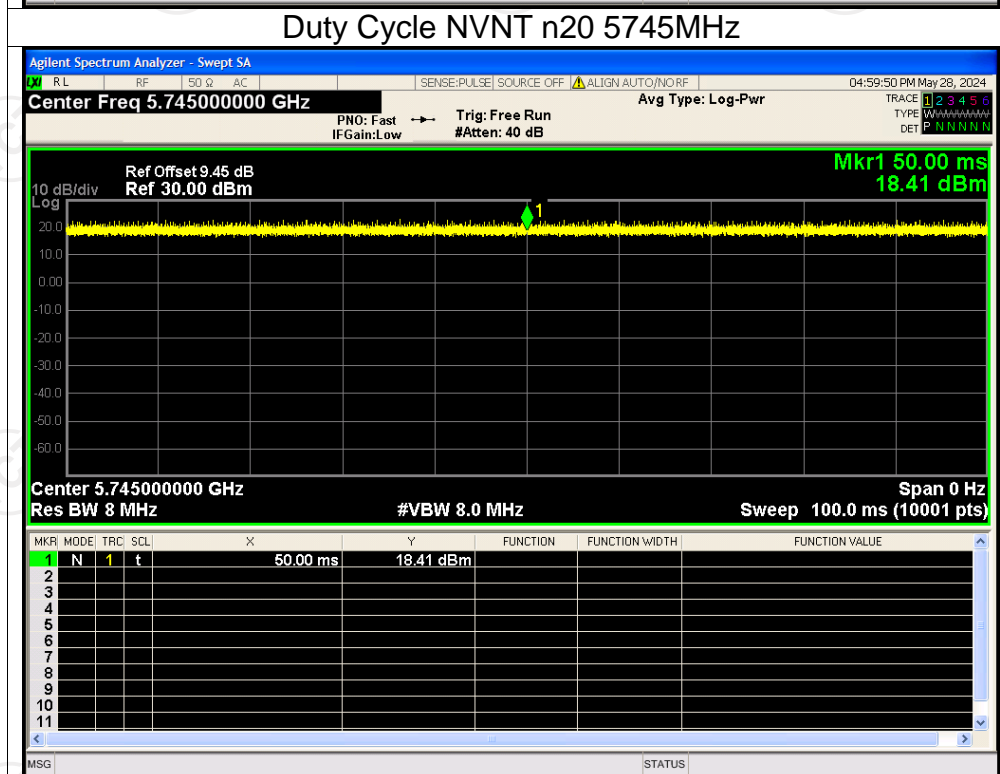
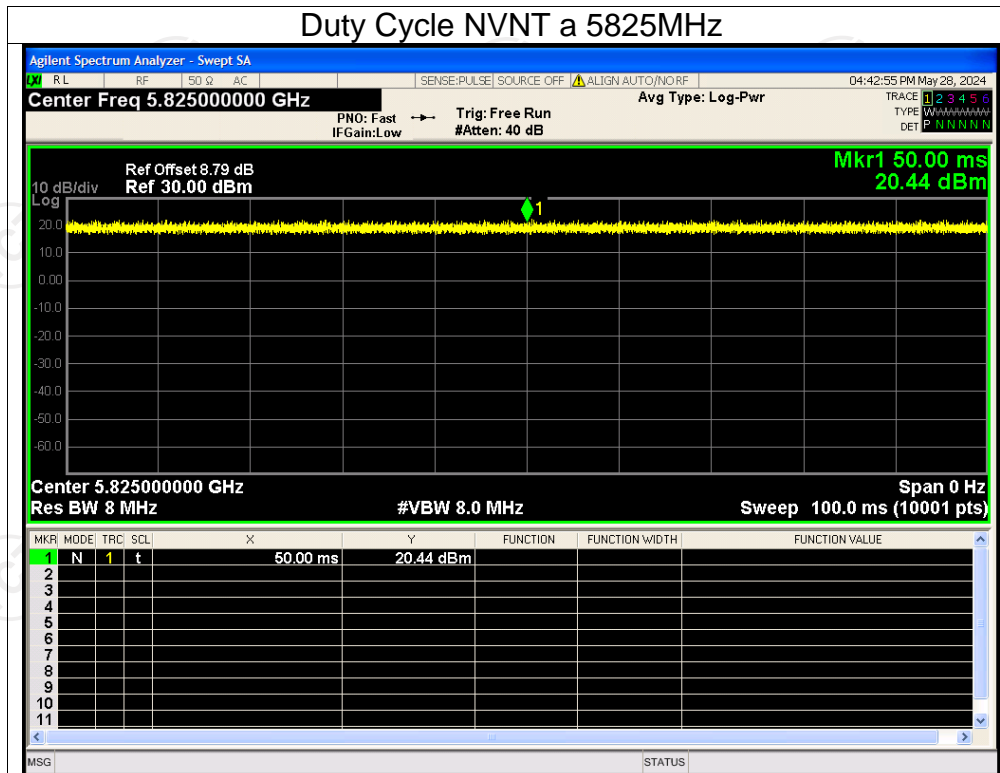


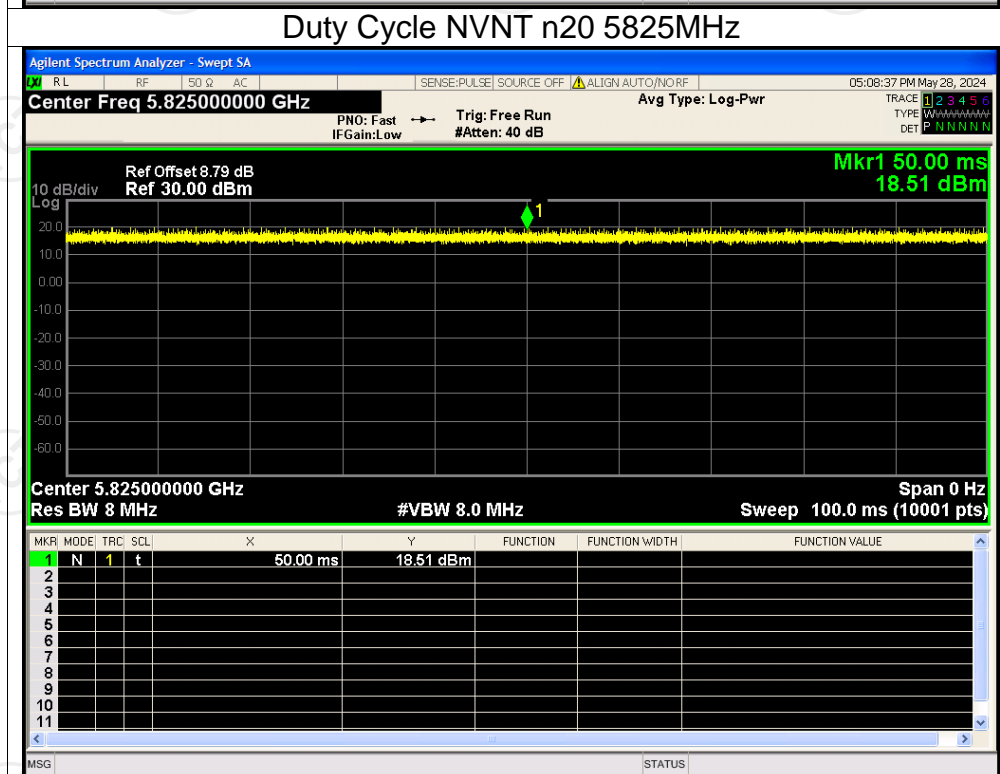
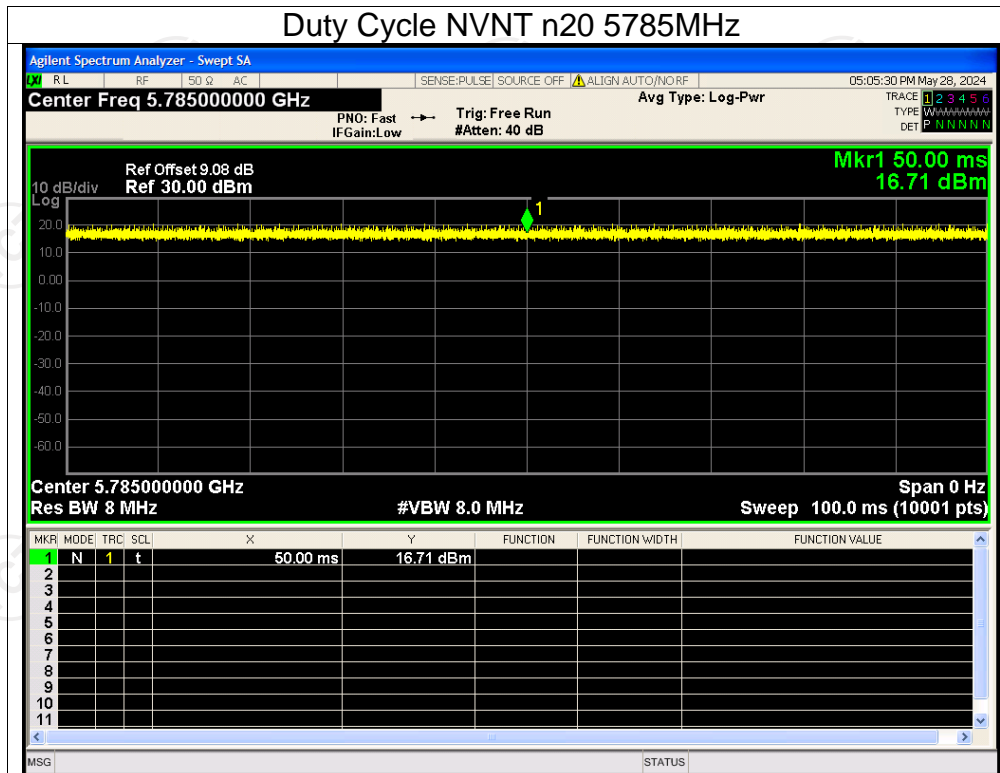


