

TEST REPORT

FCC ID: 2AQOO-N14I34128

Product: Notebook

Model No.: WWN14I3-4SL128

**Additional Model No.: WWN14I3-4BK128, WWN14I3-4WH128,
WWN14I3-4PK128, WWN14I3-4BL128, WWN14I3-4T128, WWN14I3-4GO128**

Trade Mark: THOMSON

Report No.: TCT200928E027

Issued Date: Oct. 27, 2020

Issued for:

GROUPSFIT

80/84 route de la Liberation, PONTAULT COMBAULT 77340, France

Issued By:

Shenzhen Tongce Testing Lab.

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TABLE OF CONTENTS

1. Test Certification 3

2. Test Result Summary 4

3. EUT Description..... 5

4. General Information..... 7

 4.1. Test environment and mode..... 7

 4.2. Description of Support Units..... 8

5. Facilities and Accreditations 9

 5.1. Facilities 9

 5.2. Location 9

 5.3. Measurement Uncertainty..... 9

6. Test Results and Measurement Data 10

 6.1. Antenna requirement 10

 6.2. Conducted Emission..... 11

 6.3. Maximum Conducted Output Power 15

 6.4. 6dB Emission Bandwidth..... 18

 6.5. 26dB Bandwidth and 99% Occupied Bandwidth 19

 6.6. Power Spectral Density..... 20

 6.7. Band edge 22

 6.8. Unwanted Emission 31

 6.9. Frequency Stability Measurement 40

Appendix A: Test Result of Conducted Test

Appendix B: Photographs of Test Setup

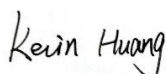
Appendix C: Photographs of EUT

1. Test Certification

Product:	Notebook
Model No.:	WWN14I3-4SL128
Additional Model No.:	WWN14I3-4BK128, WWN14I3-4WH128, WWN14I3-4PK128, WWN14I3-4BL128, WWN14I3-4T128, WWN14I3-4GO128
Trade Mark:	THOMSON
Applicant:	GROUPSFIT
Address:	80/84 route de la Liberation, PONTAULT COMBAULT 77340, France
Manufacturer:	GROUPSFIT
Address:	80/84 route de la Liberation, PONTAULT COMBAULT 77340, France
Date of Test:	Sep. 29, 2020 – Oct. 26, 2020
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2016 KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General U-NII Test Procedures New Rules v02r01

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:



Kevin Huang

Date:

Oct. 26, 2020

Reviewed By:



Beryl Zhao

Date:

Oct. 27, 2020

Approved By:



Tomsin

Date:

Oct. 27, 2020

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(a)	PASS
Radiated Emission	§15.407(a)	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. NA: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product:	Notebook
Model No.:	WWN14I3-4SL128
Additional Model No.:	WWN14I3-4BK128, WWN14I3-4WH128, WWN14I3-4PK128, WWN14I3-4BL128, WWN14I3-4T128, WWN14I3-4GO128
Trade Mark:	THOMSON
Operation Frequency:	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:	Internal Antenna
Antenna Gain:	2.2dBi
Power Supply:	Rechargeable Li-polymer Battery DC 7.6V
AC adapter:	Adapter Information: Model: JHD-AD065B-190250BA-A Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 19.0V, 2.5A, 47.5W
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

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

Test Frequency each of channel**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.

4. General Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)
<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

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting with modulation
-----------------	---

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

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.

5. Facilities and Accreditations

5.1. Facilities

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

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab.

The 3m Semi-anechoic chamber 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

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab.

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. 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	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

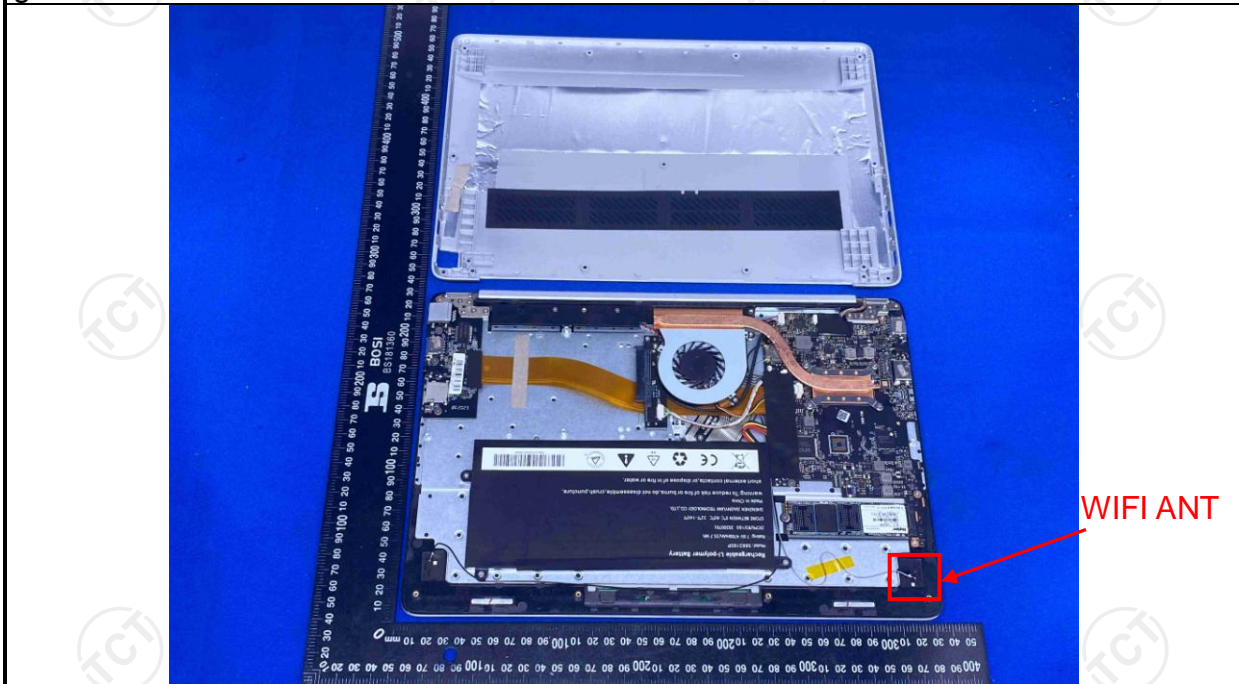
6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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15.203 requirement:
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:	
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The WIFI antenna is internal antenna which permanently attached, and the best case gain of the antenna is 2.2dBi.



6.2. Conducted Emission

6.2.1. 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:	Tx Mode														
Test Procedure:	<ol style="list-style-type: none"> 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. 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). 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														

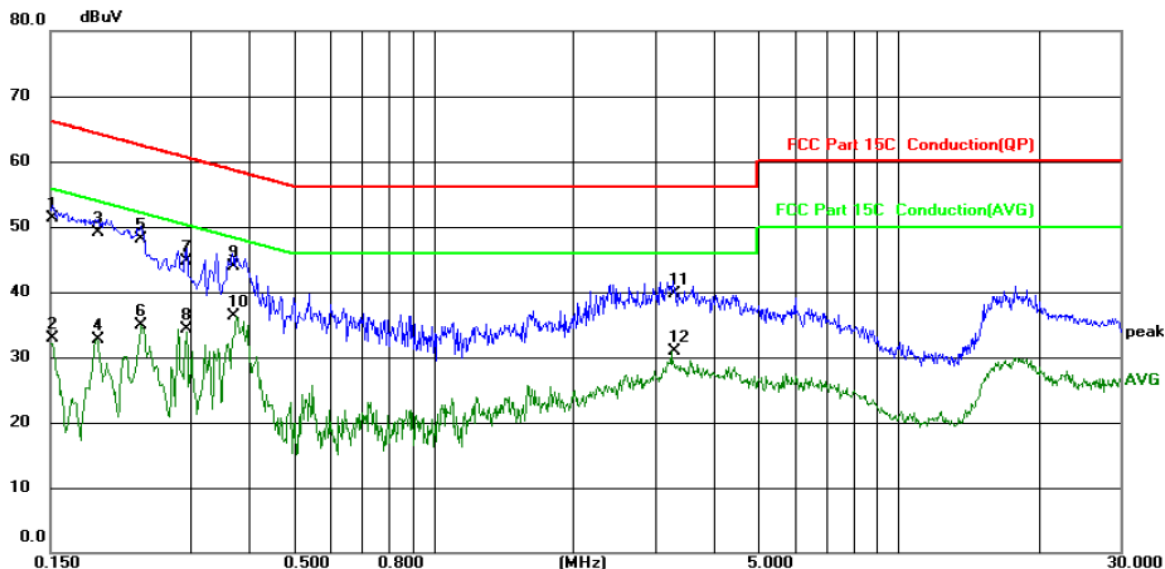
6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESCI3	100898	Jul. 27, 2021
LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2021
Line-5	TCT	CE-05	N/A	Sep. 02, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.2.3. Test data

Please refer to following diagram for individual
Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site: Phase: **L1** Temperature: 25 (C)
 Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %RH

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1514	41.03	10.22	51.25	65.92	-14.67	QP	
2		0.1514	22.74	10.22	32.96	55.92	-22.96	AVG	
3		0.1901	38.96	10.22	49.18	64.03	-14.85	QP	
4		0.1901	22.54	10.22	32.76	54.03	-21.27	AVG	
5		0.2353	37.79	10.23	48.02	62.26	-14.24	QP	
6		0.2353	24.60	10.23	34.83	52.26	-17.43	AVG	
7		0.2938	34.47	10.23	44.70	60.42	-15.72	QP	
8		0.2938	24.02	10.23	34.25	50.42	-16.17	AVG	
9		0.3700	33.73	10.22	43.95	58.50	-14.55	QP	
10	*	0.3700	26.06	10.22	36.28	48.50	-12.22	AVG	
11		3.2900	29.20	10.47	39.67	56.00	-16.33	QP	
12		3.2900	20.36	10.47	30.83	46.00	-15.17	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

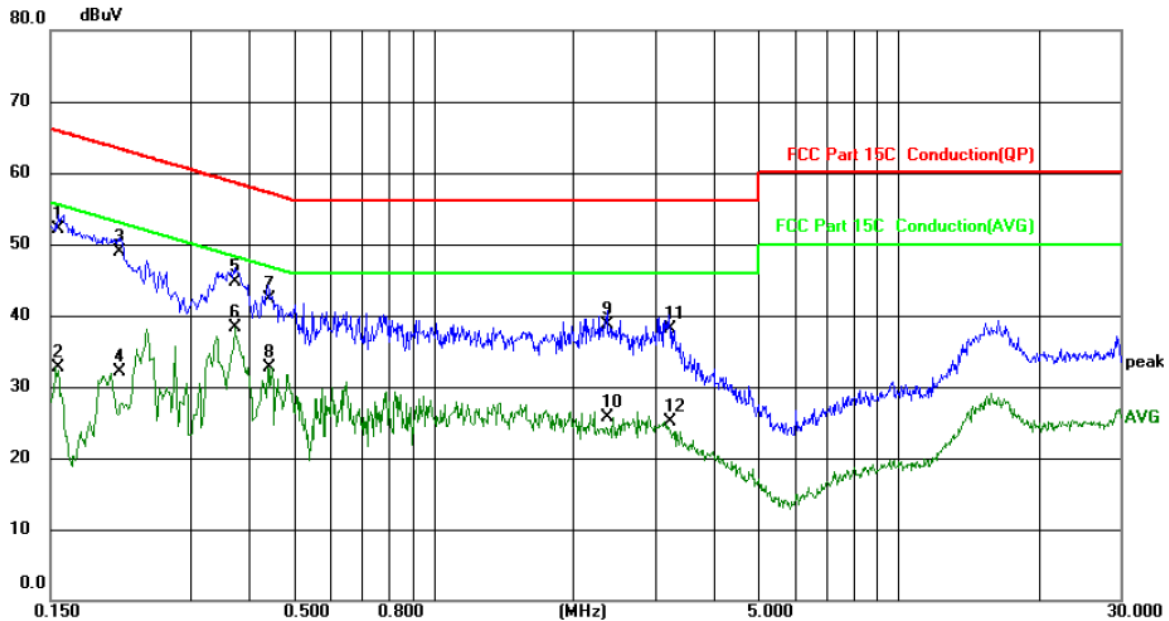
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

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: Phase: **N** Temperature: 25 (C)
 Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %RH

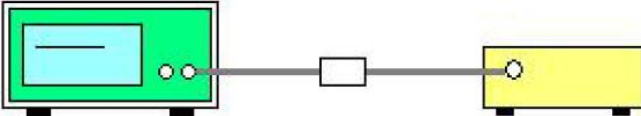
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1554	41.89	10.22	52.11	65.71	-13.60	QP	
2		0.1554	22.40	10.22	32.62	55.71	-23.09	AVG	
3		0.2116	38.68	10.23	48.91	63.14	-14.23	QP	
4		0.2116	21.90	10.23	32.13	53.14	-21.01	AVG	
5		0.3738	34.55	10.22	44.77	58.42	-13.65	QP	
6	*	0.3738	28.15	10.22	38.37	48.42	-10.05	AVG	
7		0.4420	32.08	10.22	42.30	57.02	-14.72	QP	
8		0.4420	22.39	10.22	32.61	47.02	-14.41	AVG	
9		2.3660	28.20	10.45	38.65	56.00	-17.35	QP	
10		2.3660	15.21	10.45	25.66	46.00	-20.34	AVG	
11		3.2219	27.63	10.47	38.10	56.00	-17.90	QP	
12		3.2219	14.59	10.47	25.06	46.00	-20.94	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.

6.3. Maximum Conducted Output Power

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

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
Power Meter	Agilent	E4418B	GB43312526	Sep. 21, 2021
Power Sensor	Agilent	E9301A	MY41497725	Sep. 21, 2021
4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	N/A	Sep. 02, 2021
Combiner Box	Ascentest	AT890-RFB	N/A	Sep. 02, 2021


Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

Configuration Band 3 (5745 - 5825 MHz) / Antenna 0+Antenna 1						
Mode	Test channel	Maximum Conducted (Average) Output Power (dBm)			Limit (dBm)	Result
		Ant0	Ant1	Total		
11a	CH149	8.88	8.38	/	30	PASS
11a	CH157	10.61	9.47	/	30	PASS
11a	CH165	10.80	9.14	/	30	PASS
11n(HT20)	CH149	11.00	10.22	13.64	30	PASS
11n(HT20)	CH157	11.56	10.02	13.87	30	PASS
11n(HT20)	CH165	11.73	9.81	13.89	30	PASS
11n(HT40)	CH151	8.32	4.44	9.81	30	PASS
11n(HT40)	CH159	8.65	4.14	9.97	30	PASS
11ac(VHT20)	CH149	11.10	10.11	13.64	30	PASS
11ac(VHT20)	CH157	11.51	10.00	13.83	30	PASS
11ac(VHT20)	CH165	11.68	9.75	13.83	30	PASS
11ac(VHT40)	CH151	8.37	4.48	9.86	30	PASS
11ac(VHT40)	CH159	8.72	4.13	10.02	30	PASS
11ac(VHT80)	CH155	8.55	7.22	10.95	30	PASS

6.4. 6dB Emission Bandwidth

6.4.1. 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>A block diagram showing a green Spectrum Analyzer connected via a cable to a yellow EUT (Equipment Under Test). The Spectrum Analyzer is on the left, and the EUT is on the right. A small white box representing a combiner is located between them.</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 C2. Set to the maximum power setting and enable the EUT transmit continuously.3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.4. Measure and record the results in the test report.
Test Result:	PASS


6.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	N/A	Sep. 02, 2021
Combiner Box	Ascentest	AT890-RFB	N/A	Sep. 02, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.5. 26dB Bandwidth and 99% Occupied Bandwidth

6.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
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) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS


6.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	N/A	Sep. 02, 2021
Combiner Box	Ascentest	AT890-RFB	N/A	Sep. 02, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.6. Power Spectral Density

6.6.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤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 The e.i,r,p spectral density for Band 1 5150MHz – 5250 MHz should not exceed 10dBm/MHz
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. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 500 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level. 4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

6.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	N/A	Sep. 02, 2021
Combiner Box	Ascentest	AT890-RFB	N/A	Sep. 02, 2021

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.6.3. Test data

Mode	Test channel	Power Spectral Density			Limit (dBm/500kHz)	Result
		Ant0	Ant1	Total		
11a	CH149	-4.36	-5.18	/	30	PASS
11a	CH157	-3.40	-4.85	/	30	PASS
11a	CH165	-3.26	-4.98	/	30	PASS
11n(HT20)	CH149	-3.46	-4.31	-0.85	30	PASS
11n(HT20)	CH157	-2.82	-4.42	-0.54	30	PASS
11n(HT20)	CH165	-2.31	-3.95	-0.04	30	PASS
11n(HT40)	CH151	-4.36	-5.18	-1.74	30	PASS
11n(HT40)	CH159	-3.40	-4.85	-1.05	30	PASS
11ac(VHT20)	CH149	-3.32	-4.28	-0.76	30	PASS
11ac(VHT20)	CH157	-2.86	-4.46	-0.58	30	PASS
11ac(VHT20)	CH165	-2.66	-4.57	-0.50	30	PASS
11ac(VHT40)	CH151	-8.71	-10.13	-6.35	30	PASS
11ac(VHT40)	CH159	-8.47	-10.53	-6.37	30	PASS
11ac(VHT80)	CH155	-10.68	-12.00	-8.28	30	PASS

Note: 1. The total PSD method used the sum spectra maxima across the outputs.

2. $G_{ANT}=2.2\text{dBi}$, Array Gain= $10\log(N_{ANT}/N_{SS})=3.01\text{dBi}$, Directional Gain= $G_{ANT} + \text{Array Gain}=5.21\text{dBi}$,
5.21dBi < 6dBi so limit=30dBm/500kHz

3. RBW is 510K, so limit= $30-(10\log(500/510))=30.08\text{dbm}/510\text{KHz}$.

6.7. Band edge

6.7.1. 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 table labeled 'Table' holds an 'EUT' (Equipment Under Test) and a 'Table' (likely a rotating table). A '3m' distance is marked between the EUT and a '400 Antenna' mounted on an 'Antenna Tower'. A 'Ground Reference Plane' is shown below the antenna. On the right, a 'Test Receiver' system is connected to the antenna, including a 'Pre-Amplifier' and a 'Controller'. A '3m' distance is also marked between the antenna and the receiver system.</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 																				

	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, quasipeak or average method as specified and then reported in a data sheet.
Test Result:	PASS

6.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHWARZ	ESIB7	100197	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHWARZ	FSQ40	200061	Sep. 11, 2021
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 27, 2020
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 02, 2021
Line-4	TCT	RE-high-04	N/A	Sep. 02, 2021
Line-8	TCT	RE-01	N/A	Jul. 27, 2021
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data

802.11 a	CH	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
Band 3	Lowest	5725	62.43	5.82	68.25	112.2	/	-43.95	H
		5725	59.82	5.82	65.64	112.2	/	-46.56	V
	Highest	5850	68.17	6.52	74.69	112.2	/	-37.51	H
		5850	61.22	6.52	67.74	112.2	/	-44.46	V

Remark: Factor(dB)=Ant. Factor + Cable Loss-Amp. Factor

802.11 n HT20	CH	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
Band 3	Lowest	5725	62.45	8.21	70.66	112.2	/	-41.54	H
		5725	61.69	8.21	69.90	112.2	/	-42.30	V
	Highest	5850	60.18	8.87	69.05	112.2	/	-43.15	H
		5850	62.45	8.87	71.32	112.2	/	-40.88	V

Remark: Factor(dB)=Ant. Factor + Cable Loss-Amp. Factor

802.11 n HT40	CH	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
Band 3	Lowest	5725	62.10	5.82	67.92	112.2	/	-44.28	H
		5725	59.77	5.82	65.59	112.2	/	-46.61	V
	Highest	5850	60.94	6.52	67.46	112.2	/	-44.74	H
		5850	61.22	6.52	67.74	112.2	/	-44.46	V

Remark: Factor(dB)=Ant. Factor + Cable Loss-Amp. Factor

802.11 ac HT20	CH	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
Band 3	Lowest	5725	63.30	8.21	71.51	112.2	/	-40.69	H
		5725	62.98	8.21	71.19	112.2	/	-41.01	V
	Highest	5850	62.15	8.87	71.02	112.2	/	-41.18	H
		5850	60.64	8.87	69.51	112.2	/	-42.69	V

Remark: Factor(dB)=Ant. Factor + Cable Loss-Amp. Factor

802.11 ac HT40	CH	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
Band 3	Lowest	5725	64.55	5.82	70.37	112.2	/	-41.83	H
		5725	58.28	5.82	64.10	112.2	/	-48.10	V
	Highest	5850	65.06	6.52	71.58	112.2	/	-40.62	H
		5850	62.85	6.52	69.37	112.2	/	-42.83	V

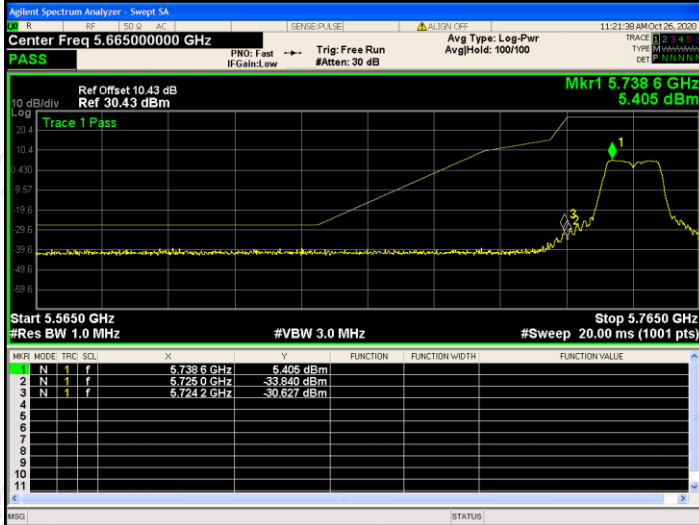
Remark: Factor(dB)=Ant. Factor + Cable Loss-Amp. Factor

802.11 ac HT80	CH	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
Band 3	Lowest	5725	62.17	5.82	67.99	112.2	/	-44.21	H
		5725	60.01	5.82	65.83	112.2	/	-46.37	V
	Highest	5850	61.59	6.52	68.11	112.2	/	-44.09	H
		5850	60.30	6.52	66.82	112.2	/	-45.38	V

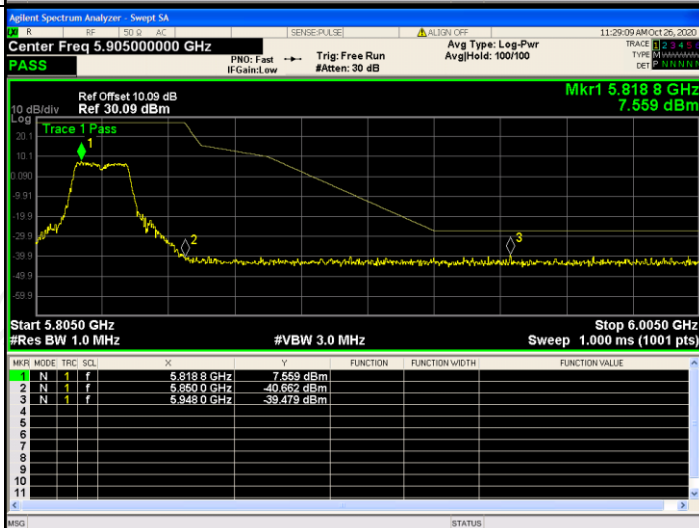
Remark: Factor(dB)=Ant. Factor + Cable Loss-Amp. Factor

Band 3 Band-edge for RF Conducted Emissions

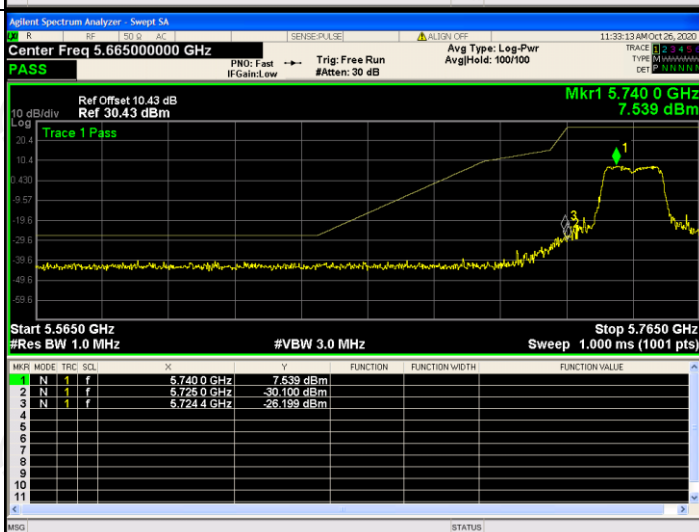
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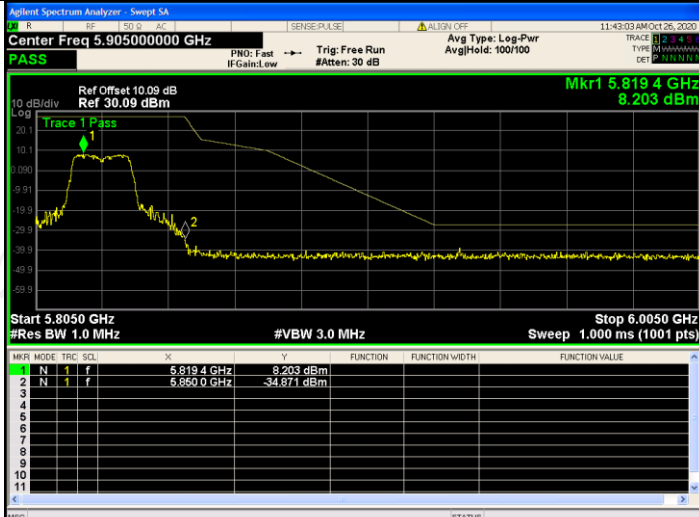
802.11a
/HCH



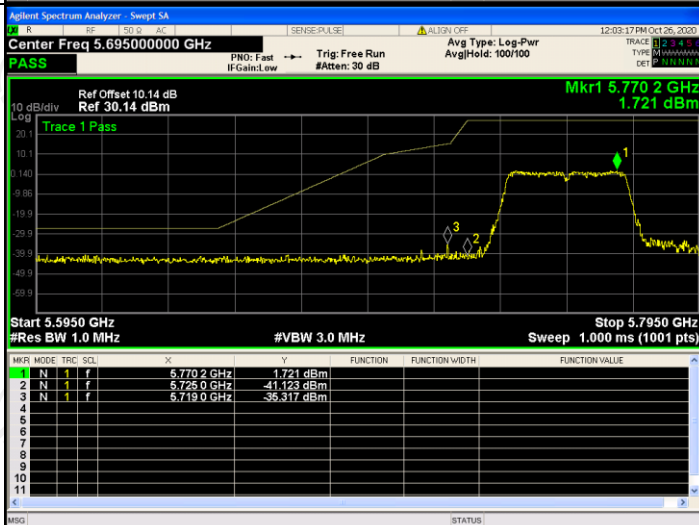
802.11n
HT20/LCH



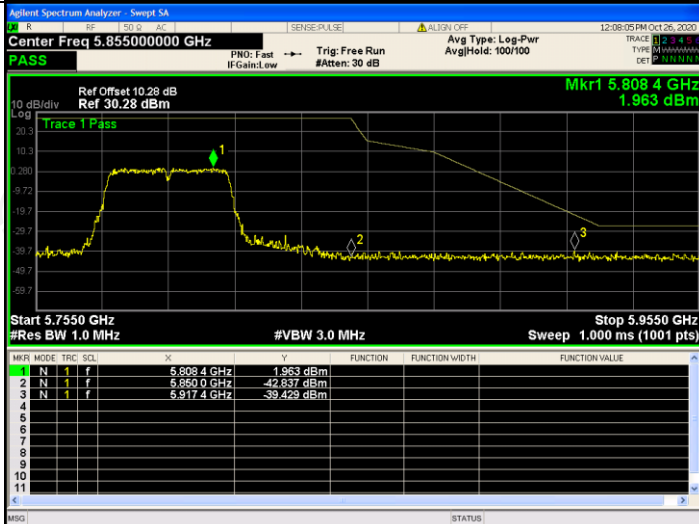
802.11n
HT20/HCH



802.11n
HT40/LCH

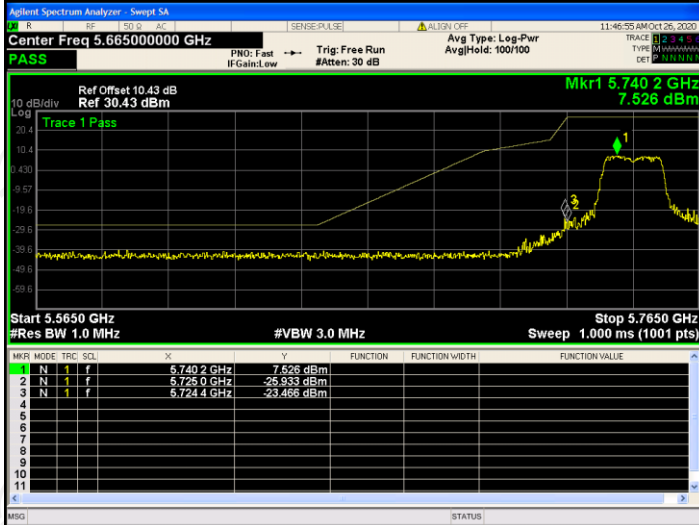


802.11n
HT40/HCH

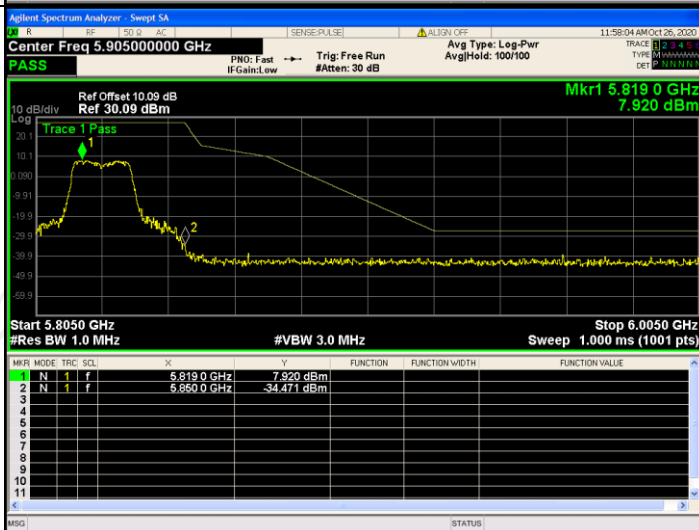


Band 3 Band-edge for RF Conducted Emissions

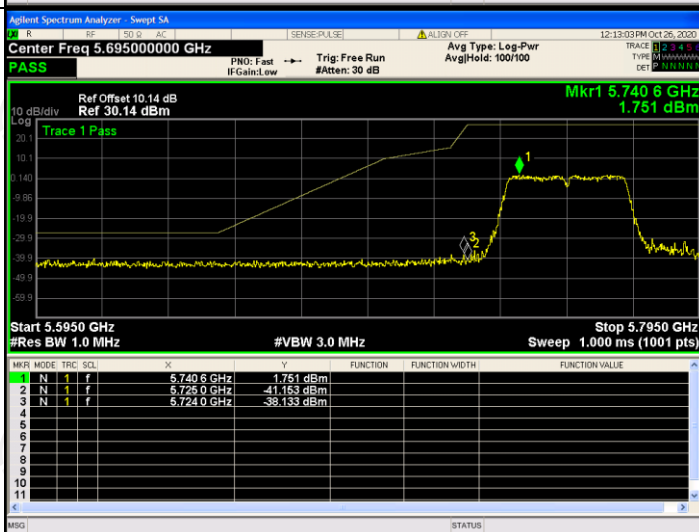
802.11ac
HT20/LCH



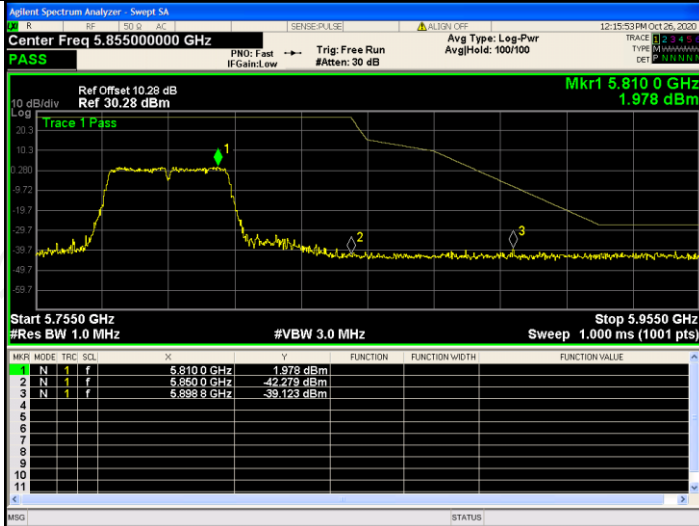
802.11ac
HT20/HCH



802.11ac
HT40/LCH



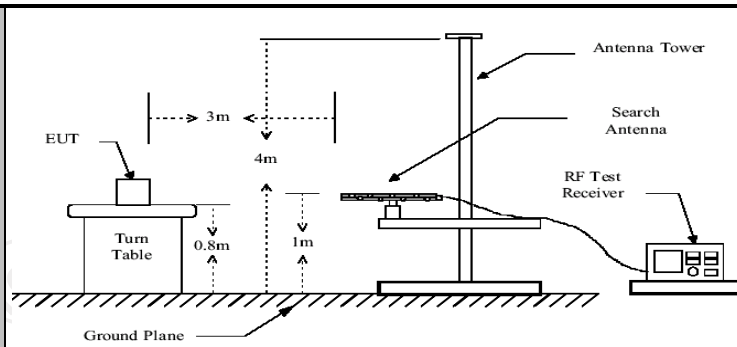
802.11ac
HT40/HCH



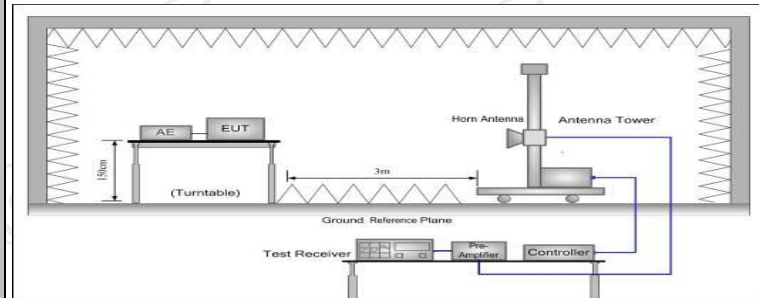
6.8. Unwanted Emission

6.8.1. 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,				
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)		
	0.009-0.490	2400/F(KHz)	300		
	0.490-1.705	24000/F(KHz)	30		
	1.705-30	30	30		
	30-88	100	3		
	88-216	150	3		
	216-960	200	3		
	Above 960	500	3		
	Frequency	Limit (dBuV/m @3m)	Detector		
Above 1G	74.0	Peak			
	54.0	Average			
Test setup:	For radiated emissions below 30MHz				
	<p>Distance = 3m</p> <p>0.8m</p> <p>Turn table</p> <p>1m</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 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

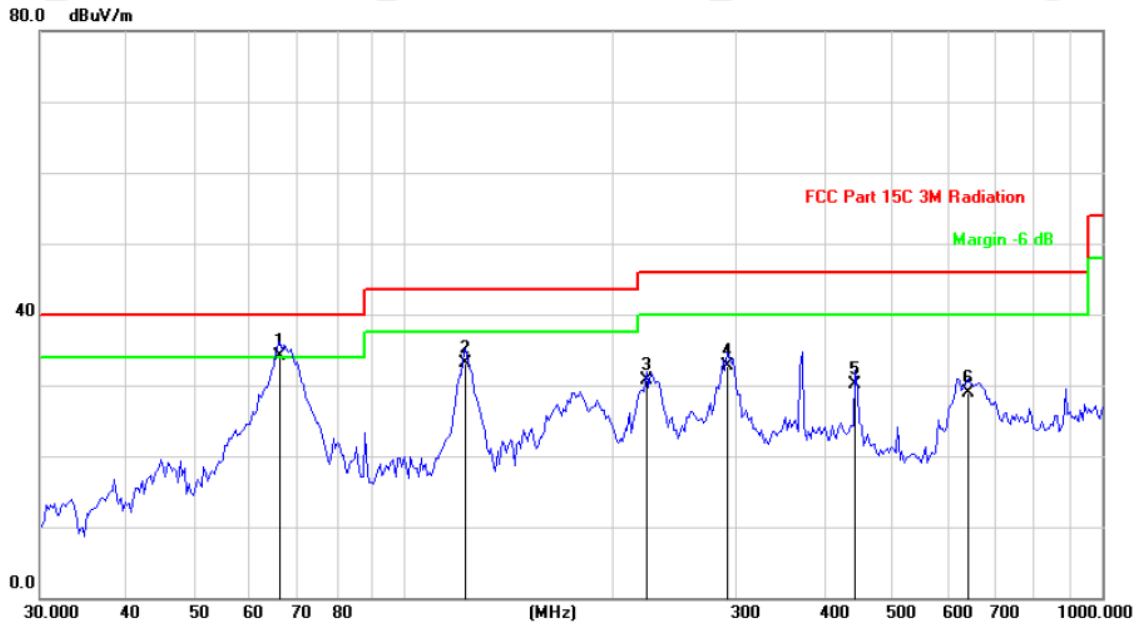
6.8.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 27, 2020
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 04, 2022
Antenna Mast	Keleto	RE-AM	N/A	N/A
Line-4	TCT	RE-high-04	N/A	Sep. 02, 2021
Line-8	TCT	RE-01	N/A	Jul. 27, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

6.8.3. Test Data

Please refer to following diagram for individual
Below 1GHz

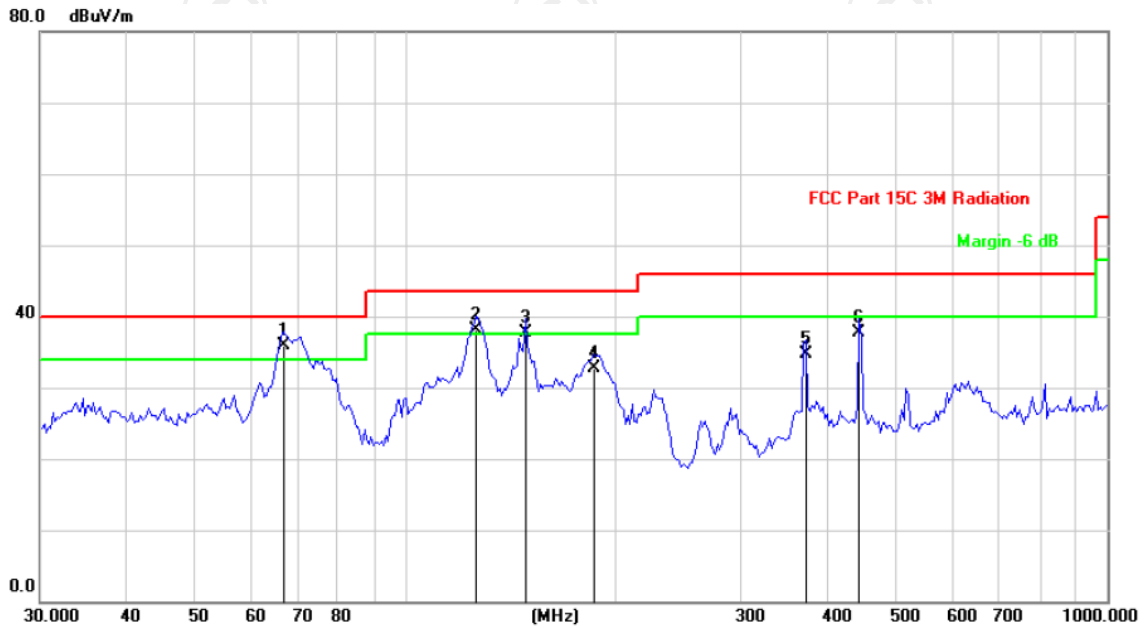
Horizontal:



Site: Polarization: *Horizontal* Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	66.3713	48.58	-14.45	34.13	40.00	-5.87	QP
2		122.3187	45.46	-12.44	33.02	43.50	-10.48	QP
3		222.2803	44.17	-13.37	30.80	46.00	-15.20	QP
4		290.3170	44.01	-11.24	32.77	46.00	-13.23	QP
5		442.5722	38.48	-8.42	30.06	46.00	-15.94	QP
6		642.2921	34.53	-5.61	28.92	46.00	-17.08	QP

Vertical:



Site: Polarization: **Vertical** Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1	*	66.8395	50.50	-14.61	35.89	40.00	-4.11	QP
2	!	125.8058	51.98	-13.79	38.19	43.50	-5.31	QP
3	!	147.8745	53.99	-16.22	37.77	43.50	-5.73	QP
4		185.1622	47.47	-14.67	32.80	43.50	-10.70	QP
5		371.2678	44.04	-9.37	34.67	46.00	-11.33	QP
6		442.5722	46.11	-8.42	37.69	46.00	-8.31	QP

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 (Highest channel and 802.11n(HT20)) was submitted only.

