

TEST REPORT

Report No.: BCTC2507813407-4E

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY
CO.,LTD

Product Name: Smart Phone

Test Model: C69

Tested Date: 2025-06-27 to 2025-08-19
2025-07-28 to 2025-11-20

Issued Date: 2025-11-20

Shenzhen **BCTC** Testing Co., Ltd.



FCC ID: 2ANMU-C69

Product Name: Smart Phone

Trademark: OUKITEL

Model/Type reference: C69
C69 S, C69 Pro, C69 Plus, C69 Ultra, C69 GT

Prepared For: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

Address: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE,
GUANLAN, LONGHUA SHENZHEN, China

Manufacturer: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

Address: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE,
GUANLAN, LONGHUA SHENZHEN, China

Prepared By: 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

Sample Received Date: 2025-06-27

Sample tested Date: 2025-06-27 to 2025-08-19
2025-07-28 to 2025-11-20

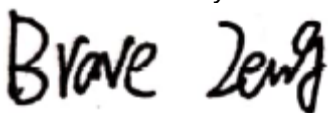
Issue Date: 2025-11-20

Report No.: BCTC2507813407-4E

Test Standards: FCC Part15 15.407
ANSI C63.10-2020
KDB 789033 D02 v02r01

Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

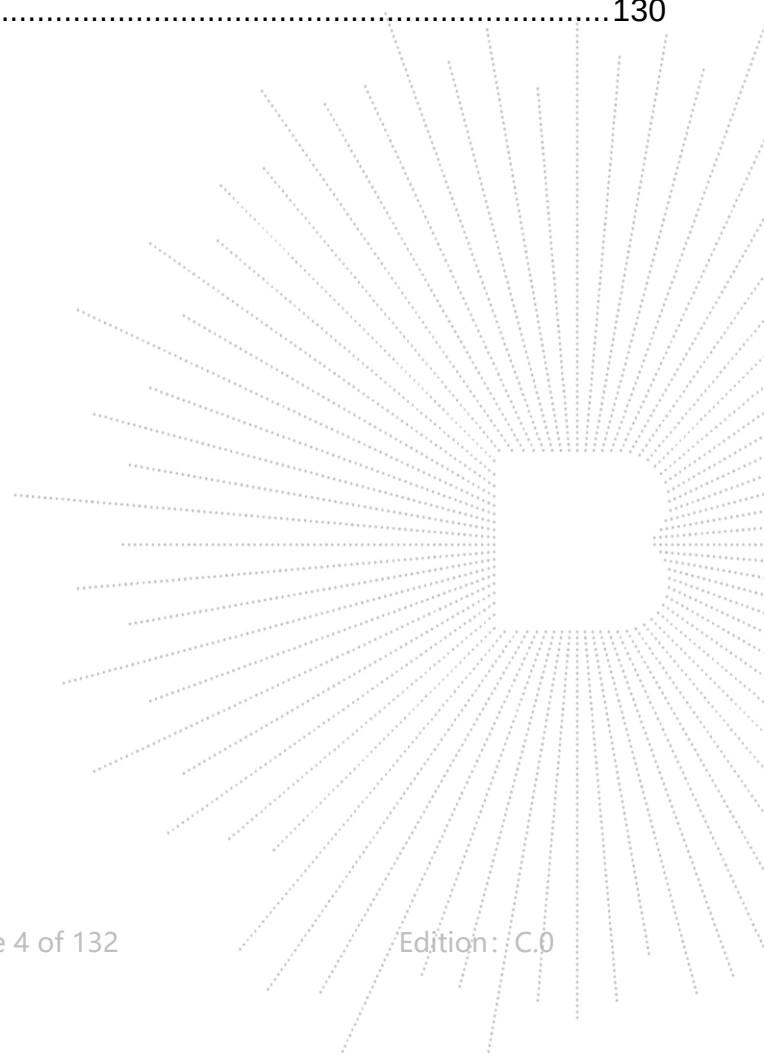
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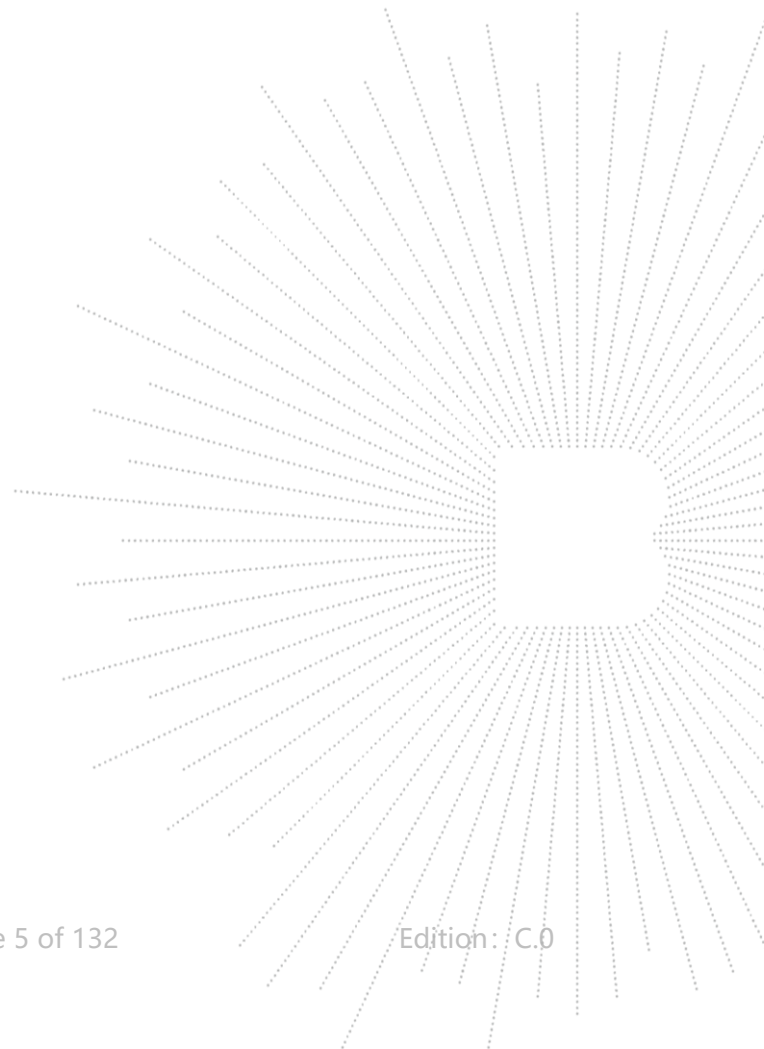
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2507813407-4E	2025-11-20	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)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	PASS
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: "N/A" means not applicable in this report.

Remark:

Based on the following changes in the original test report (BCTC2506730956-4E), No changes were made to the product.

Only changes Model/Type Reference, Test Instrument Used, the test result of Conducted Emissions & Radiated Emissions, EUT Photographs.

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(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
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:	C69 C69 S, C69 Pro, C69 Plus, C69 Ultra, C69 GT
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	J574_9230ED4FUM11_C20V
Software Version:	OUKITEL_C68_Plus_EEA_NFC_V06_20250814
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20)/ac(HT20); 5190-5230MHz for 802.11n(HT40)/ac(HT40); 5210MHz for 802.11 ac(HT80); 5745-5825 MHz for 802.11a/n(HT20)/ac(HT20); 5755-5795 MHz for 802.11n(HT40)/ac(HT40); 5775MHz for 802.11 ac(HT80);
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac; 4 channels for 802.11a/n20/ac20 in the 5180-5240MHz band ; 2 channels for 802.11 n40/ac40 in the 5190-5230MHz band ;
Number Of Channel	1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20/ac20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	Internal antenna 0.88 dBi
Antenna Gain:	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.
Ratings:	DC 9V from adapter/DC 3.93V from battery Model: HJ-PD18W-US
Adapter Information:	Input: 100-240V~50/60Hz 0.6A Output: DC 5.0V 3.0A 15.0W OR DC 9.0V 2.0A 18.0W OR DC 12.0V 1.5A 18.0W MAX

4.2 Test Setup Configuration

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

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Smart Phone	OUKITEK	C69	N/A	EUT
E-2	Adapter	/	HJ-PD18W-US	N/A	Auxiliary
E-3	TF card	SanDisk	32G	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0M	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

5.1G

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

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

5.8G

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

802.11ac (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 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	WIFI Link

Note:

1. 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	CMD		
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

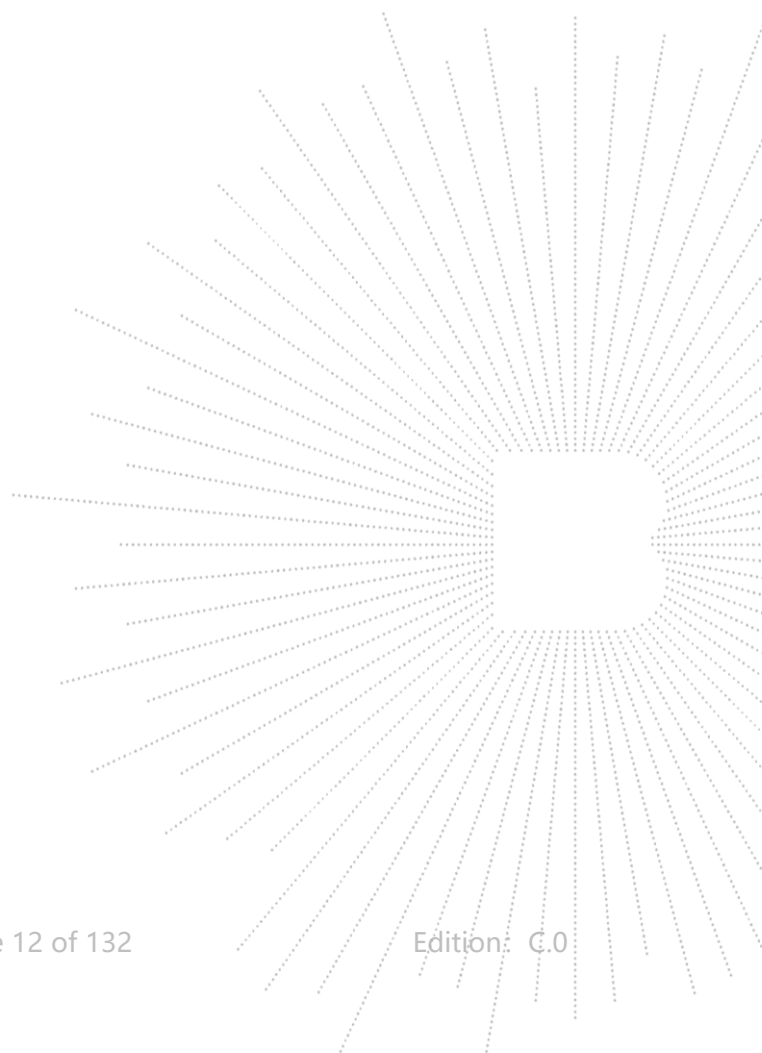
ISED CAB identifier: CN0017

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	VTSD9561-F	01323	May 14, 2025	May 13, 2026

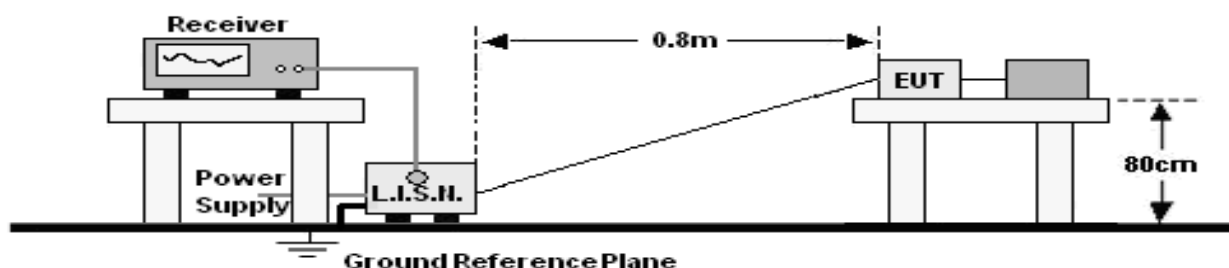
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 14, 2025	May 13, 2026
Power Sensor (AV)	Keysight	E9300A	\	May 14, 2025	May 13, 2026
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Communication test set	R&S	CMW500	126173	May 14, 2025	May 13, 2026
Radio frequency control box	MAIWEI	MW200-RFC B	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESR3P	101154	May 14, 2025	May 13, 2026
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 14, 2025	May 13, 2026
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 24, 2025	May 23, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 24, 2025	May 23, 2026
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	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 24, 2025	May 23, 2026
Horn Antenna(18G Hz-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:

- *Decreasing linearly with logarithm of frequency.
- 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

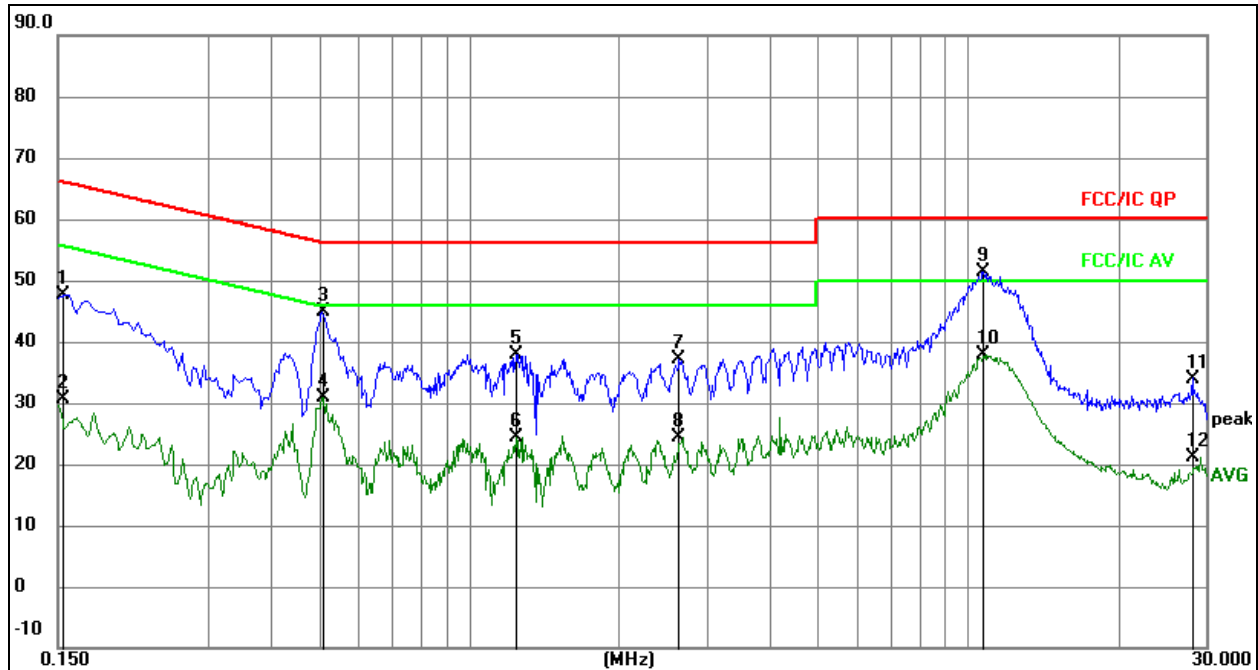
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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

Temperature:	24 °C	Relative Humidity:	50 %
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz

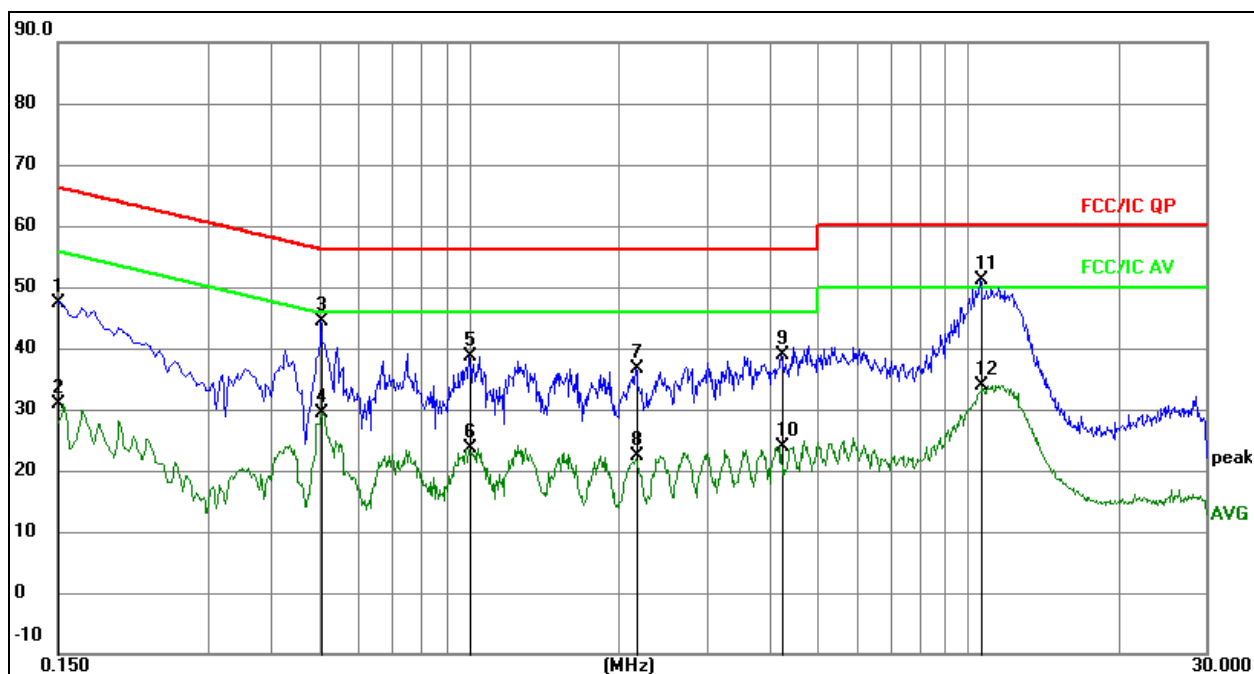


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1		0.1539	27.54	20.04	47.58	65.79	-18.21	QP
2		0.1539	10.49	20.04	30.53	55.79	-25.26	AVG
3		0.5074	24.91	20.07	44.98	56.00	-11.02	QP
4		0.5074	10.93	20.07	31.00	46.00	-15.00	AVG
5		1.2422	17.53	20.25	37.78	56.00	-18.22	QP
6		1.2422	4.20	20.25	24.45	46.00	-21.55	AVG
7		2.6360	16.77	20.32	37.09	56.00	-18.91	QP
8		2.6360	4.12	20.32	24.44	46.00	-21.56	AVG
9	*	10.6763	29.81	21.50	51.31	60.00	-8.69	QP
10		10.6763	16.47	21.50	37.97	50.00	-12.03	AVG
11		28.1520	9.42	24.58	34.00	60.00	-26.00	QP
12		28.1520	-3.50	24.58	21.08	50.00	-28.92	AVG

