

TEST REPORT

Report No.: BCTC2310106798-2E

Applicant: NINGBO AUDITORYWORKS CO., LTD.

Product Name: Nearhub Tail

Test Model: AW-NT10

Tested Date: 2023-10-26 to 2023-12-04

Issued Date: 2023-12-05

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2BAHR-NT10

Product Name: Nearhub Tail
Trademark: N/A
Model/Type Ref.: AW-NT10
AW-NT***** ("*" can be 0-9, A-Z, a-z or blank, indicate different enclosure color, performance, sales area or customer)
Prepared For: NINGBO AUDITORYWORKS CO., LTD.
Address: 3-314 Lingqiao Road 229, Haishu District, Ningbo City, Zhejiang Province, China
Manufacturer: NINGBO AUDITORYWORKS CO., LTD.
Address: 3-314 Lingqiao Road 229, Haishu District, Ningbo City, Zhejiang Province, 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: 2023-10-26
Sample tested Date: 2023-10-26 to 2023-12-04
Issue Date: 2023-12-05
Report No.: BCTC2310106798-2E
FCC Part15 15.407
ANSI C63.10-2013
Test Standards: KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

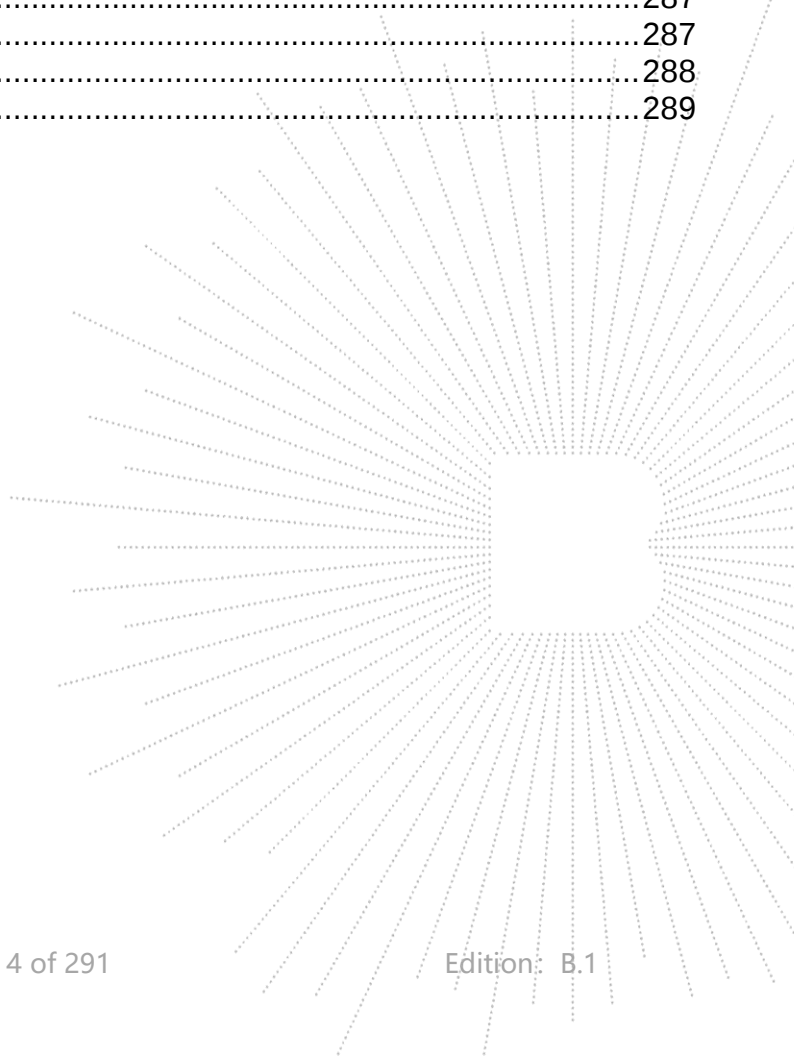
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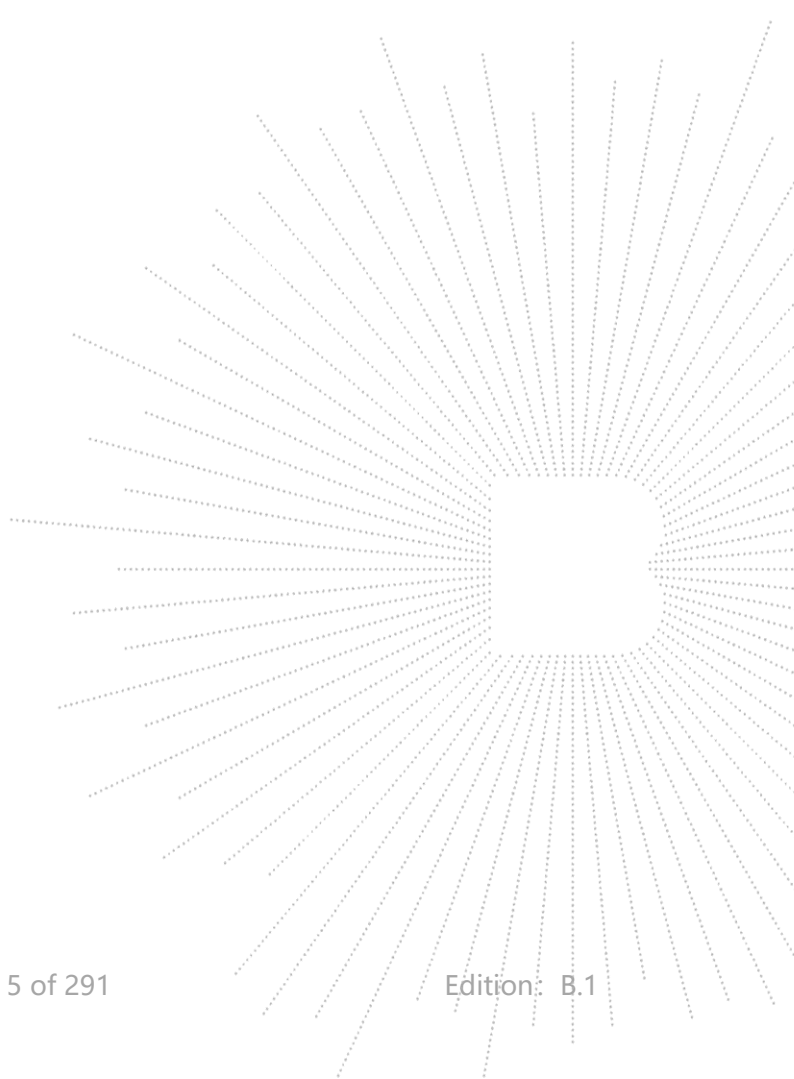
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2310106798-2E	2023-12-05	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	2.1051, 15.407 b	PASS
7	Power Spectral Density	15.407 a	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

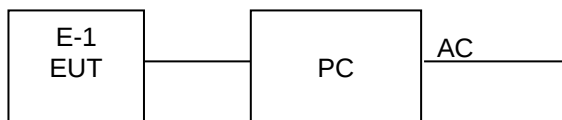
4.1 Product Information

Model/Type Ref.:	AW-NT10 AW-NT***** ("*" can be 0-9, A-Z, a-z or blank, indicate different enclosure color, performance, sales area or customer)
Model differences:	All models are the same circuit and RF modules, with differences in model name, housing color, performance, sales region, or customer. The test model is AW-NT10.
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); 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:	FPC antenna*2
Antenna Gain:	5.1G: Antenna A & B: 3.21 dBi 5.3G: Antenna A & B: 3.21 dBi 5.6G: Antenna A & B: 3.39 dBi 5.8G: Antenna A & B: 3.39 dBi
Ratings:	DC 5V
Remark:	The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information.

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	Nearhub Tail	N/A	AW-NT10	More models Ref. the 4.1	EUT
E-2	PC	Lenovo	Thinkpad S2	N/A	Auxiliary

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	SecureCRT		
Parameters	DEF	DEF	DEF

4.7 Antenna

5.1G&5.3G

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	FPC antenna	3.21	N/A
B	N/A	N/A	FPC antenna	3.21	N/A

EUT has two PCB antennas with Max gain GANT 3.21dBi 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 6.22 dBi
- 2)For power measurements,
 The Array gain=0 for $\text{NANT} \leq 4$,
 So the directional gain for Power measurements is 3.21dBi

5.6G&5.8G

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	FPC antenna	3.39	N/A
B	N/A	N/A	FPC antenna	3.39	N/A

EUT has two PCB antennas with Max gain GANT 3.39dBi 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 6.40 dBi
- 2)For power measurements,
 The Array gain=0 for $\text{NANT} \leq 4$,
 So the directional gain for Power measurements is 3.39dBi

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

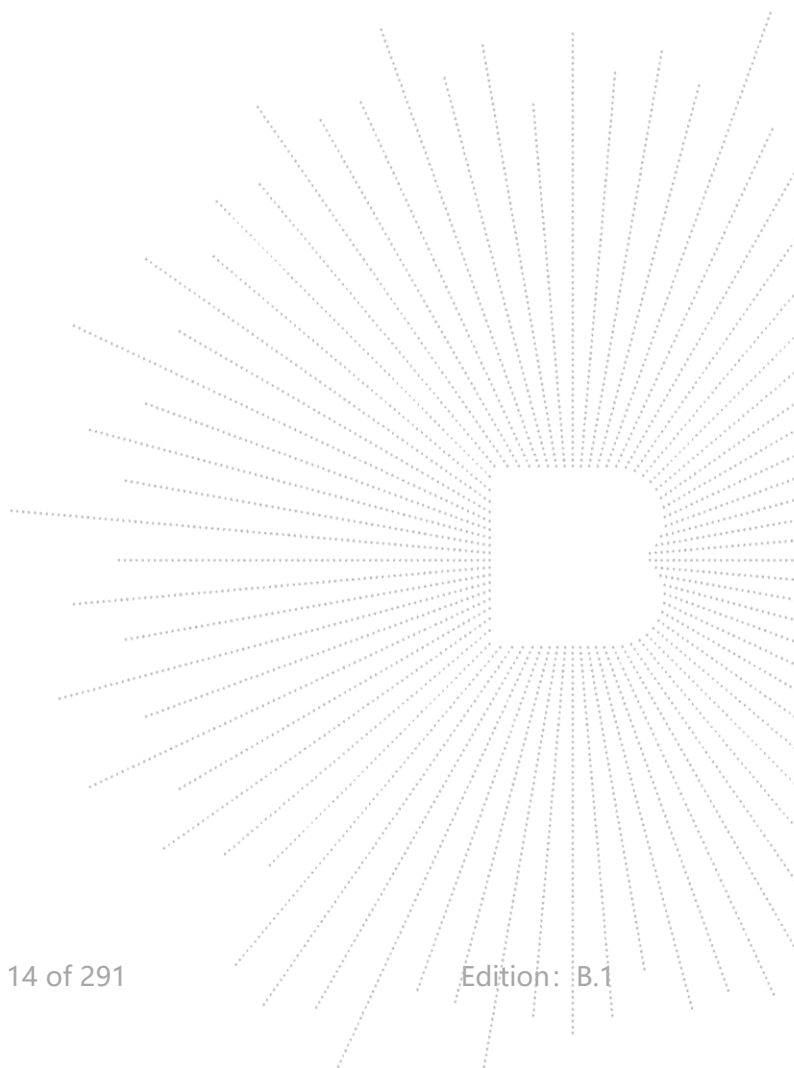
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	Sept. 22, 2023	Sept. 21, 2024

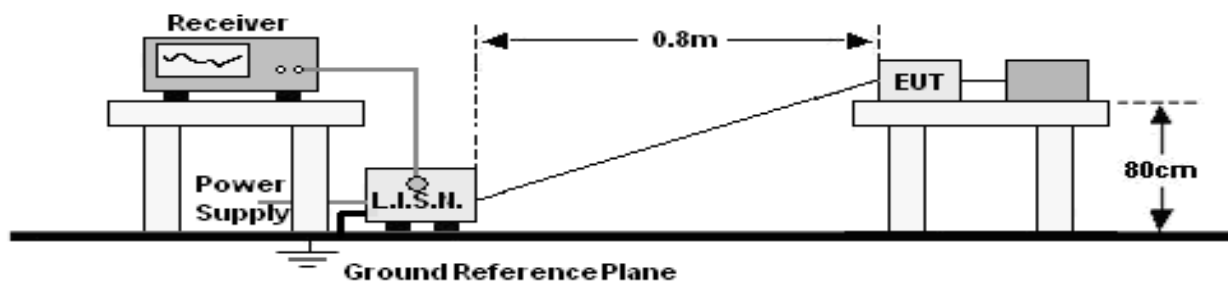
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Radio frequency control box	MAIWEI	MW100-RF CB	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
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

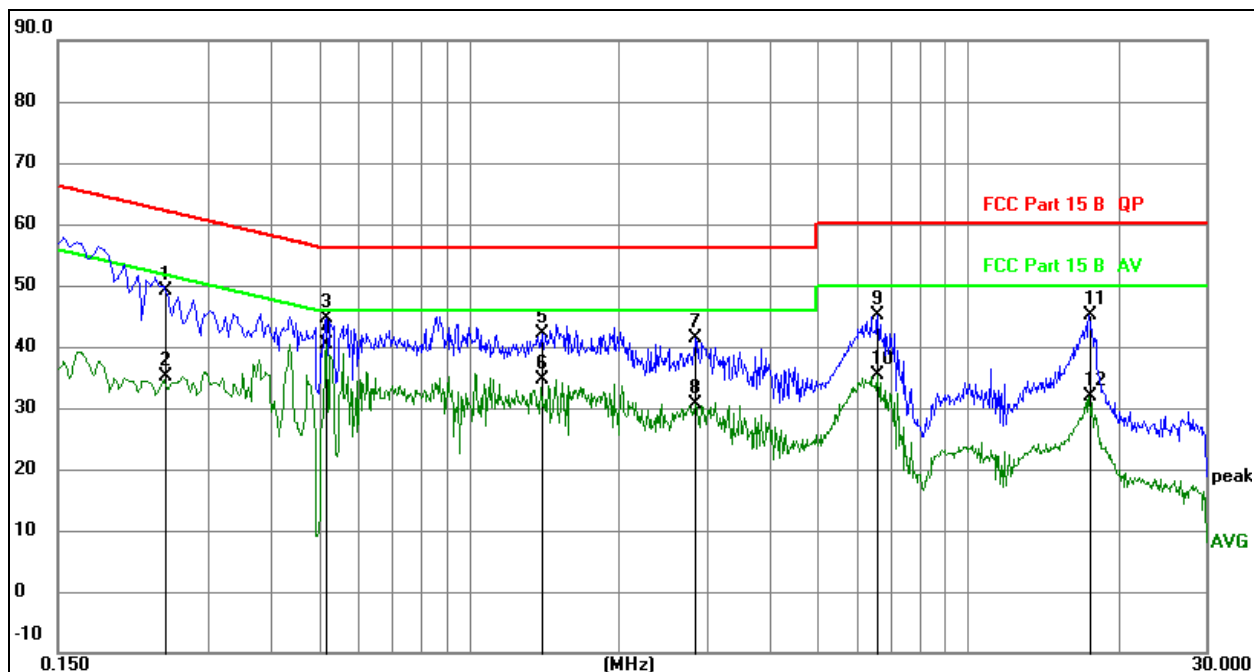
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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	Polarization :	Line
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz

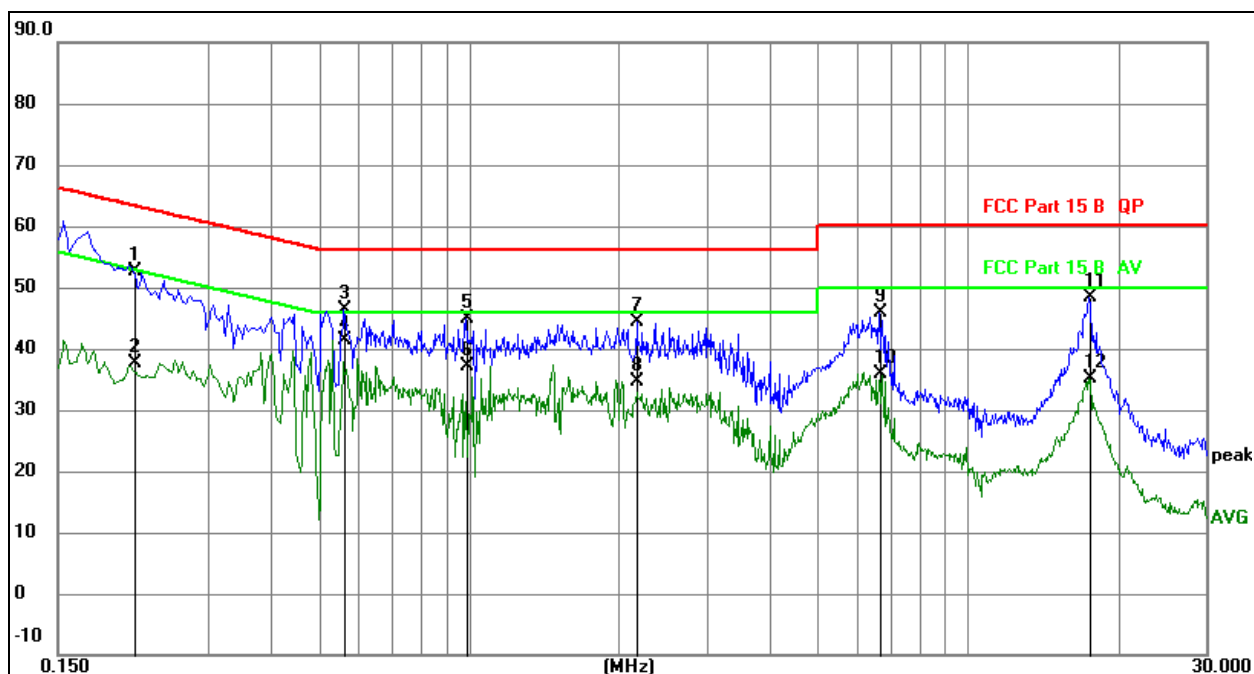


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2468	29.22	19.83	49.05	61.86	-12.81	QP
2		0.2468	15.23	19.83	35.06	51.86	-16.80	AVG
3		0.5181	24.72	19.84	44.56	56.00	-11.44	QP
4	*	0.5181	20.64	19.84	40.48	46.00	-5.52	AVG
5		1.4032	22.28	19.95	42.23	56.00	-13.77	QP
6		1.4032	14.64	19.95	34.59	46.00	-11.41	AVG
7		2.8389	21.03	20.25	41.28	56.00	-14.72	QP
8		2.8389	10.35	20.25	30.60	46.00	-15.40	AVG
9		6.5921	25.01	20.06	45.07	60.00	-14.93	QP
10		6.5921	15.23	20.06	35.29	50.00	-14.71	AVG
11		17.4750	25.16	19.93	45.09	60.00	-14.91	QP
12		17.4750	11.95	19.93	31.88	50.00	-18.12	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Polarization :	Neutral
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

