

TEST REPORT

Report No.: BCTC2508230872-4E

Applicant: Shenzhen Viofo Technology Co.,Ltd

Product Name: Car Dash Camera

Test Model: A119M Pro

Tested Date: 2025-08-04 to 2025-08-25

Issued Date: 2025-08-28

Shenzhen BCTC Testing Co., Ltd.



FCC ID:2AMBW-A119MPRO

Product Name: Car Dash Camera

Trademark: VIOFO

Model/Type Reference: A119M Pro, A119 Mini 3, A119 Mini 3 Pro, A119M3, A119M3 Pro, A119M4, A119M4 Pro, A119M5, A119M5 Pro

Prepared For: Shenzhen Viofo Technology Co., Ltd

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Manufacturer: Shenzhen Viofo Technology Co., Ltd

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Sample Received Date: 2025-08-04

Sample Tested Date: 2025-08-04 to 2025-08-25

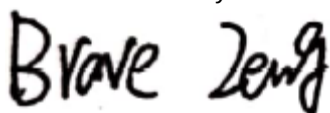
Report No.: BCTC2508230872-4E

Test Standards: FCC Part15 15.407
ANSI C63.10-2020

Test Results: PASS

Remark: This is WIFI-5GHz band radio test report.

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

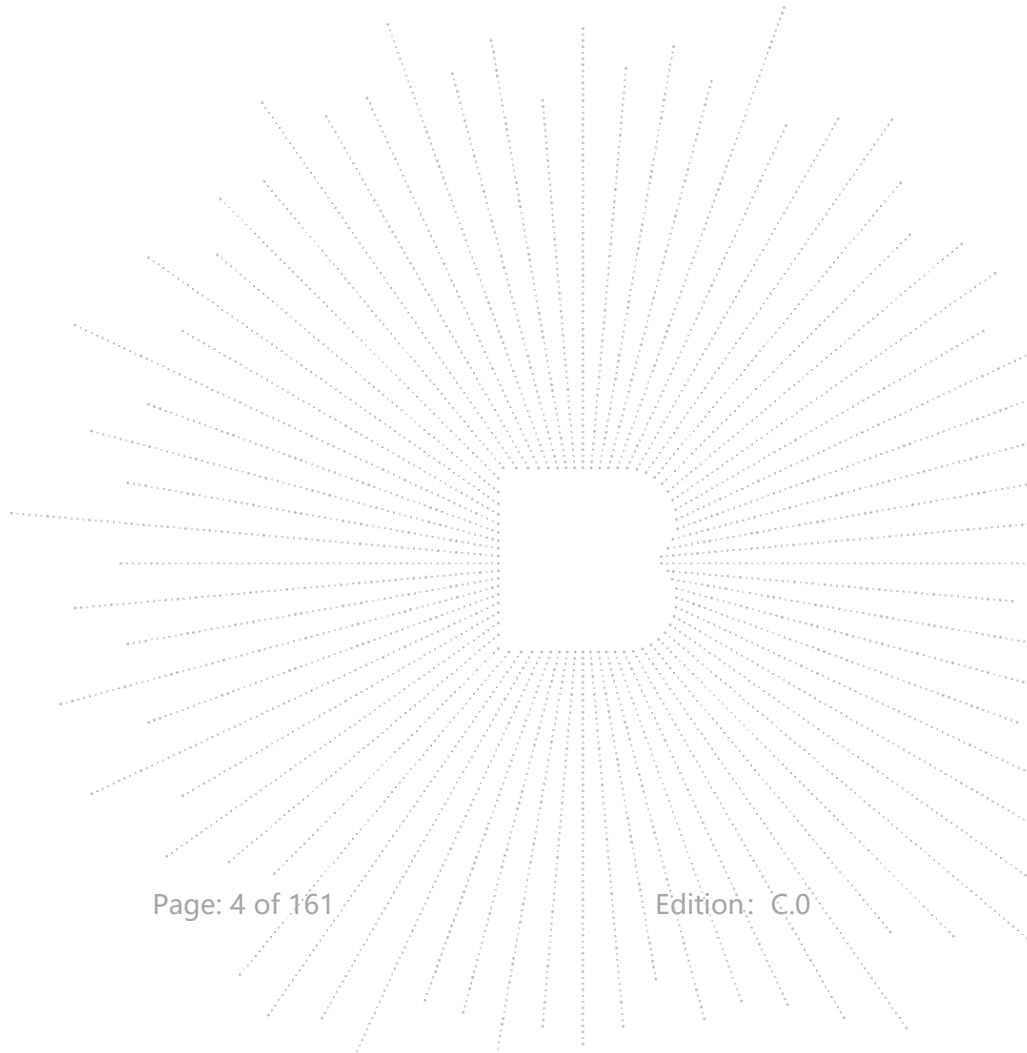
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2508230872-4E	2025-08-28	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

1	Test Parameter	Clause No.	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	N/A
3	26 dB and 99% Emission Bandwidth	15.407 (a)(12) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

Note: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

4. Product Information And Test Setup

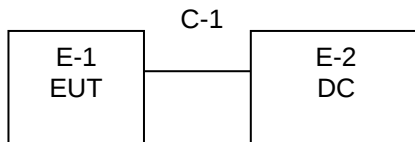
4.1 Product Information

Model/Type Reference:	A119M Pro, A119 Mini 3, A119 Mini 3 Pro, A119M3, A119M3 Pro, A119M4,A119M4 Pro,A119M5,A119M5 Pro
Model Differences:	The main model and subsequent models tested in this test differ only in naming and color. All other aspects, including materials, other manufacturing processes, circuit design, and manufacturers, are exactly the same. We finally decided on the A119M Pro as the test model.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported:	802.11a 802.11n(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth) 802.11ac(20MHz channel bandwidth) 802.11ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth) 802.11ax(20MHz channel bandwidth) 802.11ax(40MHz channel bandwidth) 802.11ax(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n/ac(HT20)/ax(HE20); 5190-5230MHz for 802.11n/ac(HT40)/ax(HE40); 5210MHz for 802.11 ac/ax80; 5745-5825 MHz for 802.11a/n/ac(HT20)/ax(HE20); 5755-5795 MHz for 802.11n/ac(HT40)/ax(HE40); 5775MHz for 802.11 ac/ax80
Data Rate:	802.11a:54/48/36/24/18/12/9/6Mbps 802.11n:up to 300 Mbps 802.11ac:up to 867 Mbps 802.11ax:up to 1201 Mbps
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac OFDMA with 1024QAM for 802.11AX HE
Number Of Channel:	4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	Internal antenna
Antenna Gain:	2.98 dBi Remark: ☐ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☒ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
power supply:	DC 12V

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Car Dash Camera	N/A	A119M Pro	N/A	EUT
E-2	DC Battery	N/A	N/A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	1m	DC cable unshielded

Notes:

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.

4.4 Channel List

Frequency and Channel list for 802.11a/n/ac/ax(20 MHz) band IV (5180-5240MHz):

802.11a/n/ac/ax(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

802.11n /ac/ax(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

802.11ac/ax (80MHz) Carrier Frequency Channel							
Channel				Frequency (MHz)			
42				5210			

Frequency and Channel list for 802.11a/n/ac/ax(20 MHz) band IV (5745-5825MHz):

802.11a/n/ac/ax(20 MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac/ax 40MHz Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac/ax 80MHz Carrier Frequency Channel					
Channel			Frequency (MHz)		
155			5775		

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11a / n/ ac/ ax 20 CH36/ CH40/ CH 48 802.11a /n/ ac/ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac/ ax40 CH38/ CH 46 802.11n/ ac/ax40 CH 151 / CH 159
Mode 3	802.11 ac/ax80 CH 42/CH 155
Mode 4	Transmitting

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

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	BK7231N-test to		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

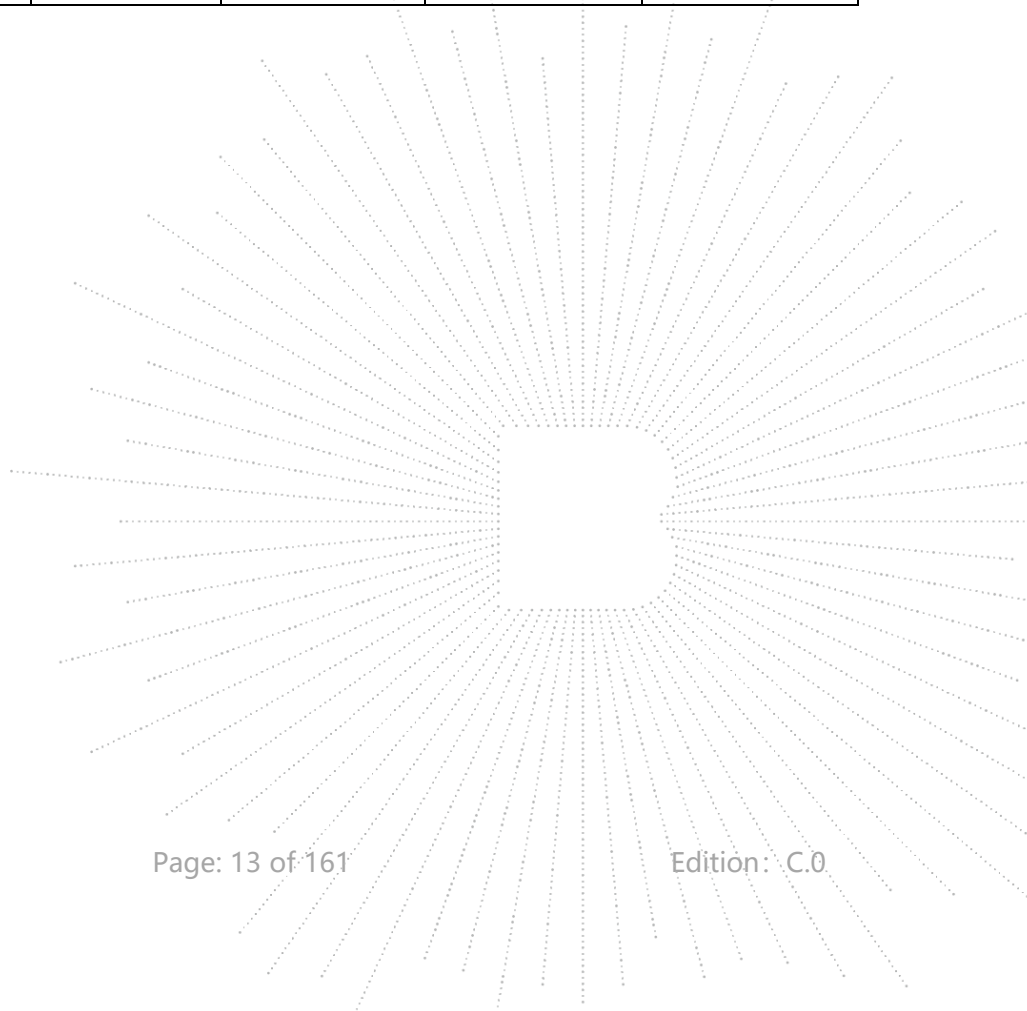
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 08 2025	May 07, 2026
LISN	R&S	ENV216	101375	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD 9561-F	01323	May 14, 2025	May 13, 2026

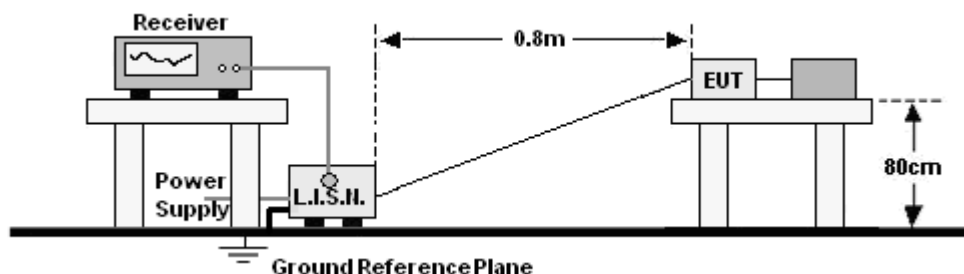
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 14, 2025	May 13, 2026
Power Sensor (AV)	Keysight	E9300A	\	May 14, 2025	May 13, 2026
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Radio frequency control box	MAIWEI	MW100-RFC B	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber02)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	SKET	966 Room	966	Oct. 31. 2024	Oct. 30. 2027
Receiver	R&S	ESR3	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESRI7	100010	Oct. 31. 2024	Oct. 30. 2025
Amplifier	SKET	LNPA-30M01 G-30	SK2021082004	Oct. 31. 2024	Oct. 30. 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9168	1323	May 24, 2025	May 23, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 24, 2025	May 23, 2026
Amplifier	SKET	LAPA_01G1 8G-45dB	SK202104090 1	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 24, 2025	May 23, 2026
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 14, 2025	May 13, 2026
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	May 24, 2025	May 23, 2026
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	FA-03A2 RE	\	\



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:
1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stabilization Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.
We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

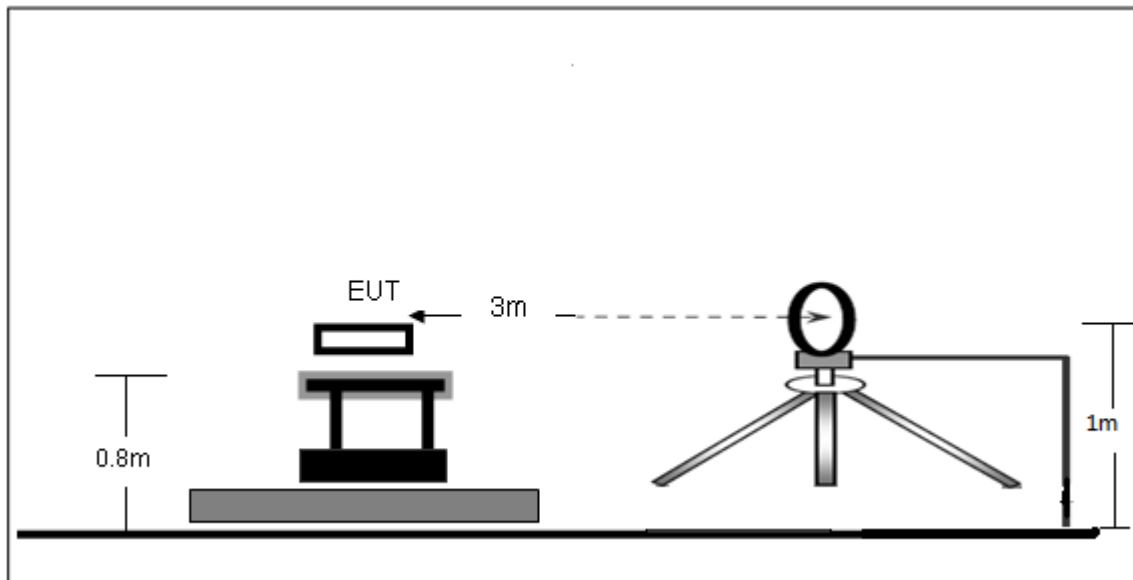
6.5 Test Result

This product is a DC vehicle-mounted device and is not applicable to this test.

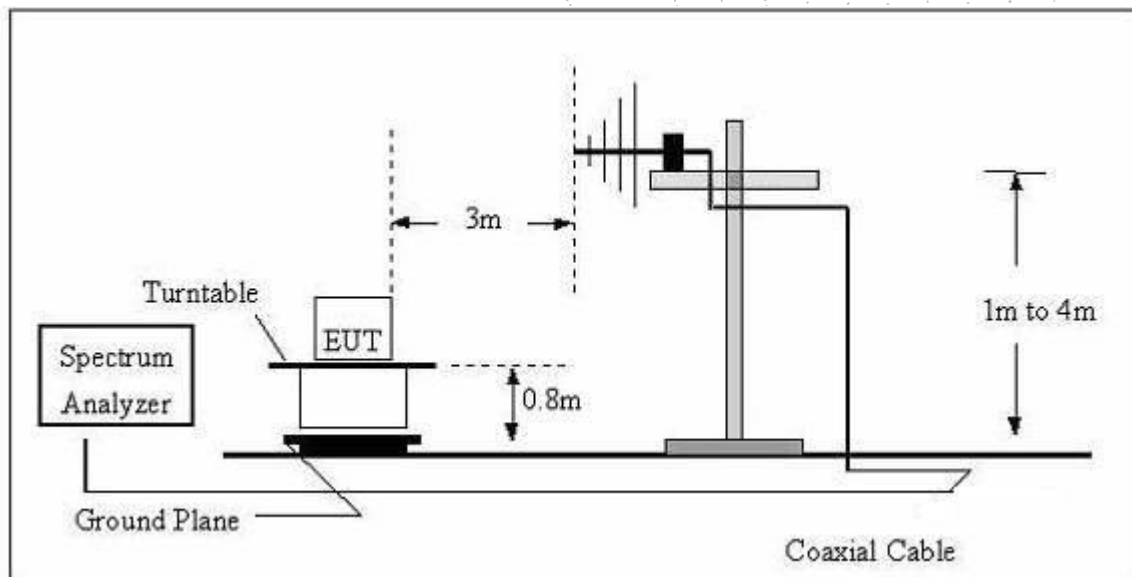
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

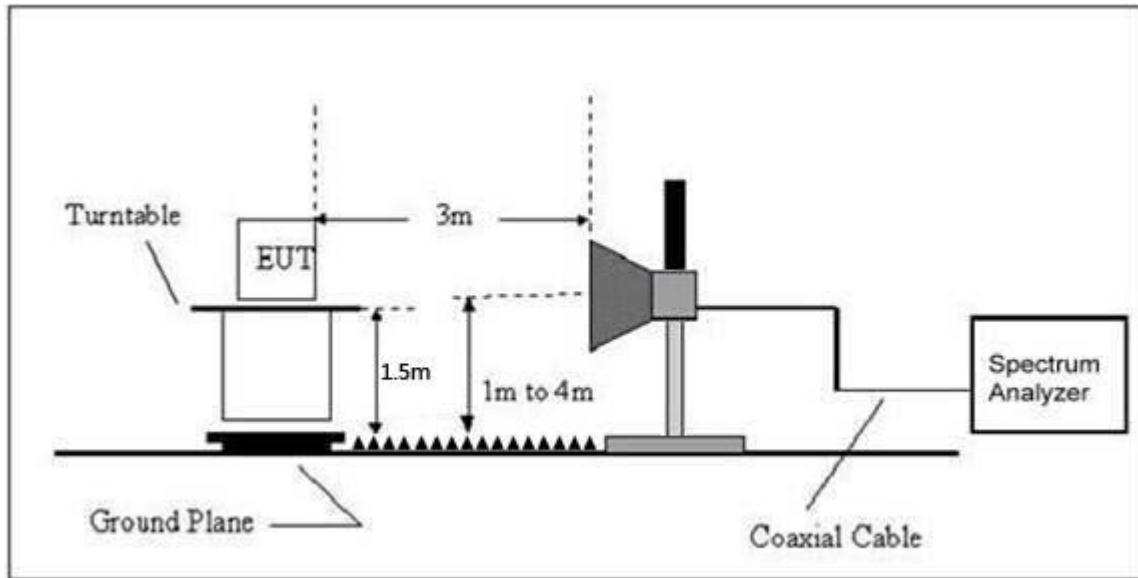
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 Test procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.