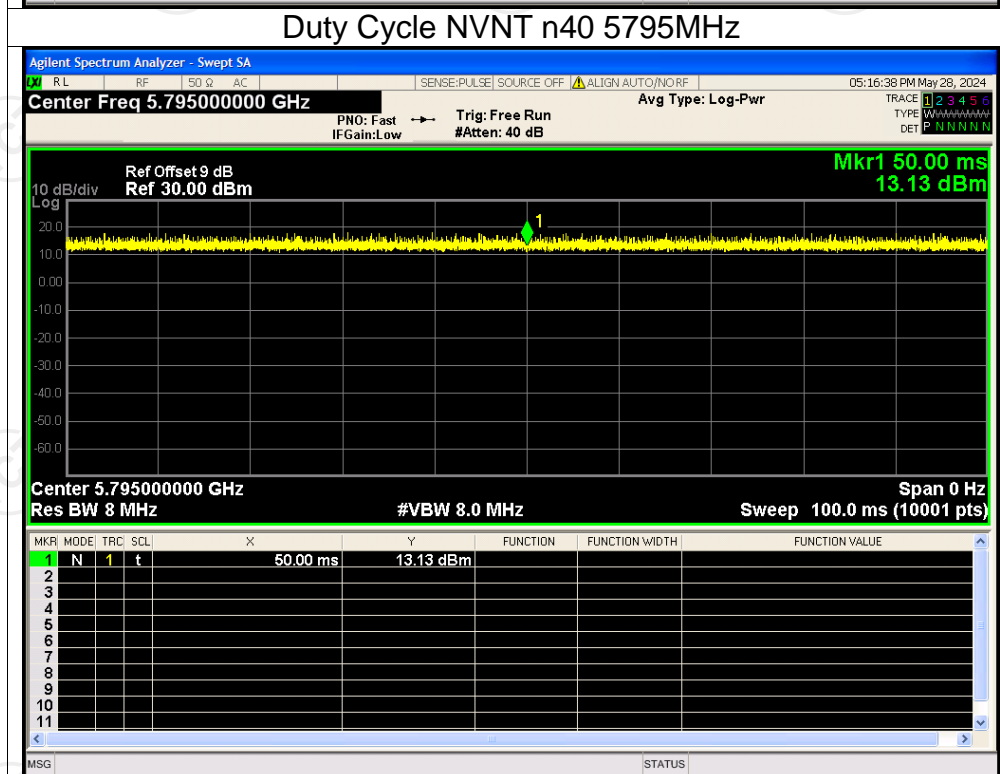
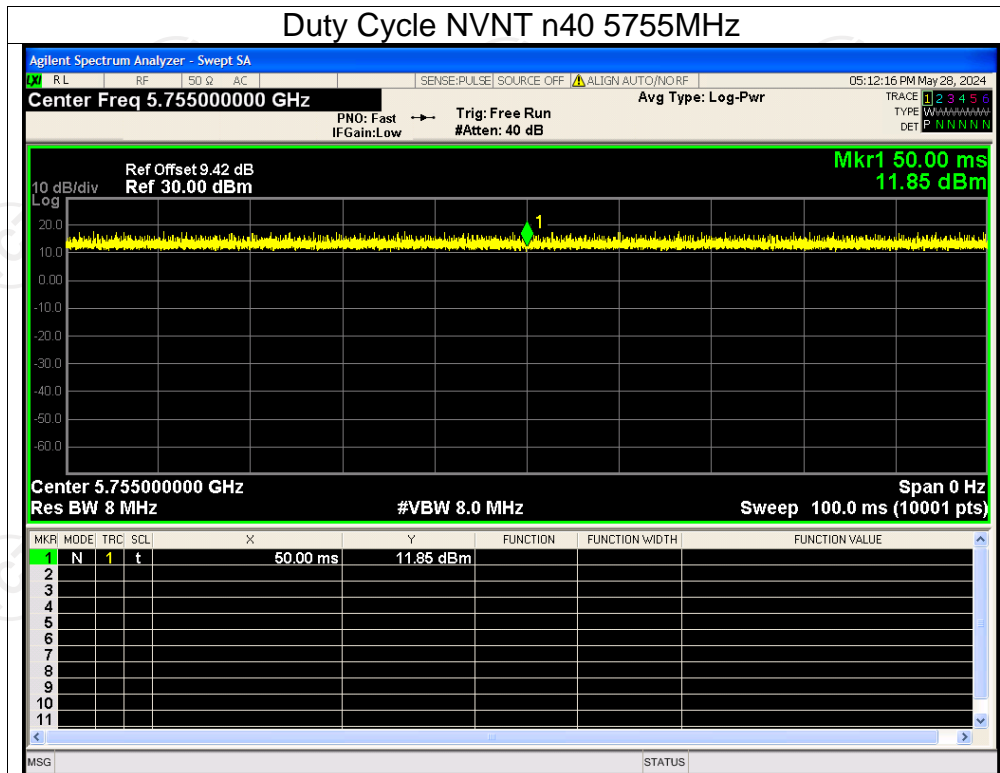






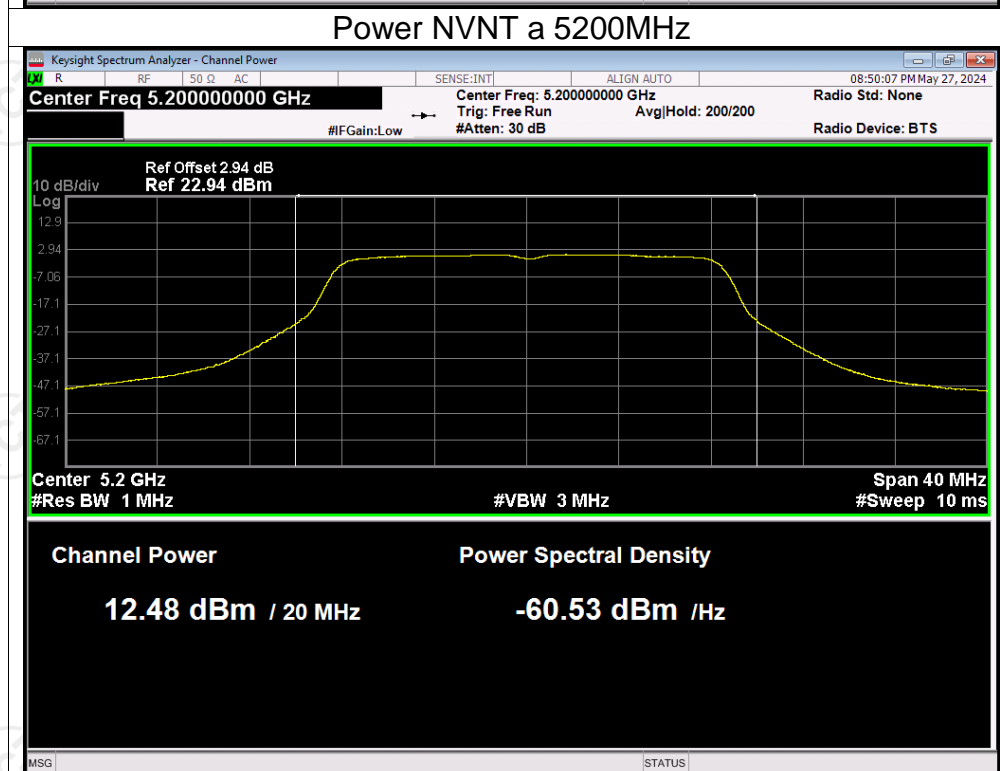
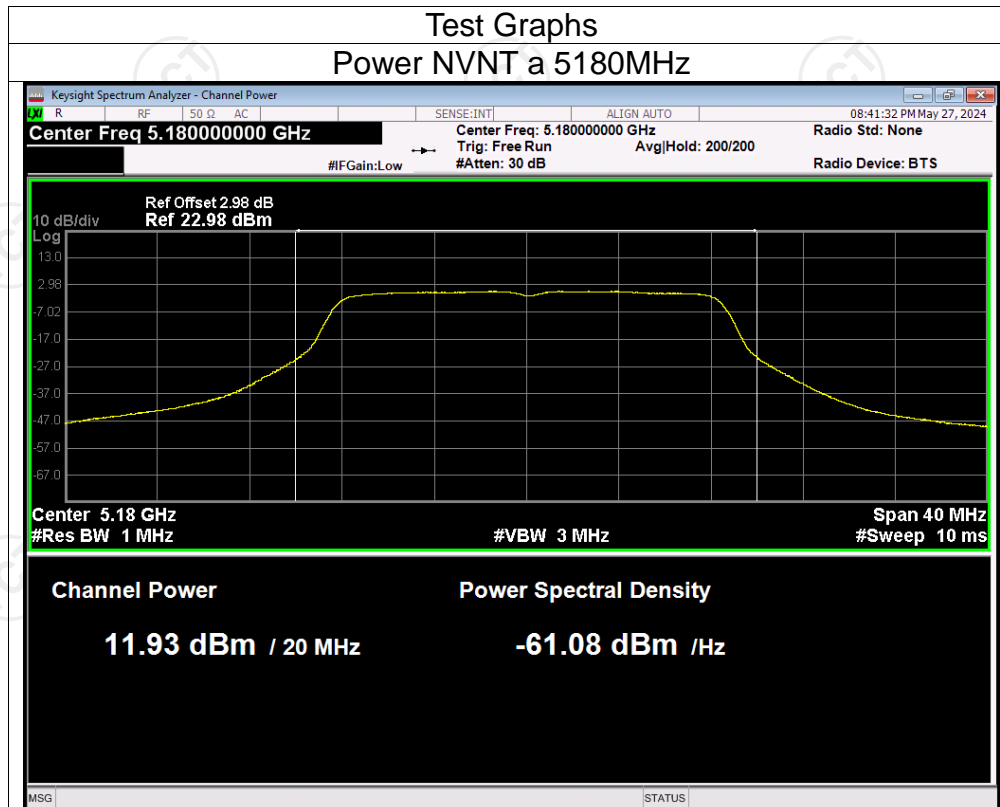


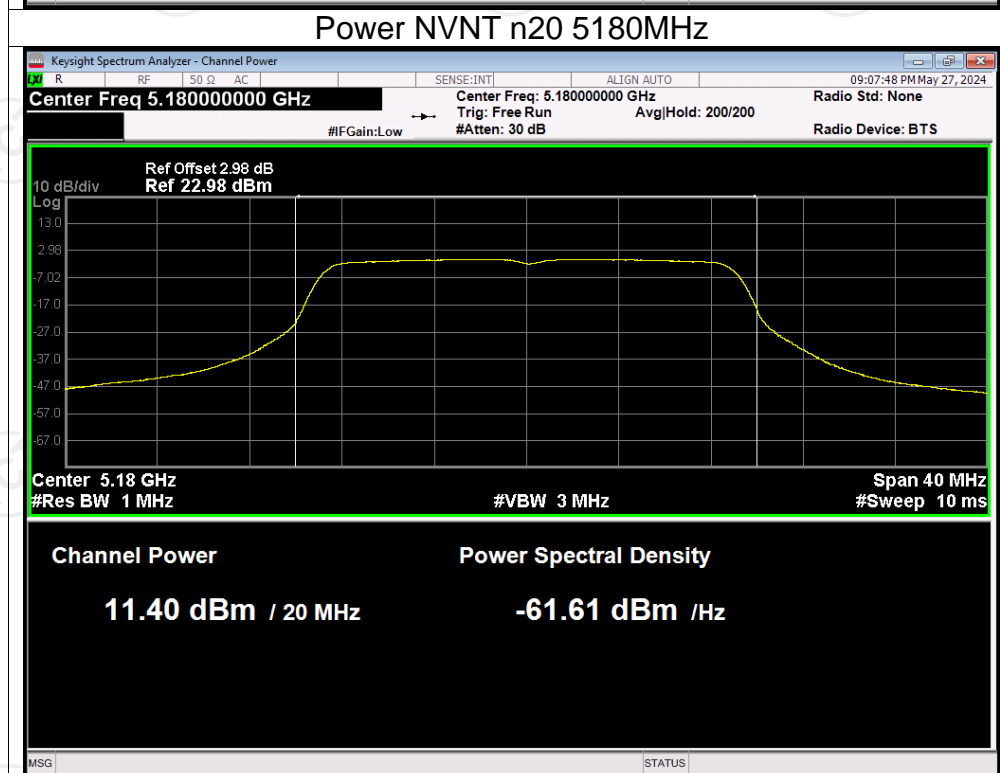
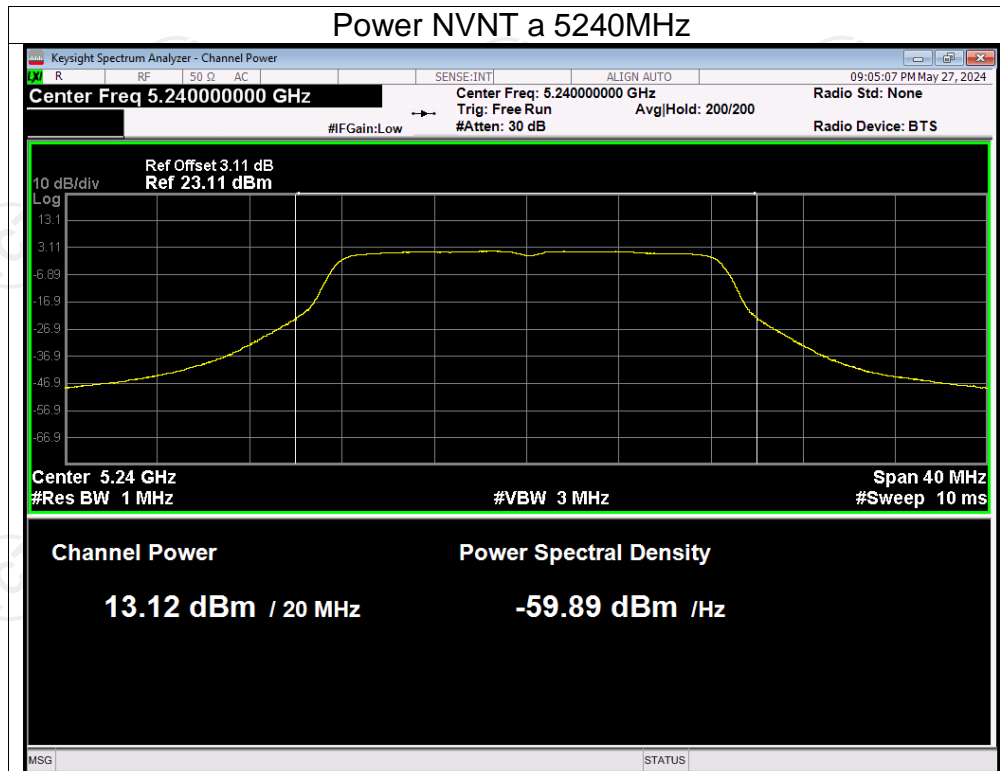




