

TEST REPORT

Report No.: BCTC2410693705-5E

Applicant: Imagineear Ltd

Product Name: Media player

Test Model: XP4

Tested Date: 2024-10-16 to 2024-11-29

Issued Date: 2025-01-13

Shenzhen BCTC Testing Co., Ltd.



FCC ID:2ASPC-XP4

Product Name: Media player
Trademark: N/A
Model/Type Reference: XP4
Prepared For: Imagineear Ltd
Address: The Blomfield Rooms, Fulham Palace, Bishop's Avenue, London SW6 6EA, United Kingdom
Manufacturer: Chempros Limited
Address: Unit 2312, Eastern Tower, Coastal Era Building, Nanshan, Shenzhen, CHINA, 518051
Prepared By: Shenzhen BCTC Testing Co., Ltd.
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Sample Received Date: 2024-10-16
Sample Tested Date: 2024-10-16 to 2024-11-29
Report No.: BCTC2410693705-5E
Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

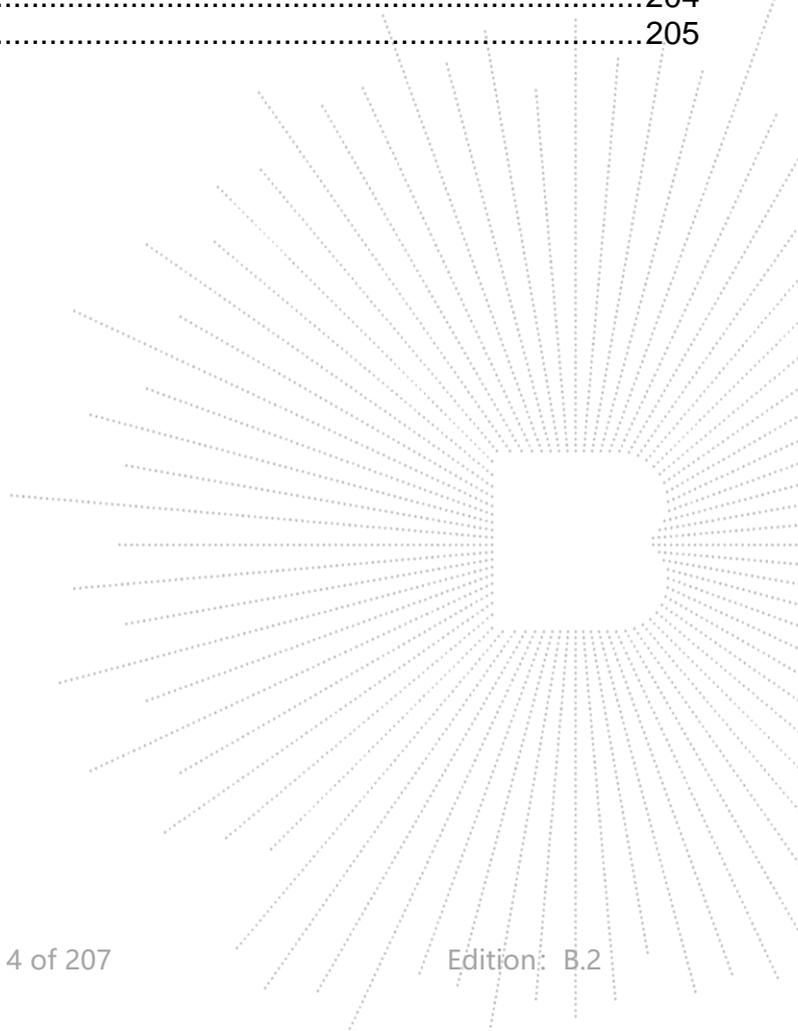
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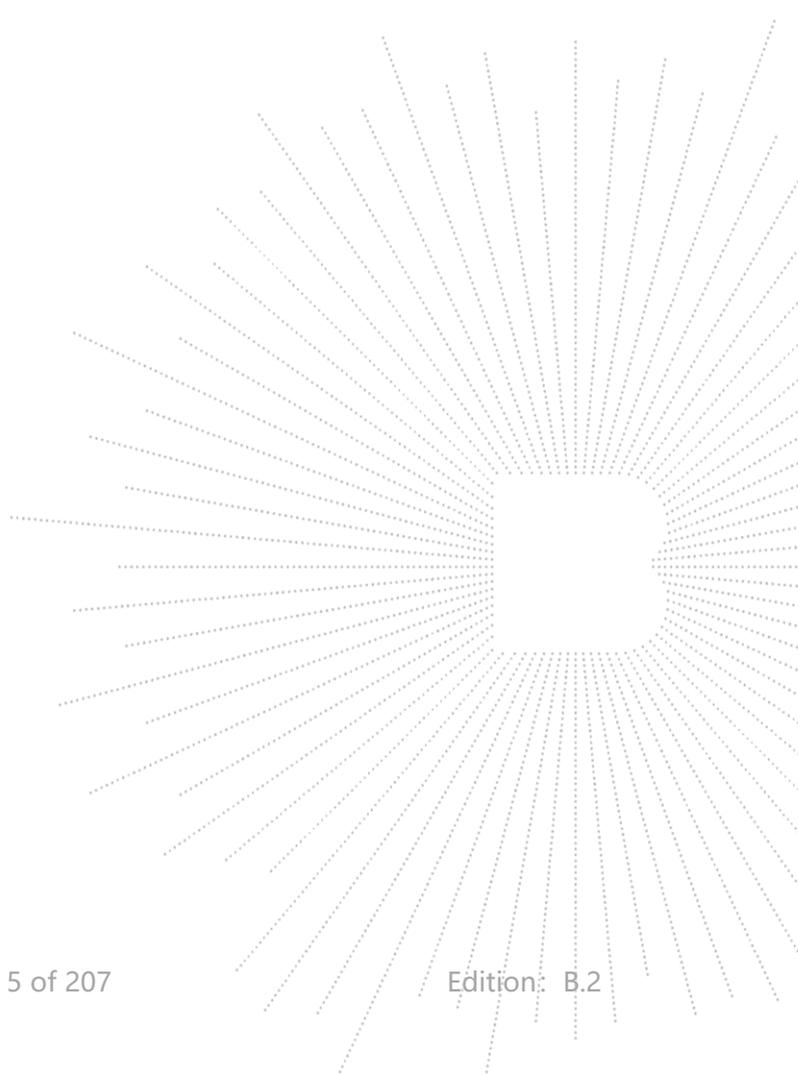
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(Note: N/A Means Not Applicable)



1. Version

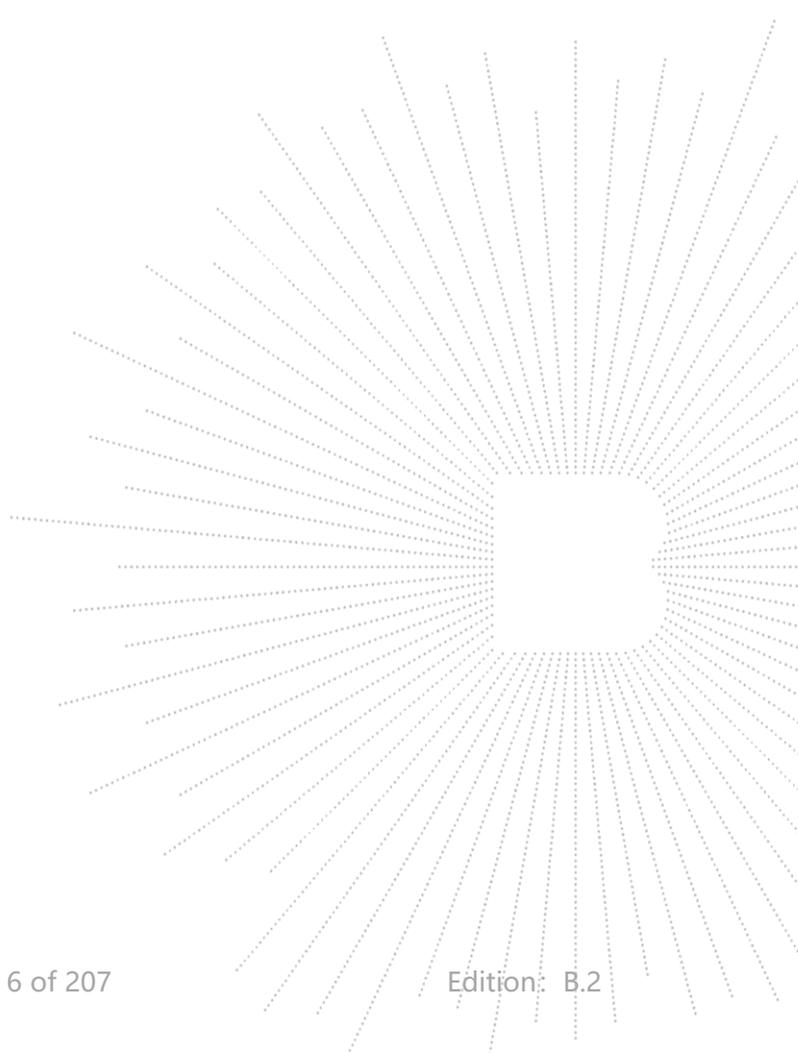
Report No.	Issue Date	Description	Approved
BCTC2410693705-5E	2025-01-13	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

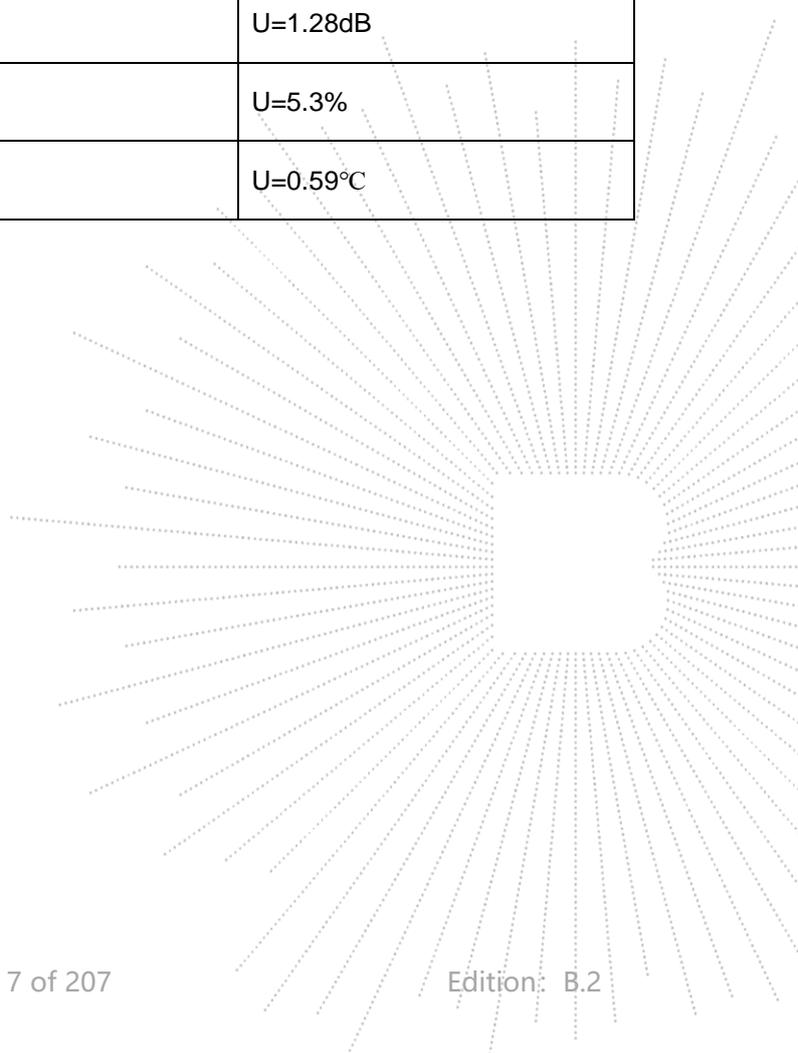
No.	Test Parameter	Clause No.	Results
1	Spurious Radiated Emissions	15.209(a) 15.407 (b)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 a 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 a	PASS
6	Band Edge	15.407 b	PASS
7	Power Spectral Density	15.407 a	PASS
8	Spurious Emissions at Antenna Terminals	15.407 b	PASS
9	Antenna Requirement	15.203	PASS



3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

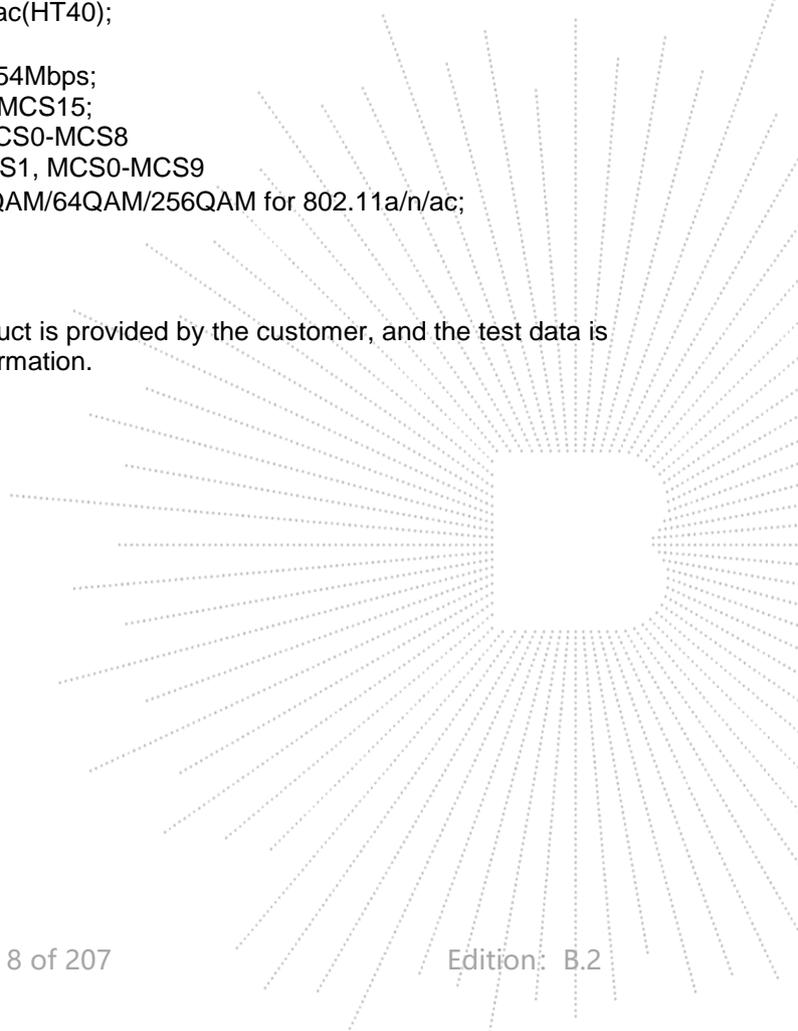
No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C



4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	XP4	
Model differences:	N/A	
Device type:	Client	
TPC Function:	<input type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Not Applicable
Hardware Version:	N/A	
Software Version:	N/A	
IEEE 802.11 WLAN Mode Supported:	802.11a/n/ac (20MHz channel bandwidth) 802.11n/ac (40MHz channel bandwidth) 802.11ac (80MHz channel bandwidth)	
Operation Frequency:	5180-5240MHz for 802.11a/n/ac(HT20); 5190-5230MHz for 802.11n/ac(HT40); 5210MHz for 802.11 ac80; 5260-5320MHz for 802.11a/n/ac(HT20); 5270-5310MHz for 802.11n/ac(HT40); 5290MHz for 802.11 ac80; 5500-5700MHz for 802.11a/n/ac(HT20); 5510-5670MHz for 802.11n/ac(HT40); 5530MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n/ac(HT20); 5755-5795 MHz for 802.11n/ac(HT40); 5775MHz for 802.11 ac80	
Data Rate:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac/(VHT20): NSS1, MCS0-MCS8 802.11ac/(VHT40/VHT80):NSS1, MCS0-MCS9	
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;	
Antenna installation:	Internal antenna	
Antenna Gain:	-8.29dBi	
Remark:	The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.	
Ratings:	DC 5V, 1.3A	
Battery:	DC 3.7 V, 2200 mAh	



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	Media player	N/A	XP4	N/A	EUT
E-2	Adapter	N/A	N/A	N/A	Auxiliary

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

Notes:

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

4.4 Channel List

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

4.5 Test Mode

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

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

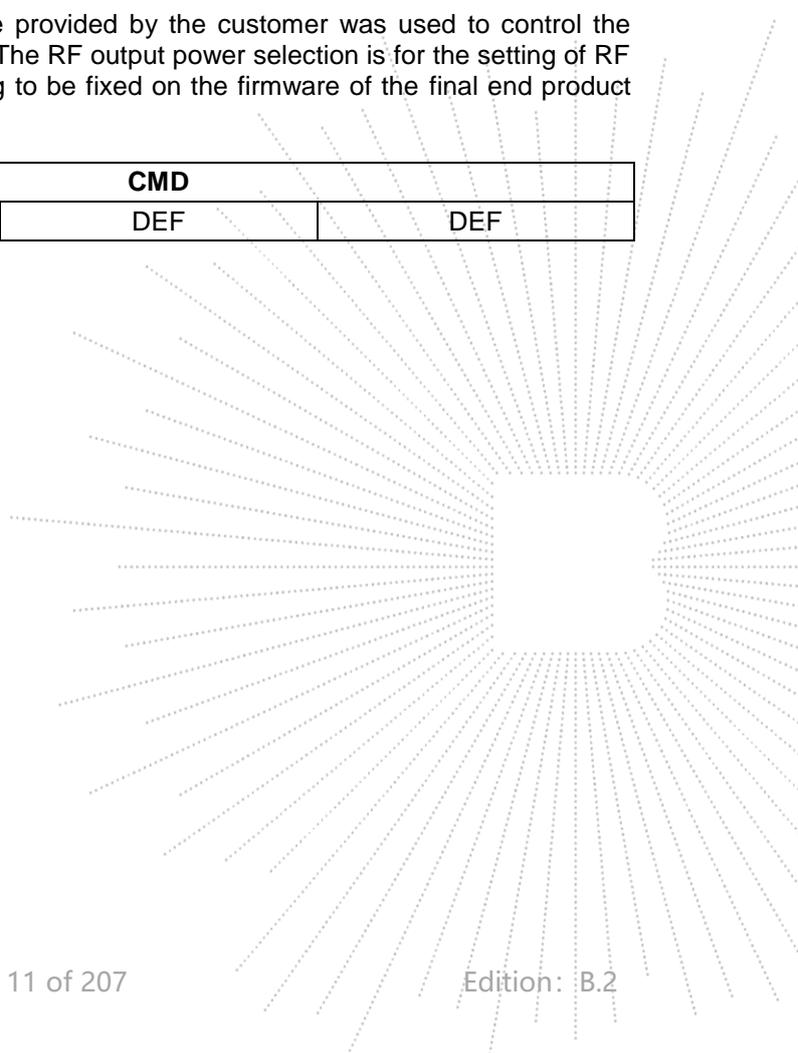
Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	CMD		
Parameters	DEF	DEF	DEF