It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	Mode 4		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

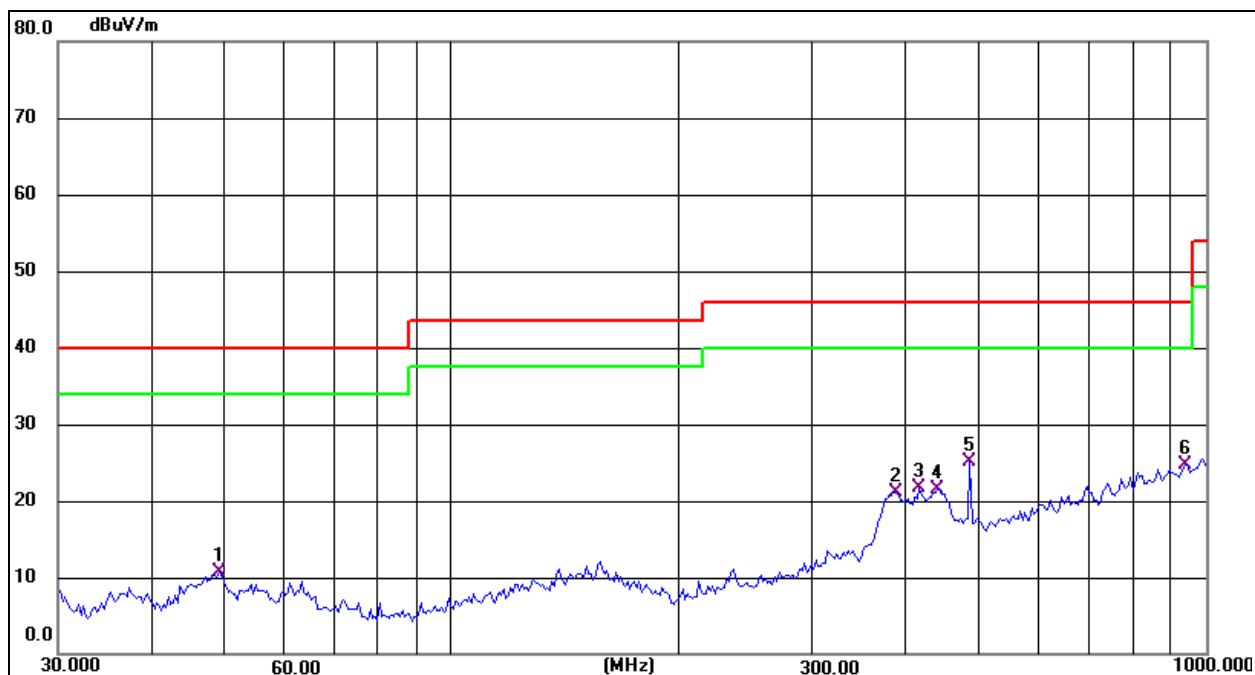
Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	Mode 4	Polarization :	Horizontal

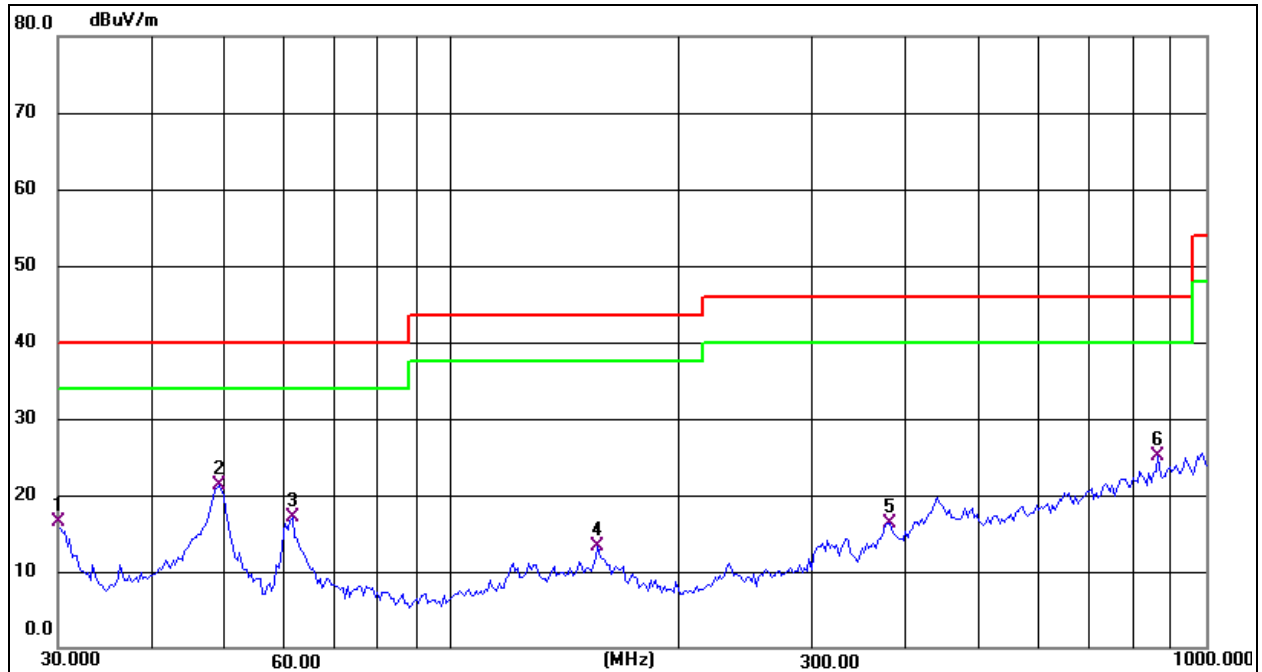


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	49.0145	28.01	-17.34	10.67	40.00	-29.33	QP
2	387.9920	33.93	-12.74	21.19	46.00	-24.81	QP
3	416.1791	33.50	-11.87	21.63	46.00	-24.37	QP
4	440.1963	32.62	-11.08	21.54	46.00	-24.46	QP
5 *	485.6093	34.94	-9.89	25.05	46.00	-20.95	QP
6	938.8326	25.72	-1.09	24.63	46.00	-21.37	QP

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	Mode 4	Polarization:	Vertical



Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	34.99	-18.54	16.45	40.00	-23.55	QP
2 *	49.0145	38.62	-17.34	21.28	40.00	-18.72	QP
3	61.3463	35.10	-18.00	17.10	40.00	-22.90	QP
4	155.9101	28.90	-15.65	13.25	43.50	-30.25	QP
5	379.9141	29.38	-12.98	16.40	46.00	-29.60	QP
6	863.0562	27.26	-2.18	25.08	46.00	-20.92	QP