Temperature:	24 °C	Relative Humidity:	50 %
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

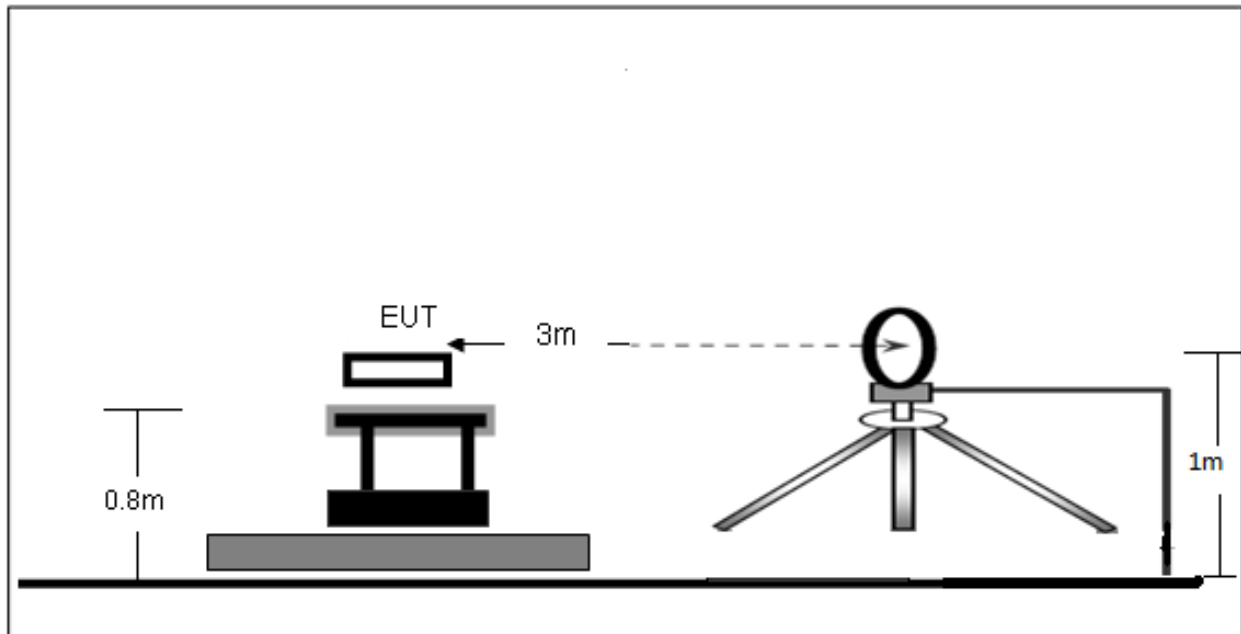
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	27.45	20.04	47.49	66.00	-18.51	QP
2		0.1500	10.74	20.04	30.78	56.00	-25.22	AVG
3		0.5055	24.37	20.07	44.44	56.00	-11.56	QP
4		0.5055	9.32	20.07	29.39	46.00	-16.61	AVG
5		1.0004	18.45	20.27	38.72	56.00	-17.28	QP
6		1.0004	3.27	20.27	23.54	46.00	-22.46	AVG
7		2.1614	16.43	20.21	36.64	56.00	-19.36	QP
8		2.1614	2.17	20.21	22.38	46.00	-23.62	AVG
9		4.2270	18.13	20.63	38.76	56.00	-17.24	QP
10		4.2270	3.35	20.63	23.98	46.00	-22.02	AVG
11	*	10.5945	29.75	21.48	51.23	60.00	-8.77	QP
12		10.5945	12.48	21.48	33.96	50.00	-16.04	AVG

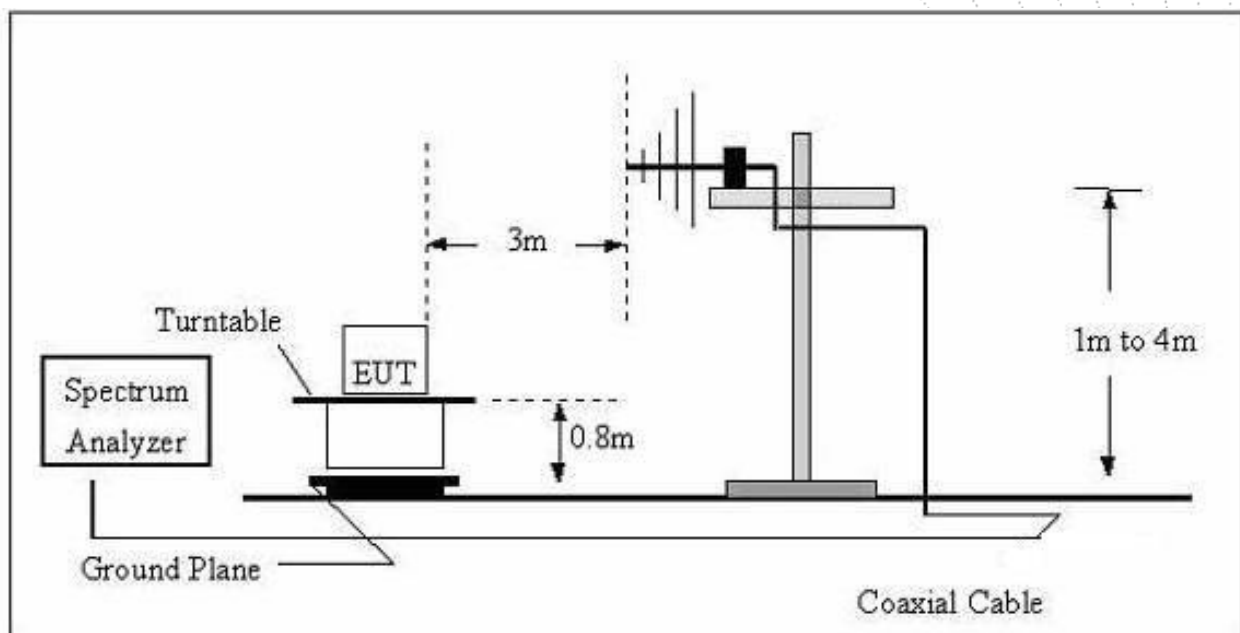
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

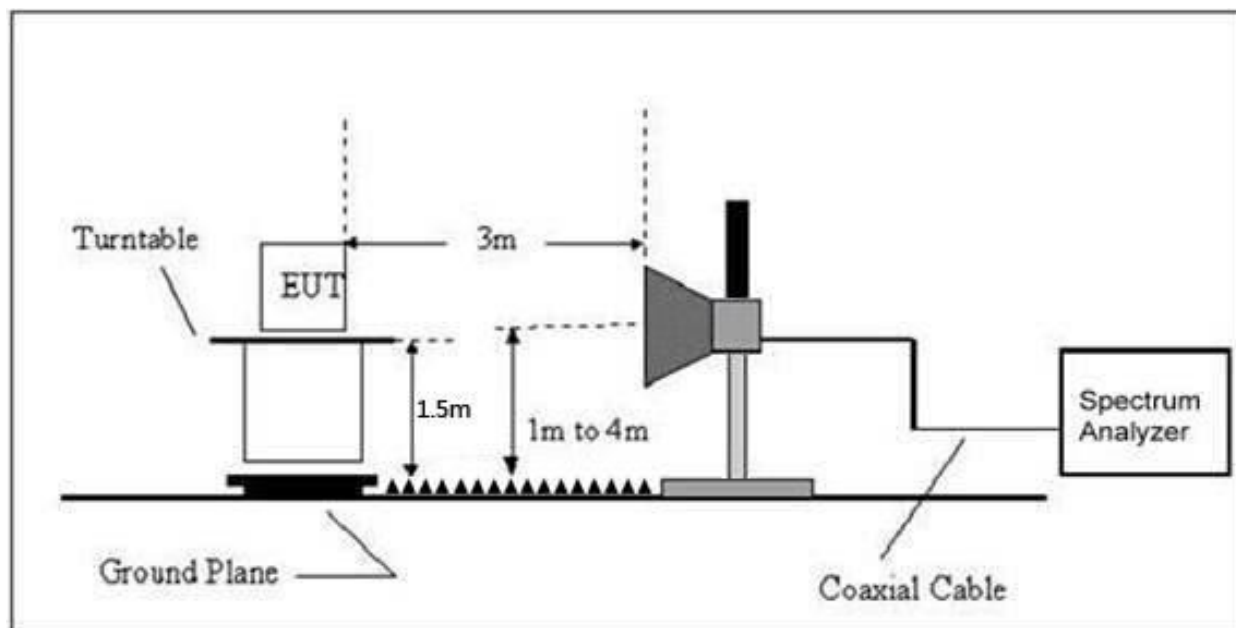
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 C63.10-2020. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 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:	24 °C	Relative Humidity:	65 %
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	--

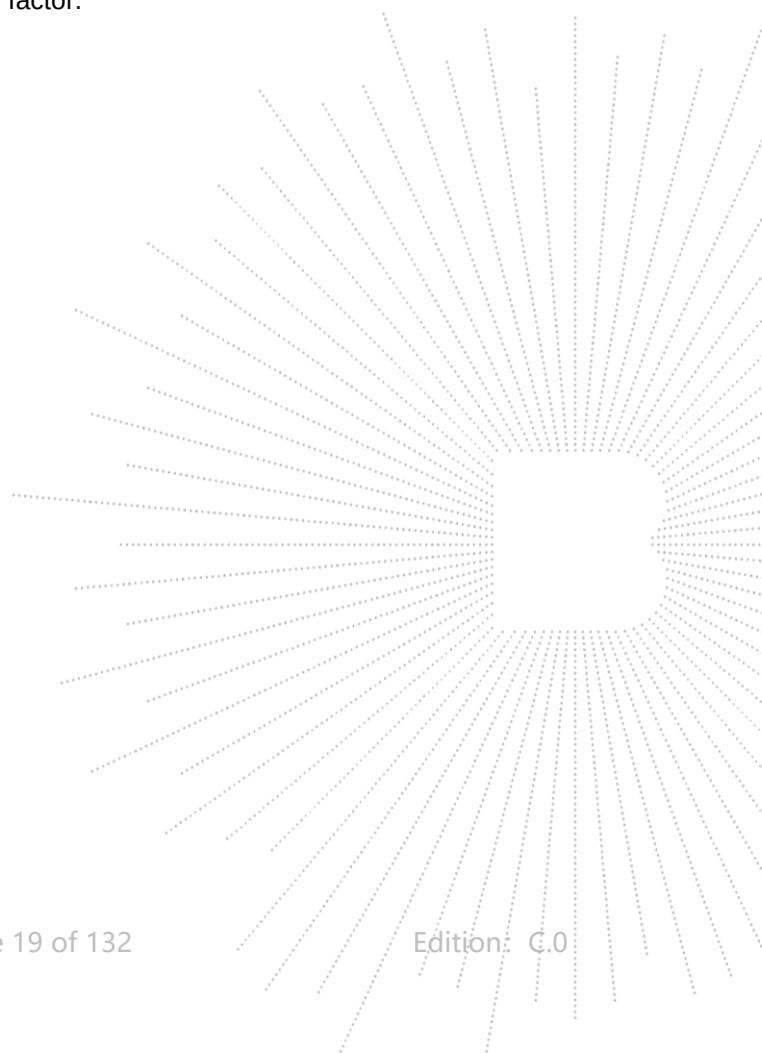
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

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

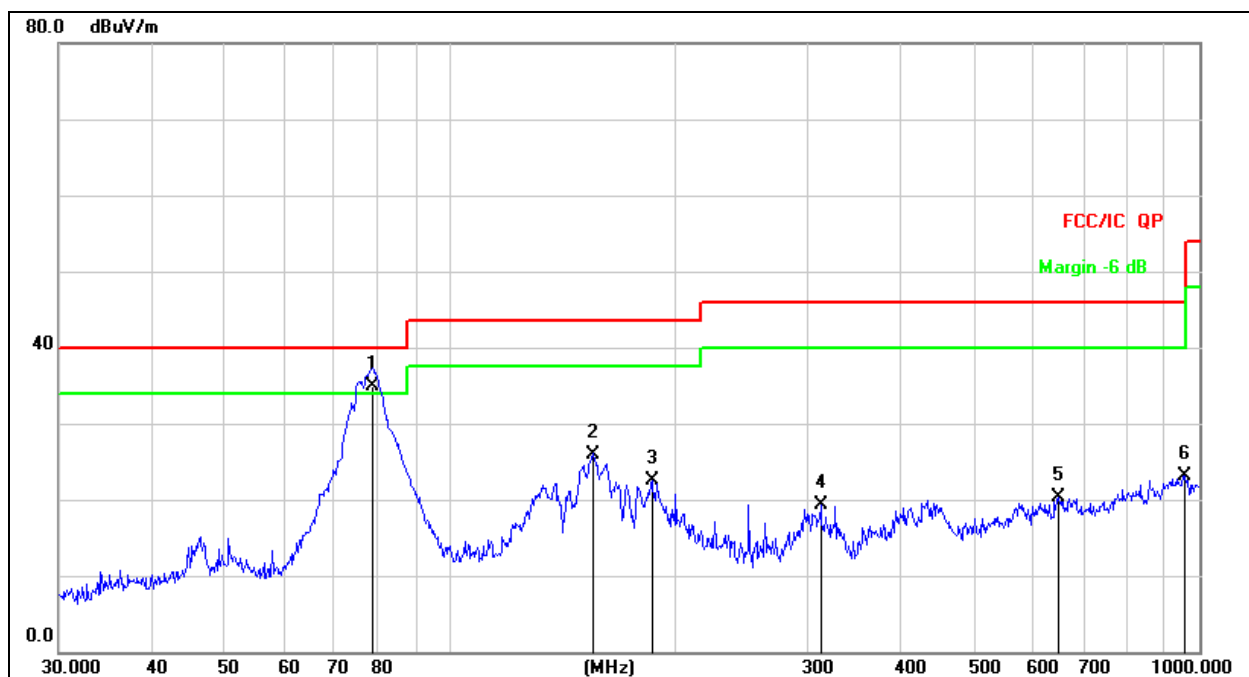
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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



Between 30MHz – 1GHz

Temperature:	24 °C	Relative Humidity:	65 %
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage:	AC 120V/60Hz

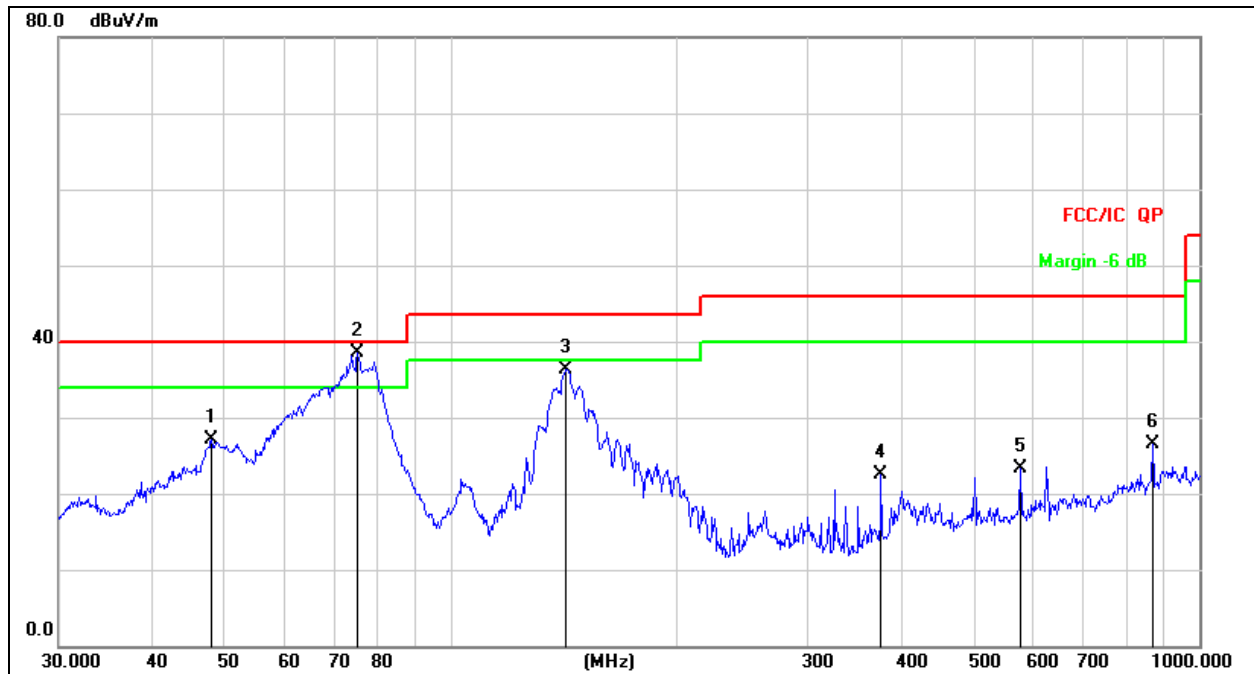


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	78.6888	50.85	-15.98	34.87	40.00	-5.13	QP
2		154.8204	43.29	-17.29	26.00	43.50	-17.50	QP
3		185.7882	37.85	-15.31	22.54	43.50	-20.96	QP
4		312.1794	31.00	-11.68	19.32	46.00	-26.68	QP
5		647.3856	25.55	-5.16	20.39	46.00	-25.61	QP
6		955.4381	23.89	-0.80	23.09	46.00	-22.91	QP