5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

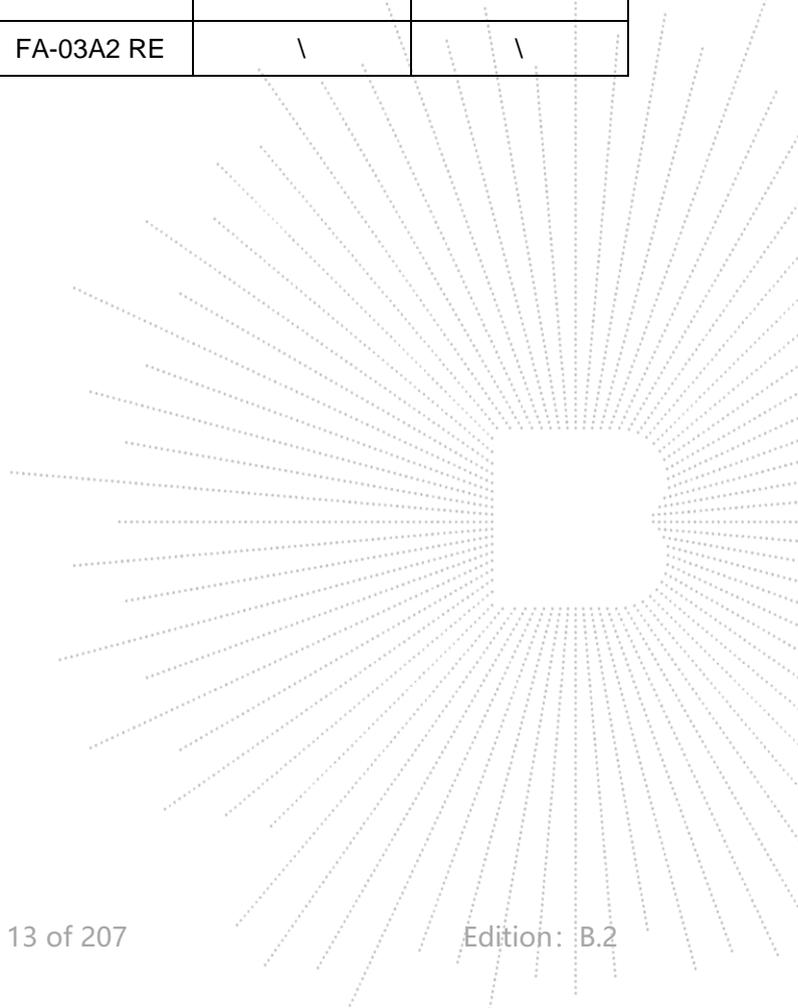
ISED CAB identifier: CN0017

5.2 Test Instrument Used

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

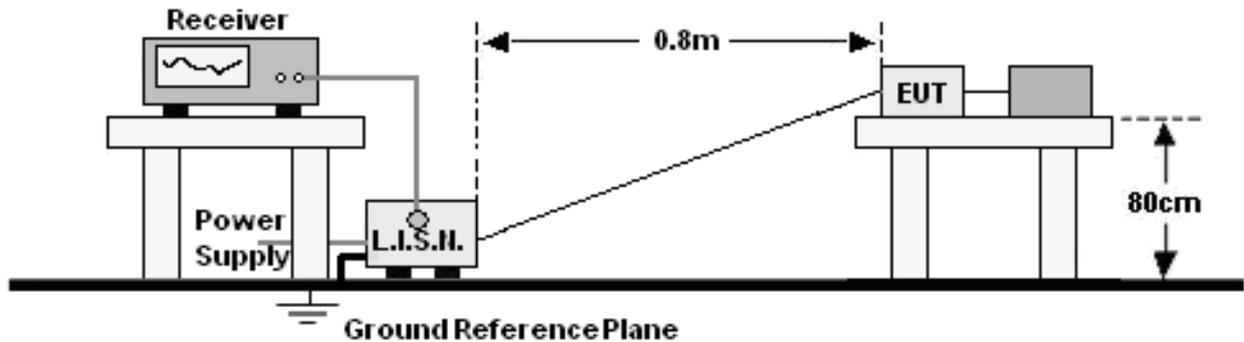
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz z-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025

Radiated Emissions Test (966 Chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 16, 2024	May 15, 2025
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G1 8G-45dB	SK202104090 1	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenn(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:
 1. *Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

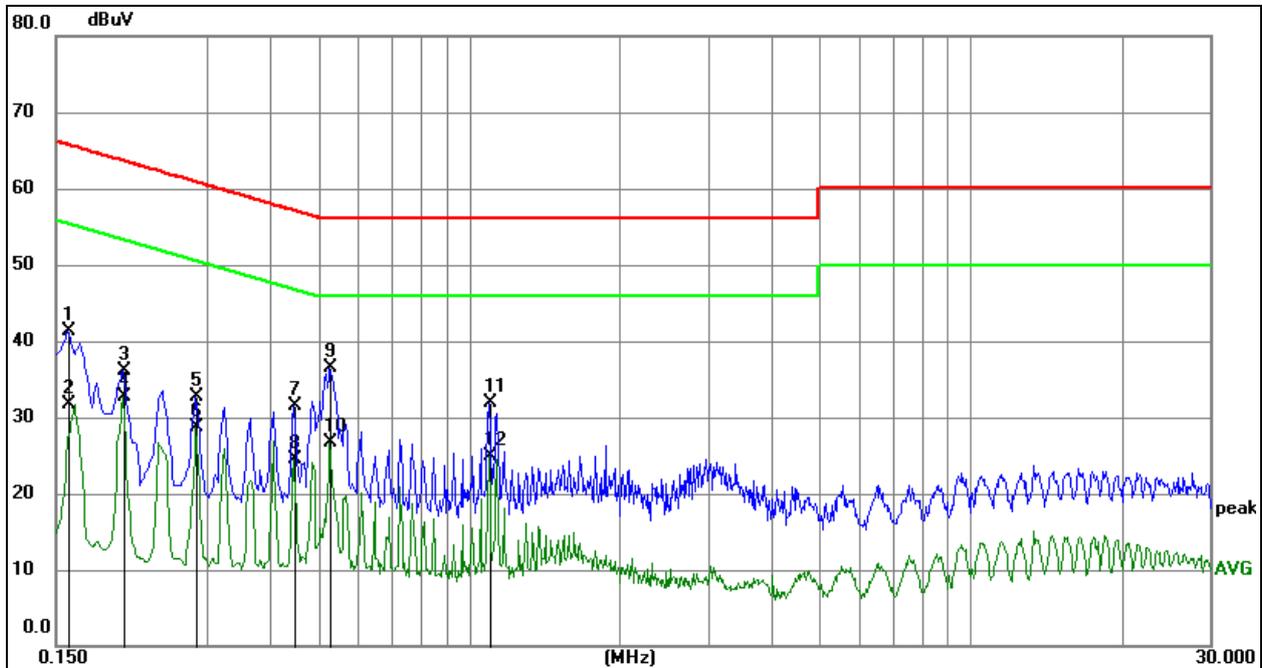
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT operating Conditions

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

6.5 Test Result

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

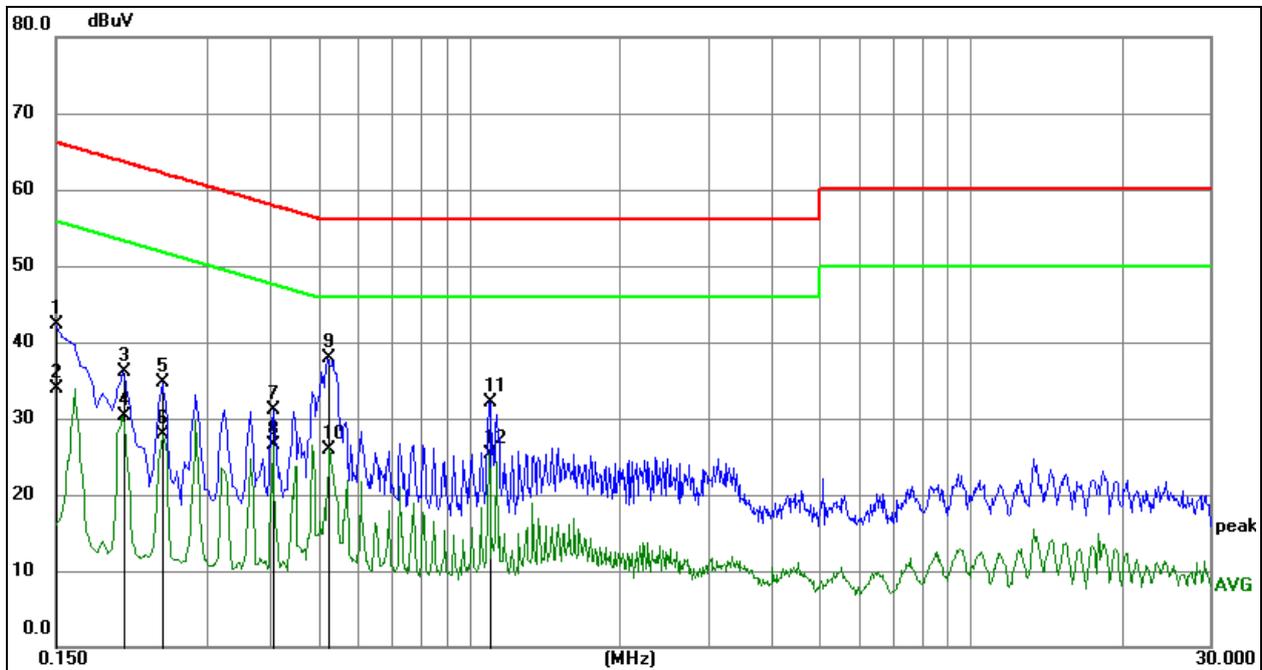


Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1590	31.06	10.25	41.31	65.52	-24.21	QP
2	0.1590	21.49	10.25	31.74	55.52	-23.78	AVG
3	0.2040	25.89	10.27	36.16	63.45	-27.29	QP
4	0.2040	22.45	10.27	32.72	53.45	-20.73	AVG
5	0.2850	22.46	10.28	32.74	60.67	-27.93	QP
6	0.2850	18.46	10.28	28.74	50.67	-21.93	AVG
7	0.4470	21.15	10.30	31.45	56.93	-25.48	QP
8	0.4470	14.14	10.30	24.44	46.93	-22.49	AVG
9	0.5279	26.18	10.32	36.50	56.00	-19.50	QP
10 *	0.5279	16.46	10.32	26.78	46.00	-19.22	AVG
11	1.0949	21.70	10.28	31.98	56.00	-24.02	QP
12	1.0949	14.68	10.28	24.96	46.00	-21.04	AVG

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


Remark:

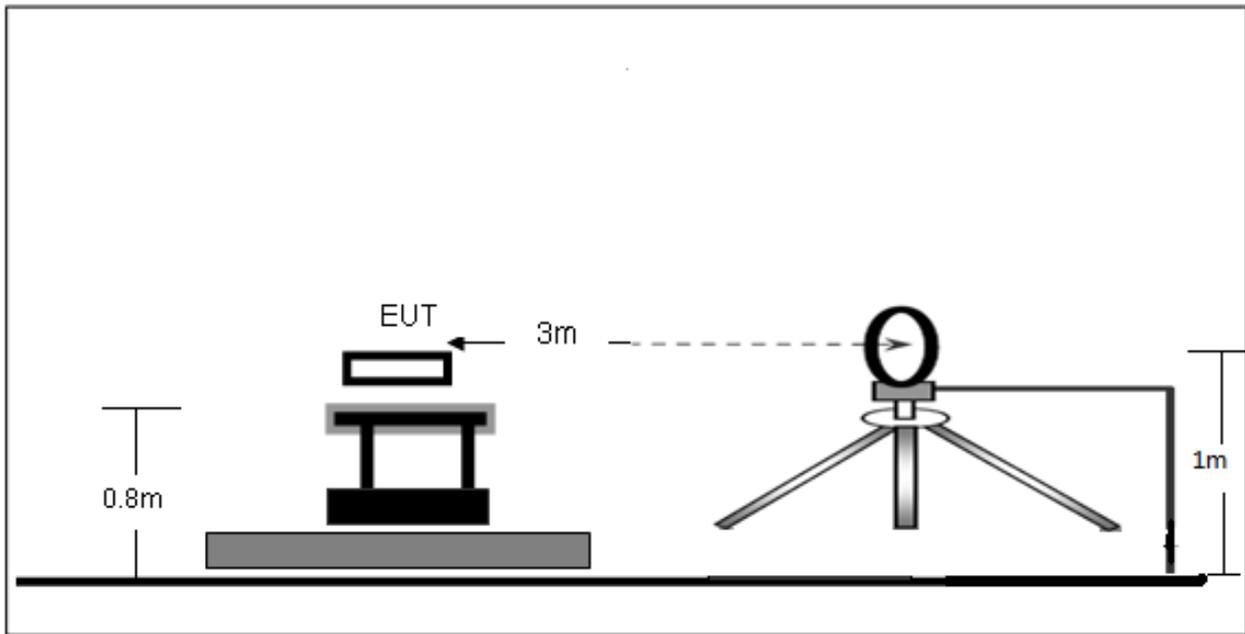
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	32.08	10.25	42.33	66.00	-23.67	QP
2	0.1500	23.58	10.25	33.83	56.00	-22.17	AVG
3	0.2040	25.74	10.27	36.01	63.45	-27.44	QP
4	0.2040	20.10	10.27	30.37	53.45	-23.08	AVG
5	0.2445	24.53	10.27	34.80	61.94	-27.14	QP
6	0.2445	17.71	10.27	27.98	51.94	-23.96	AVG
7	0.4065	20.87	10.29	31.16	57.72	-26.56	QP
8	0.4065	16.13	10.29	26.42	47.72	-21.30	AVG
9 *	0.5234	27.61	10.32	37.93	56.00	-18.07	QP
10	0.5234	15.68	10.32	26.00	46.00	-20.00	AVG
11	1.1038	21.86	10.28	32.14	56.00	-23.86	QP
12	1.1038	15.06	10.28	25.34	46.00	-20.66	AVG

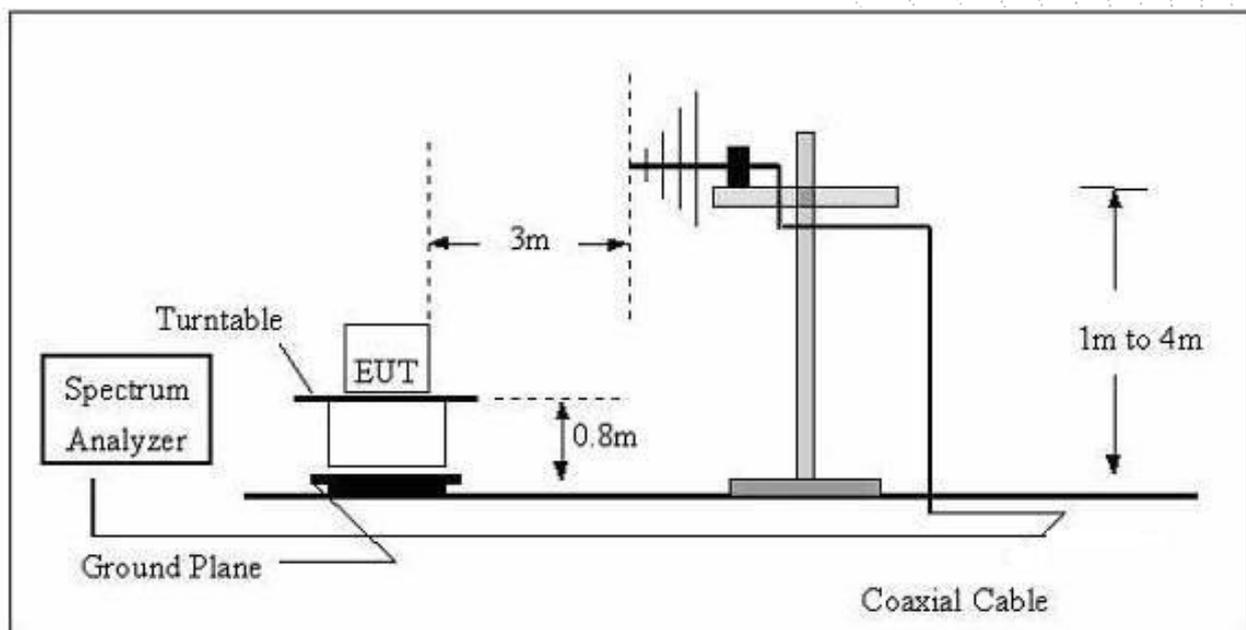
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

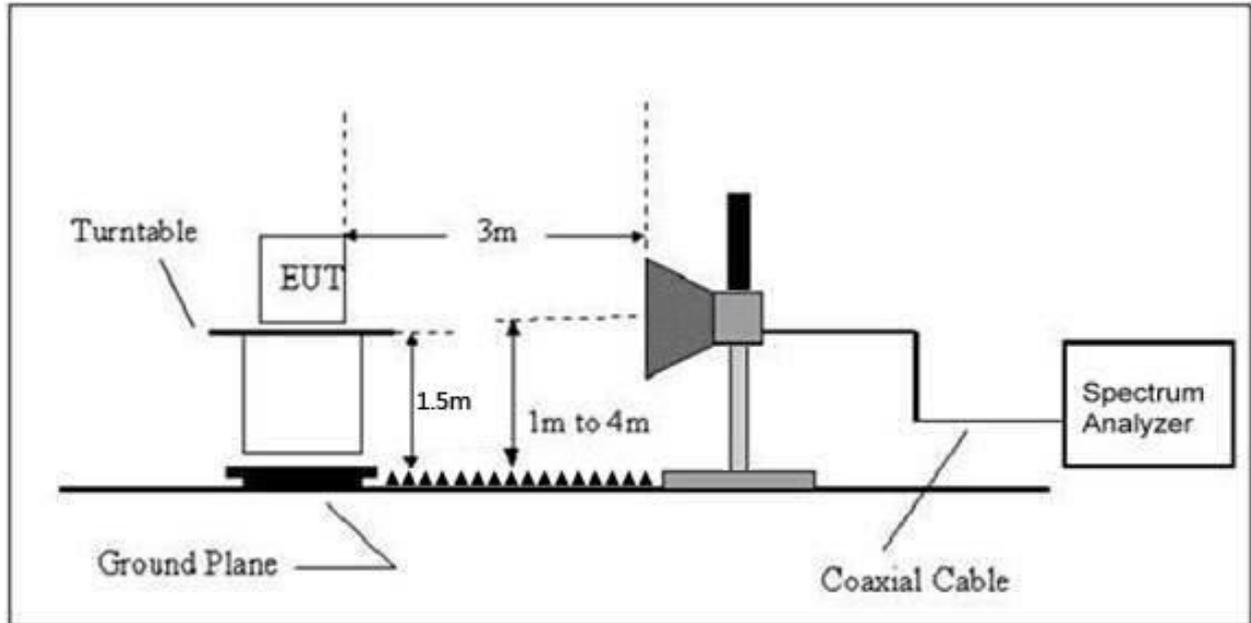
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.

