

TEST REPORT

Report No.: BCTC2304222109-2E

Applicant: REOLINK INNOVATION LIMITED

Product Name: WiFi IP Camera

Model/Type
reference: FE-W

Tested Date: 2023-04-04 to 2023-04-18

Issued Date: 2023-04-19

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AYHE-2212A

Product Name: WiFi IP Camera

Trademark: 

Model/Type Ref.: FE-W

Prepared For: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET
MONG KOK KL HONG KONG

Manufacturer: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET
MONG KOK KL HONG KONG

Factory: Shenzhen Reolink Technology Co., Ltd.

Address: 2-4th Floor, Building 2, YuanLing Industrial Park, ShangWu, Shiyan Street, Bao'an
District, 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: 2023-04-04

Sample tested Date: 2023-04-04 to 2023-04-18

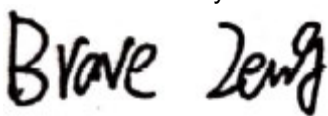
Issue Date: 2023-04-19

Report No.: BCTC2304222109-2E

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

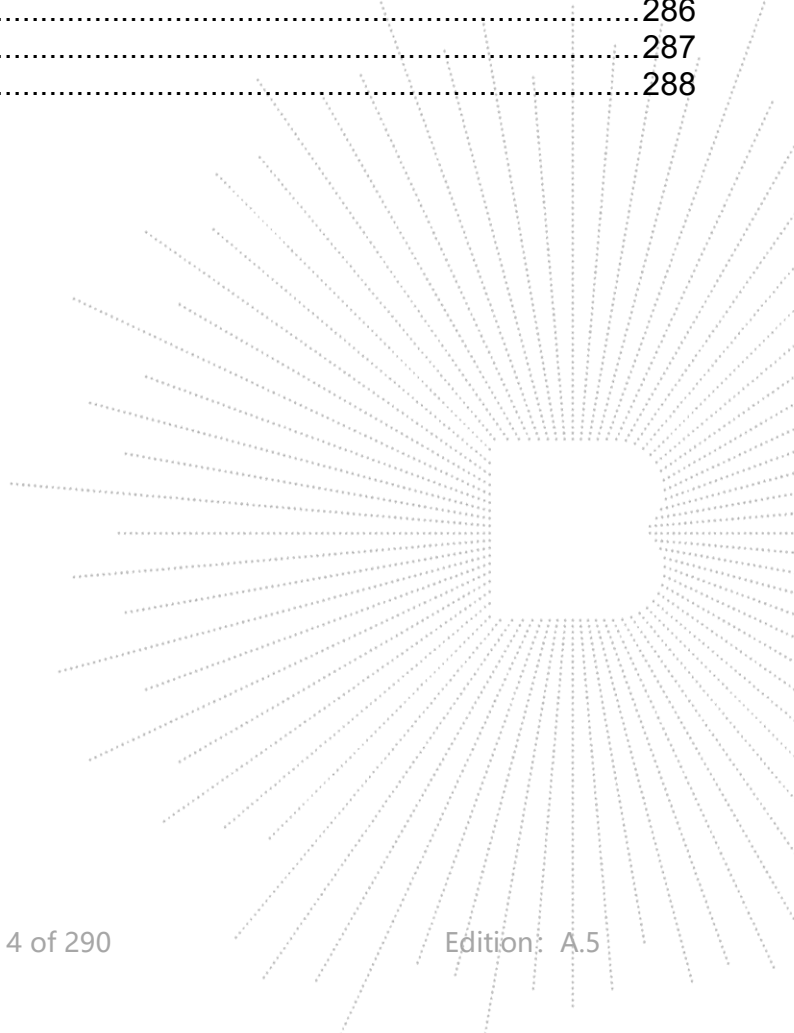
The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information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

Table Of Content

Test Report Declaration	Page
1. Version	5
2. Test Summary	6
3. Measurement Uncertainty	7
4. Product Information And Test Setup	8
4.1 Product Information	8
4.2 Test Setup Configuration	9
4.3 Support Equipment	9
4.4 Channel List	10
4.5 Test Mode	11
4.6 Table Of Parameters Of Text Software Setting	11
4.7 Antenna	12
5. Test Facility And Test Instrument Used	13
5.1 Test Facility	13
5.2 Test Instrument Used	13
6. Conducted Emissions	15
6.1 Block Diagram Of Test Setup	15
6.2 Limit	15
6.3 Test Procedure	15
6.4 EUT Operating Conditions	15
6.5 Test Result	16
7. Radiated Emissions	18
7.1 Block Diagram Of Test Setup	18
7.2 Limit	19
7.3 Test Procedure	20
7.4 EUT Operating Conditions	21
7.5 Test Result	21
8. Power Spectral Density Test	48
8.1 Block Diagram Of Test Setup	48
8.2 Limit	48
8.3 Test Procedure	49
8.4 EUT Operating Conditions	49
8.5 Test Result	50
9. 26dB & 6dB & 99% Emission Bandwidth	83
9.1 Block Diagram Of Test Setup	83
9.2 Limit	83
9.3 Test Procedure	83
9.4 EUT Operating Conditions	84
9.5 Test Result	85
10. Maximum Conducted Output Power	147
10.1 Block Diagram Of Test Setup	147
10.2 Limit	147
10.3 Test Procedure	147
10.4 EUT Operating Conditions	148

10.5	Test Result.....	149
11.	Out Of Band Emissions	153
11.1	Block Diagram Of Test Setup.....	153
11.2	Limit	153
11.3	Test Procedure	153
11.4	EUT Operating Conditions	153
11.5	Test Result.....	154
12.	Spurious RF Conducted Emissions.....	177
12.1	Block Diagram Of Test Setup.....	177
12.2	Limit	177
12.3	Test Procedure	177
12.4	Test Result.....	177
13.	Frequency Stability Measurement	207
13.1	Block Diagram Of Test Setup.....	207
13.2	Limit	207
13.3	Test Procedure	207
13.4	Test Result.....	208
14.	Duty Cycle Of Test Signal	220
14.1	Standard Requirement	220
14.2	Formula	220
14.3	Test Procedure	220
14.4	Test Result.....	220
15.	Antenna Requirement	286
15.1	Limit	286
15.2	Test Result.....	286
16.	EUT Photographs	287
17.	EUT Test Setup Photographs.....	288

(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2304222109-2E	2023-04-19	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 15.1049	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

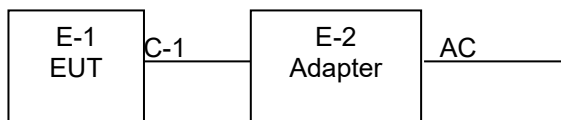
4.1 Product Information

Model/Type Ref.:	FE-W
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	802.11a/n (20MHz channel bandwidth) 802.11n (40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth) 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;
Operation Frequency:	5500-5700MHz for 802.11a/n/ac(HT20); 5510-5670MHz for 802.11n/ac(HT40); 5530-5610MHz 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
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
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac
Antenna installation:	Internal antenna*2
Antenna Gain:	5.1G: Antenna A & B: 6.96 dBi 5.3G: Antenna A & B: 6.96 dBi 5.6G: Antenna A & B: 6.96 dBi 5.8G: Antenna A & B: 6.96 dBi
Ratings:	AC 120V/60Hz
Adapter Information:	MODEL: ADS-12AM-12 12012EPCU INPUT: 100-240V~50/60Hz Max.0.3A OUTPUT: DC 12.0V 1.0A

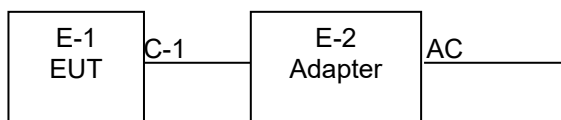
4.2 Test Setup Configuration

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	WiFi IP Camera		FE-W	N/A	EUT
E-2	N/A	N/A	N/A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	3M	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

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		
(U-NII-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
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 (MHz)
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	120	5600
	124	5620	128	5640
	132	5660	136	5680
	140	5700		
40MHz	102	5510	110	5550
	118	5590	126	5630
	134	5670	142	5710
80MHz	106	5530	122	5610
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5775	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 118/CH134 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/ CH 58/ CH 106/ CH 122/ CH 155
Mode 4	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

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

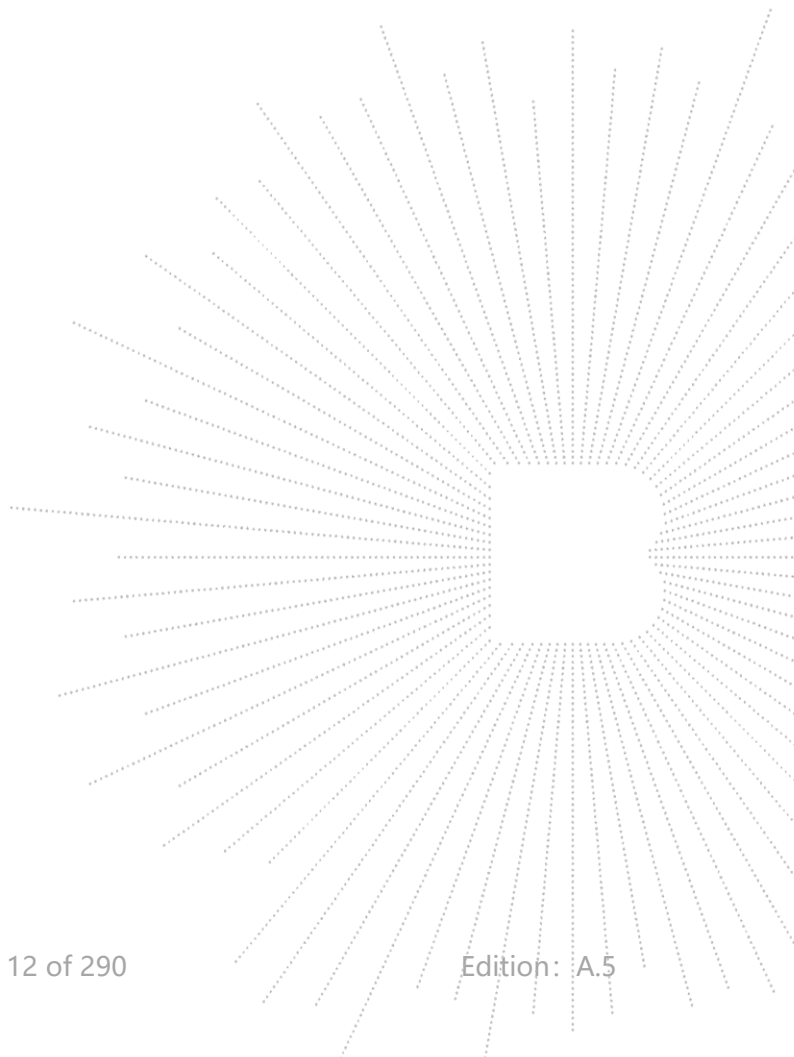
4.7 Antenna

5.1G&5.3G&5.6G&5.8G

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	Internal antenna	6.96	N/A
B	N/A	N/A	Internal antenna	6.96	N/A

EUT has two Internal antenna with Max gain GANT 6.96dBi on every antenna, CDD device with one spatial streams, also can operat with one spatial streams according to KDB662911 D01 v02r01, Directional gain= GANT + Array Gain, where Array Gain is as follows.

- 1)For power spectral density(PSD) measurements,
 $\text{Array Gain} = 10\log(\text{NANT}/\text{NSS})\text{dB} = 10\log(2/1) = 3.01 \text{ dBi}$,
 So the directional gain for PSD is 9.97 dBi
- 2)For power measurements,
 The Array gain=0 for $\text{NANT} \leq 4$,
 So the directional gain for Power measurements is 6.96dBi



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

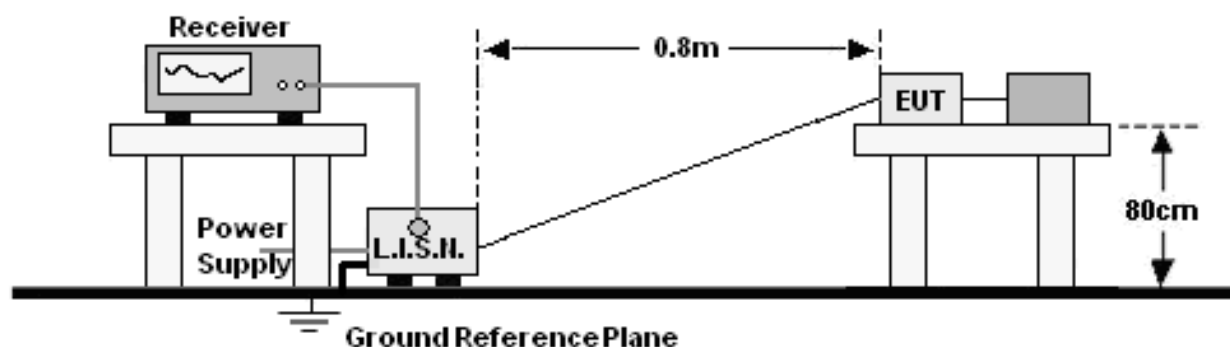
Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Radio frequency control box	MAIWEI	MW100-RFC B	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 26, 2022	May 25, 2023
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
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

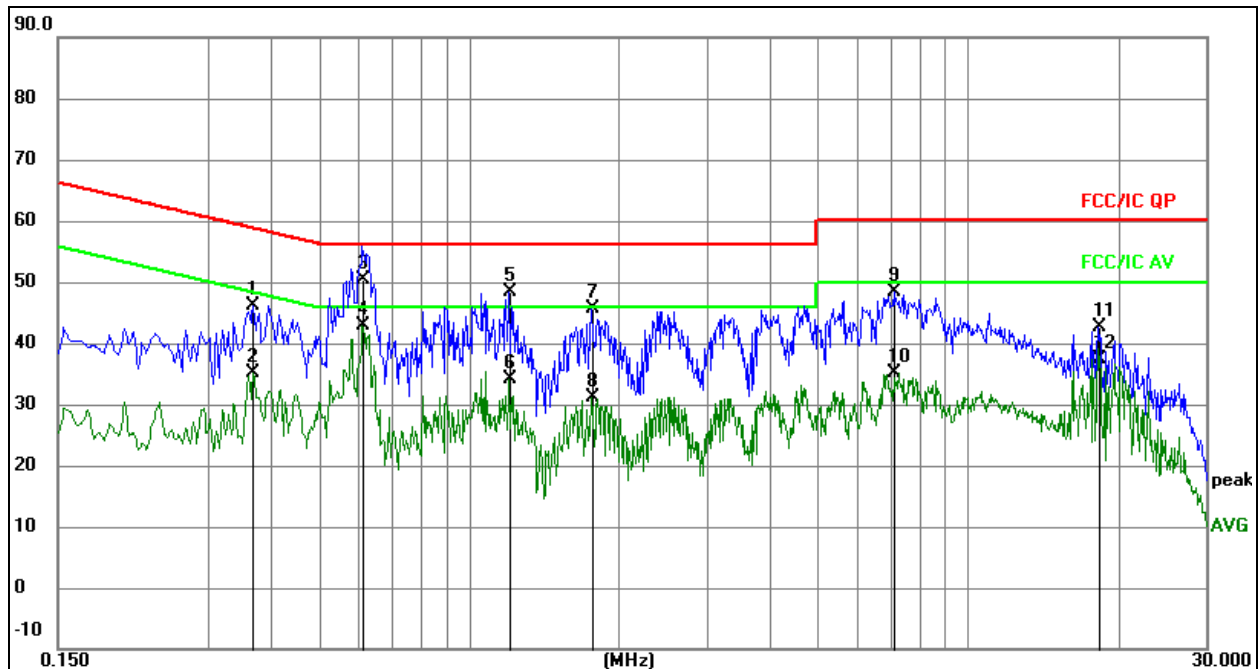
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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 :	AC 120V/60Hz
Test Mode:	Mode 1	Polarization :	L

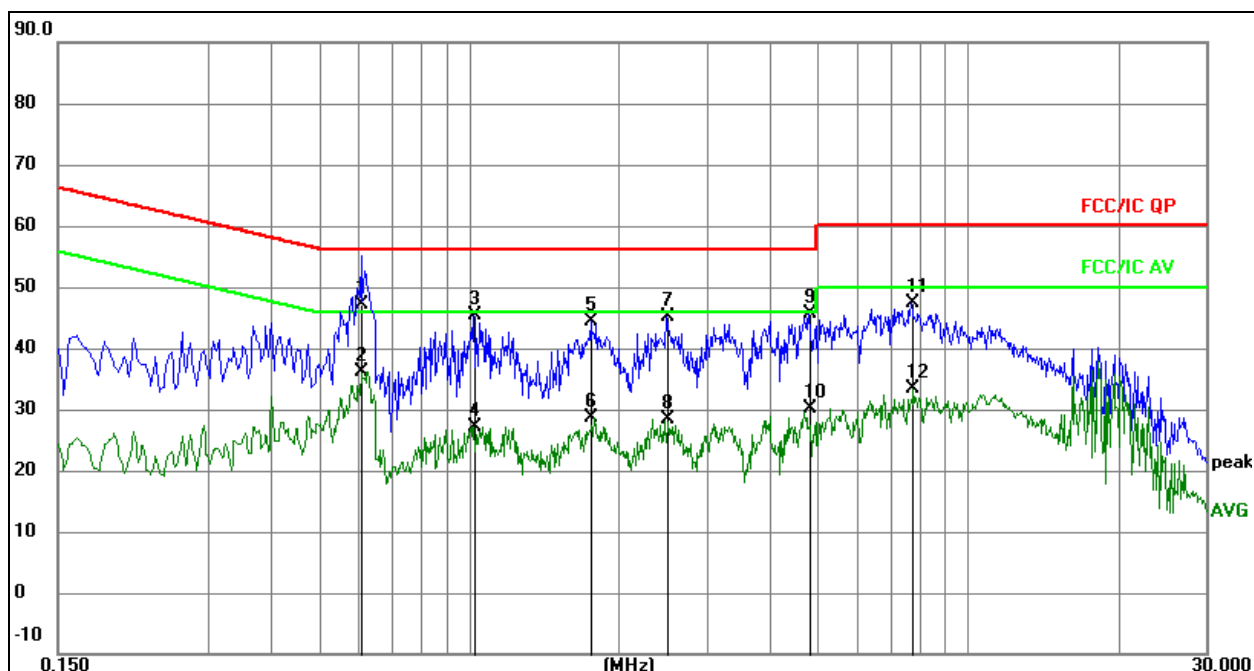


Remark:

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. Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.3692	26.46	19.75	46.21	58.52	-12.31	QP
2	0.3692	15.39	19.75	35.14	48.52	-13.38	AVG
3	0.6130	30.57	19.73	50.30	56.00	-5.70	QP
4 *	0.6130	23.13	19.73	42.86	46.00	-3.14	AVG
5	1.2075	28.48	19.78	48.26	56.00	-7.74	QP
6	1.2075	14.34	19.78	34.12	46.00	-11.88	AVG
7	1.7700	25.67	19.85	45.52	56.00	-10.48	QP
8	1.7700	11.18	19.85	31.03	46.00	-14.97	AVG
9	7.1025	28.10	20.18	48.28	60.00	-11.72	QP
10	7.1025	15.05	20.18	35.23	50.00	-14.77	AVG
11	18.2445	22.30	20.43	42.73	60.00	-17.27	QP
12	18.2445	17.03	20.43	37.46	50.00	-12.54	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Mode 1	Polarization :	N



Remark:

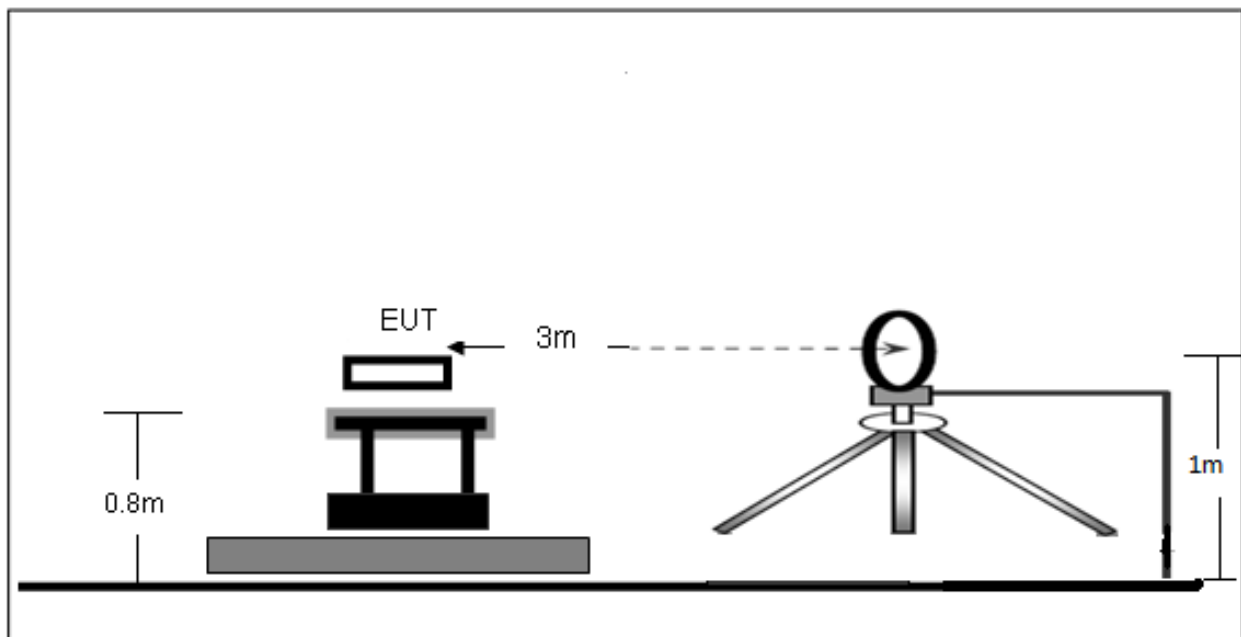
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.6080	27.50	19.73	47.23	56.00	-8.77	QP
2		0.6080	16.36	19.73	36.09	46.00	-9.91	AVG
3		1.0230	25.52	19.76	45.28	56.00	-10.72	QP
4		1.0230	7.48	19.76	27.24	46.00	-18.76	AVG
5		1.7565	24.46	19.85	44.31	56.00	-11.69	QP
6		1.7565	8.66	19.85	28.51	46.00	-17.49	AVG
7		2.4900	25.20	19.93	45.13	56.00	-10.87	QP
8		2.4900	8.53	19.93	28.46	46.00	-17.54	AVG
9		4.8210	25.55	20.12	45.67	56.00	-10.33	QP
10		4.8210	10.11	20.12	30.23	46.00	-15.77	AVG
11		7.6920	27.18	20.20	47.38	60.00	-12.62	QP
12		7.6920	13.12	20.20	33.32	50.00	-16.68	AVG

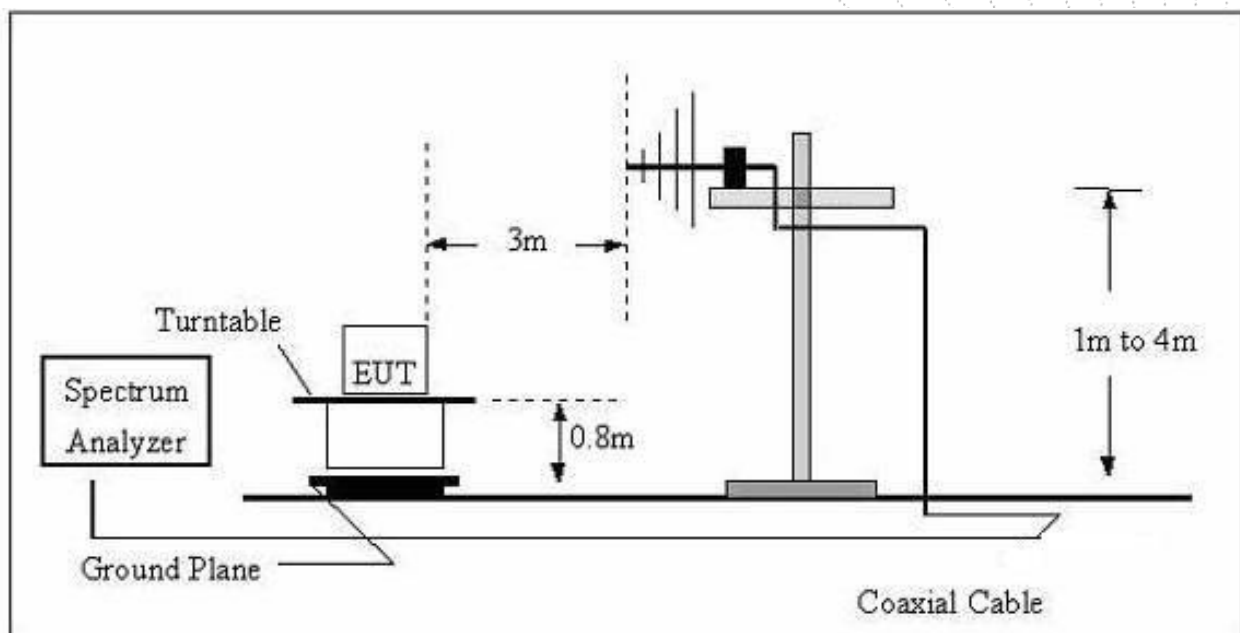
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

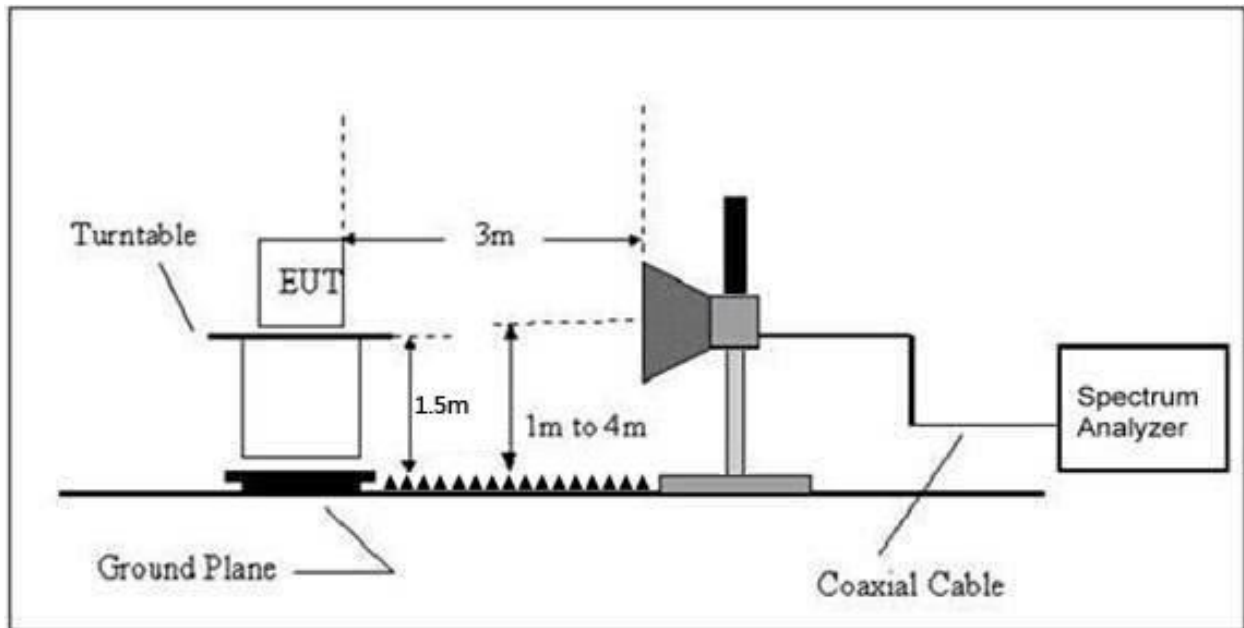
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	26°C	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Mode 1	Polarization:	--

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

Note:

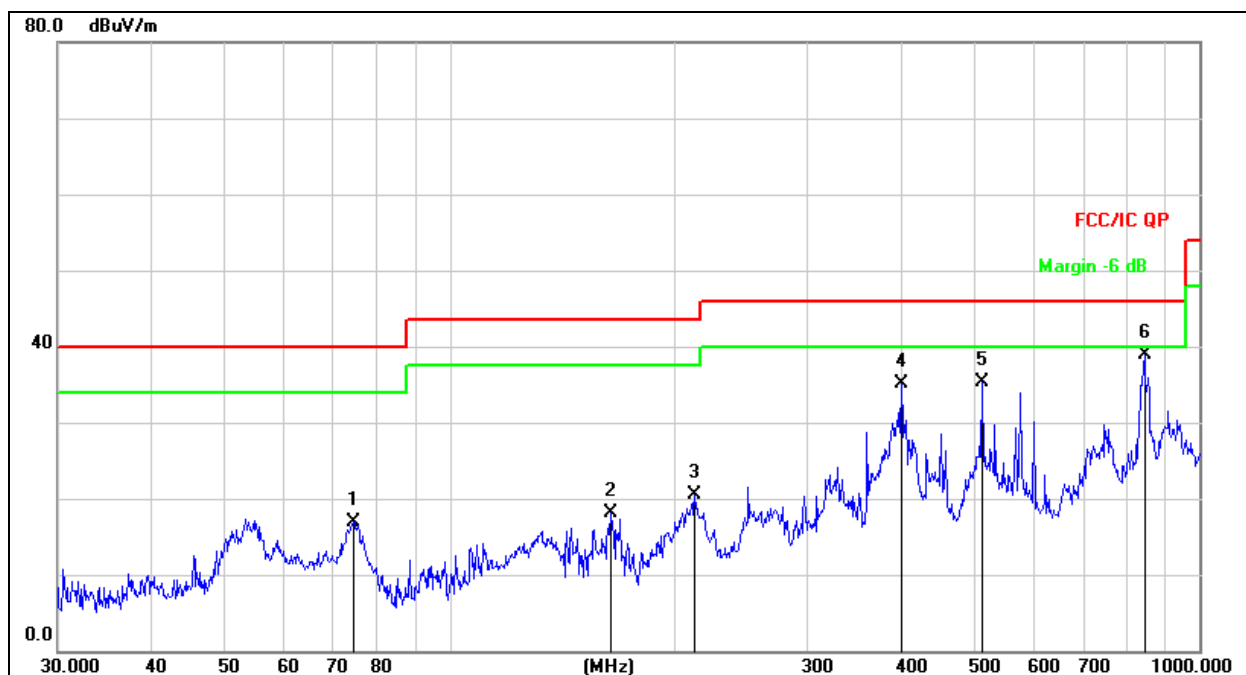
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Mode 1	Polarization :	Horizontal

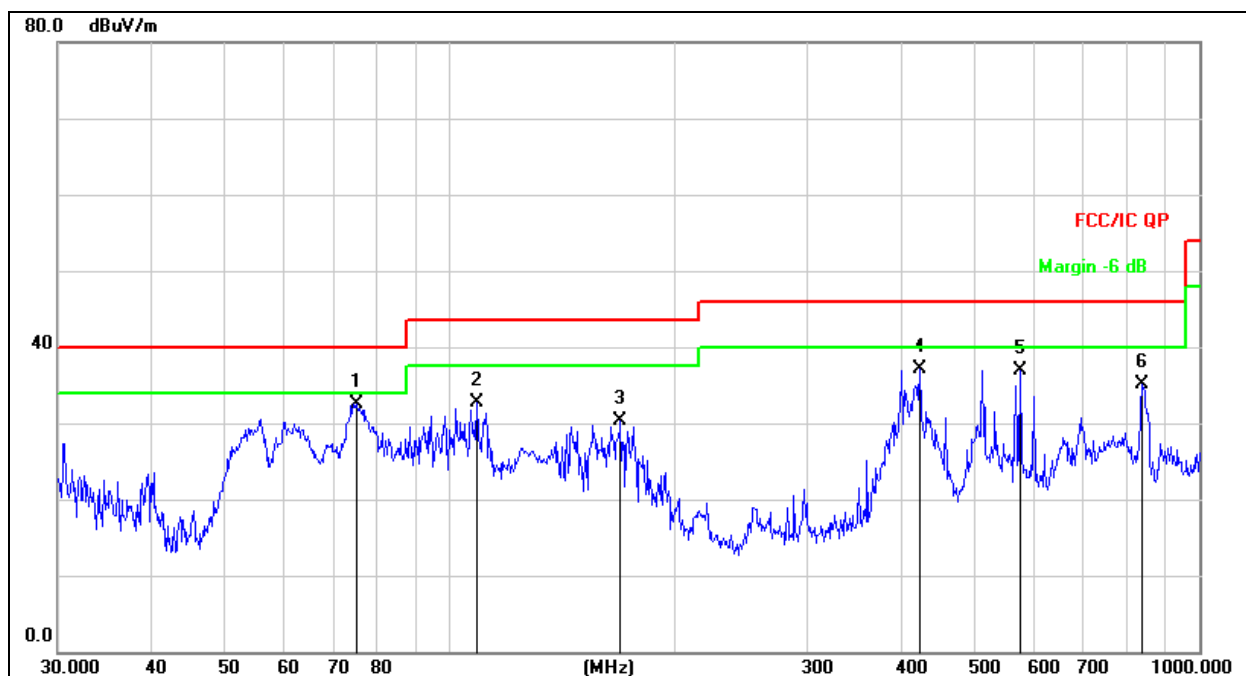


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		74.3955	37.61	-20.66	16.95	40.00	-23.05	QP
2		163.7550	38.21	-20.04	18.17	43.50	-25.33	QP
3		212.2695	37.57	-16.99	20.58	43.50	-22.92	QP
4		400.4319	47.25	-12.20	35.05	46.00	-10.95	QP
5		513.6331	45.37	-10.05	35.32	46.00	-10.68	QP
6	*	845.0878	44.09	-5.19	38.90	46.00	-7.10	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Mode 1	Polarization :	Vertical



Remark:

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

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1 *	75.1822	53.27	-20.78	32.49	40.00	-7.51	QP
2	108.6470	51.02	-18.33	32.69	43.50	-10.81	QP
3	169.0054	49.93	-19.65	30.28	43.50	-13.22	QP
4	423.5403	48.91	-11.87	37.04	46.00	-8.96	QP
5	576.6443	45.75	-8.92	36.83	46.00	-9.17	QP
6	839.1818	40.30	-5.24	35.06	46.00	-10.94	QP