Test Mode:	TX(5.1G) - 802.11a
------------	--------------------

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
V	4434.007	70.00	-20.73	49.27	68.2	-18.93	PK
V	4434.007	59.08	-20.73	38.35	54	-15.65	AV
V	10360.193	60.46	-9.36	51.10	68.2	-17.10	PK
V	10360.193	49.30	-9.36	39.94	54	-14.06	AV
V	15540.183	63.64	-7.84	55.80	74	-18.20	PK
V	15540.183	49.03	-7.84	41.19	54	-12.81	AV
H	4434.102	70.78	-20.73	50.05	68.2	-18.15	PK
H	4434.102	59.15	-20.73	38.42	54	-15.58	AV
H	10360.015	63.50	-9.36	54.14	68.2	-14.06	PK
H	10360.015	49.88	-9.36	40.52	54	-13.48	AV
H	15540.189	62.68	-7.84	54.84	74	-19.16	PK
H	15540.189	49.59	-7.84	41.75	54	-12.25	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.044	70.39	-20.42	49.98	74	-24.02	PK
V	4592.044	59.74	-20.42	39.33	54	-14.67	AV
V	10400.185	64.41	-9.30	55.11	68.2	-13.09	PK
V	10400.185	49.87	-9.30	40.57	54	-13.43	AV
V	15600.103	60.01	-7.82	52.19	74	-21.81	PK
V	15600.103	49.21	-7.82	41.39	54	-12.61	AV
H	4592.158	70.50	-20.42	50.09	74	-23.91	PK
H	4592.158	59.59	-20.42	39.17	54	-14.83	AV
H	10400.007	62.10	-9.30	52.80	68.2	-15.40	PK
H	10400.007	49.76	-9.30	40.46	54	-13.54	AV
H	15600.184	61.05	-7.82	53.23	74	-20.77	PK
H	15600.184	49.73	-7.82	41.91	54	-12.09	AV
High Channel (5240 MHz)-Above 1G							
V	4739.057	71.29	-20.12	51.17	74	-22.83	PK
V	4739.057	59.75	-20.12	39.63	54	-14.37	AV
V	10480.196	62.14	-9.18	52.96	68.2	-15.24	PK
V	10480.196	49.05	-9.18	39.87	54	-14.13	AV
V	15720.179	61.95	-7.78	54.17	74	-19.83	PK
V	15720.179	49.17	-7.78	41.39	54	-12.61	AV
H	4739.128	71.62	-20.12	51.50	74	-22.50	PK
H	4739.128	59.06	-20.12	38.94	54	-15.06	AV
H	10480.196	62.99	-9.18	53.81	68.2	-14.39	PK
H	10480.196	49.78	-9.18	40.60	54	-13.40	AV
H	15720.127	60.18	-7.78	52.40	74	-21.60	PK
H	15720.127	49.54	-7.78	41.76	54	-12.24	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.138	70.43	-20.73	49.70	68.2	-18.50	PK
V	4434.138	59.61	-20.73	38.88	54	-15.12	AV
V	10360.162	64.70	-9.36	55.34	68.2	-12.86	PK
V	10360.162	49.67	-9.36	40.31	54	-13.69	AV
V	15540.050	61.23	-7.84	53.39	74	-20.61	PK
V	15540.050	49.09	-7.84	41.25	54	-12.75	AV
H	4434.006	72.40	-20.73	51.67	68.2	-16.53	PK
H	4434.006	59.77	-20.73	39.04	54	-14.96	AV
H	10360.021	62.66	-9.36	53.30	68.2	-14.90	PK
H	10360.021	49.30	-9.36	39.94	54	-14.06	AV
H	15540.195	63.54	-7.84	55.70	74	-18.30	PK
H	15540.195	49.85	-7.84	42.01	54	-11.99	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.048	70.53	-20.42	50.11	74	-23.89	PK
V	4592.048	59.91	-20.42	39.49	54	-14.51	AV
V	10400.098	61.21	-9.30	51.91	68.2	-16.29	PK
V	10400.098	49.13	-9.30	39.83	54	-14.17	AV
V	15600.134	60.13	-7.82	52.31	74	-21.69	PK
V	15600.134	49.05	-7.82	41.23	54	-12.77	AV
H	4592.112	70.08	-20.42	49.66	74	-24.34	PK
H	4592.112	59.21	-20.42	38.79	54	-15.21	AV
H	10400.180	61.90	-9.30	52.60	68.2	-15.60	PK
H	10400.180	49.76	-9.30	40.46	54	-13.54	AV
H	15600.014	63.89	-7.82	56.07	74	-17.93	PK
H	15600.014	50.00	-7.82	42.18	54	-11.82	AV
High Channel (5240 MHz)-Above 1G							
V	4739.041	70.99	-20.12	50.86	74	-23.14	PK
V	4739.041	59.07	-20.12	38.95	54	-15.05	AV
V	10480.091	62.40	-9.18	53.22	68.2	-14.98	PK
V	10480.091	49.58	-9.18	40.40	54	-13.60	AV
V	15720.000	63.65	-7.78	55.87	74	-18.13	PK
V	15720.000	49.56	-7.78	41.78	54	-12.22	AV
H	4739.193	73.48	-20.12	53.36	74	-20.64	PK
H	4739.193	59.23	-20.12	39.10	54	-14.90	AV
H	10480.040	60.43	-9.18	51.25	68.2	-16.95	PK
H	10480.040	49.66	-9.18	40.48	54	-13.52	AV
H	15720.004	60.29	-7.78	52.51	74	-21.49	PK
H	15720.004	49.76	-7.78	41.98	54	-12.02	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.147	73.49	-20.73	52.76	68.2	-15.44	PK
V	4434.147	59.68	-20.73	38.95	54	-15.05	AV
V	10380.091	62.03	-9.33	52.70	68.2	-15.50	PK
V	10380.091	49.62	-9.33	40.29	54	-13.71	AV
V	15570.193	62.39	-7.83	54.56	74	-19.44	PK
V	15570.193	49.26	-7.83	41.43	54	-12.57	AV
H	4434.084	73.23	-20.73	52.49	74	-21.51	PK
H	4434.084	59.47	-20.73	38.73	54	-15.27	AV
H	10380.090	60.40	-9.33	51.07	68.2	-17.13	PK
H	10380.090	49.53	-9.33	40.20	54	-13.80	AV
H	15570.014	64.71	-7.83	56.88	74	-17.12	PK
H	15570.014	49.63	-7.83	41.80	54	-12.20	AV
High Channel (5230 MHz)-Above 1G							
V	4739.147	74.27	-20.12	54.14	68.2	-14.06	PK
V	4739.147	59.59	-20.12	39.47	54	-14.53	AV
V	10460.072	63.20	-9.21	53.99	68.2	-14.21	PK
V	10460.072	49.23	-9.21	40.02	54	-13.98	AV
V	15690.155	63.96	-7.79	56.17	74	-17.83	PK
V	15690.155	49.21	-7.79	41.42	54	-12.58	AV
H	4739.121	71.36	-20.12	51.24	68.2	-16.96	PK
H	4739.121	59.95	-20.12	39.83	54	-14.17	AV
H	10460.154	62.25	-9.21	53.04	68.2	-15.16	PK
H	10460.154	49.93	-9.21	40.72	54	-13.28	AV
H	15690.117	64.19	-7.79	56.40	74	-17.60	PK
H	15690.117	49.61	-7.79	41.82	54	-12.18	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.116	73.04	-20.73	52.30	68.2	-15.90	Pk
Vertical	4434.116	59.52	-20.73	38.79	54	-15.21	AV
Vertical	10360.179	60.15	-9.36	50.79	68.2	-17.41	Pk
Vertical	10360.179	49.93	-9.36	40.57	54	-13.43	AV
Vertical	15540.165	62.61	-7.84	54.77	74	-19.23	Pk
Vertical	15540.165	49.40	-7.84	41.56	54	-12.44	AV
Horizontal	4434.019	71.94	-20.73	51.21	68.2	-16.99	Pk
Horizontal	4434.019	59.54	-20.73	38.81	54	-15.19	AV
Horizontal	10360.075	60.48	-9.36	51.12	68.2	-17.08	Pk
Horizontal	10360.075	49.51	-9.36	40.15	54	-13.85	AV
Horizontal	15540.105	63.30	-7.84	55.46	74	-18.54	Pk
Horizontal	15540.105	49.91	-7.84	42.07	54	-11.93	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.027	70.43	-20.42	50.01	74	-23.99	Pk
Vertical	4592.027	59.72	-20.42	39.30	54	-14.70	AV
Vertical	10400.026	64.15	-9.30	54.85	68.2	-13.35	Pk
Vertical	10400.026	49.63	-9.30	40.33	54	-13.67	AV
Vertical	15600.030	62.67	-7.82	54.85	74	-19.15	Pk
Vertical	15600.030	49.36	-7.82	41.54	54	-12.46	AV
Horizontal	4592.075	70.51	-20.42	50.09	74	-23.91	Pk
Horizontal	4592.075	59.06	-20.42	38.64	54	-15.36	AV
Horizontal	10400.015	60.80	-9.30	51.50	68.2	-16.70	Pk
Horizontal	10400.015	49.81	-9.30	40.51	54	-13.49	AV
Horizontal	15600.114	64.05	-7.82	56.23	74	-17.77	Pk
Horizontal	15600.114	49.32	-7.82	41.50	54	-12.50	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.118	70.04	-20.12	49.92	74	-24.08	Pk
Vertical	4739.118	59.25	-20.12	39.13	54	-14.87	AV
Vertical	10480.046	60.60	-9.18	51.42	68.2	-16.78	Pk
Vertical	10480.046	49.24	-9.18	40.06	54	-13.94	AV
Vertical	15720.023	60.09	-7.78	52.31	74	-21.69	Pk
Vertical	15720.023	49.88	-7.78	42.10	54	-11.90	AV
Horizontal	4739.042	73.14	-20.12	53.02	74	-20.98	Pk
Horizontal	4739.042	59.09	-20.12	38.97	54	-15.03	AV
Horizontal	10480.061	64.57	-9.18	55.39	68.2	-12.81	Pk
Horizontal	10480.061	49.04	-9.18	39.86	54	-14.14	AV
Horizontal	15720.187	60.15	-7.78	52.37	74	-21.63	Pk
Horizontal	15720.187	49.37	-7.78	41.59	54	-12.41	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.181	74.21	-20.73	53.48	68.2	-14.72	Pk
Vertical	4434.181	59.89	-20.73	39.16	54	-14.84	AV
Vertical	10380.025	64.29	-9.33	54.96	68.2	-13.24	Pk
Vertical	10380.025	49.59	-9.33	40.26	54	-13.74	AV
Vertical	15570.128	64.29	-7.83	56.46	74	-17.54	Pk
Vertical	15570.128	49.78	-7.83	41.95	54	-12.05	AV
Horizontal	4434.148	73.02	-20.73	52.29	74	-21.71	Pk
Horizontal	4434.148	59.02	-20.73	38.29	54	-15.71	AV
Horizontal	10380.076	63.66	-9.33	54.33	68.2	-13.87	Pk
Horizontal	10380.076	49.84	-9.33	40.51	54	-13.49	AV
Horizontal	15570.025	61.34	-7.83	53.51	74	-20.49	Pk
Horizontal	15570.025	49.20	-7.83	41.37	54	-12.63	AV
middle Channel (5230 MHz)-Above 1G							
Vertical	4739.114	73.06	-20.12	52.94	68.2	-15.26	Pk
Vertical	4739.114	59.20	-20.12	39.08	54	-14.92	AV
Vertical	10460.174	63.24	-9.21	54.03	68.2	-14.17	Pk
Vertical	10460.174	49.06	-9.21	39.85	54	-14.15	AV
Vertical	15690.144	64.59	-7.79	56.80	74	-17.20	Pk
Vertical	15690.144	49.29	-7.79	41.50	54	-12.50	AV
Horizontal	4739.018	71.32	-20.12	51.20	68.2	-17.00	Pk
Horizontal	4739.018	59.19	-20.12	39.07	54	-14.93	AV
Horizontal	10460.149	62.58	-9.21	53.37	68.2	-14.83	Pk
Horizontal	10460.149	49.70	-9.21	40.49	54	-13.51	AV
Horizontal	15690.170	60.58	-7.79	52.79	74	-21.21	Pk
Horizontal	15690.170	49.42	-7.79	41.63	54	-12.37	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
Vertical	4434.041	72.96	-20.73	52.23	68.2	-15.97	Pk
Vertical	4434.041	59.05	-20.73	38.32	54	-15.68	AV
Vertical	10420.109	61.86	-9.27	52.59	68.2	-15.61	Pk
Vertical	10420.109	49.85	-9.27	40.58	54	-13.42	AV
Vertical	15630.145	63.16	-7.81	55.35	74	-18.65	Pk
Vertical	15630.145	49.99	-7.81	42.18	54	-11.82	AV
Horizontal	4434.156	74.10	-20.73	53.36	68.2	-14.84	Pk
Horizontal	4434.156	59.62	-20.73	38.89	54	-15.11	AV
Horizontal	10420.141	62.84	-9.27	53.57	68.2	-14.63	Pk
Horizontal	10420.141	49.19	-9.27	39.92	54	-14.08	AV
Horizontal	15630.184	62.21	-7.81	54.40	74	-19.60	Pk
Horizontal	15630.184	49.48	-7.81	41.67	54	-12.33	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ax-HE20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.076	73.11	-20.73	52.38	68.2	-15.82	Pk
Vertical	4434.076	59.75	-20.73	39.02	54	-14.98	AV
Vertical	10360.160	64.19	-9.36	54.83	68.2	-13.37	Pk
Vertical	10360.160	49.78	-9.36	40.42	54	-13.58	AV
Vertical	15540.005	61.13	-7.84	53.29	74	-20.71	Pk
Vertical	15540.005	49.87	-7.84	42.03	54	-11.97	AV
Horizontal	4434.107	72.67	-20.73	51.94	68.2	-16.26	Pk
Horizontal	4434.107	59.47	-20.73	38.74	54	-15.26	AV
Horizontal	10360.056	61.89	-9.36	52.53	68.2	-15.67	Pk
Horizontal	10360.056	49.71	-9.36	40.35	54	-13.65	AV
Horizontal	15540.146	60.17	-7.84	52.33	74	-21.67	Pk
Horizontal	15540.146	49.63	-7.84	41.79	54	-12.21	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.110	74.11	-20.42	53.69	74	-20.31	Pk
Vertical	4592.110	59.77	-20.42	39.36	54	-14.64	AV
Vertical	10400.056	60.95	-9.30	51.65	68.2	-16.55	Pk
Vertical	10400.056	49.81	-9.30	40.51	54	-13.49	AV
Vertical	15600.004	60.87	-7.82	53.05	74	-20.95	Pk
Vertical	15600.004	49.89	-7.82	42.07	54	-11.93	AV
Horizontal	4592.041	74.40	-20.42	53.98	74	-20.02	Pk
Horizontal	4592.041	59.25	-20.42	38.83	54	-15.17	AV
Horizontal	10400.010	62.27	-9.30	52.97	68.2	-15.23	Pk
Horizontal	10400.010	49.98	-9.30	40.68	54	-13.32	AV
Horizontal	15600.033	60.04	-7.82	52.22	74	-21.78	Pk
Horizontal	15600.033	49.14	-7.82	41.32	54	-12.68	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.071	73.35	-20.12	53.23	74	-20.77	Pk
Vertical	4739.071	59.32	-20.12	39.20	54	-14.80	AV
Vertical	10480.185	62.77	-9.18	53.59	68.2	-14.61	Pk
Vertical	10480.185	49.09	-9.18	39.91	54	-14.09	AV
Vertical	15720.088	62.78	-7.78	55.00	74	-19.00	Pk
Vertical	15720.088	49.46	-7.78	41.68	54	-12.32	AV
Horizontal	4739.083	72.01	-20.12	51.89	74	-22.11	Pk
Horizontal	4739.083	59.14	-20.12	39.01	54	-14.99	AV
Horizontal	10480.151	63.77	-9.18	54.59	68.2	-13.61	Pk
Horizontal	10480.151	49.20	-9.18	40.02	54	-13.98	AV
Horizontal	15720.074	62.19	-7.78	54.41	74	-19.59	Pk
Horizontal	15720.074	49.52	-7.78	41.74	54	-12.26	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ax-HE40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.047	71.88	-20.73	51.15	68.2	-17.05	Pk
Vertical	4434.047	59.29	-20.73	38.56	54	-15.44	AV
Vertical	10380.156	62.90	-9.33	53.57	68.2	-14.63	Pk
Vertical	10380.156	49.38	-9.33	40.05	54	-13.95	AV
Vertical	15570.148	64.16	-7.83	56.33	74	-17.67	Pk
Vertical	15570.148	49.38	-7.83	41.55	54	-12.45	AV
Horizontal	4434.187	70.02	-20.73	49.29	74	-24.71	Pk
Horizontal	4434.187	59.42	-20.73	38.69	54	-15.31	AV
Horizontal	10380.184	60.67	-9.33	51.34	68.2	-16.86	Pk
Horizontal	10380.184	49.57	-9.33	40.24	54	-13.76	AV
Horizontal	15570.182	61.54	-7.83	53.71	74	-20.29	Pk
Horizontal	15570.182	49.70	-7.83	41.87	54	-12.13	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.162	70.32	-20.12	50.19	68.2	-18.01	Pk
Vertical	4739.162	59.57	-20.12	39.44	54	-14.56	AV
Vertical	10460.119	64.04	-9.21	54.83	68.2	-13.37	Pk
Vertical	10460.119	49.47	-9.21	40.26	54	-13.74	AV
Vertical	15690.110	64.61	-7.79	56.82	74	-17.18	Pk
Vertical	15690.110	49.15	-7.79	41.36	54	-12.64	AV
Horizontal	4739.017	70.38	-20.12	50.26	68.2	-17.94	Pk
Horizontal	4739.017	59.86	-20.12	39.74	54	-14.26	AV
Horizontal	10460.198	64.44	-9.21	55.23	68.2	-12.97	Pk
Horizontal	10460.198	49.64	-9.21	40.43	54	-13.57	AV
Horizontal	15690.191	62.43	-7.79	54.64	74	-19.36	Pk
Horizontal	15690.191	49.10	-7.79	41.31	54	-12.69	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ax-HE80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
Vertical	4434.130	72.41	-20.73	51.68	68.2	-16.52	Pk
Vertical	4434.130	59.38	-20.73	38.65	54	-15.35	AV
Vertical	10420.093	60.73	-9.27	51.46	68.2	-16.74	Pk
Vertical	10420.093	49.09	-9.27	39.82	54	-14.18	AV
Vertical	15630.087	63.77	-7.81	55.96	74	-18.04	Pk
Vertical	15630.087	49.78	-7.81	41.97	54	-12.03	AV
Horizontal	4434.042	74.87	-20.73	54.14	68.2	-14.06	Pk
Horizontal	4434.042	59.54	-20.73	38.81	54	-15.19	AV
Horizontal	10420.087	63.75	-9.27	54.48	68.2	-13.72	Pk
Horizontal	10420.087	49.77	-9.27	40.50	54	-13.50	AV
Horizontal	15630.037	64.29	-7.81	56.48	74	-17.52	Pk
Horizontal	15630.037	49.41	-7.81	41.60	54	-12.40	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11a
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.177	74.93	-20.24	54.69	74	-19.31	PK
V	4679.177	59.83	-20.24	39.59	54	-14.41	AV
V	11490.145	63.08	-8.79	54.29	68.2	-13.91	PK
V	11490.145	49.10	-8.79	40.31	54	-13.69	AV
V	17235.146	55.00	-3.18	51.82	68.2	-16.38	PK
V	17235.146	44.50	-3.18	41.32	54	-12.68	AV
H	4679.015	72.14	-20.73	51.41	74	-22.59	PK
H	4679.015	59.21	-20.73	38.48	54	-15.52	AV
H	11490.198	64.90	-8.79	56.11	68.2	-12.09	PK
H	11490.198	49.68	-8.79	40.89	54	-13.11	AV
H	17235.025	57.08	-3.18	53.90	68.2	-14.30	PK
H	17235.025	44.48	-3.18	41.30	54	-12.70	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.155	70.69	-20.42	50.27	74	-23.73	PK
V	4592.155	59.19	-20.42	38.78	54	-15.22	AV
V	11570.176	62.43	-8.86	53.57	68.2	-14.63	PK
V	11570.176	49.56	-8.86	40.70	54	-13.30	AV
V	17355.011	59.97	-2.52	57.45	68.2	-10.75	PK
V	17355.011	44.58	-2.52	42.06	54	-11.94	AV
H	4592.093	73.10	-20.42	52.68	74	-21.32	PK
H	4592.093	59.36	-20.42	38.95	54	-15.05	AV
H	11570.180	64.30	-8.86	55.44	68.2	-12.76	PK
H	11570.180	49.87	-8.86	41.01	54	-12.99	AV
H	17355.072	55.51	-2.52	52.99	68.2	-15.21	PK
H	17355.072	44.14	-2.52	41.62	54	-12.38	AV
High Channel (5825 MHz)-Above 1G							
V	6039.030	74.81	-18.93	55.88	68.2	-12.32	PK
V	6039.030	59.46	-18.93	40.53	54	-13.47	AV
V	11650.042	64.25	-8.92	55.33	74	-18.67	PK
V	11650.042	49.72	-8.92	40.80	54	-13.20	AV
V	17475.010	57.59	-1.86	55.73	68.2	-12.47	PK
V	17475.010	44.05	-1.86	42.19	54	-11.81	AV
H	6039.167	70.26	-18.93	51.33	68.2	-16.87	PK
H	6039.167	59.29	-18.93	40.35	54	-13.65	AV
H	11650.060	60.99	-8.92	52.07	74	-21.93	PK
H	11650.060	49.98	-8.92	41.06	54	-12.94	AV
H	17475.031	59.42	-1.86	57.56	68.2	-10.64	PK
H	17475.031	44.32	-1.86	42.46	54	-11.54	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
V	4679.120	74.06	-20.24	53.82	74	-20.18	PK
V	4679.120	59.64	-20.24	39.40	54	-14.60	AV
V	11490.176	62.07	-8.79	53.28	68.2	-14.92	PK
V	11490.176	49.38	-8.79	40.59	54	-13.41	AV
V	17235.078	59.32	-3.18	56.14	68.2	-12.06	PK
V	17235.078	44.47	-3.18	41.29	54	-12.71	AV
H	4679.147	74.18	-20.24	53.94	74	-20.06	PK
H	4679.147	59.11	-20.24	38.87	54	-15.13	AV
H	11490.150	64.02	-8.79	55.23	68.2	-12.97	PK
H	11490.150	49.65	-8.79	40.86	54	-13.14	AV
H	17235.139	56.62	-3.18	53.44	68.2	-14.76	PK
H	17235.139	44.33	-3.18	41.15	54	-12.85	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.120	70.74	-20.42	50.33	74	-23.67	PK
V	4592.120	59.87	-20.42	39.45	54	-14.55	AV
V	11570.129	60.63	-8.86	51.77	68.2	-16.43	PK
V	11570.129	49.27	-8.86	40.41	54	-13.59	AV
V	17355.044	58.22	-2.52	55.70	68.2	-12.50	PK
V	17355.044	44.37	-2.52	41.85	54	-12.15	AV
H	4592.141	70.76	-20.42	50.34	74	-23.66	PK
H	4592.141	59.20	-20.42	38.78	54	-15.22	AV
H	11570.199	64.26	-8.86	55.40	68.2	-12.80	PK
H	11570.199	49.38	-8.86	40.52	54	-13.48	AV
H	17355.144	55.09	-2.52	52.57	68.2	-15.63	PK
H	17355.144	45.00	-2.52	42.48	54	-11.52	AV
High Channel (5825 MHz)-Above 1G							
V	6039.083	74.67	-18.93	55.74	68.2	-12.46	PK
V	6039.083	59.60	-18.93	40.67	54	-13.33	AV
V	11650.036	62.02	-8.92	53.10	74	-20.90	PK
V	11650.036	49.04	-8.92	40.12	54	-13.88	AV
V	17475.033	57.18	-1.86	55.32	68.2	-12.88	PK
V	17475.033	44.95	-1.86	43.09	54	-10.91	AV
H	6039.196	72.29	-18.93	53.35	68.2	-14.85	PK
H	6039.196	59.91	-18.93	40.98	54	-13.02	AV
H	11650.029	64.20	-8.92	55.28	74	-18.72	PK
H	11650.029	49.29	-8.92	40.37	54	-13.63	AV
H	17475.155	56.63	-1.86	54.77	68.2	-13.43	PK
H	17475.155	44.54	-1.86	42.68	54	-11.32	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.089	71.03	-20.24	50.78	74	-23.22	PK
V	4679.089	59.44	-20.24	39.19	54	-14.81	AV
V	11510.194	61.69	-8.81	52.88	74	-21.12	PK
V	11510.194	49.42	-8.81	40.61	54	-13.39	AV
V	17265.020	59.63	-3.01	56.62	68.2	-11.58	PK
V	17265.020	44.71	-3.01	41.70	54	-12.30	AV
H	4679.096	70.87	-20.24	50.62	74	-23.38	PK
H	4679.096	59.78	-20.24	39.54	54	-14.46	AV
H	11510.192	64.24	-8.81	55.43	74	-18.57	PK
H	11510.192	49.61	-8.81	40.80	54	-13.20	AV
H	17265.190	56.20	-3.01	53.19	68.2	-15.01	PK
H	17265.190	44.60	-3.01	41.59	54	-12.41	AV
High Channel (5795 MHz)-Above 1G							
V	6039.138	73.92	-18.93	54.98	68.2	-13.22	PK
V	6039.138	59.75	-18.93	40.82	54	-13.18	AV
V	11590.100	62.34	-8.87	53.47	74	-20.53	PK
V	11590.100	49.18	-8.87	40.31	54	-13.69	AV
V	17385.014	57.22	-2.35	54.87	68.2	-13.33	PK
V	17385.014	44.04	-2.35	41.69	54	-12.31	AV
H	6039.074	74.56	-18.93	55.63	68.2	-12.57	PK
H	6039.074	59.11	-18.93	40.18	54	-13.82	AV
H	11590.110	61.09	-8.87	52.22	74	-21.78	PK
H	11590.110	49.26	-8.87	40.39	54	-13.61	AV
H	17385.074	55.48	-2.35	53.13	68.2	-15.07	PK
H	17385.074	44.02	-2.35	41.67	54	-12.33	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11ac-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.085	72.15	-20.24	51.91	74	-22.09	Pk
Vertical	4679.085	59.08	-20.24	38.84	54	-15.16	AV
Vertical	11490.174	61.41	-8.79	52.62	68.2	-15.58	Pk
Vertical	11490.174	49.88	-8.79	41.09	54	-12.91	AV
Vertical	17235.013	57.49	-3.18	54.31	68.2	-13.89	Pk
Vertical	17235.013	44.93	-3.18	41.75	54	-12.25	AV
Horizontal	4679.116	72.21	-20.73	51.48	74	-22.52	Pk
Horizontal	4679.116	59.82	-20.73	39.09	54	-14.91	AV
Horizontal	11490.009	61.68	-8.79	52.89	68.2	-15.31	Pk
Horizontal	11490.009	49.50	-8.79	40.71	54	-13.29	AV
Horizontal	17235.077	59.99	-3.18	56.81	68.2	-11.39	Pk
Horizontal	17235.077	44.49	-3.18	41.31	54	-12.69	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.098	73.44	-20.42	53.02	74	-20.98	Pk
Vertical	4592.098	59.08	-20.42	38.66	54	-15.34	AV
Vertical	11570.125	61.33	-8.86	52.47	68.2	-15.73	Pk
Vertical	11570.125	49.94	-8.86	41.08	54	-12.92	AV
Vertical	17355.022	55.63	-2.52	53.11	68.2	-15.09	Pk
Vertical	17355.022	44.02	-2.52	41.50	54	-12.50	AV
Horizontal	4592.099	74.21	-20.42	53.79	74	-20.21	Pk
Horizontal	4592.099	59.84	-20.42	39.42	54	-14.58	AV
Horizontal	11570.093	60.29	-8.86	51.43	68.2	-16.77	Pk
Horizontal	11570.093	49.16	-8.86	40.30	54	-13.70	AV
Horizontal	17355.097	55.57	-2.52	53.05	68.2	-15.15	Pk
Horizontal	17355.097	44.04	-2.52	41.52	54	-12.48	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.181	70.93	-18.93	52.00	68.2	-16.20	Pk
Vertical	6039.181	59.60	-18.93	40.67	54	-13.33	AV
Vertical	11650.134	60.74	-8.92	51.82	74	-22.18	Pk
Vertical	11650.134	49.17	-8.92	40.25	54	-13.75	AV
Vertical	17475.119	57.09	-1.86	55.23	68.2	-12.97	Pk
Vertical	17475.119	44.77	-1.86	42.91	54	-11.09	AV
Horizontal	6039.150	71.32	-18.93	52.39	68.2	-15.81	Pk
Horizontal	6039.150	59.60	-18.93	40.67	54	-13.33	AV
Horizontal	11650.148	62.60	-8.92	53.68	74	-20.32	Pk
Horizontal	11650.148	49.20	-8.92	40.28	54	-13.72	AV
Horizontal	17475.011	59.39	-1.86	57.53	68.2	-10.67	Pk
Horizontal	17475.011	44.90	-1.86	43.04	54	-10.96	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.199	73.12	-20.24	52.87	74	-21.13	AV
Vertical	4679.199	59.72	-20.24	39.48	54	-14.52	Pk
Vertical	11510.028	60.28	-8.81	51.47	74	-22.53	AV
Vertical	11510.028	49.36	-8.81	40.55	54	-13.45	Pk
Vertical	17265.144	58.35	-3.01	55.34	68.2	-12.86	AV
Vertical	17265.144	44.13	-3.01	41.12	54	-12.88	Pk
Horizontal	4679.039	72.03	-20.24	51.79	74	-22.21	AV
Horizontal	4679.039	59.91	-20.24	39.67	54	-14.33	Pk
Horizontal	11510.011	62.83	-8.81	54.02	74	-19.98	AV
Horizontal	11510.011	49.20	-8.81	40.39	54	-13.61	Pk
Horizontal	17265.022	55.67	-3.01	52.66	68.2	-15.54	AV
Horizontal	17265.022	44.27	-3.01	41.26	54	-12.74	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.040	74.98	-18.93	56.05	68.2	-12.15	Pk
Vertical	6039.040	59.45	-18.93	40.51	54	-13.49	AV
Vertical	11590.164	64.26	-8.87	55.39	74	-18.61	Pk
Vertical	11590.164	49.53	-8.87	40.66	54	-13.34	AV
Vertical	17385.045	55.78	-2.35	53.43	68.2	-14.77	Pk
Vertical	17385.045	44.80	-2.35	42.45	54	-11.55	AV
Horizontal	6039.112	72.85	-18.93	53.91	68.2	-14.29	Pk
Horizontal	6039.112	59.63	-18.93	40.70	54	-13.30	AV
Horizontal	11590.147	61.20	-8.87	52.33	74	-21.67	Pk
Horizontal	11590.147	49.15	-8.87	40.28	54	-13.72	AV
Horizontal	17385.039	56.95	-2.35	54.60	68.2	-13.60	Pk
Horizontal	17385.039	44.70	-2.35	42.35	54	-11.65	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11ac-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.090	72.39	-20.24	52.14	74	-21.86	Pk
Vertical	4679.090	59.49	-20.24	39.25	54	-14.75	AV
Vertical	11550.075	64.72	-8.84	55.88	74	-18.12	Pk
Vertical	11550.075	49.13	-8.84	40.29	54	-13.71	AV
Vertical	17325.144	57.01	-2.68	54.33	68.2	-13.87	Pk
Vertical	17325.144	44.38	-2.68	41.70	54	-12.30	AV
Horizontal	4679.005	74.48	-20.24	54.24	74	-19.76	Pk
Horizontal	4679.005	59.53	-20.24	39.29	54	-14.71	AV
Horizontal	11550.011	61.71	-8.84	52.87	74	-21.13	Pk
Horizontal	11550.011	49.97	-8.84	41.13	54	-12.87	AV
Horizontal	17325.161	57.83	-2.68	55.15	68.2	-13.05	Pk
Horizontal	17325.161	44.24	-2.68	41.56	54	-12.44	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode: TX(5.8G) - 802.11ax-HE20

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.015	70.49	-20.24	50.25	74	-23.75	Pk
Vertical	4679.015	59.92	-20.24	39.68	54	-14.32	AV
Vertical	11490.181	61.36	-8.79	52.57	68.2	-15.63	Pk
Vertical	11490.181	49.09	-8.79	40.30	54	-13.70	AV
Vertical	17235.007	56.67	-3.18	53.49	68.2	-14.71	Pk
Vertical	17235.007	44.83	-3.18	41.65	54	-12.35	AV
Horizontal	4679.020	71.32	-20.73	50.59	74	-23.41	Pk
Horizontal	4679.020	59.02	-20.73	38.29	54	-15.71	AV
Horizontal	11490.168	64.00	-8.79	55.21	68.2	-12.99	Pk
Horizontal	11490.168	49.37	-8.79	40.58	54	-13.42	AV
Horizontal	17235.180	55.05	-3.18	51.87	68.2	-16.33	Pk
Horizontal	17235.180	44.55	-3.18	41.37	54	-12.63	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.041	71.69	-20.42	51.27	74	-22.73	Pk
Vertical	4592.041	59.93	-20.42	39.52	54	-14.48	AV
Vertical	11570.043	60.97	-8.86	52.11	68.2	-16.09	Pk
Vertical	11570.043	49.89	-8.86	41.03	54	-12.97	AV
Vertical	17355.085	58.47	-2.52	55.95	68.2	-12.25	Pk
Vertical	17355.085	44.99	-2.52	42.47	54	-11.53	AV
Horizontal	4592.123	71.04	-20.42	50.63	74	-23.37	Pk
Horizontal	4592.123	59.30	-20.42	38.89	54	-15.11	AV
Horizontal	11570.031	64.87	-8.86	56.01	68.2	-12.19	Pk
Horizontal	11570.031	49.49	-8.86	40.63	54	-13.37	AV
Horizontal	17355.122	56.31	-2.52	53.79	68.2	-14.41	Pk
Horizontal	17355.122	44.68	-2.52	42.16	54	-11.84	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.032	74.37	-18.93	55.44	68.2	-12.76	Pk
Vertical	6039.032	59.80	-18.93	40.87	54	-13.13	AV
Vertical	11650.104	61.78	-8.92	52.86	74	-21.14	Pk
Vertical	11650.104	49.47	-8.92	40.55	54	-13.45	AV
Vertical	17475.040	59.50	-1.86	57.64	68.2	-10.56	Pk
Vertical	17475.040	44.17	-1.86	42.31	54	-11.69	AV
Horizontal	6039.071	72.11	-18.93	53.17	68.2	-15.03	Pk
Horizontal	6039.071	59.04	-18.93	40.10	54	-13.90	AV
Horizontal	11650.050	61.01	-8.92	52.09	74	-21.91	Pk
Horizontal	11650.050	49.77	-8.92	40.85	54	-13.15	AV
Horizontal	17475.041	57.38	-1.86	55.52	68.2	-12.68	Pk
Horizontal	17475.041	44.53	-1.86	42.67	54	-11.33	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11ax-HE40
------------	--------------------------

Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.039	70.89	-20.24	50.65	74	-23.35	AV
Vertical	4679.039	59.41	-20.24	39.17	54	-14.83	Pk
Vertical	11510.156	61.07	-8.81	52.26	74	-21.74	AV
Vertical	11510.156	49.63	-8.81	40.82	54	-13.18	Pk
Vertical	17265.141	55.28	-3.01	52.27	68.2	-15.93	AV
Vertical	17265.141	44.20	-3.01	41.19	54	-12.81	Pk
Horizontal	4679.176	74.74	-20.24	54.50	74	-19.50	AV
Horizontal	4679.176	59.90	-20.24	39.66	54	-14.34	Pk
Horizontal	11510.000	61.27	-8.81	52.46	74	-21.54	AV
Horizontal	11510.000	49.88	-8.81	41.07	54	-12.93	Pk
Horizontal	17265.197	56.46	-3.01	53.45	68.2	-14.75	AV
Horizontal	17265.197	44.28	-3.01	41.27	54	-12.73	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.124	70.46	-18.93	51.53	68.2	-16.67	Pk
Vertical	6039.124	59.65	-18.93	40.72	54	-13.28	AV
Vertical	11590.074	63.24	-8.87	54.37	74	-19.63	Pk
Vertical	11590.074	49.19	-8.87	40.32	54	-13.68	AV
Vertical	17385.034	57.00	-2.35	54.65	68.2	-13.55	Pk
Vertical	17385.034	44.86	-2.35	42.51	54	-11.49	AV
Horizontal	6039.033	73.08	-18.93	54.15	68.2	-14.05	Pk
Horizontal	6039.033	59.84	-18.93	40.91	54	-13.09	AV
Horizontal	11590.187	63.38	-8.87	54.51	74	-19.49	Pk
Horizontal	11590.187	49.47	-8.87	40.60	54	-13.40	AV
Horizontal	17385.073	55.27	-2.35	52.92	68.2	-15.28	Pk
Horizontal	17385.073	44.64	-2.35	42.29	54	-11.71	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11ax-HE80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.171	74.86	-20.24	54.62	74	-19.38	Pk
Vertical	4679.171	59.39	-20.24	39.15	54	-14.85	AV
Vertical	11550.017	60.42	-8.84	51.58	74	-22.42	Pk
Vertical	11550.017	49.07	-8.84	40.23	54	-13.77	AV
Vertical	17325.001	56.01	-2.68	53.33	68.2	-14.87	Pk
Vertical	17325.001	44.28	-2.68	41.60	54	-12.40	AV
Horizontal	4679.029	71.95	-20.24	51.71	74	-22.29	Pk
Horizontal	4679.029	59.01	-20.24	38.77	54	-15.23	AV
Horizontal	11550.193	61.48	-8.84	52.64	74	-21.36	Pk
Horizontal	11550.193	49.37	-8.84	40.53	54	-13.47	AV
Horizontal	17325.076	58.58	-2.68	55.90	68.2	-12.30	Pk
Horizontal	17325.076	44.01	-2.68	41.33	54	-12.67	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

- ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
- All the modes 802.11a/n/ax has been tested and the worst result 802.11a20 recorded as below:

Test mode: 802.11a20 Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5150.74	H	61.56	74	40.93	54
5150.96	V	65.95	74	43.67	54

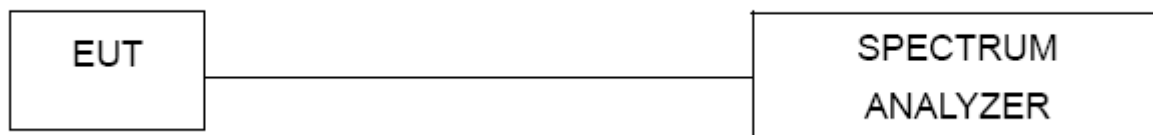
Test mode: 802.11a20 Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5360.23	H	62.15	74	40.72	54
5360.76	V	60.43	74	39.26	54

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
(2) Emission Level= Reading Level+Correct Factor.
(3) Correct Factor= Ant_F + Cab_L - Preamp

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

(i) For an outdoor Wifi Repeater operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor Wifi Repeater operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point Wifi Repeaters operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3 Test procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHz is available on nearly all spectrum analyzers.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

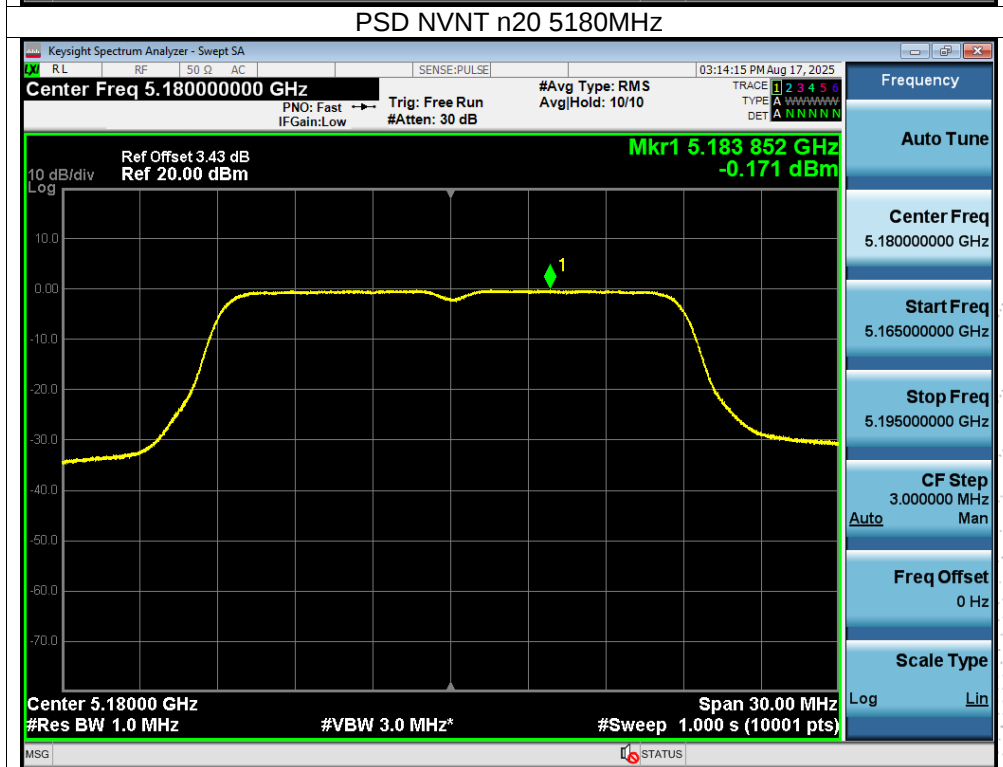
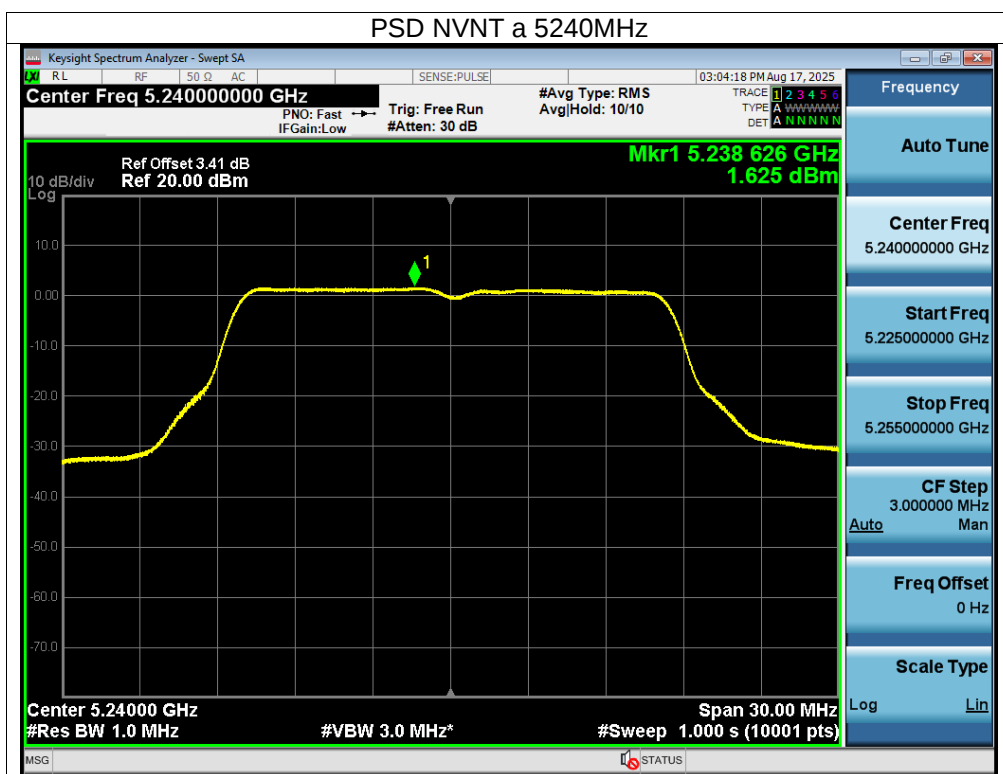
8.5 Test Result

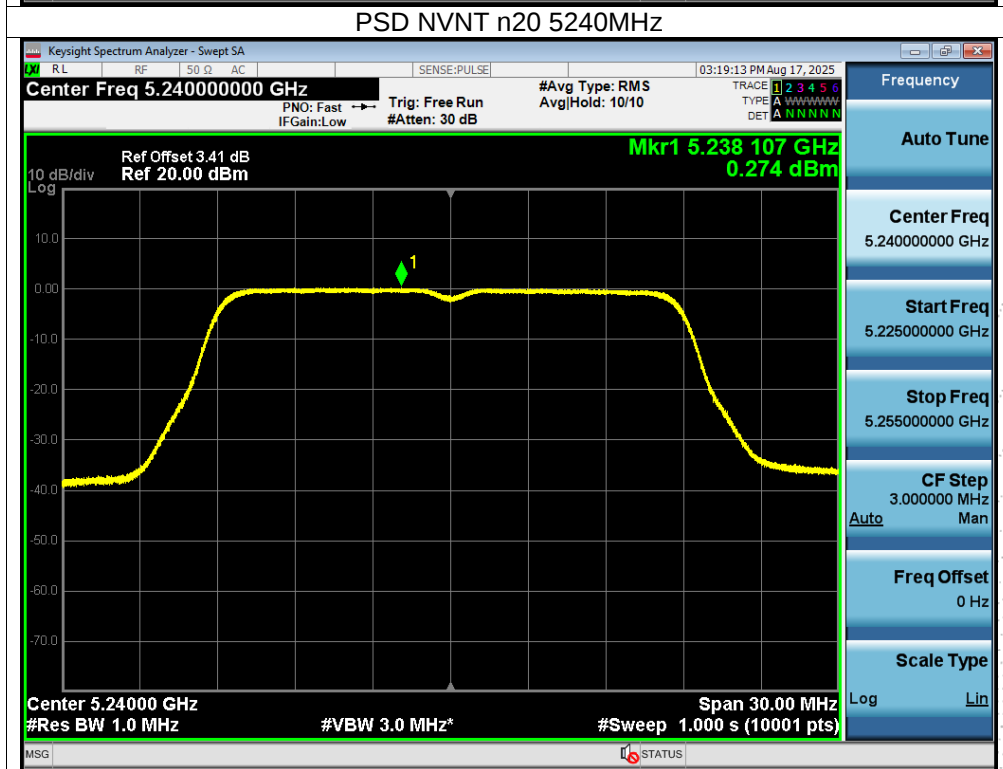
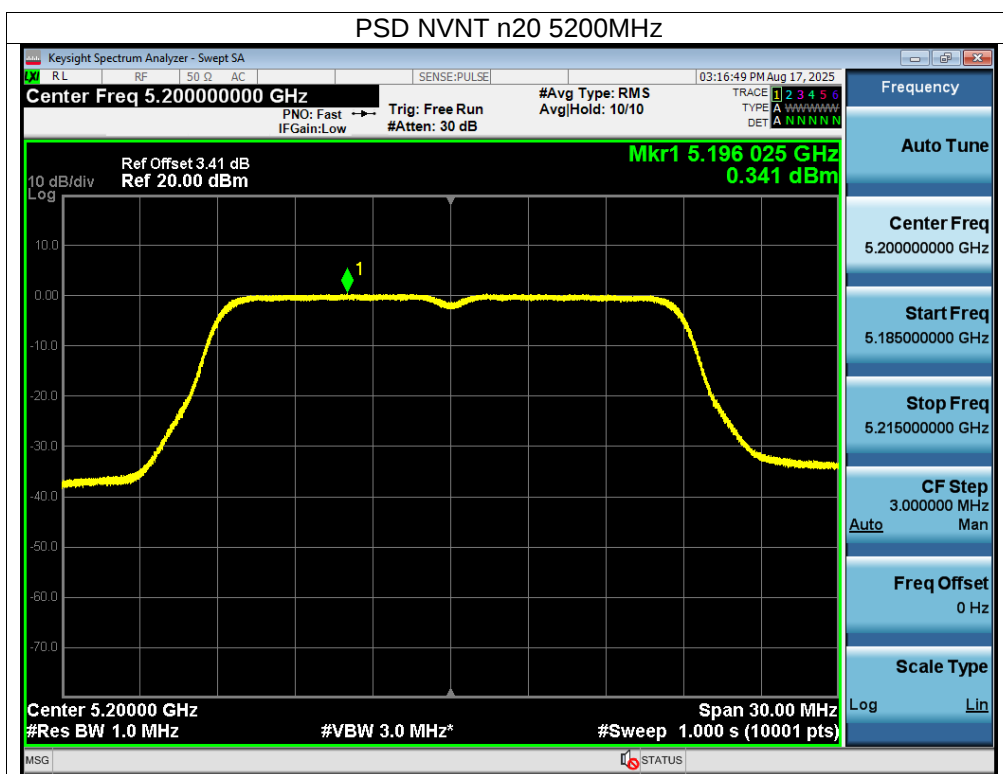
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	(5180-5240MHz); (5745-5825MHz)		

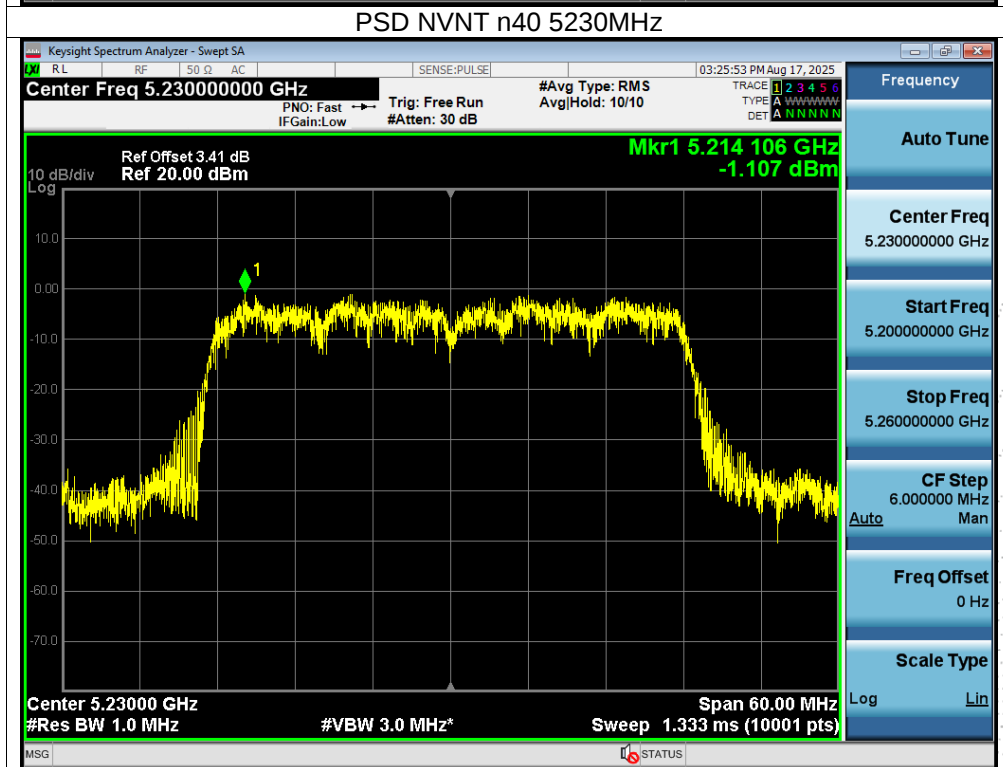
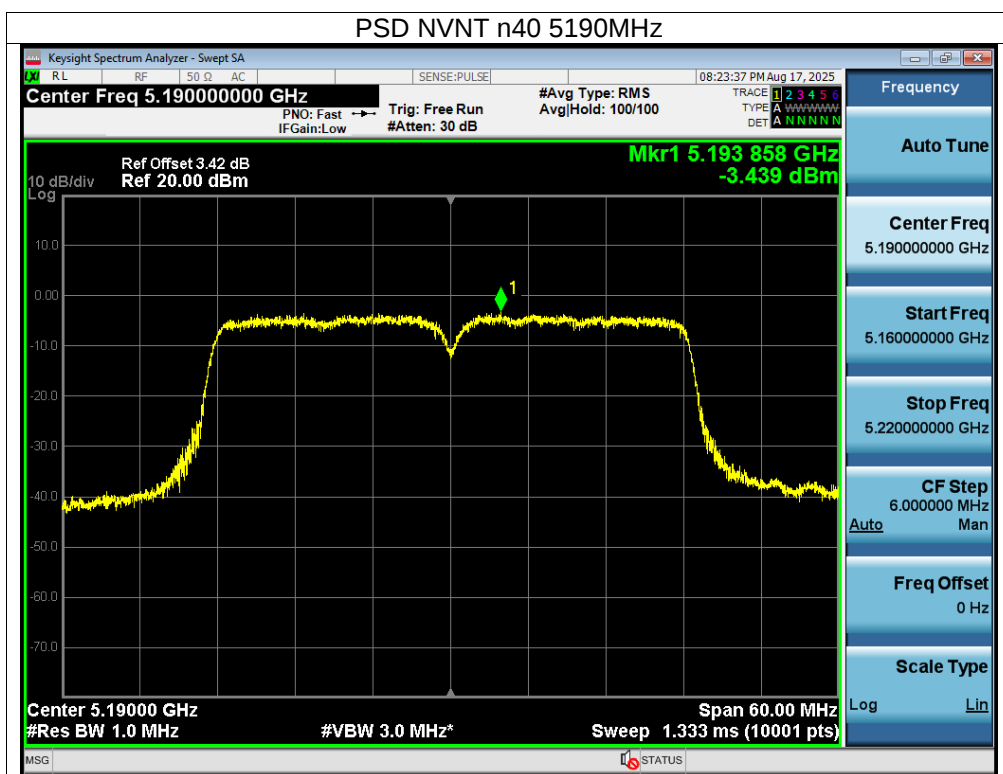
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	1.27	11	Pass
NVNT	a	5200	2.14	11	Pass
NVNT	a	5240	1.63	11	Pass
NVNT	n20	5180	-0.17	11	Pass
NVNT	n20	5200	0.34	11	Pass
NVNT	n20	5240	0.27	11	Pass
NVNT	n40	5190	-3.44	11	Pass
NVNT	n40	5230	-1.11	11	Pass
NVNT	ac20	5180	-0.22	11	Pass
NVNT	ac20	5200	0.27	11	Pass
NVNT	ac20	5240	0.12	11	Pass
NVNT	ac40	5190	-3.3	11	Pass
NVNT	ac40	5230	-3.06	11	Pass
NVNT	ac80	5210	-7.35	11	Pass
NVNT	ax20	5180	0.72	11	Pass
NVNT	ax20	5200	0.43	11	Pass
NVNT	ax20	5240	0.63	11	Pass
NVNT	ax40	5190	-1.86	11	Pass
NVNT	ax40	5230	-2.61	11	Pass
NVNT	ax80	5210	-6.54	11	Pass