Modulation Type: Band 3									
11a(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	40.35	---	8.09	48.44	---	74	54	-5.56
17235	H	37.47	---	9.67	47.14	---	74	54	-6.86
---	H	---	---	---	---	---	---	---	---
11490	V	42.16	---	8.09	50.25	---	74	54	-3.75
17235	V	39.39	---	9.67	49.06	---	74	54	-4.94
---	V	---	---	---	---	---	---	---	---

11a(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	42.22	---	8.10	50.32	---	74	54	-3.68
17355	H	41.04	---	9.65	50.69	---	74	54	-3.31
---	H	---	---	---	---	---	---	---	---
11570	V	39.97	---	8.10	48.07	---	74	54	-5.93
17355	V	37.02	---	9.65	46.67	---	74	54	-7.33
---	V	---	---	---	---	---	---	---	---

11a(HT20) CH161: 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	40.38	---	8.12	48.50	---	74	54	-5.50
17475	H	38.94	---	9.62	48.56	---	74	54	-5.44
---	H	---	---	---	---	---	---	---	---
11650	V	41.26	---	8.12	49.38	---	74	54	-4.62
17475	V	38.89	---	9.62	48.51	---	74	54	-5.49
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH151: 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)			
11510	H	40.98	---	8.09	49.07	---	74	54	-4.93
17265	H	37.74	---	9.67	47.41	---	74	54	-6.59
---	H	---	---	---	---	---	---	---	---
11510	V	41.62	---	8.09	49.71	---	74	54	-4.29
17265	V	37.44	---	9.67	47.11	---	74	54	-6.89
---	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	41.02	---	8.10	49.12	---	74	54	-4.88
17355	H	38.19	---	9.65	47.84	---	74	54	-6.16
---	H	---	---	---	---	---	---	---	---
11570	V	40.18	---	8.10	48.28	---	74	54	-5.72
17355	V	37.64	---	9.65	47.29	---	74	54	-6.71
---	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	39.66	---	8.12	47.78	---	74	54	-6.22
17475	H	36.40	---	9.62	46.02	---	74	54	-7.98
---	H	---	---	---	---	---	---	---	---
11650	V	40.22	---	8.12	48.34	---	74	54	-5.66
17475	V	38.75	---	9.62	48.37	---	74	54	-5.63
---	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	42.23	---	8.09	50.32	---	74	54	-3.68
17265	H	39.98	---	9.67	49.65	---	74	54	-4.35
---	H	---	---	---	---	---	---	---	---
11510	V	42.28	---	8.09	50.37	---	74	54	-3.63
17265	V	39.40	---	9.67	49.07	---	74	54	-4.93
---	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	41.02	---	8.10	49.12	---	74	54	-4.88
17385	H	39.56	---	9.65	49.21	---	74	54	-4.79
---	H	---	---	---	---	---	---	---	---
11590	V	41.30	---	8.10	49.40	---	74	54	-4.60
17385	V	39.56	---	9.65	49.21	---	74	54	-4.79
---	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	41.86	---	8.09	49.95	---	74	54	-4.05
17235	H	39.40	---	9.67	49.07	---	74	54	-4.93
---	H	---	---	---	---	---	---	---	---
11490	V	41.39	---	8.09	49.48	---	74	54	-4.52
17235	V	38.48	---	9.67	48.15	---	74	54	-5.85
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH157: 5785MHz									
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)			
11570	H	39.92	---	8.10	48.02	---	74	54	-5.98
17355	H	38.53	---	9.65	48.18	---	74	54	-5.82
---	H	---	---	---	---	---	---	---	---
11570	V	39.42	---	8.10	47.52	---	74	54	-6.48
17355	V	37.67	---	9.65	47.32	---	74	54	-6.68
---	V	---	---	---	---	---	---	---	---

11ac(VHT20) CH165: 5825MHz									
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)			
11650	H	41.85	---	8.12	49.97	---	74	54	-4.03
17475	H	39.57	---	9.62	49.19	---	74	54	-4.81
---	H	---	---	---	---	---	---	---	---
11650	V	41.21	---	8.12	49.33	---	74	54	-4.67
17475	V	39.70	---	9.62	49.32	---	74	54	-4.68
---	V	---	---	---	---	---	---	---	---

11ac(VHT40) CH151: 5755MHz									
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)			
11510	H	40.99	---	8.09	49.08	---	74	54	-4.92
17265	H	39.07	---	9.67	48.74	---	74	54	-5.26
---	H	---	---	---	---	---	---	---	---
11510	V	41.63	---	8.09	49.72	---	74	54	-4.28
17265	V	38.54	---	9.67	48.21	---	74	54	-5.79
---	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	41.35	---	8.10	49.45	---	74	54	-4.55
17385	H	38.97	---	9.65	48.62	---	74	54	-5.38
---	H	---	---	---	---	---	---	---	---
11590	V	41.54	---	8.10	49.64	---	74	54	-4.36
17385	V	39.76	---	9.65	49.41	---	74	54	-4.59
---	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	41.46	---	8.09	49.55	---	74	54	-4.45
17325	H	36.80	---	9.67	46.47	---	74	54	-7.53
---	H	---	---	---	---	---	---	---	---
11550	V	41.92	---	8.09	50.01	---	74	54	-3.99
17325	V	38.84	---	9.67	48.51	---	74	54	-5.49
---	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.

6.9. Frequency Stability Measurement

6.9.1. 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 Antenna 0 and Antenna 1, the worst case was found. Only the test data of Antenna 0 was shown in this report.

Test plots as follows:

Test mode:		802.11ac(VHT20)	Frequency(MHz):	5745
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	7.6V	5745.0012	1200	PASS
35		5745.0017	1700	PASS
25		5744.9974	-2600	PASS
15		5744.9979	-2100	PASS
5		5745.0023	2300	PASS
0		5745.0015	1500	PASS
20		9.6	5745.0020	2000
	7.6	5745.0018	1800	PASS
	6.6	5745.0021	2100	PASS

Test mode:		802.11ac(VHT20)	Frequency(MHz):	5785
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	7.6V	5785.0060	6000	PASS
35		5785.0054	5400	PASS
25		5785.0047	4700	PASS
15		5785.0058	5800	PASS
5		5785.0043	4300	PASS
0		5785.0049	4900	PASS
20		9.6	5785.0036	3600
	7.6	5785.0033	3300	PASS
	6.6	5784.9974	-2600	PASS

Test mode:		802.11ac(VHT20)	Frequency(MHz):	5825
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	7.6V	5824.9987	-1300	PASS
35		5825.0035	3500	PASS
25		5824.9974	-2600	PASS
15		5824.9991	-900	PASS
5		5825.0016	1600	PASS
0		5825.0024	2400	PASS
20		9.6	5825.0027	2700
	7.6	5824.9996	-400	PASS
	6.6	5825.0013	1300	PASS

Test mode:		802.11ac(VHT40)	Frequency(MHz):	5755
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	7.6V	5754.9971	-2900	PASS
35		5755.0025	2500	PASS
25		5755.0018	1800	PASS
15		5755.0033	3300	PASS
5		5755.0029	2900	PASS
0		5755.0041	4100	PASS
20		9.6	5755.0036	3600
	7.6	5755.0014	1400	PASS
	6.6	5755.0027	2700	PASS

Test mode:		802.11ac(VHT40)	Frequency(MHz):	5795
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	7.6V	5794.9985	-1500	PASS
35		5794.9946	-5400	PASS
25		5795.0027	2700	PASS
15		5795.0022	2200	PASS
5		5795.0014	1400	PASS
0		5795.0036	3600	PASS
20		9.6	5795.0017	1700
	7.6	5794.9988	-1200	PASS
	6.6	5795.0046	4600	PASS

Test mode:		802.11ac(VHT80)	Frequency(MHz):	5775
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	7.6V	5774.9869	-13100	PASS
35		5775.0027	2700	PASS
25		5775.0053	5300	PASS
15		5774.9934	-6600	PASS
5		5774.9928	-7200	PASS
0		5774.9902	-9800	PASS
20		9.6	5775.0085	8500
	7.6	5775.0040	4000	PASS
	6.6	5775.0016	1600	PASS

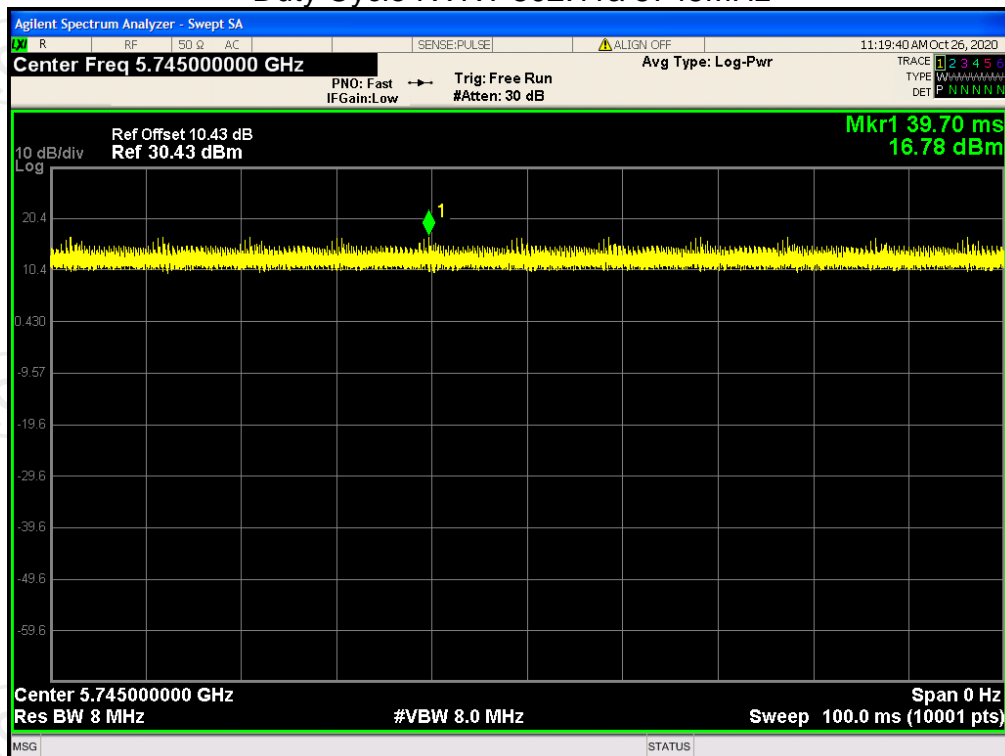
Appendix A: Test Result of Conducted Test

Antenna0:

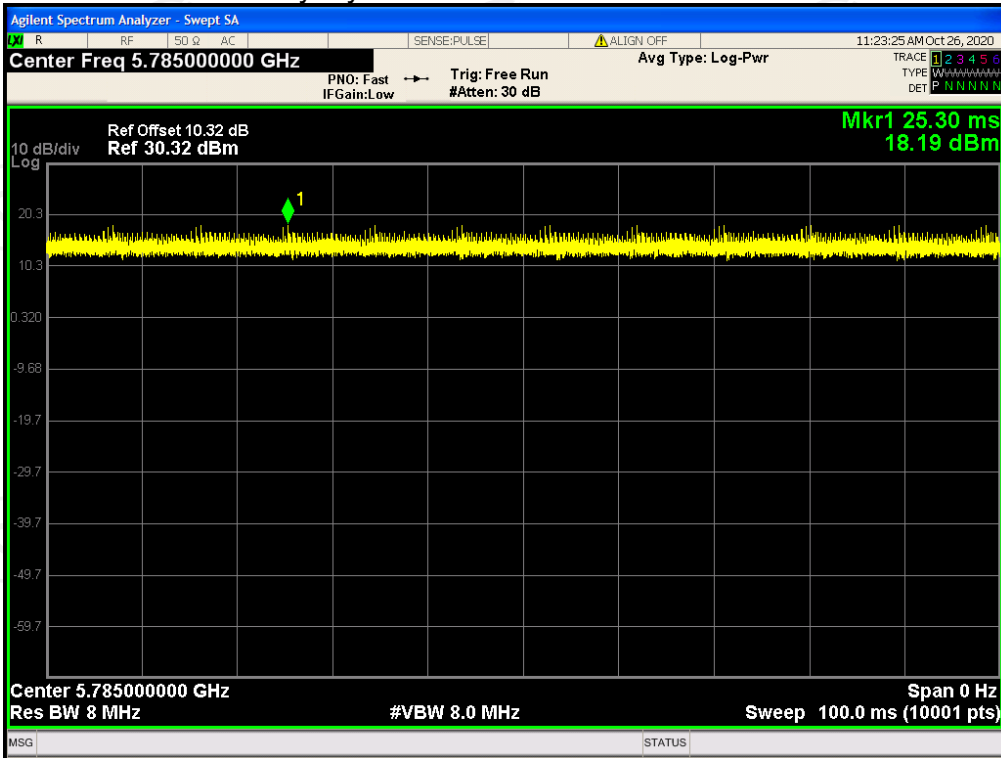
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11a	5745	100	0
NVNT	802.11a	5785	100	0
NVNT	802.11a	5825	100	0
NVNT	802.11ac20	5745	100	0
NVNT	802.11ac20	5785	100	0
NVNT	802.11ac20	5825	100	0
NVNT	802.11ac40	5755	100	0
NVNT	802.11ac40	5795	100	0
NVNT	802.11ac80	5775	100	0
NVNT	802.11n(HT20)	5745	100	0
NVNT	802.11n(HT20)	5785	100	0
NVNT	802.11n(HT20)	5825	100	0
NVNT	802.11n(HT40)	5755	100	0
NVNT	802.11n(HT40)	5795	100	0