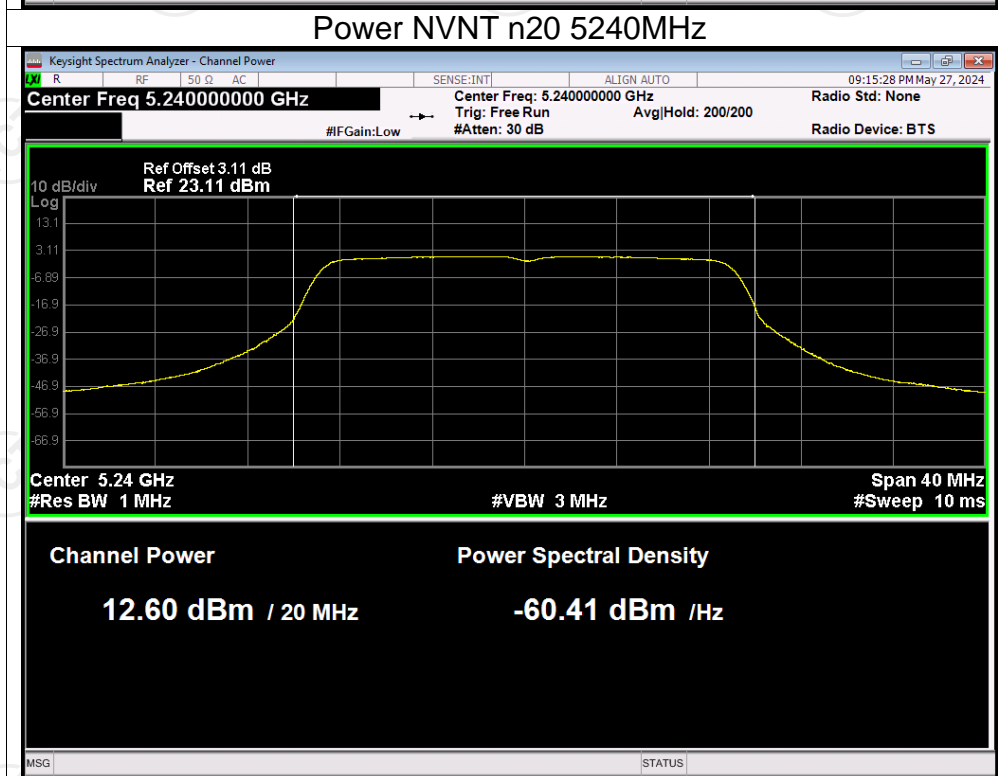
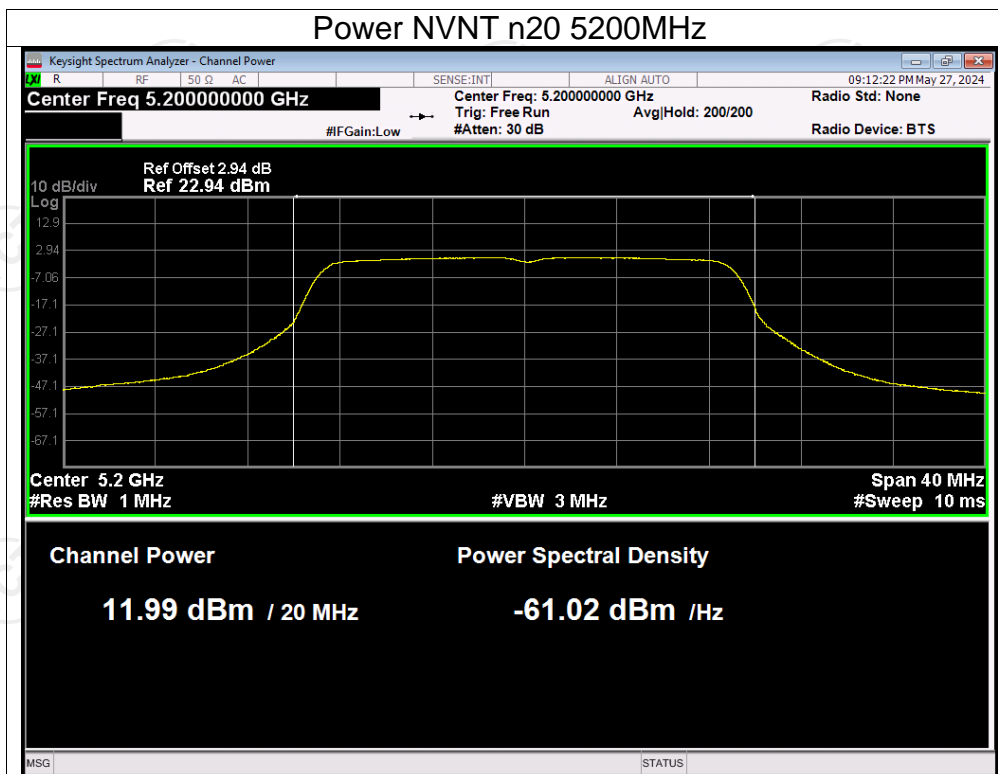
### Maximum Conducted Output Power

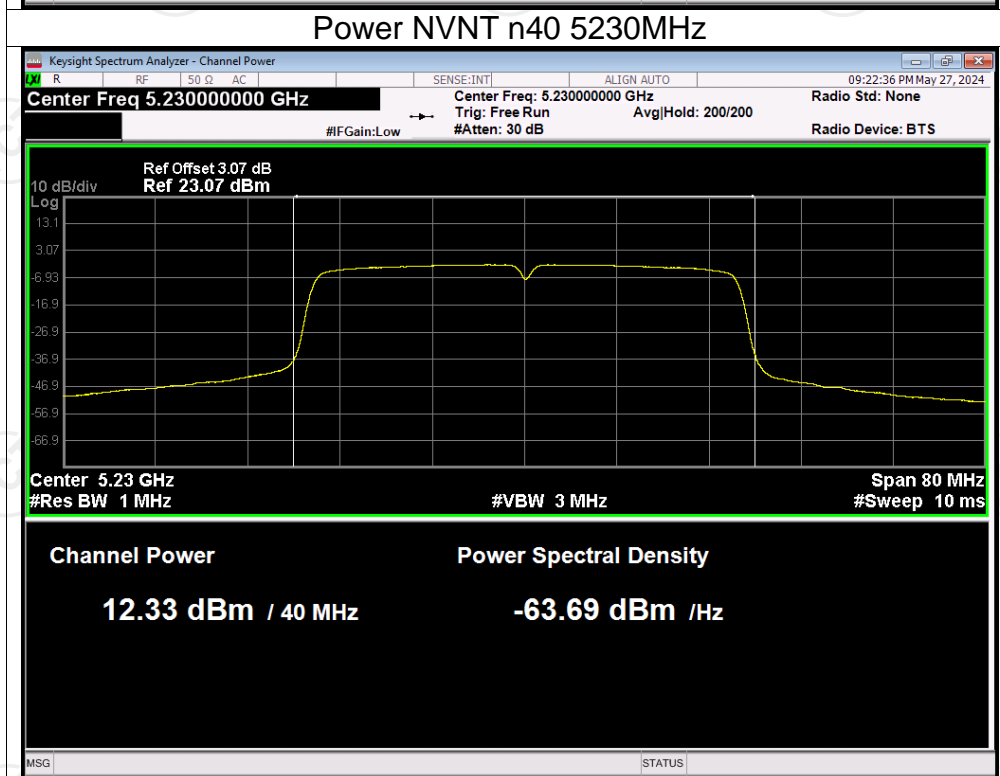
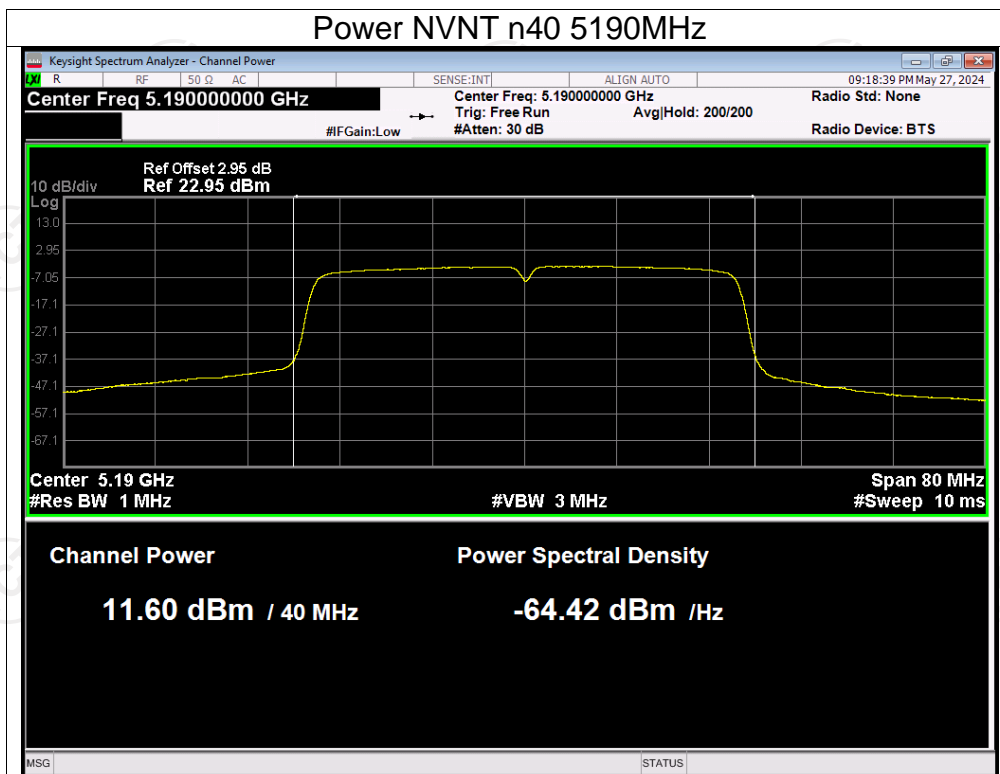
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	11.93	24	Pass
NVNT	a	5200	12.48	24	Pass
NVNT	a	5240	13.12	24	Pass
NVNT	n20	5180	11.40	24	Pass
NVNT	n20	5200	11.99	24	Pass
NVNT	n20	5240	12.60	24	Pass
NVNT	n40	5190	11.60	24	Pass
NVNT	n40	5230	12.33	24	Pass
NVNT	a	5260	13.68	24	Pass
NVNT	a	5300	13.99	24	Pass
NVNT	a	5320	13.26	24	Pass
NVNT	n20	5260	13.48	24	Pass
NVNT	n20	5300	13.99	24	Pass
NVNT	n20	5320	13.29	24	Pass
NVNT	n40	5270	13.96	24	Pass
NVNT	n40	5310	13.69	24	Pass
NVNT	a	5500	9.33	24	Pass
NVNT	a	5580	8.45	24	Pass
NVNT	a	5600	9.98	24	Pass
NVNT	a	5700	10.51	24	Pass
NVNT	n20	5500	9.19	24	Pass
NVNT	n20	5580	8.59	24	Pass
NVNT	n20	5600	9.63	24	Pass
NVNT	n20	5700	10.49	24	Pass
NVNT	n40	5510	10.30	24	Pass
NVNT	n40	5590	8.80	24	Pass
NVNT	n40	5670	10.50	24	Pass
NVNT	a	5745	14.21	30	Pass
NVNT	a	5785	13.45	30	Pass
NVNT	a	5825	14.46	30	Pass
NVNT	n20	5745	14.54	30	Pass
NVNT	n20	5785	12.68	30	Pass
NVNT	n20	5825	12.15	30	Pass
NVNT	n40	5755	12.19	30	Pass
NVNT	n40	5795	12.62	30	Pass