It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

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

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

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

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

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage :	DC 3.7V
Test Mode:	Mode 4	Polarization:	--

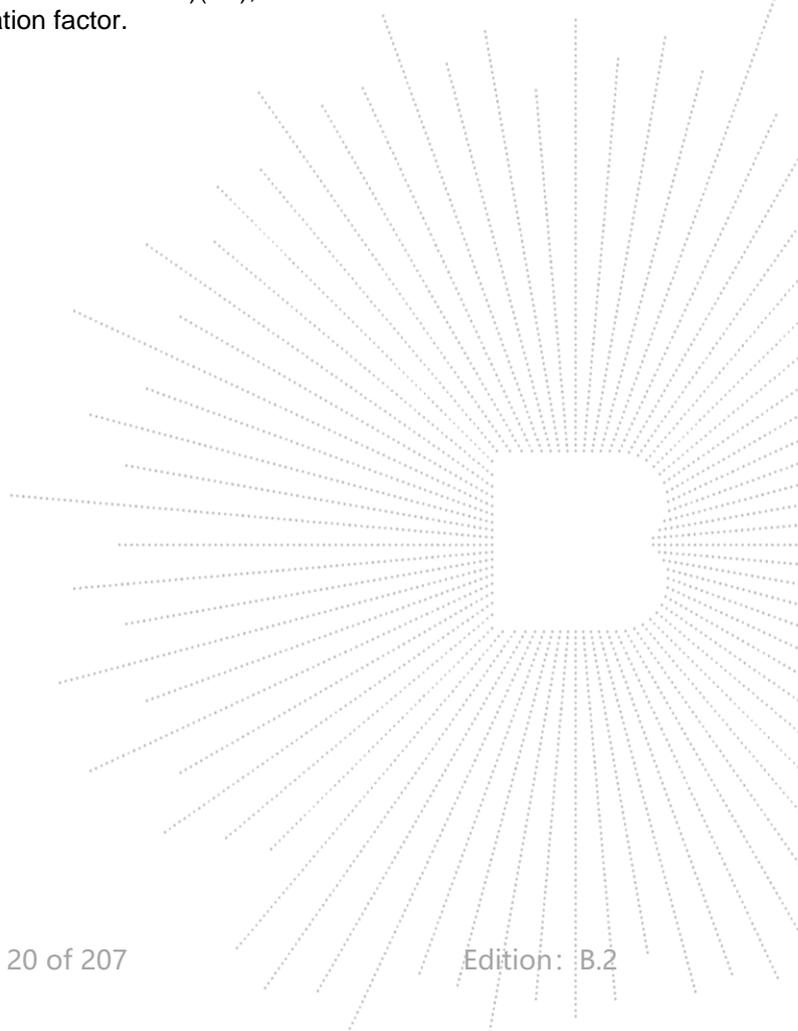
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

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

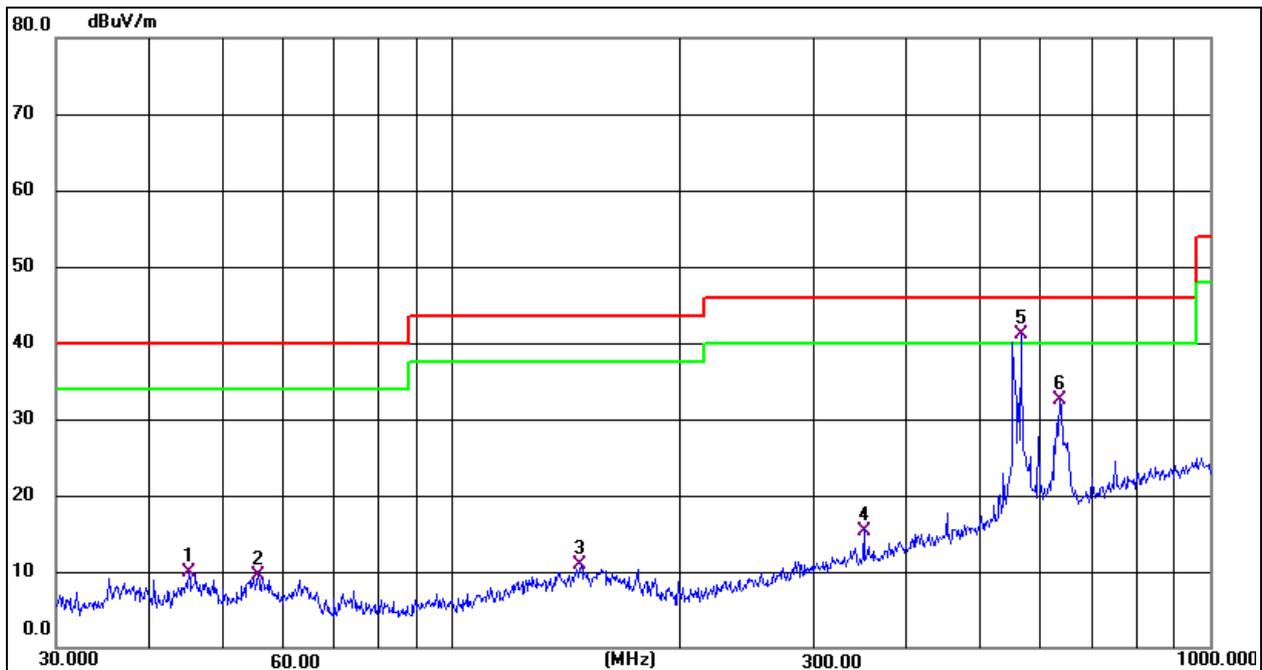
Distance extrapolation factor = $40 \log(\text{specific distance/test distance})(\text{dB})$;

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



Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 4	Polarization :	Horizontal

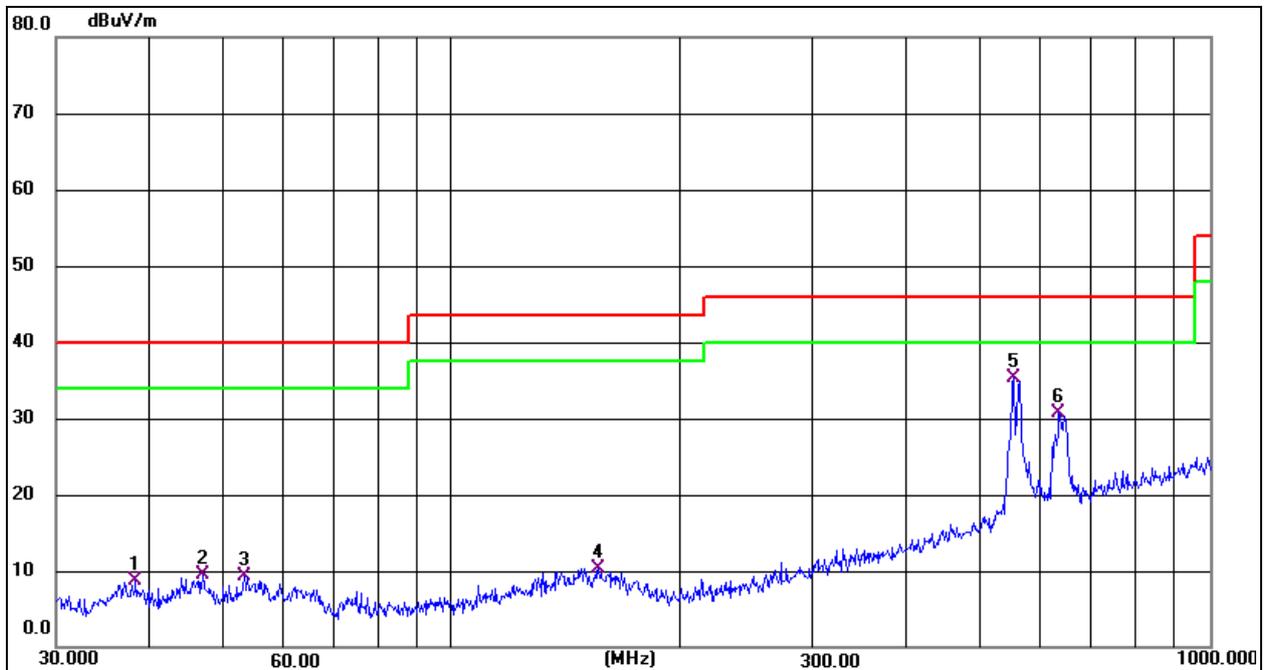


Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	44.9597	26.70	-16.86	9.84	40.00	-30.16	QP
2	55.4876	26.51	-17.00	9.51	40.00	-30.49	QP
3	148.1809	25.46	-14.53	10.93	43.50	-32.57	QP
4	350.0162	27.32	-11.92	15.40	46.00	-30.60	QP
5 *	564.1441	47.11	-5.92	41.19	46.00	-4.81	QP
6	634.4633	36.57	-4.13	32.44	46.00	-13.56	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 4	Polarization :	Vertical


Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.2791	25.90	-17.11	8.79	40.00	-31.21	QP
2	46.9742	26.39	-16.84	9.55	40.00	-30.45	QP
3	53.1779	26.16	-16.92	9.24	40.00	-30.76	QP
4	156.3207	25.10	-14.78	10.32	43.50	-33.18	QP
5 *	552.6410	41.57	-6.23	35.34	46.00	-10.66	QP
6	633.3518	34.79	-4.16	30.63	46.00	-15.37	QP

Test Mode:	TX(5.1G) - 802.11a
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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 (5180 MHz)-Above 1G							
Vertical	4434.077	73.19	-20.73	52.46	68.2	-15.74	PK
Vertical	4434.077	59.87	-20.73	39.14	54	-14.86	AV
Vertical	10360.133	64.70	-9.36	55.34	68.2	-12.86	PK
Vertical	10360.133	49.05	-9.36	39.69	54	-14.31	AV
Vertical	15540.175	63.54	-7.84	55.70	74	-18.30	PK
Vertical	15540.175	49.95	-7.84	42.11	54	-11.89	AV
Horizontal	4434.104	72.90	-20.73	52.17	68.2	-16.03	PK
Horizontal	4434.104	59.21	-20.73	38.48	54	-15.52	AV
Horizontal	10360.024	64.05	-9.36	54.69	68.2	-13.51	PK
Horizontal	10360.024	49.43	-9.36	40.07	54	-13.93	AV
Horizontal	15540.032	61.54	-7.84	53.70	74	-20.30	PK
Horizontal	15540.032	49.58	-7.84	41.74	54	-12.26	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.031	73.69	-20.42	53.28	74	-20.72	PK
Vertical	4592.031	59.87	-20.42	39.45	54	-14.55	AV
Vertical	10400.131	64.83	-9.30	55.53	68.2	-12.67	PK
Vertical	10400.131	49.00	-9.30	39.70	54	-14.30	AV
Vertical	15600.157	64.94	-7.82	57.12	74	-16.88	PK
Vertical	15600.157	49.23	-7.82	41.41	54	-12.59	AV
Horizontal	4592.011	72.44	-20.42	52.02	74	-21.98	PK
Horizontal	4592.011	59.54	-20.42	39.12	54	-14.88	AV
Horizontal	10400.182	60.16	-9.30	50.86	68.2	-17.34	PK
Horizontal	10400.182	49.33	-9.30	40.03	54	-13.97	AV
Horizontal	15600.010	64.16	-7.82	56.34	74	-17.66	PK
Horizontal	15600.010	49.77	-7.82	41.95	54	-12.05	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.143	72.14	-20.12	52.02	74	-21.98	PK
Vertical	4739.143	59.10	-20.12	38.98	54	-15.02	AV
Vertical	10480.020	62.06	-9.18	52.88	68.2	-15.32	PK
Vertical	10480.020	49.54	-9.18	40.36	54	-13.64	AV
Vertical	15720.109	61.34	-7.78	53.56	74	-20.44	PK
Vertical	15720.109	49.00	-7.78	41.22	54	-12.78	AV
Horizontal	4739.098	74.89	-20.12	54.77	74	-19.23	PK
Horizontal	4739.098	59.32	-20.12	39.20	54	-14.80	AV
Horizontal	10480.085	60.64	-9.18	51.46	68.2	-16.74	PK
Horizontal	10480.085	49.59	-9.18	40.41	54	-13.59	AV
Horizontal	15720.090	63.16	-7.78	55.38	74	-18.62	PK
Horizontal	15720.090	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 - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT20
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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 (5180 MHz)-Above 1G							
Vertical	4434.061	72.94	-20.73	52.21	68.2	-15.99	PK
Vertical	4434.061	59.86	-20.73	39.12	54	-14.88	AV
Vertical	10360.170	62.33	-9.36	52.97	68.2	-15.23	PK
Vertical	10360.170	49.91	-9.36	40.55	54	-13.45	AV
Vertical	15540.158	61.75	-7.84	53.91	74	-20.09	PK
Vertical	15540.158	49.36	-7.84	41.52	54	-12.48	AV
Horizontal	4434.138	74.10	-20.73	53.37	68.2	-14.83	PK
Horizontal	4434.138	59.55	-20.73	38.81	54	-15.19	AV
Horizontal	10360.004	61.32	-9.36	51.96	68.2	-16.24	PK
Horizontal	10360.004	49.99	-9.36	40.63	54	-13.37	AV
Horizontal	15540.126	62.52	-7.84	54.68	74	-19.32	PK
Horizontal	15540.126	49.82	-7.84	41.98	54	-12.02	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.044	71.02	-20.42	50.60	74	-23.40	PK
Vertical	4592.044	59.07	-20.42	38.66	54	-15.34	AV
Vertical	10400.167	61.90	-9.30	52.60	68.2	-15.60	PK
Vertical	10400.167	49.96	-9.30	40.66	54	-13.34	AV
Vertical	15600.110	64.27	-7.82	56.45	74	-17.55	PK
Vertical	15600.110	49.75	-7.82	41.93	54	-12.07	AV
Horizontal	4592.190	74.45	-20.42	54.04	74	-19.96	PK
Horizontal	4592.190	59.88	-20.42	39.47	54	-14.53	AV
Horizontal	10400.168	61.26	-9.30	51.96	68.2	-16.24	PK
Horizontal	10400.168	49.61	-9.30	40.31	54	-13.69	AV
Horizontal	15600.012	61.93	-7.82	54.11	74	-19.89	PK
Horizontal	15600.012	49.48	-7.82	41.66	54	-12.34	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.038	72.06	-20.12	51.94	74	-22.06	PK
Vertical	4739.038	59.39	-20.12	39.27	54	-14.73	AV
Vertical	10480.149	60.25	-9.18	51.07	68.2	-17.13	PK
Vertical	10480.149	49.09	-9.18	39.91	54	-14.09	AV
Vertical	15720.188	60.65	-7.78	52.87	74	-21.13	PK
Vertical	15720.188	49.54	-7.78	41.76	54	-12.24	AV
Horizontal	4739.055	72.62	-20.12	52.50	74	-21.50	PK
Horizontal	4739.055	59.76	-20.12	39.64	54	-14.36	AV
Horizontal	10480.118	62.81	-9.18	53.63	68.2	-14.57	PK
Horizontal	10480.118	49.21	-9.18	40.03	54	-13.97	AV
Horizontal	15720.049	62.48	-7.78	54.70	74	-19.30	PK
Horizontal	15720.049	49.38	-7.78	41.60	54	-12.40	AV

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

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar (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	4434.183	73.68	-20.73	52.95	68.2	-15.25	PK
Vertical	4434.183	59.25	-20.73	38.52	54	-15.48	AV
Vertical	10380.076	62.72	-9.33	53.39	68.2	-14.81	PK
Vertical	10380.076	49.23	-9.33	39.90	54	-14.10	AV
Vertical	15570.050	61.76	-7.83	53.93	74	-20.07	PK
Vertical	15570.050	49.71	-7.83	41.88	54	-12.12	AV
Horizontal	4434.197	71.48	-20.73	50.74	74	-23.26	PK
Horizontal	4434.197	59.95	-20.73	39.22	54	-14.78	AV
Horizontal	10380.092	64.12	-9.33	54.79	68.2	-13.41	PK
Horizontal	10380.092	49.45	-9.33	40.12	54	-13.88	AV
Horizontal	15570.079	63.20	-7.83	55.37	74	-18.63	PK
Horizontal	15570.079	49.90	-7.83	42.07	54	-11.93	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.164	71.11	-20.12	50.99	68.2	-17.21	PK
Vertical	4739.164	59.05	-20.12	38.93	54	-15.07	AV
Vertical	10460.111	61.07	-9.21	51.86	68.2	-16.34	PK
Vertical	10460.111	50.00	-9.21	40.79	54	-13.21	AV
Vertical	15690.112	61.40	-7.79	53.61	74	-20.39	PK
Vertical	15690.112	49.20	-7.79	41.41	54	-12.59	AV
Horizontal	4739.162	74.98	-20.12	54.85	68.2	-13.35	PK
Horizontal	4739.162	59.21	-20.12	39.09	54	-14.91	AV
Horizontal	10460.165	60.56	-9.21	51.35	68.2	-16.85	PK
Horizontal	10460.165	49.45	-9.21	40.24	54	-13.76	AV
Horizontal	15690.062	63.07	-7.79	55.28	74	-18.72	PK
Horizontal	15690.062	49.98	-7.79	42.19	54	-11.81	AV

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

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar (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 (5180 MHz)-Above 1G							
Vertical	4434.073	71.70	-20.73	50.97	68.2	-17.23	PK
Vertical	4434.073	59.57	-20.73	38.84	54	-15.16	AV
Vertical	10360.086	61.19	-9.36	51.83	68.2	-16.37	PK
Vertical	10360.086	49.50	-9.36	40.14	54	-13.86	AV
Vertical	15540.028	61.94	-7.84	54.10	74	-19.90	PK
Vertical	15540.028	49.61	-7.84	41.77	54	-12.23	AV
Horizontal	4434.031	71.74	-20.73	51.00	68.2	-17.20	PK
Horizontal	4434.031	59.82	-20.73	39.08	54	-14.92	AV
Horizontal	10360.178	60.27	-9.36	50.91	68.2	-17.29	PK
Horizontal	10360.178	49.12	-9.36	39.76	54	-14.24	AV
Horizontal	15540.022	62.55	-7.84	54.71	74	-19.29	PK
Horizontal	15540.022	49.08	-7.84	41.24	54	-12.76	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.125	71.66	-20.42	51.25	74	-22.75	PK
Vertical	4592.125	59.04	-20.42	38.63	54	-15.37	AV
Vertical	10400.081	64.63	-9.30	55.33	68.2	-12.87	PK
Vertical	10400.081	49.73	-9.30	40.43	54	-13.57	AV
Vertical	15600.053	61.02	-7.82	53.20	74	-20.80	PK
Vertical	15600.053	49.68	-7.82	41.86	54	-12.14	AV
Horizontal	4592.191	74.98	-20.42	54.57	74	-19.43	PK
Horizontal	4592.191	59.83	-20.42	39.41	54	-14.59	AV
Horizontal	10400.078	62.13	-9.30	52.83	68.2	-15.37	PK
Horizontal	10400.078	49.02	-9.30	39.72	54	-14.28	AV
Horizontal	15600.083	63.96	-7.82	56.14	74	-17.86	PK
Horizontal	15600.083	49.18	-7.82	41.36	54	-12.64	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.129	72.60	-20.12	52.48	74	-21.52	PK
Vertical	4739.129	59.99	-20.12	39.87	54	-14.13	AV
Vertical	10480.119	62.01	-9.18	52.83	68.2	-15.37	PK
Vertical	10480.119	49.56	-9.18	40.38	54	-13.62	AV
Vertical	15720.172	61.12	-7.78	53.34	74	-20.66	PK
Vertical	15720.172	49.01	-7.78	41.23	54	-12.77	AV
Horizontal	4739.058	71.69	-20.12	51.56	74	-22.44	PK
Horizontal	4739.058	59.96	-20.12	39.84	54	-14.16	AV
Horizontal	10480.108	61.24	-9.18	52.06	68.2	-16.14	PK
Horizontal	10480.108	49.43	-9.18	40.25	54	-13.75	AV
Horizontal	15720.138	60.48	-7.78	52.70	74	-21.30	PK
Horizontal	15720.138	49.63	-7.78	41.85	54	-12.15	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.