Temperature:	24 °C	Relative Humidity:	65 %
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage:	AC 120V/60Hz



Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1		47.9938	40.16	-13.13	27.03	40.00	-12.97	QP
2	*	75.1821	54.60	-16.19	38.41	40.00	-1.59	QP
3		142.8241	53.47	-17.19	36.28	43.50	-7.22	QP
4		375.9384	32.44	-10.03	22.41	46.00	-23.59	QP
5		576.6443	29.11	-5.87	23.24	46.00	-22.76	QP
6		866.0878	28.19	-1.74	26.45	46.00	-19.55	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a
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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	4434.180	72.67	-20.73	51.93	68.20	-16.27	PK
Vertical	4434.180	59.17	-20.73	38.44	54.00	-15.56	AV
Vertical	10360.010	61.62	-9.36	52.26	68.20	-15.94	PK
Vertical	10360.010	49.12	-9.36	39.76	54.00	-14.24	AV
Vertical	15540.125	60.13	-7.84	52.29	74.00	-21.71	PK
Vertical	15540.125	49.22	-7.84	41.38	54.00	-12.62	AV
Horizontal	4434.109	70.52	-20.73	49.79	68.20	-18.41	PK
Horizontal	4434.109	59.57	-20.73	38.84	54.00	-15.16	AV
Horizontal	10360.019	62.72	-9.36	53.36	68.20	-14.84	PK
Horizontal	10360.019	49.14	-9.36	39.78	54.00	-14.22	AV
Horizontal	15540.129	62.65	-7.84	54.81	74.00	-19.19	PK
Horizontal	15540.129	49.24	-7.84	41.40	54.00	-12.60	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.184	72.07	-20.42	51.66	74.00	-22.34	PK
Vertical	4592.184	59.31	-20.42	38.89	54.00	-15.11	AV
Vertical	10400.191	62.77	-9.30	53.47	68.20	-14.73	PK
Vertical	10400.191	49.35	-9.30	40.05	54.00	-13.95	AV
Vertical	15600.128	64.04	-7.82	56.22	74.00	-17.78	PK
Vertical	15600.128	49.71	-7.82	41.89	54.00	-12.11	AV
Horizontal	4592.099	71.28	-20.42	50.87	74.00	-23.13	PK
Horizontal	4592.099	59.33	-20.42	38.91	54.00	-15.09	AV
Horizontal	10400.144	60.23	-9.30	50.93	68.20	-17.27	PK
Horizontal	10400.144	49.68	-9.30	40.38	54.00	-13.62	AV
Horizontal	15600.029	64.84	-7.82	57.02	74.00	-16.98	PK
Horizontal	15600.029	49.28	-7.82	41.46	54.00	-12.54	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.010	74.25	-20.12	54.13	74.00	-19.87	PK
Vertical	4739.010	59.33	-20.12	39.21	54.00	-14.79	AV
Vertical	10480.003	62.57	-9.18	53.39	68.20	-14.81	PK
Vertical	10480.003	49.10	-9.18	39.92	54.00	-14.08	AV
Vertical	15720.116	60.74	-7.78	52.96	74.00	-21.04	PK
Vertical	15720.116	49.93	-7.78	42.15	54.00	-11.85	AV
Horizontal	4739.145	72.57	-20.12	52.45	74.00	-21.55	PK
Horizontal	4739.145	59.75	-20.12	39.63	54.00	-14.37	AV
Horizontal	10480.049	62.71	-9.18	53.53	68.20	-14.67	PK
Horizontal	10480.049	49.13	-9.18	39.95	54.00	-14.05	AV
Horizontal	15720.110	62.86	-7.78	55.08	74.00	-18.92	PK
Horizontal	15720.110	49.07	-7.78	41.29	54.00	-12.71	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(5.1G) - 802.11n-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	4434.076	71.14	-20.73	50.40	68.20	-17.80	PK
Vertical	4434.076	59.75	-20.73	39.02	54.00	-14.98	AV
Vertical	10360.118	61.26	-9.36	51.90	68.20	-16.30	PK
Vertical	10360.118	49.25	-9.36	39.89	54.00	-14.11	AV
Vertical	15540.088	64.81	-7.84	56.97	74.00	-17.03	PK
Vertical	15540.088	49.37	-7.84	41.53	54.00	-12.47	AV
Horizontal	4434.177	71.22	-20.73	50.49	68.20	-17.71	PK
Horizontal	4434.177	59.22	-20.73	38.49	54.00	-15.51	AV
Horizontal	10360.024	61.81	-9.36	52.45	68.20	-15.75	PK
Horizontal	10360.024	49.46	-9.36	40.10	54.00	-13.90	AV
Horizontal	15540.138	64.39	-7.84	56.55	74.00	-17.45	PK
Horizontal	15540.138	49.29	-7.84	41.45	54.00	-12.55	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.025	74.23	-20.42	53.82	74.00	-20.18	PK
Vertical	4592.025	59.37	-20.42	38.95	54.00	-15.05	AV
Vertical	10400.171	61.59	-9.30	52.29	68.20	-15.91	PK
Vertical	10400.171	49.18	-9.30	39.88	54.00	-14.12	AV
Vertical	15600.174	63.59	-7.82	55.77	74.00	-18.23	PK
Vertical	15600.174	49.40	-7.82	41.58	54.00	-12.42	AV
Horizontal	4592.033	72.12	-20.42	51.71	74.00	-22.29	PK
Horizontal	4592.033	59.60	-20.42	39.18	54.00	-14.82	AV
Horizontal	10400.059	64.71	-9.30	55.41	68.20	-12.79	PK
Horizontal	10400.059	49.29	-9.30	39.99	54.00	-14.01	AV
Horizontal	15600.135	61.13	-7.82	53.31	74.00	-20.69	PK
Horizontal	15600.135	49.90	-7.82	42.08	54.00	-11.92	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.153	73.83	-20.12	53.70	74.00	-20.30	PK
Vertical	4739.153	59.68	-20.12	39.56	54.00	-14.44	AV
Vertical	10480.010	63.83	-9.18	54.65	68.20	-13.55	PK
Vertical	10480.010	49.13	-9.18	39.95	54.00	-14.05	AV
Vertical	15720.122	61.22	-7.78	53.44	74.00	-20.56	PK
Vertical	15720.122	49.95	-7.78	42.17	54.00	-11.83	AV
Horizontal	4739.002	72.88	-20.12	52.76	74.00	-21.24	PK
Horizontal	4739.002	59.07	-20.12	38.95	54.00	-15.05	AV
Horizontal	10480.157	64.33	-9.18	55.15	68.20	-13.05	PK
Horizontal	10480.157	49.81	-9.18	40.63	54.00	-13.37	AV
Horizontal	15720.170	62.72	-7.78	54.94	74.00	-19.06	PK
Horizontal	15720.170	49.02	-7.78	41.24	54.00	-12.76	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	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	4434.165	73.57	-20.73	52.84	68.20	-15.36	PK
Vertical	4434.165	59.28	-20.73	38.54	54.00	-15.46	AV
Vertical	10380.014	63.09	-9.33	53.76	68.20	-14.44	PK
Vertical	10380.014	49.58	-9.33	40.25	54.00	-13.75	AV
Vertical	15570.156	62.64	-7.83	54.81	74.00	-19.19	PK
Vertical	15570.156	49.25	-7.83	41.42	54.00	-12.58	AV
Horizontal	4434.115	73.03	-20.73	52.29	74.00	-21.71	PK
Horizontal	4434.115	59.30	-20.73	38.56	54.00	-15.44	AV
Horizontal	10380.099	60.72	-9.33	51.39	68.20	-16.81	PK
Horizontal	10380.099	49.26	-9.33	39.93	54.00	-14.07	AV
Horizontal	15570.054	64.84	-7.83	57.01	74.00	-16.99	PK
Horizontal	15570.054	49.07	-7.83	41.24	54.00	-12.76	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.110	71.25	-20.12	51.13	68.20	-17.07	PK
Vertical	4739.110	59.22	-20.12	39.09	54.00	-14.91	AV
Vertical	10460.195	64.59	-9.21	55.38	68.20	-12.82	PK
Vertical	10460.195	49.64	-9.21	40.43	54.00	-13.57	AV
Vertical	15690.074	63.47	-7.79	55.68	74.00	-18.32	PK
Vertical	15690.074	49.72	-7.79	41.93	54.00	-12.07	AV
Horizontal	4739.148	72.21	-20.12	52.08	68.20	-16.12	PK
Horizontal	4739.148	59.61	-20.12	39.48	54.00	-14.52	AV
Horizontal	10460.175	62.66	-9.21	53.45	68.20	-14.75	PK
Horizontal	10460.175	49.26	-9.21	40.05	54.00	-13.95	AV
Horizontal	15690.033	62.93	-7.79	55.14	74.00	-18.86	PK
Horizontal	15690.033	49.65	-7.79	41.86	54.00	-12.14	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).

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	4434.151	70.05	-20.73	49.32	68.20	-18.88	PK
Vertical	4434.151	59.76	-20.73	39.03	54.00	-14.97	AV
Vertical	10360.126	62.05	-9.36	52.69	68.20	-15.51	PK
Vertical	10360.126	49.80	-9.36	40.44	54.00	-13.56	AV
Vertical	15540.095	63.78	-7.84	55.94	74.00	-18.06	PK
Vertical	15540.095	49.83	-7.84	41.99	54.00	-12.01	AV
Horizontal	4434.185	71.24	-20.73	50.51	68.20	-17.69	PK
Horizontal	4434.185	59.41	-20.73	38.68	54.00	-15.32	AV
Horizontal	10360.015	62.56	-9.36	53.20	68.20	-15.00	PK
Horizontal	10360.015	49.29	-9.36	39.93	54.00	-14.07	AV
Horizontal	15540.166	60.11	-7.84	52.27	74.00	-21.73	PK
Horizontal	15540.166	49.51	-7.84	41.67	54.00	-12.33	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.177	70.28	-20.42	49.86	74.00	-24.14	PK
Vertical	4592.177	59.49	-20.42	39.07	54.00	-14.93	AV
Vertical	10400.134	61.76	-9.30	52.46	68.20	-15.74	PK
Vertical	10400.134	49.66	-9.30	40.36	54.00	-13.64	AV
Vertical	15600.063	61.74	-7.82	53.92	74.00	-20.08	PK
Vertical	15600.063	49.96	-7.82	42.14	54.00	-11.86	AV
Horizontal	4592.178	70.17	-20.42	49.76	74.00	-24.24	PK
Horizontal	4592.178	59.29	-20.42	38.87	54.00	-15.13	AV
Horizontal	10400.045	62.82	-9.30	53.52	68.20	-14.68	PK
Horizontal	10400.045	49.74	-9.30	40.44	54.00	-13.56	AV
Horizontal	15600.039	60.53	-7.82	52.71	74.00	-21.29	PK
Horizontal	15600.039	49.75	-7.82	41.93	54.00	-12.07	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.017	70.17	-20.12	50.05	74.00	-23.95	PK
Vertical	4739.017	59.15	-20.12	39.03	54.00	-14.97	AV
Vertical	10480.035	63.55	-9.18	54.37	68.20	-13.83	PK
Vertical	10480.035	49.80	-9.18	40.62	54.00	-13.38	AV
Vertical	15720.033	60.04	-7.78	52.26	74.00	-21.74	PK
Vertical	15720.033	49.17	-7.78	41.39	54.00	-12.61	AV
Horizontal	4739.199	70.69	-20.12	50.57	74.00	-23.43	PK
Horizontal	4739.199	59.08	-20.12	38.96	54.00	-15.04	AV
Horizontal	10480.050	61.30	-9.18	52.12	68.20	-16.08	PK
Horizontal	10480.050	49.71	-9.18	40.53	54.00	-13.47	AV
Horizontal	15720.098	61.30	-7.78	53.52	74.00	-20.48	PK
Horizontal	15720.098	49.50	-7.78	41.72	54.00	-12.28	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	4434.109	74.15	-20.73	53.42	68.20	-14.78	PK
Vertical	4434.109	59.88	-20.73	39.15	54.00	-14.85	AV
Vertical	10380.147	61.92	-9.33	52.59	68.20	-15.61	PK
Vertical	10380.147	49.01	-9.33	39.68	54.00	-14.32	AV
Vertical	15570.008	64.67	-7.83	56.84	74.00	-17.16	PK
Vertical	15570.008	49.57	-7.83	41.74	54.00	-12.26	AV
Horizontal	4434.133	74.20	-20.73	53.47	74.00	-20.53	PK
Horizontal	4434.133	59.38	-20.73	38.64	54.00	-15.36	AV
Horizontal	10380.070	61.22	-9.33	51.89	68.20	-16.31	PK
Horizontal	10380.070	49.55	-9.33	40.22	54.00	-13.78	AV
Horizontal	15570.179	63.83	-7.83	56.00	74.00	-18.00	PK
Horizontal	15570.179	49.81	-7.83	41.98	54.00	-12.02	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.158	71.22	-20.12	51.10	68.20	-17.10	PK
Vertical	4739.158	59.74	-20.12	39.62	54.00	-14.38	AV
Vertical	10460.002	62.23	-9.21	53.02	68.20	-15.18	PK
Vertical	10460.002	49.09	-9.21	39.88	54.00	-14.12	AV
Vertical	15690.145	63.14	-7.79	55.35	74.00	-18.65	PK
Vertical	15690.145	49.69	-7.79	41.90	54.00	-12.10	AV
Horizontal	4739.057	71.79	-20.12	51.67	68.20	-16.53	PK
Horizontal	4739.057	59.19	-20.12	39.07	54.00	-14.93	AV
Horizontal	10460.028	64.86	-9.21	55.65	68.20	-12.55	PK
Horizontal	10460.028	49.99	-9.21	40.78	54.00	-13.22	AV
Horizontal	15690.027	64.75	-7.79	56.96	74.00	-17.04	PK
Horizontal	15690.027	49.82	-7.79	42.03	54.00	-11.97	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 80
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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 (5210 MHz)-Above 1G							
Vertical	4434.189	70.02	-20.73	49.29	68.20	-18.91	PK
Vertical	4434.189	59.98	-20.73	39.25	54.00	-14.75	AV
Vertical	10420.110	60.84	-9.27	51.57	68.20	-16.63	PK
Vertical	10420.110	50.00	-9.27	40.73	54.00	-13.27	AV
Vertical	15630.129	61.25	-7.81	53.44	74.00	-20.56	PK
Vertical	15630.129	49.12	-7.81	41.31	54.00	-12.69	AV
Horizontal	4434.078	72.24	-20.73	51.51	68.20	-16.69	PK
Horizontal	4434.078	59.21	-20.73	38.48	54.00	-15.52	AV
Horizontal	10420.103	42.16	9.27	51.43	68.20	-16.77	PK
Horizontal	10420.103	29.99	9.27	39.26	54.00	-14.74	AV
Horizontal	15630.060	60.82	-7.81	53.01	74.00	-20.99	PK
Horizontal	15630.060	49.80	-7.81	41.99	54.00	-12.01	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	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	4679.187	71.39	-20.24	51.14	74.00	-22.86	PK
Vertical	4679.187	59.14	-20.24	38.90	54.00	-15.10	AV
Vertical	11490.022	61.56	-8.79	52.77	68.20	-15.43	PK
Vertical	11490.022	49.94	-8.79	41.15	54.00	-12.85	AV
Vertical	17235.116	59.25	-3.18	56.07	68.20	-12.13	PK
Vertical	17235.116	44.17	-3.18	40.99	54.00	-13.01	AV
Horizontal	4679.093	71.24	-20.73	50.51	74.00	-23.49	PK
Horizontal	4679.093	59.36	-20.73	38.63	54.00	-15.37	AV
Horizontal	11490.023	61.13	-8.79	52.34	68.20	-15.86	PK
Horizontal	11490.023	49.50	-8.79	40.71	54.00	-13.29	AV
Horizontal	17235.076	56.29	-3.18	53.11	68.20	-15.09	PK
Horizontal	17235.076	44.72	-3.18	41.54	54.00	-12.46	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.170	72.16	-20.42	51.75	74.00	-22.25	PK
Vertical	4592.170	59.92	-20.42	39.51	54.00	-14.49	AV
Vertical	11570.163	61.53	-8.86	52.67	68.20	-15.53	PK
Vertical	11570.163	49.61	-8.86	40.75	54.00	-13.25	AV
Vertical	17355.122	55.33	-2.52	52.81	68.20	-15.39	PK
Vertical	17355.122	44.16	-2.52	41.64	54.00	-12.36	AV
Horizontal	4592.141	73.88	-20.42	53.46	74.00	-20.54	PK
Horizontal	4592.141	59.22	-20.42	38.80	54.00	-15.20	AV
Horizontal	11570.045	61.52	-8.86	52.66	68.20	-15.54	PK
Horizontal	11570.045	49.64	-8.86	40.78	54.00	-13.22	AV
Horizontal	17355.129	55.31	-2.52	52.79	68.20	-15.41	PK
Horizontal	17355.129	44.50	-2.52	41.98	54.00	-12.02	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.154	73.44	-18.93	54.51	68.20	-13.69	PK
Vertical	6039.154	59.06	-18.93	40.13	54.00	-13.87	AV
Vertical	11650.019	61.04	-8.92	52.12	74.00	-21.88	PK
Vertical	11650.019	49.88	-8.92	40.96	54.00	-13.04	AV
Vertical	17475.029	57.15	-1.86	55.29	68.20	-12.91	PK
Vertical	17475.029	44.59	-1.86	42.73	54.00	-11.27	AV
Horizontal	6039.072	72.24	-18.93	53.31	68.20	-14.89	PK
Horizontal	6039.072	59.92	-18.93	40.99	54.00	-13.01	AV
Horizontal	11650.049	62.89	-8.92	53.97	74.00	-20.03	PK
Horizontal	11650.049	49.30	-8.92	40.38	54.00	-13.62	AV
Horizontal	17475.036	59.11	-1.86	57.25	68.20	-10.95	PK
Horizontal	17475.036	44.85	-1.86	42.99	54.00	-11.01	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

