

TEST REPORT

Report No.: BCTC2609482020-4E

Applicant: Shenzhen Viofo Technology Co.,Ltd

Product Name: Car Dash Camera

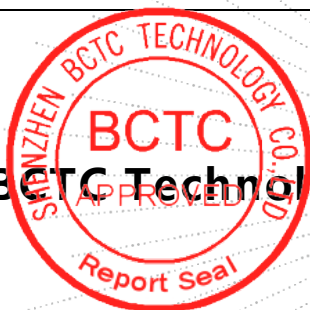
Test Model: A149 Pro

Tested Date: 2026-09-11 to 2026-09-23

Issued Date: 2026-10-09



Shenzhen BCTC Technology Co., Ltd.



FCC ID:2AMBW-A149PRO

Product Name: Car Dash Camera

Trademark: VIOFO

Model/Type Reference: A149 Pro,A149,A149 2CH,A149 Pro 2CH,A149 Plus,A149 Plus 2CH,A149 Ultra,A149 Ultra 2CH

Prepared For: Shenzhen Viofo Technology Co.,Ltd

Address: 4th Floor, Tower F, Fuanna Industrial Park, Qingning Road, Longhua District, Shenzhen, China

Manufacturer: Shenzhen Viofo Technology Co.,Ltd

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Sample Received Date: 2026-09-11

Sample Tested Date: 2026-09-11 to 2026-09-23

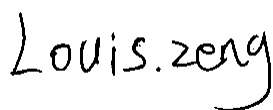
Report No.: BCTC2609482020-4E

Test Standards: 47 CFR Part 15 Subpart E (clause 15.407)
ANSI C63.10-2020 + Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Results: PASS

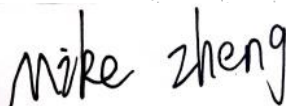
Remark: This is WIFI 5 GHz band radio test report.

Prepared by :



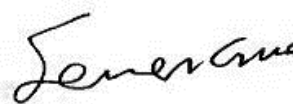
Louis Zeng

Reviewer by :



Mike Zheng

Approved by:



Sewen Guo

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Technology Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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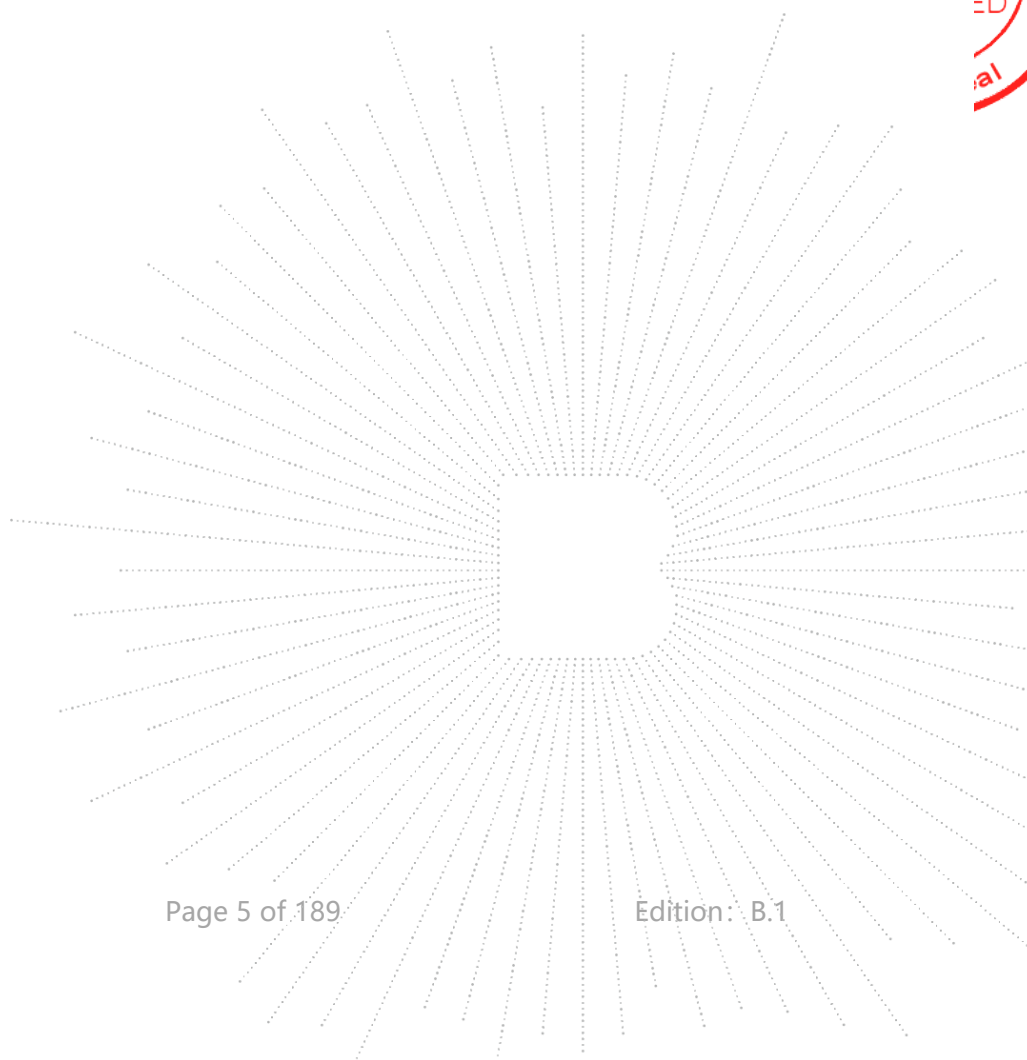
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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2609482020-4E	2026-10-09	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

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

NOTE1: N/A (Not Applicable)

NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.

NOTE3: "*" indicates that the test results are determined base on 47 CFR Part 15 Subpart E (clause 15.407). And the test results are took into account measurement uncertainty(see section 3 for measurement uncertainty information)

NOTE4:N/A¹This product is DC vehicle equipment and is not applicable to this test.

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3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2:2011/AMD2:2018. 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(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=5.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=5.0dB
5	Conducted Emission(150kHz-30MHz)	U=3.0dB
6	Power Spectral Density	U=3.46dB
7	Peak Power	U=0.31dB
8	Occupied Bandwidth/Frequency Range	U=3.46%
9	Conducted output power uncertainty	U=0.55dB
10	Frequency Error	U= 53.50 Hz
11	Frequency Drift	U=0.64 KHz
12	Temperature	U= 0.59 °C
13	Humidity	U= 5.3 %

4. Product Information And Test Setup

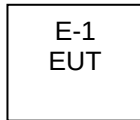
4.1 Product Information

Model/Type reference:	A149 Pro,A149,A149 2CH,A149 Pro 2CH,A149 Plus,A149 Plus 2CH,A149 Ultra,A149 Ultra 2CH	
Model differences:	The following models of units we produce are identical in electrical, mechanical and physical structure; The difference is only in the model name, we finally have A149 Pro as test model.	
Device type:	Client	
TPC Function:	☐ Applicable	☒ Not Applicable
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 802.11 a/n(HT20)/ac(VHT)20/ax(VHT)20; 5190-5230MHz for 802.11 n(HT40)/ac(VHT)40/ax(VHT)40; 5210MHz for 802.11 ac(VHT)80/ax(VHT)80; 5745-5825MHz for 802.11a/n(HT20)/ac(VHT)20/ax(VHT)20; 5755-5795MHz for 802.11n(HT40)/ac(VHT)40/ax(VHT)40; 5775MHz for 802.11 ac(VHT)80/ax(VHT)80.	
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	
Antenna installation:	Internal antenna	
Antenna Gain:	5.1GHz: 2.55dBi 5.8GHz: 1.06dBi	
	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 laboratory assumes no responsibility for its authenticity. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information. The laboratory assumes no responsibility for its authenticity.	
Ratings:	Car charger: Input: DC 12V-24V Output1: 5V/2.4A Output2: 5V/2.4A Car Dash Camera: DC 5V/2.4A	

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	A149 Pro	N/A	EUT
N/A	N/A	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
N/A	N/A	N/A	N/A	N/A

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

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		

(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5755	159	5795
80MHz	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 CH149/ CH157/ CH 165 802.11a / n/ ac/ax 20 CH36/ CH40/ CH 48
Mode 2	802.11n/ ac/ax 40 CH 151 / CH 159 802.11n/ ac/ax 40 CH38/ CH 46
Mode 3	802.11 ac/ax 80 CH 155 802.11 ac/ax 80 CH 42
Mode 4	Transmitting (Radiated emission)

Note:

1. The measurements are performed at the highest, middle, lowest available channels.
2. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
3. The 802.11ax mode is investigated among different tones(26/52/106/242-tone RU channel), full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

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

RF Function	Mode Or Modulation type	Power Class	Software For Testing
WIFI 5.1G	802.11a	13	CRT
	802.11n/ac/ax20	12	
	802.11n/ac/ax40	11	
	802.11ac/ax80	10	

RF Function	Mode Or Modulation type	Power Class	Software For Testing
WIFI 5.8G	802.11a	13	CRT
	802.11n/ac/ax20	12	
	802.11n/ac/ax40	11	
	802.11ac/ax80	10	

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 Technology Co., Ltd.

Address: Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang, Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong, China.

The site and apparatus are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-1:2019 other equivalent standards.

FCC Test Firm Registration Number: 754702

ANAB certificate registration number is: CN3479

5.2 Test Instrument Used

Radiated disturbance 2#					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Shielded room	ChengYu	9*6*6	/	2023.09.25	2026.09.24
Loop Antenna	Schwarzbeck	FMZB1519B	00014	2026.01.05	2027.01.04
Broadband antenna	SCHWHRZBEC K	VULB9168	01620	2026.08.22	2027.08.21
Horn antenna(1 GHz -18GHz)	SCHWARZBECK	BBHA 9120 D	2792	2026.08.22	2027.08.21
Horn antenna (18 GHz -40GHz)	SCHWARZBECK	BBHA9170	00822	2025.12.29	2026.12.28
Receiver	R&S	ESR	1316	2026.08.24	2027.08.23
Spectrum Analyzer	R&S	FSV40	101328	2026.01.22	2027.01.21
Amplifier	SCHWHRZBEC K	BBV9744	568	2026.08.24	2027.08.23
Amplifier	EMC INSTRUMENTS CORPORATION	EMC0518A45SE E	EMT-SZ2 233	2026.08.24	2027.08.23
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	2026.05.09	2027.05.08
RF cable 3# (9kHz-6GHz)	Yunyi	10M	/	2026.08.24	2027.08.23
RF cable 9# (9kHz-1GHz)	Yunyi	2M	/	2025.10.28	2026.10.27
RF cable 5# (1GHz -18GHz)	SKET	9M	18038626	2026.08.24	2027.08.23
RF cable 6# (1GHz -18GHz)	SKET	5M	#10	2026.08.24	2027.08.23
RF cable 10# (18GHz-40GHz)	/	2M	2M	2026.05.09	2027.05.08
RF cable 11# (18GHz-40GHz)	/	2.5M	2.5M	2026.05.09	2027.05.08

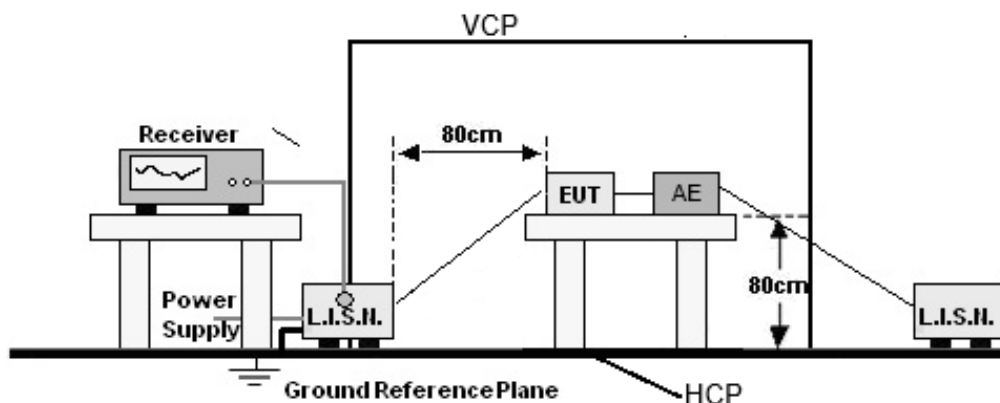
Temperature & Humidity	Wetest	HTC-1	/	2026.08.25	2027.08.24
Software	EZ-EMC	Ver.FA-03A2	/	/	/

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Spectrum Analyzer	Keysight	N9020A	MY51287403	2026.08.24	2027.08.23
Signal Generator	Keysight	N5182A	MY50144088	2026.08.24	2027.08.23
Power Sensor	Keysight	U2001	MY51250006	2025.10.28	2026.10.27
Temperature & Humidity	Wetest	HTC-1	/	2026.08.25	2027.08.24
Communication test set	R&S	CMW500	157483	2026.08.24	2027.08.23
Radio frequency control box	MWRFTest	MW100-RFCB	\	\	\
Software	MWRFTest	MTS 8310	V 3.0.0.0	\	\
D.C. Power Supply	Elektro-Automatik GmbH & Co.KG	D-41747 Viersen	6230316	2026.08.24	2027.08.23
Temperature and humidity test chamber	Auchno	OJN-9606-408 L	19120183	2026.07.07	2027.07.06

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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 Stability 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.

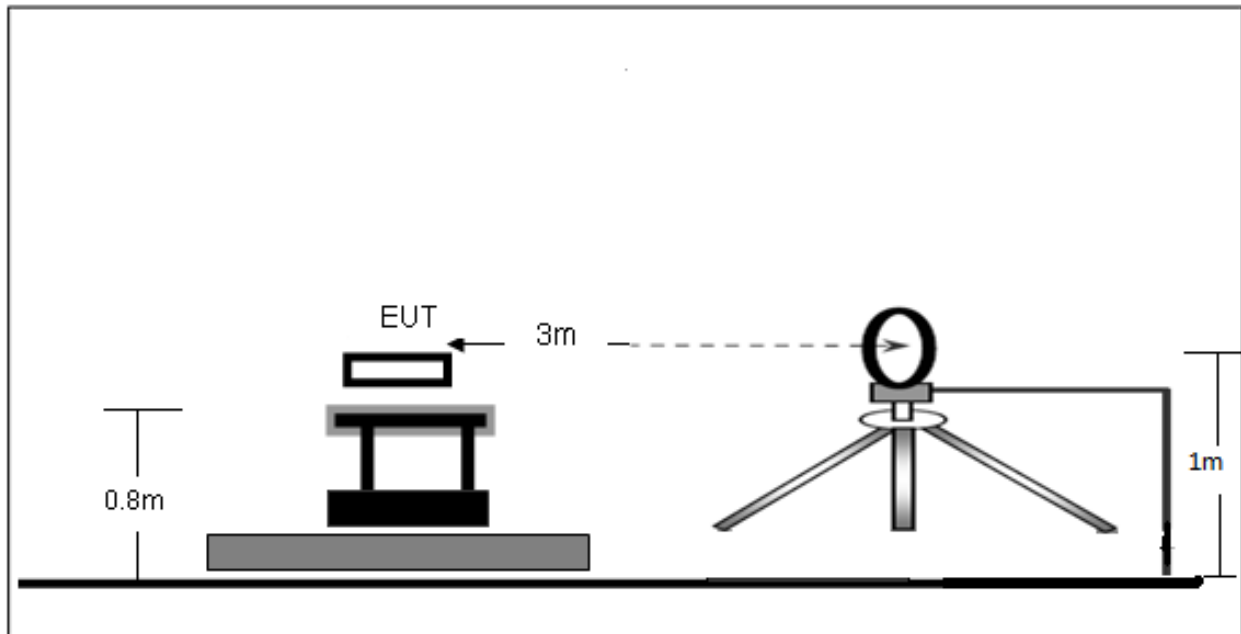
6.5 Test Result

This product is DC vehicle equipment and is not applicable to this test.

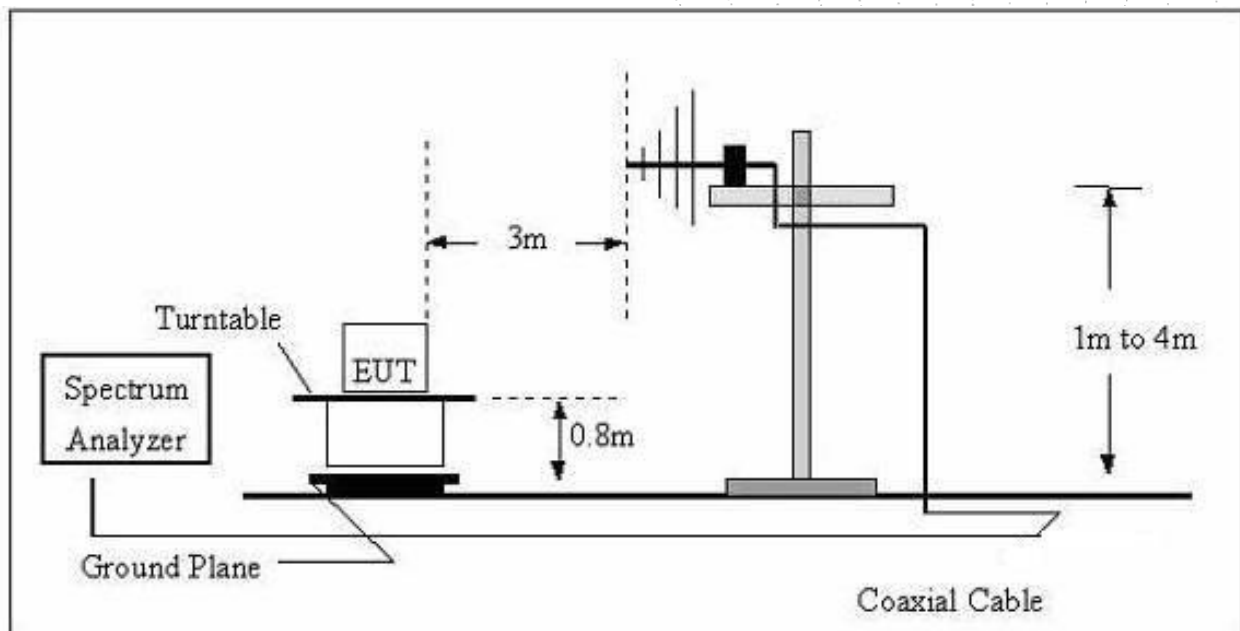
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

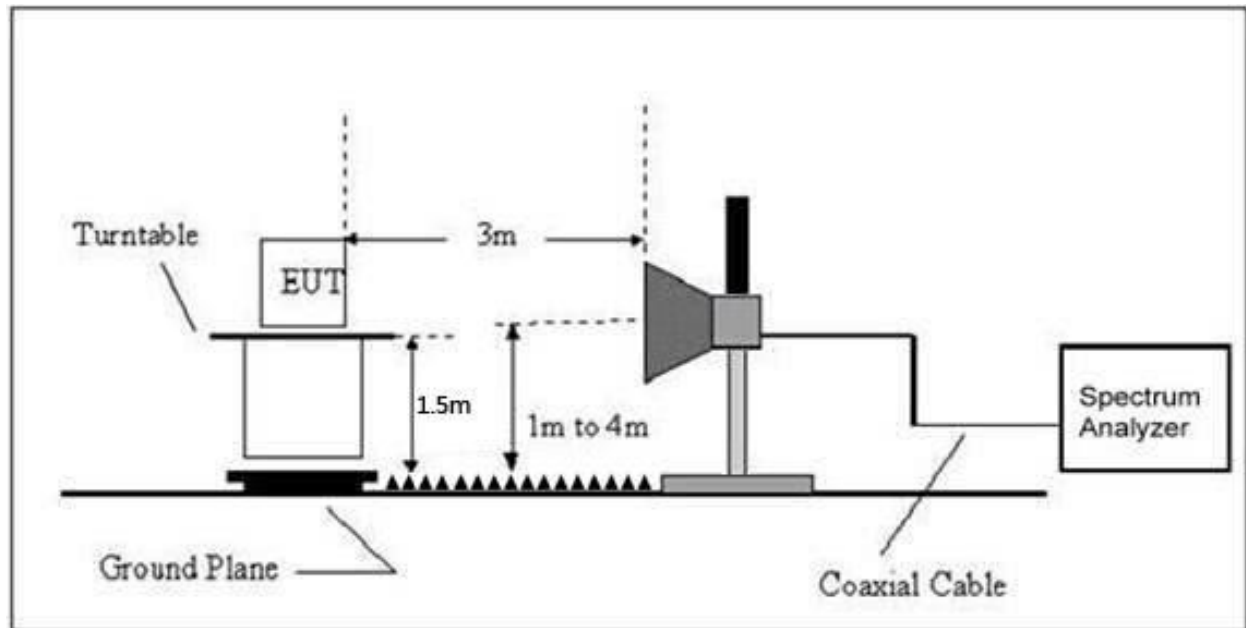
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	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:	26.8°C	Relative Humidity:	48%RH
Pressure:	101 kPa	Test Voltage :	DC 12V
Test Mode:	Mode 4	Polarization:	--

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

Note:

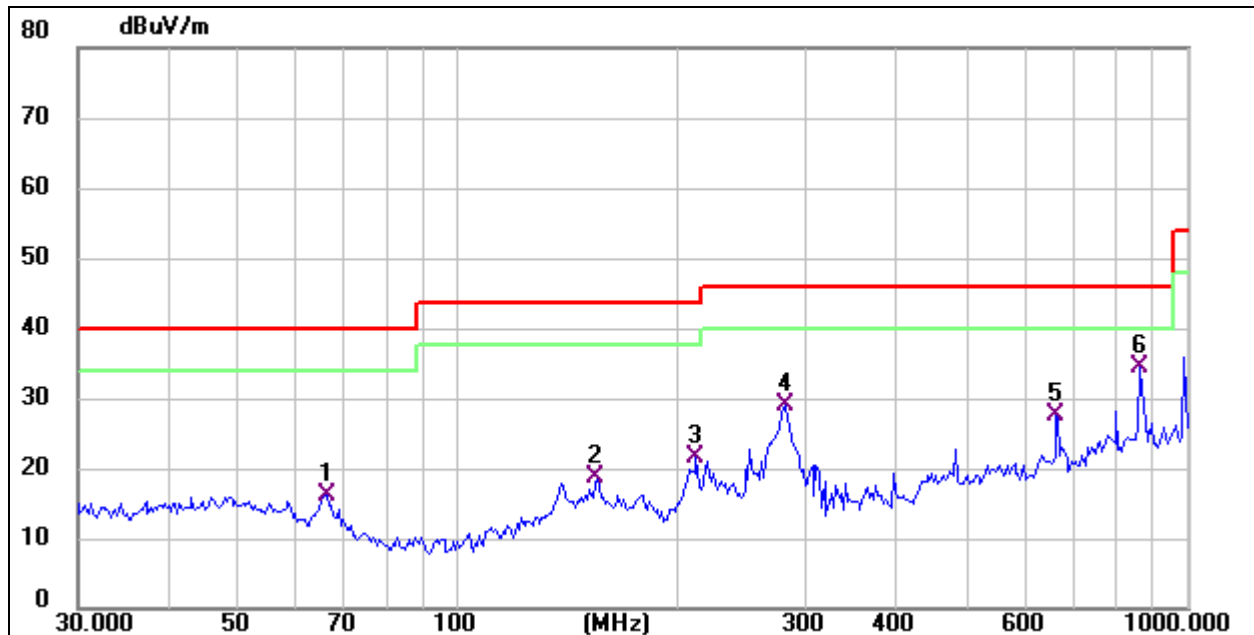
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26.8 °C	Relative Humidity:	48%RH
Pressure:	101KPa	Phase :	Horizontal
Test Voltage :	DC 12V	Test Mode:	Mode 4



Remark:

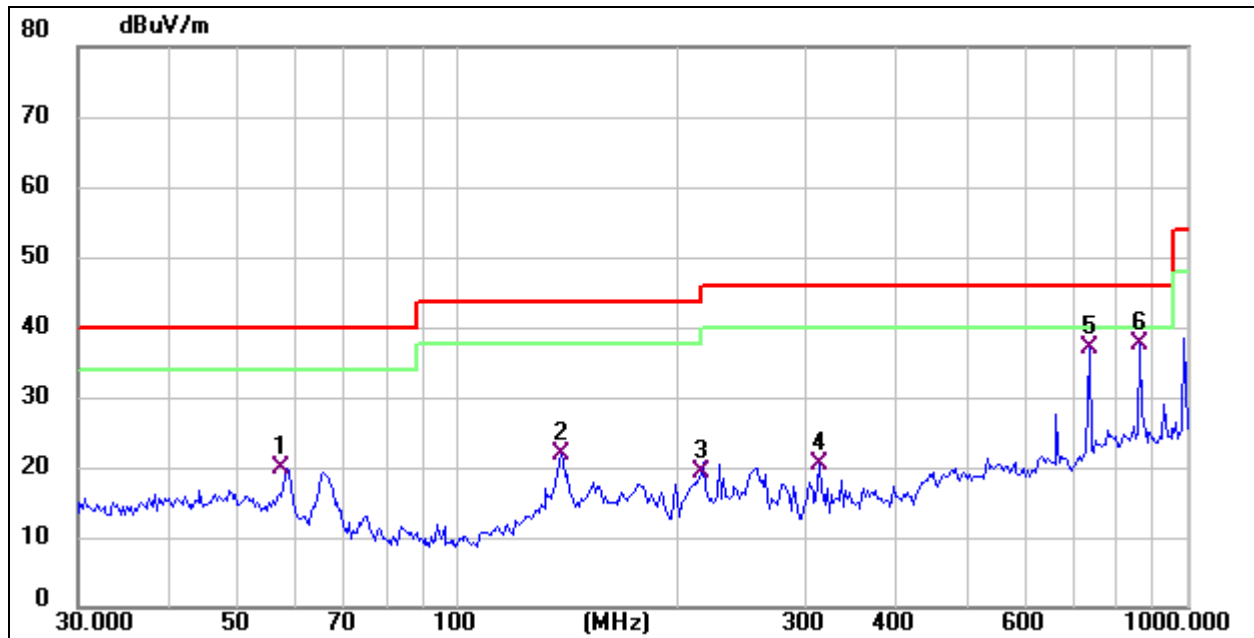
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Margin = (Reading + Factor) – Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	65.8031	29.23	-13.06	16.17	40.00	-23.83	QP
2	154.8204	28.41	-9.79	18.62	43.50	-24.88	QP
3	210.7860	34.90	-13.28	21.62	43.50	-21.88	QP
4	281.0075	40.32	-11.38	28.94	46.00	-17.06	QP
5	661.1505	30.29	-2.65	27.64	46.00	-18.36	QP
6 *	863.0562	34.70	-0.25	34.45	46.00	-11.55	QP

* Indicates the worst data.