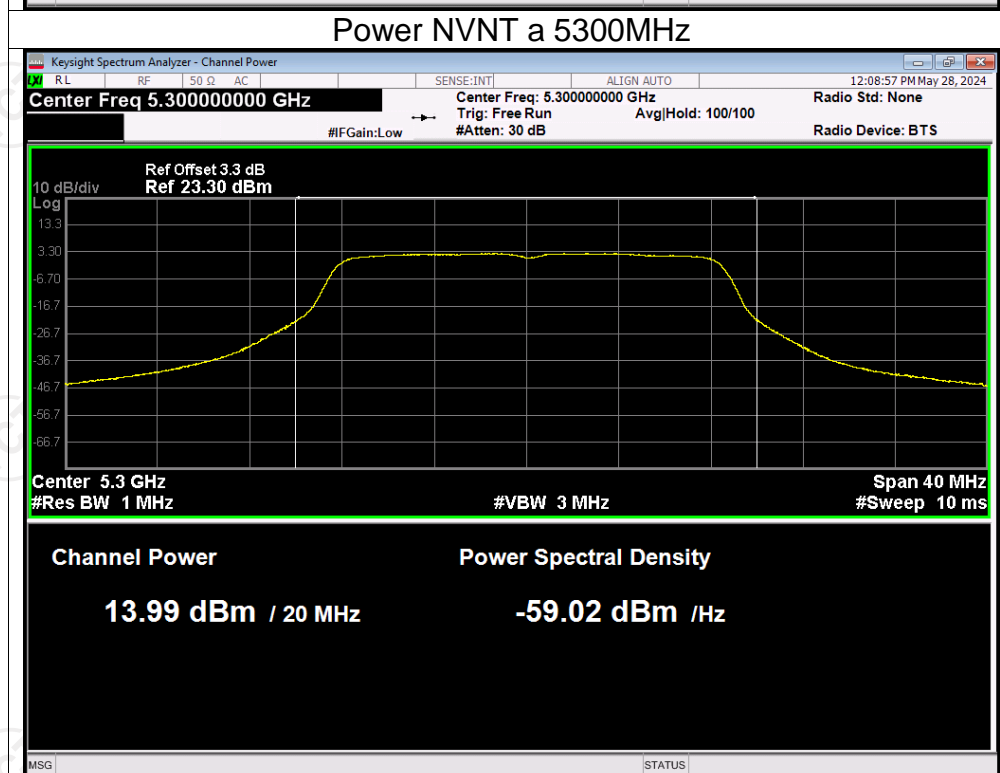
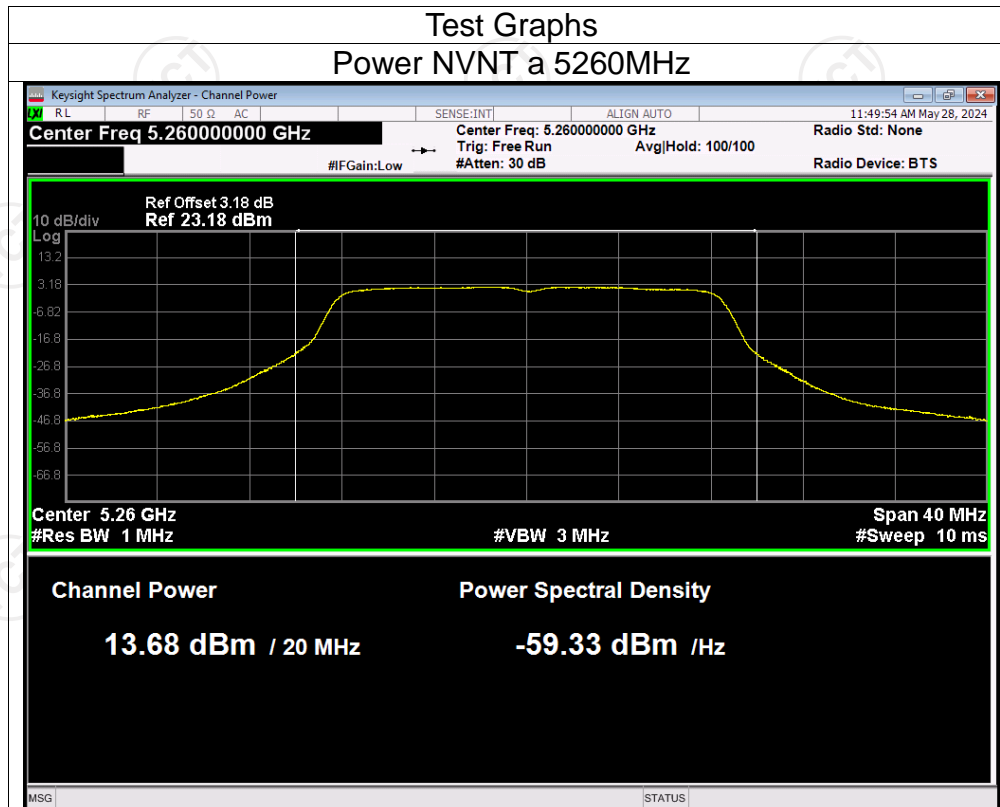


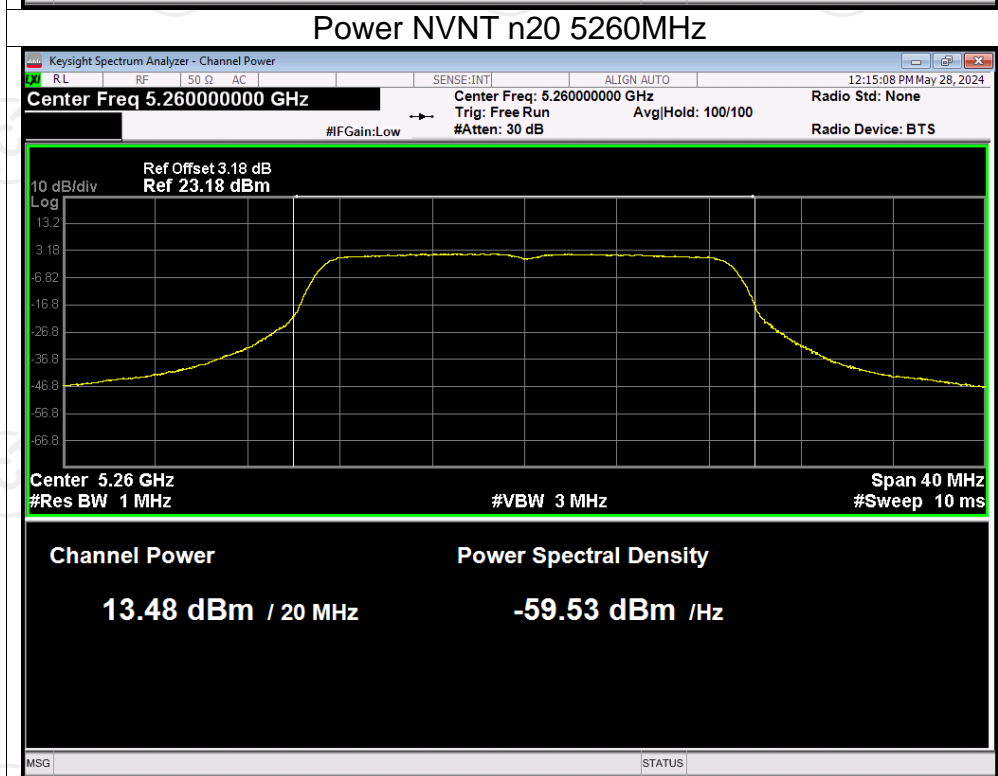
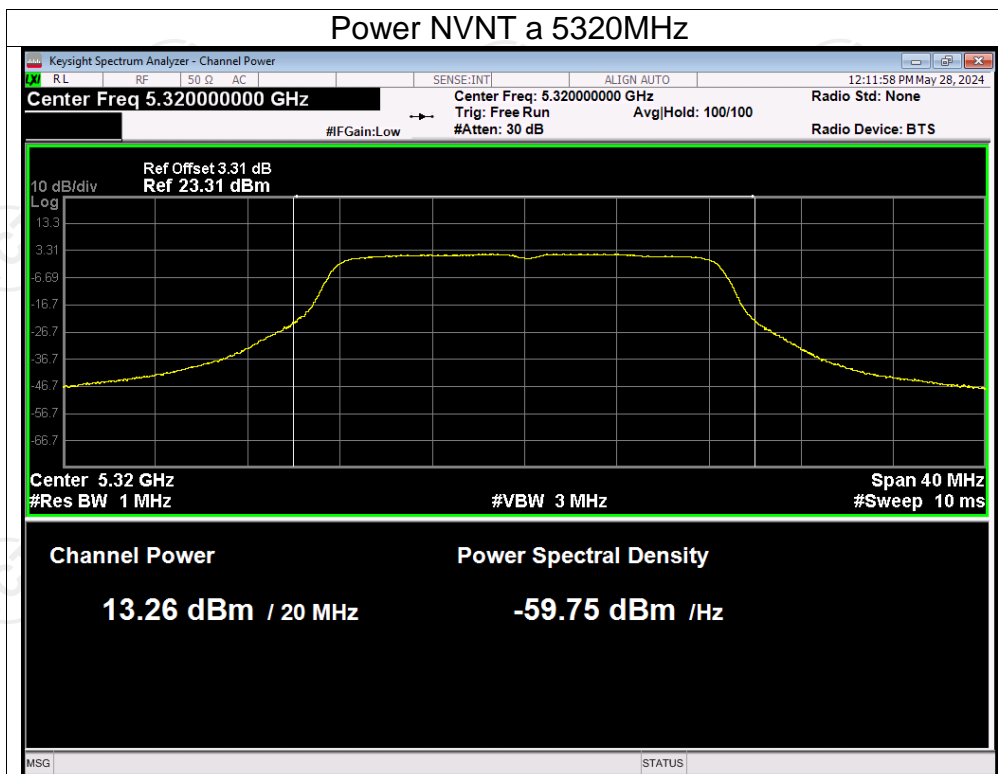