Test Mode:	TX(5.1G) - 802.11ac-HT40
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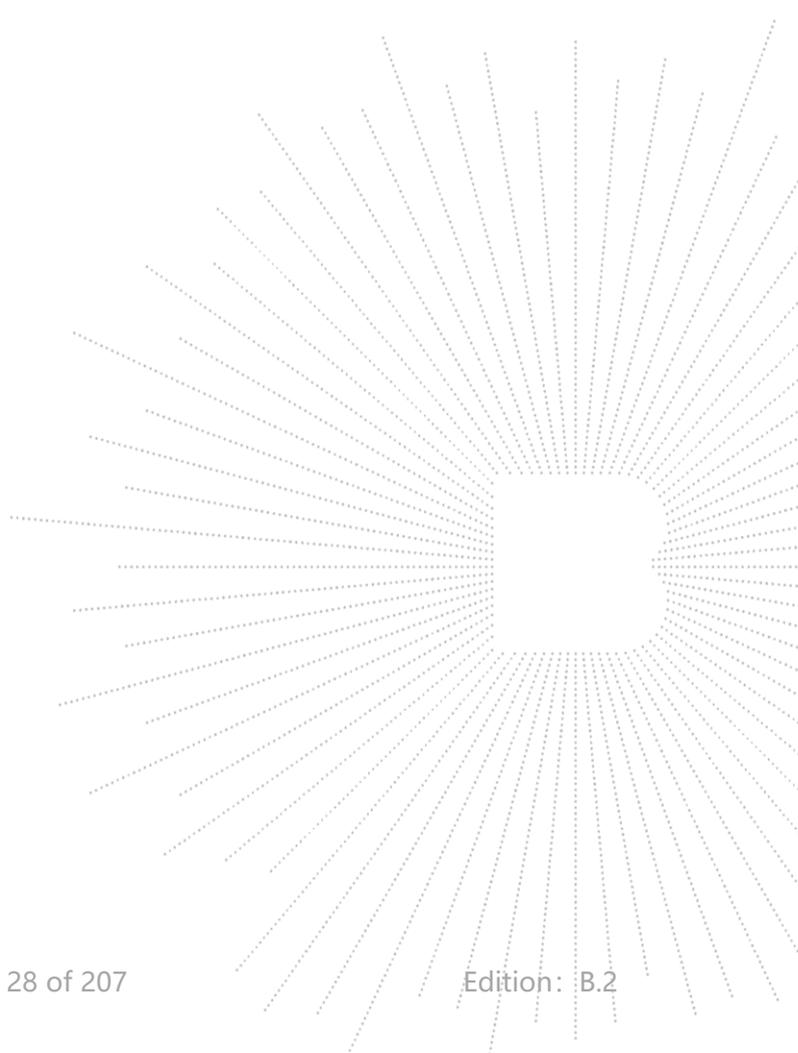
Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.165	74.84	-20.73	54.11	68.2	-14.09	PK
Vertical	4434.165	59.74	-20.73	39.01	54	-14.99	AV
Vertical	10380.070	60.51	-9.33	51.18	68.2	-17.02	PK
Vertical	10380.070	49.60	-9.33	40.27	54	-13.73	AV
Vertical	15570.086	60.50	-7.83	52.67	74	-21.33	PK
Vertical	15570.086	49.23	-7.83	41.40	54	-12.60	AV
Horizontal	4434.131	70.56	-20.73	49.82	74	-24.18	PK
Horizontal	4434.131	59.75	-20.73	39.01	54	-14.99	AV
Horizontal	10380.157	62.20	-9.33	52.87	68.2	-15.33	PK
Horizontal	10380.157	49.22	-9.33	39.89	54	-14.11	AV
Horizontal	15570.185	64.89	-7.83	57.06	74	-16.94	PK
Horizontal	15570.185	49.80	-7.83	41.97	54	-12.03	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.184	71.26	-20.12	51.14	68.2	-17.06	PK
Vertical	4739.184	59.51	-20.12	39.39	54	-14.61	AV
Vertical	10460.023	63.12	-9.21	53.91	68.2	-14.29	PK
Vertical	10460.023	49.15	-9.21	39.94	54	-14.06	AV
Vertical	15690.198	60.05	-7.79	52.26	74	-21.74	PK
Vertical	15690.198	49.30	-7.79	41.51	54	-12.49	AV
Horizontal	4739.158	71.36	-20.12	51.23	68.2	-16.97	PK
Horizontal	4739.158	59.75	-20.12	39.63	54	-14.37	AV
Horizontal	10460.093	64.01	-9.21	54.80	68.2	-13.40	PK
Horizontal	10460.093	49.33	-9.21	40.12	54	-13.88	AV
Horizontal	15690.107	63.58	-7.79	55.79	74	-18.21	PK
Horizontal	15690.107	49.67	-7.79	41.88	54	-12.12	AV

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

Test Mode:	TX(5.1G) - 802.11ac-HT80
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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
(5210 MHz)-Above 1G							
Vertical	4434.184	74.51	-20.73	53.78	68.2	-14.42	PK
Vertical	4434.184	59.73	-20.73	39.00	54	-15.00	AV
Vertical	10420.173	64.15	-9.27	54.88	68.2	-13.32	PK
Vertical	10420.173	49.74	-9.27	40.47	54	-13.53	AV
Vertical	15630.007	63.52	-7.81	55.71	74	-18.29	PK
Vertical	15630.007	49.95	-7.81	42.14	54	-11.86	AV
Horizontal	4434.196	73.61	-20.73	52.87	68.2	-15.33	PK
Horizontal	4434.196	59.05	-20.73	38.32	54	-15.68	AV
Horizontal	10420.029	62.46	-9.27	53.19	68.2	-15.01	PK
Horizontal	10420.029	49.73	-9.27	40.46	54	-13.54	AV
Horizontal	15630.035	60.13	-7.81	52.32	74	-21.68	PK
Horizontal	15630.035	49.32	-7.81	41.51	54	-12.49	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.



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

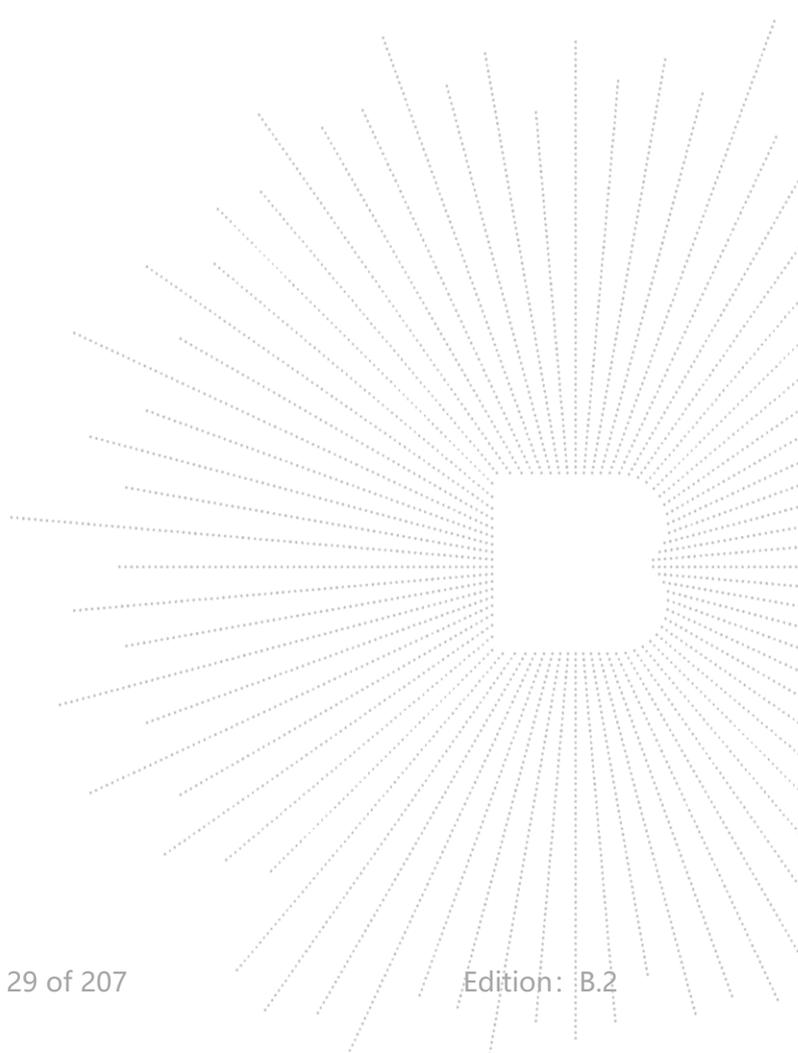
Test mode: 802.11ac Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5122.850	H	46.28	74	34.21	54
5122.850	V	46.31	74	33.58	54

Test mode: 802.11ac Frequency(MHz): 5320

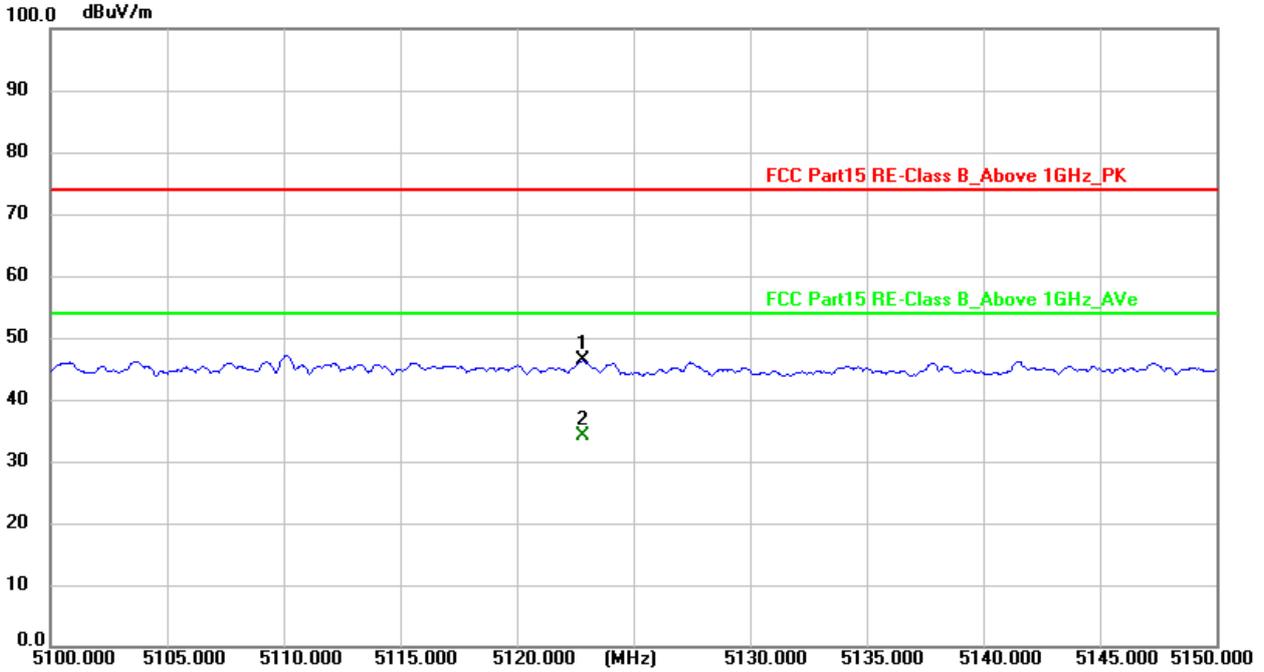
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5366.505	H	46.71	74	34.25	54
5366.505	V	46.52	74	36.21	54

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



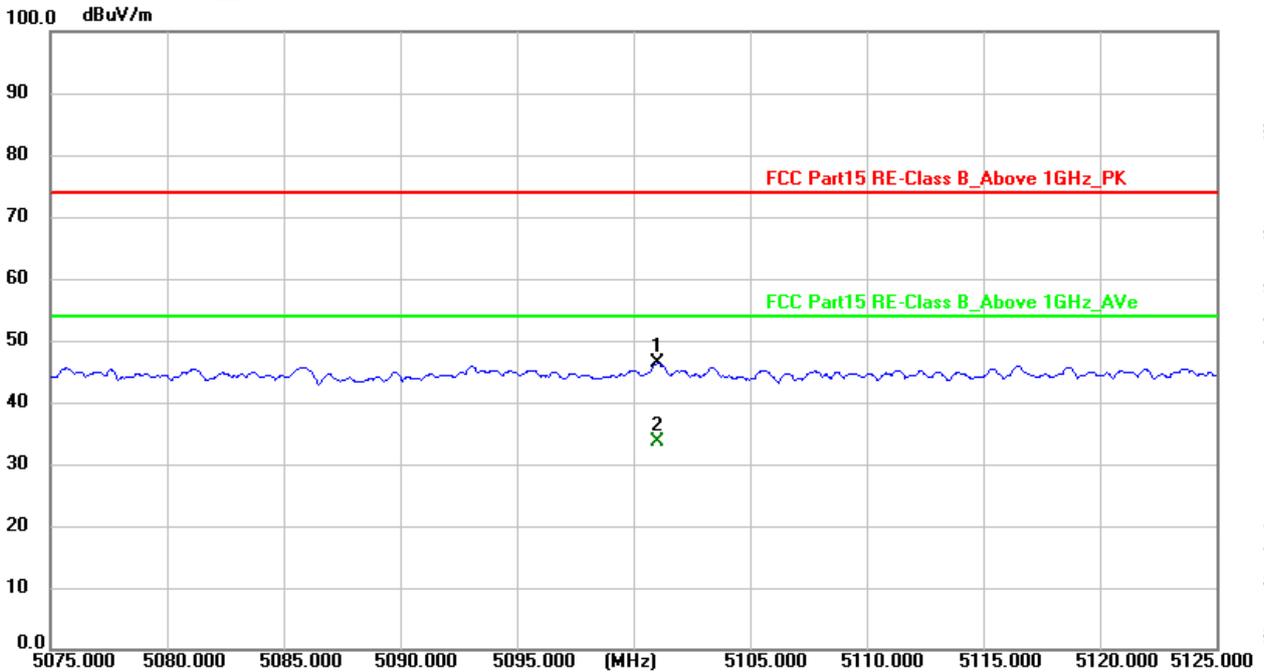
U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
 802.11ac 802.11n(HT20) 802.11n(HT40)
 5180 Ant.Pol H



U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
 802.11ac 802.11n(HT20) 802.11n(HT40)
 5180 Ant.Pol V



Test Mode:	TX(5.3G) - 802.11a
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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 (5260 MHz)-Above 1G							
Vertical	4434.103	74.37	-20.73	53.64	68.2	-14.56	PK
Vertical	4434.103	59.17	-20.73	38.44	54	-15.56	AV
Vertical	10520.043	64.94	-9.12	55.82	68.2	-12.38	PK
Vertical	10520.043	49.45	-9.12	40.33	54	-13.67	AV
Vertical	15780.036	63.60	-7.77	55.83	74	-18.17	PK
Vertical	15780.036	49.04	-7.77	41.27	54	-12.73	AV
Horizontal	4434.198	71.07	-20.73	50.34	68.2	-17.86	PK
Horizontal	4434.198	59.39	-20.73	38.66	54	-15.34	AV
Horizontal	10520.031	63.47	-9.12	54.35	68.2	-13.85	PK
Horizontal	10520.031	49.78	-9.12	40.66	54	-13.34	AV
Horizontal	15780.074	63.30	-7.77	55.53	74	-18.47	PK
Horizontal	15780.074	49.39	-7.77	41.62	54	-12.38	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.099	71.93	-20.42	51.52	74	-22.48	PK
Vertical	4592.099	59.28	-20.42	38.86	54	-15.14	AV
Vertical	10560.073	60.54	-9.06	51.48	68.2	-16.72	PK
Vertical	10560.073	49.76	-9.06	40.70	54	-13.30	AV
Vertical	15840.102	63.78	-7.75	56.03	74	-17.97	PK
Vertical	15840.102	49.28	-7.75	41.53	54	-12.47	AV
Horizontal	4592.017	70.79	-20.42	50.38	74	-23.62	PK
Horizontal	4592.017	59.53	-20.42	39.11	54	-14.89	AV
Horizontal	10560.151	60.70	-9.06	51.64	68.2	-16.56	PK
Horizontal	10560.151	49.05	-9.06	39.99	54	-14.01	AV
Horizontal	15840.007	61.92	-7.75	54.17	74	-19.83	PK
Horizontal	15840.007	49.77	-7.75	42.02	54	-11.98	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.177	73.42	-20.12	53.29	74	-20.71	PK
Vertical	4739.177	59.05	-20.12	38.93	54	-15.07	AV
Vertical	10640.005	63.37	-8.94	54.43	68.2	-13.77	PK
Vertical	10640.005	49.79	-8.94	40.85	54	-13.15	AV
Vertical	15960.096	63.18	-7.71	55.47	74	-18.53	PK
Vertical	15960.096	49.74	-7.71	42.03	54	-11.97	AV
Horizontal	4739.178	72.29	-20.12	52.17	74	-21.83	PK
Horizontal	4739.178	59.97	-20.12	39.85	54	-14.15	AV
Horizontal	10640.097	63.17	-8.94	54.23	68.2	-13.97	PK
Horizontal	10640.097	49.07	-8.94	40.13	54	-13.87	AV
Horizontal	15960.051	60.78	-7.71	53.07	74	-20.93	PK
Horizontal	15960.051	49.93	-7.71	42.22	54	-11.78	AV

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

Test Mode:	TX(5.3G) - 802.11n-HT20
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Polar (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 (5260 MHz)-Above 1G							
Vertical	4434.005	72.71	-20.73	51.97	68.2	-16.23	PK
Vertical	4434.005	59.17	-20.73	38.44	54	-15.56	AV
Vertical	10520.074	62.89	-9.12	53.77	68.2	-14.43	PK
Vertical	10520.074	49.09	-9.12	39.97	54	-14.03	AV
Vertical	15780.102	63.95	-7.77	56.18	74	-17.82	PK
Vertical	15780.102	49.12	-7.77	41.35	54	-12.65	AV
Horizontal	4434.124	71.75	-20.73	51.02	68.2	-17.18	PK
Horizontal	4434.124	59.49	-20.73	38.76	54	-15.24	AV
Horizontal	10520.124	64.57	-9.12	55.45	68.2	-12.75	PK
Horizontal	10520.124	49.19	-9.12	40.07	54	-13.93	AV
Horizontal	15780.177	63.15	-7.77	55.38	74	-18.62	PK
Horizontal	15780.177	49.46	-7.77	41.69	54	-12.31	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.130	70.98	-20.42	50.57	74	-23.43	PK
Vertical	4592.130	59.22	-20.42	38.80	54	-15.20	AV
Vertical	10560.111	61.09	-9.06	52.03	68.2	-16.17	PK
Vertical	10560.111	49.80	-9.06	40.74	54	-13.26	AV
Vertical	15840.073	63.49	-7.75	55.74	74	-18.26	PK
Vertical	15840.073	49.78	-7.75	42.03	54	-11.97	AV
Horizontal	4592.007	72.02	-20.42	51.60	74	-22.40	PK
Horizontal	4592.007	59.38	-20.42	38.96	54	-15.04	AV
Horizontal	10560.186	64.82	-9.06	55.76	68.2	-12.44	PK
Horizontal	10560.186	49.54	-9.06	40.48	54	-13.52	AV
Horizontal	15840.121	64.10	-7.75	56.35	74	-17.65	PK
Horizontal	15840.121	49.05	-7.75	41.30	54	-12.70	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.185	71.05	-20.12	50.93	74	-23.07	PK
Vertical	4739.185	59.52	-20.12	39.40	54	-14.60	AV
Vertical	10640.112	61.40	-8.94	52.46	68.2	-15.74	PK
Vertical	10640.112	49.47	-8.94	40.53	54	-13.47	AV
Vertical	15960.054	61.51	-7.71	53.80	74	-20.20	PK
Vertical	15960.054	49.03	-7.71	41.32	54	-12.68	AV
Horizontal	4739.064	74.64	-20.12	54.51	74	-19.49	PK
Horizontal	4739.064	59.86	-20.12	39.74	54	-14.26	AV
Horizontal	10640.005	63.08	-8.94	54.14	68.2	-14.06	PK
Horizontal	10640.005	49.25	-8.94	40.31	54	-13.69	AV
Horizontal	15960.061	62.45	-7.71	54.74	74	-19.26	PK
Horizontal	15960.061	49.64	-7.71	41.93	54	-12.07	AV

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

Test Mode:	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	4739.185	71.05	-20.12	50.93	74	-23.07	PK
Vertical	4739.185	59.52	-20.12	39.40	54	-14.60	AV
Vertical	10640.112	61.40	-8.94	52.46	68.2	-15.74	PK
Vertical	10640.112	49.47	-8.94	40.53	54	-13.47	AV
Vertical	15960.054	61.51	-7.71	53.80	74	-20.20	PK
Vertical	15960.054	49.03	-7.71	41.32	54	-12.68	AV
Horizontal	4739.064	74.64	-20.12	54.51	74	-19.49	PK
Horizontal	4739.064	59.86	-20.12	39.74	54	-14.26	AV
Horizontal	10640.005	63.08	-8.94	54.14	68.2	-14.06	PK
Horizontal	10640.005	49.25	-8.94	40.31	54	-13.69	AV
Horizontal	15960.061	62.45	-7.71	54.74	74	-19.26	PK
Horizontal	15960.061	49.64	-7.71	41.93	54	-12.07	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.075	70.09	-20.12	49.97	68.2	-18.23	PK
Vertical	4739.075	59.58	-20.12	39.46	54	-14.54	AV
Vertical	10620.144	61.14	-8.97	52.17	68.2	-16.03	PK
Vertical	10620.144	49.47	-8.97	40.50	54	-13.50	AV
Vertical	15930.044	63.85	-7.72	56.13	74	-17.87	PK
Vertical	15930.044	49.38	-7.72	41.66	54	-12.34	AV
Horizontal	4739.040	71.67	-20.12	51.55	68.2	-16.65	PK
Horizontal	4739.040	59.47	-20.12	39.35	54	-14.65	AV
Horizontal	10620.106	62.36	-8.97	53.39	68.2	-14.81	PK
Horizontal	10620.106	49.06	-8.97	40.09	54	-13.91	AV
Horizontal	15930.095	64.82	-7.72	57.10	74	-16.90	PK
Horizontal	15930.095	49.95	-7.72	42.23	54	-11.77	AV

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

Test Mode:	TX(5.3G) - 802.11ac-HT20
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Polar (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 (5260 MHz)-Above 1G							
Vertical	4434.042	70.19	-20.73	49.46	68.2	-18.74	PK
Vertical	4434.042	59.68	-20.73	38.95	54	-15.05	AV
Vertical	10520.075	62.65	-9.12	53.53	68.2	-14.67	PK
Vertical	10520.075	49.25	-9.12	40.13	54	-13.87	AV
Vertical	15780.049	64.89	-7.77	57.12	74	-16.88	PK
Vertical	15780.049	49.61	-7.77	41.84	54	-12.16	AV
Horizontal	4434.132	70.32	-20.73	49.59	68.2	-18.61	PK
Horizontal	4434.132	59.89	-20.73	39.16	54	-14.84	AV
Horizontal	10520.112	61.96	-9.12	52.84	68.2	-15.36	PK
Horizontal	10520.112	49.02	-9.12	39.90	54	-14.10	AV
Horizontal	15780.140	63.59	-7.77	55.82	74	-18.18	PK
Horizontal	15780.140	49.60	-7.77	41.83	54	-12.17	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.013	71.36	-20.42	50.94	74	-23.06	PK
Vertical	4592.013	59.38	-20.42	38.96	54	-15.04	AV
Vertical	10560.153	64.64	-9.06	55.58	68.2	-12.62	PK
Vertical	10560.153	49.38	-9.06	40.32	54	-13.68	AV
Vertical	15840.185	64.10	-7.75	56.35	74	-17.65	PK
Vertical	15840.185	49.78	-7.75	42.03	54	-11.97	AV
Horizontal	4592.126	71.12	-20.42	50.70	74	-23.30	PK
Horizontal	4592.126	59.22	-20.42	38.80	54	-15.20	AV
Horizontal	10560.034	60.23	-9.06	51.17	68.2	-17.03	PK
Horizontal	10560.034	49.52	-9.06	40.46	54	-13.54	AV
Horizontal	15840.051	64.32	-7.75	56.57	74	-17.43	PK
Horizontal	15840.051	49.56	-7.75	41.81	54	-12.19	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.086	74.79	-20.12	54.67	74	-19.33	PK
Vertical	4739.086	59.44	-20.12	39.31	54	-14.69	AV
Vertical	10640.033	63.44	-8.94	54.50	68.2	-13.70	PK
Vertical	10640.033	49.96	-8.94	41.02	54	-12.98	AV
Vertical	15960.127	60.92	-7.71	53.21	74	-20.79	PK
Vertical	15960.127	49.27	-7.71	41.56	54	-12.44	AV
Horizontal	4739.014	70.72	-20.12	50.60	74	-23.40	PK
Horizontal	4739.014	59.00	-20.12	38.88	54	-15.12	AV
Horizontal	10640.139	63.73	-8.94	54.79	68.2	-13.41	PK
Horizontal	10640.139	49.12	-8.94	40.18	54	-13.82	AV
Horizontal	15960.049	63.14	-7.71	55.43	74	-18.57	PK
Horizontal	15960.049	49.15	-7.71	41.44	54	-12.56	AV

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

Test Mode:	TX(5.3G) - 802.11ac-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.129	71.99	-20.73	51.26	68.2	-16.94	PK
Vertical	4434.129	59.91	-20.73	39.18	54	-14.82	AV
Vertical	10540.138	64.27	-9.09	55.18	68.2	-13.02	PK
Vertical	10540.138	49.49	-9.09	40.40	54	-13.60	AV
Vertical	15810.152	63.07	-7.76	55.31	74	-18.69	PK
Vertical	15810.152	49.30	-7.76	41.54	54	-12.46	AV
Horizontal	4434.118	74.58	-20.73	53.85	74	-20.15	PK
Horizontal	4434.118	59.89	-20.73	39.16	54	-14.84	AV
Horizontal	10540.123	63.76	-9.09	54.67	68.2	-13.53	PK
Horizontal	10540.123	49.29	-9.09	40.20	54	-13.80	AV
Horizontal	15810.007	61.09	-7.76	53.33	74	-20.67	PK
Horizontal	15810.007	49.28	-7.76	41.52	54	-12.48	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.091	71.34	-20.12	51.22	68.2	-16.98	PK
Vertical	4739.091	59.05	-20.12	38.93	54	-15.07	AV
Vertical	10620.114	62.14	-8.97	53.17	68.2	-15.03	PK
Vertical	10620.114	49.59	-8.97	40.62	54	-13.38	AV
Vertical	15930.062	63.45	-7.72	55.73	74	-18.27	PK
Vertical	15930.062	49.14	-7.72	41.42	54	-12.58	AV
Horizontal	4739.168	73.38	-20.12	53.26	68.2	-14.94	PK
Horizontal	4739.168	59.11	-20.12	38.99	54	-15.01	AV
Horizontal	10620.146	64.05	-8.97	55.08	68.2	-13.12	PK
Horizontal	10620.146	49.99	-8.97	41.02	54	-12.98	AV
Horizontal	15930.079	63.68	-7.72	55.96	74	-18.04	PK
Horizontal	15930.079	49.59	-7.72	41.87	54	-12.13	AV

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

Test Mode:	TX(5.3G) - 802.11ac-HT80
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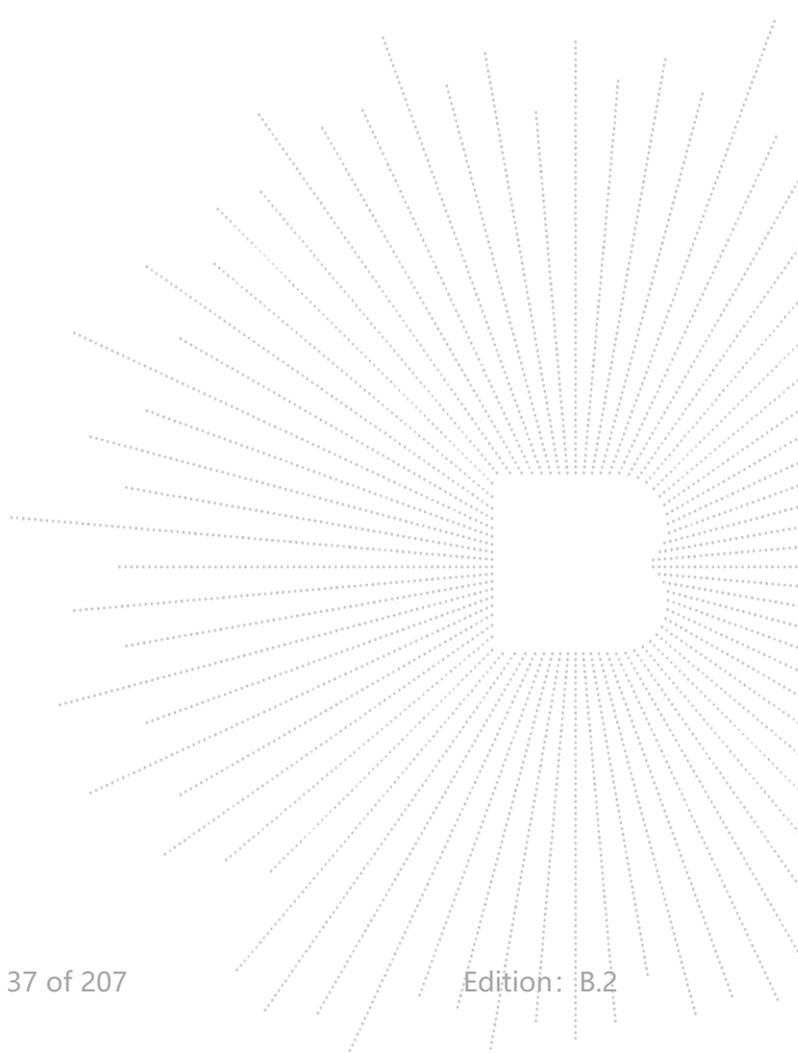
Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
(5290 MHz)-Above 1G							
Vertical	4434.107	72.39	-20.73	51.66	68.2	-16.54	PK
Vertical	4434.107	59.53	-20.73	38.80	54	-15.20	AV
Vertical	10580.128	63.84	-9.03	54.81	68.2	-13.39	PK
Vertical	10580.128	49.75	-9.03	40.72	54	-13.28	AV
Vertical	15870.178	63.14	-7.74	55.40	74	-18.60	PK
Vertical	15870.178	49.78	-7.74	42.04	54	-11.96	AV
Horizontal	4434.053	73.98	-20.73	53.24	68.2	-14.96	PK
Horizontal	4434.053	59.98	-20.73	39.25	54	-14.75	AV
Horizontal	10580.175	64.34	-9.03	55.31	68.2	-12.89	PK
Horizontal	10580.175	49.03	-9.03	40.00	54	-14.00	AV
Horizontal	15870.047	64.72	-7.74	56.98	74	-17.02	PK
Horizontal	15870.047	49.54	-7.74	41.80	54	-12.20	AV

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

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

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

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



Test Mode:	TX(5.6G) - 802.11a
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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 (5500 MHz)-Above 1G							
Vertical	4434.044	71.02	-20.73	50.28	68.2	-17.92	PK
Vertical	4434.044	59.87	-20.73	39.14	54	-14.86	AV
Vertical	11000.147	64.17	-8.40	55.77	68.2	-12.43	PK
Vertical	11000.147	49.99	-8.40	41.59	54	-12.41	AV
Vertical	16500.065	64.49	-6.09	58.40	74	-15.60	PK
Vertical	16500.065	49.32	-6.09	43.23	54	-10.77	AV
Horizontal	4434.054	71.22	-20.73	50.48	68.2	-17.72	PK
Horizontal	4434.054	59.27	-20.73	38.54	54	-15.46	AV
Horizontal	11000.034	62.73	-8.40	54.33	68.2	-13.87	PK
Horizontal	11000.034	49.86	-8.40	41.46	54	-12.54	AV
Horizontal	16500.114	63.67	-6.09	57.58	74	-16.42	PK
Horizontal	16500.114	49.01	-6.09	42.92	54	-11.08	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.047	70.36	-20.42	49.94	74	-24.06	PK
Vertical	4592.047	59.18	-20.42	38.76	54	-15.24	AV
Vertical	11160.196	61.49	-8.53	52.96	68.2	-15.24	PK
Vertical	11160.196	49.61	-8.53	41.08	54	-12.92	AV
Vertical	16740.122	60.35	-5.31	55.04	74	-18.96	PK
Vertical	16740.122	49.91	-5.31	44.60	54	-9.40	AV
Horizontal	4592.015	72.87	-20.42	52.45	74	-21.55	PK
Horizontal	4592.015	59.25	-20.42	38.83	54	-15.17	AV
Horizontal	11160.070	64.90	-8.53	56.37	68.2	-11.83	PK
Horizontal	11160.070	49.40	-8.53	40.87	54	-13.13	AV
Horizontal	16740.025	63.47	-5.31	58.16	74	-15.84	PK
Horizontal	16740.025	49.11	-5.31	43.80	54	-10.20	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.196	70.12	-20.12	50.00	74	-24.00	PK
Vertical	4739.196	59.13	-20.12	39.01	54	-14.99	AV
Vertical	11400.144	64.57	-8.72	55.85	68.2	-12.35	PK
Vertical	11400.144	49.10	-8.72	40.38	54	-13.62	AV
Vertical	17100.058	61.09	-3.92	57.17	74	-16.83	PK
Vertical	17100.058	49.30	-3.92	45.38	54	-8.62	AV
Horizontal	4739.092	71.11	-20.12	50.99	74	-23.01	PK
Horizontal	4739.092	59.55	-20.12	39.43	54	-14.57	AV
Horizontal	11400.030	60.70	-8.72	51.98	68.2	-16.22	PK
Horizontal	11400.030	49.65	-8.72	40.93	54	-13.07	AV
Horizontal	17100.100	61.24	-3.92	57.32	74	-16.68	PK
Horizontal	17100.100	49.55	-3.92	45.63	54	-8.37	AV

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

Test Mode:	TX(5.6G) - 802.11n-HT20
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Polar (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 (5500 MHz)-Above 1G							
Vertical	4434.118	72.16	-20.73	51.43	68.2	-16.77	PK
Vertical	4434.118	59.25	-20.73	38.52	54	-15.48	AV
Vertical	11000.130	64.46	-8.40	56.06	68.2	-12.14	PK
Vertical	11000.130	49.37	-8.40	40.97	54	-13.03	AV
Vertical	16500.060	64.24	-6.09	58.15	74	-15.85	PK
Vertical	16500.060	49.42	-6.09	43.33	54	-10.67	AV
Horizontal	4434.164	70.12	-20.73	49.39	68.2	-18.81	PK
Horizontal	4434.164	59.43	-20.73	38.69	54	-15.31	AV
Horizontal	11000.125	64.81	-8.40	56.41	68.2	-11.79	PK
Horizontal	11000.125	49.94	-8.40	41.54	54	-12.46	AV
Horizontal	16500.031	60.80	-6.09	54.71	74	-19.29	PK
Horizontal	16500.031	49.26	-6.09	43.17	54	-10.83	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.093	72.95	-20.42	52.53	74	-21.47	PK
Vertical	4592.093	59.35	-20.42	38.93	54	-15.07	AV
Vertical	11160.013	60.68	-8.53	52.15	68.2	-16.05	PK
Vertical	11160.013	49.32	-8.53	40.79	54	-13.21	AV
Vertical	16740.180	60.96	-5.31	55.65	74	-18.35	PK
Vertical	16740.180	49.94	-5.31	44.63	54	-9.37	AV
Horizontal	4592.100	70.98	-20.42	50.57	74	-23.43	PK
Horizontal	4592.100	59.83	-20.42	39.42	54	-14.58	AV
Horizontal	11160.095	61.15	-8.53	52.62	68.2	-15.58	PK
Horizontal	11160.095	49.11	-8.53	40.58	54	-13.42	AV
Horizontal	16740.138	64.89	-5.31	59.58	74	-14.42	PK
Horizontal	16740.138	49.11	-5.31	43.80	54	-10.20	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.122	72.36	-20.12	52.24	74	-21.76	PK
Vertical	4739.122	59.66	-20.12	39.54	54	-14.46	AV
Vertical	11400.117	60.98	-8.72	52.26	68.2	-15.94	PK
Vertical	11400.117	49.40	-8.72	40.68	54	-13.32	AV
Vertical	17100.189	64.43	-3.92	60.51	74	-13.49	PK
Vertical	17100.189	49.89	-3.92	45.97	54	-8.03	AV
Horizontal	4739.124	70.32	-20.12	50.20	74	-23.80	PK
Horizontal	4739.124	59.05	-20.12	38.93	54	-15.07	AV
Horizontal	11400.012	61.30	-8.72	52.58	68.2	-15.62	PK
Horizontal	11400.012	49.90	-8.72	41.18	54	-12.82	AV
Horizontal	17100.197	62.75	-3.92	58.83	74	-15.17	PK
Horizontal	17100.197	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 - Preamp Factor = Level.

Test Mode:	TX(5.6G) - 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 (5510 MHz)-Above 1G							
Vertical	4434.008	63.31	-20.73	42.58	68.2	-25.62	PK
Vertical	4434.008	43.28	-20.73	22.54	54	-31.46	AV
Vertical	11020.079	62.14	-8.42	53.72	68.2	-14.48	PK
Vertical	11020.079	43.56	-8.42	35.14	54	-18.86	AV
Vertical	16530.131	62.38	-5.99	56.39	74	-17.61	PK
Vertical	16530.131	43.83	-5.99	37.84	54	-16.16	AV
Horizontal	4434.066	62.33	-20.73	41.60	74	-32.40	PK
Horizontal	4434.066	43.90	-20.73	23.16	54	-30.84	AV
Horizontal	11020.010	53.99	-8.42	45.57	68.2	-22.63	PK
Horizontal	11020.010	41.92	-8.42	33.50	54	-20.50	AV
Horizontal	16530.147	54.95	-5.99	48.96	74	-25.04	PK
Horizontal	16530.147	40.56	-5.99	34.57	54	-19.43	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.034	63.37	-20.42	42.95	74	-31.05	PK
Vertical	4592.034	43.76	-20.42	23.35	54	-30.65	AV
Vertical	11100.056	60.01	-8.40	51.61	68.2	-16.59	PK
Vertical	11100.056	43.52	-8.40	35.12	54	-18.88	AV
Vertical	16650.146	62.57	-5.60	56.97	74	-17.03	PK
Vertical	16650.146	43.42	-5.60	37.82	54	-16.18	AV
Horizontal	4592.027	60.49	-20.42	40.07	74	-33.93	PK
Horizontal	4592.027	43.34	-20.42	22.93	54	-31.07	AV
Horizontal	11100.060	50.68	-8.40	42.28	68.2	-25.92	PK
Horizontal	11100.060	43.46	-8.40	35.06	54	-18.94	AV
Horizontal	16650.005	53.87	-5.60	48.27	74	-25.73	PK
Horizontal	16650.005	40.18	-5.60	34.58	54	-19.42	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.076	63.29	-20.12	43.17	68.2	-25.03	PK
Vertical	4739.076	43.21	-20.12	23.09	54	-30.91	AV
Vertical	11340.060	61.34	-8.67	52.67	68.2	-15.53	PK
Vertical	11340.060	43.15	-8.67	34.48	54	-19.52	AV
Vertical	17010.019	64.11	-4.41	59.70	74	-14.30	PK
Vertical	17010.019	43.10	-4.41	38.69	54	-15.31	AV
Horizontal	4739.018	64.76	-20.12	44.64	68.2	-23.56	PK
Horizontal	4739.018	43.59	-20.12	23.47	54	-30.53	AV
Horizontal	11340.063	54.36	-8.67	45.69	68.2	-22.51	PK
Horizontal	11340.063	42.20	-8.67	33.53	54	-20.47	AV
Horizontal	17010.015	50.74	-4.41	46.33	74	-27.67	PK
Horizontal	17010.015	41.11	-4.41	36.70	54	-17.30	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:	TX(5.6G) - 802.11ac-HT20
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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 (5500 MHz)-Above 1G							
Vertical	4434.064	74.56	-20.73	53.83	68.2	-14.37	PK
Vertical	4434.064	59.35	-20.73	38.62	54	-15.38	AV
Vertical	11000.136	62.07	-8.40	53.67	68.2	-14.53	PK
Vertical	11000.136	49.75	-8.40	41.35	54	-12.65	AV
Vertical	16500.060	62.67	-6.09	56.58	74	-17.42	PK
Vertical	16500.060	49.55	-6.09	43.46	54	-10.54	AV
Horizontal	4434.023	71.48	-20.73	50.75	68.2	-17.45	PK
Horizontal	4434.023	59.32	-20.73	38.59	54	-15.41	AV
Horizontal	11000.107	64.55	-8.40	56.15	68.2	-12.05	PK
Horizontal	11000.107	49.59	-8.40	41.19	54	-12.81	AV
Horizontal	16500.096	61.63	-6.09	55.54	74	-18.46	PK
Horizontal	16500.096	49.85	-6.09	43.76	54	-10.24	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.069	74.64	-20.42	54.23	74	-19.77	PK
Vertical	4592.069	59.72	-20.42	39.30	54	-14.70	AV
Vertical	11160.189	62.20	-8.53	53.67	68.2	-14.53	PK
Vertical	11160.189	49.06	-8.53	40.53	54	-13.47	AV
Vertical	16740.182	64.47	-5.31	59.16	74	-14.84	PK
Vertical	16740.182	49.41	-5.31	44.10	54	-9.90	AV
Horizontal	4592.177	73.70	-20.42	53.29	74	-20.71	PK
Horizontal	4592.177	59.48	-20.42	39.07	54	-14.93	AV
Horizontal	11160.014	60.80	-8.53	52.27	68.2	-15.93	PK
Horizontal	11160.014	49.08	-8.53	40.55	54	-13.45	AV
Horizontal	16740.081	61.33	-5.31	56.02	74	-17.98	PK
Horizontal	16740.081	49.70	-5.31	44.39	54	-9.61	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.107	71.28	-20.12	51.15	74	-22.85	PK
Vertical	4739.107	59.70	-20.12	39.57	54	-14.43	AV
Vertical	11400.033	64.87	-8.72	56.15	68.2	-12.05	PK
Vertical	11400.033	49.90	-8.72	41.18	54	-12.82	AV
Vertical	17100.009	61.45	-3.92	57.53	74	-16.47	PK
Vertical	17100.009	49.38	-3.92	45.46	54	-8.54	AV
Horizontal	4739.024	73.73	-20.12	53.60	74	-20.40	PK
Horizontal	4739.024	59.55	-20.12	39.42	54	-14.58	AV
Horizontal	11400.020	64.37	-8.72	55.65	68.2	-12.55	PK
Horizontal	11400.020	49.57	-8.72	40.85	54	-13.15	AV
Horizontal	17100.179	62.35	-3.92	58.43	74	-15.57	PK
Horizontal	17100.179	49.03	-3.92	45.11	54	-8.89	AV

