

TEST REPORT

Report No.: BCTC2502039171-3E

Applicant: WAC LIGHTING CO

Product Name: Gateway

Test Model: WH-GW1-WT

Tested Date: 2025-02-24 to 2025-04-30

Issued Date: 2025-05-13

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2APNFWAC000007

Product Name: Gateway

Trademark: WAC

Model/Type Ref.: WH-GW1-WT

Prepared For: WAC LIGHTING CO

Address: No.390 Qingfeng RD, Qingxi TW, Dongguan City, Guangdong Province ,China

Manufacturer: WAC LIGHTING CO

Address: No.390 Qingfeng RD, Qingxi TW, Dongguan City, Guangdong Province ,China

Prepared By: Shenzhen BCTC Testing Co., Ltd

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Sample Received Date: 2025-02-24

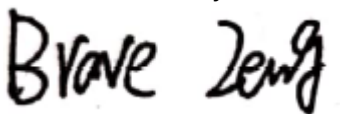
Sample tested Date: 2025-02-24 to 2025-04-30

Report No.: BCTC2502039171-3E

Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01

Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



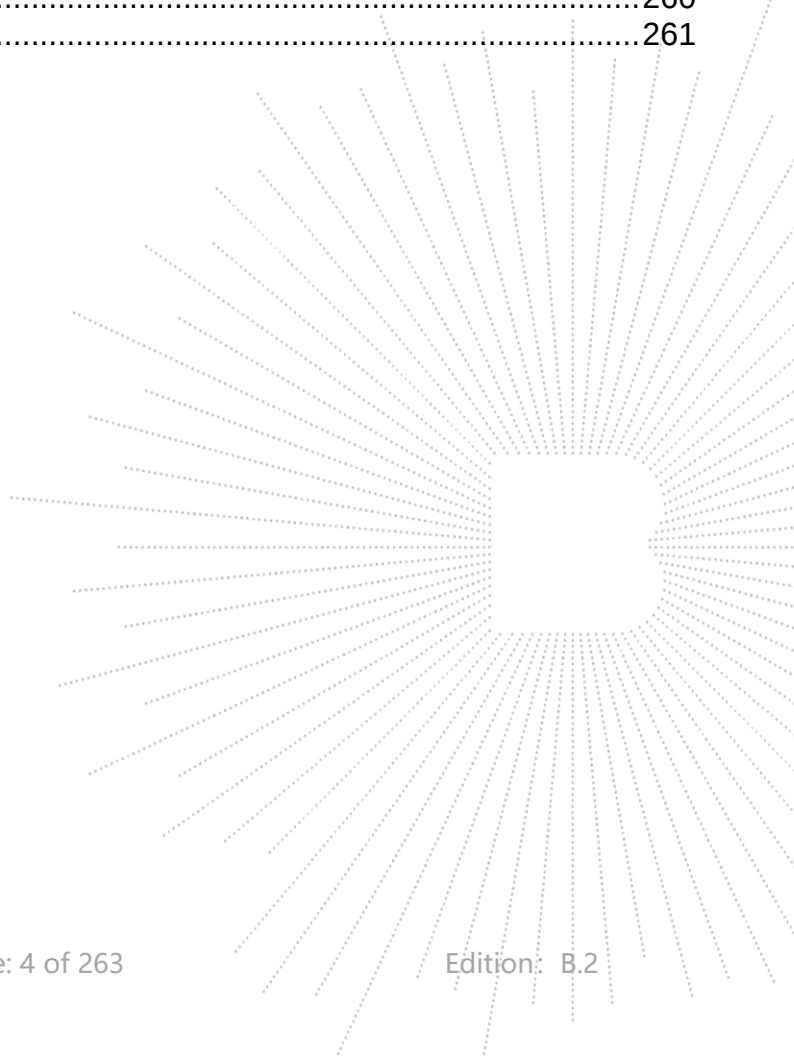
Zero Zhou/Reviewer

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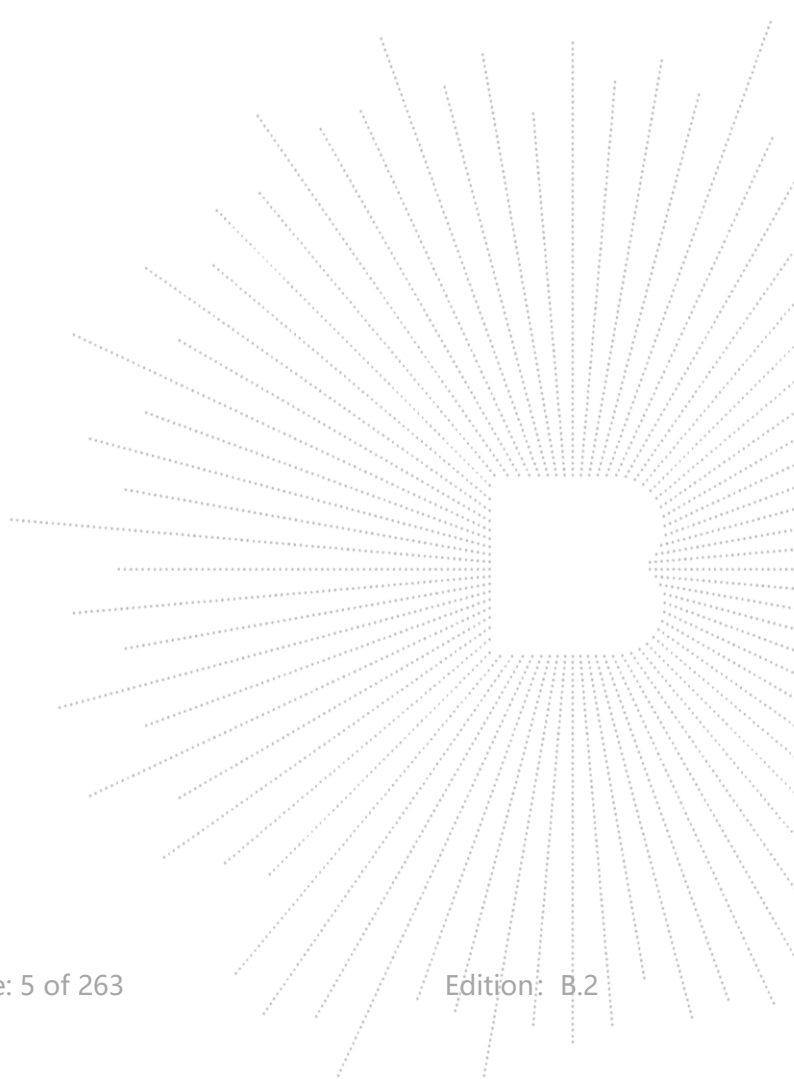
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2502039171-3E	2025-05-13	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

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

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

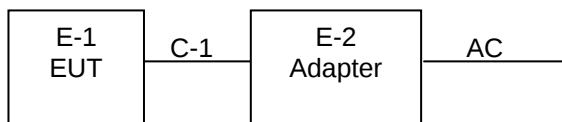
4.1 Product Information

Model/Type Ref.:	WH-GW1-WT
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	☒ 802.11a ☒ 802.11n(20MHz channel bandwidth) ☒ 802.11n(40MHz channel bandwidth) ☒ 802.11ac(20MHz channel bandwidth) ☒ 802.11ac(40MHz channel bandwidth) ☒ 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n/ac(HT20); 5190-5230MHz for 802.11n/ac(HT40); 5210MHz for 802.11 ac80; 5260-5320MHz for 802.11a/n/ac(HT20); 5270-5310MHz for 802.11n/ac(HT40); 5290MHz for 802.11 ac80; 5500-5700MHz for 802.11a/n/ac(HT20); 5510-5670MHz for 802.11n/ac(HT40); 5530MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n/ac(HT20); 5755-5795 MHz for 802.11n/ac(HT40); 5775MHz for 802.11 ac80
Type of Modulation:	☒ OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n ☒ OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac
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-MCS9
Antenna installation:	Internal antenna *2
Antenna Gain:	Antenna A: 4.75dBi Antenna B: 4.07dBi
Ratings:	DC 5V,1A
Adapter:	Input: AC 100-240V,50/60Hz,0.3A,MAX Output: DC 5V,2A

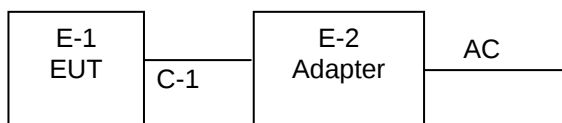
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Gateway	N/A	WH-GW1-WT	N/A	EUT
E-2	Adapter	N/A	N/A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	N/A	N/A

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		
(U-NII-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290		
(U-NII-2C) 5500MHz-5700MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	132	5660
	136	5680	140	5700
40MHz	102	5510	110	5550
	134	5670		
80MHz	106	5530		
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5755	159	5795
80MHz	155	5775		

4.5 Test Mode

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

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a / n/ ac 20 CH52/ CH56/ CH 64 802.11a / n/ ac 20 CH100/ CH116/ CH 140 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH54/ CH 62 802.11n/ ac40 CH102/ CH 110/CH134 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/ CH 58/ CH 106/ CH 155
Mode 4	Link Mode

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

4.7 Antenna

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power measurements on IEEE 802.11 devices,

Directional gain = GANT + Array Gain, where Array Gain is as follows:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

GANT is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation follows F)2)f)ii) of KDB 662911 D01 v02r01.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

As minimum NSS=1 is supported by EUT, the formula can be simplified as:

$$Directional\ gain = 10 \cdot \log \left[\left(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20} \right)^2 / N_{ANT} \right] \text{ dBi}$$

Where $G_1, G_2 \dots G_N$ denotes single antenna gain.

If a device has two antenna, GANT A= 4.75dBi; GANT B=4.07dBi;

Directional gain of power measurement = max (4.75, 4.07) + 0 = 4.75 dBi

Directional gain of PSD measurement = $10 \cdot \log \left[\left(10^{4.75/20} + 10^{4.07/20} \right)^2 / 2 \right] = 7.43\text{dBi}$

	Antenna A (dBi)	Antenna B (dBi)	Directional gain for Power (dBi)	Directional gain for PSD (dBi)
5180-5825MHz	4.75	4.07	4.75	7.43

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

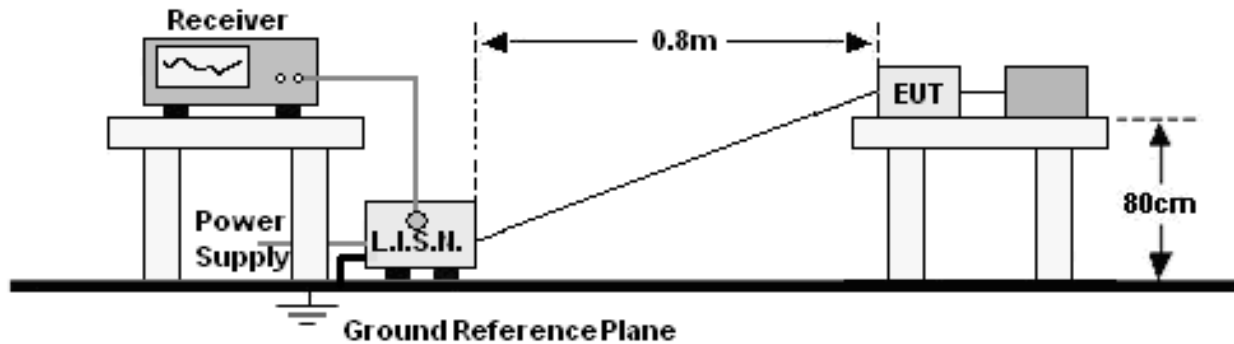
Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD 9561-F	01323	May 16, 2024	May 15, 2025

Continuous RF Electromagnetic Field Disturbances Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	A00065	May 16, 2024	May 15, 2025
Power sensor	Keysight	E9300A	US39211659	May 16, 2024	May 15, 2025
Power sensor	Keysight	E9300A	US39211305	May 16, 2024	May 15, 2025
Amplifier	SKET	HAP_801000 -250W	21201805013	May 16, 2024	May 15, 2025
Amplifier	SKET	HAP_0103-7 5W	21201805014	May 16, 2024	May 15, 2025
Amplifier	SKET	HAP_0306-5 0W	21201805015	May 16, 2024	May 15, 2025
Stacked double Log.-Per. Antenna	Schwarzbeck	STLP 9129	00077	\	\
Field Probe	Narda	EP-601	611WX80256	May 25, 2024	May 24, 2025
Signal Generator	Agilent	N5181A	MY50143748	May 16, 2024	May 15, 2025
Software	SKET	EMC-S	1.2.0.18	\	\

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 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_01G1 8G-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 Antenn(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 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.

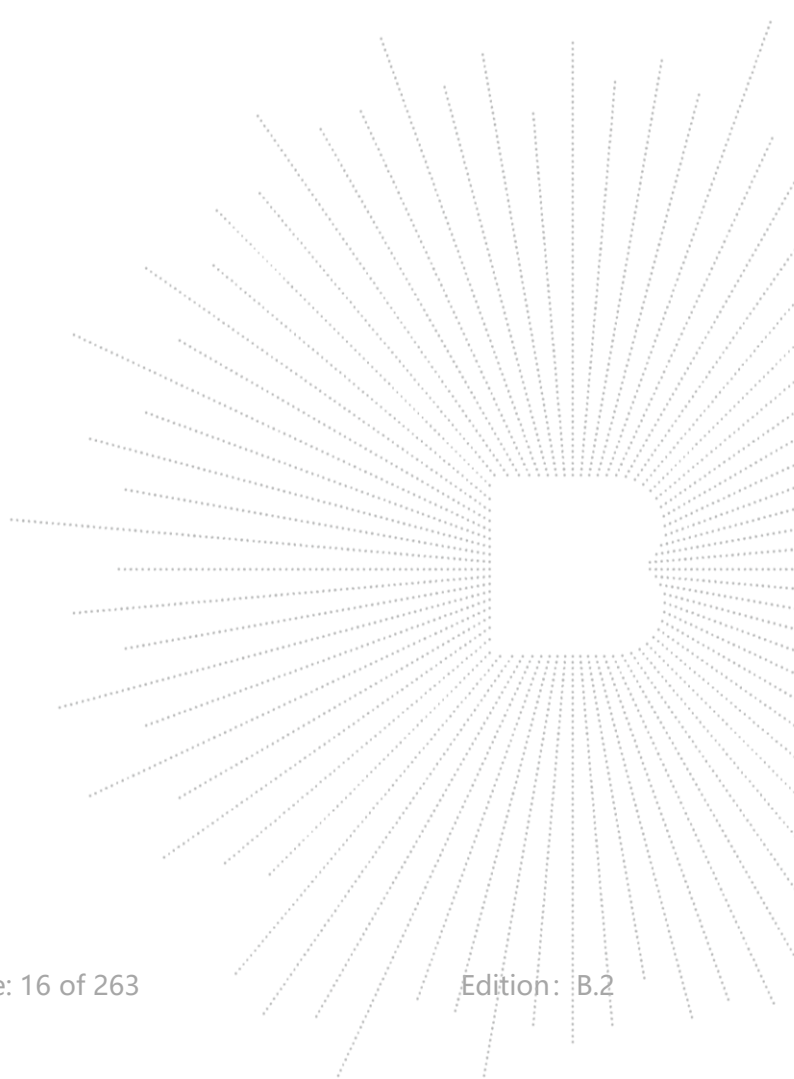
6.3 Test Procedure

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.