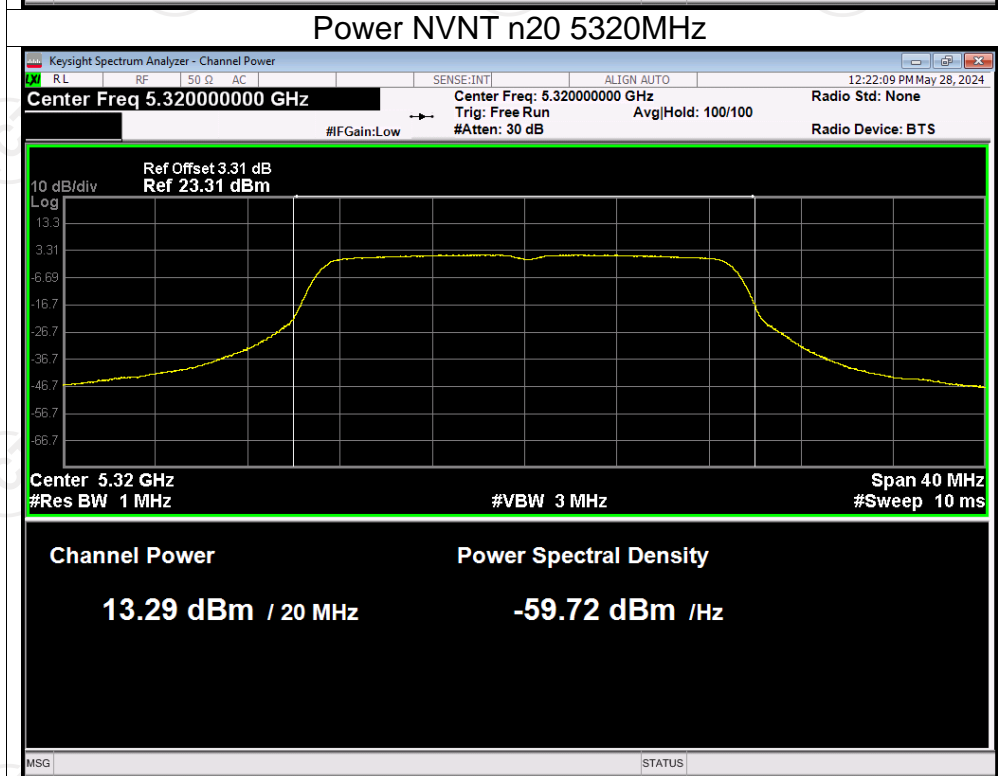
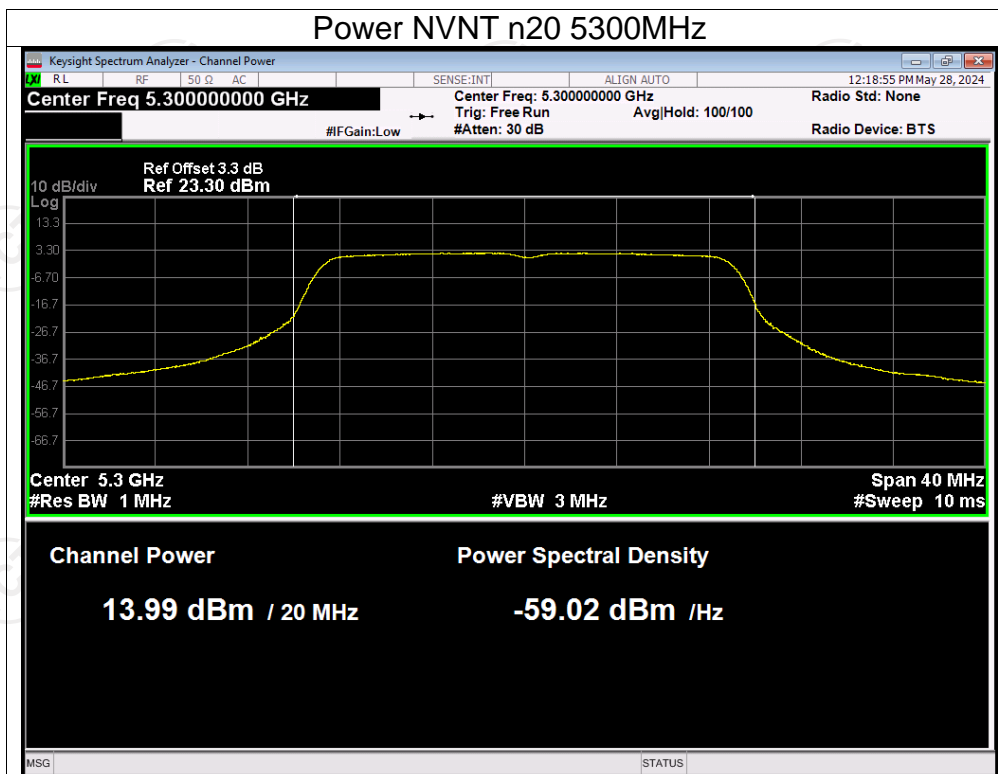


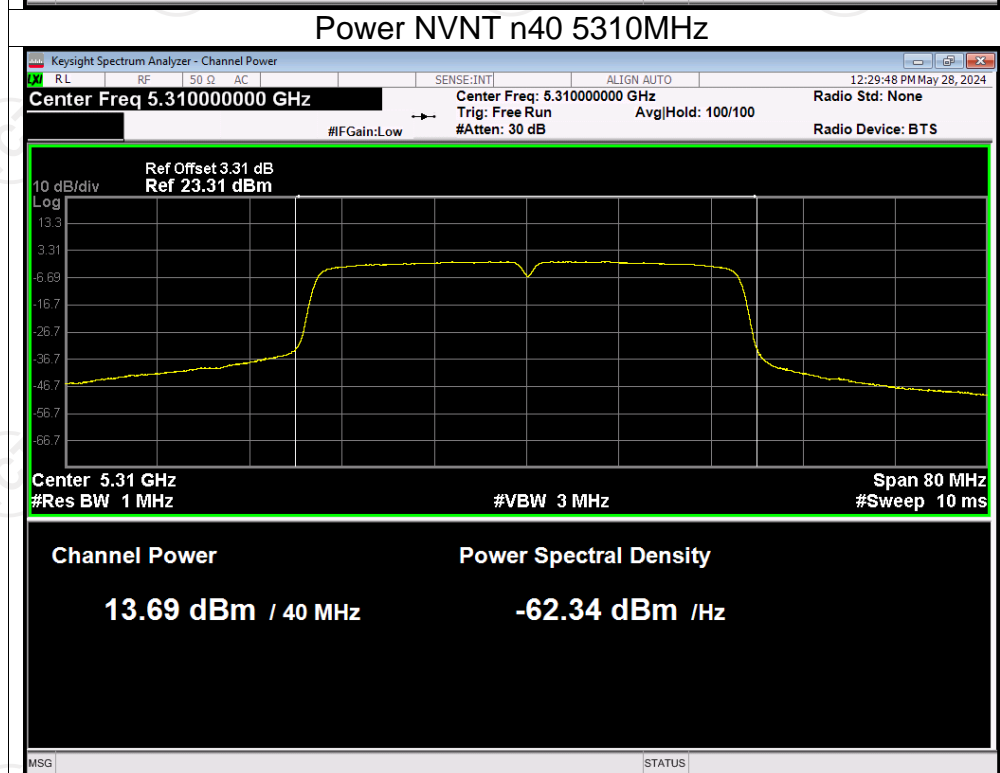
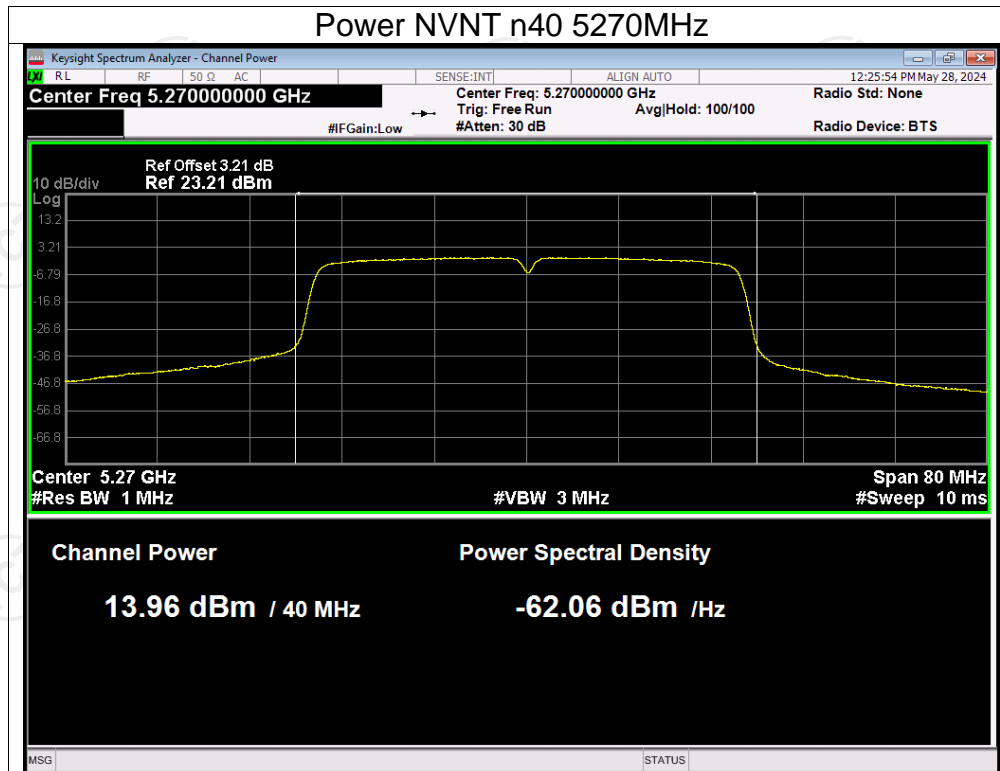