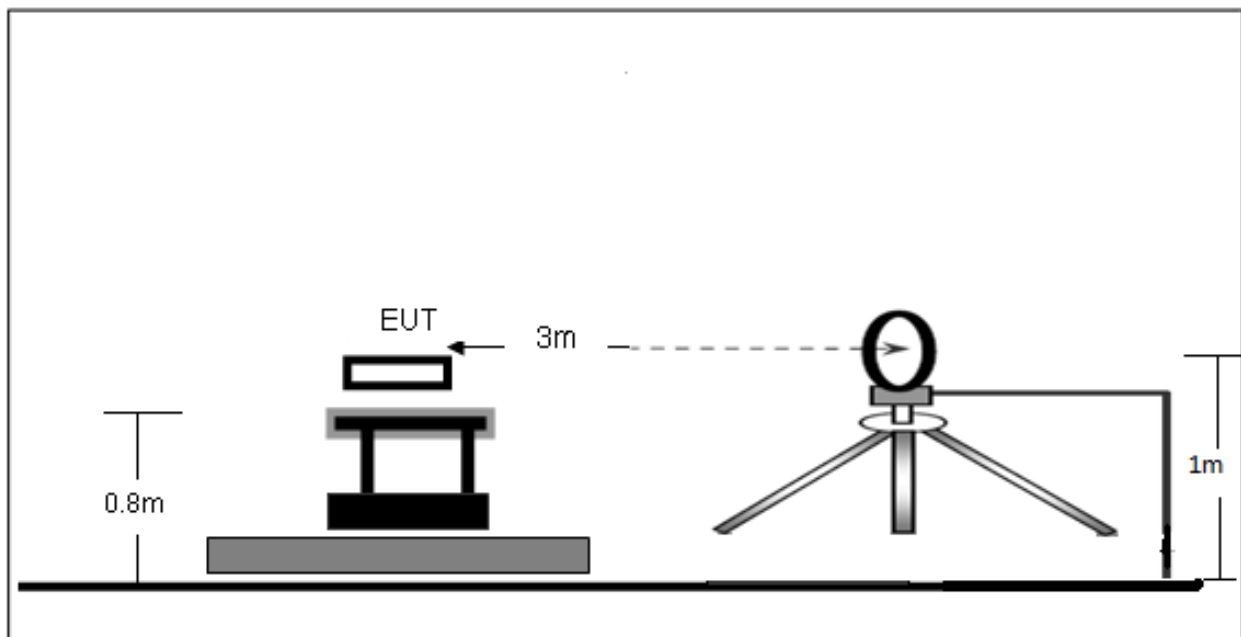
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2130	32.71	19.83	52.54	63.09	-10.55	QP
2		0.2130	17.79	19.83	37.62	53.09	-15.47	AVG
3		0.5639	26.64	19.84	46.48	56.00	-9.52	QP
4	*	0.5639	21.43	19.84	41.27	46.00	-4.73	AVG
5		0.9870	25.02	19.95	44.97	56.00	-11.03	QP
6		0.9870	17.22	19.95	37.17	46.00	-8.83	AVG
7		2.1705	24.36	20.01	44.37	56.00	-11.63	QP
8		2.1705	14.74	20.01	34.75	46.00	-11.25	AVG
9		6.6480	25.81	20.04	45.85	60.00	-14.15	QP
10		6.6480	15.96	20.04	36.00	50.00	-14.00	AVG
11		17.5560	28.37	19.94	48.31	60.00	-11.69	QP
12		17.5560	15.23	19.94	35.17	50.00	-14.83	AVG

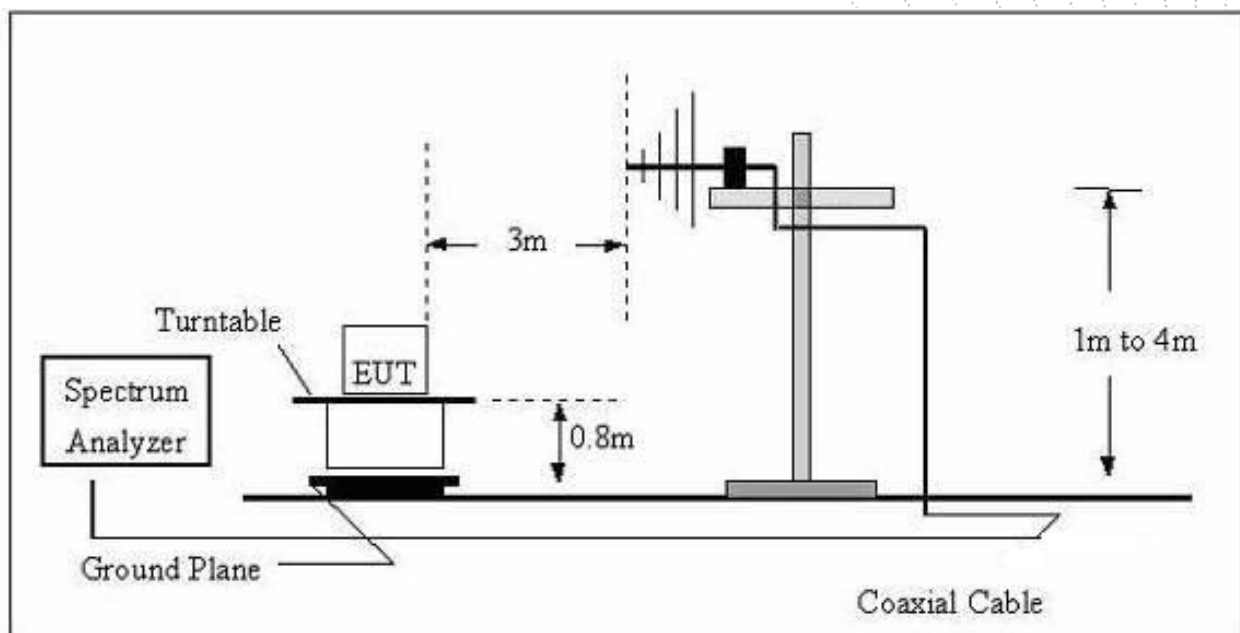
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

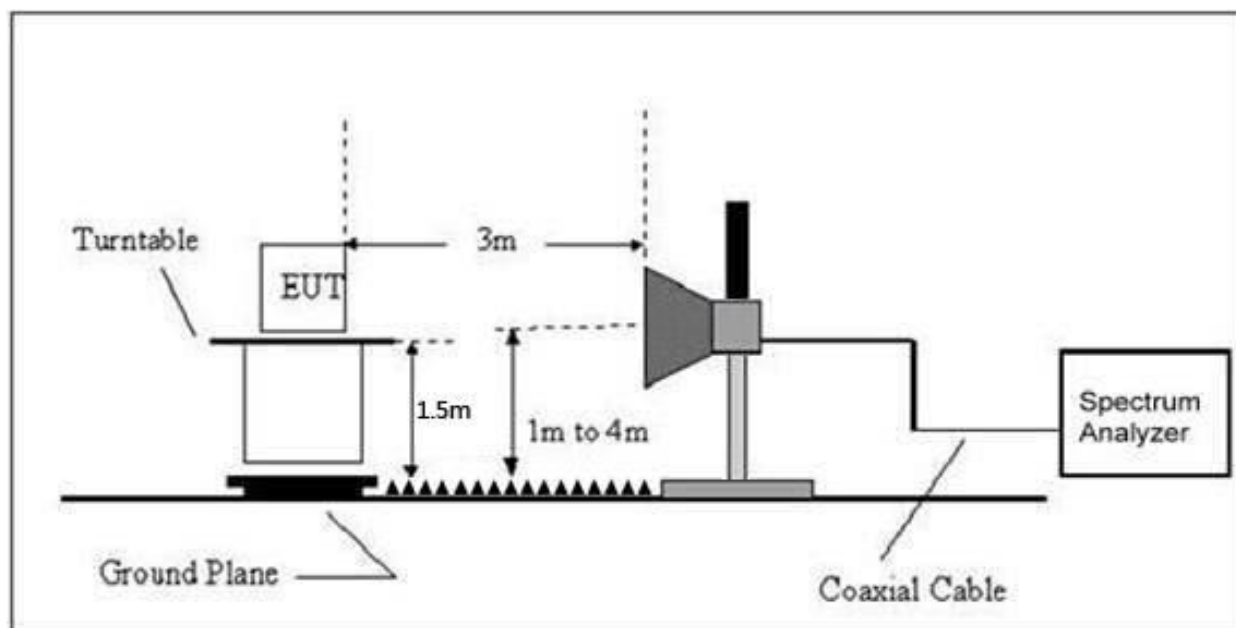
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	54%
Pressure:	101KPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Mode 4	Polarization:	---

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

Note:

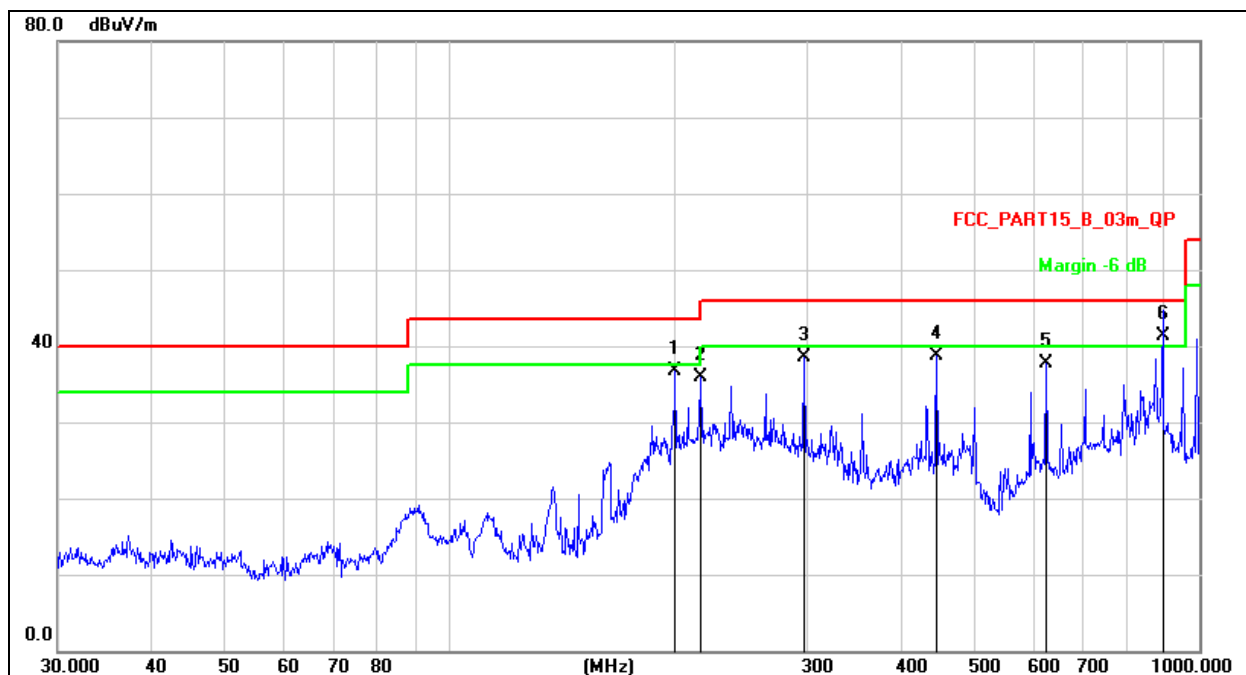
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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 4	Polarization :	Horizontal

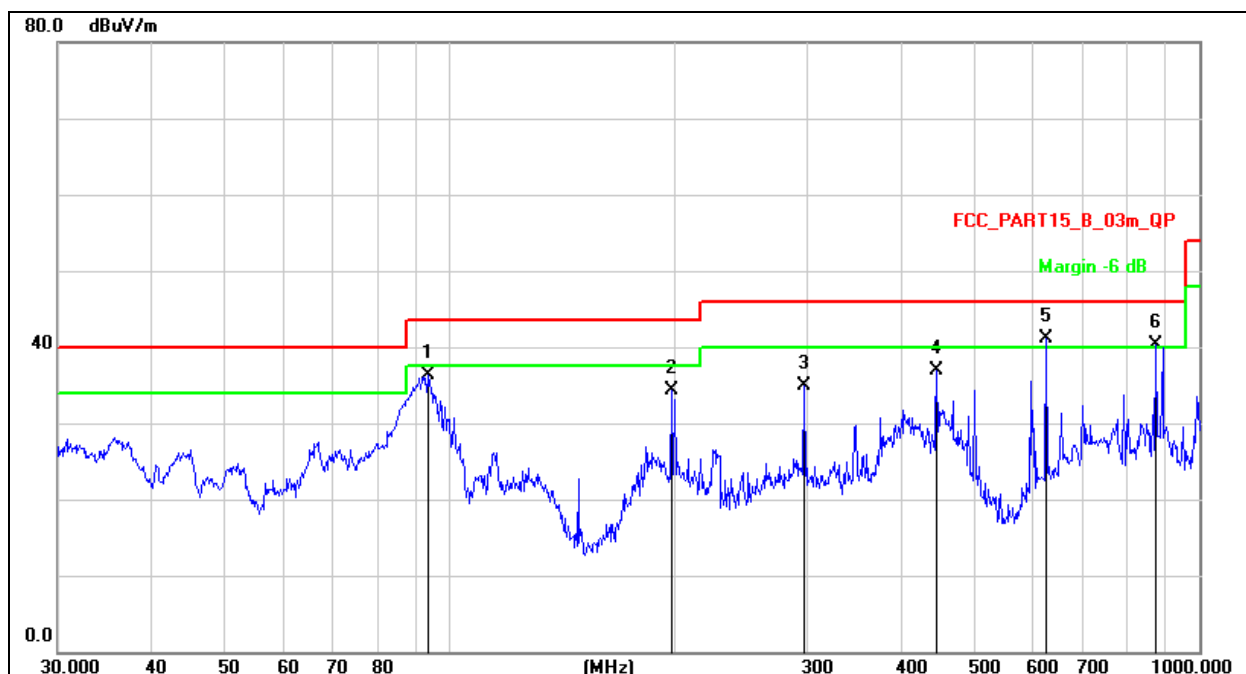


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		199.9856	52.43	-15.72	36.71	43.50	-6.79	QP
2		216.0240	51.17	-15.26	35.91	46.00	-10.09	QP
3		297.2241	51.86	-13.30	38.56	46.00	-7.44	QP
4		446.4141	48.71	-9.93	38.78	46.00	-7.22	QP
5		625.0779	44.36	-6.59	37.77	46.00	-8.23	QP
6	*	891.0797	44.66	-3.27	41.39	46.00	-4.61	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC 120V/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.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		93.4402	53.27	-16.89	36.38	43.50	-7.12	QP
2		197.8928	50.19	-15.88	34.31	43.50	-9.19	QP
3		297.2241	48.30	-13.30	35.00	46.00	-11.00	QP
4		446.4141	46.91	-9.93	36.98	46.00	-9.02	QP
5	*	625.0780	47.60	-6.59	41.01	46.00	-4.99	QP
6	!	875.2470	43.87	-3.55	40.32	46.00	-5.68	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.157	74.24	-20.73	53.51	68.2	-14.69	PK
Vertical	4434.157	59.62	-20.73	38.89	54	-15.11	AV
Vertical	10360.086	63.18	-9.36	53.82	68.2	-14.38	PK
Vertical	10360.086	49.01	-9.36	39.65	54	-14.35	AV
Vertical	15540.121	64.41	-7.84	56.57	74	-17.43	PK
Vertical	15540.121	49.04	-7.84	41.20	54	-12.80	AV
Horizontal	4434.105	74.69	-20.73	53.96	68.2	-14.24	PK
Horizontal	4434.105	59.97	-20.73	39.24	54	-14.76	AV
Horizontal	10360.145	60.98	-9.36	51.62	68.2	-16.58	PK
Horizontal	10360.145	49.72	-9.36	40.36	54	-13.64	AV
Horizontal	15540.035	64.58	-7.84	56.74	74	-17.26	PK
Horizontal	15540.035	49.64	-7.84	41.80	54	-12.20	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.039	70.38	-20.42	49.97	74	-24.03	PK
Vertical	4592.039	59.52	-20.42	39.10	54	-14.90	AV
Vertical	10400.108	64.89	-9.30	55.59	68.2	-12.61	PK
Vertical	10400.108	49.79	-9.30	40.49	54	-13.51	AV
Vertical	15600.041	63.13	-7.82	55.31	74	-18.69	PK
Vertical	15600.041	49.03	-7.82	41.21	54	-12.79	AV
Horizontal	4592.025	74.85	-20.42	54.43	74	-19.57	PK
Horizontal	4592.025	59.08	-20.42	38.67	54	-15.33	AV
Horizontal	10400.183	62.29	-9.30	52.99	68.2	-15.21	PK
Horizontal	10400.183	49.09	-9.30	39.79	54	-14.21	AV
Horizontal	15600.068	61.44	-7.82	53.62	74	-20.38	PK
Horizontal	15600.068	49.46	-7.82	41.64	54	-12.36	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.039	70.93	-20.12	50.81	74	-23.19	PK
Vertical	4739.039	59.04	-20.12	38.92	54	-15.08	AV
Vertical	10480.195	60.42	-9.18	51.24	68.2	-16.96	PK
Vertical	10480.195	49.63	-9.18	40.45	54	-13.55	AV
Vertical	15720.196	62.62	-7.78	54.84	74	-19.16	PK
Vertical	15720.196	49.91	-7.78	42.13	54	-11.87	AV
Horizontal	4739.106	71.77	-20.12	51.65	74	-22.35	PK
Horizontal	4739.106	59.44	-20.12	39.32	54	-14.68	AV
Horizontal	10480.173	62.12	-9.18	52.94	68.2	-15.26	PK
Horizontal	10480.173	49.22	-9.18	40.04	54	-13.96	AV
Horizontal	15720.094	62.55	-7.78	54.77	74	-19.23	PK
Horizontal	15720.094	49.05	-7.78	41.27	54	-12.73	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.

The worst case is Antenna A.

