

TEST REPORT

Report No.: BCTC2204598218-2E

Applicant: REOLINK INNOVATION LIMITED

Product Name: WiFi IP Camera

Model/Type
reference: RLC-511WA

Tested Date: 2022-04-02 to 2022-04-18

Issued Date: 2022-04-19



Shenzhen BCTC Testing Co., Ltd.



FCC ID:2AYHE-2204E

Product Name: WiFi IP Camera

Trademark: 

Model/Type Ref.: RLC-511WA

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

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Sample Received Date: 2022-04-02

Sample tested Date: 2022-04-02 to 2022-04-18

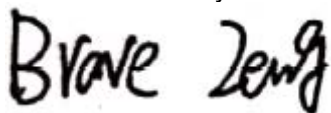
Issue Date: 2022-04-19

Report No.: BCTC2204598218-2E

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

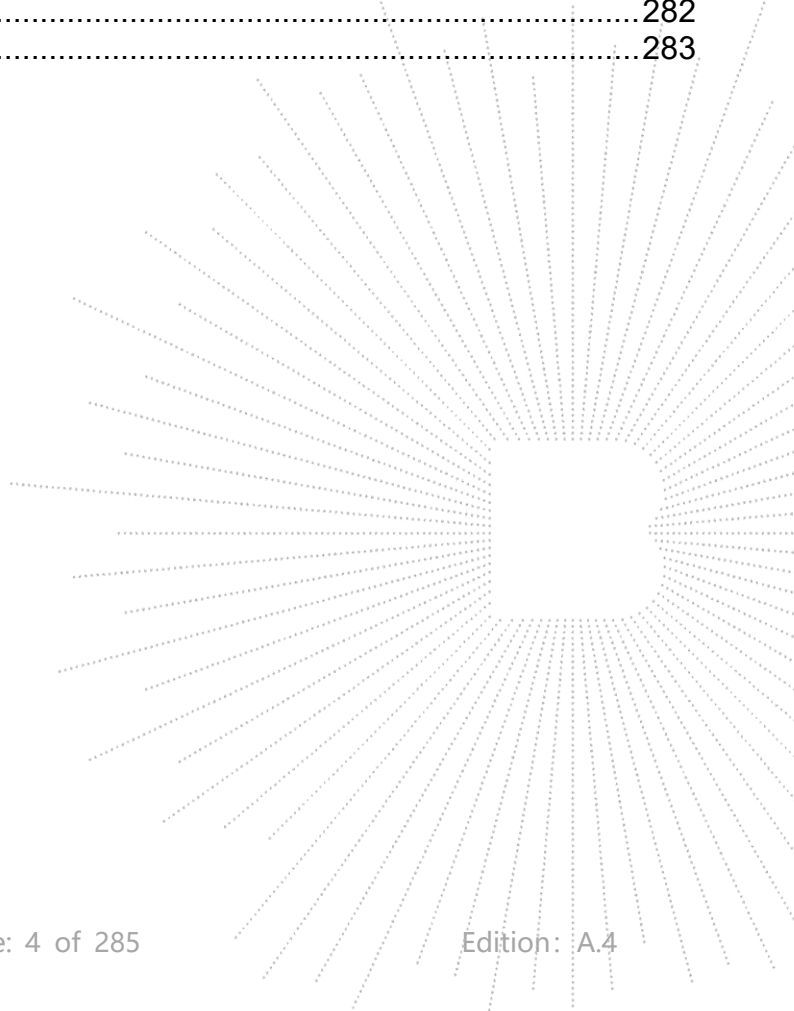
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2204598218-2E	2022-04-19	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)(1) 15.407 (b)(4) 15.407 (b)(6)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(5) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

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

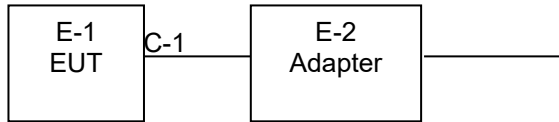
4.1 Product Information

Model/Type Ref.:	RLC-511WA
Model differences:	N/A
Hardware Version:	N25C06_V100
Software Version:	710_22011361
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); 5410-5670MHz 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:	External antenna*2
Antenna Gain:	5.1G: Antenna A & B: 2.89 dBi 5.3G: Antenna A & B: 2.89 dBi 5.6G: Antenna A & B: 2.89 dBi 5.8G: Antenna A & B: 2.89 dBi
Ratings:	AC 120V/60Hz
Adapter:	Model: DCT12W120100US-B0 Input:100-240V~50/60Hz 0.3A max Output: DC 12.0V 1.0A 12.0W

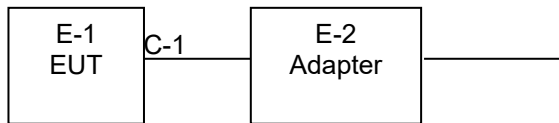
4.2 Test Setup Configuration

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	Ref. the P2	RLC-511WA	N/A	EUT
E-2	Adapter	N/A	DCT12W120100US-B0	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
	138	5690		
(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/ CH120/ 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

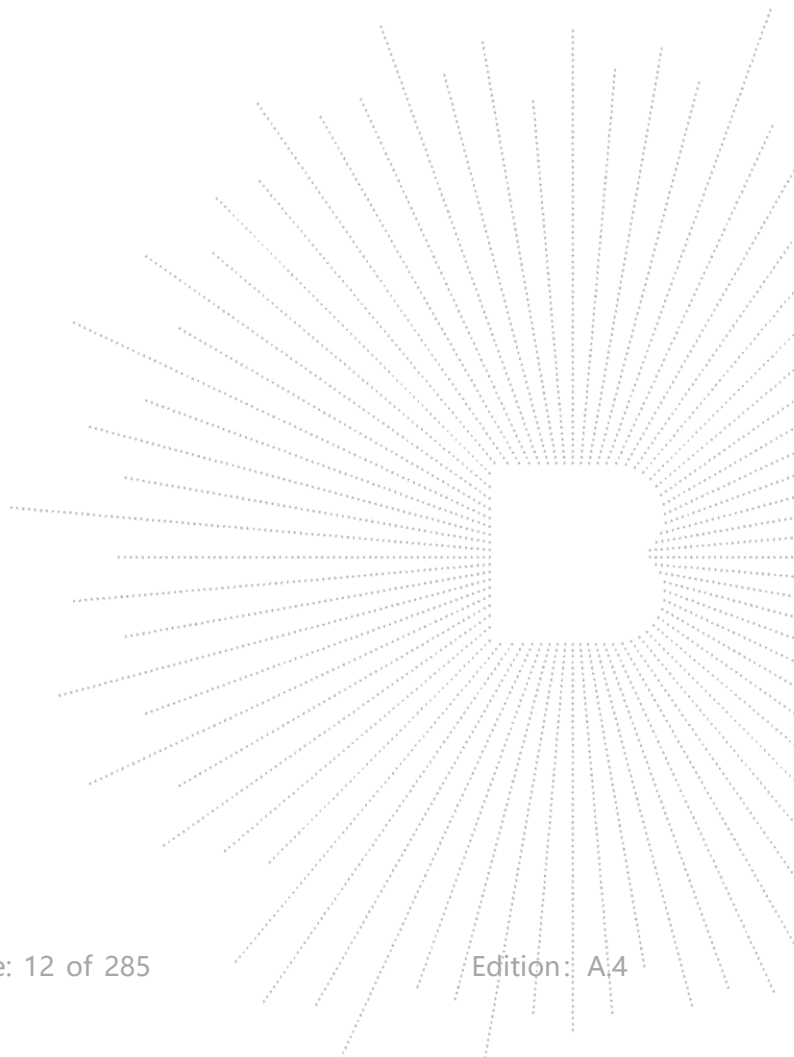
4.7 Antenna

5.1G&5.3G&5.6G&5.8G

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	External antenna	2.89	N/A
B	N/A	N/A	External antenna	2.89	N/A

EUT has two External antennas with Max gain GANT 2.89dBi 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 5.90 dBi
- 2)For power measurements,
 The Array gain=0 for $\text{NANT} \leq 4$,
 So the directional gain for Power measurements is 2.89dBi



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, Tangwei, 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
IC Registered No.: 23583

5.2 Test Instrument Used

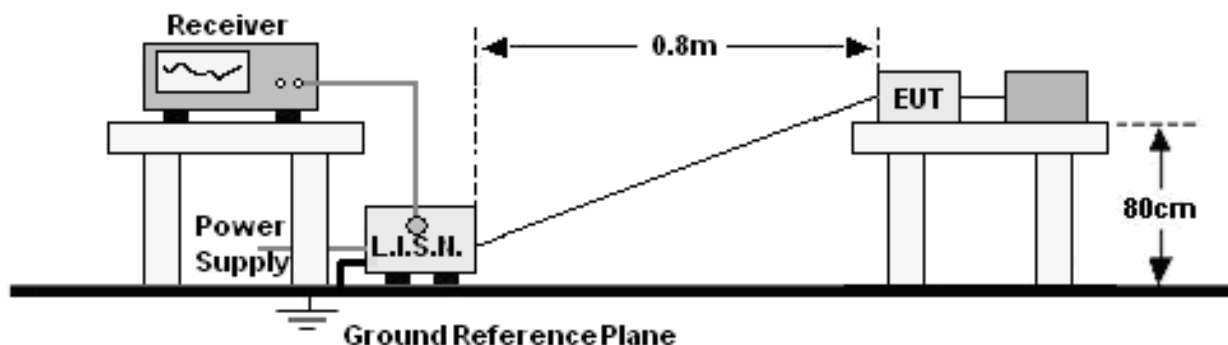
Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 28, 2021	May 27, 2022

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A	\	May 28, 2021	May 27, 2022
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	\	May 28, 2021	May 27, 2022

Radiated emissions Test (966 chamber)					
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 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	Jun. 01, 2021	May 31, 2022
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 02, 2021	Jun. 01, 2022
Horn Antenn(18GHz -40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	Jun. 14, 2022
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna(9kHz -30MHz)	Schwarzbeck	FMZB1519B	00014	Jun. 02, 2021	Jun. 01, 2022
RF cables1(9kHz- 30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-00 08	May 28, 2021	May 27, 2022
RF cables2(30MH z-1GHz)	Huber+Suhnar	30MHz-1GH z	1486150	May 28, 2021	May 27, 2022
RF cables3(1GHz- 40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A	\	May 28, 2021	May 27, 2022
Signal Analyzer20kHz -26.5GHz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	\	May 28, 2021	May 27, 2022
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

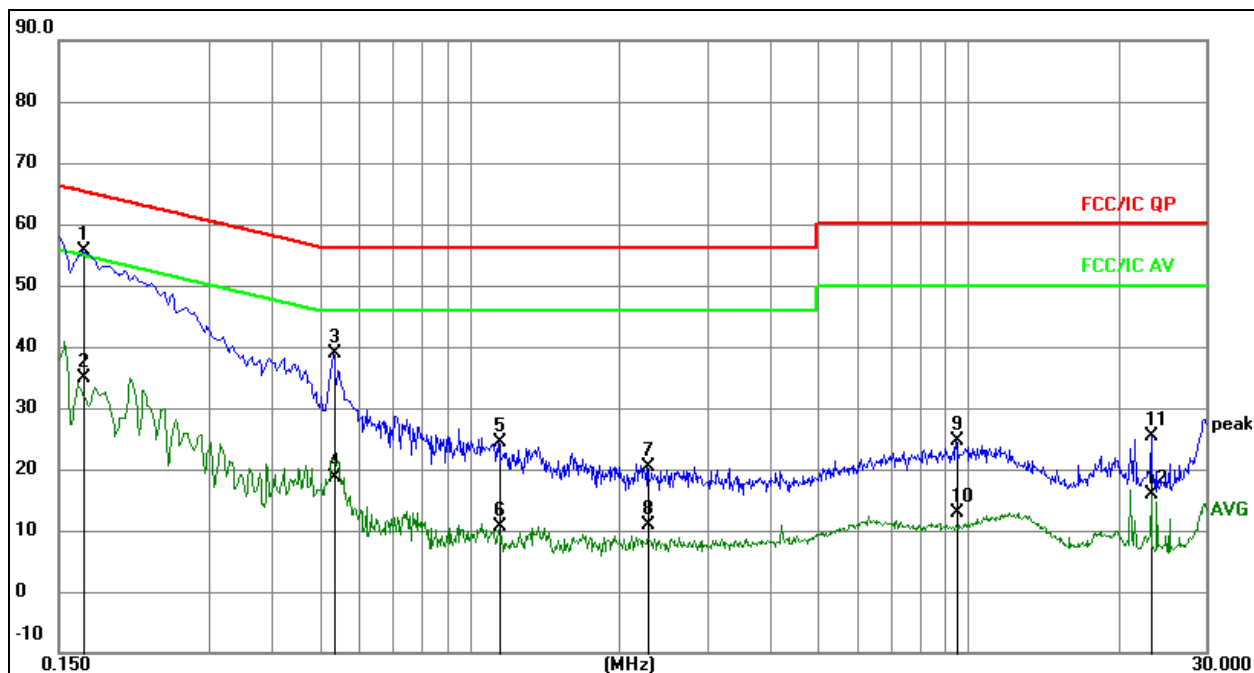
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak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

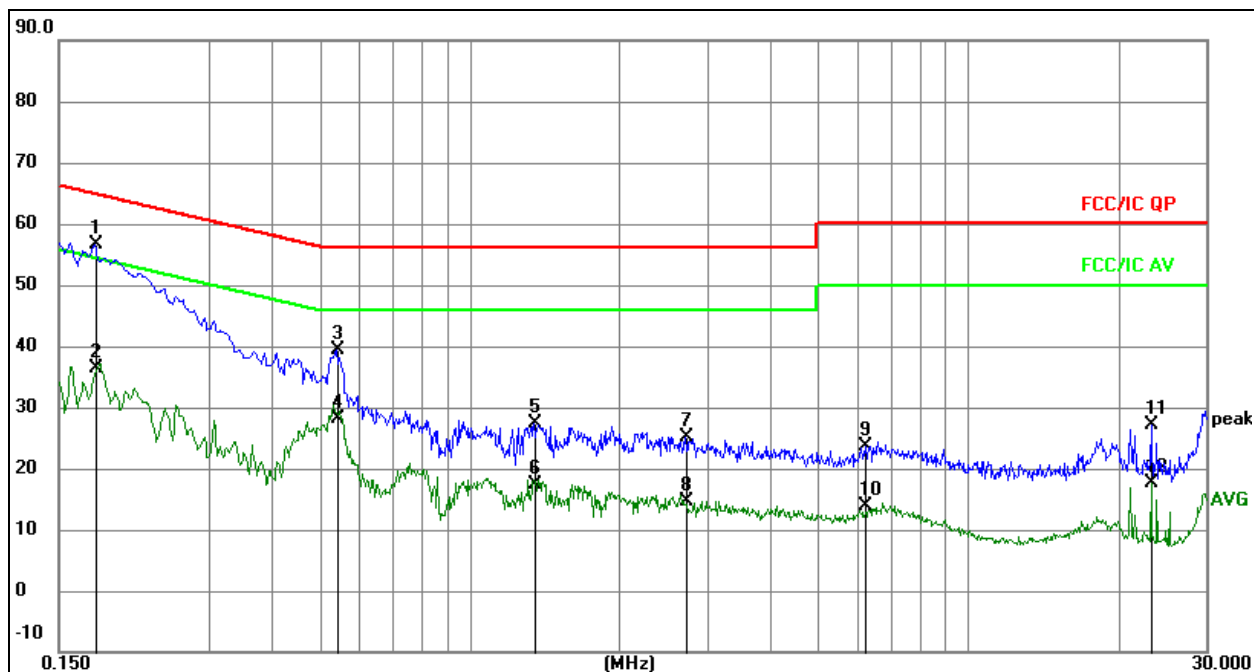


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1	*	0.1680	35.92	19.60	55.52	65.06	-9.54	QP
2		0.1680	15.33	19.60	34.93	55.06	-20.13	AVG
3		0.5325	19.24	19.61	38.85	56.00	-17.15	QP
4		0.5325	-1.08	19.61	18.53	46.00	-27.47	AVG
5		1.1445	4.69	19.62	24.31	56.00	-31.69	QP
6		1.1445	-9.01	19.62	10.61	46.00	-35.39	AVG
7		2.2740	0.71	19.63	20.34	56.00	-35.66	QP
8		2.2740	-8.77	19.63	10.86	46.00	-35.14	AVG
9		9.4920	4.81	19.78	24.59	60.00	-35.41	QP
10		9.4920	-6.85	19.78	12.93	50.00	-37.07	AVG
11		23.3564	5.66	19.73	25.39	60.00	-34.61	QP
12		23.3564	-3.94	19.73	15.79	50.00	-34.21	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase:	N
Test Voltage:	AC120V/60Hz	Test Mode:	Mode 4



Remark:

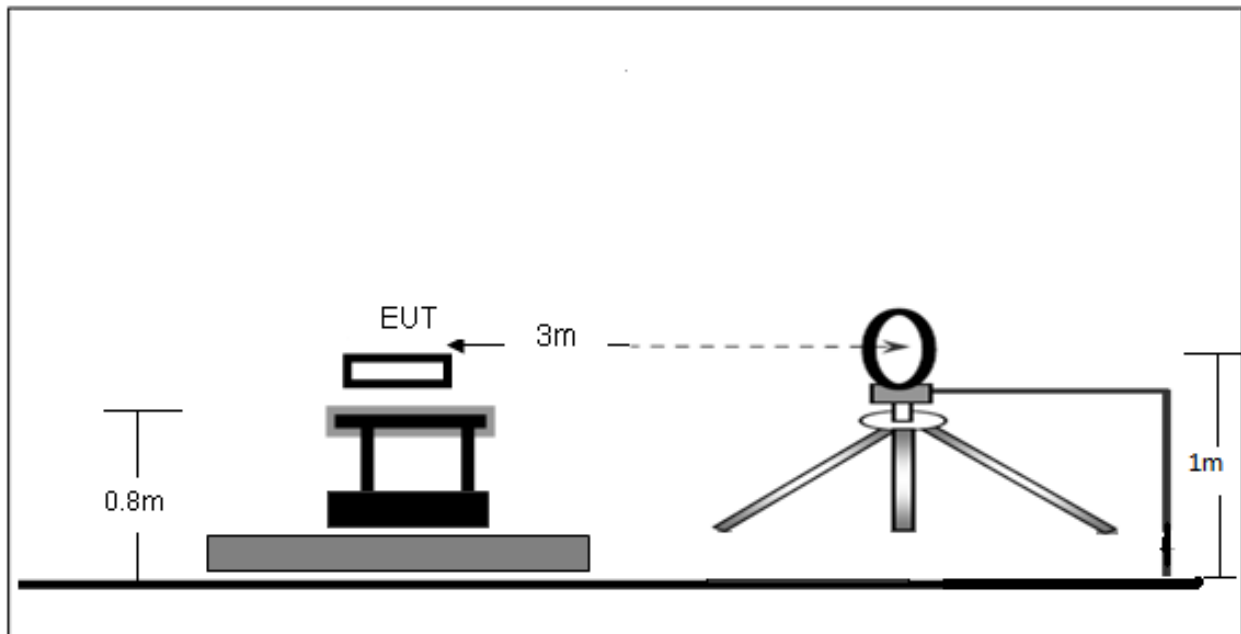
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1768	36.92	19.60	56.52	64.63	-8.11	QP
2		0.1768	16.88	19.60	36.48	54.63	-18.15	AVG
3		0.5407	19.68	19.61	39.29	56.00	-16.71	QP
4		0.5407	8.53	19.61	28.14	46.00	-17.86	AVG
5		1.3450	7.83	19.62	27.45	56.00	-28.55	QP
6		1.3450	-2.17	19.62	17.45	46.00	-28.55	AVG
7		2.7068	5.43	19.64	25.07	56.00	-30.93	QP
8		2.7068	-4.95	19.64	14.69	46.00	-31.31	AVG
9		6.2189	3.99	19.72	23.71	60.00	-36.29	QP
10		6.2189	-5.91	19.72	13.81	50.00	-36.19	AVG
11		23.2633	7.39	19.73	27.12	60.00	-32.88	QP
12		23.2633	-2.05	19.73	17.68	50.00	-32.32	AVG

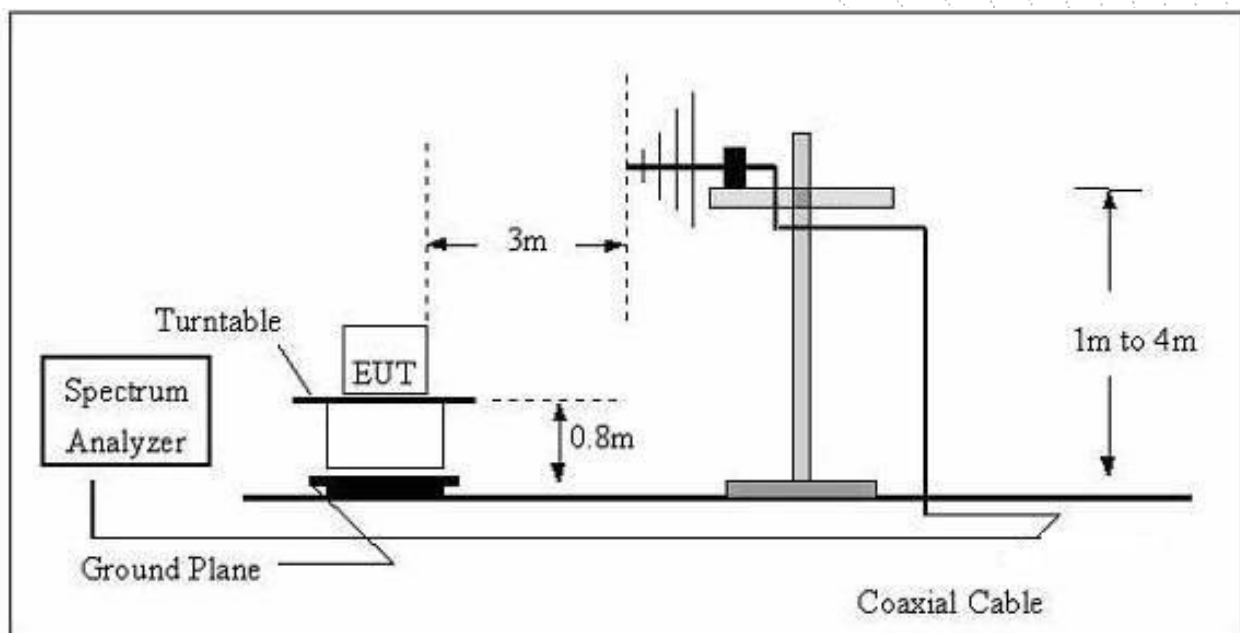
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

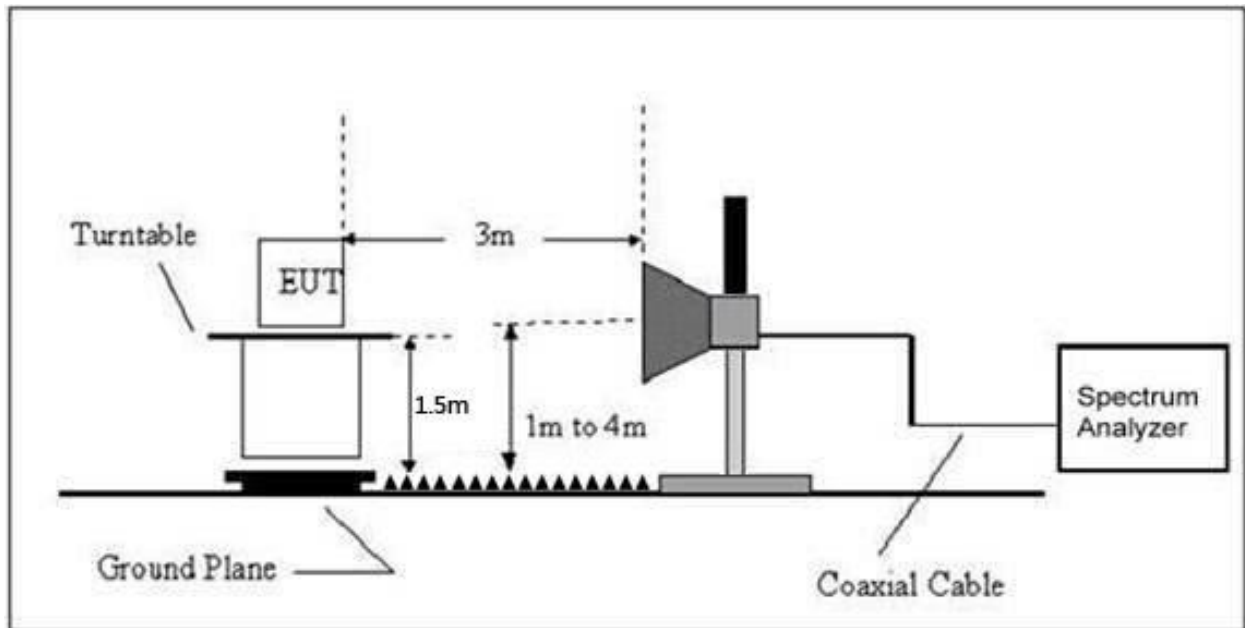
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	AC120V/60Hz
Test Mode:	Mode 4	Polarization:	--

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

Note:

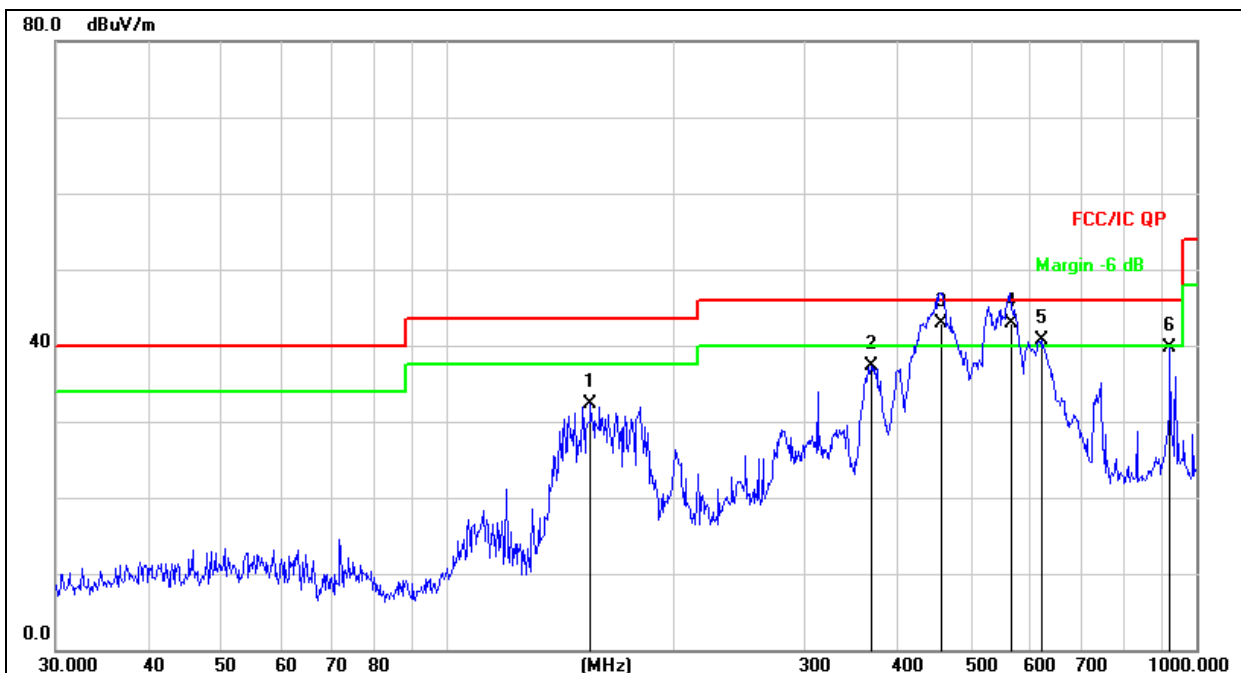
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC120V/60Hz
Test Mode :	Mode 4	Polarization :	Horizontal

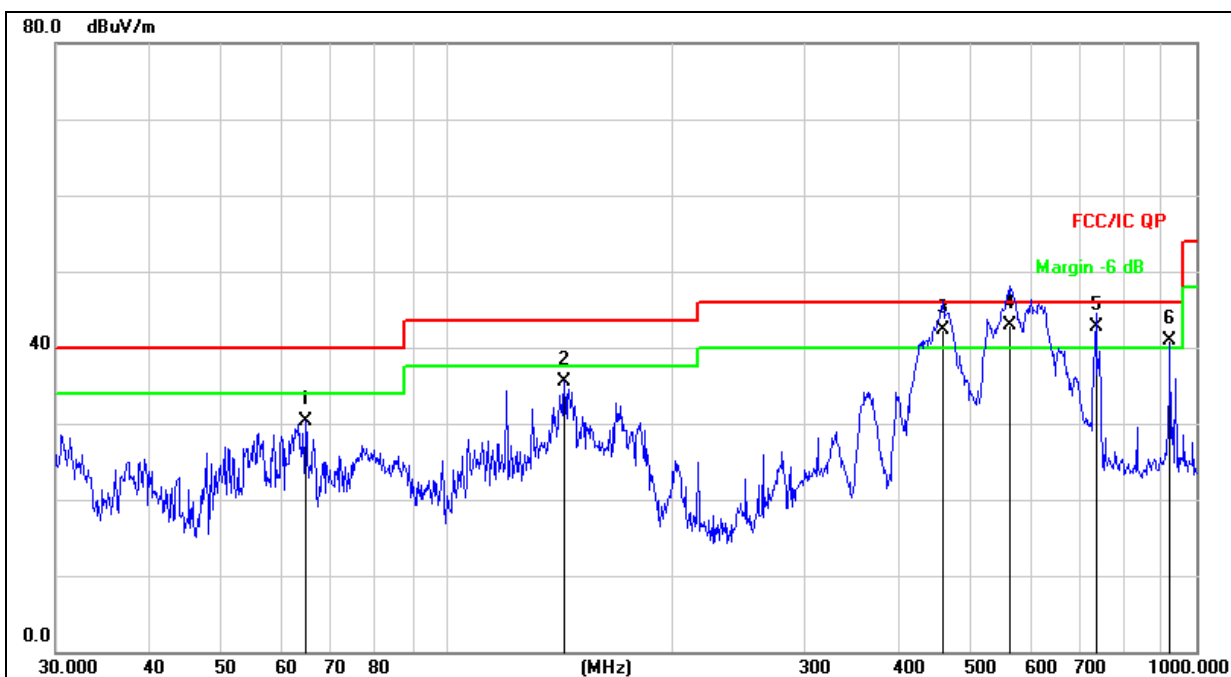


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		155.3644	51.52	-19.16	32.36	43.50	-11.14	QP
2		368.1116	49.11	-11.82	37.29	46.00	-8.71	QP
3	*	455.6658	52.80	-9.85	42.95	46.00	-3.05	QP
4	!	566.6984	50.10	-7.29	42.81	46.00	-3.19	QP
5	!	620.7096	47.29	-6.64	40.65	46.00	-5.35	QP
6		922.5157	41.01	-1.32	39.69	46.00	-6.31	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC120V/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.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		64.6594	47.20	-16.97	30.23	40.00	-9.77	QP
2		143.3261	54.48	-19.07	35.41	43.50	-8.09	QP
3	!	458.0554	52.11	-9.80	42.31	46.00	-3.69	QP
4	*	562.3824	50.20	-7.39	42.81	46.00	-3.19	QP
5	!	734.4913	47.25	-4.59	42.66	46.00	-3.34	QP
6	!	922.5157	42.15	-1.32	40.83	46.00	-5.17	QP

Between 1GHz – 40GHz

Test Mode :	TX(5.1G) - 802.11a
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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	4434.139	60.94	5.94	35.40	44.00	58.28	68.2	-9.92	PK
V	4434.139	43.24	5.94	35.40	44.00	40.58	54	-13.42	AV
V	10360.149	60.95	8.46	39.75	44.50	64.66	68.2	-3.54	PK
V	10360.149	43.82	8.46	39.75	44.50	47.53	54	-6.47	AV
V	15540.187	62.25	10.12	38.80	44.10	67.07	74	-6.93	PK
V	15540.187	43.83	10.12	38.80	42.70	50.05	54	-3.95	AV
H	4434.013	63.99	5.94	35.18	44.00	61.11	68.2	-7.09	PK
H	4434.013	43.47	5.94	35.18	44.00	40.59	54	-13.41	AV
H	10360.071	54.77	8.46	38.71	44.50	57.44	68.2	-10.76	PK
H	10360.071	40.45	8.46	38.71	44.50	43.12	54	-10.88	AV
H	15540.126	54.91	10.12	38.38	44.10	59.31	74	-14.69	PK
H	15540.126	41.53	10.12	38.38	44.10	45.93	54	-8.07	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.163	60.12	6.48	36.35	44.05	58.90	74	-15.10	PK
V	4592.163	43.81	6.48	36.35	44.05	42.59	54	-11.41	AV
V	10400.019	62.08	8.47	37.88	44.51	63.92	68.2	-4.28	PK
V	10400.019	43.46	8.47	37.88	44.51	45.30	54	-8.70	AV
V	15600.018	61.38	10.12	38.80	44.10	66.20	74	-7.80	PK
V	15600.018	43.26	10.12	38.80	42.70	49.48	54	-4.52	AV
H	4592.039	60.19	6.48	36.37	44.05	58.99	74	-15.01	PK
H	4592.039	43.31	6.48	36.37	44.05	42.11	54	-11.89	AV
H	10400.169	51.18	8.47	38.64	44.50	53.79	68.2	-14.41	PK
H	10400.169	44.38	8.47	38.64	44.50	46.99	54	-7.01	AV
H	15600.043	53.57	10.12	38.38	44.10	57.97	74	-16.03	PK
H	15600.043	40.22	10.12	38.38	44.10	44.62	54	-9.38	AV
High Channel (5240 MHz)-Above 1G									
V	4739.155	62.05	7.10	37.24	43.50	62.89	74	-11.11	PK
V	4739.155	43.23	7.10	37.24	43.50	44.07	54	-9.93	AV
V	10480.090	62.93	8.46	37.68	44.50	64.57	68.2	-3.63	PK
V	10480.090	43.23	8.46	37.68	44.50	44.87	54	-9.13	AV
V	15720.136	64.61	10.12	38.80	44.10	69.43	74	-4.57	PK
V	15720.136	43.21	10.12	38.80	42.70	49.43	54	-4.57	AV
H	4739.009	62.71	7.10	37.24	43.50	63.55	74	-10.45	PK
H	4739.009	43.86	7.10	37.24	43.50	44.70	54	-9.30	AV
H	10480.173	53.30	8.46	38.57	44.50	55.83	68.2	-12.37	PK
H	10480.173	43.84	8.46	38.57	44.50	46.37	54	-7.63	AV
H	15720.041	52.97	10.12	38.38	44.10	57.37	74	-16.63	PK
H	15720.041	42.80	10.12	38.38	44.10	47.20	54	-6.80	AV

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

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

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

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

The worst case is Antenna A.

Test Mode :	TX(5.1G) - 802.11n-HT20
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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	4434.083	62.09	5.94	35.40	44.00	59.43	68.2	-8.77	PK
V	4434.083	43.96	5.94	35.40	44.00	41.30	54	-12.70	AV
V	10360.157	62.42	8.46	39.75	44.50	66.13	68.2	-2.07	PK
V	10360.157	43.12	8.46	39.75	44.50	46.83	54	-7.17	AV
V	15540.079	60.95	10.12	38.80	44.10	65.77	74	-8.23	PK
V	15540.079	43.67	10.12	38.80	42.70	49.89	54	-4.11	AV
H	4434.135	63.95	5.94	35.18	44.00	61.07	68.2	-7.13	PK
H	4434.135	43.14	5.94	35.18	44.00	40.26	54	-13.74	AV
H	10360.012	54.63	8.46	38.71	44.50	57.30	68.2	-10.90	PK
H	10360.012	44.05	8.46	38.71	44.50	46.72	54	-7.28	AV
H	15540.022	53.29	10.12	38.38	44.10	57.69	74	-16.31	PK
H	15540.022	44.53	10.12	38.38	44.10	48.93	54	-5.07	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.081	62.19	6.48	36.35	44.05	60.97	74	-13.03	PK
V	4592.081	43.41	6.48	36.35	44.05	42.19	54	-11.81	AV
V	10400.183	61.33	8.47	37.88	44.51	63.17	68.2	-5.03	PK
V	10400.183	43.51	8.47	37.88	44.51	45.35	54	-8.65	AV
V	15600.047	62.57	10.12	38.80	44.10	67.39	74	-6.61	PK
V	15600.047	43.25	10.12	38.80	42.70	49.47	54	-4.53	AV
H	4592.147	63.24	6.48	36.37	44.05	62.04	74	-11.96	PK
H	4592.147	43.98	6.48	36.37	44.05	42.78	54	-11.22	AV
H	10400.128	53.12	8.47	38.64	44.50	55.73	68.2	-12.47	PK
H	10400.128	44.62	8.47	38.64	44.50	47.23	54	-6.77	AV
H	15600.162	53.81	10.12	38.38	44.10	58.21	74	-15.79	PK
H	15600.162	44.26	10.12	38.38	44.10	48.66	54	-5.34	AV
High Channel (5240 MHz)-Above 1G									
V	4739.041	62.33	7.10	37.24	43.50	63.17	74	-10.83	PK
V	4739.041	43.29	7.10	37.24	43.50	44.13	54	-9.87	AV
V	10480.179	62.96	8.46	37.68	44.50	64.60	68.2	-3.60	PK
V	10480.179	43.31	8.46	37.68	44.50	44.95	54	-9.05	AV
V	15720.174	62.84	10.12	38.80	44.10	67.66	74	-6.34	PK
V	15720.174	43.25	10.12	38.80	42.70	49.47	54	-4.53	AV
H	4739.001	61.65	7.10	37.24	43.50	62.49	74	-11.51	PK
H	4739.001	43.33	7.10	37.24	43.50	44.17	54	-9.83	AV
H	10480.046	53.94	8.46	38.57	44.50	56.47	68.2	-11.73	PK
H	10480.046	41.73	8.46	38.57	44.50	44.26	54	-9.74	AV
H	15720.190	53.06	10.12	38.38	44.10	57.46	74	-16.54	PK
H	15720.190	43.70	10.12	38.38	44.10	48.10	54	-5.90	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode :	TX(5.1G) - 802.11n-HT40
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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	4434.103	62.13	5.94	35.40	44.00	59.47	68.2	-8.73	PK
V	4434.103	43.46	5.94	35.40	44.00	40.80	54	-13.20	AV
V	10380.150	60.08	8.46	39.75	44.50	63.79	68.2	-4.41	PK
V	10380.150	43.48	8.46	39.75	44.50	47.19	54	-6.81	AV
V	15570.091	64.97	10.12	38.80	44.10	69.79	74	-4.21	PK
V	15570.091	43.60	10.12	38.80	42.70	49.82	54	-4.18	AV
H	4434.075	60.91	5.94	35.18	44.00	58.03	74	-15.97	PK
H	4434.075	43.68	5.94	35.18	44.00	40.80	54	-13.20	AV
H	10380.197	54.08	8.46	38.71	44.50	56.75	68.2	-11.45	PK
H	10380.197	41.39	8.46	38.71	44.50	44.06	54	-9.94	AV
H	15570.044	52.48	10.12	38.38	44.10	56.88	74	-17.12	PK
H	15570.044	43.58	10.12	38.38	44.10	47.98	54	-6.02	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.192	60.59	6.48	36.35	44.05	59.37	68.2	-8.83	PK
V	4739.192	43.44	6.48	36.35	44.05	42.22	54	-11.78	AV
V	10460.179	60.78	8.47	37.88	44.51	62.62	68.2	-5.58	PK
V	10460.179	43.67	8.47	37.88	44.51	45.51	54	-8.49	AV
V	15690.196	64.11	10.12	38.80	44.10	68.93	74	-5.07	PK
V	15690.196	43.24	10.12	38.80	42.70	49.46	54	-4.54	AV
H	4739.104	61.87	6.48	36.37	44.05	60.67	68.2	-7.53	PK
H	4739.104	43.84	6.48	36.37	44.05	42.64	54	-11.36	AV
H	10460.125	52.74	8.47	38.64	44.50	55.35	68.2	-12.85	PK
H	10460.125	41.26	8.47	38.64	44.50	43.87	54	-10.13	AV
H	15690.160	52.04	10.12	38.38	44.10	56.44	74	-17.56	PK
H	15690.160	44.30	10.12	38.38	44.10	48.70	54	-5.30	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
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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	4434.030	61.74	5.94	35.40	44.00	59.08	68.2	-9.12	PK
V	4434.030	43.03	5.94	35.40	44.00	40.37	54	-13.63	AV
V	10360.187	60.33	8.46	39.75	44.50	64.04	68.2	-4.16	PK
V	10360.187	43.91	8.46	39.75	44.50	47.62	54	-6.38	AV
V	15540.079	61.15	10.12	38.80	44.10	65.97	74	-8.03	PK
V	15540.079	43.89	10.12	38.80	42.70	50.11	54	-3.89	AV
H	4434.091	63.26	5.94	35.18	44.00	60.38	68.2	-7.82	PK
H	4434.091	43.60	5.94	35.18	44.00	40.72	54	-13.28	AV
H	10360.022	53.46	8.46	38.71	44.50	56.13	68.2	-12.07	PK
H	10360.022	42.95	8.46	38.71	44.50	45.62	54	-8.38	AV
H	15540.095	52.94	10.12	38.38	44.10	57.34	74	-16.66	PK
H	15540.095	40.11	10.12	38.38	44.10	44.51	54	-9.49	AV
Middle Channel (5200 MHz)-Above 1G									
V	4592.047	64.24	6.48	36.35	44.05	63.02	74	-10.98	PK
V	4592.047	43.11	6.48	36.35	44.05	41.89	54	-12.11	AV
V	10400.047	61.58	8.47	37.88	44.51	63.42	68.2	-4.78	PK
V	10400.047	43.00	8.47	37.88	44.51	44.84	54	-9.16	AV
V	15600.110	62.72	10.12	38.80	44.10	67.54	74	-6.46	PK
V	15600.110	43.28	10.12	38.80	42.70	49.50	54	-4.50	AV
H	4592.118	61.71	6.48	36.37	44.05	60.51	74	-13.49	PK
H	4592.118	43.64	6.48	36.37	44.05	42.44	54	-11.56	AV
H	10400.082	52.21	8.47	38.64	44.50	54.82	68.2	-13.38	PK
H	10400.082	43.61	8.47	38.64	44.50	46.22	54	-7.78	AV
H	15600.164	53.52	10.12	38.38	44.10	57.92	74	-16.08	PK
H	15600.164	40.17	10.12	38.38	44.10	44.57	54	-9.43	AV
High Channel (5240 MHz)-Above 1G									
V	4739.046	62.80	7.10	37.24	43.50	63.64	74	-10.36	PK
V	4739.046	43.16	7.10	37.24	43.50	44.00	54	-10.00	AV
V	10480.092	63.34	8.46	37.68	44.50	64.98	68.2	-3.22	PK
V	10480.092	43.22	8.46	37.68	44.50	44.86	54	-9.14	AV
V	15720.037	63.40	10.12	38.80	44.10	68.22	74	-5.78	PK
V	15720.037	43.95	10.12	38.80	42.70	50.17	54	-3.83	AV
H	4739.086	63.18	7.10	37.24	43.50	64.02	74	-9.98	PK
H	4739.086	43.95	7.10	37.24	43.50	44.79	54	-9.21	AV
H	10480.046	50.89	8.46	38.57	44.50	53.42	68.2	-14.78	PK
H	10480.046	40.12	8.46	38.57	44.50	42.65	54	-11.35	AV
H	15720.066	50.26	10.12	38.38	44.10	54.66	74	-19.34	PK
H	15720.066	43.50	10.12	38.38	44.10	47.90	54	-6.10	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(5.1G) - 802.11ac-HT40
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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	4434.073	61.26	5.94	35.40	44.00	58.60	68.2	-9.60	PK
V	4434.073	43.14	5.94	35.40	44.00	40.48	54	-13.52	AV
V	10380.199	61.39	8.46	39.75	44.50	65.10	68.2	-3.10	PK
V	10380.199	43.22	8.46	39.75	44.50	46.93	54	-7.07	AV
V	15570.063	61.78	10.12	38.80	44.10	66.60	74	-7.40	PK
V	15570.063	43.55	10.12	38.80	42.70	49.77	54	-4.23	AV
H	4434.007	62.54	5.94	35.18	44.00	59.66	74	-14.34	PK
H	4434.007	43.93	5.94	35.18	44.00	41.05	54	-12.95	AV
H	10380.166	52.70	8.46	38.71	44.50	55.37	68.2	-12.83	PK
H	10380.166	43.79	8.46	38.71	44.50	46.46	54	-7.54	AV
H	15570.112	52.64	10.12	38.38	44.10	57.04	74	-16.96	PK
H	15570.112	41.99	10.12	38.38	44.10	46.39	54	-7.61	AV
High Channel (5230 MHz)-Above 1G									
V	4739.058	62.01	6.48	36.35	44.05	60.79	68.2	-7.41	PK
V	4739.058	43.51	6.48	36.35	44.05	42.29	54	-11.71	AV
V	10460.122	61.30	8.47	37.88	44.51	63.14	68.2	-5.06	PK
V	10460.122	43.38	8.47	37.88	44.51	45.22	54	-8.78	AV
V	15690.080	61.57	10.12	38.80	44.10	66.39	74	-7.61	PK
V	15690.080	43.70	10.12	38.80	42.70	49.92	54	-4.08	AV
H	4739.083	62.87	6.48	36.37	44.05	61.67	68.2	-6.53	PK
H	4739.083	43.10	6.48	36.37	44.05	41.90	54	-12.10	AV
H	10460.015	54.73	8.47	38.64	44.50	57.34	68.2	-10.86	PK
H	10460.015	44.55	8.47	38.64	44.50	47.16	54	-6.84	AV
H	15690.189	51.41	10.12	38.38	44.10	55.81	74	-18.19	PK
H	15690.189	41.27	10.12	38.38	44.10	45.67	54	-8.33	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11ac-HT80
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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	4434.124	61.98	5.94	35.40	44.00	59.32	68.2	-8.88	PK
V	4434.124	43.97	5.94	35.40	44.00	41.31	54	-12.69	AV
V	10420.104	62.90	8.46	39.75	44.50	66.61	68.2	-1.59	PK
V	10420.104	43.52	8.46	39.75	44.50	47.23	54	-6.77	AV
V	15630.036	61.19	10.12	38.80	44.10	66.01	74	-7.99	PK
V	15630.036	43.24	10.12	38.80	42.70	49.46	54	-4.54	AV
H	4434.002	61.28	5.94	35.18	44.00	58.40	68.2	-9.80	PK
H	4434.002	43.22	5.94	35.18	44.00	40.34	54	-13.66	AV
H	10420.096	52.75	8.46	38.71	44.50	55.42	68.2	-12.78	PK
H	10420.096	40.06	8.46	38.71	44.50	42.73	54	-11.27	AV
H	15630.180	52.26	10.12	38.38	44.10	56.66	74	-17.34	PK
H	15630.180	41.18	10.12	38.38	44.10	45.58	54	-8.42	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
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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	4434.062	60.52	5.94	35.40	44.00	57.86	68.2	-10.34	PK
V	4434.062	43.34	5.94	35.40	44.00	40.68	54	-13.32	AV
V	10520.016	63.65	8.46	39.75	44.50	67.36	68.2	-0.84	PK
V	10520.016	43.66	8.46	39.75	44.50	47.37	54	-6.63	AV
V	15780.105	62.18	10.12	38.80	44.10	67.00	74	-7.00	PK
V	15780.105	43.71	10.12	38.80	42.70	49.93	54	-4.07	AV
H	4434.129	63.69	5.94	35.18	44.00	60.81	68.2	-7.39	PK
H	4434.129	43.64	5.94	35.18	44.00	40.76	54	-13.24	AV
H	10520.120	53.31	8.46	38.71	44.50	55.98	68.2	-12.22	PK
H	10520.120	42.72	8.46	38.71	44.50	45.39	54	-8.61	AV
H	15780.126	52.26	10.12	38.38	44.10	56.66	74	-17.34	PK
H	15780.126	43.22	10.12	38.38	44.10	47.62	54	-6.38	AV
middle Channel (5280 MHz)-Above 1G									
V	4592.125	63.21	6.48	36.35	44.05	61.99	74	-12.01	PK
V	4592.125	43.65	6.48	36.35	44.05	42.43	54	-11.57	AV
V	10560.145	60.18	8.47	37.88	44.51	62.02	68.2	-6.18	PK
V	10560.145	43.09	8.47	37.88	44.51	44.93	54	-9.07	AV
V	15840.027	61.34	10.12	38.80	44.10	66.16	74	-7.84	PK
V	15840.027	43.62	10.12	38.80	42.70	49.84	54	-4.16	AV
H	4592.164	62.66	6.48	36.37	44.05	61.46	74	-12.54	PK
H	4592.164	43.44	6.48	36.37	44.05	42.24	54	-11.76	AV
H	10560.003	52.31	8.47	38.64	44.50	54.92	68.2	-13.28	PK
H	10560.003	42.33	8.47	38.64	44.50	44.94	54	-9.06	AV
H	15840.001	52.84	10.12	38.38	44.10	57.24	74	-16.76	PK
H	15840.001	43.09	10.12	38.38	44.10	47.49	54	-6.51	AV
High Channel (5320 MHz)-Above 1G									
V	4739.134	60.95	7.10	37.24	43.50	61.79	74	-12.21	PK
V	4739.134	43.27	7.10	37.24	43.50	44.11	54	-9.89	AV
V	10640.047	60.36	8.46	37.68	44.50	62.00	68.2	-6.20	PK
V	10640.047	43.07	8.46	37.68	44.50	44.71	54	-9.29	AV
V	15960.005	61.42	10.12	38.80	44.10	66.24	74	-7.76	PK
V	15960.005	43.29	10.12	38.80	42.70	49.51	54	-4.49	AV
H	4739.016	62.81	7.10	37.24	43.50	63.65	74	-10.35	PK
H	4739.016	43.80	7.10	37.24	43.50	44.64	54	-9.36	AV
H	10640.186	54.56	8.46	38.57	44.50	57.09	68.2	-11.11	PK
H	10640.186	43.39	8.46	38.57	44.50	45.92	54	-8.08	AV
H	15960.009	54.73	10.12	38.38	44.10	59.13	74	-14.87	PK
H	15960.009	42.58	10.12	38.38	44.10	46.98	54	-7.02	AV

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

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

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

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

The worst case is Antenna A.

Test Mode:	TX(5.3G) - 802.11n-HT20
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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	4434.190	63.43	5.94	35.40	44.00	60.77	68.2	-7.43	PK
V	4434.190	43.51	5.94	35.40	44.00	40.85	54	-13.15	AV
V	10520.079	62.09	8.46	39.75	44.50	65.80	68.2	-2.40	PK
V	10520.079	43.34	8.46	39.75	44.50	47.05	54	-6.95	AV
V	15780.176	62.41	10.12	38.80	44.10	67.23	74	-6.77	PK
V	15780.176	43.81	10.12	38.80	42.70	50.03	54	-3.97	AV
H	4434.148	62.04	5.94	35.18	44.00	59.16	68.2	-9.04	PK
H	4434.148	43.27	5.94	35.18	44.00	40.39	54	-13.61	AV
H	10520.139	50.99	8.46	38.71	44.50	53.66	68.2	-14.54	PK
H	10520.139	40.03	8.46	38.71	44.50	42.70	54	-11.30	AV
H	15780.084	50.28	10.12	38.38	44.10	54.68	74	-19.32	PK
H	15780.084	42.75	10.12	38.38	44.10	47.15	54	-6.85	AV
middle Channel (5280 MHz)-Above 1G									
V	4592.096	61.50	6.48	36.35	44.05	60.28	74	-13.72	PK
V	4592.096	43.79	6.48	36.35	44.05	42.57	54	-11.43	AV
V	10560.012	62.99	8.47	37.88	44.51	64.83	68.2	-3.37	PK
V	10560.012	43.25	8.47	37.88	44.51	45.09	54	-8.91	AV
V	15840.172	61.56	10.12	38.80	44.10	66.38	74	-7.62	PK
V	15840.172	43.79	10.12	38.80	42.70	50.01	54	-3.99	AV
H	4592.079	63.88	6.48	36.37	44.05	62.68	74	-11.32	PK
H	4592.079	43.34	6.48	36.37	44.05	42.14	54	-11.86	AV
H	10560.157	51.93	8.47	38.64	44.50	54.54	68.2	-13.66	PK
H	10560.157	42.61	8.47	38.64	44.50	45.22	54	-8.78	AV
H	15840.127	50.28	10.12	38.38	44.10	54.68	74	-19.32	PK
H	15840.127	41.23	10.12	38.38	44.10	45.63	54	-8.37	AV
High Channel (5320 MHz)-Above 1G									
V	4739.191	61.09	7.10	37.24	43.50	61.93	74	-12.07	PK
V	4739.191	43.55	7.10	37.24	43.50	44.39	54	-9.61	AV
V	10640.100	60.39	8.46	37.68	44.50	62.03	68.2	-6.17	PK
V	10640.100	43.10	8.46	37.68	44.50	44.74	54	-9.26	AV
V	15960.095	60.87	10.12	38.80	44.10	65.69	74	-8.31	PK
V	15960.095	43.87	10.12	38.80	42.70	50.09	54	-3.91	AV
H	4739.128	62.01	7.10	37.24	43.50	62.85	74	-11.15	PK
H	4739.128	43.48	7.10	37.24	43.50	44.32	54	-9.68	AV
H	10640.007	52.45	8.46	38.57	44.50	54.98	68.2	-13.22	PK
H	10640.007	41.48	8.46	38.57	44.50	44.01	54	-9.99	AV
H	15960.084	53.16	10.12	38.38	44.10	57.56	74	-16.44	PK
H	15960.084	44.87	10.12	38.38	44.10	49.27	54	-4.73	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
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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	4434.184	61.68	5.94	35.40	44.00	59.02	68.2	-9.18	PK
V	4434.184	43.12	5.94	35.40	44.00	40.46	54	-13.54	AV
V	10540.188	60.74	8.46	39.75	44.50	64.45	68.2	-3.75	PK
V	10540.188	43.11	8.46	39.75	44.50	46.82	54	-7.18	AV
V	15810.162	62.12	10.12	38.80	44.10	66.94	74	-7.06	PK
V	15810.162	43.31	10.12	38.80	42.70	49.53	54	-4.47	AV
H	4434.127	62.91	5.94	35.18	44.00	60.03	74	-13.97	PK
H	4434.127	43.54	5.94	35.18	44.00	40.66	54	-13.34	AV
H	10540.121	54.61	8.46	38.71	44.50	57.28	68.2	-10.92	PK
H	10540.121	44.79	8.46	38.71	44.50	47.46	54	-6.54	AV
H	15810.066	50.95	10.12	38.38	44.10	55.35	74	-18.65	PK
H	15810.066	40.10	10.12	38.38	44.10	44.50	54	-9.50	AV
middle Channel (5310 MHz)-Above 1G									
V	4739.092	60.51	6.48	36.35	44.05	59.29	68.2	-8.91	PK
V	4739.092	43.04	6.48	36.35	44.05	41.82	54	-12.18	AV
V	10620.170	61.62	8.47	37.88	44.51	63.46	68.2	-4.74	PK
V	10620.170	43.83	8.47	37.88	44.51	45.67	54	-8.33	AV
V	15930.191	63.71	10.12	38.80	44.10	68.53	74	-5.47	PK
V	15930.191	43.68	10.12	38.80	42.70	49.90	54	-4.10	AV
H	4739.149	62.37	6.48	36.37	44.05	61.17	68.2	-7.03	PK
H	4739.149	43.77	6.48	36.37	44.05	42.57	54	-11.43	AV
H	10620.080	54.54	8.47	38.64	44.50	57.15	68.2	-11.05	PK
H	10620.080	41.18	8.47	38.64	44.50	43.79	54	-10.21	AV
H	15930.131	52.72	10.12	38.38	44.10	57.12	74	-16.88	PK
H	15930.131	43.15	10.12	38.38	44.10	47.55	54	-6.45	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
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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	4434.161	62.83	5.94	35.40	44.00	60.17	68.2	-8.03	PK
V	4434.161	43.63	5.94	35.40	44.00	40.97	54	-13.03	AV
V	10520.060	61.00	8.46	39.75	44.50	64.71	68.2	-3.49	PK
V	10520.060	43.32	8.46	39.75	44.50	47.03	54	-6.97	AV
V	15780.027	63.99	10.12	38.80	44.10	68.81	74	-5.19	PK
V	15780.027	43.01	10.12	38.80	42.70	49.23	54	-4.77	AV
H	4434.090	64.65	5.94	35.18	44.00	61.77	68.2	-6.43	PK
H	4434.090	43.35	5.94	35.18	44.00	40.47	54	-13.53	AV
H	10520.034	53.06	8.46	38.71	44.50	55.73	68.2	-12.47	PK
H	10520.034	44.36	8.46	38.71	44.50	47.03	54	-6.97	AV
H	15780.149	53.74	10.12	38.38	44.10	58.14	74	-15.86	PK
H	15780.149	43.60	10.12	38.38	44.10	48.00	54	-6.00	AV
middle Channel (5280 MHz)-Above 1G									
V	4592.069	63.97	6.48	36.35	44.05	62.75	74	-11.25	PK
V	4592.069	43.00	6.48	36.35	44.05	41.78	54	-12.22	AV
V	10560.151	61.46	8.47	37.88	44.51	63.30	68.2	-4.90	PK
V	10560.151	43.27	8.47	37.88	44.51	45.11	54	-8.89	AV
V	15840.068	62.42	10.12	38.80	44.10	67.24	74	-6.76	PK
V	15840.068	43.23	10.12	38.80	42.70	49.45	54	-4.55	AV
H	4592.080	60.19	6.48	36.37	44.05	58.99	74	-15.01	PK
H	4592.080	43.15	6.48	36.37	44.05	41.95	54	-12.05	AV
H	10560.162	50.25	8.47	38.64	44.50	52.86	68.2	-15.34	PK
H	10560.162	42.17	8.47	38.64	44.50	44.78	54	-9.22	AV
H	15840.199	52.54	10.12	38.38	44.10	56.94	74	-17.06	PK
H	15840.199	42.38	10.12	38.38	44.10	46.78	54	-7.22	AV
High Channel (5320 MHz)-Above 1G									
V	4739.094	60.76	7.10	37.24	43.50	61.60	74	-12.40	PK
V	4739.094	43.22	7.10	37.24	43.50	44.06	54	-9.94	AV
V	10640.091	61.05	8.46	37.68	44.50	62.69	68.2	-5.51	PK
V	10640.091	43.57	8.46	37.68	44.50	45.21	54	-8.79	AV
V	15960.039	64.94	10.12	38.80	44.10	69.76	74	-4.24	PK
V	15960.039	43.24	10.12	38.80	42.70	49.46	54	-4.54	AV
H	4739.080	61.73	7.10	37.24	43.50	62.57	74	-11.43	PK
H	4739.080	43.72	7.10	37.24	43.50	44.56	54	-9.44	AV
H	10640.099	53.97	8.46	38.57	44.50	56.50	68.2	-11.70	PK
H	10640.099	43.89	8.46	38.57	44.50	46.42	54	-7.58	AV
H	15960.070	50.38	10.12	38.38	44.10	54.78	74	-19.22	PK
H	15960.070	41.59	10.12	38.38	44.10	45.99	54	-8.01	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode :	TX(5.3G) - 802.11ac-HT40
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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	4434.038	63.22	5.94	35.40	44.00	60.56	68.2	-7.64	PK
V	4434.038	43.64	5.94	35.40	44.00	40.98	54	-13.02	AV
V	10540.024	63.09	8.46	39.75	44.50	66.80	68.2	-1.40	PK
V	10540.024	43.33	8.46	39.75	44.50	47.04	54	-6.96	AV
V	15810.041	61.67	10.12	38.80	44.10	66.49	74	-7.51	PK
V	15810.041	43.27	10.12	38.80	42.70	49.49	54	-4.51	AV
H	4434.024	64.11	5.94	35.18	44.00	61.23	74	-12.77	PK
H	4434.024	43.63	5.94	35.18	44.00	40.75	54	-13.25	AV
H	10540.036	53.77	8.46	38.71	44.50	56.44	68.2	-11.76	PK
H	10540.036	45.00	8.46	38.71	44.50	47.67	54	-6.33	AV
H	15810.181	54.73	10.12	38.38	44.10	59.13	74	-14.87	PK
H	15810.181	40.44	10.12	38.38	44.10	44.84	54	-9.16	AV
middle Channel (5310 MHz)-Above 1G									
V	4739.038	61.60	6.48	36.35	44.05	60.38	68.2	-7.82	PK
V	4739.038	43.38	6.48	36.35	44.05	42.16	54	-11.84	AV
V	10620.032	63.44	8.47	37.88	44.51	65.28	68.2	-2.92	PK
V	10620.032	43.91	8.47	37.88	44.51	45.75	54	-8.25	AV
V	15930.049	64.21	10.12	38.80	44.10	69.03	74	-4.97	PK
V	15930.049	43.03	10.12	38.80	42.70	49.25	54	-4.75	AV
H	4739.058	64.00	6.48	36.37	44.05	62.80	68.2	-5.40	PK
H	4739.058	43.79	6.48	36.37	44.05	42.59	54	-11.41	AV
H	10620.148	53.62	8.47	38.64	44.50	56.23	68.2	-11.97	PK
H	10620.148	41.23	8.47	38.64	44.50	43.84	54	-10.16	AV
H	15930.188	52.69	10.12	38.38	44.10	57.09	74	-16.91	PK
H	15930.188	42.65	10.12	38.38	44.10	47.05	54	-6.95	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 Mode.

Test Mode:	TX(5.3G) - 802.11ac-HT80
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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	4434.014	63.29	5.94	35.40	44.00	60.63	68.2	-7.57	PK
V	4434.014	43.64	5.94	35.40	44.00	40.98	54	-13.02	AV
V	10580.075	62.80	8.46	39.75	44.50	66.51	68.2	-1.69	PK
V	10580.075	43.78	8.46	39.75	44.50	47.49	54	-6.51	AV
V	15870.084	61.81	10.12	38.80	44.10	66.63	74	-7.37	PK
V	15870.084	43.28	10.12	38.80	42.70	49.50	54	-4.50	AV
H	4434.177	64.90	5.94	35.18	44.00	62.02	68.2	-6.18	PK
H	4434.177	43.56	5.94	35.18	44.00	40.68	54	-13.32	AV
H	10580.153	51.22	8.46	38.71	44.50	53.89	68.2	-14.31	PK
H	10580.153	43.31	8.46	38.71	44.50	45.98	54	-8.02	AV
H	15870.054	54.33	10.12	38.38	44.10	58.73	74	-15.27	PK
H	15870.054	40.63	10.12	38.38	44.10	45.03	54	-8.97	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11a
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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	4434.162	60.05	5.94	35.40	44.00	57.39	68.2	-10.81	PK
V	4434.162	43.99	5.94	35.40	44.00	41.33	54	-12.67	AV
V	11000.007	62.69	8.46	39.75	44.50	66.40	68.2	-1.80	PK
V	11000.007	43.95	8.46	39.75	44.50	47.66	54	-6.34	AV
V	16500.139	62.27	10.12	38.80	44.10	67.09	74	-6.91	PK
V	16500.139	43.18	10.12	38.80	42.70	49.40	54	-4.60	AV
H	4434.134	63.84	5.94	35.18	44.00	60.96	68.2	-7.24	PK
H	4434.134	43.33	5.94	35.18	44.00	40.45	54	-13.55	AV
H	11000.164	53.20	8.46	38.71	44.50	55.87	68.2	-12.33	PK
H	11000.164	43.41	8.46	38.71	44.50	46.08	54	-7.92	AV
H	16500.045	54.46	10.12	38.38	44.10	58.86	74	-15.14	PK
H	16500.045	42.27	10.12	38.38	44.10	46.67	54	-7.33	AV
Middle Channel (5600 MHz)-Above 1G									
V	4592.031	60.96	6.48	36.35	44.05	59.74	74	-14.26	PK
V	4592.031	43.78	6.48	36.35	44.05	42.56	54	-11.44	AV
V	11200.128	62.05	8.47	37.88	44.51	63.89	68.2	-4.31	PK
V	11200.128	43.95	8.47	37.88	44.51	45.79	54	-8.21	AV
V	16800.133	64.60	10.12	38.80	44.10	69.42	74	-4.58	PK
V	16800.133	43.53	10.12	38.80	42.70	49.75	54	-4.25	AV
H	4592.162	62.55	6.48	36.37	44.05	61.35	74	-12.65	PK
H	4592.162	43.58	6.48	36.37	44.05	42.38	54	-11.62	AV
H	11200.085	51.18	8.47	38.64	44.50	53.79	68.2	-14.41	PK
H	11200.085	40.04	8.47	38.64	44.50	42.65	54	-11.35	AV
H	16800.107	54.59	10.12	38.38	44.10	58.99	74	-15.01	PK
H	16800.107	44.42	10.12	38.38	44.10	48.82	54	-5.18	AV
High Channel (5700 MHz)-Above 1G									
V	4739.140	60.29	7.10	37.24	43.50	61.13	74	-12.87	PK
V	4739.140	43.73	7.10	37.24	43.50	44.57	54	-9.43	AV
V	11400.039	64.52	8.46	37.68	44.50	66.16	68.2	-2.04	PK
V	11400.039	43.86	8.46	37.68	44.50	45.50	54	-8.50	AV
V	17100.185	62.04	10.12	38.80	44.10	66.86	74	-7.14	PK
V	17100.185	43.27	10.12	38.80	42.70	49.49	54	-4.51	AV
H	4739.165	64.43	7.10	37.24	43.50	65.27	74	-8.73	PK
H	4739.165	43.62	7.10	37.24	43.50	44.46	54	-9.54	AV
H	11400.084	53.57	8.46	38.57	44.50	56.10	68.2	-12.10	PK
H	11400.084	44.67	8.46	38.57	44.50	47.20	54	-6.80	AV
H	17100.029	50.95	10.12	38.38	44.10	55.35	74	-18.65	PK
H	17100.029	43.45	10.12	38.38	44.10	47.85	54	-6.15	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
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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	4434.144	63.36	5.94	35.40	44.00	60.70	68.2	-7.50	PK
V	4434.144	43.35	5.94	35.40	44.00	40.69	54	-13.31	AV
V	11000.057	62.37	8.46	39.75	44.50	66.08	68.2	-2.12	PK
V	11000.057	43.06	8.46	39.75	44.50	46.77	54	-7.23	AV
V	16500.136	62.35	10.12	38.80	44.10	67.17	74	-6.83	PK
V	16500.136	43.74	10.12	38.80	42.70	49.96	54	-4.04	AV
H	4434.188	63.93	5.94	35.18	44.00	61.05	68.2	-7.15	PK
H	4434.188	43.32	5.94	35.18	44.00	40.44	54	-13.56	AV
H	11000.096	50.62	8.46	38.71	44.50	53.29	68.2	-14.91	PK
H	11000.096	44.60	8.46	38.71	44.50	47.27	54	-6.73	AV
H	16500.126	53.91	10.12	38.38	44.10	58.31	74	-15.69	PK
H	16500.126	40.99	10.12	38.38	44.10	45.39	54	-8.61	AV
Middle Channel (5600 MHz)-Above 1G									
V	4592.058	60.35	6.48	36.35	44.05	59.13	74	-14.87	PK
V	4592.058	43.26	6.48	36.35	44.05	42.04	54	-11.96	AV
V	11200.165	61.15	8.47	37.88	44.51	62.99	68.2	-5.21	PK
V	11200.165	43.36	8.47	37.88	44.51	45.20	54	-8.80	AV
V	16800.012	63.17	10.12	38.80	44.10	67.99	74	-6.01	PK
V	16800.012	43.29	10.12	38.80	42.70	49.51	54	-4.49	AV
H	4592.029	64.45	6.48	36.37	44.05	63.25	74	-10.75	PK
H	4592.029	43.01	6.48	36.37	44.05	41.81	54	-12.19	AV
H	11200.106	53.48	8.47	38.64	44.50	56.09	68.2	-12.11	PK
H	11200.106	43.83	8.47	38.64	44.50	46.44	54	-7.56	AV
H	16800.093	52.08	10.12	38.38	44.10	56.48	74	-17.52	PK
H	16800.093	42.54	10.12	38.38	44.10	46.94	54	-7.06	AV
High Channel (5700 MHz)-Above 1G									
V	4739.129	63.93	7.10	37.24	43.50	64.77	74	-9.23	PK
V	4739.129	43.41	7.10	37.24	43.50	44.25	54	-9.75	AV
V	11400.105	64.07	8.46	37.68	44.50	65.71	68.2	-2.49	PK
V	11400.105	43.36	8.46	37.68	44.50	45.00	54	-9.00	AV
V	17100.144	64.58	10.12	38.80	44.10	69.40	74	-4.60	PK
V	17100.144	43.50	10.12	38.80	42.70	49.72	54	-4.28	AV
H	4739.147	61.22	7.10	37.24	43.50	62.06	74	-11.94	PK
H	4739.147	43.05	7.10	37.24	43.50	43.89	54	-10.11	AV
H	11400.166	51.53	8.46	38.57	44.50	54.06	68.2	-14.14	PK
H	11400.166	44.67	8.46	38.57	44.50	47.20	54	-6.80	AV
H	17100.188	51.37	10.12	38.38	44.10	55.77	74	-18.23	PK
H	17100.188	43.55	10.12	38.38	44.10	47.95	54	-6.05	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
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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	4434.168	63.51	5.94	35.40	44.00	60.85	68.2	-7.35	PK
V	4434.168	43.40	5.94	35.40	44.00	40.74	54	-13.26	AV
V	11020.193	61.72	8.46	39.75	44.50	65.43	68.2	-2.77	PK
V	11020.193	43.54	8.46	39.75	44.50	47.25	54	-6.75	AV
V	16530.047	62.43	10.12	38.80	44.10	67.25	74	-6.75	PK
V	16530.047	43.80	10.12	38.80	42.70	50.02	54	-3.98	AV
H	4434.140	63.87	5.94	35.18	44.00	60.99	68.2	-7.21	PK
H	4434.140	43.37	5.94	35.18	44.00	40.49	54	-13.51	AV
H	11020.003	54.09	8.46	38.71	44.50	56.76	68.2	-11.44	PK
H	11020.003	40.78	8.46	38.71	44.50	43.45	54	-10.55	AV
H	16530.160	52.85	10.12	38.38	44.10	57.25	74	-16.75	PK
H	16530.160	41.33	10.12	38.38	44.10	45.73	54	-8.27	AV
Middle Channel (5590 MHz)-Above 1G									
V	4592.045	60.71	6.48	36.35	44.05	59.49	74	-14.51	PK
V	4592.045	43.28	6.48	36.35	44.05	42.06	54	-11.94	AV
V	11180.158	62.67	8.47	37.88	44.51	64.51	68.2	-3.69	PK
V	11180.158	43.31	8.47	37.88	44.51	45.15	54	-8.85	AV
V	16770.190	60.43	10.12	38.80	44.10	65.25	74	-8.75	PK
V	16770.190	43.55	10.12	38.80	42.70	49.77	54	-4.23	AV
H	4592.104	63.12	6.48	36.37	44.05	61.92	74	-12.08	PK
H	4592.104	43.43	6.48	36.37	44.05	42.23	54	-11.77	AV
H	11180.066	50.13	8.47	38.64	44.50	52.74	68.2	-15.46	PK
H	11180.066	43.40	8.47	38.64	44.50	46.01	54	-7.99	AV
H	16770.128	54.24	10.12	38.38	44.10	58.64	74	-15.36	PK
H	16770.128	42.13	10.12	38.38	44.10	46.53	54	-7.47	AV
High Channel (5670 MHz)-Above 1G									
V	4739.007	64.35	7.10	37.24	43.50	65.19	74	-8.81	PK
V	4739.007	43.73	7.10	37.24	43.50	44.57	54	-9.43	AV
V	11340.030	61.48	8.46	37.68	44.50	63.12	68.2	-5.08	PK
V	11340.030	43.06	8.46	37.68	44.50	44.70	54	-9.30	AV
V	17010.194	62.13	10.12	38.80	44.10	66.95	74	-7.05	PK
V	17010.194	43.23	10.12	38.80	42.70	49.45	54	-4.55	AV
H	4739.078	62.11	7.10	37.24	43.50	62.95	74	-11.05	PK
H	4739.078	43.26	7.10	37.24	43.50	44.10	54	-9.90	AV
H	11340.006	51.38	8.46	38.57	44.50	53.91	68.2	-14.29	PK
H	11340.006	42.33	8.46	38.57	44.50	44.86	54	-9.14	AV
H	17010.135	53.37	10.12	38.38	44.10	57.77	74	-16.23	PK
H	17010.135	40.76	10.12	38.38	44.10	45.16	54	-8.84	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(5.6G) - 802.11ac-HT20
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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	4434.031	64.15	5.94	35.40	44.00	61.49	68.2	-6.71	PK
V	4434.031	43.77	5.94	35.40	44.00	41.11	54	-12.89	AV
V	11000.037	61.94	8.46	39.75	44.50	65.65	68.2	-2.55	PK
V	11000.037	43.53	8.46	39.75	44.50	47.24	54	-6.76	AV
V	16500.163	61.27	10.12	38.80	44.10	66.09	74	-7.91	PK
V	16500.163	43.71	10.12	38.80	42.70	49.93	54	-4.07	AV
H	4434.115	64.81	5.94	35.18	44.00	61.93	68.2	-6.27	PK
H	4434.115	43.09	5.94	35.18	44.00	40.21	54	-13.79	AV
H	11000.200	54.25	8.46	38.71	44.50	56.92	68.2	-11.28	PK
H	11000.200	44.11	8.46	38.71	44.50	46.78	54	-7.22	AV
H	16500.141	52.66	10.12	38.38	44.10	57.06	74	-16.94	PK
H	16500.141	43.83	10.12	38.38	44.10	48.23	54	-5.77	AV
Middle Channel (5600 MHz)-Above 1G									
V	4592.133	62.98	6.48	36.35	44.05	61.76	74	-12.24	PK
V	4592.133	43.41	6.48	36.35	44.05	42.19	54	-11.81	AV
V	11200.078	61.41	8.47	37.88	44.51	63.25	68.2	-4.95	PK
V	11200.078	43.64	8.47	37.88	44.51	45.48	54	-8.52	AV
V	16800.138	63.31	10.12	38.80	44.10	68.13	74	-5.87	PK
V	16800.138	43.33	10.12	38.80	42.70	49.55	54	-4.45	AV
H	4592.128	61.71	6.48	36.37	44.05	60.51	74	-13.49	PK
H	4592.128	43.12	6.48	36.37	44.05	41.92	54	-12.08	AV
H	11200.112	51.90	8.47	38.64	44.50	54.51	68.2	-13.69	PK
H	11200.112	44.70	8.47	38.64	44.50	47.31	54	-6.69	AV
H	16800.159	52.75	10.12	38.38	44.10	57.15	74	-16.85	PK
H	16800.159	44.83	10.12	38.38	44.10	49.23	54	-4.77	AV
High Channel (5700 MHz)-Above 1G									
V	4739.164	60.42	7.10	37.24	43.50	61.26	74	-12.74	PK
V	4739.164	43.95	7.10	37.24	43.50	44.79	54	-9.21	AV
V	11400.008	62.16	8.46	37.68	44.50	63.80	68.2	-4.40	PK
V	11400.008	43.36	8.46	37.68	44.50	45.00	54	-9.00	AV
V	17100.075	60.04	10.12	38.80	44.10	64.86	74	-9.14	PK
V	17100.075	43.67	10.12	38.80	42.70	49.89	54	-4.11	AV
H	4739.008	62.83	7.10	37.24	43.50	63.67	74	-10.33	PK
H	4739.008	43.43	7.10	37.24	43.50	44.27	54	-9.73	AV
H	11400.150	54.43	8.46	38.57	44.50	56.96	68.2	-11.24	PK
H	11400.150	40.20	8.46	38.57	44.50	42.73	54	-11.27	AV
H	17100.009	50.38	10.12	38.38	44.10	54.78	74	-19.22	PK
H	17100.009	41.42	10.12	38.38	44.10	45.82	54	-8.18	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
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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	4434.039	62.09	5.94	35.40	44.00	59.43	68.2	-8.77	PK
V	4434.039	43.58	5.94	35.40	44.00	40.92	54	-13.08	AV
V	11020.075	61.19	8.46	39.75	44.50	64.90	68.2	-3.30	PK
V	11020.075	43.07	8.46	39.75	44.50	46.78	54	-7.22	AV
V	16530.185	63.83	10.12	38.80	44.10	68.65	74	-5.35	PK
V	16530.185	43.05	10.12	38.80	42.70	49.27	54	-4.73	AV
H	4434.091	63.78	5.94	35.18	44.00	60.90	68.2	-7.30	PK
H	4434.091	43.74	5.94	35.18	44.00	40.86	54	-13.14	AV
H	11020.040	54.12	8.46	38.71	44.50	56.79	68.2	-11.41	PK
H	11020.040	43.90	8.46	38.71	44.50	46.57	54	-7.43	AV
H	16530.012	53.99	10.12	38.38	44.10	58.39	74	-15.61	PK
H	16530.012	40.41	10.12	38.38	44.10	44.81	54	-9.19	AV
Middle Channel (5590 MHz)-Above 1G									
V	4592.137	63.20	6.48	36.35	44.05	61.98	74	-12.02	PK
V	4592.137	43.55	6.48	36.35	44.05	42.33	54	-11.67	AV
V	11180.047	60.53	8.47	37.88	44.51	62.37	68.2	-5.83	PK
V	11180.047	43.80	8.47	37.88	44.51	45.64	54	-8.36	AV
V	16770.095	63.05	10.12	38.80	44.10	67.87	74	-6.13	PK
V	16770.095	43.39	10.12	38.80	42.70	49.61	54	-4.39	AV
H	4592.011	63.45	6.48	36.37	44.05	62.25	74	-11.75	PK
H	4592.011	43.24	6.48	36.37	44.05	42.04	54	-11.96	AV
H	11180.136	51.43	8.47	38.64	44.50	54.04	68.2	-14.16	PK
H	11180.136	40.25	8.47	38.64	44.50	42.86	54	-11.14	AV
H	16770.180	51.54	10.12	38.38	44.10	55.94	74	-18.06	PK
H	16770.180	40.13	10.12	38.38	44.10	44.53	54	-9.47	AV
High Channel (5670 MHz)-Above 1G									
V	4739.084	63.44	7.10	37.24	43.50	64.28	74	-9.72	PK
V	4739.084	43.71	7.10	37.24	43.50	44.55	54	-9.45	AV
V	11340.176	64.53	8.46	37.68	44.50	66.17	68.2	-2.03	PK
V	11340.176	43.77	8.46	37.68	44.50	45.41	54	-8.59	AV
V	17010.157	61.78	10.12	38.80	44.10	66.60	74	-7.40	PK
V	17010.157	43.14	10.12	38.80	42.70	49.36	54	-4.64	AV
H	4739.198	64.80	7.10	37.24	43.50	65.64	74	-8.36	PK
H	4739.198	43.71	7.10	37.24	43.50	44.55	54	-9.45	AV
H	11340.109	52.82	8.46	38.57	44.50	55.35	68.2	-12.85	PK
H	11340.109	41.73	8.46	38.57	44.50	44.26	54	-9.74	AV
H	17010.113	52.87	10.12	38.38	44.10	57.27	74	-16.73	PK
H	17010.113	44.14	10.12	38.38	44.10	48.54	54	-5.46	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(5.6G) - 802.11ac-HT80
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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 (5530 MHz)-Above 1G									
V	4434.048	60.36	5.94	35.40	44.00	57.70	68.2	-10.50	PK
V	4434.048	43.46	5.94	35.40	44.00	40.80	54	-13.20	AV
V	11060.178	61.64	8.46	39.75	44.50	65.35	68.2	-2.85	PK
V	11060.178	43.34	8.46	39.75	44.50	47.05	54	-6.95	AV
V	16590.195	60.16	10.12	38.80	44.10	64.98	74	-9.02	PK
V	16590.195	43.53	10.12	38.80	42.70	49.75	54	-4.25	AV
H	4434.179	64.90	5.94	35.18	44.00	62.02	74	-11.98	PK
H	4434.179	43.55	5.94	35.18	44.00	40.67	54	-13.33	AV
H	11060.181	51.64	8.46	38.71	44.50	54.31	68.2	-13.89	PK
H	11060.181	44.85	8.46	38.71	44.50	47.52	54	-6.48	AV
H	16590.102	53.57	10.12	38.38	44.10	57.97	74	-16.03	PK
H	16590.102	44.40	10.12	38.38	44.10	48.80	54	-5.20	AV
High Channel (5610 MHz)-Above 1G									
V	4739.101	62.42	6.48	36.35	44.05	61.20	68.2	-7.00	PK
V	4739.101	43.77	6.48	36.35	44.05	42.55	54	-11.45	AV
V	11220.187	60.27	8.47	37.88	44.51	62.11	68.2	-6.09	PK
V	11220.187	43.16	8.47	37.88	44.51	45.00	54	-9.00	AV
V	16830.060	61.89	10.12	38.80	44.10	66.71	74	-7.29	PK
V	16830.060	43.87	10.12	38.80	42.70	50.09	54	-3.91	AV
H	4739.129	61.92	6.48	36.37	44.05	60.72	68.2	-7.48	PK
H	4739.129	43.02	6.48	36.37	44.05	41.82	54	-12.18	AV
H	11220.104	50.33	8.47	38.64	44.50	52.94	68.2	-15.26	PK
H	11220.104	42.53	8.47	38.64	44.50	45.14	54	-8.86	AV
H	16830.158	51.55	10.12	38.38	44.10	55.95	74	-18.05	PK
H	16830.158	42.63	10.12	38.38	44.10	47.03	54	-6.97	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.8G) - 802.11a
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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	4679.160	59.33	5.94	35.40	44.00	56.67	74	-17.33	PK
V	4679.160	43.60	5.94	35.40	44.00	40.94	54	-13.06	AV
V	11490.116	56.09	8.46	39.75	44.50	59.80	68.2	-8.40	PK
V	11490.116	43.82	8.46	39.75	44.50	47.53	54	-6.47	AV
V	17235.189	60.21	10.12	38.80	44.10	65.03	68.2	-3.17	PK
V	17235.189	43.22	10.12	38.80	42.70	49.44	54	-4.56	AV
H	4679.033	57.58	5.94	35.18	44.00	54.70	74	-19.30	PK
H	4679.033	43.26	5.94	35.18	44.00	40.38	54	-13.62	AV
H	11490.046	50.66	8.46	38.71	44.50	53.33	68.2	-14.87	PK
H	11490.046	40.99	8.46	38.71	44.50	43.66	54	-10.34	AV
H	17235.044	51.11	10.12	38.38	44.10	55.51	68.2	-12.69	PK
H	17235.044	41.54	10.12	38.38	44.10	45.94	54	-8.06	AV
Middle Channel (5785 MHz)-Above 1G									
V	4592.010	57.67	6.48	36.35	44.05	56.45	74	-17.55	PK
V	4592.010	43.74	6.48	36.35	44.05	42.52	54	-11.48	AV
V	11570.086	58.87	8.47	37.88	44.51	60.71	68.2	-7.49	PK
V	11570.086	43.02	8.47	37.88	44.51	44.86	54	-9.14	AV
V	17355.037	60.19	10.12	38.80	44.10	65.01	68.2	-3.19	PK
V	17355.037	39.95	10.12	38.80	42.70	46.17	54	-7.83	AV
H	4592.098	57.15	6.48	36.37	44.05	55.95	74	-18.05	PK
H	4592.098	43.08	6.48	36.37	44.05	41.88	54	-12.12	AV
H	11570.122	51.79	8.47	38.64	44.50	54.40	68.2	-13.80	PK
H	11570.122	41.70	8.47	38.64	44.50	44.31	54	-9.69	AV
H	17355.094	53.02	10.12	38.38	44.10	57.42	68.2	-10.78	PK
H	17355.094	41.57	10.12	38.38	44.10	45.97	54	-8.03	AV
High Channel (5825 MHz)-Above 1G									
V	6039.181	57.42	7.10	37.24	43.50	58.26	68.2	-9.94	PK
V	6039.181	43.60	7.10	37.24	43.50	44.44	54	-9.56	AV
V	11650.172	59.61	8.46	37.68	44.50	61.25	74	-12.75	PK
V	11650.172	43.03	8.46	37.68	44.50	44.67	54	-9.33	AV
V	17475.022	57.15	10.12	38.80	44.10	61.97	68.2	-6.23	PK
V	17475.022	43.35	10.12	38.80	42.70	49.57	54	-4.43	AV
H	6039.166	54.13	7.10	37.24	43.50	54.97	68.2	-13.23	PK
H	6039.166	43.62	7.10	37.24	43.50	44.46	54	-9.54	AV
H	11650.095	51.14	8.46	38.57	44.50	53.67	74	-20.33	PK
H	11650.095	41.66	8.46	38.57	44.50	44.19	54	-9.81	AV
H	17475.026	52.73	10.12	38.38	44.10	57.13	68.2	-11.07	PK
H	17475.026	43.39	10.12	38.38	44.10	47.79	54	-6.21	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
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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	4679.014	58.89	5.94	35.40	44.00	56.23	74	-17.77	PK
V	4679.014	43.06	5.94	35.40	44.00	40.40	54	-13.60	AV
V	11490.176	53.10	8.46	39.75	44.50	56.81	68.2	-11.39	PK
V	11490.176	43.60	8.46	39.75	44.50	47.31	54	-6.69	AV
V	17235.172	60.75	10.12	38.80	44.10	65.57	68.2	-2.63	PK
V	17235.172	43.99	10.12	38.80	42.70	50.21	54	-3.79	AV
H	4679.069	59.43	5.94	35.18	44.00	56.55	74	-17.45	PK
H	4679.069	43.37	5.94	35.18	44.00	40.49	54	-13.51	AV
H	11490.107	47.23	8.46	38.71	44.50	49.90	68.2	-18.30	PK
H	11490.107	43.09	8.46	38.71	44.50	45.76	54	-8.24	AV
H	17235.184	53.65	10.12	38.38	44.10	58.05	68.2	-10.15	PK
H	17235.184	44.38	10.12	38.38	44.10	48.78	54	-5.22	AV
Middle Channel (5785 MHz)-Above 1G									
V	4592.185	60.13	6.48	36.35	44.05	58.91	74	-15.09	PK
V	4592.185	43.35	6.48	36.35	44.05	42.13	54	-11.87	AV
V	11570.149	57.09	8.47	37.88	44.51	58.93	68.2	-9.27	PK
V	11570.149	43.37	8.47	37.88	44.51	45.21	54	-8.79	AV
V	17355.121	61.89	10.12	38.80	44.10	66.71	68.2	-1.49	PK
V	17355.121	43.76	10.12	38.80	42.70	49.98	54	-4.02	AV
H	4592.066	60.67	6.48	36.37	44.05	59.47	74	-14.53	PK
H	4592.066	43.81	6.48	36.37	44.05	42.61	54	-11.39	AV
H	11570.129	52.55	8.47	38.64	44.50	55.16	68.2	-13.04	PK
H	11570.129	40.65	8.47	38.64	44.50	43.26	54	-10.74	AV
H	17355.193	52.78	10.12	38.38	44.10	57.18	68.2	-11.02	PK
H	17355.193	40.37	10.12	38.38	44.10	44.77	54	-9.23	AV
High Channel (5825 MHz)-Above 1G									
V	6039.060	57.80	7.10	37.24	43.50	58.64	68.2	-9.56	PK
V	6039.060	43.39	7.10	37.24	43.50	44.23	54	-9.77	AV
V	11650.063	57.70	8.46	37.68	44.50	59.34	74	-14.66	PK
V	11650.063	43.89	8.46	37.68	44.50	45.53	54	-8.47	AV
V	17475.089	57.41	10.12	38.80	44.10	62.23	68.2	-5.97	PK
V	17475.089	43.21	10.12	38.80	42.70	49.43	54	-4.57	AV
H	6039.162	59.50	7.10	37.24	43.50	60.34	68.2	-7.86	PK
H	6039.162	43.12	7.10	37.24	43.50	43.96	54	-10.04	AV
H	11650.141	51.42	8.46	38.57	44.50	53.95	74	-20.05	PK
H	11650.141	44.49	8.46	38.57	44.50	47.02	54	-6.98	AV
H	17475.128	54.37	10.12	38.38	44.10	58.77	68.2	-9.43	PK
H	17475.128	41.98	10.12	38.38	44.10	46.38	54	-7.62	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.8G) - 802.11n-HT40
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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	4679.066	56.62	5.94	35.40	44.00	53.96	74	-20.04	PK
V	4679.066	43.73	5.94	35.40	44.00	41.07	54	-12.93	AV
V	11510.081	56.72	8.46	39.75	44.50	60.43	74	-13.57	PK
V	11510.081	43.80	8.46	39.75	44.50	47.51	54	-6.49	AV
V	17265.140	58.66	10.12	38.80	44.10	63.48	68.2	-4.72	PK
V	17265.140	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.192	59.76	5.94	35.18	44.00	56.88	74	-17.12	PK
H	4679.192	43.72	5.94	35.18	44.00	40.84	54	-13.16	AV
H	11510.178	50.84	8.46	38.71	44.50	53.51	74	-20.49	PK
H	11510.178	41.68	8.46	38.71	44.50	44.35	54	-9.65	AV
H	17265.172	54.88	10.12	38.38	44.10	59.28	68.2	-8.92	PK
H	17265.172	41.23	10.12	38.38	44.10	45.63	54	-8.37	AV
High Channel (5795 MHz)-Above 1G									
V	6039.113	56.25	6.48	36.35	44.05	55.03	68.2	-13.17	PK
V	6039.113	43.33	6.48	36.35	44.05	42.11	54	-11.89	AV
V	11590.190	59.22	8.47	37.88	44.51	61.06	74	-12.94	PK
V	11590.190	43.30	8.47	37.88	44.51	45.14	54	-8.86	AV
V	17385.150	55.56	10.12	38.80	44.10	60.38	68.2	-7.82	PK
V	17385.150	41.35	10.12	38.80	42.70	47.57	54	-6.43	AV
H	6039.037	60.93	6.48	36.37	44.05	59.73	68.2	-8.47	PK
H	6039.037	43.59	6.48	36.37	44.05	42.39	54	-11.61	AV
H	11590.075	52.83	8.47	38.64	44.50	55.44	74	-18.56	PK
H	11590.075	44.92	8.47	38.64	44.50	47.53	54	-6.47	AV
H	17385.039	54.16	10.12	38.38	44.10	58.56	68.2	-9.64	PK
H	17385.039	42.17	10.12	38.38	44.10	46.57	54	-7.43	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(5.8G) - 802.11ac-HT20
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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	4679.065	57.47	5.94	35.40	44.00	54.81	74	-19.19	PK
V	4679.065	43.07	5.94	35.40	44.00	40.41	54	-13.59	AV
V	11490.122	53.93	8.46	39.75	44.50	57.64	68.2	-10.56	PK
V	11490.122	43.34	8.46	39.75	44.50	47.05	54	-6.95	AV
V	17235.138	59.95	10.12	38.80	44.10	64.77	68.2	-3.43	PK
V	17235.138	43.04	10.12	38.80	42.70	49.26	54	-4.74	AV
H	4679.054	59.57	5.94	35.18	44.00	56.69	74	-17.31	PK
H	4679.054	43.50	5.94	35.18	44.00	40.62	54	-13.38	AV
H	11490.170	50.94	8.46	38.71	44.50	53.61	68.2	-14.59	PK
H	11490.170	41.02	8.46	38.71	44.50	43.69	54	-10.31	AV
H	17235.021	51.68	10.12	38.38	44.10	56.08	68.2	-12.12	PK
H	17235.021	41.43	10.12	38.38	44.10	45.83	54	-8.17	AV
Middle Channel (5785 MHz)-Above 1G									
V	4592.007	61.02	6.48	36.35	44.05	59.80	74	-14.20	PK
V	4592.007	43.36	6.48	36.35	44.05	42.14	54	-11.86	AV
V	11570.109	56.55	8.47	37.88	44.51	58.39	68.2	-9.81	PK
V	11570.109	43.52	8.47	37.88	44.51	45.36	54	-8.64	AV
V	17355.034	61.20	10.12	38.80	44.10	66.02	68.2	-2.18	PK
V	17355.034	43.58	10.12	38.80	42.70	49.80	54	-4.20	AV
H	4592.160	58.56	6.48	36.37	44.05	57.36	74	-16.64	PK
H	4592.160	43.77	6.48	36.37	44.05	42.57	54	-11.43	AV
H	11570.154	50.91	8.47	38.64	44.50	53.52	68.2	-14.68	PK
H	11570.154	42.36	8.47	38.64	44.50	44.97	54	-9.03	AV
H	17355.184	52.31	10.12	38.38	44.10	56.71	68.2	-11.49	PK
H	17355.184	42.01	10.12	38.38	44.10	46.41	54	-7.59	AV
High Channel (5825 MHz)-Above 1G									
V	6039.147	55.21	7.10	37.24	43.50	56.05	68.2	-12.15	PK
V	6039.147	43.37	7.10	37.24	43.50	44.21	54	-9.79	AV
V	11650.101	58.04	8.46	37.68	44.50	59.68	74	-14.32	PK
V	11650.101	43.88	8.46	37.68	44.50	45.52	54	-8.48	AV
V	17475.075	57.75	10.12	38.80	44.10	62.57	68.2	-5.63	PK
V	17475.075	43.96	10.12	38.80	42.70	50.18	54	-3.82	AV
H	6039.195	57.94	7.10	37.24	43.50	58.78	68.2	-9.42	PK
H	6039.195	43.67	7.10	37.24	43.50	44.51	54	-9.49	AV
H	11650.143	54.58	8.46	38.57	44.50	57.11	74	-16.89	PK
H	11650.143	43.37	8.46	38.57	44.50	45.90	54	-8.10	AV
H	17475.049	50.19	10.12	38.38	44.10	54.59	68.2	-13.61	PK
H	17475.049	40.34	10.12	38.38	44.10	44.74	54	-9.26	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 Mode.

Test Mode:	TX(5.8G) - 802.11ac-HT40
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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	4679.134	57.27	5.94	35.40	44.00	54.61	74	-19.39	PK
V	4679.134	43.95	5.94	35.40	44.00	41.29	54	-12.71	AV
V	11510.030	56.74	8.46	39.75	44.50	60.45	74	-13.55	PK
V	11510.030	43.48	8.46	39.75	44.50	47.19	54	-6.81	AV
V	17265.149	58.27	10.12	38.80	44.10	63.09	68.2	-5.11	PK
V	17265.149	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.083	60.10	5.94	35.18	44.00	57.22	74	-16.78	PK
H	4679.083	43.55	5.94	35.18	44.00	40.67	54	-13.33	AV
H	11510.027	53.42	8.46	38.71	44.50	56.09	74	-17.91	PK
H	11510.027	40.36	8.46	38.71	44.50	43.03	54	-10.97	AV
H	17265.124	52.21	10.12	38.38	44.10	56.61	68.2	-11.59	PK
H	17265.124	44.44	10.12	38.38	44.10	48.84	54	-5.16	AV
High Channel (5795 MHz)-Above 1G									
V	6039.138	56.35	6.48	36.35	44.05	55.13	68.2	-13.07	PK
V	6039.138	43.97	6.48	36.35	44.05	42.75	54	-11.25	AV
V	11590.142	58.50	8.47	37.88	44.51	60.34	74	-13.66	PK
V	11590.142	43.40	8.47	37.88	44.51	45.24	54	-8.76	AV
V	17385.111	55.71	10.12	38.80	44.10	60.53	68.2	-7.67	PK
V	17385.111	41.61	10.12	38.80	42.70	47.83	54	-6.17	AV
H	6039.136	59.28	6.48	36.37	44.05	58.08	68.2	-10.12	PK
H	6039.136	43.14	6.48	36.37	44.05	41.94	54	-12.06	AV
H	11590.068	51.98	8.47	38.64	44.50	54.59	74	-19.41	PK
H	11590.068	44.71	8.47	38.64	44.50	47.32	54	-6.68	AV
H	17385.044	50.46	10.12	38.38	44.10	54.86	68.2	-13.34	PK
H	17385.044	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.

Test Mode:	TX(5.8G) - 802.11ac-HT80
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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	4679.078	55.55	5.94	35.40	44.00	52.89	74	-21.11	PK
V	4679.078	43.78	5.94	35.40	44.00	41.12	54	-12.88	AV
V	11550.066	57.13	8.46	39.75	44.50	60.84	74	-13.16	PK
V	11550.066	43.72	8.46	39.75	44.50	47.43	54	-6.57	AV
V	17325.105	58.63	10.12	38.80	44.10	63.45	68.2	-4.75	PK
V	17325.105	41.64	10.12	38.80	42.70	47.86	54	-6.14	AV
H	4679.185	57.26	5.94	35.18	44.00	54.38	74	-19.62	PK
H	4679.185	43.86	5.94	35.18	44.00	40.98	54	-13.02	AV
H	11550.175	51.95	8.46	38.71	44.50	54.62	74	-19.38	PK
H	11550.175	43.26	8.46	38.71	44.50	45.93	54	-8.07	AV
H	17325.097	52.38	10.12	38.38	44.10	56.78	68.2	-11.42	PK
H	17325.097	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.

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

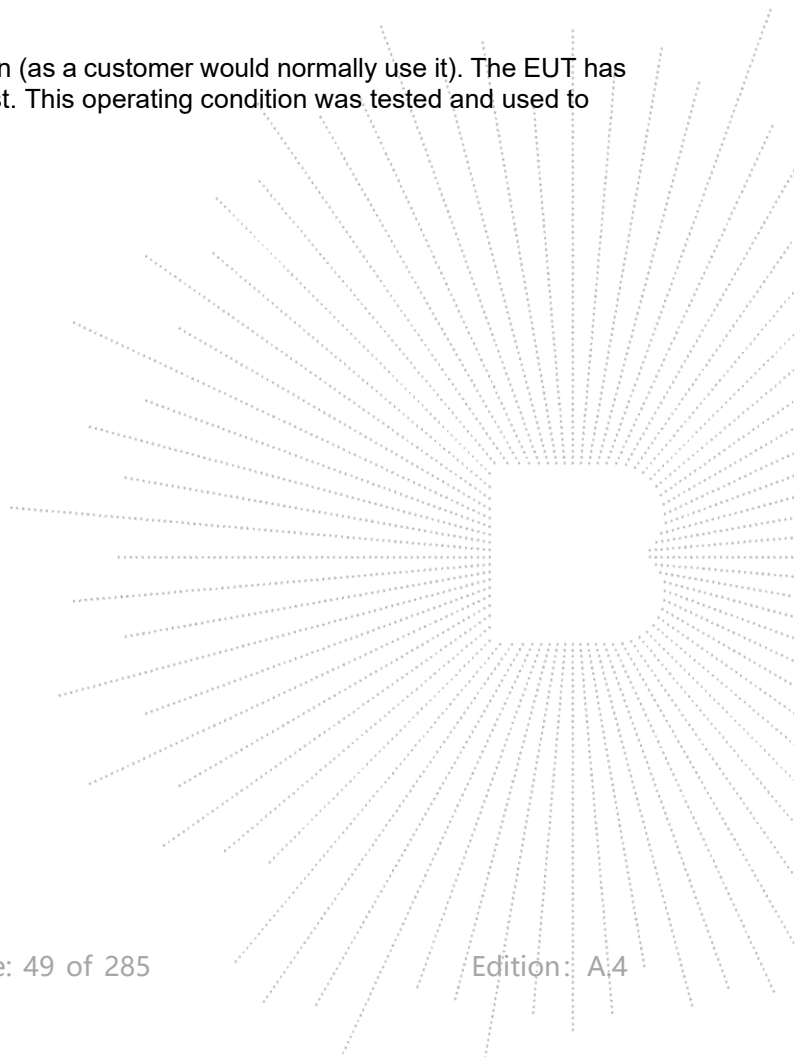
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of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

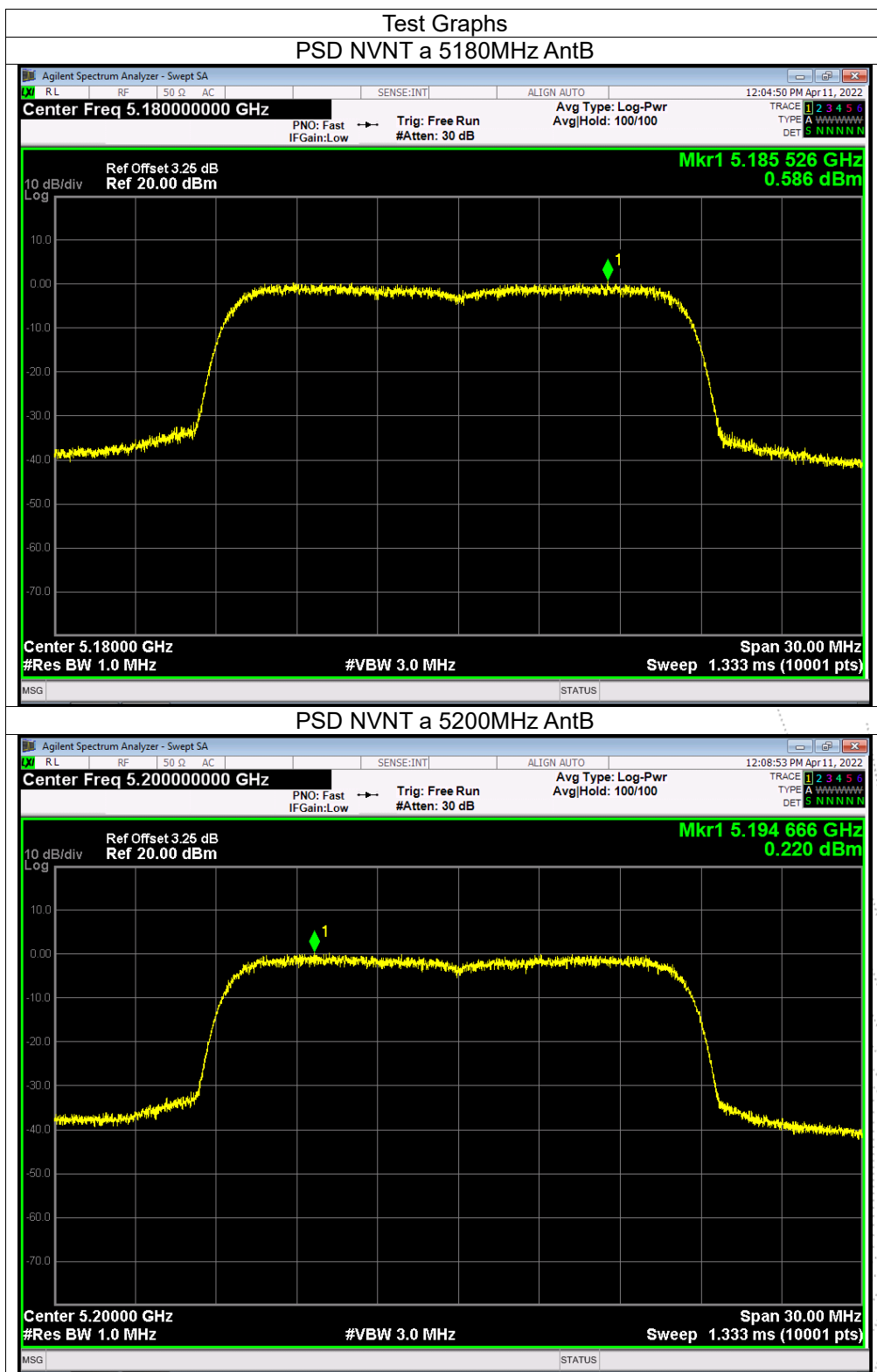


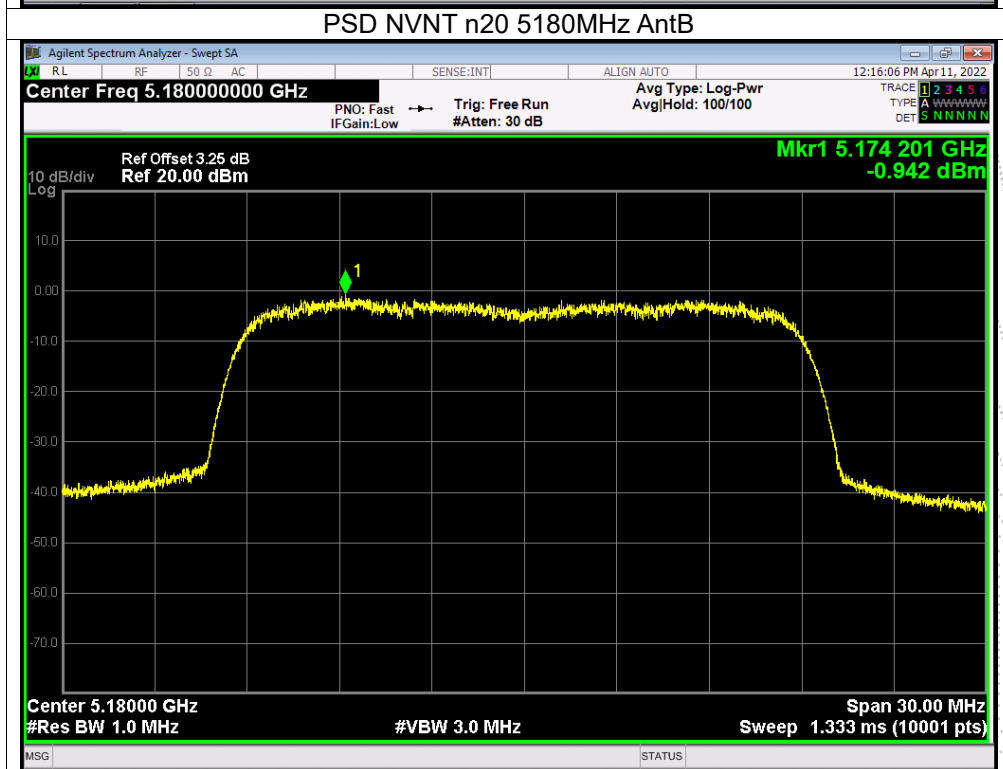
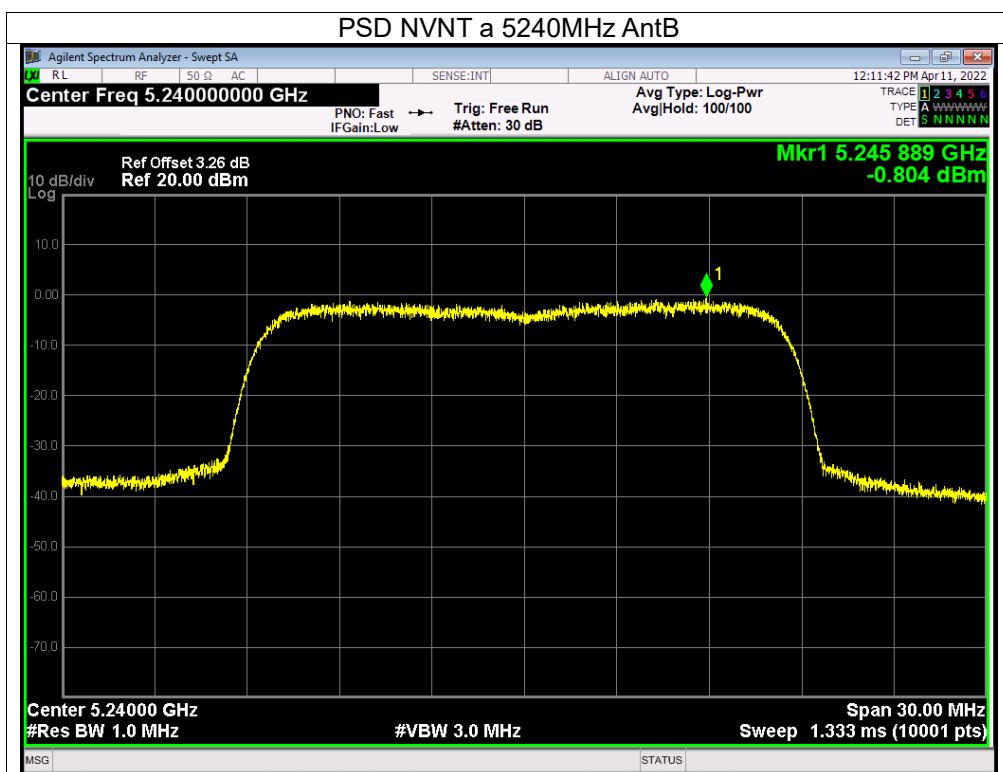
8.5 Test Result

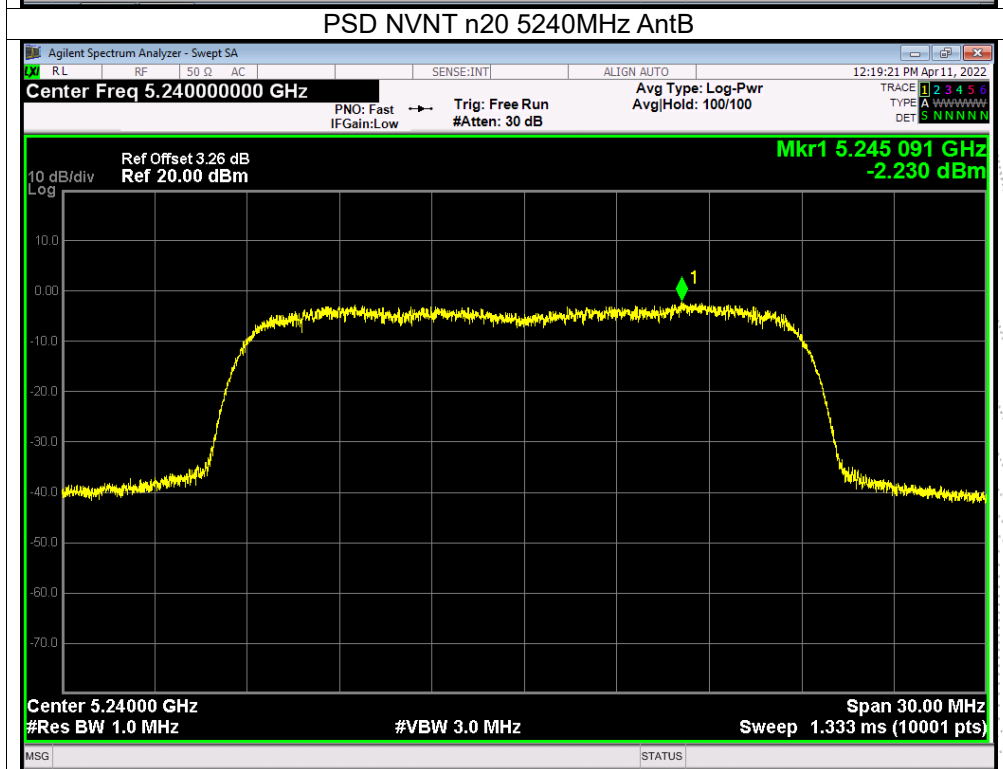
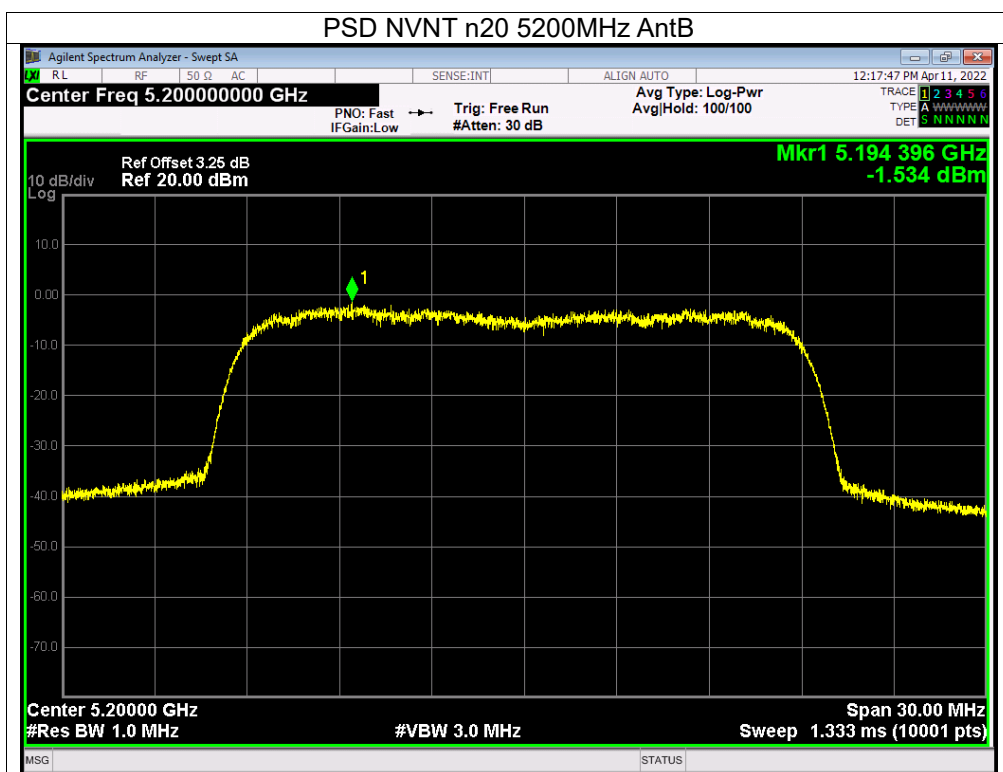
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5180-5240MHz)		

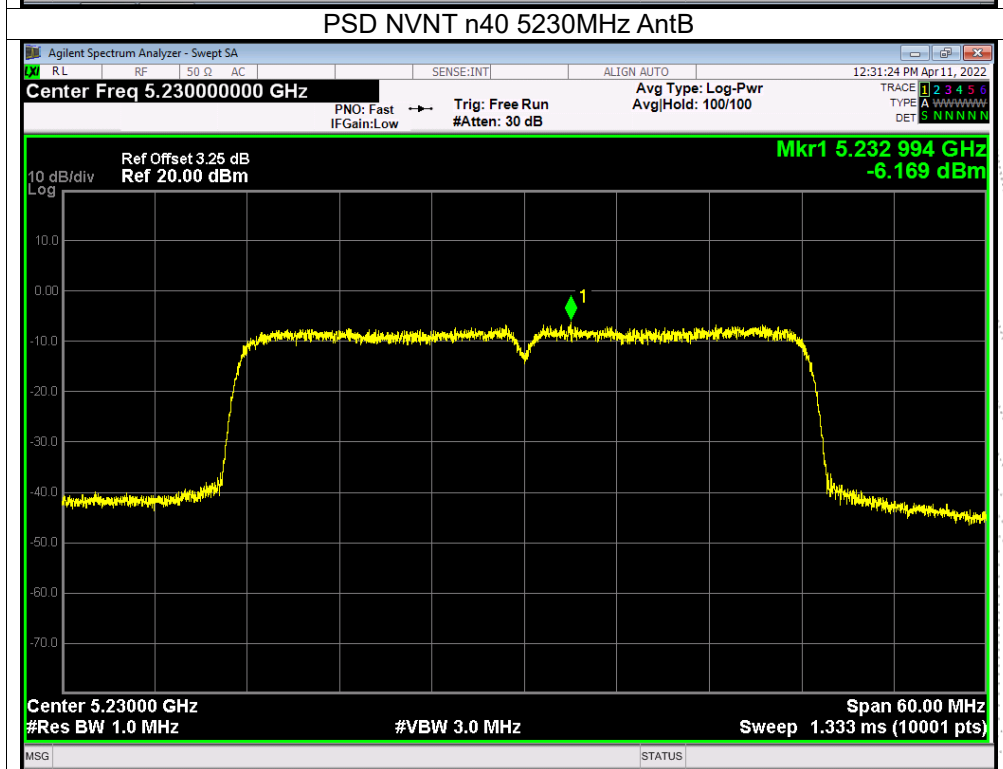
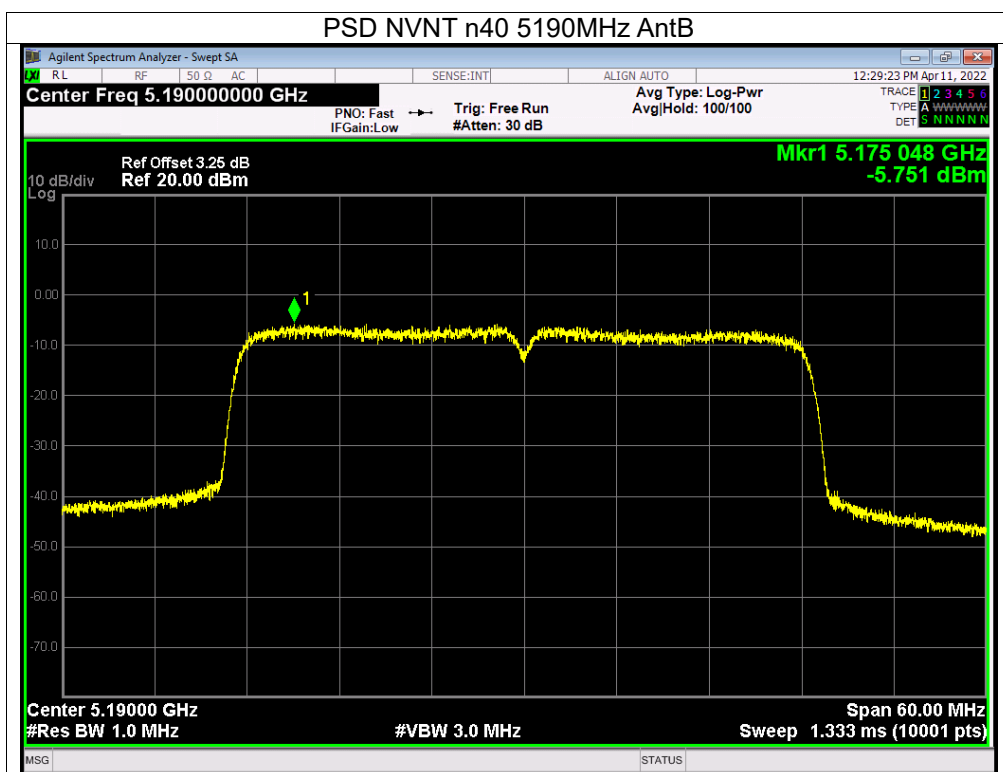
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5180	-0.14	0.59	/	11	Pass
NVNT	a	5200	-0.81	0.22	/	11	Pass
NVNT	a	5240	-0.50	-0.80	/	11	Pass
NVNT	n20	5180	-1.56	-0.94	1.77	11	Pass
NVNT	n20	5200	-2.42	-1.53	1.06	11	Pass
NVNT	n20	5240	-3.07	-2.23	0.38	11	Pass
NVNT	n40	5190	-5.67	-5.75	-2.70	11	Pass
NVNT	n40	5230	-6.67	-6.17	-3.40	11	Pass
NVNT	ac20	5180	-1.97	-0.98	1.56	11	Pass
NVNT	ac20	5200	-2.92	-1.74	0.72	11	Pass
NVNT	ac20	5240	-3.03	-2.51	0.25	11	Pass
NVNT	ac40	5190	-5.68	-5.59	-2.62	11	Pass
NVNT	ac40	5230	-7.15	-6.55	-3.83	11	Pass
NVNT	ac80	5210	-9.96	-8.84	-6.35	11	Pass

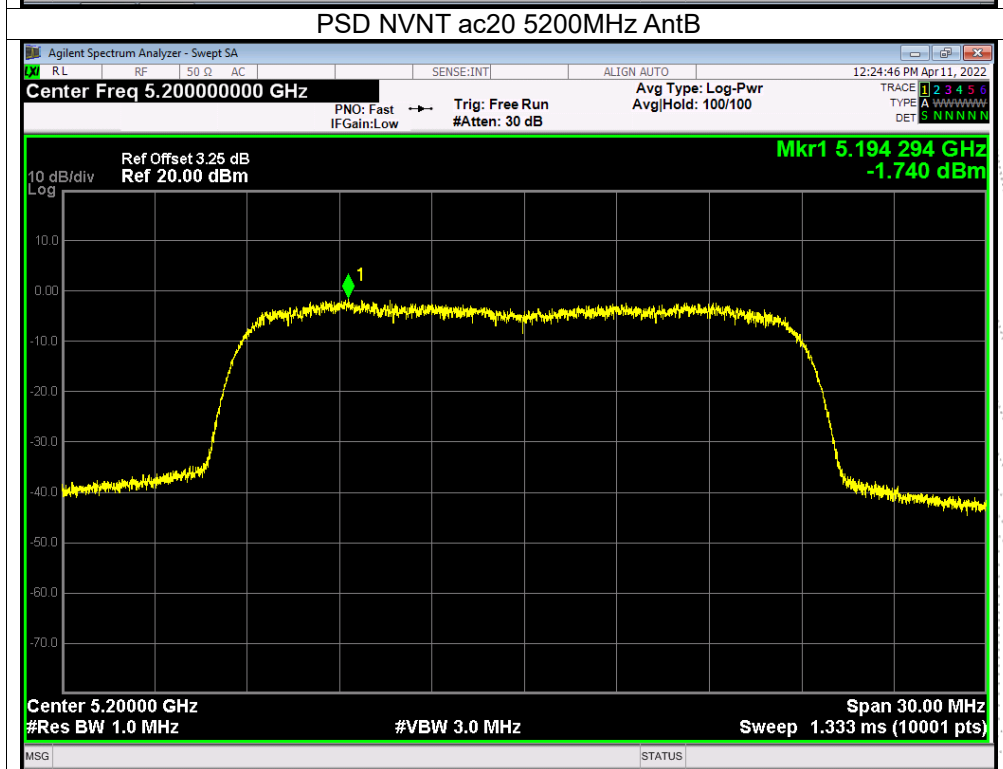
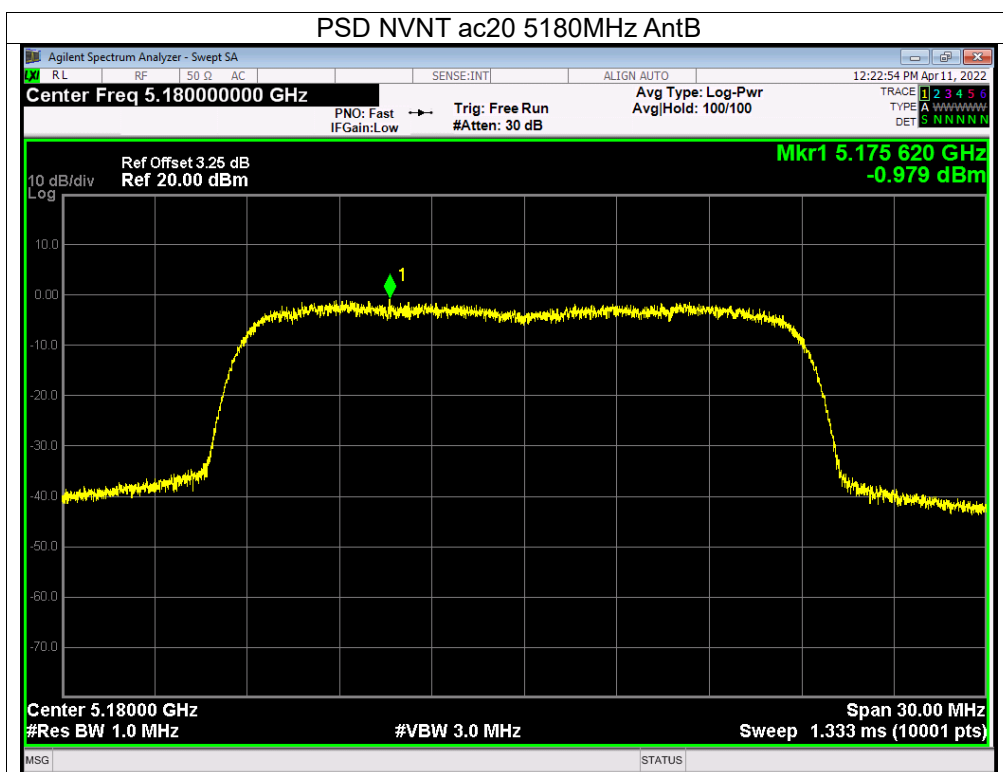
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

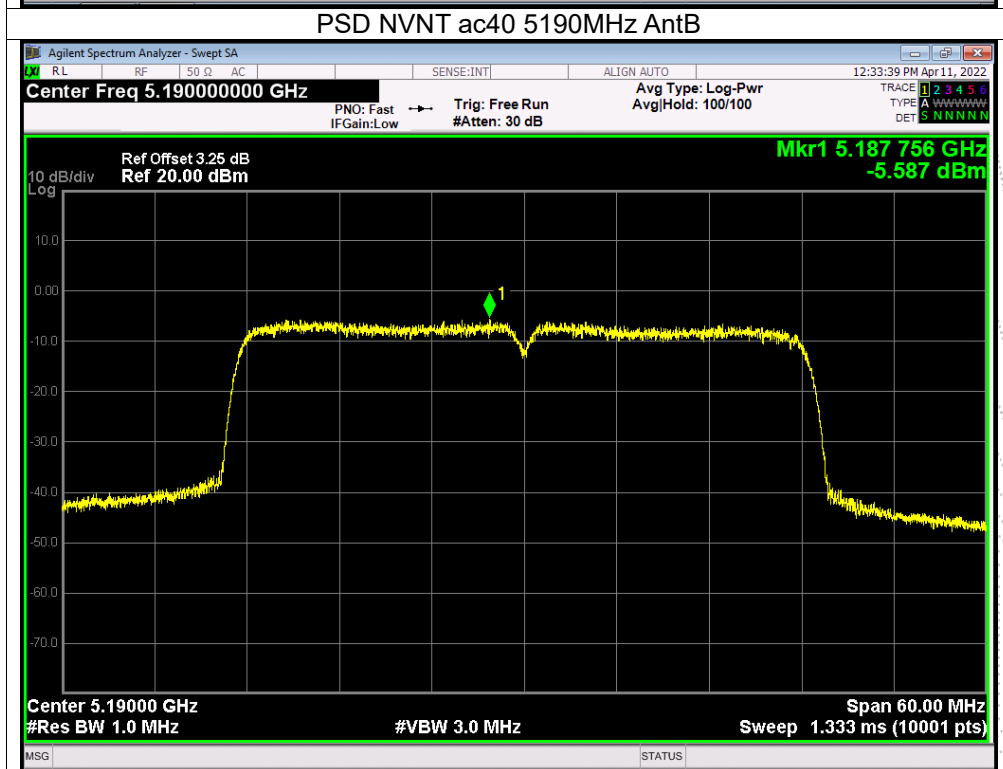
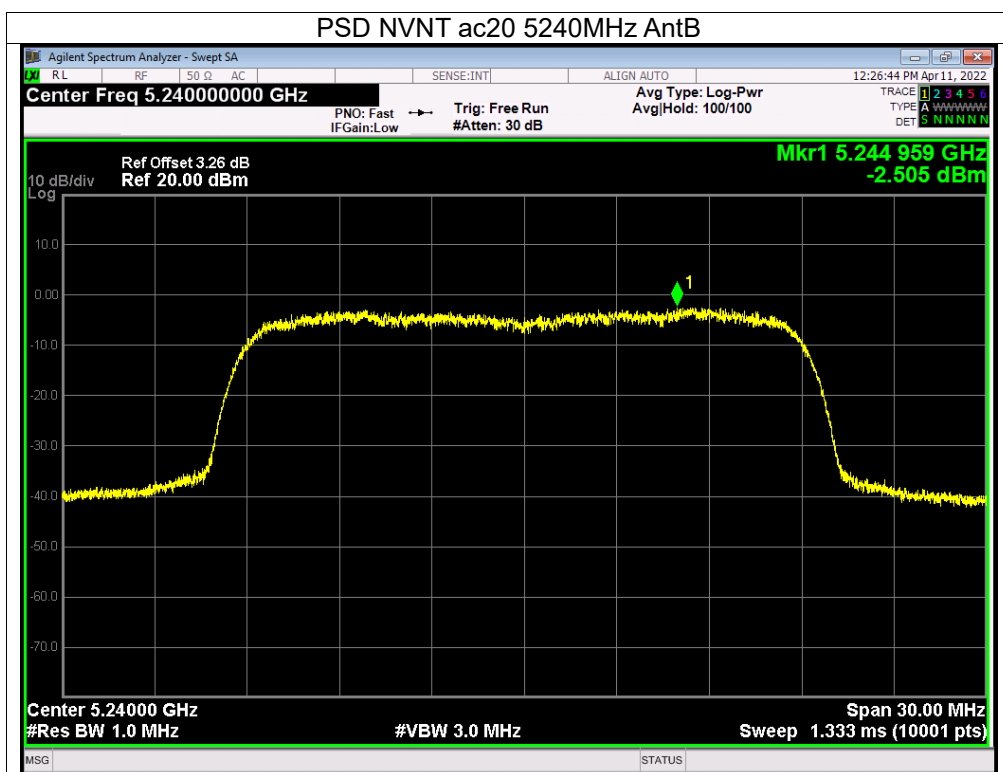


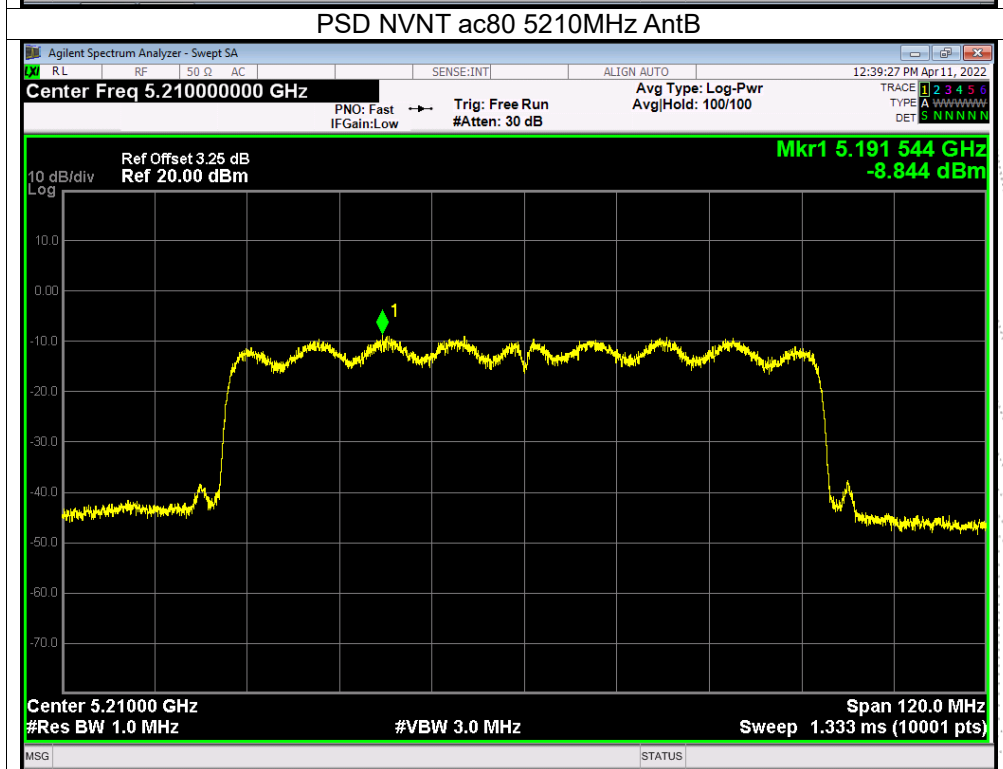
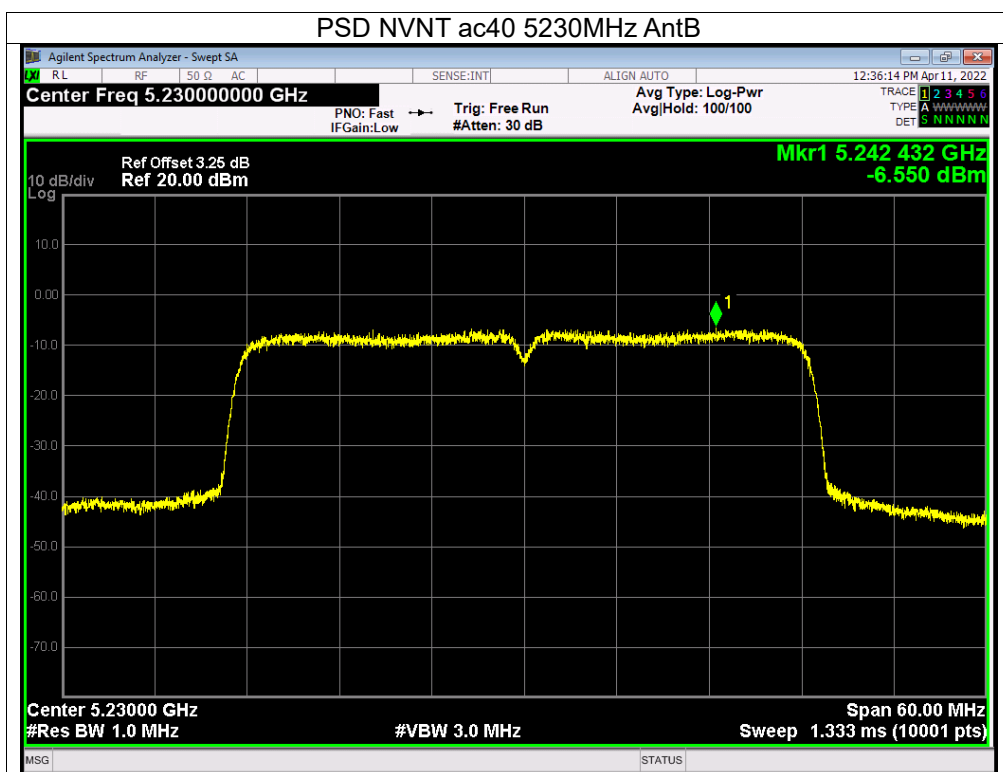








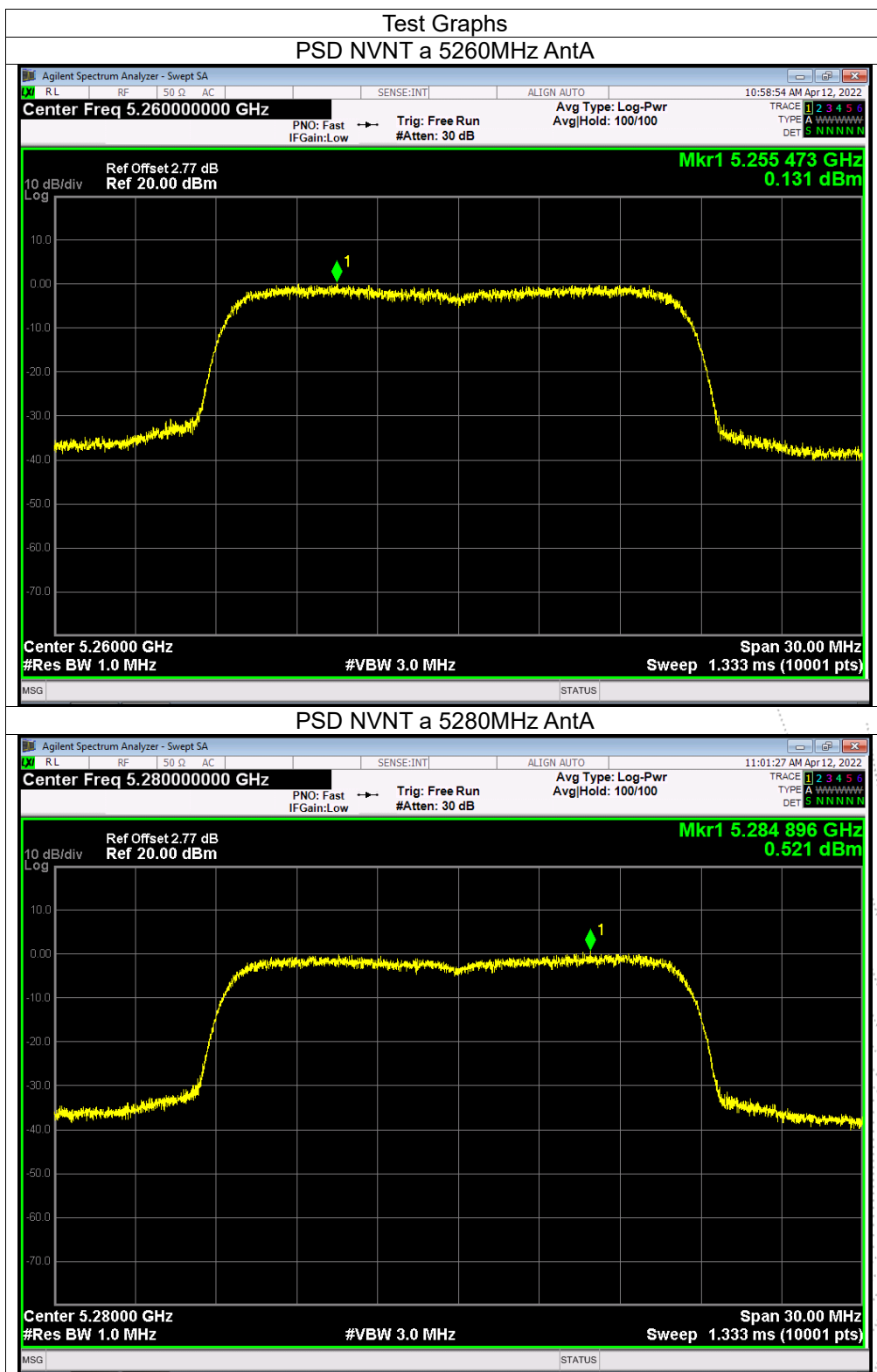


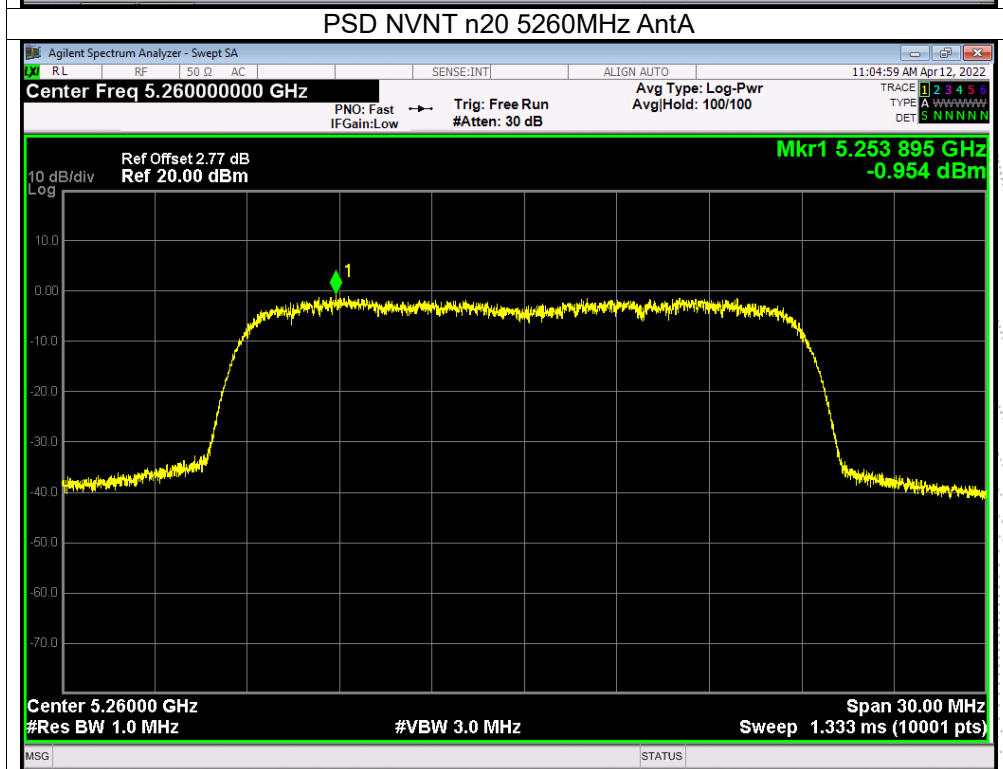
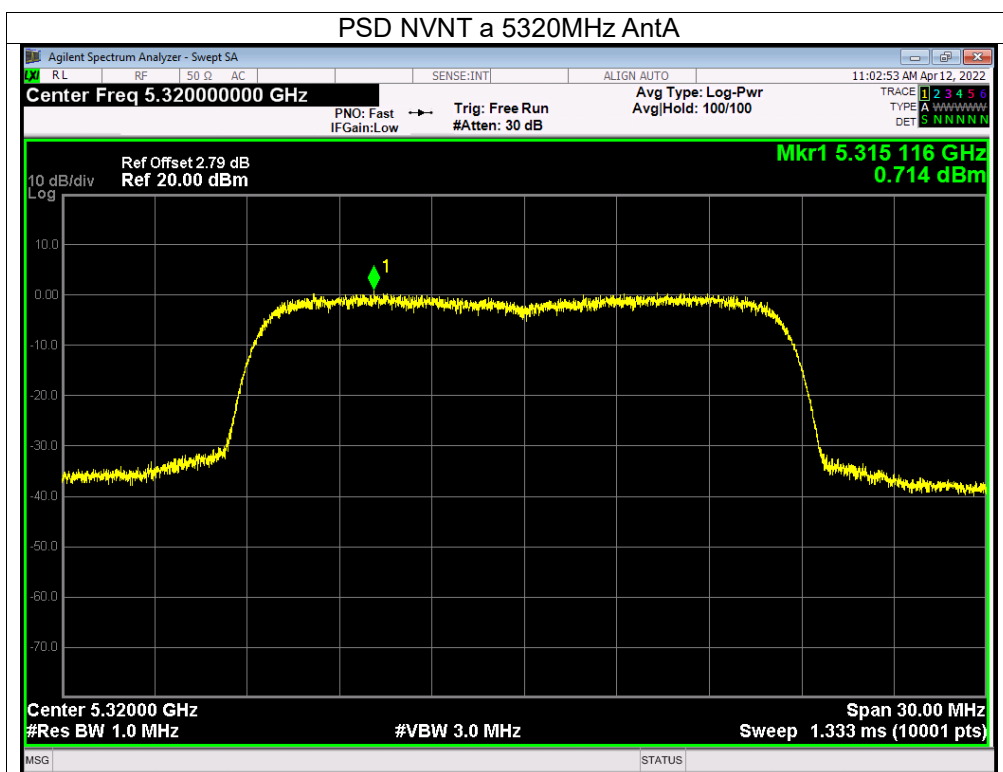


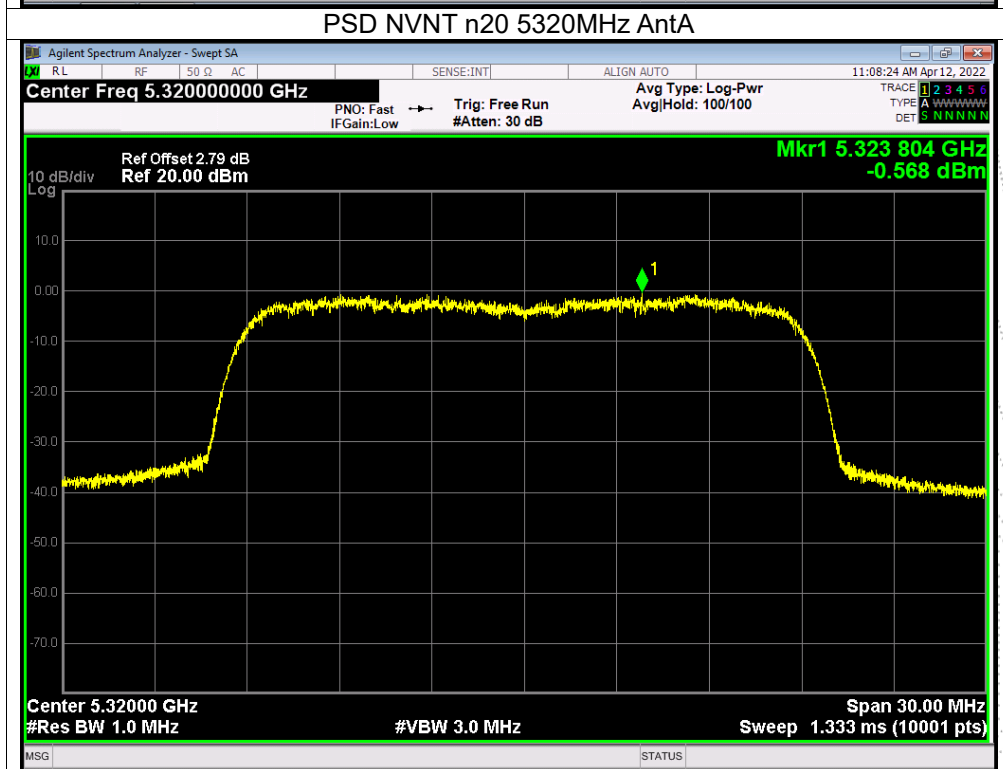
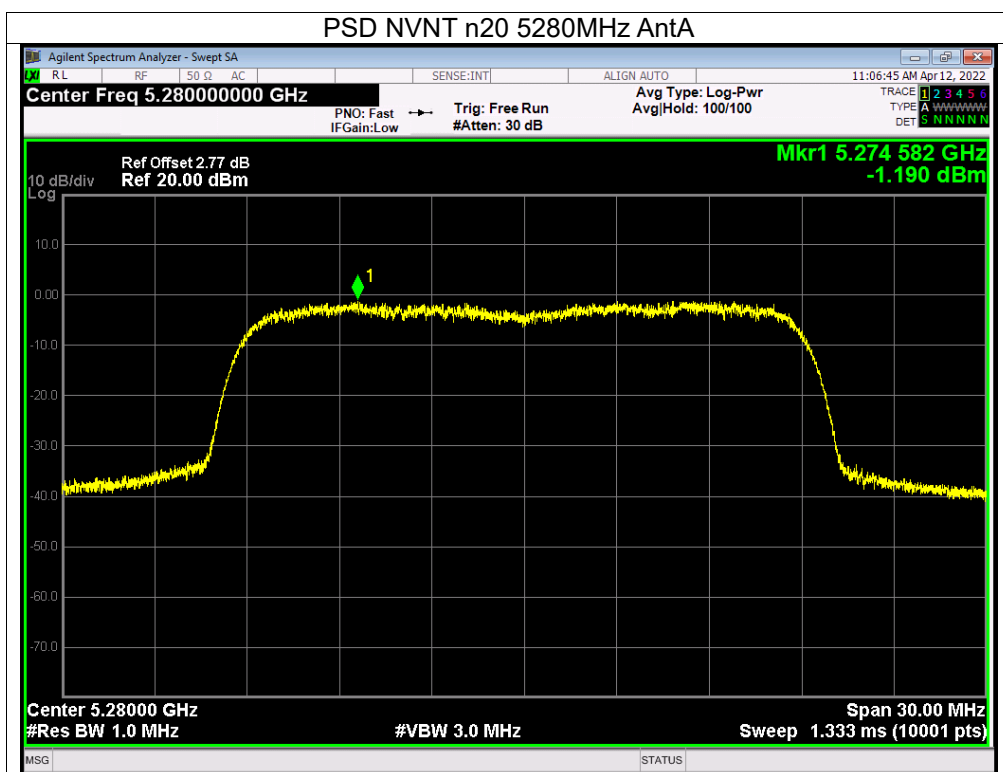
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5260-5320MHz)		