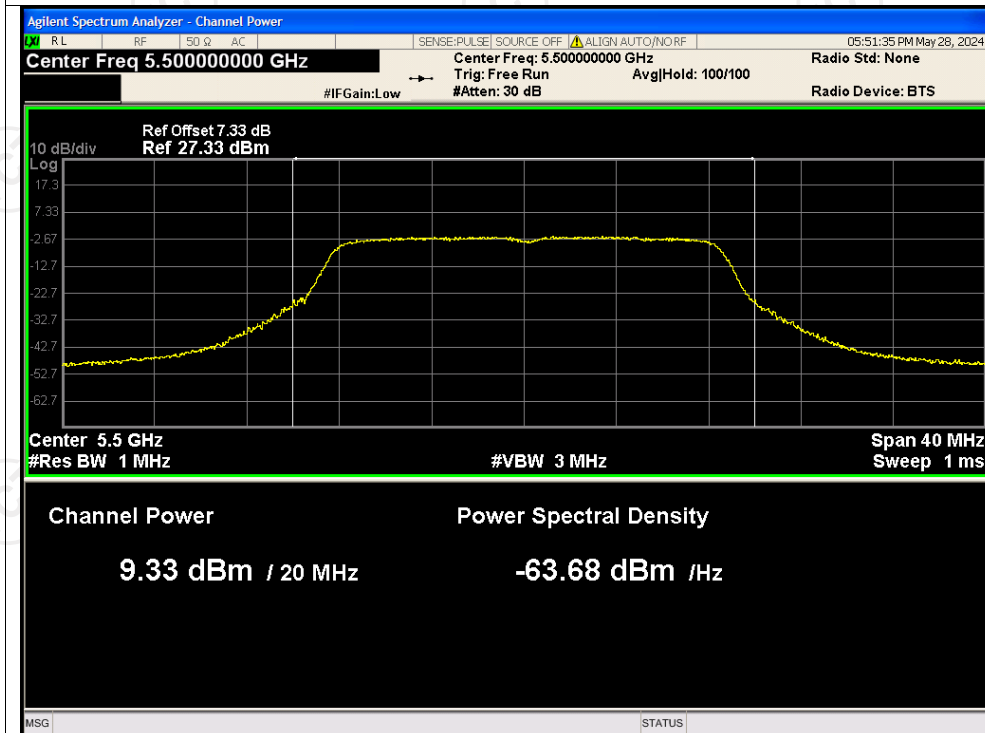




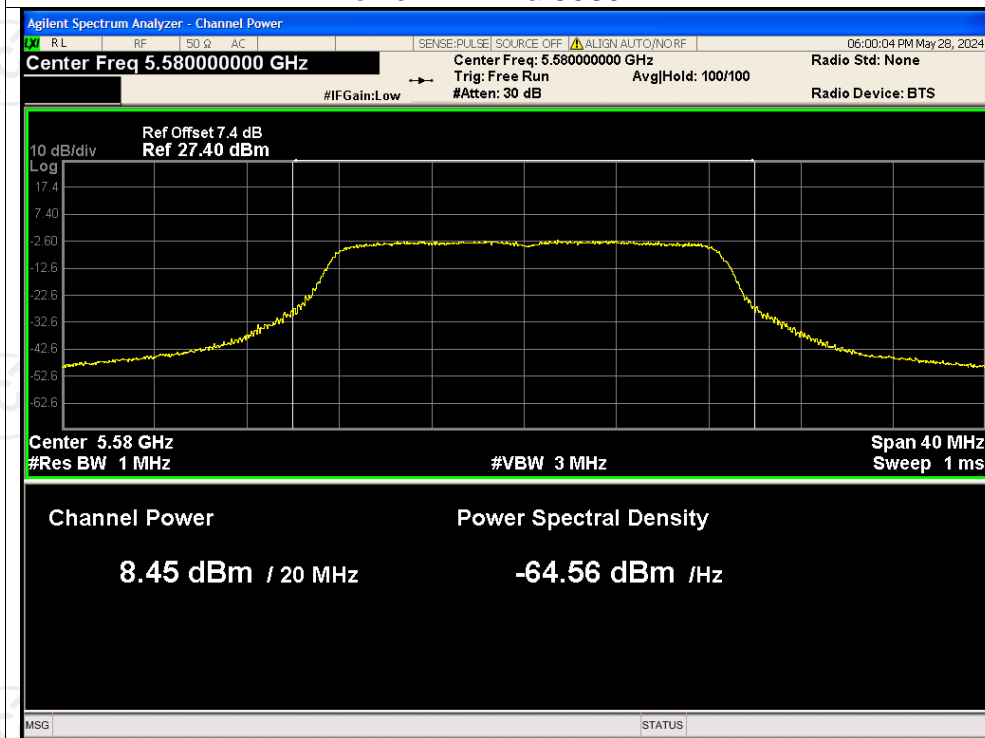


## Test Graphs

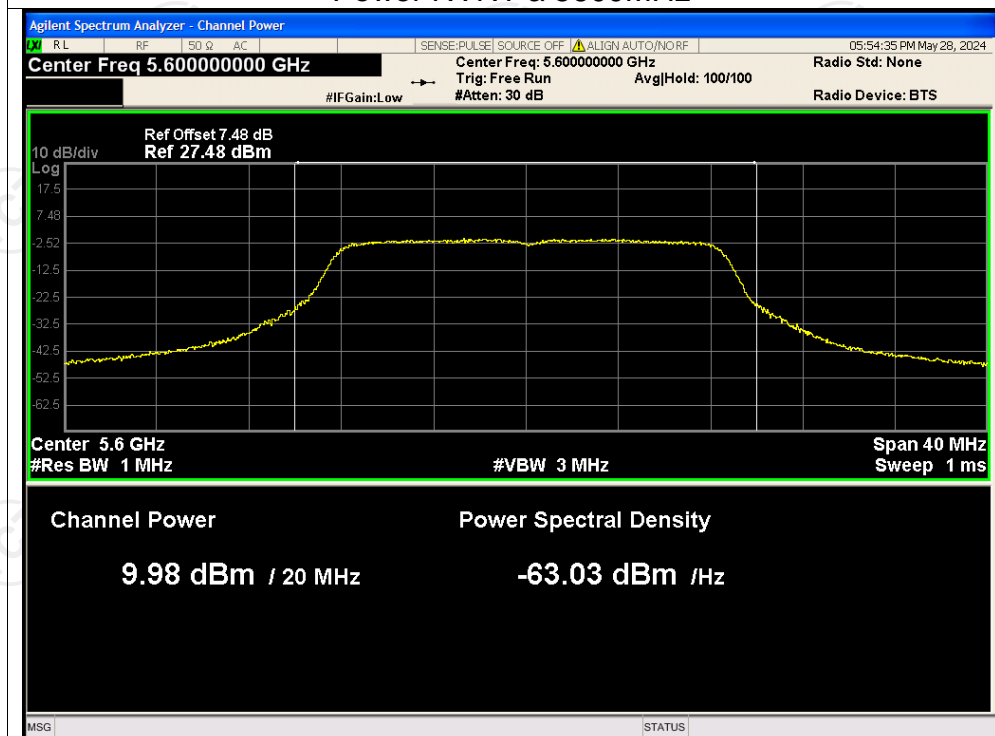
### Power NVNT a 5500MHz



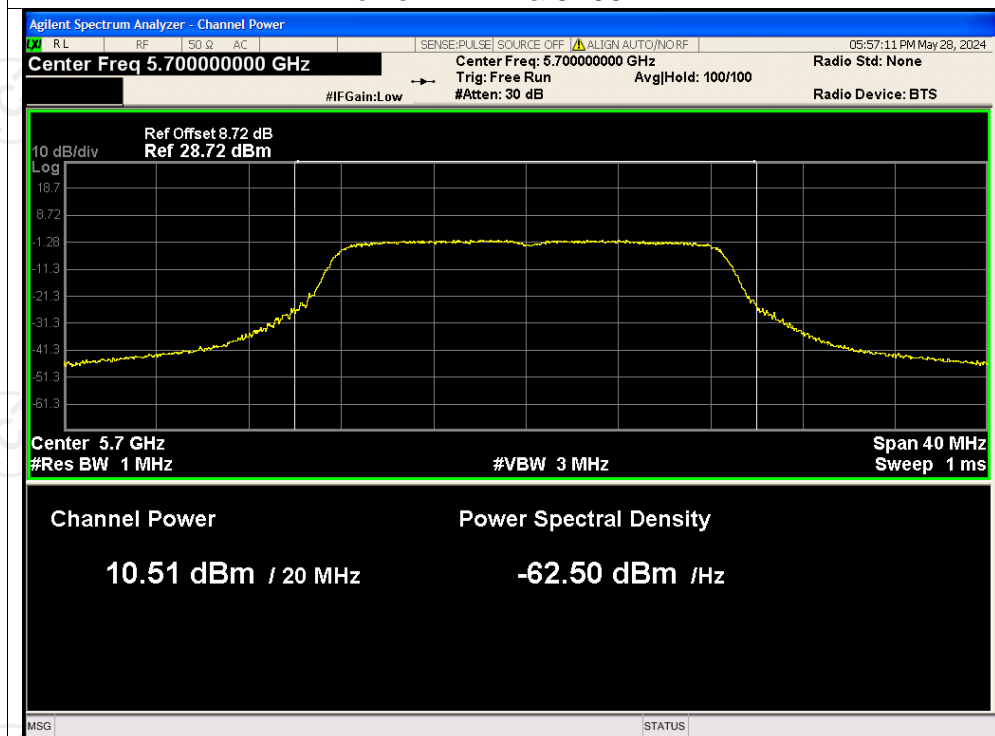
### Power NVNT a 5580MHz



## Power NVNT a 5600MHz

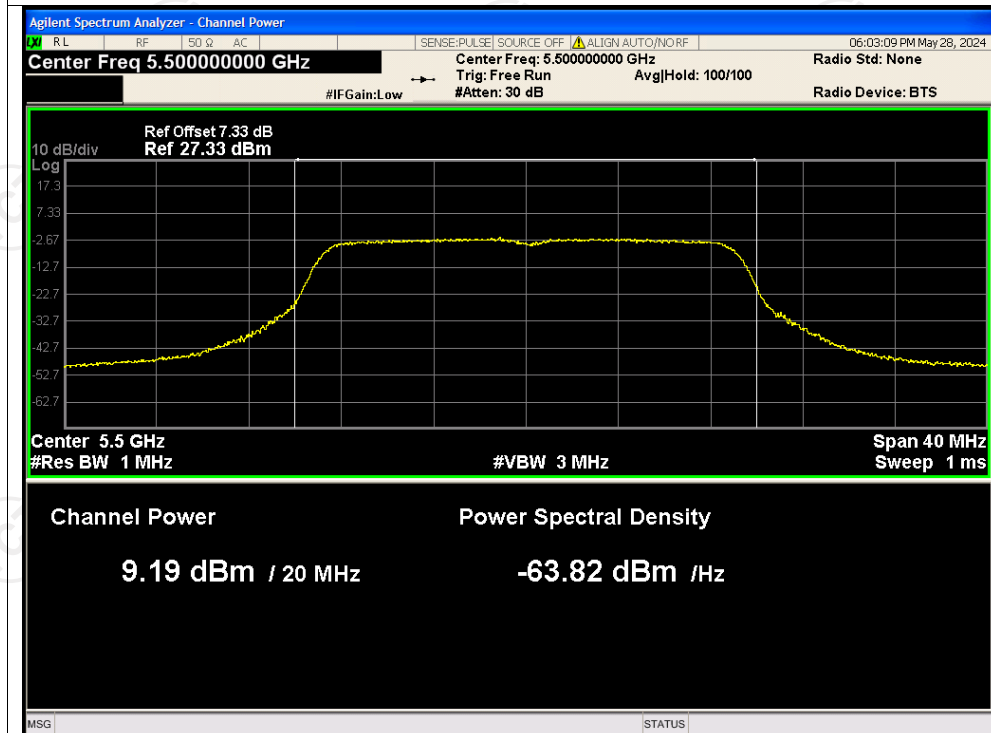