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	4679.093	71.76	-20.24	51.51	74.00	-22.49	PK
Vertical	4679.093	59.42	-20.24	39.17	54.00	-14.83	AV
Vertical	11490.076	63.44	-8.79	54.65	68.20	-13.55	PK
Vertical	11490.076	49.07	-8.79	40.28	54.00	-13.72	AV
Vertical	17235.103	59.72	-3.18	56.54	68.20	-11.66	PK
Vertical	17235.103	44.84	-3.18	41.66	54.00	-12.34	AV
Horizontal	4679.080	71.09	-20.24	50.85	74.00	-23.15	PK
Horizontal	4679.080	59.50	-20.24	39.26	54.00	-14.74	AV
Horizontal	11490.171	60.53	-8.79	51.74	68.20	-16.46	PK
Horizontal	11490.171	49.96	-8.79	41.17	54.00	-12.83	AV
Horizontal	17235.097	55.63	-3.18	52.45	68.20	-15.75	PK
Horizontal	17235.097	44.45	-3.18	41.27	54.00	-12.73	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.046	70.94	-20.42	50.52	74.00	-23.48	PK
Vertical	4592.046	59.32	-20.42	38.91	54.00	-15.09	AV
Vertical	11570.049	64.97	-8.86	56.11	68.20	-12.09	PK
Vertical	11570.049	49.59	-8.86	40.73	54.00	-13.27	AV
Vertical	17355.017	59.41	-2.52	56.89	68.20	-11.31	PK
Vertical	17355.017	44.04	-2.52	41.52	54.00	-12.48	AV
Horizontal	4592.147	73.46	-20.42	53.04	74.00	-20.96	PK
Horizontal	4592.147	59.83	-20.42	39.42	54.00	-14.58	AV
Horizontal	11570.130	63.21	-8.86	54.35	68.20	-13.85	PK
Horizontal	11570.130	49.27	-8.86	40.41	54.00	-13.59	AV
Horizontal	17355.109	58.17	-2.52	55.65	68.20	-12.55	PK
Horizontal	17355.109	44.02	-2.52	41.50	54.00	-12.50	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.133	71.73	-18.93	52.80	68.20	-15.40	PK
Vertical	6039.133	59.14	-18.93	40.21	54.00	-13.79	AV
Vertical	11650.023	62.17	-8.92	53.25	74.00	-20.75	PK
Vertical	11650.023	49.33	-8.92	40.41	54.00	-13.59	AV
Vertical	17475.186	57.17	-1.86	55.31	68.20	-12.89	PK
Vertical	17475.186	44.30	-1.86	42.44	54.00	-11.56	AV
Horizontal	6039.009	73.79	-18.93	54.86	68.20	-13.34	PK
Horizontal	6039.009	59.66	-18.93	40.73	54.00	-13.27	AV
Horizontal	11650.067	64.01	-8.92	55.09	74.00	-18.91	PK
Horizontal	11650.067	49.16	-8.92	40.24	54.00	-13.76	AV
Horizontal	17475.040	59.42	-1.86	57.56	68.20	-10.64	PK
Horizontal	17475.040	44.55	-1.86	42.69	54.00	-11.31	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	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	4679.115	73.60	-20.24	53.36	74.00	-20.64	PK
Vertical	4679.115	59.53	-20.24	39.29	54.00	-14.71	AV
Vertical	11510.114	64.11	-8.81	55.30	74.00	-18.70	PK
Vertical	11510.114	49.87	-8.81	41.06	54.00	-12.94	AV
Vertical	17265.195	59.44	-3.01	56.43	68.20	-11.77	PK
Vertical	17265.195	44.73	-3.01	41.72	54.00	-12.28	AV
Horizontal	4679.095	71.72	-20.24	51.48	74.00	-22.52	PK
Horizontal	4679.095	59.03	-20.24	38.79	54.00	-15.21	AV
Horizontal	11510.073	60.93	-8.81	52.12	74.00	-21.88	PK
Horizontal	11510.073	49.03	-8.81	40.22	54.00	-13.78	AV
Horizontal	17265.079	58.16	-3.01	55.15	68.20	-13.05	PK
Horizontal	17265.079	44.09	-3.01	41.08	54.00	-12.92	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.146	70.62	-18.93	51.69	68.20	-16.51	PK
Vertical	6039.146	59.51	-18.93	40.57	54.00	-13.43	AV
Vertical	11590.074	61.10	-8.87	52.23	74.00	-21.77	PK
Vertical	11590.074	49.60	-8.87	40.73	54.00	-13.27	AV
Vertical	17385.037	59.39	-2.35	57.04	68.20	-11.16	PK
Vertical	17385.037	44.08	-2.35	41.73	54.00	-12.27	AV
Horizontal	6039.150	71.51	-18.93	52.57	68.20	-15.63	PK
Horizontal	6039.150	59.00	-18.93	40.07	54.00	-13.93	AV
Horizontal	11590.111	61.91	-8.87	53.04	74.00	-20.96	PK
Horizontal	11590.111	49.20	-8.87	40.33	54.00	-13.67	AV
Horizontal	17385.028	58.09	-2.35	55.74	68.20	-12.46	PK
Horizontal	17385.028	44.56	-2.35	42.21	54.00	-11.79	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

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	4679.183	72.04	-20.24	51.79	74.00	-22.21	PK
Vertical	4679.183	60.00	-20.24	39.76	54.00	-14.24	AV
Vertical	11490.007	61.24	-8.79	52.45	68.20	-15.75	PK
Vertical	11490.007	49.78	-8.79	40.99	54.00	-13.01	AV
Vertical	17235.088	55.51	-3.18	52.33	68.20	-15.87	PK
Vertical	17235.088	44.87	-3.18	41.69	54.00	-12.31	AV
Horizontal	4679.090	71.21	-20.24	50.96	74.00	-23.04	PK
Horizontal	4679.090	59.18	-20.24	38.94	54.00	-15.06	AV
Horizontal	11490.081	64.28	-8.79	55.49	68.20	-12.71	PK
Horizontal	11490.081	49.24	-8.79	40.45	54.00	-13.55	AV
Horizontal	17235.057	58.57	-3.18	55.39	68.20	-12.81	PK
Horizontal	17235.057	44.26	-3.18	41.08	54.00	-12.92	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.096	73.40	-20.42	52.98	74.00	-21.02	PK
Vertical	4592.096	59.48	-20.42	39.06	54.00	-14.94	AV
Vertical	11570.083	61.98	-8.86	53.12	68.20	-15.08	PK
Vertical	11570.083	49.71	-8.86	40.85	54.00	-13.15	AV
Vertical	17355.133	56.47	-2.52	53.95	68.20	-14.25	PK
Vertical	17355.133	44.39	-2.52	41.87	54.00	-12.13	AV
Horizontal	4592.072	73.92	-20.42	53.50	74.00	-20.50	PK
Horizontal	4592.072	59.21	-20.42	38.80	54.00	-15.20	AV
Horizontal	11570.114	63.45	-8.86	54.59	68.20	-13.61	PK
Horizontal	11570.114	49.49	-8.86	40.63	54.00	-13.37	AV
Horizontal	17355.145	56.62	-2.52	54.10	68.20	-14.10	PK
Horizontal	17355.145	44.26	-2.52	41.74	54.00	-12.26	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.102	72.79	-18.93	53.85	68.20	-14.35	PK
Vertical	6039.102	59.59	-18.93	40.66	54.00	-13.34	AV
Vertical	11650.144	60.21	-8.92	51.29	74.00	-22.71	PK
Vertical	11650.144	49.56	-8.92	40.64	54.00	-13.36	AV
Vertical	17475.195	59.68	-1.86	57.82	68.20	-10.38	PK
Vertical	17475.195	44.93	-1.86	43.07	54.00	-10.93	AV
Horizontal	6039.030	74.66	-18.93	55.73	68.20	-12.47	PK
Horizontal	6039.030	59.22	-18.93	40.29	54.00	-13.71	AV
Horizontal	11650.106	64.43	-8.92	55.51	74.00	-18.49	PK
Horizontal	11650.106	49.89	-8.92	40.97	54.00	-13.03	AV
Horizontal	17475.114	56.78	-1.86	54.92	68.20	-13.28	PK
Horizontal	17475.114	44.06	-1.86	42.20	54.00	-11.80	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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.029	74.28	-20.24	54.03	74.00	-19.97	PK
Vertical	4679.029	59.22	-20.24	38.98	54.00	-15.02	AV
Vertical	11510.099	62.68	-8.81	53.87	74.00	-20.13	PK
Vertical	11510.099	49.60	-8.81	40.79	54.00	-13.21	AV
Vertical	17265.002	56.45	-3.01	53.44	68.20	-14.76	PK
Vertical	17265.002	44.39	-3.01	41.38	54.00	-12.62	AV
Horizontal	4679.074	70.46	-20.24	50.22	74.00	-23.78	PK
Horizontal	4679.074	59.12	-20.24	38.88	54.00	-15.12	AV
Horizontal	11510.021	62.06	-8.81	53.25	74.00	-20.75	PK
Horizontal	11510.021	49.14	-8.81	40.33	54.00	-13.67	AV
Horizontal	17265.084	57.45	-3.01	54.44	68.20	-13.76	PK
Horizontal	17265.084	44.17	-3.01	41.16	54.00	-12.84	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.154	74.91	-18.93	55.98	68.20	-12.22	PK
Vertical	6039.154	59.41	-18.93	40.48	54.00	-13.52	AV
Vertical	11590.076	61.29	-8.87	52.42	74.00	-21.58	PK
Vertical	11590.076	49.24	-8.87	40.37	54.00	-13.63	AV
Vertical	17385.043	56.77	-2.35	54.42	68.20	-13.78	PK
Vertical	17385.043	44.71	-2.35	42.36	54.00	-11.64	AV
Horizontal	6039.156	70.95	-18.93	52.02	68.20	-16.18	PK
Horizontal	6039.156	59.25	-18.93	40.31	54.00	-13.69	AV
Horizontal	11590.132	63.13	-8.87	54.26	74.00	-19.74	PK
Horizontal	11590.132	49.36	-8.87	40.49	54.00	-13.51	AV
Horizontal	17385.111	56.64	-2.35	54.29	68.20	-13.91	PK
Horizontal	17385.111	44.73	-2.35	42.38	54.00	-11.62	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).

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

Test Mode :	TX (5.8G) -- 802.11ac 80
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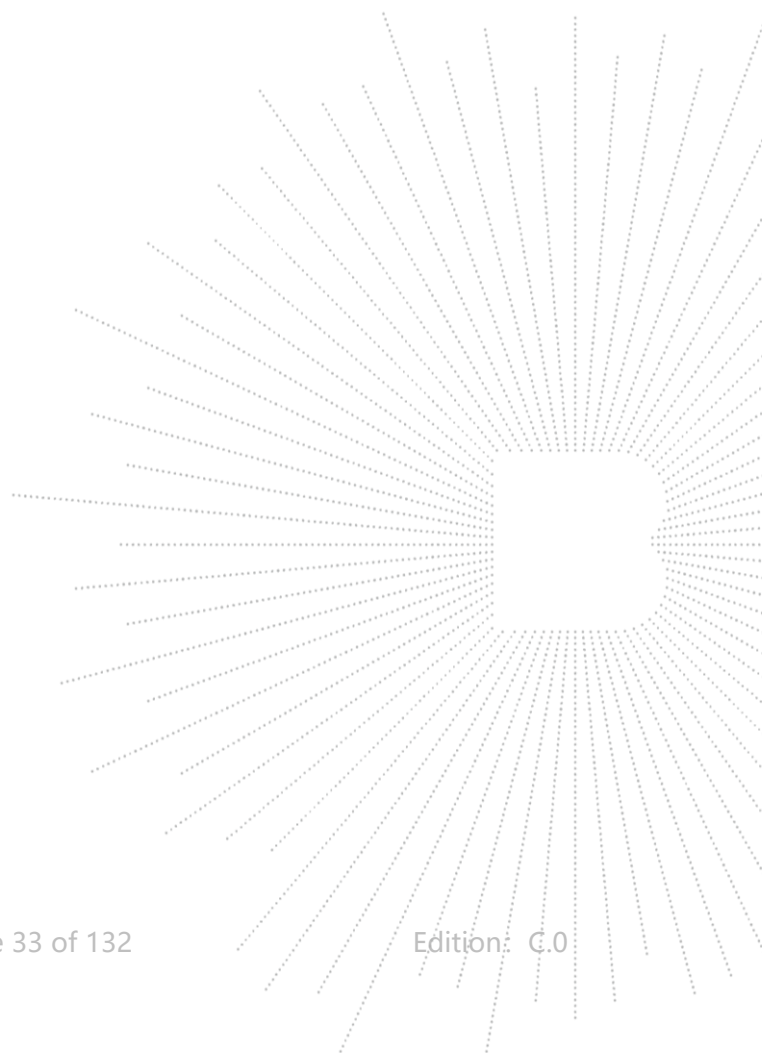
Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5775 MHz)-Above 1G							
Vertical	4679.130	70.14	-20.24	49.90	74.00	-24.10	PK
Vertical	4679.130	59.00	-20.24	38.76	54.00	-15.24	AV
Vertical	11550.000	60.12	-8.84	51.28	74.00	-22.72	PK
Vertical	11550.000	49.70	-8.84	40.86	54.00	-13.14	AV
Vertical	17325.159	56.70	-2.68	54.02	68.20	-14.18	PK
Vertical	17325.159	44.78	-2.68	42.10	54.00	-11.90	AV
Horizontal	4679.083	73.03	-20.24	52.79	74.00	-21.21	PK
Horizontal	4679.083	59.41	-20.24	39.17	54.00	-14.83	AV
Horizontal	11550.040	60.56	-8.84	51.72	74.00	-22.28	PK
Horizontal	11550.040	49.47	-8.84	40.63	54.00	-13.37	AV
Horizontal	17325.124	57.22	-2.68	54.54	68.20	-13.66	PK
Horizontal	17325.124	44.86	-2.68	42.18	54.00	-11.82	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).

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



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 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

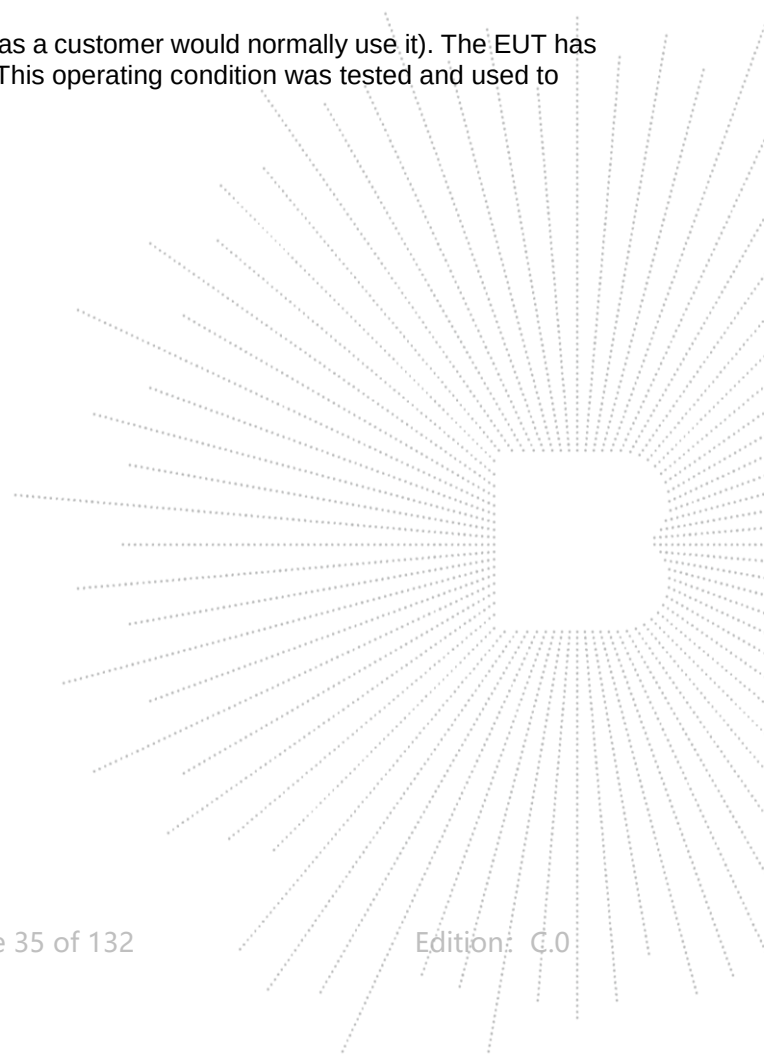
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 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 $RBW (< 500 \text{ KHz})$ 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.