Between 1GHz – 40GHz

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

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.162	62.39	5.94	35.40	44.00	59.73	68.2	-8.47	PK
V	4434.162	43.89	5.94	35.40	44.00	41.23	54	-12.77	AV
V	10360.013	60.54	8.46	39.75	44.50	64.25	68.2	-3.95	PK
V	10360.013	43.73	8.46	39.75	44.50	47.44	54	-6.56	AV
V	15540.032	60.88	10.12	38.80	44.10	65.70	74	-8.30	PK
V	15540.032	43.36	10.12	38.80	42.70	49.58	54	-4.42	AV
H	4434.075	62.52	5.94	35.18	44.00	59.64	68.2	-8.56	PK
H	4434.075	43.70	5.94	35.18	44.00	40.82	54	-13.18	AV
H	10360.049	52.04	8.46	38.71	44.50	54.71	68.2	-13.49	PK
H	10360.049	40.16	8.46	38.71	44.50	42.83	54	-11.17	AV
H	15540.023	51.16	10.12	38.38	44.10	55.56	74	-18.44	PK
H	15540.023	40.35	10.12	38.38	44.10	44.75	54	-9.25	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.012	60.00	6.48	36.35	44.05	58.78	74	-15.22	PK
V	4592.012	43.01	6.48	36.35	44.05	41.79	54	-12.21	AV
V	10400.004	61.24	8.47	37.88	44.51	63.08	68.2	-5.12	PK
V	10400.004	43.48	8.47	37.88	44.51	45.32	54	-8.68	AV
V	15600.090	62.41	10.12	38.80	44.10	67.23	74	-6.77	PK
V	15600.090	43.96	10.12	38.80	42.70	50.18	54	-3.82	AV
H	4592.055	64.77	6.48	36.37	44.05	63.57	74	-10.43	PK
H	4592.055	43.08	6.48	36.37	44.05	41.88	54	-12.12	AV
H	10400.178	52.82	8.47	38.64	44.50	55.43	68.2	-12.77	PK
H	10400.178	43.02	8.47	38.64	44.50	45.63	54	-8.37	AV
H	15600.052	52.84	10.12	38.38	44.10	57.24	74	-16.76	PK
H	15600.052	44.93	10.12	38.38	44.10	49.33	54	-4.67	AV
High Channel (5240 MHz)-Above 1G									
V	4739.136	60.44	7.10	37.24	43.50	61.28	74	-12.72	PK
V	4739.136	43.95	7.10	37.24	43.50	44.79	54	-9.21	AV
V	10480.081	62.20	8.46	37.68	44.50	63.84	68.2	-4.36	PK
V	10480.081	43.36	8.46	37.68	44.50	45.00	54	-9.00	AV
V	15720.076	64.51	10.12	38.80	44.10	69.33	74	-4.67	PK
V	15720.076	43.19	10.12	38.80	42.70	49.41	54	-4.59	AV
H	4739.009	62.56	7.10	37.24	43.50	63.40	74	-10.60	PK
H	4739.009	43.73	7.10	37.24	43.50	44.57	54	-9.43	AV
H	10480.088	54.72	8.46	38.57	44.50	57.25	68.2	-10.95	PK
H	10480.088	41.20	8.46	38.57	44.50	43.73	54	-10.27	AV
H	15720.026	52.97	10.12	38.38	44.10	57.37	74	-16.63	PK
H	15720.026	41.34	10.12	38.38	44.10	45.74	54	-8.26	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.

The worst case is Antenna A.

Test Mode :	TX(5.1G) - 802.11n-HT20
-------------	-------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.177	62.36	5.94	35.40	44.00	59.70	68.2	-8.50	PK
V	4434.177	43.38	5.94	35.40	44.00	40.72	54	-13.28	AV
V	10360.160	60.93	8.46	39.75	44.50	64.64	68.2	-3.56	PK
V	10360.160	43.66	8.46	39.75	44.50	47.37	54	-6.63	AV
V	15540.144	60.61	10.12	38.80	44.10	65.43	74	-8.57	PK
V	15540.144	43.94	10.12	38.80	42.70	50.16	54	-3.84	AV
H	4434.124	63.48	5.94	35.18	44.00	60.60	68.2	-7.60	PK
H	4434.124	43.22	5.94	35.18	44.00	40.34	54	-13.66	AV
H	10360.114	51.80	8.46	38.71	44.50	54.47	68.2	-13.73	PK
H	10360.114	44.44	8.46	38.71	44.50	47.11	54	-6.89	AV
H	15540.148	53.76	10.12	38.38	44.10	58.16	74	-15.84	PK
H	15540.148	43.78	10.12	38.38	44.10	48.18	54	-5.82	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.007	61.57	6.48	36.35	44.05	60.35	74	-13.65	PK
V	4592.007	43.53	6.48	36.35	44.05	42.31	54	-11.69	AV
V	10400.055	64.51	8.47	37.88	44.51	66.35	68.2	-1.85	PK
V	10400.055	43.80	8.47	37.88	44.51	45.64	54	-8.36	AV
V	15600.177	60.79	10.12	38.80	44.10	65.61	74	-8.39	PK
V	15600.177	43.75	10.12	38.80	42.70	49.97	54	-4.03	AV
H	4592.117	63.19	6.48	36.37	44.05	61.99	74	-12.01	PK
H	4592.117	43.17	6.48	36.37	44.05	41.97	54	-12.03	AV
H	10400.044	52.84	8.47	38.64	44.50	55.45	68.2	-12.75	PK
H	10400.044	43.75	8.47	38.64	44.50	46.36	54	-7.64	AV
H	15600.026	53.55	10.12	38.38	44.10	57.95	74	-16.05	PK
H	15600.026	42.63	10.12	38.38	44.10	47.03	54	-6.97	AV
High Channel (5240 MHz)-Above 1G									
V	4739.073	60.45	7.10	37.24	43.50	61.29	74	-12.71	PK
V	4739.073	43.48	7.10	37.24	43.50	44.32	54	-9.68	AV
V	10480.190	62.26	8.46	37.68	44.50	63.90	68.2	-4.30	PK
V	10480.190	43.10	8.46	37.68	44.50	44.74	54	-9.26	AV
V	15720.068	63.11	10.12	38.80	44.10	67.93	74	-6.07	PK
V	15720.068	43.03	10.12	38.80	42.70	49.25	54	-4.75	AV
H	4739.092	60.14	7.10	37.24	43.50	60.98	74	-13.02	PK
H	4739.092	43.45	7.10	37.24	43.50	44.29	54	-9.71	AV
H	10480.051	52.96	8.46	38.57	44.50	55.49	68.2	-12.71	PK
H	10480.051	41.08	8.46	38.57	44.50	43.61	54	-10.39	AV
H	15720.002	53.70	10.12	38.38	44.10	58.10	74	-15.90	PK
H	15720.002	44.40	10.12	38.38	44.10	48.80	54	-5.20	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 Mode.

Test Mode :	TX(5.1G) - 802.11n-HT40
-------------	-------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.199	63.39	5.94	35.40	44.00	60.73	68.2	-7.47	PK
V	4434.199	43.49	5.94	35.40	44.00	40.83	54	-13.17	AV
V	10380.074	63.90	8.46	39.75	44.50	67.61	68.2	-0.59	PK
V	10380.074	43.21	8.46	39.75	44.50	46.92	54	-7.08	AV
V	15570.032	61.33	10.12	38.80	44.10	66.15	74	-7.85	PK
V	15570.032	43.19	10.12	38.80	42.70	49.41	54	-4.59	AV
H	4434.132	60.87	5.94	35.18	44.00	57.99	74	-16.01	PK
H	4434.132	43.63	5.94	35.18	44.00	40.75	54	-13.25	AV
H	10380.128	53.39	8.46	38.71	44.50	56.06	68.2	-12.14	PK
H	10380.128	42.19	8.46	38.71	44.50	44.86	54	-9.14	AV
H	15570.182	53.47	10.12	38.38	44.10	57.87	74	-16.13	PK
H	15570.182	42.46	10.12	38.38	44.10	46.86	54	-7.14	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.132	63.65	6.48	36.35	44.05	62.43	68.2	-5.77	PK
V	4739.132	43.90	6.48	36.35	44.05	42.68	54	-11.32	AV
V	10460.011	63.75	8.47	37.88	44.51	65.59	68.2	-2.61	PK
V	10460.011	43.77	8.47	37.88	44.51	45.61	54	-8.39	AV
V	15690.183	60.86	10.12	38.80	44.10	65.68	74	-8.32	PK
V	15690.183	43.83	10.12	38.80	42.70	50.05	54	-3.95	AV
H	4739.101	64.67	6.48	36.37	44.05	63.47	68.2	-4.73	PK
H	4739.101	43.76	6.48	36.37	44.05	42.56	54	-11.44	AV
H	10460.187	53.85	8.47	38.64	44.50	56.46	68.2	-11.74	PK
H	10460.187	42.48	8.47	38.64	44.50	45.09	54	-8.91	AV
H	15690.049	52.54	10.12	38.38	44.10	56.94	74	-17.06	PK
H	15690.049	43.14	10.12	38.38	44.10	47.54	54	-6.46	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 Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT20
------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.062	62.24	5.94	35.40	44.00	59.58	68.2	-8.62	PK
V	4434.062	43.81	5.94	35.40	44.00	41.15	54	-12.85	AV
V	10360.024	62.46	8.46	39.75	44.50	66.17	68.2	-2.03	PK
V	10360.024	43.45	8.46	39.75	44.50	47.16	54	-6.84	AV
V	15540.071	62.40	10.12	38.80	44.10	67.22	74	-6.78	PK
V	15540.071	43.95	10.12	38.80	42.70	50.17	54	-3.83	AV
H	4434.025	60.69	5.94	35.18	44.00	57.81	68.2	-10.39	PK
H	4434.025	43.62	5.94	35.18	44.00	40.74	54	-13.26	AV
H	10360.193	50.12	8.46	38.71	44.50	52.79	68.2	-15.41	PK
H	10360.193	44.15	8.46	38.71	44.50	46.82	54	-7.18	AV
H	15540.047	52.94	10.12	38.38	44.10	57.34	74	-16.66	PK
H	15540.047	42.97	10.12	38.38	44.10	47.37	54	-6.63	AV
Middle Channel (5200 MHz)-Above 1G									
V	4592.186	61.41	6.48	36.35	44.05	60.19	74	-13.81	PK
V	4592.186	43.73	6.48	36.35	44.05	42.51	54	-11.49	AV
V	10400.187	62.66	8.47	37.88	44.51	64.50	68.2	-3.70	PK
V	10400.187	43.96	8.47	37.88	44.51	45.80	54	-8.20	AV
V	15600.130	64.62	10.12	38.80	44.10	69.44	74	-4.56	PK
V	15600.130	43.75	10.12	38.80	42.70	49.97	54	-4.03	AV
H	4592.008	61.60	6.48	36.37	44.05	60.40	74	-13.60	PK
H	4592.008	43.77	6.48	36.37	44.05	42.57	54	-11.43	AV
H	10400.039	53.25	8.47	38.64	44.50	55.86	68.2	-12.34	PK
H	10400.039	40.29	8.47	38.64	44.50	42.90	54	-11.10	AV
H	15600.168	52.23	10.12	38.38	44.10	56.63	74	-17.37	PK
H	15600.168	40.46	10.12	38.38	44.10	44.86	54	-9.14	AV
High Channel (5240 MHz)-Above 1G									
V	4739.190	62.30	7.10	37.24	43.50	63.14	74	-10.86	PK
V	4739.190	43.65	7.10	37.24	43.50	44.49	54	-9.51	AV
V	10480.076	64.26	8.46	37.68	44.50	65.90	68.2	-2.30	PK
V	10480.076	43.00	8.46	37.68	44.50	44.64	54	-9.36	AV
V	15720.195	63.09	10.12	38.80	44.10	67.91	74	-6.09	PK
V	15720.195	43.58	10.12	38.80	42.70	49.80	54	-4.20	AV
H	4739.179	60.27	7.10	37.24	43.50	61.11	74	-12.89	PK
H	4739.179	43.72	7.10	37.24	43.50	44.56	54	-9.44	AV
H	10480.135	52.57	8.46	38.57	44.50	55.10	68.2	-13.10	PK
H	10480.135	40.78	8.46	38.57	44.50	43.31	54	-10.69	AV
H	15720.072	54.50	10.12	38.38	44.10	58.90	74	-15.10	PK
H	15720.072	43.93	10.12	38.38	44.10	48.33	54	-5.67	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 is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT40
------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.137	61.38	5.94	35.40	44.00	58.72	68.2	-9.48	PK
V	4434.137	43.67	5.94	35.40	44.00	41.01	54	-12.99	AV
V	10380.039	62.85	8.46	39.75	44.50	66.56	68.2	-1.64	PK
V	10380.039	43.10	8.46	39.75	44.50	46.81	54	-7.19	AV
V	15570.122	62.05	10.12	38.80	44.10	66.87	74	-7.13	PK
V	15570.122	43.62	10.12	38.80	42.70	49.84	54	-4.16	AV
H	4434.017	63.77	5.94	35.18	44.00	60.89	74	-13.11	PK
H	4434.017	43.06	5.94	35.18	44.00	40.18	54	-13.82	AV
H	10380.133	51.53	8.46	38.71	44.50	54.20	68.2	-14.00	PK
H	10380.133	42.44	8.46	38.71	44.50	45.11	54	-8.89	AV
H	15570.134	51.73	10.12	38.38	44.10	56.13	74	-17.87	PK
H	15570.134	42.41	10.12	38.38	44.10	46.81	54	-7.19	AV
High Channel (5230 MHz)-Above 1G									
V	4739.198	60.01	6.48	36.35	44.05	58.79	68.2	-9.41	PK
V	4739.198	43.79	6.48	36.35	44.05	42.57	54	-11.43	AV
V	10460.173	63.65	8.47	37.88	44.51	65.49	68.2	-2.71	PK
V	10460.173	43.95	8.47	37.88	44.51	45.79	54	-8.21	AV
V	15690.029	60.79	10.12	38.80	44.10	65.61	74	-8.39	PK
V	15690.029	43.30	10.12	38.80	42.70	49.52	54	-4.48	AV
H	4739.122	63.76	6.48	36.37	44.05	62.56	68.2	-5.64	PK
H	4739.122	43.98	6.48	36.37	44.05	42.78	54	-11.22	AV
H	10460.039	52.57	8.47	38.64	44.50	55.18	68.2	-13.02	PK
H	10460.039	43.19	8.47	38.64	44.50	45.80	54	-8.20	AV
H	15690.060	53.60	10.12	38.38	44.10	58.00	74	-16.00	PK
H	15690.060	43.60	10.12	38.38	44.10	48.00	54	-6.00	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 Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT80
------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5210 MHz)-Above 1G									
V	4434.165	62.10	5.94	35.40	44.00	59.44	68.2	-8.76	PK
V	4434.165	43.43	5.94	35.40	44.00	40.77	54	-13.23	AV
V	10420.033	62.27	8.46	39.75	44.50	65.98	68.2	-2.22	PK
V	10420.033	43.20	8.46	39.75	44.50	46.91	54	-7.09	AV
V	15630.058	63.92	10.12	38.80	44.10	68.74	74	-5.26	PK
V	15630.058	43.49	10.12	38.80	42.70	49.71	54	-4.29	AV
H	4434.061	62.51	5.94	35.18	44.00	59.63	68.2	-8.57	PK
H	4434.061	43.74	5.94	35.18	44.00	40.86	54	-13.14	AV
H	10420.022	54.58	8.46	38.71	44.50	57.25	68.2	-10.95	PK
H	10420.022	44.73	8.46	38.71	44.50	47.40	54	-6.60	AV
H	15630.029	52.11	10.12	38.38	44.10	56.51	74	-17.49	PK
H	15630.029	43.97	10.12	38.38	44.10	48.37	54	-5.63	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 is MIMO Mode.