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

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

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

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

Test Mode:	TX(5.6G) - 802.11ac-HT40
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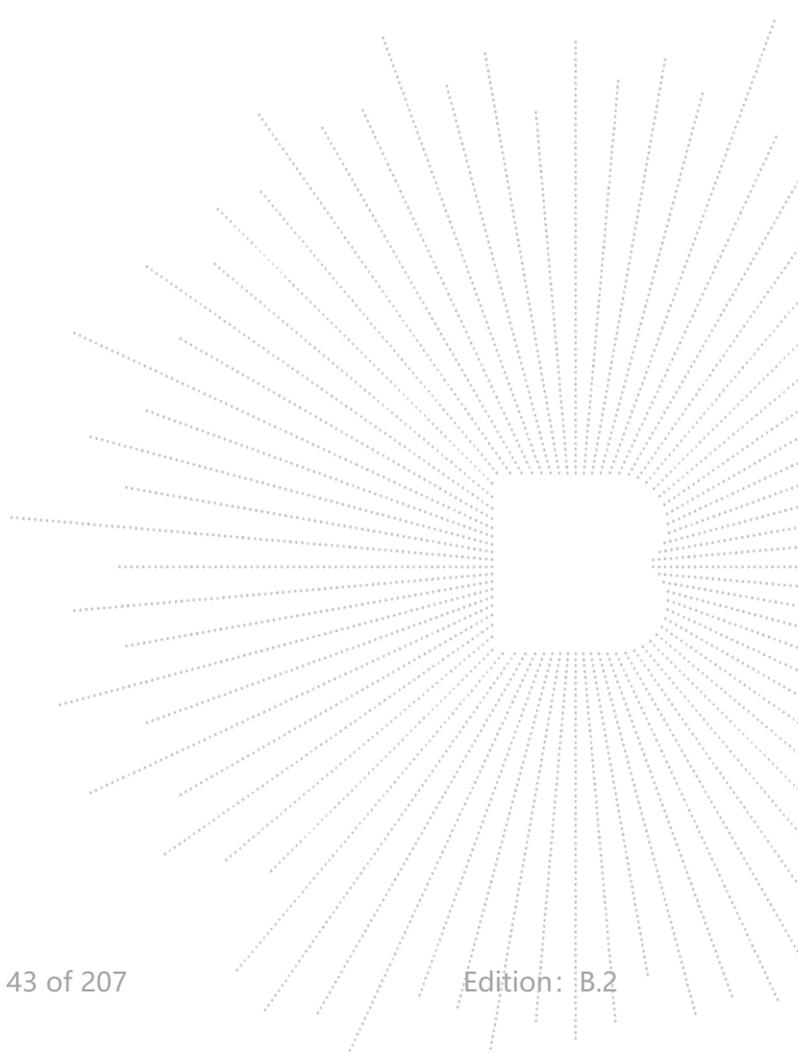
Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.184	60.56	-20.73	39.83	68.2	-28.37	PK
Vertical	4434.184	43.40	-20.73	22.67	54	-31.33	AV
Vertical	11020.130	63.54	-8.42	55.12	68.2	-13.08	PK
Vertical	11020.130	43.29	-8.42	34.87	54	-19.13	AV
Vertical	16530.123	63.34	-5.99	57.35	74	-16.65	PK
Vertical	16530.123	43.32	-5.99	37.33	54	-16.67	AV
Horizontal	4434.001	61.07	-20.73	40.33	74	-33.67	PK
Horizontal	4434.001	43.60	-20.73	22.86	54	-31.14	AV
Horizontal	11020.069	50.87	-8.42	42.45	68.2	-25.75	PK
Horizontal	11020.069	40.05	-8.42	31.63	54	-22.37	AV
Horizontal	16530.003	54.86	-5.99	48.87	74	-25.13	PK
Horizontal	16530.003	40.56	-5.99	34.57	54	-19.43	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.014	60.76	-20.42	40.35	74	-33.65	PK
Vertical	4592.014	43.72	-20.42	23.30	54	-30.70	AV
Vertical	11100.023	61.25	-8.40	52.85	68.2	-15.35	PK
Vertical	11100.023	43.51	-8.40	35.11	54	-18.89	AV
Vertical	16650.172	62.72	-5.60	57.12	74	-16.88	PK
Vertical	16650.172	43.44	-5.60	37.84	54	-16.16	AV
Horizontal	4592.098	64.22	-20.42	43.80	74	-30.20	PK
Horizontal	4592.098	43.05	-20.42	22.63	54	-31.37	AV
Horizontal	11100.045	53.47	-8.40	45.07	68.2	-23.13	PK
Horizontal	11100.045	41.79	-8.40	33.39	54	-20.61	AV
Horizontal	16650.085	51.43	-5.60	45.83	74	-28.17	PK
Horizontal	16650.085	44.44	-5.60	38.84	54	-15.16	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.005	60.85	-20.12	40.73	68.2	-27.47	PK
Vertical	4739.005	43.36	-20.12	23.24	54	-30.76	AV
Vertical	11340.157	64.61	-8.67	55.94	68.2	-12.26	PK
Vertical	11340.157	43.73	-8.67	35.06	54	-18.94	AV
Vertical	17010.108	60.52	-4.41	56.11	74	-17.89	PK
Vertical	17010.108	43.29	-4.41	38.88	54	-15.12	AV
Horizontal	4739.008	60.37	-20.12	40.25	68.2	-27.95	PK
Horizontal	4739.008	43.35	-20.12	23.23	54	-30.77	AV
Horizontal	11340.116	52.55	-8.67	43.88	68.2	-24.32	PK
Horizontal	11340.116	40.63	-8.67	31.96	54	-22.04	AV
Horizontal	17010.168	52.18	-4.41	47.77	74	-26.23	PK
Horizontal	17010.168	42.43	-4.41	38.02	54	-15.98	AV

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

Test Mode:	TX(5.6G) - 802.11ac-HT80
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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
(5530 MHz)-Above 1G							
Vertical	4434.058	64.04	-20.73	43.31	68.2	-24.89	PK
Vertical	4434.058	43.54	-20.73	22.80	54	-31.20	AV
Vertical	11060.164	62.02	-8.45	53.57	68.2	-14.63	PK
Vertical	11060.164	43.83	-8.45	35.38	54	-18.62	AV
Vertical	16590.075	63.55	-5.79	57.76	74	-16.24	PK
Vertical	16590.075	43.96	-5.79	38.17	54	-15.83	AV
Horizontal	4434.187	61.66	-20.73	40.92	68.2	-27.28	PK
Horizontal	4434.187	43.83	-20.73	23.09	54	-30.91	AV
Horizontal	11060.070	50.20	-8.45	41.75	68.2	-26.45	PK
Horizontal	11060.070	41.31	-8.45	32.86	54	-21.14	AV
Horizontal	16590.010	51.61	-5.79	45.82	74	-28.18	PK
Horizontal	16590.010	43.58	-5.79	37.79	54	-16.21	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.



Test Mode:	TX(5.8G) - 802.11a
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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 (5745 MHz)-Above 1G							
Vertical	4679.072	73.16	-20.24	52.92	74	-21.08	PK
Vertical	4679.072	59.24	-20.24	38.99	54	-15.01	AV
Vertical	11490.139	64.84	-8.79	56.05	68.2	-12.15	PK
Vertical	11490.139	49.13	-8.79	40.34	54	-13.66	AV
Vertical	17235.046	59.57	-3.18	56.39	68.2	-11.81	PK
Vertical	17235.046	44.70	-3.18	41.52	54	-12.48	AV
Horizontal	4679.068	72.60	-20.73	51.87	74	-22.13	PK
Horizontal	4679.068	59.34	-20.73	38.61	54	-15.39	AV
Horizontal	11490.034	62.42	-8.79	53.63	68.2	-14.57	PK
Horizontal	11490.034	49.10	-8.79	40.31	54	-13.69	AV
Horizontal	17235.180	59.83	-3.18	56.65	68.2	-11.55	PK
Horizontal	17235.180	44.71	-3.18	41.53	54	-12.47	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.039	72.27	-20.42	51.85	74	-22.15	PK
Vertical	4592.039	59.97	-20.42	39.56	54	-14.44	AV
Vertical	11570.144	62.17	-8.86	53.31	68.2	-14.89	PK
Vertical	11570.144	49.22	-8.86	40.36	54	-13.64	AV
Vertical	17355.106	57.08	-2.52	54.56	68.2	-13.64	PK
Vertical	17355.106	44.50	-2.52	41.98	54	-12.02	AV
Horizontal	4592.109	71.76	-20.42	51.35	74	-22.65	PK
Horizontal	4592.109	59.02	-20.42	38.61	54	-15.39	AV
Horizontal	11570.073	61.81	-8.86	52.95	68.2	-15.25	PK
Horizontal	11570.073	49.58	-8.86	40.72	54	-13.28	AV
Horizontal	17355.043	56.69	-2.52	54.17	68.2	-14.03	PK
Horizontal	17355.043	44.04	-2.52	41.52	54	-12.48	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.089	71.47	-18.93	52.54	68.2	-15.66	PK
Vertical	6039.089	59.09	-18.93	40.16	54	-13.84	AV
Vertical	11650.018	61.92	-8.92	53.00	74	-21.00	PK
Vertical	11650.018	49.95	-8.92	41.03	54	-12.97	AV
Vertical	17475.016	59.68	-1.86	57.82	68.2	-10.38	PK
Vertical	17475.016	44.14	-1.86	42.28	54	-11.72	AV
Horizontal	6039.198	71.38	-18.93	52.45	68.2	-15.75	PK
Horizontal	6039.198	59.13	-18.93	40.19	54	-13.81	AV
Horizontal	11650.081	61.78	-8.92	52.86	74	-21.14	PK
Horizontal	11650.081	49.42	-8.92	40.50	54	-13.50	AV
Horizontal	17475.119	55.61	-1.86	53.75	68.2	-14.45	PK
Horizontal	17475.119	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.

Test Mode:	TX(5.8G) - 802.11n-HT20
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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 (5745 MHz)-Above 1G							
Vertical	4679.121	72.52	-20.24	52.28	74	-21.72	PK
Vertical	4679.121	59.35	-20.24	39.11	54	-14.89	AV
Vertical	11490.152	62.86	-8.79	54.07	68.2	-14.13	PK
Vertical	11490.152	49.59	-8.79	40.80	54	-13.20	AV
Vertical	17235.077	57.21	-3.18	54.03	68.2	-14.17	PK
Vertical	17235.077	44.69	-3.18	41.51	54	-12.49	AV
Horizontal	4679.084	70.62	-20.24	50.38	74	-23.62	PK
Horizontal	4679.084	59.51	-20.24	39.27	54	-14.73	AV
Horizontal	11490.045	60.76	-8.79	51.97	68.2	-16.23	PK
Horizontal	11490.045	49.77	-8.79	40.98	54	-13.02	AV
Horizontal	17235.033	56.32	-3.18	53.14	68.2	-15.06	PK
Horizontal	17235.033	44.26	-3.18	41.08	54	-12.92	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.172	71.69	-20.42	51.27	74	-22.73	PK
Vertical	4592.172	59.93	-20.42	39.52	54	-14.48	AV
Vertical	11570.022	63.82	-8.86	54.96	68.2	-13.24	PK
Vertical	11570.022	49.16	-8.86	40.30	54	-13.70	AV
Vertical	17355.052	59.61	-2.52	57.09	68.2	-11.11	PK
Vertical	17355.052	44.73	-2.52	42.21	54	-11.79	AV
Horizontal	4592.047	71.95	-20.42	51.53	74	-22.47	PK
Horizontal	4592.047	59.66	-20.42	39.24	54	-14.76	AV
Horizontal	11570.117	64.43	-8.86	55.57	68.2	-12.63	PK
Horizontal	11570.117	49.11	-8.86	40.25	54	-13.75	AV
Horizontal	17355.168	56.78	-2.52	54.26	68.2	-13.94	PK
Horizontal	17355.168	44.75	-2.52	42.23	54	-11.77	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.177	72.58	-18.93	53.65	68.2	-14.55	PK
Vertical	6039.177	59.14	-18.93	40.21	54	-13.79	AV
Vertical	11650.009	62.87	-8.92	53.95	74	-20.05	PK
Vertical	11650.009	49.12	-8.92	40.20	54	-13.80	AV
Vertical	17475.135	56.56	-1.86	54.70	68.2	-13.50	PK
Vertical	17475.135	44.98	-1.86	43.12	54	-10.88	AV
Horizontal	6039.011	73.88	-18.93	54.95	68.2	-13.25	PK
Horizontal	6039.011	59.46	-18.93	40.52	54	-13.48	AV
Horizontal	11650.179	60.66	-8.92	51.74	74	-22.26	PK
Horizontal	11650.179	49.67	-8.92	40.75	54	-13.25	AV
Horizontal	17475.057	57.35	-1.86	55.49	68.2	-12.71	PK
Horizontal	17475.057	44.54	-1.86	42.68	54	-11.32	AV

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

Test Mode:	TX(5.8G) - 802.11n-HT40
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Polar (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 (5755 MHz)-Above 1G							
Vertical	4679.120	72.22	-20.24	51.98	74	-22.02	PK
Vertical	4679.120	59.67	-20.24	39.43	54	-14.57	AV
Vertical	11510.137	60.26	-8.81	51.45	74	-22.55	PK
Vertical	11510.137	49.15	-8.81	40.34	54	-13.66	AV
Vertical	17265.116	57.92	-3.01	54.91	68.2	-13.29	PK
Vertical	17265.116	44.45	-3.01	41.44	54	-12.56	AV
Horizontal	4679.072	71.83	-20.24	51.59	74	-22.41	PK
Horizontal	4679.072	59.36	-20.24	39.12	54	-14.88	AV
Horizontal	11510.017	63.47	-8.81	54.66	74	-19.34	PK
Horizontal	11510.017	49.75	-8.81	40.94	54	-13.06	AV
Horizontal	17265.101	56.16	-3.01	53.15	68.2	-15.05	PK
Horizontal	17265.101	44.81	-3.01	41.80	54	-12.20	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.075	71.17	-18.93	52.23	68.2	-15.97	PK
Vertical	6039.075	59.85	-18.93	40.92	54	-13.08	AV
Vertical	11590.099	63.79	-8.87	54.92	74	-19.08	PK
Vertical	11590.099	49.34	-8.87	40.47	54	-13.53	AV
Vertical	17385.022	55.68	-2.35	53.33	68.2	-14.87	PK
Vertical	17385.022	44.24	-2.35	41.89	54	-12.11	AV
Horizontal	6039.016	70.49	-18.93	51.56	68.2	-16.64	PK
Horizontal	6039.016	59.92	-18.93	40.99	54	-13.01	AV
Horizontal	11590.025	63.68	-8.87	54.81	74	-19.19	PK
Horizontal	11590.025	49.60	-8.87	40.73	54	-13.27	AV
Horizontal	17385.132	58.95	-2.35	56.60	68.2	-11.60	PK
Horizontal	17385.132	44.05	-2.35	41.70	54	-12.30	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:	TX(5.8G) - 802.11ac-HT20
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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 (5745 MHz)-Above 1G							
Vertical	4679.184	72.83	-20.24	52.59	74	-21.41	PK
Vertical	4679.184	59.20	-20.24	38.96	54	-15.04	AV
Vertical	11490.200	62.26	-8.79	53.47	68.2	-14.73	PK
Vertical	11490.200	49.61	-8.79	40.82	54	-13.18	AV
Vertical	17235.192	57.32	-3.18	54.14	68.2	-14.06	PK
Vertical	17235.192	44.06	-3.18	40.88	54	-13.12	AV
Horizontal	4679.179	71.27	-20.24	51.03	74	-22.97	PK
Horizontal	4679.179	59.54	-20.24	39.30	54	-14.70	AV
Horizontal	11490.162	62.71	-8.79	53.92	68.2	-14.28	PK
Horizontal	11490.162	49.96	-8.79	41.17	54	-12.83	AV
Horizontal	17235.008	57.00	-3.18	53.82	68.2	-14.38	PK
Horizontal	17235.008	44.13	-3.18	40.95	54	-13.05	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.098	71.71	-20.42	51.30	74	-22.70	PK
Vertical	4592.098	59.53	-20.42	39.11	54	-14.89	AV
Vertical	11570.149	61.41	-8.86	52.55	68.2	-15.65	PK
Vertical	11570.149	49.24	-8.86	40.38	54	-13.62	AV
Vertical	17355.094	58.24	-2.52	55.72	68.2	-12.48	PK
Vertical	17355.094	44.63	-2.52	42.11	54	-11.89	AV
Horizontal	4592.161	73.09	-20.42	52.68	74	-21.32	PK
Horizontal	4592.161	59.50	-20.42	39.08	54	-14.92	AV
Horizontal	11570.173	63.79	-8.86	54.93	68.2	-13.27	PK
Horizontal	11570.173	49.83	-8.86	40.97	54	-13.03	AV
Horizontal	17355.061	55.90	-2.52	53.38	68.2	-14.82	PK
Horizontal	17355.061	44.22	-2.52	41.70	54	-12.30	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.044	70.66	-18.93	51.73	68.2	-16.47	PK
Vertical	6039.044	59.28	-18.93	40.34	54	-13.66	AV
Vertical	11650.182	61.35	-8.92	52.43	74	-21.57	PK
Vertical	11650.182	49.70	-8.92	40.78	54	-13.22	AV
Vertical	17475.110	58.36	-1.86	56.50	68.2	-11.70	PK
Vertical	17475.110	44.54	-1.86	42.68	54	-11.32	AV
Horizontal	6039.027	70.30	-18.93	51.37	68.2	-16.83	PK
Horizontal	6039.027	59.64	-18.93	40.71	54	-13.29	AV
Horizontal	11650.027	64.78	-8.92	55.86	74	-18.14	PK
Horizontal	11650.027	49.45	-8.92	40.53	54	-13.47	AV
Horizontal	17475.100	58.08	-1.86	56.22	68.2	-11.98	PK
Horizontal	17475.100	44.86	-1.86	43.00	54	-11.00	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11ac-HT40
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.058	73.52	-20.24	53.27	74	-20.73	PK
Vertical	4679.058	59.06	-20.24	38.82	54	-15.18	AV
Vertical	11510.109	61.52	-8.81	52.71	74	-21.29	PK
Vertical	11510.109	49.22	-8.81	40.41	54	-13.59	AV
Vertical	17265.129	57.74	-3.01	54.73	68.2	-13.47	PK
Vertical	17265.129	44.49	-3.01	41.48	54	-12.52	AV
Horizontal	4679.152	70.31	-20.24	50.07	74	-23.93	PK
Horizontal	4679.152	59.32	-20.24	39.08	54	-14.92	AV
Horizontal	11510.111	60.11	-8.81	51.30	74	-22.70	PK
Horizontal	11510.111	49.93	-8.81	41.12	54	-12.88	AV
Horizontal	17265.190	58.27	-3.01	55.26	68.2	-12.94	PK
Horizontal	17265.190	44.30	-3.01	41.29	54	-12.71	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.091	74.41	-18.93	55.48	68.2	-12.72	PK
Vertical	6039.091	59.33	-18.93	40.40	54	-13.60	AV
Vertical	11590.088	63.05	-8.87	54.18	74	-19.82	PK
Vertical	11590.088	49.96	-8.87	41.09	54	-12.91	AV
Vertical	17385.106	56.85	-2.35	54.50	68.2	-13.70	PK
Vertical	17385.106	44.01	-2.35	41.66	54	-12.34	AV
Horizontal	6039.131	72.53	-18.93	53.60	68.2	-14.60	PK
Horizontal	6039.131	59.76	-18.93	40.82	54	-13.18	AV
Horizontal	11590.086	61.15	-8.87	52.28	74	-21.72	PK
Horizontal	11590.086	49.04	-8.87	40.17	54	-13.83	AV
Horizontal	17385.146	58.87	-2.35	56.52	68.2	-11.68	PK
Horizontal	17385.146	44.47	-2.35	42.12	54	-11.88	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11ac-HT80
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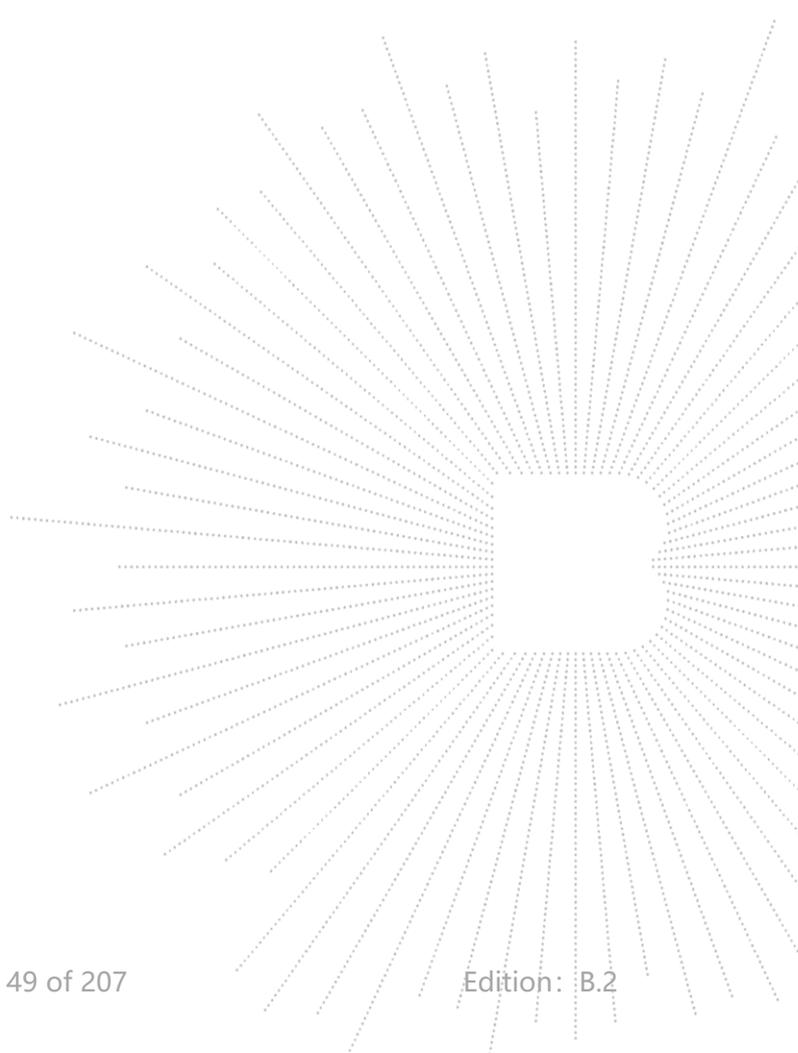
Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
(5775 MHz)-Above 1G							
Vertical	4679.118	74.01	-20.24	53.76	74	-20.24	PK
Vertical	4679.118	59.87	-20.24	39.63	54	-14.37	AV
Vertical	11550.014	61.97	-8.84	53.13	74	-20.87	PK
Vertical	11550.014	49.42	-8.84	40.58	54	-13.42	AV
Vertical	17325.056	55.49	-2.68	52.81	68.2	-15.39	PK
Vertical	17325.056	44.53	-2.68	41.85	54	-12.15	AV
Horizontal	4679.067	70.31	-20.24	50.07	74	-23.93	PK
Horizontal	4679.067	59.61	-20.24	39.36	54	-14.64	AV
Horizontal	11550.167	63.56	-8.84	54.72	74	-19.28	PK
Horizontal	11550.167	49.48	-8.84	40.64	54	-13.36	AV
Horizontal	17325.168	59.39	-2.68	56.71	68.2	-11.49	PK
Horizontal	17325.168	44.00	-2.68	41.32	54	-12.68	AV