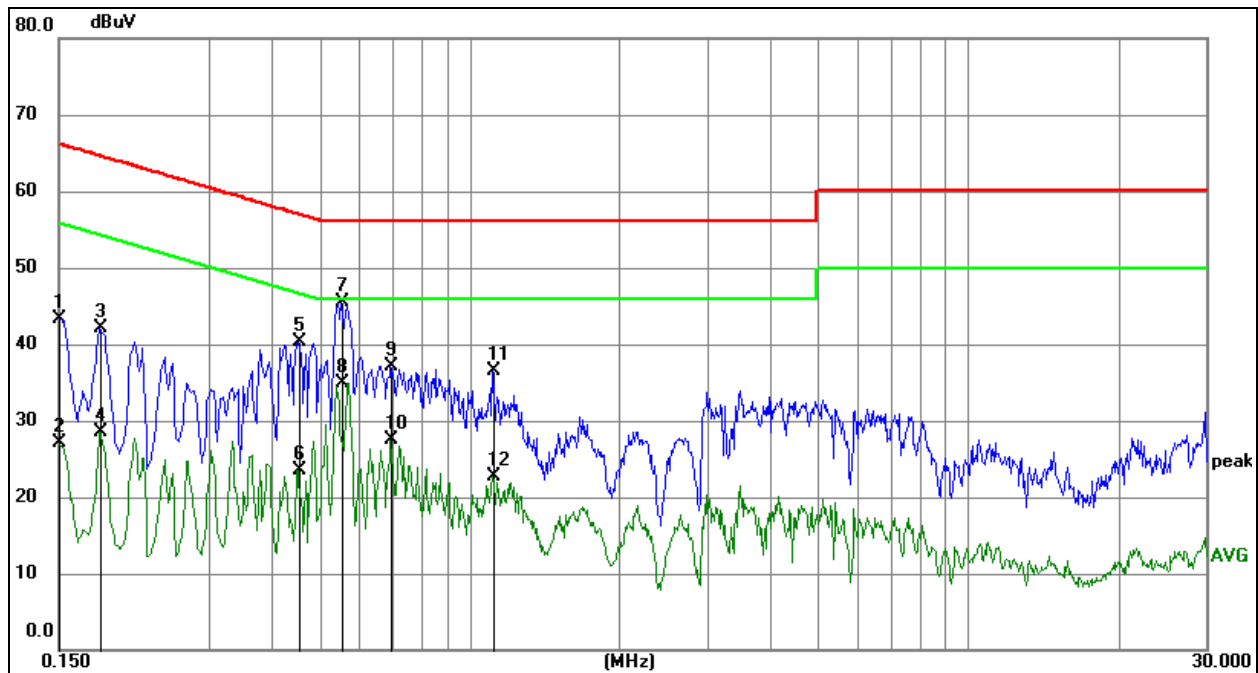
6.4 EUT Operating Conditions

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:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC120/60Hz
Test Mode:	Mode 4	Polarization :	L

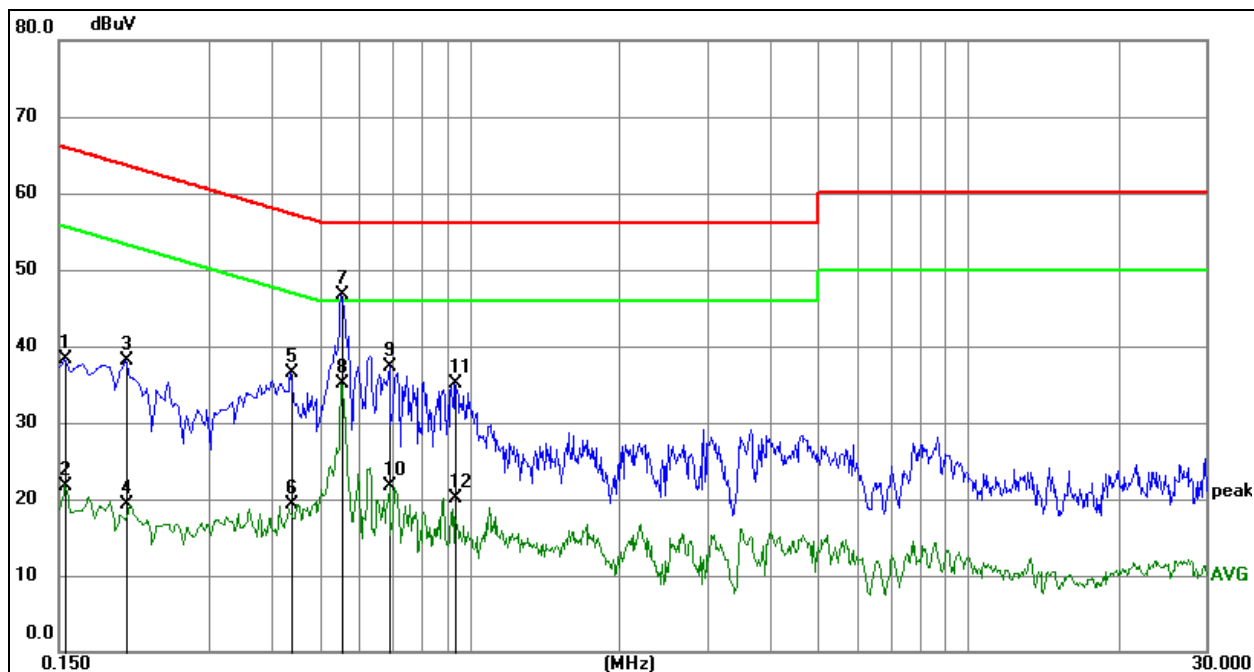


Remark:

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.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	32.83	10.57	43.40	66.00	-22.60	QP
2	0.1500	16.56	10.57	27.13	56.00	-28.87	AVG
3	0.1815	31.43	10.58	42.01	64.42	-22.41	QP
4	0.1815	17.93	10.58	28.51	54.42	-25.91	AVG
5	0.4560	29.59	10.62	40.21	56.77	-16.56	QP
6	0.4560	12.94	10.62	23.56	46.77	-23.21	AVG
7 *	0.5550	34.84	10.65	45.49	56.00	-10.51	QP
8	0.5550	24.29	10.65	34.94	46.00	-11.06	AVG
9	0.6945	26.41	10.65	37.06	56.00	-18.94	QP
10	0.6945	16.80	10.65	27.45	46.00	-18.55	AVG
11	1.1130	25.81	10.60	36.41	56.00	-19.59	QP
12	1.1130	12.03	10.60	22.63	46.00	-23.37	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC120/60Hz
Test Mode:	Mode 4	Polarization :	N



Remark:

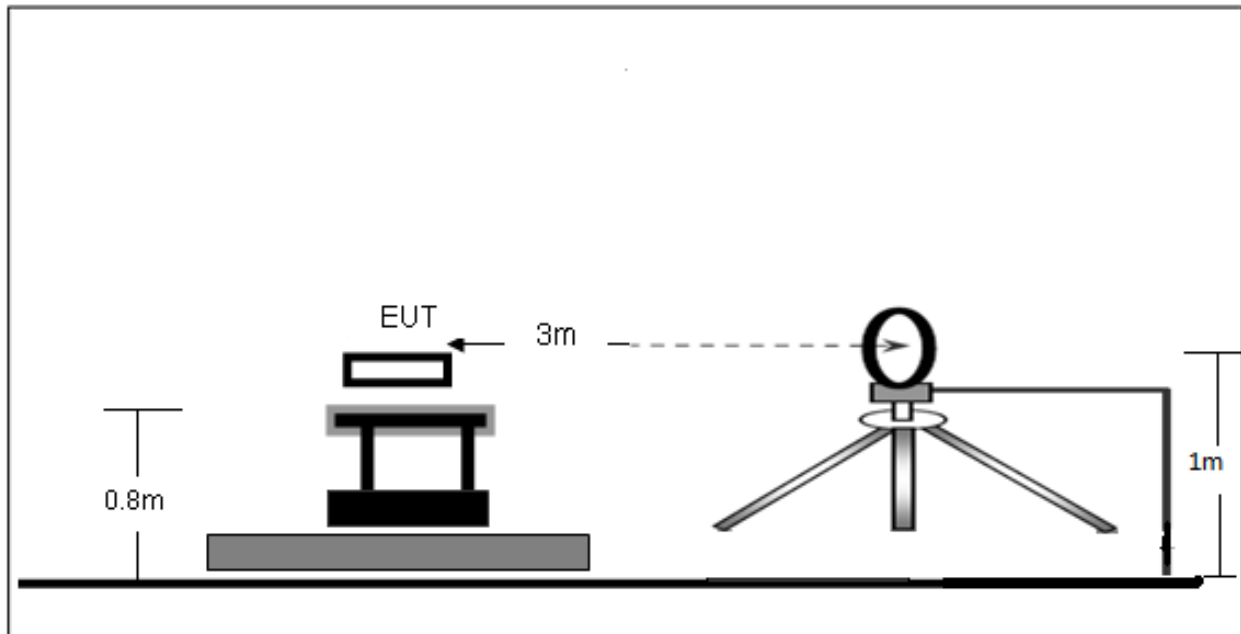
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1545	27.67	10.57	38.24	65.75	-27.51	QP
2	0.1545	11.23	10.57	21.80	55.75	-33.95	AVG
3	0.2040	27.44	10.59	38.03	63.45	-25.42	QP
4	0.2040	8.79	10.59	19.38	53.45	-34.07	AVG
5	0.4380	25.88	10.62	36.50	57.10	-20.60	QP
6	0.4380	8.71	10.62	19.33	47.10	-27.77	AVG
7 *	0.5550	36.13	10.65	46.78	56.00	-9.22	QP
8	0.5550	24.43	10.65	35.08	46.00	-10.92	AVG
9	0.6900	26.75	10.65	37.40	56.00	-18.60	QP
10	0.6900	11.14	10.65	21.79	46.00	-24.21	AVG
11	0.9375	24.43	10.60	35.03	56.00	-20.97	QP
12	0.9375	9.55	10.60	20.15	46.00	-25.85	AVG

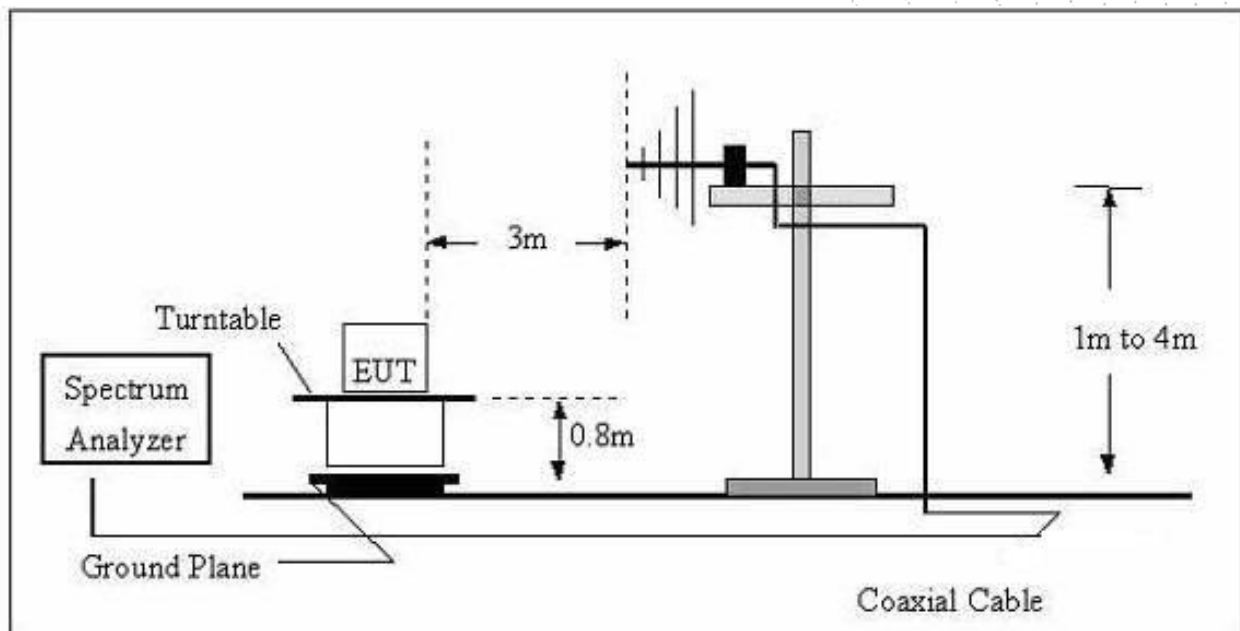
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

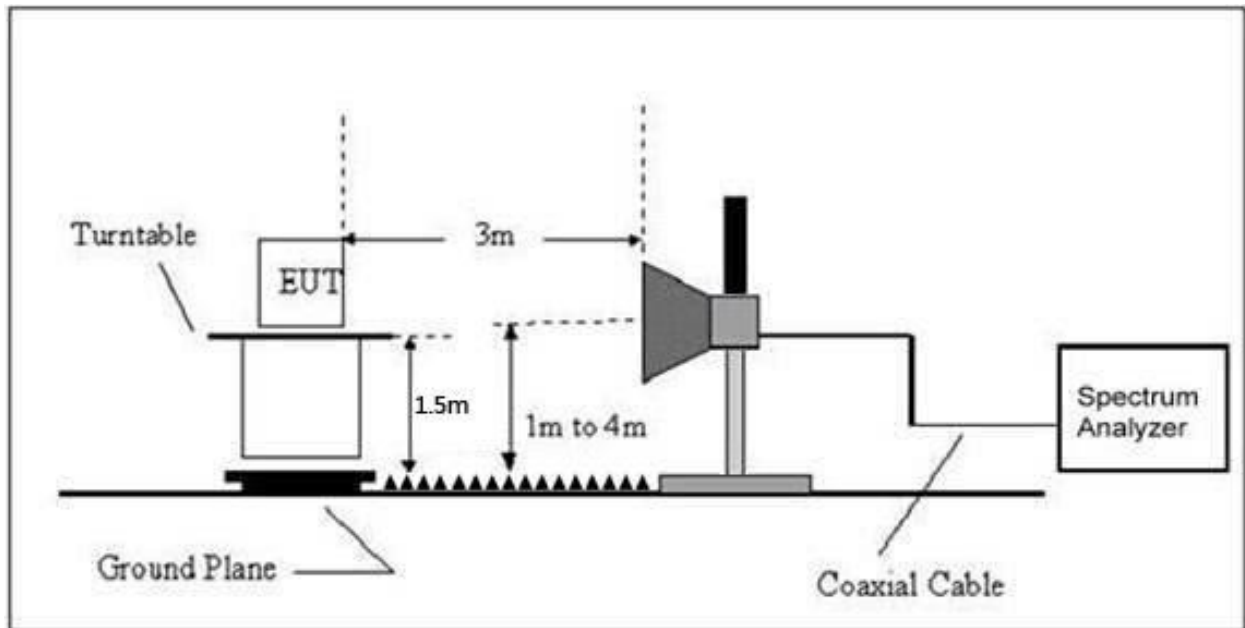
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

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

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

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

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

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage:	AC120/60Hz
Test Mode:	Mode 4	Polarization:	--

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

Note:

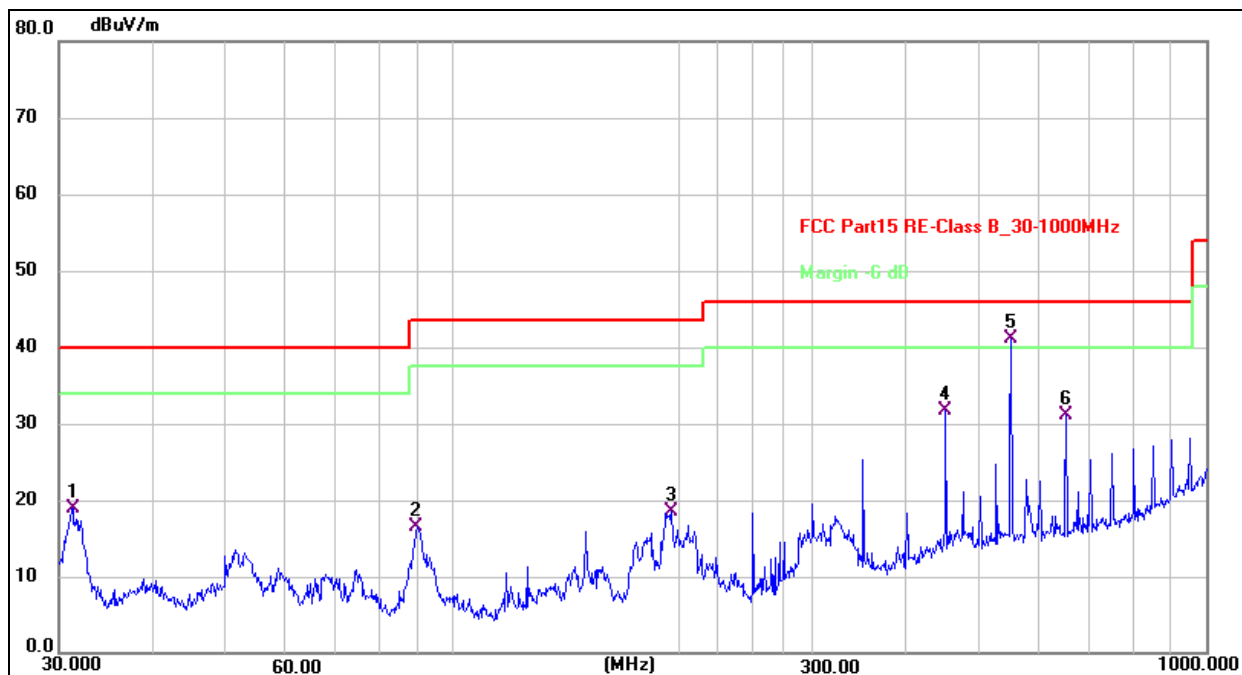
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC120/60Hz
Test Mode :	Mode 4	Polarization :	Horizontal

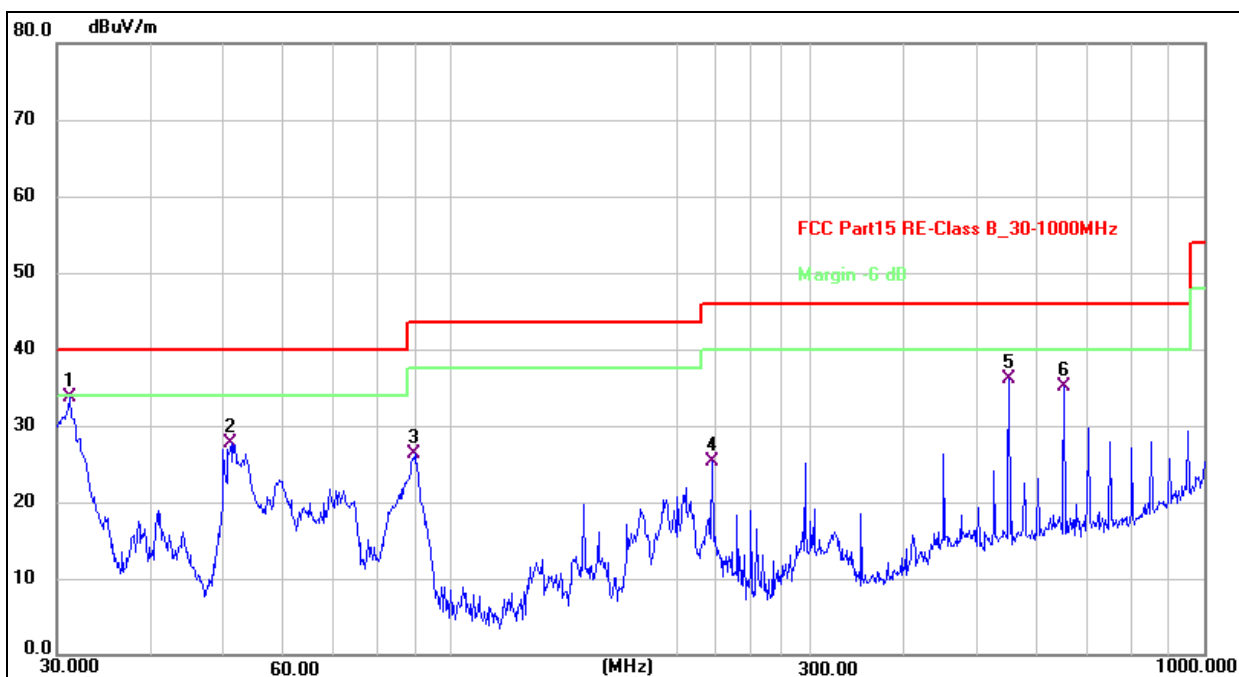


Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.2893	35.76	-16.81	18.95	40.00	-21.05	QP
2	89.5899	36.53	-20.11	16.42	43.50	-27.08	QP
3	195.1365	37.09	-18.57	18.52	43.50	-24.98	QP
4	451.1350	44.28	-12.51	31.77	46.00	-14.23	QP
5 *	550.9480	51.02	-9.84	41.18	46.00	-4.82	QP
6	651.9417	39.81	-8.70	31.11	46.00	-14.89	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC120/60Hz
Test Mode :	Mode 4	Polarization :	Vertical



Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	31.1798	50.45	-16.81	33.64	40.00	-6.36	QP
2	51.1209	44.51	-16.83	27.68	40.00	-12.32	QP
3	89.5899	46.32	-20.11	26.21	43.50	-17.29	QP
4	222.1698	43.68	-18.33	25.35	46.00	-20.65	QP
5	550.9480	45.90	-9.84	36.06	46.00	-9.94	QP
6	651.9417	43.78	-8.70	35.08	46.00	-10.92	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	4434.058	73.54	-20.73	52.81	68.2	-15.39	Pk
Vertical	4434.058	59.25	-20.73	38.52	54	-15.48	AV
Vertical	10360.077	61.27	-9.36	51.91	68.2	-16.29	Pk
Vertical	10360.077	49.67	-9.36	40.31	54	-13.69	AV
Vertical	15540.050	61.34	-7.84	53.50	74	-20.50	Pk
Vertical	15540.050	49.93	-7.84	42.09	54	-11.91	AV
Horizontal	4434.094	71.14	-20.73	50.41	68.2	-17.79	Pk
Horizontal	4434.094	59.59	-20.73	38.86	54	-15.14	AV
Horizontal	10360.074	64.65	-9.36	55.29	68.2	-12.91	Pk
Horizontal	10360.074	49.74	-9.36	40.38	54	-13.62	AV
Horizontal	15540.134	64.97	-7.84	57.13	74	-16.87	Pk
Horizontal	15540.134	49.48	-7.84	41.64	54	-12.36	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.050	71.31	-20.42	50.89	74	-23.11	Pk
Vertical	4592.050	59.70	-20.42	39.28	54	-14.72	AV
Vertical	10400.190	64.41	-9.30	55.11	68.2	-13.09	Pk
Vertical	10400.190	49.46	-9.30	40.16	54	-13.84	AV
Vertical	15600.066	62.25	-7.82	54.43	74	-19.57	Pk
Vertical	15600.066	49.52	-7.82	41.70	54	-12.30	AV
Horizontal	4592.095	70.11	-20.42	49.70	74	-24.30	Pk
Horizontal	4592.095	59.27	-20.42	38.86	54	-15.14	AV
Horizontal	10400.194	60.02	-9.30	50.72	68.2	-17.48	Pk
Horizontal	10400.194	49.14	-9.30	39.84	54	-14.16	AV
Horizontal	15600.125	64.52	-7.82	56.70	74	-17.30	Pk
Horizontal	15600.125	49.79	-7.82	41.97	54	-12.03	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.037	74.08	-20.12	53.96	74	-20.04	Pk
Vertical	4739.037	59.82	-20.12	39.70	54	-14.30	AV
Vertical	10480.059	62.61	-9.18	53.43	68.2	-14.77	Pk
Vertical	10480.059	49.81	-9.18	40.63	54	-13.37	AV
Vertical	15720.172	63.02	-7.78	55.24	74	-18.76	Pk
Vertical	15720.172	49.11	-7.78	41.33	54	-12.67	AV
Horizontal	4739.143	73.33	-20.12	53.21	74	-20.79	Pk
Horizontal	4739.143	59.45	-20.12	39.32	54	-14.68	AV
Horizontal	10480.163	64.95	-9.18	55.77	68.2	-12.43	Pk
Horizontal	10480.163	49.62	-9.18	40.44	54	-13.56	AV
Horizontal	15720.094	64.47	-7.78	56.69	74	-17.31	Pk
Horizontal	15720.094	49.94	-7.78	42.16	54	-11.84	AV

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

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

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

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

The worst case is Antenna A.

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	4434.108	71.06	-20.73	50.33	68.2	-17.87	Pk
Vertical	4434.108	59.05	-20.73	38.32	54	-15.68	AV
Vertical	10360.058	62.26	-9.36	52.90	68.2	-15.30	Pk
Vertical	10360.058	49.71	-9.36	40.35	54	-13.65	AV
Vertical	15540.161	64.89	-7.84	57.05	74	-16.95	Pk
Vertical	15540.161	49.76	-7.84	41.92	54	-12.08	AV
Horizontal	4434.143	70.29	-20.73	49.56	68.2	-18.64	Pk
Horizontal	4434.143	59.11	-20.73	38.38	54	-15.62	AV
Horizontal	10360.071	63.23	-9.36	53.87	68.2	-14.33	Pk
Horizontal	10360.071	49.74	-9.36	40.38	54	-13.62	AV
Horizontal	15540.010	62.12	-7.84	54.28	74	-19.72	Pk
Horizontal	15540.010	49.15	-7.84	41.31	54	-12.69	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.016	71.65	-20.42	51.24	74	-22.76	Pk
Vertical	4592.016	59.48	-20.42	39.07	54	-14.93	AV
Vertical	10400.037	63.09	-9.30	53.79	68.2	-14.41	Pk
Vertical	10400.037	49.07	-9.30	39.77	54	-14.23	AV
Vertical	15600.069	61.96	-7.82	54.14	74	-19.86	Pk
Vertical	15600.069	49.35	-7.82	41.53	54	-12.47	AV
Horizontal	4592.162	73.42	-20.42	53.00	74	-21.00	Pk
Horizontal	4592.162	59.71	-20.42	39.30	54	-14.70	AV
Horizontal	10400.096	62.38	-9.30	53.08	68.2	-15.12	Pk
Horizontal	10400.096	49.31	-9.30	40.01	54	-13.99	AV
Horizontal	15600.154	61.02	-7.82	53.20	74	-20.80	Pk
Horizontal	15600.154	49.14	-7.82	41.32	54	-12.68	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.133	74.30	-20.12	54.18	74	-19.82	Pk
Vertical	4739.133	59.59	-20.12	39.47	54	-14.53	AV
Vertical	10480.086	60.50	-9.18	51.32	68.2	-16.88	Pk
Vertical	10480.086	49.49	-9.18	40.31	54	-13.69	AV
Vertical	15720.034	64.31	-7.78	56.53	74	-17.47	Pk
Vertical	15720.034	49.89	-7.78	42.11	54	-11.89	AV
Horizontal	4739.162	70.70	-20.12	50.58	74	-23.42	Pk
Horizontal	4739.162	59.75	-20.12	39.63	54	-14.37	AV
Horizontal	10480.156	60.79	-9.18	51.61	68.2	-16.59	Pk
Horizontal	10480.156	49.26	-9.18	40.08	54	-13.92	AV
Horizontal	15720.021	61.05	-7.78	53.27	74	-20.73	Pk
Horizontal	15720.021	49.52	-7.78	41.74	54	-12.26	AV

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

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

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

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

Test Mode is MIMO(antenna A+ antenna B) Mode.

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	4434.168	73.07	-20.73	52.34	68.2	-15.86	Pk
Vertical	4434.168	59.27	-20.73	38.54	54	-15.46	AV
Vertical	10380.179	61.46	-9.33	52.13	68.2	-16.07	Pk
Vertical	10380.179	49.65	-9.33	40.32	54	-13.68	AV
Vertical	15570.128	60.51	-7.83	52.68	74	-21.32	Pk
Vertical	15570.128	49.56	-7.83	41.73	54	-12.27	AV
Horizontal	4434.016	70.29	-20.73	49.56	74	-24.44	Pk
Horizontal	4434.016	59.48	-20.73	38.75	54	-15.25	AV
Horizontal	10380.038	63.65	-9.33	54.32	68.2	-13.88	Pk
Horizontal	10380.038	49.29	-9.33	39.96	54	-14.04	AV
Horizontal	15570.192	61.99	-7.83	54.16	74	-19.84	Pk
Horizontal	15570.192	49.42	-7.83	41.59	54	-12.41	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.035	73.92	-20.12	53.79	68.2	-14.41	Pk
Vertical	4739.035	59.10	-20.12	38.98	54	-15.02	AV
Vertical	10460.043	62.98	-9.21	53.77	68.2	-14.43	Pk
Vertical	10460.043	49.94	-9.21	40.73	54	-13.27	AV
Vertical	15690.011	63.36	-7.79	55.57	74	-18.43	Pk
Vertical	15690.011	49.17	-7.79	41.38	54	-12.62	AV
Horizontal	4739.085	70.95	-20.12	50.82	68.2	-17.38	Pk
Horizontal	4739.085	59.64	-20.12	39.52	54	-14.48	AV
Horizontal	10460.113	64.85	-9.21	55.64	68.2	-12.56	Pk
Horizontal	10460.113	49.05	-9.21	39.84	54	-14.16	AV
Horizontal	15690.160	64.19	-7.79	56.40	74	-17.60	Pk
Horizontal	15690.160	49.09	-7.79	41.30	54	-12.70	AV

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

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

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

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

Test Mode is MIMO(antenna A+ antenna B) Mode.

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	4434.063	74.13	-20.73	53.40	68.2	-14.80	Pk
Vertical	4434.063	59.70	-20.73	38.97	54	-15.03	AV
Vertical	10360.112	60.37	-9.36	51.01	68.2	-17.19	Pk
Vertical	10360.112	49.88	-9.36	40.52	54	-13.48	AV
Vertical	15540.182	62.39	-7.84	54.55	74	-19.45	Pk
Vertical	15540.182	49.61	-7.84	41.77	54	-12.23	AV
Horizontal	4434.008	73.18	-20.73	52.45	68.2	-15.75	Pk
Horizontal	4434.008	59.86	-20.73	39.13	54	-14.87	AV
Horizontal	10360.160	62.79	-9.36	53.43	68.2	-14.77	Pk
Horizontal	10360.160	49.48	-9.36	40.12	54	-13.88	AV
Horizontal	15540.181	62.37	-7.84	54.53	74	-19.47	Pk
Horizontal	15540.181	49.39	-7.84	41.55	54	-12.45	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.165	70.35	-20.42	49.94	74	-24.06	Pk
Vertical	4592.165	59.35	-20.42	38.93	54	-15.07	AV
Vertical	10400.055	61.75	-9.30	52.45	68.2	-15.75	Pk
Vertical	10400.055	49.84	-9.30	40.54	54	-13.46	AV
Vertical	15600.159	62.35	-7.82	54.53	74	-19.47	Pk
Vertical	15600.159	49.01	-7.82	41.19	54	-12.81	AV
Horizontal	4592.028	72.90	-20.42	52.48	74	-21.52	Pk
Horizontal	4592.028	59.93	-20.42	39.52	54	-14.48	AV
Horizontal	10400.107	62.91	-9.30	53.61	68.2	-14.59	Pk
Horizontal	10400.107	49.78	-9.30	40.48	54	-13.52	AV
Horizontal	15600.099	63.49	-7.82	55.67	74	-18.33	Pk
Horizontal	15600.099	49.55	-7.82	41.73	54	-12.27	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.193	72.31	-20.12	52.18	74	-21.82	Pk
Vertical	4739.193	59.77	-20.12	39.65	54	-14.35	AV
Vertical	10480.062	64.87	-9.18	55.69	68.2	-12.51	Pk
Vertical	10480.062	49.02	-9.18	39.84	54	-14.16	AV
Vertical	15720.045	61.11	-7.78	53.33	74	-20.67	Pk
Vertical	15720.045	49.29	-7.78	41.51	54	-12.49	AV
Horizontal	4739.039	73.78	-20.12	53.66	74	-20.34	Pk
Horizontal	4739.039	59.86	-20.12	39.74	54	-14.26	AV
Horizontal	10480.192	63.73	-9.18	54.55	68.2	-13.65	Pk
Horizontal	10480.192	49.44	-9.18	40.26	54	-13.74	AV
Horizontal	15720.010	63.51	-7.78	55.73	74	-18.27	Pk
Horizontal	15720.010	49.80	-7.78	42.02	54	-11.98	AV

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

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

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

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

Test Mode is MIMO(antenna A+ antenna B) Mode.

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	4434.001	71.75	-20.73	51.02	68.2	-17.18	Pk
Vertical	4434.001	59.15	-20.73	38.42	54	-15.58	AV
Vertical	10380.200	64.71	-9.33	55.38	68.2	-12.82	Pk
Vertical	10380.200	49.52	-9.33	40.19	54	-13.81	AV
Vertical	15570.176	61.32	-7.83	53.49	74	-20.51	Pk
Vertical	15570.176	49.56	-7.83	41.73	54	-12.27	AV
Horizontal	4434.051	73.68	-20.73	52.95	74	-21.05	Pk
Horizontal	4434.051	59.34	-20.73	38.61	54	-15.39	AV
Horizontal	10380.194	64.70	-9.33	55.37	68.2	-12.83	Pk
Horizontal	10380.194	49.85	-9.33	40.52	54	-13.48	AV
Horizontal	15570.082	64.62	-7.83	56.79	74	-17.21	Pk
Horizontal	15570.082	49.88	-7.83	42.05	54	-11.95	AV
middle Channel (5230 MHz)-Above 1G							
Vertical	4739.008	70.25	-20.12	50.13	68.2	-18.07	Pk
Vertical	4739.008	59.70	-20.12	39.58	54	-14.42	AV
Vertical	10460.143	63.65	-9.21	54.44	68.2	-13.76	Pk
Vertical	10460.143	49.83	-9.21	40.62	54	-13.38	AV
Vertical	15690.190	63.62	-7.79	55.83	74	-18.17	Pk
Vertical	15690.190	49.54	-7.79	41.75	54	-12.25	AV
Horizontal	4739.050	70.87	-20.12	50.75	68.2	-17.45	Pk
Horizontal	4739.050	59.21	-20.12	39.09	54	-14.91	AV
Horizontal	10460.014	62.53	-9.21	53.32	68.2	-14.88	Pk
Horizontal	10460.014	49.62	-9.21	40.41	54	-13.59	AV
Horizontal	15690.131	63.29	-7.79	55.50	74	-18.50	Pk
Horizontal	15690.131	49.84	-7.79	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 is MIMO(antenna A+ antenna B) Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
Vertical	4434.087	72.53	-20.73	51.80	68.2	-16.40	Pk
Vertical	4434.087	59.78	-20.73	39.05	54	-14.95	AV
Vertical	10420.060	64.13	-9.27	54.86	68.2	-13.34	Pk
Vertical	10420.060	49.92	-9.27	40.65	54	-13.35	AV
Vertical	15630.095	61.02	-7.81	53.21	74	-20.79	Pk
Vertical	15630.095	49.11	-7.81	41.30	54	-12.70	AV
Horizontal	4434.114	74.58	-20.73	53.85	68.2	-14.35	Pk
Horizontal	4434.114	59.53	-20.73	38.80	54	-15.20	AV
Horizontal	10420.081	62.15	-9.27	52.88	68.2	-15.32	Pk
Horizontal	10420.081	49.84	-9.27	40.57	54	-13.43	AV
Horizontal	15630.027	63.51	-7.81	55.70	74	-18.30	Pk
Horizontal	15630.027	49.74	-7.81	41.93	54	-12.07	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 is MIMO(antenna A+ antenna B) Mode.