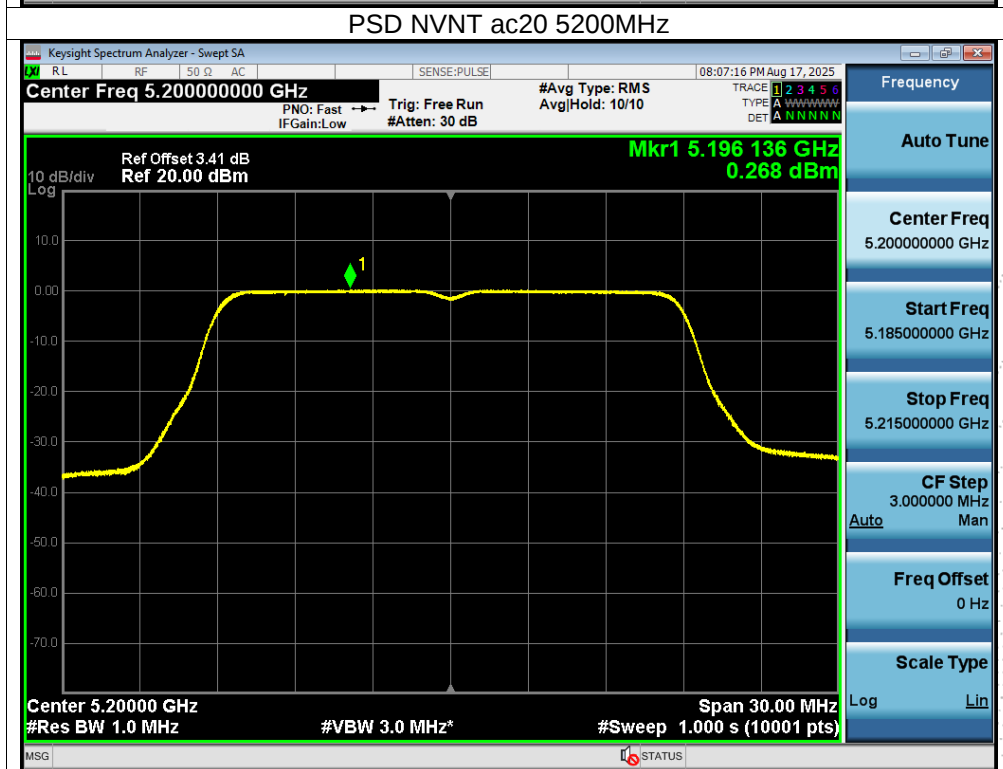
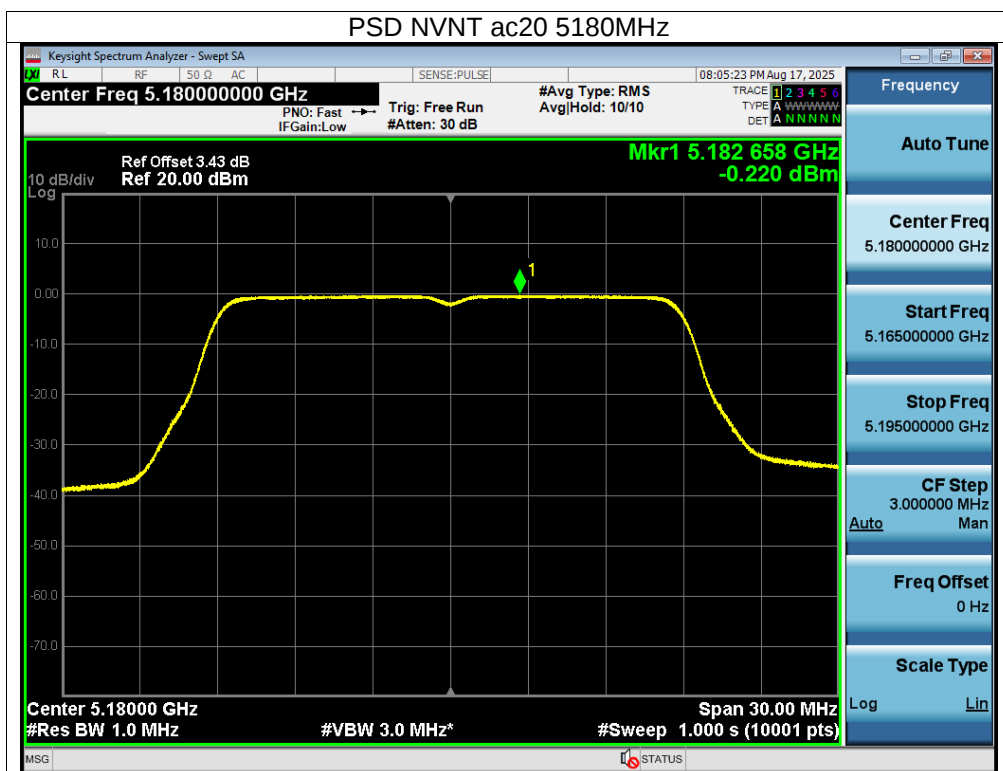
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-1.88	30	Pass
NVNT	a	5785	-1.86	30	Pass
NVNT	a	5825	-2.15	30	Pass
NVNT	n20	5745	-2.85	30	Pass
NVNT	n20	5785	-3.02	30	Pass
NVNT	n20	5825	-3.37	30	Pass
NVNT	n40	5755	-5.46	30	Pass
NVNT	n40	5795	-5.83	30	Pass
NVNT	ac20	5745	-2.1	30	Pass
NVNT	ac20	5785	-3.14	30	Pass
NVNT	ac20	5825	-2.75	30	Pass
NVNT	ac40	5755	-5.05	30	Pass
NVNT	ac40	5795	-6.65	30	Pass
NVNT	ac80	5775	-9.3	30	Pass
NVNT	ax20	5745	-2.72	30	Pass
NVNT	ax20	5785	-1.74	30	Pass
NVNT	ax20	5825	-2.69	30	Pass
NVNT	ax40	5755	-5.46	30	Pass
NVNT	ax40	5795	-5.56	30	Pass
NVNT	ax80	5775	-9.71	30	Pass

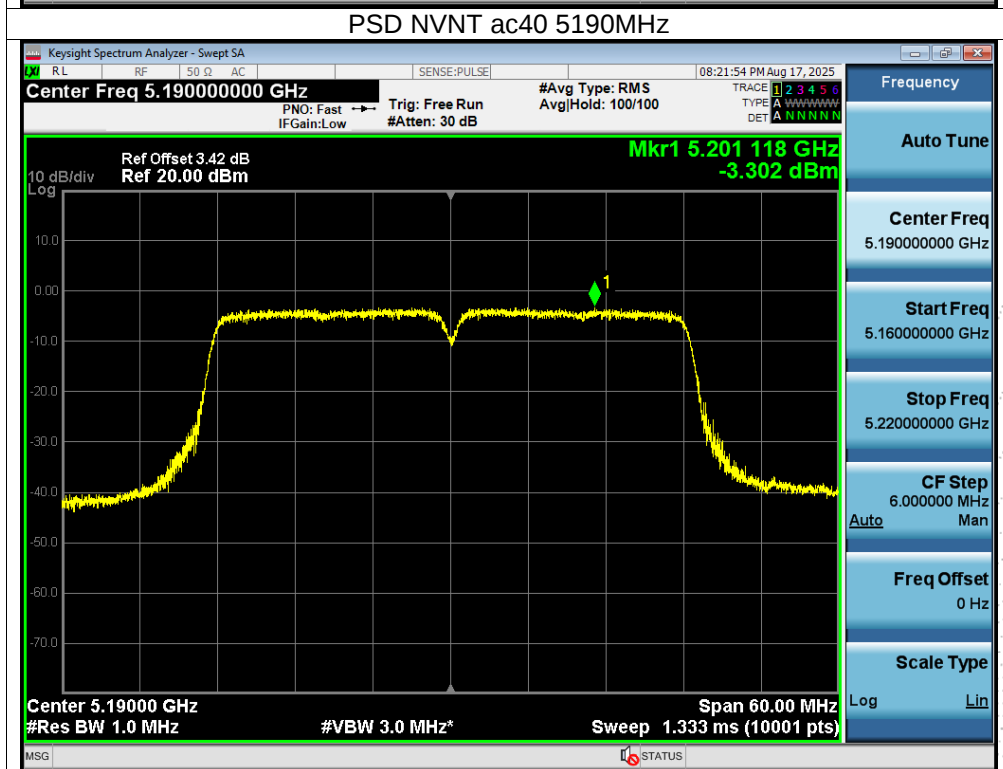
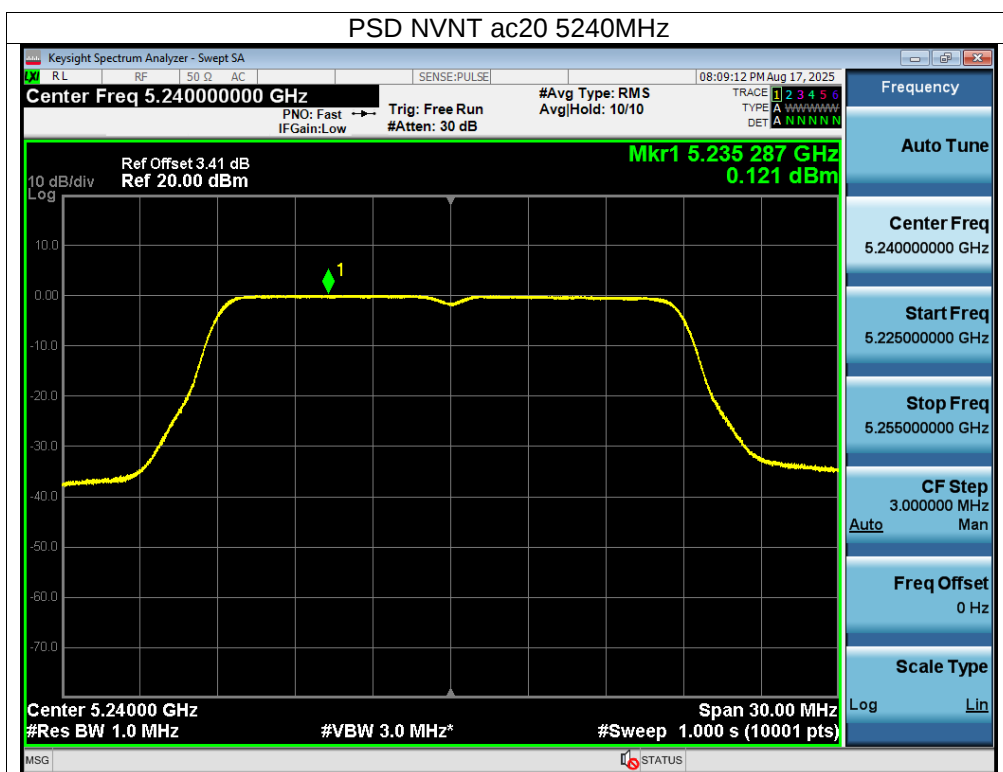


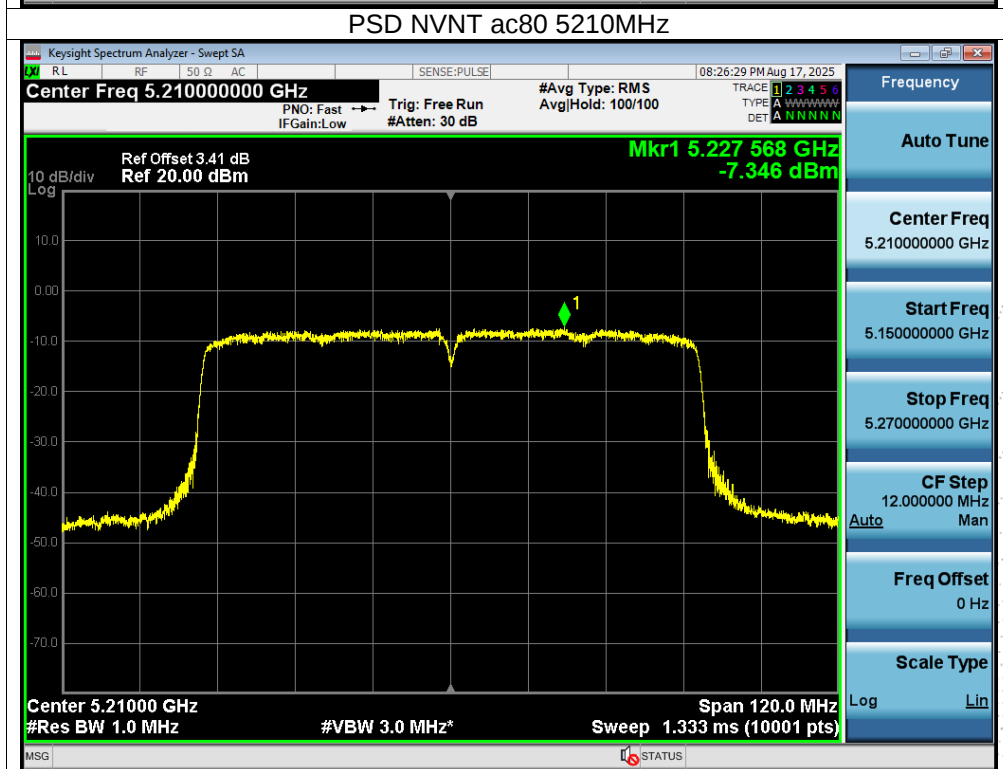
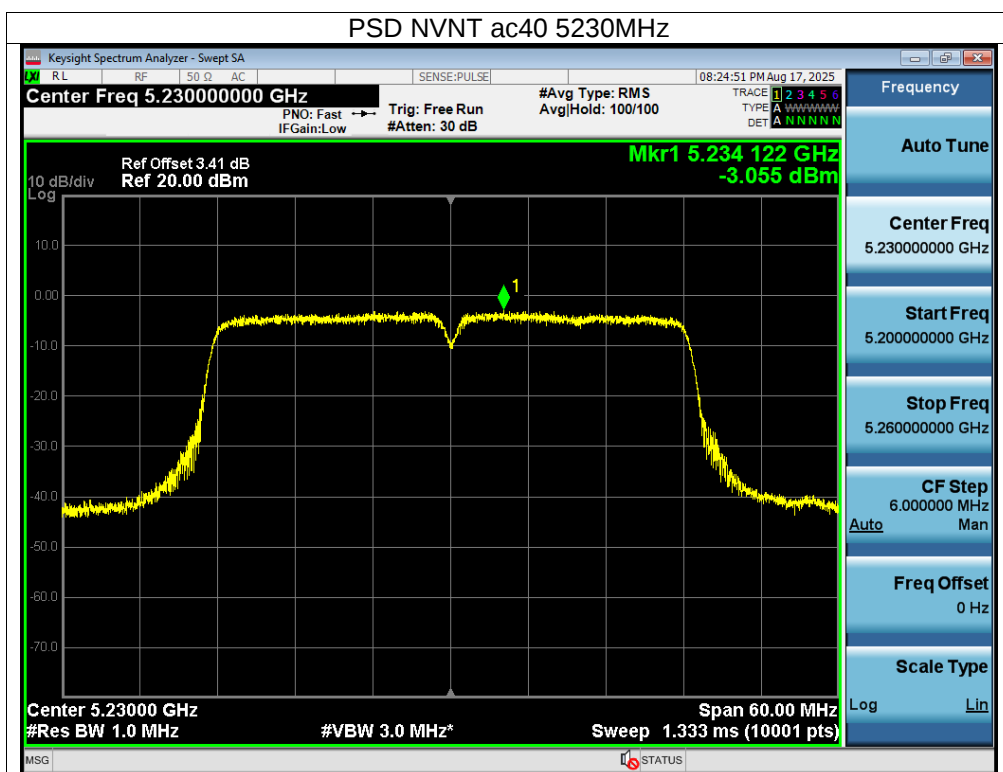


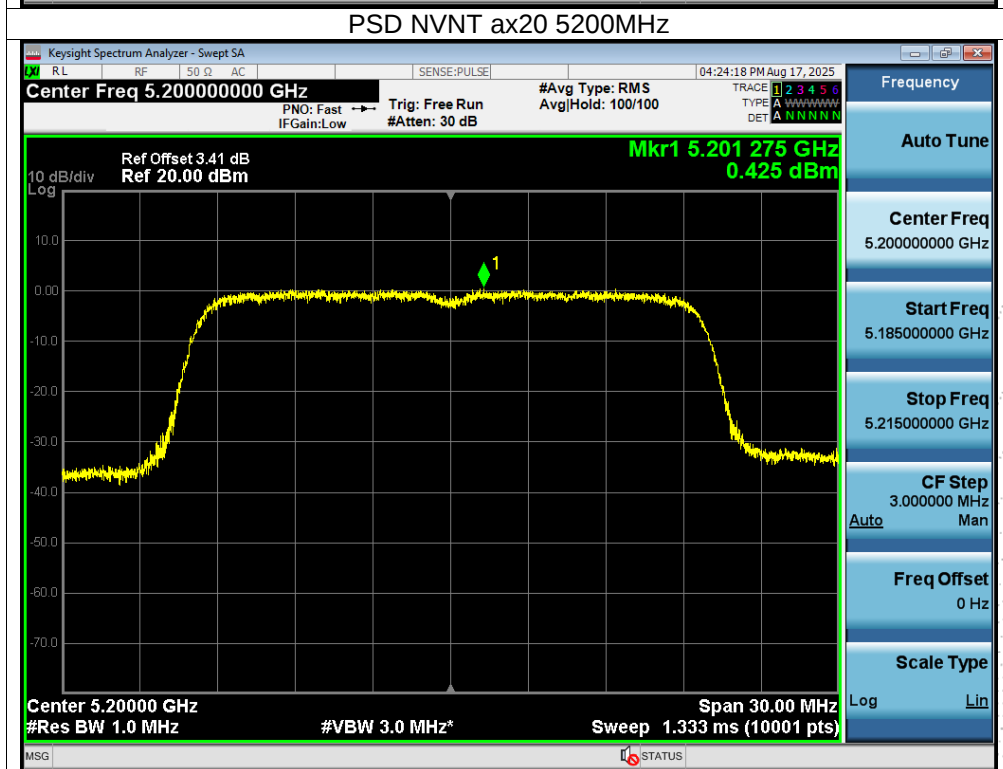
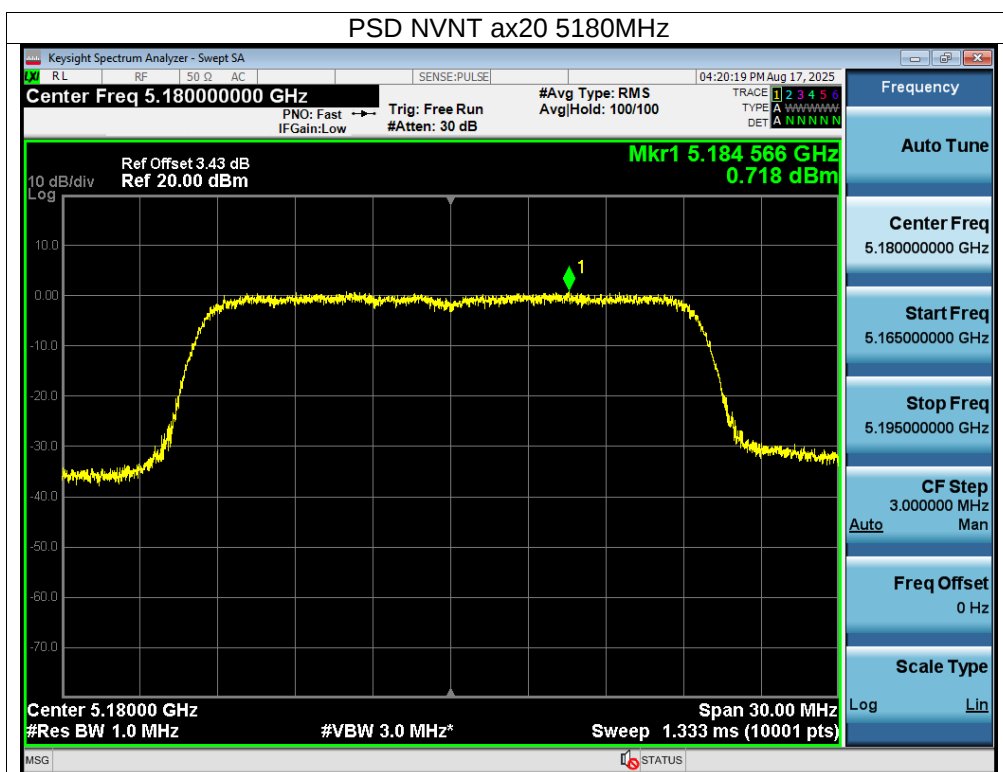