Test Mode:	TX(5.3G) - 802.11a
------------	--------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5260 MHz)-Above 1G									
V	4434.025	63.29	5.94	35.40	44.00	60.63	68.2	-7.57	PK
V	4434.025	43.44	5.94	35.40	44.00	40.78	54	-13.22	AV
V	10520.143	61.93	8.46	39.75	44.50	65.64	68.2	-2.56	PK
V	10520.143	43.31	8.46	39.75	44.50	47.02	54	-6.98	AV
V	15780.017	60.99	10.12	38.80	44.10	65.81	74	-8.19	PK
V	15780.017	43.25	10.12	38.80	42.70	49.47	54	-4.53	AV
H	4434.153	63.35	5.94	35.18	44.00	60.47	68.2	-7.73	PK
H	4434.153	43.90	5.94	35.18	44.00	41.02	54	-12.98	AV
H	10520.071	54.89	8.46	38.71	44.50	57.56	68.2	-10.64	PK
H	10520.071	43.93	8.46	38.71	44.50	46.60	54	-7.40	AV
H	15780.135	51.30	10.12	38.38	44.10	55.70	74	-18.30	PK
H	15780.135	44.85	10.12	38.38	44.10	49.25	54	-4.75	AV
middle Channel (5280 MHz)-Above 1G									
V	4592.061	60.68	6.48	36.35	44.05	59.46	74	-14.54	PK
V	4592.061	43.23	6.48	36.35	44.05	42.01	54	-11.99	AV
V	10560.062	60.39	8.47	37.88	44.51	62.23	68.2	-5.97	PK
V	10560.062	43.57	8.47	37.88	44.51	45.41	54	-8.59	AV
V	15840.166	64.38	10.12	38.80	44.10	69.20	74	-4.80	PK
V	15840.166	43.53	10.12	38.80	42.70	49.75	54	-4.25	AV
H	4592.094	60.96	6.48	36.37	44.05	59.76	74	-14.24	PK
H	4592.094	43.97	6.48	36.37	44.05	42.77	54	-11.23	AV
H	10560.024	53.09	8.47	38.64	44.50	55.70	68.2	-12.50	PK
H	10560.024	40.87	8.47	38.64	44.50	43.48	54	-10.52	AV
H	15840.047	54.27	10.12	38.38	44.10	58.67	74	-15.33	PK
H	15840.047	42.02	10.12	38.38	44.10	46.42	54	-7.58	AV
High Channel (5320 MHz)-Above 1G									
V	4739.071	60.32	7.10	37.24	43.50	61.16	74	-12.84	PK
V	4739.071	43.23	7.10	37.24	43.50	44.07	54	-9.93	AV
V	10640.039	63.01	8.46	37.68	44.50	64.65	68.2	-3.55	PK
V	10640.039	43.26	8.46	37.68	44.50	44.90	54	-9.10	AV
V	15960.080	60.05	10.12	38.80	44.10	64.87	74	-9.13	PK
V	15960.080	43.85	10.12	38.80	42.70	50.07	54	-3.93	AV
H	4739.124	64.44	7.10	37.24	43.50	65.28	74	-8.72	PK
H	4739.124	43.58	7.10	37.24	43.50	44.42	54	-9.58	AV
H	10640.046	50.46	8.46	38.57	44.50	52.99	68.2	-15.21	PK
H	10640.046	40.10	8.46	38.57	44.50	42.63	54	-11.37	AV
H	15960.047	53.31	10.12	38.38	44.10	57.71	74	-16.29	PK
H	15960.047	41.95	10.12	38.38	44.10	46.35	54	-7.65	AV

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

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

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

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

The worst case is Antenna A.

Test Mode:	TX(5.3G) - 802.11n-HT20
------------	-------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5260 MHz)-Above 1G									
V	4434.021	61.70	5.94	35.40	44.00	59.04	68.2	-9.16	PK
V	4434.021	43.62	5.94	35.40	44.00	40.96	54	-13.04	AV
V	10520.155	60.11	8.46	39.75	44.50	63.82	68.2	-4.38	PK
V	10520.155	43.88	8.46	39.75	44.50	47.59	54	-6.41	AV
V	15780.182	64.79	10.12	38.80	44.10	69.61	74	-4.39	PK
V	15780.182	43.13	10.12	38.80	42.70	49.35	54	-4.65	AV
H	4434.130	62.66	5.94	35.18	44.00	59.78	68.2	-8.42	PK
H	4434.130	43.41	5.94	35.18	44.00	40.53	54	-13.47	AV
H	10520.162	52.68	8.46	38.71	44.50	55.35	68.2	-12.85	PK
H	10520.162	42.91	8.46	38.71	44.50	45.58	54	-8.42	AV
H	15780.024	54.79	10.12	38.38	44.10	59.19	74	-14.81	PK
H	15780.024	40.29	10.12	38.38	44.10	44.69	54	-9.31	AV
middle Channel (5280 MHz)-Above 1G									
V	4592.151	62.33	6.48	36.35	44.05	61.11	74	-12.89	PK
V	4592.151	43.20	6.48	36.35	44.05	41.98	54	-12.02	AV
V	10560.103	63.60	8.47	37.88	44.51	65.44	68.2	-2.76	PK
V	10560.103	43.77	8.47	37.88	44.51	45.61	54	-8.39	AV
V	15840.097	61.84	10.12	38.80	44.10	66.66	74	-7.34	PK
V	15840.097	43.36	10.12	38.80	42.70	49.58	54	-4.42	AV
H	4592.007	62.95	6.48	36.37	44.05	61.75	74	-12.25	PK
H	4592.007	43.58	6.48	36.37	44.05	42.38	54	-11.62	AV
H	10560.111	52.30	8.47	38.64	44.50	54.91	68.2	-13.29	PK
H	10560.111	41.38	8.47	38.64	44.50	43.99	54	-10.01	AV
H	15840.028	50.56	10.12	38.38	44.10	54.96	74	-19.04	PK
H	15840.028	42.27	10.12	38.38	44.10	46.67	54	-7.33	AV
High Channel (5320 MHz)-Above 1G									
V	4739.151	62.99	7.10	37.24	43.50	63.83	74	-10.17	PK
V	4739.151	43.55	7.10	37.24	43.50	44.39	54	-9.61	AV
V	10640.152	63.97	8.46	37.68	44.50	65.61	68.2	-2.59	PK
V	10640.152	43.28	8.46	37.68	44.50	44.92	54	-9.08	AV
V	15960.094	60.69	10.12	38.80	44.10	65.51	74	-8.49	PK
V	15960.094	43.59	10.12	38.80	42.70	49.81	54	-4.19	AV
H	4739.147	61.70	7.10	37.24	43.50	62.54	74	-11.46	PK
H	4739.147	43.73	7.10	37.24	43.50	44.57	54	-9.43	AV
H	10640.060	50.25	8.46	38.57	44.50	52.78	68.2	-15.42	PK
H	10640.060	43.88	8.46	38.57	44.50	46.41	54	-7.59	AV
H	15960.148	54.05	10.12	38.38	44.10	58.45	74	-15.55	PK
H	15960.148	41.43	10.12	38.38	44.10	45.83	54	-8.17	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 Mode.

Test Mode :	TX(5.3G) - 802.11n-HT40
-------------	-------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G									
V	4434.122	64.50	5.94	35.40	44.00	61.84	68.2	-6.36	PK
V	4434.122	43.94	5.94	35.40	44.00	41.28	54	-12.72	AV
V	10540.054	61.80	8.46	39.75	44.50	65.51	68.2	-2.69	PK
V	10540.054	43.80	8.46	39.75	44.50	47.51	54	-6.49	AV
V	15810.136	60.55	10.12	38.80	44.10	65.37	74	-8.63	PK
V	15810.136	43.64	10.12	38.80	42.70	49.86	54	-4.14	AV
H	4434.195	61.23	5.94	35.18	44.00	58.35	74	-15.65	PK
H	4434.195	43.77	5.94	35.18	44.00	40.89	54	-13.11	AV
H	10540.174	52.13	8.46	38.71	44.50	54.80	68.2	-13.40	PK
H	10540.174	43.72	8.46	38.71	44.50	46.39	54	-7.61	AV
H	15810.018	54.50	10.12	38.38	44.10	58.90	74	-15.10	PK
H	15810.018	40.79	10.12	38.38	44.10	45.19	54	-8.81	AV
middle Channel (5310 MHz)-Above 1G									
V	4739.067	64.16	6.48	36.35	44.05	62.94	68.2	-5.26	PK
V	4739.067	43.38	6.48	36.35	44.05	42.16	54	-11.84	AV
V	10620.069	60.86	8.47	37.88	44.51	62.70	68.2	-5.50	PK
V	10620.069	43.92	8.47	37.88	44.51	45.76	54	-8.24	AV
V	15930.134	63.59	10.12	38.80	44.10	68.41	74	-5.59	PK
V	15930.134	43.92	10.12	38.80	42.70	50.14	54	-3.86	AV
H	4739.195	62.45	6.48	36.37	44.05	61.25	68.2	-6.95	PK
H	4739.195	43.03	6.48	36.37	44.05	41.83	54	-12.17	AV
H	10620.189	54.52	8.47	38.64	44.50	57.13	68.2	-11.07	PK
H	10620.189	40.77	8.47	38.64	44.50	43.38	54	-10.62	AV
H	15930.018	51.06	10.12	38.38	44.10	55.46	74	-18.54	PK
H	15930.018	42.05	10.12	38.38	44.10	46.45	54	-7.55	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 is MIMO Mode.

Test Mode :	TX(5.3G) - 802.11ac-HT20
-------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5260 MHz)-Above 1G									
V	4434.177	63.50	5.94	35.40	44.00	60.84	68.2	-7.36	PK
V	4434.177	43.75	5.94	35.40	44.00	41.09	54	-12.91	AV
V	10520.089	63.10	8.46	39.75	44.50	66.81	68.2	-1.39	PK
V	10520.089	43.69	8.46	39.75	44.50	47.40	54	-6.60	AV
V	15780.171	64.18	10.12	38.80	44.10	69.00	74	-5.00	PK
V	15780.171	43.41	10.12	38.80	42.70	49.63	54	-4.37	AV
H	4434.045	62.48	5.94	35.18	44.00	59.60	68.2	-8.60	PK
H	4434.045	43.03	5.94	35.18	44.00	40.15	54	-13.85	AV
H	10520.119	53.02	8.46	38.71	44.50	55.69	68.2	-12.51	PK
H	10520.119	43.24	8.46	38.71	44.50	45.91	54	-8.09	AV
H	15780.155	51.75	10.12	38.38	44.10	56.15	74	-17.85	PK
H	15780.155	44.55	10.12	38.38	44.10	48.95	54	-5.05	AV
middle Channel (5280 MHz)-Above 1G									
V	4592.188	60.29	6.48	36.35	44.05	59.07	74	-14.93	PK
V	4592.188	43.78	6.48	36.35	44.05	42.56	54	-11.44	AV
V	10560.085	60.04	8.47	37.88	44.51	61.88	68.2	-6.32	PK
V	10560.085	43.20	8.47	37.88	44.51	45.04	54	-8.96	AV
V	15840.096	62.87	10.12	38.80	44.10	67.69	74	-6.31	PK
V	15840.096	43.43	10.12	38.80	42.70	49.65	54	-4.35	AV
H	4592.097	61.01	6.48	36.37	44.05	59.81	74	-14.19	PK
H	4592.097	43.41	6.48	36.37	44.05	42.21	54	-11.79	AV
H	10560.100	52.16	8.47	38.64	44.50	54.77	68.2	-13.43	PK
H	10560.100	41.08	8.47	38.64	44.50	43.69	54	-10.31	AV
H	15840.192	54.13	10.12	38.38	44.10	58.53	74	-15.47	PK
H	15840.192	44.11	10.12	38.38	44.10	48.51	54	-5.49	AV
High Channel (5320 MHz)-Above 1G									
V	4739.121	60.10	7.10	37.24	43.50	60.94	74	-13.06	PK
V	4739.121	43.06	7.10	37.24	43.50	43.90	54	-10.10	AV
V	10640.086	62.32	8.46	37.68	44.50	63.96	68.2	-4.24	PK
V	10640.086	43.24	8.46	37.68	44.50	44.88	54	-9.12	AV
V	15960.193	63.82	10.12	38.80	44.10	68.64	74	-5.36	PK
V	15960.193	43.70	10.12	38.80	42.70	49.92	54	-4.08	AV
H	4739.093	61.61	7.10	37.24	43.50	62.45	74	-11.55	PK
H	4739.093	43.60	7.10	37.24	43.50	44.44	54	-9.56	AV
H	10640.056	53.63	8.46	38.57	44.50	56.16	68.2	-12.04	PK
H	10640.056	43.35	8.46	38.57	44.50	45.88	54	-8.12	AV
H	15960.151	53.36	10.12	38.38	44.10	57.76	74	-16.24	PK
H	15960.151	44.77	10.12	38.38	44.10	49.17	54	-4.83	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode :	TX(5.3G) - 802.11ac-HT40
-------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G									
V	4434.059	62.07	5.94	35.40	44.00	59.41	68.2	-8.79	PK
V	4434.059	43.42	5.94	35.40	44.00	40.76	54	-13.24	AV
V	10540.072	60.46	8.46	39.75	44.50	64.17	68.2	-4.03	PK
V	10540.072	43.09	8.46	39.75	44.50	46.80	54	-7.20	AV
V	15810.132	62.22	10.12	38.80	44.10	67.04	74	-6.96	PK
V	15810.132	43.56	10.12	38.80	42.70	49.78	54	-4.22	AV
H	4434.031	60.71	5.94	35.18	44.00	57.83	74	-16.17	PK
H	4434.031	43.00	5.94	35.18	44.00	40.12	54	-13.88	AV
H	10540.198	54.78	8.46	38.71	44.50	57.45	68.2	-10.75	PK
H	10540.198	44.15	8.46	38.71	44.50	46.82	54	-7.18	AV
H	15810.104	50.80	10.12	38.38	44.10	55.20	74	-18.80	PK
H	15810.104	42.95	10.12	38.38	44.10	47.35	54	-6.65	AV
middle Channel (5310 MHz)-Above 1G									
V	4739.014	61.56	6.48	36.35	44.05	60.34	68.2	-7.86	PK
V	4739.014	43.90	6.48	36.35	44.05	42.68	54	-11.32	AV
V	10620.101	60.67	8.47	37.88	44.51	62.51	68.2	-5.69	PK
V	10620.101	43.02	8.47	37.88	44.51	44.86	54	-9.14	AV
V	15930.068	62.28	10.12	38.80	44.10	67.10	74	-6.90	PK
V	15930.068	43.14	10.12	38.80	42.70	49.36	54	-4.64	AV
H	4739.000	60.79	6.48	36.37	44.05	59.59	68.2	-8.61	PK
H	4739.000	43.14	6.48	36.37	44.05	41.94	54	-12.06	AV
H	10620.176	54.73	8.47	38.64	44.50	57.34	68.2	-10.86	PK
H	10620.176	40.25	8.47	38.64	44.50	42.86	54	-11.14	AV
H	15930.032	53.47	10.12	38.38	44.10	57.87	74	-16.13	PK
H	15930.032	40.26	10.12	38.38	44.10	44.66	54	-9.34	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 - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode:	TX(5.3G) - 802.11ac-HT80
------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5290 MHz)-Above 1G									
V	4434.154	63.71	5.94	35.40	44.00	61.05	68.2	-7.15	PK
V	4434.154	43.66	5.94	35.40	44.00	41.00	54	-13.00	AV
V	10580.113	61.13	8.46	39.75	44.50	64.84	68.2	-3.36	PK
V	10580.113	43.68	8.46	39.75	44.50	47.39	54	-6.61	AV
V	15870.154	64.97	10.12	38.80	44.10	69.79	74	-4.21	PK
V	15870.154	43.29	10.12	38.80	42.70	49.51	54	-4.49	AV
H	4434.141	61.00	5.94	35.18	44.00	58.12	68.2	-10.08	PK
H	4434.141	43.34	5.94	35.18	44.00	40.46	54	-13.54	AV
H	10580.068	50.76	8.46	38.71	44.50	53.43	68.2	-14.77	PK
H	10580.068	44.31	8.46	38.71	44.50	46.98	54	-7.02	AV
H	15870.179	53.99	10.12	38.38	44.10	58.39	74	-15.61	PK
H	15870.179	42.38	10.12	38.38	44.10	46.78	54	-7.22	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 is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11a
------------	--------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5500 MHz)-Above 1G									
V	4434.073	62.42	5.94	35.40	44.00	59.76	68.2	-8.44	PK
V	4434.073	43.20	5.94	35.40	44.00	40.54	54	-13.46	AV
V	11000.086	63.67	8.46	39.75	44.50	67.38	68.2	-0.82	PK
V	11000.086	43.09	8.46	39.75	44.50	46.80	54	-7.20	AV
V	16500.195	60.72	10.12	38.80	44.10	65.54	74	-8.46	PK
V	16500.195	43.79	10.12	38.80	42.70	50.01	54	-3.99	AV
H	4434.151	60.83	5.94	35.18	44.00	57.95	68.2	-10.25	PK
H	4434.151	43.12	5.94	35.18	44.00	40.24	54	-13.76	AV
H	11000.005	51.05	8.46	38.71	44.50	53.72	68.2	-14.48	PK
H	11000.005	40.90	8.46	38.71	44.50	43.57	54	-10.43	AV
H	16500.042	50.35	10.12	38.38	44.10	54.75	74	-19.25	PK
H	16500.042	40.22	10.12	38.38	44.10	44.62	54	-9.38	AV
Middle Channel (5580 MHz)-Above 1G									
V	4592.099	64.20	6.48	36.35	44.05	62.98	74	-11.02	PK
V	4592.099	43.60	6.48	36.35	44.05	42.38	54	-11.62	AV
V	11200.135	60.95	8.47	37.88	44.51	62.79	68.2	-5.41	PK
V	11200.135	43.22	8.47	37.88	44.51	45.06	54	-8.94	AV
V	16800.150	64.10	10.12	38.80	44.10	68.92	74	-5.08	PK
V	16800.150	43.38	10.12	38.80	42.70	49.60	54	-4.40	AV
H	4592.030	64.99	6.48	36.37	44.05	63.79	74	-10.21	PK
H	4592.030	43.80	6.48	36.37	44.05	42.60	54	-11.40	AV
H	11200.017	54.23	8.47	38.64	44.50	56.84	68.2	-11.36	PK
H	11200.017	44.81	8.47	38.64	44.50	47.42	54	-6.58	AV
H	16800.086	54.21	10.12	38.38	44.10	58.61	74	-15.39	PK
H	16800.086	42.25	10.12	38.38	44.10	46.65	54	-7.35	AV
High Channel (5700 MHz)-Above 1G									
V	4739.019	61.89	7.10	37.24	43.50	62.73	74	-11.27	PK
V	4739.019	43.85	7.10	37.24	43.50	44.69	54	-9.31	AV
V	11400.176	63.63	8.46	37.68	44.50	65.27	68.2	-2.93	PK
V	11400.176	43.38	8.46	37.68	44.50	45.02	54	-8.98	AV
V	17100.065	62.85	10.12	38.80	44.10	67.67	74	-6.33	PK
V	17100.065	43.67	10.12	38.80	42.70	49.89	54	-4.11	AV
H	4739.117	64.55	7.10	37.24	43.50	65.39	74	-8.61	PK
H	4739.117	43.31	7.10	37.24	43.50	44.15	54	-9.85	AV
H	11400.106	52.61	8.46	38.57	44.50	55.14	68.2	-13.06	PK
H	11400.106	42.44	8.46	38.57	44.50	44.97	54	-9.03	AV
H	17100.151	51.25	10.12	38.38	44.10	55.65	74	-18.35	PK
H	17100.151	44.36	10.12	38.38	44.10	48.76	54	-5.24	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.