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

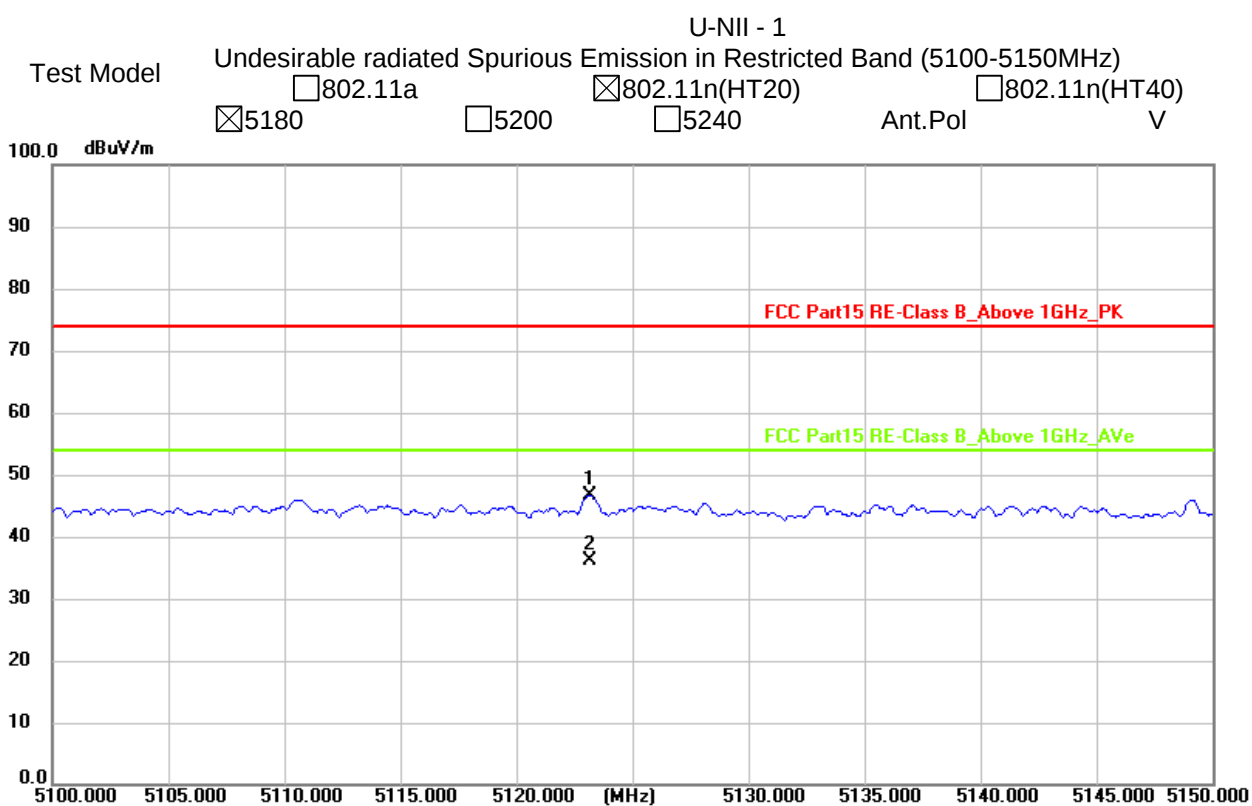
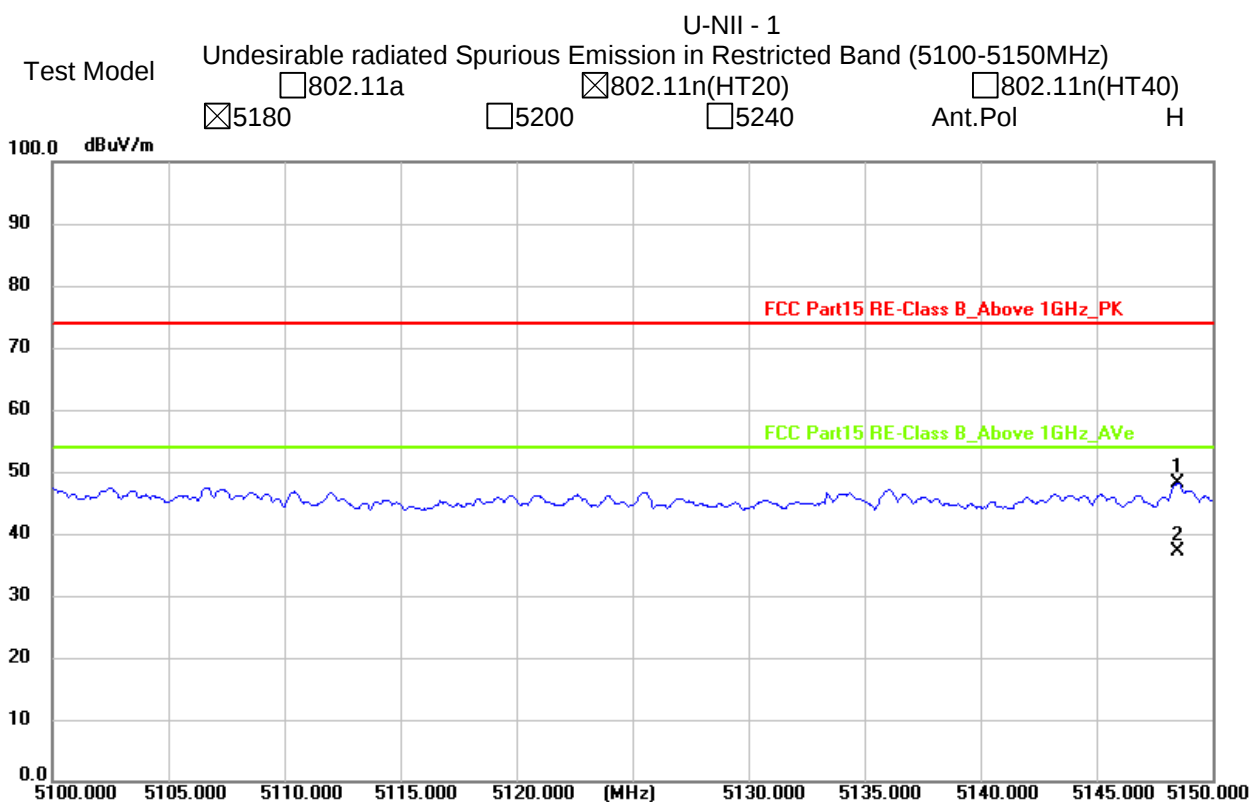
Test mode: 802.11n20 Frequency(MHz): 5180

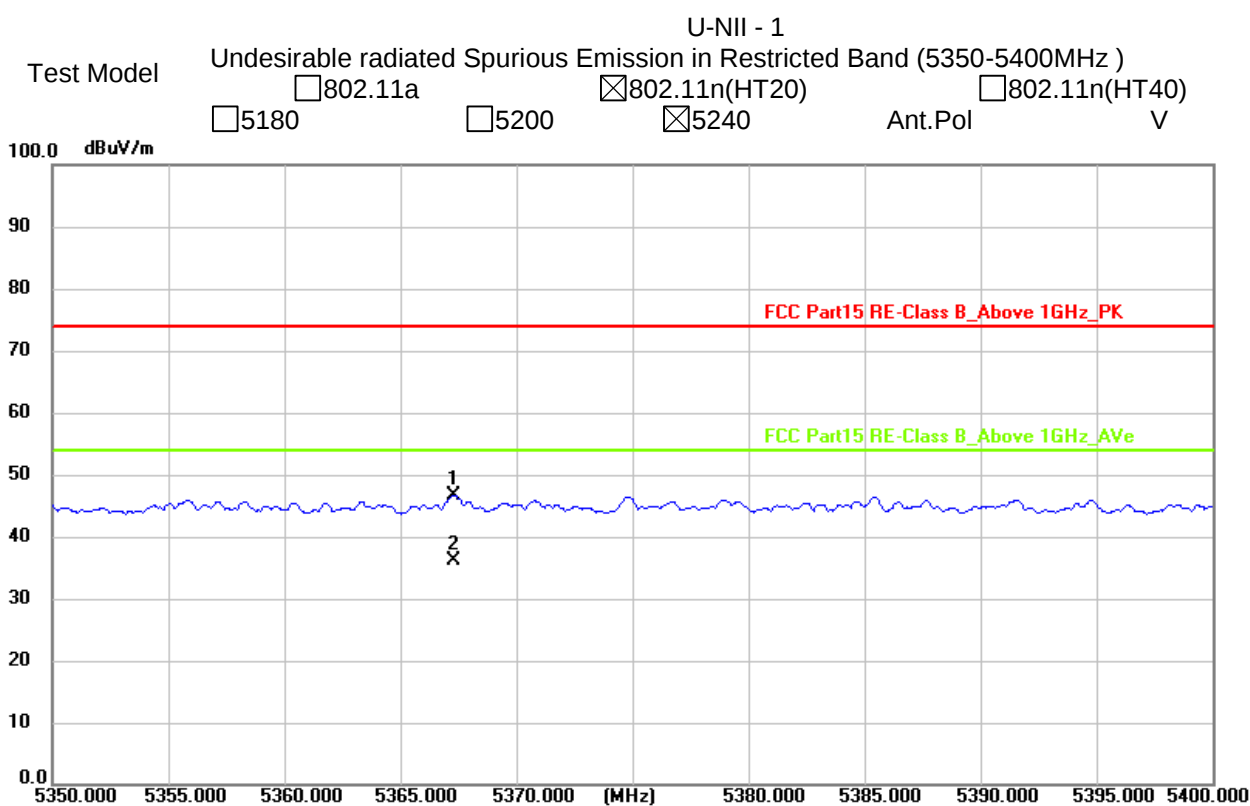
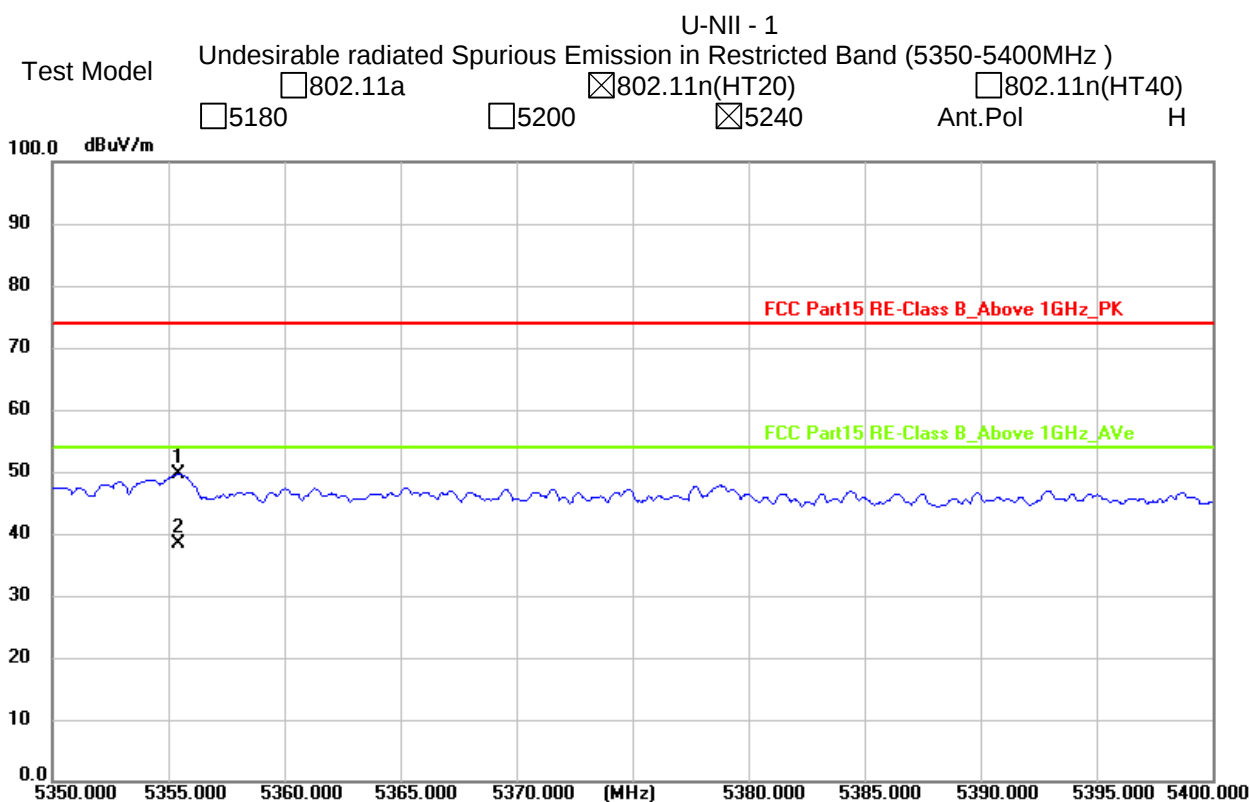
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5148.50	H	48.09	74	37.20	54
5123.15	V	46.65	74	36.20	54

Test mode: 802.11n20 Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5355.45	H	49.58	74	38.30	54
5367.30	V	46.63	74	36.20	54

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





Test Mode:	TX(5.3G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.194	74.38	-20.73	53.65	68.2	-14.55	PK
Vertical	4434.194	59.13	-20.73	38.40	54	-15.60	AV
Vertical	10520.062	62.99	-9.12	53.87	68.2	-14.33	PK
Vertical	10520.062	49.61	-9.12	40.49	54	-13.51	AV
Vertical	15780.103	60.64	-7.77	52.87	74	-21.13	PK
Vertical	15780.103	49.59	-7.77	41.82	54	-12.18	AV
Horizontal	4434.091	70.81	-20.73	50.08	68.2	-18.12	PK
Horizontal	4434.091	59.23	-20.73	38.50	54	-15.50	AV
Horizontal	10520.133	64.10	-9.12	54.98	68.2	-13.22	PK
Horizontal	10520.133	49.61	-9.12	40.49	54	-13.51	AV
Horizontal	15780.089	61.96	-7.77	54.19	74	-19.81	PK
Horizontal	15780.089	49.56	-7.77	41.79	54	-12.21	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.011	70.39	-20.42	49.98	74	-24.02	PK
Vertical	4592.011	59.22	-20.42	38.81	54	-15.19	AV
Vertical	10560.146	61.97	-9.06	52.91	68.2	-15.29	PK
Vertical	10560.146	49.25	-9.06	40.19	54	-13.81	AV
Vertical	15840.159	60.60	-7.75	52.85	74	-21.15	PK
Vertical	15840.159	49.92	-7.75	42.17	54	-11.83	AV
Horizontal	4592.111	73.14	-20.42	52.72	74	-21.28	PK
Horizontal	4592.111	59.01	-20.42	38.60	54	-15.40	AV
Horizontal	10560.012	61.11	-9.06	52.05	68.2	-16.15	PK
Horizontal	10560.012	49.91	-9.06	40.85	54	-13.15	AV
Horizontal	15840.166	61.93	-7.75	54.18	74	-19.82	PK
Horizontal	15840.166	49.54	-7.75	41.79	54	-12.21	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.004	74.02	-20.12	53.90	74	-20.10	PK
Vertical	4739.004	59.73	-20.12	39.61	54	-14.39	AV
Vertical	10640.109	61.44	-8.94	52.50	68.2	-15.70	PK
Vertical	10640.109	49.70	-8.94	40.76	54	-13.24	AV
Vertical	15960.146	60.65	-7.71	52.94	74	-21.06	PK
Vertical	15960.146	49.70	-7.71	41.99	54	-12.01	AV
Horizontal	4739.142	72.16	-20.12	52.03	74	-21.97	PK
Horizontal	4739.142	59.87	-20.12	39.75	54	-14.25	AV
Horizontal	10640.193	63.67	-8.94	54.73	68.2	-13.47	PK
Horizontal	10640.193	49.97	-8.94	41.03	54	-12.97	AV
Horizontal	15960.029	63.45	-7.71	55.74	74	-18.26	PK
Horizontal	15960.029	49.67	-7.71	41.96	54	-12.04	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(5.3G) - 802.11n-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.091	73.02	-20.73	52.29	68.2	-15.91	PK
Vertical	4434.091	59.35	-20.73	38.62	54	-15.38	AV
Vertical	10520.126	61.66	-9.12	52.54	68.2	-15.66	PK
Vertical	10520.126	49.75	-9.12	40.63	54	-13.37	AV
Vertical	15780.093	60.46	-7.77	52.69	74	-21.31	PK
Vertical	15780.093	49.54	-7.77	41.77	54	-12.23	AV
Horizontal	4434.086	73.88	-20.73	53.15	68.2	-15.05	PK
Horizontal	4434.086	59.49	-20.73	38.76	54	-15.24	AV
Horizontal	10520.098	63.11	-9.12	53.99	68.2	-14.21	PK
Horizontal	10520.098	49.20	-9.12	40.08	54	-13.92	AV
Horizontal	15780.182	63.52	-7.77	55.75	74	-18.25	PK
Horizontal	15780.182	49.16	-7.77	41.39	54	-12.61	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.142	71.95	-20.42	51.54	74	-22.46	PK
Vertical	4592.142	59.96	-20.42	39.54	54	-14.46	AV
Vertical	10560.009	61.21	-9.06	52.15	68.2	-16.05	PK
Vertical	10560.009	49.33	-9.06	40.27	54	-13.73	AV
Vertical	15840.187	63.01	-7.75	55.26	74	-18.74	PK
Vertical	15840.187	49.25	-7.75	41.50	54	-12.50	AV
Horizontal	4592.024	72.21	-20.42	51.79	74	-22.21	PK
Horizontal	4592.024	59.10	-20.42	38.68	54	-15.32	AV
Horizontal	10560.189	64.38	-9.06	55.32	68.2	-12.88	PK
Horizontal	10560.189	49.59	-9.06	40.53	54	-13.47	AV
Horizontal	15840.120	60.41	-7.75	52.66	74	-21.34	PK
Horizontal	15840.120	49.43	-7.75	41.68	54	-12.32	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.041	73.69	-20.12	53.56	74	-20.44	PK
Vertical	4739.041	59.30	-20.12	39.18	54	-14.82	AV
Vertical	10640.087	61.85	-8.94	52.91	68.2	-15.29	PK
Vertical	10640.087	49.88	-8.94	40.94	54	-13.06	AV
Vertical	15960.014	63.43	-7.71	55.72	74	-18.28	PK
Vertical	15960.014	49.17	-7.71	41.46	54	-12.54	AV
Horizontal	4739.088	73.13	-20.12	53.01	74	-20.99	PK
Horizontal	4739.088	59.20	-20.12	39.08	54	-14.92	AV
Horizontal	10640.167	61.23	-8.94	52.29	68.2	-15.91	PK
Horizontal	10640.167	49.67	-8.94	40.73	54	-13.27	AV
Horizontal	15960.195	63.93	-7.71	56.22	74	-17.78	PK
Horizontal	15960.195	49.07	-7.71	41.36	54	-12.64	AV