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.056	74.45	-20.73	53.72	68.2	-14.48	PK
Vertical	4434.056	59.15	-20.73	38.42	54	-15.58	AV
Vertical	10360.134	60.36	-9.36	51.00	68.2	-17.20	PK
Vertical	10360.134	49.28	-9.36	39.92	54	-14.08	AV
Vertical	15540.121	62.04	-7.84	54.20	74	-19.80	PK
Vertical	15540.121	49.87	-7.84	42.03	54	-11.97	AV
Horizontal	4434.125	71.85	-20.73	51.12	68.2	-17.08	PK
Horizontal	4434.125	59.75	-20.73	39.02	54	-14.98	AV
Horizontal	10360.036	60.41	-9.36	51.05	68.2	-17.15	PK
Horizontal	10360.036	49.60	-9.36	40.24	54	-13.76	AV
Horizontal	15540.034	64.38	-7.84	56.54	74	-17.46	PK
Horizontal	15540.034	49.14	-7.84	41.30	54	-12.70	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.008	71.25	-20.42	50.84	74	-23.16	PK
Vertical	4592.008	59.03	-20.42	38.61	54	-15.39	AV
Vertical	10400.049	63.19	-9.30	53.89	68.2	-14.31	PK
Vertical	10400.049	49.46	-9.30	40.16	54	-13.84	AV
Vertical	15600.122	61.92	-7.82	54.10	74	-19.90	PK
Vertical	15600.122	49.61	-7.82	41.79	54	-12.21	AV
Horizontal	4592.123	72.47	-20.42	52.06	74	-21.94	PK
Horizontal	4592.123	59.92	-20.42	39.51	54	-14.49	AV
Horizontal	10400.003	64.78	-9.30	55.48	68.2	-12.72	PK
Horizontal	10400.003	49.49	-9.30	40.19	54	-13.81	AV
Horizontal	15600.112	62.98	-7.82	55.16	74	-18.84	PK
Horizontal	15600.112	49.73	-7.82	41.91	54	-12.09	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.187	74.48	-20.12	54.35	74	-19.65	PK
Vertical	4739.187	59.18	-20.12	39.06	54	-14.94	AV
Vertical	10480.169	61.80	-9.18	52.62	68.2	-15.58	PK
Vertical	10480.169	49.07	-9.18	39.89	54	-14.11	AV
Vertical	15720.006	62.70	-7.78	54.92	74	-19.08	PK
Vertical	15720.006	49.48	-7.78	41.70	54	-12.30	AV
Horizontal	4739.142	70.54	-20.12	50.42	74	-23.58	PK
Horizontal	4739.142	59.77	-20.12	39.64	54	-14.36	AV
Horizontal	10480.132	62.17	-9.18	52.99	68.2	-15.21	PK
Horizontal	10480.132	49.83	-9.18	40.65	54	-13.35	AV
Horizontal	15720.181	61.58	-7.78	53.80	74	-20.20	PK
Horizontal	15720.181	49.83	-7.78	42.05	54	-11.95	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.096	72.18	-20.73	51.45	68.2	-16.75	PK
Vertical	4434.096	59.65	-20.73	38.91	54	-15.09	AV
Vertical	10380.002	61.49	-9.33	52.16	68.2	-16.04	PK
Vertical	10380.002	49.72	-9.33	40.39	54	-13.61	AV
Vertical	15570.072	60.38	-7.83	52.55	74	-21.45	PK
Vertical	15570.072	49.31	-7.83	41.48	54	-12.52	AV
Horizontal	4434.130	70.51	-20.73	49.78	74	-24.22	PK
Horizontal	4434.130	59.47	-20.73	38.74	54	-15.26	AV
Horizontal	10380.164	62.96	-9.33	53.63	68.2	-14.57	PK
Horizontal	10380.164	49.86	-9.33	40.53	54	-13.47	AV
Horizontal	15570.013	60.26	-7.83	52.43	74	-21.57	PK
Horizontal	15570.013	49.02	-7.83	41.19	54	-12.81	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.181	72.26	-20.12	52.14	68.2	-16.06	PK
Vertical	4739.181	59.47	-20.12	39.35	54	-14.65	AV
Vertical	10460.140	61.58	-9.21	52.37	68.2	-15.83	PK
Vertical	10460.140	49.70	-9.21	40.49	54	-13.51	AV
Vertical	15690.070	63.41	-7.79	55.62	74	-18.38	PK
Vertical	15690.070	50.00	-7.79	42.21	54	-11.79	AV
Horizontal	4739.077	70.23	-20.12	50.10	68.2	-18.10	PK
Horizontal	4739.077	59.03	-20.12	38.91	54	-15.09	AV
Horizontal	10460.100	61.22	-9.21	52.01	68.2	-16.19	PK
Horizontal	10460.100	49.02	-9.21	39.81	54	-14.19	AV
Horizontal	15690.048	63.69	-7.79	55.90	74	-18.10	PK
Horizontal	15690.048	49.10	-7.79	41.31	54	-12.69	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(5.1G) - 802.11ac-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.065	73.59	-20.73	52.86	68.2	-15.34	PK
Vertical	4434.065	59.96	-20.73	39.23	54	-14.77	AV
Vertical	10360.040	61.38	-9.36	52.02	68.2	-16.18	PK
Vertical	10360.040	49.77	-9.36	40.41	54	-13.59	AV
Vertical	15540.080	64.85	-7.84	57.01	74	-16.99	PK
Vertical	15540.080	49.50	-7.84	41.66	54	-12.34	AV
Horizontal	4434.154	71.35	-20.73	50.62	68.2	-17.58	PK
Horizontal	4434.154	59.41	-20.73	38.68	54	-15.32	AV
Horizontal	10360.058	64.69	-9.36	55.33	68.2	-12.87	PK
Horizontal	10360.058	49.93	-9.36	40.57	54	-13.43	AV
Horizontal	15540.089	64.22	-7.84	56.38	74	-17.62	PK
Horizontal	15540.089	49.41	-7.84	41.57	54	-12.43	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.101	71.36	-20.42	50.95	74	-23.05	PK
Vertical	4592.101	59.14	-20.42	38.72	54	-15.28	AV
Vertical	10400.128	63.25	-9.30	53.95	68.2	-14.25	PK
Vertical	10400.128	49.66	-9.30	40.36	54	-13.64	AV
Vertical	15600.025	60.53	-7.82	52.71	74	-21.29	PK
Vertical	15600.025	49.38	-7.82	41.56	54	-12.44	AV
Horizontal	4592.042	73.91	-20.42	53.50	74	-20.50	PK
Horizontal	4592.042	59.83	-20.42	39.41	54	-14.59	AV
Horizontal	10400.126	60.16	-9.30	50.86	68.2	-17.34	PK
Horizontal	10400.126	49.62	-9.30	40.32	54	-13.68	AV
Horizontal	15600.147	64.20	-7.82	56.38	74	-17.62	PK
Horizontal	15600.147	49.45	-7.82	41.63	54	-12.37	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.083	71.46	-20.12	51.34	74	-22.66	PK
Vertical	4739.083	59.21	-20.12	39.09	54	-14.91	AV
Vertical	10480.172	63.46	-9.18	54.28	68.2	-13.92	PK
Vertical	10480.172	49.22	-9.18	40.04	54	-13.96	AV
Vertical	15720.030	60.53	-7.78	52.75	74	-21.25	PK
Vertical	15720.030	49.41	-7.78	41.63	54	-12.37	AV
Horizontal	4739.100	73.49	-20.12	53.37	74	-20.63	PK
Horizontal	4739.100	59.40	-20.12	39.28	54	-14.72	AV
Horizontal	10480.029	62.19	-9.18	53.01	68.2	-15.19	PK
Horizontal	10480.029	49.02	-9.18	39.84	54	-14.16	AV
Horizontal	15720.052	61.19	-7.78	53.41	74	-20.59	PK
Horizontal	15720.052	49.24	-7.78	41.46	54	-12.54	AV

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

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.123	71.94	-20.73	51.21	68.2	-16.99	PK
Vertical	4434.123	59.10	-20.73	38.37	54	-15.63	AV
Vertical	10380.184	63.87	-9.33	54.54	68.2	-13.66	PK
Vertical	10380.184	49.71	-9.33	40.38	54	-13.62	AV
Vertical	15570.184	62.61	-7.83	54.78	74	-19.22	PK
Vertical	15570.184	49.75	-7.83	41.92	54	-12.08	AV
Horizontal	4434.050	73.99	-20.73	53.25	74	-20.75	PK
Horizontal	4434.050	59.02	-20.73	38.29	54	-15.71	AV
Horizontal	10380.161	60.93	-9.33	51.60	68.2	-16.60	PK
Horizontal	10380.161	49.50	-9.33	40.17	54	-13.83	AV
Horizontal	15570.070	61.79	-7.83	53.96	74	-20.04	PK
Horizontal	15570.070	49.40	-7.83	41.57	54	-12.43	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.015	73.08	-20.12	52.95	68.2	-15.25	PK
Vertical	4739.015	59.61	-20.12	39.49	54	-14.51	AV
Vertical	10460.170	61.44	-9.21	52.23	68.2	-15.97	PK
Vertical	10460.170	49.81	-9.21	40.60	54	-13.40	AV
Vertical	15690.200	61.31	-7.79	53.52	74	-20.48	PK
Vertical	15690.200	49.89	-7.79	42.10	54	-11.90	AV
Horizontal	4739.165	72.26	-20.12	52.13	68.2	-16.07	PK
Horizontal	4739.165	59.75	-20.12	39.63	54	-14.37	AV
Horizontal	10460.196	61.27	-9.21	52.06	68.2	-16.14	PK
Horizontal	10460.196	49.69	-9.21	40.48	54	-13.52	AV
Horizontal	15690.186	61.05	-7.79	53.26	74	-20.74	PK
Horizontal	15690.186	49.32	-7.79	41.53	54	-12.47	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	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5121 MHz)-Above 1G							
Vertical	4434.043	71.43	-20.73	50.69	68.2	-17.51	PK
Vertical	4434.043	59.15	-20.73	38.42	54	-15.58	AV
Vertical	10420.053	64.77	-9.27	55.50	68.2	-12.70	PK
Vertical	10420.053	49.12	-9.27	39.85	54	-14.15	AV
Vertical	15630.195	61.86	-7.81	54.05	74	-19.95	PK
Vertical	15630.195	49.52	-7.81	41.71	54	-12.29	AV
Horizontal	4434.197	72.60	-20.73	51.87	68.2	-16.33	PK
Horizontal	4434.197	49.61	-20.73	28.88	54	-25.12	AV
Horizontal	10420.001	42.50	9.27	51.77	68.2	-16.43	PK
Horizontal	10420.001	29.89	9.27	39.16	54	-14.84	AV
Horizontal	15630.120	64.09	-7.81	56.28	74	-17.72	PK
Horizontal	15630.120	49.26	-7.81	41.45	54	-12.55	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) - 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.110	71.29	-20.73	50.56	68.2	-17.64	PK
Vertical	4434.110	59.53	-20.73	38.79	54	-15.21	AV
Vertical	10520.174	61.05	-9.12	51.93	68.2	-16.27	PK
Vertical	10520.174	49.18	-9.12	40.06	54	-13.94	AV
Vertical	15780.012	63.58	-7.77	55.81	74	-18.19	PK
Vertical	15780.012	49.32	-7.77	41.55	54	-12.45	AV
Horizontal	4434.178	70.57	-20.73	49.84	68.2	-18.36	PK
Horizontal	4434.178	59.15	-20.73	38.42	54	-15.58	AV
Horizontal	10520.024	61.82	-9.12	52.70	68.2	-15.50	PK
Horizontal	10520.024	49.55	-9.12	40.43	54	-13.57	AV
Horizontal	15780.172	62.21	-7.77	54.44	74	-19.56	PK
Horizontal	15780.172	49.19	-7.77	41.42	54	-12.58	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.039	73.40	-20.42	52.98	74	-21.02	PK
Vertical	4592.039	59.05	-20.42	38.64	54	-15.36	AV
Vertical	10560.101	61.87	-9.06	52.81	68.2	-15.39	PK
Vertical	10560.101	49.88	-9.06	40.82	54	-13.18	AV
Vertical	15840.077	64.03	-7.75	56.28	74	-17.72	PK
Vertical	15840.077	49.73	-7.75	41.98	54	-12.02	AV
Horizontal	4592.116	74.73	-20.42	54.31	74	-19.69	PK
Horizontal	4592.116	59.19	-20.42	38.77	54	-15.23	AV
Horizontal	10560.147	62.08	-9.06	53.02	68.2	-15.18	PK
Horizontal	10560.147	49.33	-9.06	40.27	54	-13.73	AV
Horizontal	15840.093	63.63	-7.75	55.88	74	-18.12	PK
Horizontal	15840.093	49.35	-7.75	41.60	54	-12.40	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.075	70.25	-20.12	50.13	74	-23.87	PK
Vertical	4739.075	59.49	-20.12	39.37	54	-14.63	AV
Vertical	10640.138	63.34	-8.94	54.40	68.2	-13.80	PK
Vertical	10640.138	49.65	-8.94	40.71	54	-13.29	AV
Vertical	15960.148	60.39	-7.71	52.68	74	-21.32	PK
Vertical	15960.148	49.07	-7.71	41.36	54	-12.64	AV
Horizontal	4739.170	70.29	-20.12	50.17	74	-23.83	PK
Horizontal	4739.170	59.82	-20.12	39.69	54	-14.31	AV
Horizontal	10640.058	61.16	-8.94	52.22	68.2	-15.98	PK
Horizontal	10640.058	49.92	-8.94	40.98	54	-13.02	AV
Horizontal	15960.102	64.36	-7.71	56.65	74	-17.35	PK
Horizontal	15960.102	49.47	-7.71	41.76	54	-12.24	AV

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

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

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

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

The worst case is Antenna A.

Test Mode:	TX(5.3G) - 802.11n-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.042	73.06	-20.73	52.33	68.2	-15.87	PK
Vertical	4434.042	59.81	-20.73	39.08	54	-14.92	AV
Vertical	10520.117	61.67	-9.12	52.55	68.2	-15.65	PK
Vertical	10520.117	49.07	-9.12	39.95	54	-14.05	AV
Vertical	15780.073	64.39	-7.77	56.62	74	-17.38	PK
Vertical	15780.073	49.38	-7.77	41.61	54	-12.39	AV
Horizontal	4434.129	73.54	-20.73	52.81	68.2	-15.39	PK
Horizontal	4434.129	59.85	-20.73	39.12	54	-14.88	AV
Horizontal	10520.027	61.00	-9.12	51.88	68.2	-16.32	PK
Horizontal	10520.027	49.20	-9.12	40.08	54	-13.92	AV
Horizontal	15780.085	64.71	-7.77	56.94	74	-17.06	PK
Horizontal	15780.085	49.80	-7.77	42.03	54	-11.97	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.050	74.56	-20.42	54.14	74	-19.86	PK
Vertical	4592.050	59.60	-20.42	39.18	54	-14.82	AV
Vertical	10560.186	64.06	-9.06	55.00	68.2	-13.20	PK
Vertical	10560.186	49.12	-9.06	40.06	54	-13.94	AV
Vertical	15840.127	61.08	-7.75	53.33	74	-20.67	PK
Vertical	15840.127	49.05	-7.75	41.30	54	-12.70	AV
Horizontal	4592.079	70.62	-20.42	50.21	74	-23.79	PK
Horizontal	4592.079	59.92	-20.42	39.50	54	-14.50	AV
Horizontal	10560.041	60.78	-9.06	51.72	68.2	-16.48	PK
Horizontal	10560.041	49.65	-9.06	40.59	54	-13.41	AV
Horizontal	15840.085	63.77	-7.75	56.02	74	-17.98	PK
Horizontal	15840.085	49.33	-7.75	41.58	54	-12.42	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.087	72.21	-20.12	52.09	74	-21.91	PK
Vertical	4739.087	59.85	-20.12	39.72	54	-14.28	AV
Vertical	10640.103	63.78	-8.94	54.84	68.2	-13.36	PK
Vertical	10640.103	49.19	-8.94	40.25	54	-13.75	AV
Vertical	15960.030	60.14	-7.71	52.43	74	-21.57	PK
Vertical	15960.030	49.48	-7.71	41.77	54	-12.23	AV
Horizontal	4739.043	70.60	-20.12	50.47	74	-23.53	PK
Horizontal	4739.043	59.96	-20.12	39.84	54	-14.16	AV
Horizontal	10640.143	63.99	-8.94	55.05	68.2	-13.15	PK
Horizontal	10640.143	49.32	-8.94	40.38	54	-13.62	AV
Horizontal	15960.194	60.60	-7.71	52.89	74	-21.11	PK
Horizontal	15960.194	49.78	-7.71	42.07	54	-11.93	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)	Fre quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.196	72.52	-20.73	51.79	68.2	-16.41	PK
Vertical	4434.196	59.49	-20.73	38.76	54	-15.24	AV
Vertical	10540.025	64.96	-9.09	55.87	68.2	-12.33	PK
Vertical	10540.025	49.31	-9.09	40.22	54	-13.78	AV
Vertical	15810.183	62.28	-7.76	54.52	74	-19.48	PK
Vertical	15810.183	49.75	-7.76	41.99	54	-12.01	AV
Horizontal	4434.189	74.87	-20.73	54.14	74	-19.86	PK
Horizontal	4434.189	59.71	-20.73	38.98	54	-15.02	AV
Horizontal	10540.122	64.01	-9.09	54.92	68.2	-13.28	PK
Horizontal	10540.122	49.73	-9.09	40.64	54	-13.36	AV
Horizontal	15810.141	64.03	-7.76	56.27	74	-17.73	PK
Horizontal	15810.141	49.99	-7.76	42.23	54	-11.77	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.096	74.59	-20.12	54.47	68.2	-13.73	PK
Vertical	4739.096	59.20	-20.12	39.08	54	-14.92	AV
Vertical	10620.060	63.18	-8.97	54.21	68.2	-13.99	PK
Vertical	10620.060	49.20	-8.97	40.23	54	-13.77	AV
Vertical	15930.154	61.25	-7.72	53.53	74	-20.47	PK
Vertical	15930.154	49.04	-7.72	41.32	54	-12.68	AV
Horizontal	4739.063	74.23	-20.12	54.11	68.2	-14.09	PK
Horizontal	4739.063	59.42	-20.12	39.29	54	-14.71	AV
Horizontal	10620.053	64.82	-8.97	55.85	68.2	-12.35	PK
Horizontal	10620.053	49.39	-8.97	40.42	54	-13.58	AV
Horizontal	15930.138	60.10	-7.72	52.38	74	-21.62	PK
Horizontal	15930.138	49.54	-7.72	41.82	54	-12.18	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(5.3G) - 802.11ac-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.151	70.30	-20.73	49.57	68.2	-18.63	PK
Vertical	4434.151	59.87	-20.73	39.13	54	-14.87	AV
Vertical	10520.063	63.98	-9.12	54.86	68.2	-13.34	PK
Vertical	10520.063	49.90	-9.12	40.78	54	-13.22	AV
Vertical	15780.142	61.06	-7.77	53.29	74	-20.71	PK
Vertical	15780.142	49.34	-7.77	41.57	54	-12.43	AV
Horizontal	4434.080	72.07	-20.73	51.34	68.2	-16.86	PK
Horizontal	4434.080	59.56	-20.73	38.83	54	-15.17	AV
Horizontal	10520.082	63.67	-9.12	54.55	68.2	-13.65	PK
Horizontal	10520.082	49.58	-9.12	40.46	54	-13.54	AV
Horizontal	15780.130	60.98	-7.77	53.21	74	-20.79	PK
Horizontal	15780.130	49.21	-7.77	41.44	54	-12.56	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.108	72.87	-20.42	52.45	74	-21.55	PK
Vertical	4592.108	59.80	-20.42	39.39	54	-14.61	AV
Vertical	10560.168	60.35	-9.06	51.29	68.2	-16.91	PK
Vertical	10560.168	49.26	-9.06	40.20	54	-13.80	AV
Vertical	15840.009	64.04	-7.75	56.29	74	-17.71	PK
Vertical	15840.009	49.45	-7.75	41.70	54	-12.30	AV
Horizontal	4592.099	74.91	-20.42	54.49	74	-19.51	PK
Horizontal	4592.099	59.26	-20.42	38.84	54	-15.16	AV
Horizontal	10560.093	60.22	-9.06	51.16	68.2	-17.04	PK
Horizontal	10560.093	49.57	-9.06	40.51	54	-13.49	AV
Horizontal	15840.015	63.07	-7.75	55.32	74	-18.68	PK
Horizontal	15840.015	49.41	-7.75	41.66	54	-12.34	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.090	74.41	-20.12	54.29	74	-19.71	PK
Vertical	4739.090	59.79	-20.12	39.66	54	-14.34	AV
Vertical	10640.040	63.60	-8.94	54.66	68.2	-13.54	PK
Vertical	10640.040	49.97	-8.94	41.03	54	-12.97	AV
Vertical	15960.181	60.10	-7.71	52.39	74	-21.61	PK
Vertical	15960.181	49.01	-7.71	41.30	54	-12.70	AV
Horizontal	4739.101	73.02	-20.12	52.90	74	-21.10	PK
Horizontal	4739.101	59.80	-20.12	39.68	54	-14.32	AV
Horizontal	10640.165	62.39	-8.94	53.45	68.2	-14.75	PK
Horizontal	10640.165	49.83	-8.94	40.89	54	-13.11	AV
Horizontal	15960.076	64.80	-7.71	57.09	74	-16.91	PK
Horizontal	15960.076	49.18	-7.71	41.47	54	-12.53	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)	Fre quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.085	73.76	-20.73	53.02	68.2	-15.18	PK
Vertical	4434.085	59.22	-20.73	38.49	54	-15.51	AV
Vertical	10540.177	61.50	-9.09	52.41	68.2	-15.79	PK
Vertical	10540.177	49.22	-9.09	40.13	54	-13.87	AV
Vertical	15810.057	60.00	-7.76	52.24	74	-21.76	PK
Vertical	15810.057	49.61	-7.76	41.85	54	-12.15	AV
Horizontal	4434.050	71.68	-20.73	50.95	74	-23.05	PK
Horizontal	4434.050	59.69	-20.73	38.96	54	-15.04	AV
Horizontal	10540.065	62.31	-9.09	53.22	68.2	-14.98	PK
Horizontal	10540.065	49.86	-9.09	40.77	54	-13.23	AV
Horizontal	15810.128	64.57	-7.76	56.81	74	-17.19	PK
Horizontal	15810.128	49.60	-7.76	41.84	54	-12.16	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.107	70.21	-20.12	50.09	68.2	-18.11	PK
Vertical	4739.107	59.38	-20.12	39.26	54	-14.74	AV
Vertical	10620.027	62.25	-8.97	53.28	68.2	-14.92	PK
Vertical	10620.027	49.40	-8.97	40.43	54	-13.57	AV
Vertical	15930.053	62.26	-7.72	54.54	74	-19.46	PK
Vertical	15930.053	49.77	-7.72	42.05	54	-11.95	AV
Horizontal	4739.004	70.02	-20.12	49.89	68.2	-18.31	PK
Horizontal	4739.004	59.00	-20.12	38.88	54	-15.12	AV
Horizontal	10620.140	61.23	-8.97	52.26	68.2	-15.94	PK
Horizontal	10620.140	49.99	-8.97	41.02	54	-12.98	AV
Horizontal	15930.059	62.25	-7.72	54.53	74	-19.47	PK
Horizontal	15930.059	49.17	-7.72	41.45	54	-12.55	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-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5290 MHz)-Above 1G							
Vertical	4434.163	72.43	-20.73	51.70	68.2	-16.50	PK
Vertical	4434.163	59.52	-20.73	38.79	54	-15.21	AV
Vertical	10580.188	60.01	-9.03	50.98	68.2	-17.22	PK
Vertical	10580.188	49.52	-9.03	40.49	54	-13.51	AV
Vertical	15870.087	64.14	-7.74	56.40	74	-17.60	PK
Vertical	15870.087	49.91	-7.74	42.17	54	-11.83	AV
Horizontal	4434.107	74.48	-20.73	53.75	68.2	-14.45	PK
Horizontal	4434.107	59.99	-20.73	39.26	54	-14.74	AV
Horizontal	10580.021	60.88	-9.03	51.85	68.2	-16.35	PK
Horizontal	10580.021	49.52	-9.03	40.49	54	-13.51	AV
Horizontal	15870.051	61.09	-7.74	53.35	74	-20.65	PK
Horizontal	15870.051	49.12	-7.74	41.38	54	-12.62	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(5.6G) - 802.11a
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.176	72.18	-20.73	51.45	68.2	-16.75	PK
Vertical	4434.176	59.86	-20.73	39.13	54	-14.87	AV
Vertical	11000.053	61.66	-8.40	53.26	68.2	-14.94	PK
Vertical	11000.053	49.72	-8.40	41.32	54	-12.68	AV
Vertical	16500.026	62.30	-6.09	56.21	74	-17.79	PK
Vertical	16500.026	49.77	-6.09	43.68	54	-10.32	AV
Horizontal	4434.114	74.99	-20.73	54.26	68.2	-13.94	PK
Horizontal	4434.114	59.28	-20.73	38.54	54	-15.46	AV
Horizontal	11000.079	61.78	-8.40	53.38	68.2	-14.82	PK
Horizontal	11000.079	49.27	-8.40	40.87	54	-13.13	AV
Horizontal	16500.163	60.73	-6.09	54.64	74	-19.36	PK
Horizontal	16500.163	49.43	-6.09	43.34	54	-10.66	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.068	74.48	-20.42	54.06	74	-19.94	PK
Vertical	4592.068	59.68	-20.42	39.27	54	-14.73	AV
Vertical	11160.072	61.55	-8.53	53.02	68.2	-15.18	PK
Vertical	11160.072	49.16	-8.53	40.63	54	-13.37	AV
Vertical	16740.127	63.50	-5.31	58.19	74	-15.81	PK
Vertical	16740.127	49.36	-5.31	44.05	54	-9.95	AV
Horizontal	4592.150	73.74	-20.42	53.32	74	-20.68	PK
Horizontal	4592.150	59.91	-20.42	39.50	54	-14.50	AV
Horizontal	11160.067	64.72	-8.53	56.19	68.2	-12.01	PK
Horizontal	11160.067	49.29	-8.53	40.76	54	-13.24	AV
Horizontal	16740.038	64.35	-5.31	59.04	74	-14.96	PK
Horizontal	16740.038	49.88	-5.31	44.57	54	-9.43	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.165	71.27	-20.12	51.15	74	-22.85	PK
Vertical	4739.165	59.64	-20.12	39.51	54	-14.49	AV
Vertical	11400.085	62.02	-8.72	53.30	68.2	-14.90	PK
Vertical	11400.085	49.62	-8.72	40.90	54	-13.10	AV
Vertical	17100.025	61.63	-3.92	57.71	74	-16.29	PK
Vertical	17100.025	49.94	-3.92	46.02	54	-7.98	AV
Horizontal	4739.144	70.89	-20.12	50.76	74	-23.24	PK
Horizontal	4739.144	59.41	-20.12	39.29	54	-14.71	AV
Horizontal	11400.017	61.48	-8.72	52.76	68.2	-15.44	PK
Horizontal	11400.017	49.78	-8.72	41.06	54	-12.94	AV
Horizontal	17100.189	61.81	-3.92	57.89	74	-16.11	PK
Horizontal	17100.189	49.74	-3.92	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.