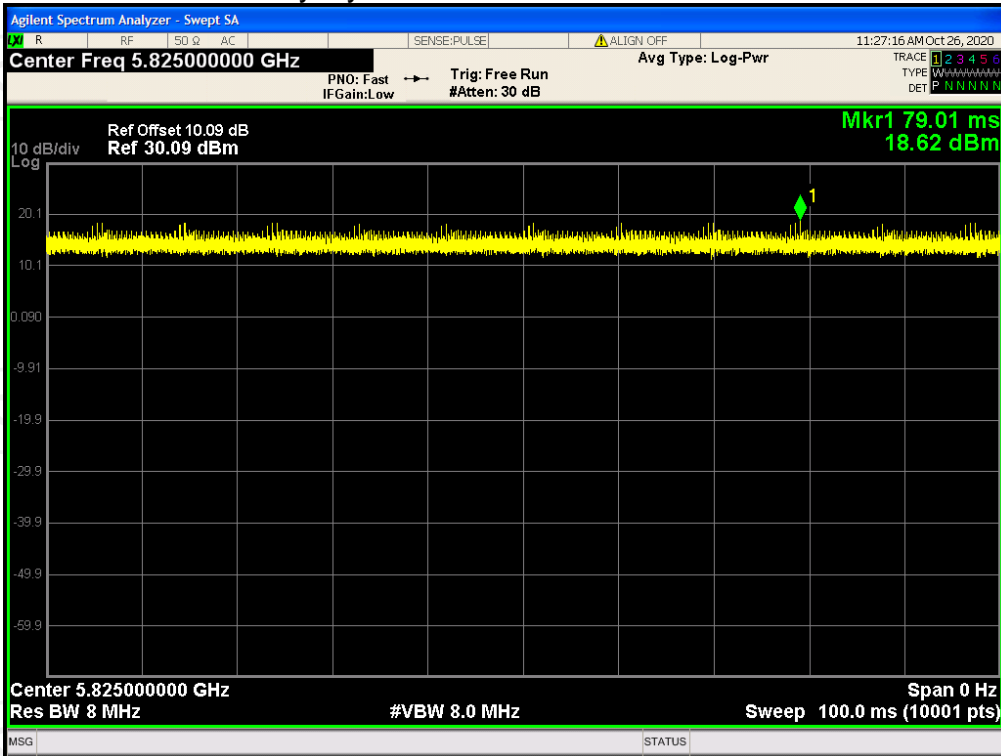
Duty Cycle NVNT 802.11a 5745MHz



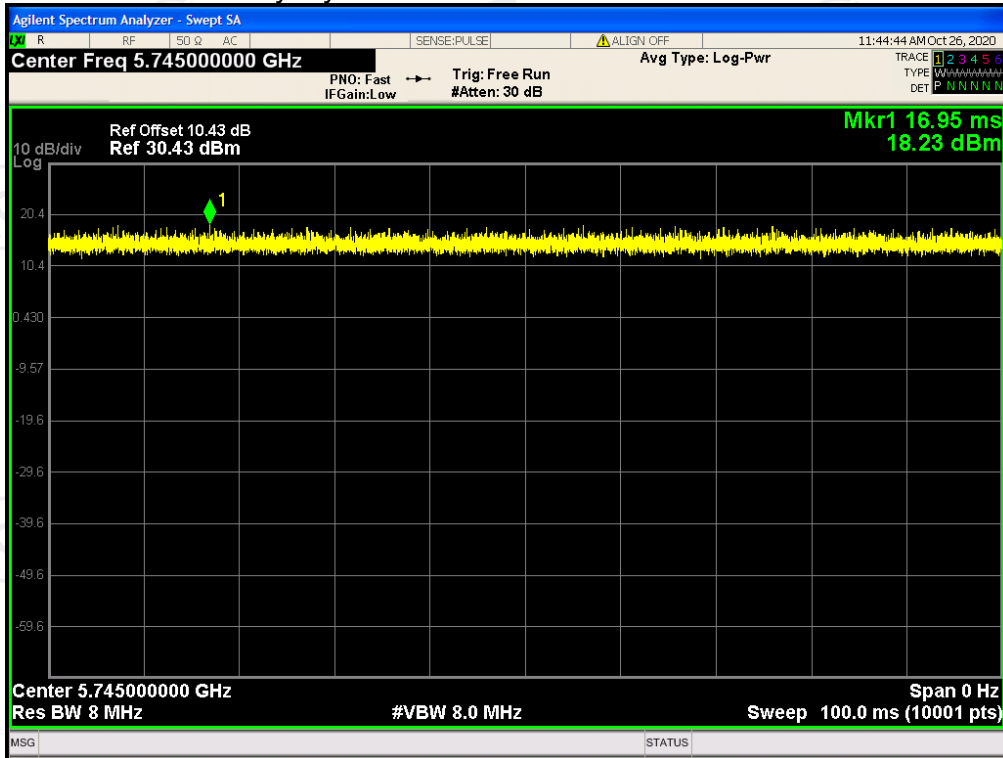
Duty Cycle NVNT 802.11a 5785MHz



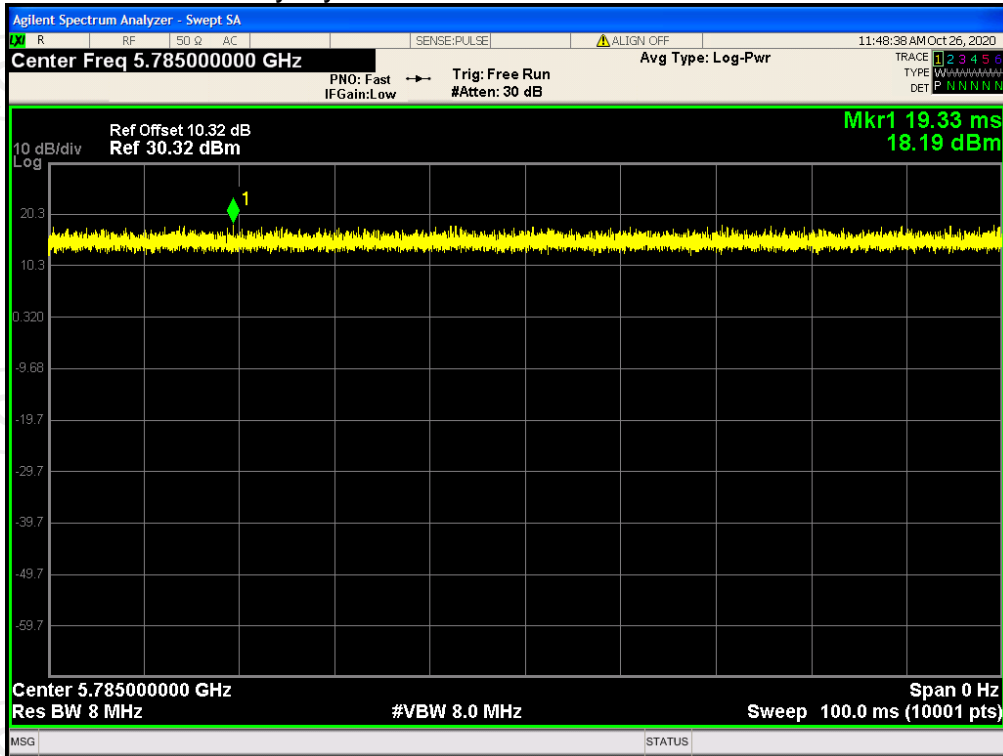
Duty Cycle NVNT 802.11a 5825MHz



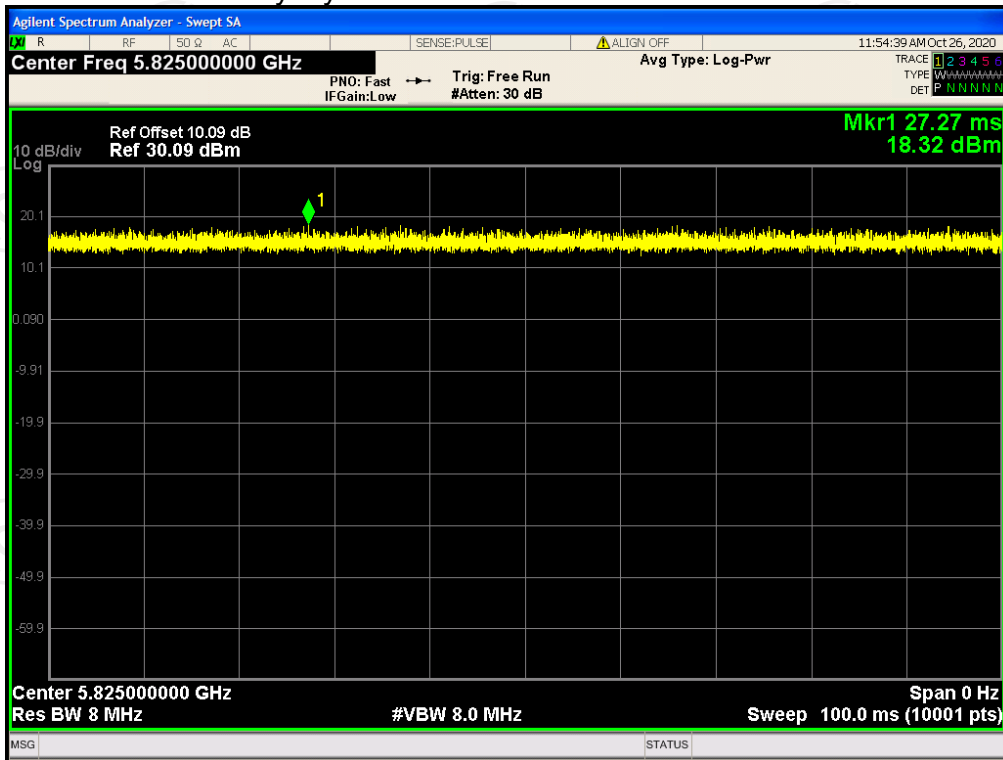
Duty Cycle NVNT 802.11ac20 5745MHz



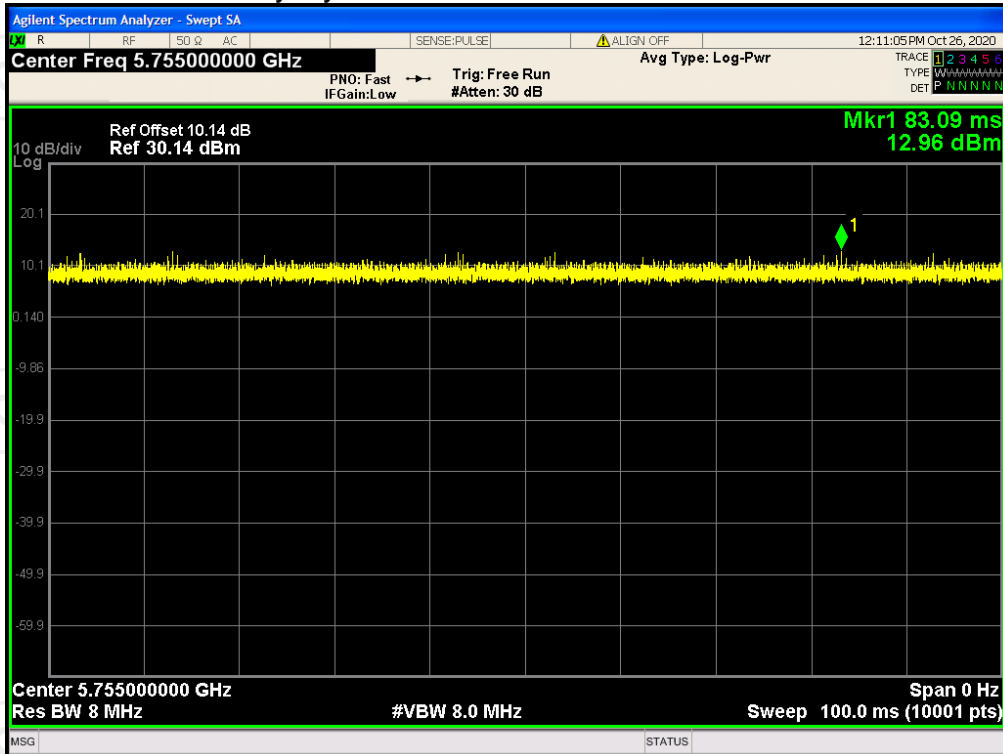
Duty Cycle NVNT 802.11ac20 5785MHz



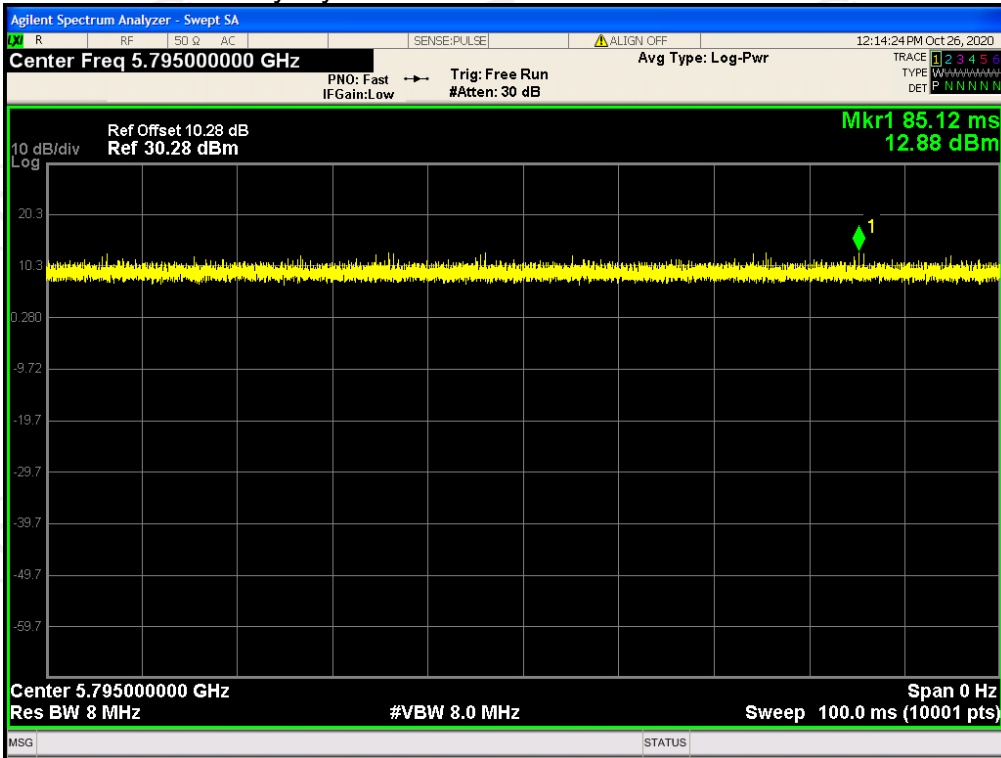
Duty Cycle NVNT 802.11ac20 5825MHz



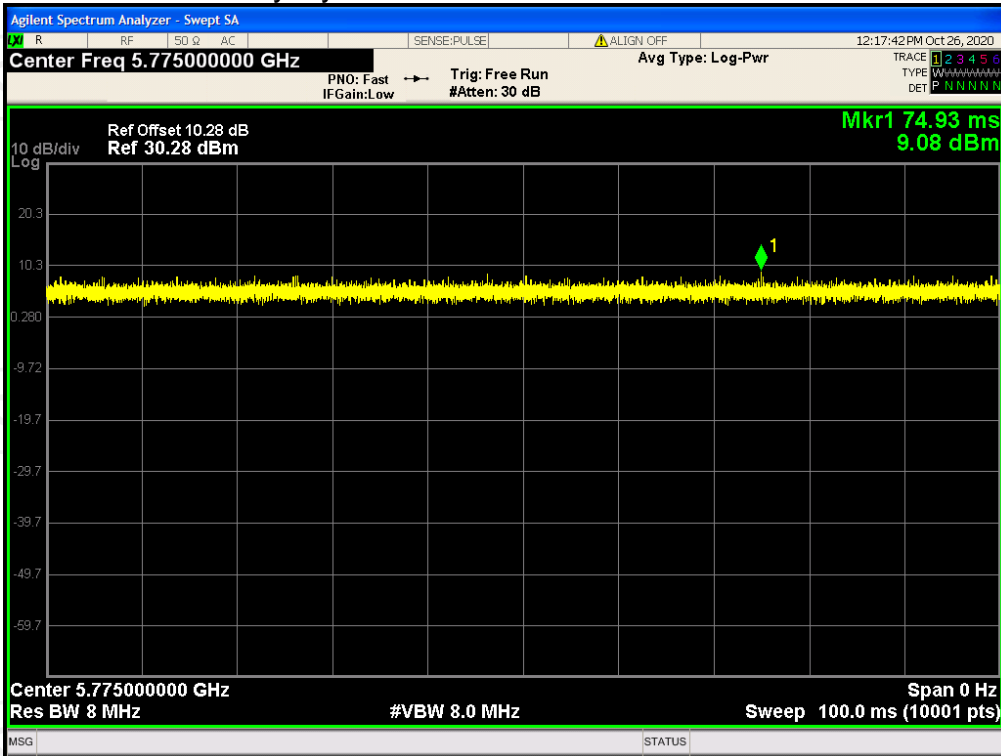
Duty Cycle NVNT 802.11ac40 5755MHz



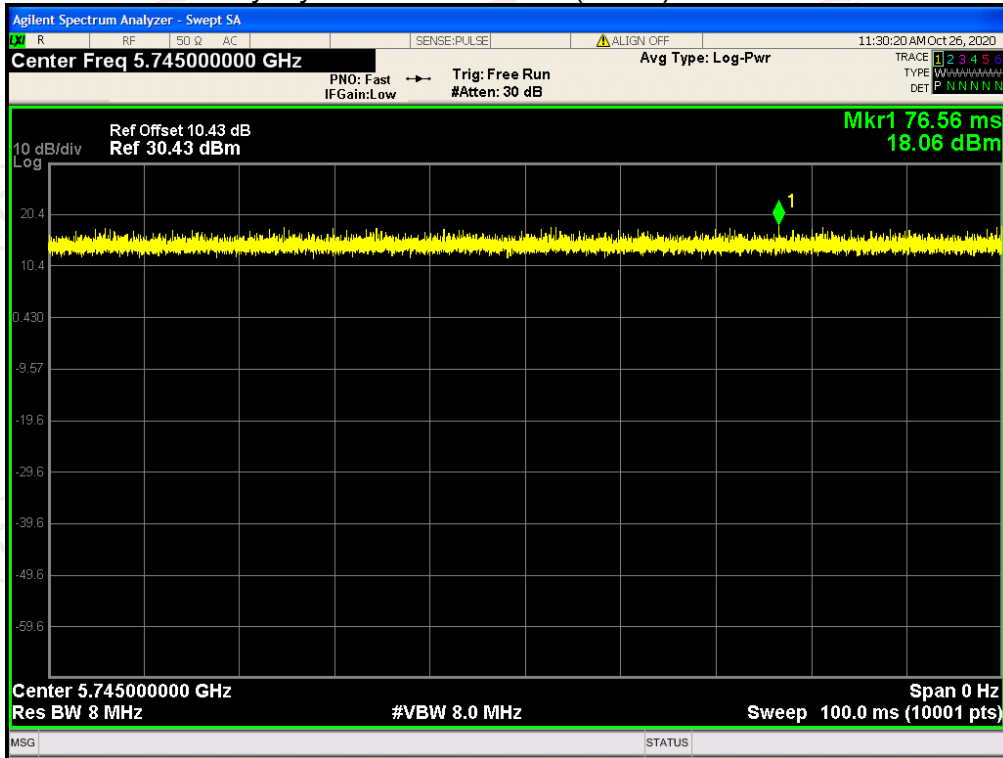
Duty Cycle NVNT 802.11ac40 5795MHz



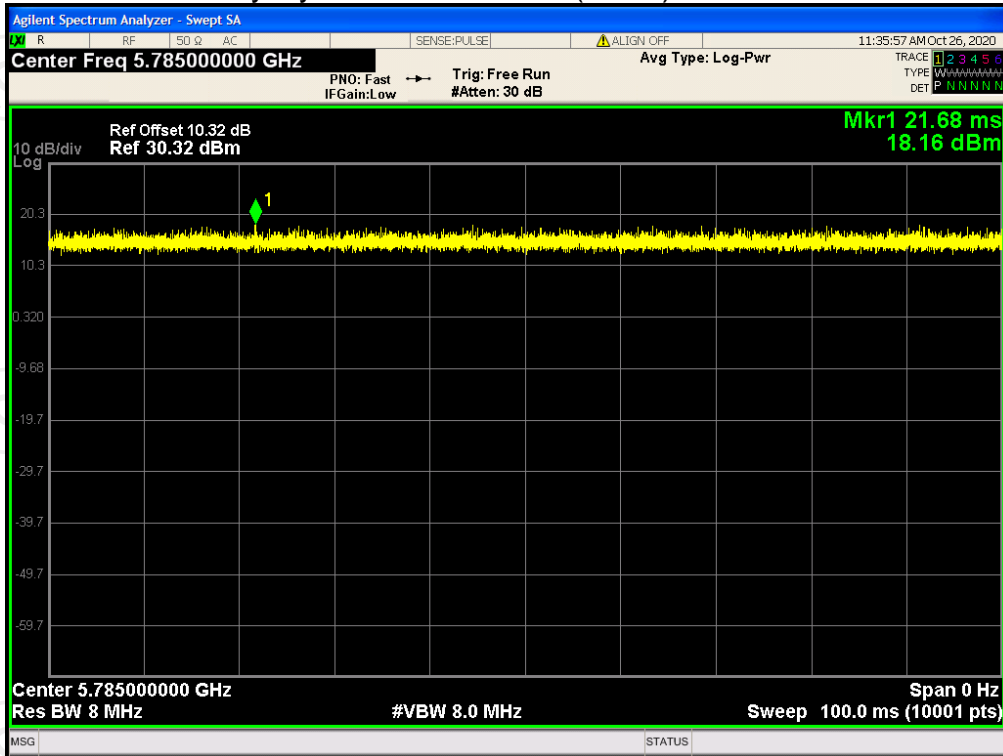
Duty Cycle NVNT 802.11ac80 5775MHz



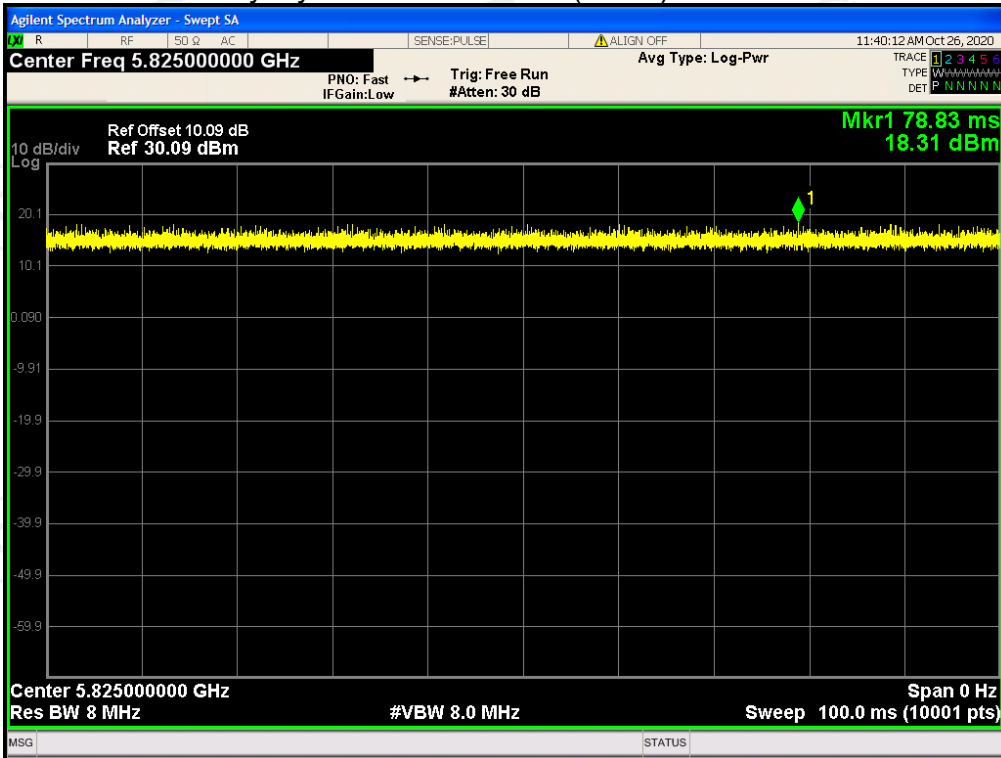
Duty Cycle NVNT 802.11n(HT20) 5745MHz



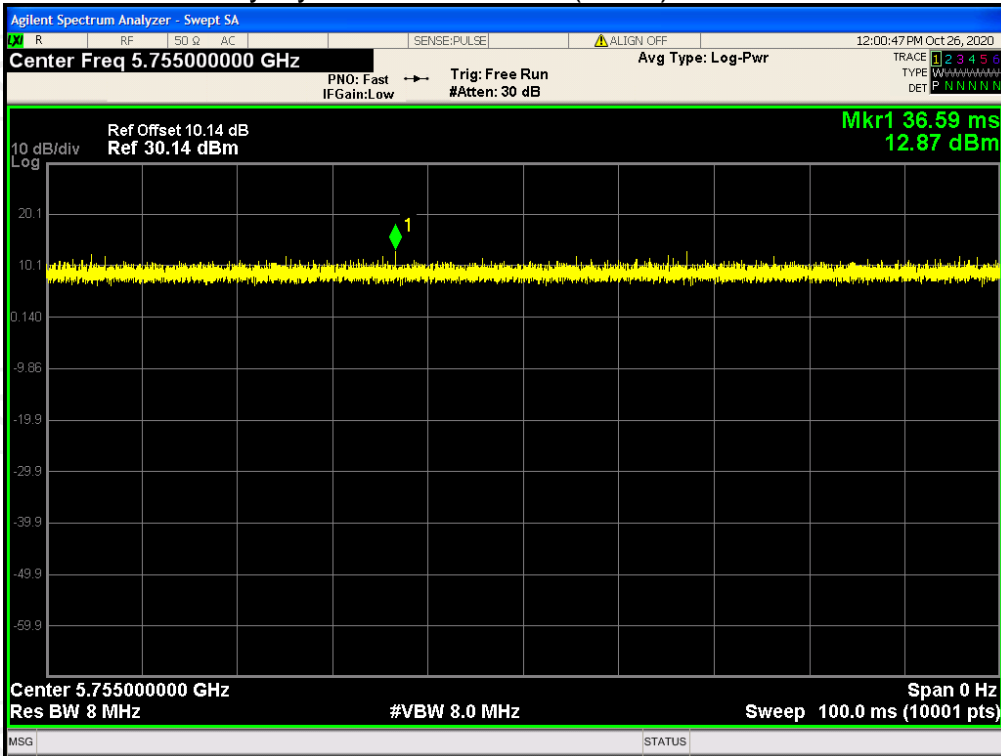
Duty Cycle NVNT 802.11n(HT20) 5785MHz



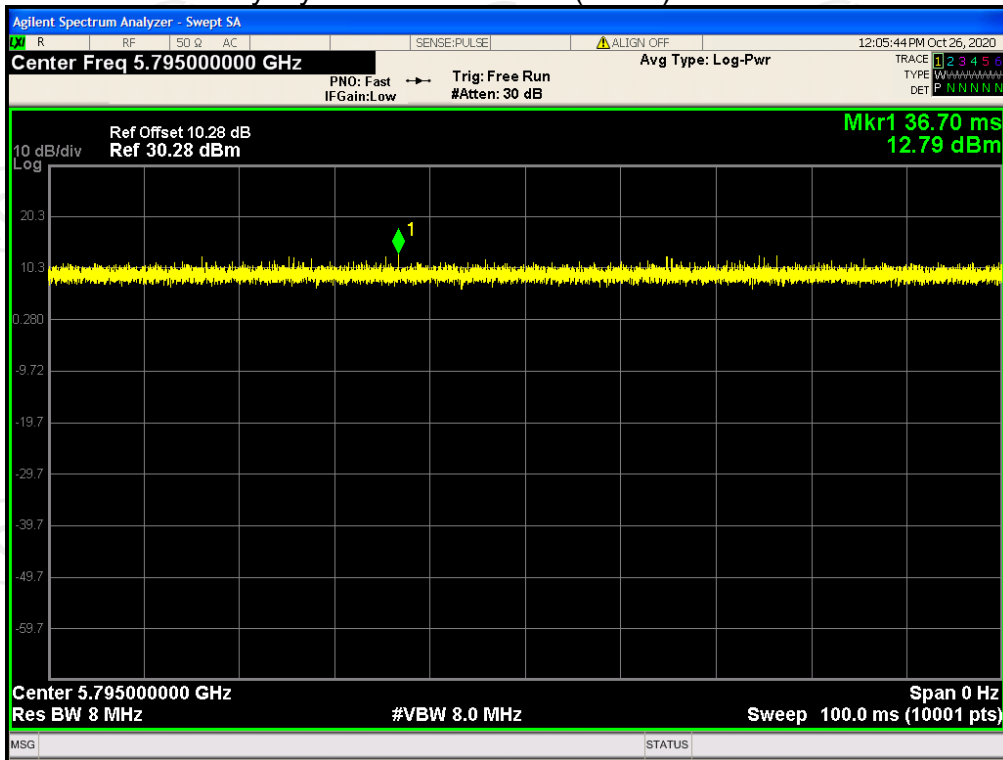
Duty Cycle NVNT 802.11n(HT20) 5825MHz



Duty Cycle NVNT 802.11n(HT40) 5755MHz



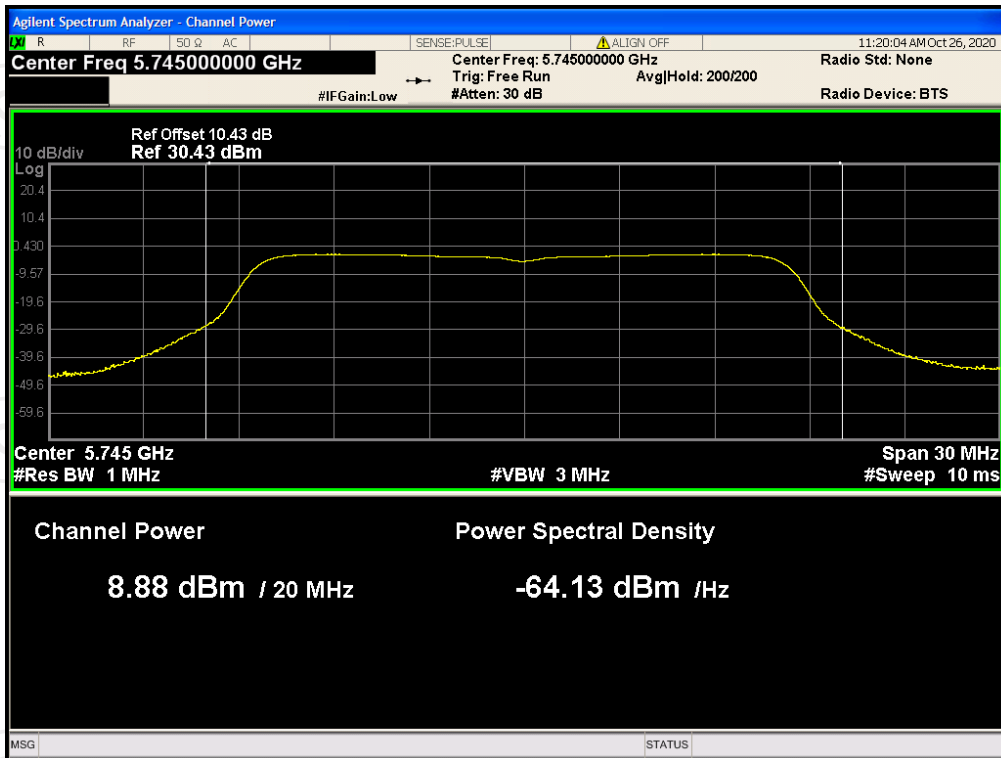
Duty Cycle NVNT 802.11n(HT40) 5795MHz



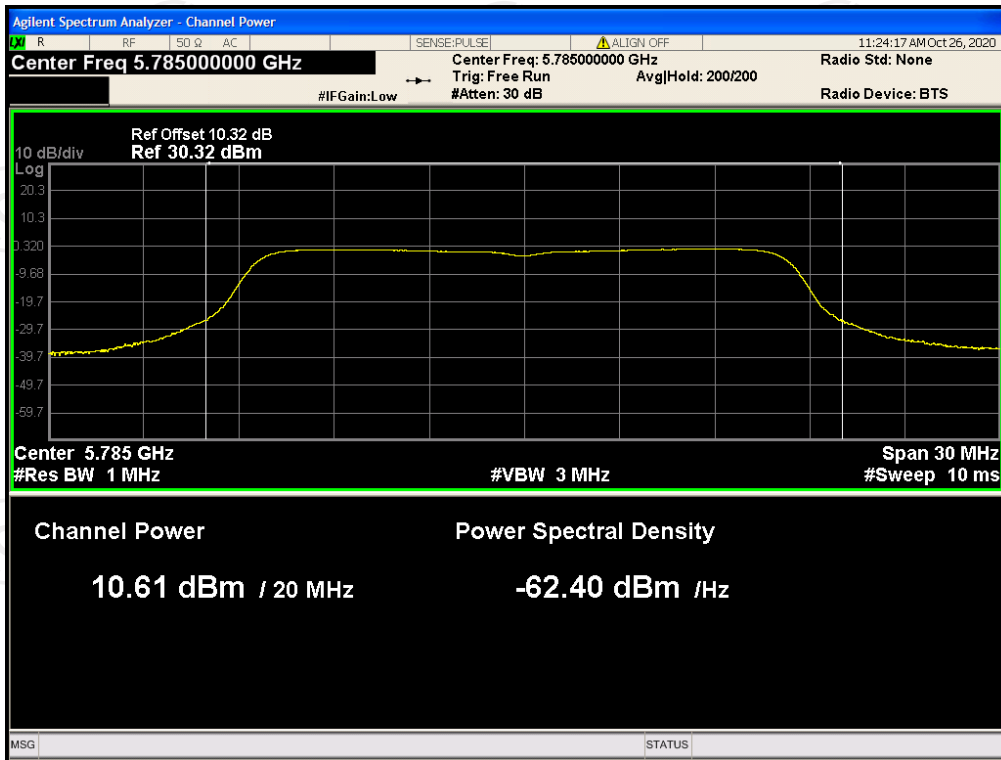
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5745	8.884	0	8.884	30	Pass
NVNT	802.11a	5785	10.613	0	10.613	30	Pass
NVNT	802.11a	5825	10.799	0	10.799	30	Pass
NVNT	802.11ac20	5745	11.103	0	11.103	30	Pass
NVNT	802.11ac20	5785	11.514	0	11.514	30	Pass
NVNT	802.11ac20	5825	11.678	0	11.678	30	Pass
NVNT	802.11ac40	5755	8.366	0	8.366	30	Pass
NVNT	802.11ac40	5795	8.722	0	8.722	30	Pass
NVNT	802.11ac80	5775	8.547	0	8.547	30	Pass
NVNT	802.11n(HT20)	5745	10.998	0	10.998	30	Pass
NVNT	802.11n(HT20)	5785	11.555	0	11.555	30	Pass
NVNT	802.11n(HT20)	5825	11.731	0	11.731	30	Pass
NVNT	802.11n(HT40)	5755	8.315	0	8.315	30	Pass
NVNT	802.11n(HT40)	5795	8.649	0	8.649	30	Pass