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

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

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

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

Test Mode:	TX(5.3G) - 802.11n-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.102	71.76	-20.73	51.02	68.2	-17.18	PK
Vertical	4434.102	59.20	-20.73	38.46	54	-15.54	AV
Vertical	10540.083	61.23	-9.09	52.14	68.2	-16.06	PK
Vertical	10540.083	49.37	-9.09	40.28	54	-13.72	AV
Vertical	15810.070	63.98	-7.76	56.22	74	-17.78	PK
Vertical	15810.070	49.87	-7.76	42.11	54	-11.89	AV
Horizontal	4434.159	74.56	-20.73	53.83	74	-20.17	PK
Horizontal	4434.159	59.93	-20.73	39.20	54	-14.80	AV
Horizontal	10540.166	61.16	-9.09	52.07	68.2	-16.13	PK
Horizontal	10540.166	49.68	-9.09	40.59	54	-13.41	AV
Horizontal	15810.155	64.52	-7.76	56.76	74	-17.24	PK
Horizontal	15810.155	49.27	-7.76	41.51	54	-12.49	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.038	73.52	-20.12	53.40	68.2	-14.80	PK
Vertical	4739.038	59.51	-20.12	39.39	54	-14.61	AV
Vertical	10620.074	60.48	-8.97	51.51	68.2	-16.69	PK
Vertical	10620.074	49.86	-8.97	40.89	54	-13.11	AV
Vertical	15930.039	60.43	-7.72	52.71	74	-21.29	PK
Vertical	15930.039	49.33	-7.72	41.61	54	-12.39	AV
Horizontal	4739.156	72.82	-20.12	52.69	68.2	-15.51	PK
Horizontal	4739.156	59.92	-20.12	39.80	54	-14.20	AV
Horizontal	10620.144	61.99	-8.97	53.02	68.2	-15.18	PK
Horizontal	10620.144	49.53	-8.97	40.56	54	-13.44	AV
Horizontal	15930.055	61.43	-7.72	53.71	74	-20.29	PK
Horizontal	15930.055	49.47	-7.72	41.75	54	-12.25	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(5.3G) - 802.11ac-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.112	70.05	-20.73	49.32	68.2	-18.88	PK
Vertical	4434.112	59.43	-20.73	38.70	54	-15.30	AV
Vertical	10520.129	64.05	-9.12	54.93	68.2	-13.27	PK
Vertical	10520.129	49.95	-9.12	40.83	54	-13.17	AV
Vertical	15780.040	62.31	-7.77	54.54	74	-19.46	PK
Vertical	15780.040	49.16	-7.77	41.39	54	-12.61	AV
Horizontal	4434.038	73.07	-20.73	52.34	68.2	-15.86	PK
Horizontal	4434.038	59.73	-20.73	39.00	54	-15.00	AV
Horizontal	10520.146	64.57	-9.12	55.45	68.2	-12.75	PK
Horizontal	10520.146	49.31	-9.12	40.19	54	-13.81	AV
Horizontal	15780.053	61.16	-7.77	53.39	74	-20.61	PK
Horizontal	15780.053	49.18	-7.77	41.41	54	-12.59	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.072	72.38	-20.42	51.96	74	-22.04	PK
Vertical	4592.072	59.90	-20.42	39.49	54	-14.51	AV
Vertical	10560.020	61.26	-9.06	52.20	68.2	-16.00	PK
Vertical	10560.020	49.55	-9.06	40.49	54	-13.51	AV
Vertical	15840.023	61.80	-7.75	54.05	74	-19.95	PK
Vertical	15840.023	49.70	-7.75	41.95	54	-12.05	AV
Horizontal	4592.153	70.97	-20.42	50.56	74	-23.44	PK
Horizontal	4592.153	59.97	-20.42	39.55	54	-14.45	AV
Horizontal	10560.196	61.46	-9.06	52.40	68.2	-15.80	PK
Horizontal	10560.196	49.96	-9.06	40.90	54	-13.10	AV
Horizontal	15840.198	62.85	-7.75	55.10	74	-18.90	PK
Horizontal	15840.198	49.88	-7.75	42.13	54	-11.87	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.143	73.75	-20.12	53.62	74	-20.38	PK
Vertical	4739.143	59.60	-20.12	39.48	54	-14.52	AV
Vertical	10640.042	60.23	-8.94	51.29	68.2	-16.91	PK
Vertical	10640.042	49.50	-8.94	40.56	54	-13.44	AV
Vertical	15960.073	63.88	-7.71	56.17	74	-17.83	PK
Vertical	15960.073	49.56	-7.71	41.85	54	-12.15	AV
Horizontal	4739.039	71.05	-20.12	50.92	74	-23.08	PK
Horizontal	4739.039	59.47	-20.12	39.34	54	-14.66	AV
Horizontal	10640.152	60.40	-8.94	51.46	68.2	-16.74	PK
Horizontal	10640.152	49.89	-8.94	40.95	54	-13.05	AV
Horizontal	15960.056	62.80	-7.71	55.09	74	-18.91	PK
Horizontal	15960.056	49.08	-7.71	41.37	54	-12.63	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(5.3G) - 802.11ac-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.152	74.67	-20.73	53.94	68.2	-14.26	PK
Vertical	4434.152	59.32	-20.73	38.59	54	-15.41	AV
Vertical	10540.069	61.47	-9.09	52.38	68.2	-15.82	PK
Vertical	10540.069	49.03	-9.09	39.94	54	-14.06	AV
Vertical	15810.186	63.12	-7.76	55.36	74	-18.64	PK
Vertical	15810.186	49.17	-7.76	41.41	54	-12.59	AV
Horizontal	4434.051	73.30	-20.73	52.57	74	-21.43	PK
Horizontal	4434.051	59.26	-20.73	38.52	54	-15.48	AV
Horizontal	10540.169	63.34	-9.09	54.25	68.2	-13.95	PK
Horizontal	10540.169	49.19	-9.09	40.10	54	-13.90	AV
Horizontal	15810.062	63.75	-7.76	55.99	74	-18.01	PK
Horizontal	15810.062	49.52	-7.76	41.76	54	-12.24	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.019	74.18	-20.12	54.06	68.2	-14.14	PK
Vertical	4739.019	59.83	-20.12	39.71	54	-14.29	AV
Vertical	10620.161	63.67	-8.97	54.70	68.2	-13.50	PK
Vertical	10620.161	49.76	-8.97	40.79	54	-13.21	AV
Vertical	15930.106	61.13	-7.72	53.41	74	-20.59	PK
Vertical	15930.106	49.43	-7.72	41.71	54	-12.29	AV
Horizontal	4739.149	72.66	-20.12	52.54	68.2	-15.66	PK
Horizontal	4739.149	59.15	-20.12	39.03	54	-14.97	AV
Horizontal	10620.165	60.97	-8.97	52.00	68.2	-16.20	PK
Horizontal	10620.165	49.91	-8.97	40.94	54	-13.06	AV
Horizontal	15930.056	62.72	-7.72	55.00	74	-19.00	PK
Horizontal	15930.056	49.20	-7.72	41.48	54	-12.52	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(5.3G) - 802.11ac-HT80
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5290 MHz)-Above 1G							
Vertical	4434.110	74.19	-20.73	53.45	68.2	-14.75	PK
Vertical	4434.110	59.15	-20.73	38.42	54	-15.58	AV
Vertical	10580.086	63.64	-9.03	54.61	68.2	-13.59	PK
Vertical	10580.086	49.20	-9.03	40.17	54	-13.83	AV
Vertical	15870.093	62.87	-7.74	55.13	74	-18.87	PK
Vertical	15870.093	49.57	-7.74	41.83	54	-12.17	AV
Horizontal	4434.050	70.88	-20.73	50.15	68.2	-18.05	PK
Horizontal	4434.050	59.14	-20.73	38.41	54	-15.59	AV
Horizontal	10580.186	64.21	-9.03	55.18	68.2	-13.02	PK
Horizontal	10580.186	49.49	-9.03	40.46	54	-13.54	AV
Horizontal	15870.176	63.59	-7.74	55.85	74	-18.15	PK
Horizontal	15870.176	49.89	-7.74	42.15	54	-11.85	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(5.6G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.030	70.18	-20.73	49.44	68.2	-18.76	PK
Vertical	4434.030	59.85	-20.73	39.12	54	-14.88	AV
Vertical	11000.010	63.74	-8.40	55.34	68.2	-12.86	PK
Vertical	11000.010	49.00	-8.40	40.60	54	-13.40	AV
Vertical	16500.047	64.81	-6.09	58.72	74	-15.28	PK
Vertical	16500.047	49.23	-6.09	43.14	54	-10.86	AV
Horizontal	4434.123	74.78	-20.73	54.04	68.2	-14.16	PK
Horizontal	4434.123	59.71	-20.73	38.97	54	-15.03	AV
Horizontal	11000.094	64.21	-8.40	55.81	68.2	-12.39	PK
Horizontal	11000.094	49.18	-8.40	40.78	54	-13.22	AV
Horizontal	16500.082	60.44	-6.09	54.35	74	-19.65	PK
Horizontal	16500.082	49.61	-6.09	43.52	54	-10.48	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.133	70.24	-20.42	49.82	74	-24.18	PK
Vertical	4592.133	59.64	-20.42	39.23	54	-14.77	AV
Vertical	11160.198	60.22	-8.53	51.69	68.2	-16.51	PK
Vertical	11160.198	49.74	-8.53	41.21	54	-12.79	AV
Vertical	16740.156	64.40	-5.31	59.09	74	-14.91	PK
Vertical	16740.156	49.80	-5.31	44.49	54	-9.51	AV
Horizontal	4592.032	71.80	-20.42	51.39	74	-22.61	PK
Horizontal	4592.032	59.39	-20.42	38.97	54	-15.03	AV
Horizontal	11160.092	61.97	-8.53	53.44	68.2	-14.76	PK
Horizontal	11160.092	49.47	-8.53	40.94	54	-13.06	AV
Horizontal	16740.149	61.86	-5.31	56.55	74	-17.45	PK
Horizontal	16740.149	49.06	-5.31	43.75	54	-10.25	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.109	73.73	-20.12	53.61	74	-20.39	PK
Vertical	4739.109	59.03	-20.12	38.91	54	-15.09	AV
Vertical	11400.094	64.27	-8.72	55.55	68.2	-12.65	PK
Vertical	11400.094	49.51	-8.72	40.79	54	-13.21	AV
Vertical	17100.137	62.59	-3.92	58.67	74	-15.33	PK
Vertical	17100.137	49.15	-3.92	45.23	54	-8.77	AV
Horizontal	4739.091	70.26	-20.12	50.14	74	-23.86	PK
Horizontal	4739.091	59.49	-20.12	39.37	54	-14.63	AV
Horizontal	11400.200	60.44	-8.72	51.72	68.2	-16.48	PK
Horizontal	11400.200	49.80	-8.72	41.08	54	-12.92	AV
Horizontal	17100.197	63.92	-3.92	60.00	74	-14.00	PK
Horizontal	17100.197	49.57	-3.92	45.65	54	-8.35	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(5.6G) - 802.11n-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.034	74.66	-20.73	53.93	68.2	-14.27	PK
Vertical	4434.034	59.91	-20.73	39.18	54	-14.82	AV
Vertical	11000.060	63.67	-8.40	55.27	68.2	-12.93	PK
Vertical	11000.060	49.44	-8.40	41.04	54	-12.96	AV
Vertical	16500.030	63.11	-6.09	57.02	74	-16.98	PK
Vertical	16500.030	49.43	-6.09	43.34	54	-10.66	AV
Horizontal	4434.174	70.20	-20.73	49.47	68.2	-18.73	PK
Horizontal	4434.174	59.35	-20.73	38.62	54	-15.38	AV
Horizontal	11000.055	60.10	-8.40	51.70	68.2	-16.50	PK
Horizontal	11000.055	49.57	-8.40	41.17	54	-12.83	AV
Horizontal	16500.183	61.10	-6.09	55.01	74	-18.99	PK
Horizontal	16500.183	49.89	-6.09	43.80	54	-10.20	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.131	74.29	-20.42	53.87	74	-20.13	PK
Vertical	4592.131	59.61	-20.42	39.19	54	-14.81	AV
Vertical	11160.039	64.38	-8.53	55.85	68.2	-12.35	PK
Vertical	11160.039	49.52	-8.53	40.99	54	-13.01	AV
Vertical	16740.106	62.00	-5.31	56.69	74	-17.31	PK
Vertical	16740.106	49.30	-5.31	43.99	54	-10.01	AV
Horizontal	4592.024	72.99	-20.42	52.57	74	-21.43	PK
Horizontal	4592.024	59.47	-20.42	39.06	54	-14.94	AV
Horizontal	11160.004	63.28	-8.53	54.75	68.2	-13.45	PK
Horizontal	11160.004	49.08	-8.53	40.55	54	-13.45	AV
Horizontal	16740.128	62.33	-5.31	57.02	74	-16.98	PK
Horizontal	16740.128	49.07	-5.31	43.76	54	-10.24	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.101	72.68	-20.12	52.56	74	-21.44	PK
Vertical	4739.101	59.82	-20.12	39.70	54	-14.30	AV
Vertical	11400.087	61.43	-8.72	52.71	68.2	-15.49	PK
Vertical	11400.087	49.46	-8.72	40.74	54	-13.26	AV
Vertical	17100.037	63.19	-3.92	59.27	74	-14.73	PK
Vertical	17100.037	49.20	-3.92	45.28	54	-8.72	AV
Horizontal	4739.067	73.50	-20.12	53.38	74	-20.62	PK
Horizontal	4739.067	59.05	-20.12	38.93	54	-15.07	AV
Horizontal	11400.163	64.16	-8.72	55.44	68.2	-12.76	PK
Horizontal	11400.163	49.31	-8.72	40.59	54	-13.41	AV
Horizontal	17100.114	60.51	-3.92	56.59	74	-17.41	PK
Horizontal	17100.114	49.70	-3.92	45.78	54	-8.22	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(5.6G) - 802.11n-HT40
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.037	64.69	-20.73	43.96	68.2	-24.24	PK
Vertical	4434.037	43.50	-20.73	22.77	54	-31.23	AV
Vertical	11020.193	63.92	-8.42	55.50	68.2	-12.70	PK
Vertical	11020.193	43.50	-8.42	35.08	54	-18.92	AV
Vertical	16530.129	61.11	-5.99	55.12	74	-18.88	PK
Vertical	16530.129	43.82	-5.99	37.83	54	-16.17	AV
Horizontal	4434.159	60.64	-20.73	39.91	74	-34.09	PK
Horizontal	4434.159	43.60	-20.73	22.87	54	-31.13	AV
Horizontal	11020.123	51.52	-8.42	43.10	68.2	-25.10	PK
Horizontal	11020.123	43.76	-8.42	35.34	54	-18.66	AV
Horizontal	16530.077	54.15	-5.99	48.16	74	-25.84	PK
Horizontal	16530.077	41.76	-5.99	35.77	54	-18.23	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.026	62.32	-20.42	41.90	74	-32.10	PK
Vertical	4592.026	43.34	-20.42	22.93	54	-31.07	AV
Vertical	11100.001	61.68	-8.40	53.28	68.2	-14.92	PK
Vertical	11100.001	43.75	-8.40	35.35	54	-18.65	AV
Vertical	16650.137	64.88	-5.60	59.28	74	-14.72	PK
Vertical	16650.137	43.95	-5.60	38.35	54	-15.65	AV
Horizontal	4592.062	63.40	-20.42	42.98	74	-31.02	PK
Horizontal	4592.062	43.08	-20.42	22.67	54	-31.33	AV
Horizontal	11100.149	53.40	-8.40	45.00	68.2	-23.20	PK
Horizontal	11100.149	40.42	-8.40	32.02	54	-21.98	AV
Horizontal	16650.047	52.68	-5.60	47.08	74	-26.92	PK
Horizontal	16650.047	42.03	-5.60	36.43	54	-17.57	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.154	60.36	-20.12	40.23	68.2	-27.97	PK
Vertical	4739.154	43.30	-20.12	23.17	54	-30.83	AV
Vertical	11340.001	60.27	-8.67	51.60	68.2	-16.60	PK
Vertical	11340.001	43.20	-8.67	34.53	54	-19.47	AV
Vertical	17010.060	60.21	-4.41	55.80	74	-18.20	PK
Vertical	17010.060	43.63	-4.41	39.22	54	-14.78	AV
Horizontal	4739.074	63.09	-20.12	42.97	68.2	-25.23	PK
Horizontal	4739.074	43.55	-20.12	23.43	54	-30.57	AV
Horizontal	11340.031	51.96	-8.67	43.29	68.2	-24.91	PK
Horizontal	11340.031	43.73	-8.67	35.06	54	-18.94	AV
Horizontal	17010.137	52.41	-4.41	48.00	74	-26.00	PK
Horizontal	17010.137	41.17	-4.41	36.76	54	-17.24	AV

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

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

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

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

Test Mode:	TX(5.6G) - 802.11ac-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.176	72.03	-20.73	51.30	68.2	-16.90	PK
Vertical	4434.176	59.82	-20.73	39.09	54	-14.91	AV
Vertical	11000.138	63.15	-8.40	54.75	68.2	-13.45	PK
Vertical	11000.138	49.08	-8.40	40.68	54	-13.32	AV
Vertical	16500.048	60.79	-6.09	54.70	74	-19.30	PK
Vertical	16500.048	49.53	-6.09	43.44	54	-10.56	AV
Horizontal	4434.122	72.08	-20.73	51.35	68.2	-16.85	PK
Horizontal	4434.122	59.02	-20.73	38.29	54	-15.71	AV
Horizontal	11000.049	60.75	-8.40	52.35	68.2	-15.85	PK
Horizontal	11000.049	49.44	-8.40	41.04	54	-12.96	AV
Horizontal	16500.166	62.77	-6.09	56.68	74	-17.32	PK
Horizontal	16500.166	49.29	-6.09	43.20	54	-10.80	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.171	70.67	-20.42	50.25	74	-23.75	PK
Vertical	4592.171	59.80	-20.42	39.39	54	-14.61	AV
Vertical	11160.063	64.24	-8.53	55.71	68.2	-12.49	PK
Vertical	11160.063	49.78	-8.53	41.25	54	-12.75	AV
Vertical	16740.051	63.56	-5.31	58.25	74	-15.75	PK
Vertical	16740.051	49.23	-5.31	43.92	54	-10.08	AV
Horizontal	4592.049	74.78	-20.42	54.37	74	-19.63	PK
Horizontal	4592.049	59.91	-20.42	39.49	54	-14.51	AV
Horizontal	11160.101	62.97	-8.53	54.44	68.2	-13.76	PK
Horizontal	11160.101	49.47	-8.53	40.94	54	-13.06	AV
Horizontal	16740.049	63.01	-5.31	57.70	74	-16.30	PK
Horizontal	16740.049	49.66	-5.31	44.35	54	-9.65	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.024	74.87	-20.12	54.75	74	-19.25	PK
Vertical	4739.024	59.63	-20.12	39.50	54	-14.50	AV
Vertical	11400.182	62.20	-8.72	53.48	68.2	-14.72	PK
Vertical	11400.182	49.33	-8.72	40.61	54	-13.39	AV
Vertical	17100.044	60.96	-3.92	57.04	74	-16.96	PK
Vertical	17100.044	49.33	-3.92	45.41	54	-8.59	AV
Horizontal	4739.131	71.83	-20.12	51.71	74	-22.29	PK
Horizontal	4739.131	59.86	-20.12	39.74	54	-14.26	AV
Horizontal	11400.031	60.04	-8.72	51.32	68.2	-16.88	PK
Horizontal	11400.031	49.05	-8.72	40.33	54	-13.67	AV
Horizontal	17100.018	62.09	-3.92	58.17	74	-15.83	PK
Horizontal	17100.018	49.58	-3.92	45.66	54	-8.34	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 - Preamplifier Factor = Level.