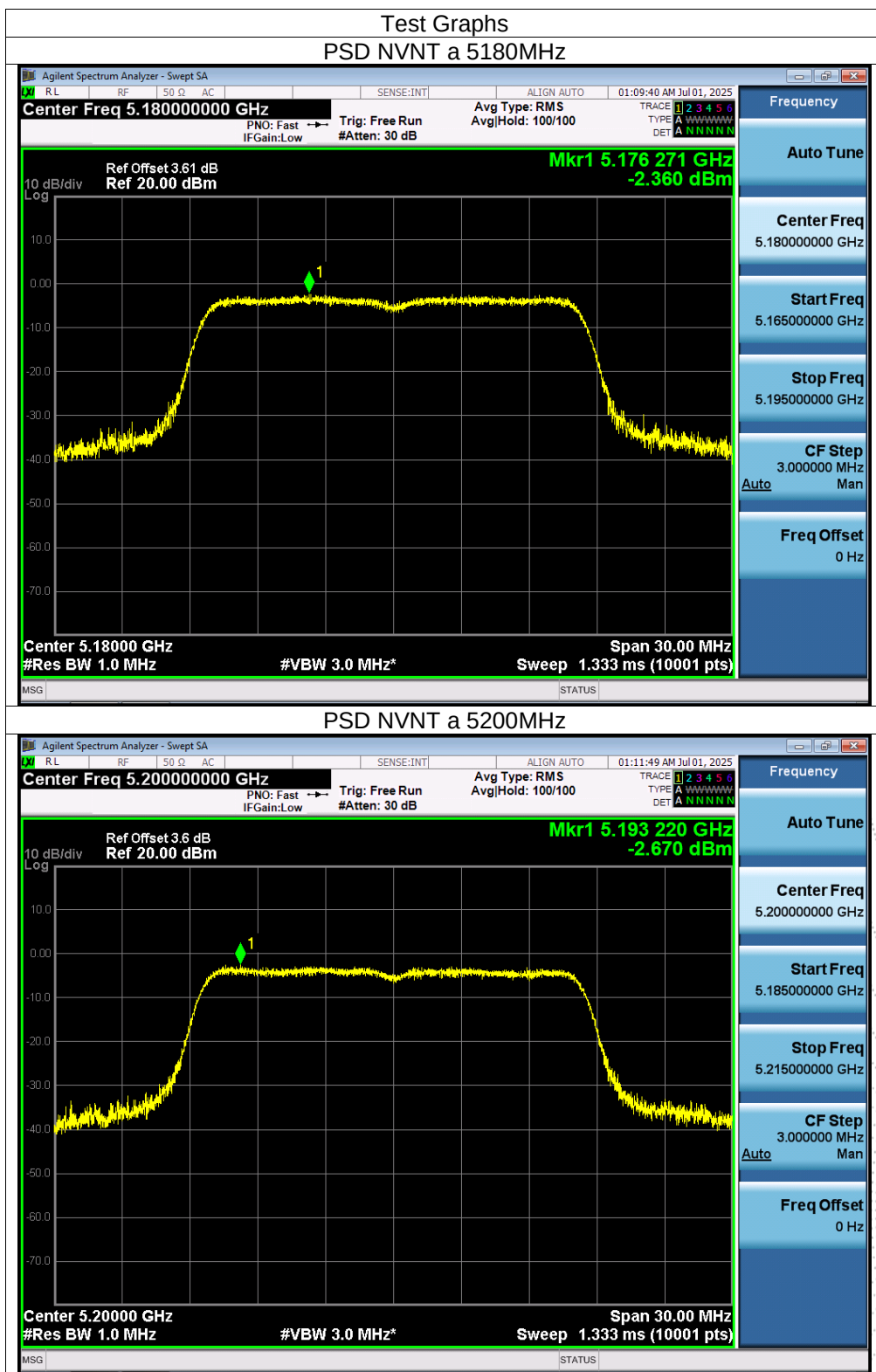
8.5 Test Result

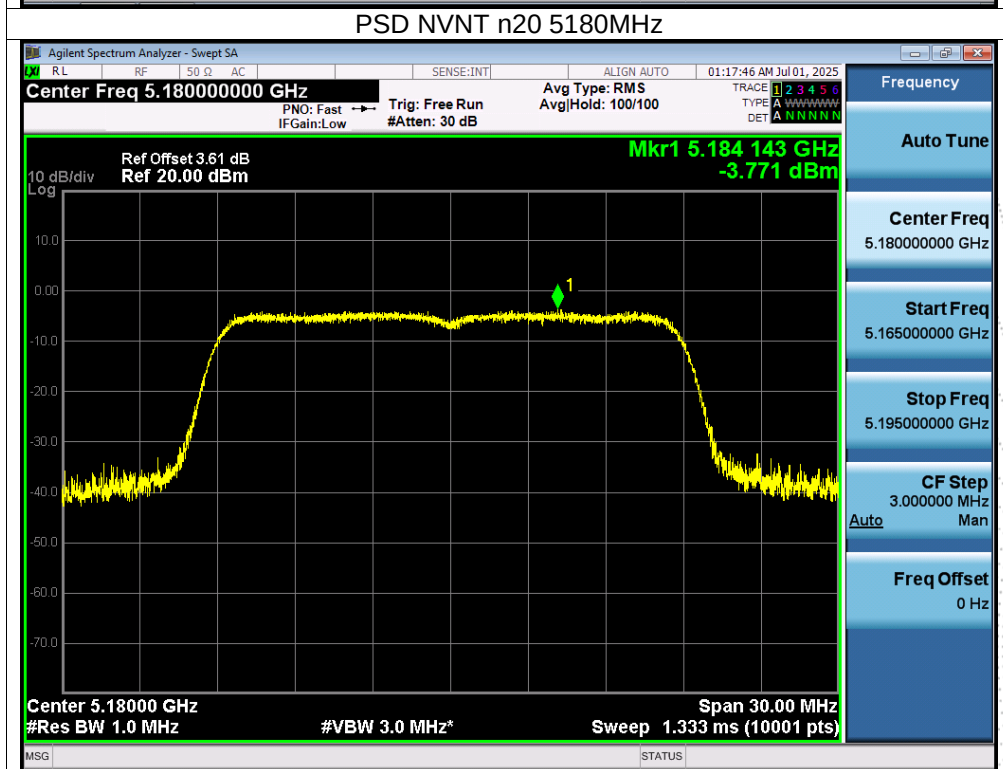
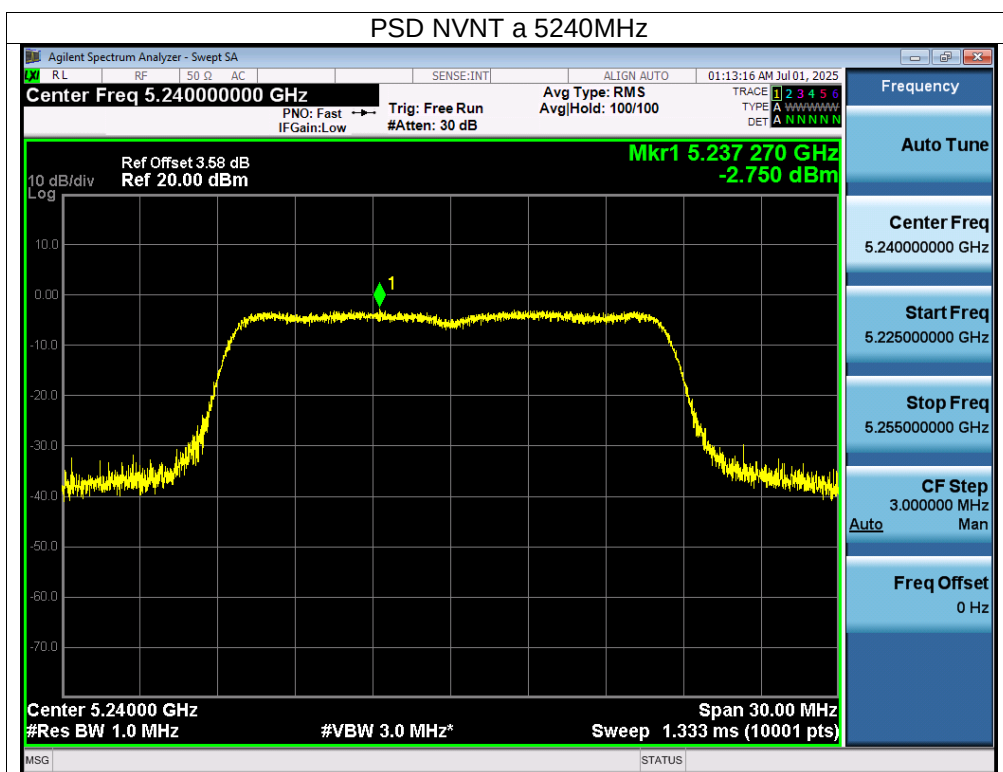
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.93V
Test Mode:	(U-NII-1) 5180MHz-5240MHz (U-NII-3) 5745MHz-5825MHz		

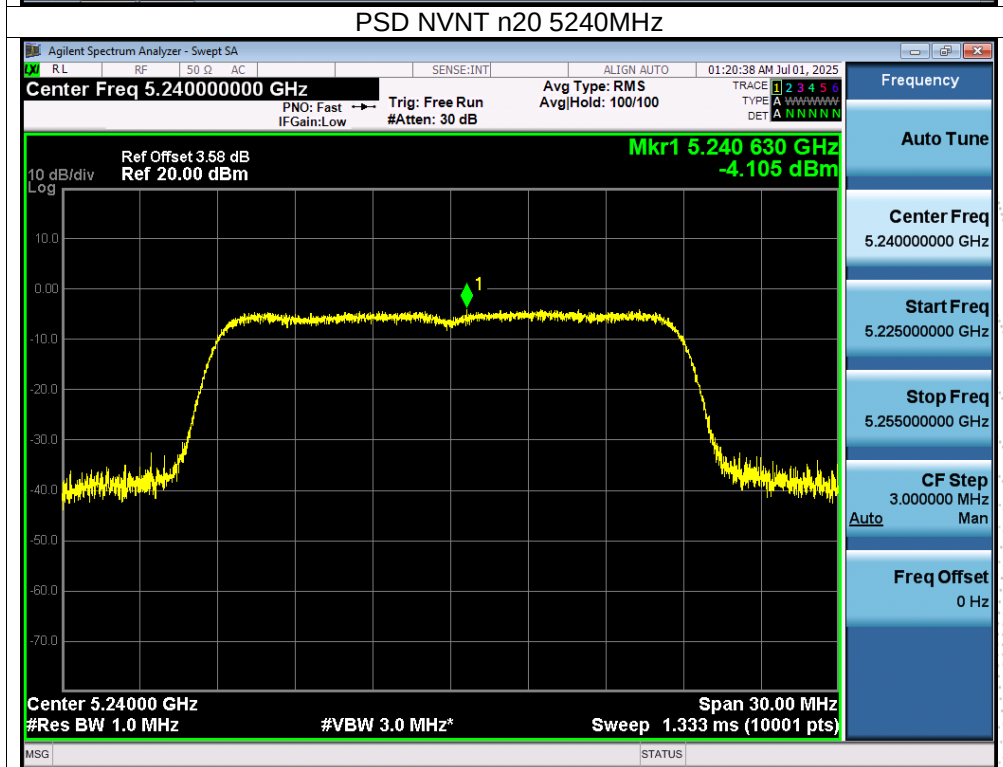
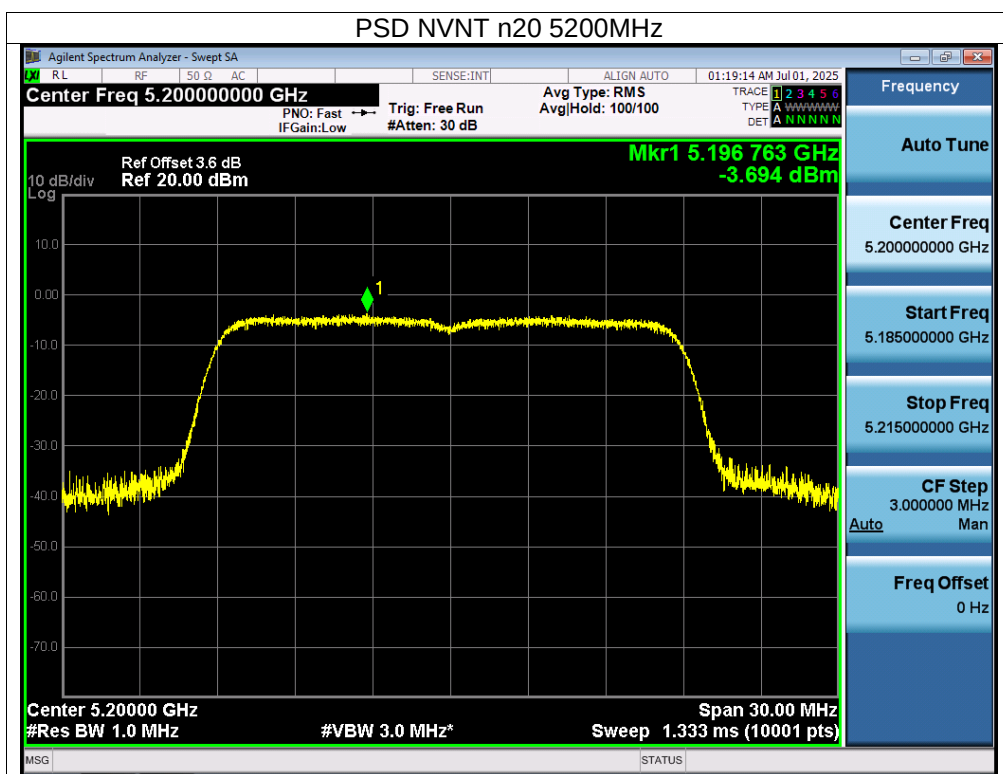
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	-2.36	11	Pass
NVNT	a	5200	-2.67	11	Pass
NVNT	a	5240	-2.75	11	Pass
NVNT	n20	5180	-3.77	11	Pass
NVNT	n20	5200	-3.69	11	Pass
NVNT	n20	5240	-4.11	11	Pass
NVNT	n40	5190	-7.86	11	Pass
NVNT	n40	5230	-7.14	11	Pass
NVNT	ac20	5180	-3.73	11	Pass
NVNT	ac20	5200	-4.26	11	Pass
NVNT	ac20	5240	-4.16	11	Pass
NVNT	ac40	5190	-7.62	11	Pass
NVNT	ac40	5230	-6.96	11	Pass
NVNT	ac80	5210	-13	11	Pass