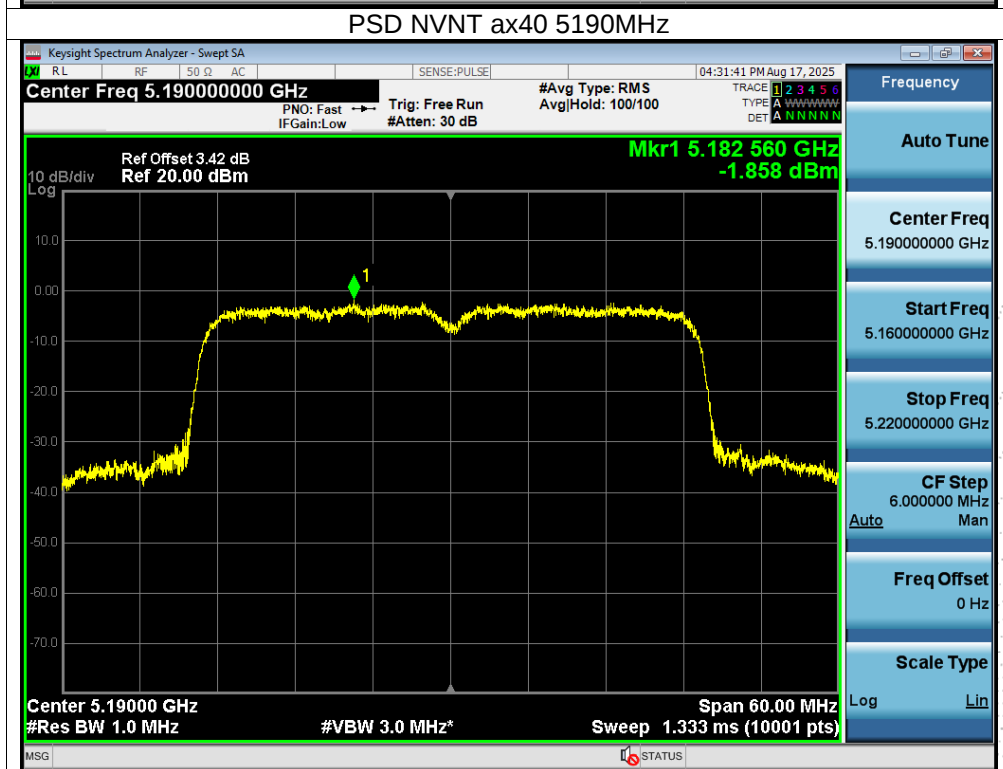
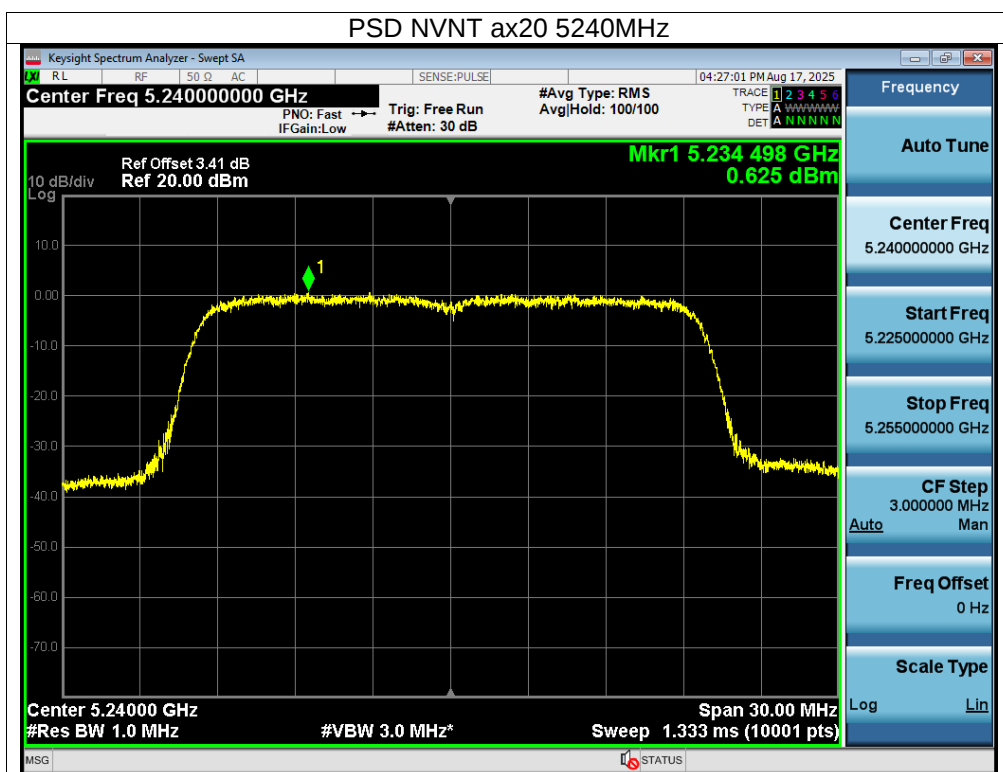


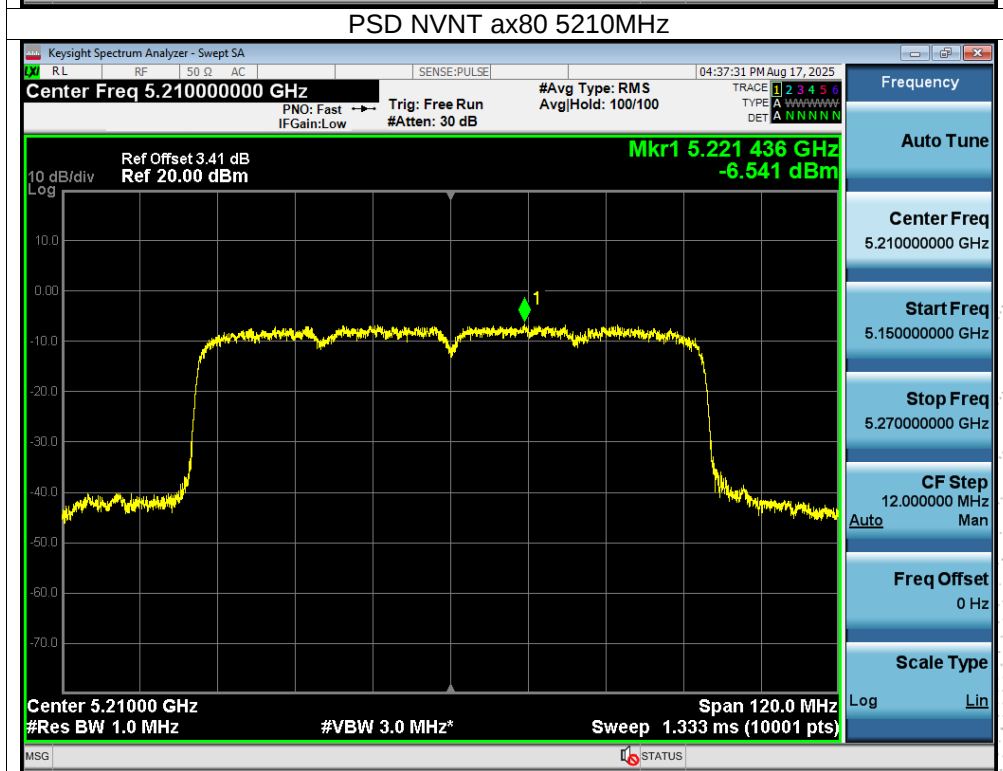
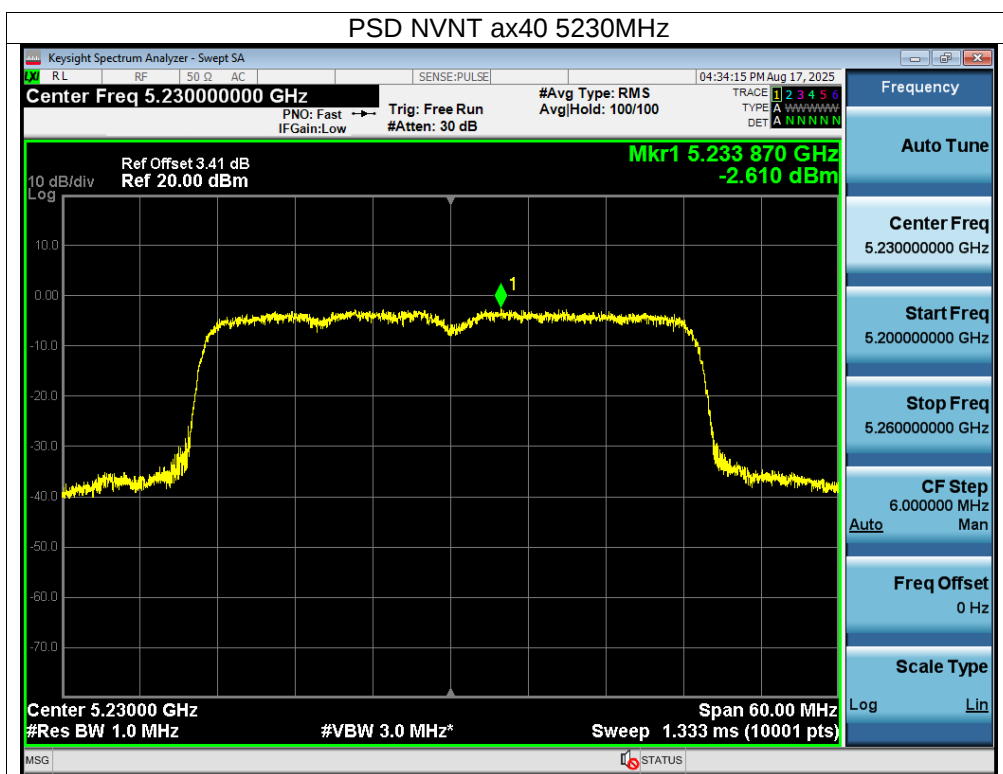












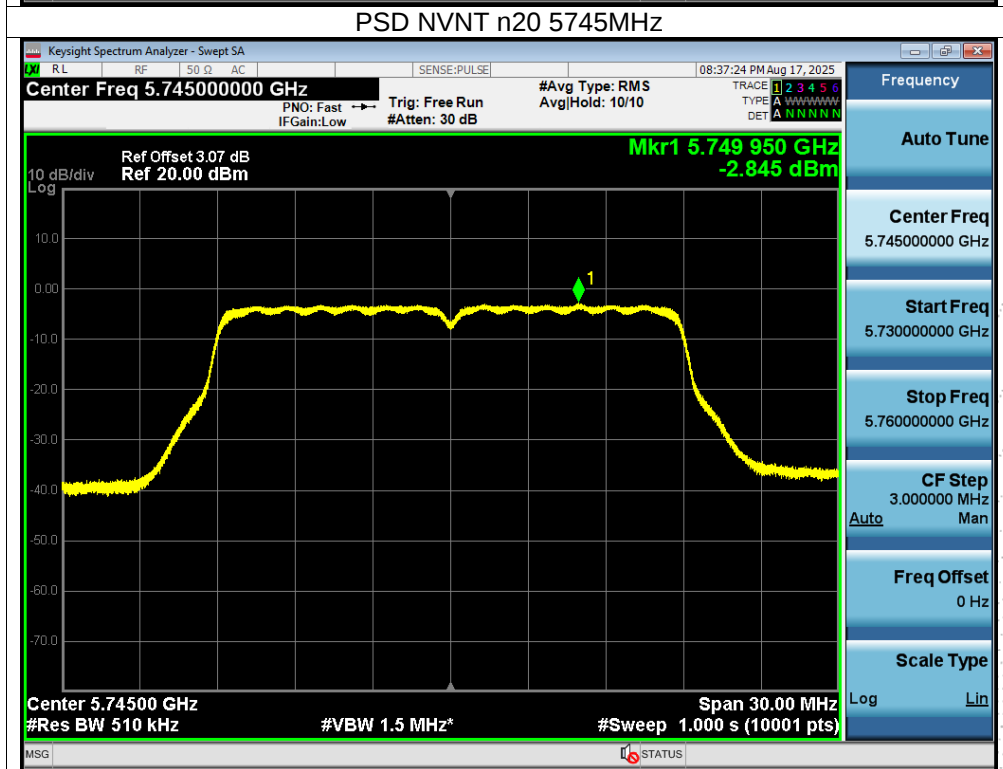
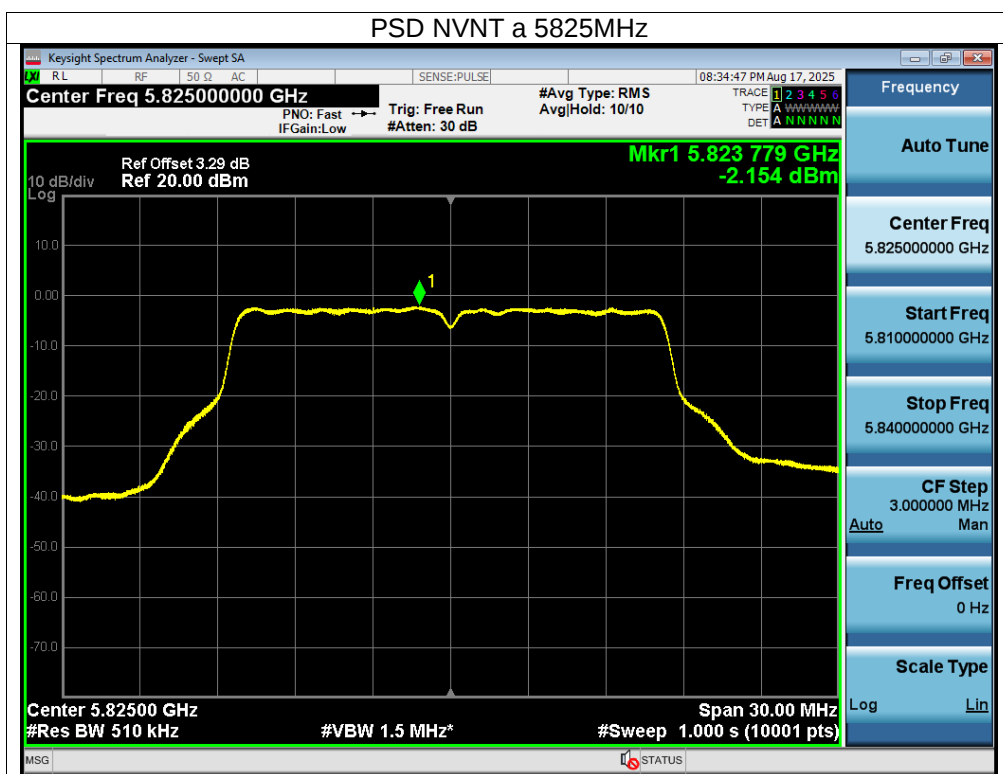
Test Graphs

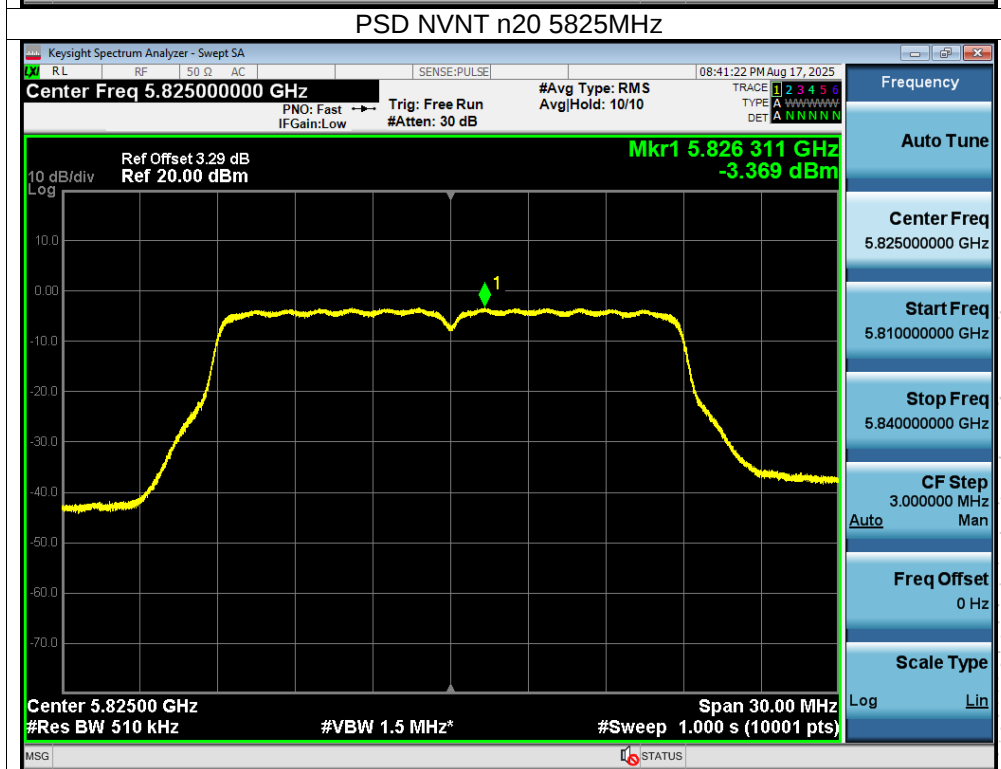
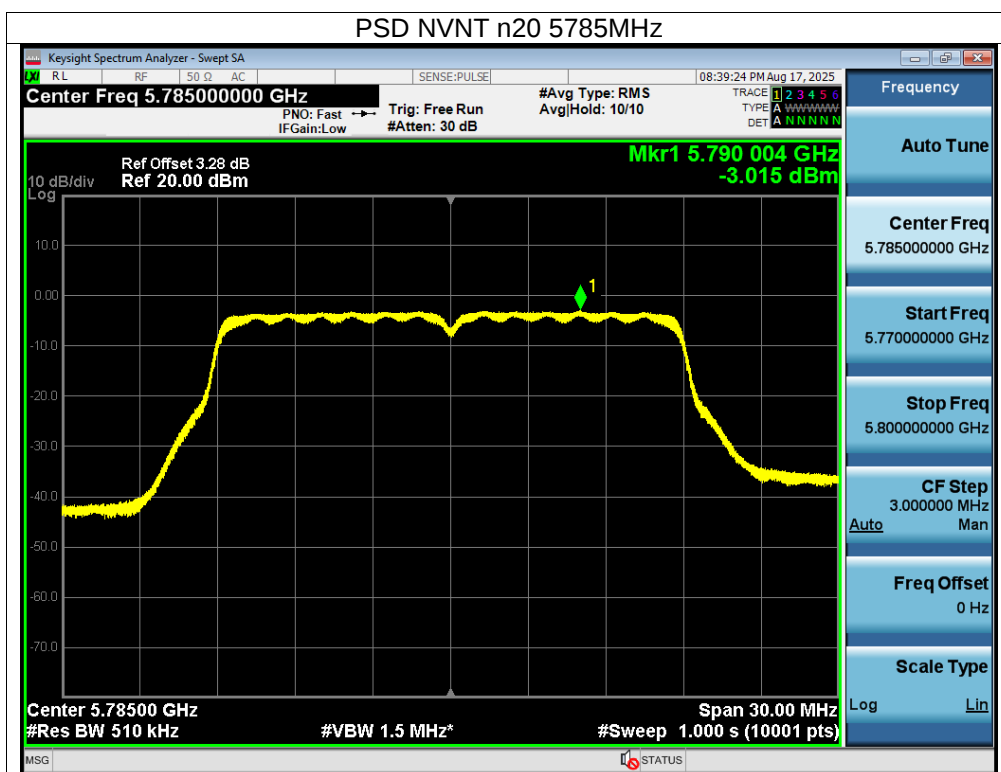
PSD NVNT a 5745MHz

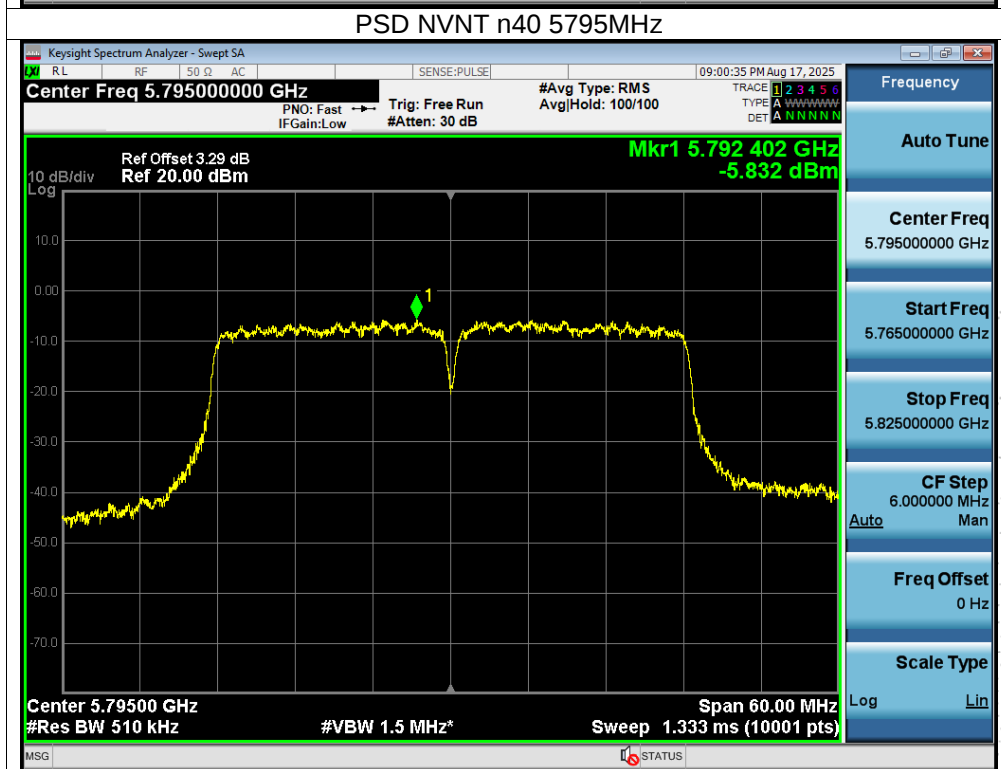
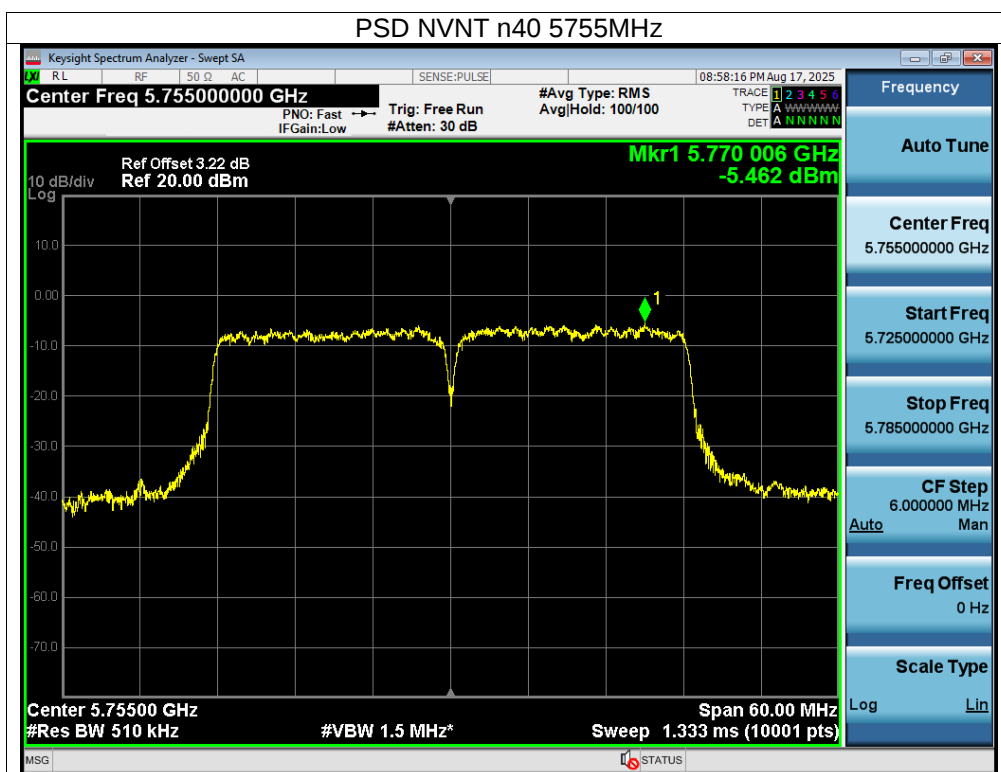


PSD NVNT a 5785MHz

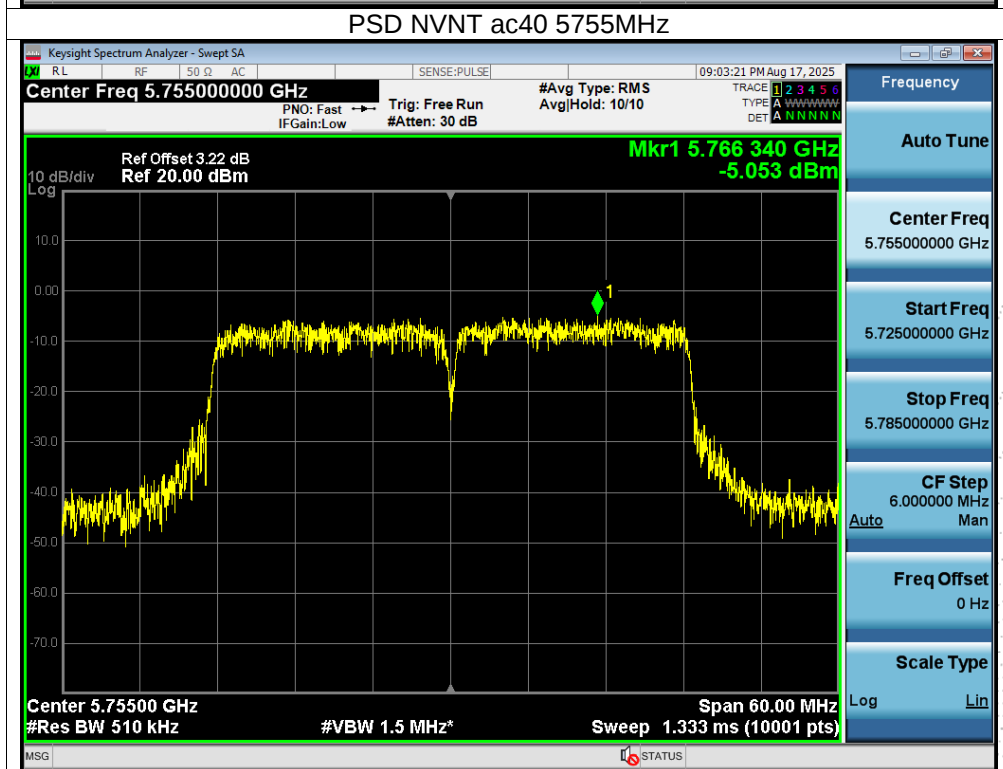
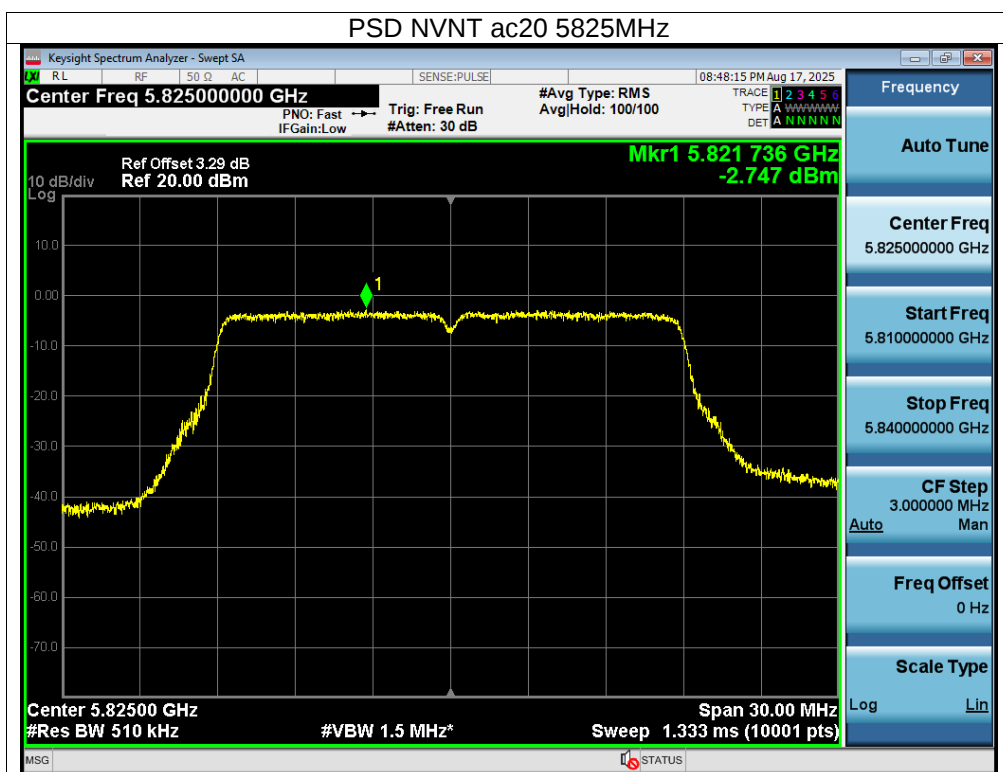


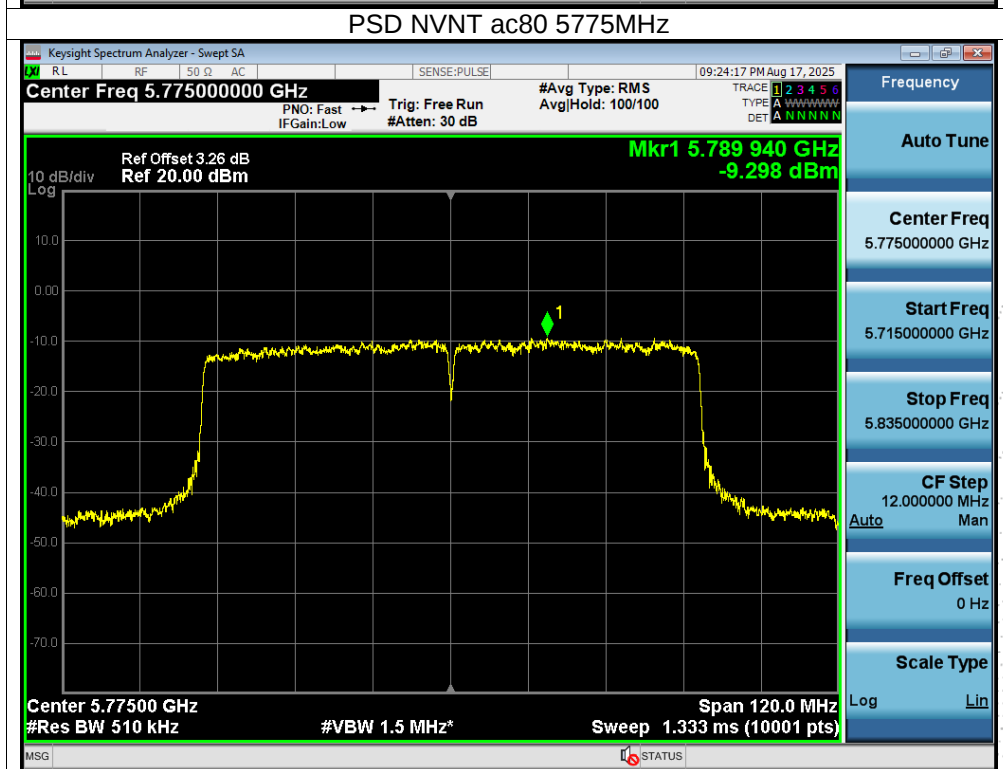
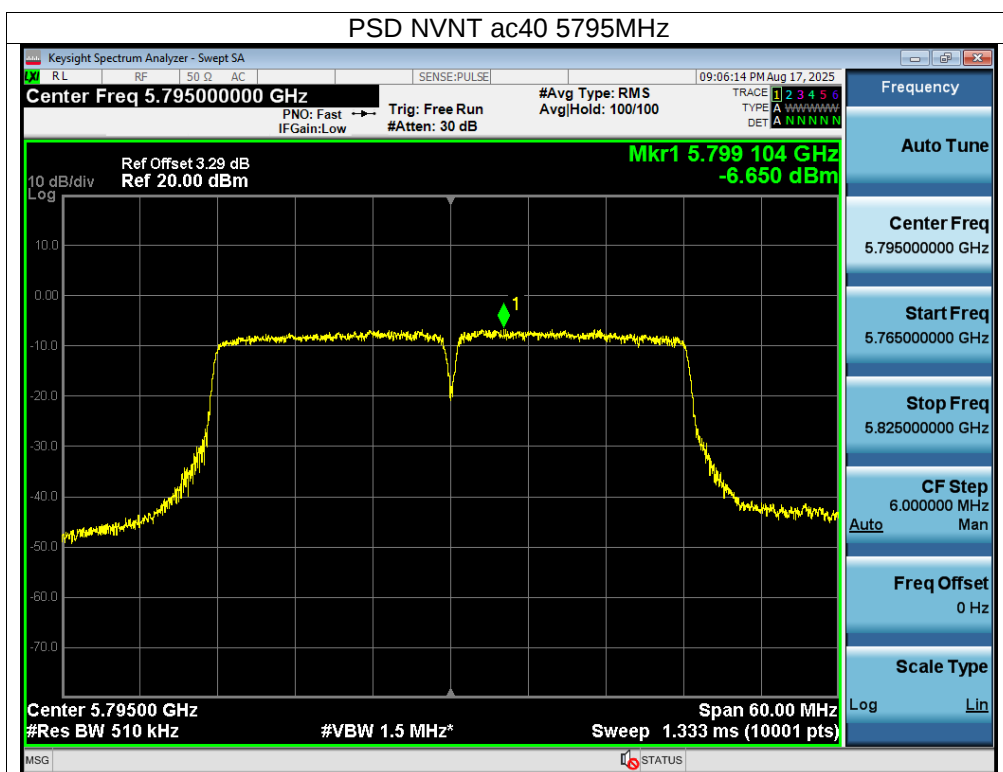


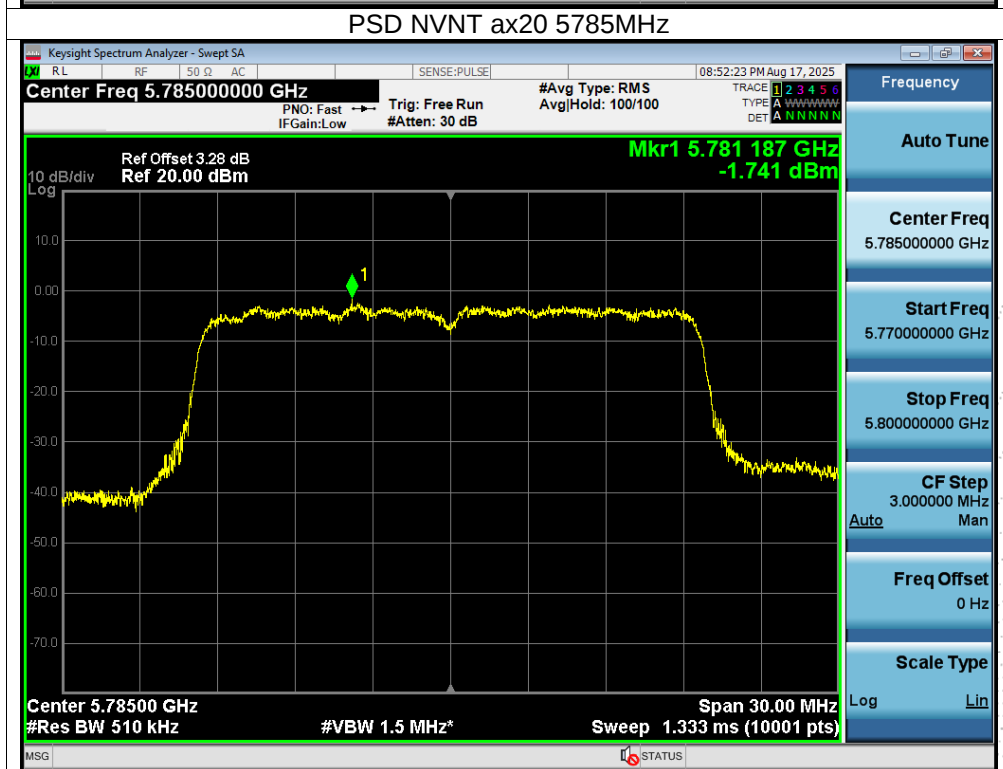
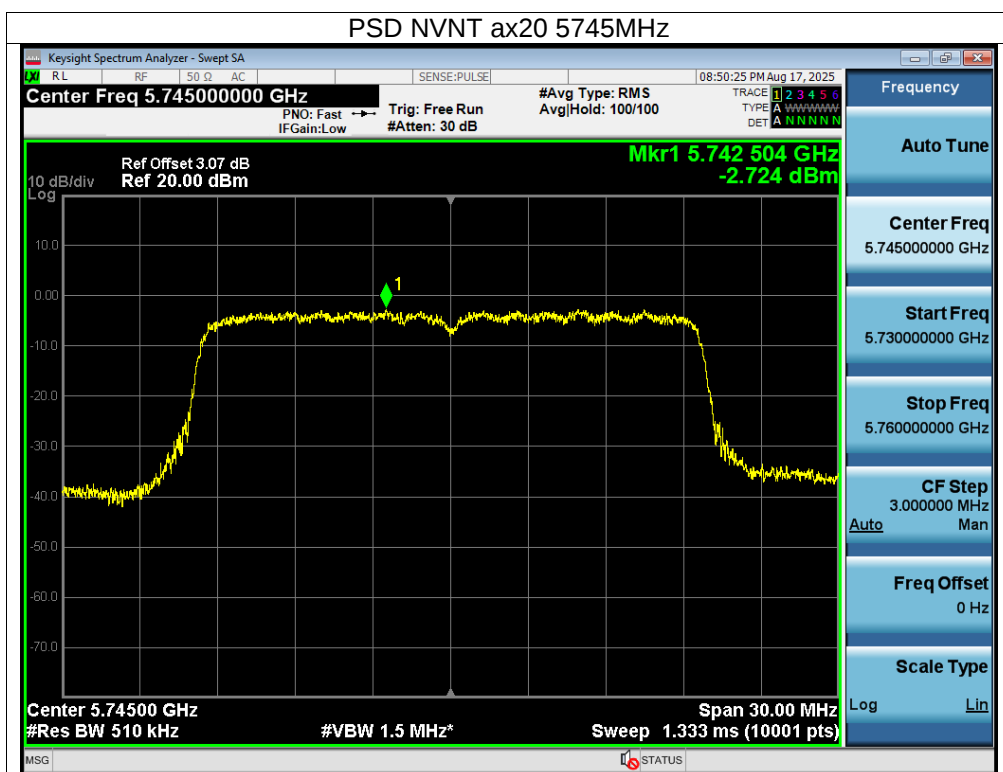


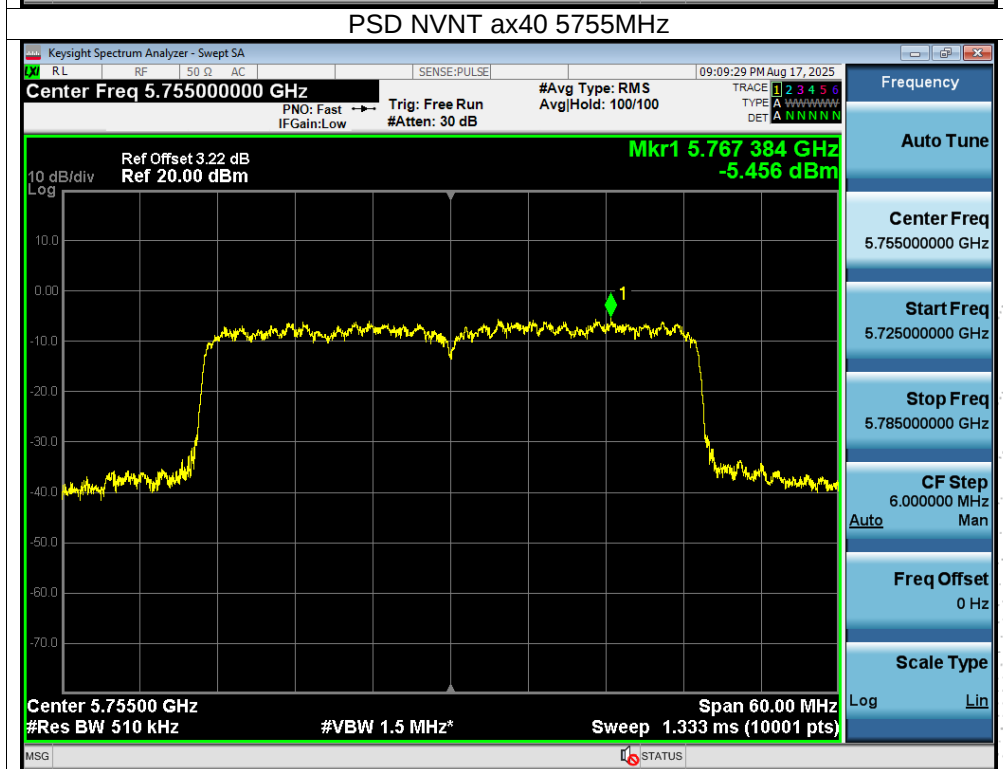
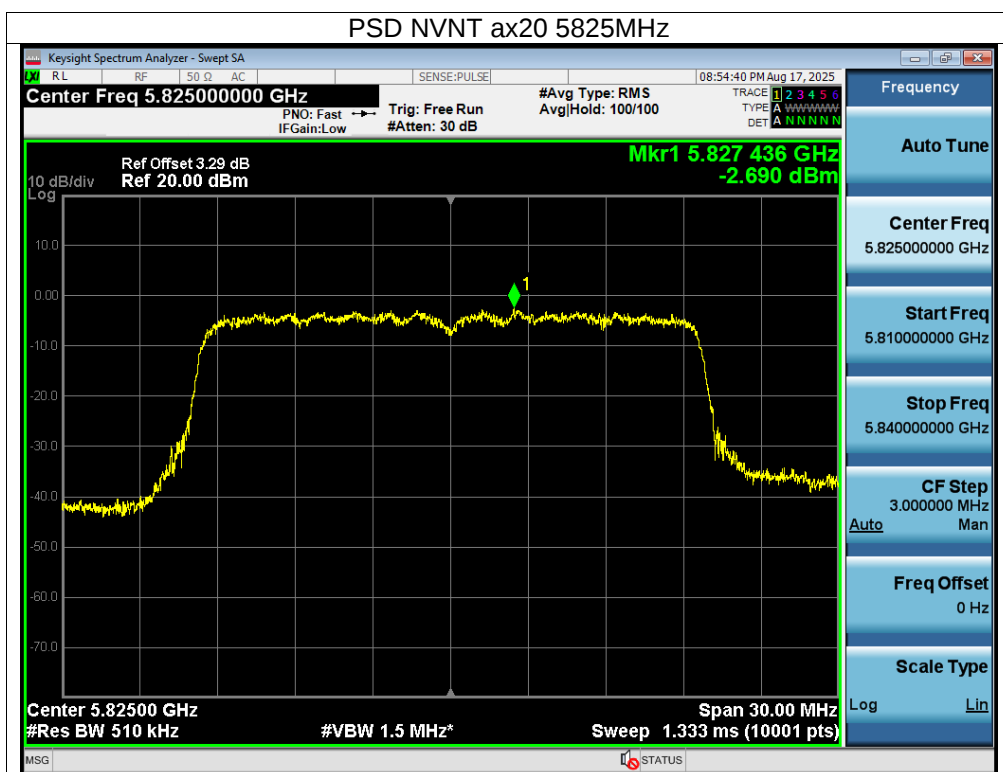


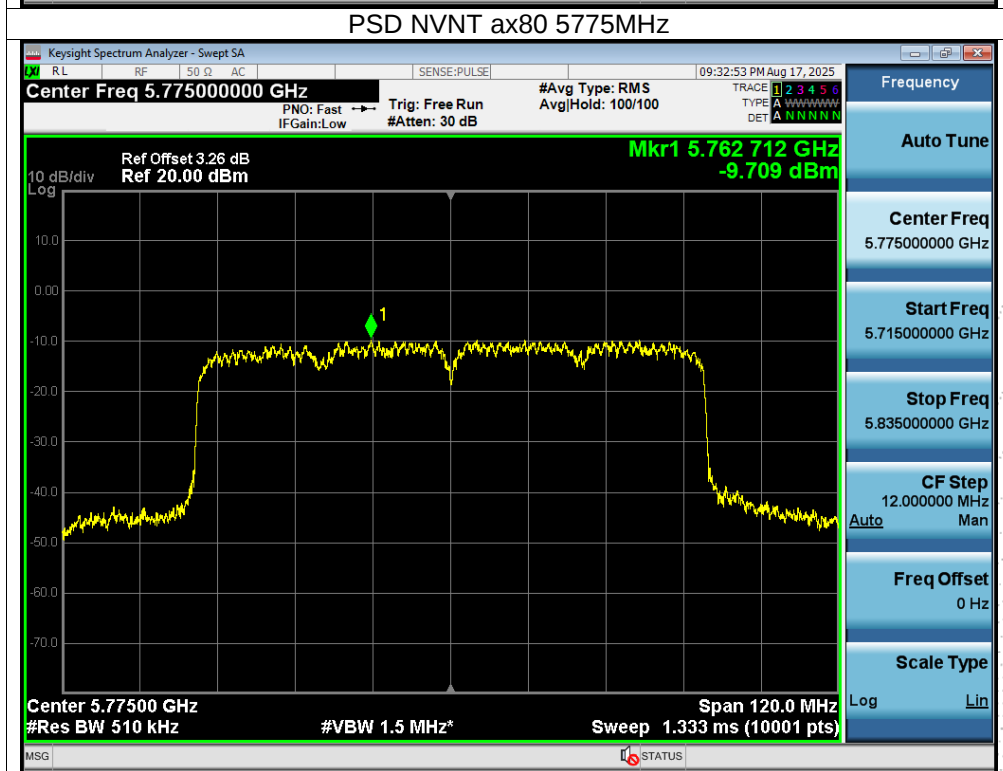
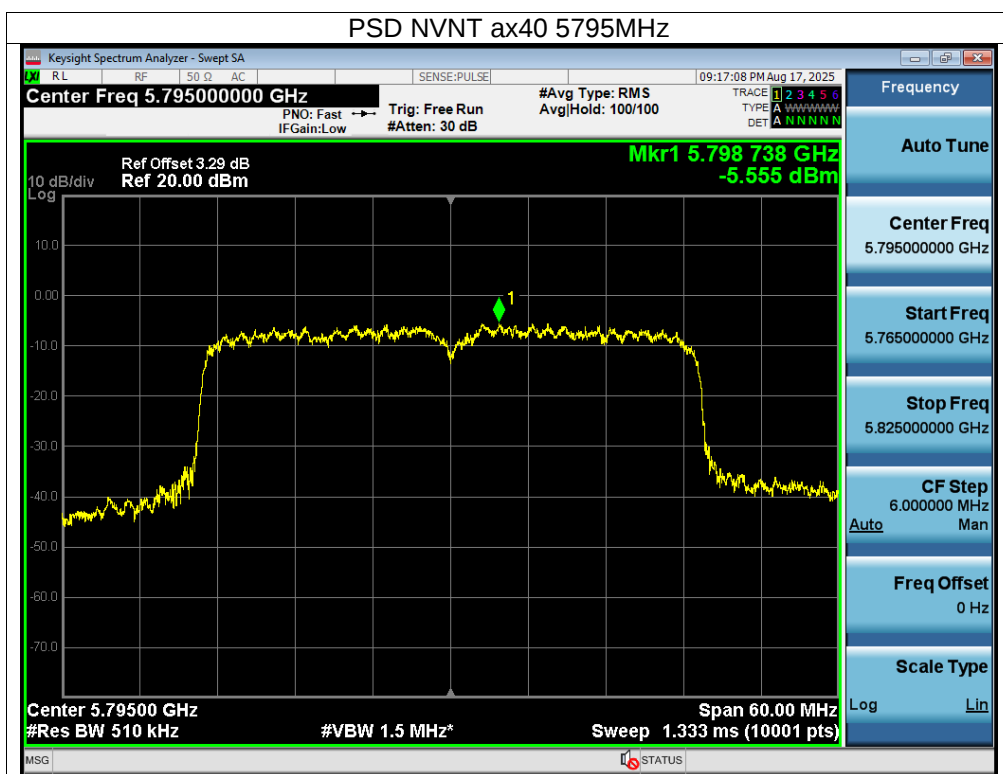






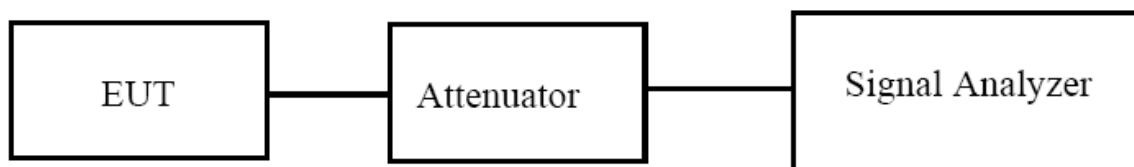






9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

9.3 Test procedure

a) Set RBW = approximately 1% of the emission bandwidth.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.

2. Set span = 1.5 times to 5.0 times the OBW.

3. Set RBW = 1 % to 5 % of the OBW

4. Set VBW $\geq 3 \cdot$ RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

9.4 EUT operating Conditions

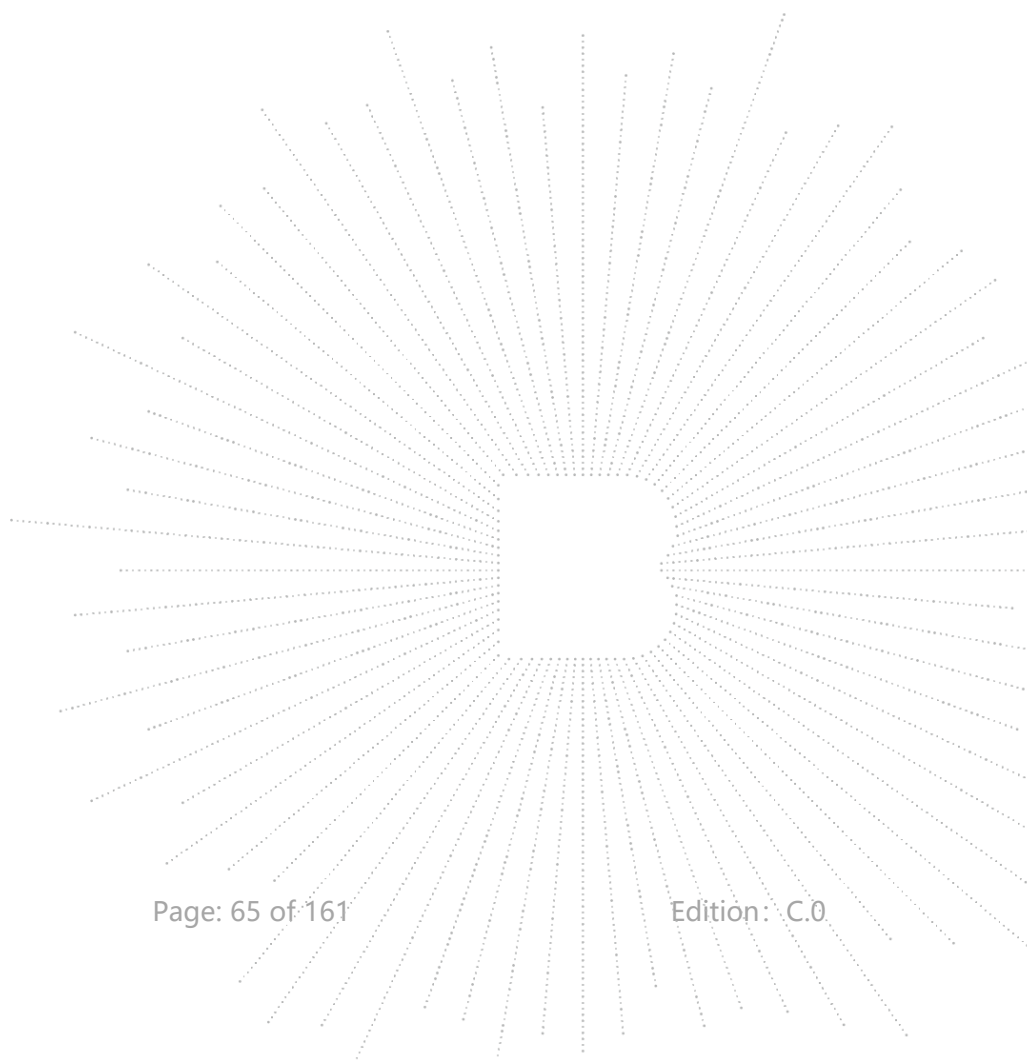
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

9.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	(5180-5240MHz)		

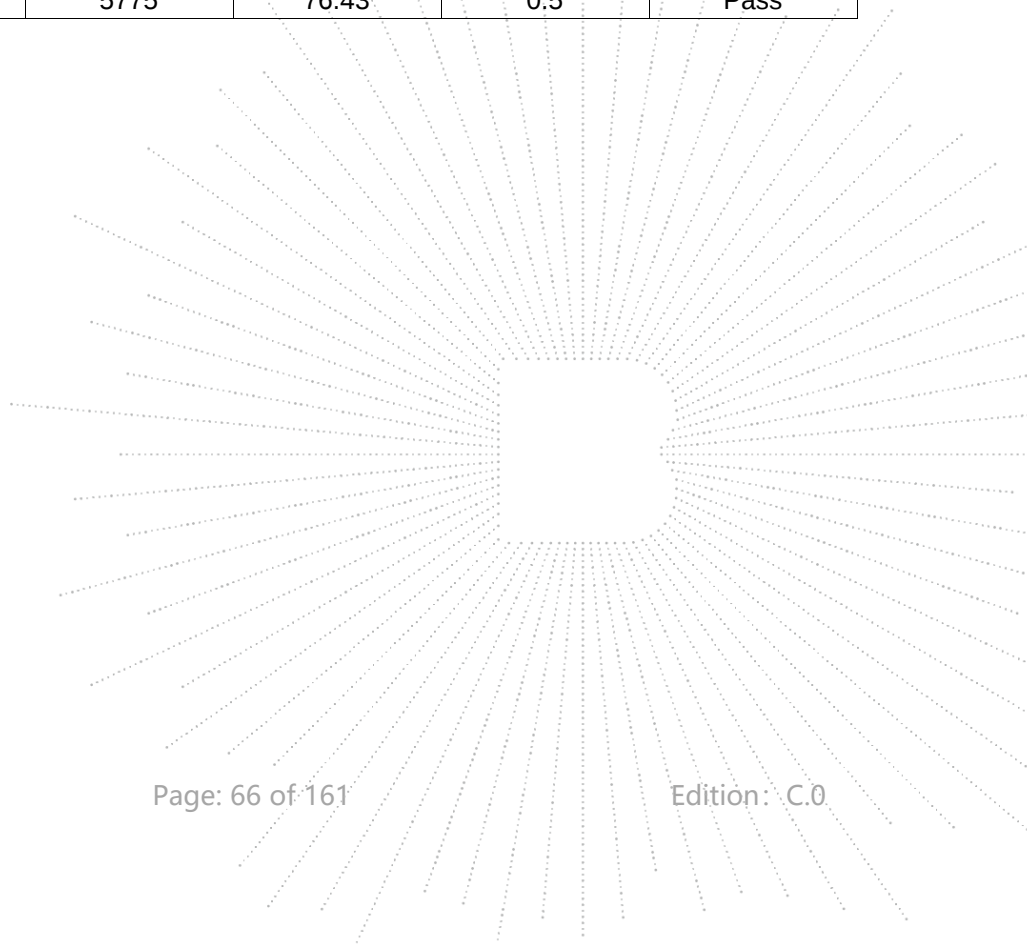
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)
NVNT	a	5180	21.222
NVNT	a	5200	23.066
NVNT	a	5240	21.286
NVNT	n20	5180	21.844
NVNT	n20	5200	21.601
NVNT	n20	5240	21.278
NVNT	n40	5190	40.874
NVNT	n40	5230	41.022
NVNT	ac20	5180	21.422
NVNT	ac20	5200	21.312
NVNT	ac20	5240	21.462
NVNT	ac40	5190	41.515
NVNT	ac40	5230	41.24
NVNT	ac80	5210	83.607
NVNT	ax20	5180	21.95
NVNT	ax20	5200	21.267
NVNT	ax20	5240	20.915
NVNT	ax40	5190	41.416
NVNT	ax40	5230	41.408
NVNT	ax80	5210	81.824

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.621
NVNT	a	5200	16.617
NVNT	a	5240	16.595
NVNT	n20	5180	17.76
NVNT	n20	5200	17.772
NVNT	n20	5240	17.786
NVNT	n40	5190	36.204
NVNT	n40	5230	36.236
NVNT	ac20	5180	17.805
NVNT	ac20	5200	17.8
NVNT	ac20	5240	17.801
NVNT	ac40	5190	36.275
NVNT	ac40	5230	36.232
NVNT	ac80	5210	75.328
NVNT	ax20	5180	19.007
NVNT	ax20	5200	18.994
NVNT	ax20	5240	18.998
NVNT	ax40	5190	37.655
NVNT	ax40	5230	37.623
NVNT	ax80	5210	76.667



Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.443	0.5	Pass
NVNT	a	5785	16.397	0.5	Pass
NVNT	a	5825	16.428	0.5	Pass
NVNT	n20	5745	17.619	0.5	Pass
NVNT	n20	5785	17.7	0.5	Pass
NVNT	n20	5825	17.746	0.5	Pass
NVNT	n40	5755	36.124	0.5	Pass
NVNT	n40	5795	35.846	0.5	Pass
NVNT	ac20	5745	17.653	0.5	Pass
NVNT	ac20	5785	17.645	0.5	Pass
NVNT	ac20	5825	17.618	0.5	Pass
NVNT	ac40	5755	35.864	0.5	Pass
NVNT	ac40	5795	36.022	0.5	Pass
NVNT	ac80	5775	75.146	0.5	Pass
NVNT	ax20	5745	18.973	0.5	Pass
NVNT	ax20	5785	19.044	0.5	Pass
NVNT	ax20	5825	19.016	0.5	Pass
NVNT	ax40	5755	37.771	0.5	Pass
NVNT	ax40	5795	37.74	0.5	Pass
NVNT	ax80	5775	76.43	0.5	Pass



Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5745	16.585
NVNT	a	5785	16.581
NVNT	a	5825	16.576
NVNT	n20	5745	17.789
NVNT	n20	5785	17.74
NVNT	n20	5825	17.741
NVNT	n40	5755	36.321
NVNT	n40	5795	36.204
NVNT	ac20	5745	17.835
NVNT	ac20	5785	17.764
NVNT	ac20	5825	17.768
NVNT	ac40	5755	36.297
NVNT	ac40	5795	36.226
NVNT	ac80	5775	75.424
NVNT	ax20	5745	19.021
NVNT	ax20	5785	18.99
NVNT	ax20	5825	19.019
NVNT	ax40	5755	37.705
NVNT	ax40	5795	37.562
NVNT	ax80	5775	76.667