The worst case is Antenna A.

Test Mode:	TX(5.6G) - 802.11n-HT20
------------	-------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5500 MHz)-Above 1G									
V	4434.157	61.25	5.94	35.40	44.00	58.59	68.2	-9.61	PK
V	4434.157	43.47	5.94	35.40	44.00	40.81	54	-13.19	AV
V	11000.084	62.38	8.46	39.75	44.50	66.09	68.2	-2.11	PK
V	11000.084	43.21	8.46	39.75	44.50	46.92	54	-7.08	AV
V	16500.016	62.18	10.12	38.80	44.10	67.00	74	-7.00	PK
V	16500.016	43.37	10.12	38.80	42.70	49.59	54	-4.41	AV
H	4434.077	64.00	5.94	35.18	44.00	61.12	68.2	-7.08	PK
H	4434.077	43.52	5.94	35.18	44.00	40.64	54	-13.36	AV
H	11000.123	53.61	8.46	38.71	44.50	56.28	68.2	-11.92	PK
H	11000.123	43.53	8.46	38.71	44.50	46.20	54	-7.80	AV
H	16500.063	54.14	10.12	38.38	44.10	58.54	74	-15.46	PK
H	16500.063	42.33	10.12	38.38	44.10	46.73	54	-7.27	AV
Middle Channel (5580 MHz)-Above 1G									
V	4592.030	63.31	6.48	36.35	44.05	62.09	74	-11.91	PK
V	4592.030	43.94	6.48	36.35	44.05	42.72	54	-11.28	AV
V	11200.200	63.04	8.47	37.88	44.51	64.88	68.2	-3.32	PK
V	11200.200	43.86	8.47	37.88	44.51	45.70	54	-8.30	AV
V	16800.152	63.82	10.12	38.80	44.10	68.64	74	-5.36	PK
V	16800.152	43.69	10.12	38.80	42.70	49.91	54	-4.09	AV
H	4592.168	62.21	6.48	36.37	44.05	61.01	74	-12.99	PK
H	4592.168	43.75	6.48	36.37	44.05	42.55	54	-11.45	AV
H	11200.111	51.14	8.47	38.64	44.50	53.75	68.2	-14.45	PK
H	11200.111	41.60	8.47	38.64	44.50	44.21	54	-9.79	AV
H	16800.191	52.79	10.12	38.38	44.10	57.19	74	-16.81	PK
H	16800.191	40.29	10.12	38.38	44.10	44.69	54	-9.31	AV
High Channel (5700 MHz)-Above 1G									
V	4739.176	62.02	7.10	37.24	43.50	62.86	74	-11.14	PK
V	4739.176	43.88	7.10	37.24	43.50	44.72	54	-9.28	AV
V	11400.003	63.85	8.46	37.68	44.50	65.49	68.2	-2.71	PK
V	11400.003	43.87	8.46	37.68	44.50	45.51	54	-8.49	AV
V	17100.060	63.56	10.12	38.80	44.10	68.38	74	-5.62	PK
V	17100.060	43.23	10.12	38.80	42.70	49.45	54	-4.55	AV
H	4739.092	60.50	7.10	37.24	43.50	61.34	74	-12.66	PK
H	4739.092	43.40	7.10	37.24	43.50	44.24	54	-9.76	AV
H	11400.122	53.76	8.46	38.57	44.50	56.29	68.2	-11.91	PK
H	11400.122	44.68	8.46	38.57	44.50	47.21	54	-6.79	AV
H	17100.176	51.03	10.12	38.38	44.10	55.43	74	-18.57	PK
H	17100.176	44.21	10.12	38.38	44.10	48.61	54	-5.39	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 is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11n-HT40
------------	-------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5510 MHz)-Above 1G									
V	4434.103	64.52	5.94	35.40	44.00	61.86	68.2	-6.34	PK
V	4434.103	43.69	5.94	35.40	44.00	41.03	54	-12.97	AV
V	11020.058	62.80	8.46	39.75	44.50	66.51	68.2	-1.69	PK
V	11020.058	43.18	8.46	39.75	44.50	46.89	54	-7.11	AV
V	16530.144	61.52	10.12	38.80	44.10	66.34	74	-7.66	PK
V	16530.144	43.08	10.12	38.80	42.70	49.30	54	-4.70	AV
H	4434.112	62.57	5.94	35.18	44.00	59.69	74	-14.31	PK
H	4434.112	43.11	5.94	35.18	44.00	40.23	54	-13.77	AV
H	11020.143	51.30	8.46	38.71	44.50	53.97	68.2	-14.23	PK
H	11020.143	40.37	8.46	38.71	44.50	43.04	54	-10.96	AV
H	16530.149	52.99	10.12	38.38	44.10	57.39	74	-16.61	PK
H	16530.149	42.04	10.12	38.38	44.10	46.44	54	-7.56	AV
Middle Channel (5550 MHz)-Above 1G									
V	4739.114	62.99	6.48	36.35	44.05	61.77	68.2	-6.43	PK
V	4739.114	43.83	6.48	36.35	44.05	42.61	54	-11.39	AV
V	11100.076	61.88	8.47	37.88	44.51	63.72	68.2	-4.48	PK
V	11100.076	43.63	8.47	37.88	44.51	45.47	54	-8.53	AV
V	16650.172	64.41	10.12	38.80	44.10	69.23	74	-4.77	PK
V	16650.172	43.45	10.12	38.80	42.70	49.67	54	-4.33	AV
H	4739.139	63.17	6.48	36.37	44.05	61.97	68.2	-6.23	PK
H	4739.139	43.83	6.48	36.37	44.05	42.63	54	-11.37	AV
H	11100.139	50.05	8.47	38.64	44.50	52.66	68.2	-15.54	PK
H	11100.139	42.06	8.47	38.64	44.50	44.67	54	-9.33	AV
H	16650.124	50.85	10.12	38.38	44.10	55.25	74	-18.75	PK
H	16650.124	43.77	10.12	38.38	44.10	48.17	54	-5.83	AV
High Channel (5670 MHz)-Above 1G									
V	4739.178	64.24	6.48	36.35	44.05	63.02	68.2	-5.18	PK
V	4739.178	43.79	6.48	36.35	44.05	42.57	54	-11.43	AV
V	11340.129	61.50	8.47	37.88	44.51	63.34	68.2	-4.86	PK
V	11340.129	43.09	8.47	37.88	44.51	44.93	54	-9.07	AV
V	17010.148	61.28	10.12	38.80	44.10	66.10	74	-7.90	PK
V	17010.148	43.99	10.12	38.80	42.70	50.21	54	-3.79	AV
H	4739.188	60.33	6.48	36.37	44.05	59.13	68.2	-9.07	PK
H	4739.188	43.74	6.48	36.37	44.05	42.54	54	-11.46	AV
H	11340.027	54.85	8.47	38.64	44.50	57.46	68.2	-10.74	PK
H	11340.027	44.50	8.47	38.64	44.50	47.11	54	-6.89	AV
H	17010.044	51.35	10.12	38.38	44.10	55.75	74	-18.25	PK
H	17010.044	40.37	10.12	38.38	44.10	44.77	54	-9.23	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 Mode.

Test Mode:	TX(5.6G) - 802.11ac-HT20
------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5500 MHz)-Above 1G									
V	4434.122	61.72	5.94	35.40	44.00	59.06	68.2	-9.14	PK
V	4434.122	43.20	5.94	35.40	44.00	40.54	54	-13.46	AV
V	11000.020	63.63	8.46	39.75	44.50	67.34	68.2	-0.86	PK
V	11000.020	43.77	8.46	39.75	44.50	47.48	54	-6.52	AV
V	16500.053	60.25	10.12	38.80	44.10	65.07	74	-8.93	PK
V	16500.053	43.34	10.12	38.80	42.70	49.56	54	-4.44	AV
H	4434.137	61.66	5.94	35.18	44.00	58.78	68.2	-9.42	PK
H	4434.137	43.91	5.94	35.18	44.00	41.03	54	-12.97	AV
H	11000.133	52.01	8.46	38.71	44.50	54.68	68.2	-13.52	PK
H	11000.133	42.84	8.46	38.71	44.50	45.51	54	-8.49	AV
H	16500.035	51.17	10.12	38.38	44.10	55.57	74	-18.43	PK
H	16500.035	44.20	10.12	38.38	44.10	48.60	54	-5.40	AV
Middle Channel (5580 MHz)-Above 1G									
V	4592.126	60.60	6.48	36.35	44.05	59.38	74	-14.62	PK
V	4592.126	43.52	6.48	36.35	44.05	42.30	54	-11.70	AV
V	11200.181	62.69	8.47	37.88	44.51	64.53	68.2	-3.67	PK
V	11200.181	44.00	8.47	37.88	44.51	45.84	54	-8.16	AV
V	16800.144	64.79	10.12	38.80	44.10	69.61	74	-4.39	PK
V	16800.144	43.67	10.12	38.80	42.70	49.89	54	-4.11	AV
H	4592.035	60.59	6.48	36.37	44.05	59.39	74	-14.61	PK
H	4592.035	43.11	6.48	36.37	44.05	41.91	54	-12.09	AV
H	11200.067	53.70	8.47	38.64	44.50	56.31	68.2	-11.89	PK
H	11200.067	41.03	8.47	38.64	44.50	43.64	54	-10.36	AV
H	16800.160	52.52	10.12	38.38	44.10	56.92	74	-17.08	PK
H	16800.160	40.35	10.12	38.38	44.10	44.75	54	-9.25	AV
High Channel (5700 MHz)-Above 1G									
V	4739.086	61.92	7.10	37.24	43.50	62.76	74	-11.24	PK
V	4739.086	43.86	7.10	37.24	43.50	44.70	54	-9.30	AV
V	11400.111	60.55	8.46	37.68	44.50	62.19	68.2	-6.01	PK
V	11400.111	43.77	8.46	37.68	44.50	45.41	54	-8.59	AV
V	17100.032	60.65	10.12	38.80	44.10	65.47	74	-8.53	PK
V	17100.032	43.03	10.12	38.80	42.70	49.25	54	-4.75	AV
H	4739.037	61.86	7.10	37.24	43.50	62.70	74	-11.30	PK
H	4739.037	43.28	7.10	37.24	43.50	44.12	54	-9.88	AV
H	11400.101	52.23	8.46	38.57	44.50	54.76	68.2	-13.44	PK
H	11400.101	44.67	8.46	38.57	44.50	47.20	54	-6.80	AV
H	17100.084	53.76	10.12	38.38	44.10	58.16	74	-15.84	PK
H	17100.084	43.17	10.12	38.38	44.10	47.57	54	-6.43	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 Mode.

Test Mode:	TX(5.6G) - 802.11ac-HT40
------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5510 MHz)-Above 1G									
V	4434.137	64.83	5.94	35.40	44.00	62.17	68.2	-6.03	PK
V	4434.137	43.41	5.94	35.40	44.00	40.75	54	-13.25	AV
V	11020.080	63.86	8.46	39.75	44.50	67.57	68.2	-0.63	PK
V	11020.080	43.14	8.46	39.75	44.50	46.85	54	-7.15	AV
V	16530.196	63.54	10.12	38.80	44.10	68.36	74	-5.64	PK
V	16530.196	43.99	10.12	38.80	42.70	50.21	54	-3.79	AV
H	4434.122	61.14	5.94	35.18	44.00	58.26	74	-15.74	PK
H	4434.122	43.61	5.94	35.18	44.00	40.73	54	-13.27	AV
H	11020.138	53.97	8.46	38.71	44.50	56.64	68.2	-11.56	PK
H	11020.138	42.56	8.46	38.71	44.50	45.23	54	-8.77	AV
H	16530.153	53.71	10.12	38.38	44.10	58.11	74	-15.89	PK
H	16530.153	42.49	10.12	38.38	44.10	46.89	54	-7.11	AV
Middle Channel (5550 MHz)-Above 1G									
V	4739.075	60.41	6.48	36.35	44.05	59.19	68.2	-9.01	PK
V	4739.075	43.10	6.48	36.35	44.05	41.88	54	-12.12	AV
V	11100.155	62.75	8.47	37.88	44.51	64.59	68.2	-3.61	PK
V	11100.155	43.03	8.47	37.88	44.51	44.87	54	-9.13	AV
V	16650.044	61.54	10.12	38.80	44.10	66.36	74	-7.64	PK
V	16650.044	43.78	10.12	38.80	42.70	50.00	54	-4.00	AV
H	4739.112	62.46	6.48	36.37	44.05	61.26	68.2	-6.94	PK
H	4739.112	43.16	6.48	36.37	44.05	41.96	54	-12.04	AV
H	11100.039	54.31	8.47	38.64	44.50	56.92	68.2	-11.28	PK
H	11100.039	41.30	8.47	38.64	44.50	43.91	54	-10.09	AV
H	16650.091	54.81	10.12	38.38	44.10	59.21	74	-14.79	PK
H	16650.091	42.30	10.12	38.38	44.10	46.70	54	-7.30	AV
High Channel (5670 MHz)-Above 1G									
V	4739.147	63.76	6.48	36.35	44.05	62.54	68.2	-5.66	PK
V	4739.147	43.75	6.48	36.35	44.05	42.53	54	-11.47	AV
V	11340.008	63.56	8.47	37.88	44.51	65.40	68.2	-2.80	PK
V	11340.008	43.29	8.47	37.88	44.51	45.13	54	-8.87	AV
V	17010.176	60.67	10.12	38.80	44.10	65.49	74	-8.51	PK
V	17010.176	43.65	10.12	38.80	42.70	49.87	54	-4.13	AV
H	4739.048	63.15	6.48	36.37	44.05	61.95	68.2	-6.25	PK
H	4739.048	43.98	6.48	36.37	44.05	42.78	54	-11.22	AV
H	11340.048	52.34	8.47	38.64	44.50	54.95	68.2	-13.25	PK
H	11340.048	43.75	8.47	38.64	44.50	46.36	54	-7.64	AV
H	17010.021	50.43	10.12	38.38	44.10	54.83	74	-19.17	PK
H	17010.021	43.72	10.12	38.38	44.10	48.12	54	-5.88	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 Mode.

Test Mode:	TX(5.6G) - 802.11ac-HT80
------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5530 MHz)-Above 1G									
V	4434.023	62.48	5.94	35.40	44.00	59.82	68.2	-8.38	PK
V	4434.023	43.16	5.94	35.40	44.00	40.50	54	-13.50	AV
V	11060.173	63.95	8.46	39.75	44.50	67.66	68.2	-0.54	PK
V	11060.173	43.98	8.46	39.75	44.50	47.69	54	-6.31	AV
V	16590.038	63.78	10.12	38.80	44.10	68.60	74	-5.40	PK
V	16590.038	44.00	10.12	38.80	42.70	50.22	54	-3.78	AV
H	4434.057	61.29	5.94	35.18	44.00	58.41	68.2	-9.79	PK
H	4434.057	43.06	5.94	35.18	44.00	40.18	54	-13.82	AV
H	11060.158	53.96	8.46	38.71	44.50	56.63	68.2	-11.57	PK
H	11060.158	44.25	8.46	38.71	44.50	46.92	54	-7.08	AV
H	16590.091	54.54	10.12	38.38	44.10	58.94	74	-15.06	PK
H	16590.091	40.19	10.12	38.38	44.10	44.59	54	-9.41	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 Mode.

