

TEST REPORT

Report No.: BCTC2504054763-4E

Applicant: Shenzhen Huafurui Technology Co., Ltd.

Product Name: Smartphone

Test Model: KINGKONG ES 3

Tested Date: 2025-04-09 to 2025-05-26

Issued Date: 2025-05-27

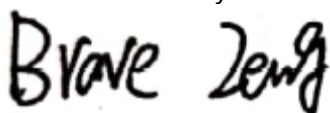
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AHZ5ES3

Product Name: Smartphone
Trademark: CUBOT
Model/Type reference: KINGKONG ES 3
Prepared For: Shenzhen Huafurui Technology Co., Ltd.
Address: Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Shenzhen, China
Manufacturer: Shenzhen Huafurui Technology Co., Ltd.
Address: Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, 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: 2025-04-09
Sample tested Date: 2025-04-09 to 2025-05-26
Issue Date: 2025-05-27
Report No.: BCTC2504054763-4E
Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

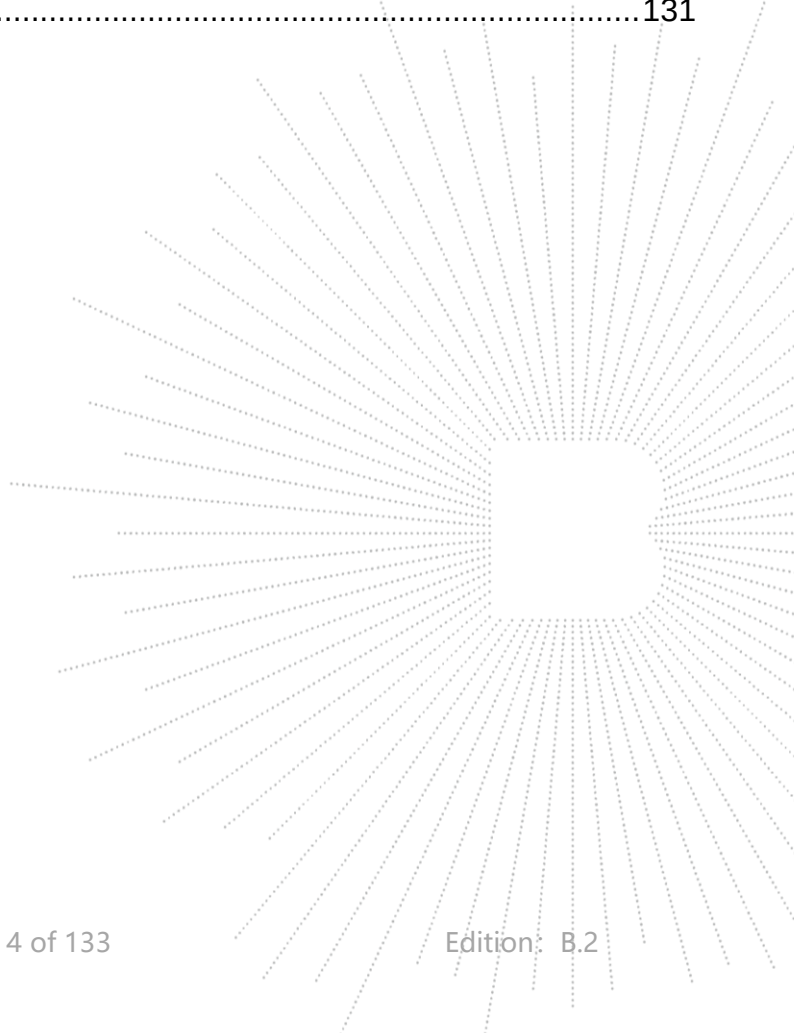
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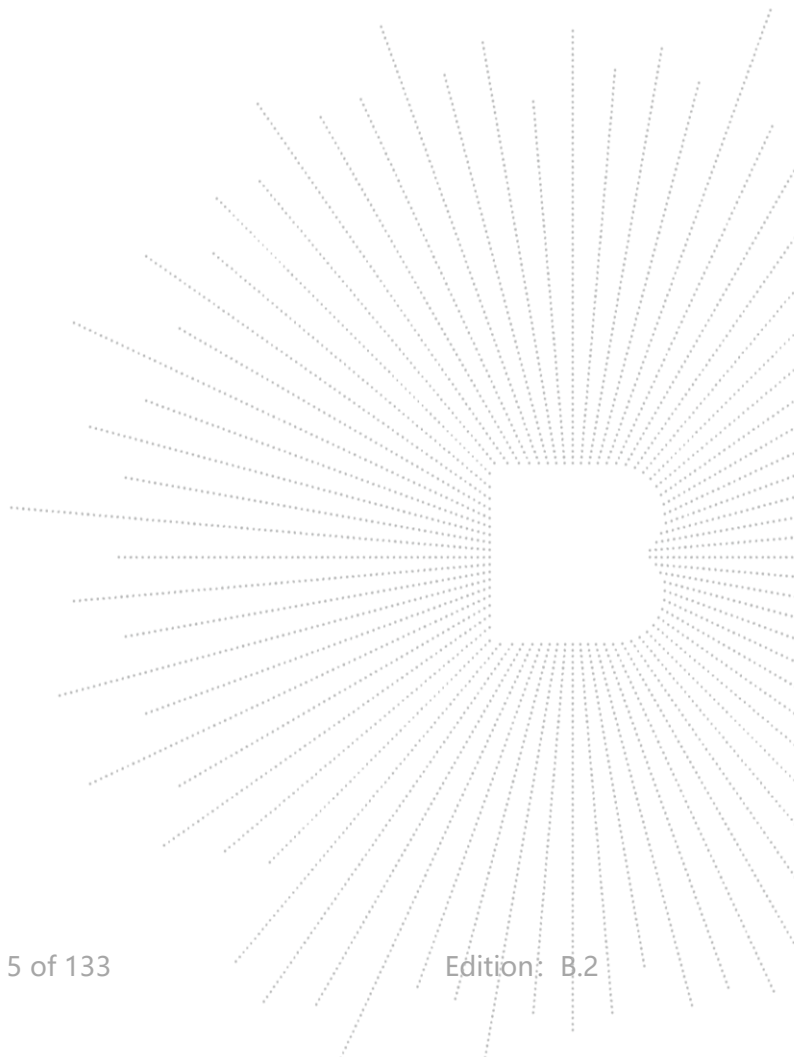
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2504054763-4E	2025-05-27	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.

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:	KINGKONG ES 3
Model differences:	N/A
Hardware Version:	S17F-MB-V2.0
Software Version:	CUBOT_KINGKONG_ES_3_F071C_V01
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth) 5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80;
Operation Frequency:	5745-5825 MHz for 802.11a/n(HT20); 5755-5795 MHz for 802.11n(HT40); 5775MHz for 802.11 ac80;
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 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ;
Number Of Channel	1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	Internal antenna -0.57 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 3.87V from battery Model: HJ-PD33W-US
Adapter Information:	Input: 100-240V~50/60Hz 0.8A Output: DC 5.0V 3.0A 15.0W OR DC 9.0V 3.0A 27.0W OR DC 12.0V 2.75A 33.0W 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	Smartphone	CUBOT	KINGKONG ES 3	N/A	EUT
E-2	Adapter	/	HJ-PD33W-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	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	ESR	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025

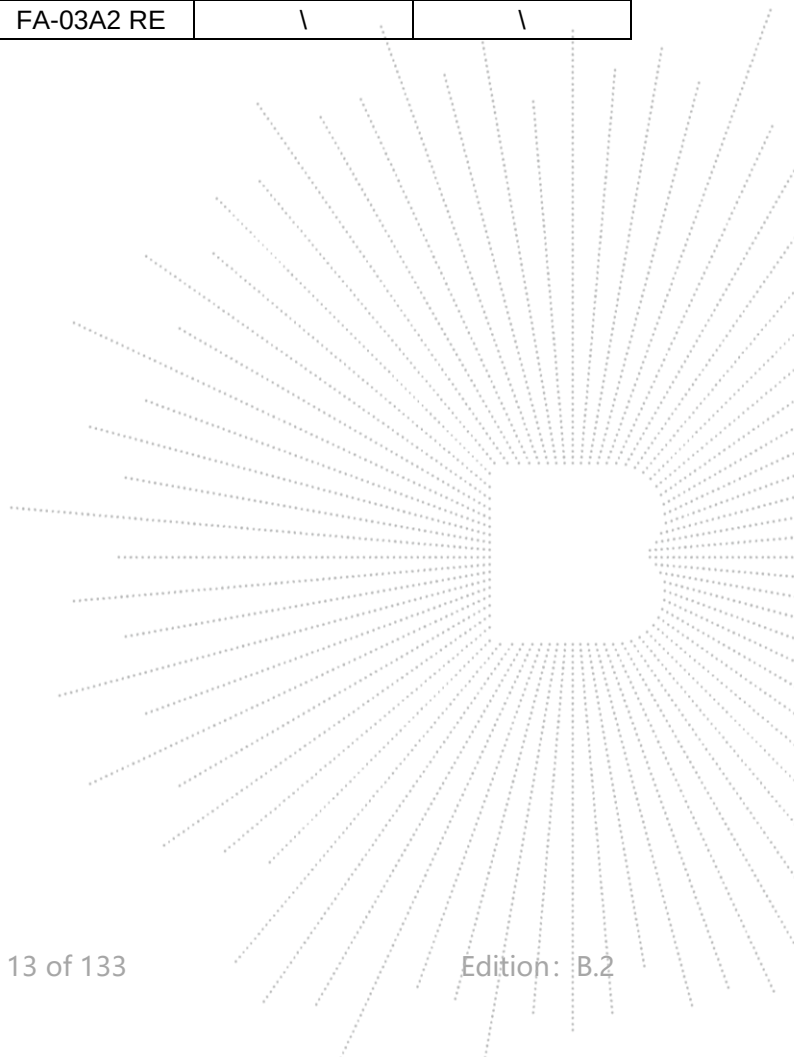
Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR	102075	May 08, 2025	May 07, 2026
LISN	R&S	ENV216	101375	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 14, 2025	May 13, 2026

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power metter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Communication test set	R&S	CMW500	126173	Nov. 11, 2024	Nov. 10, 2025
Radio frequency control box	MAIWEI	MW200-RFC B	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power metter	Keysight	E4419	\	May 14, 2025	May 13, 2026
Power Sensor (AV)	Keysight	E9300A	\	May 14, 2025	May 13, 2026
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
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	\	\	\

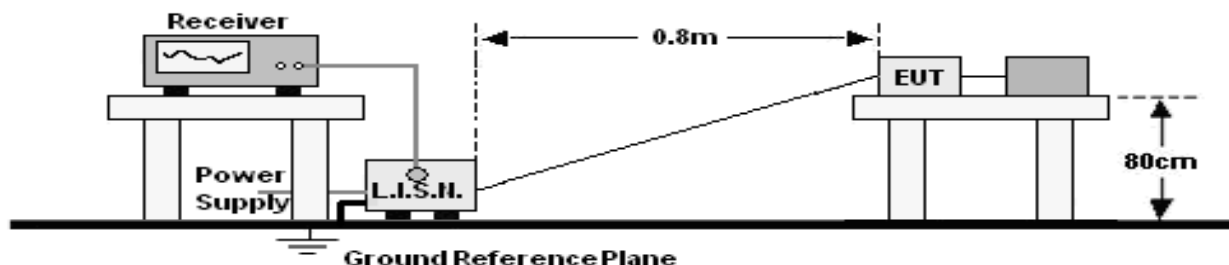
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Communication test set	R&S	CMW500	126173	Nov. 11, 2024	Nov. 10, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

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	ESR	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESRP	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 21, 2025	May 20, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2026
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2025	May 20, 2026
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 14, 2025	May 13, 2026
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2025	May 20, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Communication test set	R&S	CMW500	126173	Nov. 11. 2024	Nov. 10, 2025
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

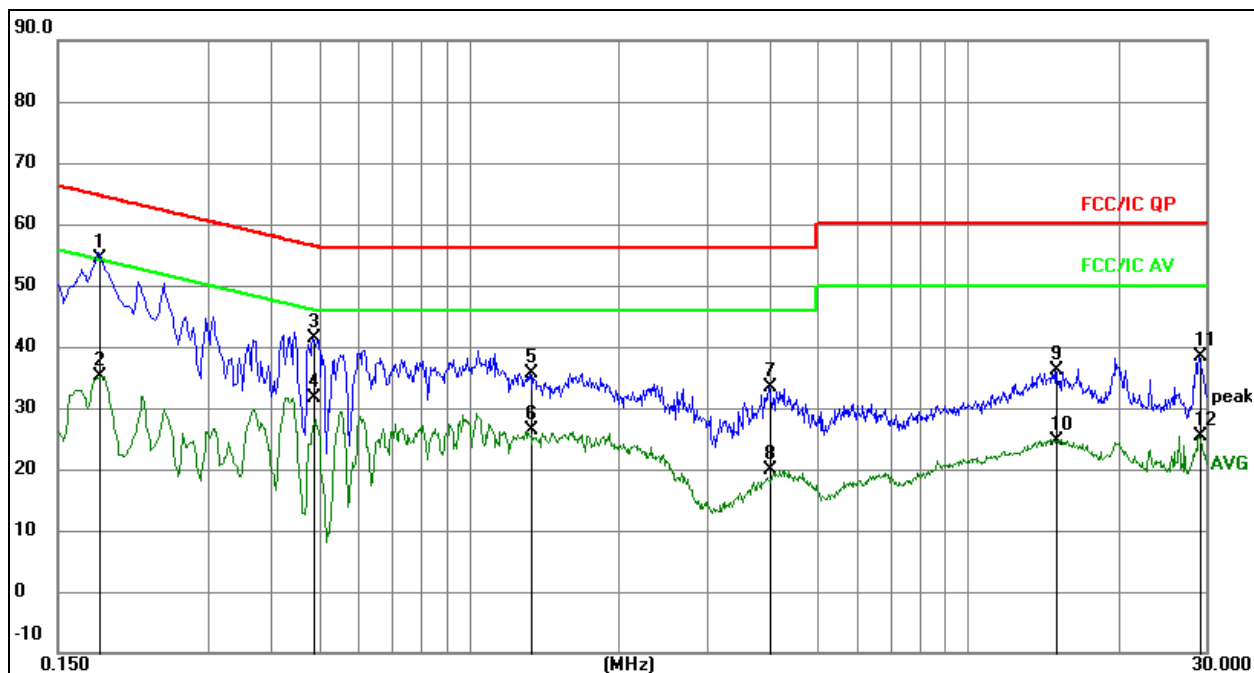
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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:	24.5 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz

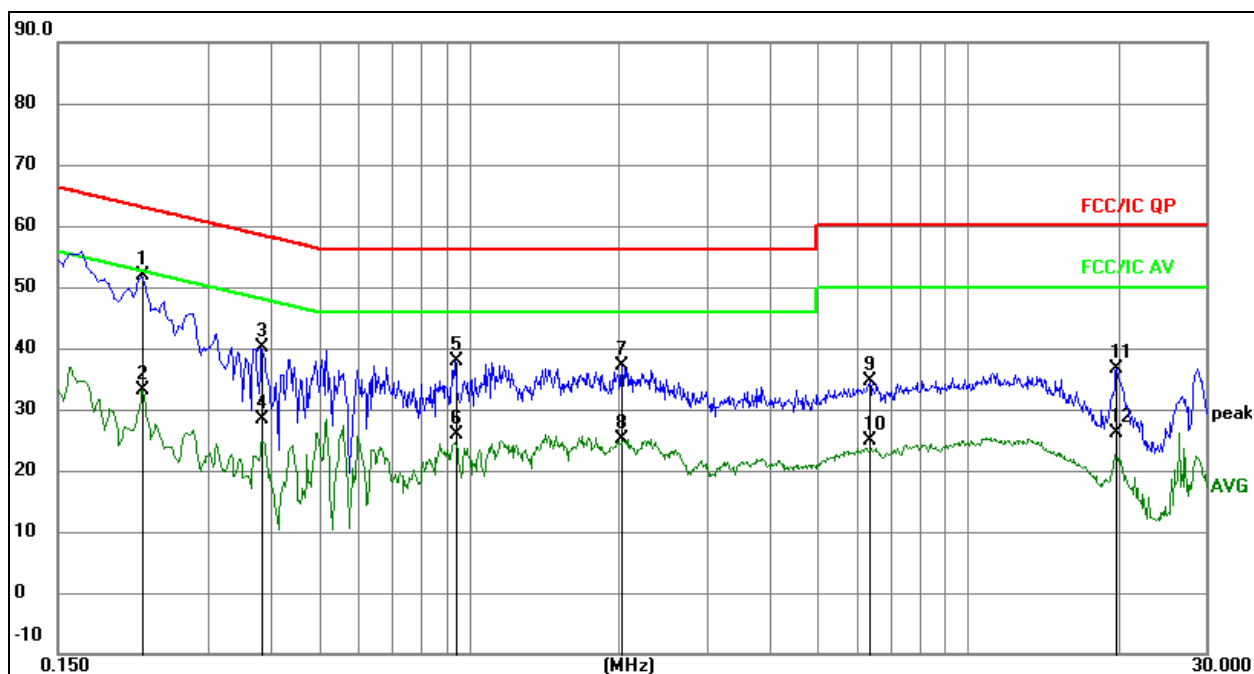


Remark:

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	*	0.1815	34.41	20.07	54.48	64.42	-9.94	QP
2		0.1815	15.13	20.07	35.20	54.42	-19.22	AVG
3		0.4875	21.37	20.08	41.45	56.21	-14.76	QP
4		0.4875	11.50	20.08	31.58	46.21	-14.63	AVG
5		1.3290	15.57	20.09	35.66	56.00	-20.34	QP
6		1.3290	6.33	20.09	26.42	46.00	-19.58	AVG
7		3.9930	13.30	20.14	33.44	56.00	-22.56	QP
8		3.9930	-0.26	20.14	19.88	46.00	-26.12	AVG
9		15.0000	15.71	20.31	36.02	60.00	-23.98	QP
10		15.0000	4.28	20.31	24.59	50.00	-25.41	AVG
11		29.1300	18.18	20.28	38.46	60.00	-21.54	QP
12		29.1300	5.09	20.28	25.37	50.00	-24.63	AVG

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz


Remark:

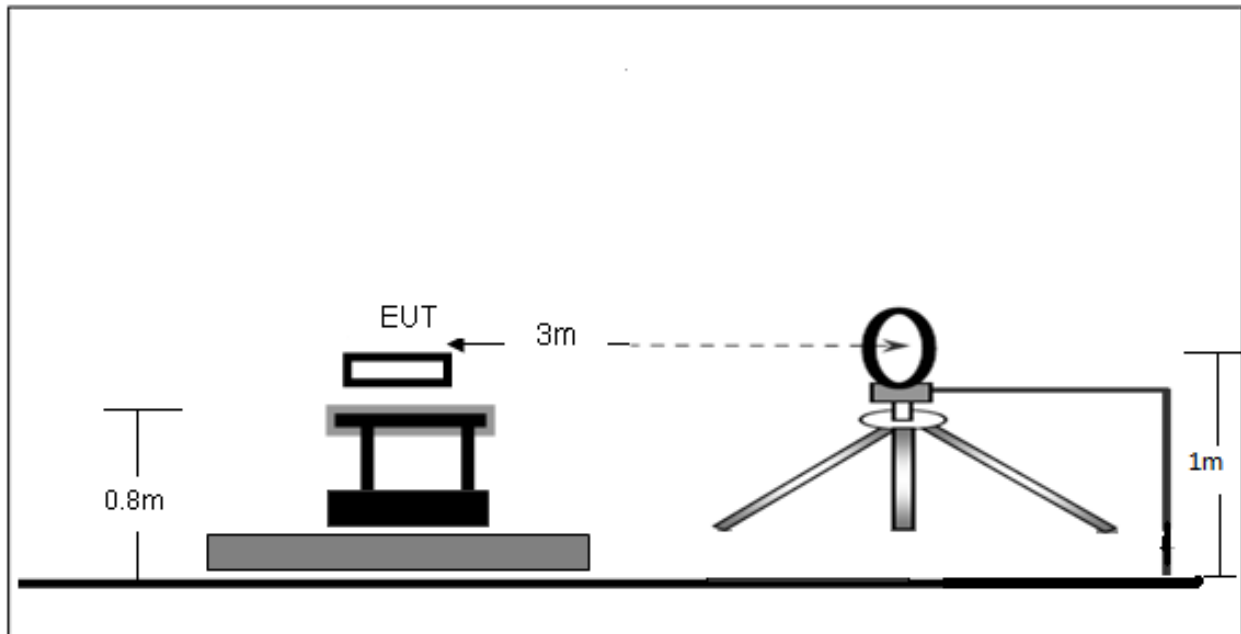
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1	*	0.2220	31.79	20.07	51.86	62.74	-10.88	QP
2		0.2220	13.04	20.07	33.11	52.74	-19.63	AVG
3		0.3840	20.02	20.08	40.10	58.19	-18.09	QP
4		0.3840	8.29	20.08	28.37	48.19	-19.82	AVG
5		0.9420	17.89	20.09	37.98	56.00	-18.02	QP
6		0.9420	5.72	20.09	25.81	46.00	-20.19	AVG
7		2.0225	16.96	20.10	37.06	56.00	-18.94	QP
8		2.0225	5.03	20.10	25.13	46.00	-20.87	AVG
9		6.3520	14.56	20.16	34.72	60.00	-25.28	QP
10		6.3520	4.80	20.16	24.96	50.00	-25.04	AVG
11		19.8445	16.29	20.33	36.62	60.00	-23.38	QP
12		19.8445	5.79	20.33	26.12	50.00	-23.88	AVG

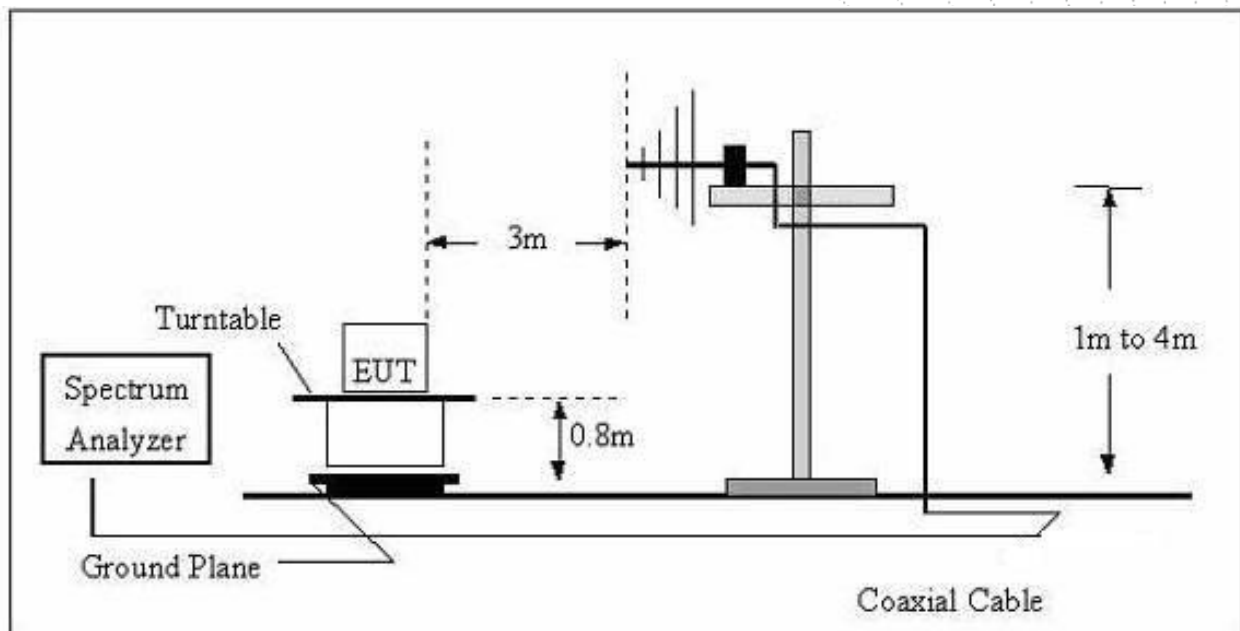
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

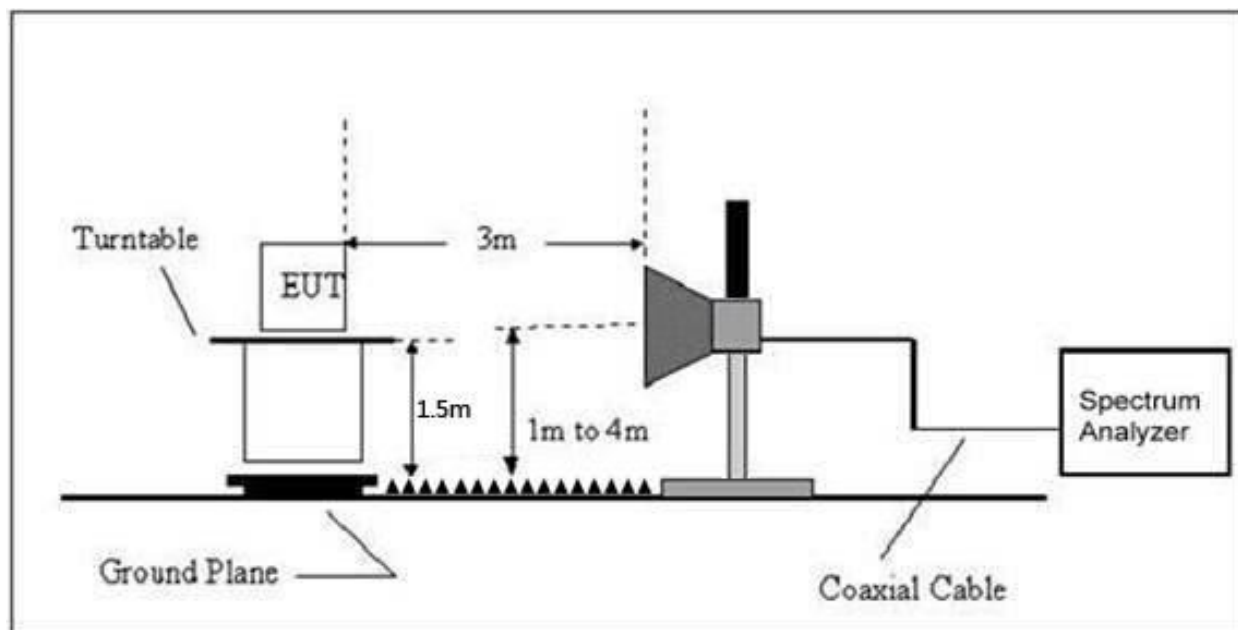
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 C63.10-2013. 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:	22.6 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 4	Polarization :	--

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

Note:

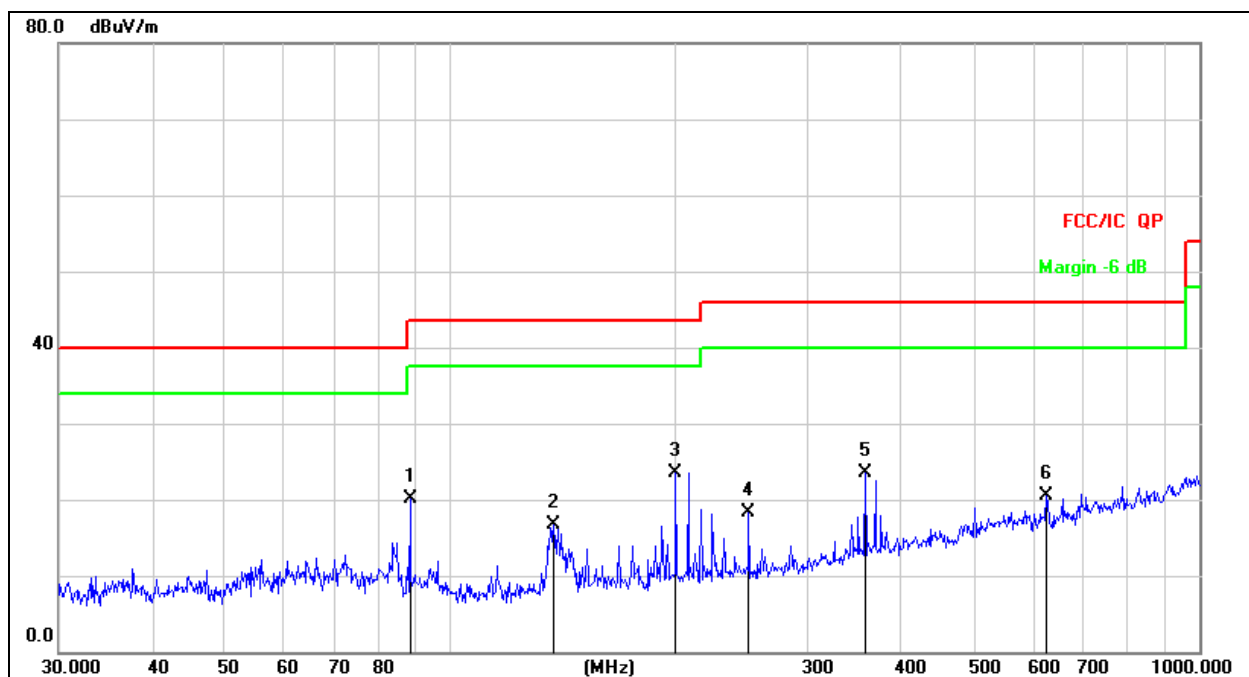
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	22.6 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage:	AC120V/60Hz

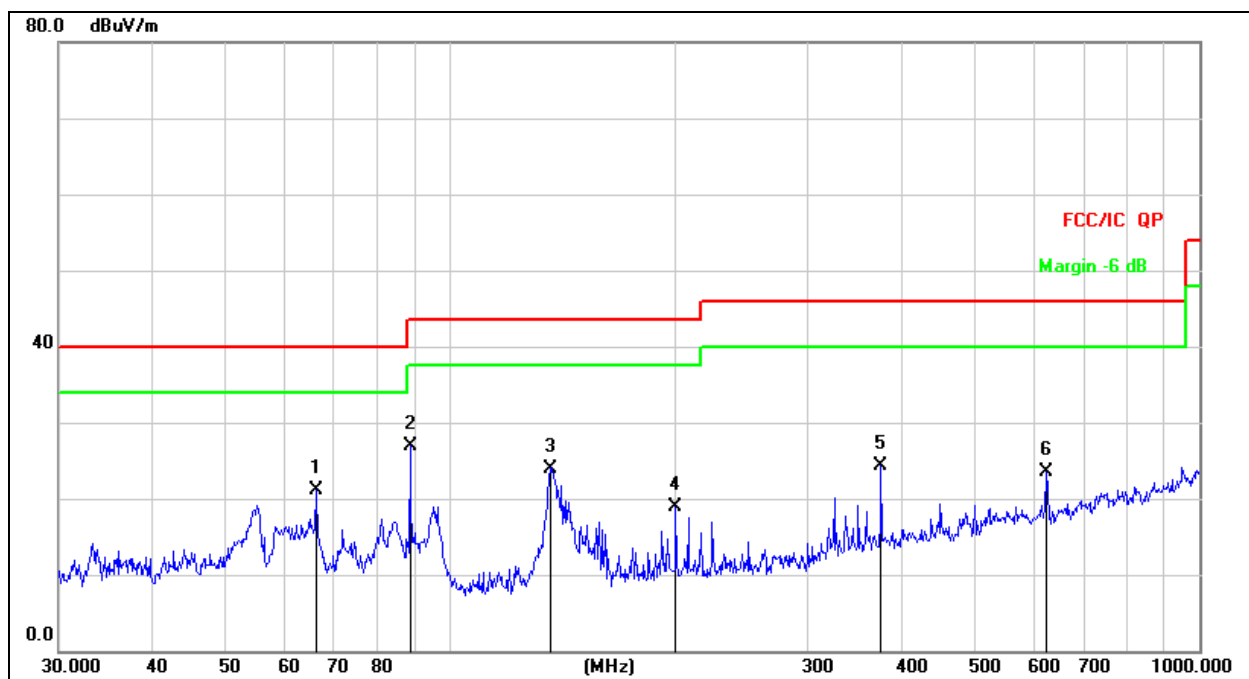


Remark:

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	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		88.3421	35.67	-15.57	20.10	43.50	-23.40	QP
2		137.4202	32.00	-15.37	16.63	43.50	-26.87	QP
3	*	199.9856	37.89	-14.39	23.50	43.50	-20.00	QP
4		250.3012	31.55	-13.28	18.27	46.00	-27.73	QP
5		357.9287	34.35	-10.90	23.45	46.00	-22.55	QP
6		625.0780	26.62	-6.08	20.54	46.00	-25.46	QP

Temperature:	22.6 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage:	AC120V/60Hz



Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		66.2662	35.86	-14.84	21.02	40.00	-18.98	QP
2	*	88.3421	42.40	-15.57	26.83	43.50	-16.67	QP
3		135.9822	39.39	-15.39	24.00	43.50	-19.50	QP
4		199.9856	33.36	-14.39	18.97	43.50	-24.53	QP
5		375.9385	34.80	-10.51	24.29	46.00	-21.71	QP
6		625.0780	29.57	-6.08	23.49	46.00	-22.51	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	4434.036	74.02	-20.73	53.28	68.2	-14.92	PK
Vertical	4434.036	59.93	-20.73	39.19	54	-14.81	AV
Vertical	10360.187	60.55	-9.36	51.19	68.2	-17.01	PK
Vertical	10360.187	49.46	-9.36	40.10	54	-13.90	AV
Vertical	15540.051	60.47	-7.84	52.63	74	-21.37	PK
Vertical	15540.051	49.53	-7.84	41.69	54	-12.31	AV
Horizontal	4434.038	71.83	-20.73	51.10	68.2	-17.10	PK
Horizontal	4434.038	59.91	-20.73	39.18	54	-14.82	AV
Horizontal	10360.155	60.48	-9.36	51.12	68.2	-17.08	PK
Horizontal	10360.155	49.35	-9.36	39.99	54	-14.01	AV
Horizontal	15540.050	64.24	-7.84	56.40	74	-17.60	PK
Horizontal	15540.050	49.02	-7.84	41.18	54	-12.82	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.121	71.34	-20.42	50.92	74	-23.08	PK
Vertical	4592.121	59.59	-20.42	39.18	54	-14.82	AV
Vertical	10400.179	61.77	-9.30	52.47	68.2	-15.73	PK
Vertical	10400.179	49.46	-9.30	40.16	54	-13.84	AV
Vertical	15600.150	61.19	-7.82	53.37	74	-20.63	PK
Vertical	15600.150	49.65	-7.82	41.83	54	-12.17	AV
Horizontal	4592.110	72.86	-20.42	52.45	74	-21.55	PK
Horizontal	4592.110	59.43	-20.42	39.02	54	-14.98	AV
Horizontal	10400.145	62.47	-9.30	53.17	68.2	-15.03	PK
Horizontal	10400.145	49.45	-9.30	40.15	54	-13.85	AV
Horizontal	15600.061	64.21	-7.82	56.39	74	-17.61	PK
Horizontal	15600.061	49.46	-7.82	41.64	54	-12.36	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.008	70.27	-20.12	50.15	74	-23.85	PK
Vertical	4739.008	59.80	-20.12	39.67	54	-14.33	AV
Vertical	10480.006	62.07	-9.18	52.89	68.2	-15.31	PK
Vertical	10480.006	49.41	-9.18	40.23	54	-13.77	AV
Vertical	15720.132	60.94	-7.78	53.16	74	-20.84	PK
Vertical	15720.132	49.61	-7.78	41.83	54	-12.17	AV
Horizontal	4739.033	70.97	-20.12	50.84	74	-23.16	PK
Horizontal	4739.033	59.31	-20.12	39.18	54	-14.82	AV
Horizontal	10480.126	63.46	-9.18	54.28	68.2	-13.92	PK
Horizontal	10480.126	49.40	-9.18	40.22	54	-13.78	AV
Horizontal	15720.049	62.25	-7.78	54.47	74	-19.53	PK
Horizontal	15720.049	49.39	-7.78	41.61	54	-12.39	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	4434.147	73.14	-20.73	52.41	68.2	-15.79	PK
Vertical	4434.147	59.50	-20.73	38.77	54	-15.23	AV
Vertical	10360.080	60.58	-9.36	51.22	68.2	-16.98	PK
Vertical	10360.080	49.84	-9.36	40.48	54	-13.52	AV
Vertical	15540.051	63.78	-7.84	55.94	74	-18.06	PK
Vertical	15540.051	49.37	-7.84	41.53	54	-12.47	AV
Horizontal	4434.151	74.56	-20.73	53.83	68.2	-14.37	PK
Horizontal	4434.151	59.48	-20.73	38.75	54	-15.25	AV
Horizontal	10360.049	61.49	-9.36	52.13	68.2	-16.07	PK
Horizontal	10360.049	49.01	-9.36	39.65	54	-14.35	AV
Horizontal	15540.050	64.57	-7.84	56.73	74	-17.27	PK
Horizontal	15540.050	49.72	-7.84	41.88	54	-12.12	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.034	70.47	-20.42	50.06	74	-23.94	PK
Vertical	4592.034	59.39	-20.42	38.97	54	-15.03	AV
Vertical	10400.166	63.85	-9.30	54.55	68.2	-13.65	PK
Vertical	10400.166	49.54	-9.30	40.24	54	-13.76	AV
Vertical	15600.095	63.96	-7.82	56.14	74	-17.86	PK
Vertical	15600.095	49.38	-7.82	41.56	54	-12.44	AV
Horizontal	4592.134	72.99	-20.42	52.57	74	-21.43	PK
Horizontal	4592.134	59.30	-20.42	38.88	54	-15.12	AV
Horizontal	10400.134	64.28	-9.30	54.98	68.2	-13.22	PK
Horizontal	10400.134	49.13	-9.30	39.83	54	-14.17	AV
Horizontal	15600.141	60.36	-7.82	52.54	74	-21.46	PK
Horizontal	15600.141	49.30	-7.82	41.48	54	-12.52	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.086	72.11	-20.12	51.99	74	-22.01	PK
Vertical	4739.086	59.94	-20.12	39.82	54	-14.18	AV
Vertical	10480.003	63.72	-9.18	54.54	68.2	-13.66	PK
Vertical	10480.003	49.36	-9.18	40.18	54	-13.82	AV
Vertical	15720.060	62.38	-7.78	54.60	74	-19.40	PK
Vertical	15720.060	49.56	-7.78	41.78	54	-12.22	AV
Horizontal	4739.076	71.74	-20.12	51.62	74	-22.38	PK
Horizontal	4739.076	59.18	-20.12	39.05	54	-14.95	AV
Horizontal	10480.100	64.11	-9.18	54.93	68.2	-13.27	PK
Horizontal	10480.100	49.27	-9.18	40.09	54	-13.91	AV
Horizontal	15720.162	62.66	-7.78	54.88	74	-19.12	PK
Horizontal	15720.162	49.83	-7.78	42.05	54	-11.95	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	4434.152	70.32	-20.73	49.59	68.2	-18.61	PK
Vertical	4434.152	59.84	-20.73	39.11	54	-14.89	AV
Vertical	10380.141	64.71	-9.33	55.38	68.2	-12.82	PK
Vertical	10380.141	49.22	-9.33	39.89	54	-14.11	AV
Vertical	15570.087	63.08	-7.83	55.25	74	-18.75	PK
Vertical	15570.087	49.54	-7.83	41.71	54	-12.29	AV
Horizontal	4434.138	72.59	-20.73	51.86	74	-22.14	PK
Horizontal	4434.138	59.61	-20.73	38.88	54	-15.12	AV
Horizontal	10380.013	60.23	-9.33	50.90	68.2	-17.30	PK
Horizontal	10380.013	49.98	-9.33	40.65	54	-13.35	AV
Horizontal	15570.036	63.88	-7.83	56.05	74	-17.95	PK
Horizontal	15570.036	49.37	-7.83	41.54	54	-12.46	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.007	72.28	-20.12	52.16	68.2	-16.04	PK
Vertical	4739.007	59.47	-20.12	39.35	54	-14.65	AV
Vertical	10460.059	63.83	-9.21	54.62	68.2	-13.58	PK
Vertical	10460.059	49.31	-9.21	40.10	54	-13.90	AV
Vertical	15690.177	60.23	-7.79	52.44	74	-21.56	PK
Vertical	15690.177	49.43	-7.79	41.64	54	-12.36	AV
Horizontal	4739.121	72.45	-20.12	52.32	68.2	-15.88	PK
Horizontal	4739.121	59.30	-20.12	39.18	54	-14.82	AV
Horizontal	10460.013	62.19	-9.21	52.98	68.2	-15.22	PK
Horizontal	10460.013	49.43	-9.21	40.22	54	-13.78	AV
Horizontal	15690.127	64.62	-7.79	56.83	74	-17.17	PK
Horizontal	15690.127	49.77	-7.79	41.98	54	-12.02	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ac-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	4434.072	70.81	-20.73	50.08	68.2	-18.12	PK
Vertical	4434.072	59.62	-20.73	38.89	54	-15.11	AV
Vertical	10360.185	63.85	-9.36	54.49	68.2	-13.71	PK
Vertical	10360.185	49.16	-9.36	39.80	54	-14.20	AV
Vertical	15540.025	65.00	-7.84	57.16	74	-16.84	PK
Vertical	15540.025	49.21	-7.84	41.37	54	-12.63	AV
Horizontal	4434.162	71.11	-20.73	50.38	68.2	-17.82	PK
Horizontal	4434.162	59.45	-20.73	38.72	54	-15.28	AV
Horizontal	10360.020	63.44	-9.36	54.08	68.2	-14.12	PK
Horizontal	10360.020	49.20	-9.36	39.84	54	-14.16	AV
Horizontal	15540.139	64.40	-7.84	56.56	74	-17.44	PK
Horizontal	15540.139	49.65	-7.84	41.81	54	-12.19	AV
Middle Channel (5200 MHz)-Above 1G							
Vertical	4592.141	70.16	-20.42	49.74	74	-24.26	PK
Vertical	4592.141	59.89	-20.42	39.47	54	-14.53	AV
Vertical	10400.123	61.70	-9.30	52.40	68.2	-15.80	PK
Vertical	10400.123	49.48	-9.30	40.18	54	-13.82	AV
Vertical	15600.119	60.51	-7.82	52.69	74	-21.31	PK
Vertical	15600.119	49.41	-7.82	41.59	54	-12.41	AV
Horizontal	4592.162	74.87	-20.42	54.45	74	-19.55	PK
Horizontal	4592.162	59.49	-20.42	39.07	54	-14.93	AV
Horizontal	10400.005	62.33	-9.30	53.03	68.2	-15.17	PK
Horizontal	10400.005	49.75	-9.30	40.45	54	-13.55	AV
Horizontal	15600.071	63.48	-7.82	55.66	74	-18.34	PK
Horizontal	15600.071	49.49	-7.82	41.67	54	-12.33	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.137	73.03	-20.12	52.91	74	-21.09	PK
Vertical	4739.137	59.15	-20.12	39.03	54	-14.97	AV
Vertical	10480.043	64.56	-9.18	55.38	68.2	-12.82	PK
Vertical	10480.043	50.00	-9.18	40.82	54	-13.18	AV
Vertical	15720.194	62.06	-7.78	54.28	74	-19.72	PK
Vertical	15720.194	49.01	-7.78	41.23	54	-12.77	AV
Horizontal	4739.111	70.48	-20.12	50.35	74	-23.65	PK
Horizontal	4739.111	59.30	-20.12	39.18	54	-14.82	AV
Horizontal	10480.107	63.97	-9.18	54.79	68.2	-13.41	PK
Horizontal	10480.107	49.25	-9.18	40.07	54	-13.93	AV
Horizontal	15720.177	63.62	-7.78	55.84	74	-18.16	PK
Horizontal	15720.177	49.45	-7.78	41.67	54	-12.33	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ac-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	4434.047	70.36	-20.73	49.63	68.2	-18.57	PK
Vertical	4434.047	59.39	-20.73	38.66	54	-15.34	AV
Vertical	10380.060	64.47	-9.33	55.14	68.2	-13.06	PK
Vertical	10380.060	49.67	-9.33	40.34	54	-13.66	AV
Vertical	15570.084	60.81	-7.83	52.98	74	-21.02	PK
Vertical	15570.084	49.25	-7.83	41.42	54	-12.58	AV
Horizontal	4434.122	73.81	-20.73	53.08	74	-20.92	PK
Horizontal	4434.122	59.05	-20.73	38.32	54	-15.68	AV
Horizontal	10380.182	63.43	-9.33	54.10	68.2	-14.10	PK
Horizontal	10380.182	49.22	-9.33	39.89	54	-14.11	AV
Horizontal	15570.179	62.28	-7.83	54.45	74	-19.55	PK
Horizontal	15570.179	49.65	-7.83	41.82	54	-12.18	AV
Middle Channel (5230 MHz)-Above 1G							
Vertical	4739.130	74.82	-20.12	54.70	68.2	-13.50	PK
Vertical	4739.130	59.02	-20.12	38.89	54	-15.11	AV
Vertical	10460.137	62.05	-9.21	52.84	68.2	-15.36	PK
Vertical	10460.137	49.72	-9.21	40.51	54	-13.49	AV
Vertical	15690.023	60.19	-7.79	52.40	74	-21.60	PK
Vertical	15690.023	49.91	-7.79	42.12	54	-11.88	AV
Horizontal	4739.115	71.56	-20.12	51.44	68.2	-16.76	PK
Horizontal	4739.115	59.63	-20.12	39.50	54	-14.50	AV
Horizontal	10460.117	64.10	-9.21	54.89	68.2	-13.31	PK
Horizontal	10460.117	49.34	-9.21	40.13	54	-13.87	AV
Horizontal	15690.036	60.94	-7.79	53.15	74	-20.85	PK
Horizontal	15690.036	49.63	-7.79	41.84	54	-12.16	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	4434.142	70.80	-20.73	50.07	68.2	-18.13	PK
Vertical	4434.142	59.29	-20.73	38.56	54	-15.44	AV
Vertical	10420.195	63.75	-9.27	54.48	68.2	-13.72	PK
Vertical	10420.195	49.98	-9.27	40.71	54	-13.29	AV
Vertical	15630.078	64.27	-7.81	56.46	74	-17.54	PK
Vertical	15630.078	49.48	-7.81	41.67	54	-12.33	AV
Horizontal	4434.089	73.83	-20.73	53.10	68.2	-15.10	PK
Horizontal	4434.089	59.77	-20.73	39.04	54	-14.96	AV
Horizontal	10420.001	44.52	9.27	53.79	68.2	-14.41	PK
Horizontal	10420.001	29.58	9.27	38.85	54	-15.15	AV
Horizontal	15630.000	62.94	-7.81	55.13	74	-18.87	PK
Horizontal	15630.000	49.01	-7.81	41.20	54	-12.80	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) -- 802.11a
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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	4679.093	73.67	-20.24	53.43	74	-20.57	PK
Vertical	4679.093	59.36	-20.24	39.12	54	-14.88	AV
Vertical	11490.078	63.81	-8.79	55.02	68.2	-13.18	PK
Vertical	11490.078	49.34	-8.79	40.55	54	-13.45	AV
Vertical	17235.114	58.25	-3.18	55.07	68.2	-13.13	PK
Vertical	17235.114	44.23	-3.18	41.05	54	-12.95	AV
Horizontal	4679.086	71.17	-20.73	50.44	74	-23.56	PK
Horizontal	4679.086	59.83	-20.73	39.10	54	-14.90	AV
Horizontal	11490.162	63.21	-8.79	54.42	68.2	-13.78	PK
Horizontal	11490.162	49.07	-8.79	40.28	54	-13.72	AV
Horizontal	17235.067	57.17	-3.18	53.99	68.2	-14.21	PK
Horizontal	17235.067	44.62	-3.18	41.44	54	-12.56	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.057	73.24	-20.42	52.83	74	-21.17	PK
Vertical	4592.057	60.00	-20.42	39.58	54	-14.42	AV
Vertical	11570.044	61.72	-8.86	52.86	68.2	-15.34	PK
Vertical	11570.044	49.27	-8.86	40.41	54	-13.59	AV
Vertical	17355.153	59.52	-2.52	57.00	68.2	-11.20	PK
Vertical	17355.153	44.48	-2.52	41.96	54	-12.04	AV
Horizontal	4592.183	72.96	-20.42	52.55	74	-21.45	PK
Horizontal	4592.183	59.71	-20.42	39.30	54	-14.70	AV
Horizontal	11570.177	62.07	-8.86	53.21	68.2	-14.99	PK
Horizontal	11570.177	49.59	-8.86	40.73	54	-13.27	AV
Horizontal	17355.141	55.15	-2.52	52.63	68.2	-15.57	PK
Horizontal	17355.141	44.51	-2.52	41.99	54	-12.01	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.144	74.90	-18.93	55.97	68.2	-12.23	PK
Vertical	6039.144	59.16	-18.93	40.23	54	-13.77	AV
Vertical	11650.036	63.20	-8.92	54.28	74	-19.72	PK
Vertical	11650.036	49.85	-8.92	40.93	54	-13.07	AV
Vertical	17475.029	59.92	-1.86	58.06	68.2	-10.14	PK
Vertical	17475.029	44.42	-1.86	42.56	54	-11.44	AV
Horizontal	6039.006	72.27	-18.93	53.34	68.2	-14.86	PK
Horizontal	6039.006	59.98	-18.93	41.05	54	-12.95	AV
Horizontal	11650.153	64.31	-8.92	55.39	74	-18.61	PK
Horizontal	11650.153	49.29	-8.92	40.37	54	-13.63	AV
Horizontal	17475.164	58.05	-1.86	56.19	68.2	-12.01	PK
Horizontal	17475.164	44.78	-1.86	42.92	54	-11.08	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	4679.051	71.90	-20.24	51.66	74	-22.34	PK
Vertical	4679.051	59.51	-20.24	39.27	54	-14.73	AV
Vertical	11490.102	62.57	-8.79	53.78	68.2	-14.42	PK
Vertical	11490.102	49.09	-8.79	40.30	54	-13.70	AV
Vertical	17235.111	56.84	-3.18	53.66	68.2	-14.54	PK
Vertical	17235.111	44.08	-3.18	40.90	54	-13.10	AV
Horizontal	4679.119	71.29	-20.24	51.05	74	-22.95	PK
Horizontal	4679.119	59.30	-20.24	39.05	54	-14.95	AV
Horizontal	11490.008	60.34	-8.79	51.55	68.2	-16.65	PK
Horizontal	11490.008	49.83	-8.79	41.04	54	-12.96	AV
Horizontal	17235.077	56.36	-3.18	53.18	68.2	-15.02	PK
Horizontal	17235.077	44.17	-3.18	40.99	54	-13.01	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.041	70.50	-20.42	50.09	74	-23.91	PK
Vertical	4592.041	59.51	-20.42	39.09	54	-14.91	AV
Vertical	11570.133	61.08	-8.86	52.22	68.2	-15.98	PK
Vertical	11570.133	49.19	-8.86	40.33	54	-13.67	AV
Vertical	17355.028	57.32	-2.52	54.80	68.2	-13.40	PK
Vertical	17355.028	44.57	-2.52	42.05	54	-11.95	AV
Horizontal	4592.063	70.34	-20.42	49.93	74	-24.07	PK
Horizontal	4592.063	59.73	-20.42	39.31	54	-14.69	AV
Horizontal	11570.072	62.16	-8.86	53.30	68.2	-14.90	PK
Horizontal	11570.072	49.94	-8.86	41.08	54	-12.92	AV
Horizontal	17355.027	58.49	-2.52	55.97	68.2	-12.23	PK
Horizontal	17355.027	44.89	-2.52	42.37	54	-11.63	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.160	72.36	-18.93	53.43	68.2	-14.77	PK
Vertical	6039.160	59.32	-18.93	40.39	54	-13.61	AV
Vertical	11650.014	64.99	-8.92	56.07	74	-17.93	PK
Vertical	11650.014	49.56	-8.92	40.64	54	-13.36	AV
Vertical	17475.085	56.47	-1.86	54.61	68.2	-13.59	PK
Vertical	17475.085	44.58	-1.86	42.72	54	-11.28	AV
Horizontal	6039.087	71.03	-18.93	52.09	68.2	-16.11	PK
Horizontal	6039.087	59.48	-18.93	40.55	54	-13.45	AV
Horizontal	11650.025	61.92	-8.92	53.00	74	-21.00	PK
Horizontal	11650.025	49.63	-8.92	40.71	54	-13.29	AV
Horizontal	17475.160	59.56	-1.86	57.70	68.2	-10.50	PK
Horizontal	17475.160	44.19	-1.86	42.33	54	-11.67	AV