## Power NVNT a 5700MHz

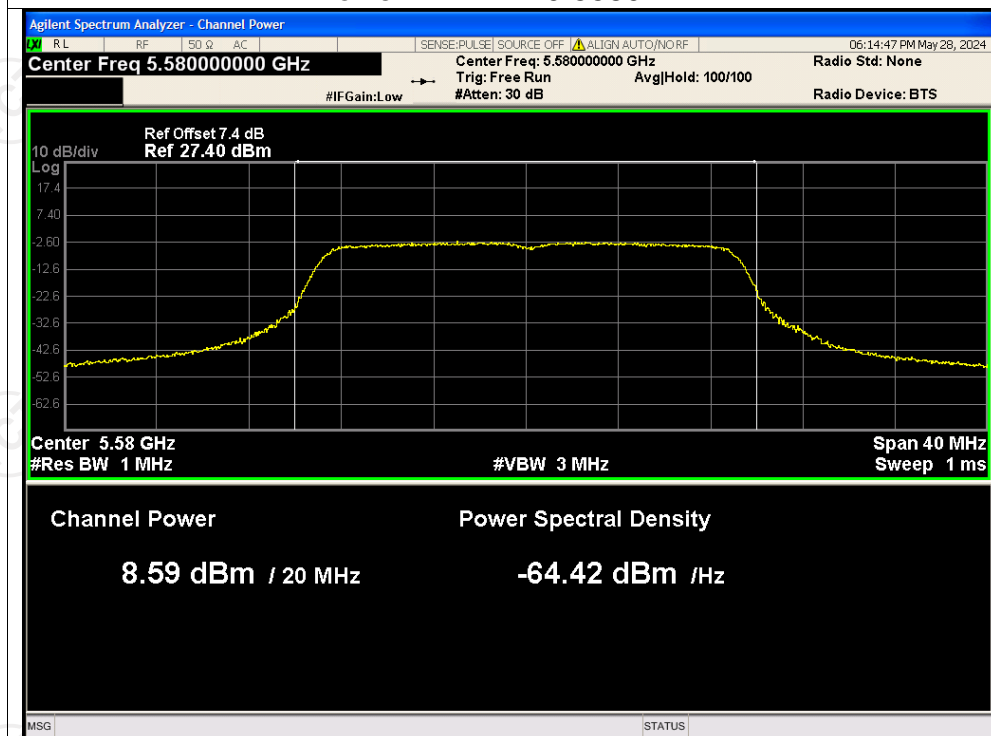




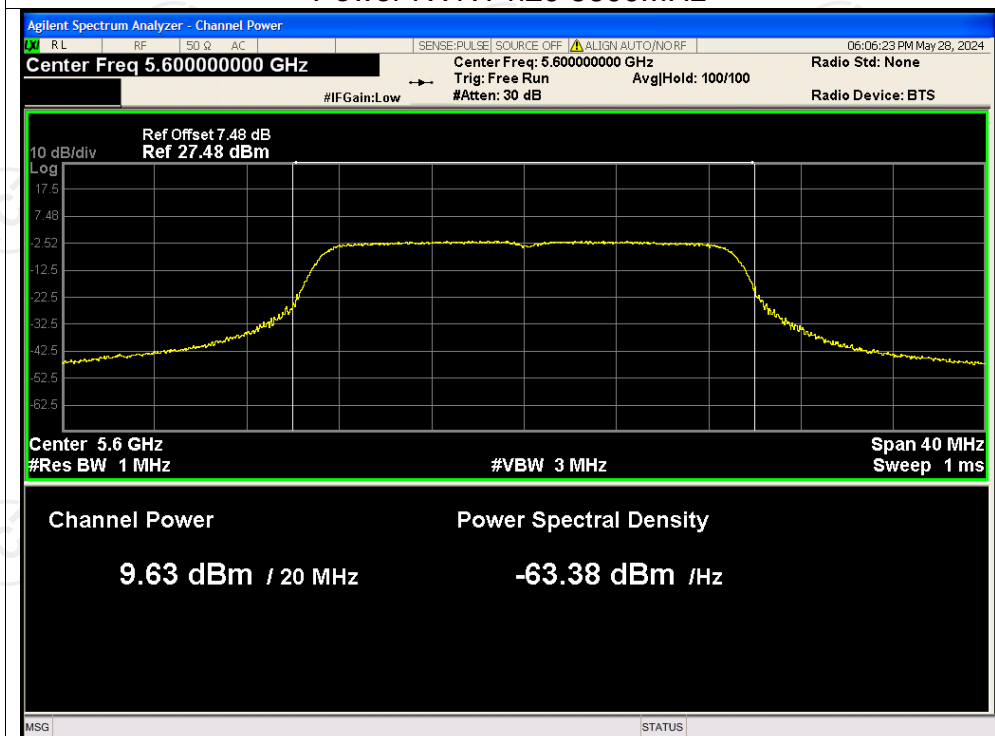
## Power NVNT n20 5500MHz



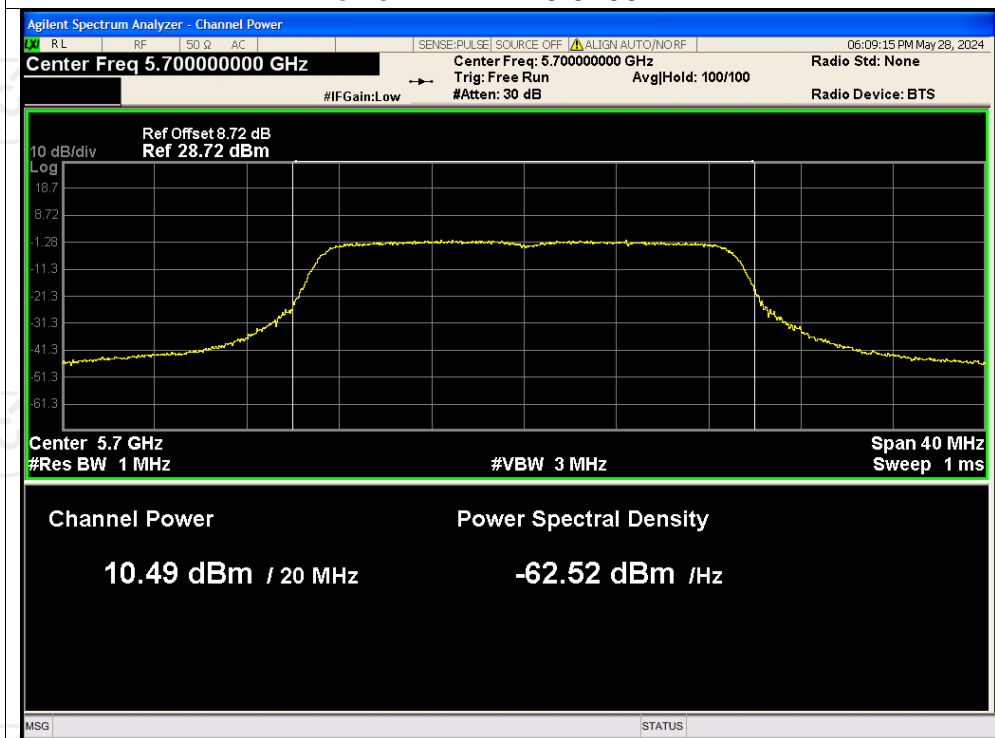
## Power NVNT n20 5580MHz



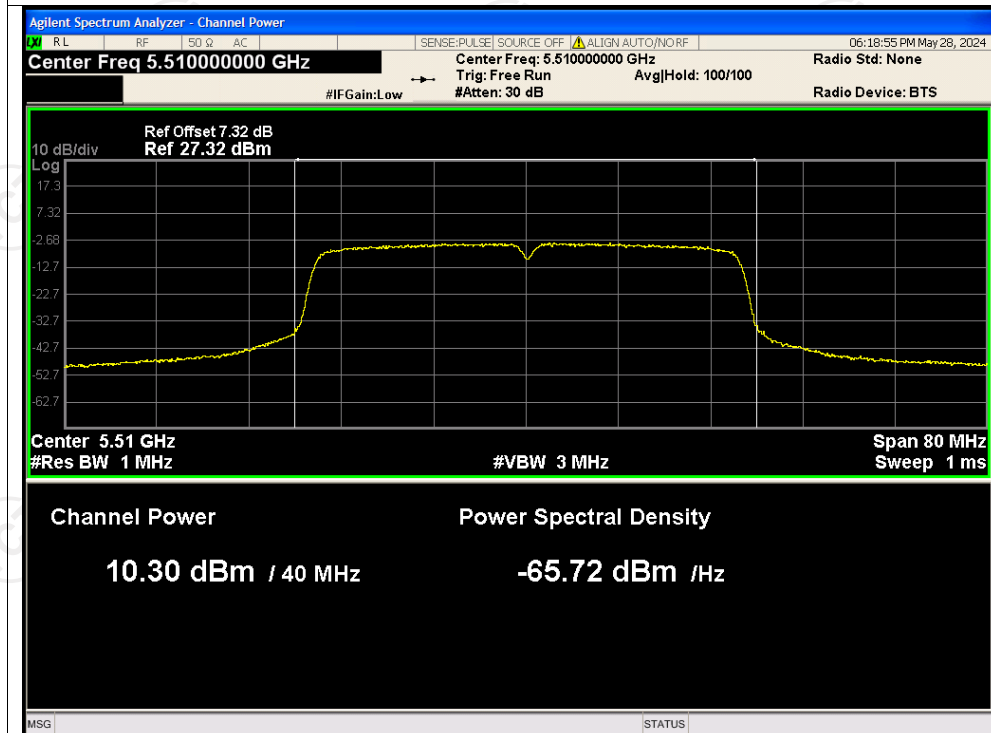
## Power NVNT n20 5600MHz



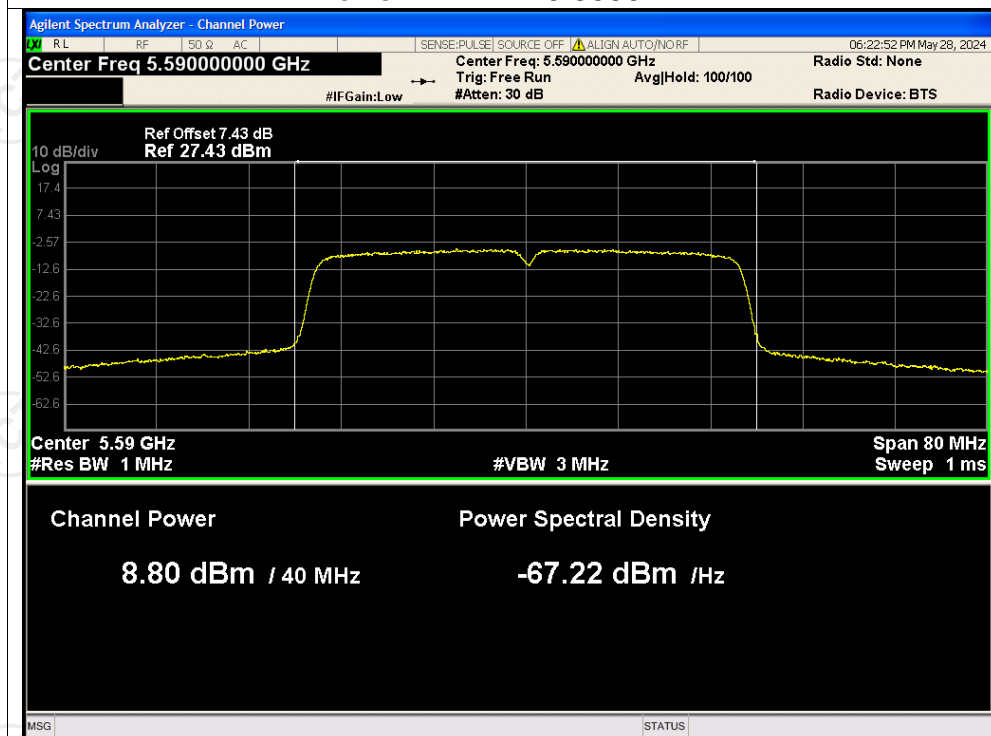
## Power NVNT n20 5700MHz

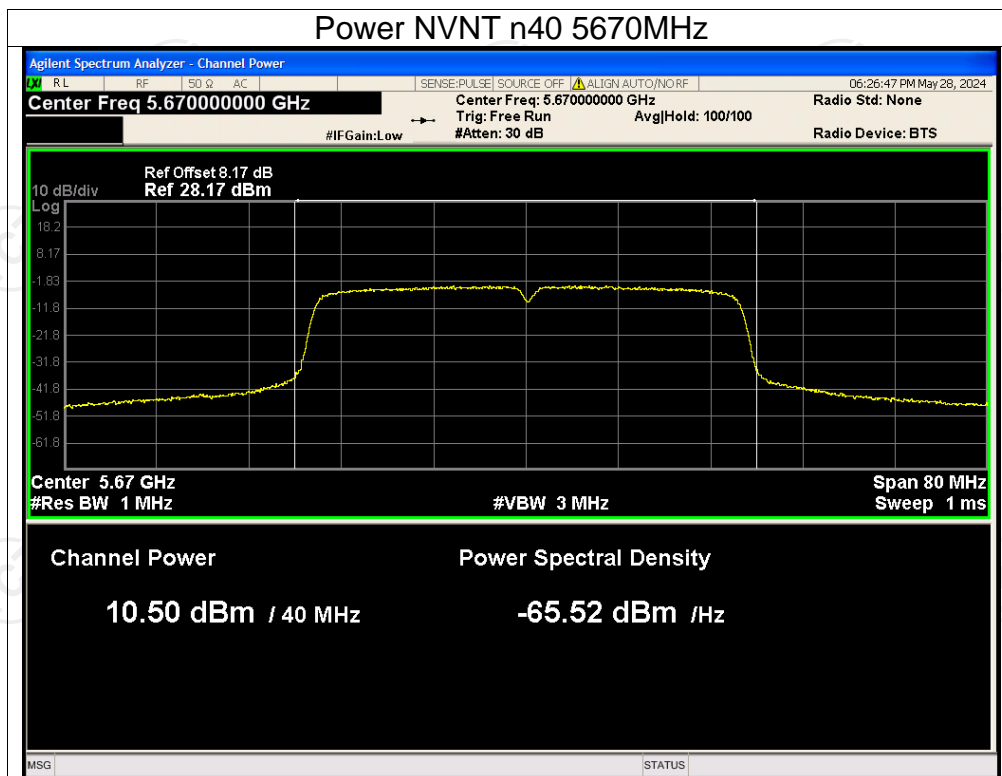