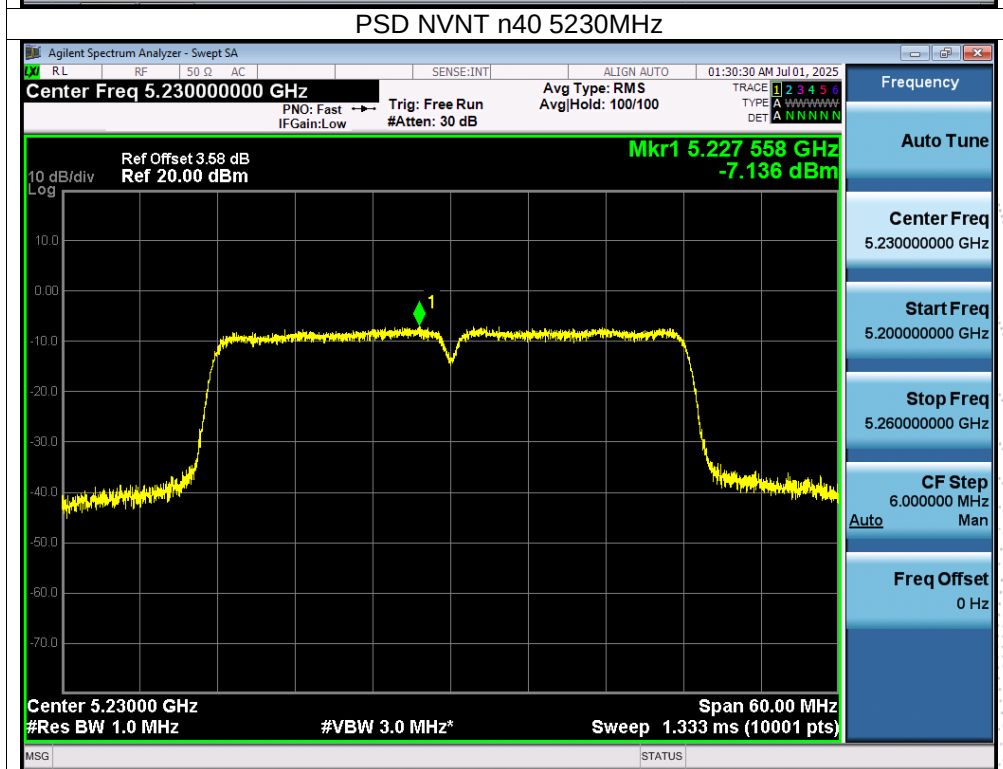
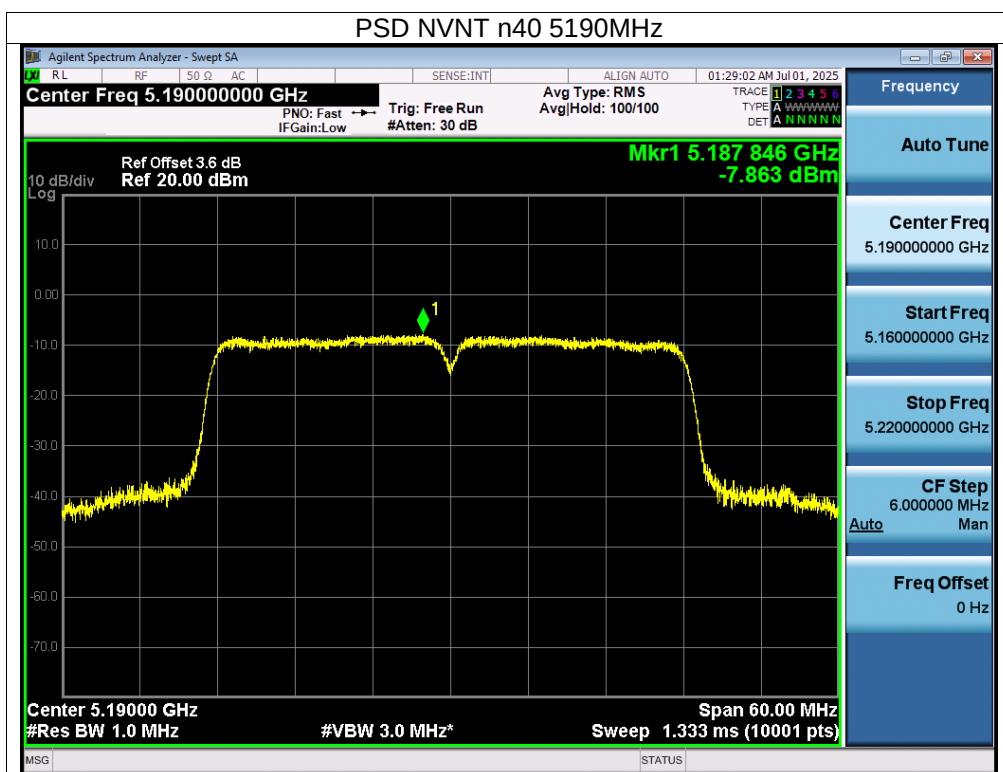
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-5.7	-5.786	30	Pass
NVNT	a	5785	-5.33	-5.416	30	Pass
NVNT	a	5825	-5.17	-5.256	30	Pass
NVNT	n20	5745	-7.18	-7.266	30	Pass
NVNT	n20	5785	-6.83	-6.916	30	Pass
NVNT	n20	5825	-6.89	-6.976	30	Pass
NVNT	n40	5755	-10.53	-10.616	30	Pass
NVNT	n40	5795	-10.63	-10.716	30	Pass
NVNT	ac20	5745	-6.79	-6.876	30	Pass
NVNT	ac20	5785	-6.75	-6.836	30	Pass
NVNT	ac20	5825	-6.81	-6.896	30	Pass
NVNT	ac40	5755	-10.95	-11.036	30	Pass
NVNT	ac40	5795	-10.93	-11.016	30	Pass
NVNT	ac80	5775	-15	-15.086	30	Pass

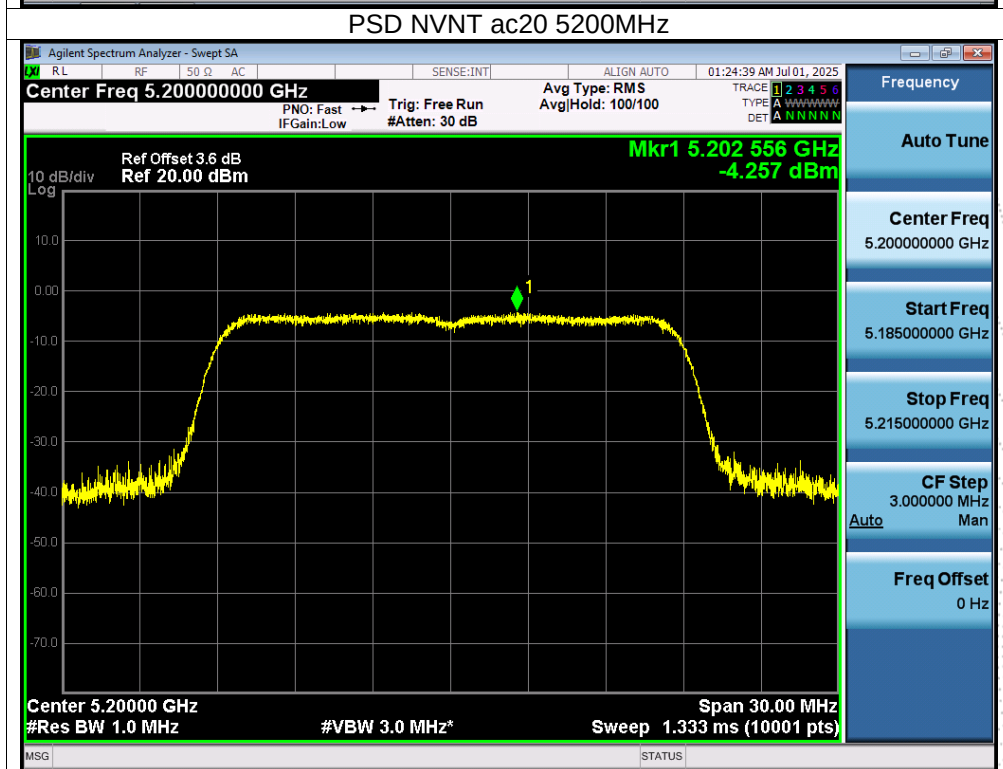
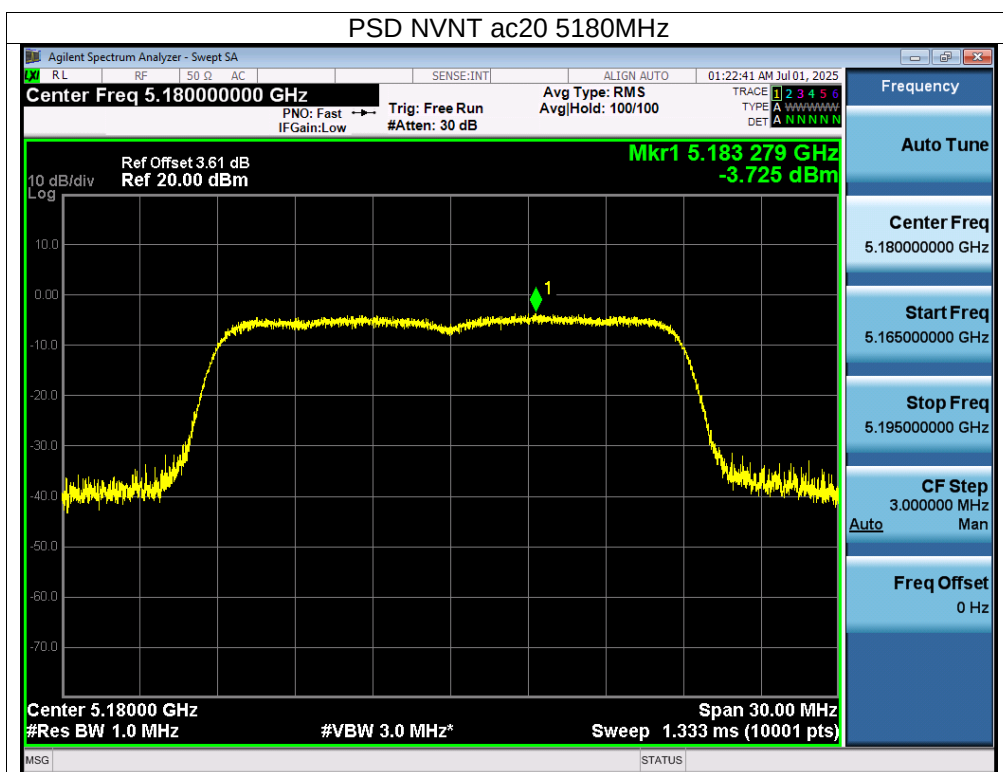
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$

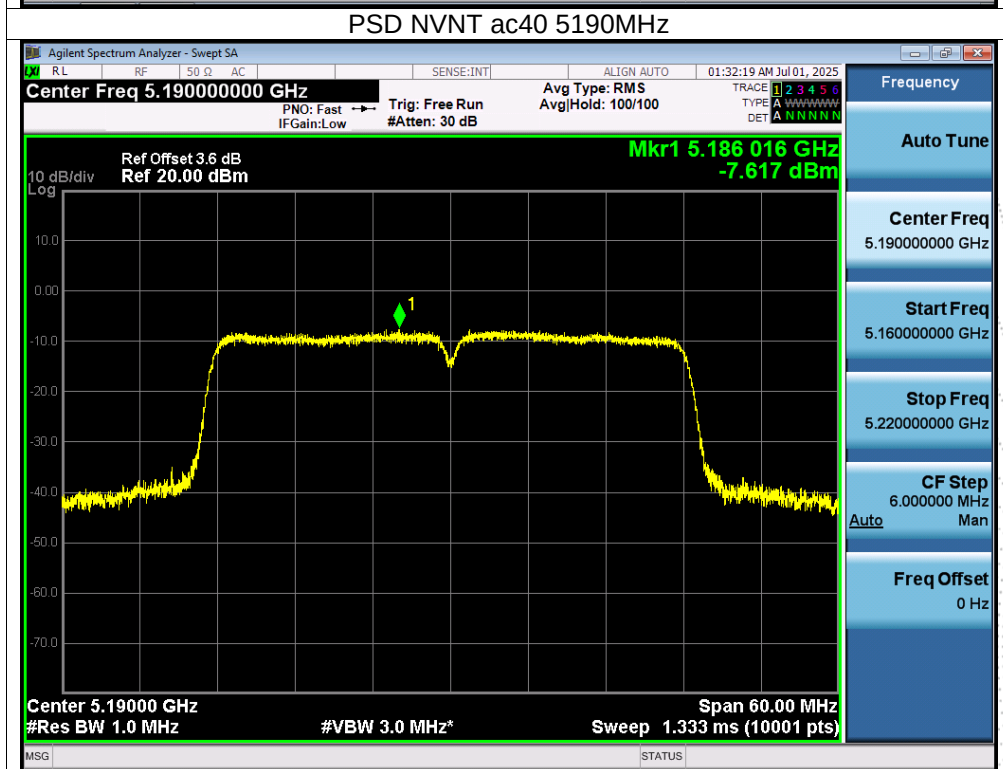
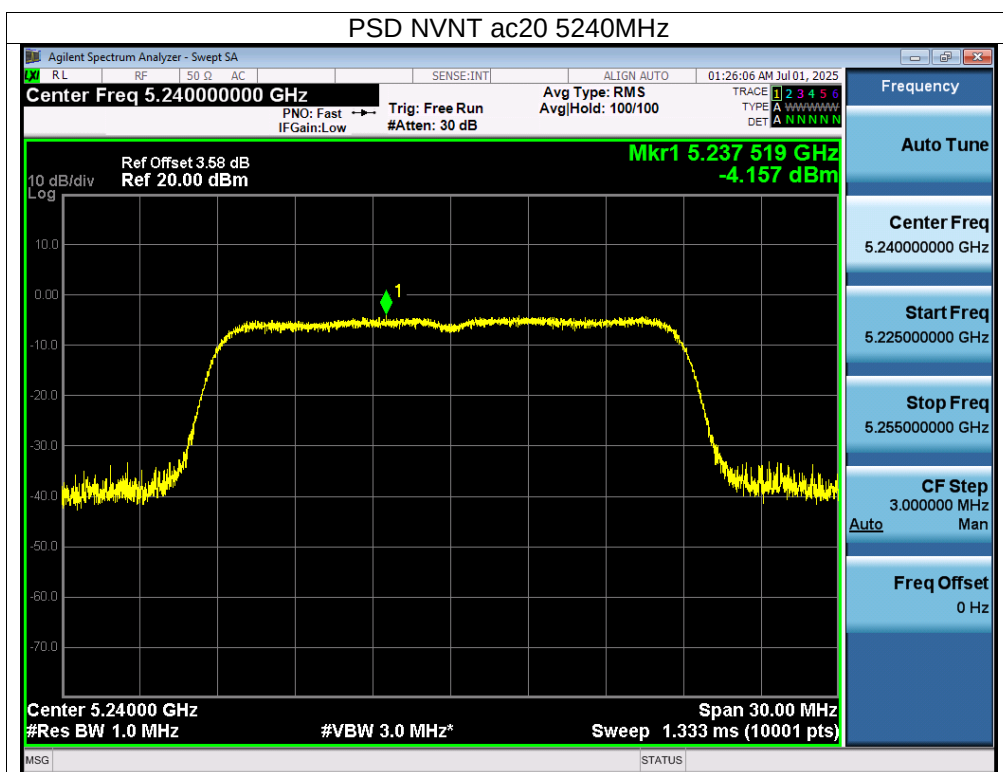


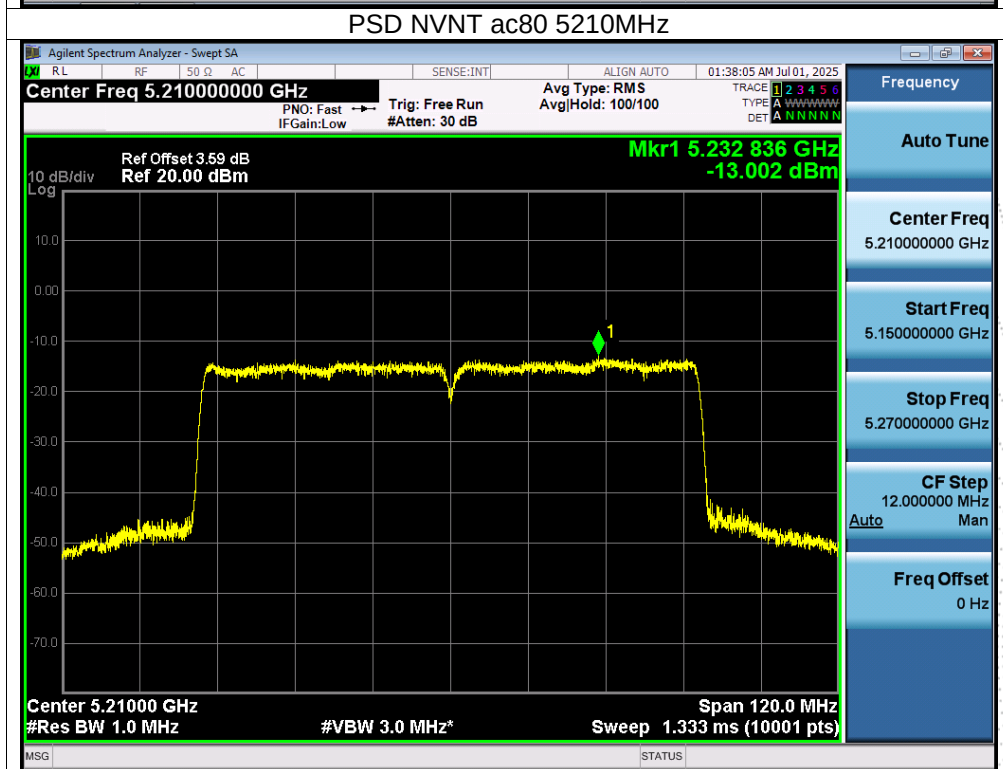
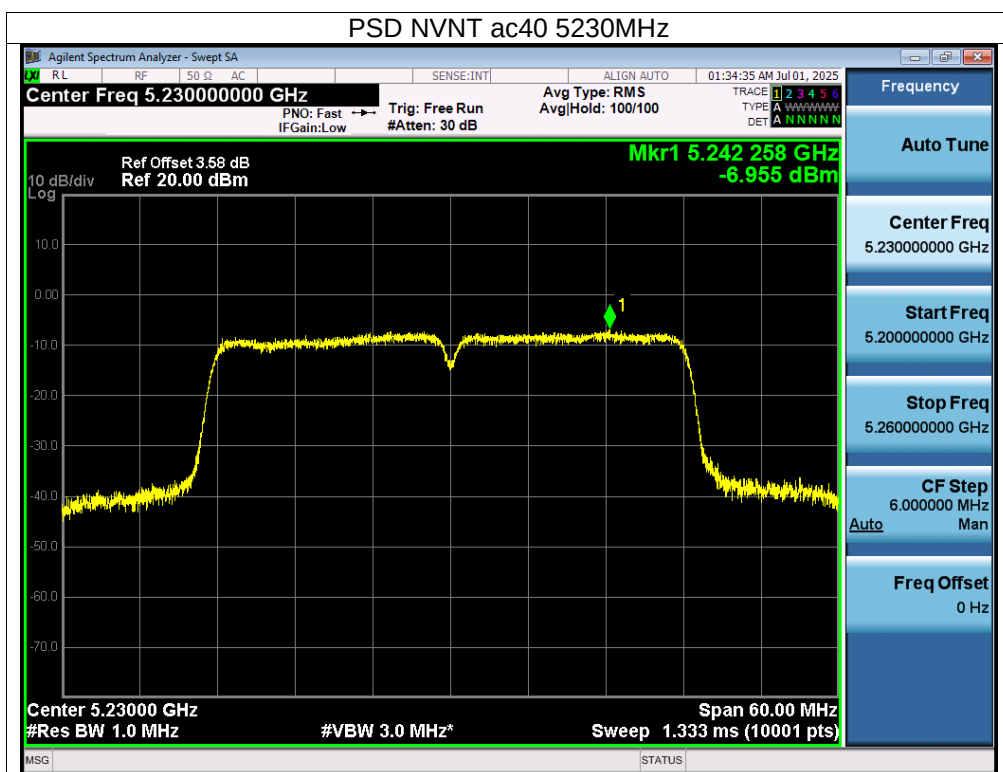