The worst case is Antenna A.

Test Mode:	TX(5.6G) - 802.11n-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.088	70.48	-20.73	49.75	68.2	-18.45	PK
Vertical	4434.088	59.89	-20.73	39.16	54	-14.84	AV
Vertical	11000.173	62.69	-8.40	54.29	68.2	-13.91	PK
Vertical	11000.173	49.66	-8.40	41.26	54	-12.74	AV
Vertical	16500.009	63.06	-6.09	56.97	74	-17.03	PK
Vertical	16500.009	49.37	-6.09	43.28	54	-10.72	AV
Horizontal	4434.111	71.52	-20.73	50.79	68.2	-17.41	PK
Horizontal	4434.111	59.12	-20.73	38.39	54	-15.61	AV
Horizontal	11000.155	62.05	-8.40	53.65	68.2	-14.55	PK
Horizontal	11000.155	49.28	-8.40	40.88	54	-13.12	AV
Horizontal	16500.134	61.16	-6.09	55.07	74	-18.93	PK
Horizontal	16500.134	49.13	-6.09	43.04	54	-10.96	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.096	72.50	-20.42	52.09	74	-21.91	PK
Vertical	4592.096	59.60	-20.42	39.18	54	-14.82	AV
Vertical	11160.127	62.15	-8.53	53.62	68.2	-14.58	PK
Vertical	11160.127	49.88	-8.53	41.35	54	-12.65	AV
Vertical	16740.177	63.57	-5.31	58.26	74	-15.74	PK
Vertical	16740.177	49.60	-5.31	44.29	54	-9.71	AV
Horizontal	4592.121	74.87	-20.42	54.45	74	-19.55	PK
Horizontal	4592.121	59.17	-20.42	38.75	54	-15.25	AV
Horizontal	11160.200	61.36	-8.53	52.83	68.2	-15.37	PK
Horizontal	11160.200	49.50	-8.53	40.97	54	-13.03	AV
Horizontal	16740.029	62.02	-5.31	56.71	74	-17.29	PK
Horizontal	16740.029	49.25	-5.31	43.94	54	-10.06	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.071	74.61	-20.12	54.49	74	-19.51	PK
Vertical	4739.071	59.92	-20.12	39.79	54	-14.21	AV
Vertical	11400.012	62.90	-8.72	54.18	68.2	-14.02	PK
Vertical	11400.012	49.33	-8.72	40.61	54	-13.39	AV
Vertical	17100.013	63.82	-3.92	59.90	74	-14.10	PK
Vertical	17100.013	49.35	-3.92	45.43	54	-8.57	AV
Horizontal	4739.032	73.16	-20.12	53.04	74	-20.96	PK
Horizontal	4739.032	59.10	-20.12	38.98	54	-15.02	AV
Horizontal	11400.043	61.15	-8.72	52.43	68.2	-15.77	PK
Horizontal	11400.043	49.49	-8.72	40.77	54	-13.23	AV
Horizontal	17100.145	61.07	-3.92	57.15	74	-16.85	PK
Horizontal	17100.145	49.87	-3.92	45.95	54	-8.05	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 - Preamplifier Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.030	60.92	-20.73	40.19	68.2	-28.01	PK
Vertical	4434.030	43.86	-20.73	23.12	54	-30.88	AV
Vertical	11020.103	63.96	-8.42	55.54	68.2	-12.66	PK
Vertical	11020.103	43.70	-8.42	35.28	54	-18.72	AV
Vertical	16530.122	61.59	-5.99	55.60	74	-18.40	PK
Vertical	16530.122	43.41	-5.99	37.42	54	-16.58	AV
Horizontal	4434.089	60.96	-20.73	40.22	74	-33.78	PK
Horizontal	4434.089	43.61	-20.73	22.87	54	-31.13	AV
Horizontal	11020.167	54.70	-8.42	46.28	68.2	-21.92	PK
Horizontal	11020.167	41.48	-8.42	33.06	54	-20.94	AV
Horizontal	16530.102	50.17	-5.99	44.18	74	-29.82	PK
Horizontal	16530.102	40.62	-5.99	34.63	54	-19.37	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.168	63.32	-20.42	42.91	74	-31.09	PK
Vertical	4592.168	43.17	-20.42	22.75	54	-31.25	AV
Vertical	11100.055	64.15	-8.40	55.75	68.2	-12.45	PK
Vertical	11100.055	43.98	-8.40	35.58	54	-18.42	AV
Vertical	16650.090	60.30	-5.60	54.70	74	-19.30	PK
Vertical	16650.090	43.36	-5.60	37.76	54	-16.24	AV
Horizontal	4592.132	62.27	-20.42	41.86	74	-32.14	PK
Horizontal	4592.132	43.74	-20.42	23.32	54	-30.68	AV
Horizontal	11100.113	52.21	-8.40	43.81	68.2	-24.39	PK
Horizontal	11100.113	42.47	-8.40	34.07	54	-19.93	AV
Horizontal	16650.107	53.89	-5.60	48.29	74	-25.71	PK
Horizontal	16650.107	41.38	-5.60	35.78	54	-18.22	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.085	63.95	-20.12	43.83	68.2	-24.37	PK
Vertical	4739.085	43.16	-20.12	23.04	54	-30.96	AV
Vertical	11340.127	62.29	-8.67	53.62	68.2	-14.58	PK
Vertical	11340.127	43.76	-8.67	35.09	54	-18.91	AV
Vertical	17010.062	64.53	-4.41	60.12	74	-13.88	PK
Vertical	17010.062	43.50	-4.41	39.09	54	-14.91	AV
Horizontal	4739.147	64.70	-20.12	44.58	68.2	-23.62	PK
Horizontal	4739.147	43.30	-20.12	23.17	54	-30.83	AV
Horizontal	11340.109	50.85	-8.67	42.18	68.2	-26.02	PK
Horizontal	11340.109	40.76	-8.67	32.09	54	-21.91	AV
Horizontal	17010.035	52.47	-4.41	48.06	74	-25.94	PK
Horizontal	17010.035	41.42	-4.41	37.01	54	-16.99	AV

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

Test Mode:	TX(5.6G) - 802.11ac-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.161	74.26	-20.73	53.53	68.2	-14.67	PK
Vertical	4434.161	59.72	-20.73	38.99	54	-15.01	AV
Vertical	11000.057	62.06	-8.40	53.66	68.2	-14.54	PK
Vertical	11000.057	49.47	-8.40	41.07	54	-12.93	AV
Vertical	16500.049	62.38	-6.09	56.29	74	-17.71	PK
Vertical	16500.049	49.39	-6.09	43.30	54	-10.70	AV
Horizontal	4434.164	71.39	-20.73	50.65	68.2	-17.55	PK
Horizontal	4434.164	59.56	-20.73	38.82	54	-15.18	AV
Horizontal	11000.029	63.32	-8.40	54.92	68.2	-13.28	PK
Horizontal	11000.029	49.15	-8.40	40.75	54	-13.25	AV
Horizontal	16500.182	61.20	-6.09	55.11	74	-18.89	PK
Horizontal	16500.182	49.30	-6.09	43.21	54	-10.79	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.048	70.81	-20.42	50.40	74	-23.60	PK
Vertical	4592.048	59.68	-20.42	39.26	54	-14.74	AV
Vertical	11160.023	64.27	-8.53	55.74	68.2	-12.46	PK
Vertical	11160.023	49.76	-8.53	41.23	54	-12.77	AV
Vertical	16740.194	63.18	-5.31	57.87	74	-16.13	PK
Vertical	16740.194	49.50	-5.31	44.19	54	-9.81	AV
Horizontal	4592.176	74.11	-20.42	53.70	74	-20.30	PK
Horizontal	4592.176	59.69	-20.42	39.27	54	-14.73	AV
Horizontal	11160.190	64.41	-8.53	55.88	68.2	-12.32	PK
Horizontal	11160.190	49.19	-8.53	40.66	54	-13.34	AV
Horizontal	16740.142	64.95	-5.31	59.64	74	-14.36	PK
Horizontal	16740.142	49.23	-5.31	43.92	54	-10.08	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.050	73.88	-20.12	53.76	74	-20.24	PK
Vertical	4739.050	59.12	-20.12	39.00	54	-15.00	AV
Vertical	11400.159	62.07	-8.72	53.35	68.2	-14.85	PK
Vertical	11400.159	49.33	-8.72	40.61	54	-13.39	AV
Vertical	17100.165	61.34	-3.92	57.42	74	-16.58	PK
Vertical	17100.165	49.15	-3.92	45.23	54	-8.77	AV
Horizontal	4739.152	71.06	-20.12	50.94	74	-23.06	PK
Horizontal	4739.152	59.72	-20.12	39.60	54	-14.40	AV
Horizontal	11400.190	60.59	-8.72	51.87	68.2	-16.33	PK
Horizontal	11400.190	49.22	-8.72	40.50	54	-13.50	AV
Horizontal	17100.181	64.88	-3.92	60.96	74	-13.04	PK
Horizontal	17100.181	49.75	-3.92	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 - Preamplifier Factor = Level.
Test Mode is MIMO Mode.

Test Mode:	TX(5.6G) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.187	64.01	-20.73	43.28	68.2	-24.92	PK
Vertical	4434.187	43.48	-20.73	22.74	54	-31.26	AV
Vertical	11020.188	62.48	-8.42	54.06	68.2	-14.14	PK
Vertical	11020.188	43.87	-8.42	35.45	54	-18.55	AV
Vertical	16530.188	63.87	-5.99	57.88	74	-16.12	PK
Vertical	16530.188	43.70	-5.99	37.71	54	-16.29	AV
Horizontal	4434.019	62.81	-20.73	42.07	74	-31.93	PK
Horizontal	4434.019	43.39	-20.73	22.66	54	-31.34	AV
Horizontal	11020.100	51.45	-8.42	43.03	68.2	-25.17	PK
Horizontal	11020.100	40.53	-8.42	32.11	54	-21.89	AV
Horizontal	16530.161	53.93	-5.99	47.94	74	-26.06	PK
Horizontal	16530.161	40.05	-5.99	34.06	54	-19.94	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.198	61.23	-20.42	40.81	74	-33.19	PK
Vertical	4592.198	43.31	-20.42	22.89	54	-31.11	AV
Vertical	11100.027	63.24	-8.40	54.84	68.2	-13.36	PK
Vertical	11100.027	43.29	-8.40	34.89	54	-19.11	AV
Vertical	16650.073	64.86	-5.60	59.26	74	-14.74	PK
Vertical	16650.073	43.53	-5.60	37.93	54	-16.07	AV
Horizontal	4592.062	61.96	-20.42	41.54	74	-32.46	PK
Horizontal	4592.062	43.22	-20.42	22.80	54	-31.20	AV
Horizontal	11100.021	51.92	-8.40	43.52	68.2	-24.68	PK
Horizontal	11100.021	41.74	-8.40	33.34	54	-20.66	AV
Horizontal	16650.157	52.66	-5.60	47.06	74	-26.94	PK
Horizontal	16650.157	42.54	-5.60	36.94	54	-17.06	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.159	63.29	-20.12	43.17	68.2	-25.03	PK
Vertical	4739.159	43.28	-20.12	23.15	54	-30.85	AV
Vertical	11340.120	61.46	-8.67	52.79	68.2	-15.41	PK
Vertical	11340.120	43.76	-8.67	35.09	54	-18.91	AV
Vertical	17010.083	64.22	-4.41	59.81	74	-14.19	PK
Vertical	17010.083	43.82	-4.41	39.41	54	-14.59	AV
Horizontal	4739.074	61.10	-20.12	40.98	68.2	-27.22	PK
Horizontal	4739.074	43.68	-20.12	23.56	54	-30.44	AV
Horizontal	11340.158	51.35	-8.67	42.68	68.2	-25.52	PK
Horizontal	11340.158	42.96	-8.67	34.29	54	-19.71	AV
Horizontal	17010.052	53.41	-4.41	49.00	74	-25.00	PK
Horizontal	17010.052	40.74	-4.41	36.33	54	-17.67	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(5.6G) - 802.11ac-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5530 MHz)-Above 1G							
Vertical	4434.007	64.99	-20.73	44.26	68.2	-23.94	PK
Vertical	4434.007	43.43	-20.73	22.70	54	-31.30	AV
Vertical	11060.013	63.96	-8.45	55.51	68.2	-12.69	PK
Vertical	11060.013	43.91	-8.45	35.46	54	-18.54	AV
Vertical	16590.015	63.74	-5.79	57.95	74	-16.05	PK
Vertical	16590.015	43.60	-5.79	37.81	54	-16.19	AV
Horizontal	4434.022	62.24	-20.73	41.51	68.2	-26.69	PK
Horizontal	4434.022	43.82	-20.73	23.09	54	-30.91	AV
Horizontal	11060.094	54.57	-8.45	46.12	68.2	-22.08	PK
Horizontal	11060.094	43.64	-8.45	35.19	54	-18.81	AV
Horizontal	16590.122	51.17	-5.79	45.38	74	-28.62	PK
Horizontal	16590.122	41.22	-5.79	35.43	54	-18.57	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	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.175	73.59	-20.24	53.35	74	-20.65	PK
Vertical	4679.175	59.04	-20.24	38.80	54	-15.20	AV
Vertical	11490.042	63.06	-8.79	54.27	68.2	-13.93	PK
Vertical	11490.042	49.13	-8.79	40.34	54	-13.66	AV
Vertical	17235.034	58.99	-3.18	55.81	68.2	-12.39	PK
Vertical	17235.034	44.21	-3.18	41.03	54	-12.97	AV
Horizontal	4679.127	70.03	-20.73	49.30	74	-24.70	PK
Horizontal	4679.127	59.26	-20.73	38.53	54	-15.47	AV
Horizontal	11490.170	60.95	-8.79	52.16	68.2	-16.04	PK
Horizontal	11490.170	49.25	-8.79	40.46	54	-13.54	AV
Horizontal	17235.182	55.91	-3.18	52.73	68.2	-15.47	PK
Horizontal	17235.182	44.90	-3.18	41.72	54	-12.28	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.029	73.24	-20.42	52.83	74	-21.17	PK
Vertical	4592.029	59.21	-20.42	38.80	54	-15.20	AV
Vertical	11570.047	62.16	-8.86	53.30	68.2	-14.90	PK
Vertical	11570.047	49.68	-8.86	40.82	54	-13.18	AV
Vertical	17355.194	55.15	-2.52	52.63	68.2	-15.57	PK
Vertical	17355.194	44.01	-2.52	41.49	54	-12.51	AV
Horizontal	4592.111	73.61	-20.42	53.19	74	-20.81	PK
Horizontal	4592.111	59.25	-20.42	38.84	54	-15.16	AV
Horizontal	11570.117	64.18	-8.86	55.32	68.2	-12.88	PK
Horizontal	11570.117	49.84	-8.86	40.98	54	-13.02	AV
Horizontal	17355.141	59.63	-2.52	57.11	68.2	-11.09	PK
Horizontal	17355.141	44.54	-2.52	42.02	54	-11.98	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.040	74.22	-18.93	55.29	68.2	-12.91	PK
Vertical	6039.040	59.80	-18.93	40.87	54	-13.13	AV
Vertical	11650.109	61.80	-8.92	52.88	74	-21.12	PK
Vertical	11650.109	49.44	-8.92	40.52	54	-13.48	AV
Vertical	17475.055	58.74	-1.86	56.88	68.2	-11.32	PK
Vertical	17475.055	44.43	-1.86	42.57	54	-11.43	AV
Horizontal	6039.015	74.39	-18.93	55.45	68.2	-12.75	PK
Horizontal	6039.015	59.61	-18.93	40.68	54	-13.32	AV
Horizontal	11650.047	63.38	-8.92	54.46	74	-19.54	PK
Horizontal	11650.047	49.99	-8.92	41.07	54	-12.93	AV
Horizontal	17475.152	58.80	-1.86	56.94	68.2	-11.26	PK
Horizontal	17475.152	44.06	-1.86	42.20	54	-11.80	AV

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

Test Mode:	TX(5.8G) - 802.11n-HT20
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.173	70.28	-20.24	50.04	74	-23.96	PK
Vertical	4679.173	59.65	-20.24	39.41	54	-14.59	AV
Vertical	11490.158	61.72	-8.79	52.93	68.2	-15.27	PK
Vertical	11490.158	49.37	-8.79	40.58	54	-13.42	AV
Vertical	17235.112	59.87	-3.18	56.69	68.2	-11.51	PK
Vertical	17235.112	44.27	-3.18	41.09	54	-12.91	AV
Horizontal	4679.053	74.38	-20.24	54.14	74	-19.86	PK
Horizontal	4679.053	59.08	-20.24	38.84	54	-15.16	AV
Horizontal	11490.181	60.54	-8.79	51.75	68.2	-16.45	PK
Horizontal	11490.181	49.05	-8.79	40.26	54	-13.74	AV
Horizontal	17235.176	59.57	-3.18	56.39	68.2	-11.81	PK
Horizontal	17235.176	44.30	-3.18	41.12	54	-12.88	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.089	71.71	-20.42	51.29	74	-22.71	PK
Vertical	4592.089	59.48	-20.42	39.07	54	-14.93	AV
Vertical	11570.183	62.17	-8.86	53.31	68.2	-14.89	PK
Vertical	11570.183	49.81	-8.86	40.95	54	-13.05	AV
Vertical	17355.072	59.58	-2.52	57.06	68.2	-11.14	PK
Vertical	17355.072	44.84	-2.52	42.32	54	-11.68	AV
Horizontal	4592.005	71.92	-20.42	51.50	74	-22.50	PK
Horizontal	4592.005	59.72	-20.42	39.30	54	-14.70	AV
Horizontal	11570.193	62.99	-8.86	54.13	68.2	-14.07	PK
Horizontal	11570.193	49.87	-8.86	41.01	54	-12.99	AV
Horizontal	17355.112	58.46	-2.52	55.94	68.2	-12.26	PK
Horizontal	17355.112	44.94	-2.52	42.42	54	-11.58	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.194	73.43	-18.93	54.50	68.2	-13.70	PK
Vertical	6039.194	59.75	-18.93	40.82	54	-13.18	AV
Vertical	11650.180	63.21	-8.92	54.29	74	-19.71	PK
Vertical	11650.180	49.51	-8.92	40.59	54	-13.41	AV
Vertical	17475.125	57.55	-1.86	55.69	68.2	-12.51	PK
Vertical	17475.125	44.95	-1.86	43.09	54	-10.91	AV
Horizontal	6039.029	71.17	-18.93	52.24	68.2	-15.96	PK
Horizontal	6039.029	59.89	-18.93	40.95	54	-13.05	AV
Horizontal	11650.137	61.81	-8.92	52.89	74	-21.11	PK
Horizontal	11650.137	49.01	-8.92	40.09	54	-13.91	AV
Horizontal	17475.035	55.79	-1.86	53.93	68.2	-14.27	PK
Horizontal	17475.035	44.07	-1.86	42.21	54	-11.79	AV

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

Test Mode:	TX(5.8G) - 802.11n-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.114	73.08	-20.24	52.84	74	-21.16	PK
Vertical	4679.114	59.47	-20.24	39.23	54	-14.77	AV
Vertical	11510.088	62.32	-8.81	53.51	74	-20.49	PK
Vertical	11510.088	49.27	-8.81	40.46	54	-13.54	AV
Vertical	17265.009	56.91	-3.01	53.90	68.2	-14.30	PK
Vertical	17265.009	44.10	-3.01	41.09	54	-12.91	AV
Horizontal	4679.053	73.57	-20.24	53.32	74	-20.68	PK
Horizontal	4679.053	59.03	-20.24	38.79	54	-15.21	AV
Horizontal	11510.103	61.73	-8.81	52.92	74	-21.08	PK
Horizontal	11510.103	49.53	-8.81	40.72	54	-13.28	AV
Horizontal	17265.160	58.05	-3.01	55.04	68.2	-13.16	PK
Horizontal	17265.160	44.96	-3.01	41.95	54	-12.05	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.026	70.77	-18.93	51.84	68.2	-16.36	PK
Vertical	6039.026	59.15	-18.93	40.22	54	-13.78	AV
Vertical	11590.076	63.98	-8.87	55.11	74	-18.89	PK
Vertical	11590.076	49.92	-8.87	41.05	54	-12.95	AV
Vertical	17385.113	55.35	-2.35	53.00	68.2	-15.20	PK
Vertical	17385.113	44.15	-2.35	41.80	54	-12.20	AV
Horizontal	6039.061	71.64	-18.93	52.71	68.2	-15.49	PK
Horizontal	6039.061	59.34	-18.93	40.41	54	-13.59	AV
Horizontal	11590.107	62.05	-8.87	53.18	74	-20.82	PK
Horizontal	11590.107	49.68	-8.87	40.81	54	-13.19	AV
Horizontal	17385.008	56.38	-2.35	54.03	68.2	-14.17	PK
Horizontal	17385.008	44.41	-2.35	42.06	54	-11.94	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	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.037	71.63	-20.24	51.39	74	-22.61	PK
Vertical	4679.037	59.43	-20.24	39.19	54	-14.81	AV
Vertical	11490.192	61.74	-8.79	52.95	68.2	-15.25	PK
Vertical	11490.192	49.09	-8.79	40.30	54	-13.70	AV
Vertical	17235.183	55.77	-3.18	52.59	68.2	-15.61	PK
Vertical	17235.183	44.15	-3.18	40.97	54	-13.03	AV
Horizontal	4679.114	70.64	-20.24	50.40	74	-23.60	PK
Horizontal	4679.114	59.57	-20.24	39.33	54	-14.67	AV
Horizontal	11490.056	62.68	-8.79	53.89	68.2	-14.31	PK
Horizontal	11490.056	49.51	-8.79	40.72	54	-13.28	AV
Horizontal	17235.008	58.61	-3.18	55.43	68.2	-12.77	PK
Horizontal	17235.008	44.39	-3.18	41.21	54	-12.79	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.007	70.61	-20.42	50.19	74	-23.81	PK
Vertical	4592.007	59.40	-20.42	38.99	54	-15.01	AV
Vertical	11570.199	62.34	-8.86	53.48	68.2	-14.72	PK
Vertical	11570.199	49.21	-8.86	40.35	54	-13.65	AV
Vertical	17355.115	57.85	-2.52	55.33	68.2	-12.87	PK
Vertical	17355.115	44.14	-2.52	41.62	54	-12.38	AV
Horizontal	4592.179	70.03	-20.42	49.62	74	-24.38	PK
Horizontal	4592.179	59.59	-20.42	39.17	54	-14.83	AV
Horizontal	11570.080	63.57	-8.86	54.71	68.2	-13.49	PK
Horizontal	11570.080	49.39	-8.86	40.53	54	-13.47	AV
Horizontal	17355.003	56.71	-2.52	54.19	68.2	-14.01	PK
Horizontal	17355.003	44.70	-2.52	42.18	54	-11.82	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.029	74.82	-18.93	55.89	68.2	-12.31	PK
Vertical	6039.029	59.62	-18.93	40.68	54	-13.32	AV
Vertical	11650.131	60.66	-8.92	51.74	74	-22.26	PK
Vertical	11650.131	49.66	-8.92	40.74	54	-13.26	AV
Vertical	17475.135	56.38	-1.86	54.52	68.2	-13.68	PK
Vertical	17475.135	44.79	-1.86	42.93	54	-11.07	AV
Horizontal	6039.113	70.28	-18.93	51.35	68.2	-16.85	PK
Horizontal	6039.113	59.58	-18.93	40.65	54	-13.35	AV
Horizontal	11650.176	60.23	-8.92	51.31	74	-22.69	PK
Horizontal	11650.176	49.41	-8.92	40.49	54	-13.51	AV
Horizontal	17475.064	57.27	-1.86	55.41	68.2	-12.79	PK
Horizontal	17475.064	44.85	-1.86	42.99	54	-11.01	AV

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

Test Mode:	TX(5.8G) - 802.11ac-HT40
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.105	71.72	-20.24	51.48	74	-22.52	PK
Vertical	4679.105	59.48	-20.24	39.24	54	-14.76	AV
Vertical	11510.106	64.44	-8.81	55.63	74	-18.37	PK
Vertical	11510.106	49.78	-8.81	40.97	54	-13.03	AV
Vertical	17265.086	55.76	-3.01	52.75	68.2	-15.45	PK
Vertical	17265.086	44.09	-3.01	41.08	54	-12.92	AV
Horizontal	4679.170	71.35	-20.24	51.11	74	-22.89	PK
Horizontal	4679.170	59.66	-20.24	39.42	54	-14.58	AV
Horizontal	11510.175	61.05	-8.81	52.24	74	-21.76	PK
Horizontal	11510.175	49.19	-8.81	40.38	54	-13.62	AV
Horizontal	17265.167	55.53	-3.01	52.52	68.2	-15.68	PK
Horizontal	17265.167	44.49	-3.01	41.48	54	-12.52	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.013	74.54	-18.93	55.61	68.2	-12.59	PK
Vertical	6039.013	59.59	-18.93	40.66	54	-13.34	AV
Vertical	11590.049	62.60	-8.87	53.73	74	-20.27	PK
Vertical	11590.049	49.25	-8.87	40.38	54	-13.62	AV
Vertical	17385.190	58.13	-2.35	55.78	68.2	-12.42	PK
Vertical	17385.190	44.24	-2.35	41.89	54	-12.11	AV
Horizontal	6039.013	74.73	-18.93	55.80	68.2	-12.40	PK
Horizontal	6039.013	59.92	-18.93	40.98	54	-13.02	AV
Horizontal	11590.062	62.59	-8.87	53.72	74	-20.28	PK
Horizontal	11590.062	49.10	-8.87	40.23	54	-13.77	AV
Horizontal	17385.116	58.87	-2.35	56.52	68.2	-11.68	PK
Horizontal	17385.116	44.31	-2.35	41.96	54	-12.04	AV

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

Test Mode:	TX(5.8G) - 802.11ac-HT80
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Polar	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
Vertical	4679.075	72.29	-20.24	52.05	74	-21.95	PK
Vertical	4679.075	59.42	-20.24	39.18	54	-14.82	AV
Vertical	11550.190	63.52	-8.84	54.68	74	-19.32	PK
Vertical	11550.190	49.03	-8.84	40.19	54	-13.81	AV
Vertical	17325.035	55.57	-2.68	52.89	68.2	-15.31	PK
Vertical	17325.035	44.89	-2.68	42.21	54	-11.79	AV
Horizontal	4679.000	72.31	-20.24	52.06	74	-21.94	PK
Horizontal	4679.000	59.87	-20.24	39.63	54	-14.37	AV
Horizontal	11550.199	63.99	-8.84	55.15	74	-18.85	PK
Horizontal	11550.199	49.14	-8.84	40.30	54	-13.70	AV
Horizontal	17325.038	57.73	-2.68	55.05	68.2	-13.15	PK
Horizontal	17325.038	44.52	-2.68	41.84	54	-12.16	AV

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

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

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

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

Test Mode 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 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

8.4 EUT Operating Conditions

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

8.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5180-5240MHz)		

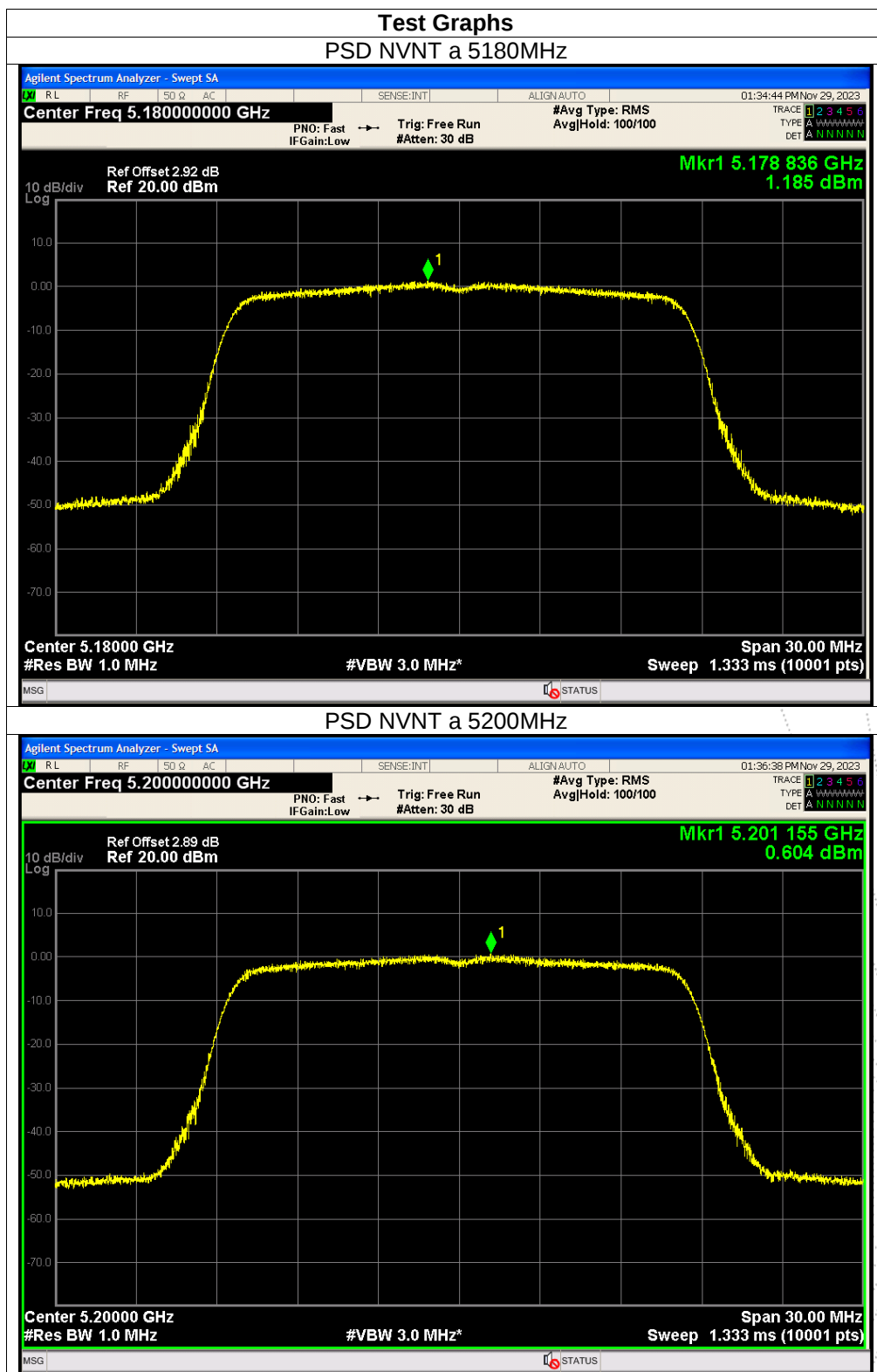
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5180	1.26	1.19	/	11	Pass
NVNT	a	5200	0.32	0.6	/	11	Pass
NVNT	a	5240	-0.29	1.34	/	11	Pass
NVNT	n20	5180	-1.52	-0.71	1.91	10.78	Pass
NVNT	n20	5200	-1.36	-0.86	1.91	10.78	Pass
NVNT	n20	5240	-0.8	-0.46	2.38	10.78	Pass
NVNT	n40	5190	-5.91	-5.16	-2.51	10.78	Pass
NVNT	n40	5230	-4.64	-4.66	-1.64	10.78	Pass
NVNT	ac20	5180	-1.62	-0.65	1.90	10.78	Pass
NVNT	ac20	5200	-1.87	-1.26	1.46	10.78	Pass
NVNT	ac20	5240	-1.39	-0.36	2.17	10.78	Pass
NVNT	ac40	5190	-6.53	-5.65	-3.06	10.78	Pass
NVNT	ac40	5230	-5.28	-4.32	-1.76	10.78	Pass
NVNT	ac80	5210	-9.19	-9.65	-6.40	10.78	Pass

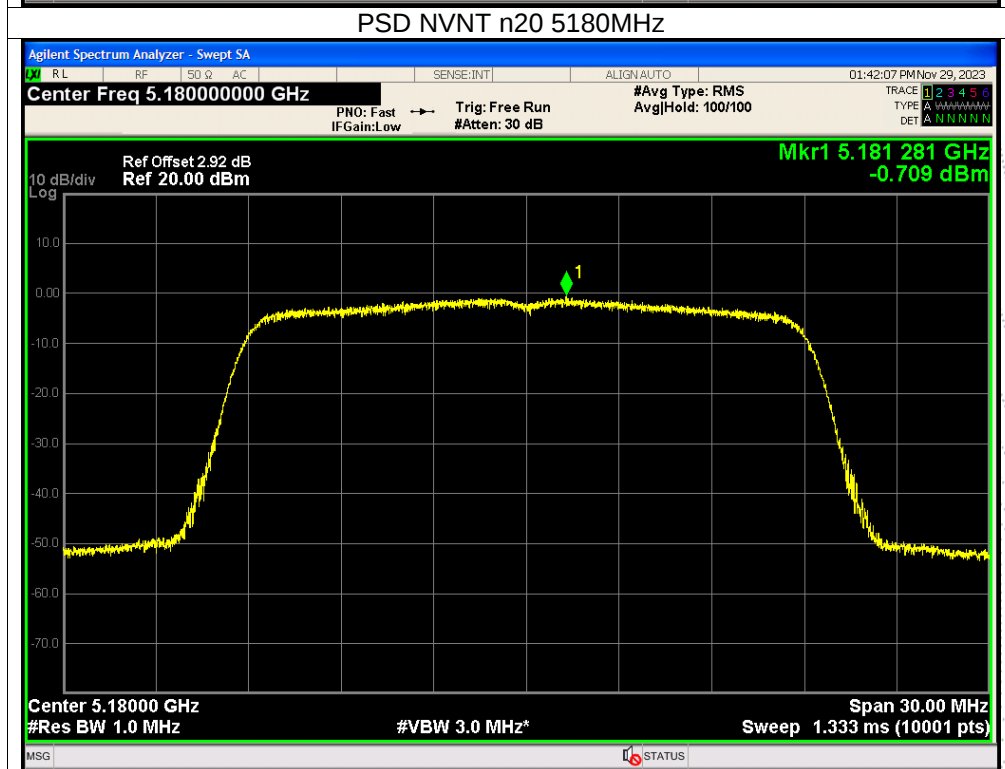
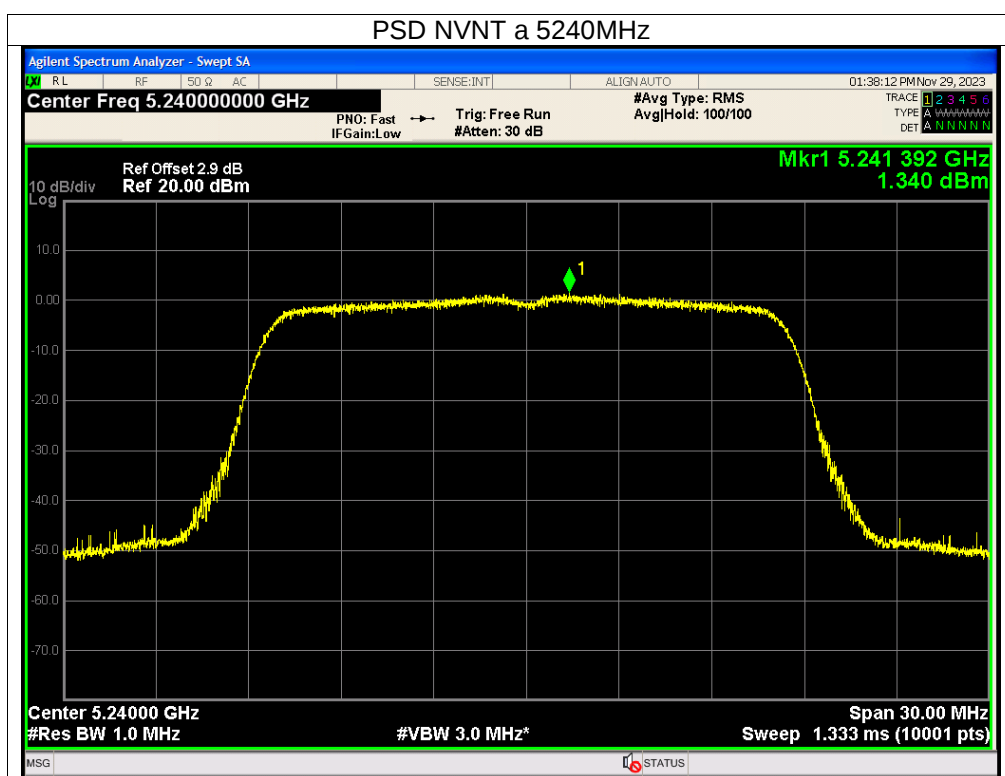
Note:

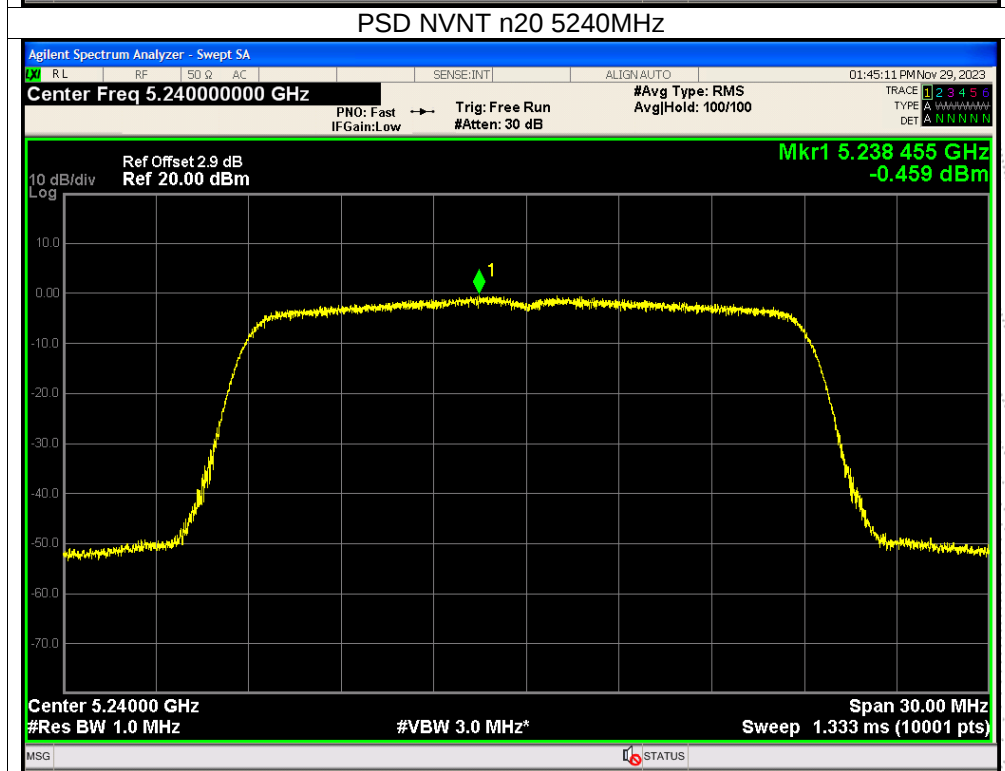
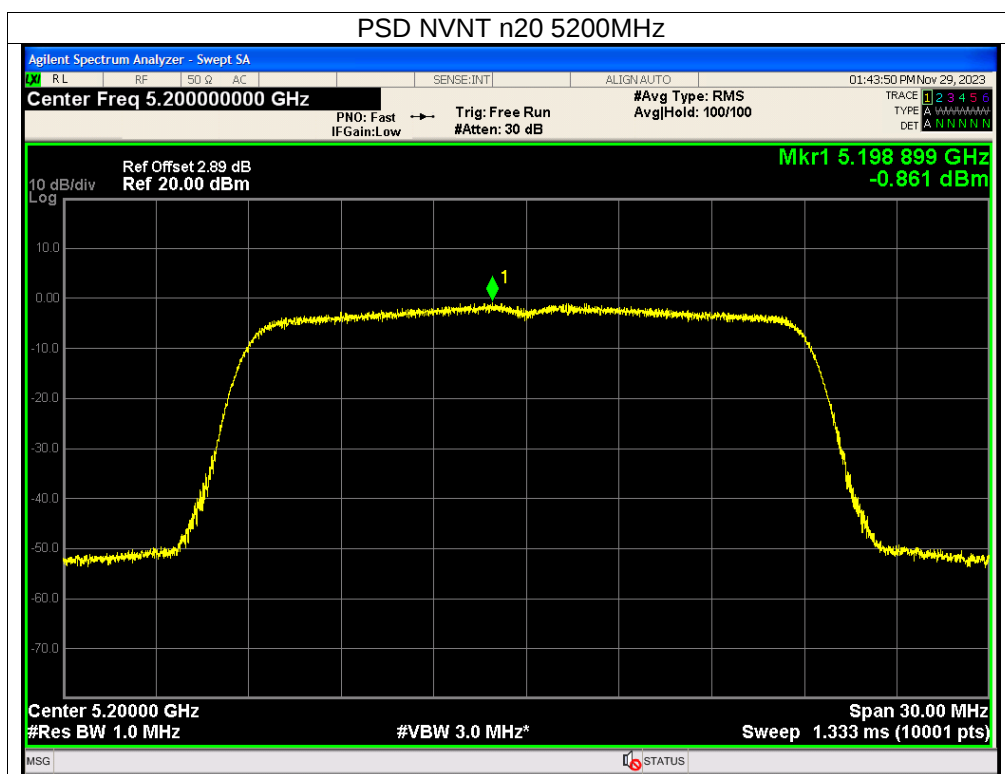
Antenna A gain:3.21 dBi, Antenna B gain: 3.21 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =6.22 dBi>6dbi

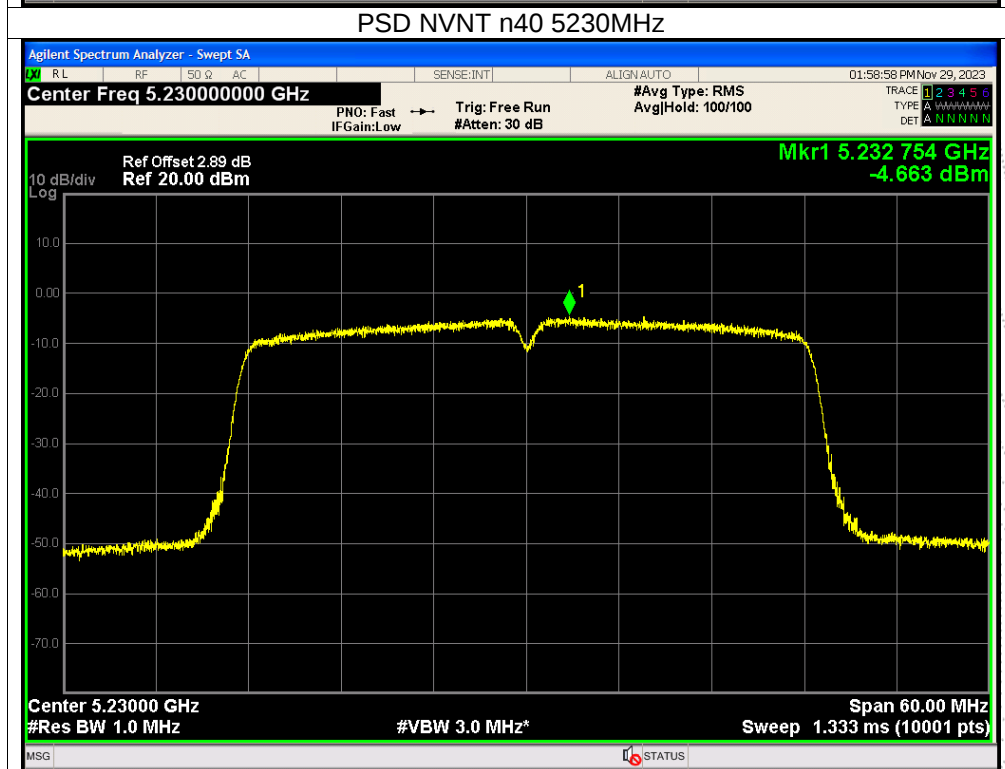
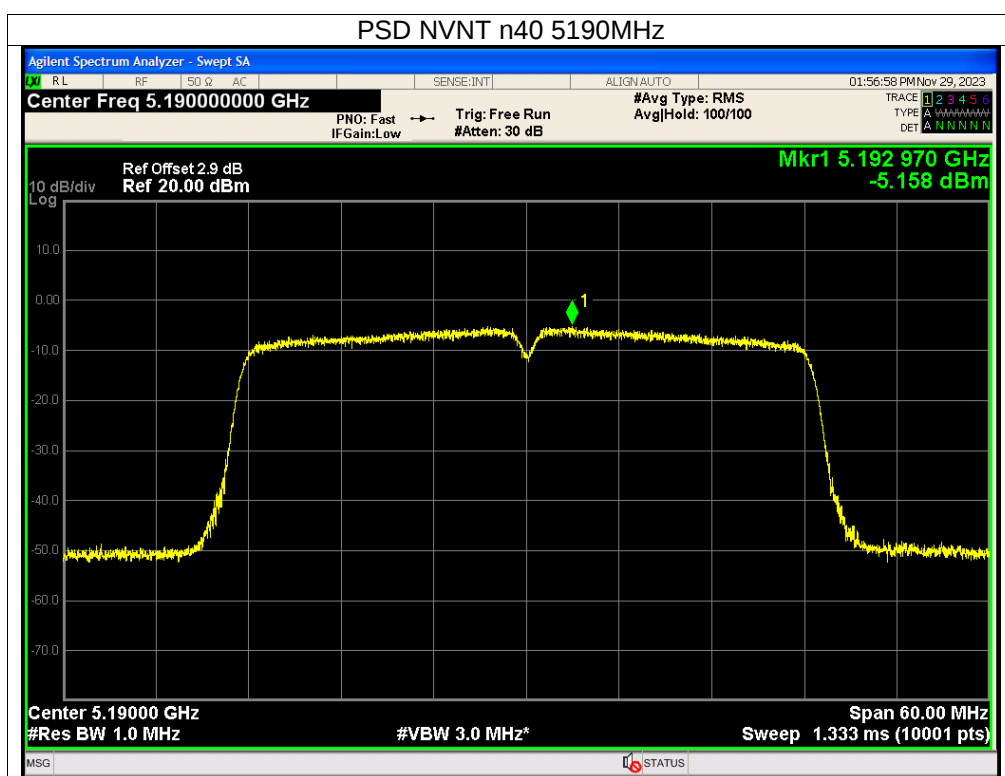
Limit=11-(6.22-6)=10.78 dbi

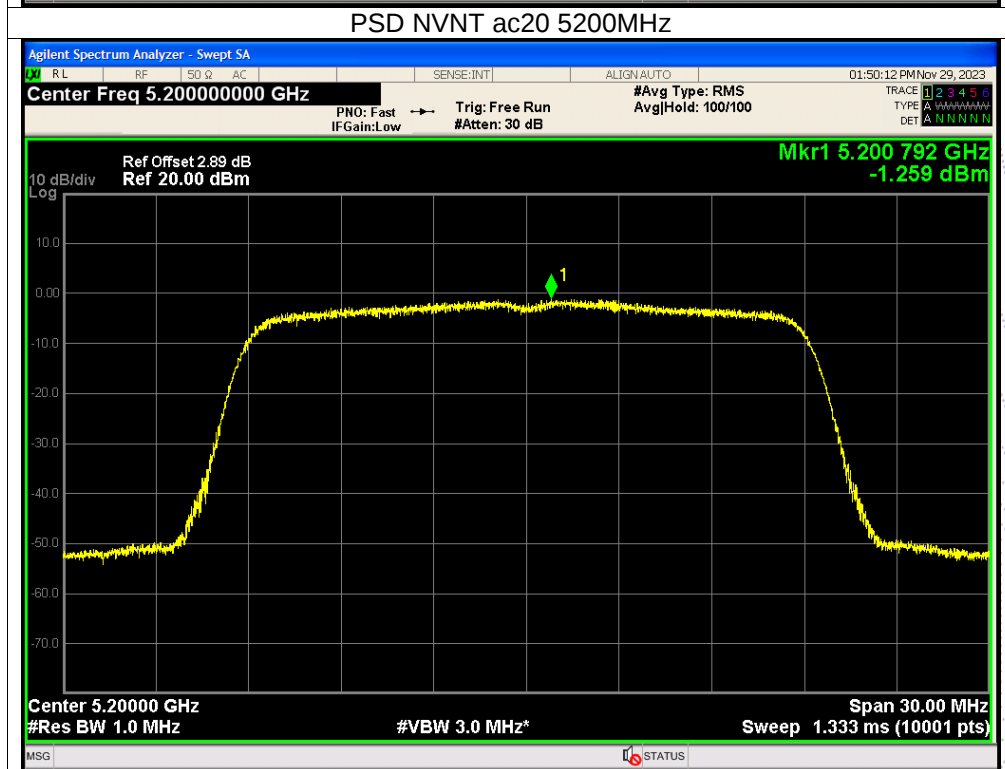
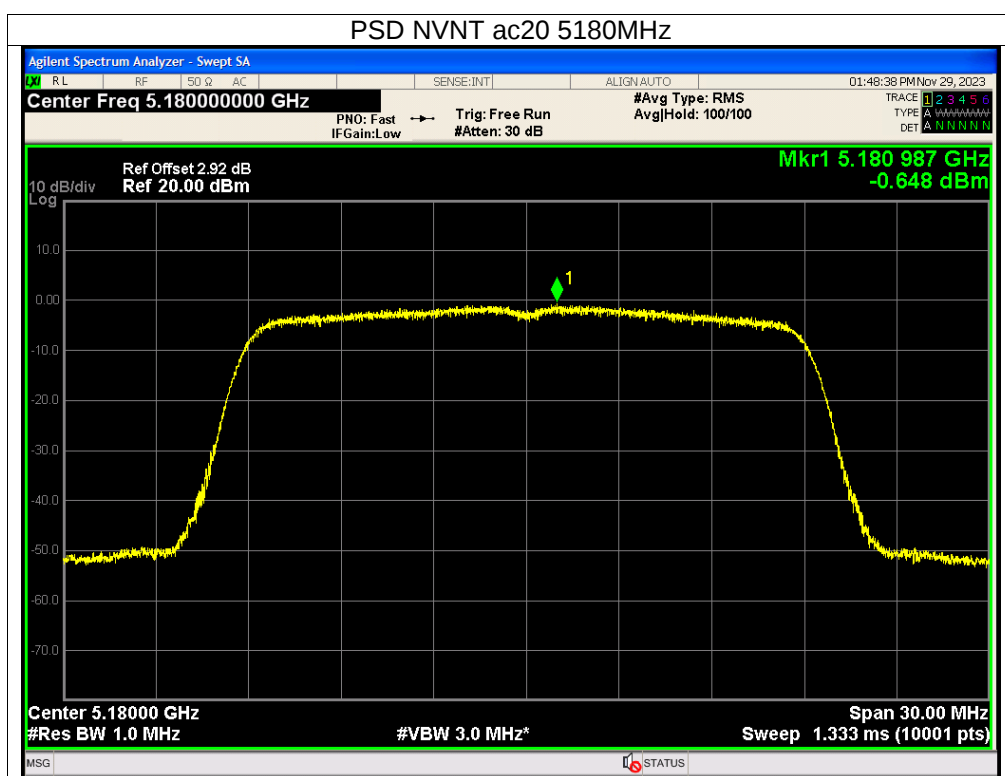
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

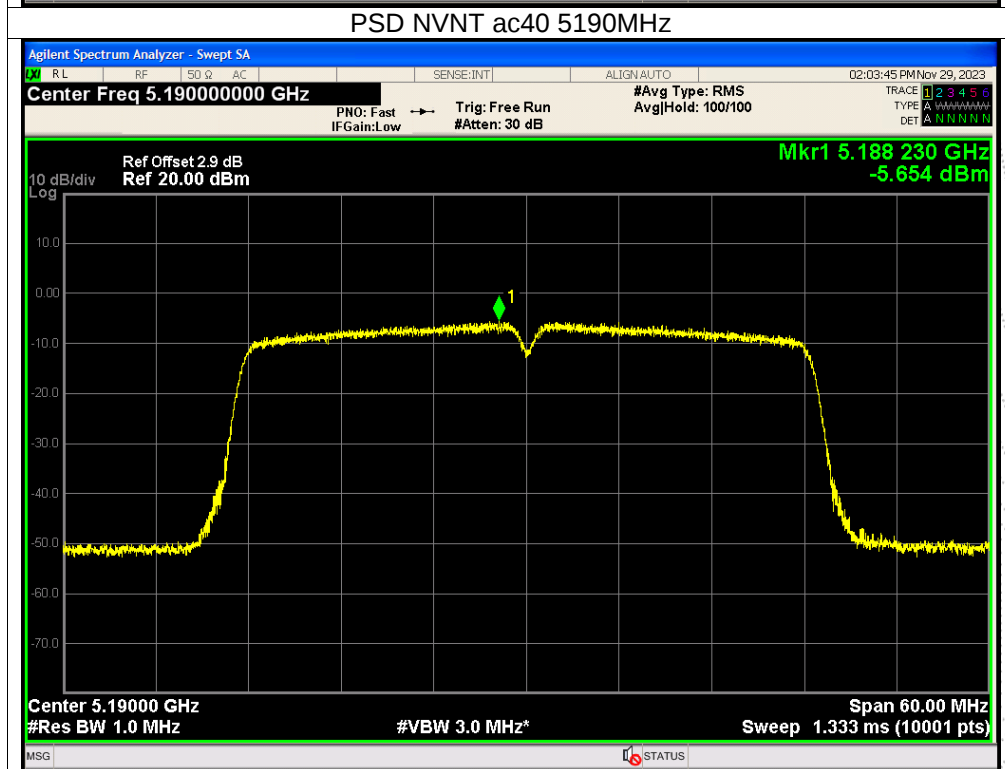
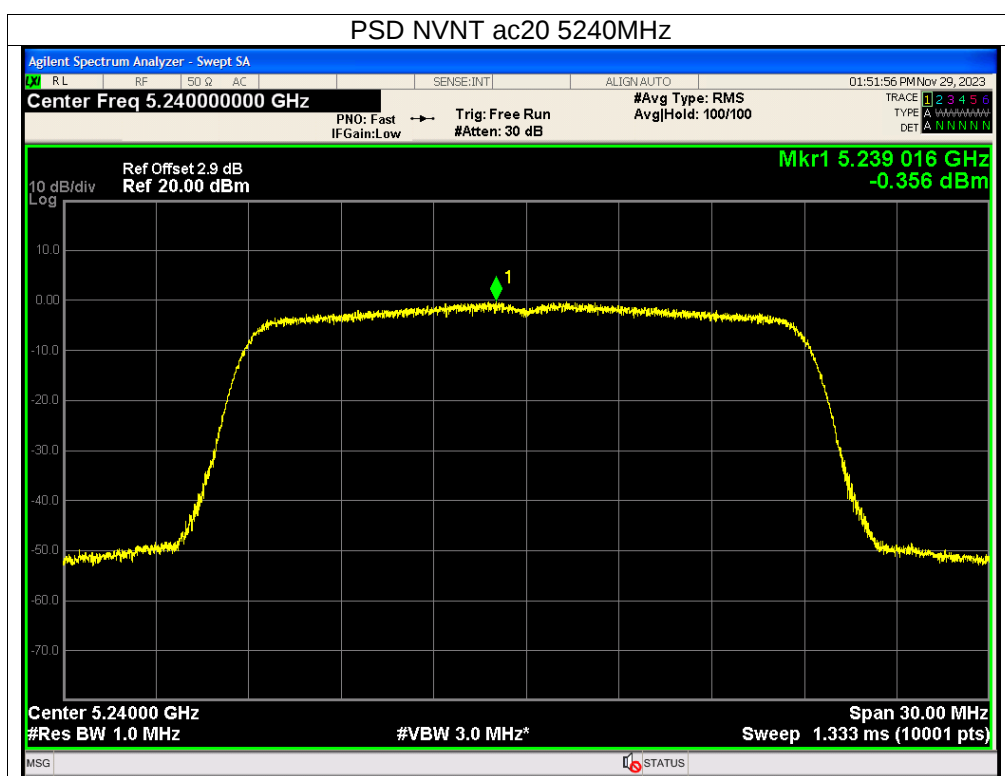


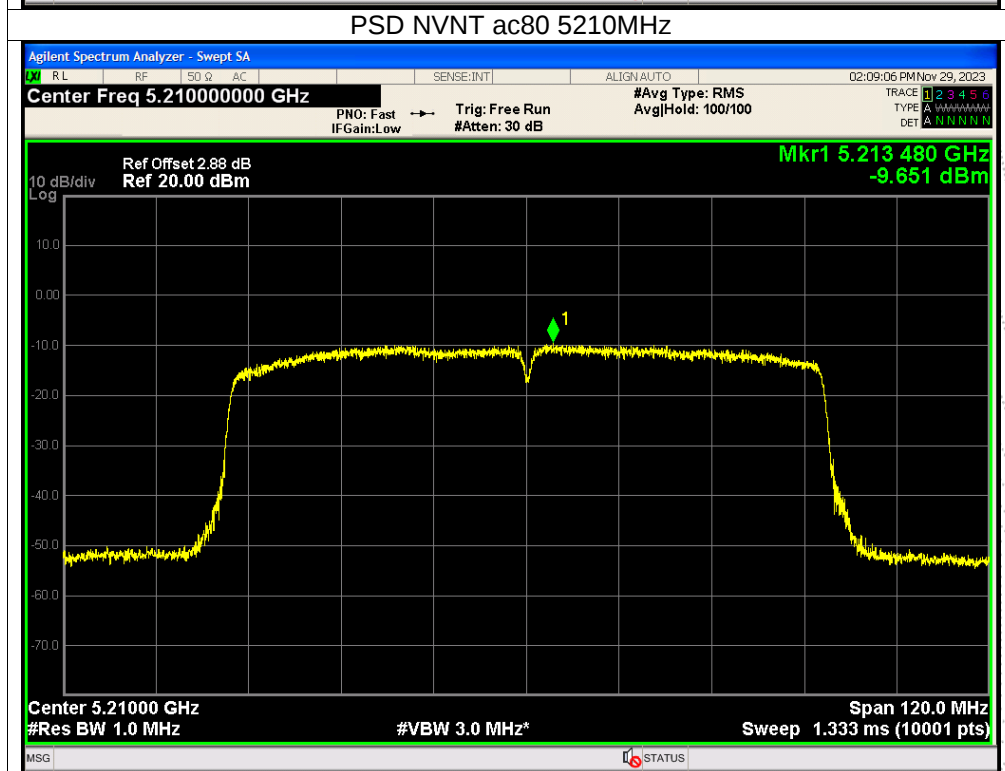
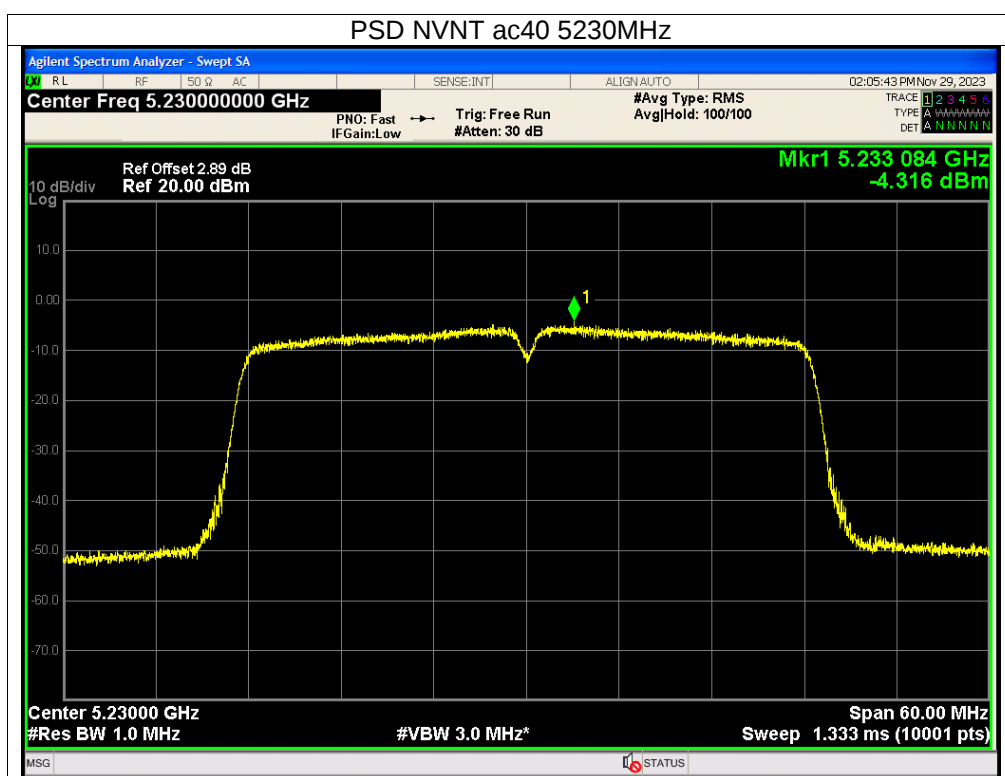












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5260-5320MHz)		

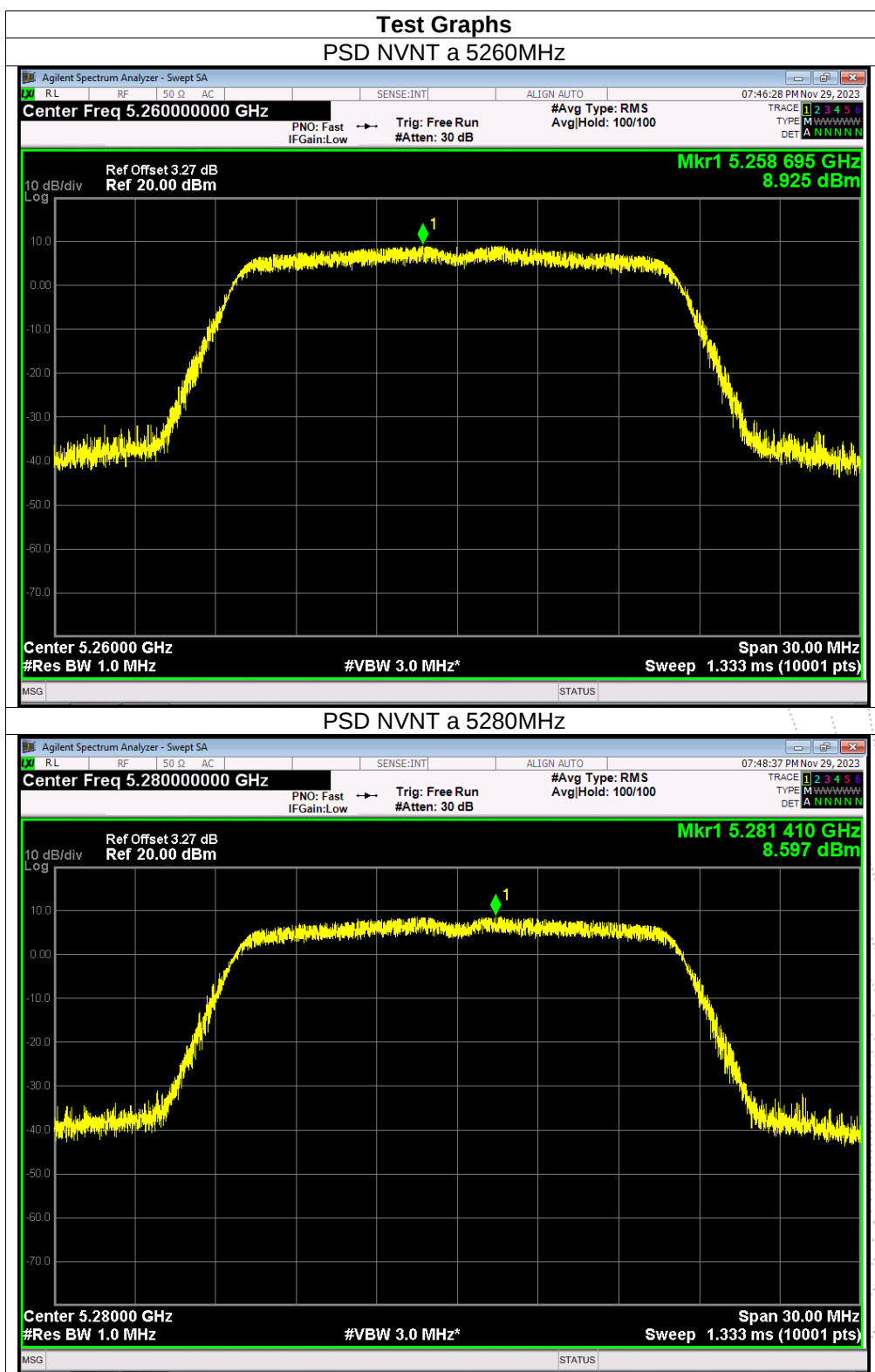
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5260	8.24	8.93	/	11	Pass
NVNT	a	5280	8.21	8.6	/	11	Pass
NVNT	a	5320	9.55	9.98	/	11	Pass
NVNT	n20	5260	7.45	7.29	10.38	10.78	Pass
NVNT	n20	5280	0.21	0	3.12	10.78	Pass
NVNT	n20	5320	1.13	1.15	4.15	10.78	Pass
NVNT	n40	5270	-4.43	-4.53	-1.47	10.78	Pass
NVNT	n40	5310	-3.68	-3.11	-0.38	10.78	Pass
NVNT	ac20	5260	-0.67	-0.21	2.58	10.78	Pass
NVNT	ac20	5280	0.25	0.21	3.24	10.78	Pass
NVNT	ac20	5320	1.25	1.25	4.26	10.78	Pass
NVNT	ac40	5270	-5.06	-4.04	-1.51	10.78	Pass
NVNT	ac40	5310	-3.78	-3.55	-0.65	10.78	Pass
NVNT	ac80	5290	-9.58	-9.72	-6.64	10.78	Pass

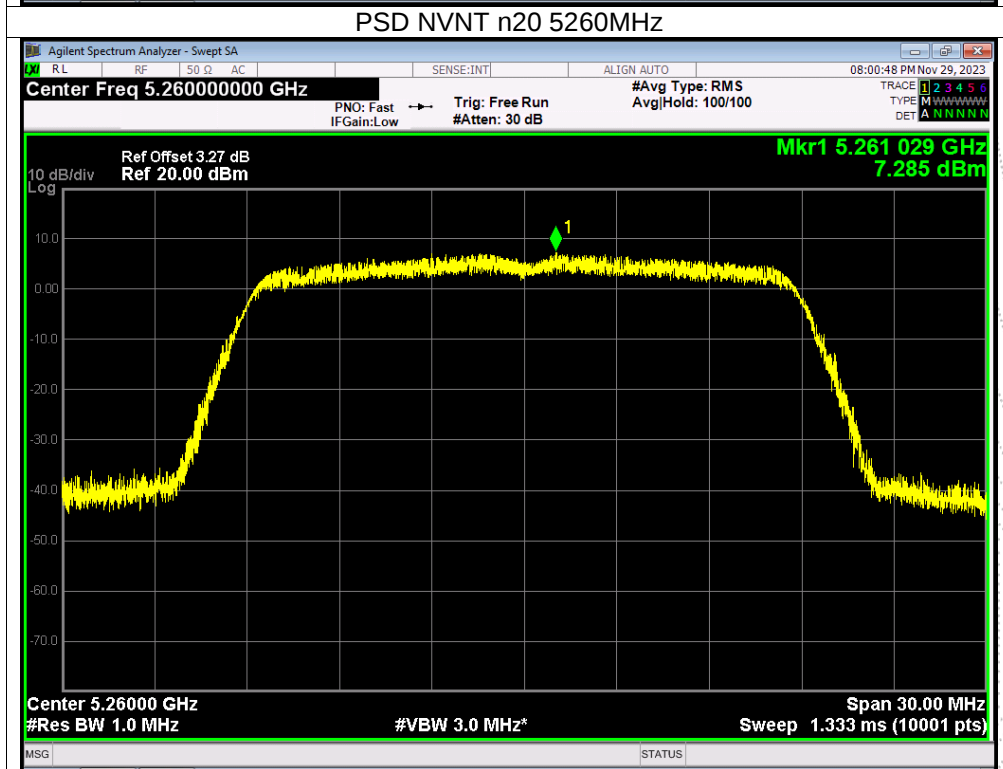
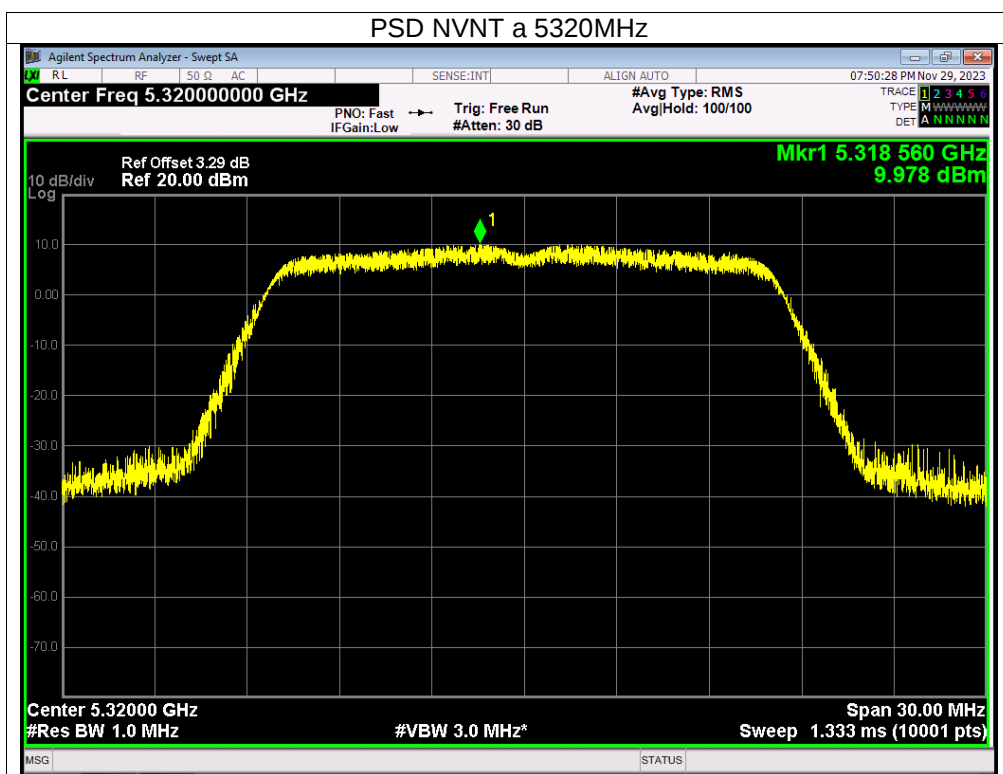
Note:

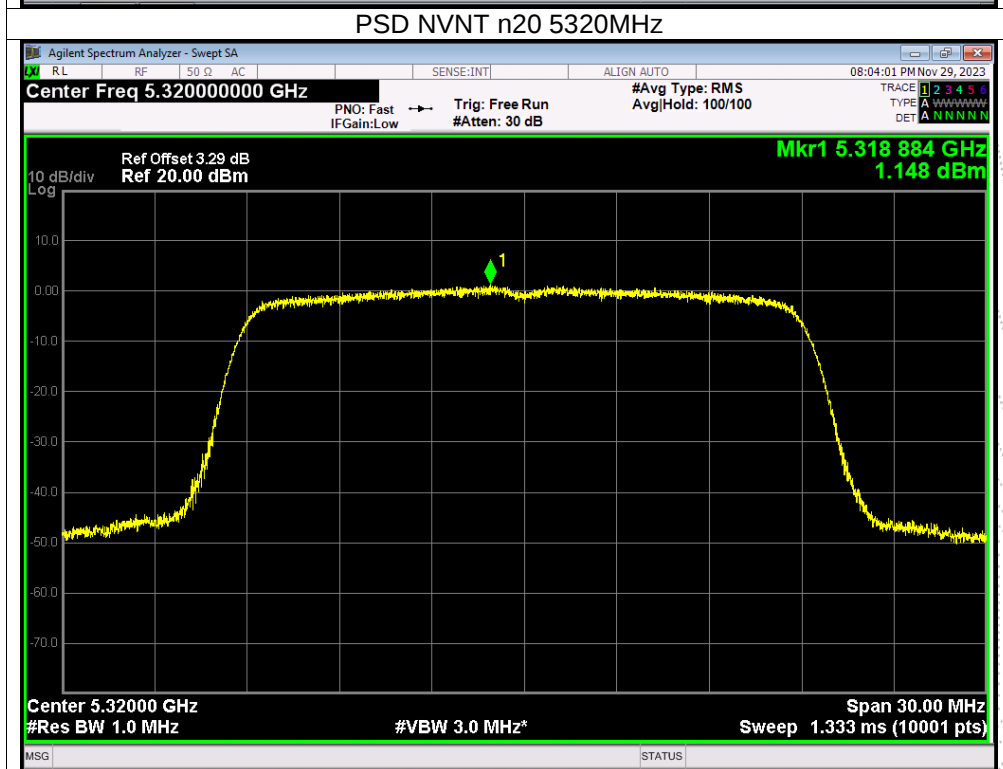
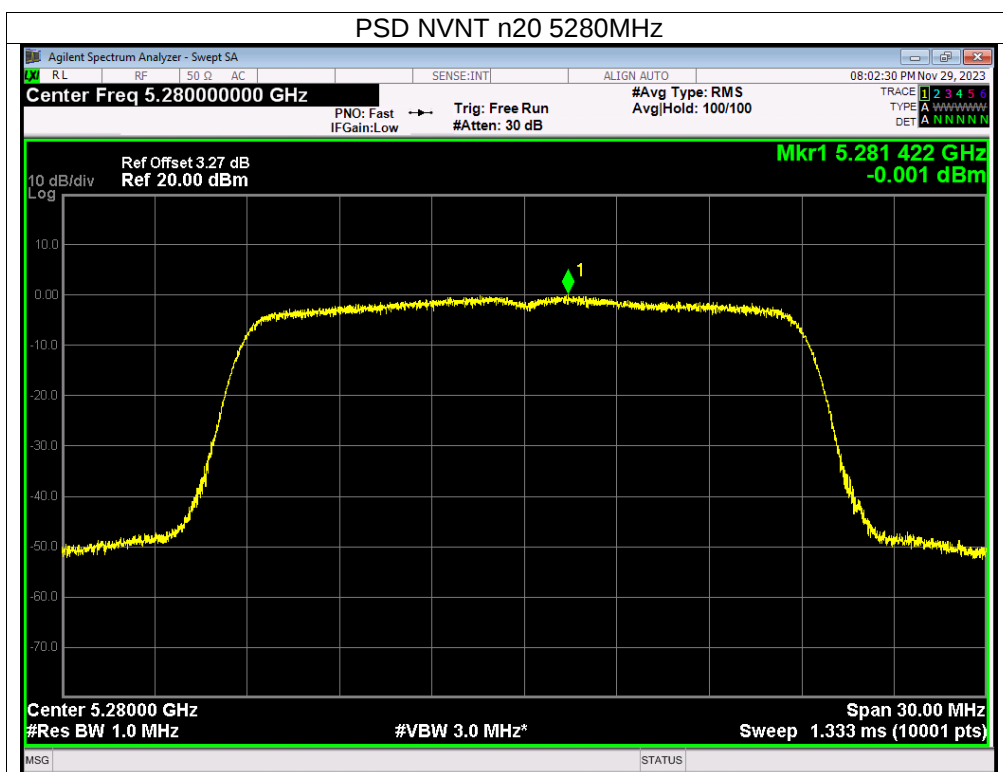
Antenna A gain:3.21 dBi, Antenna B gain: 3.21 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =6.22 dBi>6dbi

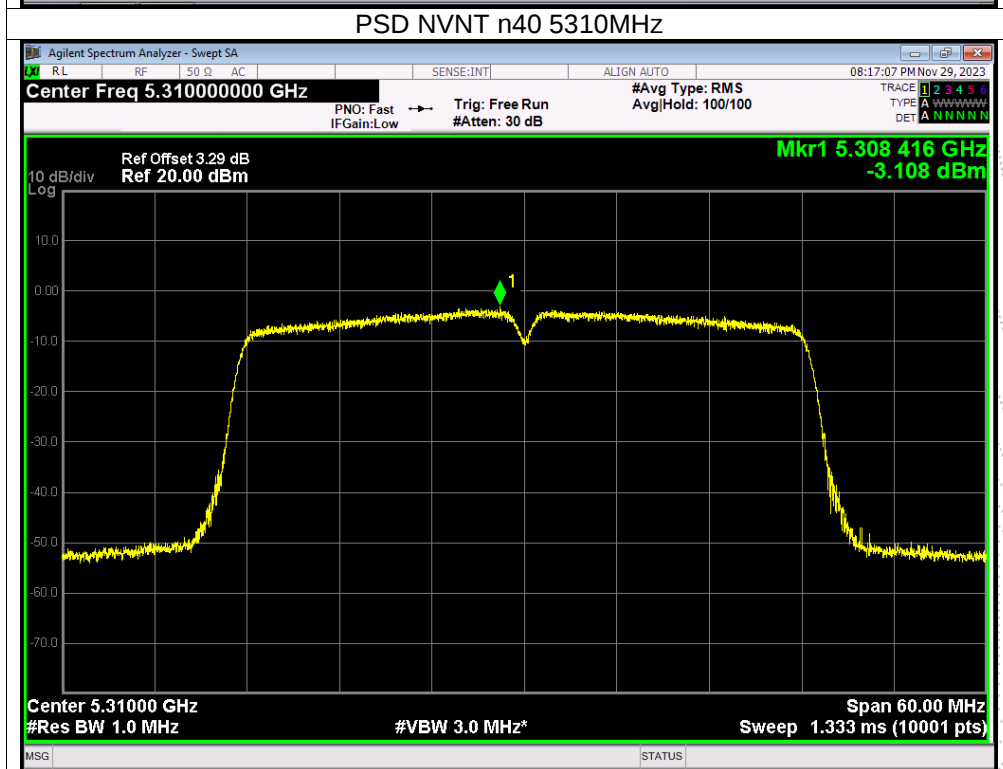
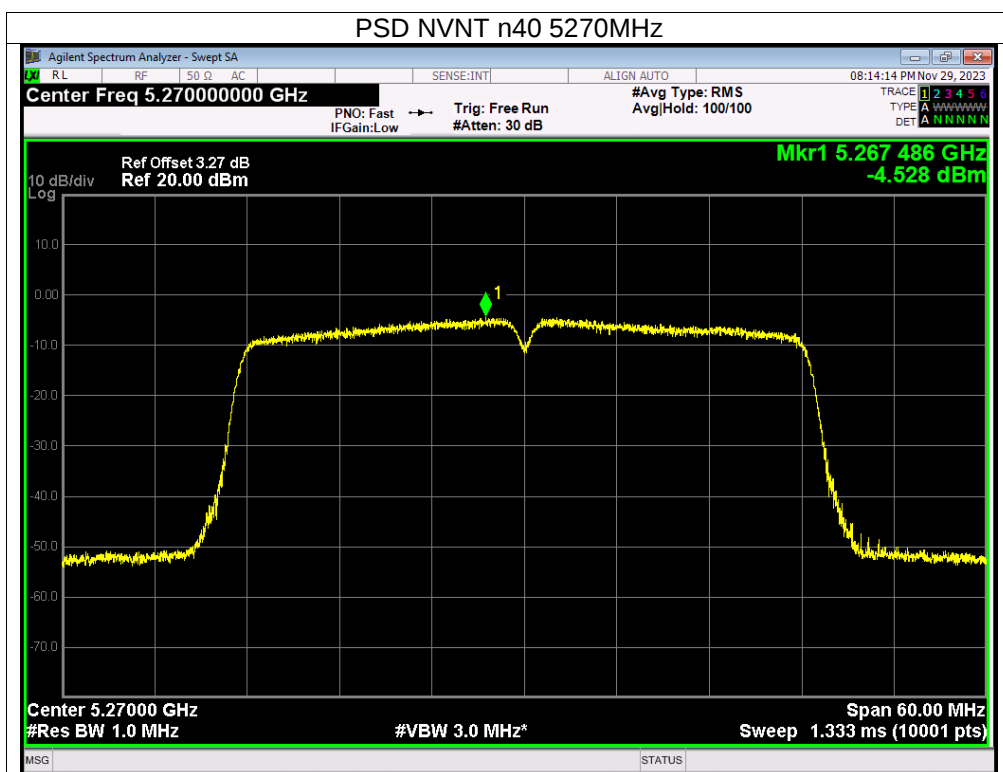
Limit=11-(6.22-6)=10.78 dbi

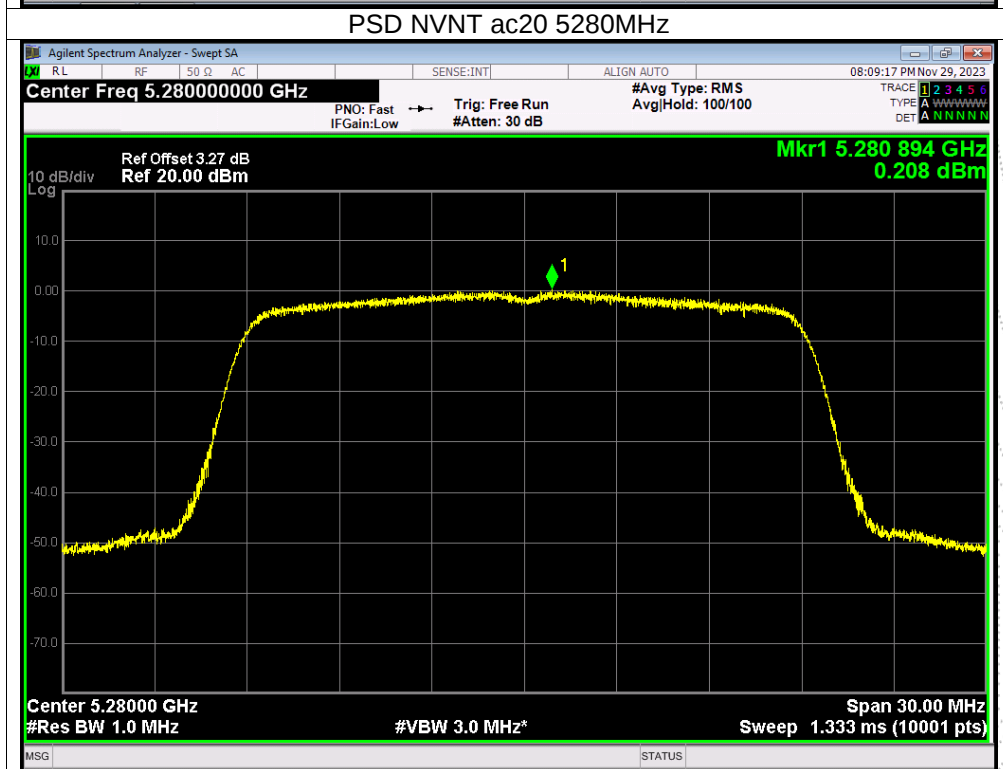
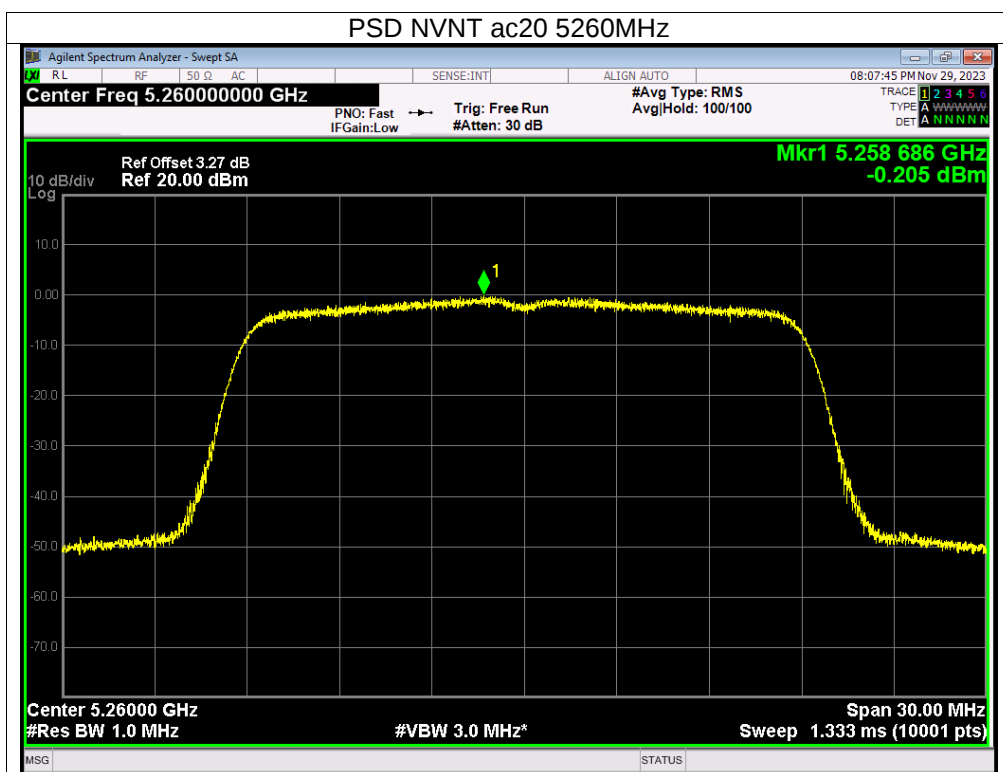
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

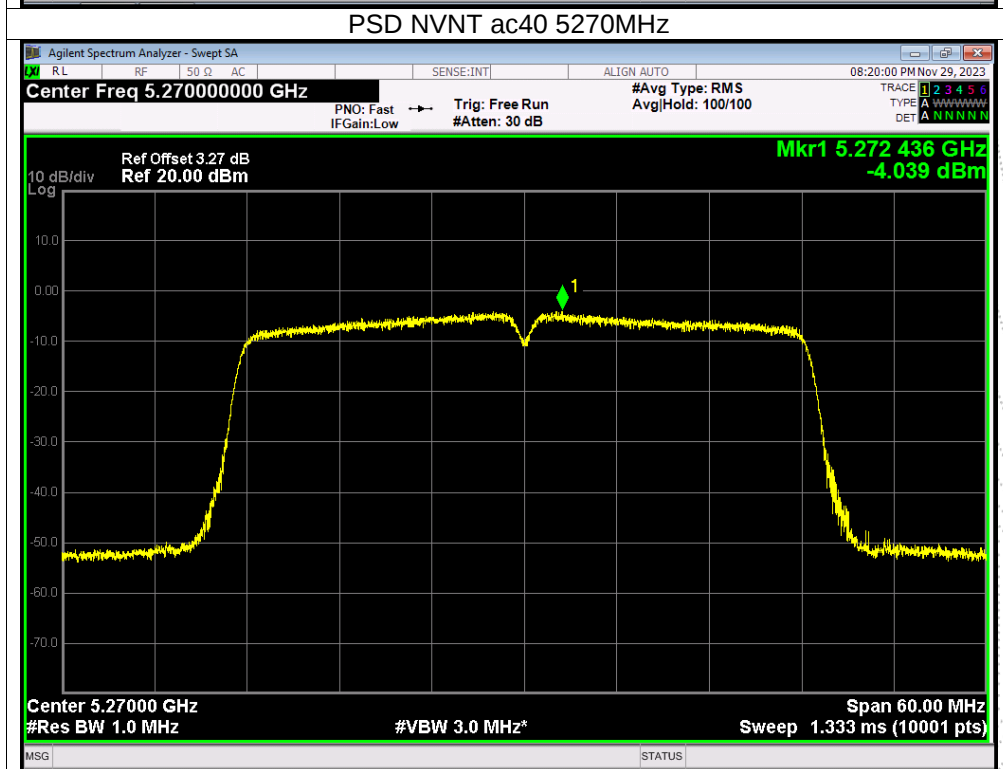
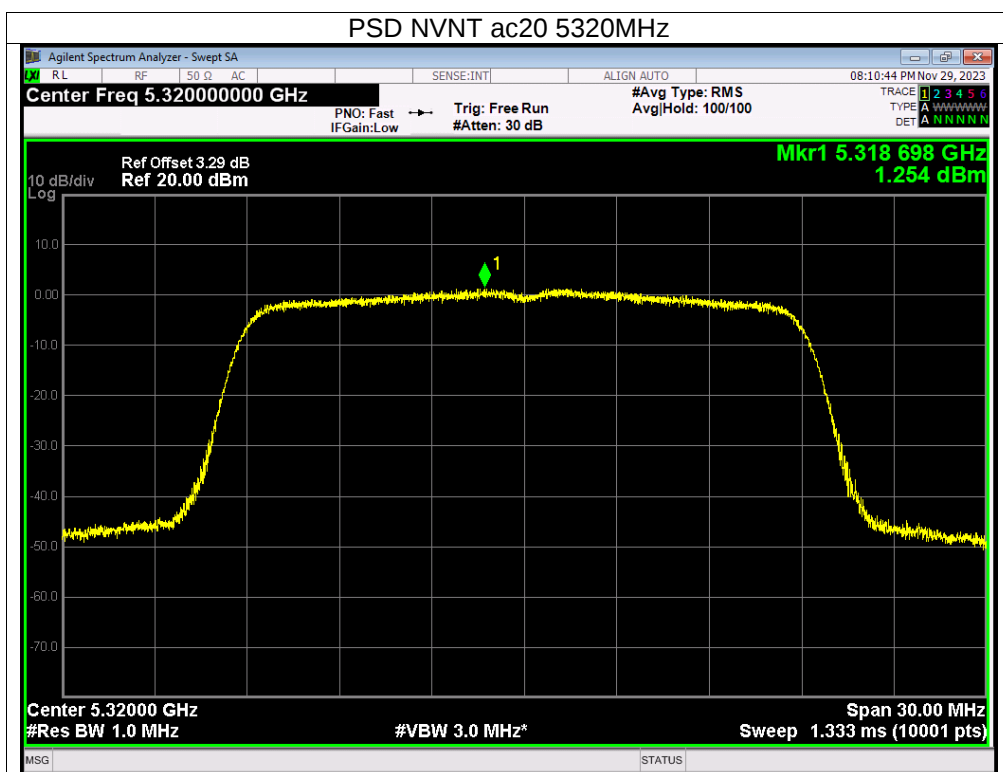


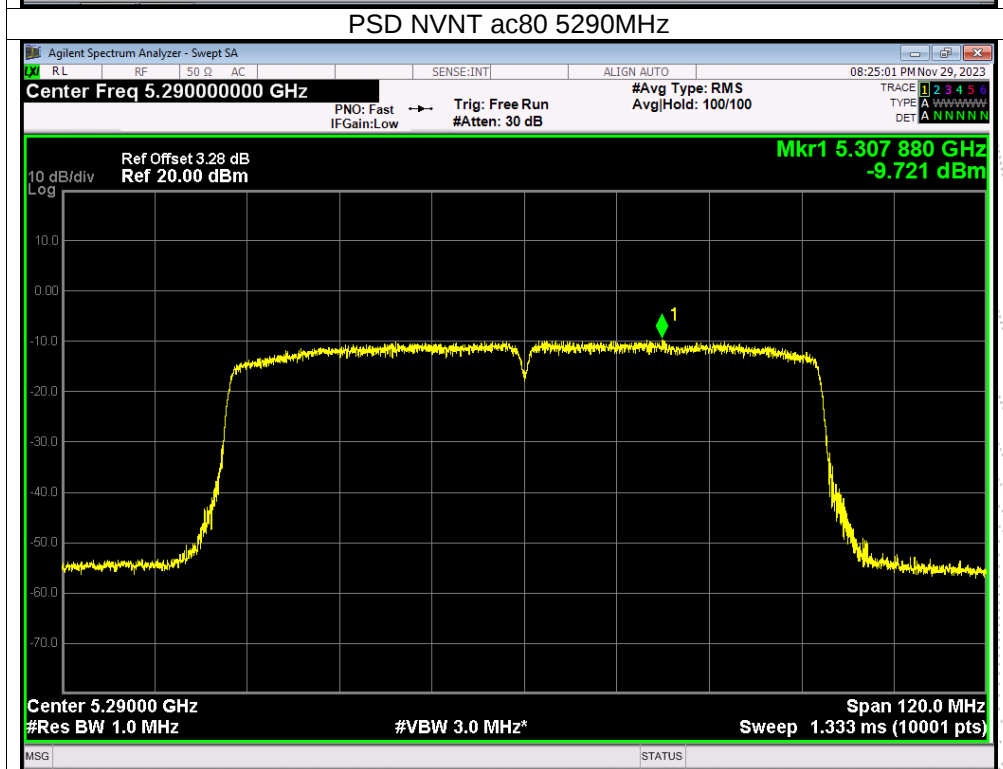
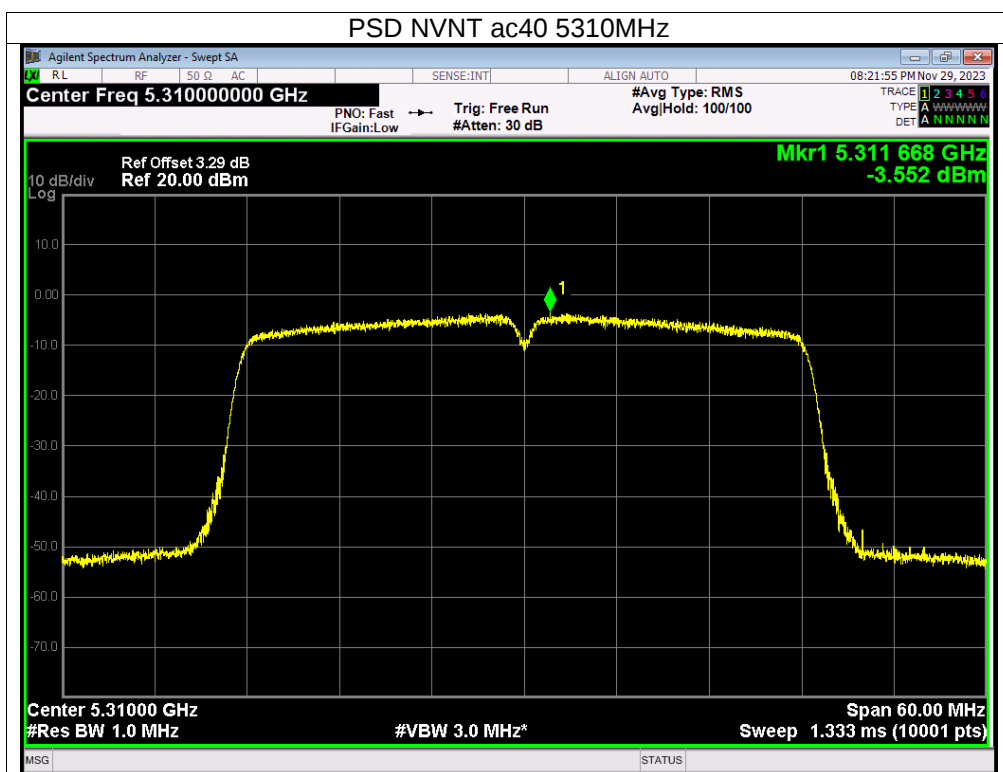












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V
Test Mode:	(5500-5700MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)		Total (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant A	Ant B			
NVNT	a	5500	1.85	2.04	/	11	Pass
NVNT	a	5580	1.43	2.17	/	11	Pass
NVNT	a	5700	4.1	0.91	/	11	Pass
NVNT	n20	5500	-0.13	0.24	3.07	10.60	Pass
NVNT	n20	5580	-0.17	0.82	3.36	10.60	Pass
NVNT	n20	5700	0.03	-0.44	2.81	10.60	Pass
NVNT	n40	5510	-4.59	-4.32	-1.44	10.60	Pass
NVNT	n40	5550	-4.24	-4.03	-1.12	10.60	Pass
NVNT	n40	5670	-4	-3.94	-0.96	10.60	Pass
NVNT	ac20	5500	0.13	0.08	3.12	10.60	Pass
NVNT	ac20	5580	-0.09	0.83	3.40	10.60	Pass
NVNT	ac20	5700	1.01	-0.44	3.36	10.60	Pass
NVNT	ac40	5510	-4.69	-4.36	-1.51	10.60	Pass
NVNT	ac40	5550	-4.5	-4.24	-1.36	10.60	Pass
NVNT	ac40	5670	-3.78	-4.95	-1.32	10.60	Pass
NVNT	ac80	5530	-9.65	-8.78	-6.18	10.60	Pass

Note:

Antenna A gain:3.39 dBi, Antenna B gain: 3.39 dBi, Directional gain=[GainANT + 10 log(NANT) dBi] =6.40 dBi>6dbi

Limit=11-(6.40-6)=10.60 dbi

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