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

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

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

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



8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

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.

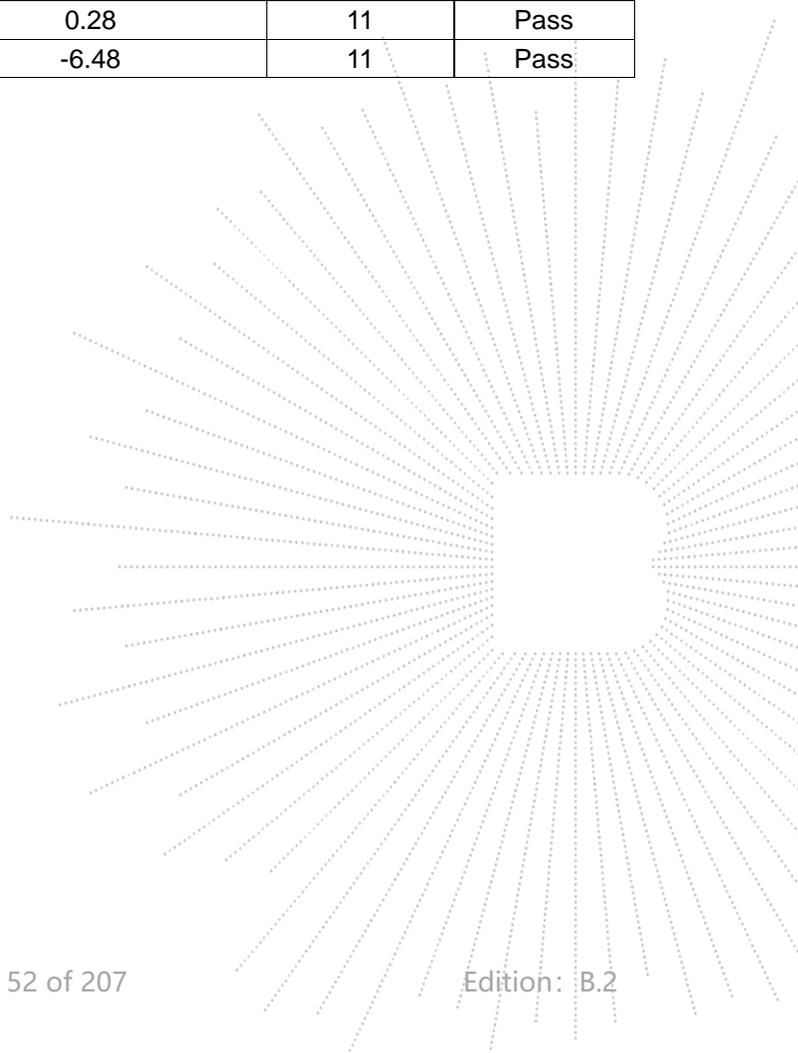
8.4 EUT Operating Conditions

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 3.7V
Test Mode:	(5180-5240MHz)		

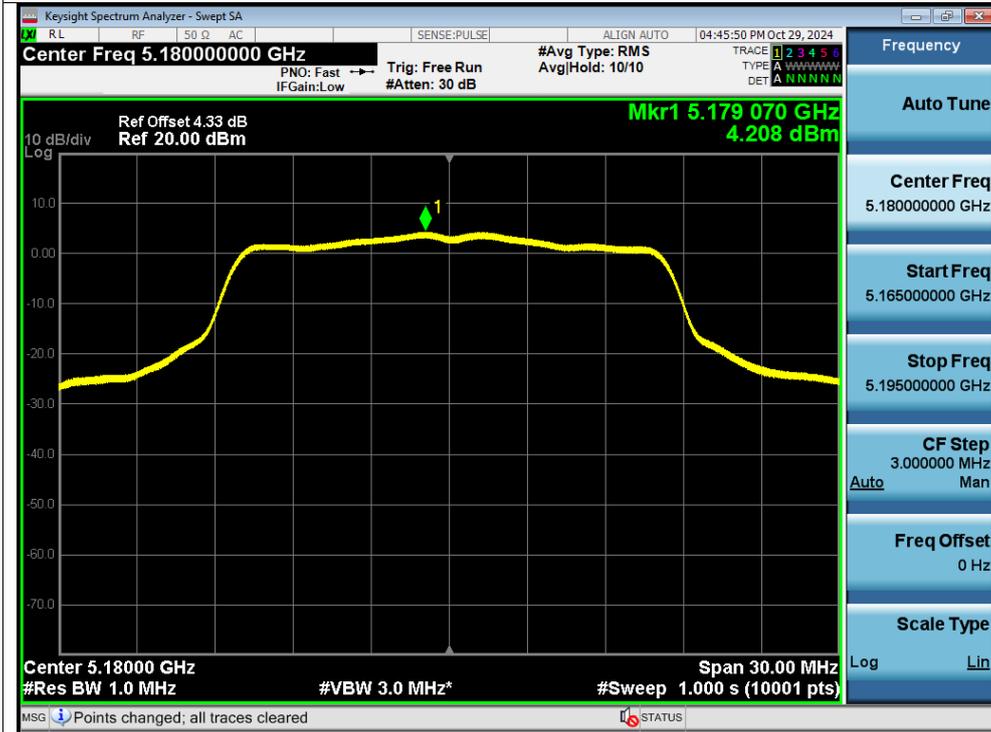
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	4.21	11	Pass
NVNT	a	5200	6.38	11	Pass
NVNT	a	5240	6.76	11	Pass
NVNT	n20	5180	2.95	11	Pass
NVNT	n20	5200	4.33	11	Pass
NVNT	n20	5240	4.92	11	Pass
NVNT	n40	5190	-2.29	11	Pass
NVNT	n40	5230	3.56	11	Pass
NVNT	ac20	5180	4.68	11	Pass
NVNT	ac20	5200	4.41	11	Pass
NVNT	ac20	5240	4.97	11	Pass
NVNT	ac40	5190	-1.67	11	Pass
NVNT	ac40	5230	0.28	11	Pass
NVNT	ac80	5210	-6.48	11	Pass



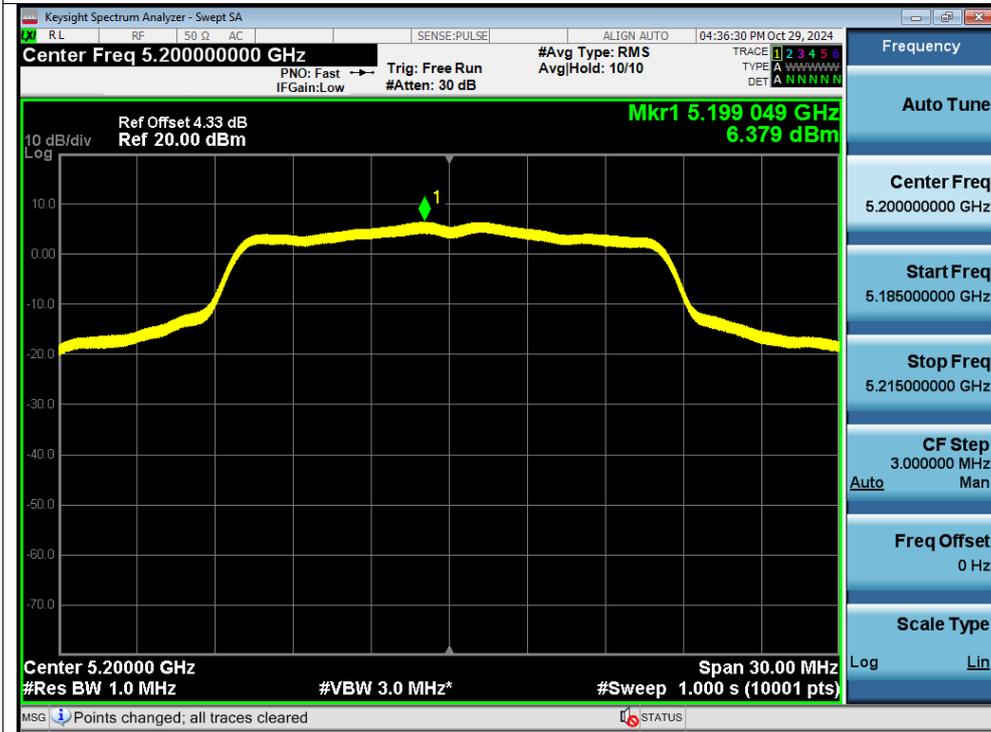


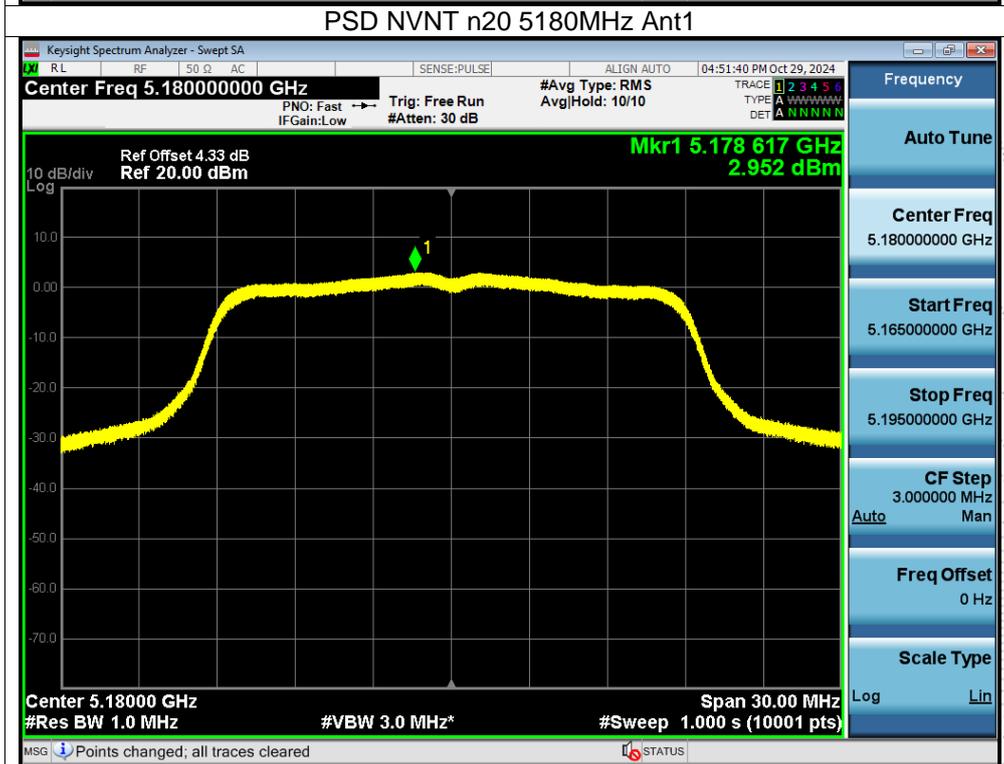
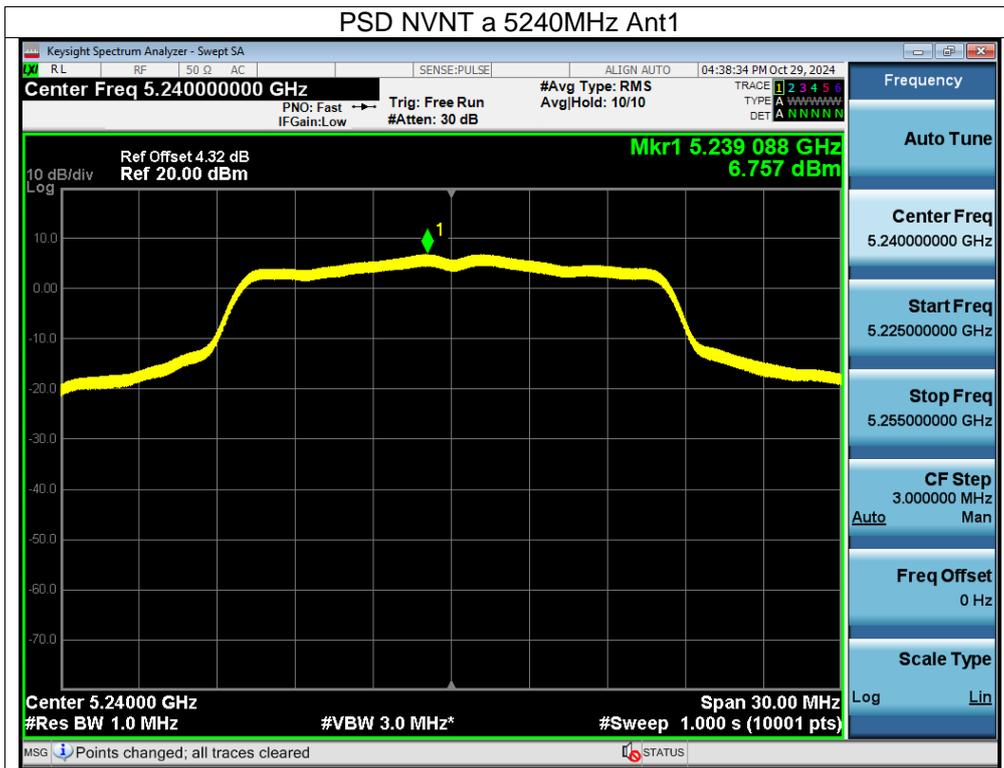
Test Graphs

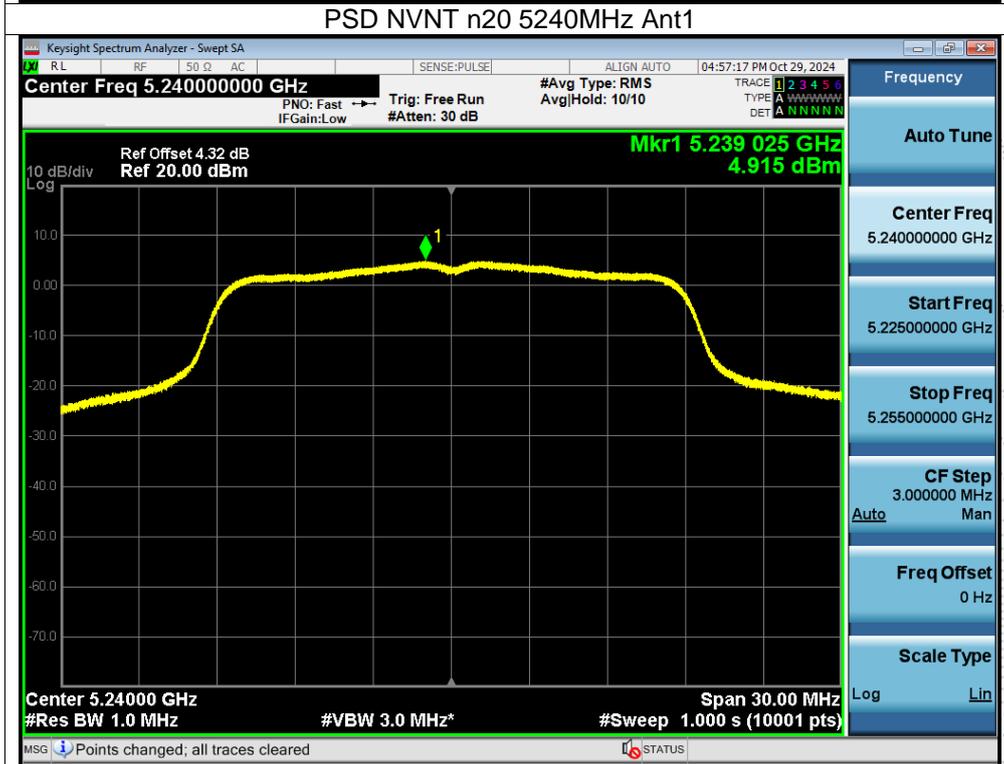
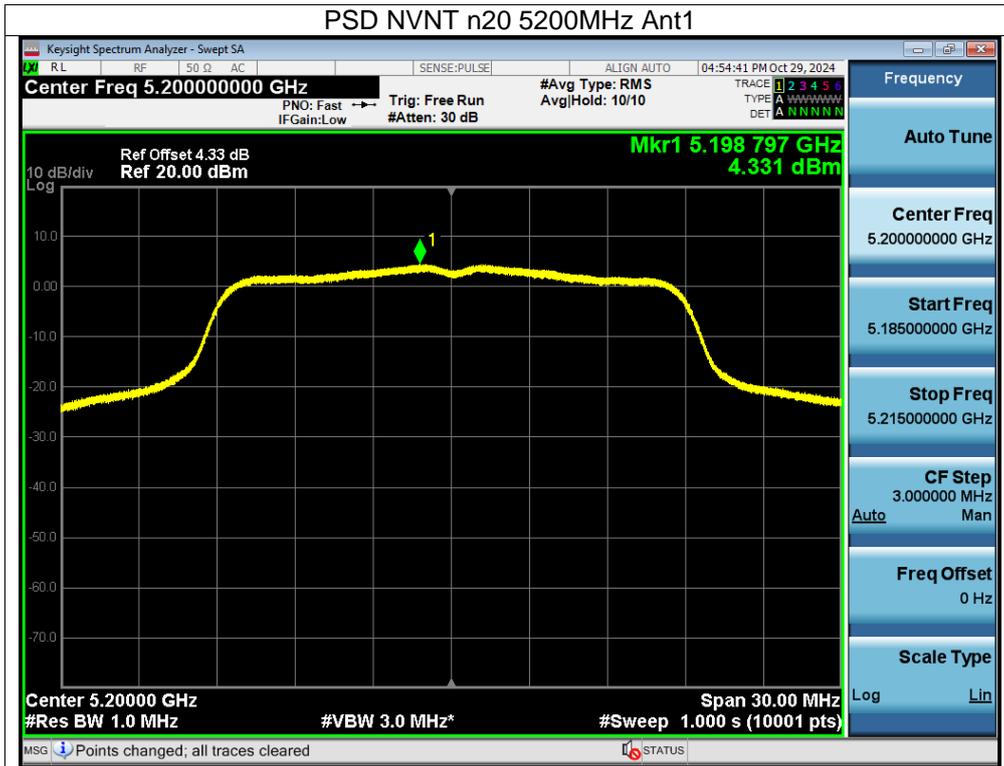
PSD NVNT a 5180MHz Ant1