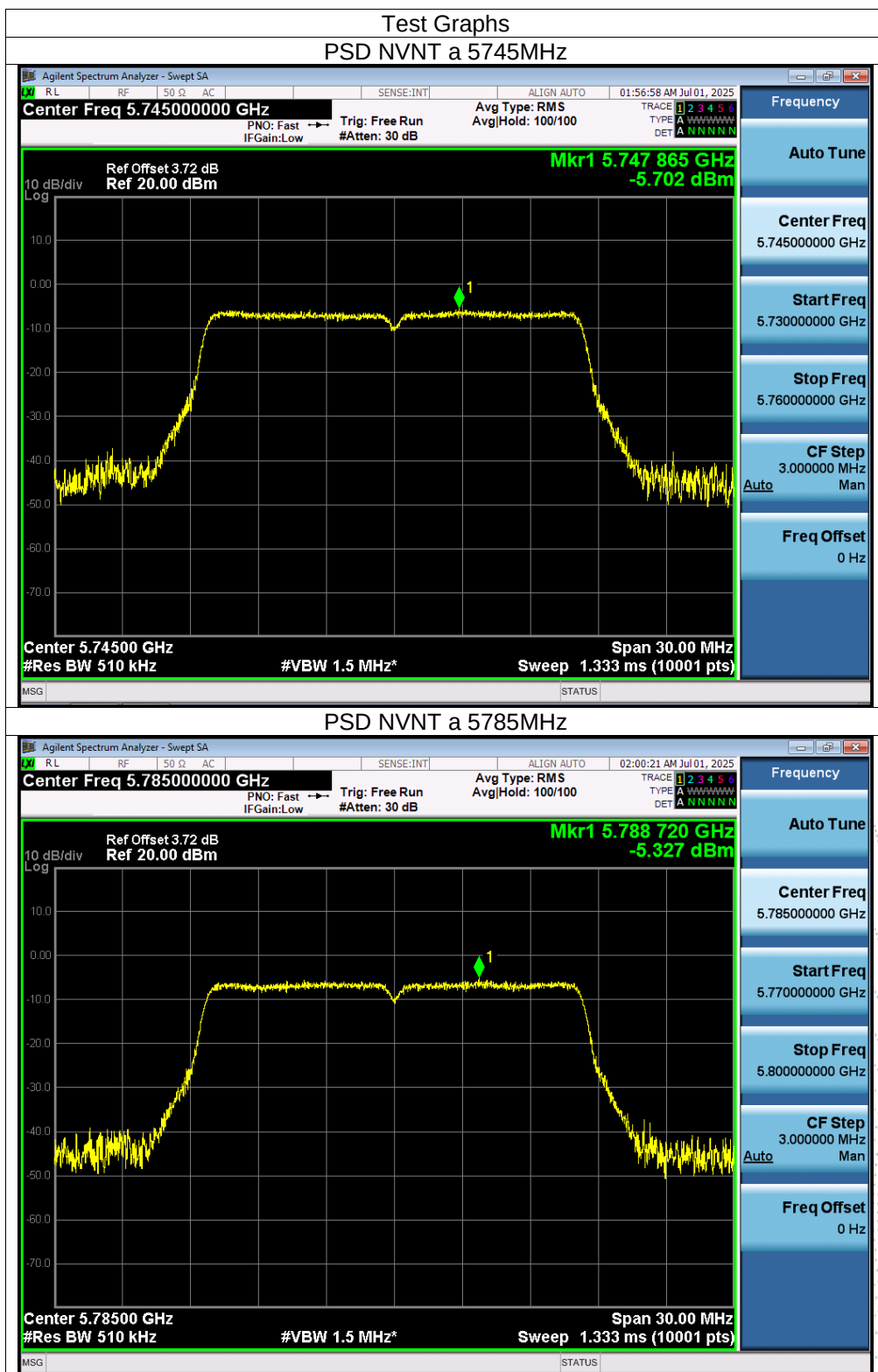


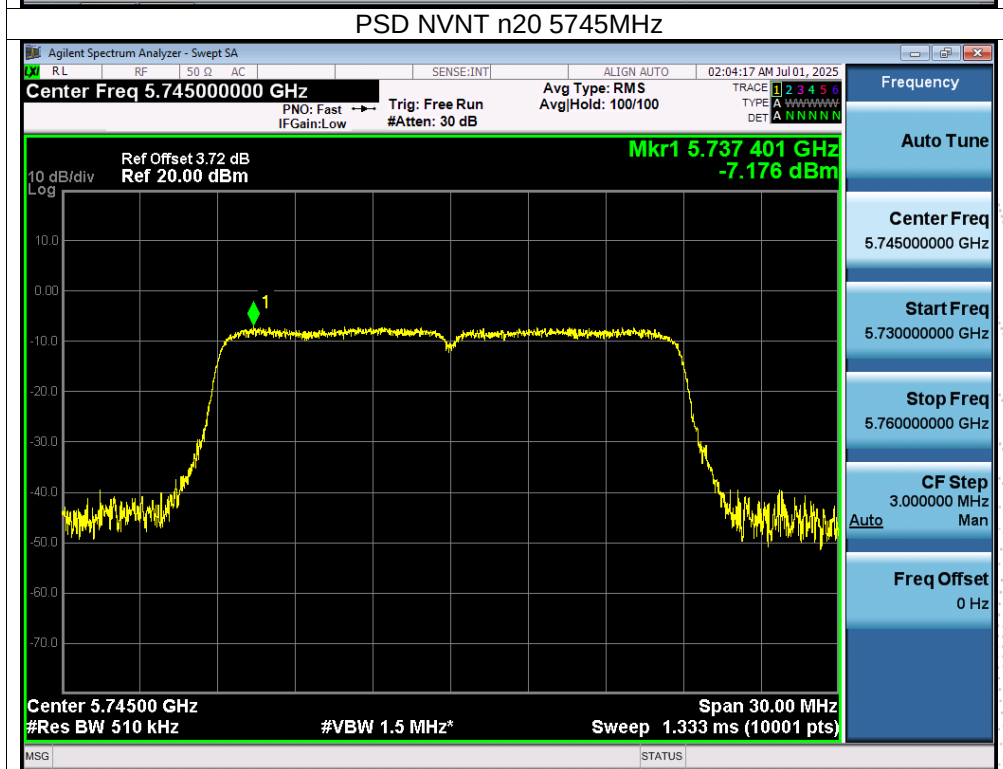
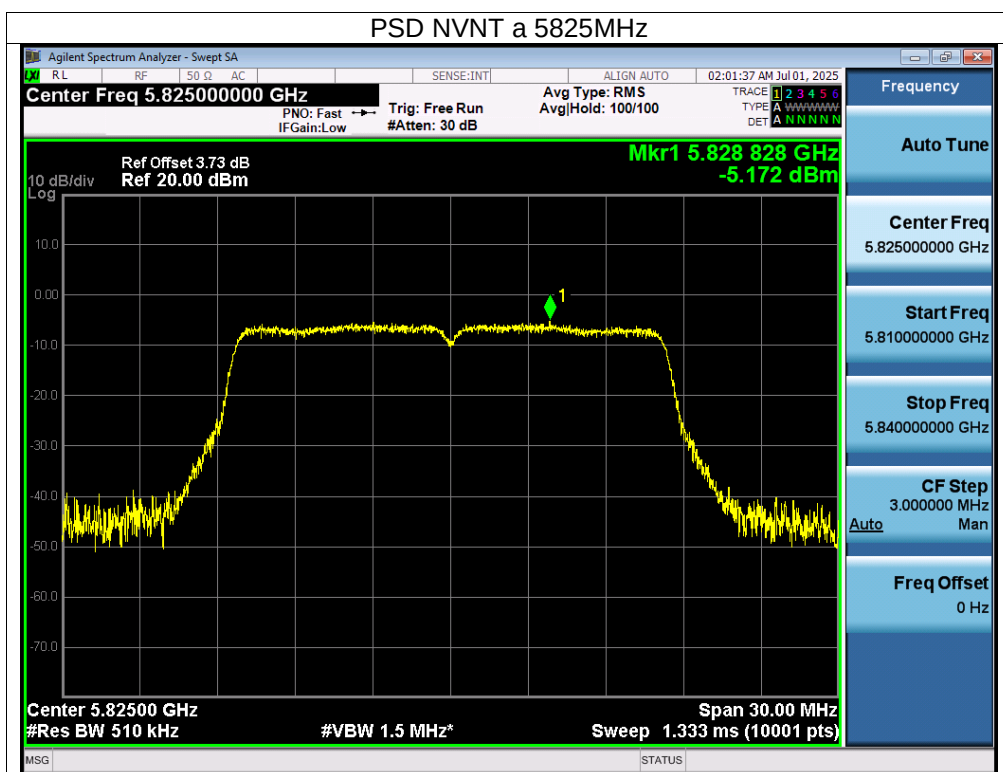


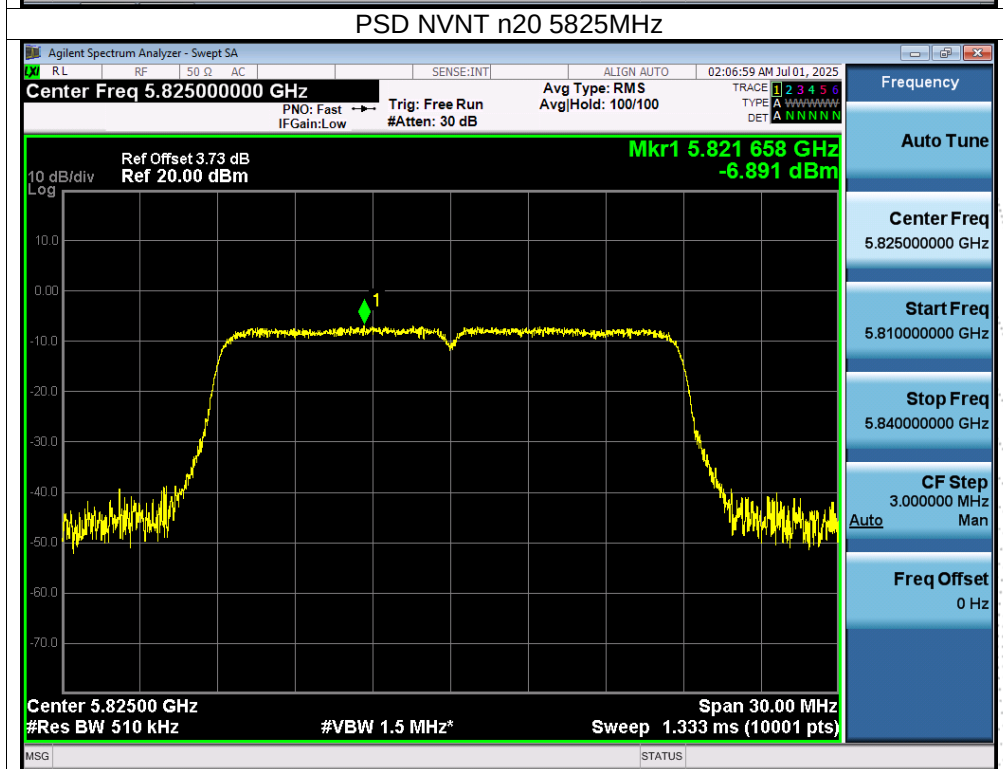
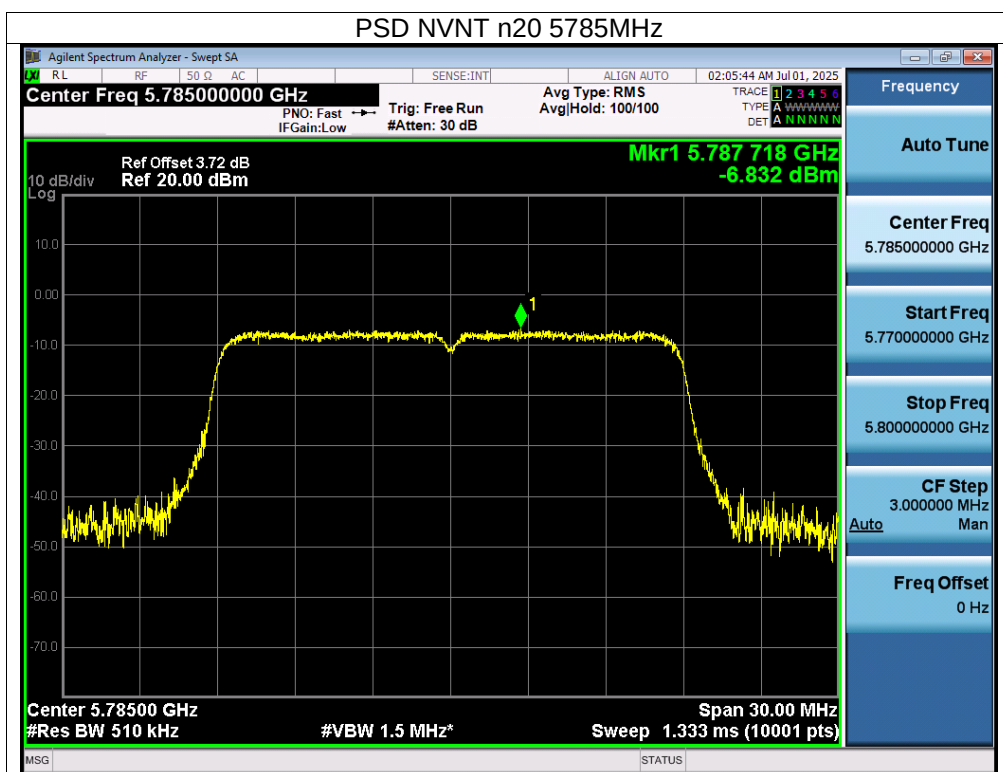


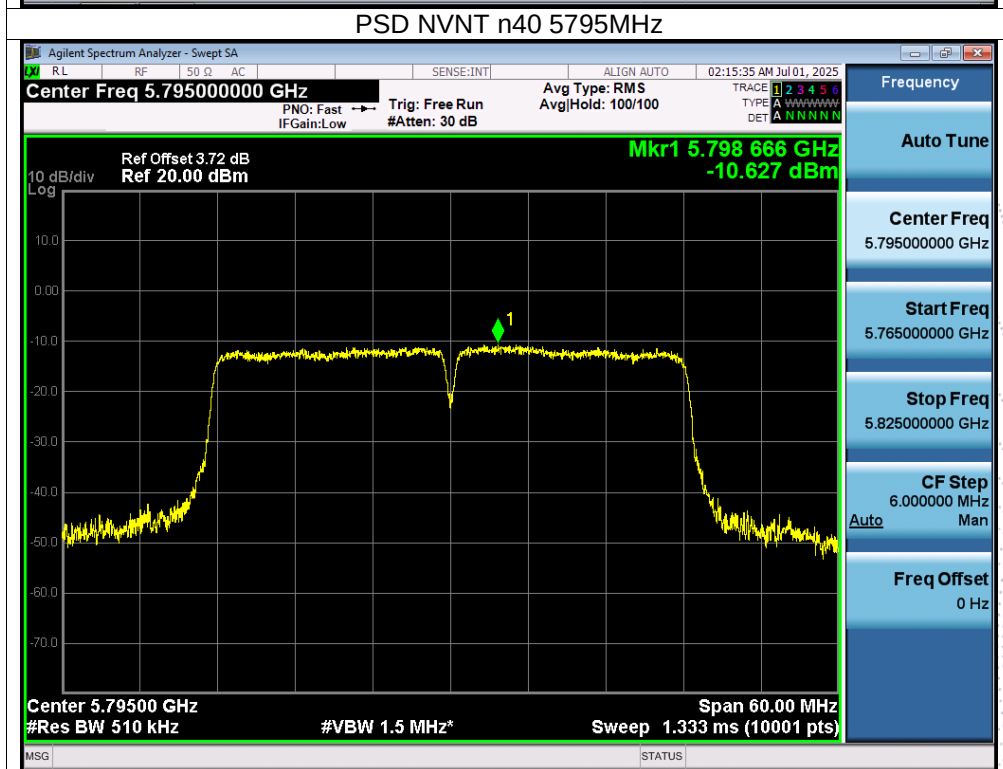
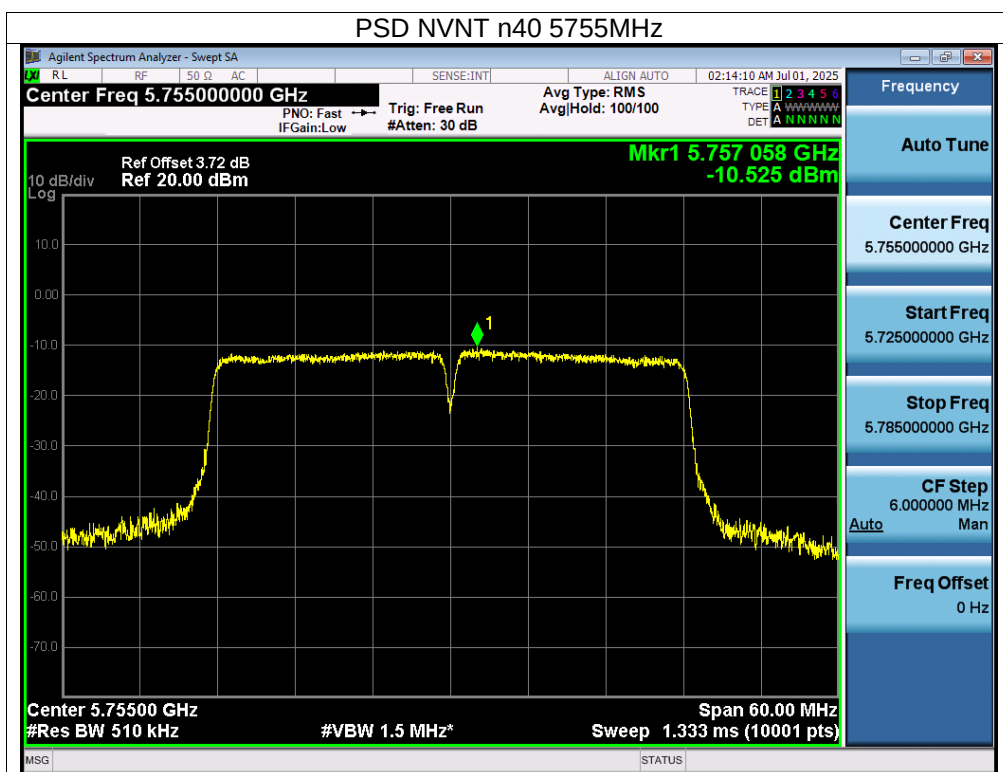


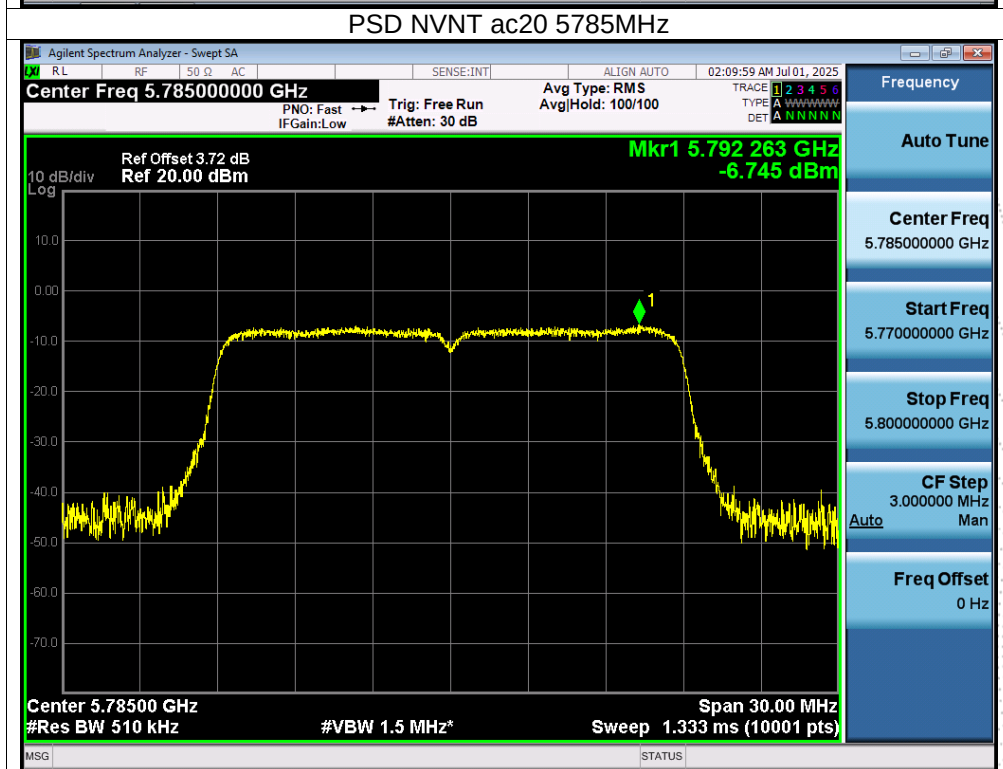
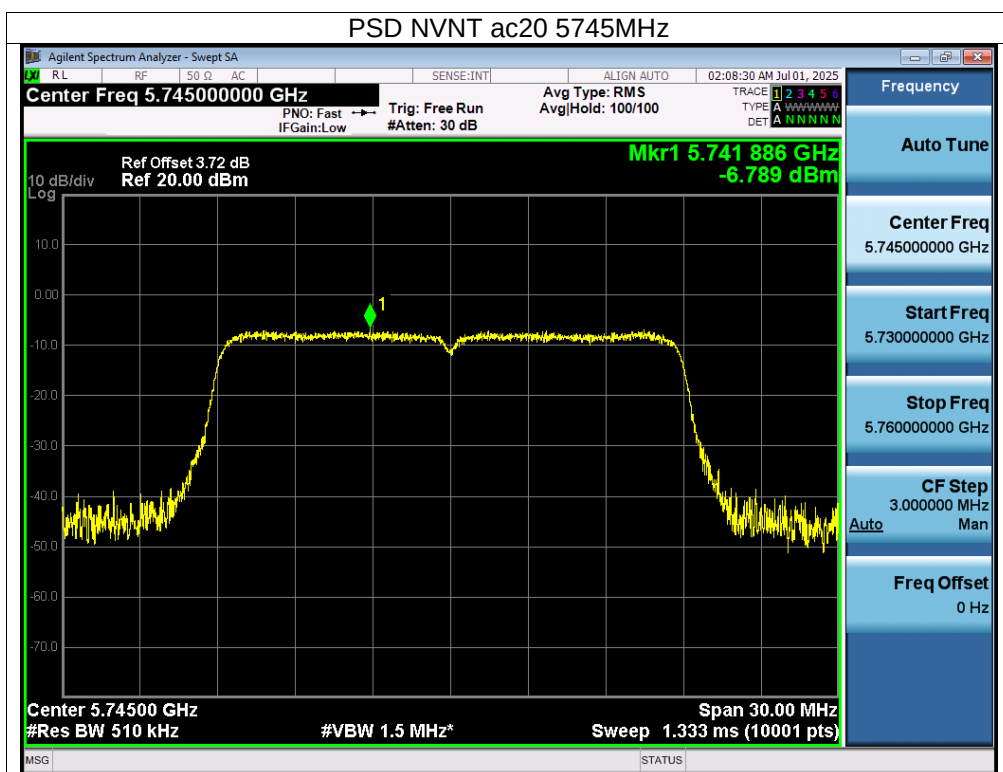


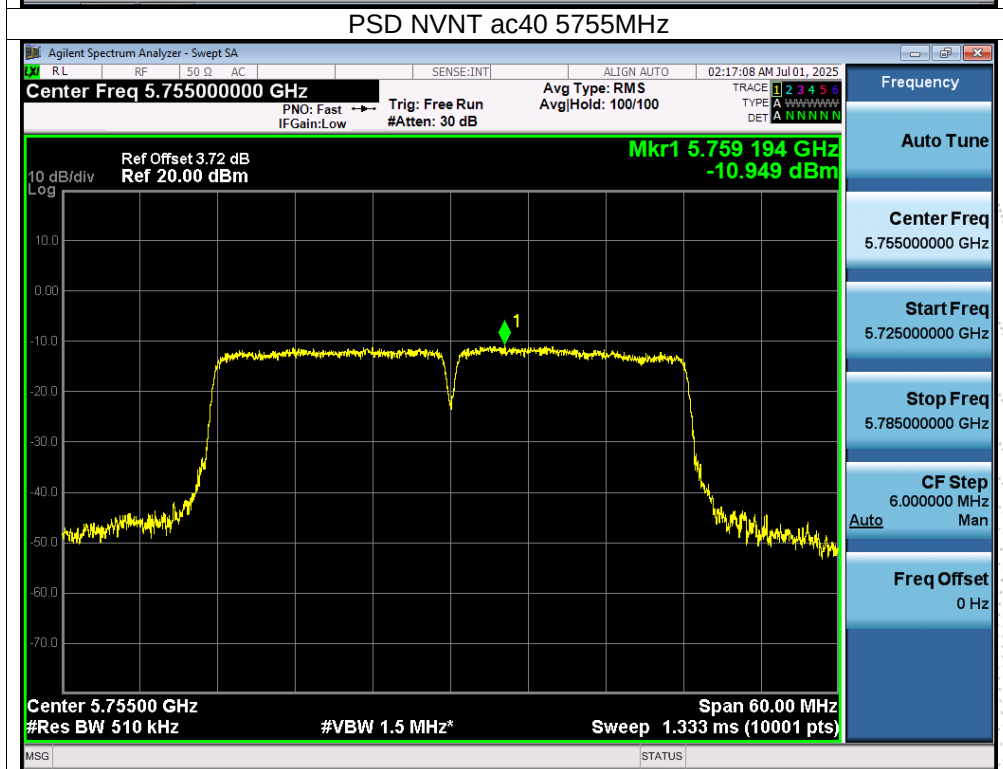
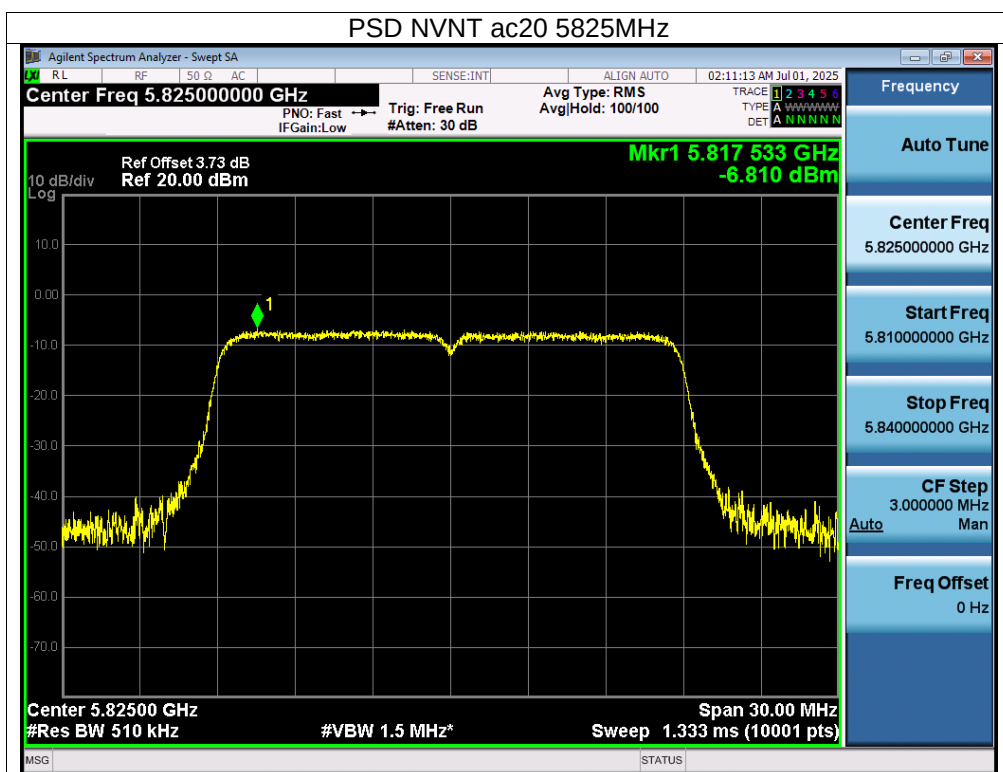


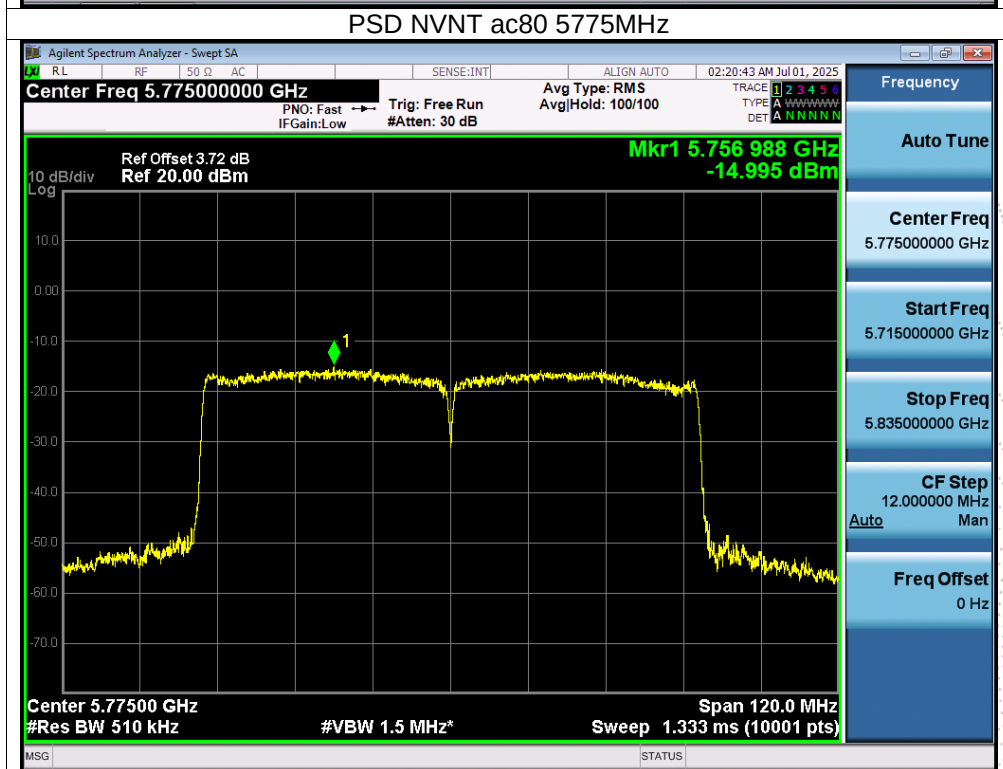
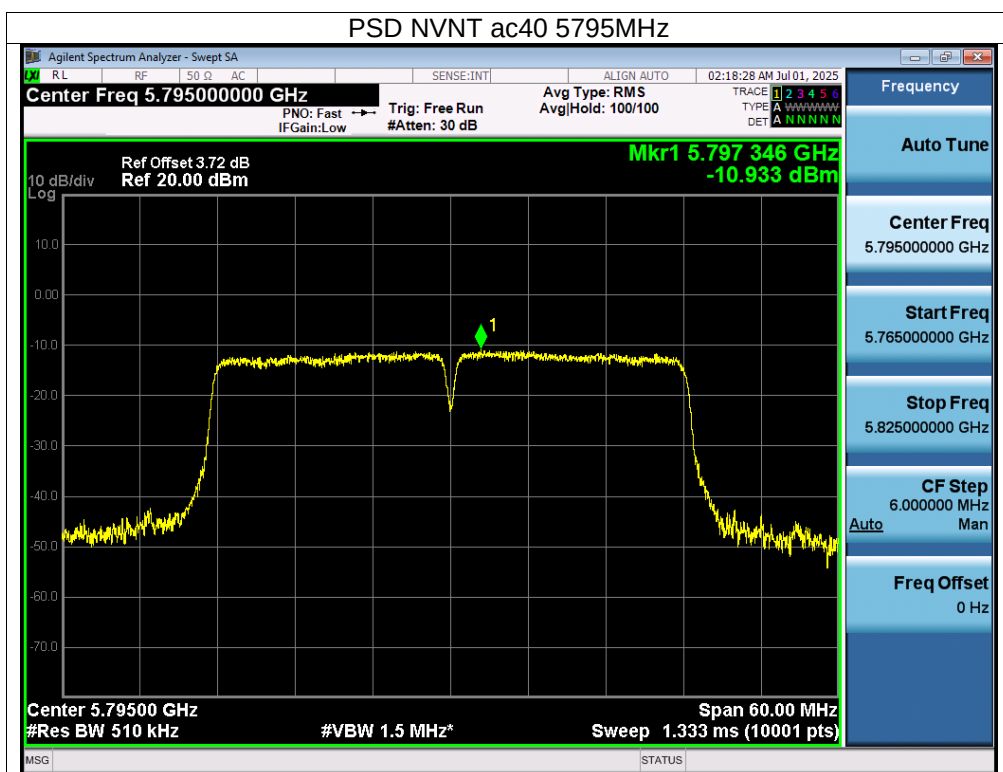






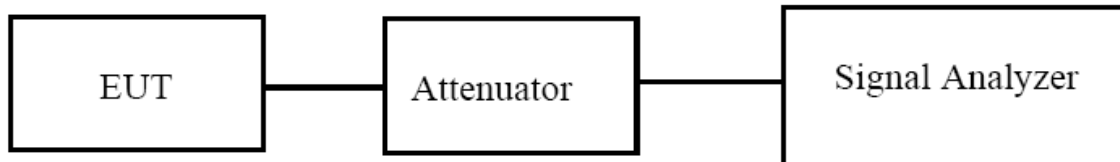






9. 26dB & 6dB & 99% Emission Bandwidth

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.
(6dB bandwidth)>500kHz

9.3 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set $VBW \geq 3 \cdot RBW$
- 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.
- Use the 99 % power bandwidth function of the instrument (if available).
- 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.

6dB

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.

6. Allow the trace to stabilize.

7. 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:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.93V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.589	24.256	Pass
NVNT	a	5200	16.561	23.081	Pass
NVNT	a	5240	16.585	22.626	Pass
NVNT	n20	5180	17.61	23.434	Pass
NVNT	n20	5200	17.617	23.93	Pass
NVNT	n20	5240	17.633	24.603	Pass
NVNT	n40	5190	36.091	47.066	Pass
NVNT	n40	5230	36.148	46.984	Pass
NVNT	ac20	5180	17.613	28.835	Pass
NVNT	ac20	5200	17.593	23.061	Pass
NVNT	ac20	5240	17.613	27.443	Pass
NVNT	ac40	5190	36.106	47.077	Pass
NVNT	ac40	5230	36.153	42.396	Pass
NVNT	ac80	5210	75.628	83.713	Pass