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

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

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

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

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	4679.134	73.58	-20.24	53.34	74	-20.66	PK
Vertical	4679.134	59.49	-20.24	39.25	54	-14.75	AV
Vertical	11510.046	62.35	-8.81	53.54	74	-20.46	PK
Vertical	11510.046	49.16	-8.81	40.35	54	-13.65	AV
Vertical	17265.155	59.47	-3.01	56.46	68.2	-11.74	PK
Vertical	17265.155	44.55	-3.01	41.54	54	-12.46	AV
Horizontal	4679.170	74.47	-20.24	54.23	74	-19.77	PK
Horizontal	4679.170	59.45	-20.24	39.21	54	-14.79	AV
Horizontal	11510.188	62.39	-8.81	53.58	74	-20.42	PK
Horizontal	11510.188	49.41	-8.81	40.60	54	-13.40	AV
Horizontal	17265.042	56.46	-3.01	53.45	68.2	-14.75	PK
Horizontal	17265.042	44.63	-3.01	41.62	54	-12.38	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.155	73.94	-18.93	55.01	68.2	-13.19	PK
Vertical	6039.155	59.48	-18.93	40.55	54	-13.45	AV
Vertical	11590.016	62.60	-8.87	53.73	74	-20.27	PK
Vertical	11590.016	49.04	-8.87	40.17	54	-13.83	AV
Vertical	17385.139	56.28	-2.35	53.93	68.2	-14.27	PK
Vertical	17385.139	44.69	-2.35	42.34	54	-11.66	AV
Horizontal	6039.076	70.49	-18.93	51.56	68.2	-16.64	PK
Horizontal	6039.076	59.30	-18.93	40.36	54	-13.64	AV
Horizontal	11590.064	61.96	-8.87	53.09	74	-20.91	PK
Horizontal	11590.064	49.22	-8.87	40.35	54	-13.65	AV
Horizontal	17385.028	57.12	-2.35	54.77	68.2	-13.43	PK
Horizontal	17385.028	44.97	-2.35	42.62	54	-11.38	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	4679.130	74.75	-20.24	54.51	74	-19.49	PK
Vertical	4679.130	59.00	-20.24	38.76	54	-15.24	AV
Vertical	11490.180	62.74	-8.79	53.95	68.2	-14.25	PK
Vertical	11490.180	49.57	-8.79	40.78	54	-13.22	AV
Vertical	17235.164	57.74	-3.18	54.56	68.2	-13.64	PK
Vertical	17235.164	44.52	-3.18	41.34	54	-12.66	AV
Horizontal	4679.009	73.19	-20.24	52.95	74	-21.05	PK
Horizontal	4679.009	59.11	-20.24	38.87	54	-15.13	AV
Horizontal	11490.021	62.89	-8.79	54.10	68.2	-14.10	PK
Horizontal	11490.021	49.35	-8.79	40.56	54	-13.44	AV
Horizontal	17235.187	57.46	-3.18	54.28	68.2	-13.92	PK
Horizontal	17235.187	44.78	-3.18	41.60	54	-12.40	AV
Middle Channel (5785 MHz)-Above 1G							
Vertical	4592.158	70.65	-20.42	50.24	74	-23.76	PK
Vertical	4592.158	59.36	-20.42	38.94	54	-15.06	AV
Vertical	11570.016	60.02	-8.86	51.16	68.2	-17.04	PK
Vertical	11570.016	49.61	-8.86	40.75	54	-13.25	AV
Vertical	17355.165	55.56	-2.52	53.04	68.2	-15.16	PK
Vertical	17355.165	44.05	-2.52	41.53	54	-12.47	AV
Horizontal	4592.158	71.08	-20.42	50.66	74	-23.34	PK
Horizontal	4592.158	59.38	-20.42	38.96	54	-15.04	AV
Horizontal	11570.154	62.26	-8.86	53.40	68.2	-14.80	PK
Horizontal	11570.154	49.63	-8.86	40.77	54	-13.23	AV
Horizontal	17355.142	58.29	-2.52	55.77	68.2	-12.43	PK
Horizontal	17355.142	45.00	-2.52	42.48	54	-11.52	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.051	74.60	-18.93	55.67	68.2	-12.53	PK
Vertical	6039.051	59.51	-18.93	40.57	54	-13.43	AV
Vertical	11650.073	61.69	-8.92	52.77	74	-21.23	PK
Vertical	11650.073	49.61	-8.92	40.69	54	-13.31	AV
Vertical	17475.196	59.64	-1.86	57.78	68.2	-10.42	PK
Vertical	17475.196	44.56	-1.86	42.70	54	-11.30	AV
Horizontal	6039.192	74.64	-18.93	55.71	68.2	-12.49	PK
Horizontal	6039.192	59.97	-18.93	41.04	54	-12.96	AV
Horizontal	11650.006	63.17	-8.92	54.25	74	-19.75	PK
Horizontal	11650.006	49.30	-8.92	40.38	54	-13.62	AV
Horizontal	17475.109	59.19	-1.86	57.33	68.2	-10.87	PK
Horizontal	17475.109	44.61	-1.86	42.75	54	-11.25	AV

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

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

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

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

Test Mode :	TX (5.8G) -- 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.163	70.85	-20.24	50.61	74	-23.39	PK
Vertical	4679.163	59.98	-20.24	39.74	54	-14.26	AV
Vertical	11510.066	60.70	-8.81	51.89	74	-22.11	PK
Vertical	11510.066	49.38	-8.81	40.57	54	-13.43	AV
Vertical	17265.002	58.41	-3.01	55.40	68.2	-12.80	PK
Vertical	17265.002	44.23	-3.01	41.22	54	-12.78	AV
Horizontal	4679.083	72.89	-20.24	52.64	74	-21.36	PK
Horizontal	4679.083	59.63	-20.24	39.39	54	-14.61	AV
Horizontal	11510.132	64.80	-8.81	55.99	74	-18.01	PK
Horizontal	11510.132	49.04	-8.81	40.23	54	-13.77	AV
Horizontal	17265.047	59.38	-3.01	56.37	68.2	-11.83	PK
Horizontal	17265.047	44.88	-3.01	41.87	54	-12.13	AV
Middle Channel (5795 MHz)-Above 1G							
Vertical	6039.119	74.05	-18.93	55.11	68.2	-13.09	PK
Vertical	6039.119	59.50	-18.93	40.57	54	-13.43	AV
Vertical	11590.155	64.03	-8.87	55.16	74	-18.84	PK
Vertical	11590.155	49.44	-8.87	40.57	54	-13.43	AV
Vertical	17385.166	59.99	-2.35	57.64	68.2	-10.56	PK
Vertical	17385.166	44.69	-2.35	42.34	54	-11.66	AV
Horizontal	6039.167	73.00	-18.93	54.06	68.2	-14.14	PK
Horizontal	6039.167	59.85	-18.93	40.91	54	-13.09	AV
Horizontal	11590.123	63.61	-8.87	54.74	74	-19.26	PK
Horizontal	11590.123	49.30	-8.87	40.43	54	-13.57	AV
Horizontal	17385.157	59.45	-2.35	57.10	68.2	-11.10	PK
Horizontal	17385.157	44.24	-2.35	41.89	54	-12.11	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).

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

Test Mode :	TX (5.8G) -- 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 (5775 MHz)-Above 1G							
Vertical	4679.006	70.65	-20.24	50.41	74	-23.59	PK
Vertical	4679.006	59.82	-20.24	39.58	54	-14.42	AV
Vertical	11550.181	62.25	-8.84	53.41	74	-20.59	PK
Vertical	11550.181	49.65	-8.84	40.81	54	-13.19	AV
Vertical	17325.093	56.42	-2.68	53.74	68.2	-14.46	PK
Vertical	17325.093	44.89	-2.68	42.21	54	-11.79	AV
Horizontal	4679.020	71.03	-20.24	50.79	74	-23.21	PK
Horizontal	4679.020	59.68	-20.24	39.44	54	-14.56	AV
Horizontal	11550.034	60.58	-8.84	51.74	74	-22.26	PK
Horizontal	11550.034	49.51	-8.84	40.67	54	-13.33	AV
Horizontal	17325.150	59.33	-2.68	56.65	68.2	-11.55	PK
Horizontal	17325.150	44.57	-2.68	41.89	54	-12.11	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).

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

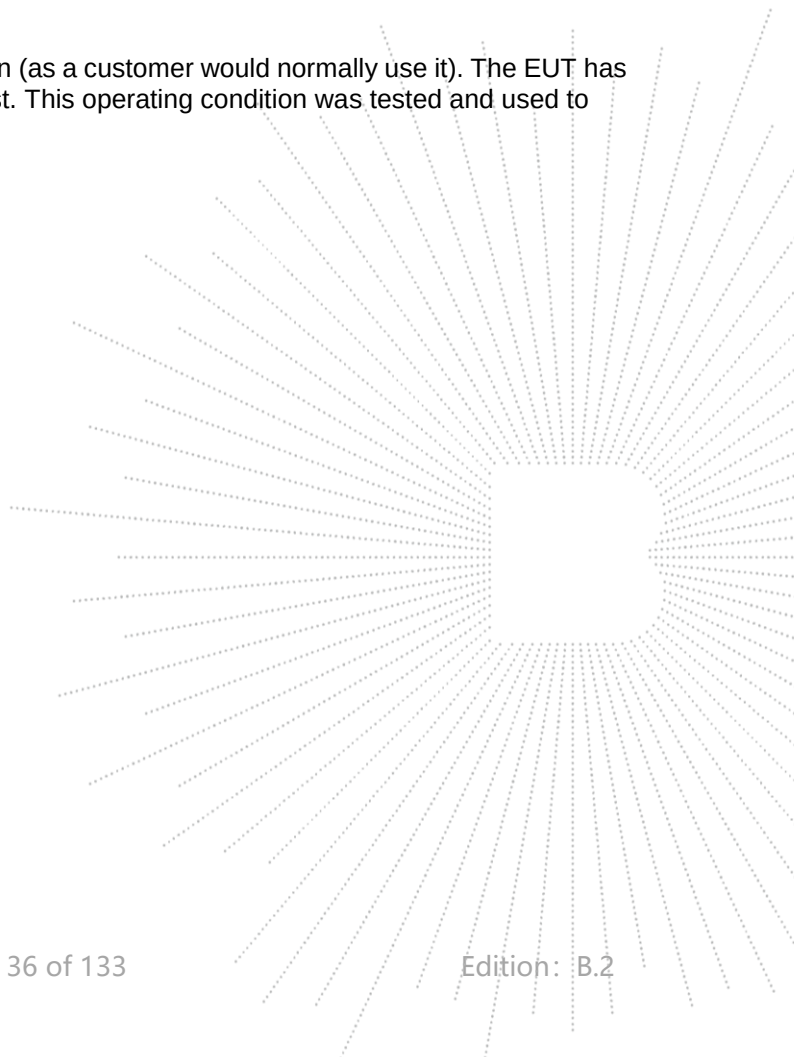
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of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