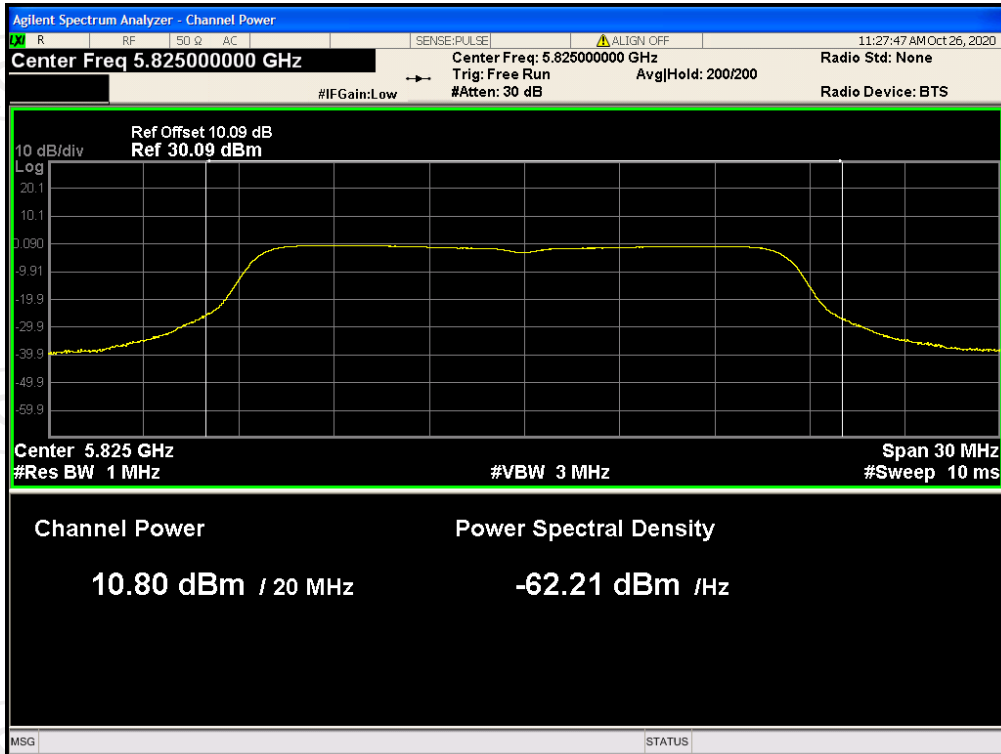
Power NVNT 802.11a 5745MHz Ant0



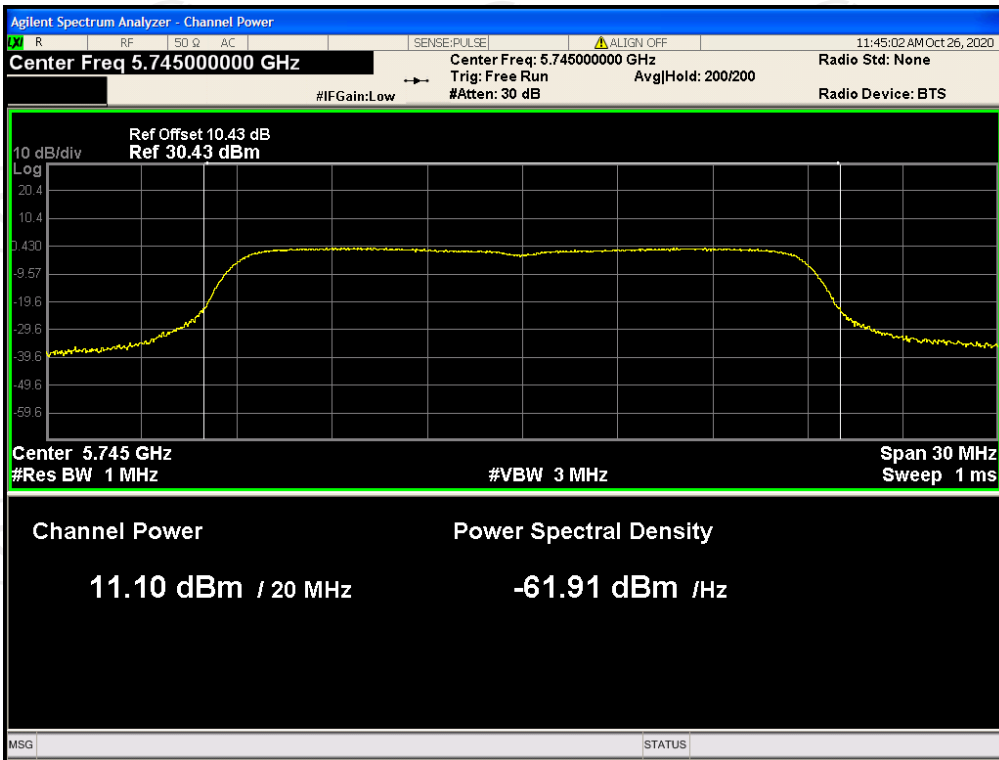
Power NVNT 802.11a 5785MHz Ant0



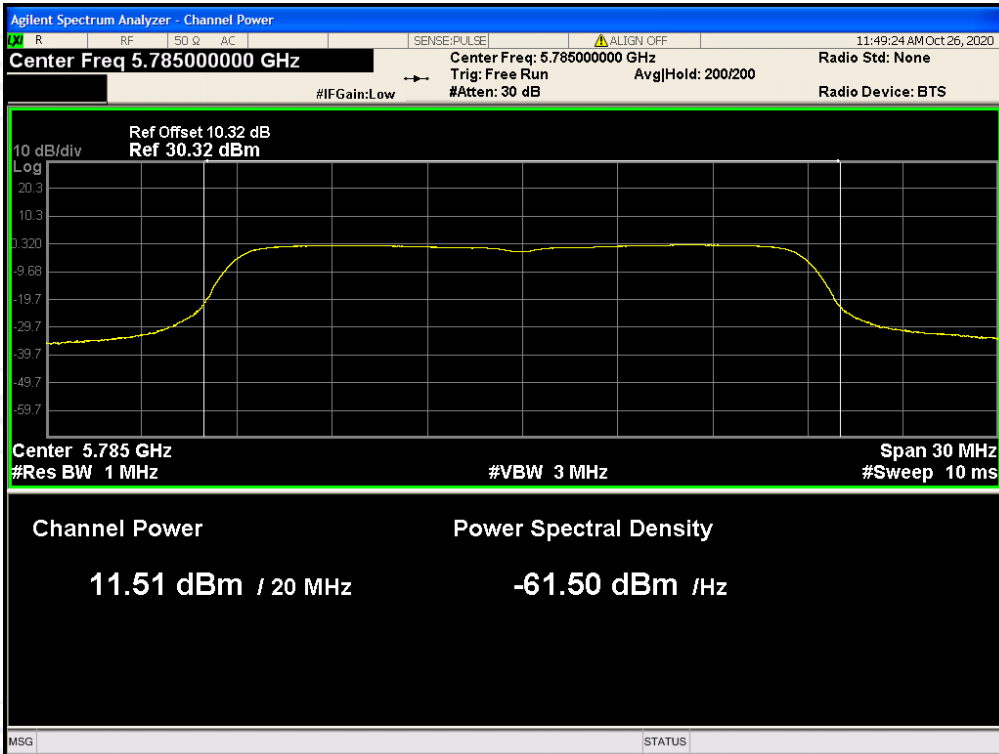
Power NVNT 802.11a 5825MHz Ant0



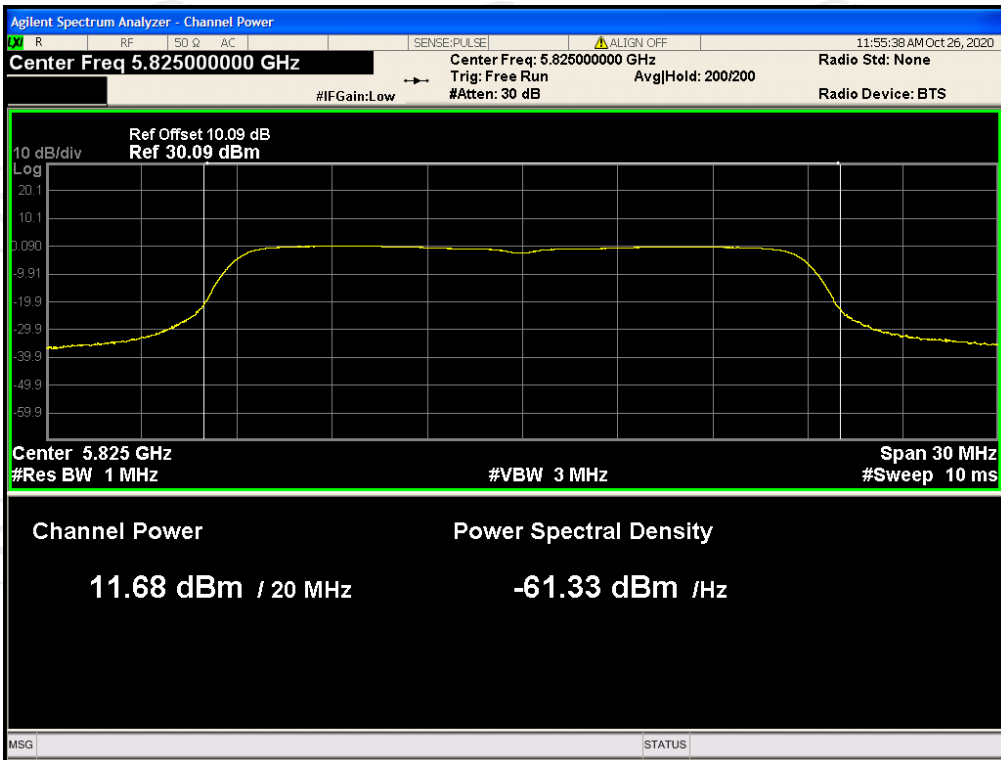
Power NVNT 802.11ac20 5745MHz Ant0



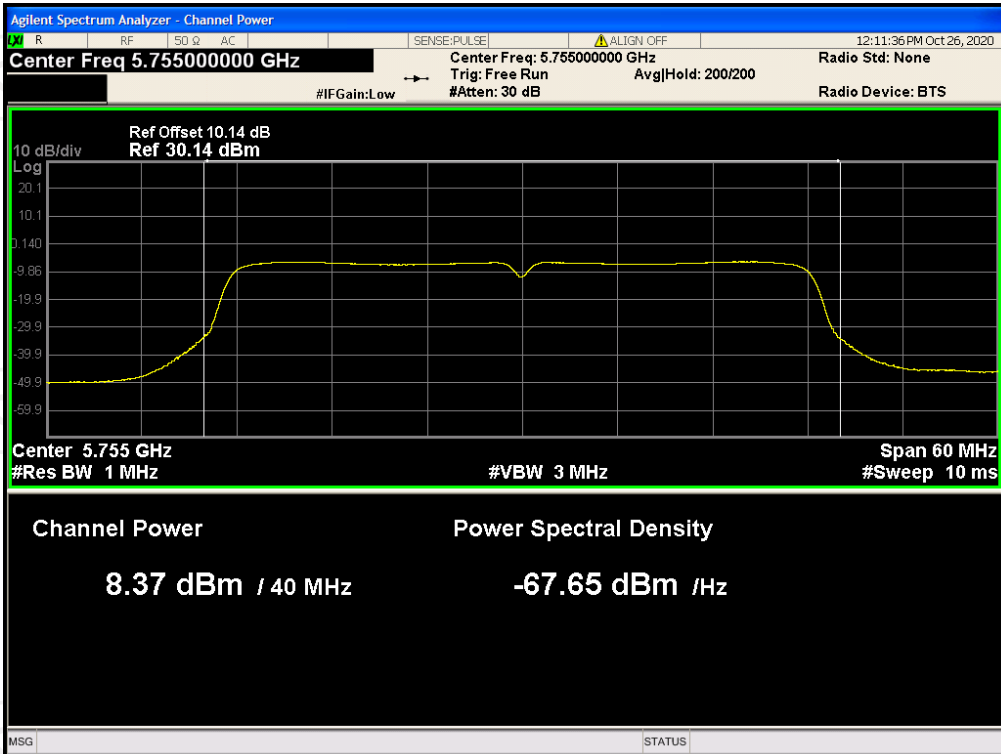
Power NVNT 802.11ac20 5785MHz Ant0



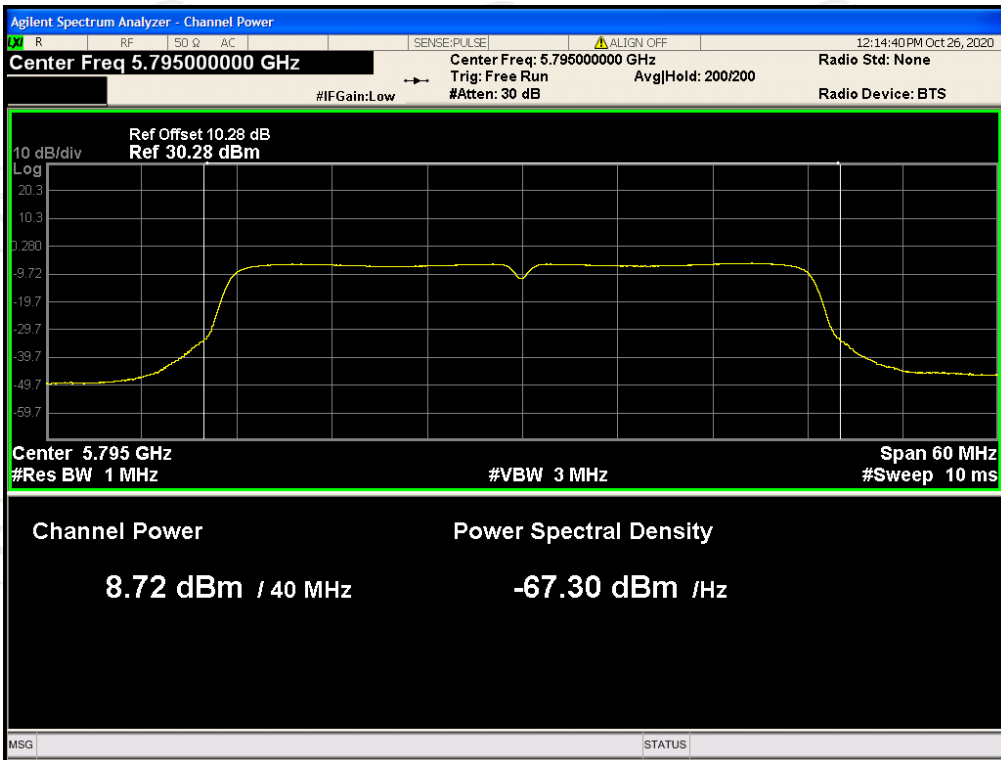
Power NVNT 802.11ac20 5825MHz Ant0



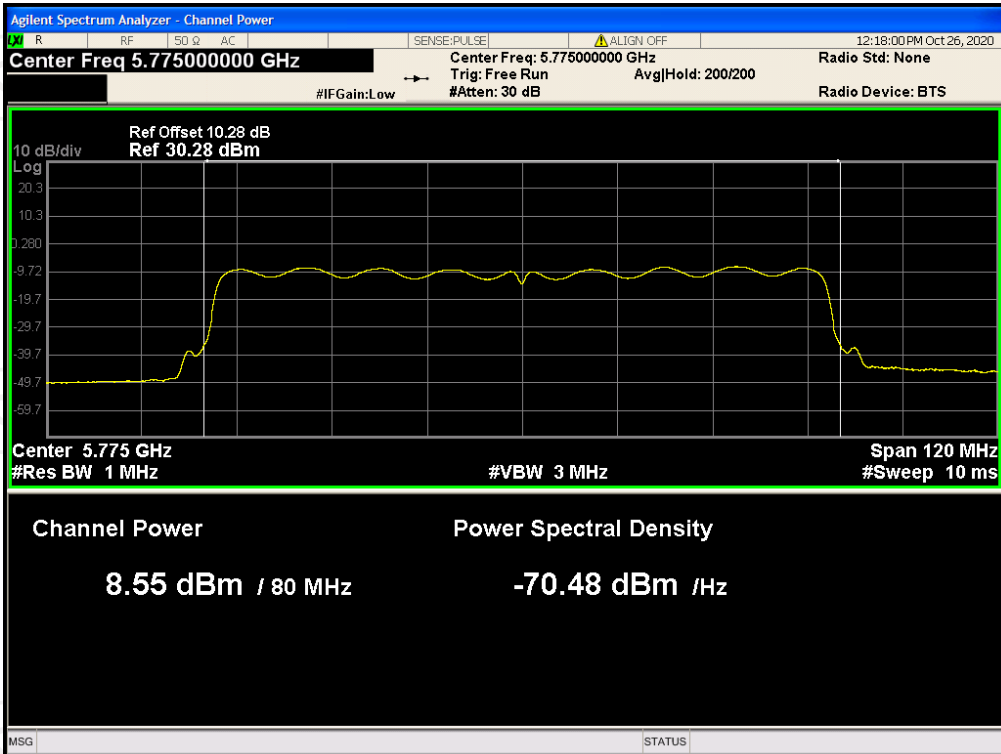
Power NVNT 802.11ac40 5755MHz Ant0



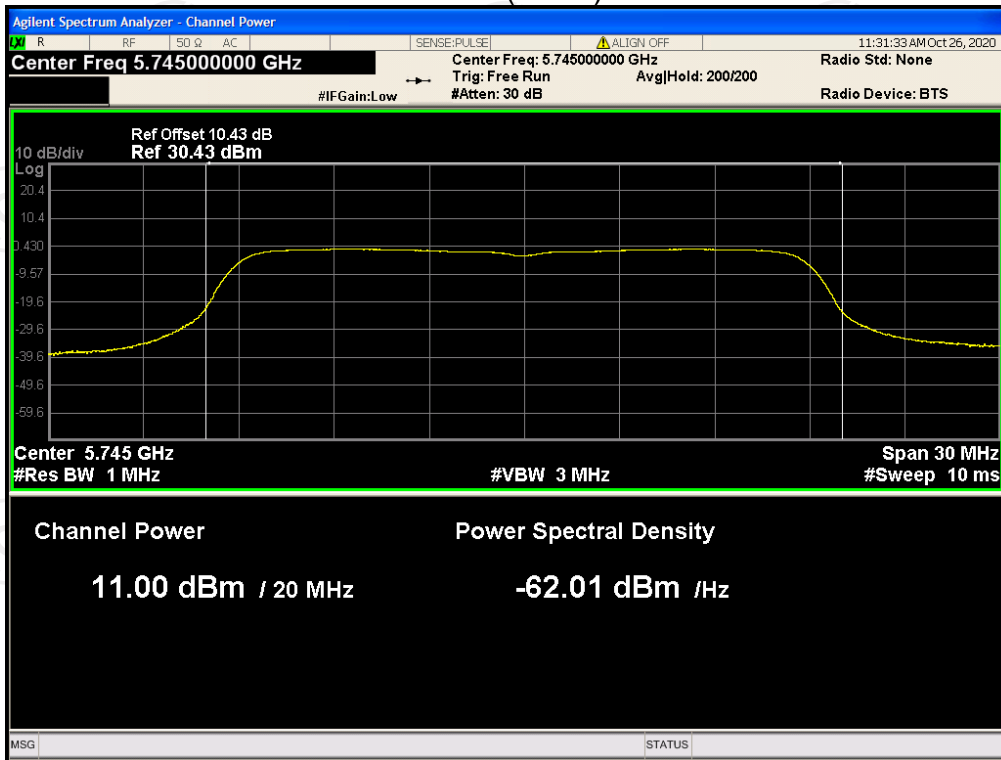
Power NVNT 802.11ac40 5795MHz Ant0



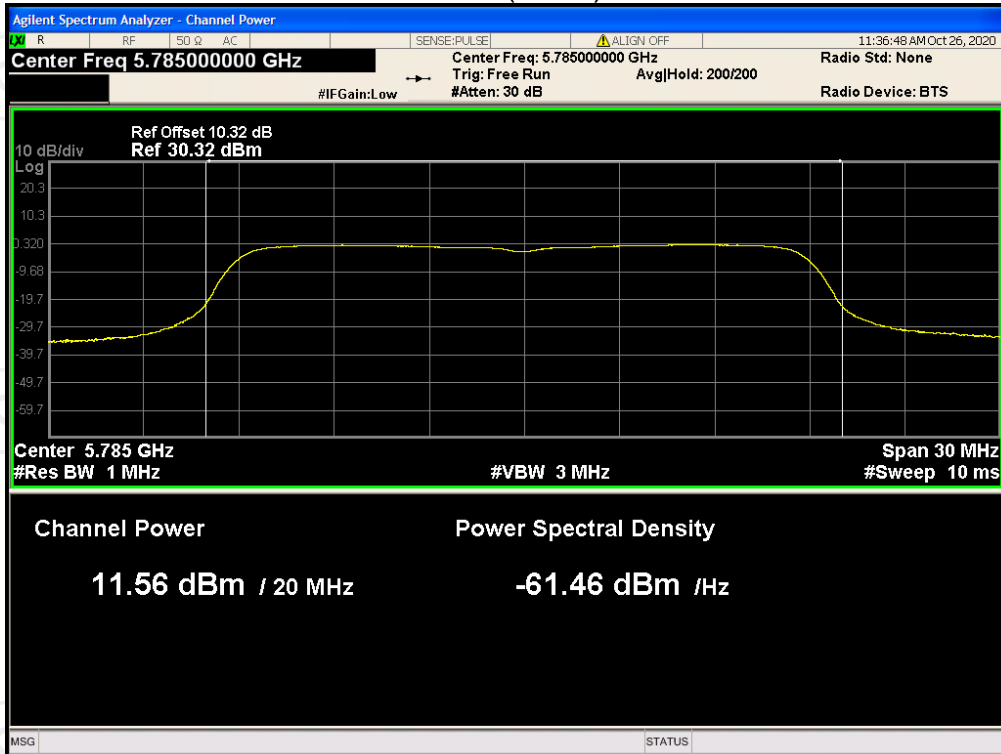
Power NVNT 802.11ac80 5775MHz Ant0



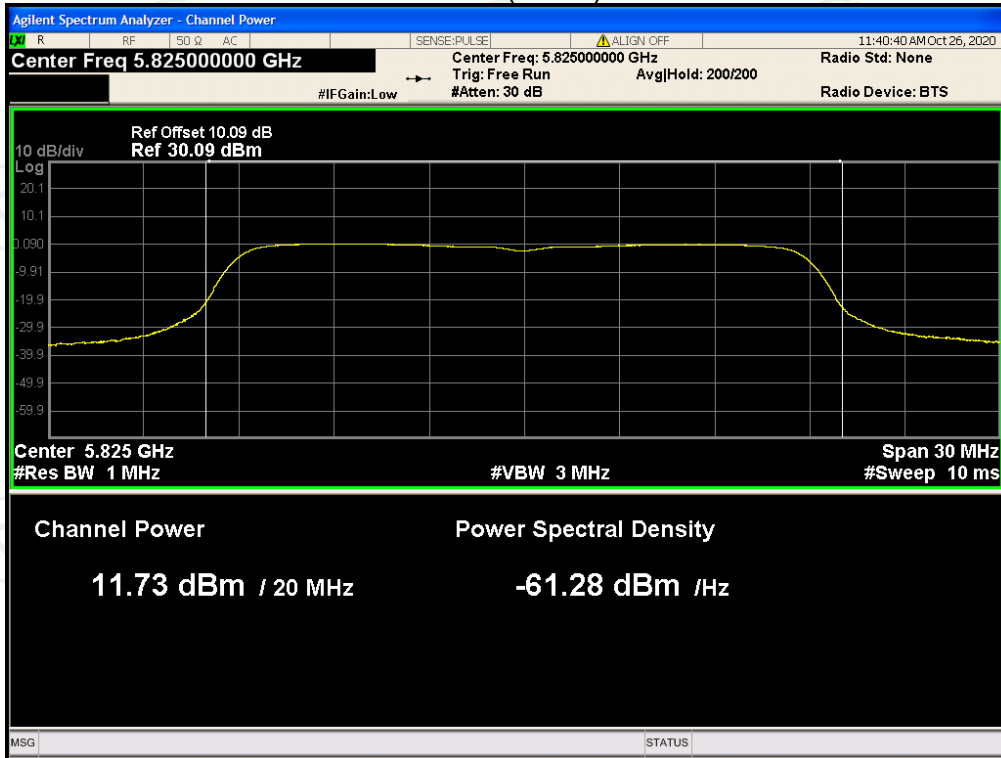
Power NVNT 802.11n(HT20) 5745MHz Ant0



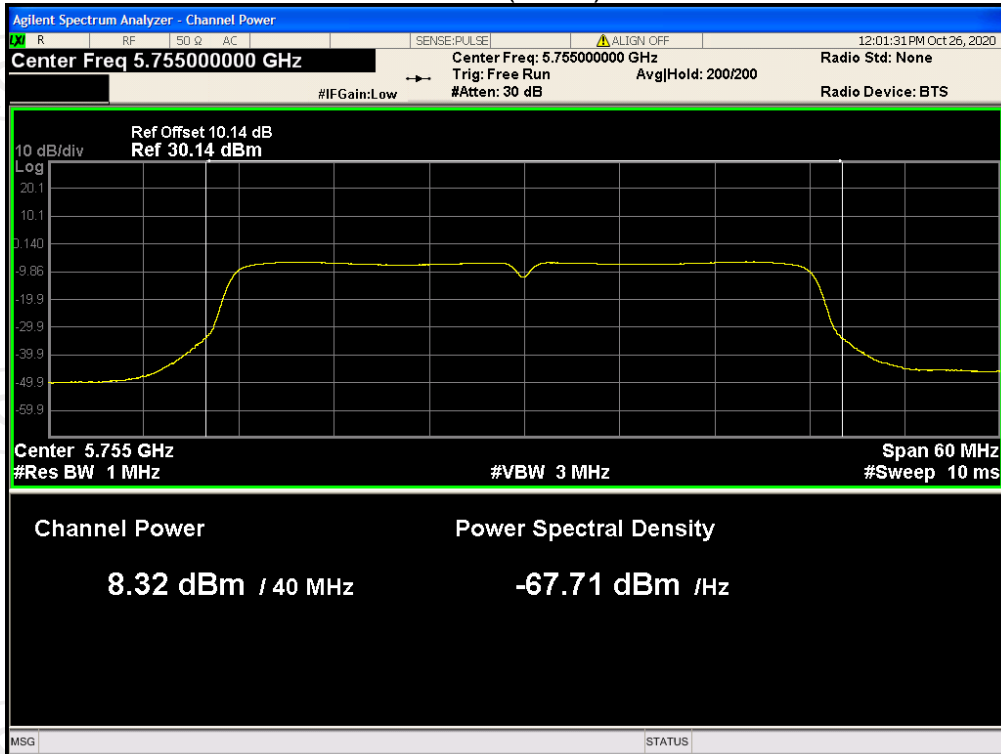
Power NVNT 802.11n(HT20) 5785MHz Ant0



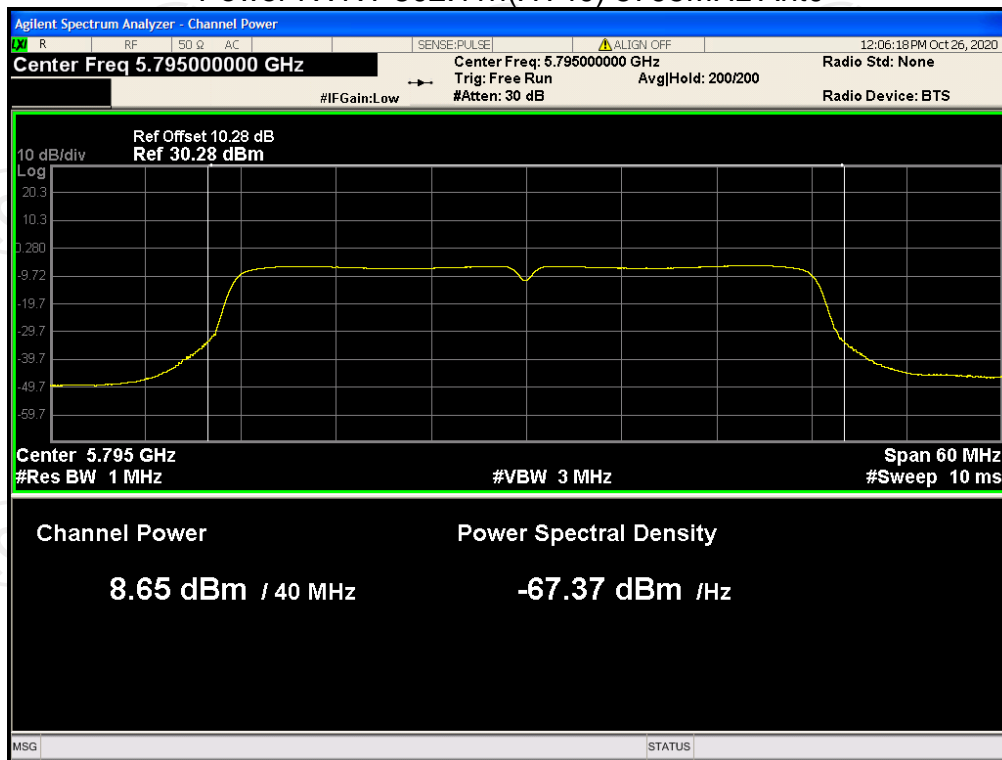
Power NVNT 802.11n(HT20) 5825MHz Ant0



Power NVNT 802.11n(HT40) 5755MHz Ant0



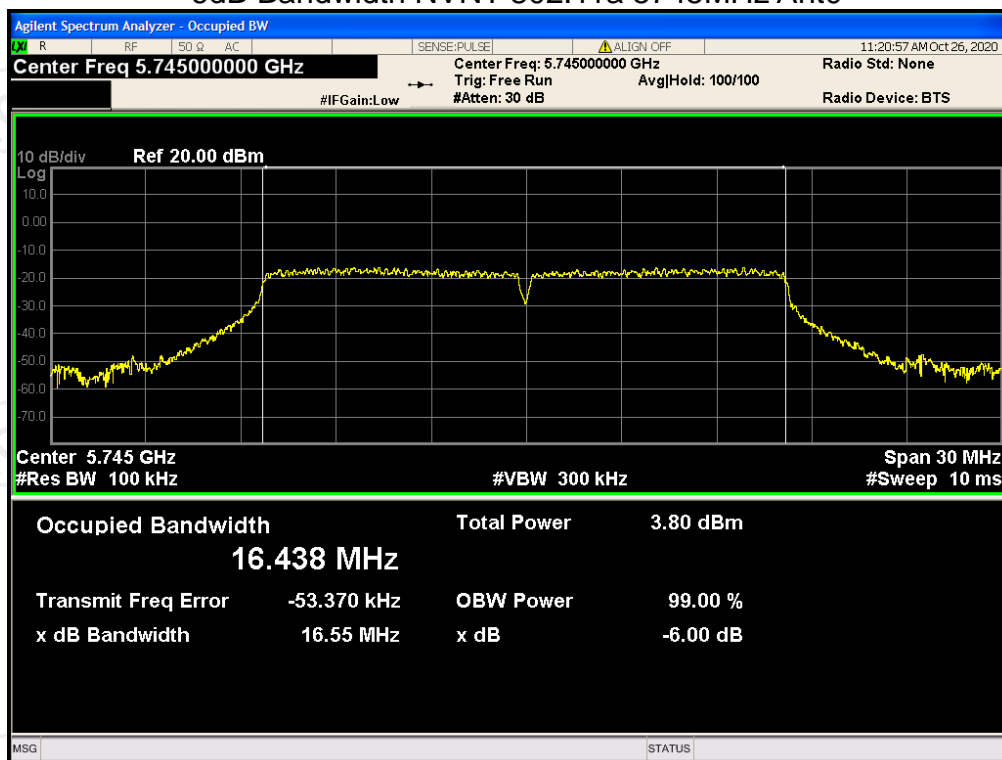
Power NVNT 802.11n(HT40) 5795MHz Ant0



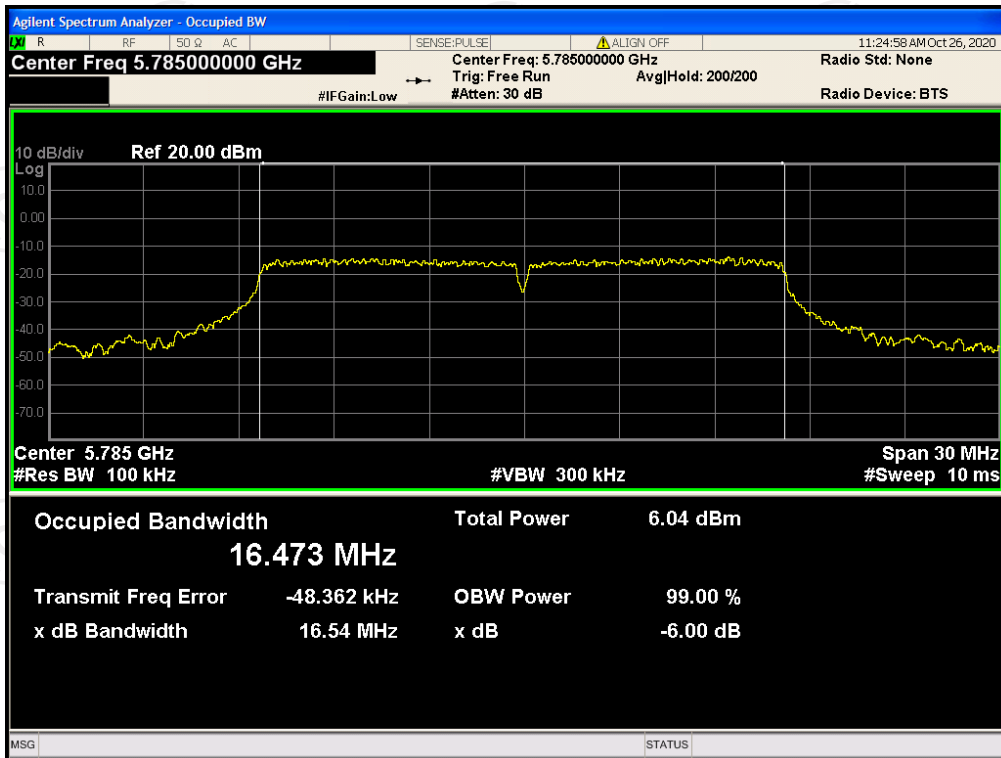
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5745	16.5525	0.5	Pass
NVNT	802.11a	5785	16.5359	0.5	Pass
NVNT	802.11a	5825	16.5292	0.5	Pass
NVNT	802.11ac20	5745	17.6518	0.5	Pass
NVNT	802.11ac20	5785	17.6747	0.5	Pass
NVNT	802.11ac20	5825	17.6088	0.5	Pass
NVNT	802.11ac40	5755	36.3949	0.5	Pass
NVNT	802.11ac40	5795	36.3942	0.5	Pass
NVNT	802.11ac80	5775	76.4082	0.5	Pass
NVNT	802.11n(HT20)	5745	17.6485	0.5	Pass
NVNT	802.11n(HT20)	5785	17.7016	0.5	Pass
NVNT	802.11n(HT20)	5825	17.6507	0.5	Pass
NVNT	802.11n(HT40)	5755	36.4411	0.5	Pass
NVNT	802.11n(HT40)	5795	36.4522	0.5	Pass

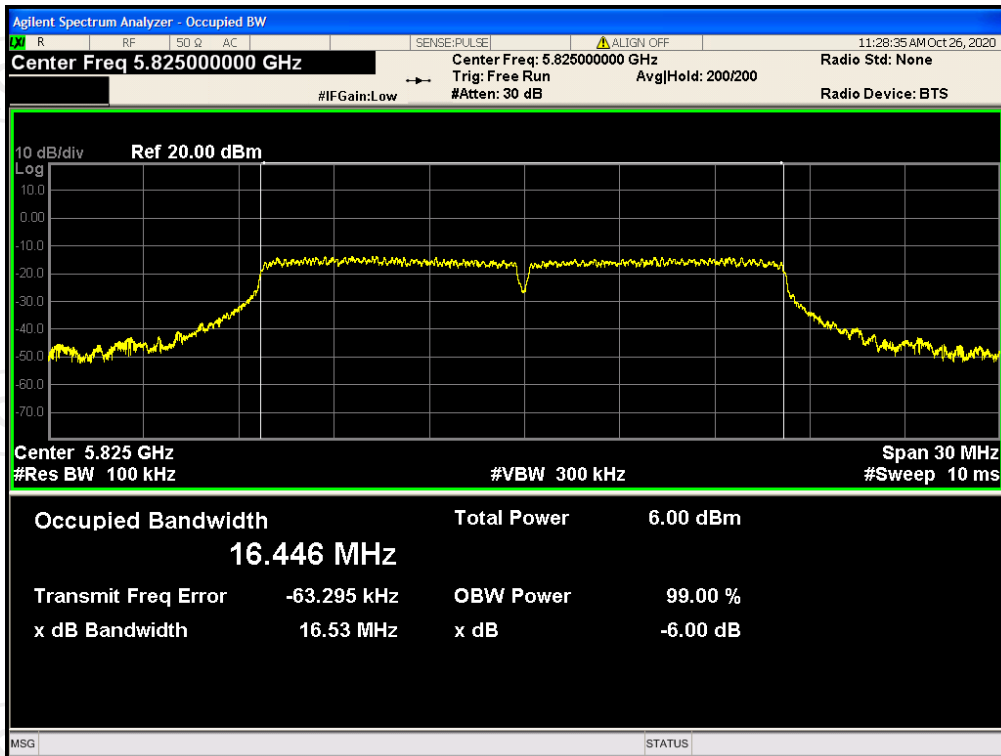
-6dB Bandwidth NVNT 802.11a 5745MHz Ant0



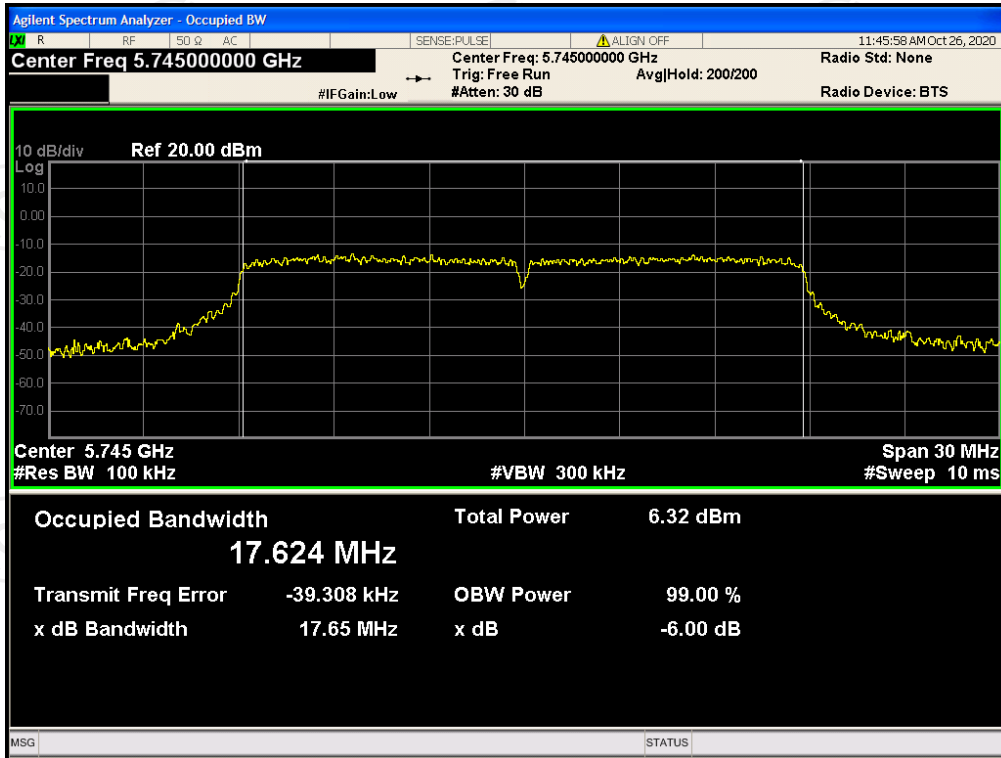
-6dB Bandwidth NVNT 802.11a 5785MHz Ant0



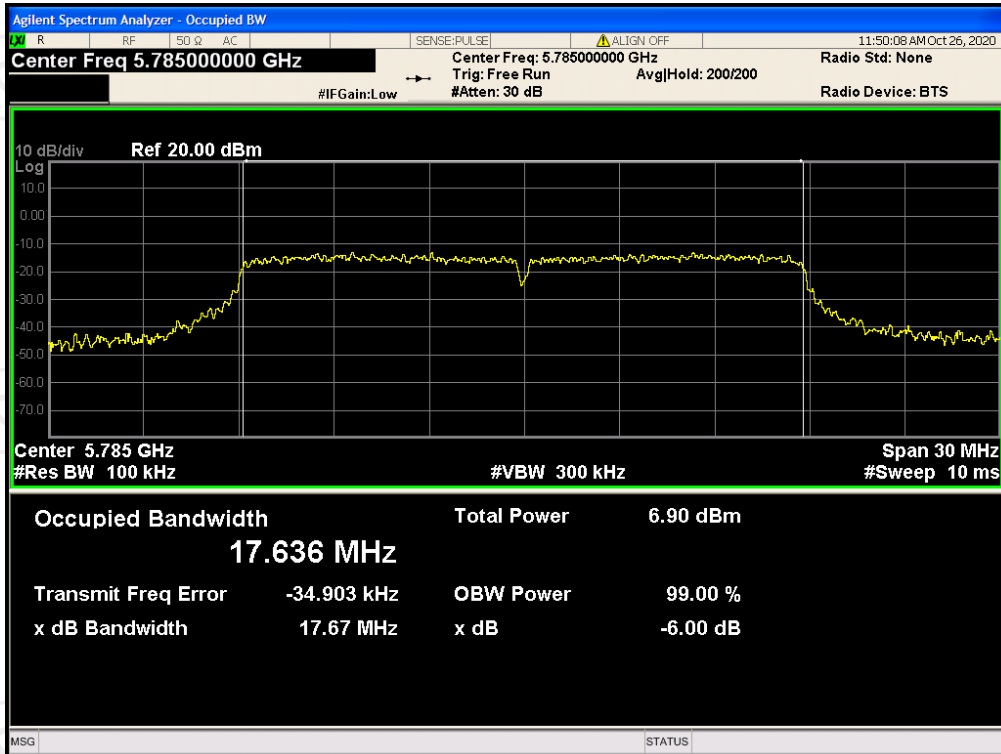
-6dB Bandwidth NVNT 802.11a 5825MHz Ant0



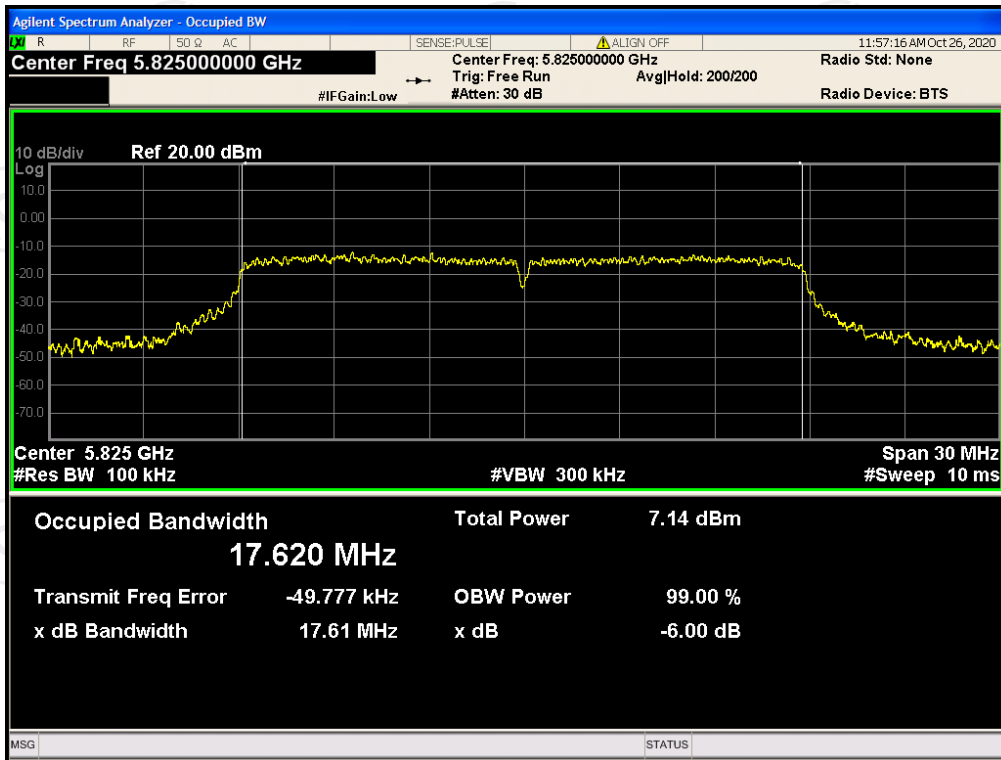
-6dB Bandwidth NVNT 802.11ac20 5745MHz Ant0



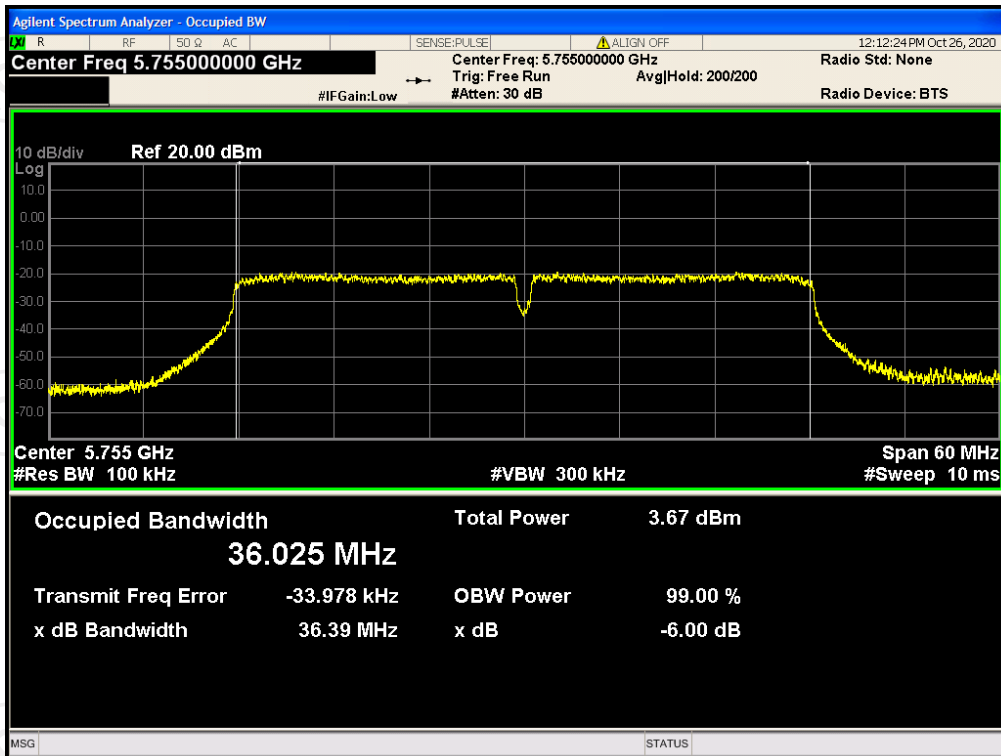
-6dB Bandwidth NVNT 802.11ac20 5785MHz Ant0



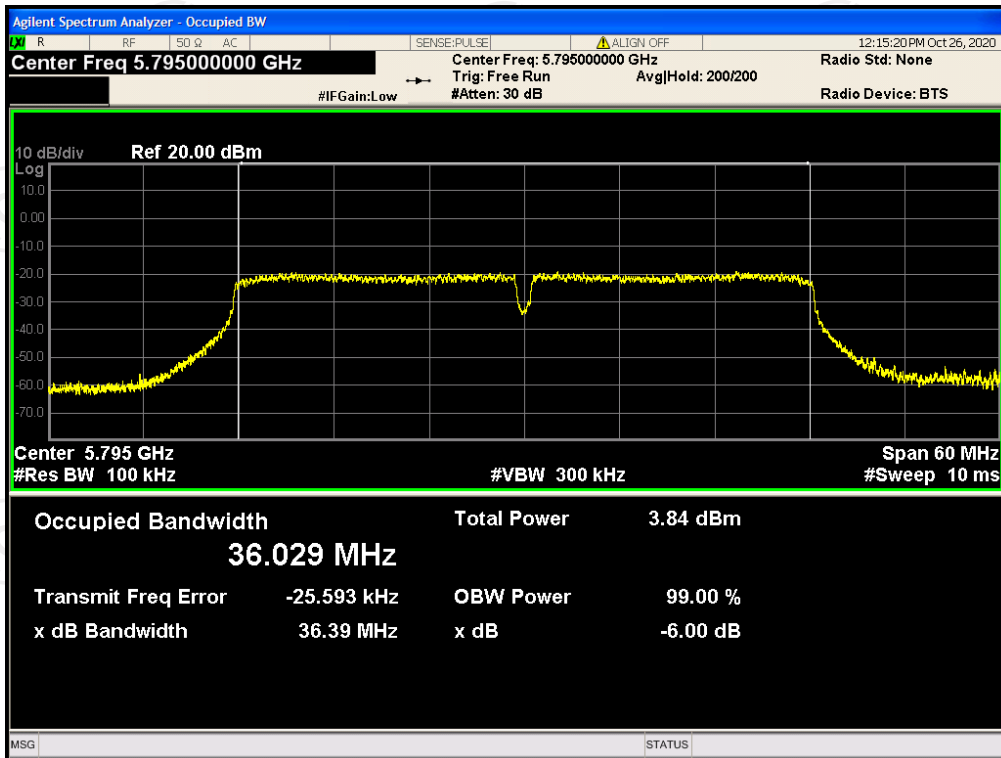
-6dB Bandwidth NVNT 802.11ac20 5825MHz Ant0



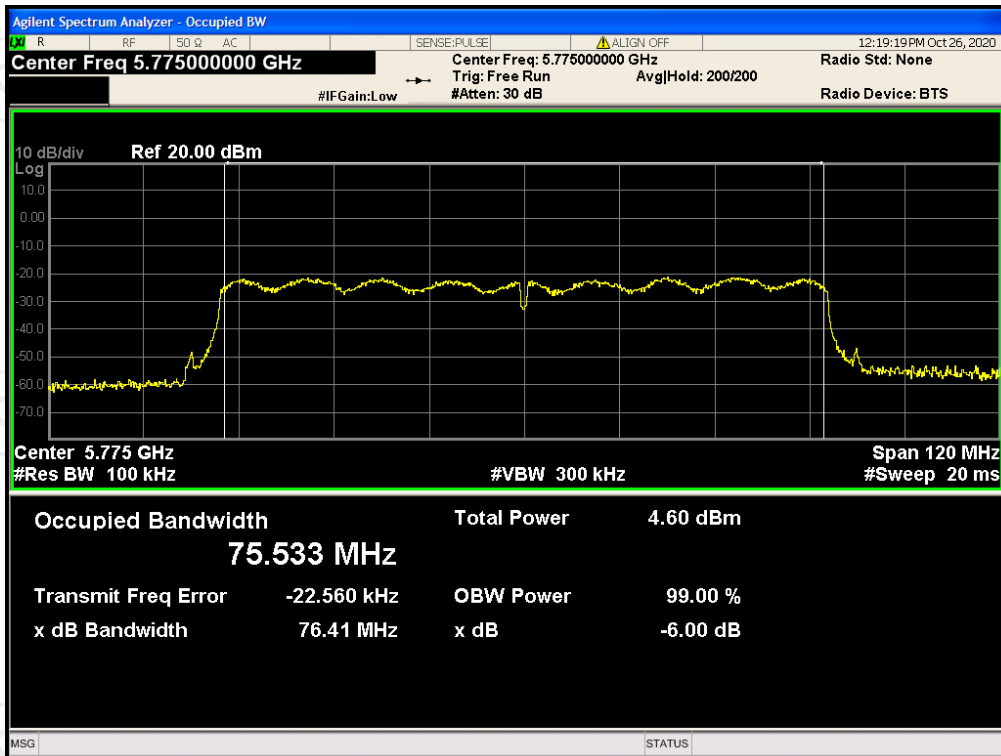
-6dB Bandwidth NVNT 802.11ac40 5755MHz Ant0



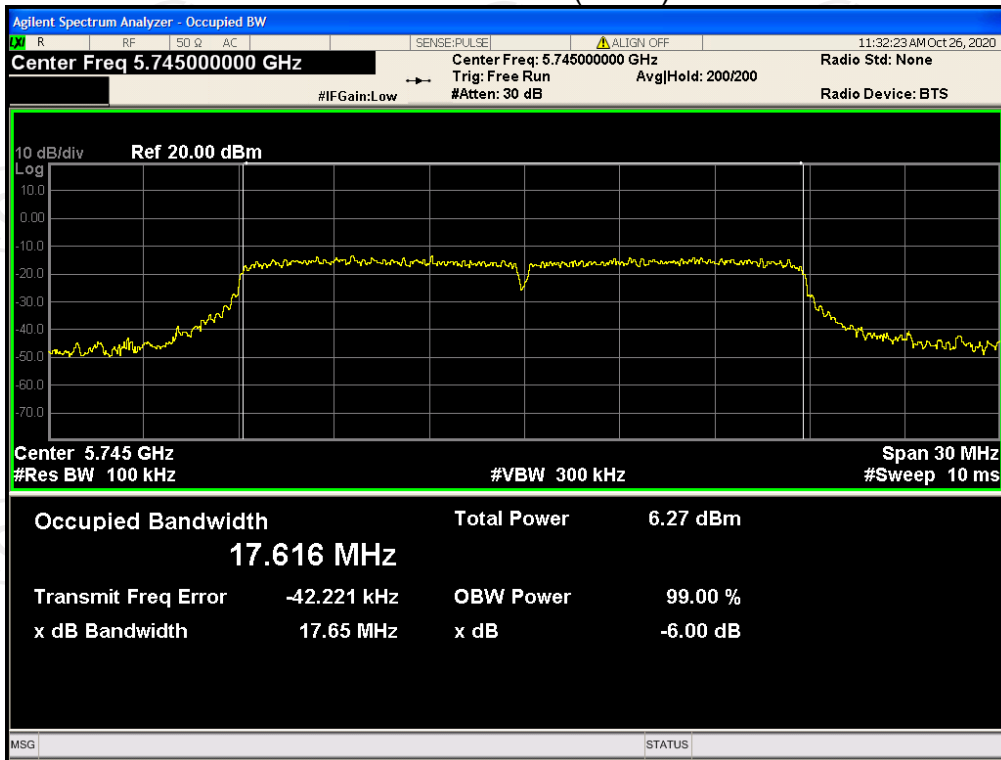
-6dB Bandwidth NVNT 802.11ac40 5795MHz Ant0



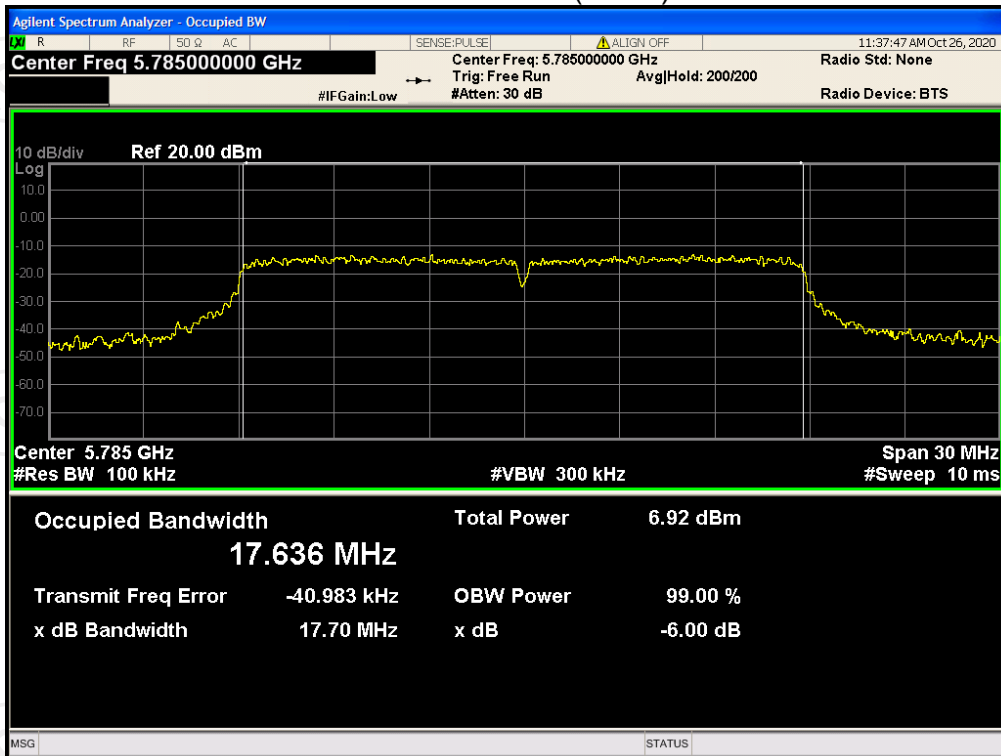
-6dB Bandwidth NVNT 802.11ac80 5775MHz Ant0



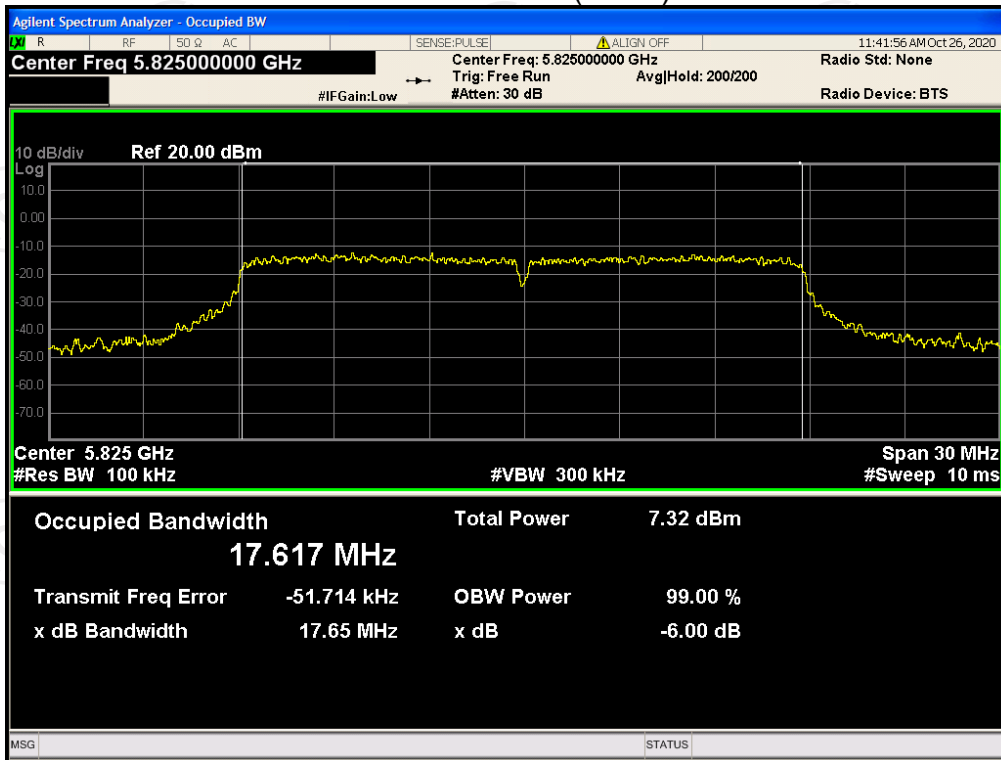
-6dB Bandwidth NVNT 802.11n(HT20) 5745MHz Ant0



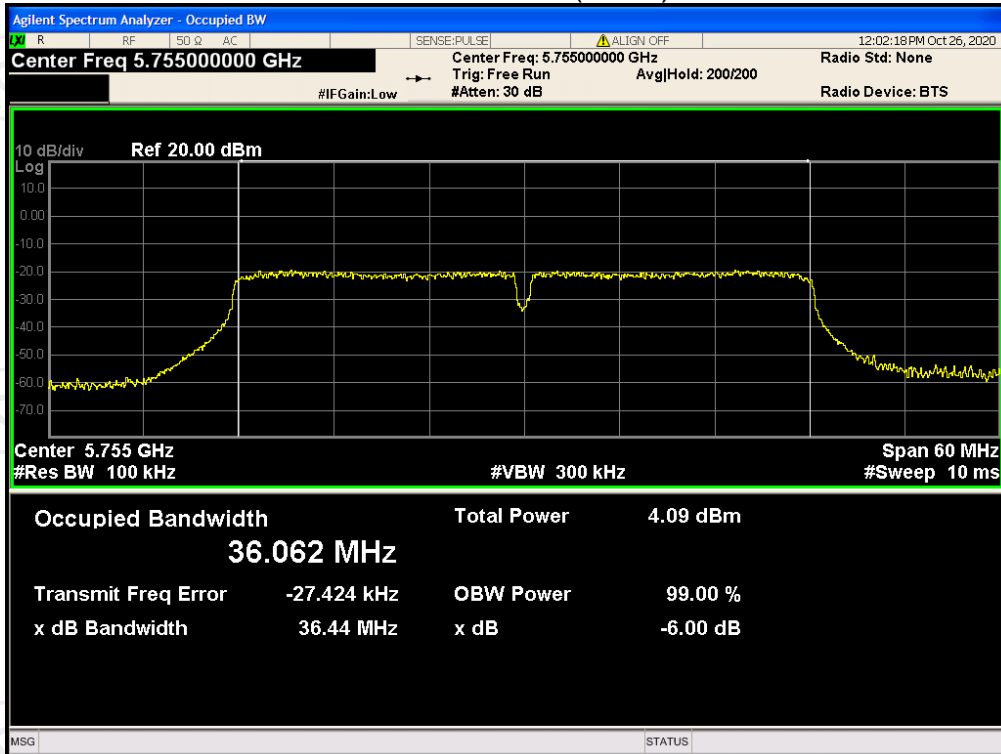
-6dB Bandwidth NVNT 802.11n(HT20) 5785MHz Ant0