## Power NVNT n40 5510MHz



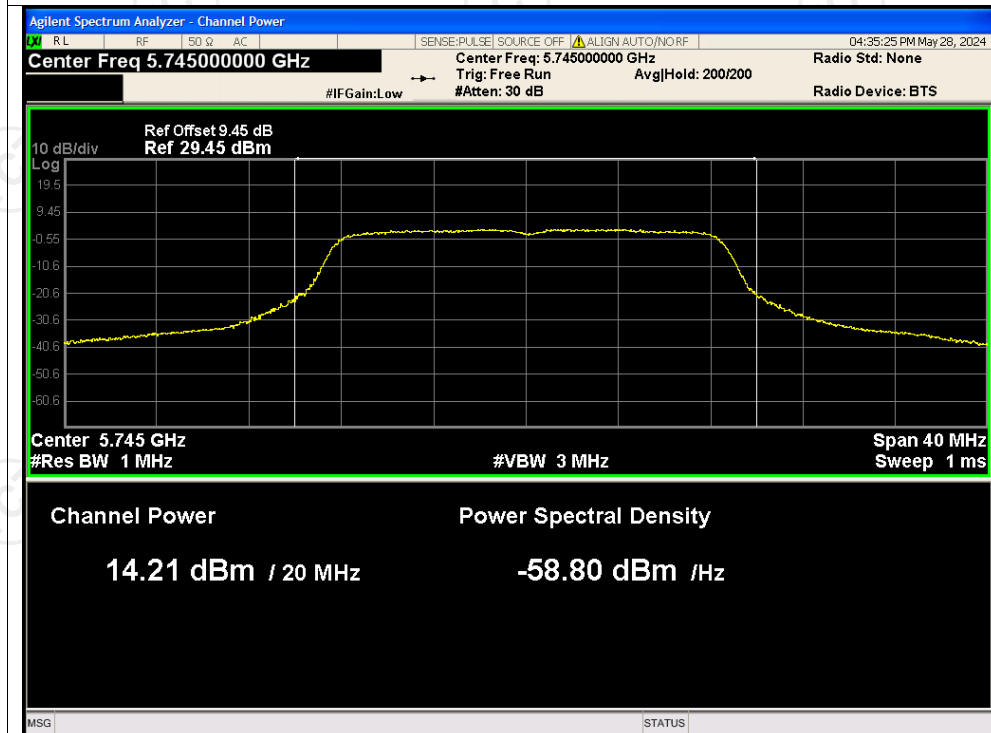
## Power NVNT n40 5590MHz



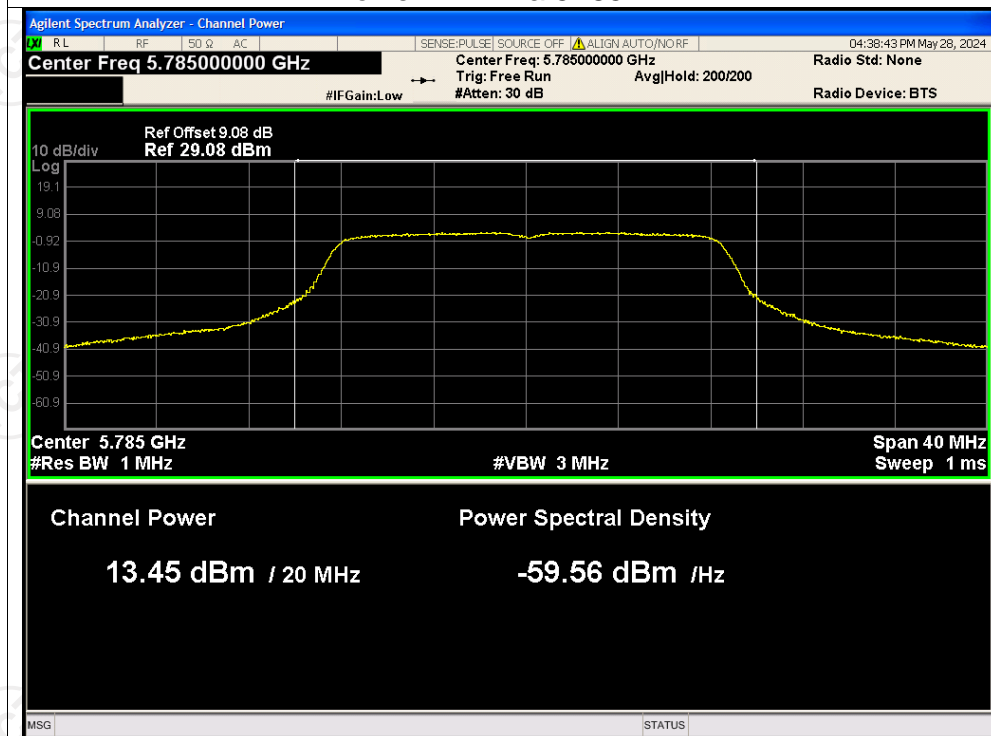


## Test Graphs

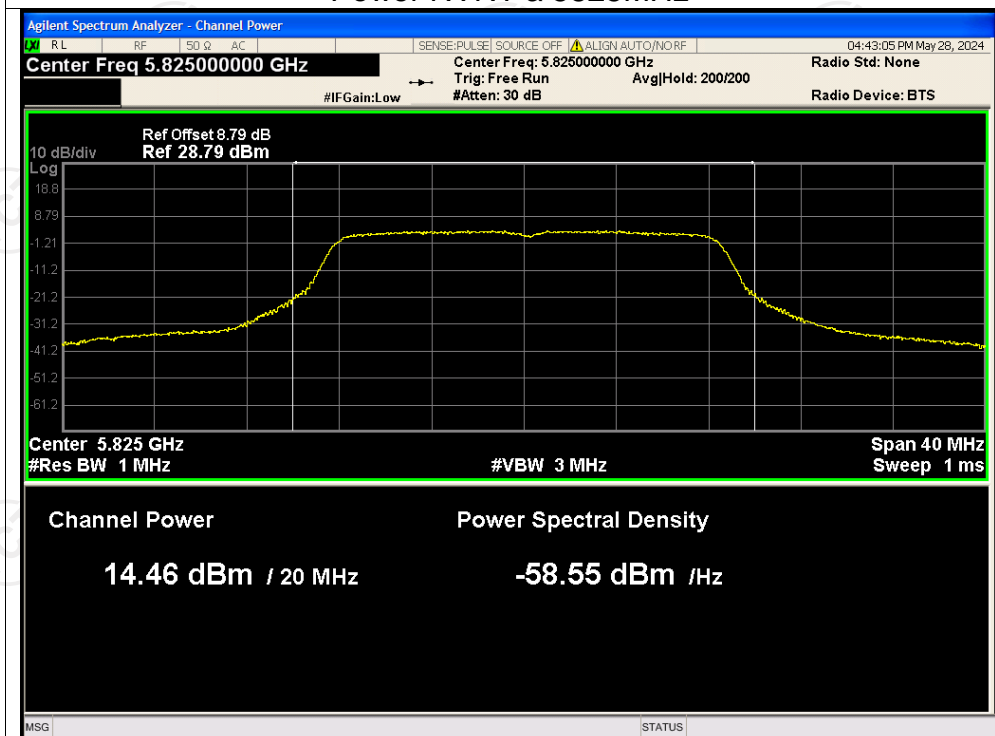
### Power NVNT a 5745MHz



### Power NVNT a 5785MHz



## Power NVNT a 5825MHz



## Power NVNT n20 5745MHz