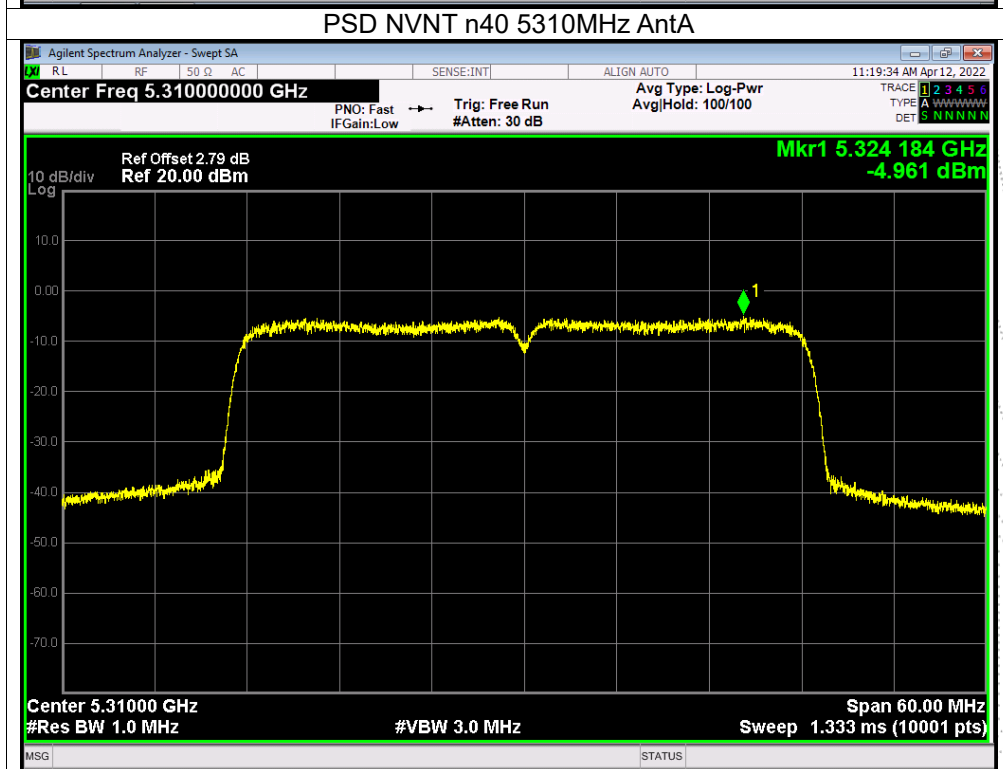
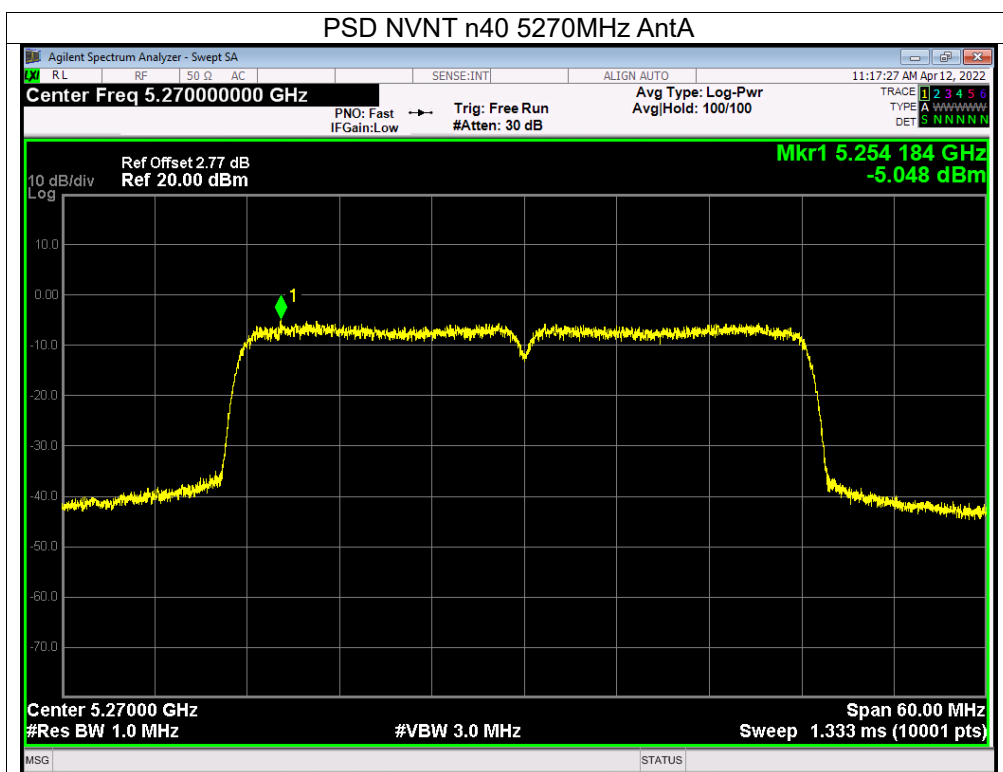
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5260	0.13	-0.30	/	11	Pass
NVNT	a	5280	0.52	-0.29	/	11	Pass
NVNT	a	5320	0.71	0.03	/	11	Pass
NVNT	n20	5260	-0.95	-2.23	1.47	11	Pass
NVNT	n20	5280	-1.19	-1.99	1.44	11	Pass
NVNT	n20	5320	-0.57	-1.41	2.04	11	Pass
NVNT	n40	5270	-5.05	-5.75	-2.38	11	Pass
NVNT	n40	5310	-4.96	-5.99	-2.43	11	Pass
NVNT	ac20	5260	-0.95	-1.72	1.69	11	Pass
NVNT	ac20	5280	-0.97	-1.36	1.85	11	Pass
NVNT	ac20	5320	-0.63	-1.41	2.01	11	Pass
NVNT	ac40	5270	-6.14	-6.18	-3.15	11	Pass
NVNT	ac40	5310	-5.84	-5.83	-2.82	11	Pass
NVNT	ac80	5290	-9.16	-10.21	-6.64	11	Pass

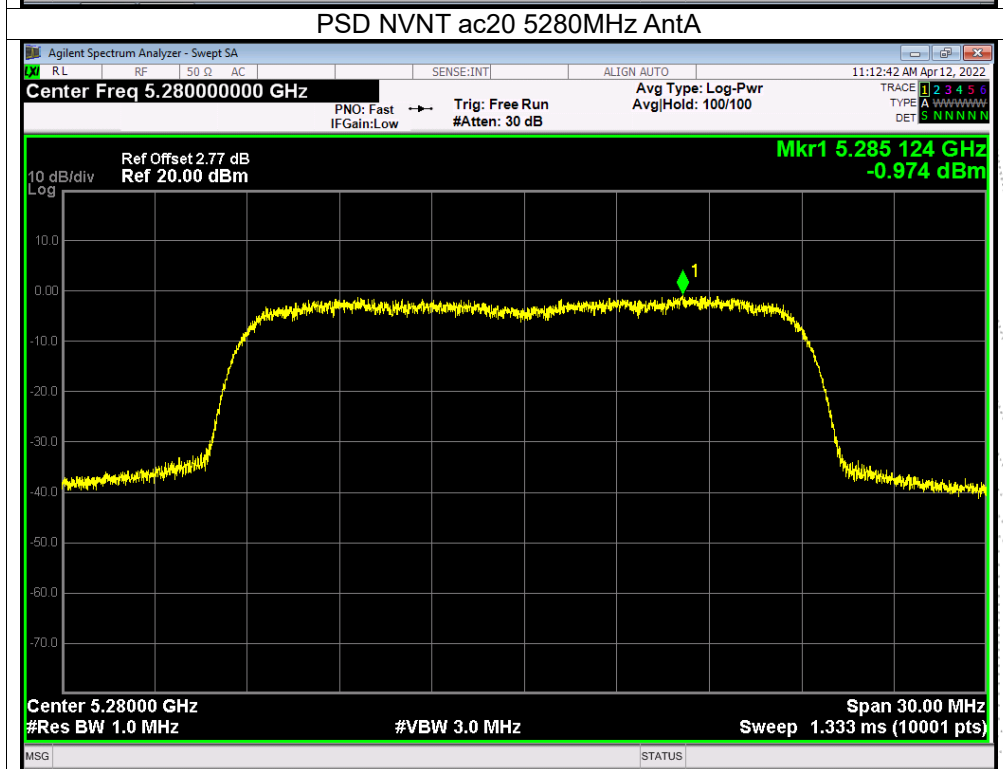
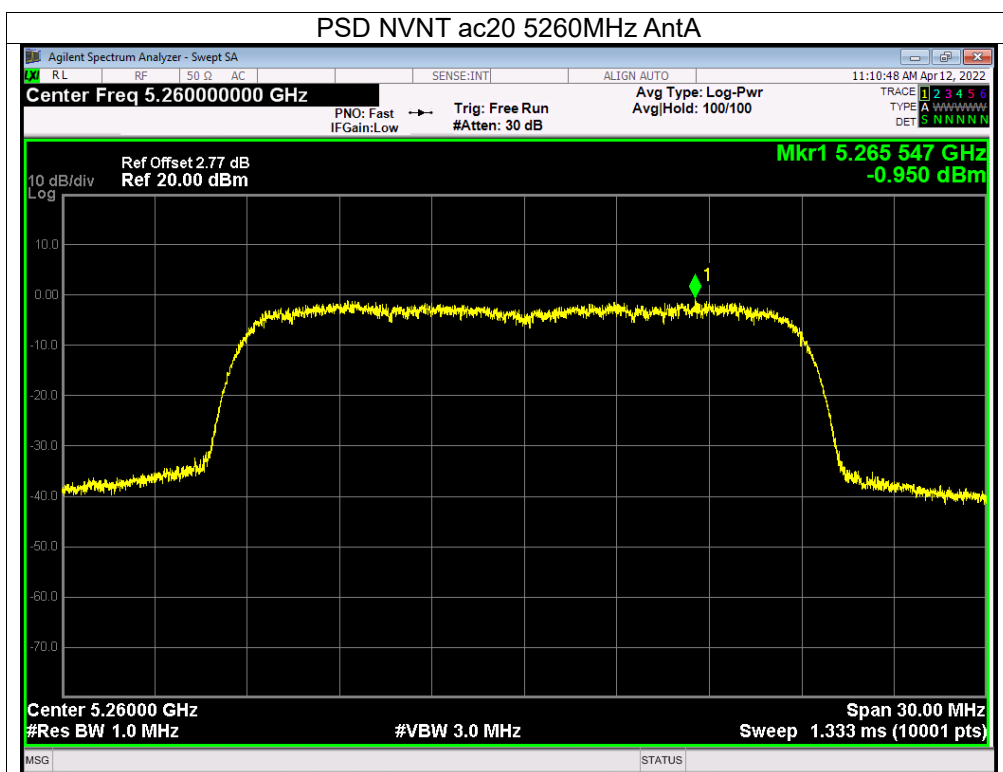
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.

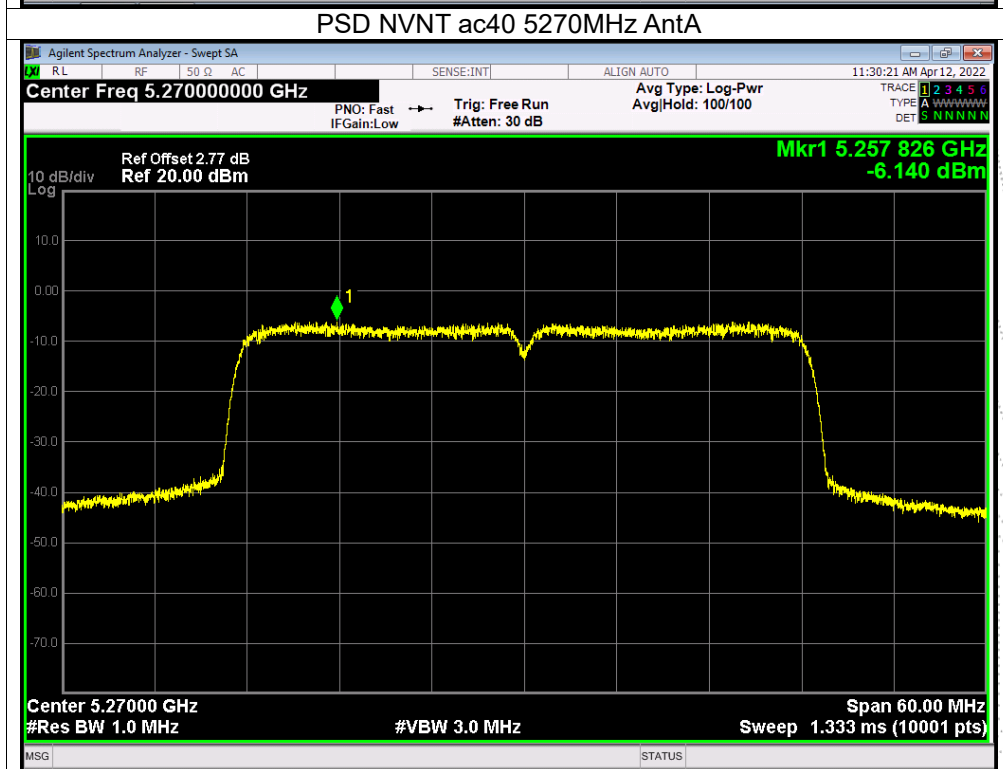
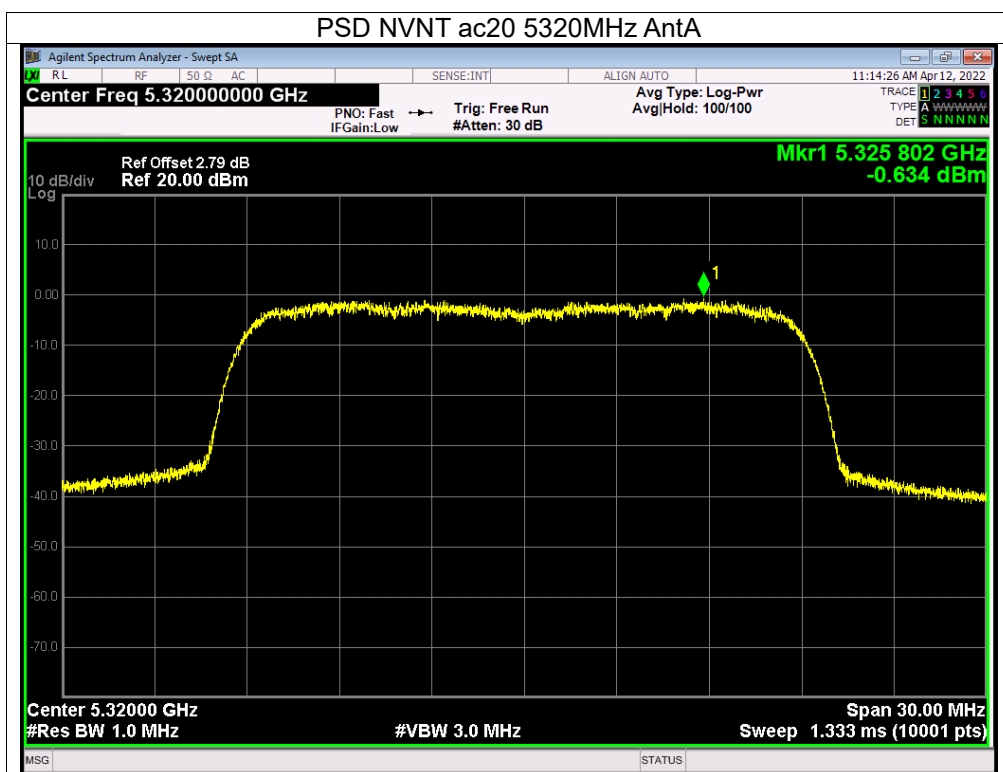


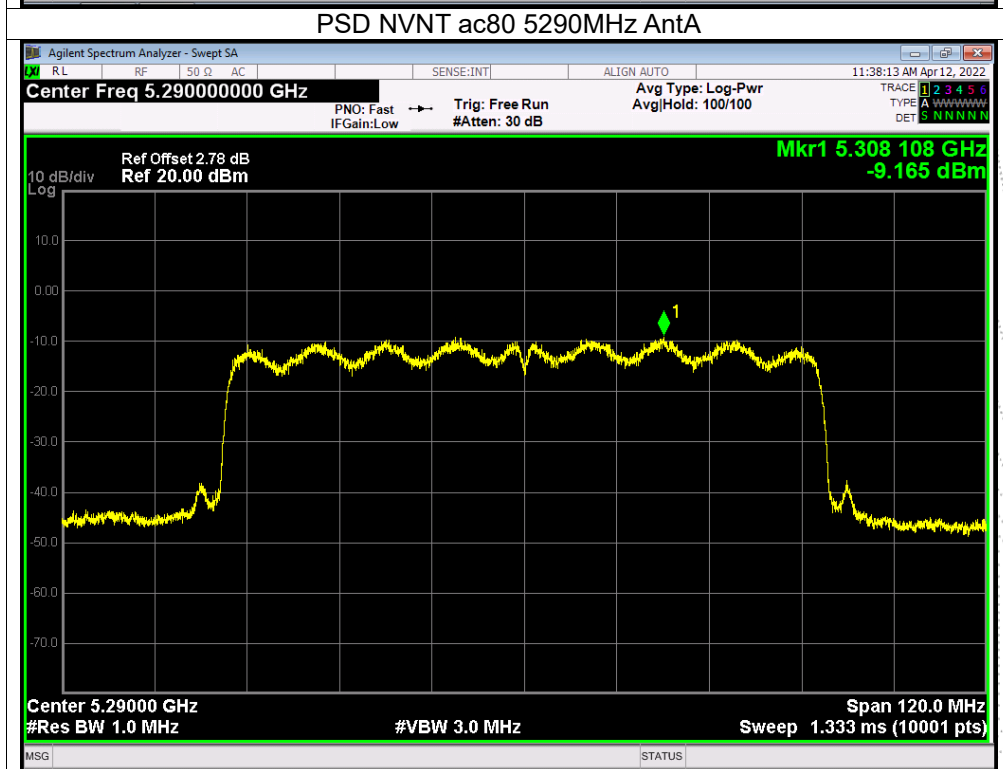
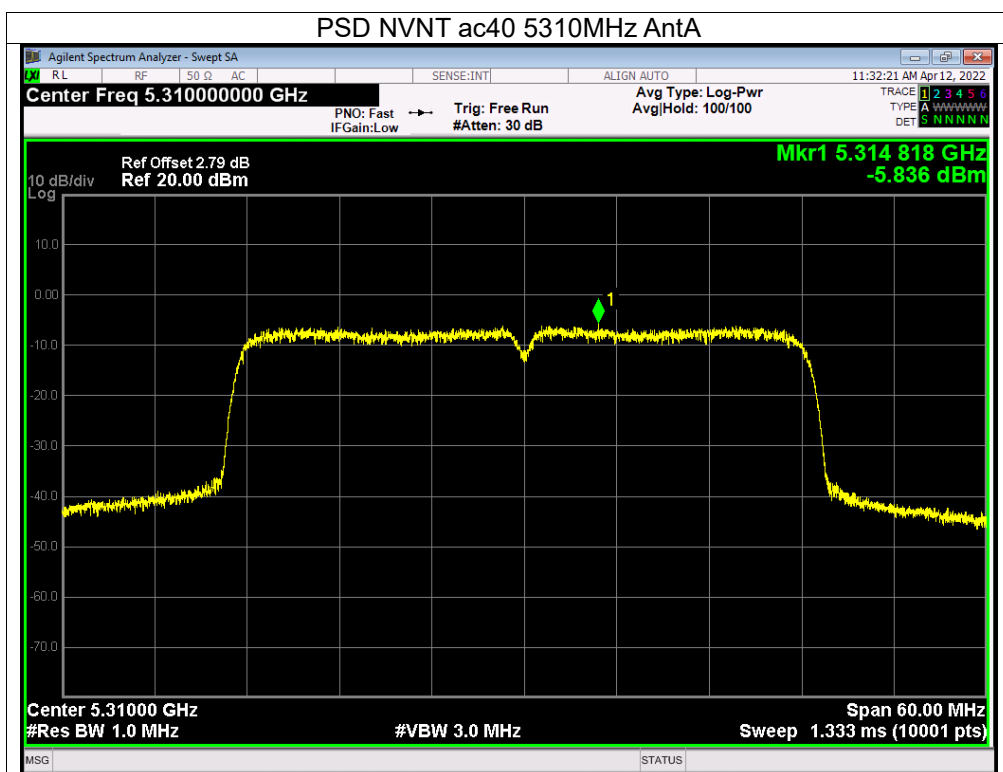












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5500-5700MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5500	0.60	0.68	/	11	Pass
NVNT	a	5600	1.41	0.99	/	11	Pass
NVNT	a	5700	1.99	1.36	/	11	Pass
NVNT	n20	5500	-1.62	-0.97	1.73	11	Pass
NVNT	n20	5600	-0.60	-0.92	2.25	11	Pass
NVNT	n20	5700	-0.16	-0.72	2.58	11	Pass
NVNT	n40	5510	-5.12	-5.65	-2.37	11	Pass
NVNT	n40	5590	-4.47	-4.78	-1.61	11	Pass
NVNT	n40	5670	-3.18	-4.04	-0.58	11	Pass
NVNT	ac20	5500	-0.48	-1.17	2.20	11	Pass
NVNT	ac20	5600	-0.43	-0.82	2.39	11	Pass
NVNT	ac20	5700	-0.11	-0.65	2.64	11	Pass
NVNT	ac40	5510	-4.71	-5.66	-2.15	11	Pass
NVNT	ac40	5590	-3.90	-4.67	-1.26	11	Pass
NVNT	ac40	5670	-3.37	-4.36	-0.83	11	Pass
NVNT	ac80	5530	-8.10	-9.00	-5.52	11	Pass
NVNT	ac80	5610	-7.19	-8.03	-4.58	11	Pass

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