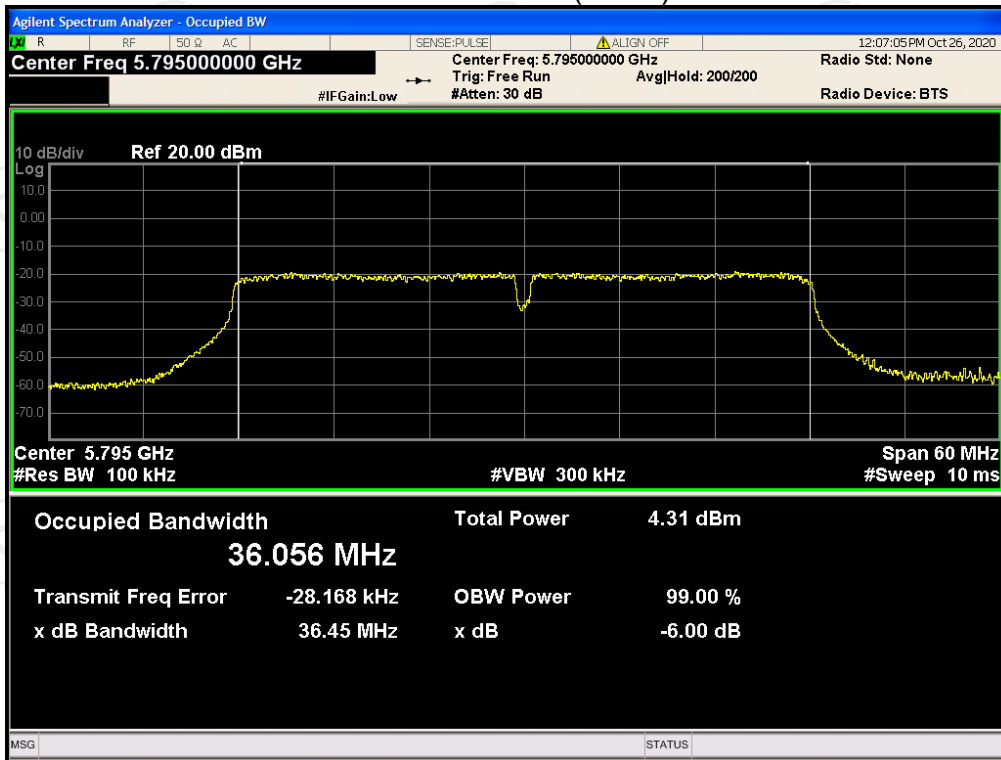
-6dB Bandwidth NVNT 802.11n(HT20) 5825MHz Ant0



-6dB Bandwidth NVNT 802.11n(HT40) 5755MHz Ant0



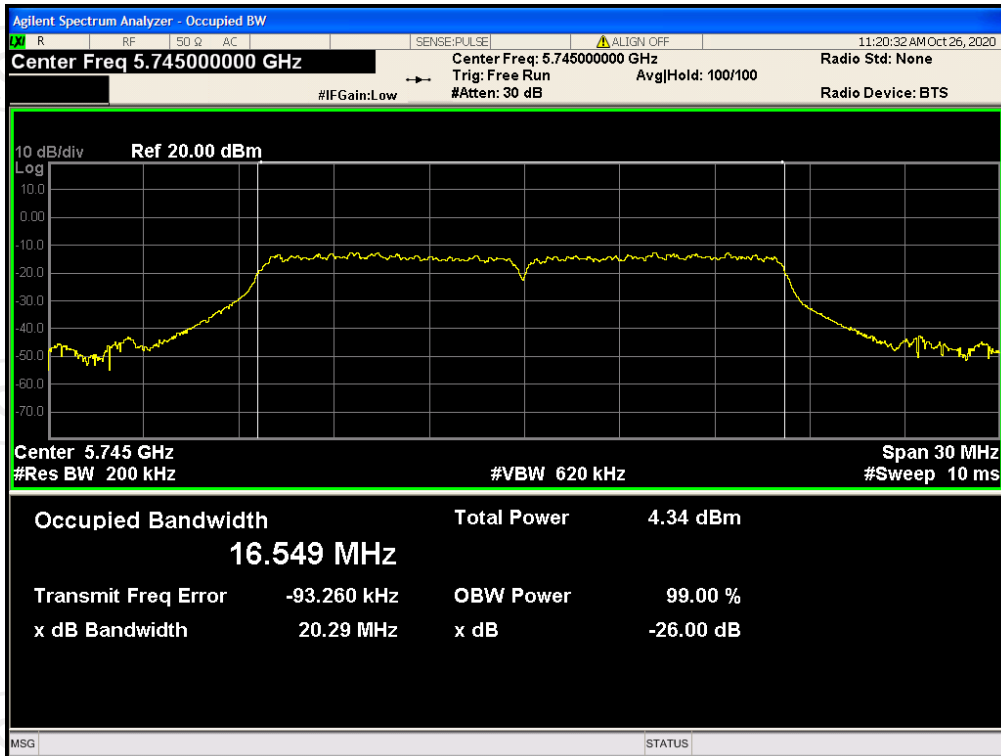
-6dB Bandwidth NVNT 802.11n(HT40) 5795MHz Ant0



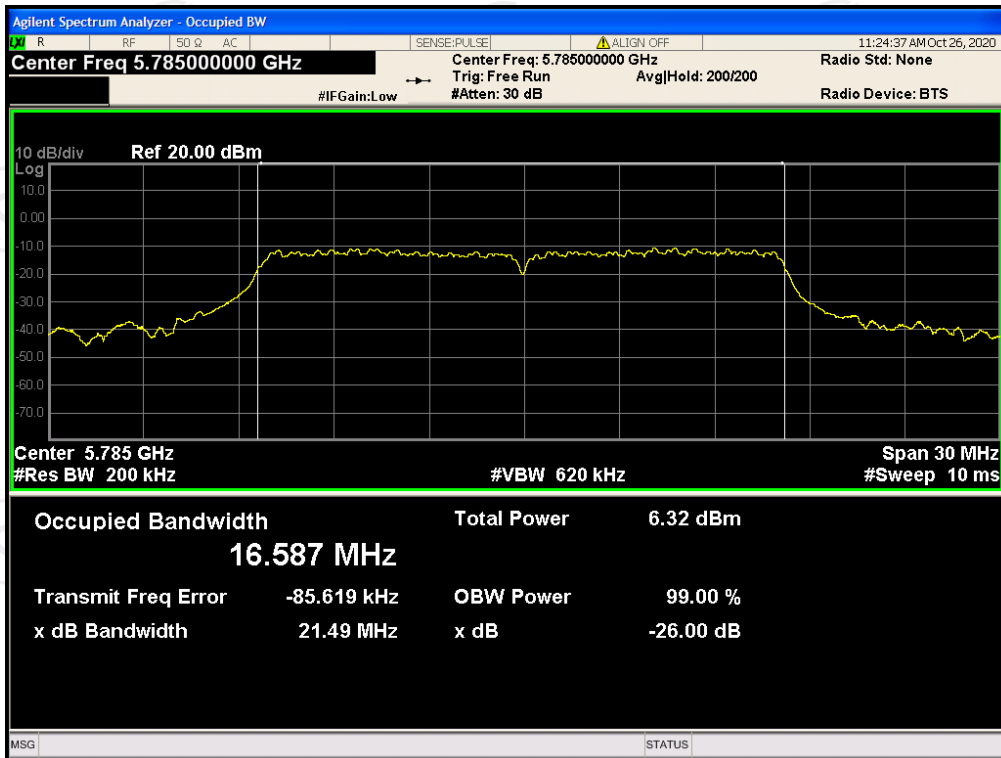
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	99% OBW (MHz)	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5745	16.549	20.2885	0.5	Pass
NVNT	802.11a	5785	16.5871	21.4879	0.5	Pass
NVNT	802.11a	5825	16.5717	21.3974	0.5	Pass
NVNT	802.11ac20	5745	17.7196	21.7946	0.5	Pass
NVNT	802.11ac20	5785	17.7399	23.1464	0.5	Pass
NVNT	802.11ac20	5825	17.713	21.7367	0.5	Pass
NVNT	802.11ac40	5755	36.2023	41.934	0.5	Pass
NVNT	802.11ac40	5795	36.191	41.8885	0.5	Pass
NVNT	802.11ac80	5775	75.6676	82.7713	0.5	Pass
NVNT	802.11n(HT20)	5745	17.6932	23.0833	0.5	Pass
NVNT	802.11n(HT20)	5785	17.7166	23.1262	0.5	Pass
NVNT	802.11n(HT20)	5825	17.6972	21.6933	0.5	Pass
NVNT	802.11n(HT40)	5755	36.2038	42.0209	0.5	Pass
NVNT	802.11n(HT40)	5795	36.1942	41.9259	0.5	Pass