Test Mode:	TX(5.8G) - 802.11a
------------	--------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.103	57.38	5.94	35.40	44.00	54.72	74	-19.28	PK
V	4679.103	43.09	5.94	35.40	44.00	40.43	54	-13.57	AV
V	11490.160	56.72	8.46	39.75	44.50	60.43	68.2	-7.77	PK
V	11490.160	43.39	8.46	39.75	44.50	47.10	54	-6.90	AV
V	17235.005	59.15	10.12	38.80	44.10	63.97	68.2	-4.23	PK
V	17235.005	43.20	10.12	38.80	42.70	49.42	54	-4.58	AV
H	4679.178	58.63	5.94	35.18	44.00	55.75	74	-18.25	PK
H	4679.178	43.41	5.94	35.18	44.00	40.53	54	-13.47	AV
H	11490.072	50.16	8.46	38.71	44.50	52.83	68.2	-15.37	PK
H	11490.072	43.79	8.46	38.71	44.50	46.46	54	-7.54	AV
H	17235.115	50.31	10.12	38.38	44.10	54.71	68.2	-13.49	PK
H	17235.115	43.93	10.12	38.38	44.10	48.33	54	-5.67	AV
Middle Channel (5785 MHz)-Above 1G									
V	4592.183	55.30	6.48	36.35	44.05	54.08	74	-19.92	PK
V	4592.183	43.69	6.48	36.35	44.05	42.47	54	-11.53	AV
V	11570.009	57.80	8.47	37.88	44.51	59.64	68.2	-8.56	PK
V	11570.009	43.36	8.47	37.88	44.51	45.20	54	-8.80	AV
V	17355.072	60.65	10.12	38.80	44.10	65.47	68.2	-2.73	PK
V	17355.072	39.92	10.12	38.80	42.70	46.14	54	-7.86	AV
H	4592.103	58.49	6.48	36.37	44.05	57.29	74	-16.71	PK
H	4592.103	43.87	6.48	36.37	44.05	42.67	54	-11.33	AV
H	11570.097	53.22	8.47	38.64	44.50	55.83	68.2	-12.37	PK
H	11570.097	42.16	8.47	38.64	44.50	44.77	54	-9.23	AV
H	17355.063	53.04	10.12	38.38	44.10	57.44	68.2	-10.76	PK
H	17355.063	41.75	10.12	38.38	44.10	46.15	54	-7.85	AV
High Channel (5825 MHz)-Above 1G									
V	6039.162	58.17	7.10	37.24	43.50	59.01	68.2	-9.19	PK
V	6039.162	43.70	7.10	37.24	43.50	44.54	54	-9.46	AV
V	11650.054	60.25	8.46	37.68	44.50	61.89	74	-12.11	PK
V	11650.054	43.40	8.46	37.68	44.50	45.04	54	-8.96	AV
V	17475.118	54.30	10.12	38.80	44.10	59.12	68.2	-9.08	PK
V	17475.118	43.88	10.12	38.80	42.70	50.10	54	-3.90	AV
H	6039.029	58.85	7.10	37.24	43.50	59.69	68.2	-8.51	PK
H	6039.029	43.34	7.10	37.24	43.50	44.18	54	-9.82	AV
H	11650.003	54.19	8.46	38.57	44.50	56.72	74	-17.28	PK
H	11650.003	43.65	8.46	38.57	44.50	46.18	54	-7.82	AV
H	17475.031	50.25	10.12	38.38	44.10	54.65	68.2	-13.55	PK
H	17475.031	44.64	10.12	38.38	44.10	49.04	54	-4.96	AV

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

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

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

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

The worst case is Antenna A.

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

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.082	56.85	5.94	35.40	44.00	54.19	74	-19.81	PK
V	4679.082	43.78	5.94	35.40	44.00	41.12	54	-12.88	AV
V	11490.177	55.08	8.46	39.75	44.50	58.79	68.2	-9.41	PK
V	11490.177	43.88	8.46	39.75	44.50	47.59	54	-6.41	AV
V	17235.066	59.66	10.12	38.80	44.10	64.48	68.2	-3.72	PK
V	17235.066	43.55	10.12	38.80	42.70	49.77	54	-4.23	AV
H	4679.140	56.62	5.94	35.18	44.00	53.74	74	-20.26	PK
H	4679.140	43.89	5.94	35.18	44.00	41.01	54	-12.99	AV
H	11490.196	51.85	8.46	38.71	44.50	54.52	68.2	-13.68	PK
H	11490.196	41.62	8.46	38.71	44.50	44.29	54	-9.71	AV
H	17235.079	54.22	10.12	38.38	44.10	58.62	68.2	-9.58	PK
H	17235.079	43.96	10.12	38.38	44.10	48.36	54	-5.64	AV
Middle Channel (5785 MHz)-Above 1G									
V	4592.132	61.18	6.48	36.35	44.05	59.96	74	-14.04	PK
V	4592.132	43.85	6.48	36.35	44.05	42.63	54	-11.37	AV
V	11570.043	55.37	8.47	37.88	44.51	57.21	68.2	-10.99	PK
V	11570.043	43.81	8.47	37.88	44.51	45.65	54	-8.35	AV
V	17355.086	58.79	10.12	38.80	44.10	63.61	68.2	-4.59	PK
V	17355.086	43.12	10.12	38.80	42.70	49.34	54	-4.66	AV
H	4592.169	59.99	6.48	36.37	44.05	58.79	74	-15.21	PK
H	4592.169	43.82	6.48	36.37	44.05	42.62	54	-11.38	AV
H	11570.075	50.25	8.47	38.64	44.50	52.86	68.2	-15.34	PK
H	11570.075	44.44	8.47	38.64	44.50	47.05	54	-6.95	AV
H	17355.134	52.07	10.12	38.38	44.10	56.47	68.2	-11.73	PK
H	17355.134	43.78	10.12	38.38	44.10	48.18	54	-5.82	AV
High Channel (5825 MHz)-Above 1G									
V	6039.145	56.16	7.10	37.24	43.50	57.00	68.2	-11.20	PK
V	6039.145	43.67	7.10	37.24	43.50	44.51	54	-9.49	AV
V	11650.173	57.47	8.46	37.68	44.50	59.11	74	-14.89	PK
V	11650.173	43.87	8.46	37.68	44.50	45.51	54	-8.49	AV
V	17475.157	59.63	10.12	38.80	44.10	64.45	68.2	-3.75	PK
V	17475.157	43.77	10.12	38.80	42.70	49.99	54	-4.01	AV
H	6039.144	55.51	7.10	37.24	43.50	56.35	68.2	-11.85	PK
H	6039.144	43.71	7.10	37.24	43.50	44.55	54	-9.45	AV
H	11650.013	50.80	8.46	38.57	44.50	53.33	74	-20.67	PK
H	11650.013	42.55	8.46	38.57	44.50	45.08	54	-8.92	AV
H	17475.102	51.40	10.12	38.38	44.10	55.80	68.2	-12.40	PK
H	17475.102	44.76	10.12	38.38	44.10	49.16	54	-4.84	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.

Test Mode is MIMO Mode.

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

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.133	59.08	5.94	35.40	44.00	56.42	74	-17.58	PK
V	4679.133	43.39	5.94	35.40	44.00	40.73	54	-13.27	AV
V	11510.049	55.58	8.46	39.75	44.50	59.29	74	-14.71	PK
V	11510.049	43.23	8.46	39.75	44.50	46.94	54	-7.06	AV
V	17265.007	58.27	10.12	38.80	44.10	63.09	68.2	-5.11	PK
V	17265.007	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.035	56.96	5.94	35.18	44.00	54.08	74	-19.92	PK
H	4679.035	43.52	5.94	35.18	44.00	40.64	54	-13.36	AV
H	11510.111	52.27	8.46	38.71	44.50	54.94	74	-19.06	PK
H	11510.111	44.96	8.46	38.71	44.50	47.63	54	-6.37	AV
H	17265.088	54.72	10.12	38.38	44.10	59.12	68.2	-9.08	PK
H	17265.088	40.44	10.12	38.38	44.10	44.84	54	-9.16	AV
High Channel (5795 MHz)-Above 1G									
V	6039.126	59.57	6.48	36.35	44.05	58.35	68.2	-9.85	PK
V	6039.126	43.90	6.48	36.35	44.05	42.68	54	-11.32	AV
V	11590.054	55.08	8.47	37.88	44.51	56.92	74	-17.08	PK
V	11590.054	43.02	8.47	37.88	44.51	44.86	54	-9.14	AV
V	17385.165	55.23	10.12	38.80	44.10	60.05	68.2	-8.15	PK
V	17385.165	41.33	10.12	38.80	42.70	47.55	54	-6.45	AV
H	6039.142	59.46	6.48	36.37	44.05	58.26	68.2	-9.94	PK
H	6039.142	43.24	6.48	36.37	44.05	42.04	54	-11.96	AV
H	11590.051	53.02	8.47	38.64	44.50	55.63	74	-18.37	PK
H	11590.051	40.35	8.47	38.64	44.50	42.96	54	-11.04	AV
H	17385.160	53.58	10.12	38.38	44.10	57.98	68.2	-10.22	PK
H	17385.160	43.24	10.12	38.38	44.10	47.64	54	-6.36	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 Mode.

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

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.154	58.17	5.94	35.40	44.00	55.51	74	-18.49	PK
V	4679.154	43.19	5.94	35.40	44.00	40.53	54	-13.47	AV
V	11490.178	54.44	8.46	39.75	44.50	58.15	68.2	-10.05	PK
V	11490.178	43.58	8.46	39.75	44.50	47.29	54	-6.71	AV
V	17235.149	59.28	10.12	38.80	44.10	64.10	68.2	-4.10	PK
V	17235.149	43.25	10.12	38.80	42.70	49.47	54	-4.53	AV
H	4679.040	58.68	5.94	35.18	44.00	55.80	74	-18.20	PK
H	4679.040	43.27	5.94	35.18	44.00	40.39	54	-13.61	AV
H	11490.021	51.82	8.46	38.71	44.50	54.49	68.2	-13.71	PK
H	11490.021	44.67	8.46	38.71	44.50	47.34	54	-6.66	AV
H	17235.106	54.13	10.12	38.38	44.10	58.53	68.2	-9.67	PK
H	17235.106	43.94	10.12	38.38	44.10	48.34	54	-5.66	AV
Middle Channel (5785 MHz)-Above 1G									
V	4592.172	61.34	6.48	36.35	44.05	60.12	74	-13.88	PK
V	4592.172	43.24	6.48	36.35	44.05	42.02	54	-11.98	AV
V	11570.146	55.73	8.47	37.88	44.51	57.57	68.2	-10.63	PK
V	11570.146	43.80	8.47	37.88	44.51	45.64	54	-8.36	AV
V	17355.198	58.74	10.12	38.80	44.10	63.56	68.2	-4.64	PK
V	17355.198	43.98	10.12	38.80	42.70	50.20	54	-3.80	AV
H	4592.073	57.96	6.48	36.37	44.05	56.76	74	-17.24	PK
H	4592.073	43.92	6.48	36.37	44.05	42.72	54	-11.28	AV
H	11570.091	53.64	8.47	38.64	44.50	56.25	68.2	-11.95	PK
H	11570.091	44.46	8.47	38.64	44.50	47.07	54	-6.93	AV
H	17355.190	52.24	10.12	38.38	44.10	56.64	68.2	-11.56	PK
H	17355.190	41.37	10.12	38.38	44.10	45.77	54	-8.23	AV
High Channel (5825 MHz)-Above 1G									
V	6039.154	57.70	7.10	37.24	43.50	58.54	68.2	-9.66	PK
V	6039.154	43.58	7.10	37.24	43.50	44.42	54	-9.58	AV
V	11650.028	57.21	8.46	37.68	44.50	58.85	74	-15.15	PK
V	11650.028	43.88	8.46	37.68	44.50	45.52	54	-8.48	AV
V	17475.124	58.85	10.12	38.80	44.10	63.67	68.2	-4.53	PK
V	17475.124	43.00	10.12	38.80	42.70	49.22	54	-4.78	AV
H	6039.105	56.01	7.10	37.24	43.50	56.85	68.2	-11.35	PK
H	6039.105	43.74	7.10	37.24	43.50	44.58	54	-9.42	AV
H	11650.144	50.18	8.46	38.57	44.50	52.71	74	-21.29	PK
H	11650.144	44.49	8.46	38.57	44.50	47.02	54	-6.98	AV
H	17475.143	54.98	10.12	38.38	44.10	59.38	68.2	-8.82	PK
H	17475.143	43.91	10.12	38.38	44.10	48.31	54	-5.69	AV

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

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

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

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

Test Mode is MIMO Mode.

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

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.166	58.44	5.94	35.40	44.00	55.78	74	-18.22	PK
V	4679.166	43.45	5.94	35.40	44.00	40.79	54	-13.21	AV
V	11510.037	56.71	8.46	39.75	44.50	60.42	74	-13.58	PK
V	11510.037	43.93	8.46	39.75	44.50	47.64	54	-6.36	AV
V	17265.182	58.67	10.12	38.80	44.10	63.49	68.2	-4.71	PK
V	17265.182	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.150	57.02	5.94	35.18	44.00	54.14	74	-19.86	PK
H	4679.150	43.66	5.94	35.18	44.00	40.78	54	-13.22	AV
H	11510.153	54.76	8.46	38.71	44.50	57.43	74	-16.57	PK
H	11510.153	42.82	8.46	38.71	44.50	45.49	54	-8.51	AV
H	17265.152	50.26	10.12	38.38	44.10	54.66	68.2	-13.54	PK
H	17265.152	41.04	10.12	38.38	44.10	45.44	54	-8.56	AV
High Channel (5795 MHz)-Above 1G									
V	6039.091	56.01	6.48	36.35	44.05	54.79	68.2	-13.41	PK
V	6039.091	43.83	6.48	36.35	44.05	42.61	54	-11.39	AV
V	11590.029	56.17	8.47	37.88	44.51	58.01	74	-15.99	PK
V	11590.029	43.86	8.47	37.88	44.51	45.70	54	-8.30	AV
V	17385.104	55.96	10.12	38.80	44.10	60.78	68.2	-7.42	PK
V	17385.104	41.90	10.12	38.80	42.70	48.12	54	-5.88	AV
H	6039.162	58.66	6.48	36.37	44.05	57.46	68.2	-10.74	PK
H	6039.162	43.84	6.48	36.37	44.05	42.64	54	-11.36	AV
H	11590.065	52.41	8.47	38.64	44.50	55.02	74	-18.98	PK
H	11590.065	41.58	8.47	38.64	44.50	44.19	54	-9.81	AV
H	17385.194	51.10	10.12	38.38	44.10	55.50	68.2	-12.70	PK
H	17385.194	41.50	10.12	38.38	44.10	45.90	54	-8.10	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 Mode.

Test Mode:	TX(5.8G) - 802.11ac-HT80
------------	--------------------------

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5775 MHz)-Above 1G									
V	4679.021	55.62	5.94	35.40	44.00	52.96	74	-21.04	PK
V	4679.021	43.99	5.94	35.40	44.00	41.33	54	-12.67	AV
V	11550.159	56.27	8.46	39.75	44.50	59.98	74	-14.02	PK
V	11550.159	43.95	8.46	39.75	44.50	47.66	54	-6.34	AV
V	17325.171	58.92	10.12	38.80	44.10	63.74	68.2	-4.46	PK
V	17325.171	41.36	10.12	38.80	42.70	47.58	54	-6.42	AV
H	4679.031	57.92	5.94	35.18	44.00	55.04	74	-18.96	PK
H	4679.031	43.09	5.94	35.18	44.00	40.21	54	-13.79	AV
H	11550.021	50.95	8.46	38.71	44.50	53.62	74	-20.38	PK
H	11550.021	41.41	8.46	38.71	44.50	44.08	54	-9.92	AV
H	17325.025	52.95	10.12	38.38	44.10	57.35	68.2	-10.85	PK
H	17325.025	42.25	10.12	38.38	44.10	46.65	54	-7.35	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.

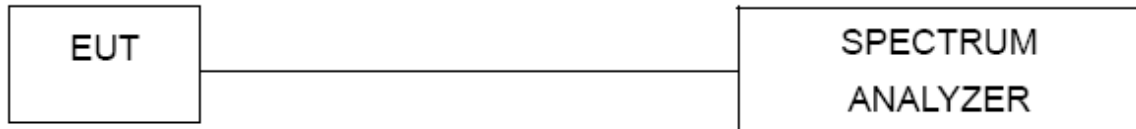
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Test Mode is MIMO 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

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum 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 ($< 1 \text{ MHz}$, or $< 500 \text{ kHz}$) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $\text{RBW} \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $\text{VBW} \geq 3 \text{ RBW}$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 500 \text{ KHz})$ 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 $10\log(1\text{MHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 1 \text{ MHz})$ 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 $\text{RBW}=100 \text{ KHz}$ 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:	AC 120V/60Hz
Test Mode:	(5180-5240MHz)		

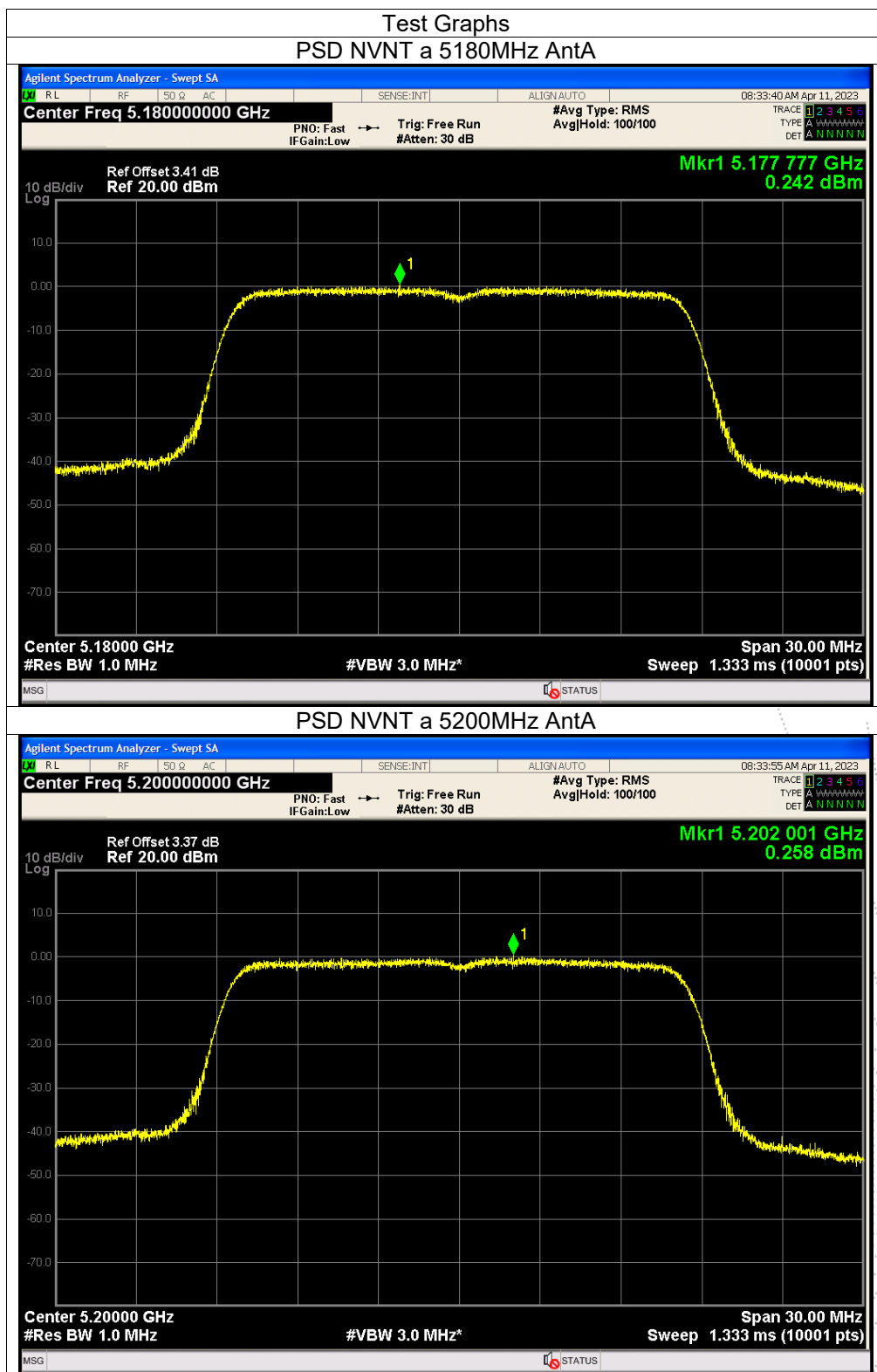
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5180	0.24	-2.01	/	11	Pass
NVNT	a	5200	0.26	-1.19	/	11	Pass
NVNT	a	5240	-0.38	-0.96	/	11	Pass
NVNT	n20	5180	-4.16	-4.91	-1.51	7.03	Pass
NVNT	n20	5200	-4.38	-4.72	-1.54	7.03	Pass
NVNT	n20	5240	-4.18	-4.44	-1.30	7.03	Pass
NVNT	n40	5190	-8.26	-8.68	-5.45	7.03	Pass
NVNT	n40	5230	-8.51	-8.78	-5.63	7.03	Pass
NVNT	ac20	5180	-4.53	-4.97	-1.73	7.03	Pass
NVNT	ac20	5200	-4.73	-5.13	-1.92	7.03	Pass
NVNT	ac20	5240	-4.66	-5.03	-1.83	7.03	Pass
NVNT	ac40	5190	-8.04	-8.67	-5.33	7.03	Pass
NVNT	ac40	5230	-8.03	-8.48	-5.24	7.03	Pass
NVNT	ac80	5210	-11.85	-12.41	-9.11	7.03	Pass

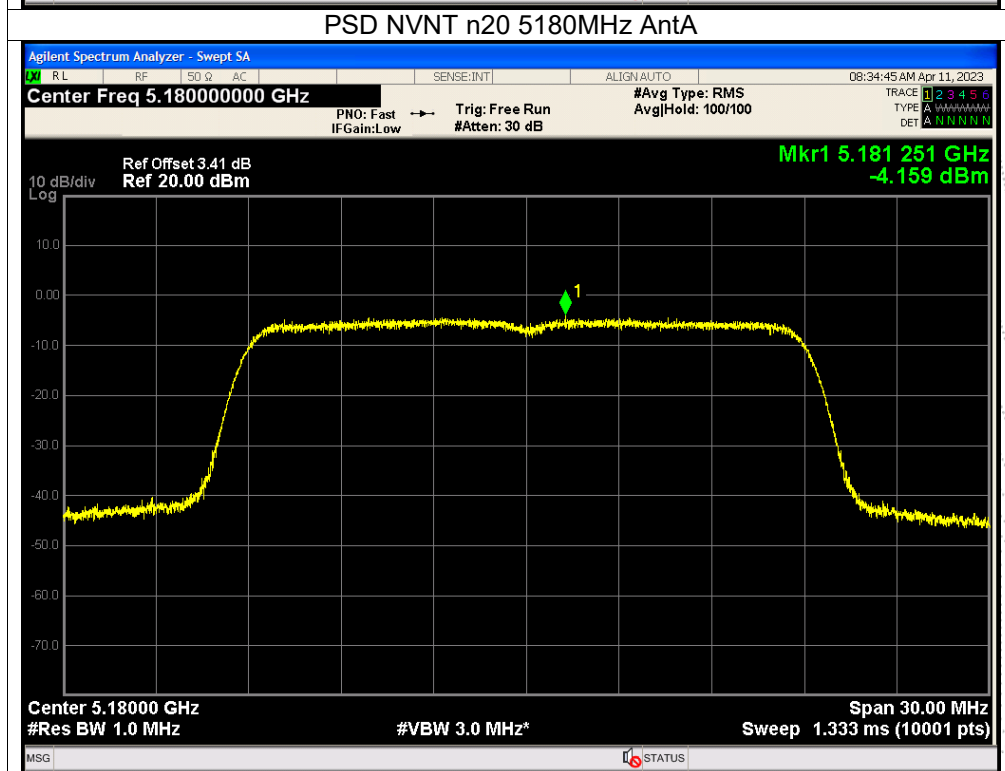
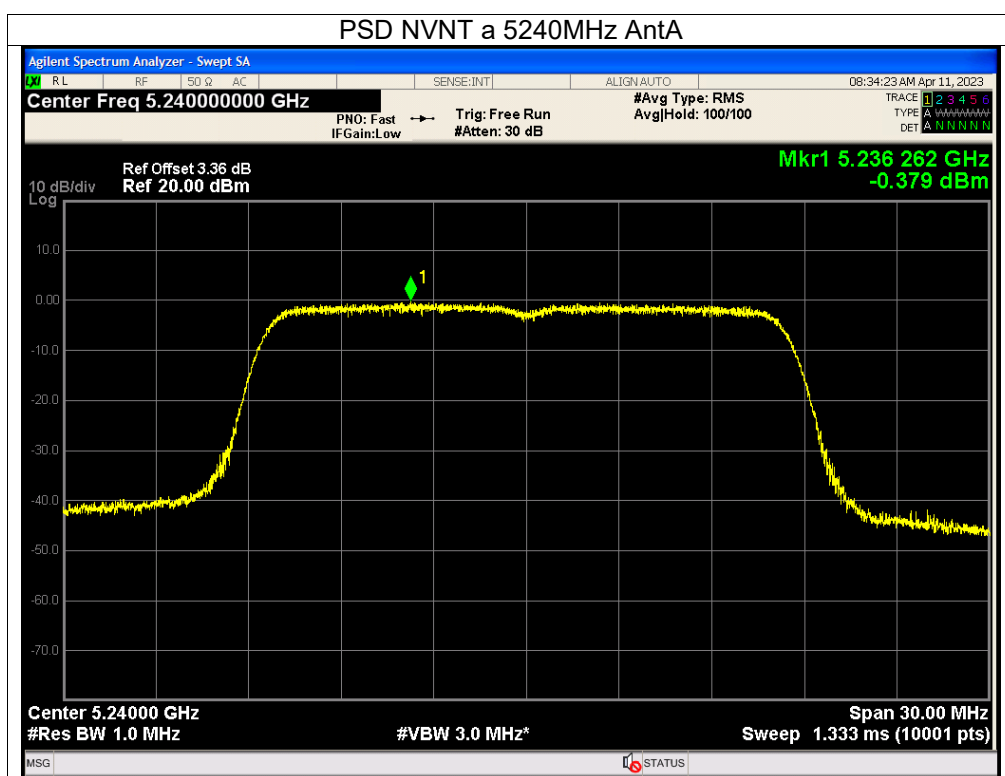
Note:

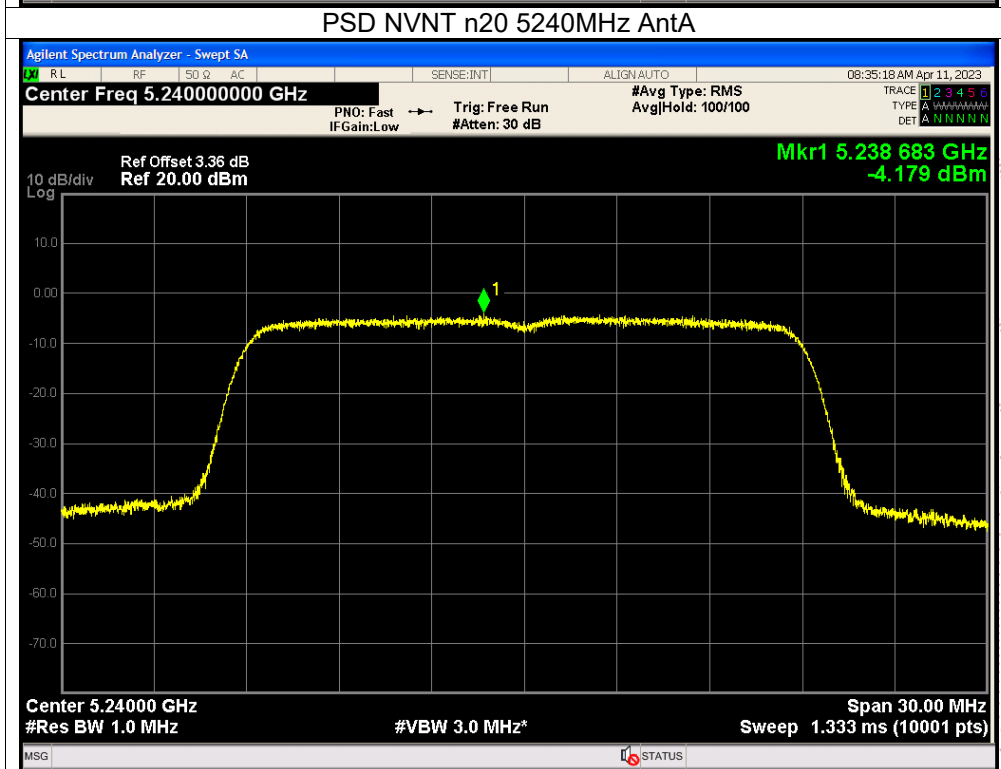
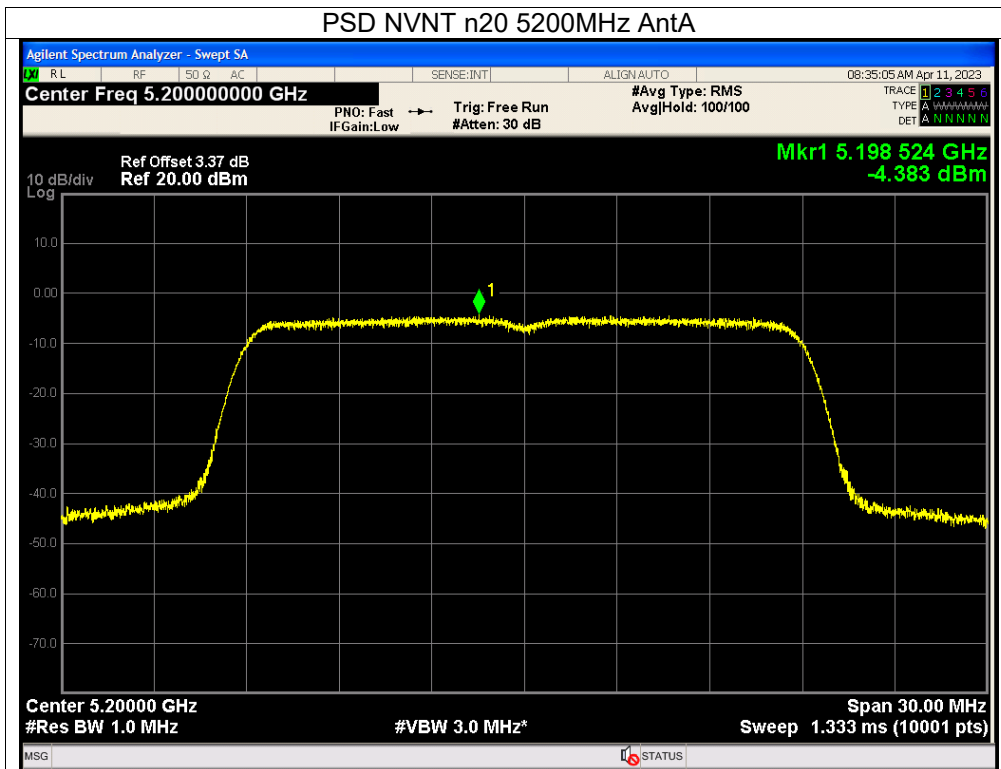
Antenna A gain:6.96 dBi, Antenna B gain: 6.96 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=9.97 dbi>6dbi

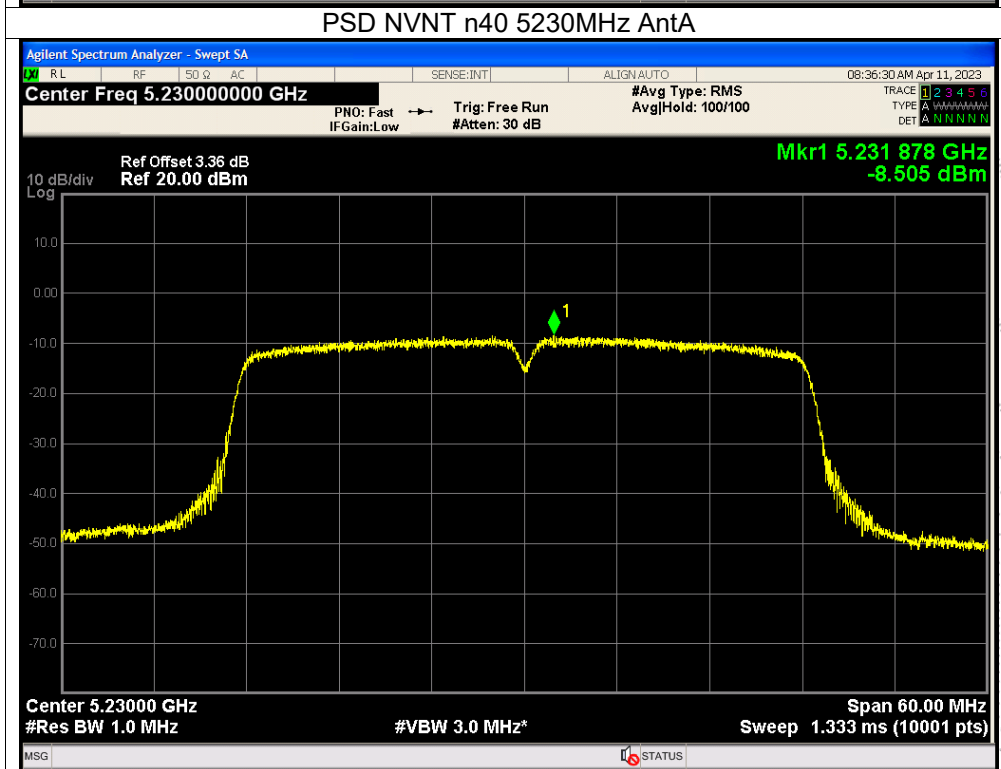
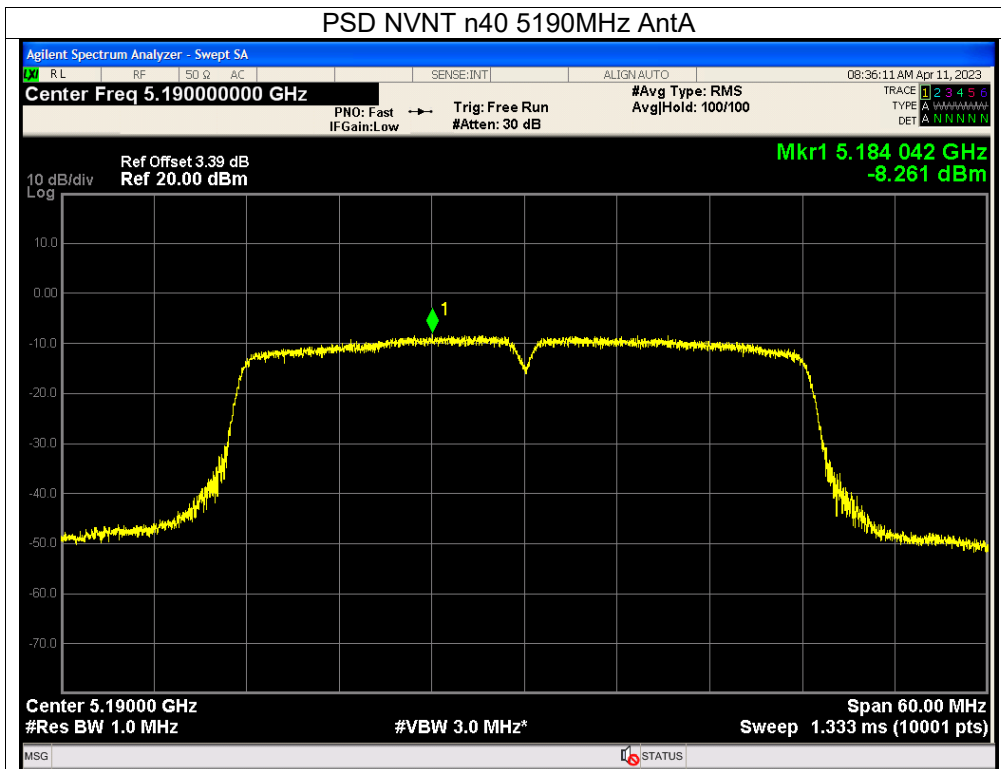
Limit=11-(9.97-6)=7.03 dbi