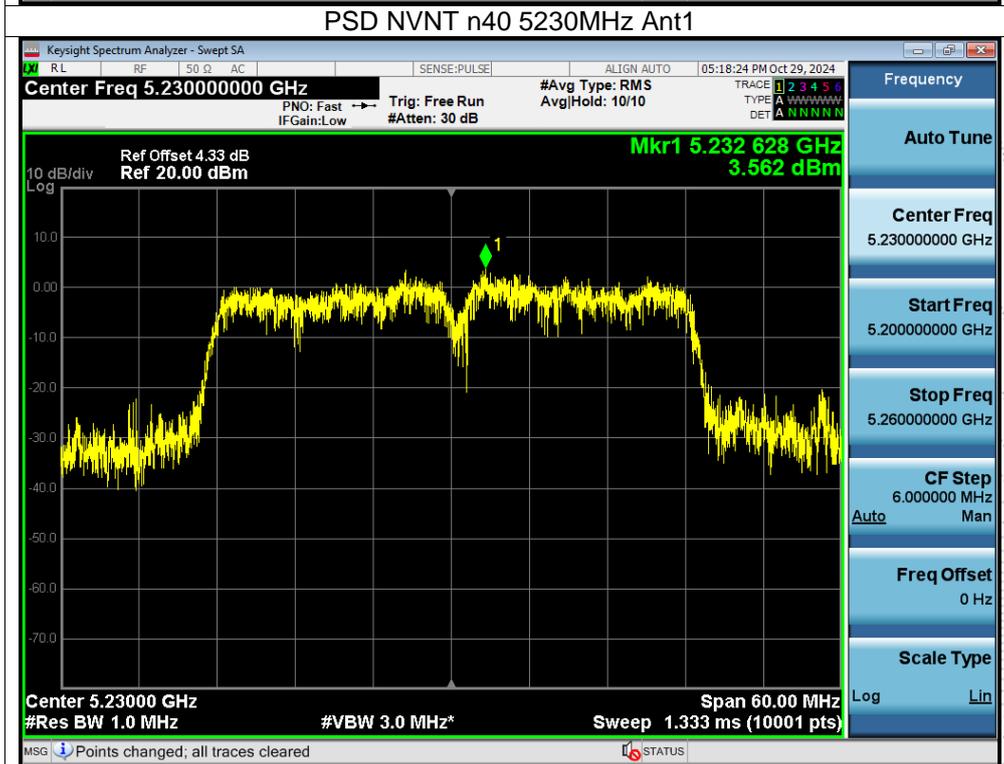
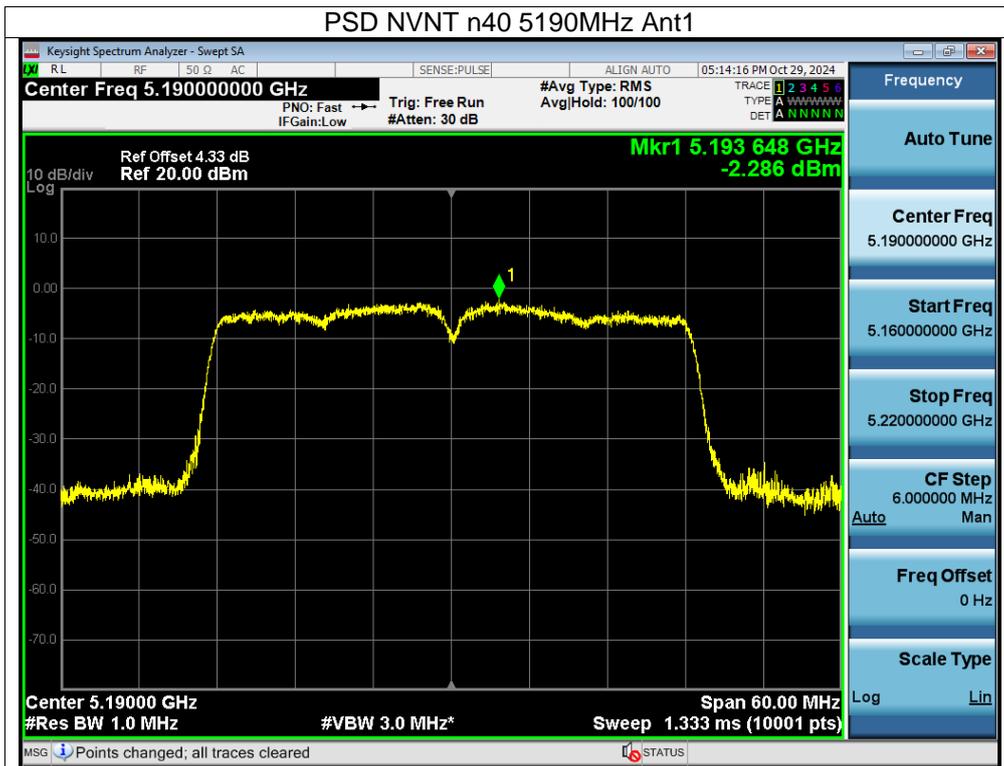


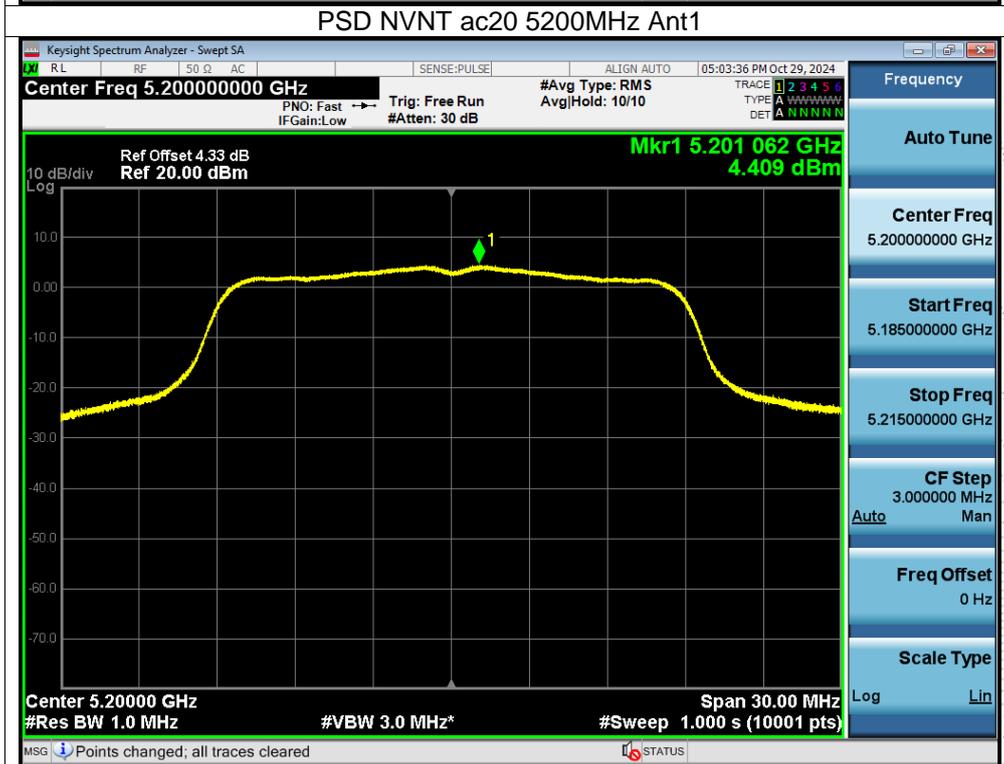
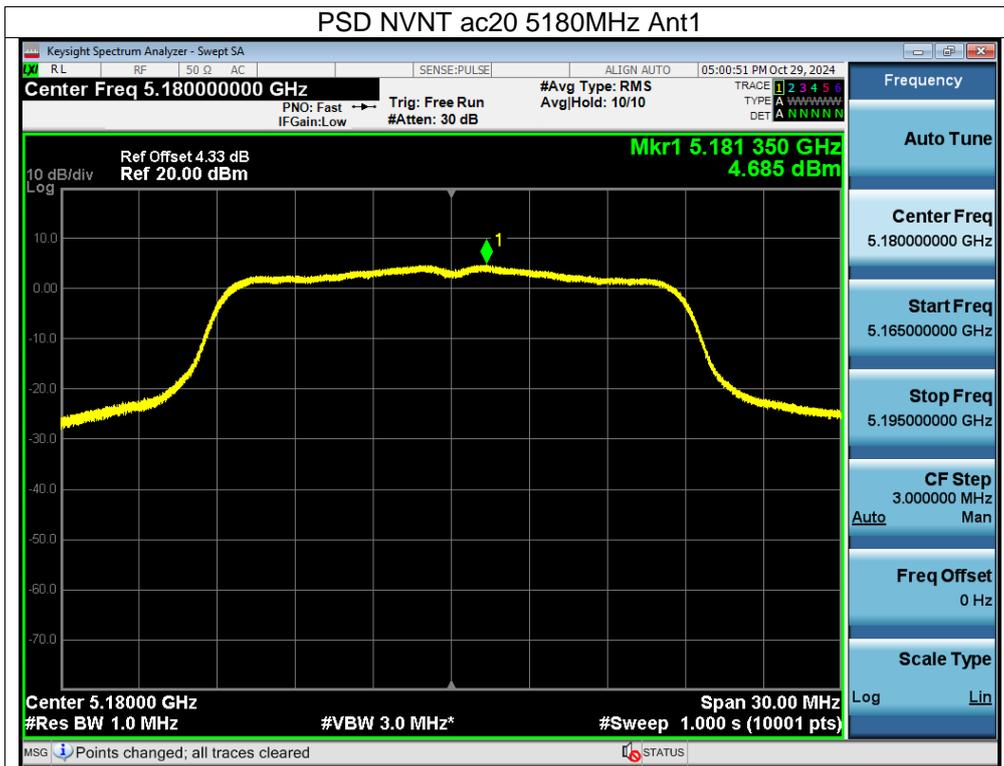
PSD NVNT a 5200MHz Ant1

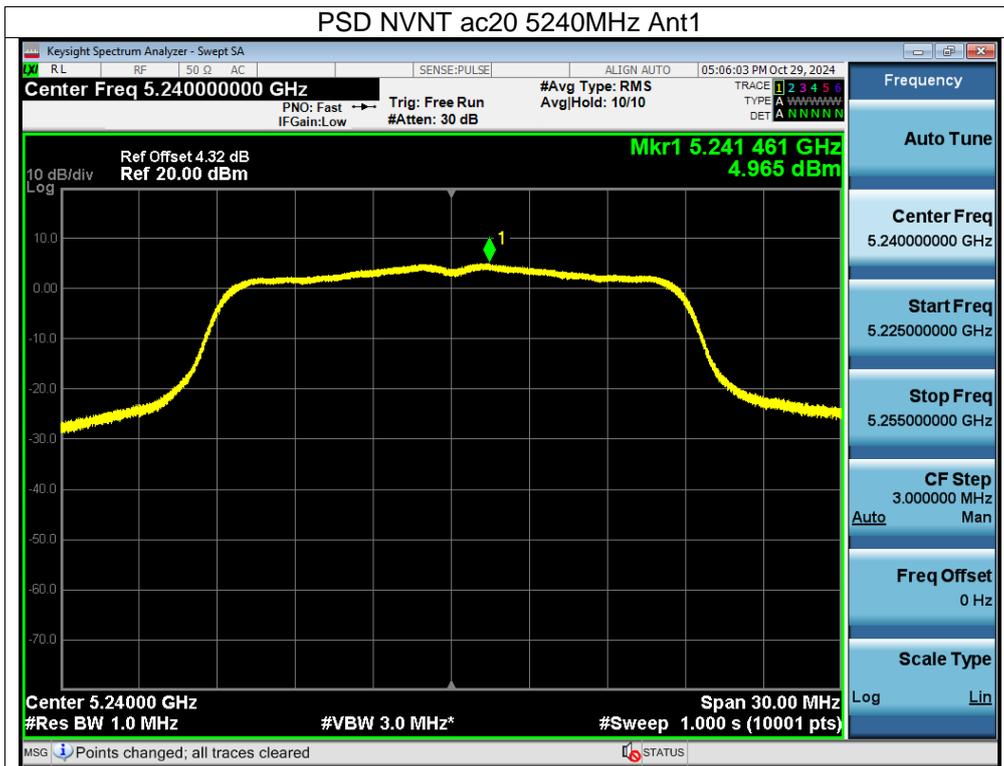


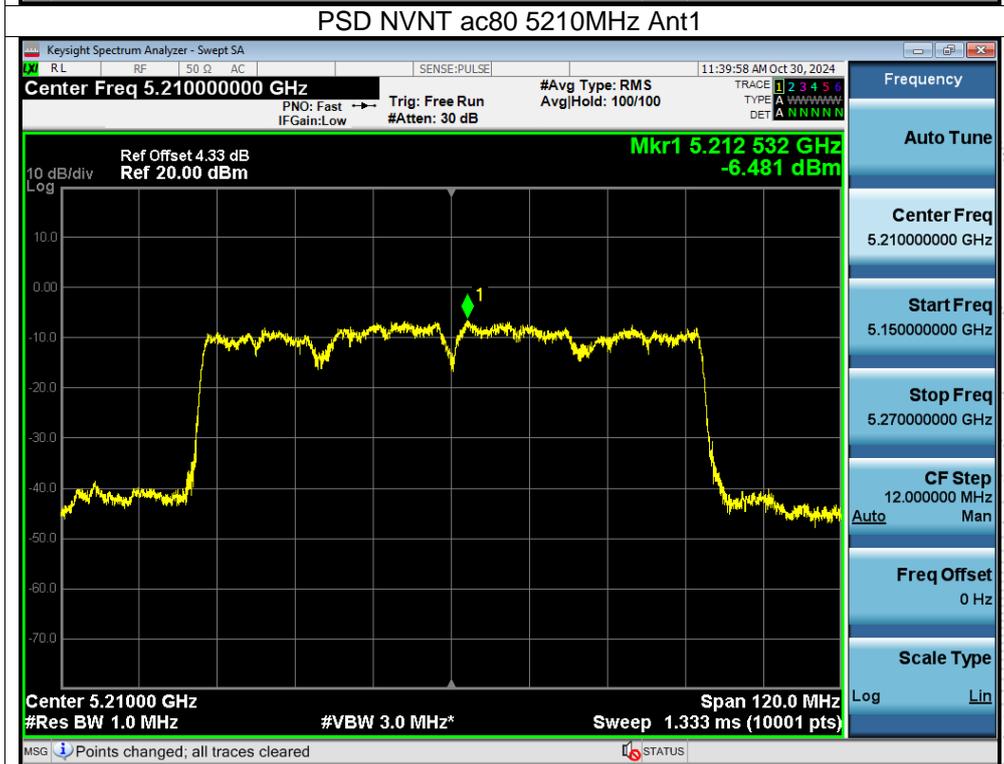
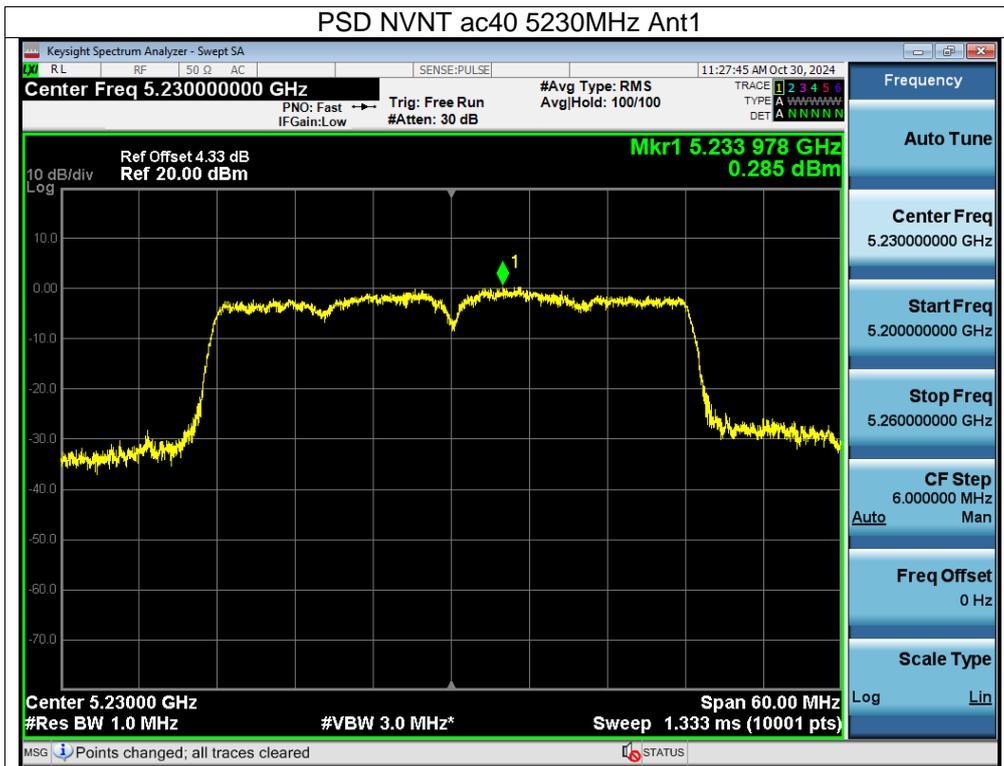












Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.7V
Test Mode:	(5260-5320MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	6.57	11	Pass
NVNT	a	5280	6.56	11	Pass
NVNT	a	5320	4.04	11	Pass
NVNT	n20	5260	4.92	11	Pass
NVNT	n20	5280	4.95	11	Pass
NVNT	n20	5320	3.29	11	Pass
NVNT	n40	5270	0.59	11	Pass
NVNT	n40	5310	-0.83	11	Pass
NVNT	ac20	5260	5.09	11	Pass
NVNT	ac20	5280	4.68	11	Pass
NVNT	ac20	5320	5.67	11	Pass
NVNT	ac40	5270	0.53	11	Pass
NVNT	ac40	5310	-1.26	11	Pass
NVNT	ac80	5290	-5.86	11	Pass