Test Mode:	TX(5.6G) - 802.11ac-HT40
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.181	62.80	-20.73	42.06	68.2	-26.14	PK
Vertical	4434.181	43.47	-20.73	22.74	54	-31.26	AV
Vertical	11020.196	62.84	-8.42	54.42	68.2	-13.78	PK
Vertical	11020.196	44.00	-8.42	35.58	54	-18.42	AV
Vertical	16530.002	63.86	-5.99	57.87	74	-16.13	PK
Vertical	16530.002	43.64	-5.99	37.65	54	-16.35	AV
Horizontal	4434.050	63.67	-20.73	42.94	74	-31.06	PK
Horizontal	4434.050	43.37	-20.73	22.63	54	-31.37	AV
Horizontal	11020.034	52.68	-8.42	44.26	68.2	-23.94	PK
Horizontal	11020.034	44.35	-8.42	35.93	54	-18.07	AV
Horizontal	16530.171	52.99	-5.99	47.00	74	-27.00	PK
Horizontal	16530.171	44.49	-5.99	38.50	54	-15.50	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.077	63.44	-20.42	43.03	74	-30.97	PK
Vertical	4592.077	43.01	-20.42	22.60	54	-31.40	AV
Vertical	11100.031	62.03	-8.40	53.63	68.2	-14.57	PK
Vertical	11100.031	43.67	-8.40	35.27	54	-18.73	AV
Vertical	16650.005	61.62	-5.60	56.02	74	-17.98	PK
Vertical	16650.005	43.98	-5.60	38.38	54	-15.62	AV
Horizontal	4592.058	62.29	-20.42	41.87	74	-32.13	PK
Horizontal	4592.058	43.58	-20.42	23.17	54	-30.83	AV
Horizontal	11100.125	51.72	-8.40	43.32	68.2	-24.88	PK
Horizontal	11100.125	40.41	-8.40	32.01	54	-21.99	AV
Horizontal	16650.028	53.08	-5.60	47.48	74	-26.52	PK
Horizontal	16650.028	44.60	-5.60	39.00	54	-15.00	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.166	64.64	-20.12	44.52	68.2	-23.68	PK
Vertical	4739.166	43.08	-20.12	22.96	54	-31.04	AV
Vertical	11340.151	63.03	-8.67	54.36	68.2	-13.84	PK
Vertical	11340.151	43.73	-8.67	35.06	54	-18.94	AV
Vertical	17010.004	62.43	-4.41	58.02	74	-15.98	PK
Vertical	17010.004	43.05	-4.41	38.64	54	-15.36	AV
Horizontal	4739.059	62.38	-20.12	42.26	68.2	-25.94	PK
Horizontal	4739.059	43.15	-20.12	23.03	54	-30.97	AV
Horizontal	11340.098	52.19	-8.67	43.52	68.2	-24.68	PK
Horizontal	11340.098	40.46	-8.67	31.79	54	-22.21	AV
Horizontal	17010.032	54.24	-4.41	49.83	74	-24.17	PK
Horizontal	17010.032	42.06	-4.41	37.65	54	-16.35	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(5.6G) - 802.11ac-HT80
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5530 MHz)-Above 1G							
Vertical	4434.036	64.29	-20.73	43.56	68.2	-24.64	PK
Vertical	4434.036	43.54	-20.73	22.81	54	-31.19	AV
Vertical	11060.045	62.26	-8.45	53.81	68.2	-14.39	PK
Vertical	11060.045	43.91	-8.45	35.46	54	-18.54	AV
Vertical	16590.060	63.01	-5.79	57.22	74	-16.78	PK
Vertical	16590.060	43.11	-5.79	37.32	54	-16.68	AV
Horizontal	4434.121	64.66	-20.73	43.93	68.2	-24.27	PK
Horizontal	4434.121	43.60	-20.73	22.87	54	-31.13	AV
Horizontal	11060.139	50.25	-8.45	41.80	68.2	-26.40	PK
Horizontal	11060.139	41.15	-8.45	32.70	54	-21.30	AV
Horizontal	16590.197	54.46	-5.79	48.67	74	-25.33	PK
Horizontal	16590.197	42.24	-5.79	36.45	54	-17.55	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	4679.035	73.01	-20.24	52.77	74	-21.23	Pk
Vertical	4679.035	59.40	-20.24	39.16	54	-14.84	AV
Vertical	11490.110	61.39	-8.79	52.60	68.2	-15.60	Pk
Vertical	11490.110	49.77	-8.79	40.98	54	-13.02	AV
Vertical	17235.061	59.13	-3.18	55.95	68.2	-12.25	Pk
Vertical	17235.061	44.59	-3.18	41.41	54	-12.59	AV
Horizontal	4679.118	71.51	-20.73	50.78	74	-23.22	Pk
Horizontal	4679.118	59.15	-20.73	38.42	54	-15.58	AV
Horizontal	11490.025	63.71	-8.79	54.92	68.2	-13.28	Pk
Horizontal	11490.025	49.06	-8.79	40.27	54	-13.73	AV
Horizontal	17235.181	59.72	-3.18	56.54	68.2	-11.66	Pk
Horizontal	17235.181	44.72	-3.18	41.54	54	-12.46	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.078	71.52	-20.42	51.10	74	-22.90	Pk
Vertical	4592.078	59.03	-20.42	38.62	54	-15.38	AV
Vertical	11570.177	64.40	-8.86	55.54	68.2	-12.66	Pk
Vertical	11570.177	49.60	-8.86	40.74	54	-13.26	AV
Vertical	17355.137	58.92	-2.52	56.40	68.2	-11.80	Pk
Vertical	17355.137	44.64	-2.52	42.12	54	-11.88	AV
Horizontal	4592.060	72.42	-20.42	52.00	74	-22.00	Pk
Horizontal	4592.060	59.42	-20.42	39.00	54	-15.00	AV
Horizontal	11570.058	60.88	-8.86	52.02	68.2	-16.18	Pk
Horizontal	11570.058	49.86	-8.86	41.00	54	-13.00	AV
Horizontal	17355.134	55.33	-2.52	52.81	68.2	-15.39	Pk
Horizontal	17355.134	44.98	-2.52	42.46	54	-11.54	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.021	74.15	-18.93	55.22	68.2	-12.98	Pk
Vertical	6039.021	59.37	-18.93	40.44	54	-13.56	AV
Vertical	11650.073	61.31	-8.92	52.39	74	-21.61	Pk
Vertical	11650.073	49.32	-8.92	40.40	54	-13.60	AV
Vertical	17475.112	59.96	-1.86	58.10	68.2	-10.10	Pk
Vertical	17475.112	44.29	-1.86	42.43	54	-11.57	AV
Horizontal	6039.192	70.41	-18.93	51.48	68.2	-16.72	Pk
Horizontal	6039.192	59.63	-18.93	40.70	54	-13.30	AV
Horizontal	11650.151	64.34	-8.92	55.42	74	-18.58	Pk
Horizontal	11650.151	49.98	-8.92	41.06	54	-12.94	AV
Horizontal	17475.173	57.68	-1.86	55.82	68.2	-12.38	Pk
Horizontal	17475.173	44.01	-1.86	42.15	54	-11.85	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.

The worst case is Antenna A.

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	4679.063	74.53	-20.24	54.29	74	-19.71	Pk
Vertical	4679.063	59.11	-20.24	38.87	54	-15.13	AV
Vertical	11490.132	61.14	-8.79	52.35	68.2	-15.85	Pk
Vertical	11490.132	49.54	-8.79	40.75	54	-13.25	AV
Vertical	17235.176	58.05	-3.18	54.87	68.2	-13.33	Pk
Vertical	17235.176	44.82	-3.18	41.64	54	-12.36	AV
Horizontal	4679.148	74.86	-20.24	54.62	74	-19.38	Pk
Horizontal	4679.148	59.65	-20.24	39.41	54	-14.59	AV
Horizontal	11490.134	61.63	-8.79	52.84	68.2	-15.36	Pk
Horizontal	11490.134	49.24	-8.79	40.45	54	-13.55	AV
Horizontal	17235.041	56.46	-3.18	53.28	68.2	-14.92	Pk
Horizontal	17235.041	44.50	-3.18	41.32	54	-12.68	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.180	72.90	-20.42	52.49	74	-21.51	Pk
Vertical	4592.180	59.54	-20.42	39.12	54	-14.88	AV
Vertical	11570.086	61.01	-8.86	52.15	68.2	-16.05	Pk
Vertical	11570.086	49.09	-8.86	40.23	54	-13.77	AV
Vertical	17355.061	55.65	-2.52	53.13	68.2	-15.07	Pk
Vertical	17355.061	44.67	-2.52	42.15	54	-11.85	AV
Horizontal	4592.188	74.04	-20.42	53.63	74	-20.37	Pk
Horizontal	4592.188	59.65	-20.42	39.23	54	-14.77	AV
Horizontal	11570.088	63.82	-8.86	54.96	68.2	-13.24	Pk
Horizontal	11570.088	49.97	-8.86	41.11	54	-12.89	AV
Horizontal	17355.017	59.72	-2.52	57.20	68.2	-11.00	Pk
Horizontal	17355.017	44.70	-2.52	42.18	54	-11.82	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.131	71.35	-18.93	52.42	68.2	-15.78	Pk
Vertical	6039.131	59.86	-18.93	40.93	54	-13.07	AV
Vertical	11650.053	60.78	-8.92	51.86	74	-22.14	Pk
Vertical	11650.053	49.38	-8.92	40.46	54	-13.54	AV
Vertical	17475.041	58.08	-1.86	56.22	68.2	-11.98	Pk
Vertical	17475.041	44.64	-1.86	42.78	54	-11.22	AV
Horizontal	6039.175	74.38	-18.93	55.45	68.2	-12.75	Pk
Horizontal	6039.175	59.53	-18.93	40.59	54	-13.41	AV
Horizontal	11650.037	60.40	-8.92	51.48	74	-22.52	Pk
Horizontal	11650.037	49.76	-8.92	40.84	54	-13.16	AV
Horizontal	17475.069	56.05	-1.86	54.19	68.2	-14.01	Pk
Horizontal	17475.069	44.91	-1.86	43.05	54	-10.95	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 is MIMO(antenna A+ antenna B) Mode.

Test Mode: TX(5.8G) - 802.11n-HT40

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	4679.181	70.88	-20.24	50.64	74	-23.36	AV
Vertical	4679.181	59.59	-20.24	39.35	54	-14.65	Pk
Vertical	11510.171	60.25	-8.81	51.44	74	-22.56	AV
Vertical	11510.171	49.47	-8.81	40.66	54	-13.34	Pk
Vertical	17265.058	59.23	-3.01	56.22	68.2	-11.98	AV
Vertical	17265.058	44.67	-3.01	41.66	54	-12.34	Pk
Horizontal	4679.043	74.09	-20.24	53.85	74	-20.15	AV
Horizontal	4679.043	59.87	-20.24	39.63	54	-14.37	Pk
Horizontal	11510.180	62.87	-8.81	54.06	74	-19.94	AV
Horizontal	11510.180	49.91	-8.81	41.10	54	-12.90	Pk
Horizontal	17265.028	58.51	-3.01	55.50	68.2	-12.70	AV
Horizontal	17265.028	44.08	-3.01	41.07	54	-12.93	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.050	70.53	-18.93	51.60	68.2	-16.60	Pk
Vertical	6039.050	59.04	-18.93	40.11	54	-13.89	AV
Vertical	11590.105	62.04	-8.87	53.17	74	-20.83	Pk
Vertical	11590.105	49.82	-8.87	40.95	54	-13.05	AV
Vertical	17385.038	59.71	-2.35	57.36	68.2	-10.84	Pk
Vertical	17385.038	44.25	-2.35	41.90	54	-12.10	AV
Horizontal	6039.057	71.47	-18.93	52.53	68.2	-15.67	Pk
Horizontal	6039.057	59.14	-18.93	40.20	54	-13.80	AV
Horizontal	11590.200	62.15	-8.87	53.28	74	-20.72	Pk
Horizontal	11590.200	49.97	-8.87	41.10	54	-12.90	AV
Horizontal	17385.165	59.97	-2.35	57.62	68.2	-10.58	Pk
Horizontal	17385.165	44.11	-2.35	41.76	54	-12.24	AV

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

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	4679.032	71.01	-20.24	50.76	74	-23.24	Pk
Vertical	4679.032	59.49	-20.24	39.25	54	-14.75	AV
Vertical	11490.111	64.87	-8.79	56.08	68.2	-12.12	Pk
Vertical	11490.111	49.63	-8.79	40.84	54	-13.16	AV
Vertical	17235.008	55.58	-3.18	52.40	68.2	-15.80	Pk
Vertical	17235.008	44.10	-3.18	40.92	54	-13.08	AV
Horizontal	4679.192	72.35	-20.24	52.11	74	-21.89	Pk
Horizontal	4679.192	59.01	-20.24	38.77	54	-15.23	AV
Horizontal	11490.012	60.45	-8.79	51.66	68.2	-16.54	Pk
Horizontal	11490.012	49.41	-8.79	40.62	54	-13.38	AV
Horizontal	17235.040	57.61	-3.18	54.43	68.2	-13.77	Pk
Horizontal	17235.040	44.79	-3.18	41.61	54	-12.39	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.092	73.63	-20.42	53.22	74	-20.78	Pk
Vertical	4592.092	59.27	-20.42	38.85	54	-15.15	AV
Vertical	11570.070	60.76	-8.86	51.90	68.2	-16.30	Pk
Vertical	11570.070	49.66	-8.86	40.80	54	-13.20	AV
Vertical	17355.178	58.88	-2.52	56.36	68.2	-11.84	Pk
Vertical	17355.178	44.63	-2.52	42.11	54	-11.89	AV
Horizontal	4592.112	72.07	-20.42	51.65	74	-22.35	Pk
Horizontal	4592.112	59.06	-20.42	38.65	54	-15.35	AV
Horizontal	11570.188	60.25	-8.86	51.39	68.2	-16.81	Pk
Horizontal	11570.188	49.57	-8.86	40.71	54	-13.29	AV
Horizontal	17355.024	57.33	-2.52	54.81	68.2	-13.39	Pk
Horizontal	17355.024	44.59	-2.52	42.07	54	-11.93	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.095	71.94	-18.93	53.01	68.2	-15.19	Pk
Vertical	6039.095	59.58	-18.93	40.65	54	-13.35	AV
Vertical	11650.196	63.76	-8.92	54.84	74	-19.16	Pk
Vertical	11650.196	50.00	-8.92	41.08	54	-12.92	AV
Vertical	17475.192	57.31	-1.86	55.45	68.2	-12.75	Pk
Vertical	17475.192	44.62	-1.86	42.76	54	-11.24	AV
Horizontal	6039.174	73.86	-18.93	54.93	68.2	-13.27	Pk
Horizontal	6039.174	59.29	-18.93	40.36	54	-13.64	AV
Horizontal	11650.115	61.71	-8.92	52.79	74	-21.21	Pk
Horizontal	11650.115	49.17	-8.92	40.25	54	-13.75	AV
Horizontal	17475.003	59.03	-1.86	57.17	68.2	-11.03	Pk
Horizontal	17475.003	44.99	-1.86	43.13	54	-10.87	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 is MIMO(antenna A+ antenna B) Mode.

Test Mode: TX(5.8G) - 802.11ac-HT40

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	4679.179	70.90	-20.24	50.65	74	-23.35	AV
Vertical	4679.179	59.14	-20.24	38.90	54	-15.10	Pk
Vertical	11510.129	61.39	-8.81	52.58	74	-21.42	AV
Vertical	11510.129	49.02	-8.81	40.21	54	-13.79	Pk
Vertical	17265.099	55.56	-3.01	52.55	68.2	-15.65	AV
Vertical	17265.099	44.65	-3.01	41.64	54	-12.36	Pk
Horizontal	4679.170	74.47	-20.24	54.23	74	-19.77	AV
Horizontal	4679.170	59.33	-20.24	39.09	54	-14.91	Pk
Horizontal	11510.089	60.41	-8.81	51.60	74	-22.40	AV
Horizontal	11510.089	49.71	-8.81	40.90	54	-13.10	Pk
Horizontal	17265.141	57.52	-3.01	54.51	68.2	-13.69	AV
Horizontal	17265.141	44.33	-3.01	41.32	54	-12.68	AV
middle Channel (5795 MHz)-Above 1G							
Vertical	6039.148	74.71	-18.93	55.77	68.2	-12.43	Pk
Vertical	6039.148	59.31	-18.93	40.38	54	-13.62	AV
Vertical	11590.163	60.22	-8.87	51.35	74	-22.65	Pk
Vertical	11590.163	49.59	-8.87	40.72	54	-13.28	AV
Vertical	17385.040	57.63	-2.35	55.28	68.2	-12.92	Pk
Vertical	17385.040	44.41	-2.35	42.06	54	-11.94	AV
Horizontal	6039.102	70.81	-18.93	51.88	68.2	-16.32	Pk
Horizontal	6039.102	59.94	-18.93	41.01	54	-12.99	AV
Horizontal	11590.074	60.05	-8.87	51.18	74	-22.82	Pk
Horizontal	11590.074	49.75	-8.87	40.88	54	-13.12	AV
Horizontal	17385.163	57.97	-2.35	55.62	68.2	-12.58	Pk
Horizontal	17385.163	44.47	-2.35	42.12	54	-11.88	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 is MIMO(antenna A+ antenna B) Mode.