Temperature:	26.8 °C	Relative Humidity:	48%RH
Pressure:	101KPa	Phase :	Vertical
Test Voltage :	DC 12V	Test Mode:	Mode 4



Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Margin = (Reading + Factor) – Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	57.5939	31.24	-11.51	19.73	40.00	-20.27	QP
2	138.3873	32.20	-10.42	21.78	43.50	-21.72	QP
3	215.2678	32.11	-12.94	19.17	43.50	-24.33	QP
4	312.1794	30.96	-10.62	20.34	46.00	-25.66	QP
5	734.4913	38.61	-1.74	36.87	46.00	-9.13	QP
6 *	863.0562	37.69	-0.25	37.44	46.00	-8.56	QP

* Indicates the worst data.

Test Mode:	TX(5.1G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.12	72.39	-10.51	61.88	68.20	-6.32	PK
Vertical	4434.12	59.59	-10.51	49.08	54.00	-4.92	AV
Vertical	10360.16	61.07	-0.72	60.35	68.20	-7.85	PK
Vertical	10360.16	49.87	-0.72	49.15	54.00	-4.85	AV
Vertical	15540.18	62.16	2.59	64.75	74.00	-9.25	PK
Vertical	15540.18	49.40	2.59	51.99	54.00	-2.01	AV
Horizontal	4434.03	74.52	-10.51	64.01	68.20	-4.19	PK
Horizontal	4434.03	59.21	-10.51	48.70	54.00	-5.30	AV
Horizontal	10360.17	64.36	-0.72	63.64	68.20	-4.56	PK
Horizontal	10360.17	49.10	-0.72	48.38	54.00	-5.62	AV
Horizontal	15540.15	64.32	2.59	66.91	74.00	-7.09	PK
Horizontal	15540.15	49.41	2.59	52.00	54.00	-2.00	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.04	72.48	-10.20	62.28	74.00	-11.72	PK
Vertical	4592.04	59.54	-10.20	49.34	54.00	-4.66	AV
Vertical	10400.10	63.14	-0.67	62.47	68.20	-5.73	PK
Vertical	10400.10	49.55	-0.67	48.88	54.00	-5.12	AV
Vertical	15600.12	64.25	2.67	66.92	74.00	-7.08	PK
Vertical	15600.12	49.08	2.67	51.75	54.00	-2.25	AV
Horizontal	4592.17	71.03	-10.20	60.83	74.00	-13.17	PK
Horizontal	4592.17	59.35	-10.20	49.15	54.00	-4.85	AV
Horizontal	10400.06	60.17	-0.67	59.50	68.20	-8.70	PK
Horizontal	10400.06	49.62	-0.67	48.95	54.00	-5.05	AV
Horizontal	15600.03	60.84	2.67	63.51	74.00	-10.49	PK
Horizontal	15600.03	49.70	2.67	52.37	54.00	-1.63	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.09	74.13	-9.45	64.68	74.00	-9.32	PK
Vertical	4739.09	59.23	-9.45	49.78	54.00	-4.22	AV
Vertical	10480.02	62.22	-0.64	61.58	68.20	-6.62	PK
Vertical	10480.02	49.19	-0.64	48.55	54.00	-5.45	AV
Vertical	15720.09	63.93	2.33	66.26	74.00	-7.74	PK
Vertical	15720.09	49.22	2.33	51.55	54.00	-2.45	AV
Horizontal	4739.17	70.24	-9.45	60.79	74.00	-13.21	PK
Horizontal	4739.17	59.45	-9.45	50.00	54.00	-4.00	AV
Horizontal	10480.14	60.98	-0.64	60.34	68.20	-7.86	PK
Horizontal	10480.14	49.69	-0.64	49.05	54.00	-4.95	AV
Horizontal	15720.08	61.68	2.33	64.01	74.00	-9.99	PK
Horizontal	15720.08	49.89	2.33	52.22	54.00	-1.78	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.02	74.60	-10.51	64.09	68.20	-4.11	PK
Vertical	4434.02	59.04	-10.51	48.53	54.00	-5.47	AV
Vertical	10360.16	60.90	-0.72	60.18	68.20	-8.02	PK
Vertical	10360.16	49.81	-0.72	49.09	54.00	-4.91	AV
Vertical	15540.14	61.17	2.59	63.76	74.00	-10.24	PK
Vertical	15540.14	49.78	2.59	52.37	54.00	-1.63	AV
Horizontal	4434.02	71.23	-10.51	60.72	68.20	-7.48	PK
Horizontal	4434.02	59.54	-10.51	49.03	54.00	-4.97	AV
Horizontal	10360.05	63.35	-0.72	62.63	68.20	-5.57	PK
Horizontal	10360.05	49.43	-0.72	48.71	54.00	-5.29	AV
Horizontal	15540.04	61.55	2.59	64.14	74.00	-9.86	PK
Horizontal	15540.04	49.08	2.59	51.67	54.00	-2.33	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.08	71.91	-10.20	61.71	74.00	-12.29	PK
Vertical	4592.08	59.05	-10.20	48.85	54.00	-5.15	AV
Vertical	10400.03	64.24	-0.67	63.57	68.20	-4.63	PK
Vertical	10400.03	49.62	-0.67	48.95	54.00	-5.05	AV
Vertical	15600.18	62.20	2.67	64.87	74.00	-9.13	PK
Vertical	15600.18	49.74	2.67	52.41	54.00	-1.59	AV
Horizontal	4592.19	72.83	-10.20	62.63	74.00	-11.37	PK
Horizontal	4592.19	59.87	-10.20	49.67	54.00	-4.33	AV
Horizontal	10400.14	64.65	-0.67	63.98	68.20	-4.22	PK
Horizontal	10400.14	49.80	-0.67	49.13	54.00	-4.87	AV
Horizontal	15600.02	64.14	2.67	66.81	74.00	-7.19	PK
Horizontal	15600.02	49.84	2.67	52.51	54.00	-1.49	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.07	70.11	-9.45	60.66	74.00	-13.34	PK
Vertical	4739.07	59.08	-9.45	49.63	54.00	-4.37	AV
Vertical	10480.20	64.01	-0.64	63.37	68.20	-4.83	PK
Vertical	10480.20	49.56	-0.64	48.92	54.00	-5.08	AV
Vertical	15720.03	61.24	2.33	63.57	74.00	-10.43	PK
Vertical	15720.03	49.27	2.33	51.60	54.00	-2.40	AV
Horizontal	4739.18	70.25	-9.45	60.80	74.00	-13.20	PK
Horizontal	4739.18	59.74	-9.45	50.29	54.00	-3.71	AV
Horizontal	10480.10	64.42	-0.64	63.78	68.20	-4.42	PK
Horizontal	10480.10	49.54	-0.64	48.90	54.00	-5.10	AV
Horizontal	15720.01	64.63	2.33	66.96	74.00	-7.04	PK
Horizontal	15720.01	49.84	2.33	52.17	54.00	-1.83	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).

Correct Factor = Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.13	71.15	-10.52	60.63	68.20	-7.57	PK
Vertical	4434.13	59.66	-10.52	49.14	54.00	-4.86	AV
Vertical	10380.07	63.67	-0.70	62.97	68.20	-5.23	PK
Vertical	10380.07	49.64	-0.70	48.94	54.00	-5.06	AV
Vertical	15570.18	61.80	2.39	64.19	74.00	-9.81	PK
Vertical	15570.18	49.76	2.39	52.15	54.00	-1.85	AV
Horizontal	4434.18	72.23	-10.52	61.71	74.00	-12.29	PK
Horizontal	4434.18	59.25	-10.52	48.73	54.00	-5.27	AV
Horizontal	10380.17	62.91	-0.70	62.21	68.20	-5.99	PK
Horizontal	10380.17	49.99	-0.70	49.29	54.00	-4.71	AV
Horizontal	15570.08	60.64	2.39	63.03	74.00	-10.97	PK
Horizontal	15570.08	49.26	2.39	51.65	54.00	-2.35	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.15	74.93	-9.45	65.48	68.20	-2.72	PK
Vertical	4739.15	59.98	-9.45	50.53	54.00	-3.47	AV
Vertical	10460.16	63.87	-0.65	63.22	68.20	-4.98	PK
Vertical	10460.16	49.70	-0.65	49.05	54.00	-4.95	AV
Vertical	15690.14	64.15	2.33	66.48	74.00	-7.52	PK
Vertical	15690.14	49.76	2.33	52.09	54.00	-1.91	AV
Horizontal	4739.07	74.98	-9.45	65.53	68.20	-2.67	PK
Horizontal	4739.07	59.81	-9.45	50.36	54.00	-3.64	AV
Horizontal	10460.18	61.88	-0.65	61.23	68.20	-6.97	PK
Horizontal	10460.18	49.45	-0.65	48.80	54.00	-5.20	AV
Horizontal	15690.12	61.56	2.33	63.89	74.00	-10.11	PK
Horizontal	15690.12	49.53	2.33	51.86	54.00	-2.14	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).
Correct Factor =Antenna Factor + Cable Loss - Preamp Factor
Over = Reading Level + Correct Factor - Limits

BCTC CO., LTD

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	4434.04	73.89	-10.51	63.38	68.20	-4.82	Pk
Vertical	4434.04	59.94	-10.51	49.43	54.00	-4.57	AV
Vertical	10360.15	64.15	-0.72	63.43	68.20	-4.77	Pk
Vertical	10360.15	49.77	-0.72	49.05	54.00	-4.95	AV
Vertical	15540.01	64.99	2.59	67.58	74.00	-6.42	Pk
Vertical	15540.01	49.34	2.59	51.93	54.00	-2.07	AV
Horizontal	4434.14	71.41	-10.51	60.90	68.20	-7.30	Pk
Horizontal	4434.14	59.27	-10.51	48.76	54.00	-5.24	AV
Horizontal	10360.00	60.59	-0.72	59.87	68.20	-8.33	Pk
Horizontal	10360.00	49.10	-0.72	48.38	54.00	-5.62	AV
Horizontal	15540.09	62.73	2.59	65.32	74.00	-8.68	Pk
Horizontal	15540.09	49.30	2.59	51.89	54.00	-2.11	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.03	72.36	-10.20	62.16	74.00	-11.84	Pk
Vertical	4592.03	59.77	-10.20	49.57	54.00	-4.43	AV
Vertical	10400.10	60.15	-0.67	59.48	68.20	-8.72	Pk
Vertical	10400.10	49.36	-0.67	48.69	54.00	-5.31	AV
Vertical	15600.12	62.60	2.67	65.27	74.00	-8.73	Pk
Vertical	15600.12	49.76	2.67	52.43	54.00	-1.57	AV
Horizontal	4592.08	73.72	-10.20	63.52	74.00	-10.48	Pk
Horizontal	4592.08	59.77	-10.20	49.57	54.00	-4.43	AV
Horizontal	10400.05	60.91	-0.67	60.24	68.20	-7.96	Pk
Horizontal	10400.05	49.96	-0.67	49.29	54.00	-4.71	AV
Horizontal	15600.01	64.55	2.67	67.22	74.00	-6.78	Pk
Horizontal	15600.01	49.09	2.67	51.76	54.00	-2.24	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.18	72.15	-9.45	62.70	74.00	-11.30	Pk
Vertical	4739.18	59.34	-9.45	49.89	54.00	-4.11	AV
Vertical	10480.04	64.96	-0.64	64.32	68.20	-3.88	Pk
Vertical	10480.04	49.40	-0.64	48.76	54.00	-5.24	AV
Vertical	15720.04	62.65	2.33	64.98	74.00	-9.02	Pk
Vertical	15720.04	49.72	2.33	52.05	54.00	-1.95	AV
Horizontal	4739.02	72.98	-9.45	63.53	74.00	-10.47	Pk
Horizontal	4739.02	59.01	-9.45	49.56	54.00	-4.44	AV
Horizontal	10480.05	64.97	-0.64	64.33	68.20	-3.87	Pk
Horizontal	10480.05	49.06	-0.64	48.42	54.00	-5.58	AV
Horizontal	15720.02	62.45	2.33	64.78	74.00	-9.22	Pk
Horizontal	15720.02	49.69	2.33	52.02	54.00	-1.98	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).

Correct Factor = Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

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	4434.14	73.27	-10.52	62.75	68.20	-5.45	Pk
Vertical	4434.14	59.75	-10.52	49.23	54.00	-4.77	AV
Vertical	10380.05	60.98	-0.70	60.28	68.20	-7.92	Pk
Vertical	10380.05	49.14	-0.70	48.44	54.00	-5.56	AV
Vertical	15570.09	62.80	2.39	65.19	74.00	-8.81	Pk
Vertical	15570.09	49.77	2.39	52.16	54.00	-1.84	AV
Horizontal	4434.06	72.40	-10.52	61.88	74.00	-12.12	Pk
Horizontal	4434.06	59.38	-10.52	48.86	54.00	-5.14	AV
Horizontal	10380.08	64.15	-0.70	63.45	68.20	-4.75	Pk
Horizontal	10380.08	49.34	-0.70	48.64	54.00	-5.36	AV
Horizontal	15570.02	62.19	2.39	64.58	74.00	-9.42	Pk
Horizontal	15570.02	49.43	2.39	51.82	54.00	-2.18	AV
middle Channel (5230 MHz)-Above 1G							
Vertical	4739.16	73.94	-9.45	64.49	68.20	-3.71	Pk
Vertical	4739.16	59.17	-9.45	49.72	54.00	-4.28	AV
Vertical	10460.00	60.35	-0.65	59.70	68.20	-8.50	Pk
Vertical	10460.00	49.81	-0.65	49.16	54.00	-4.84	AV
Vertical	15690.19	60.86	2.33	63.19	74.00	-10.81	Pk
Vertical	15690.19	49.85	2.33	52.18	54.00	-1.82	AV
Horizontal	4739.04	74.21	-9.45	64.76	68.20	-3.44	Pk
Horizontal	4739.04	59.30	-9.45	49.85	54.00	-4.15	AV
Horizontal	10460.12	62.85	-0.65	62.20	68.20	-6.00	Pk
Horizontal	10460.12	49.71	-0.65	49.06	54.00	-4.94	AV
Horizontal	15690.02	60.46	2.33	62.79	74.00	-11.21	Pk
Horizontal	15690.02	49.77	2.33	52.10	54.00	-1.90	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

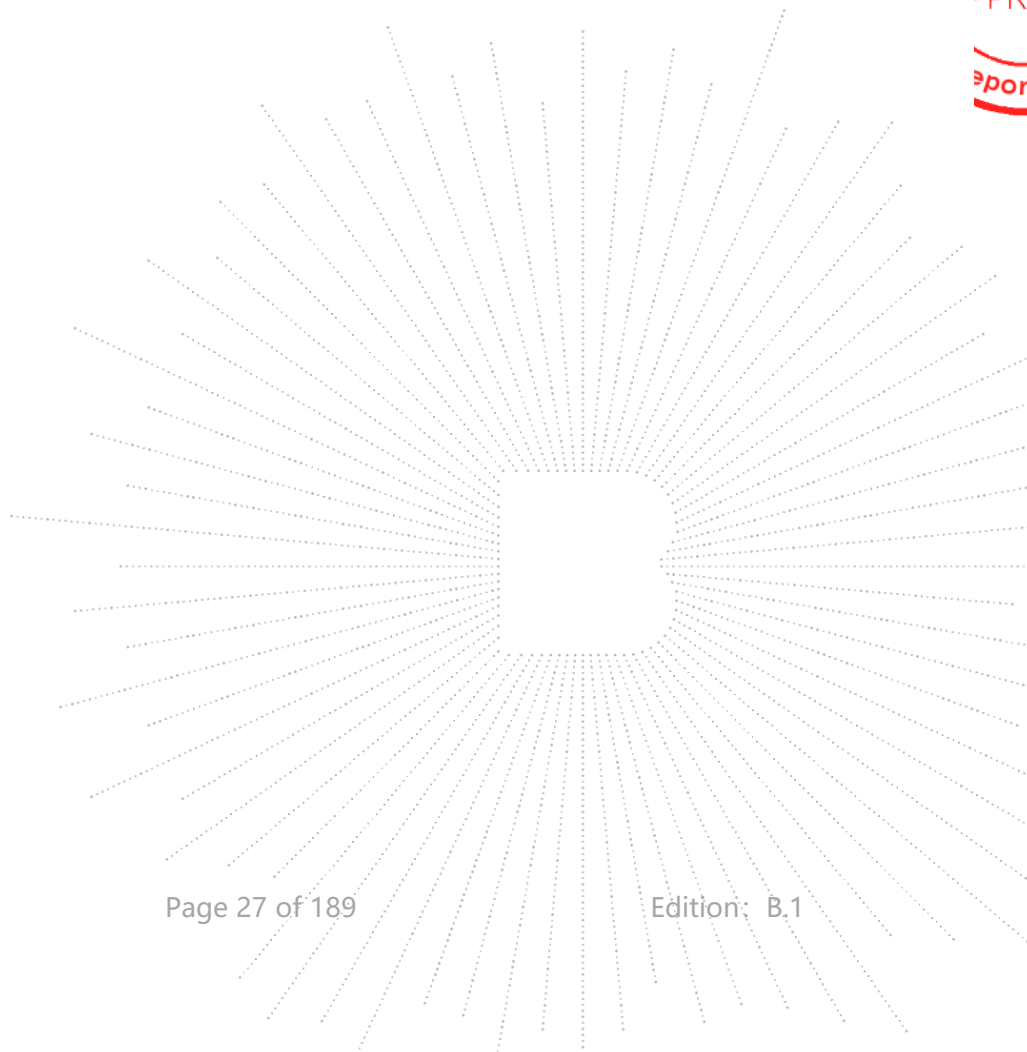
Over = Reading Level + Correct Factor – Limits

Test Mode:	TX(5.1G) - 802.11ac-HT80
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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)	
(5775 MHz)-Above 1G							
V	4434.18	70.90	-10.51	60.39	68.20	-7.81	PK
V	4434.18	59.17	-10.51	48.66	54.00	-5.34	AV
V	10420.11	63.31	-0.66	62.65	68.20	-5.55	PK
V	10420.11	49.39	-0.66	48.73	54.00	-5.27	AV
V	15630.02	61.73	2.55	64.28	74.00	-9.72	PK
V	15630.02	49.35	2.55	51.90	54.00	-2.10	AV
H	4434.03	74.50	-10.51	63.99	68.20	-4.21	PK
H	4434.03	59.71	-10.51	49.20	54.00	-4.80	AV
H	10420.08	63.08	-0.66	62.42	68.20	-5.78	PK
H	10420.08	49.72	-0.66	49.06	54.00	-4.94	AV
H	15630.14	61.73	2.55	64.28	74.00	-9.72	PK
H	15630.14	49.61	2.55	52.16	54.00	-1.84	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).
Correct Factor =Antenna Factor + Cable Loss - Preamp Factor
Over = Reading Level + Correct Factor - Limits

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Test Mode:	TX(5.1G) - 802.11ax-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	4434.11	71.19	-10.51	60.68	68.20	-7.52	Pk
Vertical	4434.11	59.19	-10.51	48.68	54.00	-5.32	AV
Vertical	10360.17	61.15	-0.72	60.43	68.20	-7.77	Pk
Vertical	10360.17	49.67	-0.72	48.95	54.00	-5.05	AV
Vertical	15540.11	63.31	2.59	65.90	74.00	-8.10	Pk
Vertical	15540.11	49.83	2.59	52.42	54.00	-1.58	AV
Horizontal	4434.10	72.92	-10.51	62.41	68.20	-5.79	Pk
Horizontal	4434.10	59.69	-10.51	49.18	54.00	-4.82	AV
Horizontal	10360.11	60.94	-0.72	60.22	68.20	-7.98	Pk
Horizontal	10360.11	49.22	-0.72	48.50	54.00	-5.50	AV
Horizontal	15540.08	61.51	2.59	64.10	74.00	-9.90	Pk
Horizontal	15540.08	49.09	2.59	51.68	54.00	-2.32	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.13	70.29	-10.20	60.09	74.00	-13.91	Pk
Vertical	4592.13	59.88	-10.20	49.68	54.00	-4.32	AV
Vertical	10400.11	60.20	-0.67	59.53	68.20	-8.67	Pk
Vertical	10400.11	49.41	-0.67	48.74	54.00	-5.26	AV
Vertical	15600.04	60.07	2.67	62.74	74.00	-11.26	Pk
Vertical	15600.04	49.69	2.67	52.36	54.00	-1.64	AV
Horizontal	4592.13	73.56	-10.20	63.36	74.00	-10.64	Pk
Horizontal	4592.13	59.32	-10.20	49.12	54.00	-4.88	AV
Horizontal	10400.05	60.66	-0.67	59.99	68.20	-8.21	Pk
Horizontal	10400.05	49.67	-0.67	49.00	54.00	-5.00	AV
Horizontal	15600.05	64.39	2.67	67.06	74.00	-6.94	Pk
Horizontal	15600.05	49.50	2.67	52.17	54.00	-1.83	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.13	72.65	-9.45	63.20	74.00	-10.80	Pk
Vertical	4739.13	59.02	-9.45	49.57	54.00	-4.43	AV
Vertical	10480.09	63.10	-0.64	62.46	68.20	-5.74	Pk
Vertical	10480.09	49.05	-0.64	48.41	54.00	-5.59	AV
Vertical	15720.17	62.67	2.33	65.00	74.00	-9.00	Pk
Vertical	15720.17	49.82	2.33	52.15	54.00	-1.85	AV
Horizontal	4739.15	70.08	-9.45	60.63	74.00	-13.37	Pk
Horizontal	4739.15	59.13	-9.45	49.68	54.00	-4.32	AV
Horizontal	10480.07	64.46	-0.64	63.82	68.20	-4.38	Pk
Horizontal	10480.07	49.79	-0.64	49.15	54.00	-4.85	AV
Horizontal	15720.06	61.86	2.33	64.19	74.00	-9.81	Pk
Horizontal	15720.06	49.09	2.33	51.42	54.00	-2.58	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

Test Mode:	TX(5.1G) - 802.11ax-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	4434.16	72.60	-10.52	62.08	68.20	-6.12	Pk
Vertical	4434.16	59.29	-10.52	48.77	54.00	-5.23	AV
Vertical	10380.11	64.46	-0.70	63.76	68.20	-4.44	Pk
Vertical	10380.11	49.84	-0.70	49.14	54.00	-4.86	AV
Vertical	15570.16	60.39	2.39	62.78	74.00	-11.22	Pk
Vertical	15570.16	49.08	2.39	51.47	54.00	-2.53	AV
Horizontal	4434.13	71.44	-10.52	60.92	74.00	-13.08	Pk
Horizontal	4434.13	59.42	-10.52	48.90	54.00	-5.10	AV
Horizontal	10380.12	64.59	-0.70	63.89	68.20	-4.31	Pk
Horizontal	10380.12	49.06	-0.70	48.36	54.00	-5.64	AV
Horizontal	15570.12	62.81	2.39	65.20	74.00	-8.80	Pk
Horizontal	15570.12	49.37	2.39	51.76	54.00	-2.24	AV
middle Channel (5230 MHz)-Above 1G							
Vertical	4739.02	72.48	-9.45	63.03	68.20	-5.17	Pk
Vertical	4739.02	59.60	-9.45	50.15	54.00	-3.85	AV
Vertical	10460.08	63.25	-0.65	62.60	68.20	-5.60	Pk
Vertical	10460.08	49.83	-0.65	49.18	54.00	-4.82	AV
Vertical	15690.16	60.58	2.33	62.91	74.00	-11.09	Pk
Vertical	15690.16	49.75	2.33	52.08	54.00	-1.92	AV
Horizontal	4739.11	74.28	-9.45	64.83	68.20	-3.37	Pk
Horizontal	4739.11	59.22	-9.45	49.77	54.00	-4.23	AV
Horizontal	10460.05	64.82	-0.65	64.17	68.20	-4.03	Pk
Horizontal	10460.05	49.36	-0.65	48.71	54.00	-5.29	AV
Horizontal	15690.03	63.94	2.33	66.27	74.00	-7.73	Pk
Horizontal	15690.03	49.23	2.33	51.56	54.00	-2.44	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor – Limits

Test Mode:	TX(5.1G) - 802.11ax-HT80
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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)	
(5775 MHz)-Above 1G							
V	4434.13	72.28	-10.51	61.77	68.20	-6.43	PK
V	4434.13	59.36	-10.51	48.85	54.00	-5.15	AV
V	10420.12	64.57	-0.66	63.91	68.20	-4.29	PK
V	10420.12	49.30	-0.66	48.64	54.00	-5.36	AV
V	15630.19	64.09	2.55	66.64	74.00	-7.36	PK
V	15630.19	49.23	2.55	51.78	54.00	-2.22	AV
H	4434.02	73.44	-10.51	62.93	68.20	-5.27	PK
H	4434.02	59.47	-10.51	48.96	54.00	-5.04	AV
H	10420.03	62.74	-0.66	62.08	68.20	-6.12	PK
H	10420.03	49.30	-0.66	48.64	54.00	-5.36	AV
H	15630.10	64.31	2.55	66.86	74.00	-7.14	PK
H	15630.10	49.73	2.55	52.28	54.00	-1.72	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

Test Mode:	TX(5.8G) - 802.11a
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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	4679.056	73.84	-10.36	63.48	74	-10.52	PK
V	4679.056	59.64	-10.36	49.28	54	-4.72	AV
V	11490.165	63.29	-0.19	63.10	68.2	-5.10	PK
V	11490.165	49.21	-0.19	49.02	54	-4.98	AV
V	17235.115	59.89	4.28	64.17	68.2	-4.03	PK
V	17235.115	44.36	4.28	48.64	54	-5.36	AV
H	4679.096	70.65	-10.36	60.29	74	-13.71	PK
H	4679.096	59.01	-10.36	48.65	54	-5.35	AV
H	11490.144	62.95	-0.19	62.76	68.2	-5.44	PK
H	11490.144	49.44	-0.19	49.25	54	-4.75	AV
H	17235.161	57.27	4.28	61.55	68.2	-6.65	PK
H	17235.161	44.15	4.28	48.43	54	-5.57	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.049	72.96	-10.20	62.76	74	-11.24	PK
V	4592.049	59.20	-10.20	49.00	54	-5.00	AV
V	11570.127	63.41	-0.21	63.20	68.2	-5.00	PK
V	11570.127	49.15	-0.21	48.94	54	-5.06	AV
V	17355.171	55.49	4.68	60.17	68.2	-8.03	PK
V	17355.171	44.31	4.68	48.99	54	-5.01	AV
H	4592.120	72.46	-10.20	62.26	74	-11.74	PK
H	4592.120	59.30	-10.20	49.10	54	-4.90	AV
H	11570.072	63.67	-0.21	63.46	68.2	-4.74	PK
H	11570.072	49.79	-0.21	49.58	54	-4.42	AV
H	17355.074	57.55	4.68	62.23	68.2	-5.97	PK
H	17355.074	44.56	4.68	49.24	54	-4.76	AV
High Channel (5825 MHz)-Above 1G							
V	6039.057	71.57	-7.08	64.49	68.2	-3.71	PK
V	6039.057	59.85	-7.08	52.77	54	-1.23	AV
V	11650.162	60.41	-0.50	59.91	74	-14.09	PK
V	11650.162	49.30	-0.50	48.80	54	-5.20	AV
V	17475.020	57.15	4.77	61.92	68.2	-6.28	PK
V	17475.020	44.48	4.77	49.25	54	-4.75	AV
H	6039.077	71.15	-7.08	64.07	68.2	-4.13	PK
H	6039.077	59.02	-7.08	51.94	54	-2.06	AV
H	11650.122	60.73	-0.50	60.23	74	-13.77	PK
H	11650.122	49.02	-0.50	48.52	54	-5.48	AV
H	17475.091	55.54	4.77	60.31	68.2	-7.89	PK
H	17475.091	44.53	4.77	49.30	54	-4.70	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

Test Mode: TX(5.8G) - 802.11n-HT20

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	4679.082	74.38	-10.36	64.02	74	-9.98	PK
V	4679.082	59.46	-10.36	49.10	54	-4.90	AV
V	11490.013	61.70	-0.19	61.51	68.2	-6.69	PK
V	11490.013	49.21	-0.19	49.02	54	-4.98	AV
V	17235.161	57.63	4.28	61.91	68.2	-6.29	PK
V	17235.161	44.64	4.28	48.92	54	-5.08	AV
H	4679.002	73.83	-10.36	63.47	74	-10.53	PK
H	4679.002	59.49	-10.36	49.13	54	-4.87	AV
H	11490.126	60.19	-0.19	60.00	68.2	-8.20	PK
H	11490.126	49.82	-0.19	49.63	54	-4.37	AV
H	17235.168	57.60	4.28	61.88	68.2	-6.32	PK
H	17235.168	44.69	4.28	48.97	54	-5.03	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.169	74.56	-10.20	64.36	74	-9.64	PK
V	4592.169	59.62	-10.20	49.42	54	-4.58	AV
V	11570.103	62.42	-0.21	62.21	68.2	-5.99	PK
V	11570.103	49.89	-0.21	49.68	54	-4.32	AV
V	17355.191	58.27	4.68	62.95	68.2	-5.25	PK
V	17355.191	44.66	4.68	49.34	54	-4.66	AV
H	4592.072	70.04	-10.20	59.84	74	-14.16	PK
H	4592.072	59.09	-10.20	48.89	54	-5.11	AV
H	11570.155	64.81	-0.21	64.60	68.2	-3.60	PK
H	11570.155	49.07	-0.21	48.86	54	-5.14	AV
H	17355.064	58.53	4.68	63.21	68.2	-4.99	PK
H	17355.064	44.10	4.68	48.78	54	-5.22	AV
High Channel (5825 MHz)-Above 1G							
V	6039.077	74.42	-7.08	67.34	68.2	-0.86	PK
V	6039.077	59.23	-7.08	52.15	54	-1.85	AV
V	11650.115	63.47	-0.50	62.97	74	-11.03	PK
V	11650.115	49.25	-0.50	48.75	54	-5.25	AV
V	17475.042	56.33	4.77	61.10	68.2	-7.10	PK
V	17475.042	44.79	4.77	49.56	54	-4.44	AV
H	6039.021	71.70	-7.08	64.62	68.2	-3.58	PK
H	6039.021	59.85	-7.08	52.77	54	-1.23	AV
H	11650.059	63.16	-0.50	62.66	74	-11.34	PK
H	11650.059	49.30	-0.50	48.80	54	-5.20	AV
H	17475.189	57.66	4.77	62.43	68.2	-5.77	PK
H	17475.189	44.94	4.77	49.71	54	-4.29	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

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	4679.051	73.02	-10.36	62.66	74	-11.34	PK
V	4679.051	59.64	-10.36	49.28	54	-4.72	AV
V	11510.131	61.19	-0.26	60.93	74	-13.07	PK
V	11510.131	49.78	-0.26	49.52	54	-4.48	AV
V	17265.035	56.09	4.35	60.44	68.2	-7.76	PK
V	17265.035	44.92	4.35	49.27	54	-4.73	AV
H	4679.087	70.42	-10.36	60.06	74	-13.94	PK
H	4679.087	59.55	-10.36	49.19	54	-4.81	AV
H	11510.150	63.35	-0.26	63.09	74	-10.91	PK
H	11510.150	49.82	-0.26	49.56	54	-4.44	AV
H	17265.033	55.43	4.35	59.78	68.2	-8.42	PK
H	17265.033	44.77	4.35	49.12	54	-4.88	AV
High Channel (5795 MHz)-Above 1G							
V	6039.011	73.56	-7.08	66.48	68.2	-1.72	PK
V	6039.011	59.25	-7.08	52.17	54	-1.83	AV
V	11590.143	64.33	-0.20	64.13	74	-9.87	PK
V	11590.143	49.41	-0.20	49.21	54	-4.79	AV
V	17385.013	57.43	4.81	62.24	68.2	-5.96	PK
V	17385.013	44.89	4.81	49.70	54	-4.30	AV
H	6039.151	70.77	-7.08	63.69	68.2	-4.51	PK
H	6039.151	59.09	-7.08	52.01	54	-1.99	AV
H	11590.003	64.51	-0.20	64.31	74	-9.69	PK
H	11590.003	49.26	-0.20	49.06	54	-4.94	AV
H	17385.013	55.12	4.81	59.93	68.2	-8.27	PK
H	17385.013	44.08	4.81	48.89	54	-5.11	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

Test Mode:	TX(5.8G) - 802.11ac-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 (5745 MHz)-Above 1G							
V	4679.117	73.74	-10.36	63.38	74	-10.62	PK
V	4679.117	59.96	-10.36	49.60	54	-4.40	AV
V	11490.163	64.81	-0.19	64.62	68.2	-3.58	PK
V	11490.163	49.22	-0.19	49.03	54	-4.97	AV
V	17235.000	59.42	4.28	63.70	68.2	-4.50	PK
V	17235.000	44.09	4.28	48.37	54	-5.63	AV
H	4679.173	72.67	-10.36	62.31	74	-11.69	PK
H	4679.173	59.35	-10.36	48.99	54	-5.01	AV
H	11490.038	63.84	-0.19	63.65	68.2	-4.55	PK
H	11490.038	49.32	-0.19	49.13	54	-4.87	AV
H	17235.114	58.57	4.28	62.85	68.2	-5.35	PK
H	17235.114	44.58	4.28	48.86	54	-5.14	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.118	74.13	-10.20	63.93	74	-10.07	PK
V	4592.118	59.33	-10.20	49.13	54	-4.87	AV
V	11570.179	64.03	-0.21	63.82	68.2	-4.38	PK
V	11570.179	49.15	-0.21	48.94	54	-5.06	AV
V	17355.030	55.95	4.68	60.63	68.2	-7.57	PK
V	17355.030	44.91	4.68	49.59	54	-4.41	AV
H	4592.088	74.38	-10.20	64.18	74	-9.82	PK
H	4592.088	59.42	-10.20	49.22	54	-4.78	AV
H	11570.037	64.64	-0.21	64.43	68.2	-3.77	PK
H	11570.037	49.98	-0.21	49.77	54	-4.23	AV
H	17355.168	56.81	4.68	61.49	68.2	-6.71	PK
H	17355.168	44.16	4.68	48.84	54	-5.16	AV
High Channel (5825 MHz)-Above 1G							
V	6039.099	70.05	-7.08	62.97	68.2	-5.23	PK
V	6039.099	59.71	-7.08	52.63	54	-1.37	AV
V	11650.090	61.77	-0.50	61.27	74	-12.73	PK
V	11650.090	49.63	-0.50	49.13	54	-4.87	AV
V	17475.192	58.93	4.77	63.70	68.2	-4.50	PK
V	17475.192	44.57	4.77	49.34	54	-4.66	AV
H	6039.128	73.72	-7.08	66.64	68.2	-1.56	PK
H	6039.128	59.72	-7.08	52.64	54	-1.36	AV
H	11650.189	60.45	-0.50	59.95	74	-14.05	PK
H	11650.189	49.75	-0.50	49.25	54	-4.75	AV
H	17475.010	59.29	4.77	64.06	68.2	-4.14	PK
H	17475.010	44.30	4.77	49.07	54	-4.93	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).
Correct Factor =Antenna Factor + Cable Loss - Preamp Factor
Over = Reading Level + Correct Factor - Limits

Test Mode:	TX(5.8G) - 802.11ac-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	4679.108	72.88	-10.36	62.52	74	-11.48	PK
V	4679.108	59.69	-10.36	49.33	54	-4.67	AV
V	11510.169	64.06	-0.26	63.80	74	-10.20	PK
V	11510.169	49.19	-0.26	48.93	54	-5.07	AV
V	17265.110	58.06	4.35	62.41	68.2	-5.79	PK
V	17265.110	44.90	4.35	49.25	54	-4.75	AV
H	4679.040	73.65	-10.36	63.29	74	-10.71	PK
H	4679.040	59.09	-10.36	48.73	54	-5.27	AV
H	11510.182	63.25	-0.26	62.99	74	-11.01	PK
H	11510.182	49.26	-0.26	49.00	54	-5.00	AV
H	17265.169	59.14	4.35	63.49	68.2	-4.71	PK
H	17265.169	44.29	4.35	48.64	54	-5.36	AV
High Channel (5795 MHz)-Above 1G							
V	6039.138	71.26	-7.08	64.18	68.2	-4.02	PK
V	6039.138	59.26	-7.08	52.18	54	-1.82	AV
V	11590.048	63.19	-0.20	62.99	74	-11.01	PK
V	11590.048	49.75	-0.20	49.55	54	-4.45	AV
V	17385.138	55.27	4.81	60.08	68.2	-8.12	PK
V	17385.138	44.46	4.81	49.27	54	-4.73	AV
H	6039.161	71.78	-7.08	64.70	68.2	-3.50	PK
H	6039.161	59.63	-7.08	52.55	54	-1.45	AV
H	11590.017	63.07	-0.20	62.87	74	-11.13	PK
H	11590.017	49.61	-0.20	49.41	54	-4.59	AV
H	17385.065	57.68	4.81	62.49	68.2	-5.71	PK
H	17385.065	44.37	4.81	49.18	54	-4.82	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).
Correct Factor =Antenna Factor + Cable Loss - Preamp Factor
Over = Reading Level + Correct Factor - Limits

Test Mode:	TX(5.8G) - 802.11ac-HT80
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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)	
(5775 MHz)-Above 1G							
V	4679.184	72.63	-10.36	62.27	74	-11.73	PK
V	4679.184	59.21	-10.36	48.85	54	-5.15	AV
V	11550.067	61.81	0.23	62.04	74	-11.96	PK
V	11550.067	49.59	0.23	49.82	54	-4.18	AV
V	17325.167	56.62	4.55	61.17	68.2	-7.03	PK
V	17325.167	44.52	4.55	49.07	54	-4.93	AV
H	4679.178	70.94	-10.36	60.58	74	-13.42	PK
H	4679.178	59.86	-10.36	49.50	54	-4.50	AV
H	11550.079	60.73	0.23	60.96	74	-13.04	PK
H	11550.079	49.04	0.23	49.27	54	-4.73	AV
H	17325.191	57.99	4.55	62.54	68.2	-5.66	PK
H	17325.191	44.87	4.55	49.42	54	-4.58	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

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Test Mode:	TX(5.8G) - 802.11ax-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	4679.110	71.97	-10.36	61.61	74	-12.39	PK
V	4679.110	59.33	-10.36	48.97	54	-5.03	AV
V	11490.051	63.24	-0.19	63.05	68.2	-5.15	PK
V	11490.051	49.03	-0.19	48.84	54	-5.16	AV
V	17235.063	58.79	4.28	63.07	68.2	-5.13	PK
V	17235.063	44.25	4.28	48.53	54	-5.47	AV
H	4679.151	74.82	-10.36	64.46	74	-9.54	PK
H	4679.151	59.66	-10.36	49.30	54	-4.70	AV
H	11490.170	63.81	-0.19	63.62	68.2	-4.58	PK
H	11490.170	49.59	-0.19	49.40	54	-4.60	AV
H	17235.102	58.35	4.28	62.63	68.2	-5.57	PK
H	17235.102	44.39	4.28	48.67	54	-5.33	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.029	74.73	-10.20	64.53	74	-9.47	PK
V	4592.029	59.04	-10.20	48.84	54	-5.16	AV
V	11570.147	60.71	-0.21	60.50	68.2	-7.70	PK
V	11570.147	49.20	-0.21	48.99	54	-5.01	AV
V	17355.015	59.88	4.68	64.56	68.2	-3.64	PK
V	17355.015	44.92	4.68	49.60	54	-4.40	AV
H	4592.186	71.18	-10.20	60.98	74	-13.02	PK
H	4592.186	59.28	-10.20	49.08	54	-4.92	AV
H	11570.110	62.55	-0.21	62.34	68.2	-5.86	PK
H	11570.110	49.94	-0.21	49.73	54	-4.27	AV
H	17355.052	58.31	4.68	62.99	68.2	-5.21	PK
H	17355.052	44.31	4.68	48.99	54	-5.01	AV
High Channel (5825 MHz)-Above 1G							
V	6039.103	72.39	-7.08	65.31	68.2	-2.89	PK
V	6039.103	59.74	-7.08	52.66	54	-1.34	AV
V	11650.185	60.97	-0.50	60.47	74	-13.53	PK
V	11650.185	49.62	-0.50	49.12	54	-4.88	AV
V	17475.196	56.57	4.77	61.34	68.2	-6.86	PK
V	17475.196	44.93	4.77	49.70	54	-4.30	AV
H	6039.100	70.15	-7.08	63.07	68.2	-5.13	PK
H	6039.100	59.94	-7.08	52.86	54	-1.14	AV
H	11650.183	62.54	-0.50	62.04	74	-11.96	PK
H	11650.183	49.33	-0.50	48.83	54	-5.17	AV
H	17475.116	55.82	4.77	60.59	68.2	-7.61	PK
H	17475.116	44.61	4.77	49.38	54	-4.62	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).

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

Test Mode:	TX(5.8G) - 802.11ax-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	4679.091	73.37	-10.36	63.01	74	-10.99	PK
V	4679.091	59.90	-10.36	49.54	54	-4.46	AV
V	11510.021	61.96	-0.26	61.70	74	-12.30	PK
V	11510.021	49.77	-0.26	49.51	54	-4.49	AV
V	17265.098	59.69	4.35	64.04	68.2	-4.16	PK
V	17265.098	44.06	4.35	48.41	54	-5.59	AV
H	4679.189	73.50	-10.36	63.14	74	-10.86	PK
H	4679.189	59.44	-10.36	49.08	54	-4.92	AV
H	11510.036	64.99	-0.26	64.73	74	-9.27	PK
H	11510.036	49.33	-0.26	49.07	54	-4.93	AV
H	17265.059	57.47	4.35	61.82	68.2	-6.38	PK
H	17265.059	44.48	4.35	48.83	54	-5.17	AV
High Channel (5795 MHz)-Above 1G							
V	6039.167	74.21	-7.08	67.13	68.2	-1.07	PK
V	6039.167	59.09	-7.08	52.01	54	-1.99	AV
V	11590.036	64.07	-0.20	63.87	74	-10.13	PK
V	11590.036	49.31	-0.20	49.11	54	-4.89	AV
V	17385.104	55.42	4.81	60.23	68.2	-7.97	PK
V	17385.104	44.42	4.81	49.23	54	-4.77	AV
H	6039.003	72.96	-7.08	65.88	68.2	-2.32	PK
H	6039.003	59.61	-7.08	52.53	54	-1.47	AV
H	11590.114	60.73	-0.20	60.53	74	-13.47	PK
H	11590.114	49.75	-0.20	49.55	54	-4.45	AV
H	17385.026	59.58	4.81	64.39	68.2	-3.81	PK
H	17385.026	44.75	4.81	49.56	54	-4.44	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).
Correct Factor =Antenna Factor + Cable Loss - Preamp Factor
Over = Reading Level + Correct Factor - Limits

Test Mode:	TX(5.8G) - 802.11ax-HT80
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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)	
(5775 MHz)-Above 1G							
V	4679.010	74.11	-10.36	63.75	74	-10.25	PK
V	4679.010	59.16	-10.36	48.80	54	-5.20	AV
V	11550.178	60.37	0.23	60.60	74	-13.40	PK
V	11550.178	49.05	0.23	49.28	54	-4.72	AV
V	17325.138	58.88	4.55	63.43	68.2	-4.77	PK
V	17325.138	44.02	4.55	48.57	54	-5.43	AV
H	4679.015	73.61	-10.36	63.25	74	-10.75	PK
H	4679.015	59.94	-10.36	49.58	54	-4.42	AV
H	11550.165	64.72	0.23	64.95	74	-9.05	PK
H	11550.165	49.79	0.23	50.02	54	-3.98	AV
H	17325.173	58.98	4.55	63.53	68.2	-4.67	PK
H	17325.173	44.81	4.55	49.36	54	-4.64	AV

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

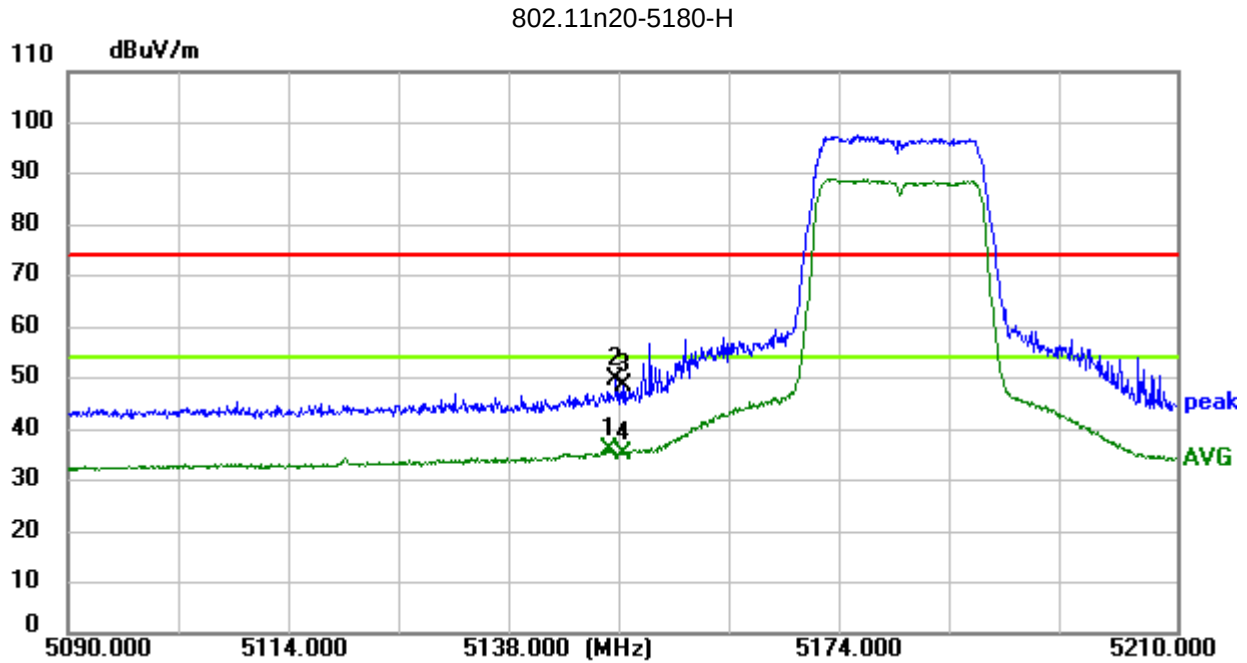
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

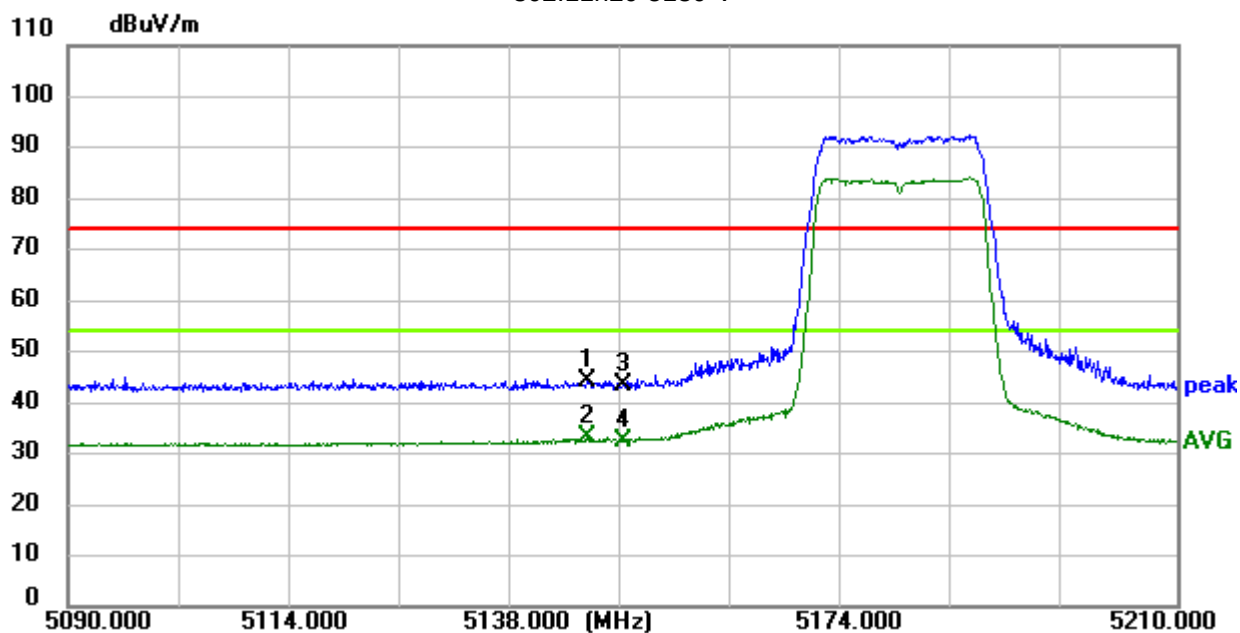
Over = Reading Level + Correct Factor - Limits

- ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
- All the modes has been tested and the worst result 802.11n20 recorded as below:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5148.5600	44.50	-8.63	35.87	54.00	-18.13	AVG
2	5149.2799	58.21	-8.63	49.58	74.00	-24.42	peak
3	5150.0000	57.01	-8.63	48.38	74.00	-25.62	peak
4	5150.0000	43.78	-8.63	35.15	54.00	-18.85	AVG

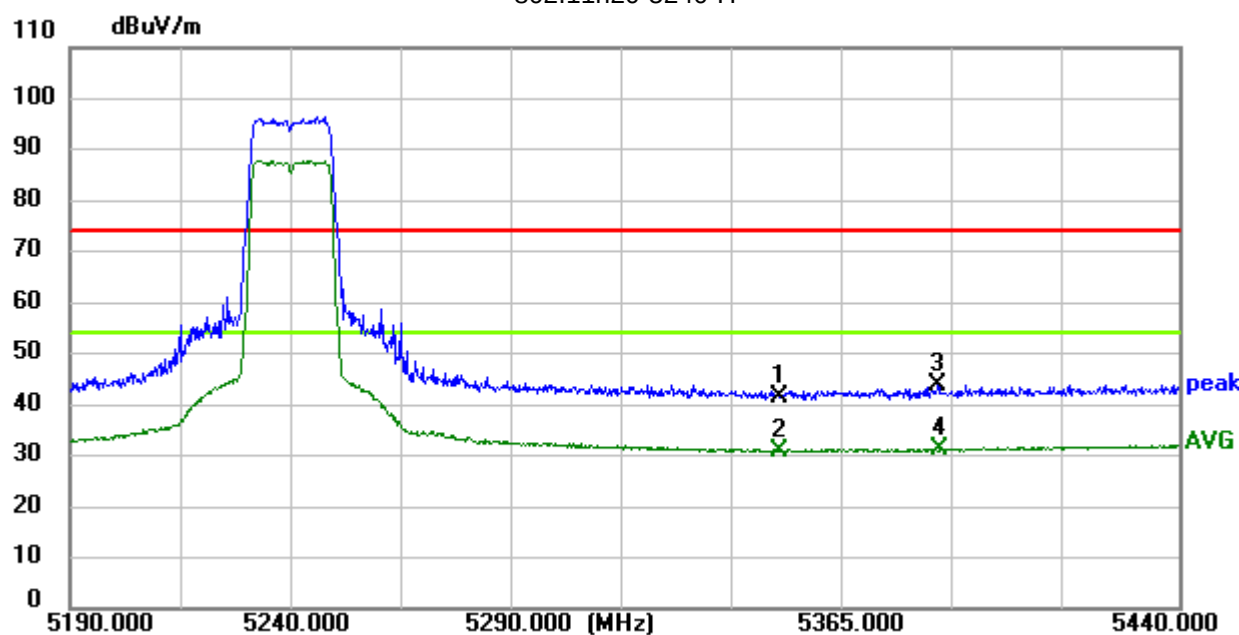
802.11n20-5180-V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5146.1600	52.92	-8.62	44.30	74.00	-29.70	peak
2 *	5146.1600	41.71	-8.62	33.09	54.00	-20.91	AVG
3	5150.0000	52.06	-8.63	43.43	74.00	-30.57	peak
4	5150.0000	41.12	-8.63	32.49	54.00	-21.51	AVG

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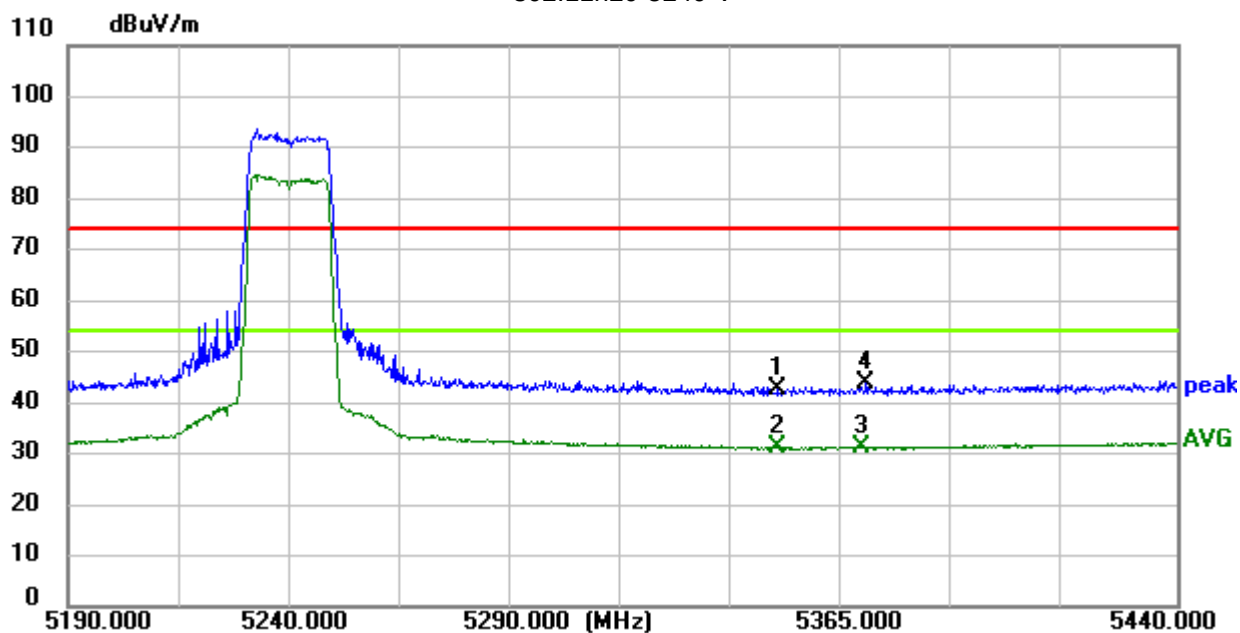
802.11n20-5240-H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.0000	50.12	-8.64	41.48	74.00	-32.52	peak
2	5350.0000	39.54	-8.64	30.90	54.00	-23.10	AVG
3	5385.7500	52.52	-8.62	43.90	74.00	-30.10	peak
4 *	5386.0000	39.89	-8.62	31.27	54.00	-22.73	AVG



802.11n20-5240-V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.0000	51.11	-8.64	42.47	74.00	-31.53	peak
2	5350.0000	39.69	-8.64	31.05	54.00	-22.95	AVG
3 *	5369.0000	39.94	-8.62	31.32	54.00	-22.68	AVG
4	5370.0000	52.29	-8.62	43.67	74.00	-30.33	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.

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 access point 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 access point 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 access points 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 5.25-5.35 GHz and 5.47-5.725 GHz bands,

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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

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 $RBW (< 500 \text{ KHz})$ 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 $RBW (< 1 \text{ MHz})$ 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 $RBW=100 \text{ KHz}$ 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

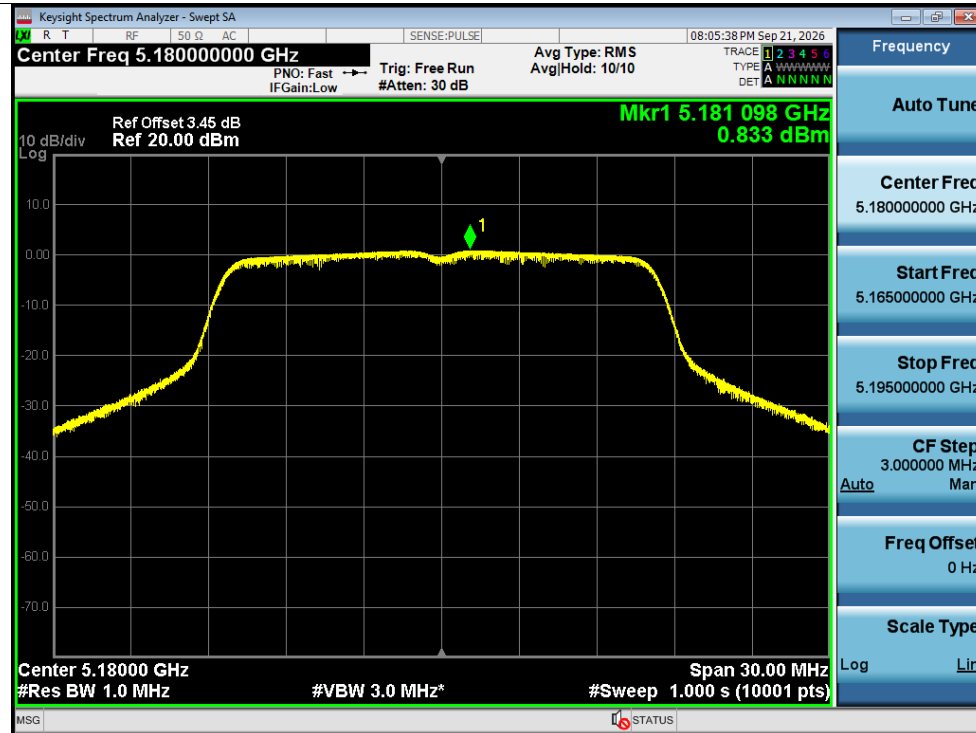
Temperature:	23 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	0.83	0.31	1.14	11	Pass
NVNT	a	5200	0.87	0.35	1.22	11	Pass
NVNT	a	5240	1.16	0.25	1.41	11	Pass
NVNT	n20	5180	-0.69	0.18	-0.51	11	Pass
NVNT	n20	5200	-0.61	0.12	-0.49	11	Pass
NVNT	n20	5240	-0.16	0.14	-0.02	11	Pass
NVNT	n40	5190	-3.87	0.12	-3.75	11	Pass
NVNT	n40	5230	-1.62	0.11	-1.51	11	Pass
NVNT	ac20	5180	-0.8	0.14	-0.66	11	Pass
NVNT	ac20	5200	-0.55	0.1	-0.45	11	Pass
NVNT	ac20	5240	-0.19	0.13	-0.06	11	Pass
NVNT	ac40	5190	-3.92	0.11	-3.81	11	Pass
NVNT	ac40	5230	-3.66	0.11	-3.55	11	Pass
NVNT	ac80	5210	-8.15	0.16	-7.99	11	Pass
NVNT	ax20	5180	-0.57	0.14	-0.43	11	Pass
NVNT	ax20	5200	-0.02	0.25	0.23	11	Pass
NVNT	ax20	5240	0.4	0.2	0.6	11	Pass
NVNT	ax40	5190	-4.03	0.12	-3.91	11	Pass
NVNT	ax40	5230	-3.68	0.19	-3.49	11	Pass
NVNT	ax80	5210	-8.27	0.13	-8.14	11	Pass

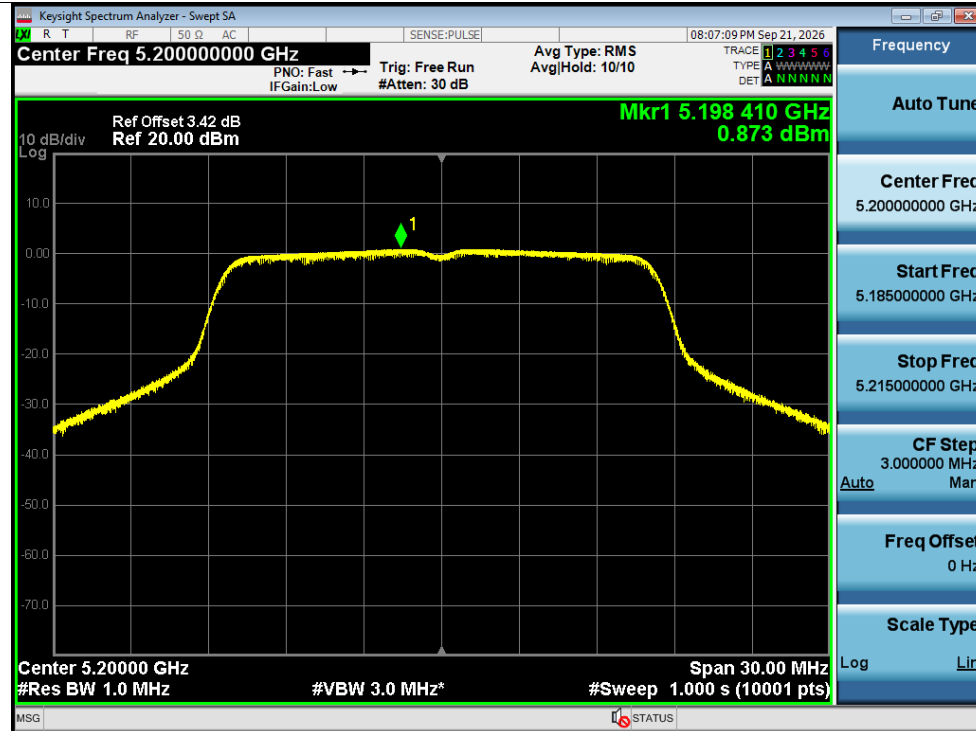


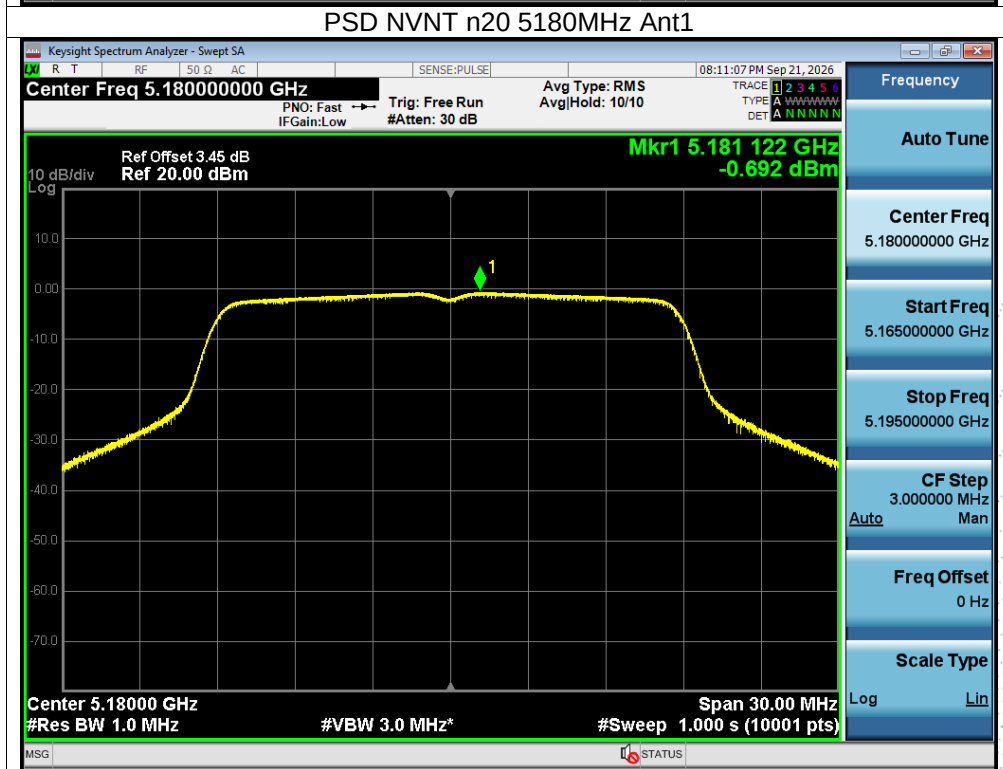
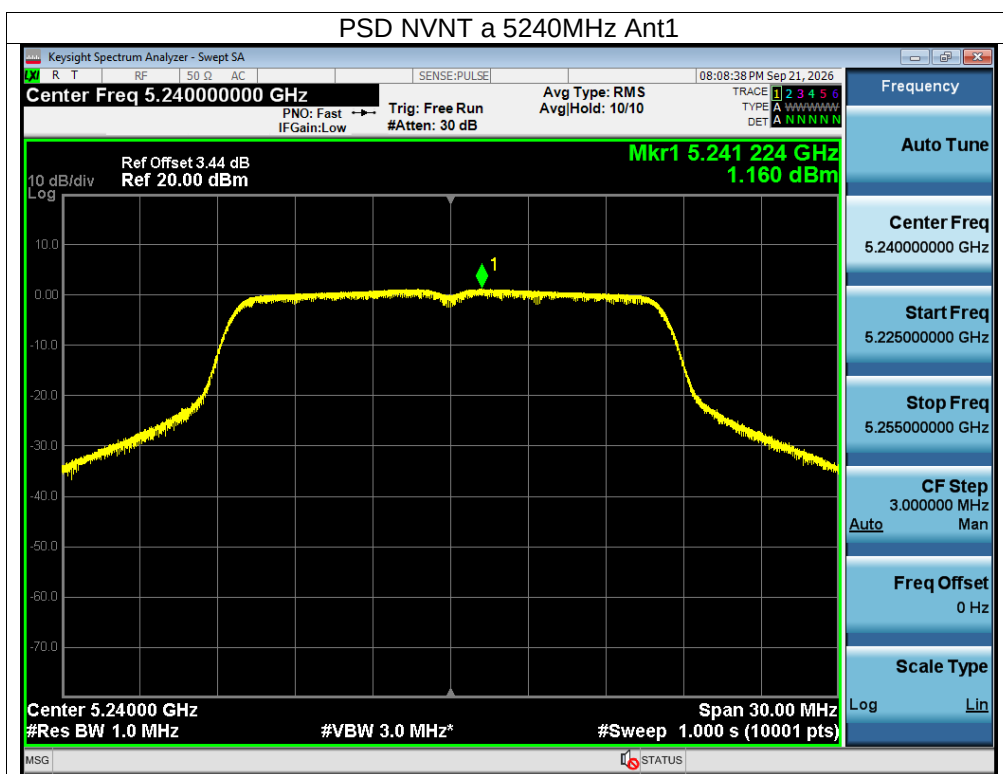
Test Graphs

PSD NVNT a 5180MHz Ant1

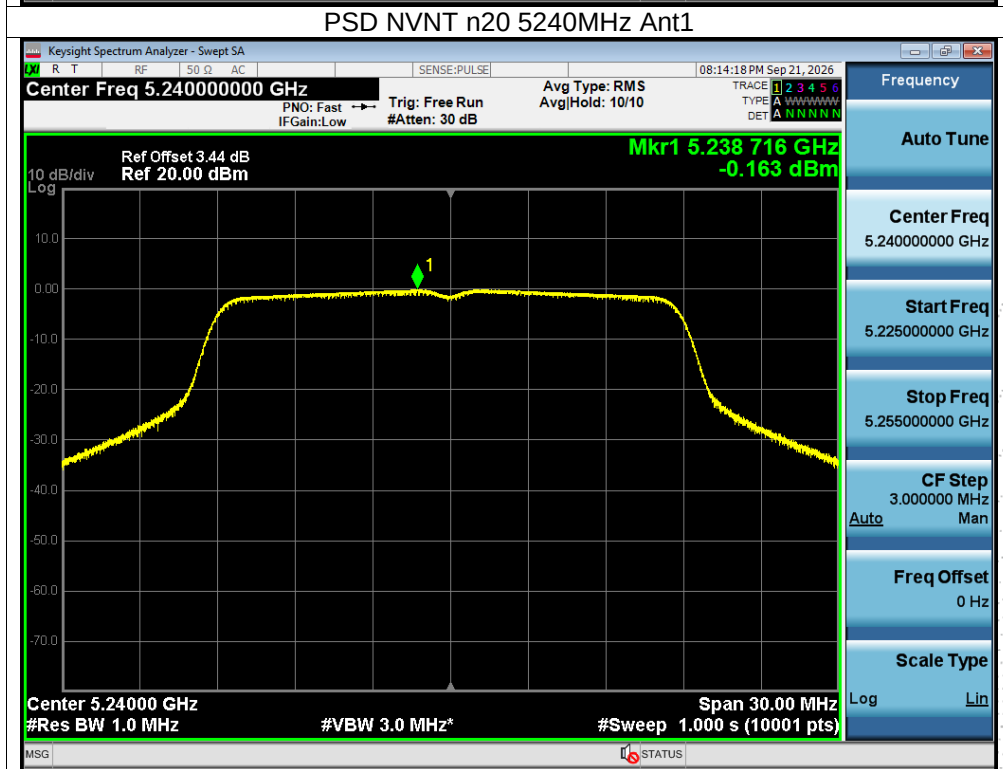
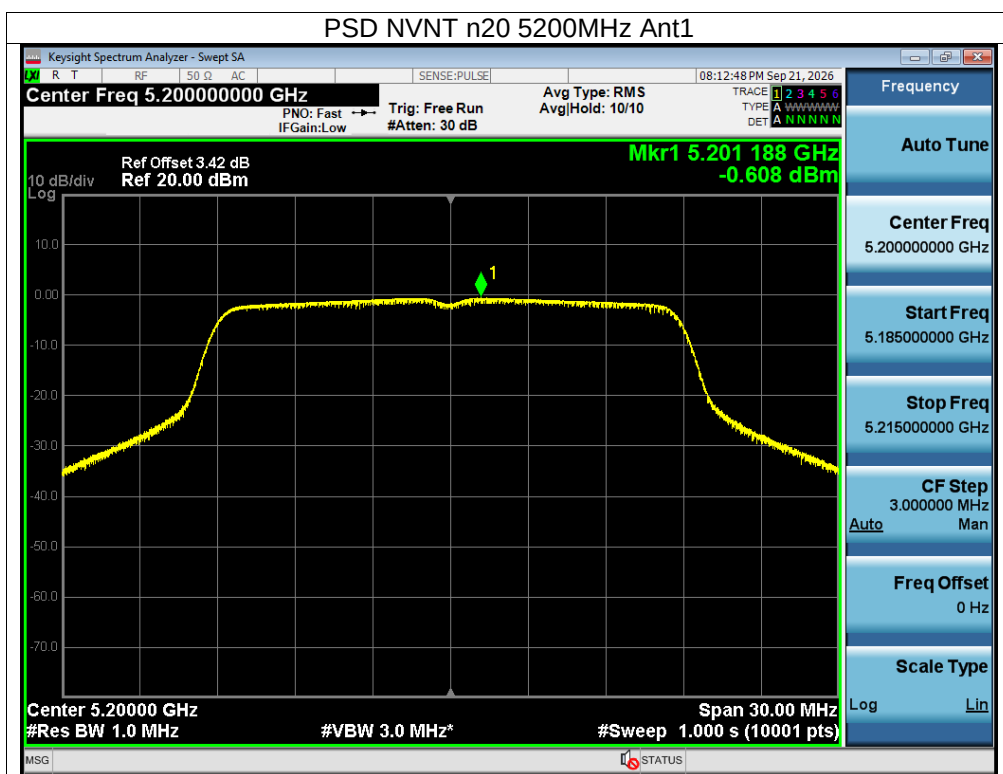


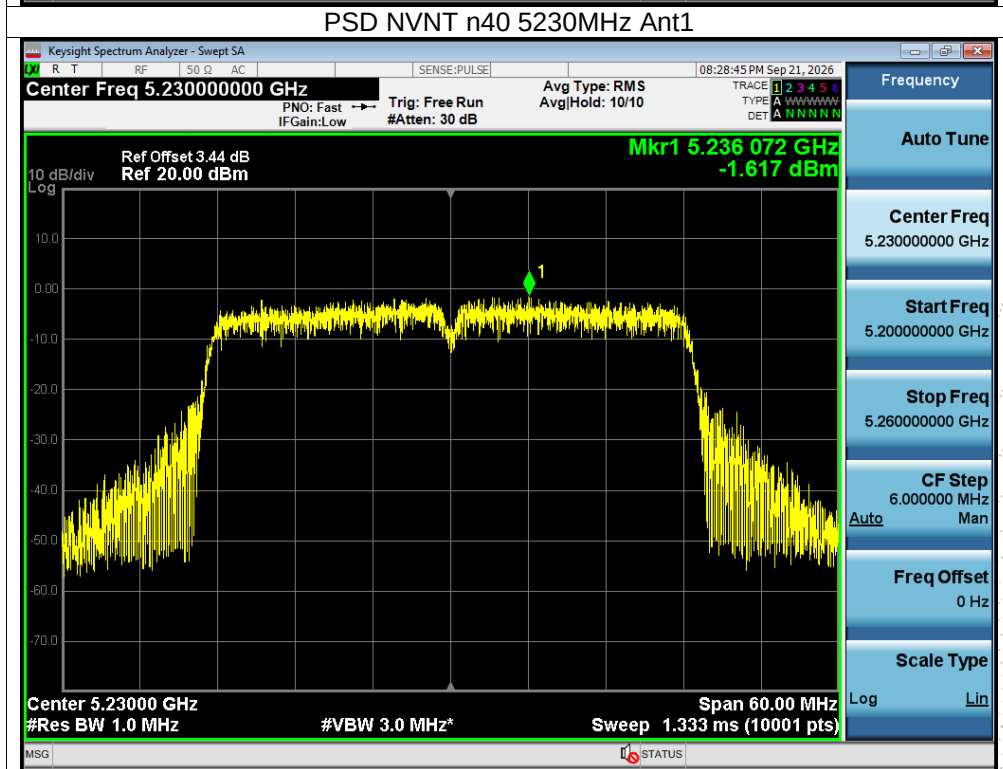
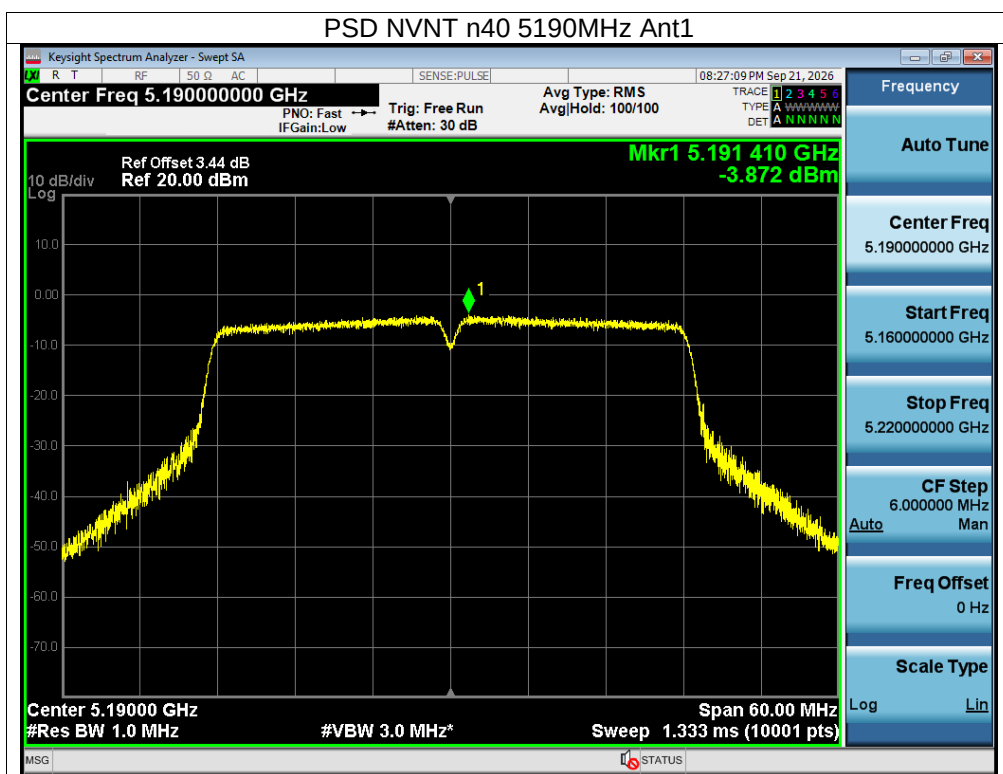
PSD NVNT a 5200MHz Ant1

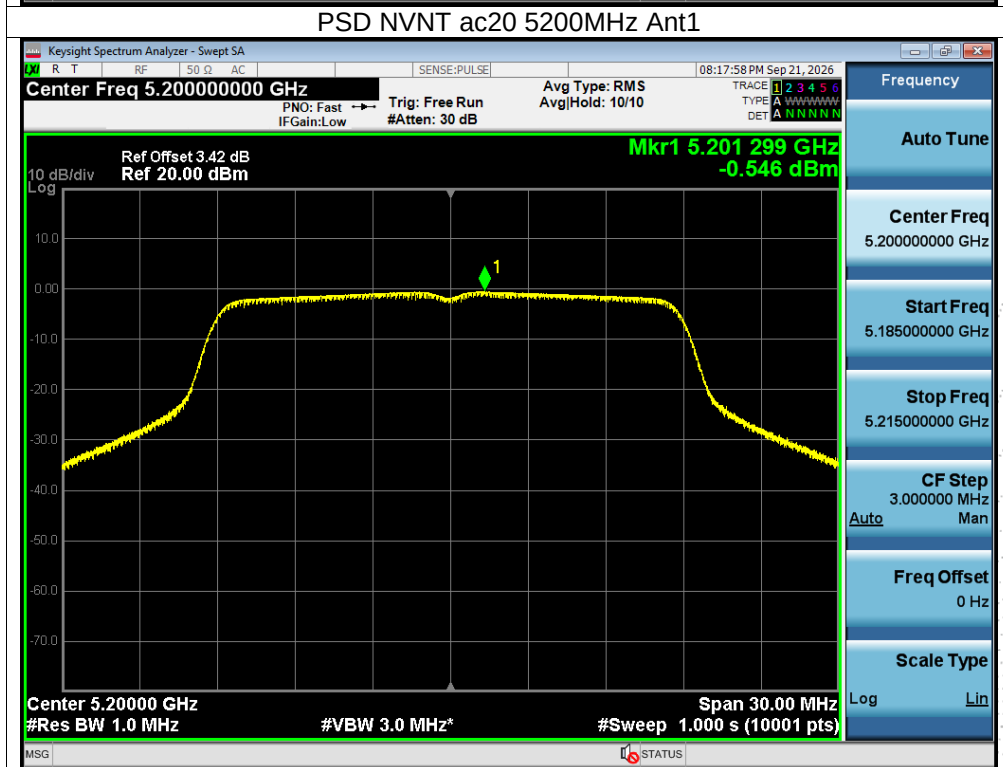
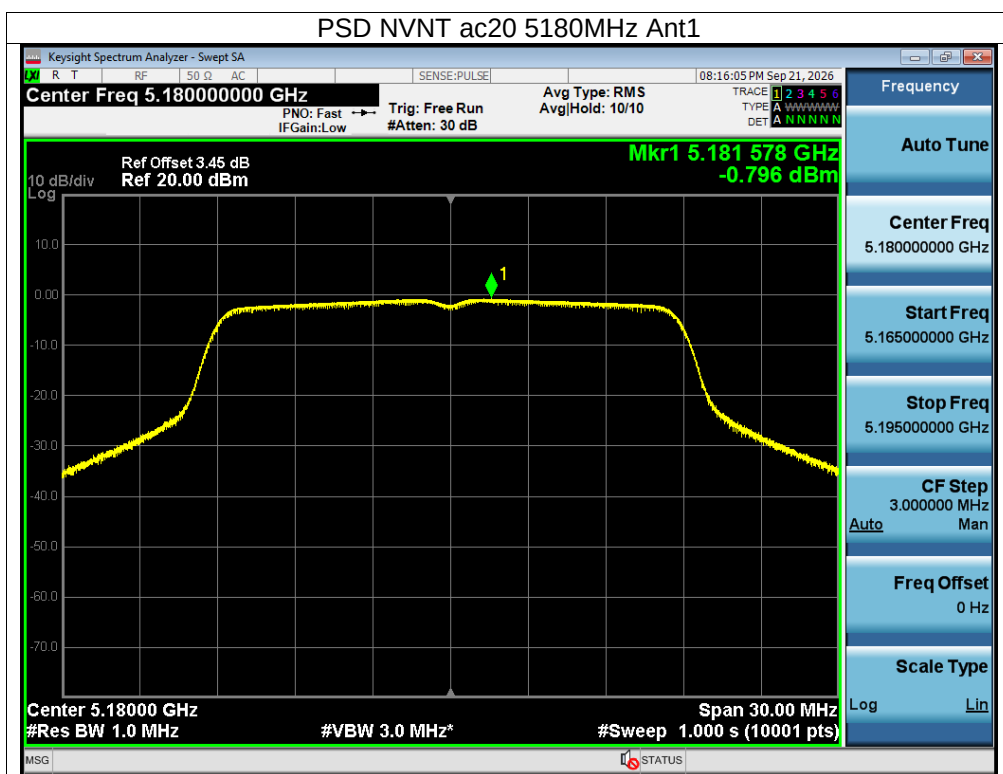


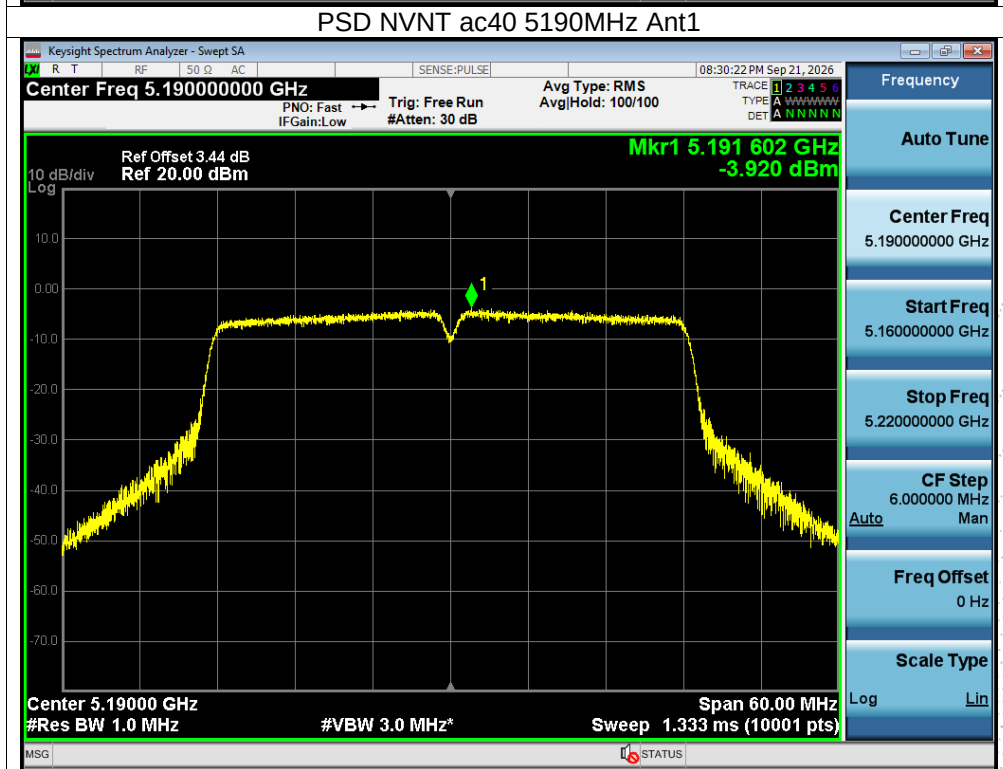
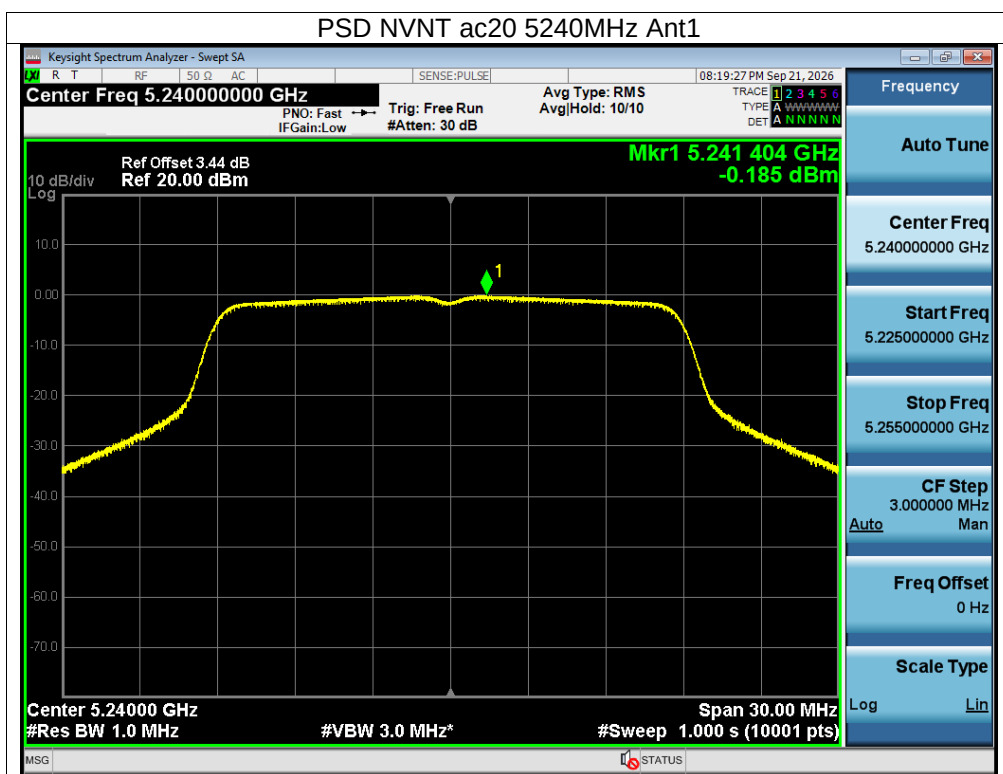


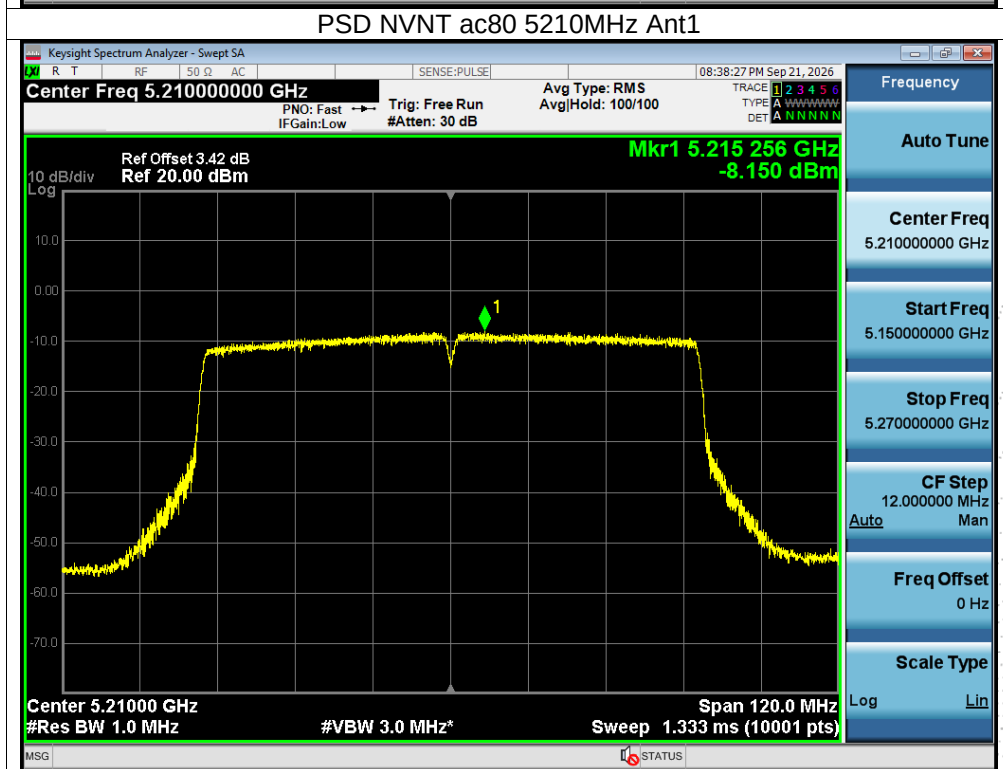
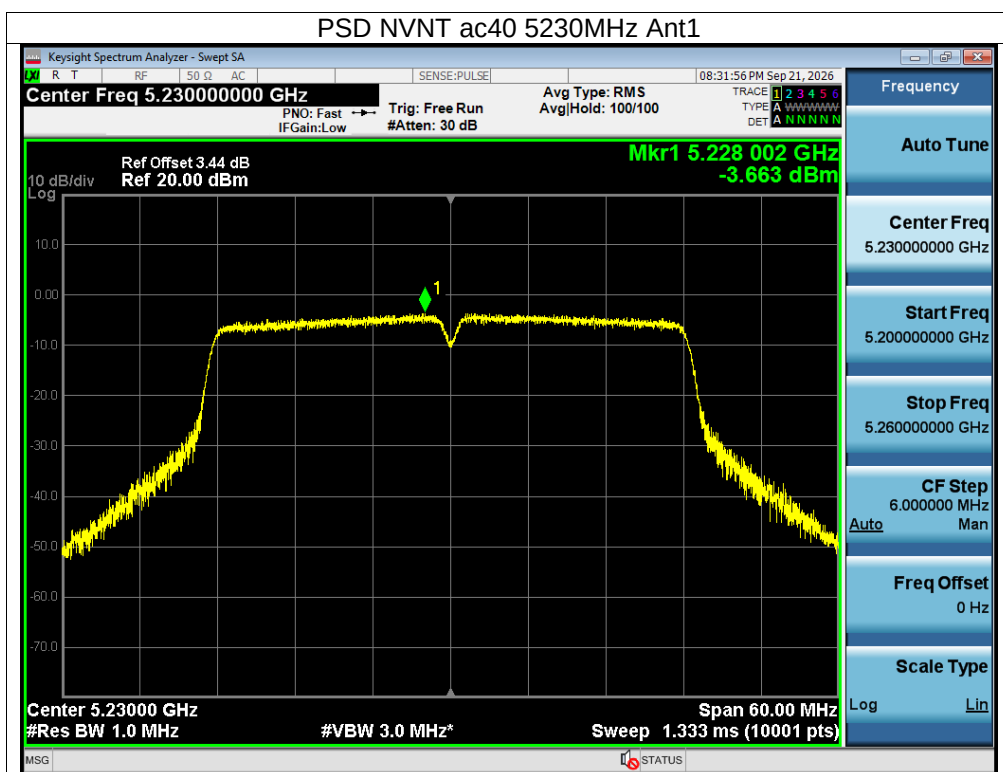
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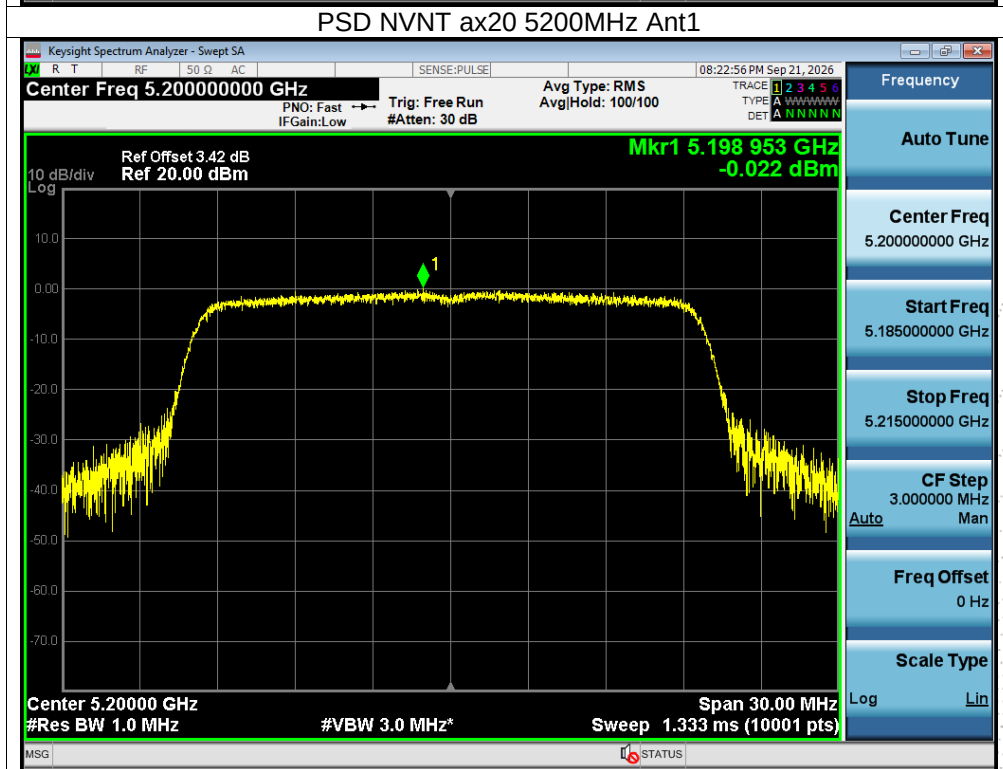
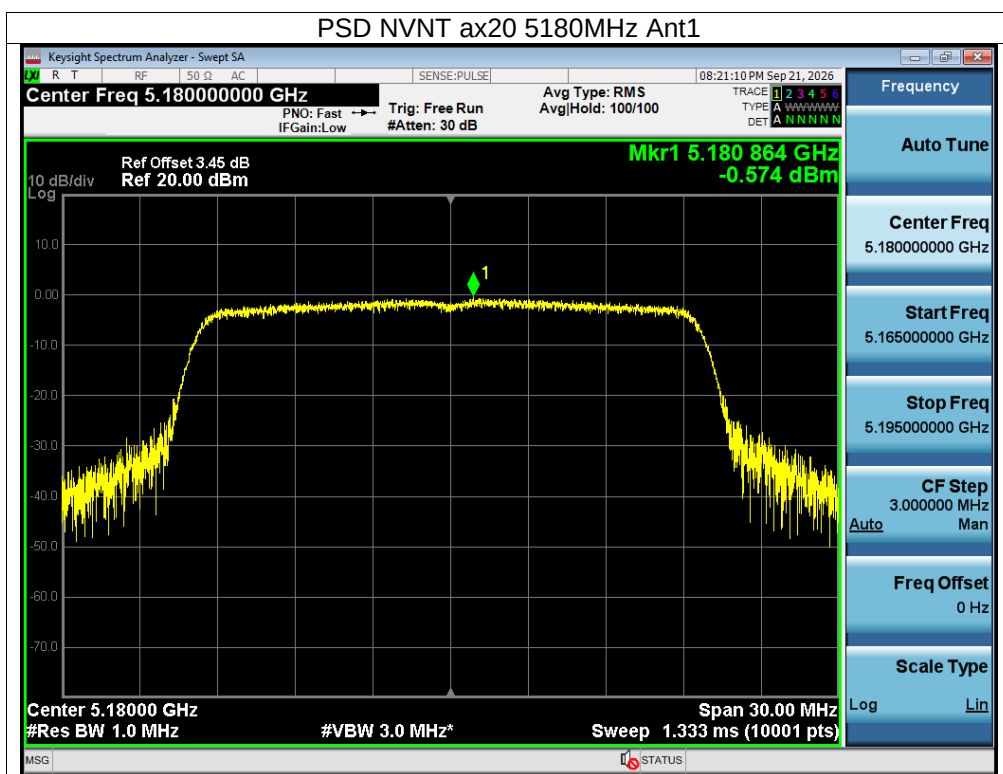




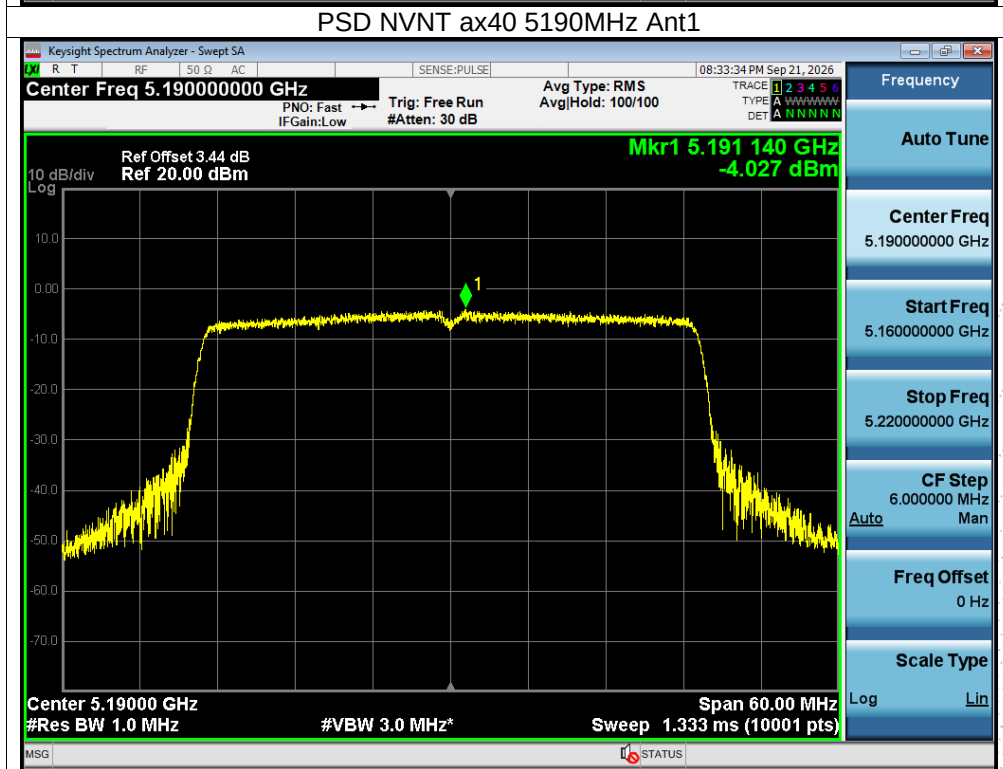
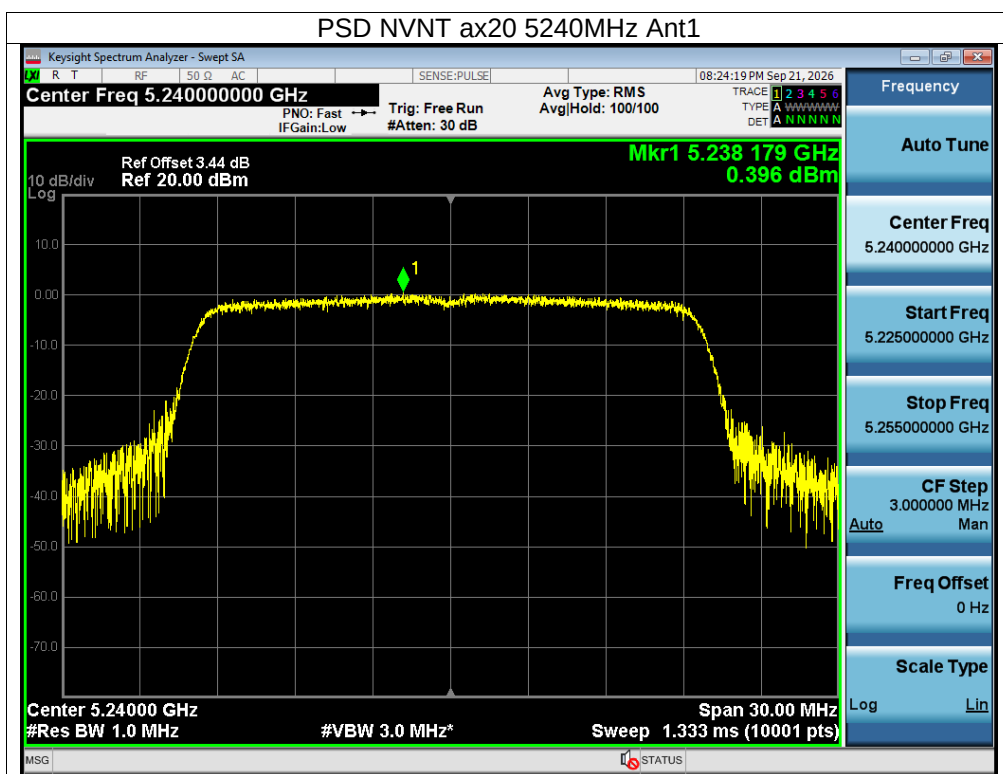


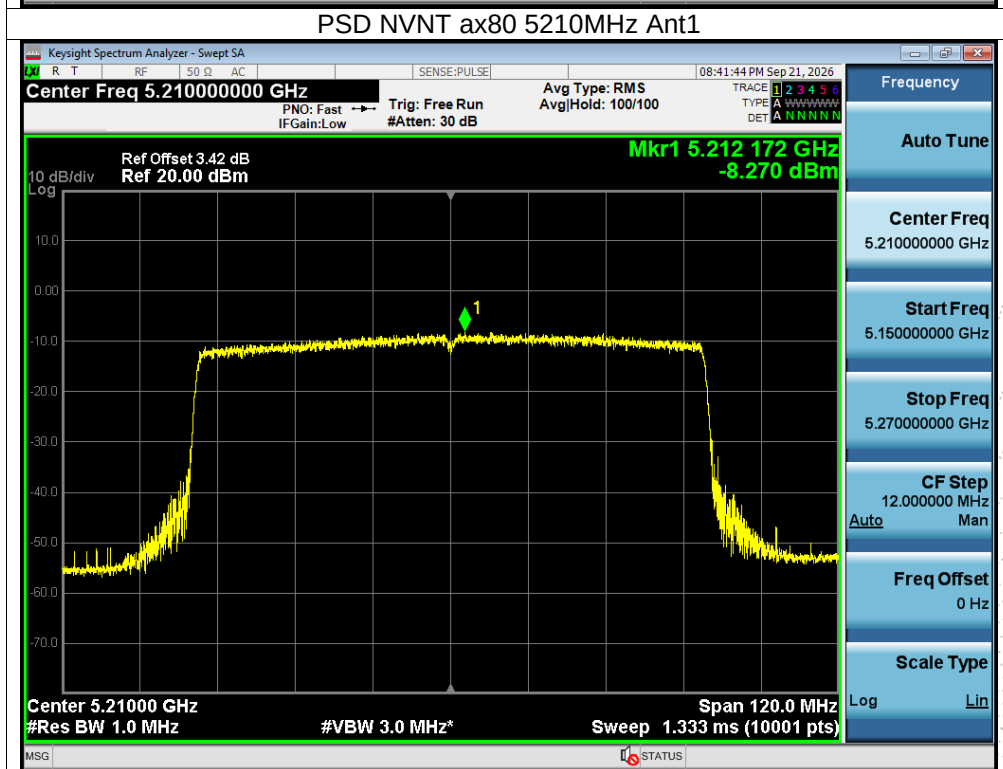
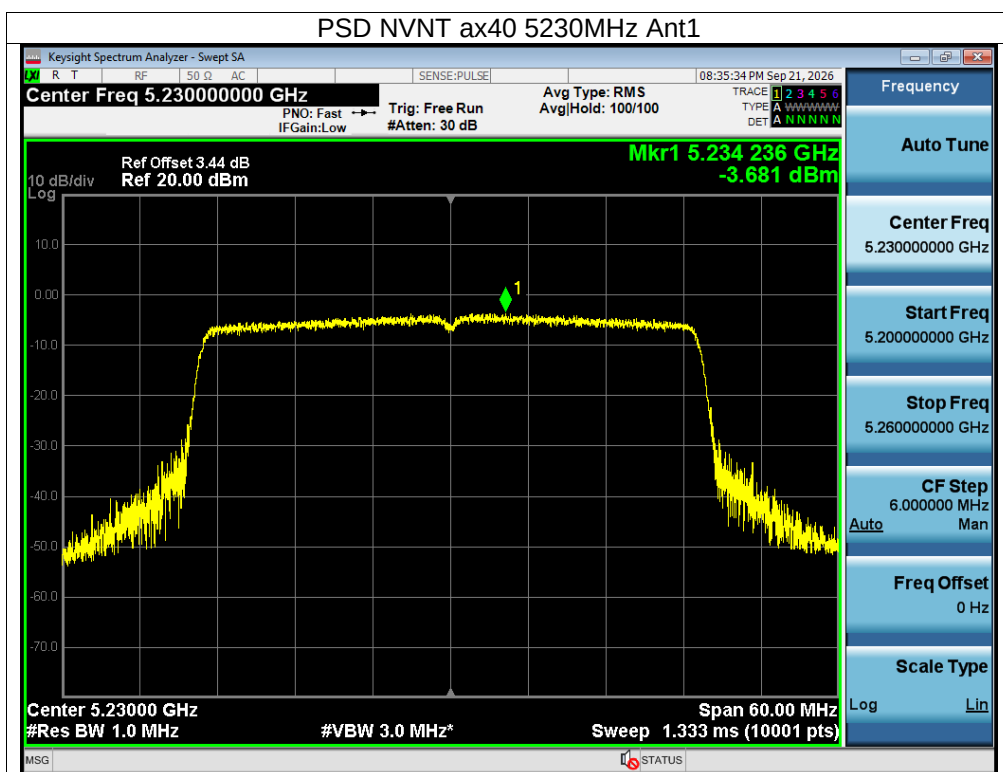






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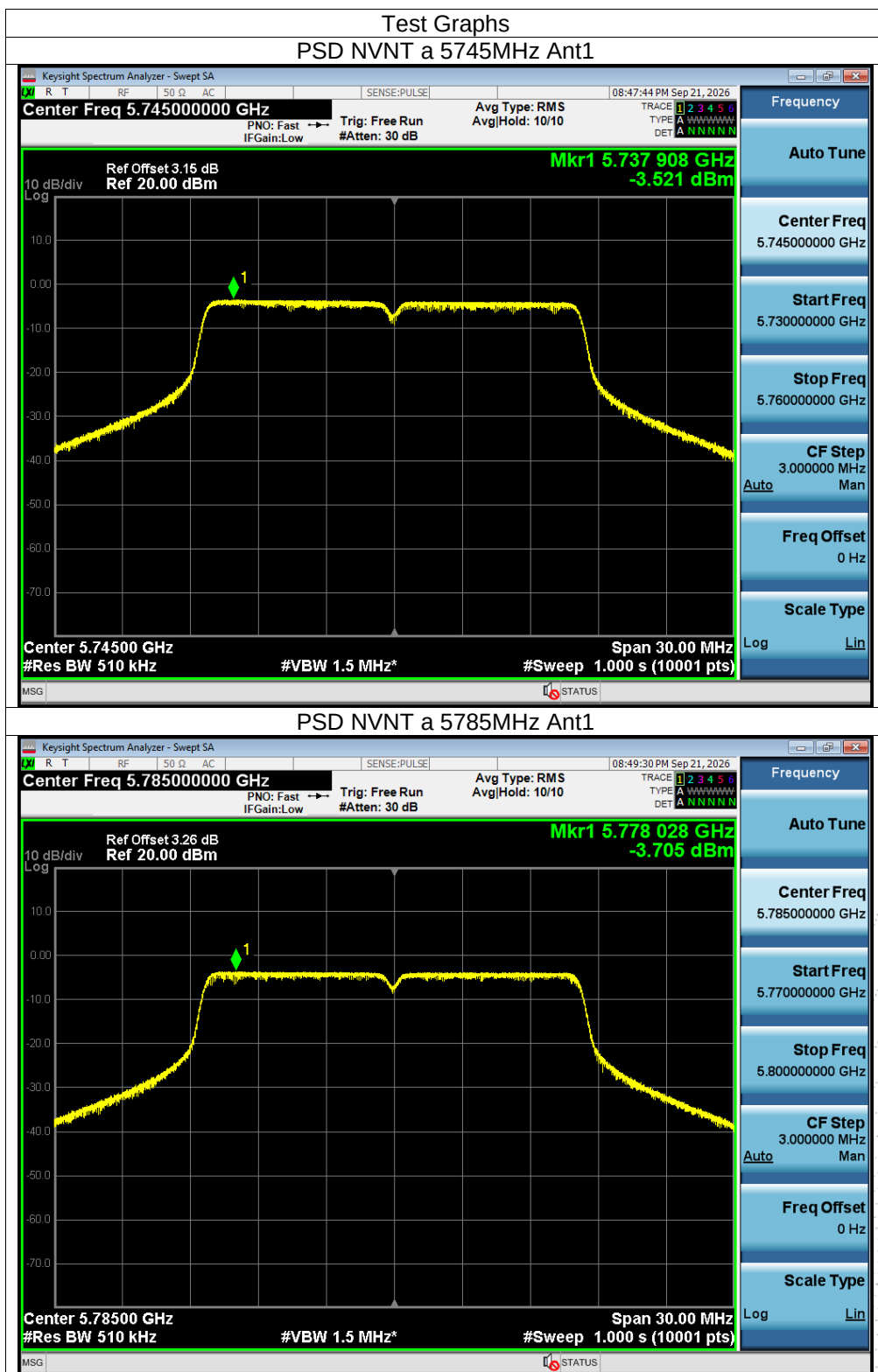


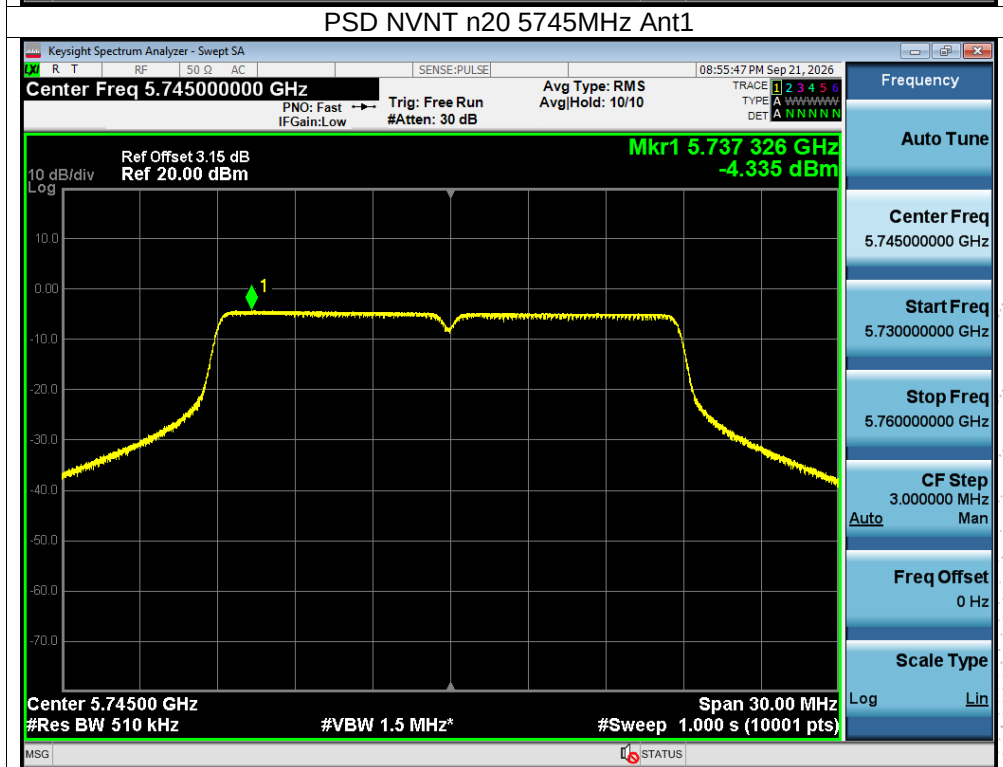
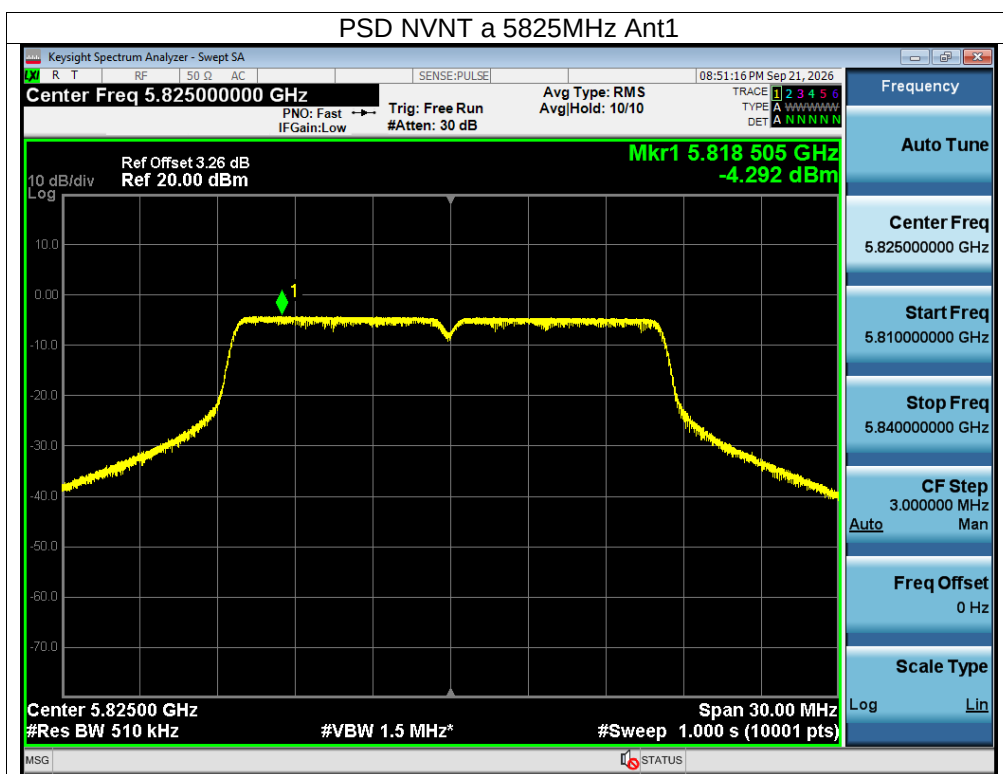


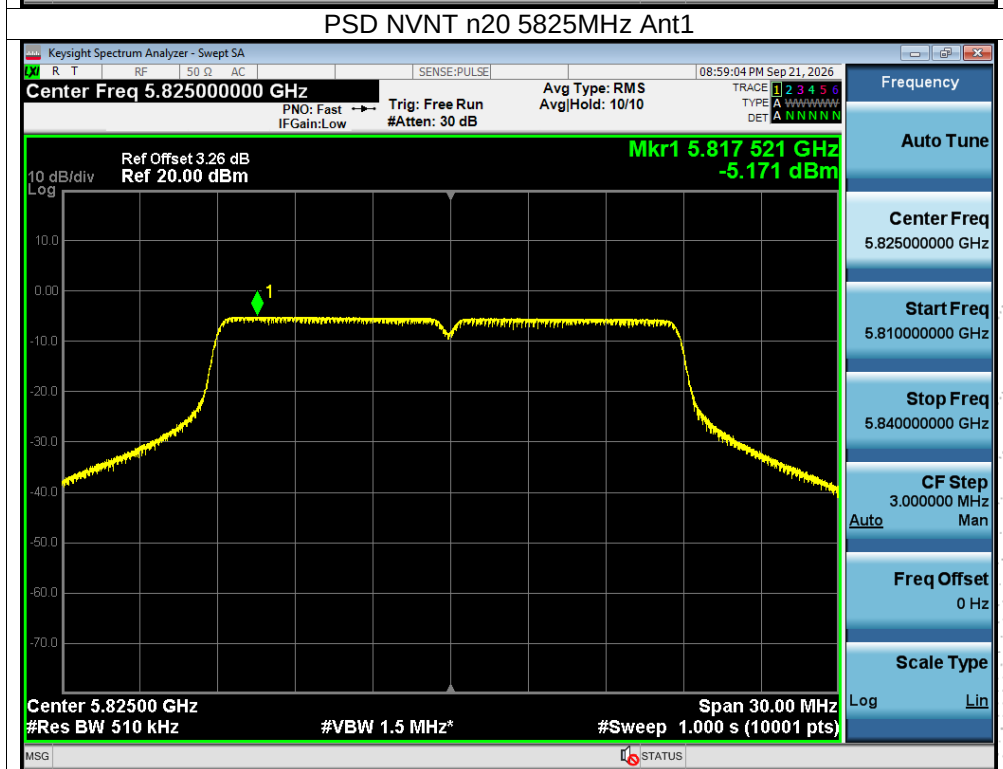
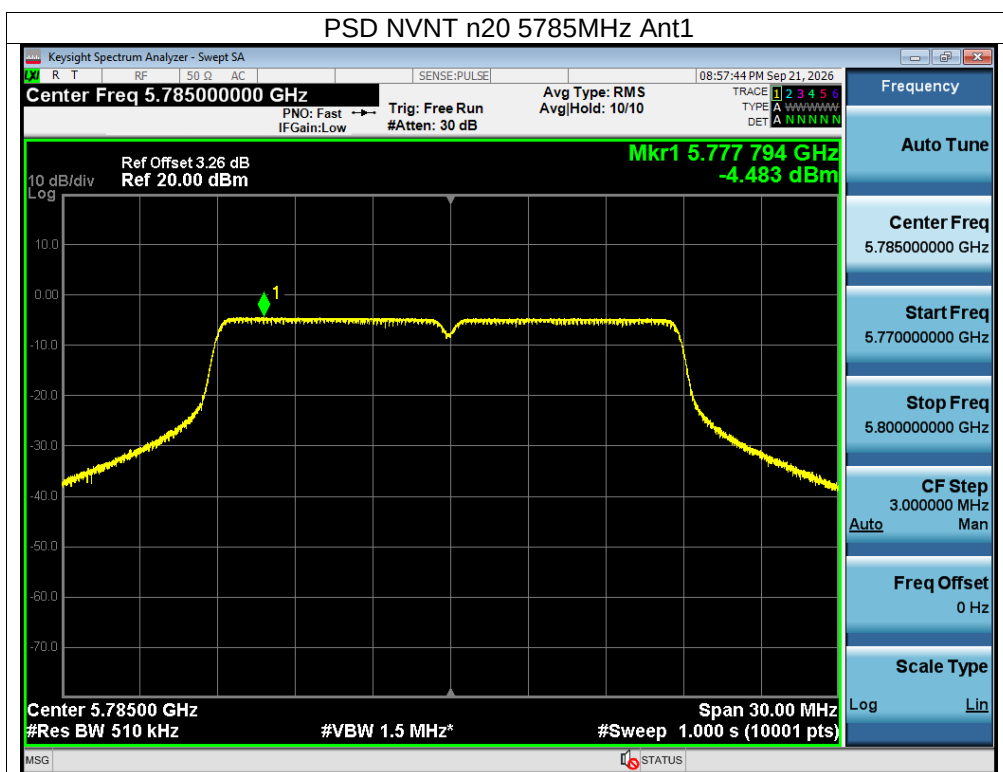
Temperature:	23 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-3.52	0.29	-3.23	30	Pass
NVNT	a	5785	-3.71	0.25	-3.46	30	Pass
NVNT	a	5825	-4.29	0.29	-4	30	Pass
NVNT	n20	5745	-4.34	0.16	-4.18	30	Pass
NVNT	n20	5785	-4.48	0.11	-4.37	30	Pass
NVNT	n20	5825	-5.17	0.18	-4.99	30	Pass
NVNT	n40	5755	-7.66	0.18	-7.48	30	Pass
NVNT	n40	5795	-7.86	0.12	-7.74	30	Pass
NVNT	ac20	5745	-3.43	0.12	-3.31	30	Pass
NVNT	ac20	5785	-4.45	0.1	-4.35	30	Pass
NVNT	ac20	5825	-4.69	0.2	-4.49	30	Pass
NVNT	ac40	5755	-5.8	0.11	-5.69	30	Pass
NVNT	ac40	5795	-7.87	0.11	-7.76	30	Pass
NVNT	ac80	5775	-11.76	0.1	-11.66	30	Pass
NVNT	ax20	5745	-3.65	0.13	-3.52	30	Pass
NVNT	ax20	5785	-4.2	0.19	-4.01	30	Pass
NVNT	ax20	5825	-4.87	0.18	-4.69	30	Pass
NVNT	ax40	5755	-7.81	0.13	-7.68	30	Pass
NVNT	ax40	5795	-7.96	0.22	-7.74	30	Pass
NVNT	ax80	5775	-11.96	0.14	-11.82	30	Pass

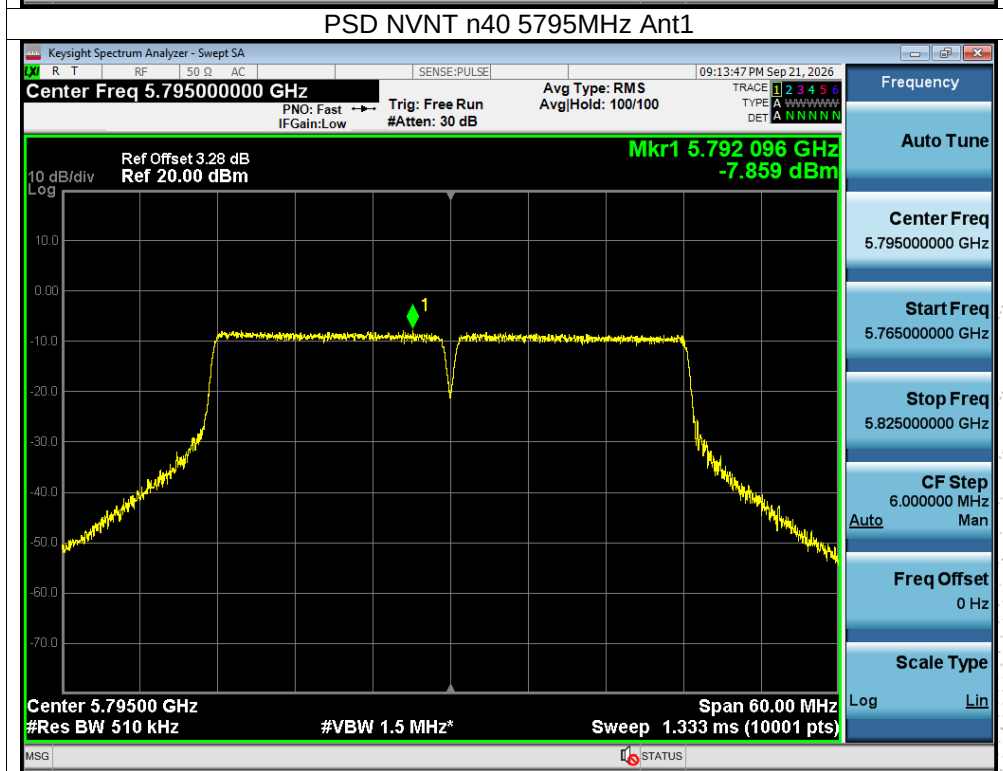
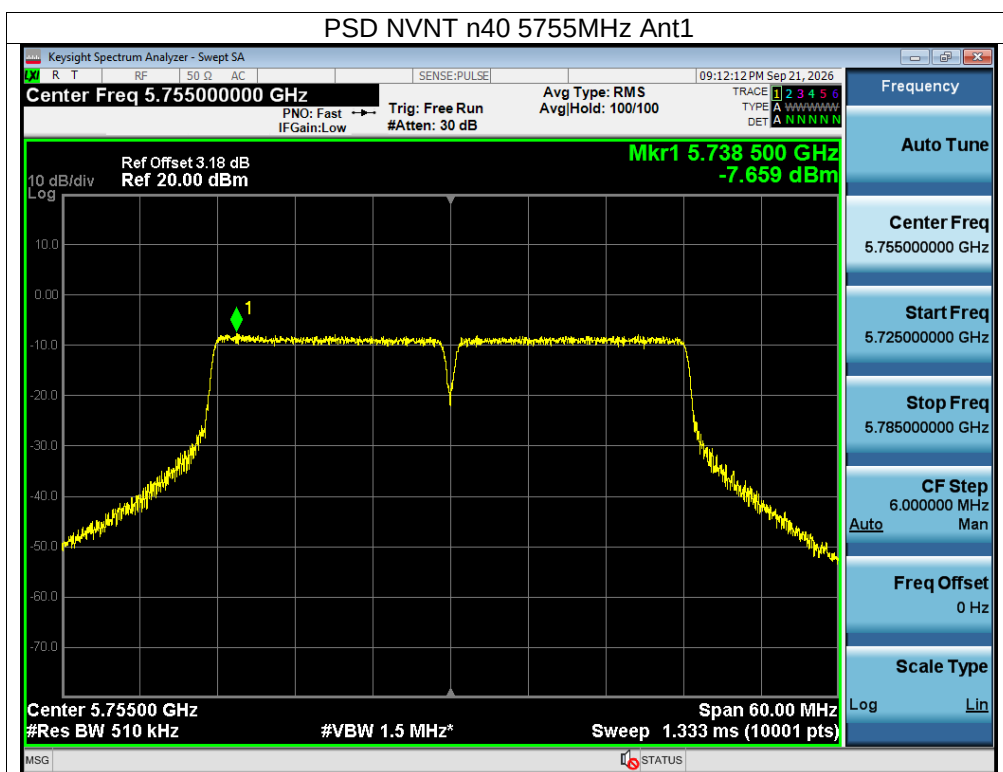
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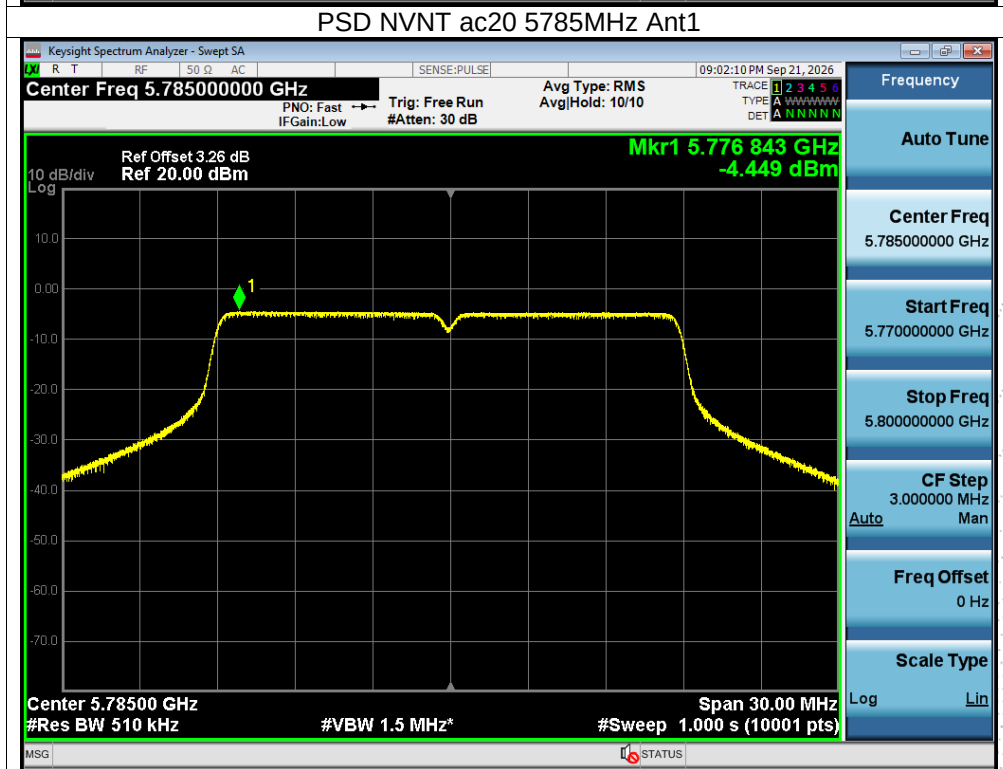
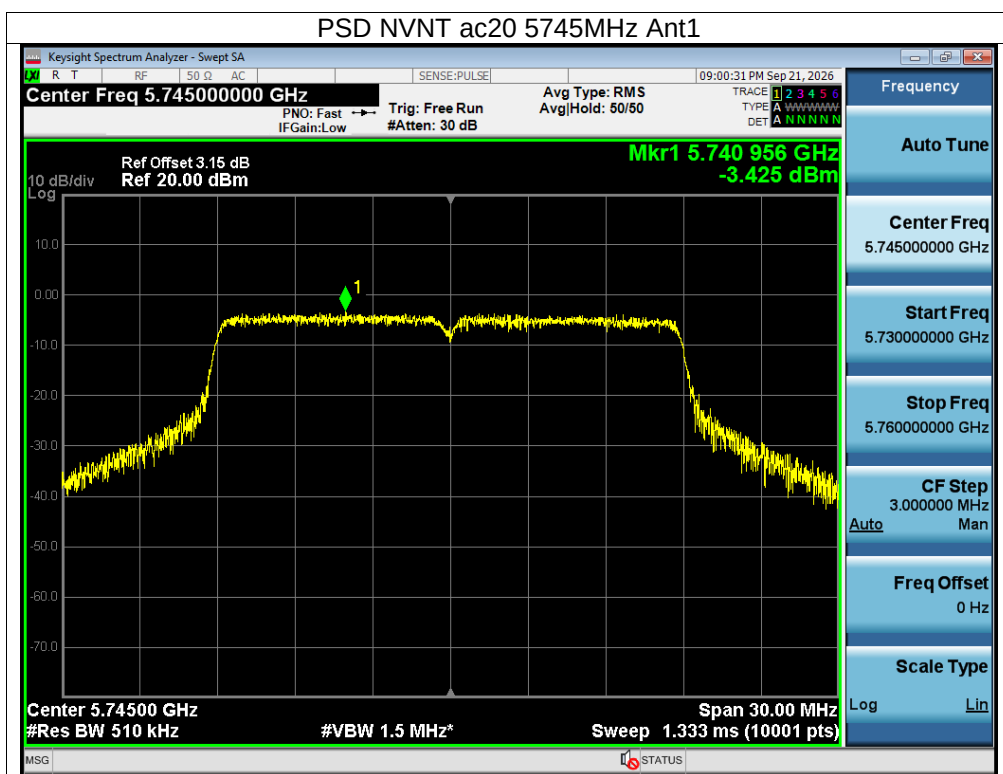


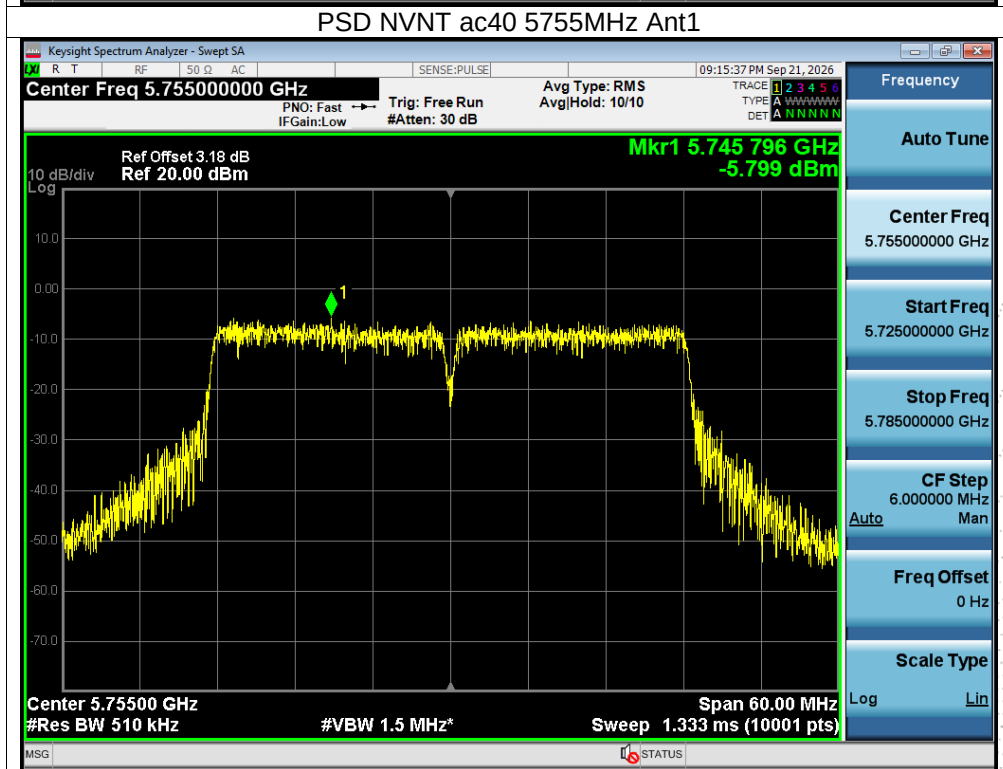
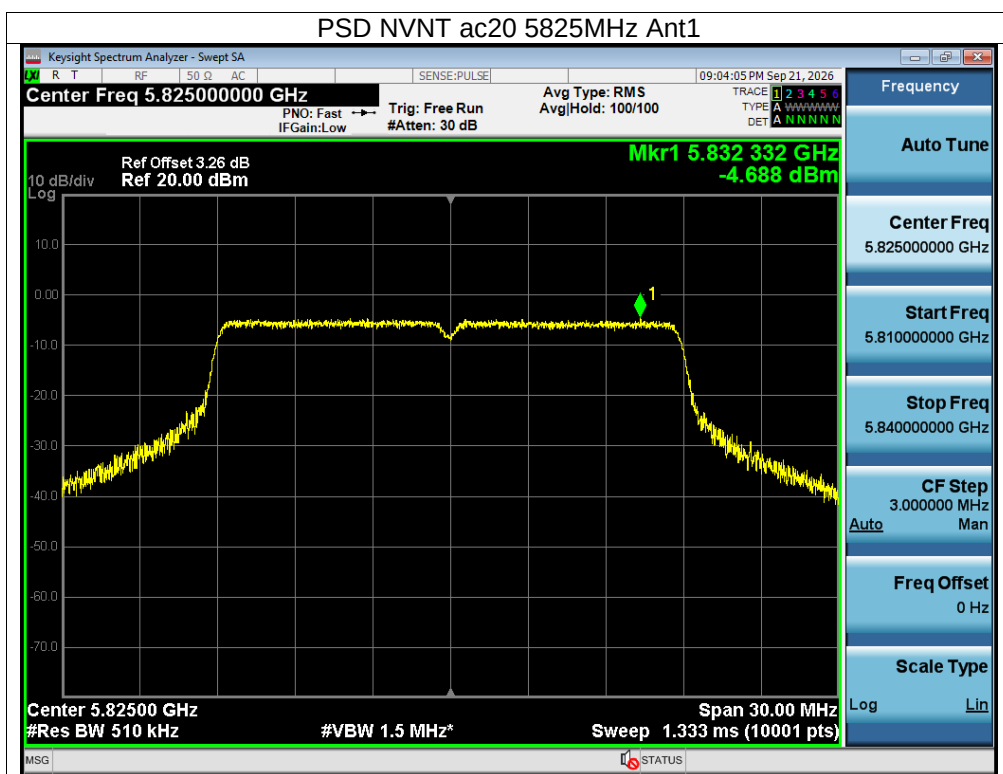


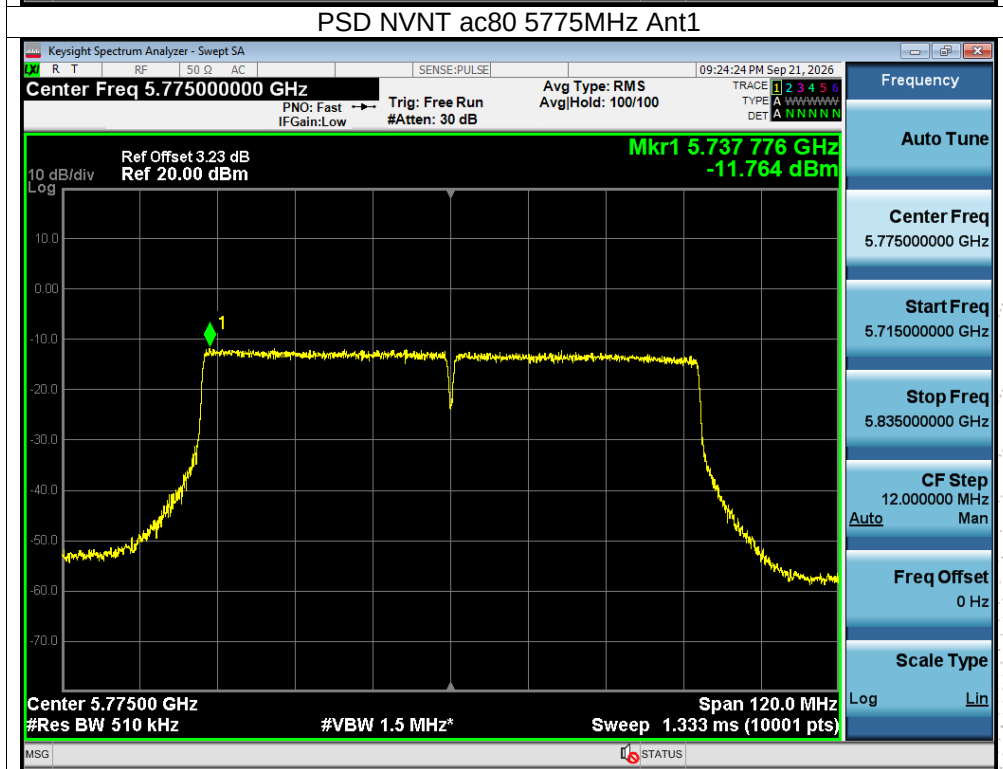
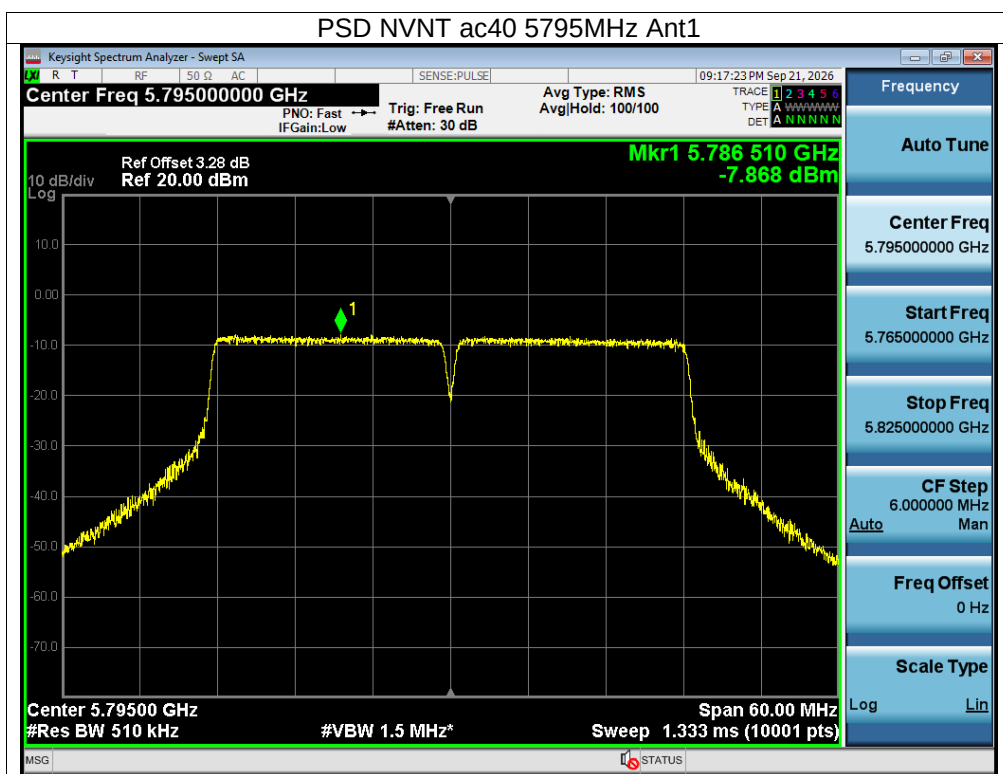


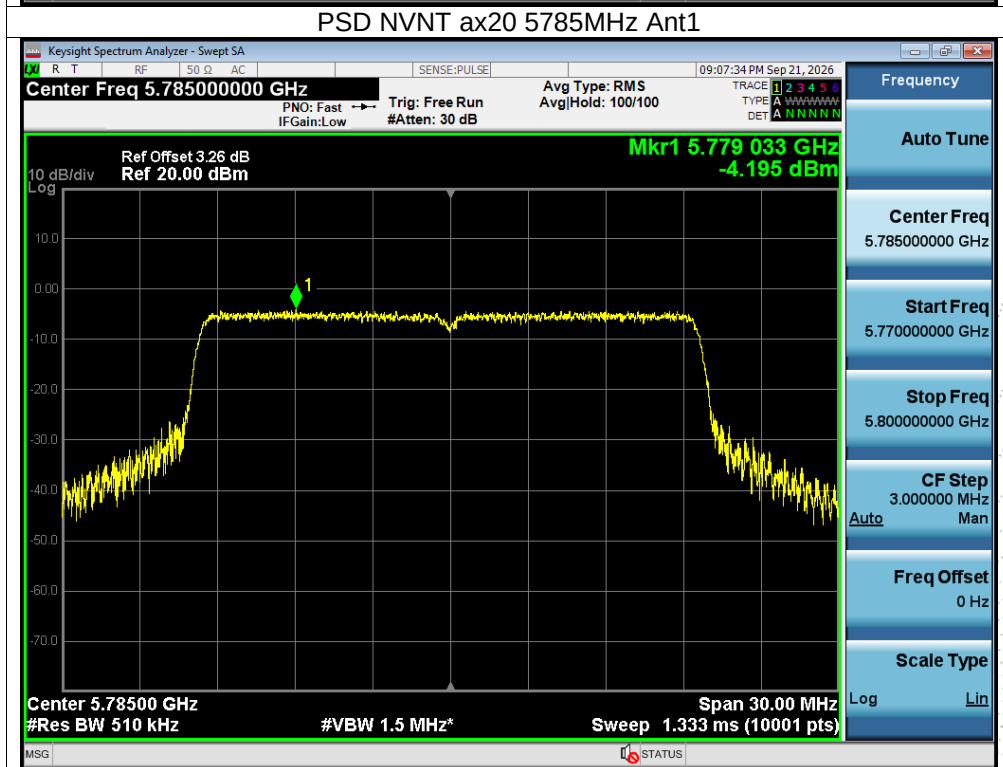
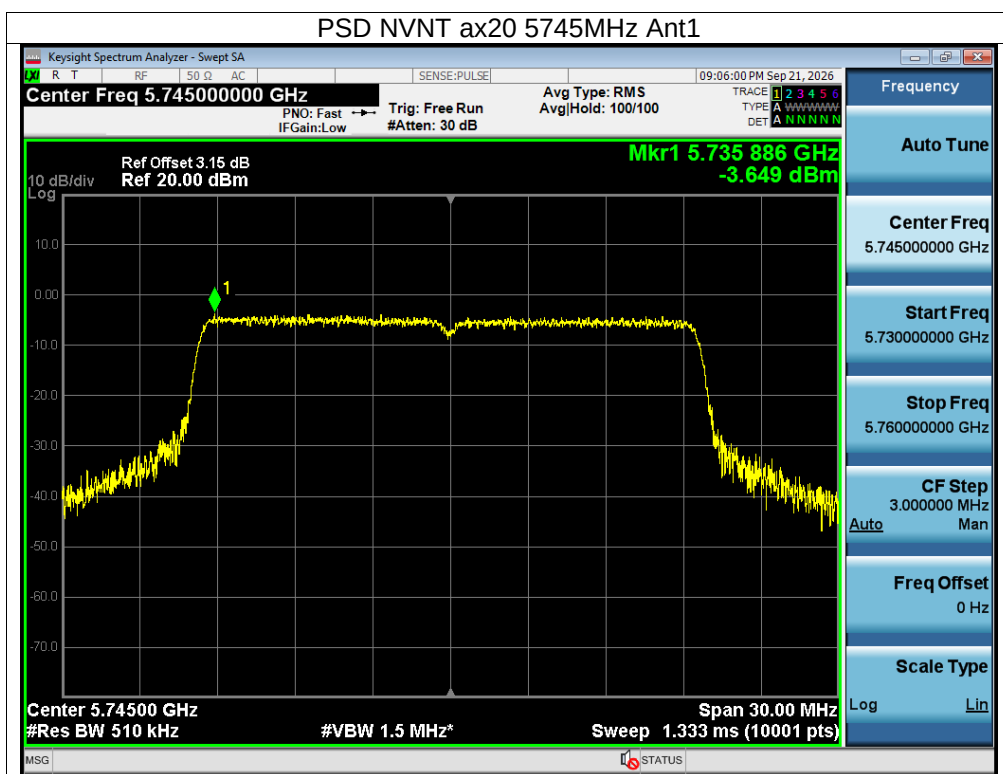
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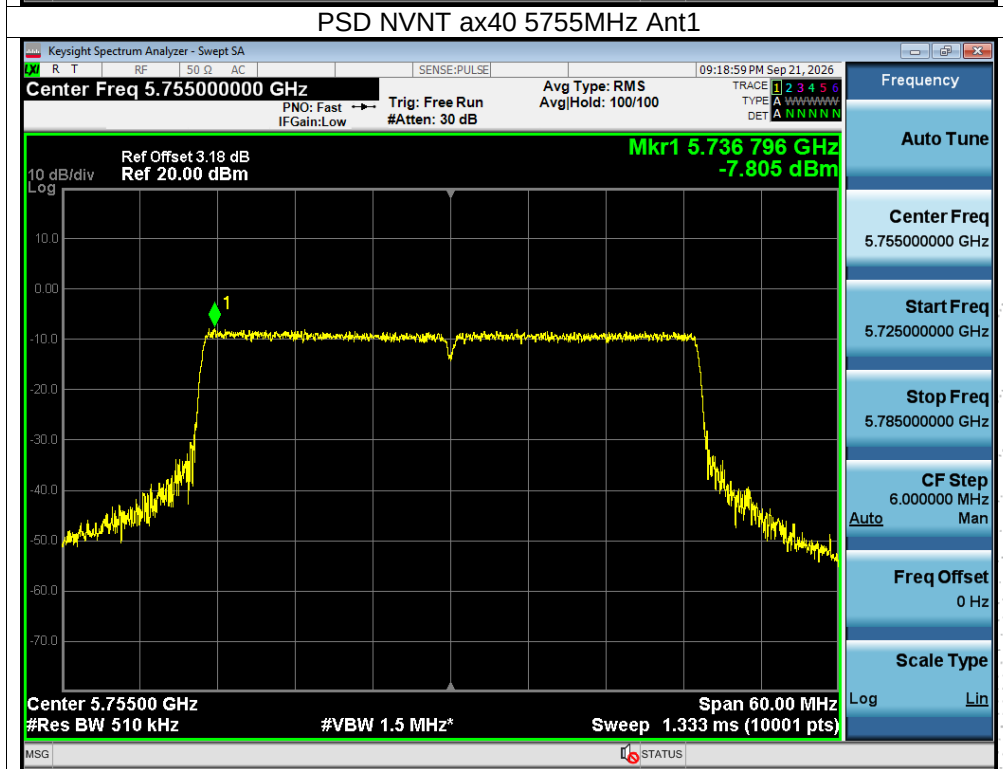
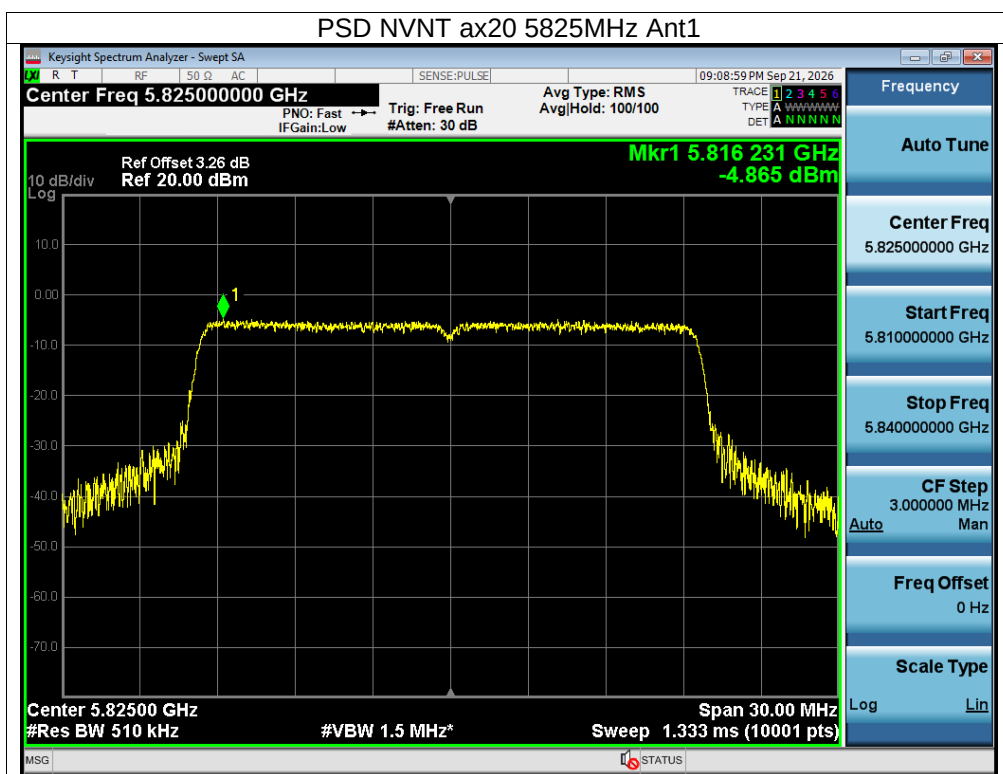




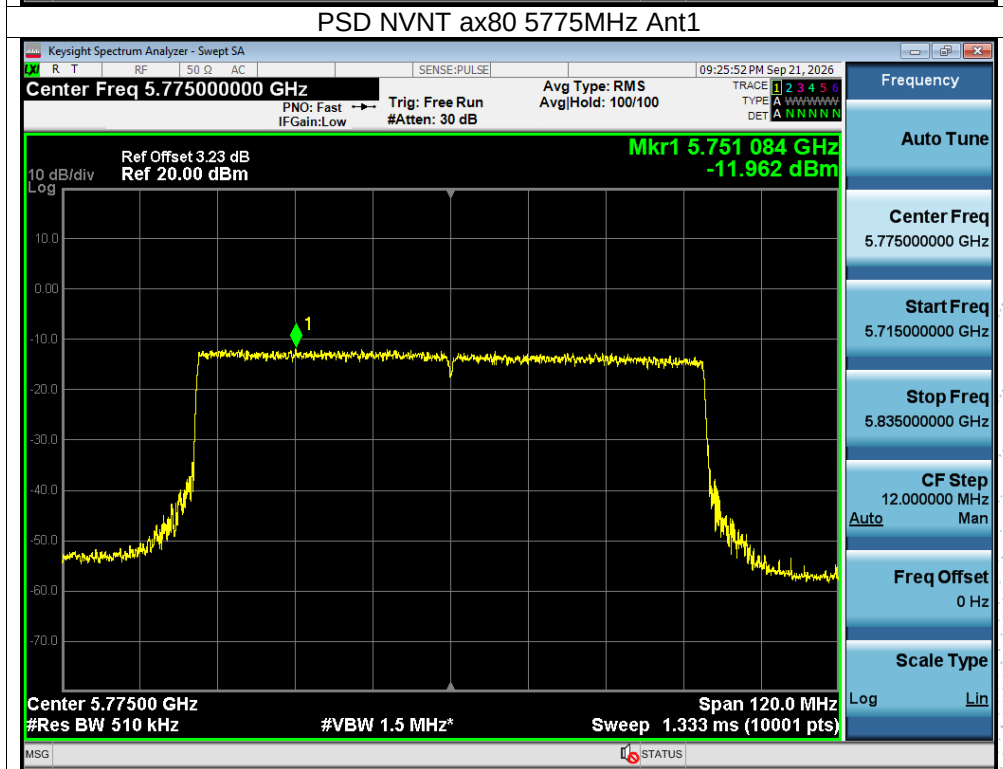
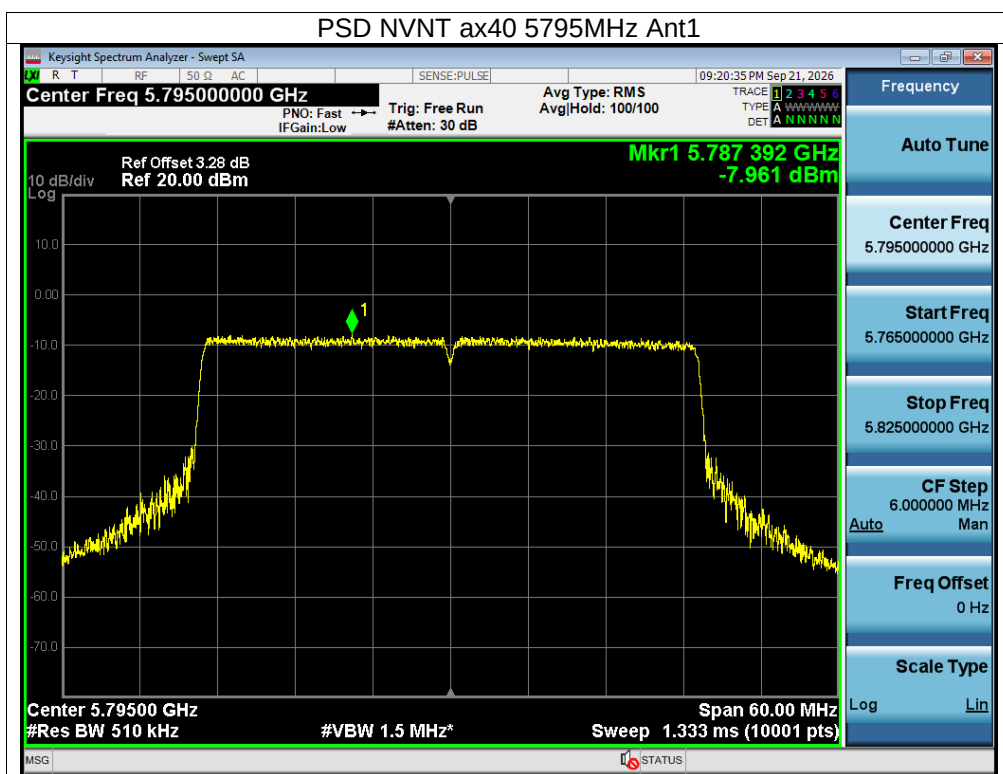






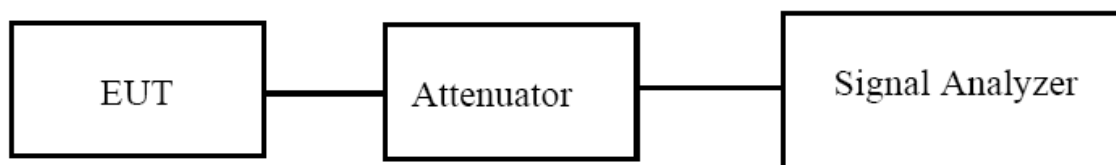


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9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

(1) For the band 5.15-5.25 GHz.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, 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.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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.

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 peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

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.

Emission bandwidth for the band 5.725 GHz to 5.85 GHz

The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

9.4 EUT Operating Conditions

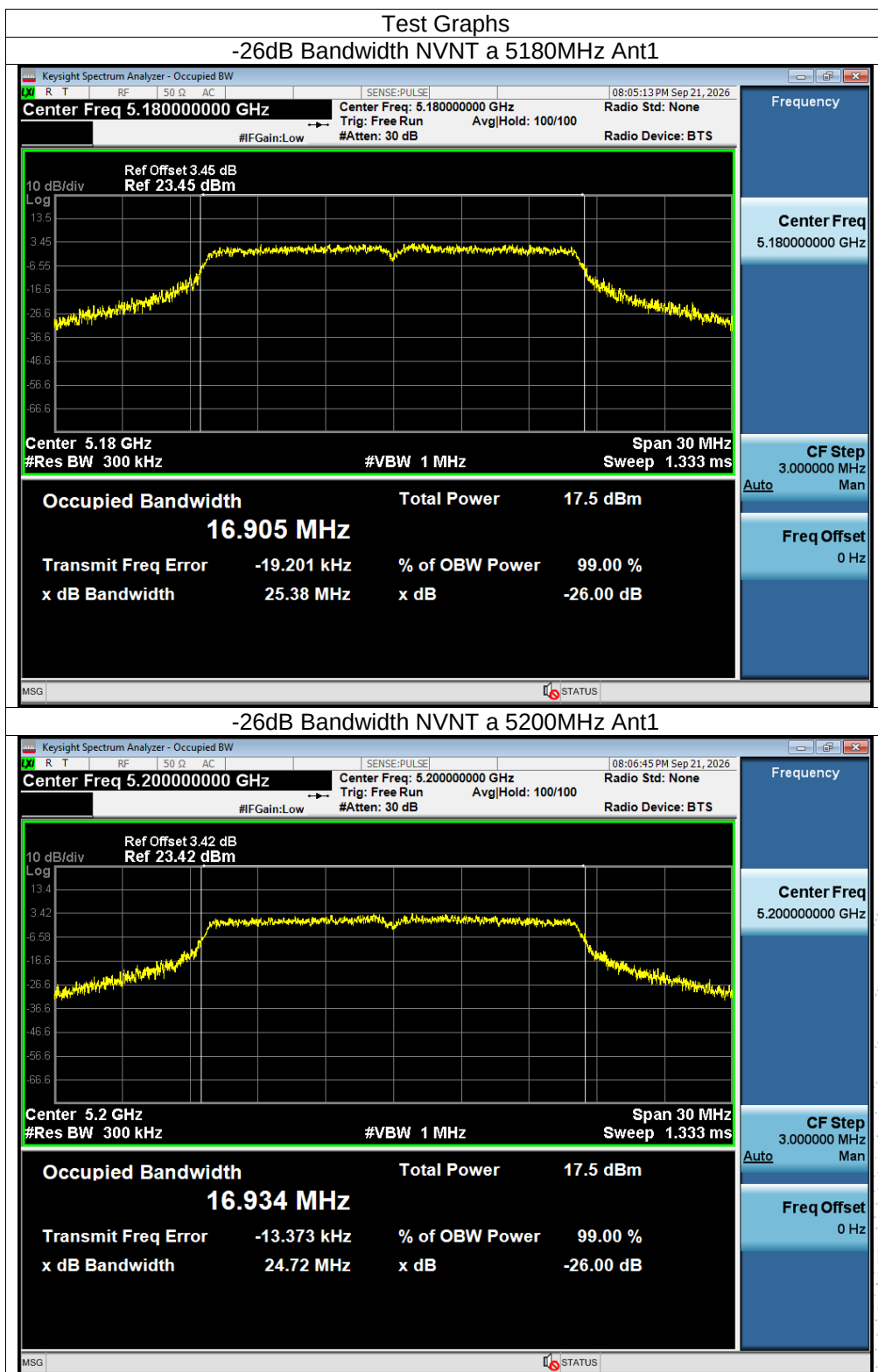
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

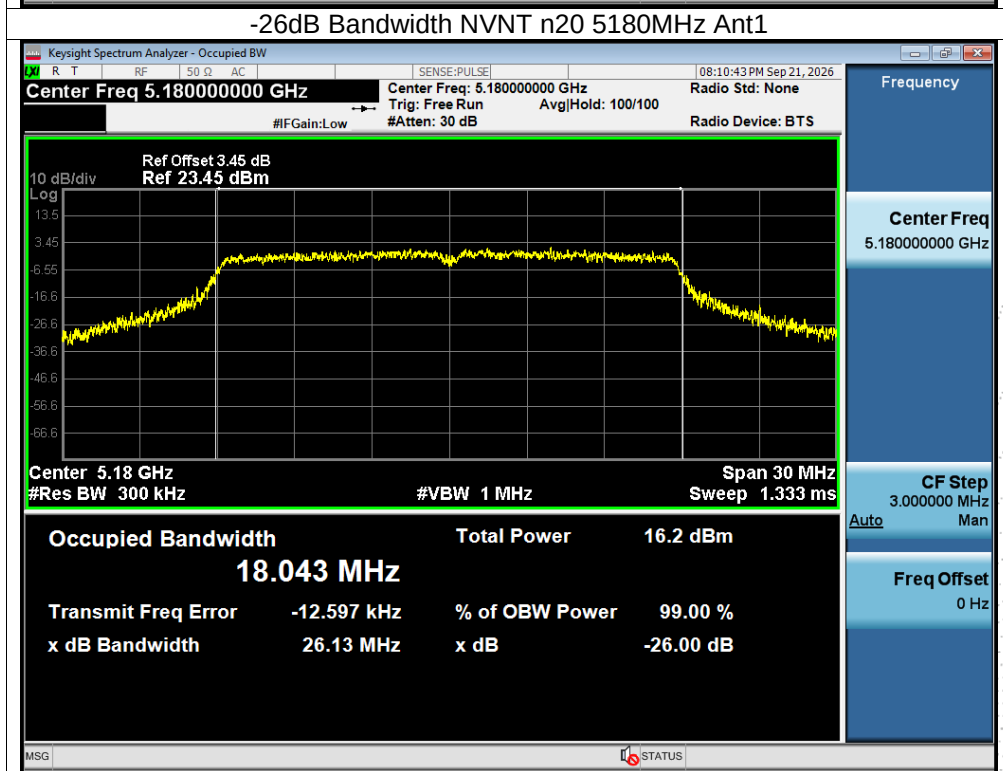
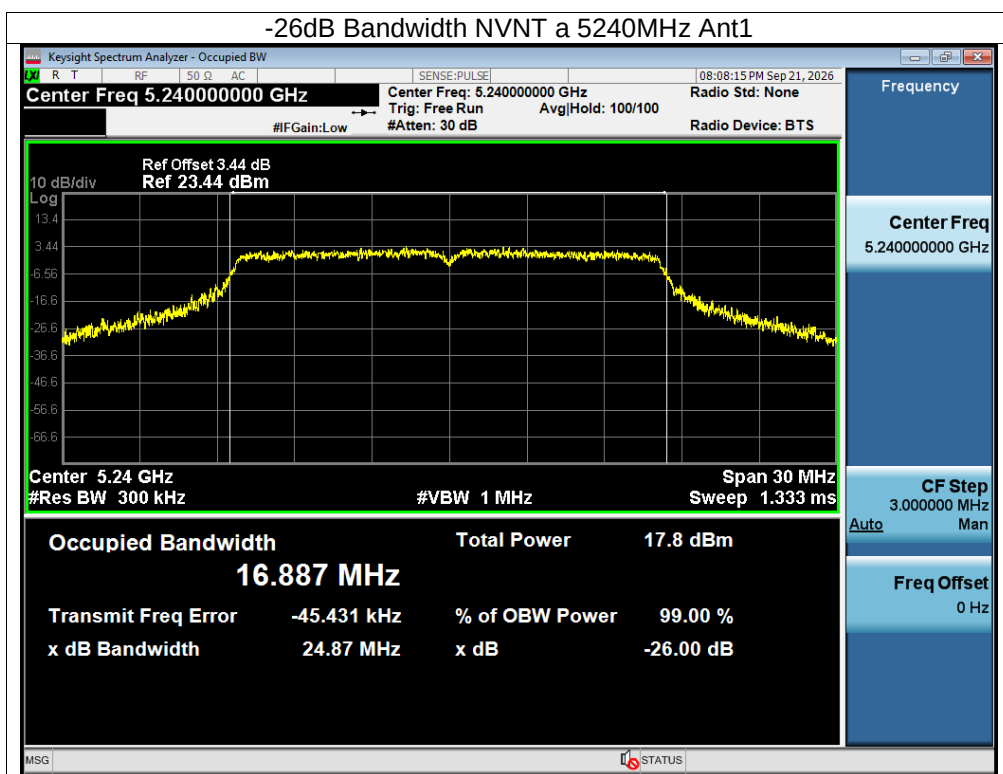
9.5 Test Result

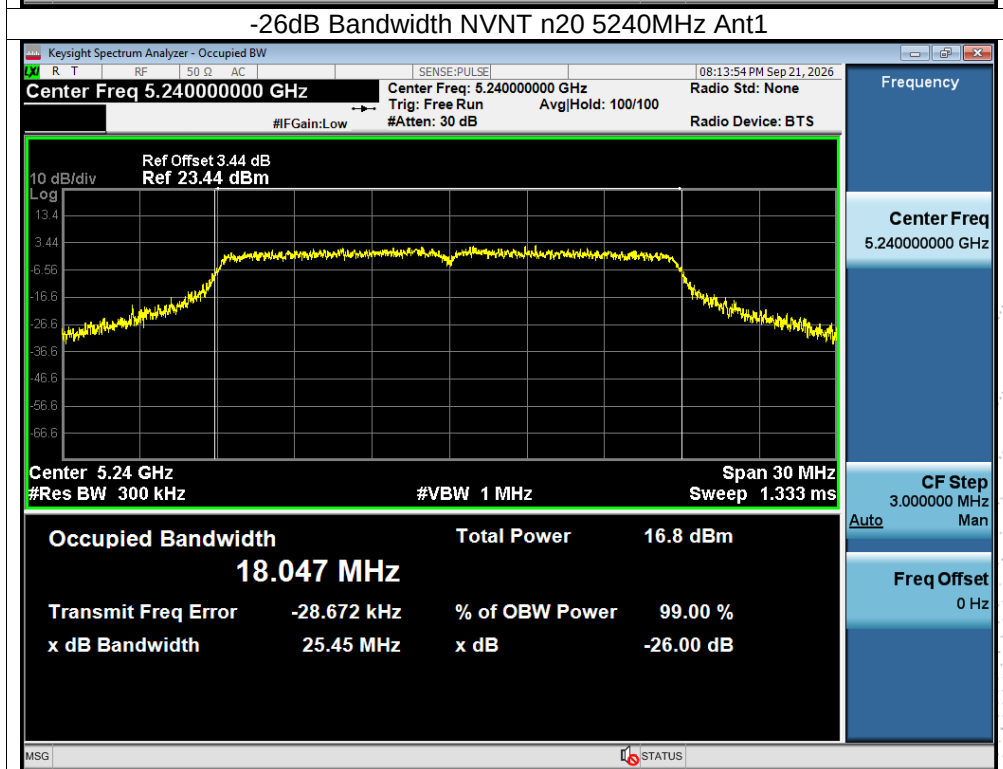
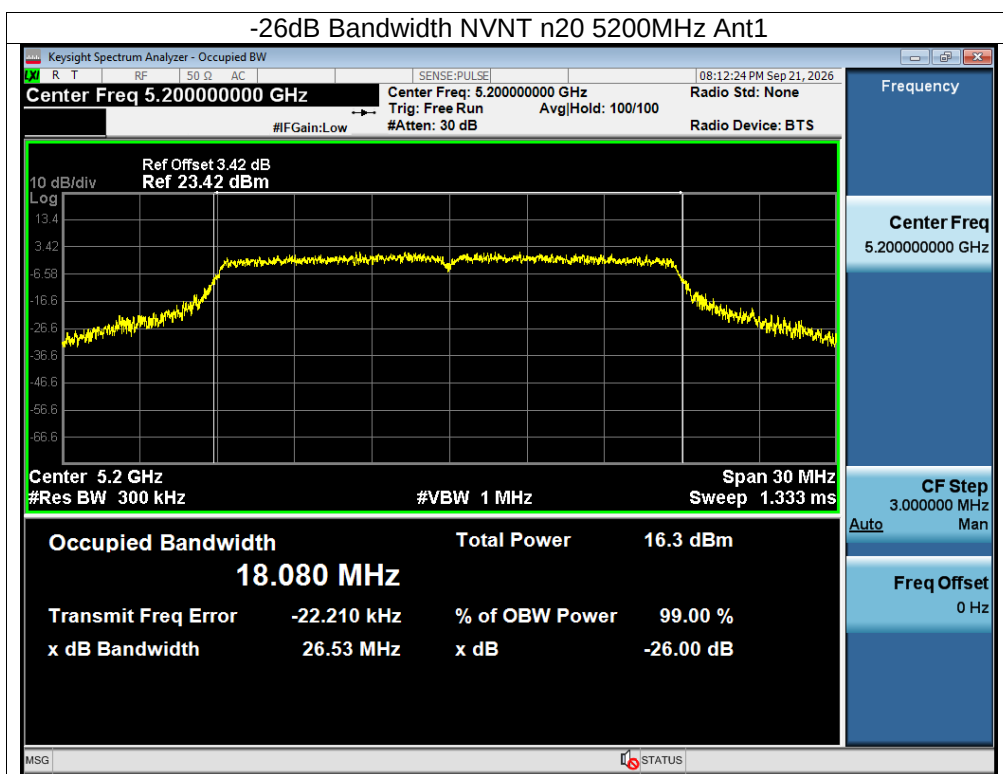
Temperature:	23 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	25.381	0.5	Pass
NVNT	a	5200	24.723	0.5	Pass
NVNT	a	5240	24.868	0.5	Pass
NVNT	n20	5180	26.129	0.5	Pass
NVNT	n20	5200	26.525	0.5	Pass
NVNT	n20	5240	25.453	0.5	Pass
NVNT	n40	5190	47.53	0.5	Pass
NVNT	n40	5230	46.811	0.5	Pass
NVNT	ac20	5180	26.282	0.5	Pass
NVNT	ac20	5200	27.3	0.5	Pass
NVNT	ac20	5240	26.464	0.5	Pass
NVNT	ac40	5190	46.669	0.5	Pass
NVNT	ac40	5230	47.111	0.5	Pass
NVNT	ac80	5210	88.304	0.5	Pass
NVNT	ax20	5180	25.462	0.5	Pass
NVNT	ax20	5200	27.268	0.5	Pass
NVNT	ax20	5240	24.512	0.5	Pass
NVNT	ax40	5190	45.457	0.5	Pass
NVNT	ax40	5230	45.966	0.5	Pass
NVNT	ax80	5210	87.891	0.5	Pass

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.631
NVNT	a	5200	16.663
NVNT	a	5240	16.621
NVNT	n20	5180	17.809
NVNT	n20	5200	17.842
NVNT	n20	5240	17.83
NVNT	n40	5190	36.41
NVNT	n40	5230	36.382
NVNT	ac20	5180	17.846
NVNT	ac20	5200	17.819
NVNT	ac20	5240	17.846
NVNT	ac40	5190	36.349
NVNT	ac40	5230	36.343
NVNT	ac80	5210	75.732
NVNT	ax20	5180	19.021
NVNT	ax20	5200	19.063
NVNT	ax20	5240	19.009
NVNT	ax40	5190	37.878
NVNT	ax40	5230	37.794
NVNT	ax80	5210	77.205







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