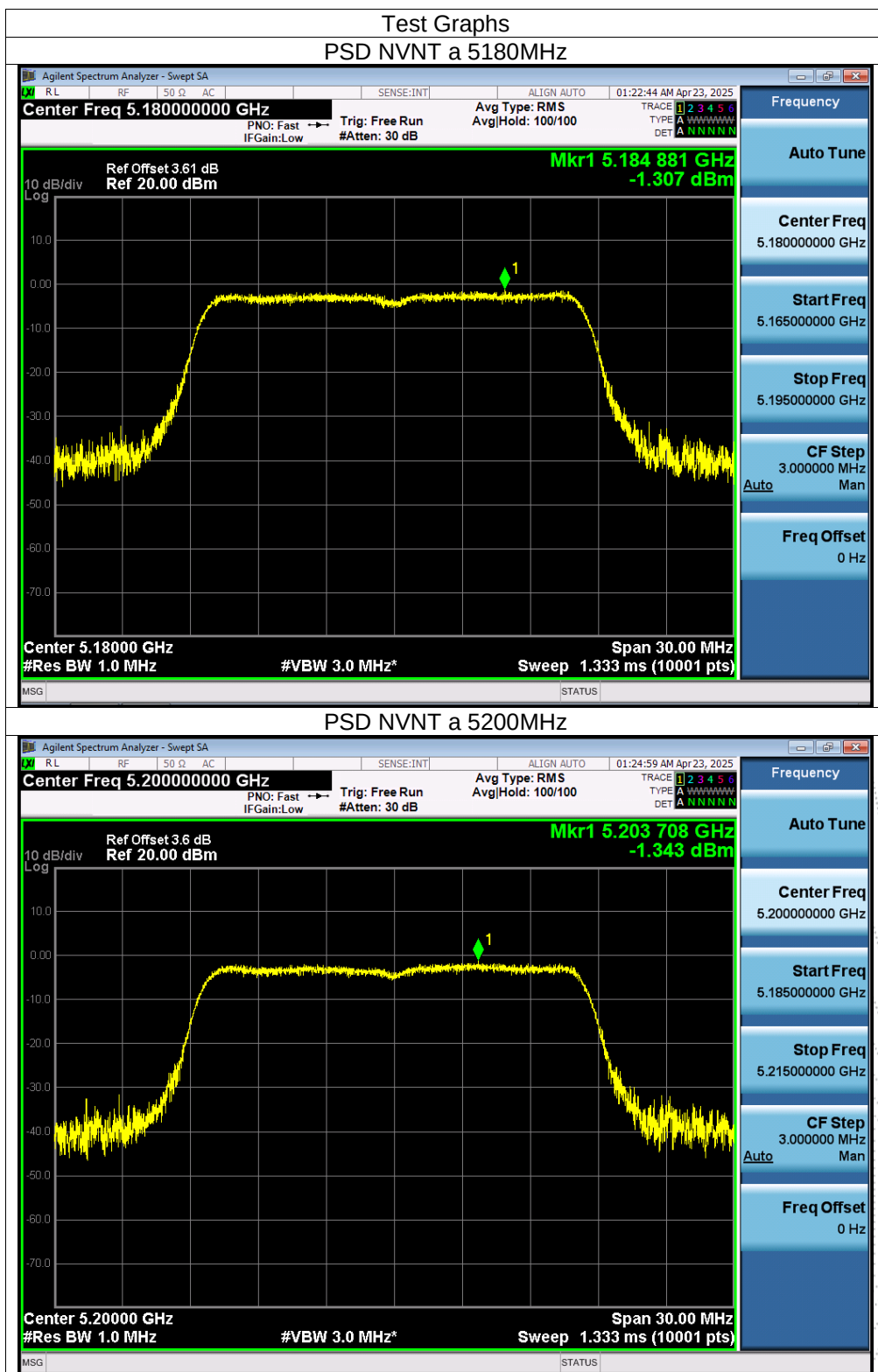
8.5 Test Result

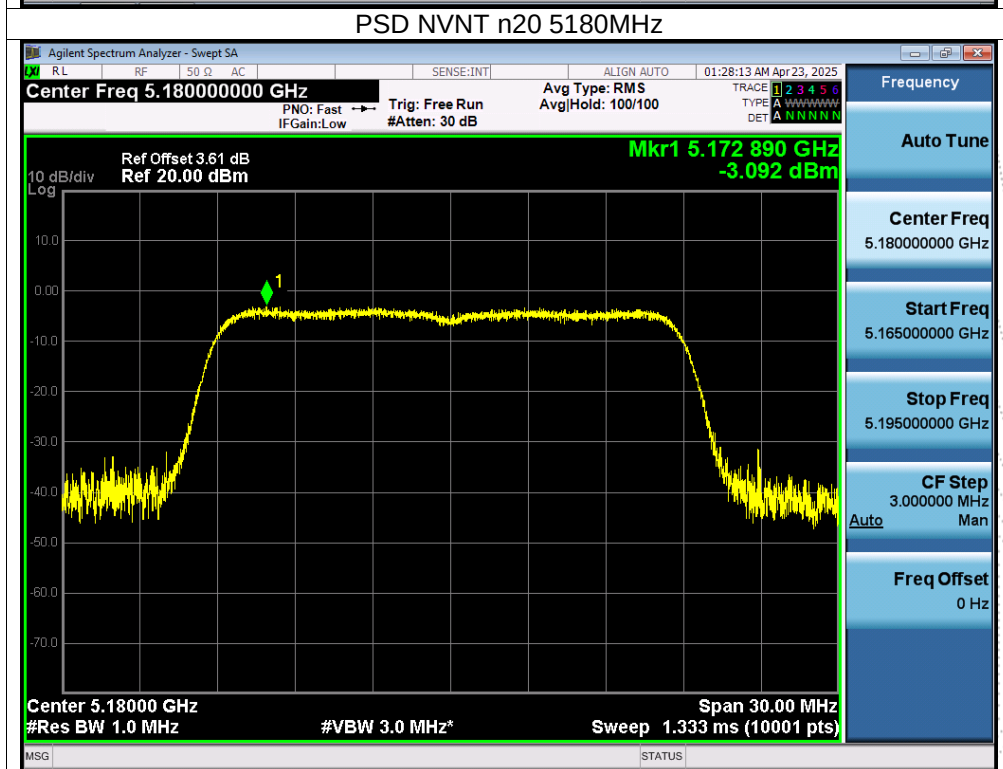
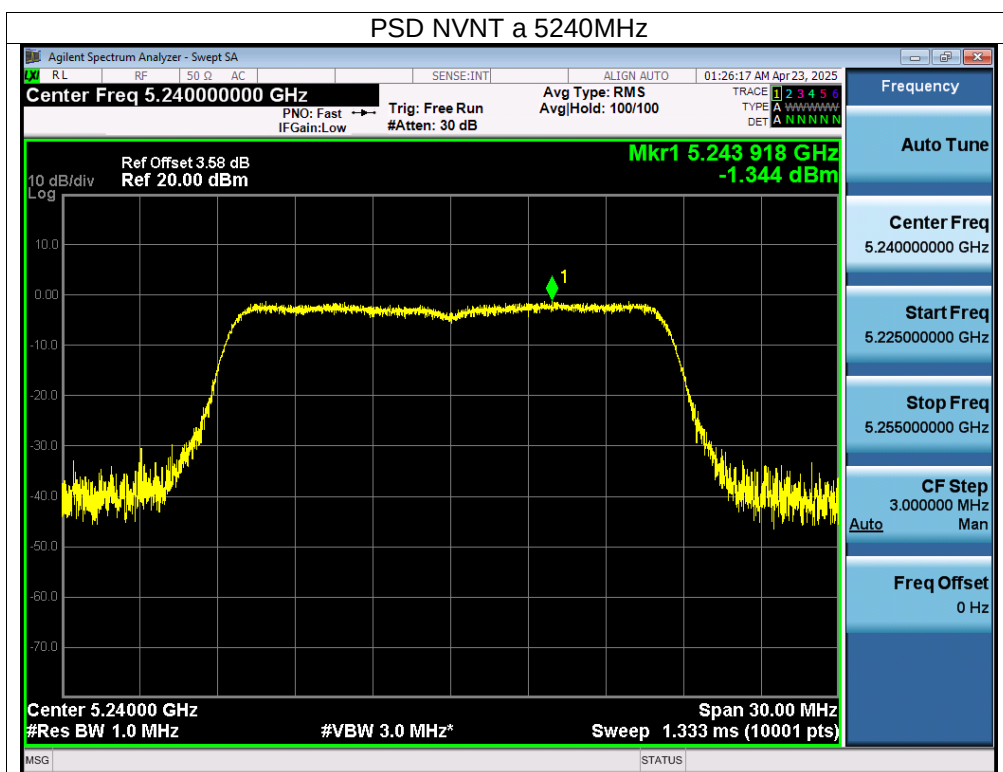
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.87V
Test Mode:	(U-NII-1) 5180MHz-5240MHz (U-NII-3) 5745MHz-5825MHz		

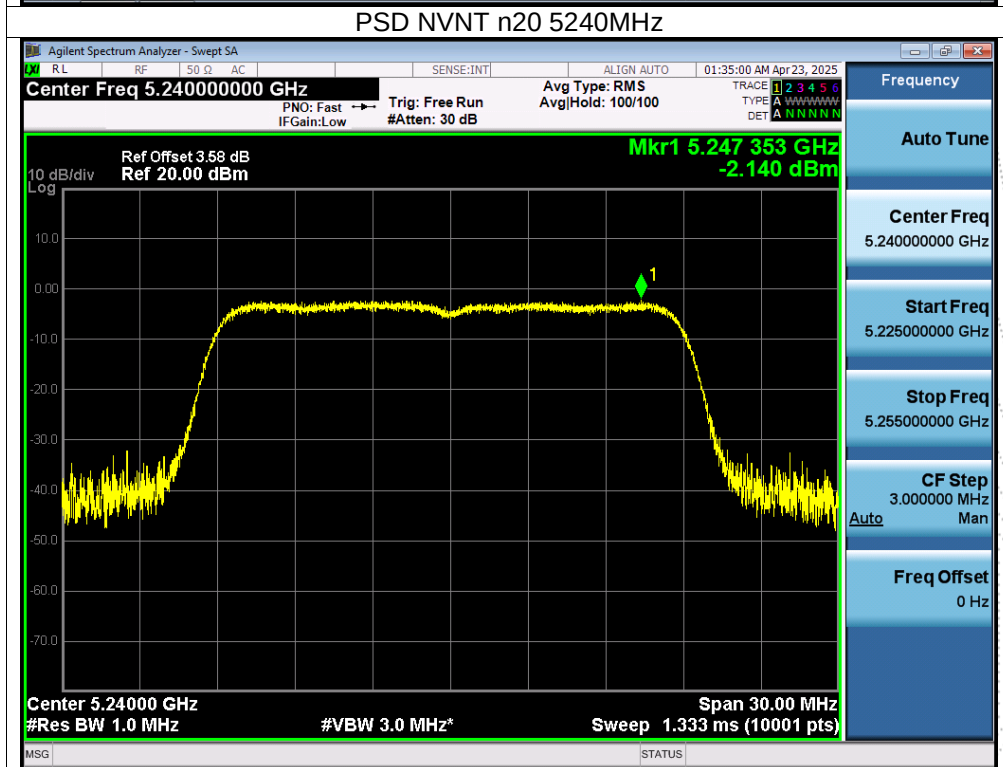
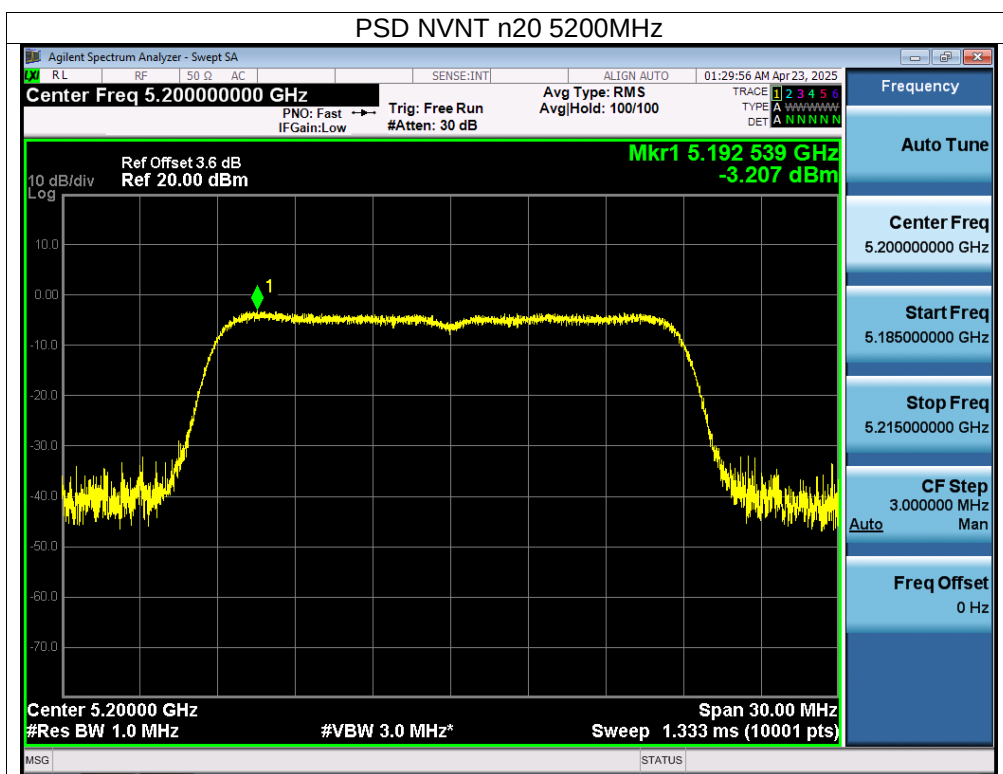
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	-1.31	11	Pass
NVNT	a	5200	-1.34	11	Pass
NVNT	a	5240	-1.34	11	Pass
NVNT	n20	5180	-3.09	11	Pass
NVNT	n20	5200	-3.21	11	Pass
NVNT	n20	5240	-2.14	11	Pass
NVNT	n40	5190	-6.99	11	Pass
NVNT	n40	5230	-6.5	11	Pass
NVNT	ac20	5180	-3.22	11	Pass
NVNT	ac20	5200	-2.95	11	Pass
NVNT	ac20	5240	-2.32	11	Pass
NVNT	ac40	5190	-6.64	11	Pass
NVNT	ac40	5230	-6.42	11	Pass
NVNT	ac80	5210	-11.59	11	Pass

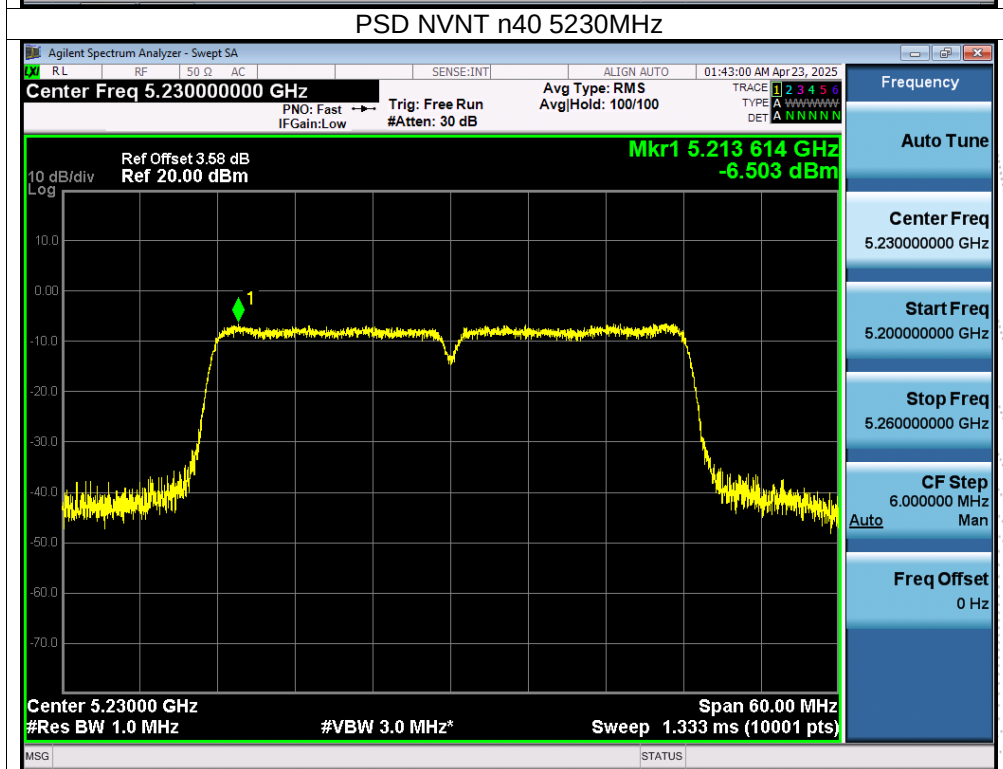
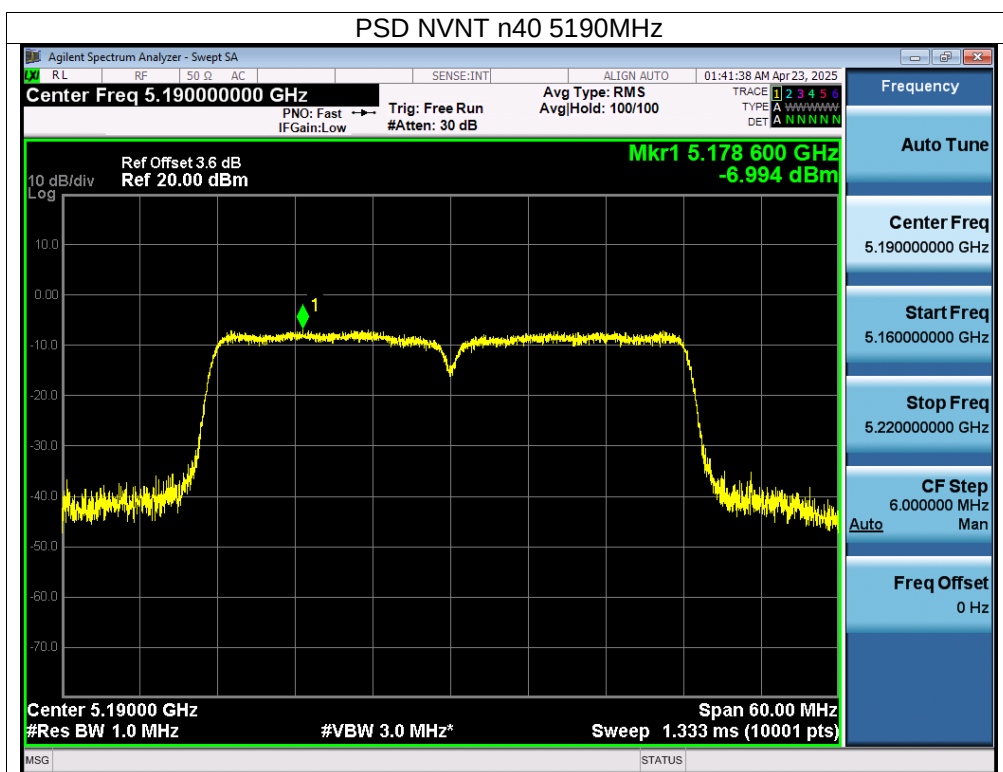
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/510KHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-4.16	-4.246	30	Pass
NVNT	a	5785	-4.32	-4.406	30	Pass
NVNT	a	5825	-4.95	-5.036	30	Pass
NVNT	n20	5745	-5.45	-5.536	30	Pass
NVNT	n20	5785	-5.67	-5.756	30	Pass
NVNT	n20	5825	-6.27	-6.356	30	Pass
NVNT	n40	5755	-9.51	-9.596	30	Pass
NVNT	n40	5795	-9.87	-9.956	30	Pass
NVNT	ac20	5745	-5.45	-5.536	30	Pass
NVNT	ac20	5785	-5.69	-5.776	30	Pass
NVNT	ac20	5825	-6.35	-6.436	30	Pass
NVNT	ac40	5755	-9.33	-9.416	30	Pass
NVNT	ac40	5795	-10	-10.086	30	Pass
NVNT	ac80	5775	-12.99	-13.076	30	Pass

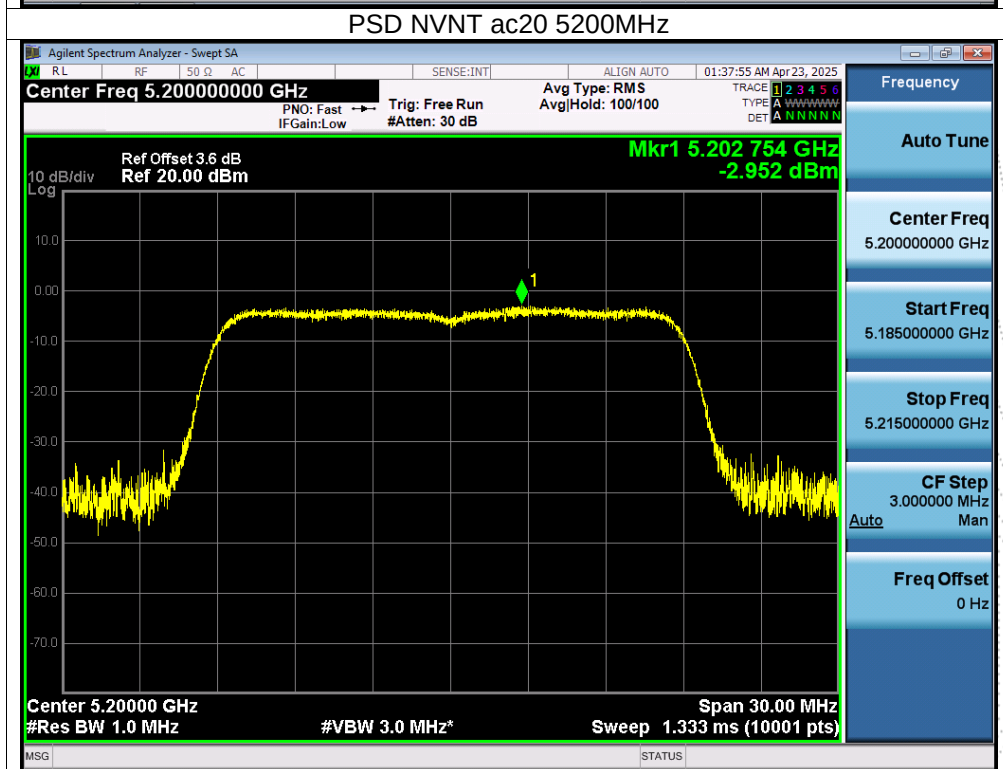
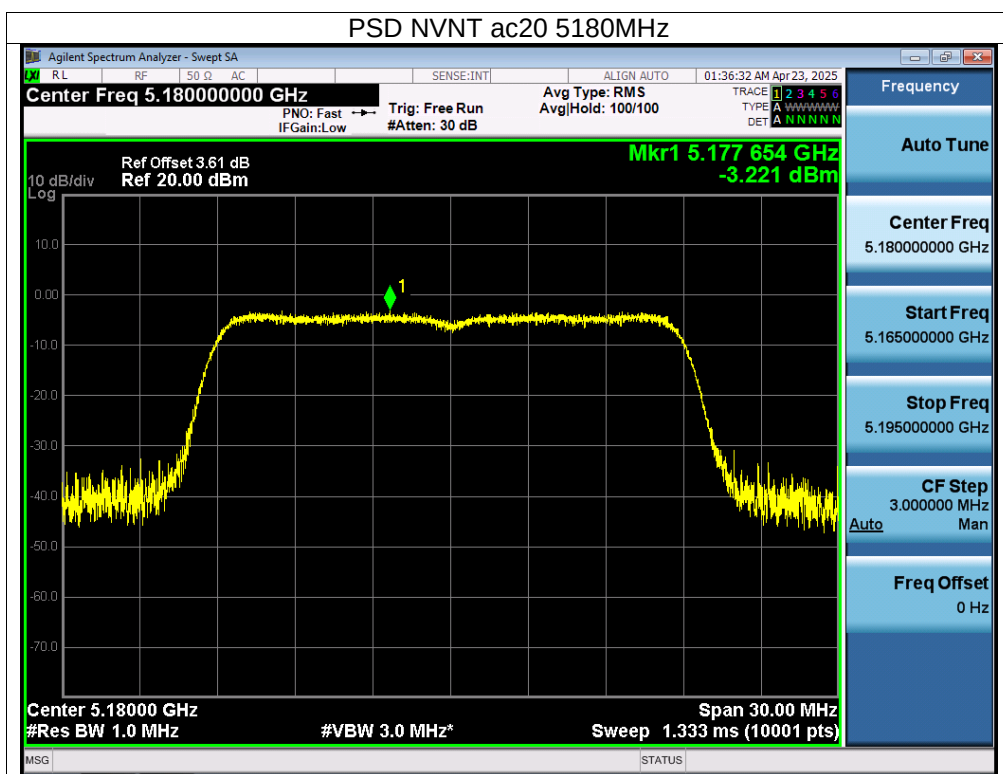
Note: Correction Factor = $10\log(500\text{KHz}/\text{RBW in measurement}) = -0.086$

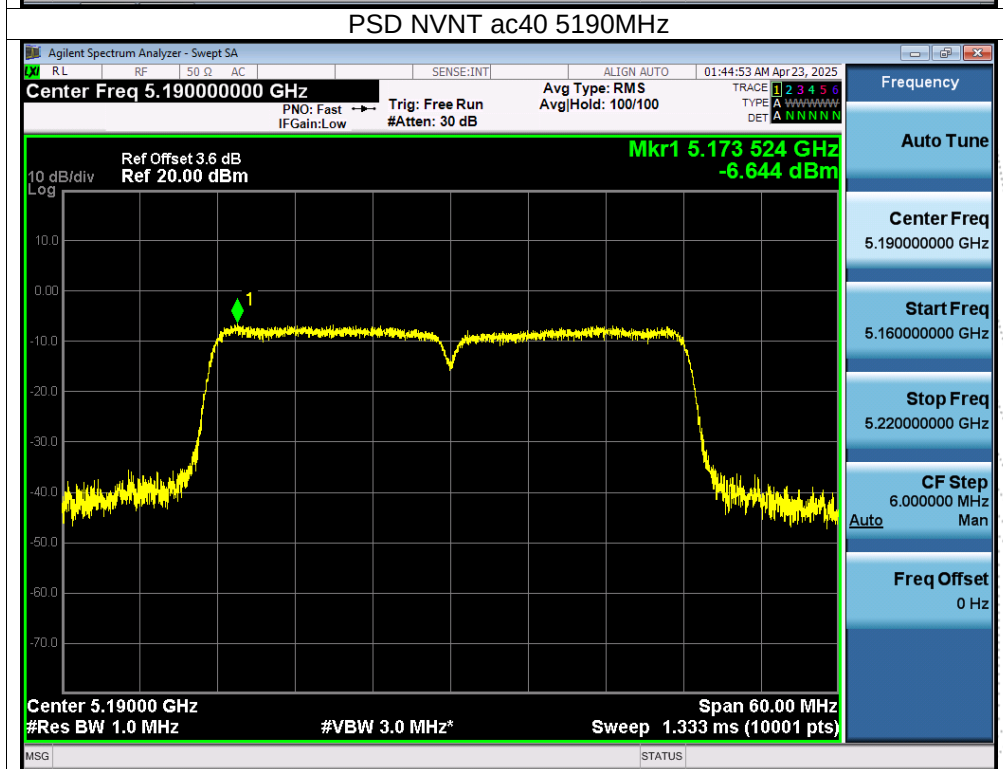
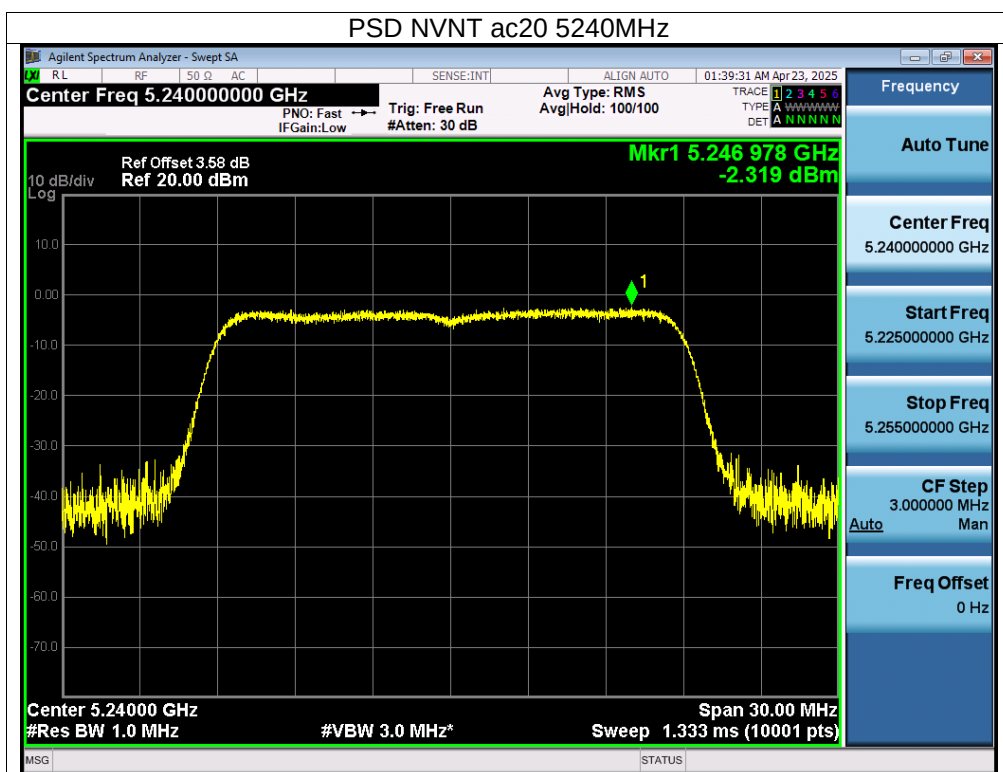


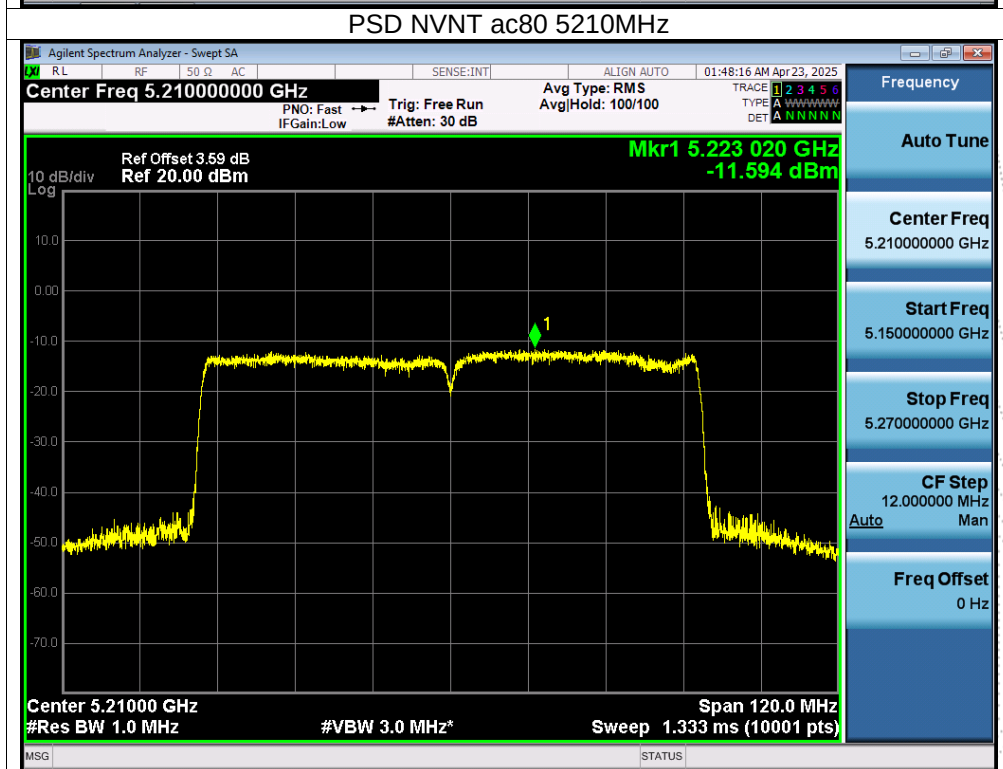
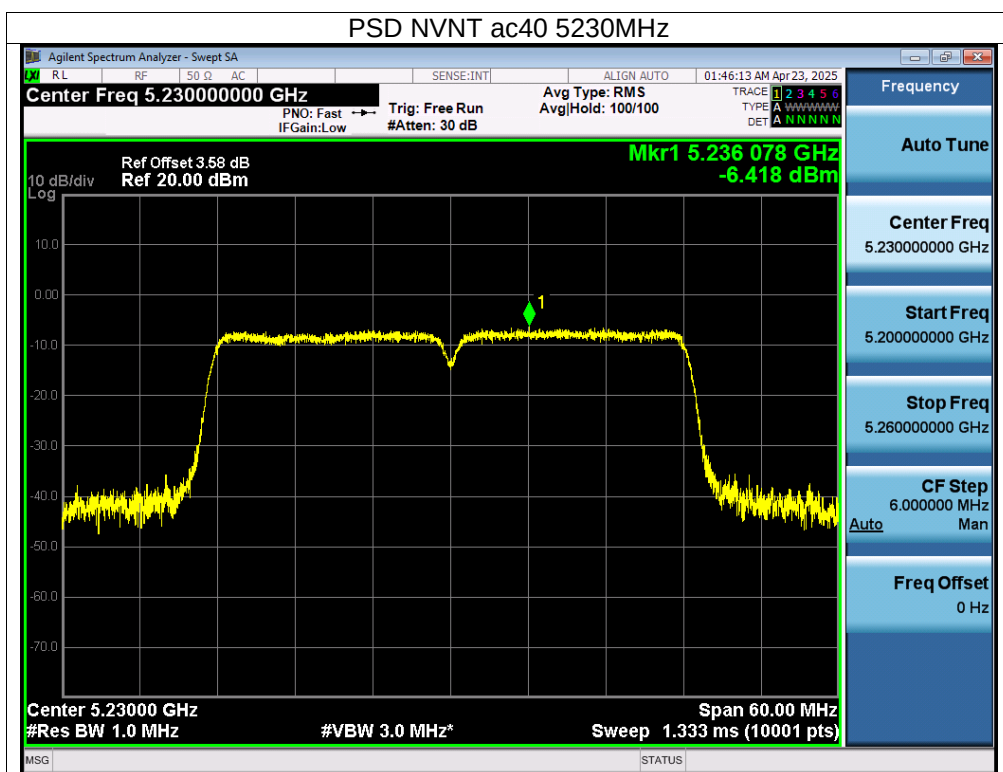




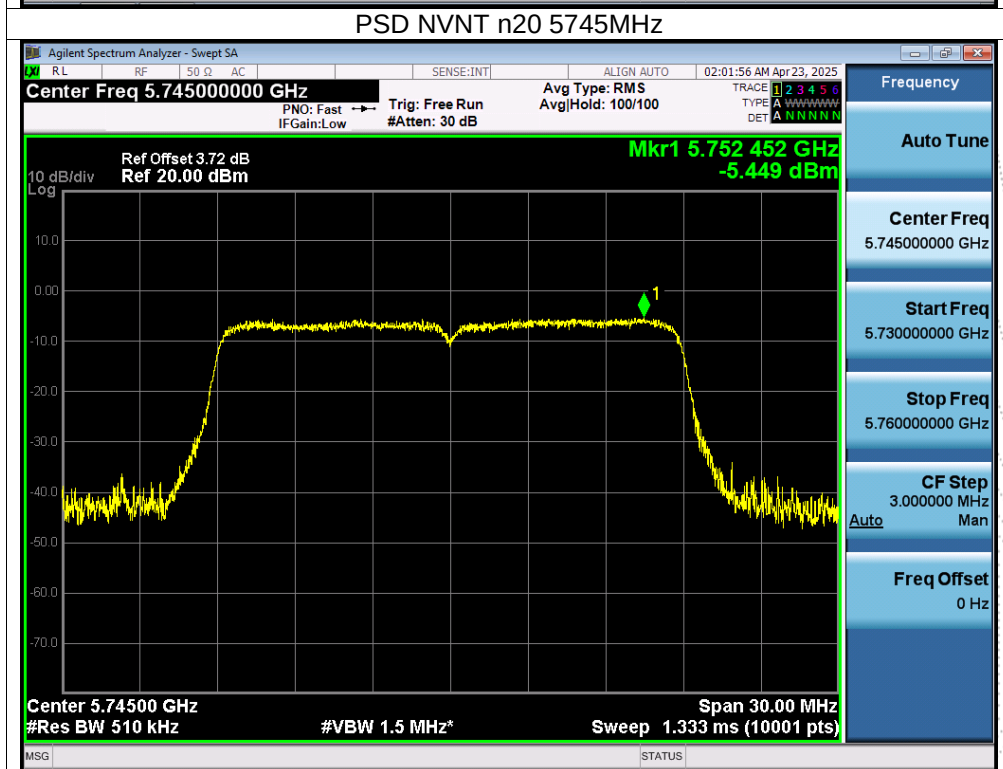
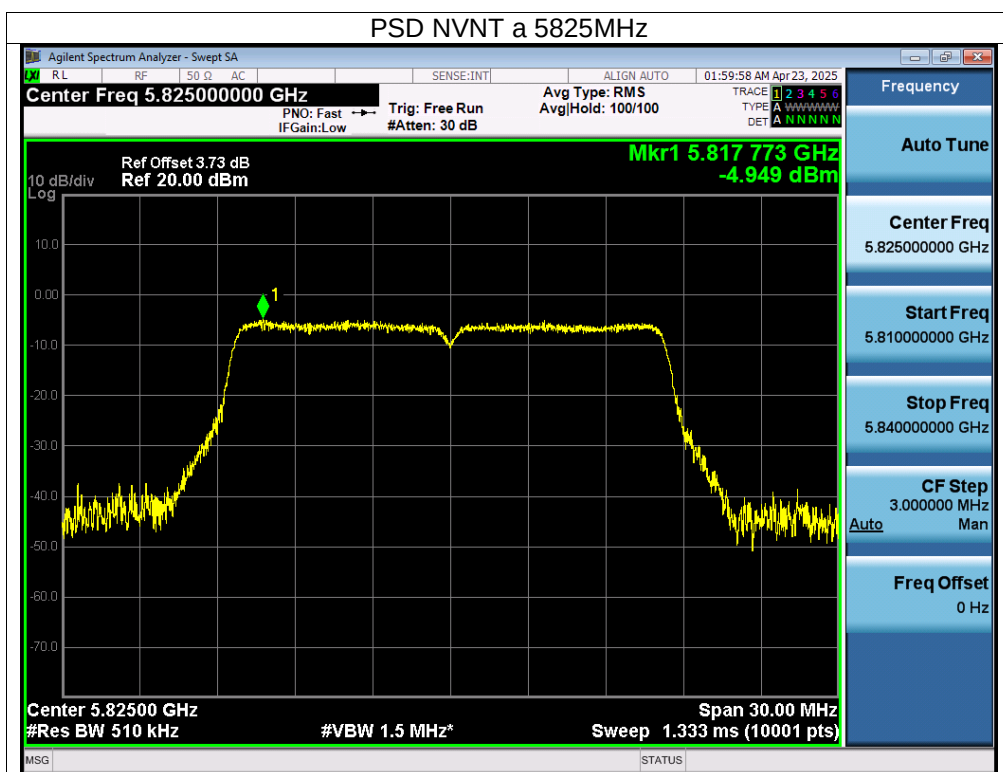


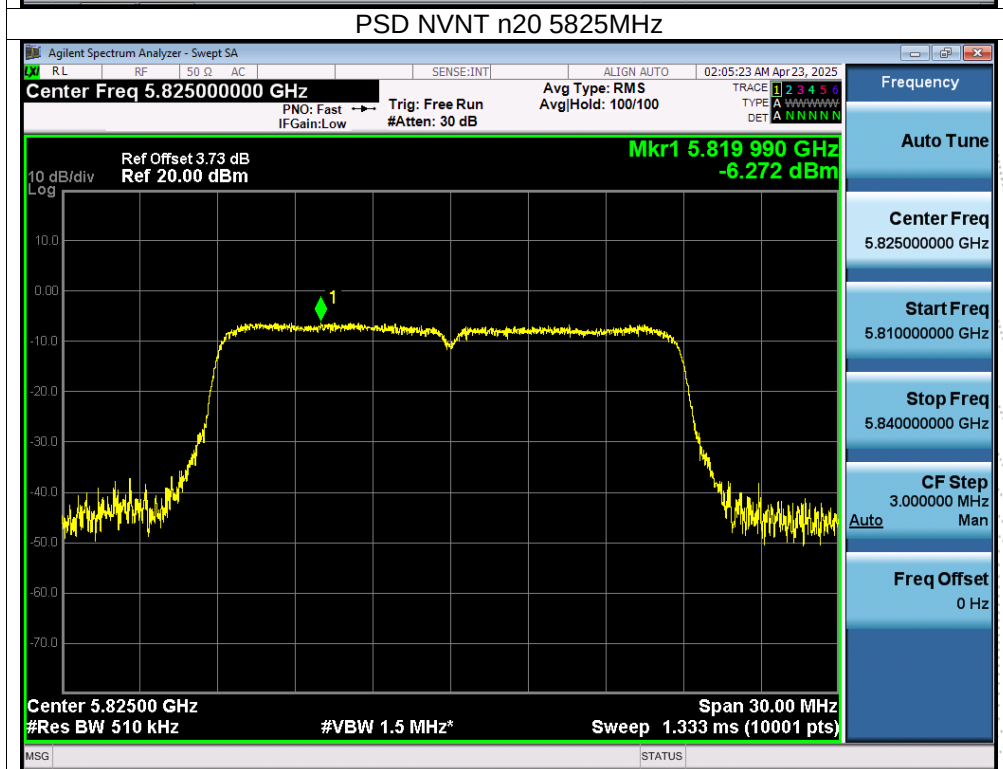
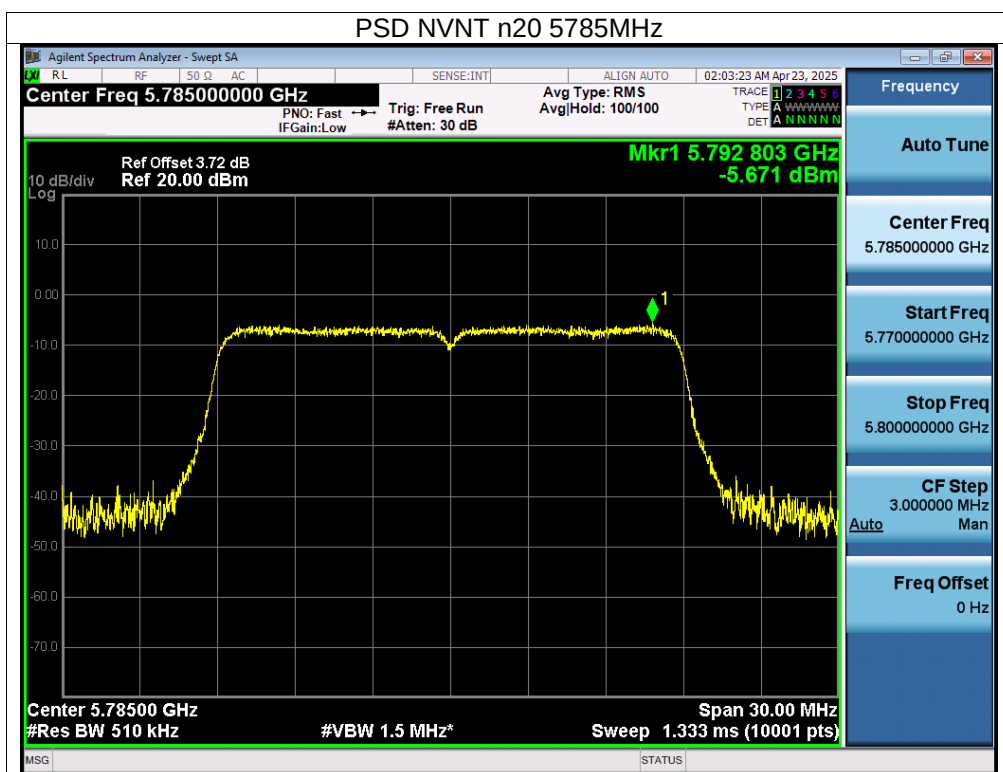


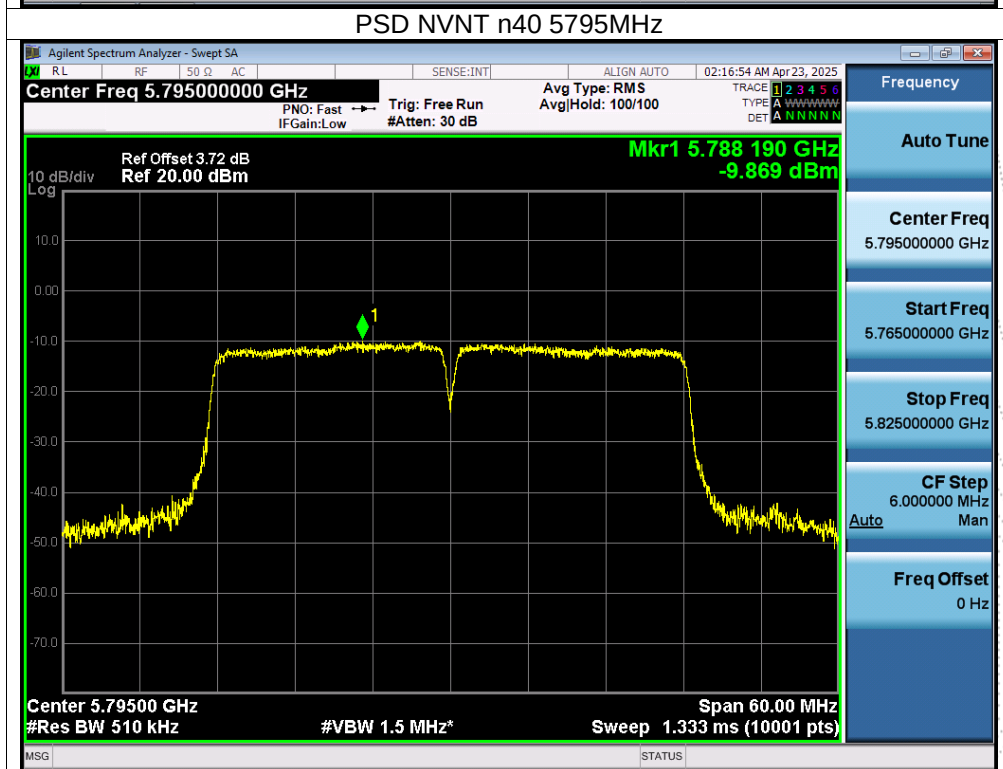
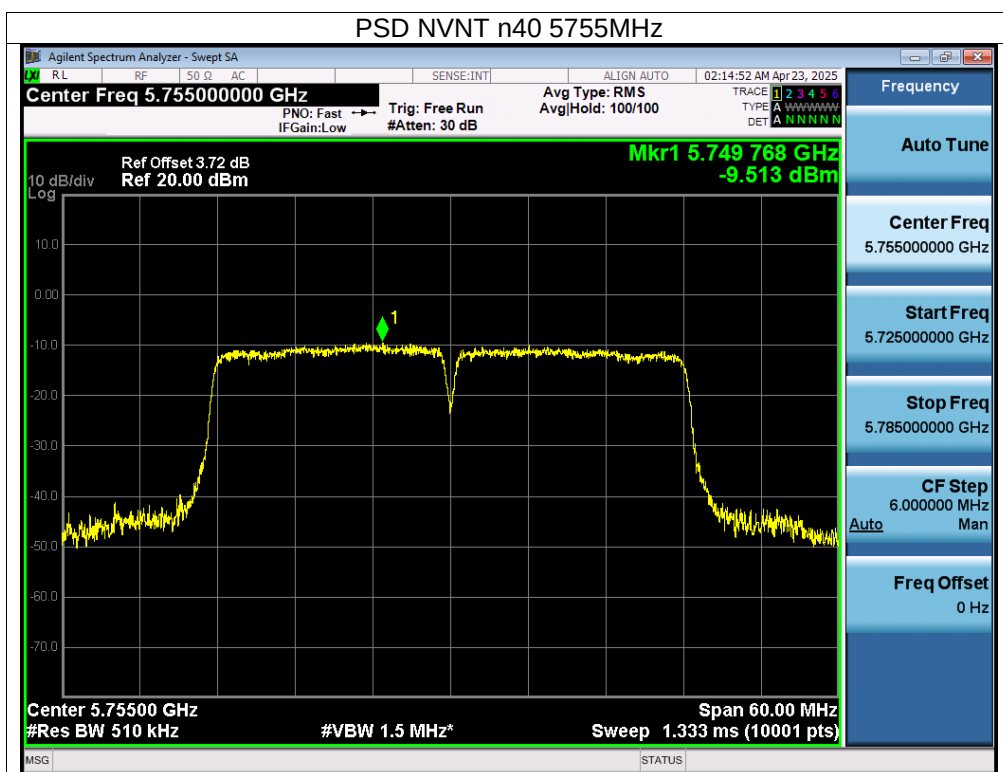