Test Mode:	TX(5.8G) - 802.11ac-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.117	72.25	-20.24	52.01	74	-21.99	Pk
Vertical	4679.117	59.64	-20.24	39.40	54	-14.60	AV
Vertical	11550.042	63.25	-8.84	54.41	74	-19.59	Pk
Vertical	11550.042	49.87	-8.84	41.03	54	-12.97	AV
Vertical	17325.188	57.67	-2.68	54.99	68.2	-13.21	Pk
Vertical	17325.188	44.40	-2.68	41.72	54	-12.28	AV
Horizontal	4679.156	71.94	-20.24	51.70	74	-22.30	Pk
Horizontal	4679.156	59.74	-20.24	39.50	54	-14.50	AV
Horizontal	11550.042	64.06	-8.84	55.22	74	-18.78	Pk
Horizontal	11550.042	49.14	-8.84	40.30	54	-13.70	AV
Horizontal	17325.127	57.48	-2.68	54.80	68.2	-13.40	Pk
Horizontal	17325.127	44.27	-2.68	41.59	54	-12.41	AV

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

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

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

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

Test Mode is MIMO(antenna A+ antenna B) Mode.

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.

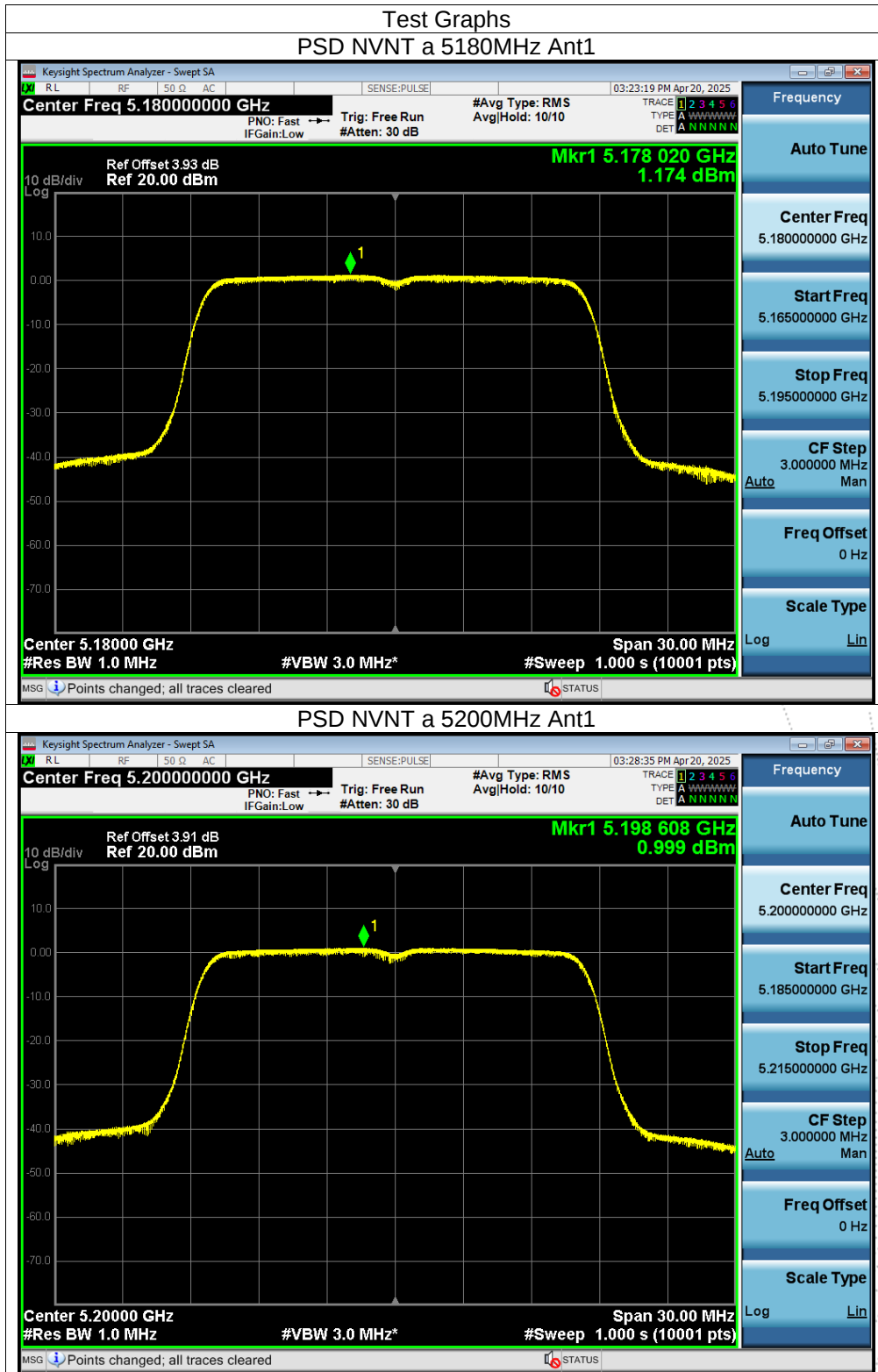
8.5 Test Result

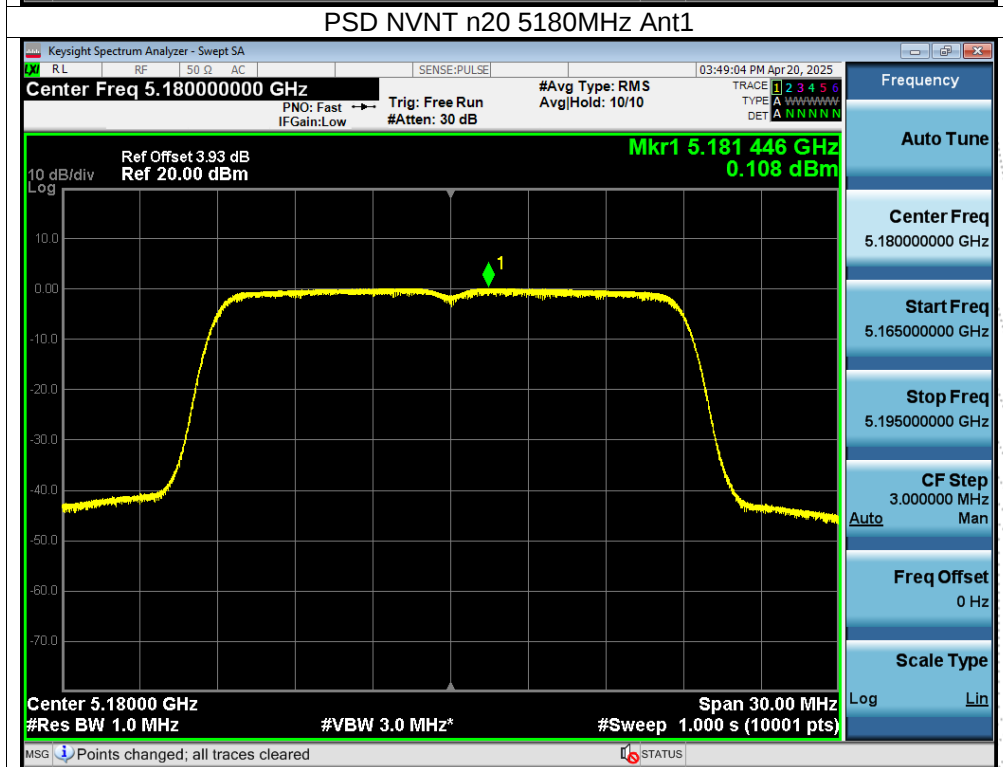
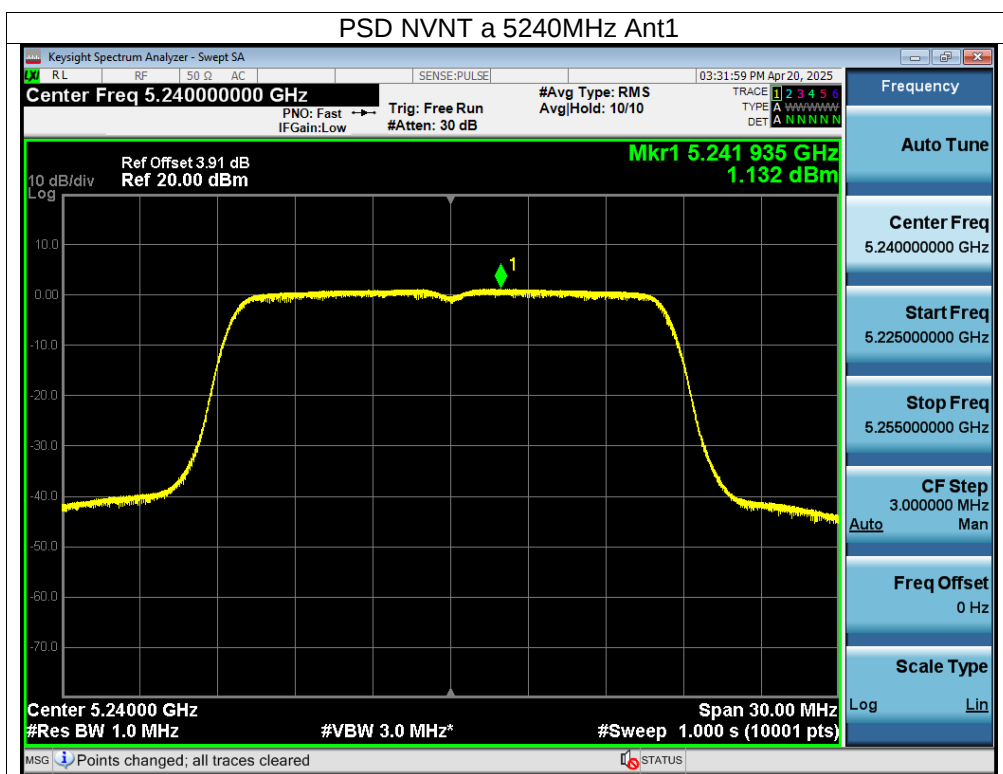
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120/60Hz
Test Mode:	(5180-5240MHz)		

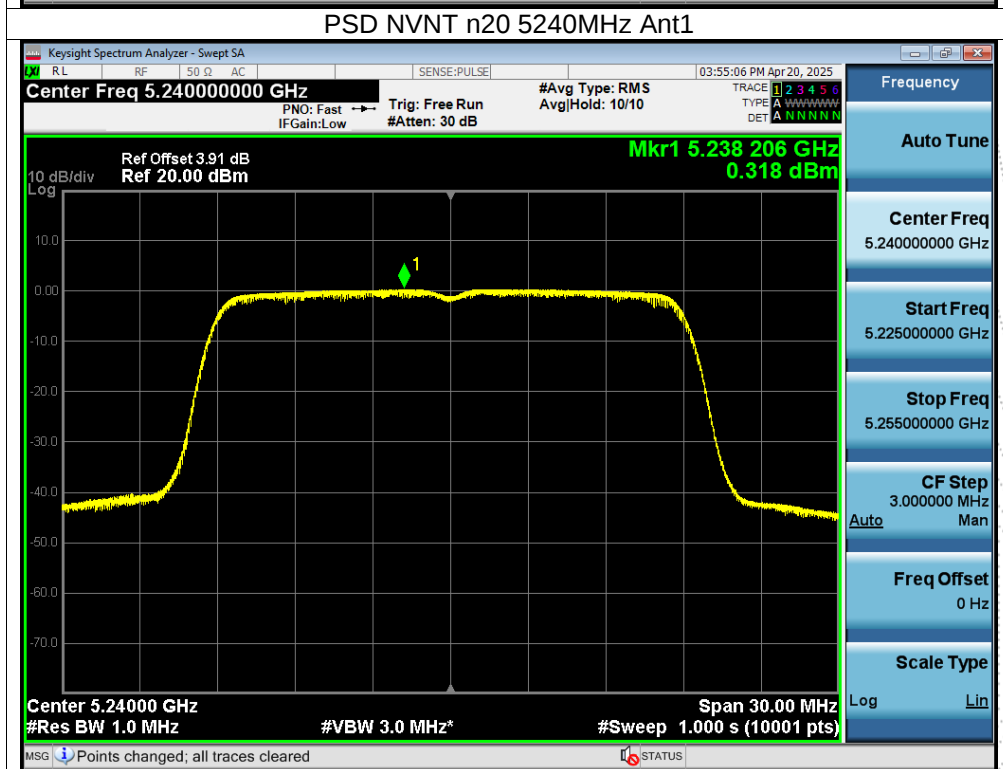
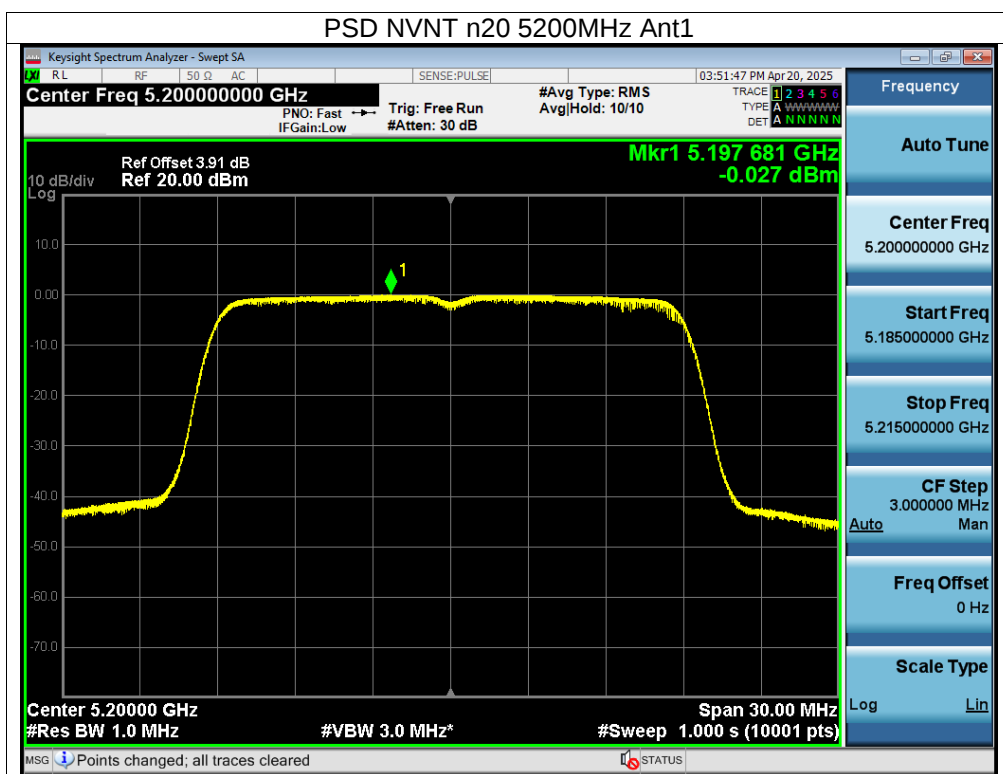
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5180	1.17	1.28	/	11	Pass
NVNT	a	5200	1	1.24	/	11	Pass
NVNT	a	5240	1.13	1.37	/	11	Pass
NVNT	n20	5180	0.11	0.09	3.11	9.57	Pass
NVNT	n20	5200	-0.03	0.14	3.07	9.57	Pass
NVNT	n20	5240	0.32	0.23	3.29	9.57	Pass
NVNT	n40	5190	-2.23	-2.51	0.64	9.57	Pass
NVNT	n40	5230	0.19	-0.01	3.10	9.57	Pass
NVNT	ac20	5180	0.13	0.21	3.18	9.57	Pass
NVNT	ac20	5200	0.04	0.15	3.11	9.57	Pass
NVNT	ac20	5240	0.37	0.46	3.43	9.57	Pass
NVNT	ac40	5190	-2.38	-2.3	0.67	9.57	Pass
NVNT	ac40	5230	-2.44	-2.44	0.57	9.57	Pass
NVNT	ac80	5210	-6.38	-6.5	-3.43	9.57	Pass