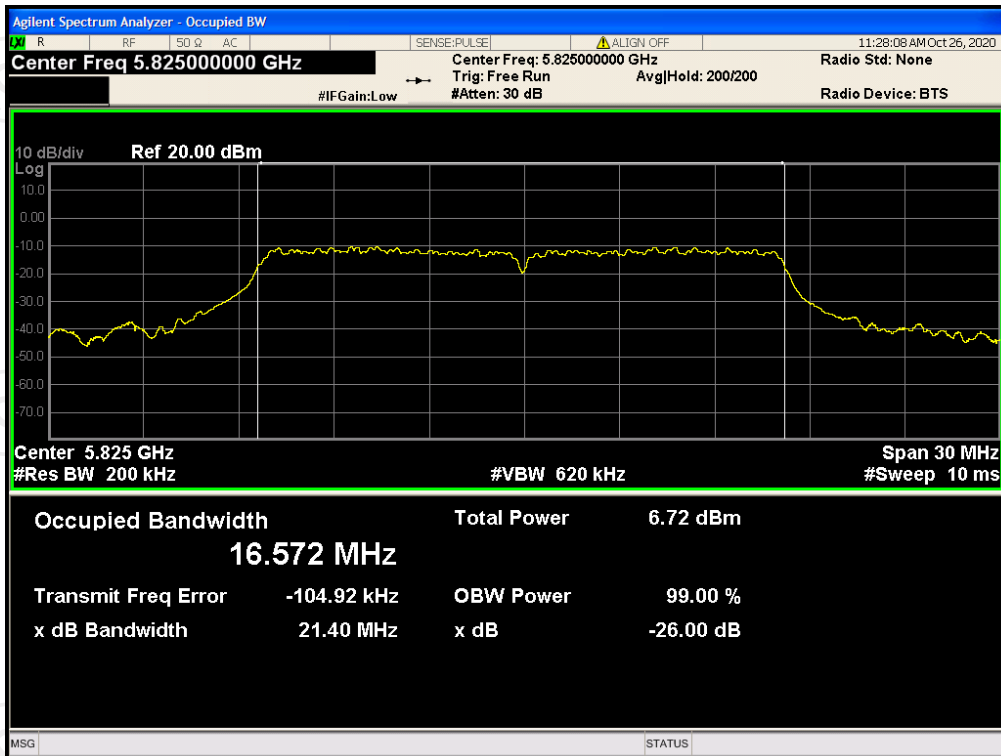
OBW NVNT 802.11a 5745MHz Ant0



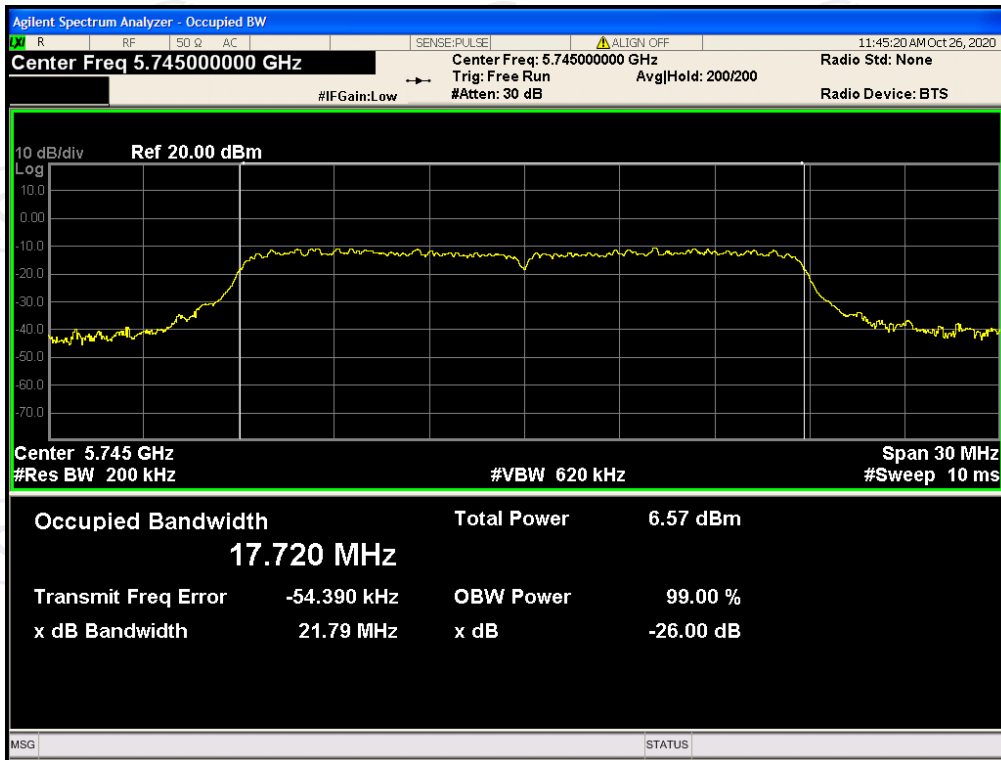
OBW NVNT 802.11a 5785MHz Ant0



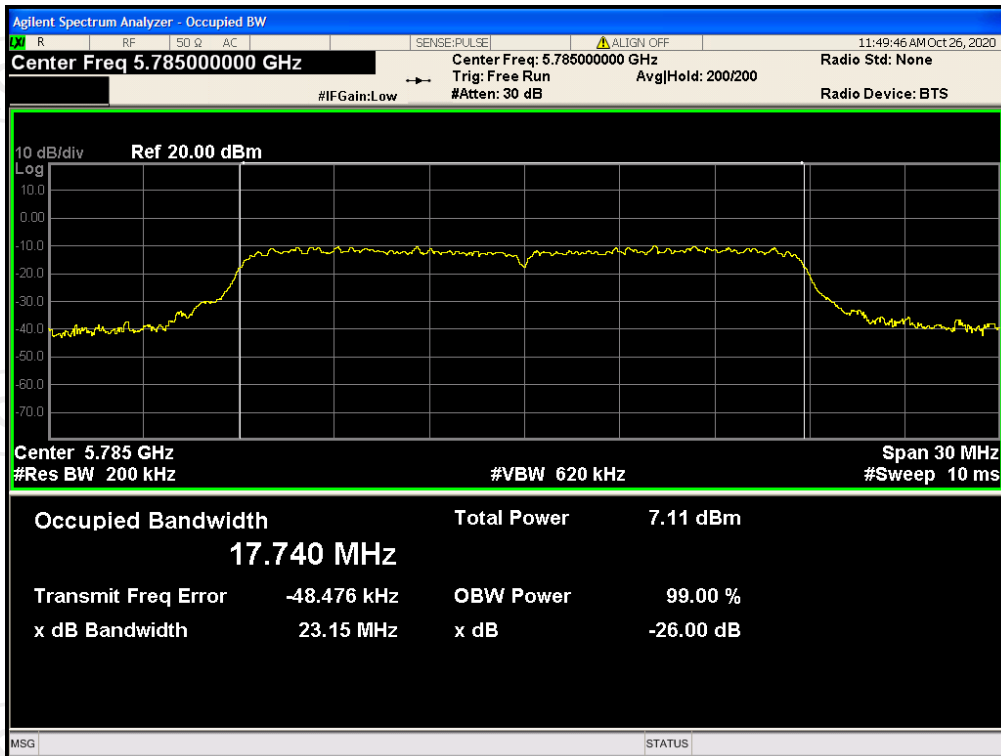
OBW NVNT 802.11a 5825MHz Ant0



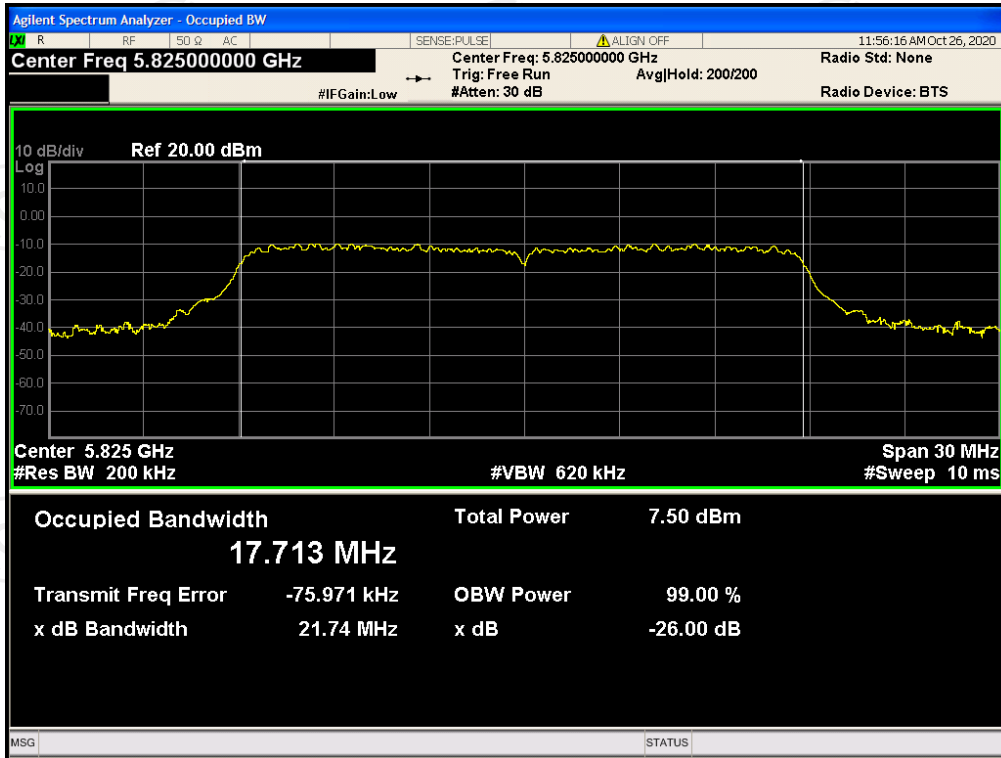
OBW NVNT 802.11ac20 5745MHz Ant0



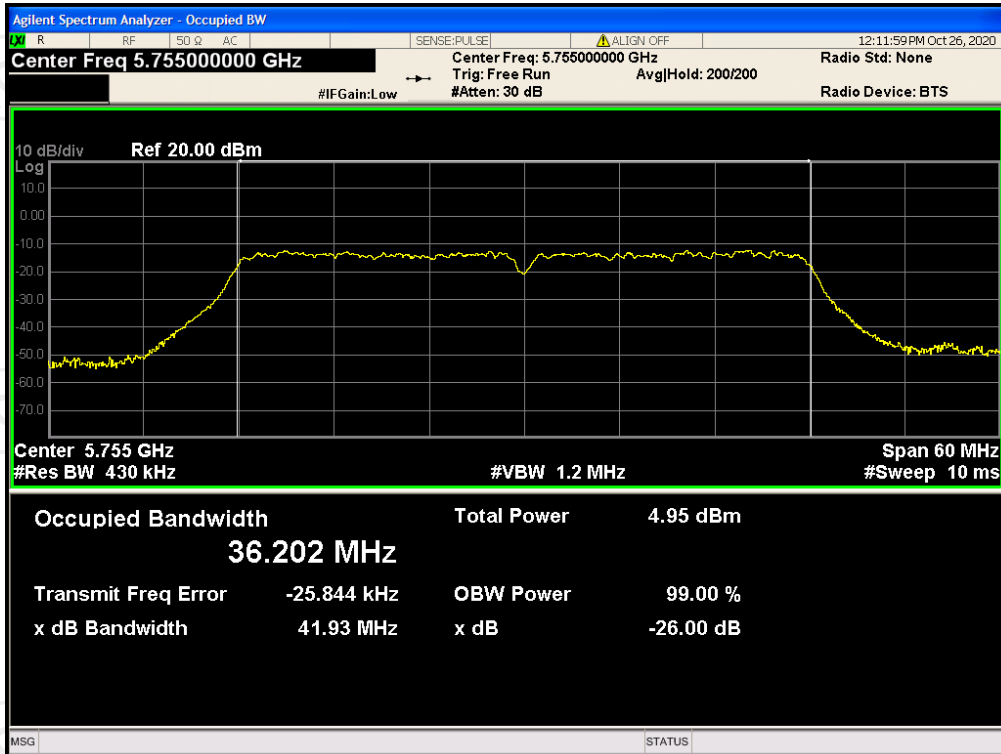
OBW NVNT 802.11ac20 5785MHz Ant0



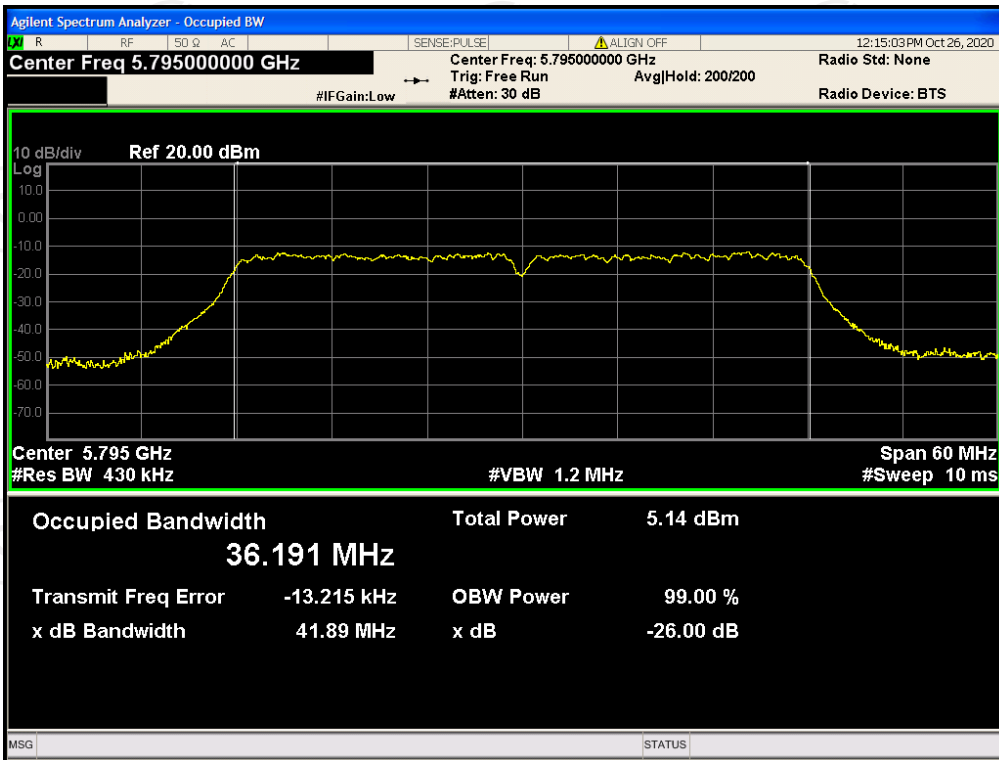
OBW NVNT 802.11ac20 5825MHz Ant0



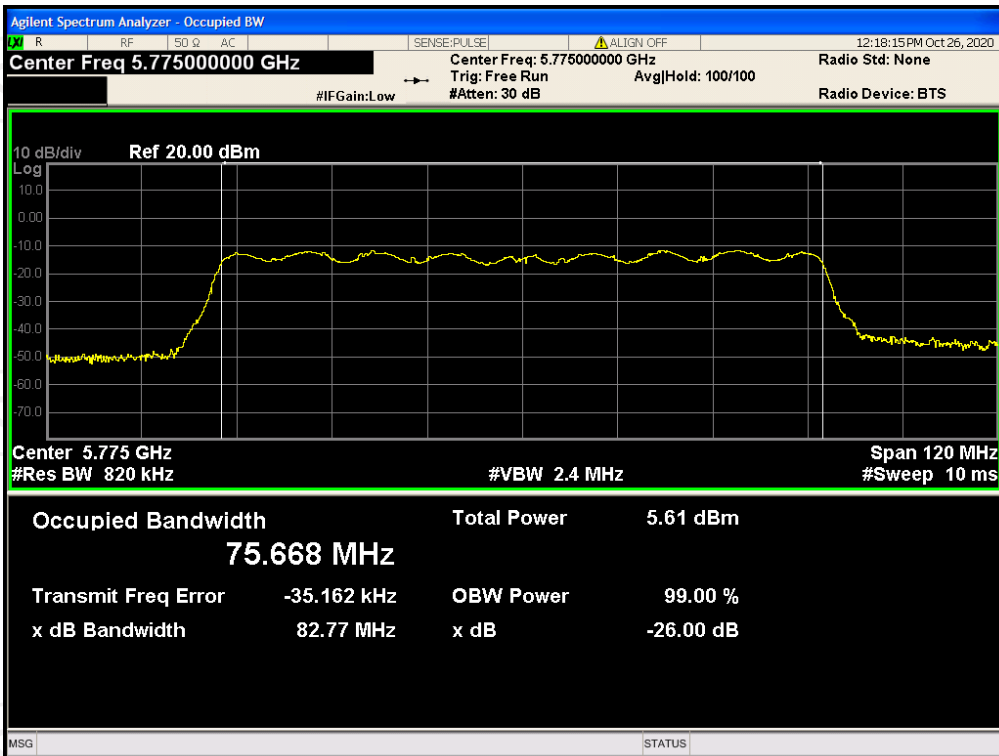
OBW NVNT 802.11ac40 5755MHz Ant0



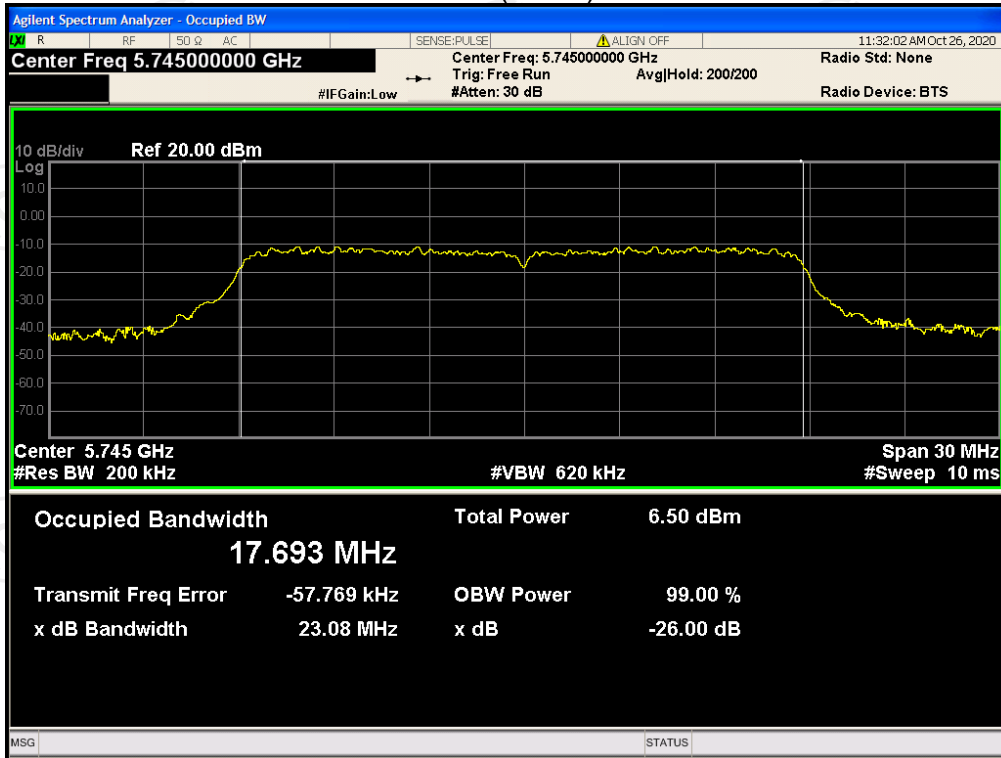
OBW NVNT 802.11ac40 5795MHz Ant0



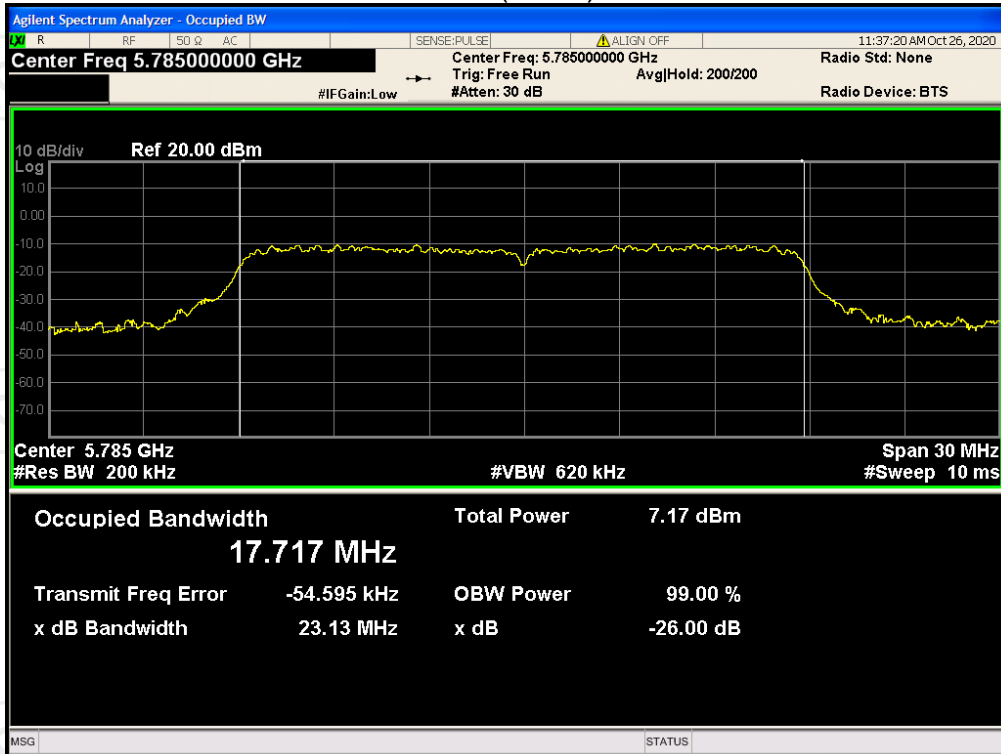
OBW NVNT 802.11ac80 5775MHz Ant0



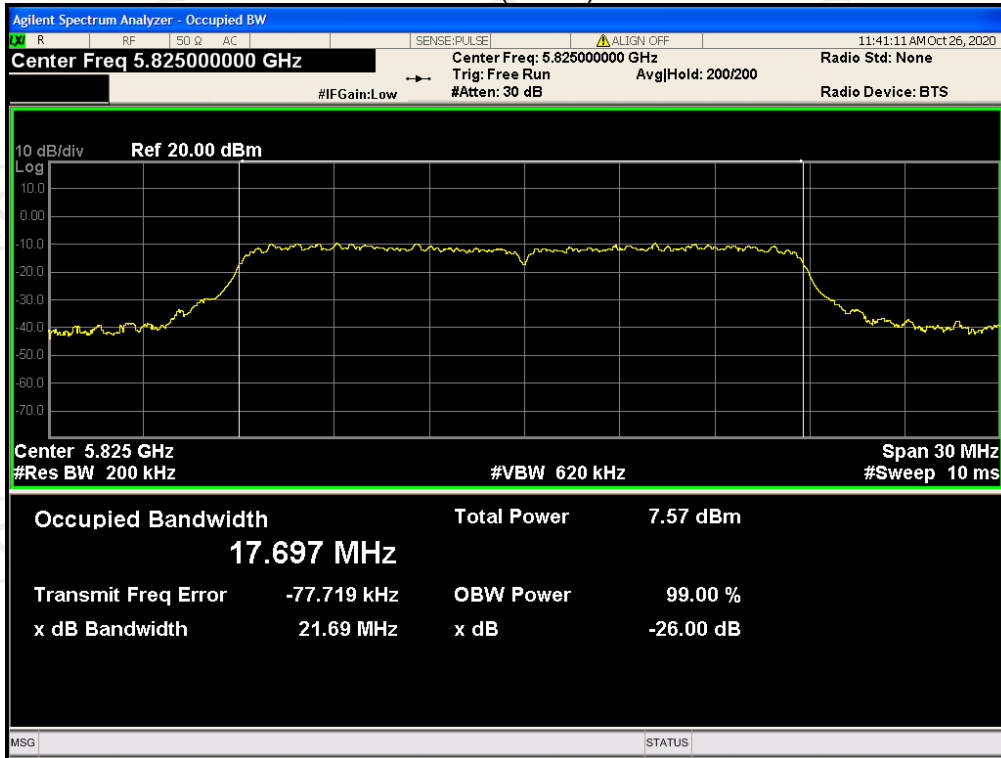
OBW NVNT 802.11n(HT20) 5745MHz Ant0



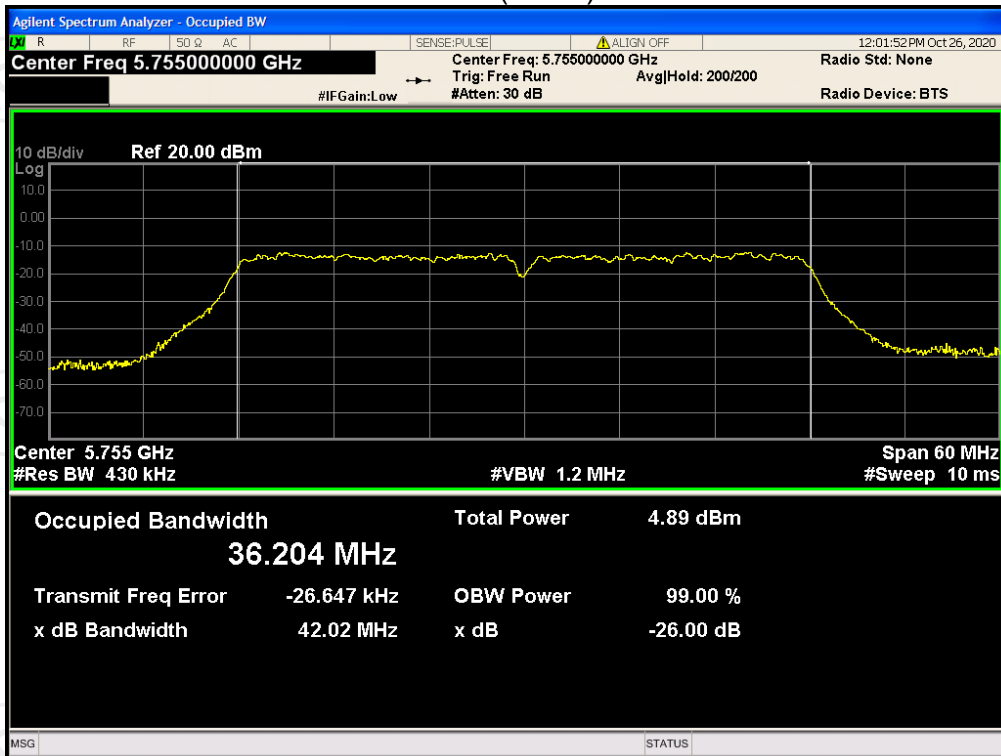
OBW NVNT 802.11n(HT20) 5785MHz Ant0



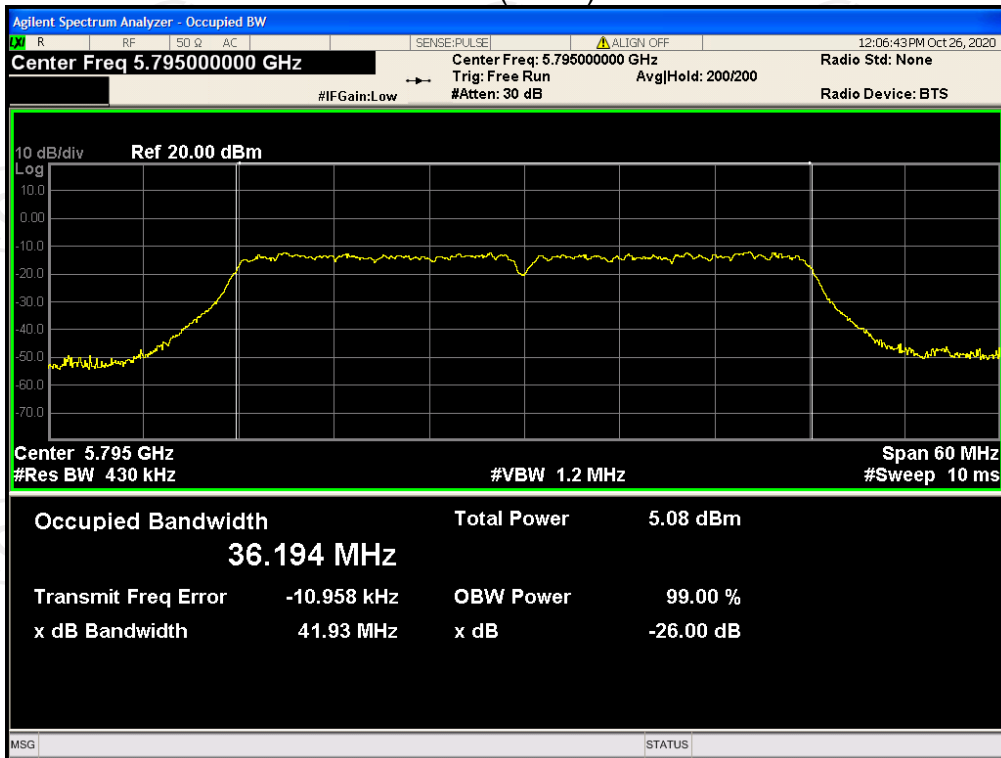
OBW NVNT 802.11n(HT20) 5825MHz Ant0



OBW NVNT 802.11n(HT40) 5755MHz Ant0



OBW NVNT 802.11n(HT40) 5795MHz Ant0

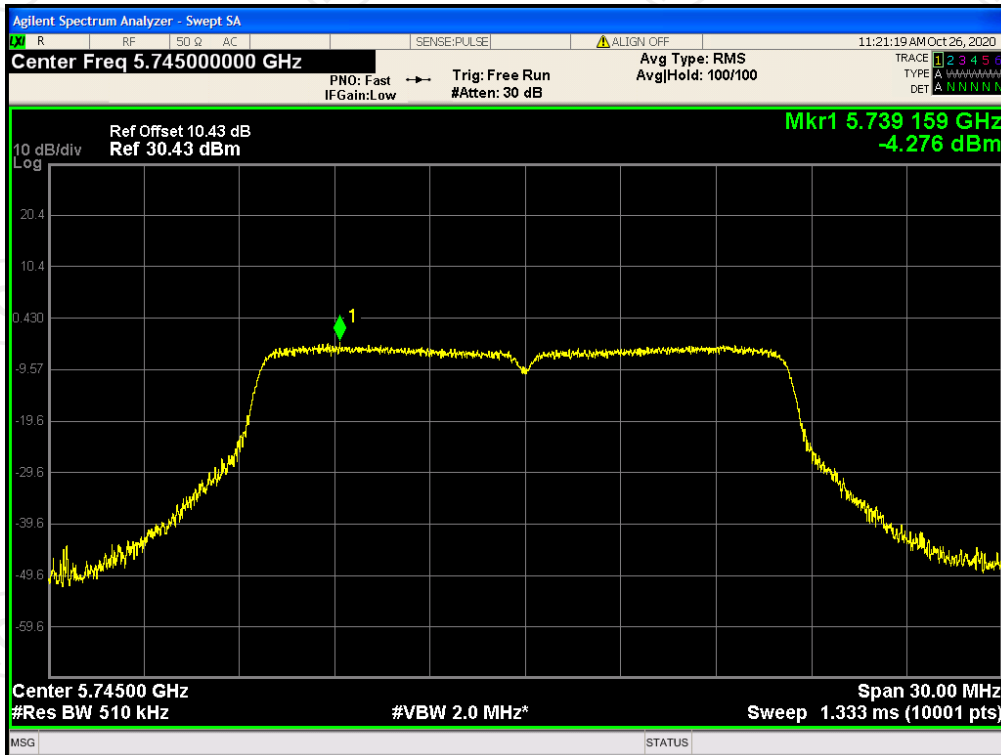


Maximum Power Spectral Density Level

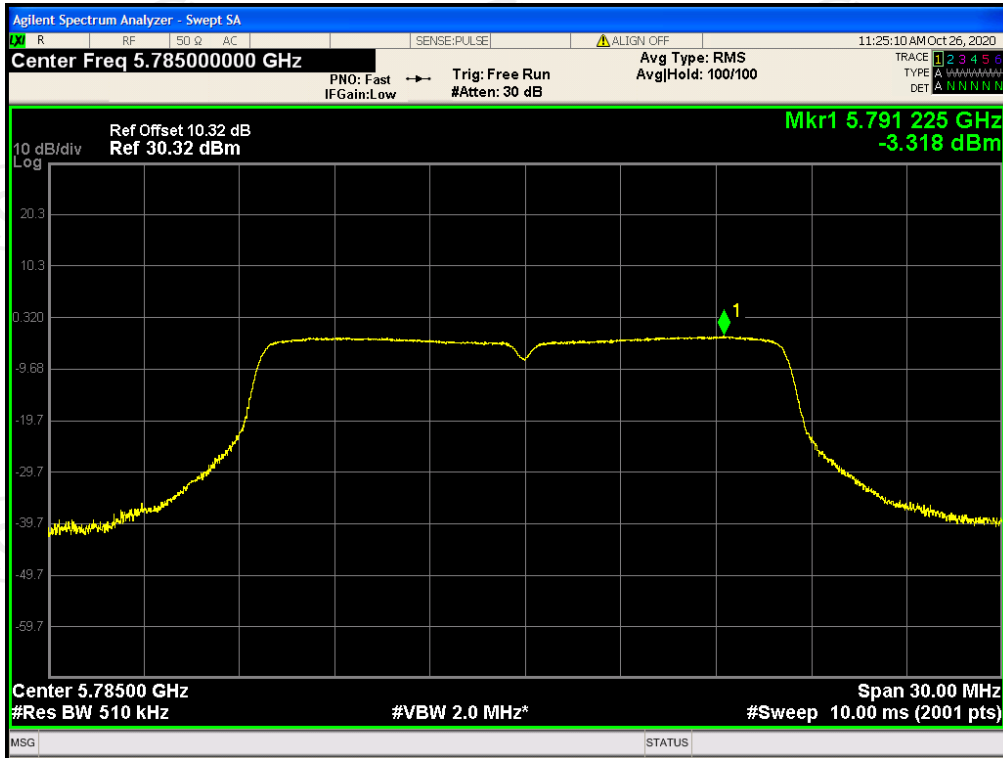
Mode	Frequency (MHz)	Max PSD(510kHz) (dBm)	Max PSD(500kHz) (dBm)	Limit (dBm)	Verdict
802.11a	5745	-4.276	-4.362	30	Pass
802.11a	5785	-3.318	-3.404	30	Pass
802.11a	5825	-3.172	-3.258	30	Pass
802.11ac20	5745	-3.235	-3.321	30	Pass
802.11ac20	5785	-2.772	-2.858	30	Pass
802.11ac20	5825	-2.572	-2.658	30	Pass
802.11ac40	5755	-8.621	-8.707	30	Pass
802.11ac40	5795	-8.380	-8.466	30	Pass
802.11ac80	5775	-10.596	-10.682	30	Pass
802.11n(HT20)	5745	-3.374	-3.460	30	Pass
802.11n(HT20)	5785	-2.734	-2.820	30	Pass
802.11n(HT20)	5825	-2.221	-2.307	30	Pass
802.11n(HT40)	5755	-8.902	-4.362	30	Pass
802.11n(HT40)	5795	-7.878	-3.404	30	Pass

Note: Compensate 10dB is for Exchange rate of RBW
 Exchange rate of RBW = $10 * \log_{10}(500\text{kHz} / \text{RBW at measurement}) \approx -0.086[\text{dB}]$
 where Reference bandwidth = 510 KHz

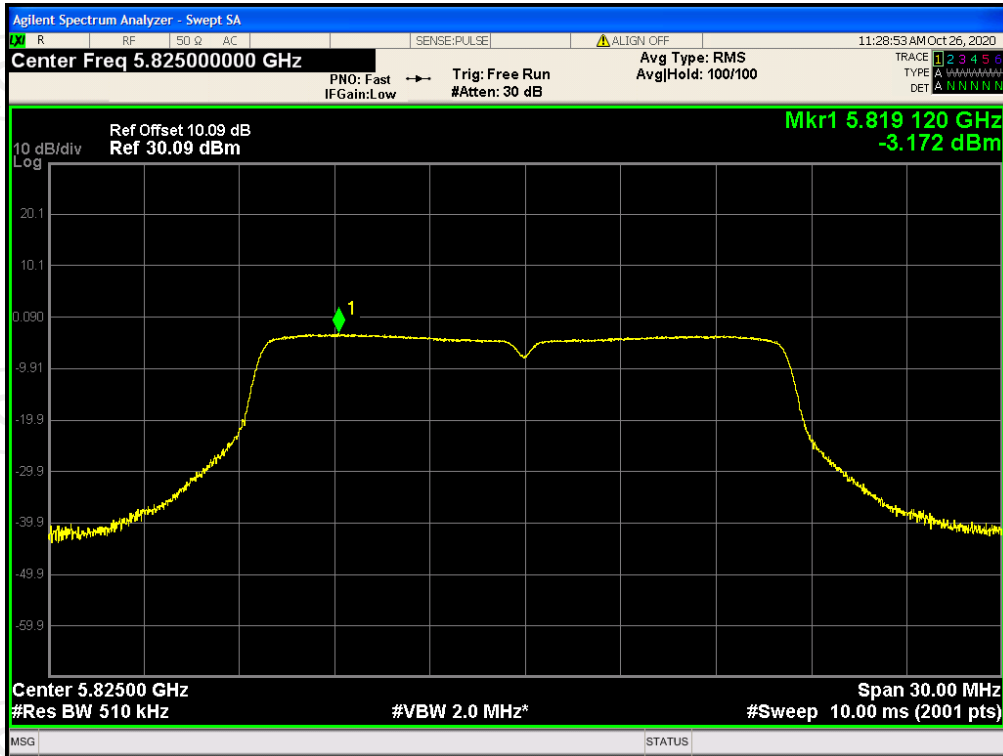
PSD NVNT 802.11a 5745MHz Ant0



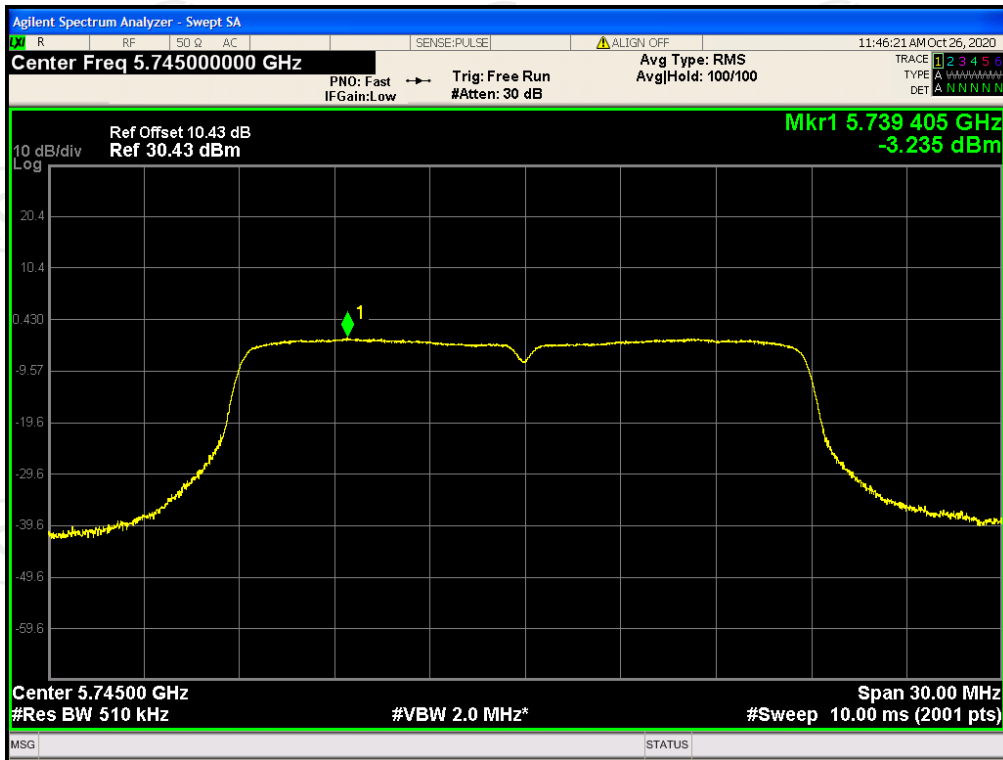
PSD NVNT 802.11a 5785MHz Ant0



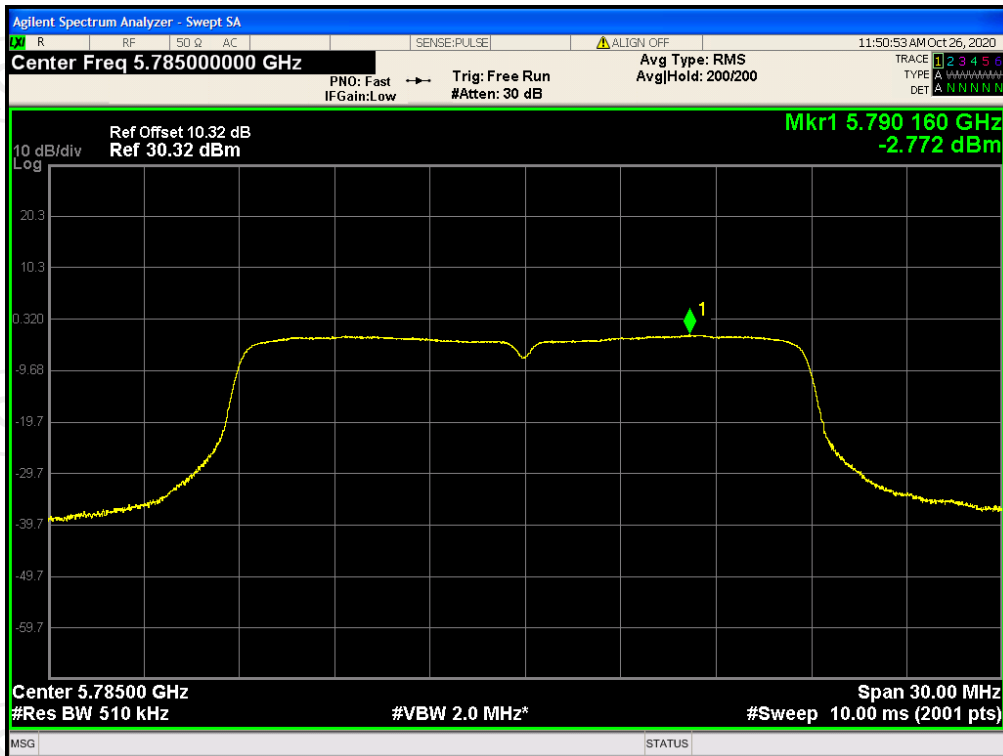
PSD NVNT 802.11a 5825MHz Ant0



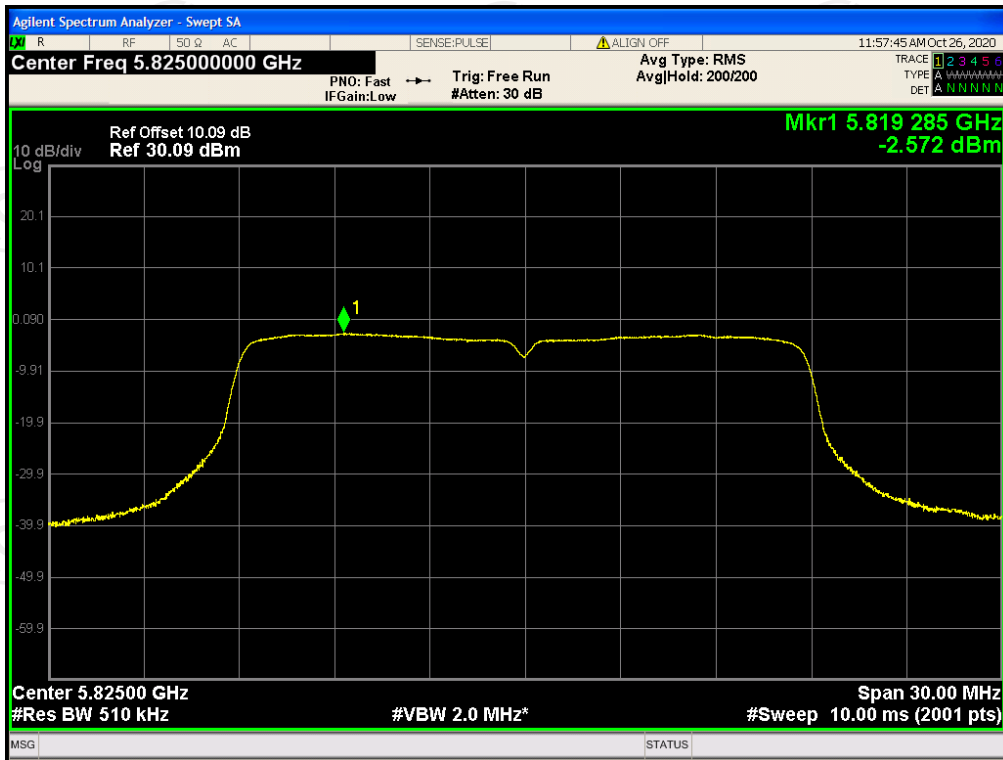
PSD NVNT 802.11ac20 5745MHz Ant0



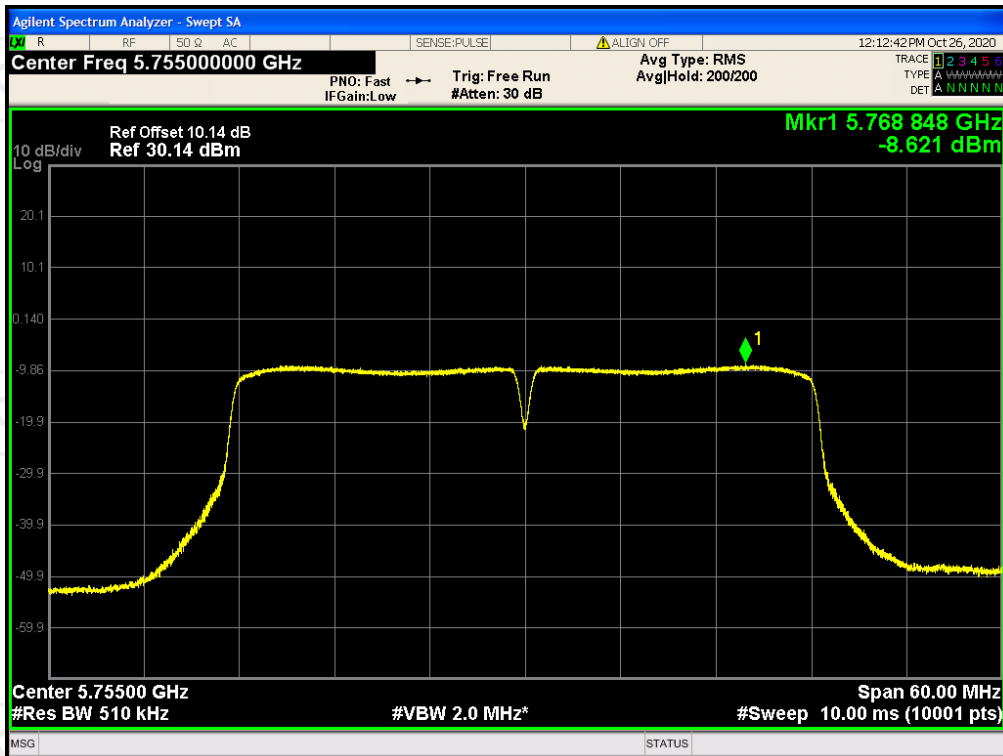
PSD NVNT 802.11ac20 5785MHz Ant0



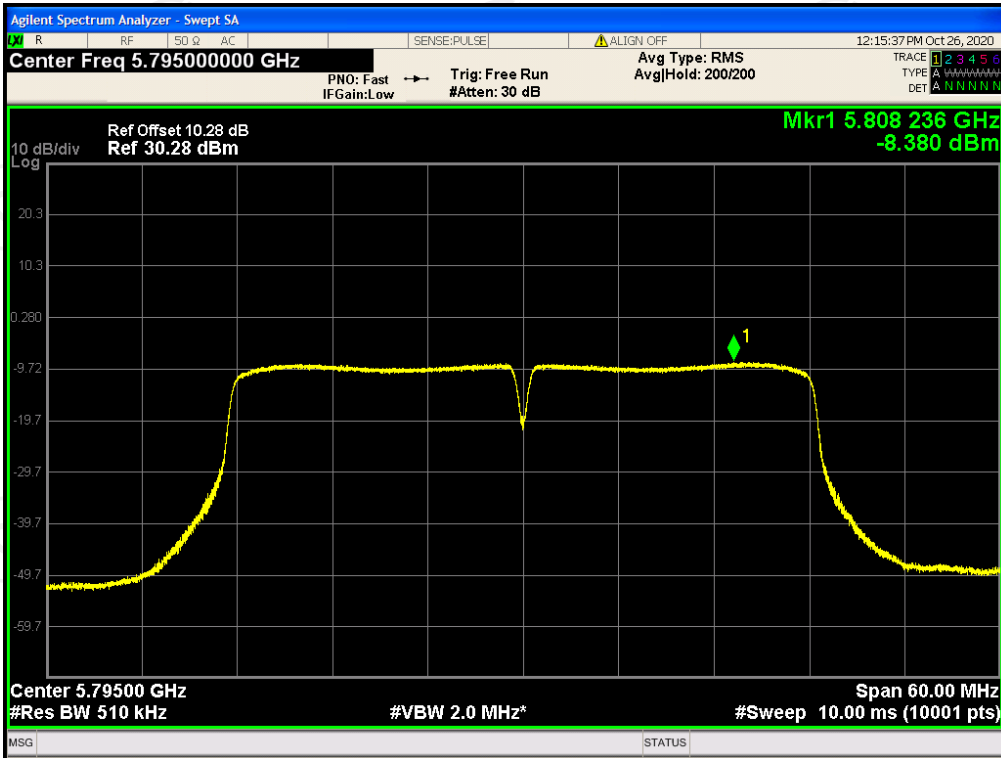
PSD NVNT 802.11ac20 5825MHz Ant0



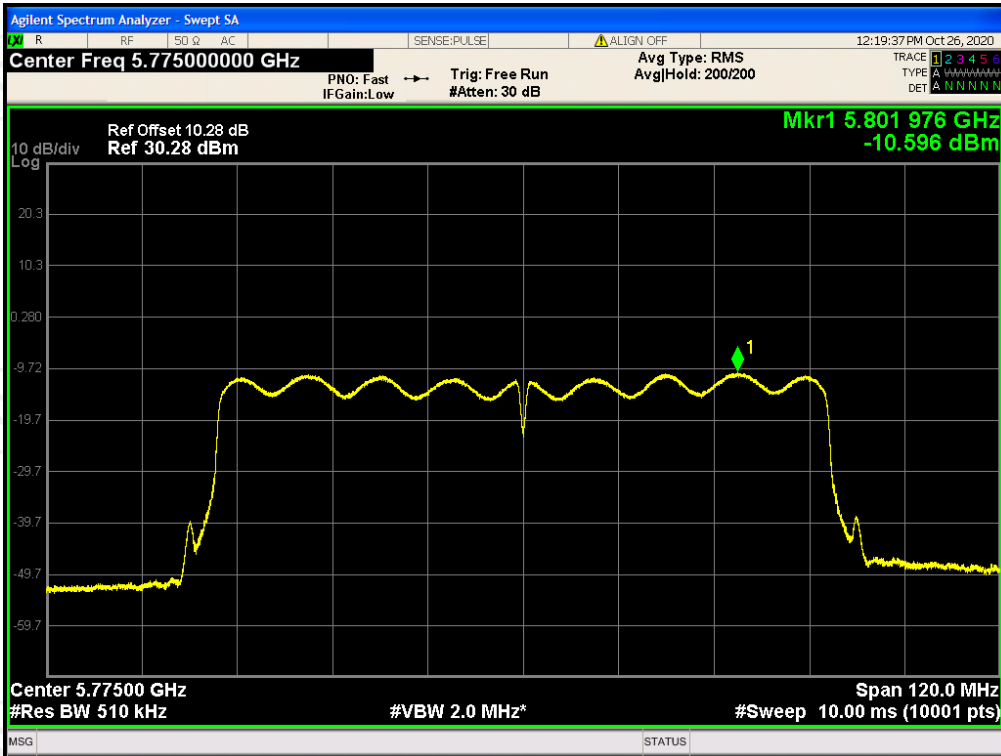
PSD NVNT 802.11ac40 5755MHz Ant0



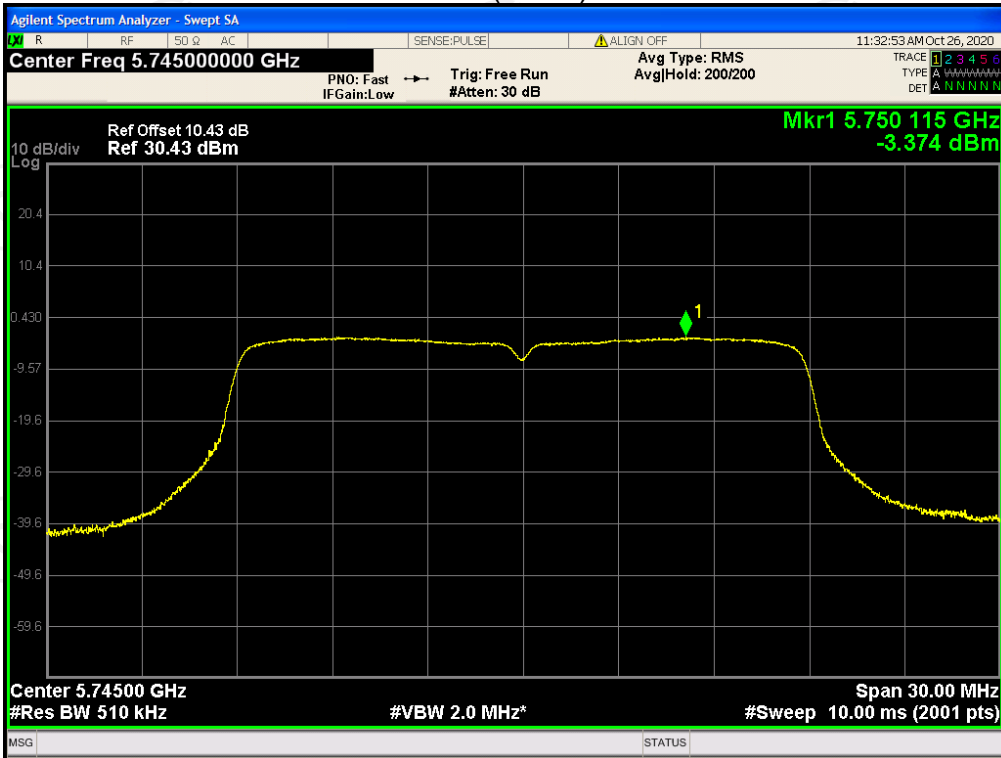
PSD NVNT 802.11ac40 5795MHz Ant0



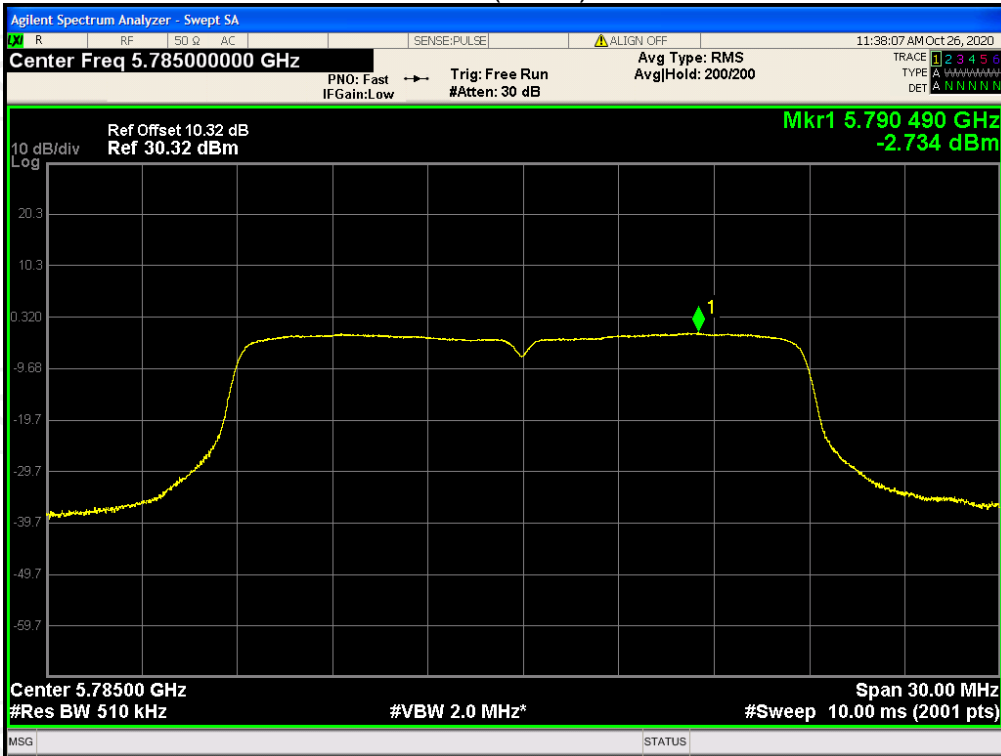
PSD NVNT 802.11ac80 5775MHz Ant0



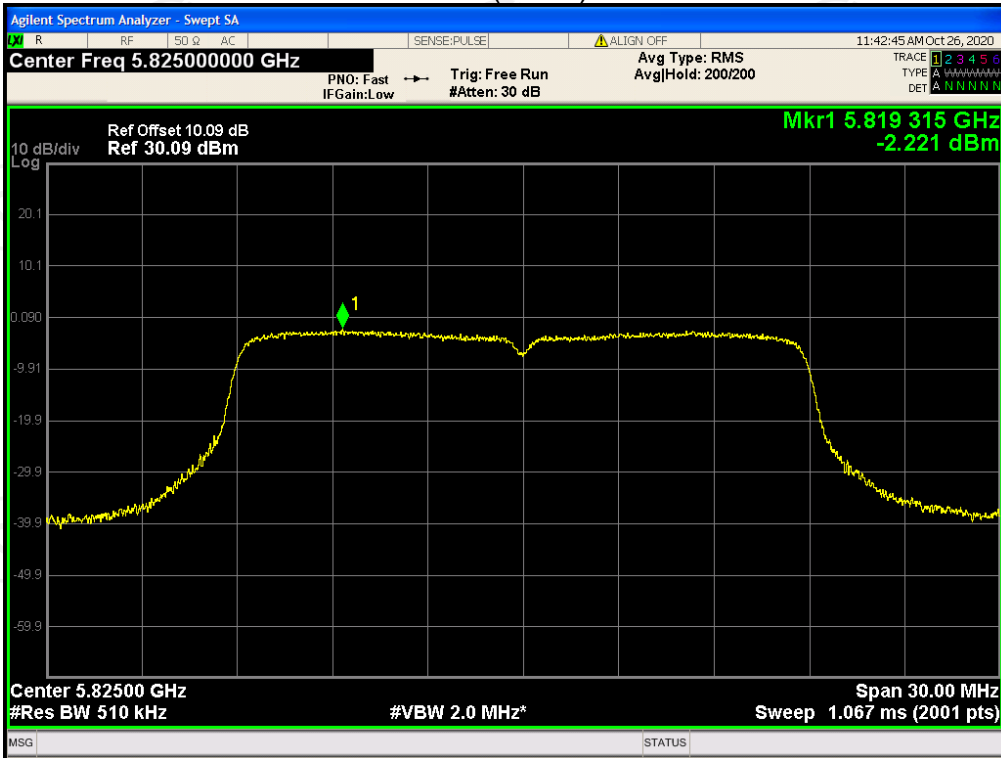
PSD NVNT 802.11n(HT20) 5745MHz Ant0



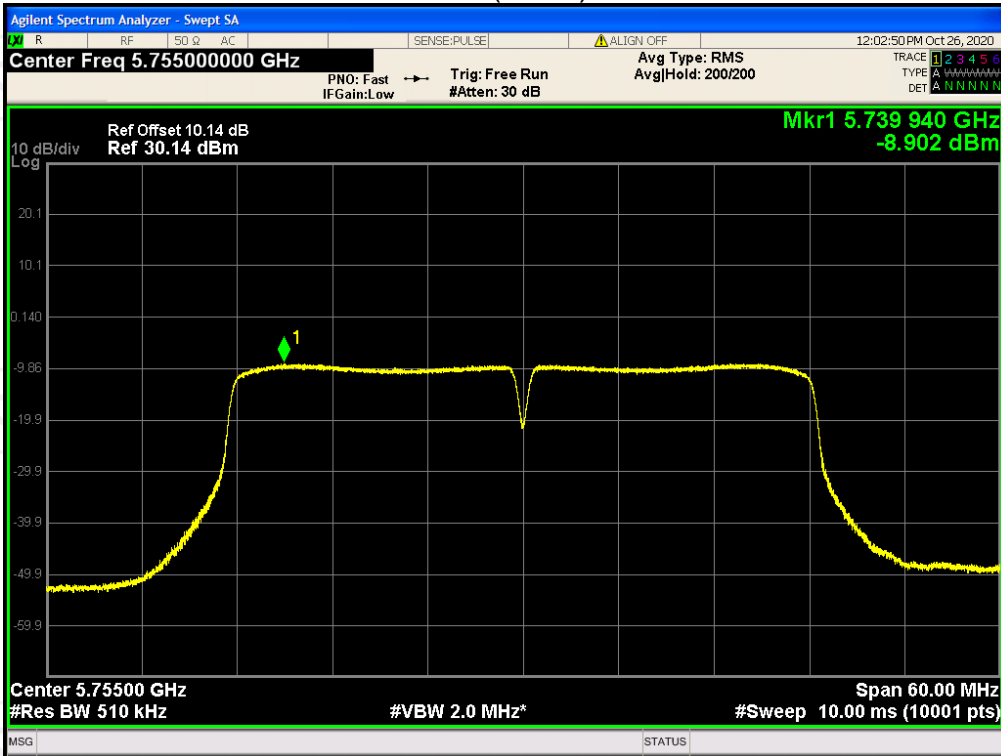
PSD NVNT 802.11n(HT20) 5785MHz Ant0



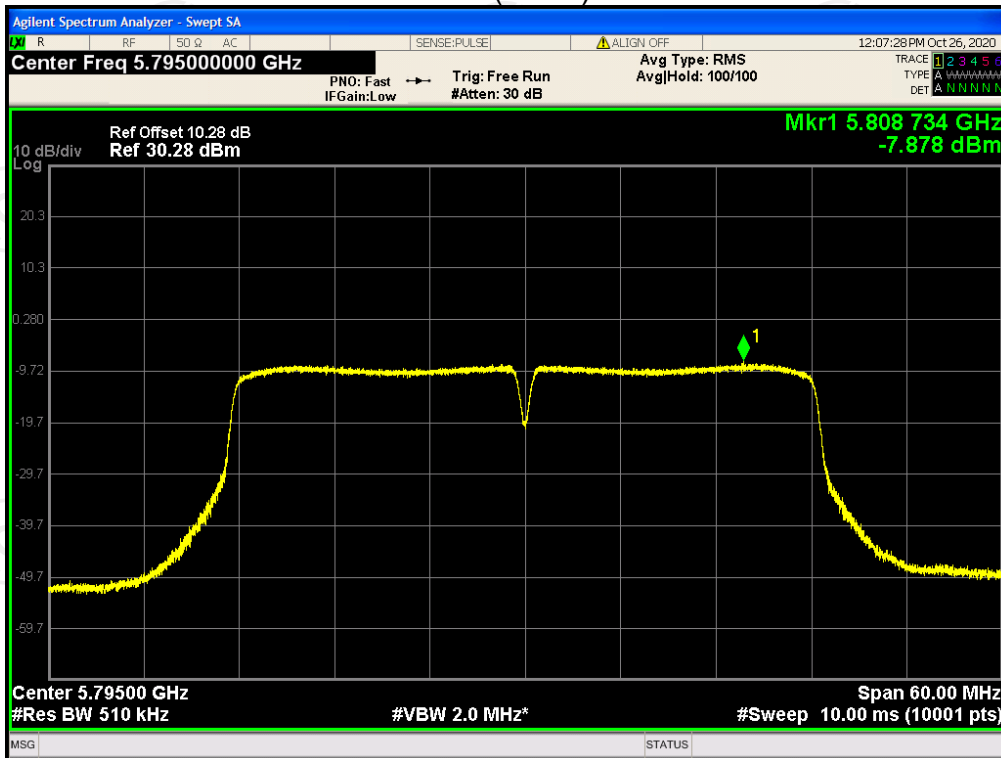
PSD NVNT 802.11n(HT20) 5825MHz Ant0



PSD NVNT 802.11n(HT40) 5755MHz Ant0



PSD NVNT 802.11n(HT40) 5795MHz Ant0

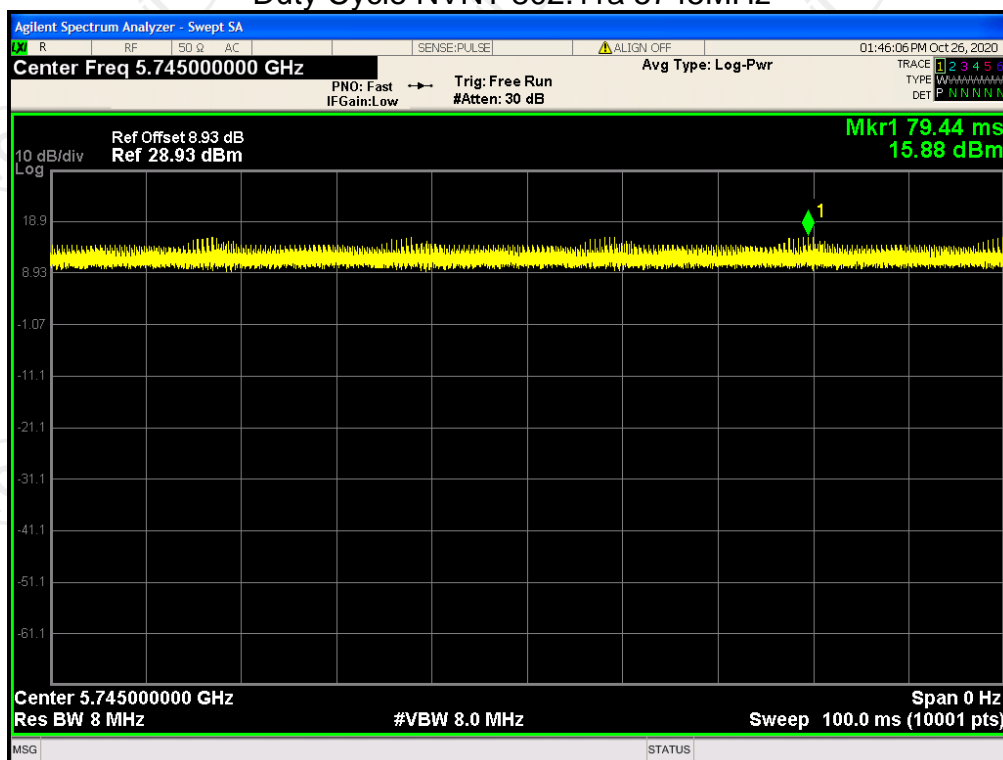


Antenna1:

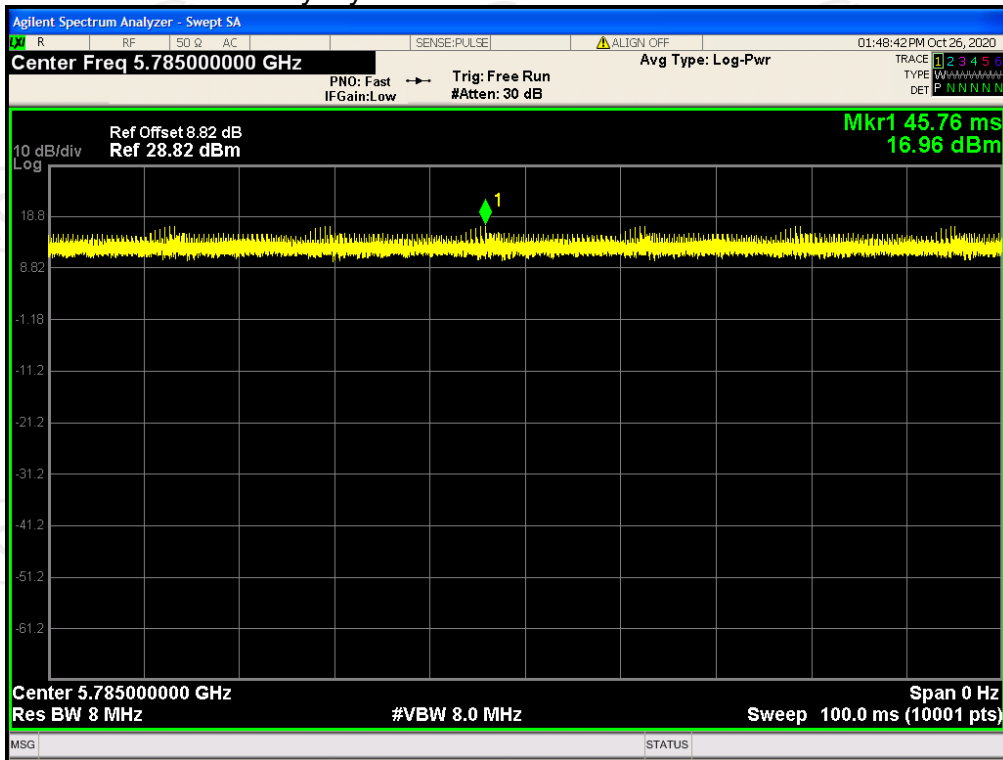
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11a	5745	100	0
NVNT	802.11a	5785	100	0
NVNT	802.11a	5825	100	0
NVNT	802.11ac20	5745	100	0
NVNT	802.11ac20	5785	100	0
NVNT	802.11ac20	5825	100	0
NVNT	802.11ac40	5755	100	0
NVNT	802.11ac40	5795	100	0
NVNT	802.11ac80	5775	100	0
NVNT	802.11n(HT20)	5745	100	0
NVNT	802.11n(HT20)	5785	100	0
NVNT	802.11n(HT20)	5825	100	0
NVNT	802.11n(HT40)	5755	100	0
NVNT	802.11n(HT40)	5795	100	0

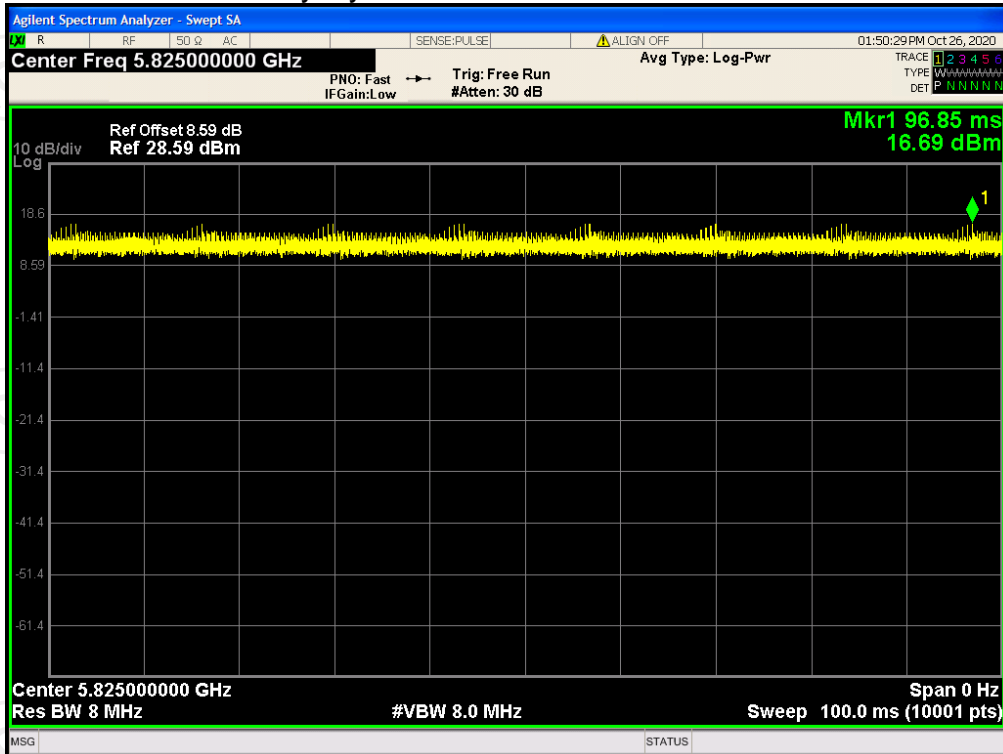
Duty Cycle NVNT 802.11a 5745MHz



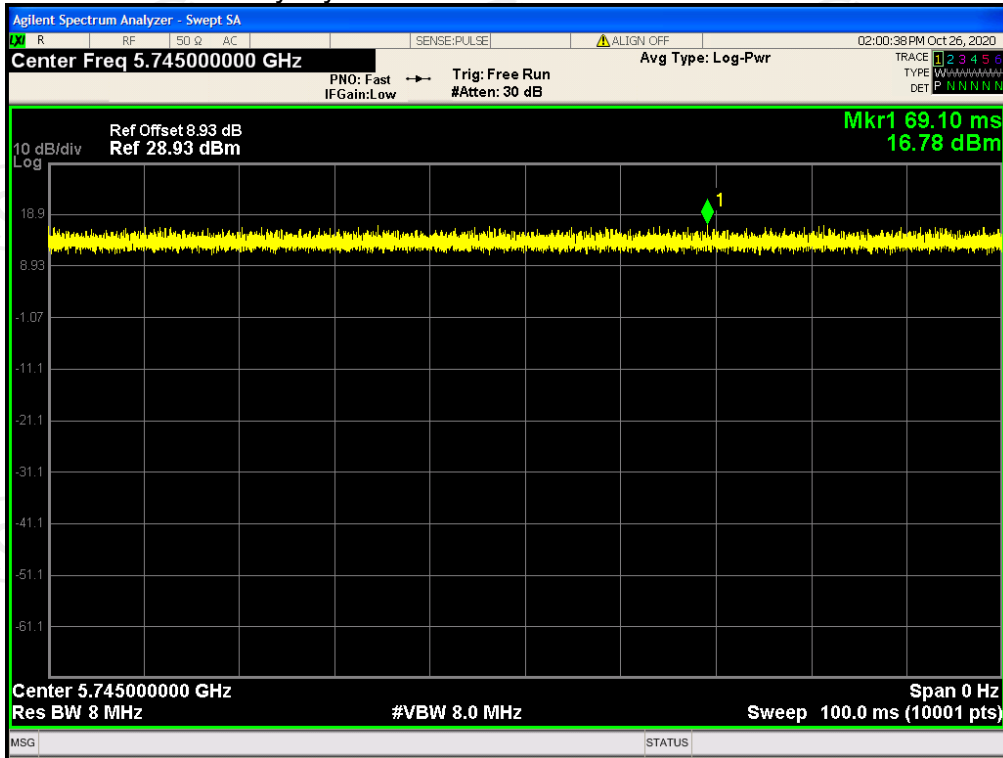
Duty Cycle NVNT 802.11a 5785MHz



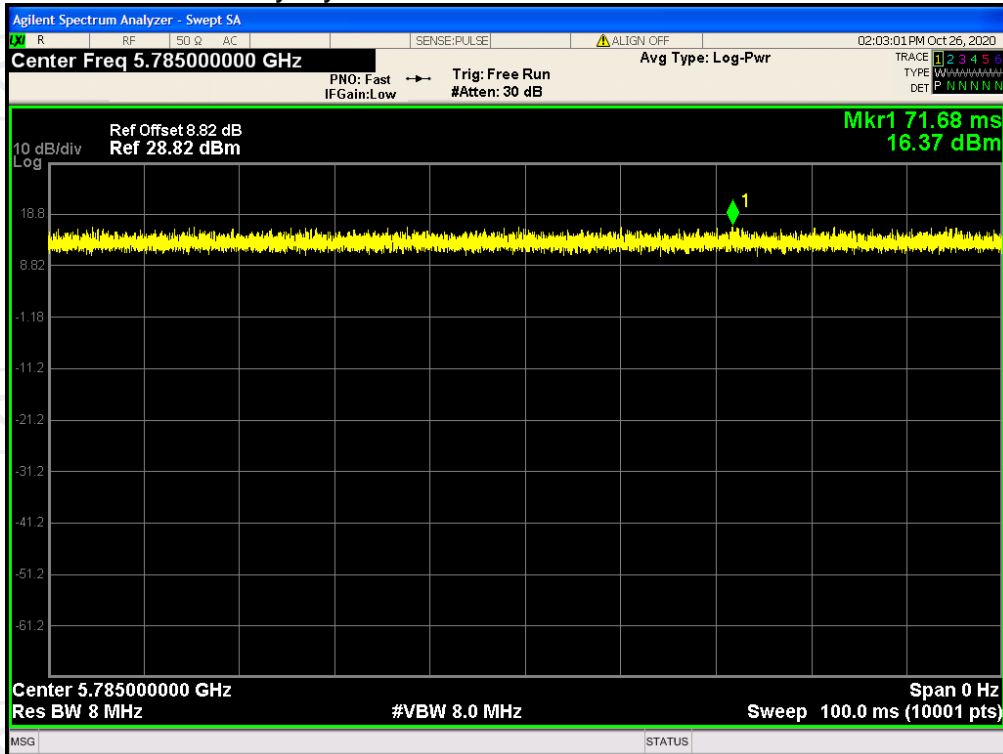
Duty Cycle NVNT 802.11a 5825MHz



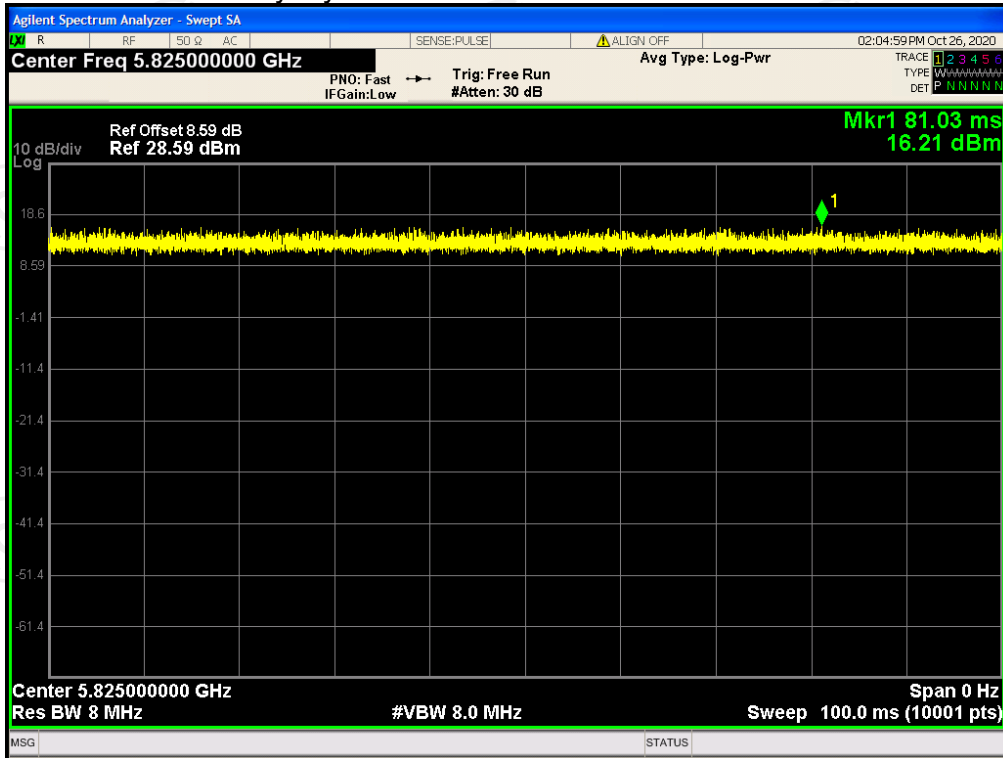
Duty Cycle NVNT 802.11ac20 5745MHz



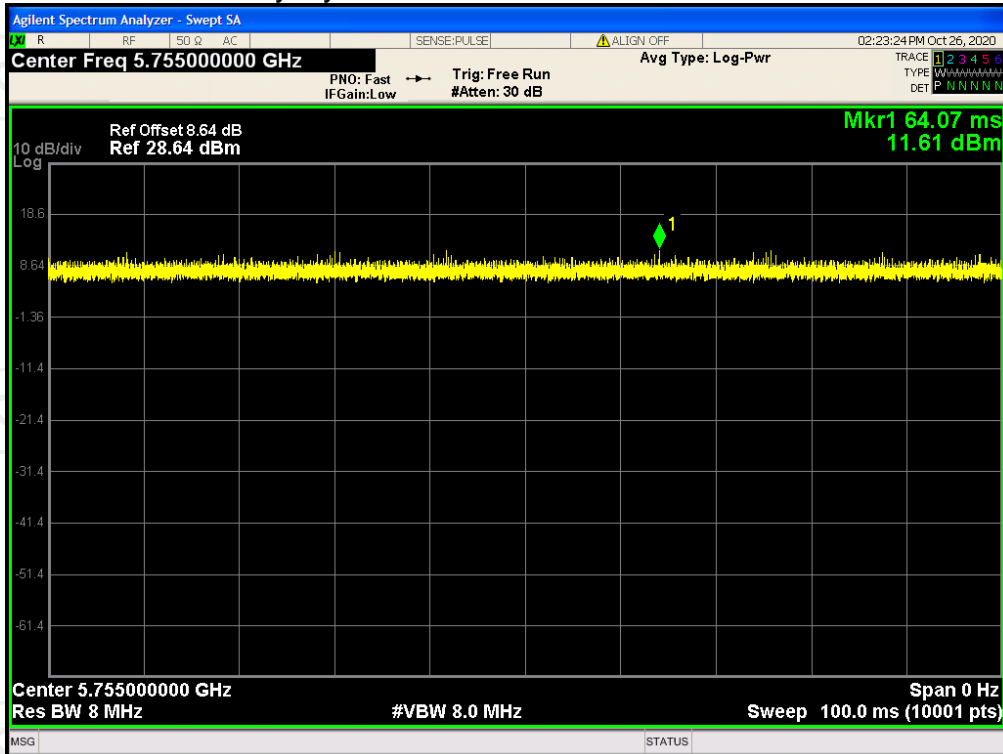
Duty Cycle NVNT 802.11ac20 5785MHz



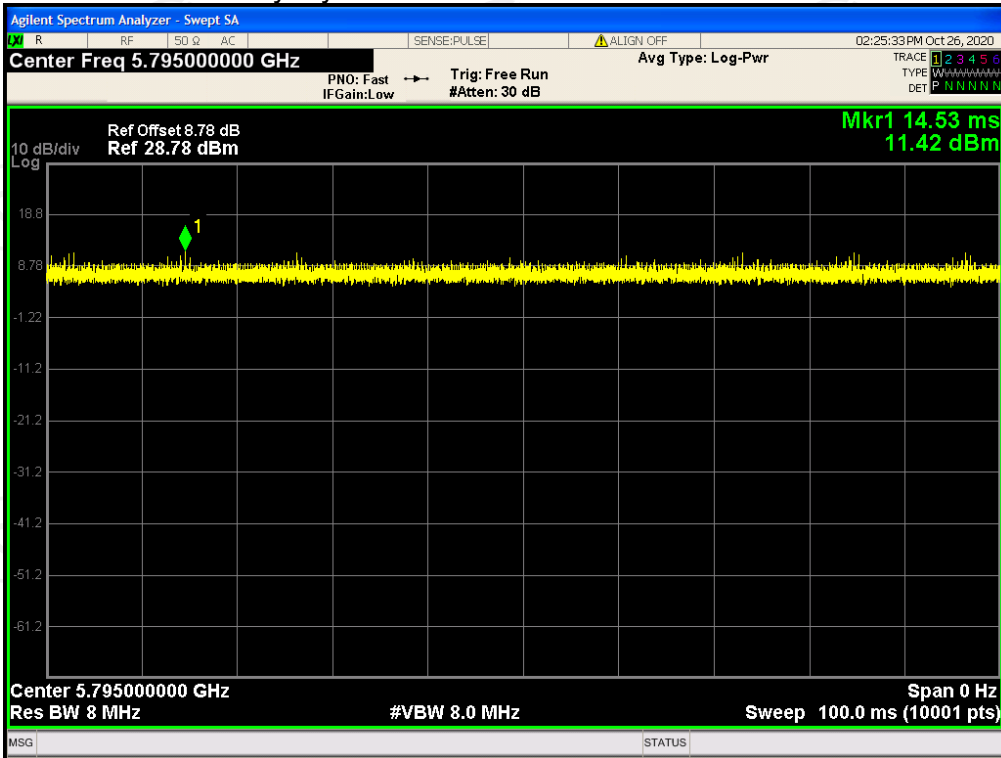
Duty Cycle NVNT 802.11ac20 5825MHz



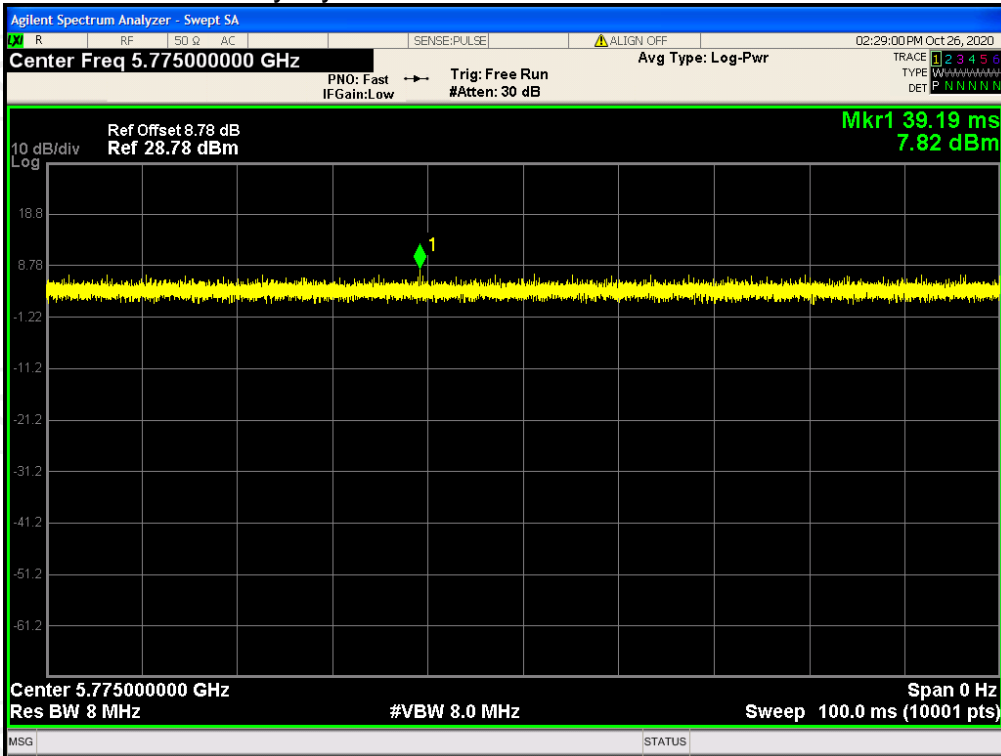
Duty Cycle NVNT 802.11ac40 5755MHz



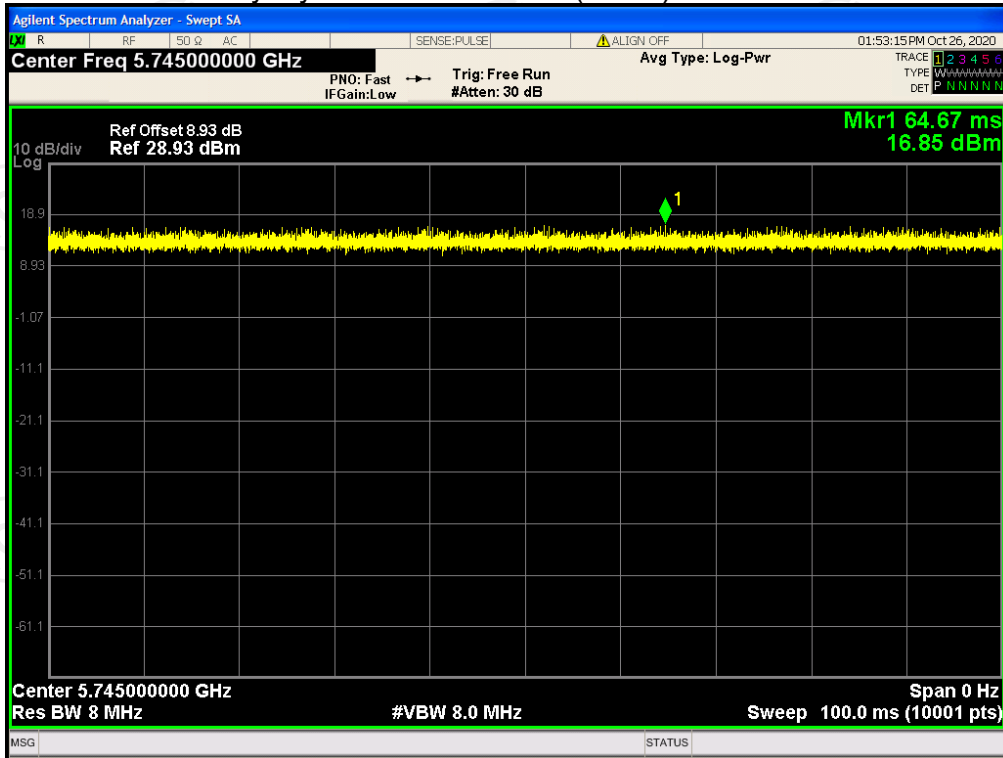
Duty Cycle NVNT 802.11ac40 5795MHz



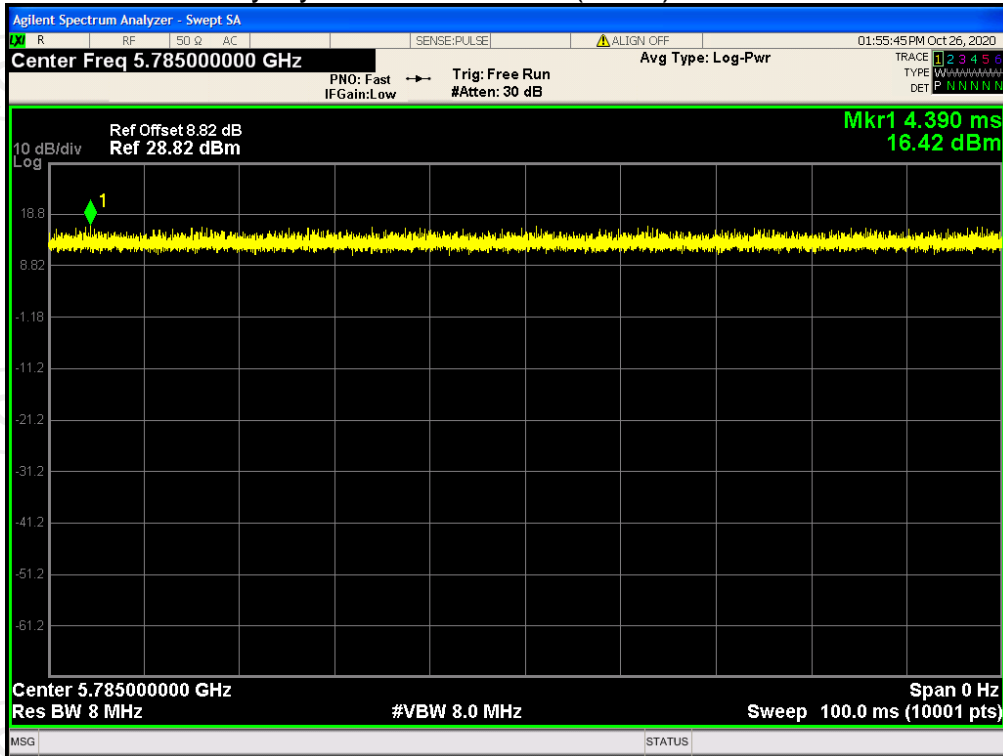
Duty Cycle NVNT 802.11ac80 5775MHz



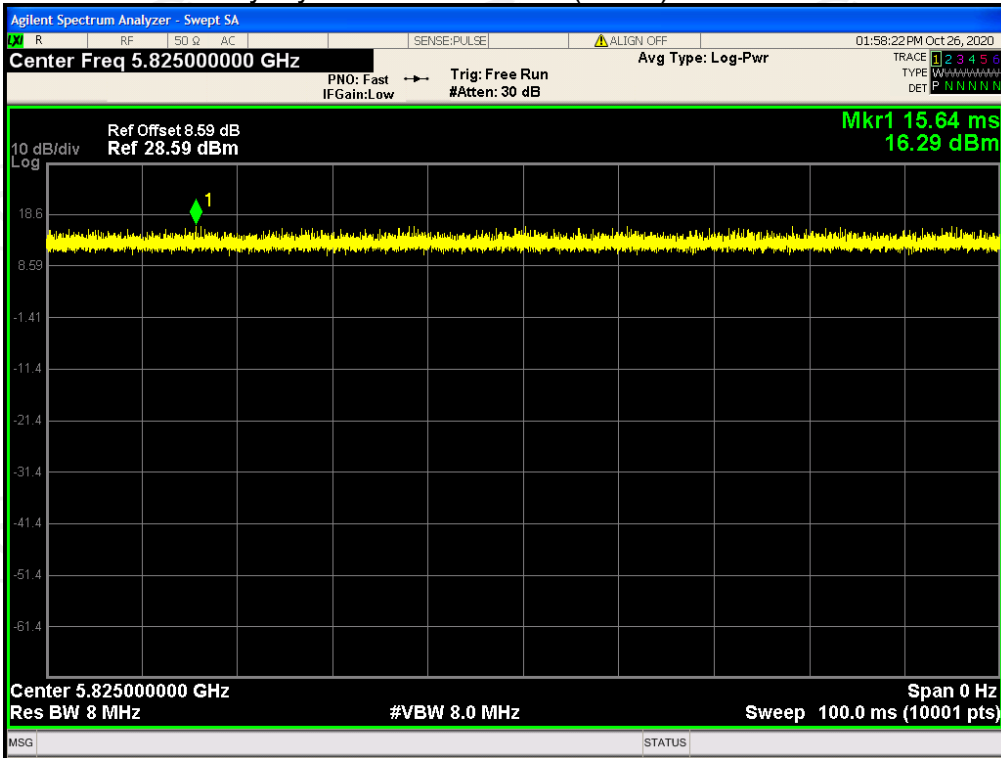
Duty Cycle NVNT 802.11n(HT20) 5745MHz



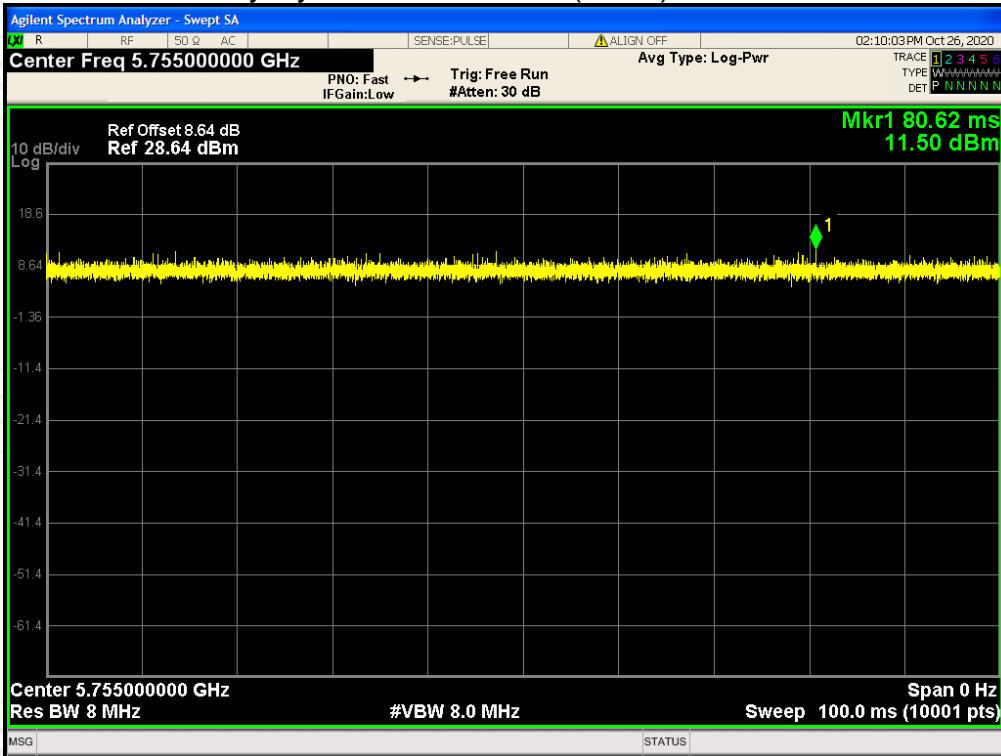
Duty Cycle NVNT 802.11n(HT20) 5785MHz



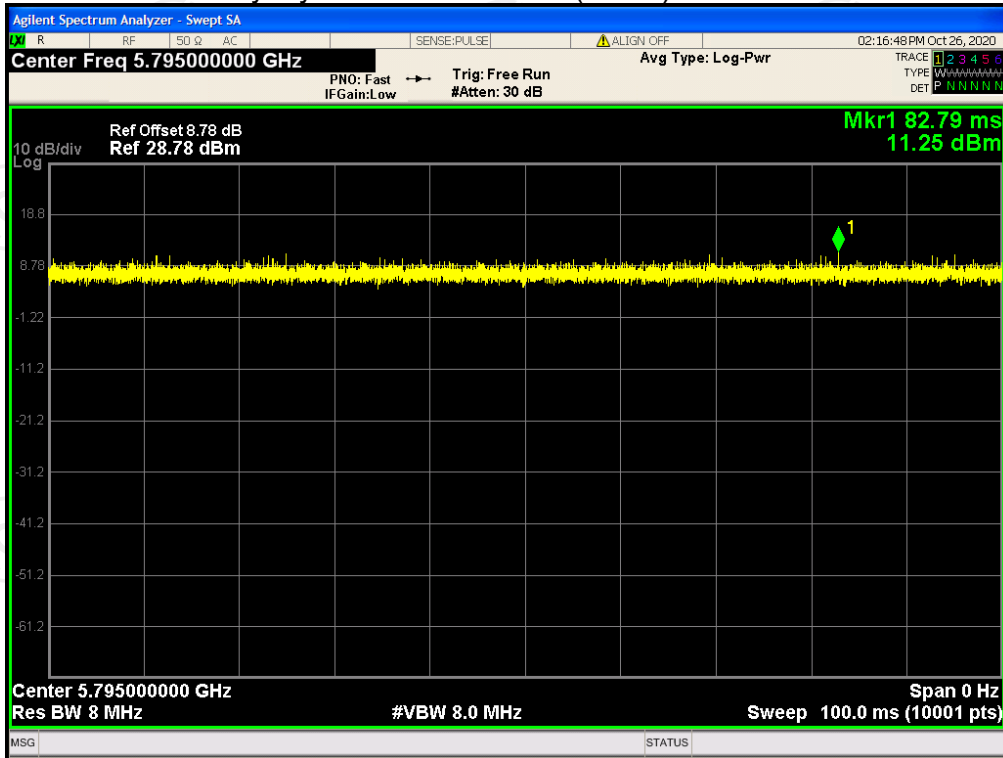
Duty Cycle NVNT 802.11n(HT20) 5825MHz



Duty Cycle NVNT 802.11n(HT40) 5755MHz



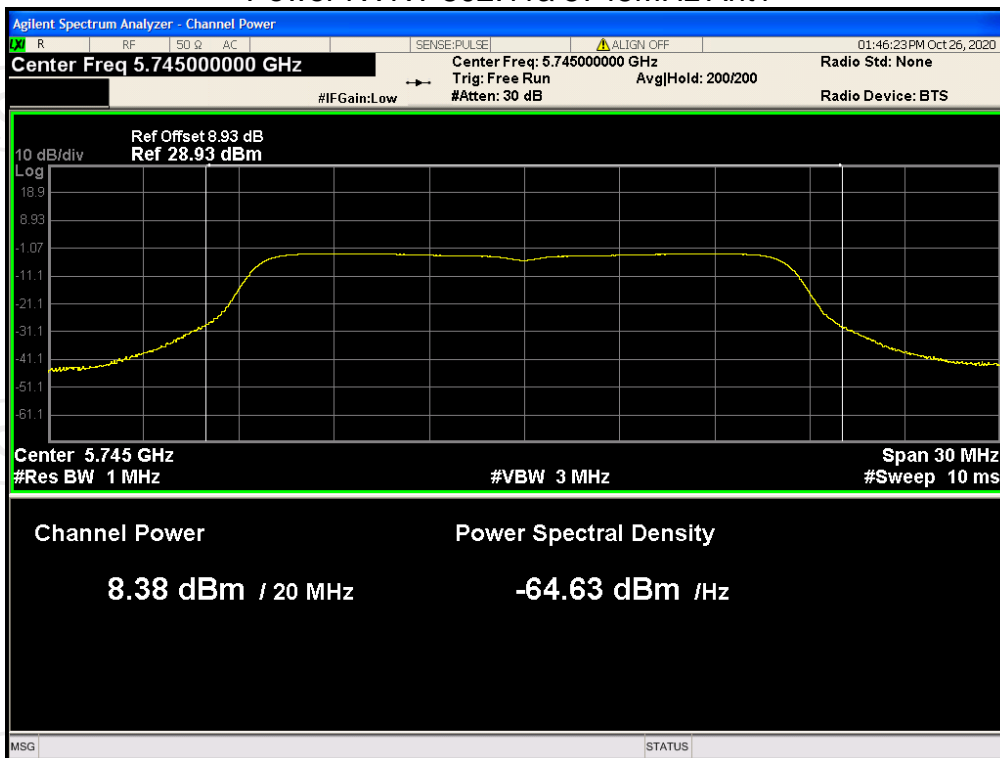
Duty Cycle NVNT 802.11n(HT40) 5795MHz



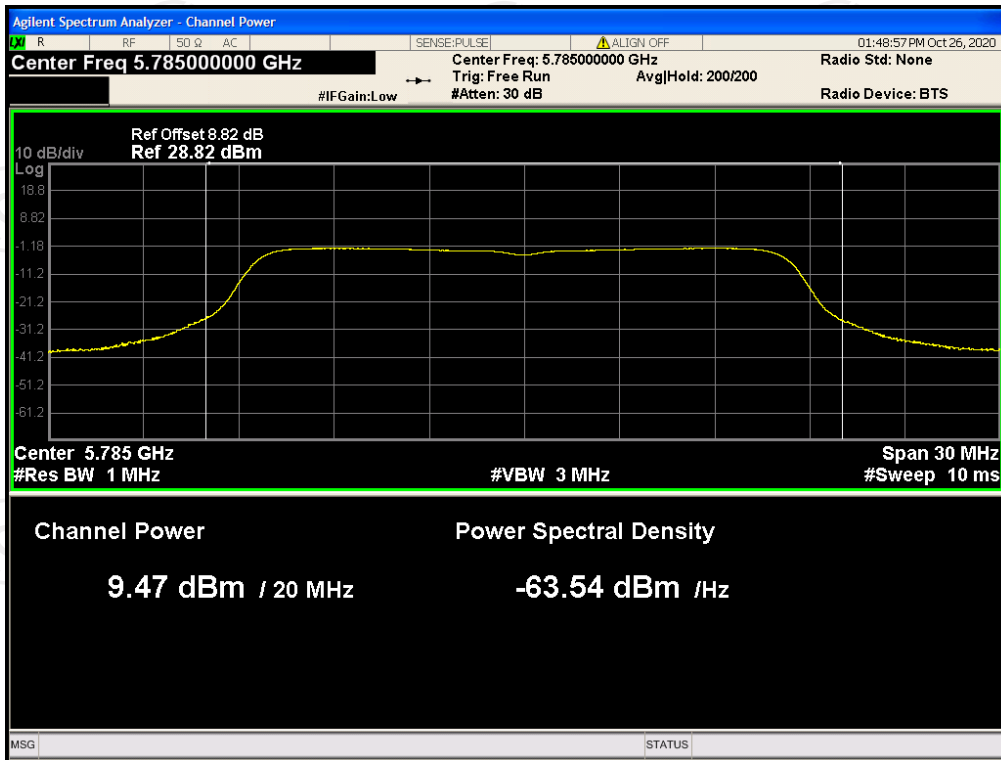
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5745	8.381	0	8.381	30	Pass
NVNT	802.11a	5785	9.471	0	9.471	30	Pass
NVNT	802.11a	5825	9.138	0	9.138	30	Pass
NVNT	802.11ac20	5745	10.111	0	10.111	30	Pass
NVNT	802.11ac20	5785	9.995	0	9.995	30	Pass
NVNT	802.11ac20	5825	9.749	0	9.749	30	Pass
NVNT	802.11ac40	5755	4.475	0	4.475	30	Pass
NVNT	802.11ac40	5795	4.128	0	4.128	30	Pass
NVNT	802.11ac80	5775	7.223	0	7.223	30	Pass
NVNT	802.11n(HT20)	5745	10.217	0	10.217	30	Pass
NVNT	802.11n(HT20)	5785	10.017	0	10.017	30	Pass
NVNT	802.11n(HT20)	5825	9.811	0	9.811	30	Pass
NVNT	802.11n(HT40)	5755	4.444	0	4.444	30	Pass
NVNT	802.11n(HT40)	5795	4.137	0	4.137	30	Pass

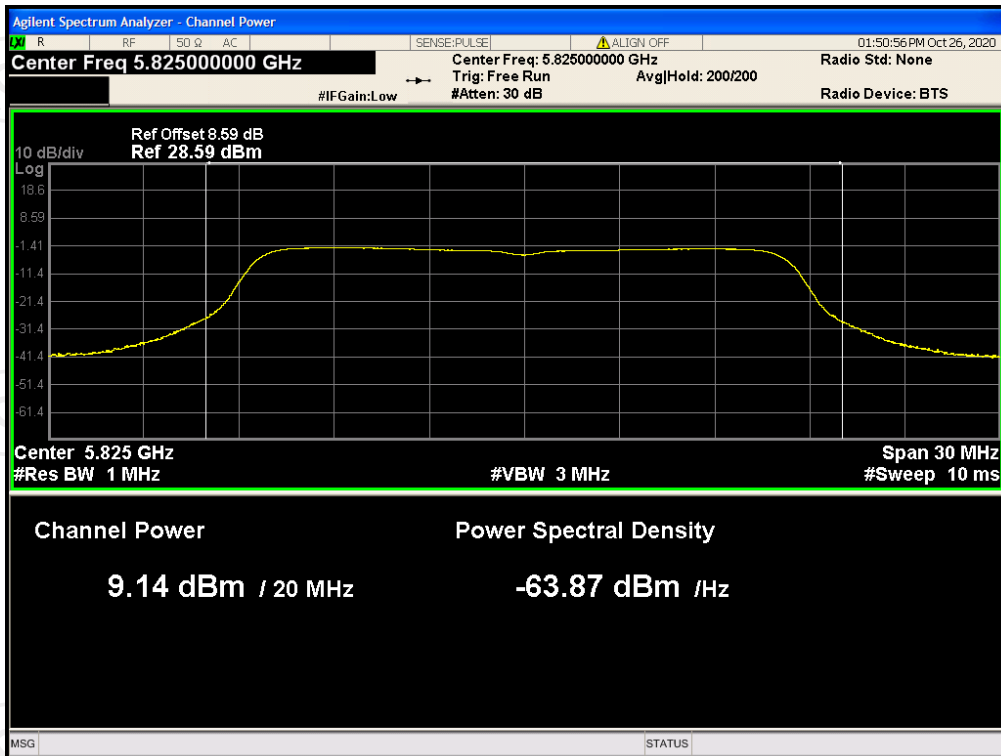
Power NVNT 802.11a 5745MHz Ant1



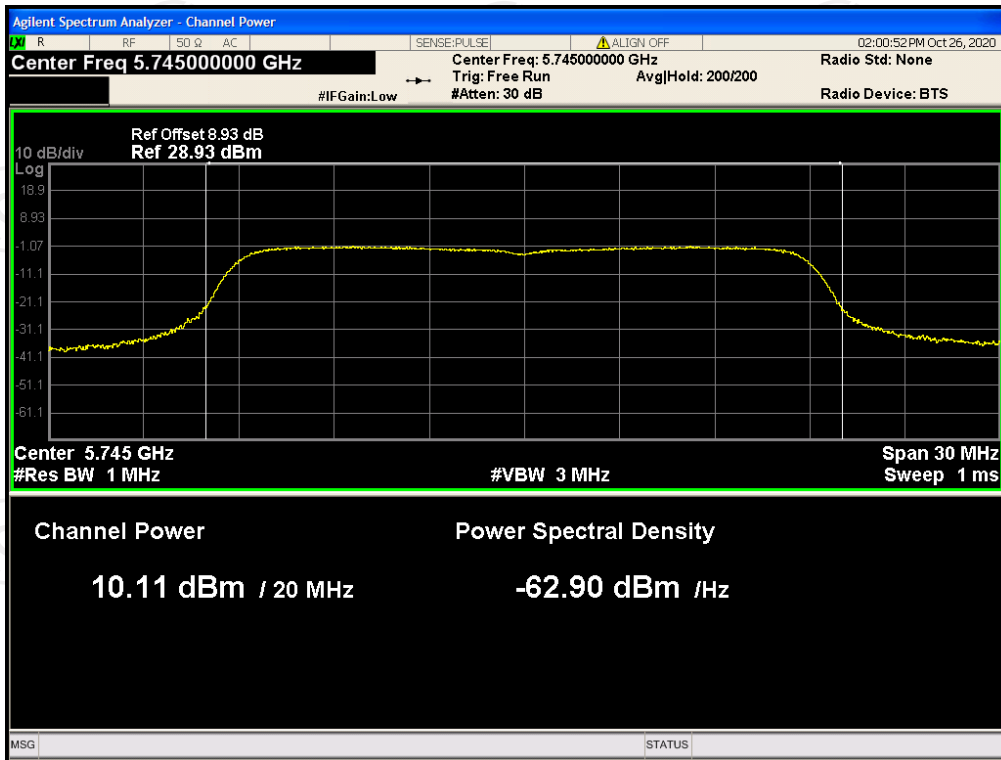
Power NVNT 802.11a 5785MHz Ant1



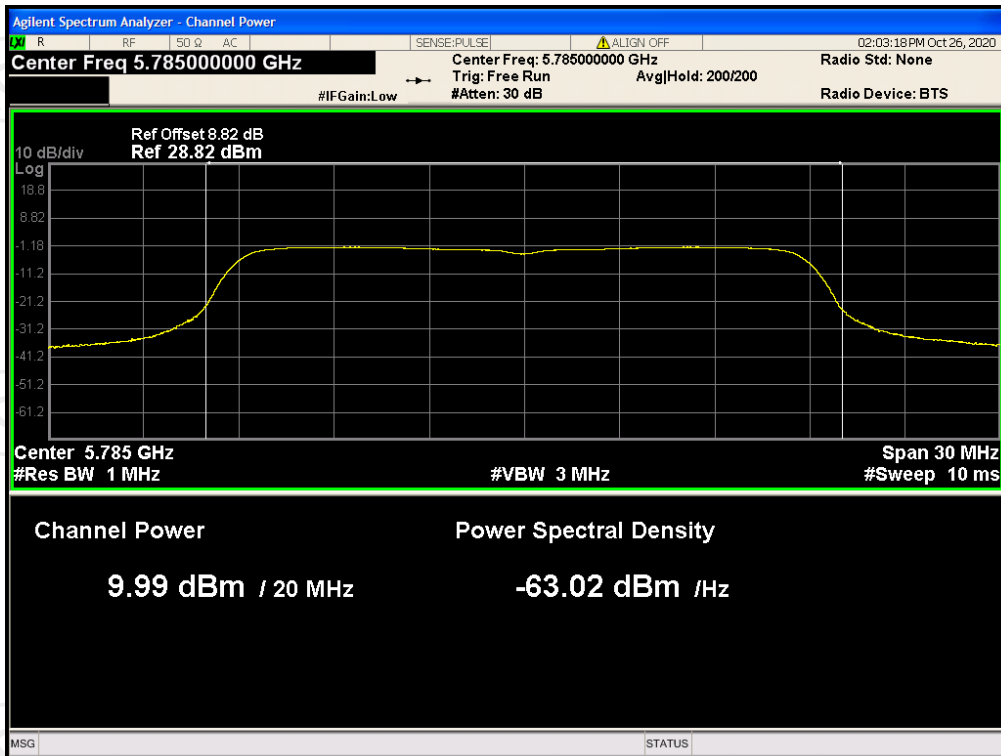
Power NVNT 802.11a 5825MHz Ant1



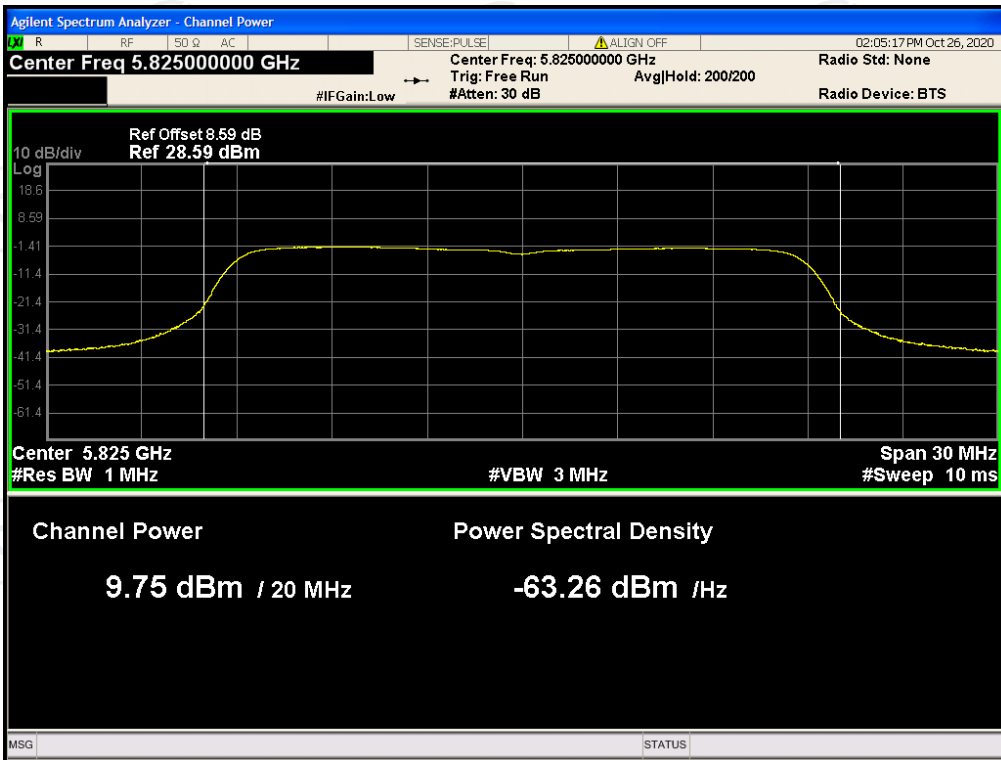
Power NVNT 802.11ac20 5745MHz Ant1



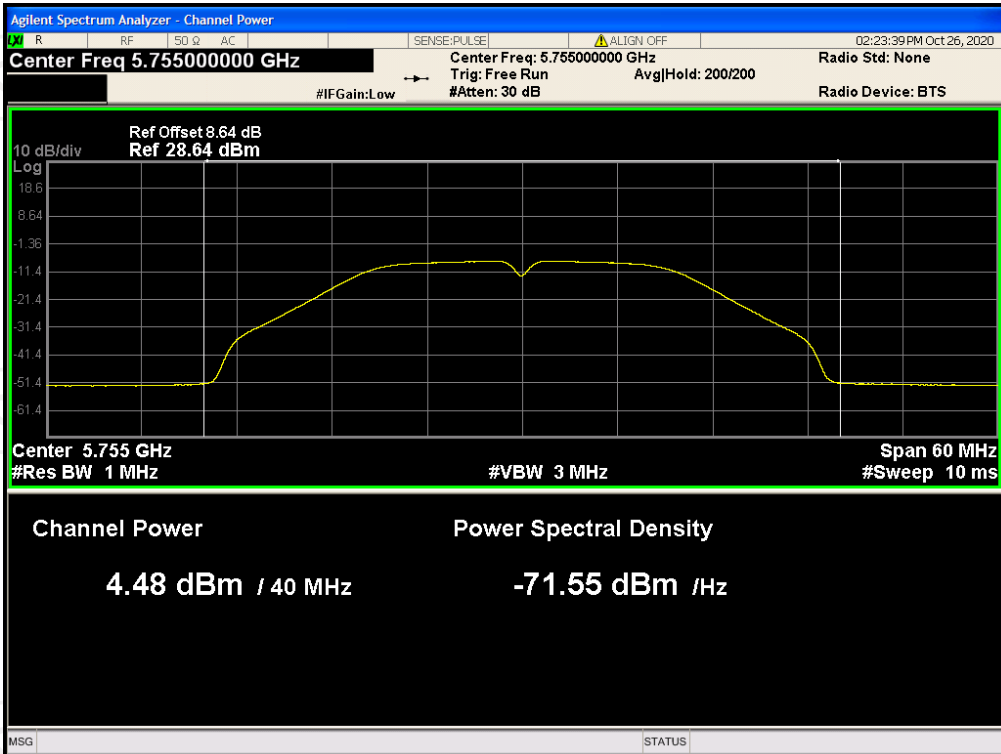
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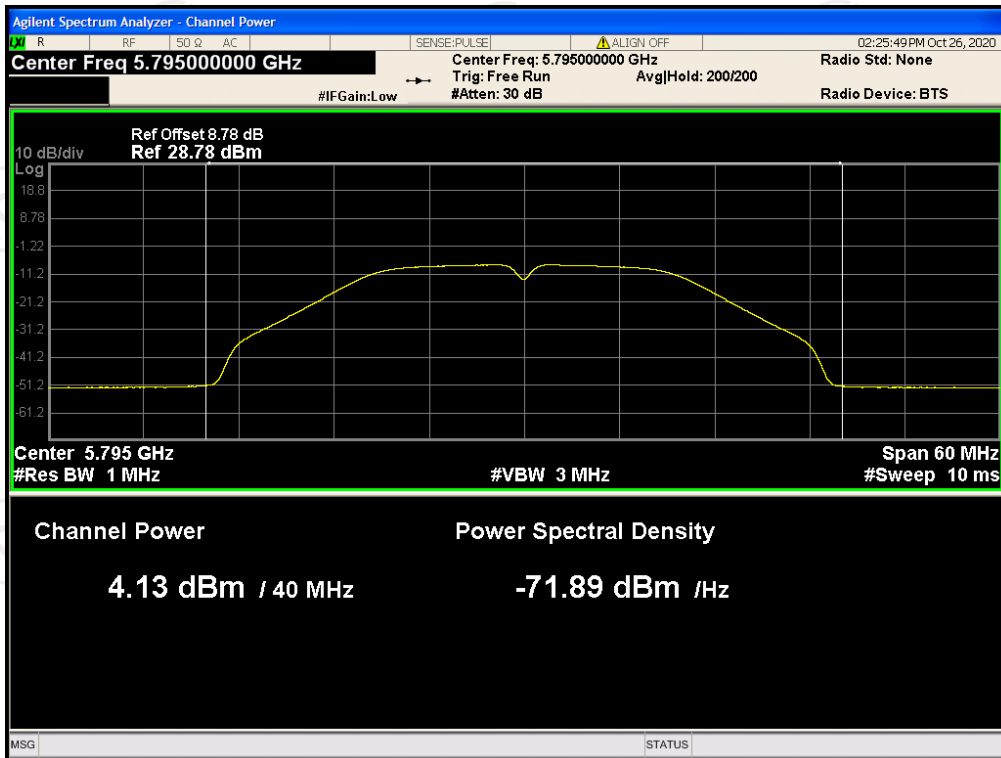
Power NVNT 802.11ac20 5825MHz Ant1



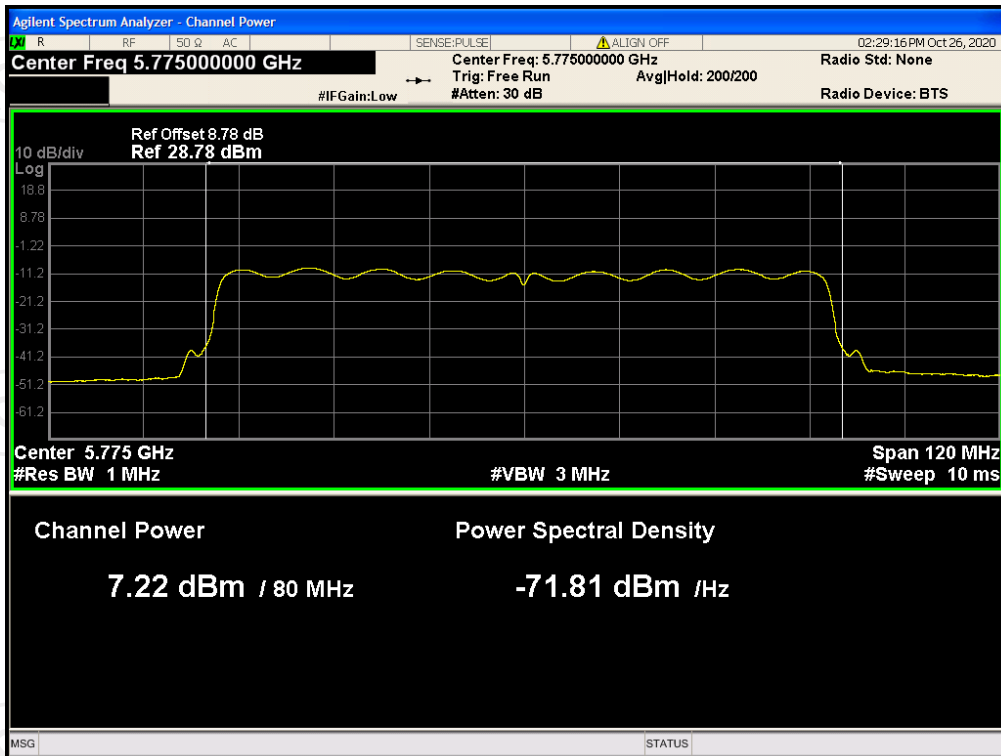
Power NVNT 802.11ac40 5755MHz Ant1



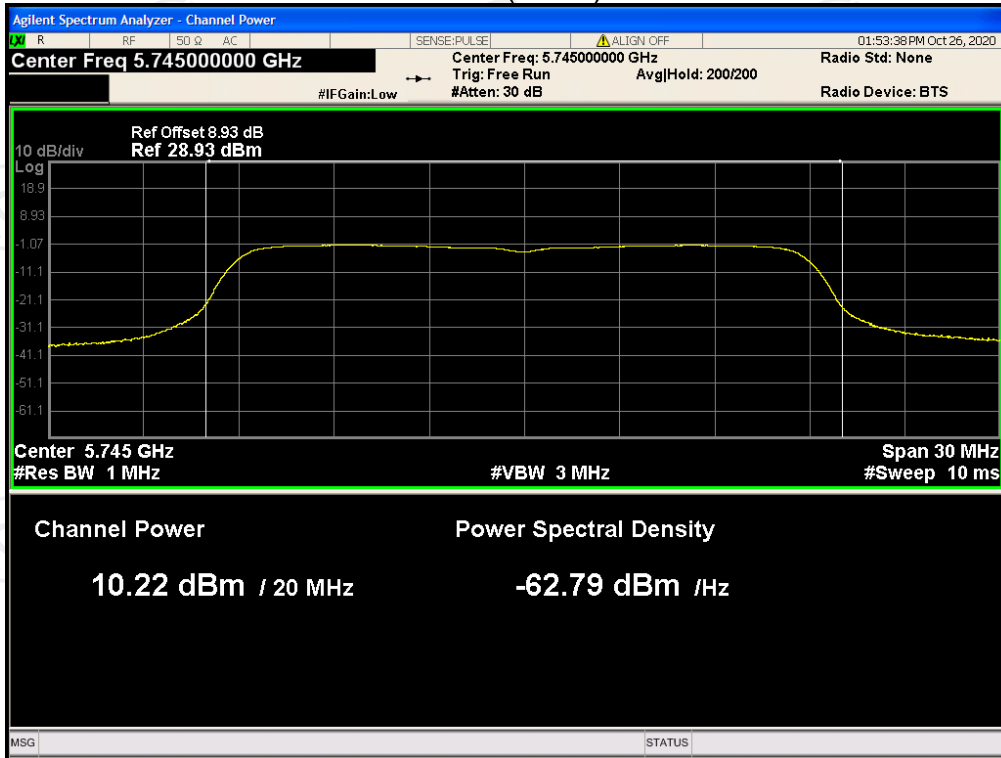
Power NVNT 802.11ac40 5795MHz Ant1



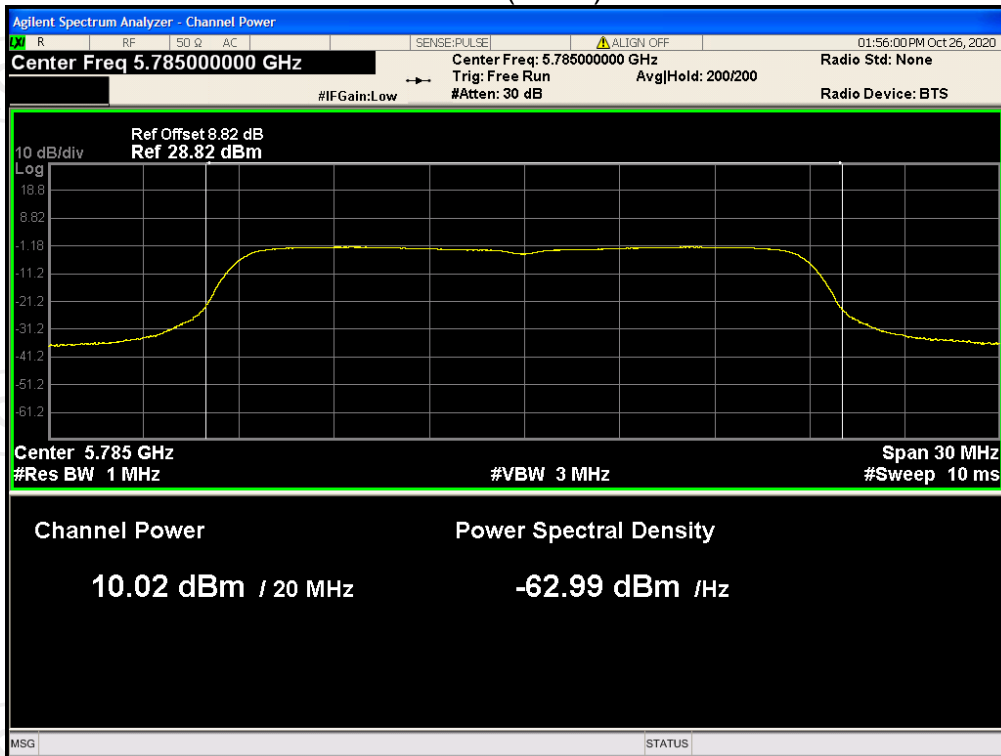
Power NVNT 802.11ac80 5775MHz Ant1



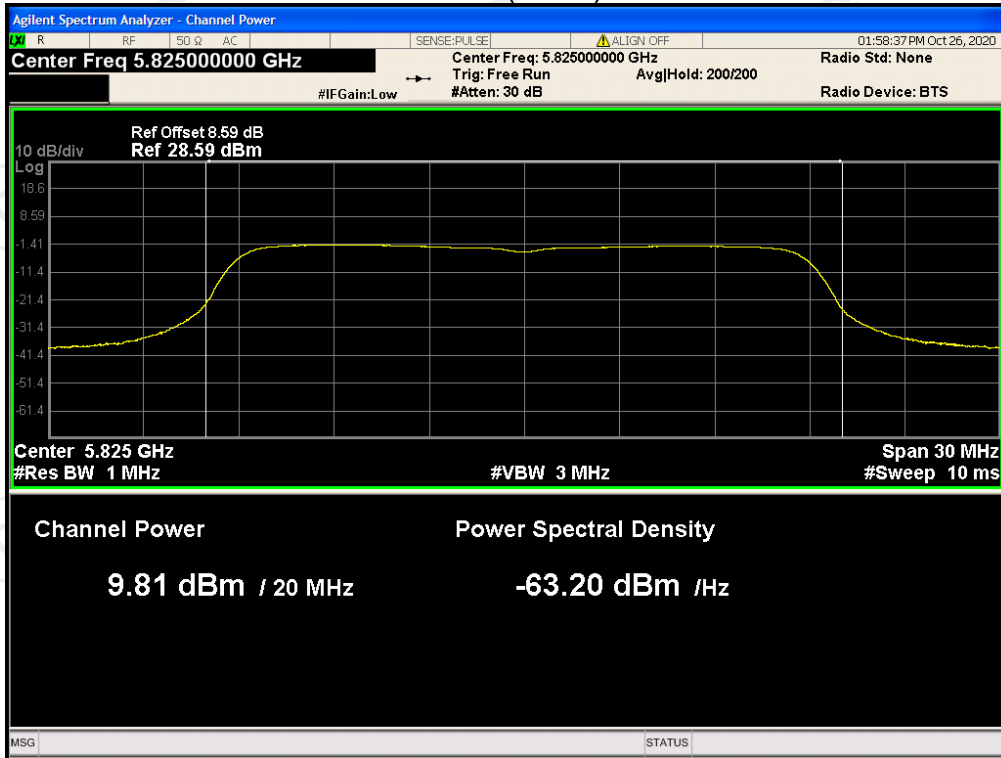
Power NVNT 802.11n(HT20) 5745MHz Ant1



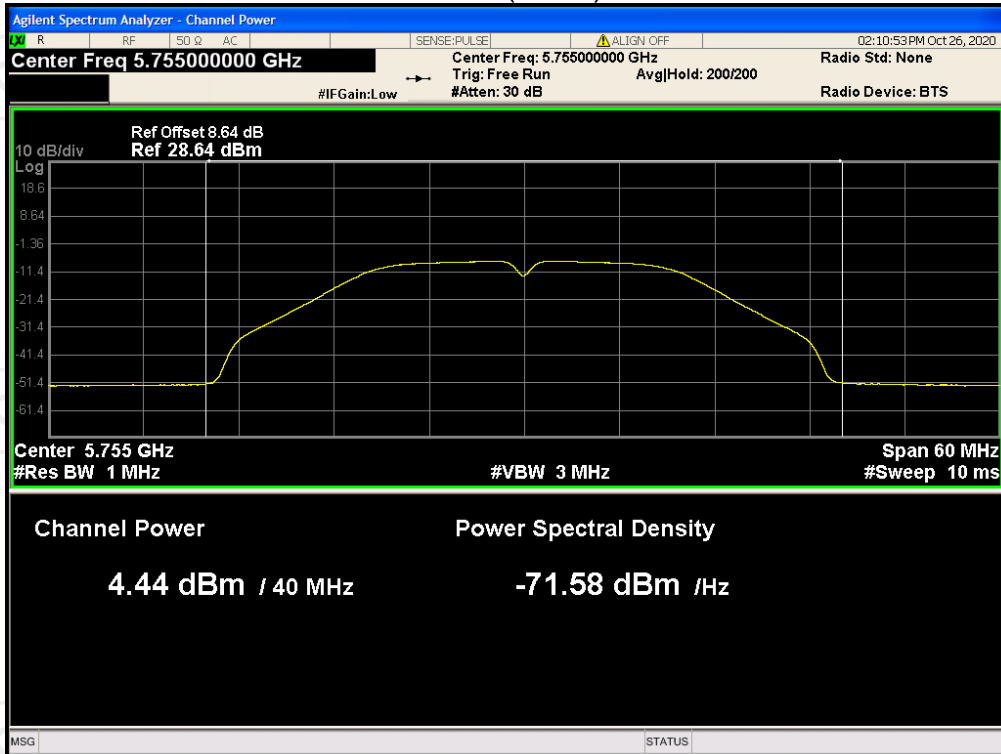
Power NVNT 802.11n(HT20) 5785MHz Ant1



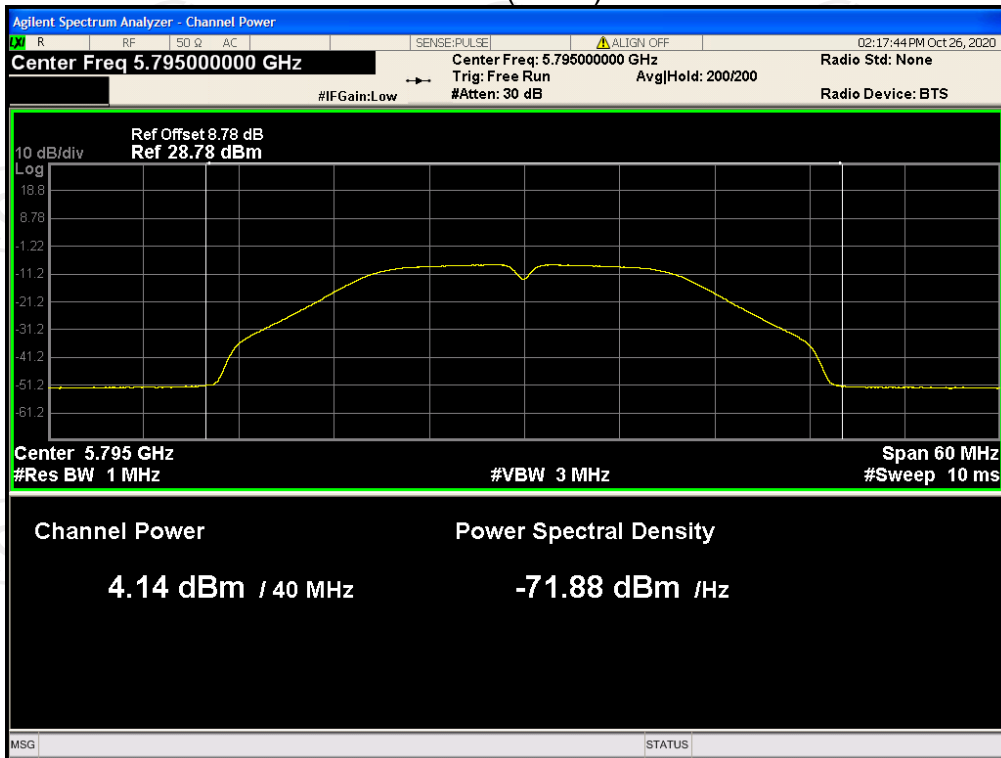
Power NVNT 802.11n(HT20) 5825MHz Ant1



Power NVNT 802.11n(HT40) 5755MHz Ant1



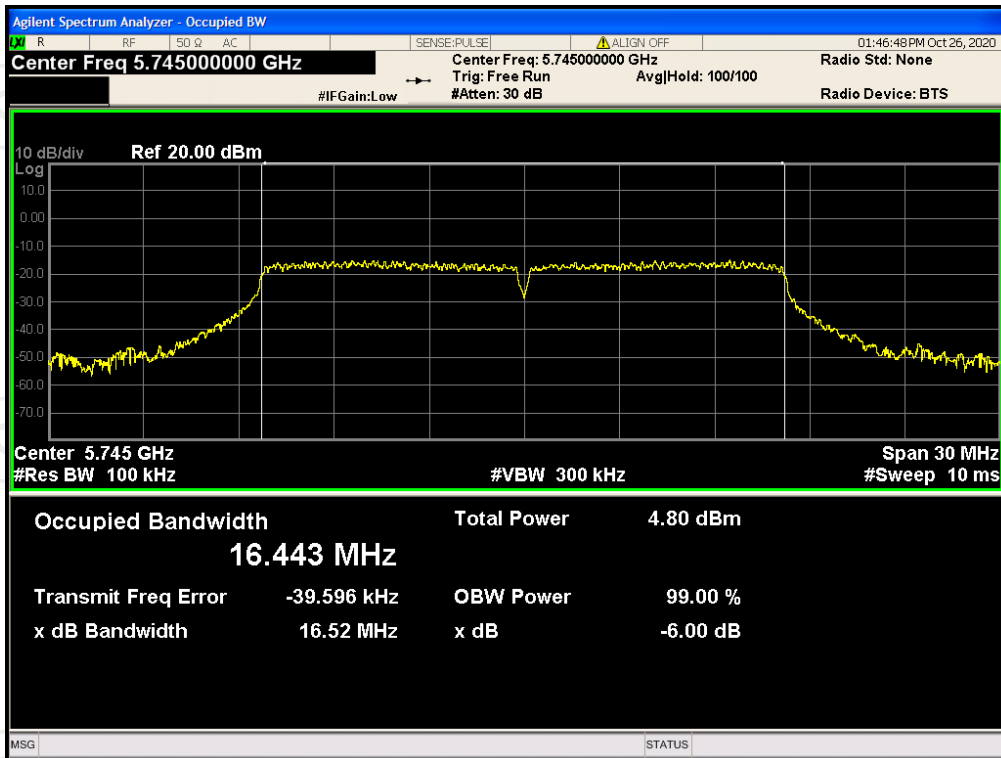
Power NVNT 802.11n(HT40) 5795MHz Ant1



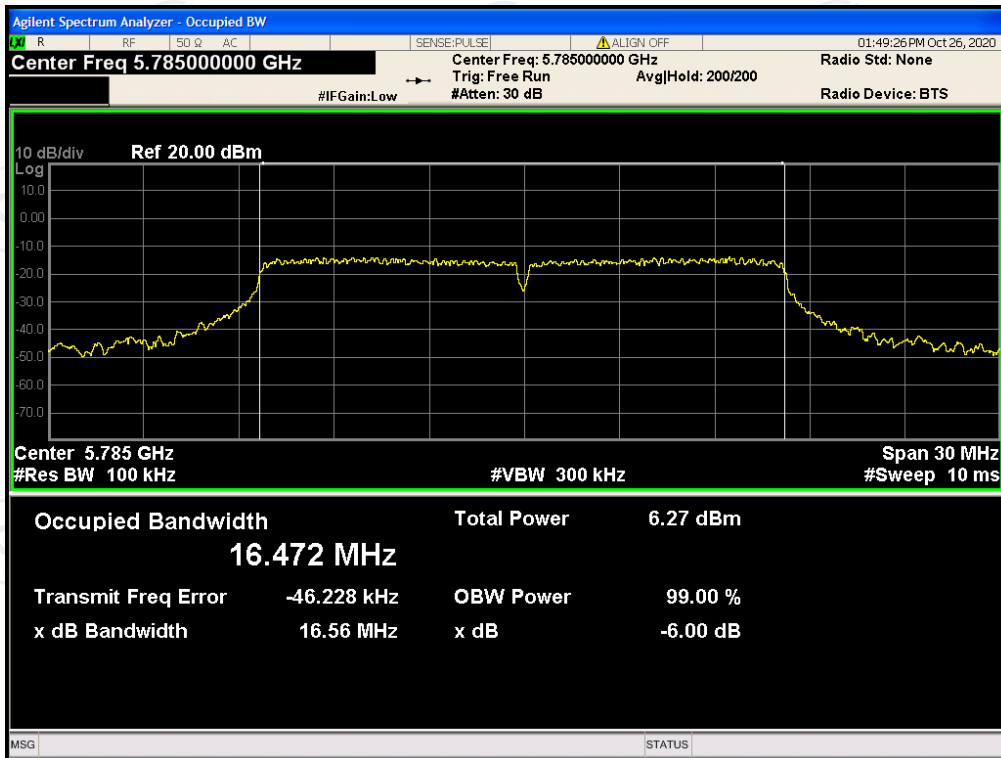
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	802.11a	5745	16.5198	0.5	Pass
NVNT	802.11a	5785	16.5602	0.5	Pass
NVNT	802.11a	5825	16.5372	0.5	Pass
NVNT	802.11ac20	5745	17.638	0.5	Pass
NVNT	802.11ac20	5785	17.6435	0.5	Pass
NVNT	802.11ac20	5825	17.6103	0.5	Pass
NVNT	802.11ac40	5755	20.6617	0.5	Pass
NVNT	802.11ac40	5795	20.6465	0.5	Pass
NVNT	802.11ac80	5775	76.4172	0.5	Pass
NVNT	802.11n(HT20)	5745	17.6494	0.5	Pass
NVNT	802.11n(HT20)	5785	17.6423	0.5	Pass
NVNT	802.11n(HT20)	5825	17.6343	0.5	Pass
NVNT	802.11n(HT40)	5755	20.7302	0.5	Pass
NVNT	802.11n(HT40)	5795	20.4728	0.5	Pass

-6dB Bandwidth NVNT 802.11a 5745MHz Ant1



-6dB Bandwidth NVNT 802.11a 5785MHz Ant1



-6dB Bandwidth NVNT 802.11a 5825MHz Ant1