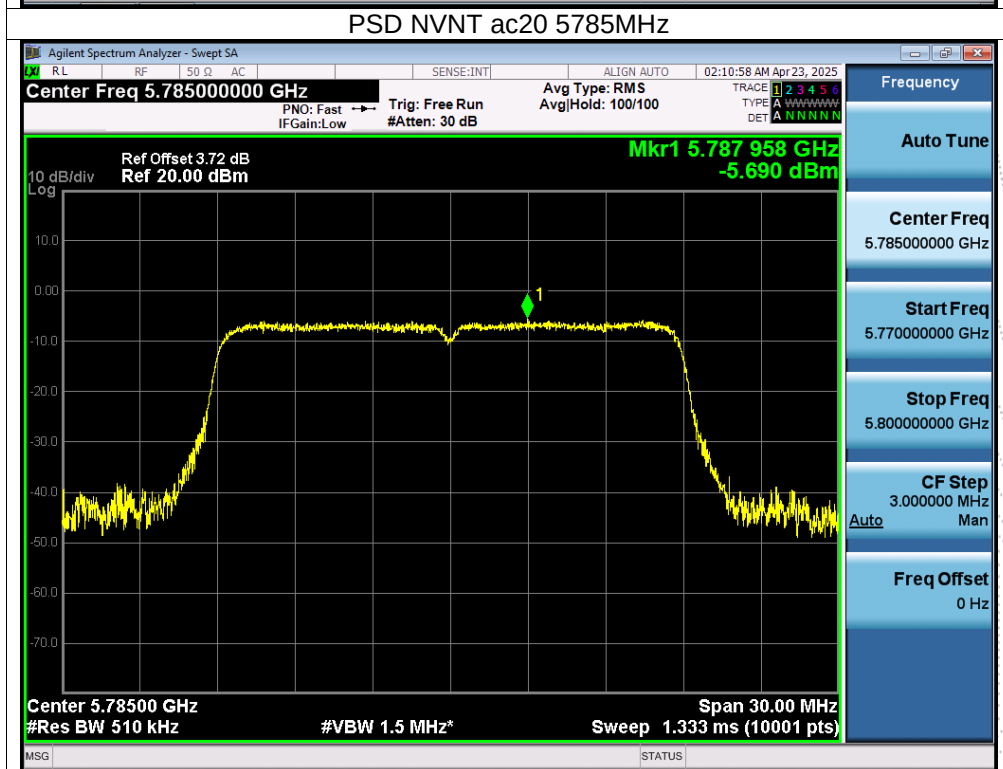
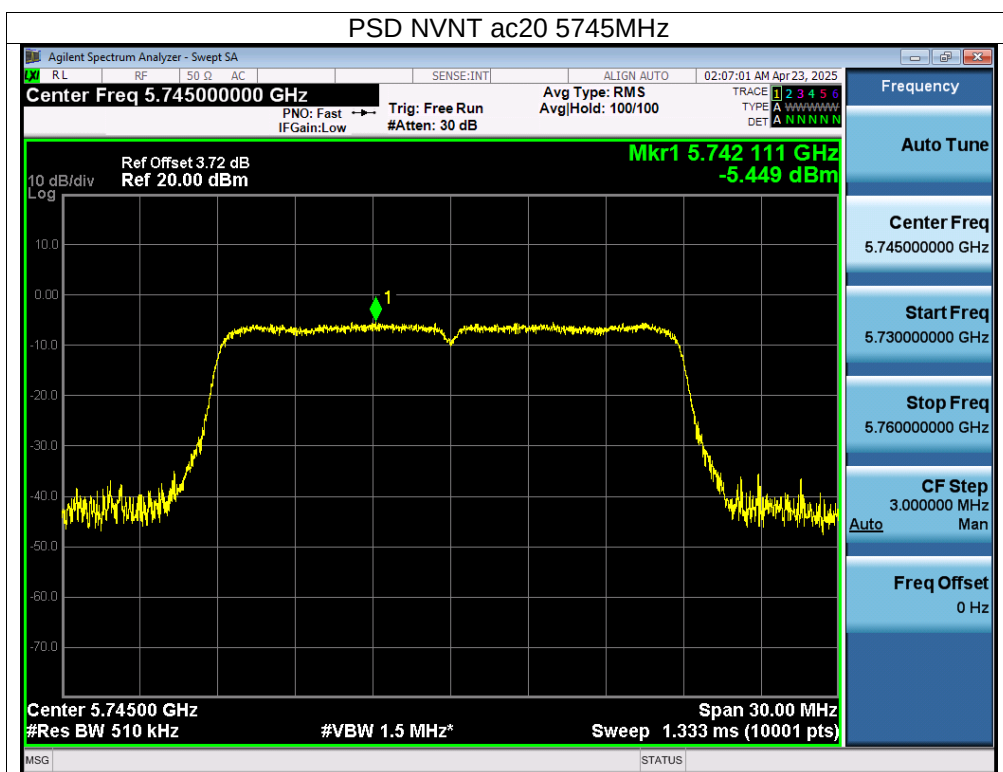


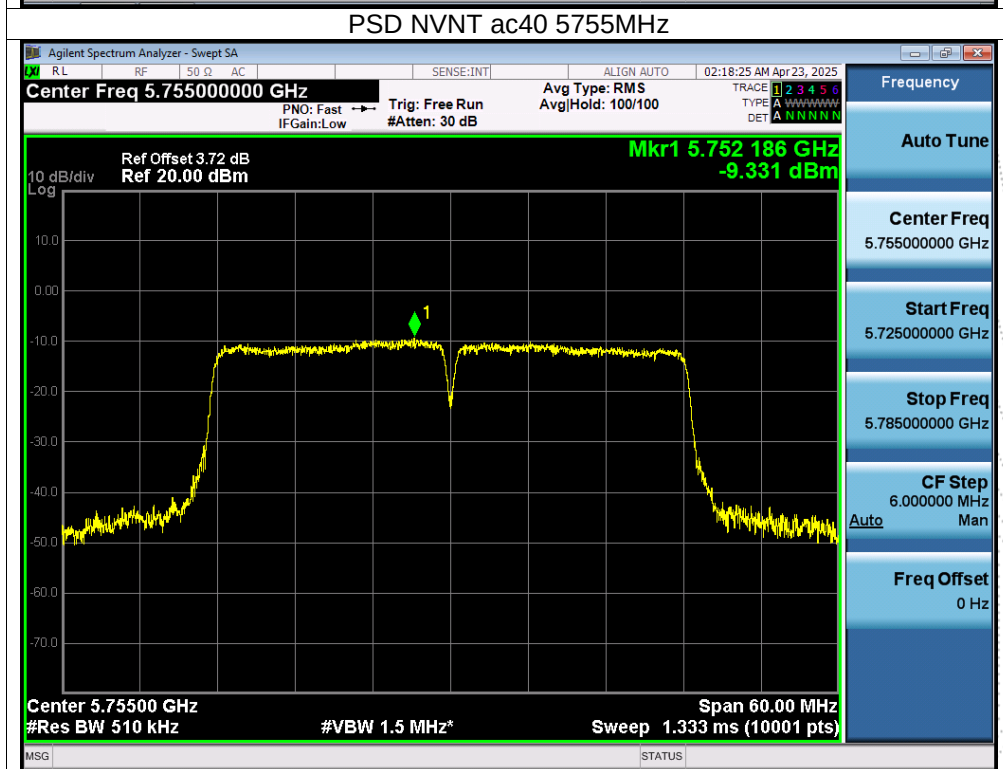
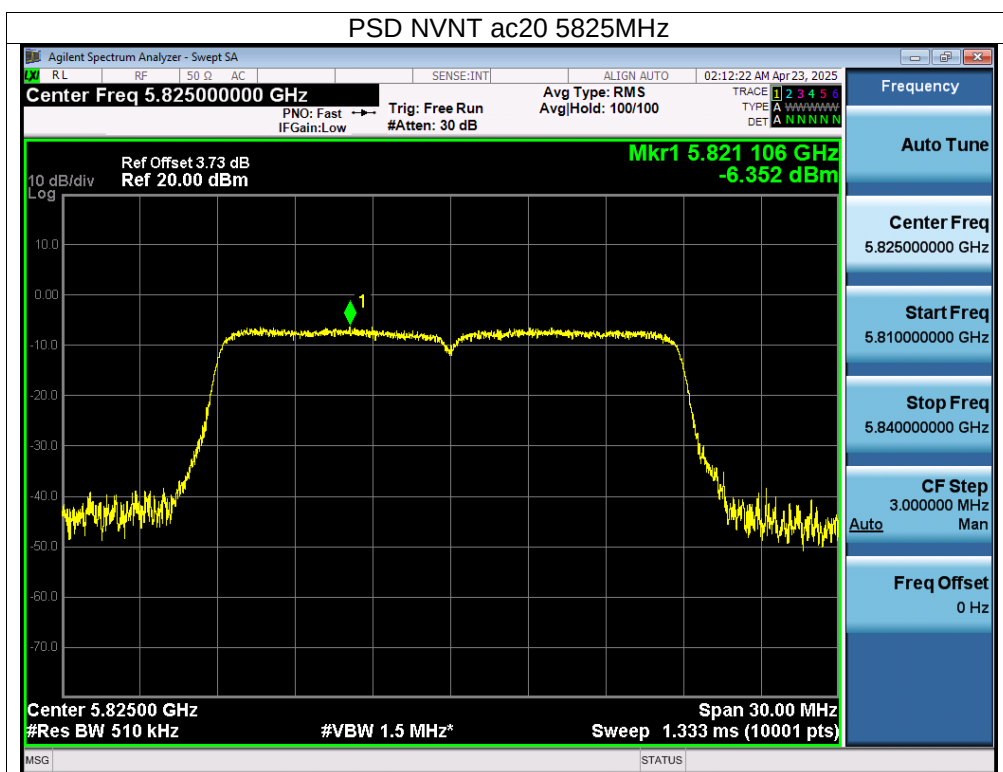


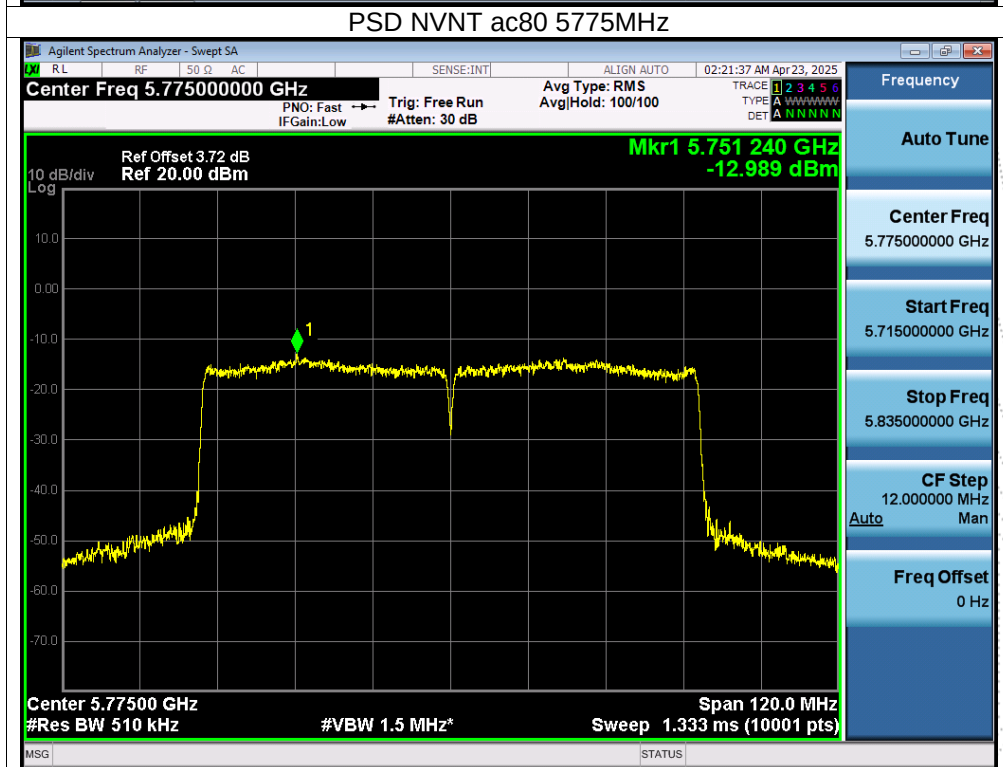
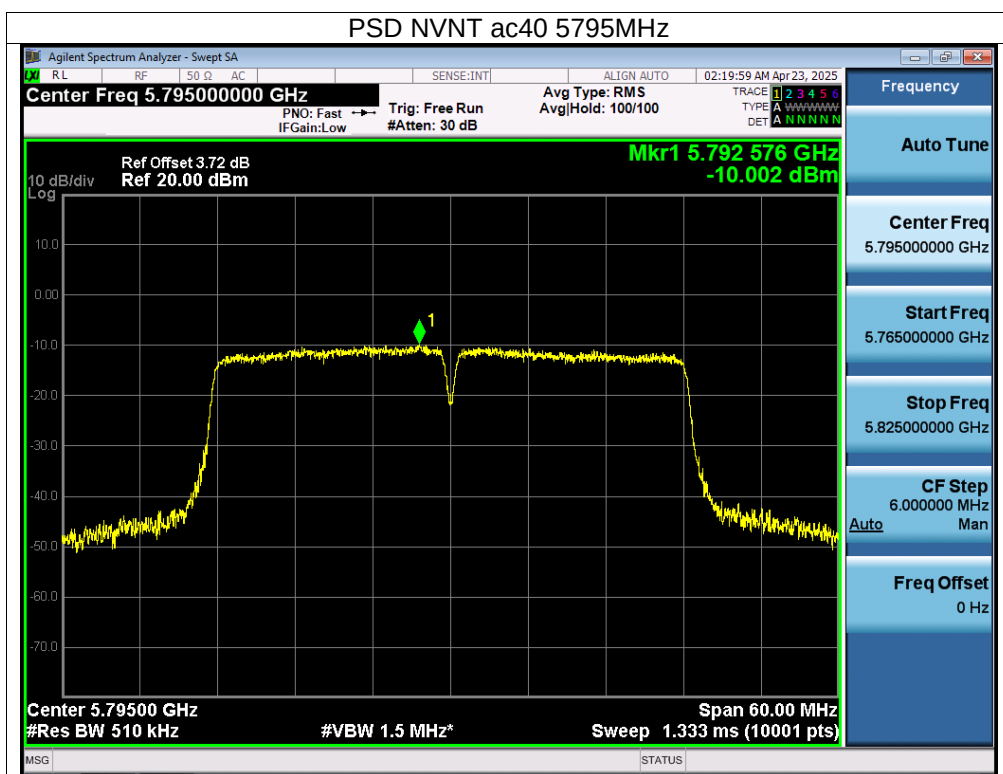






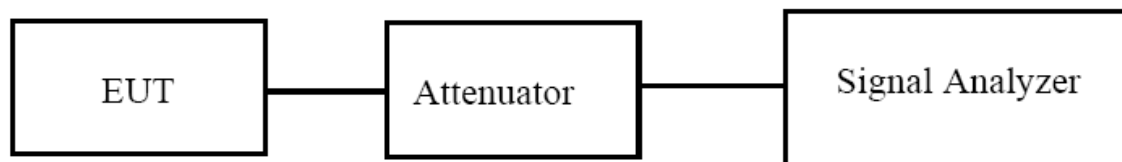






9. 26dB & 6dB & 99% Emission Bandwidth

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 3.87V
Test Mode:	TX Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-26dB bandwidth (MHz)	Result
NVNT	a	5180	16.535	22.679	Pass
NVNT	a	5200	16.556	23.589	Pass
NVNT	a	5240	16.557	23.169	Pass
NVNT	n20	5180	17.609	24.733	Pass
NVNT	n20	5200	17.627	24.887	Pass
NVNT	n20	5240	17.607	26.771	Pass
NVNT	n40	5190	36.346	54.803	Pass
NVNT	n40	5230	36.321	50.11	Pass
NVNT	ac20	5180	17.627	24.248	Pass
NVNT	ac20	5200	17.587	23.154	Pass
NVNT	ac20	5240	17.609	25.103	Pass
NVNT	ac40	5190	36.318	52.024	Pass
NVNT	ac40	5230	36.276	50.196	Pass
NVNT	ac80	5210	75.635	83.649	Pass