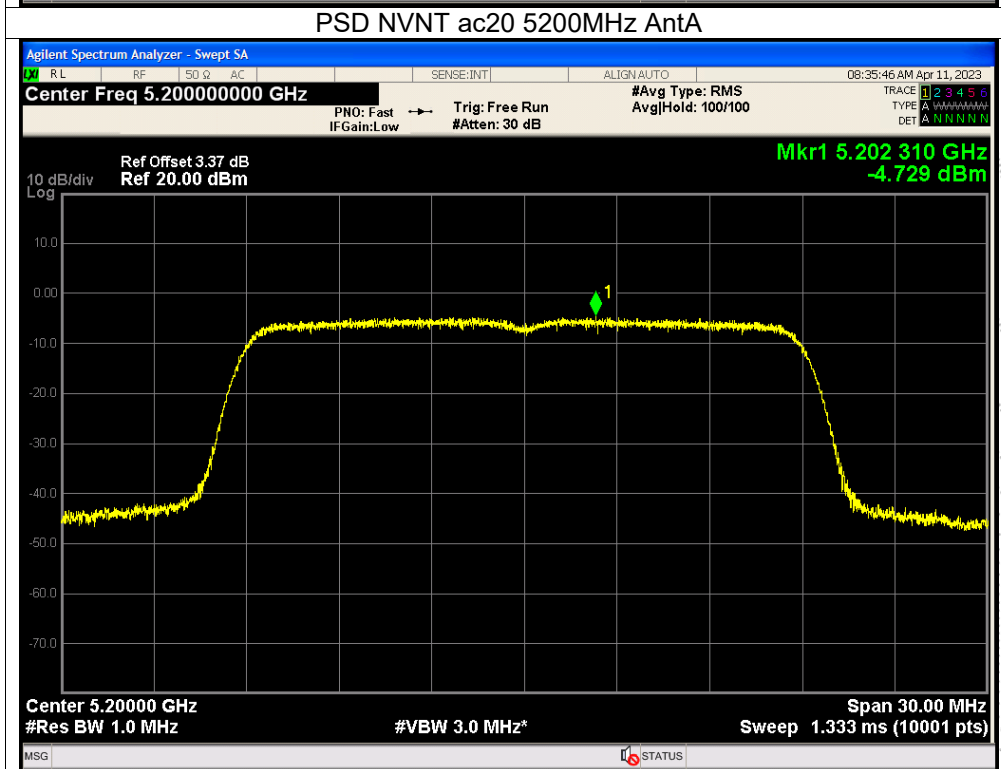
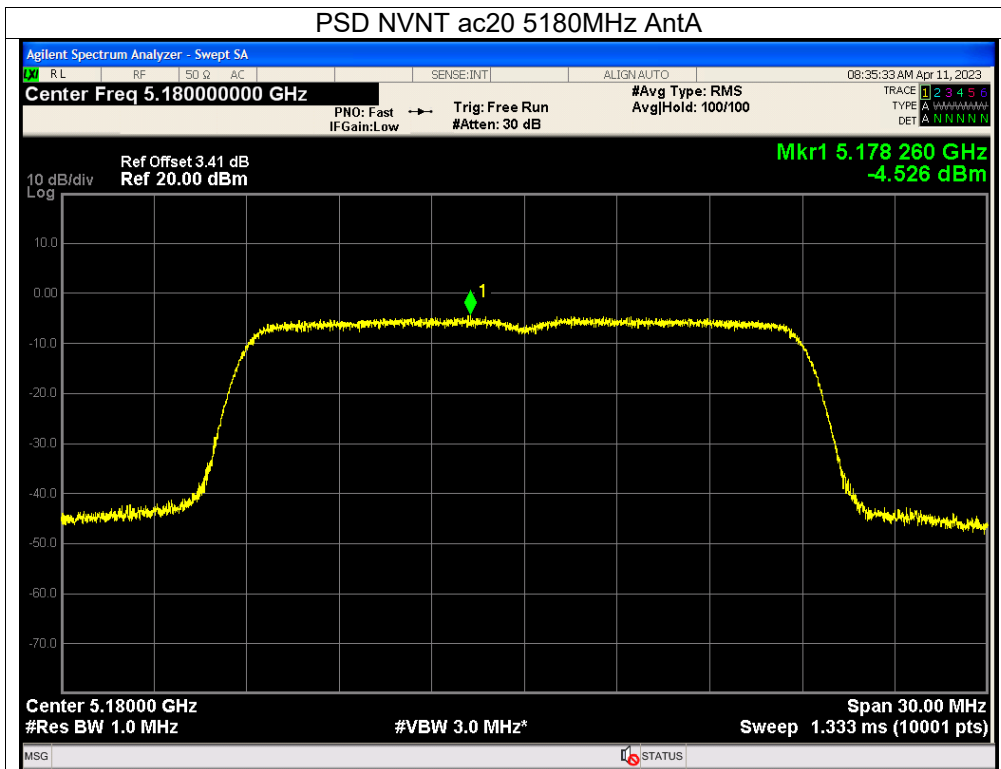
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

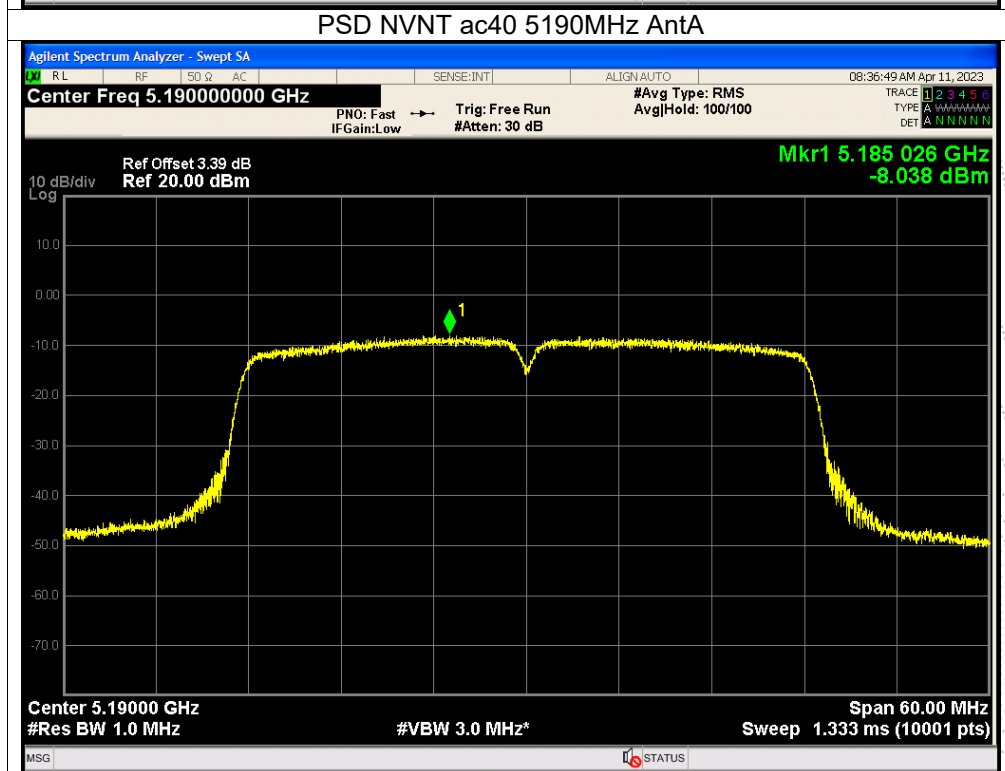
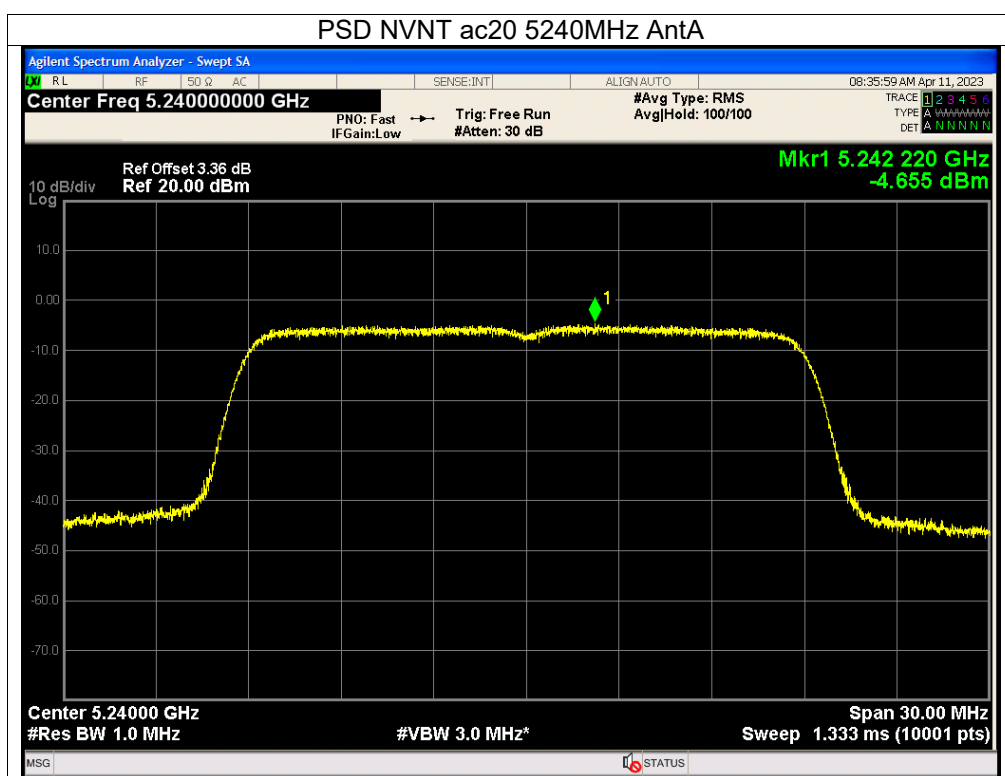


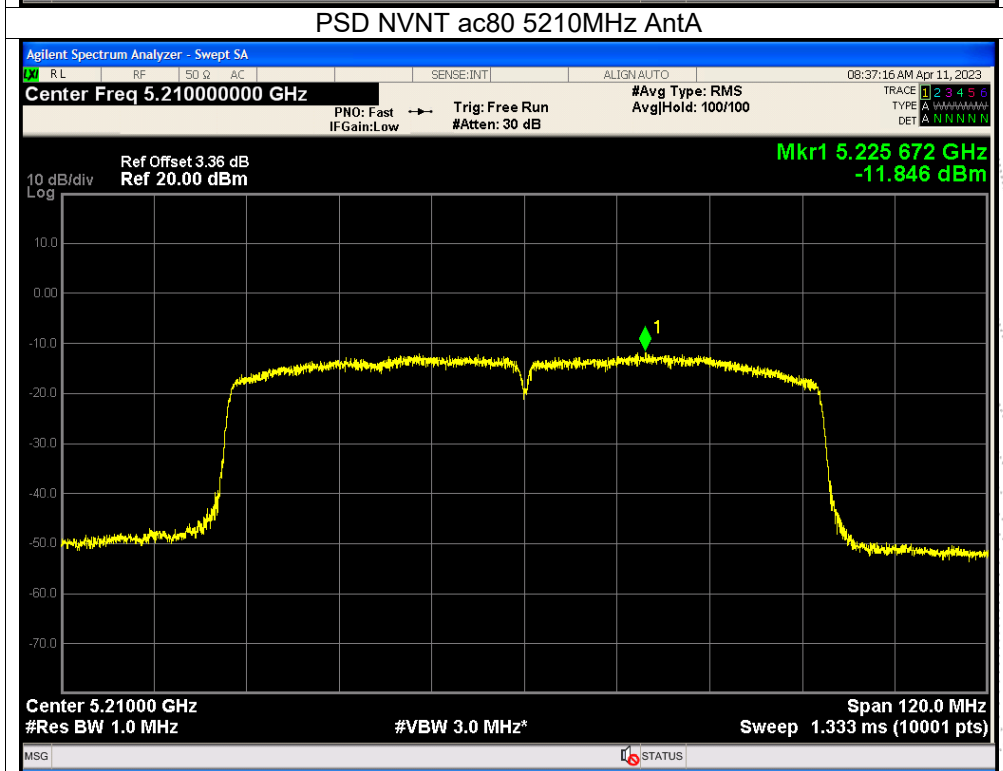
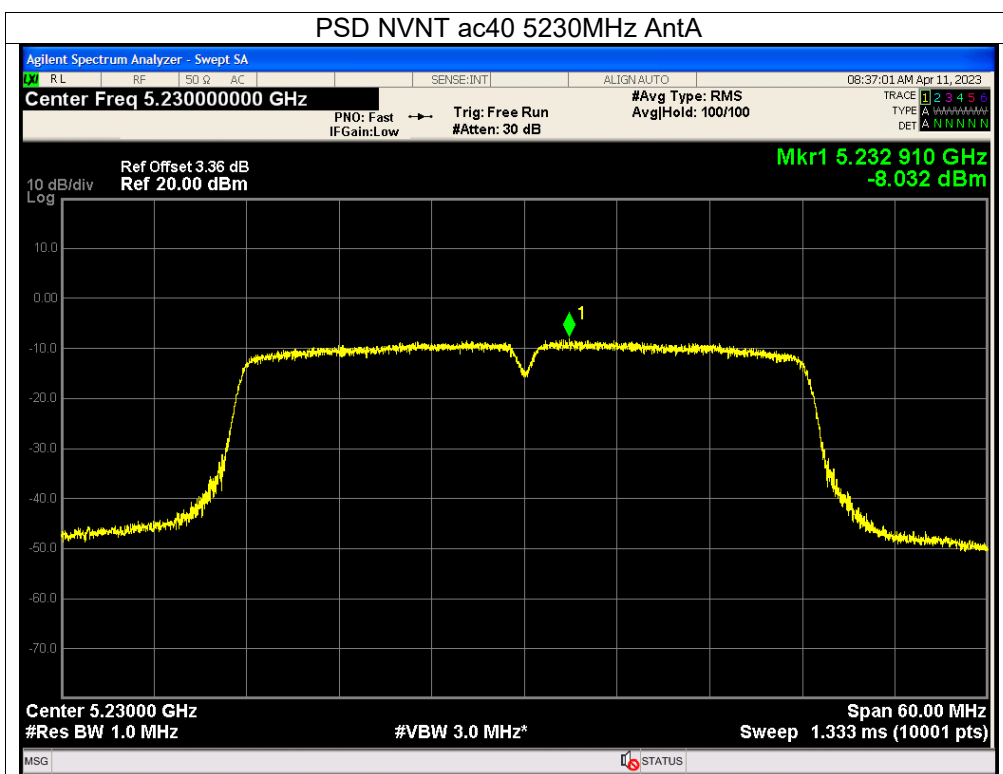












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	(5260-5320MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5260	-1.58	-2.2	/	11	Pass
NVNT	a	5280	-1.66	-2.26	/	11	Pass
NVNT	a	5320	-2.31	-2.72	/	11	Pass
NVNT	n20	5260	-4.04	-4.42	-1.22	7.03	Pass
NVNT	n20	5280	-4.04	-4.69	-1.34	7.03	Pass
NVNT	n20	5320	-4.91	-5.02	-1.95	7.03	Pass
NVNT	n40	5270	-9.67	-9.45	-6.55	7.03	Pass
NVNT	n40	5310	-9.65	-8.81	-6.20	7.03	Pass
NVNT	ac20	5260	-4.64	-4.9	-1.76	7.03	Pass
NVNT	ac20	5280	-4.69	-4.94	-1.80	7.03	Pass
NVNT	ac20	5320	-5.36	-5.63	-2.48	7.03	Pass
NVNT	ac40	5270	-9.23	-8.92	-6.06	7.03	Pass
NVNT	ac40	5310	-9.56	-9.18	-6.36	7.03	Pass
NVNT	ac80	5290	-12.99	-12.11	-9.52	7.03	Pass

Note:

Antenna A gain:6.96 dBi, Antenna B gain: 6.96 dBi, Directional gain=[GainANT + 10 log(NANT/NSS) dBi]
=9.97 dBi>6dBi

Limit=11-(9.97-6)=7.03 dBi

Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