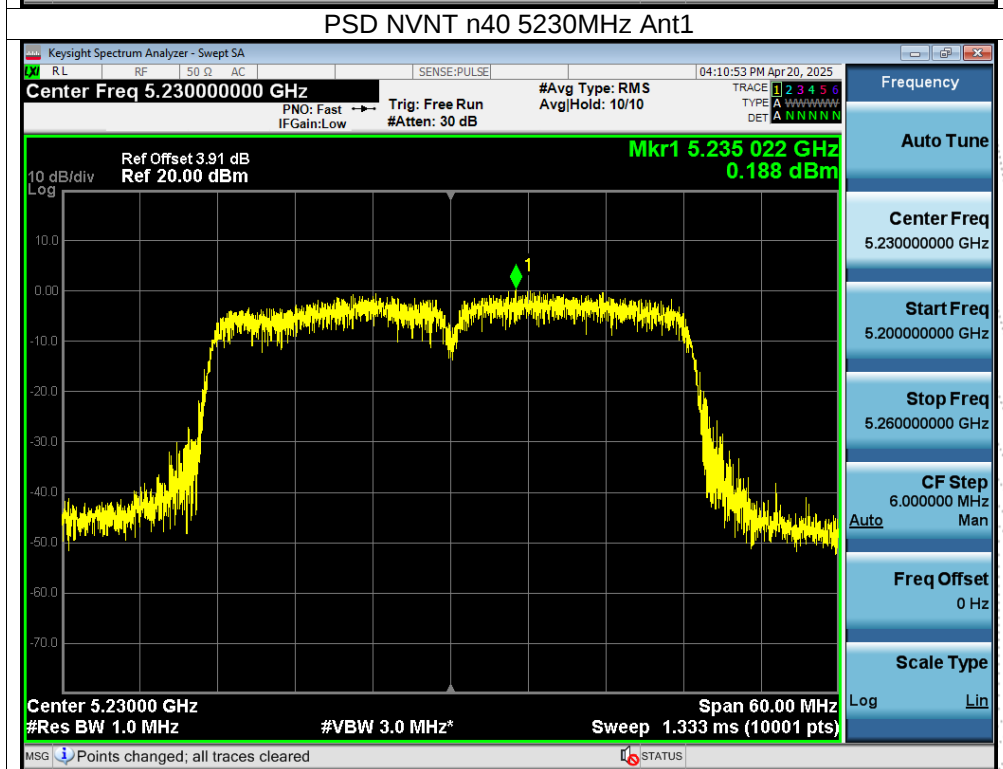
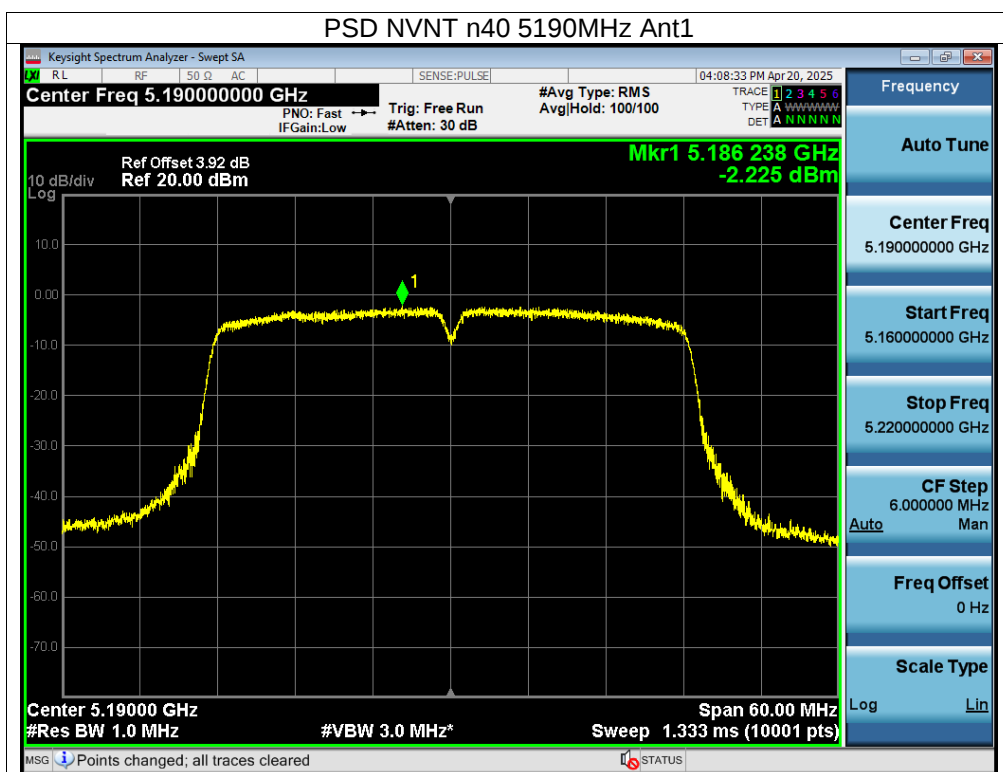
Total: antenna A+ antenna B

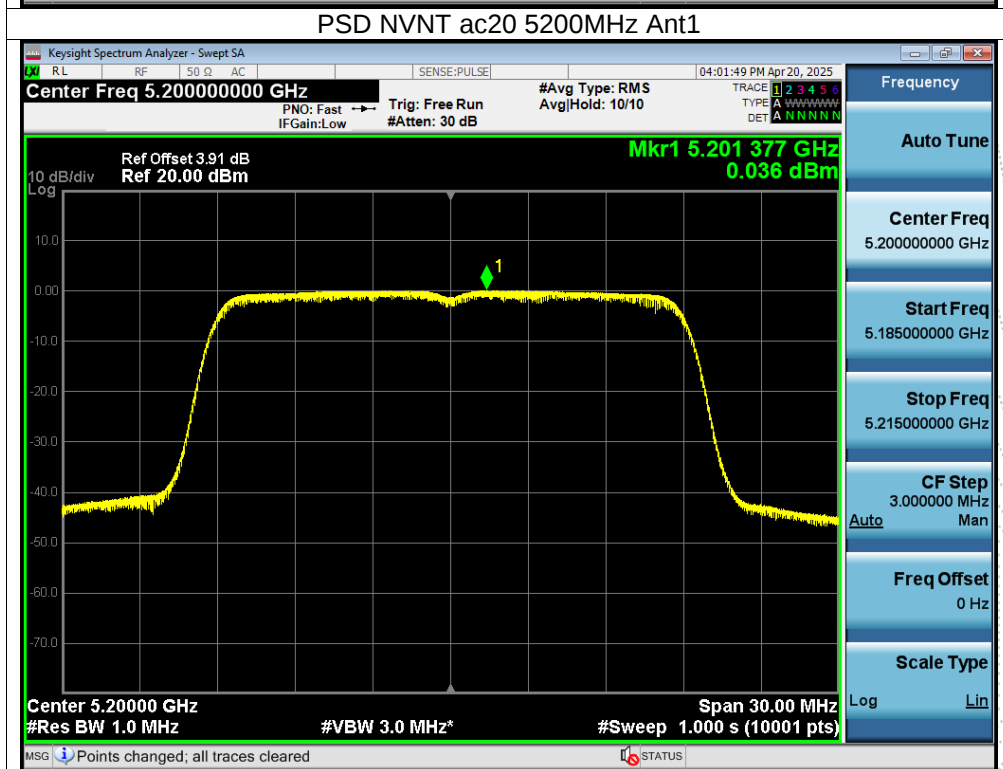
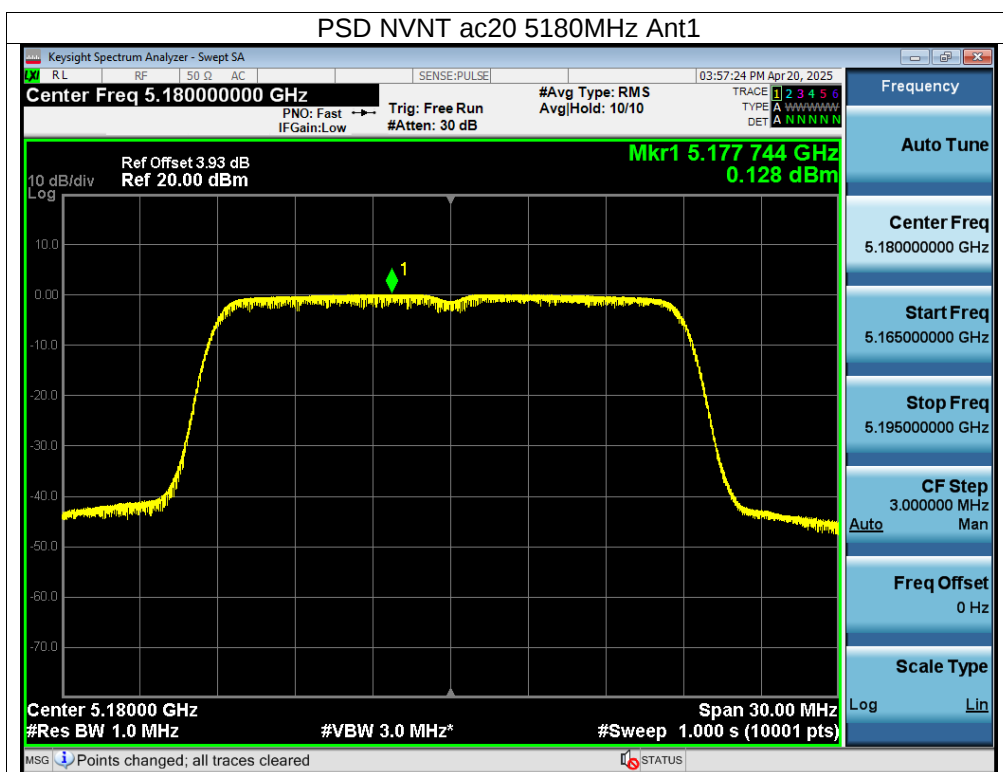
Ant A:

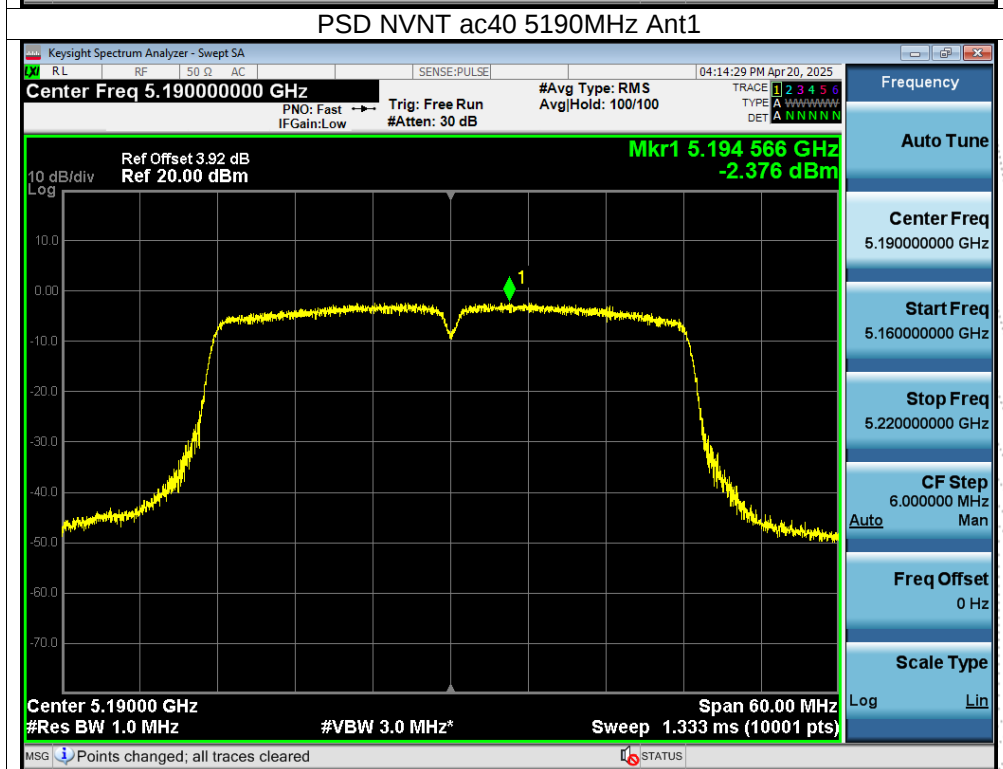
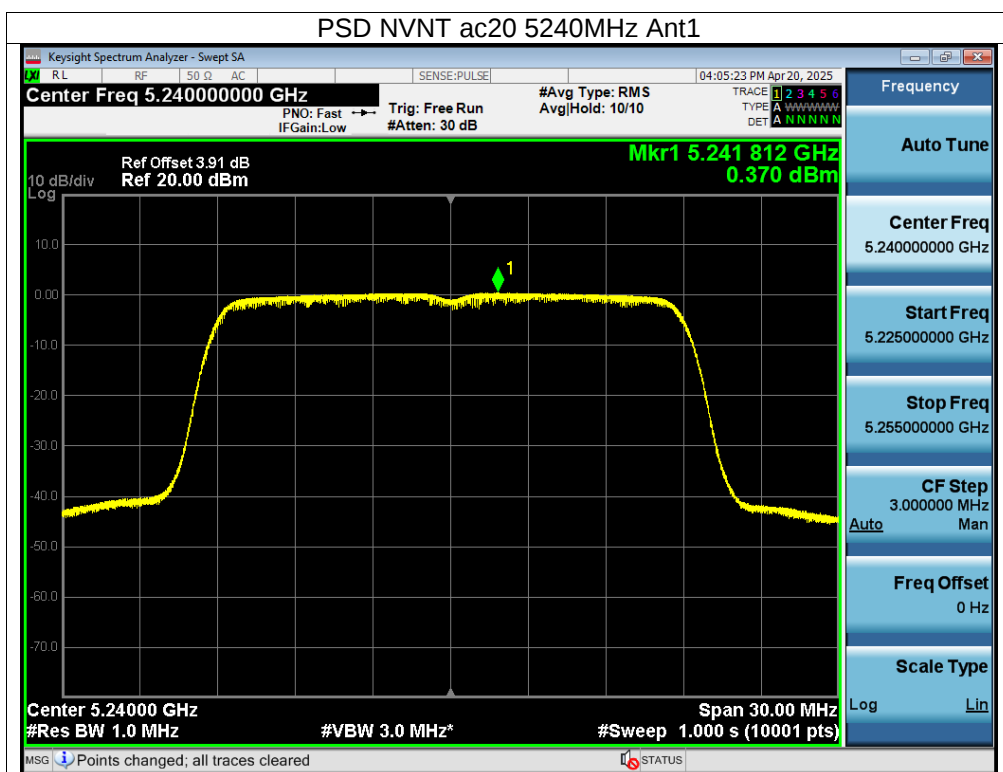


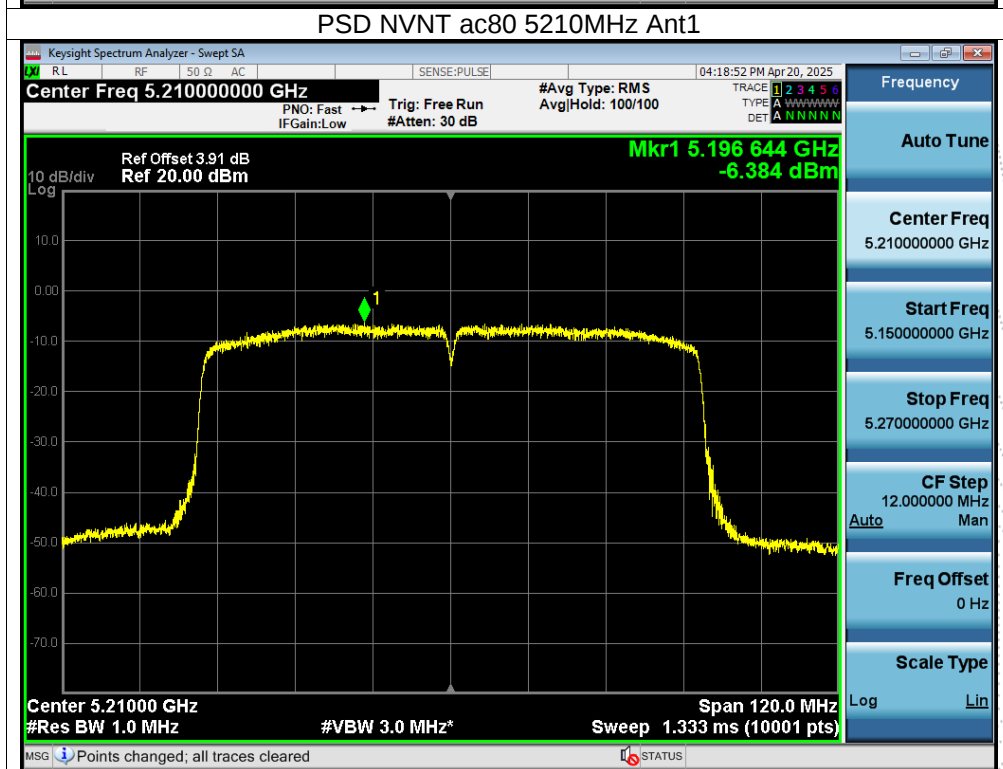
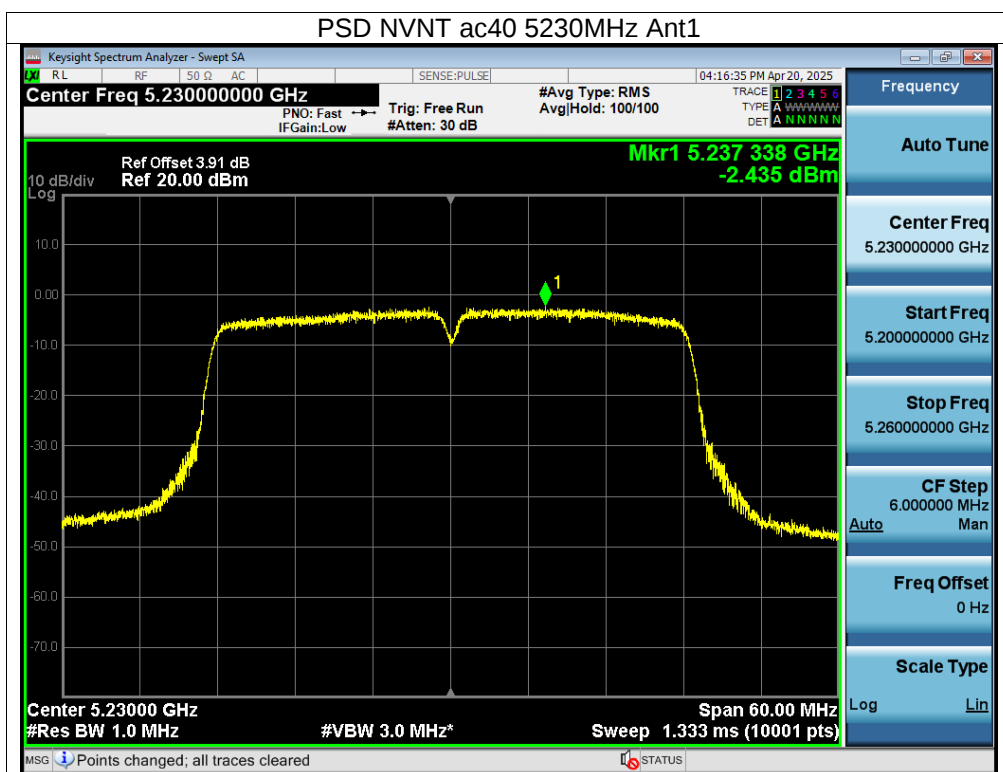














Ant B:

