

TEST REPORT

Report No.: BCTC2403916799-4E

Applicant: Radxa Computer (Shenzhen) Co.,Ltd.

Product Name: Radxa ZERO 3W

Test Model: Radxa ZERO 3W D1E0H1W15

Tested Date: 2024-03-22 to 2024-04-11

Issued Date: 2024-04-11

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2BC6T-ZERO3W

Product Name: Radxa ZERO 3W

Trademark: N/A

Model/Type Reference: Radxa ZERO 3W D1E0H1W15
Radxa ZERO 3W D1E0H0W15, Radxa ZERO 3W D2E0H0W15,
Radxa ZERO 3W D4E0H0W15, Radxa ZERO 3W D8E0H0W15,
Radxa ZERO 3W D2E0H1W15, Radxa ZERO 3W D4E0H1W15,
Radxa ZERO 3W D8E0H1W15, Radxa ZERO 3W D1E8H0W15,
Radxa ZERO 3W D2E16H0W15, Radxa ZERO 3W D4E32H0W15,
Radxa ZERO 3W D8E64H0W15, Radxa ZERO 3W D1E8H1W15,
Radxa ZERO 3W D2E16H1W15, Radxa ZERO 3W D4E32H1W15,
Radxa ZERO 3W D8E64H1W15

Prepared For: Radxa Computer (Shenzhen) Co.,Ltd.

Address: 1602, Smart Valley, tiezai Road, Gongle community, Xixiang, Baoan, Shenzhen, China

Manufacturer: Radxa Computer (Shenzhen) Co.,Ltd.

Address: 1602, Smart Valley, tiezai Road, Gongle community, Xixiang, Baoan, Shenzhen, China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

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Sample Received Date: 2024-03-22

Sample Tested Date: 2024-03-22 to 2024-04-11

Issue Date: 2024-04-11

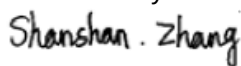
Report No.: BCTC2403916799-4E

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

Test Results: PASS

Remark: This is WIFI-5GHz band radio test report.

Tested by:



Shanshan. Zhang / Project Handler

Approved by:



Zero Zhou/Reviewer

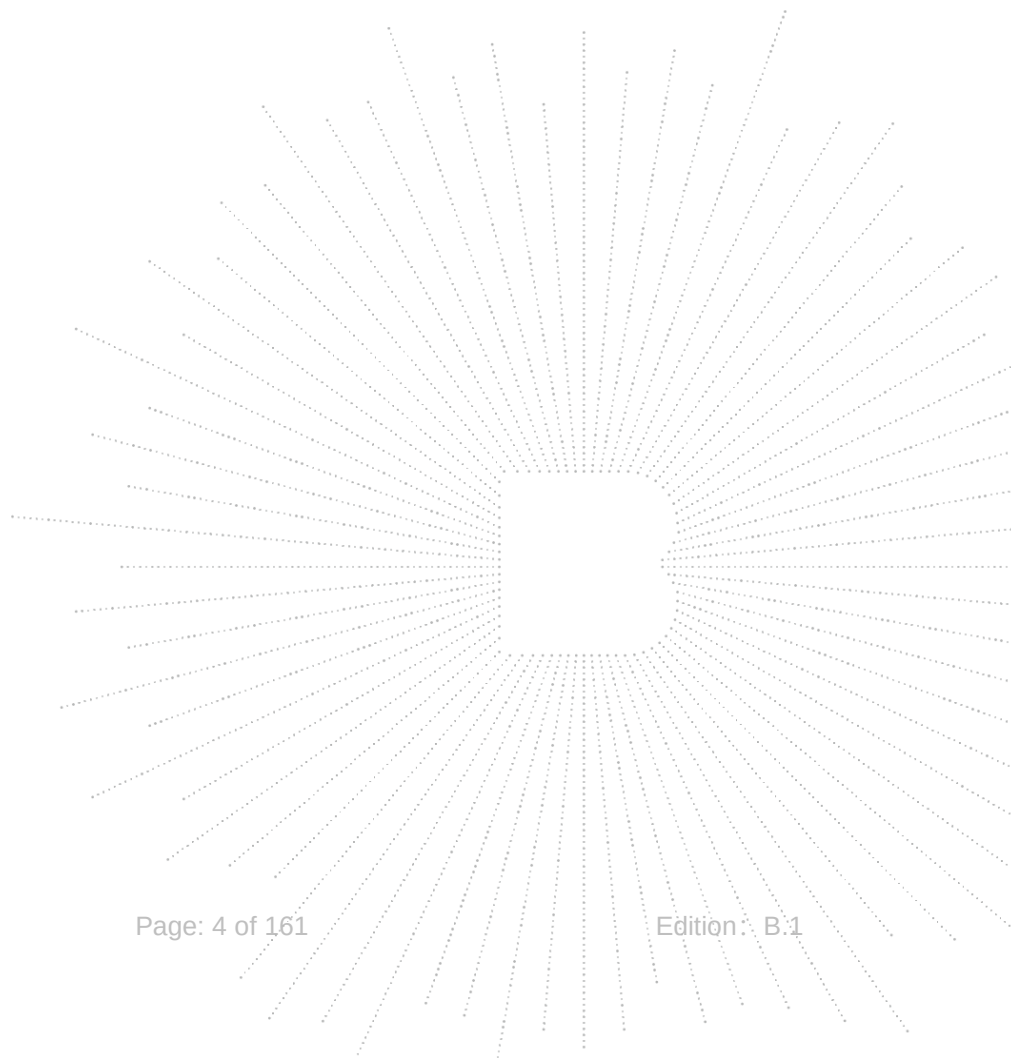
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2403916799-4E	2024-04-11	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

1	Test Parameter	Clause No.	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(12) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

Note: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

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(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
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

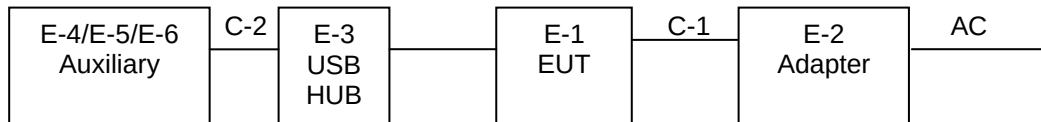
4.1 Product Information

Model/Type reference:	Radxa ZERO 3W D1E0H1W15 Radxa ZERO 3W D1E0H0W15, Radxa ZERO 3W D2E0H0W15, Radxa ZERO 3W D4E0H0W15, Radxa ZERO 3W D8E0H0W15, Radxa ZERO 3W D2E0H1W15, Radxa ZERO 3W D4E0H1W15, Radxa ZERO 3W D8E0H1W15, Radxa ZERO 3W D1E8H0W15, Radxa ZERO 3W D2E16H0W15, Radxa ZERO 3W D4E32H0W15, Radxa ZERO 3W D8E64H0W15, Radxa ZERO 3W D1E8H1W15, Radxa ZERO 3W D2E16H1W15, Radxa ZERO 3W D4E32H1W15, Radxa ZERO 3W D8E64H1W15
Model differences:	All the models are the same circuit and RF module, except model names and product memory.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported:	802.11a/n/ac/ax(20MHz channel bandwidth) 802.11n/ac/ax(40MHz channel bandwidth) 802.11ac/ax(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20)/ac/ax20; 5190-5230MHz for 802.11n(HT40)/ac/ax40; 5210MHz for 802.11 ac/ax80 5745-5825 MHz for 802.11a/n(HT20)/ac/ax20; 5755-5795 MHz for 802.11a/n(HT40)/ac/ax40; 5775MHz for 802.11 ac/ax80
Data Rate:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40): MCS0-MCS15; 802.11ac(VHT20): MCS0-MCS8 802.11ac(VHT40/VHT80): MCS0-MCS9 802.11ax (HE 20/HE 40/HE 80): MCS0-MCS11
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac OFDMA with BPSK / BPSK_DCM /QPSK /QPSK_DCM /QAM16 /QAM16_DCM /QAM64 /QAM256 /QAM1024 for 802.11ax
Number Of Channel:	4 channels for 802.11a/n/ax20 in the 5180-5240MHz band ; 2 channels for 802.11 n/ax40 in the 5190-5230MHz band ; 1 channels for 802.11 ac/ax80 in the 5210MHz band 5 channels for 802.11a/n/ax20 in the 5745-5825MHz band ; 2 channels for 802.11 n/ax40 in the 5755-5795MHz band ; 1 channels for 802.11 ac/ax80 in the 5775MHz band
Antenna installation:	Chip antenna
Antenna Gain:	5.1GHzWIFI: 2.3 dBi, 5.8GHzWIFI: 2.6 dBi
Ratings:	DC 5V from adapter
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.

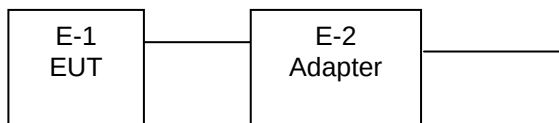
4.2 Test Setup Configuration

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

Conducted Emission and Radiated Spurious Emission(Below 1GHz):



Radiated Spurious Emission(Above 1GHz):



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Radxa ZERO 3W	N/A	Radxa ZERO 3W D1E0H1W15	Ref. the Section 4.1	EUT
E-2	ADAPTER	Hoco.	N18	N/A	Auxiliary
E-3	USB HUB	N/A	N/A	N/A	Auxiliary
E-4	keyboard	Logitech	1641MG01D LZ8	N/A	Auxiliary
E-5	Mouse	Logitech	M-U0026	N/A	Auxiliary
E-6	Display	AOC	24G2	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.8M	DC cable unshielded
C-2	N/A	N/A	1.0M	DC cable unshielded

Notes:

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

4.4 Channel List

Frequency and Channel list for 802.11a/n /ac/ax (5180-5240MHz):

802.11a/n/ac/ax(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	40	5200	48	5240

802.11n/ac/ax(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	-	-	-	-

802.11ac/ax (80MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-	-	-

Frequency and Channel list for 802.11a/n /ac/ax (5745-5825MHz):

802.11a/n/ac/ax(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac/ax(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-	-	-

802.11ac/ax (80MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
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/ax 20 CH36/ CH40/ CH 48 802.11a /n/ ac/ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac/ax40 CH38/ CH 46 802.11n/ ac/ax40 CH 151 / CH 159
Mode 3	802.11 ac/ax80 CH 42/CH 155
Mode 4	Link Mode

Note: 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

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

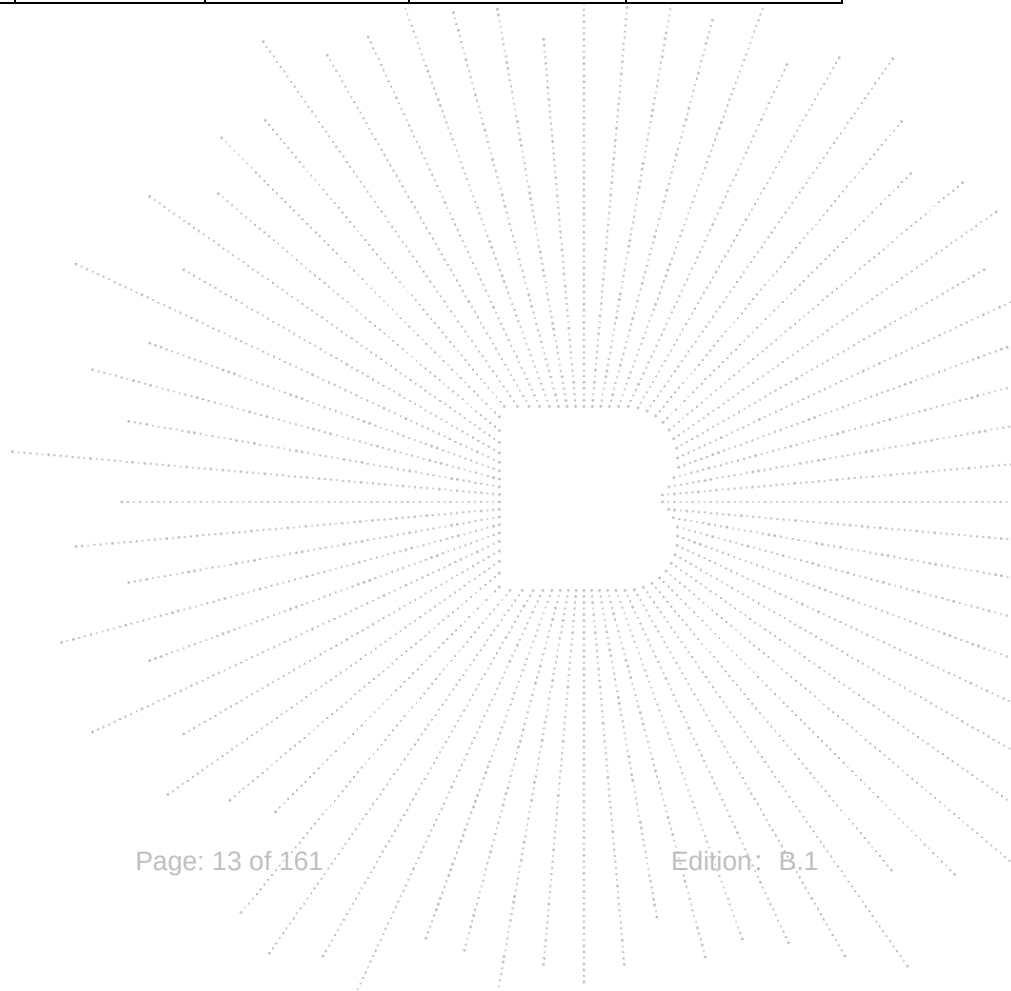
ISED CAB identifier: CN0017

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

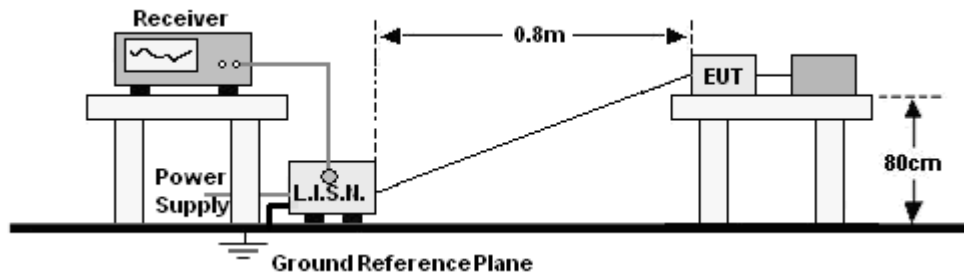
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz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

Radiated Emissions Test (966 Chamber02)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	SKET	966 Room	966	Nov. 02. 2021	Nov. 01.2024
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRI7	100010	Nov. 13. 2023	Nov. 12, 2024
Amplifier	SKET	LNPA-30M01 G-30	SK2021082004	Nov. 13. 2023	Nov. 12, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9168	1323	Feb. 28, 2024	Feb. 27, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G1 8G-45dB	SK202104090 1	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 Antenn(18GH z-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.

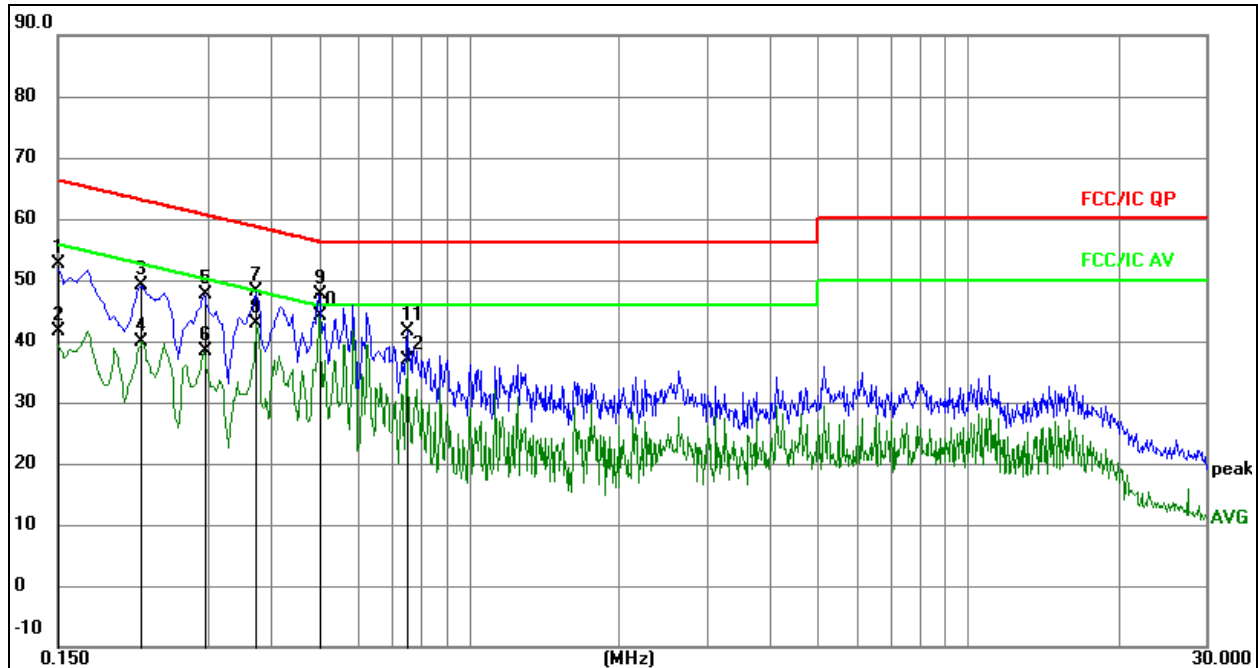
6.4 EUT operating Conditions

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.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

6.5 Test Result

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

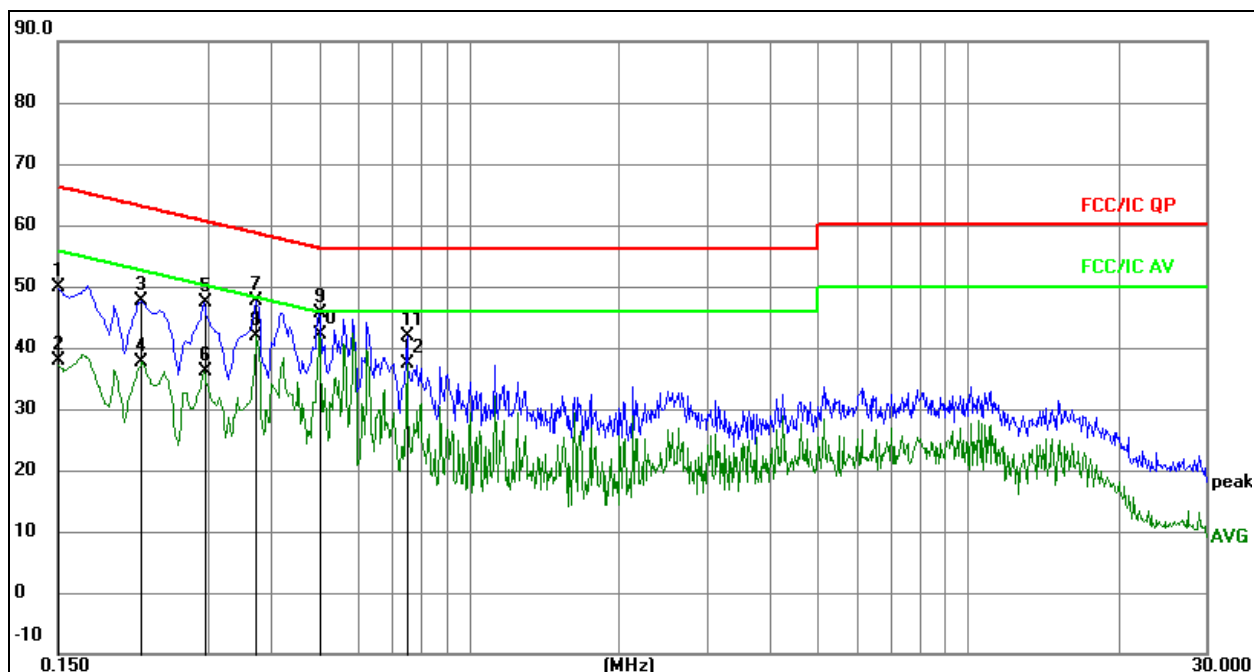


Remark:

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.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	32.87	19.73	52.60	66.00	-13.40	QP
2		0.1500	21.95	19.73	41.68	56.00	-14.32	AVG
3		0.2208	29.29	19.83	49.12	62.79	-13.67	QP
4		0.2208	20.01	19.83	39.84	52.79	-12.95	AVG
5		0.2940	27.80	19.83	47.63	60.41	-12.78	QP
6		0.2940	18.63	19.83	38.46	50.41	-11.95	AVG
7		0.3731	28.33	19.84	48.17	58.43	-10.26	QP
8		0.3731	23.11	19.84	42.95	48.43	-5.48	AVG
9		0.4994	27.89	19.84	47.73	56.01	-8.28	QP
10	*	0.4994	24.19	19.84	44.03	46.01	-1.98	AVG
11		0.7508	21.80	19.86	41.66	56.00	-14.34	QP
12		0.7508	16.95	19.86	36.81	46.00	-9.19	AVG

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



Remark:

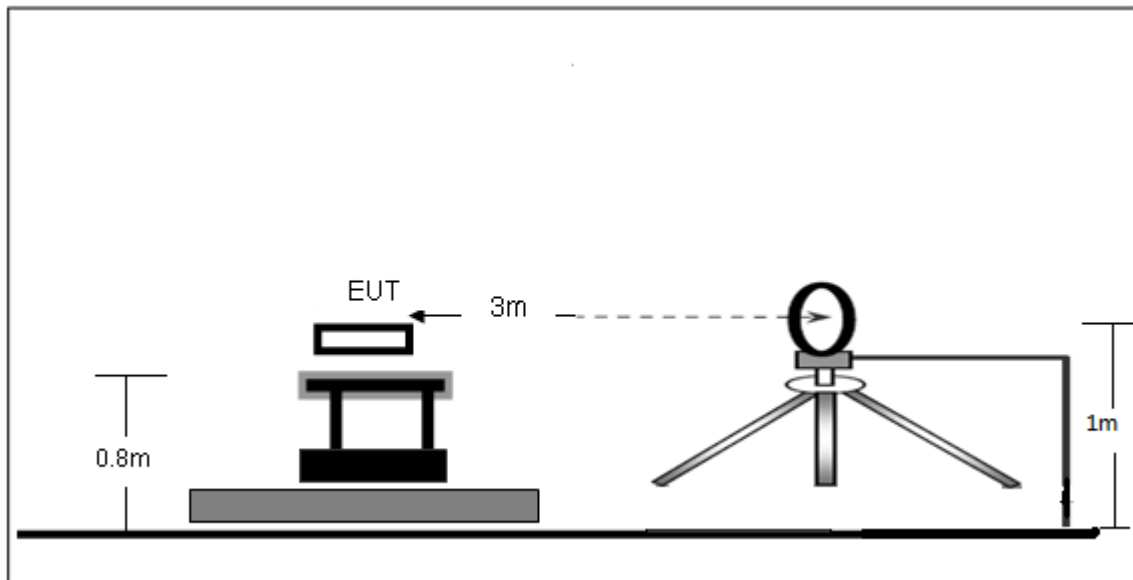
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	30.07	19.73	49.80	66.00	-16.20	QP
2		0.1500	18.07	19.73	37.80	56.00	-18.20	AVG
3		0.2208	27.77	19.83	47.60	62.79	-15.19	QP
4		0.2208	17.75	19.83	37.58	52.79	-15.21	AVG
5		0.2940	27.43	19.83	47.26	60.41	-13.15	QP
6		0.2940	16.23	19.83	36.06	50.41	-14.35	AVG
7		0.3731	27.70	19.84	47.54	58.43	-10.89	QP
8		0.3731	21.92	19.84	41.76	48.43	-6.67	AVG
9		0.4994	25.82	19.84	45.66	56.01	-10.35	QP
10	*	0.4994	22.33	19.84	42.17	46.01	-3.84	AVG
11		0.7508	21.95	19.86	41.81	56.00	-14.19	QP
12		0.7508	17.46	19.86	37.32	46.00	-8.68	AVG

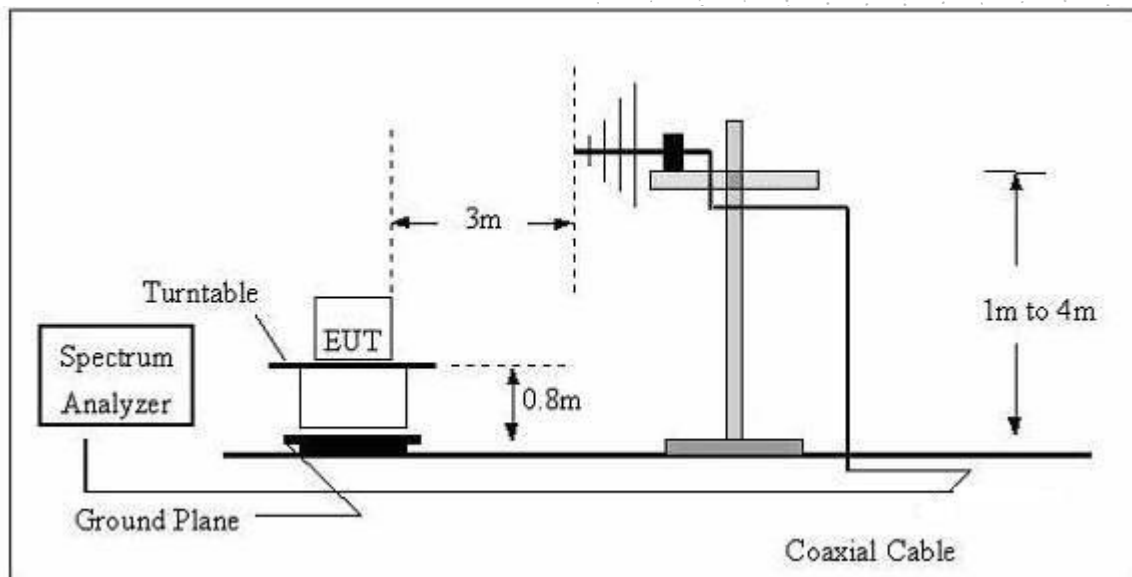
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

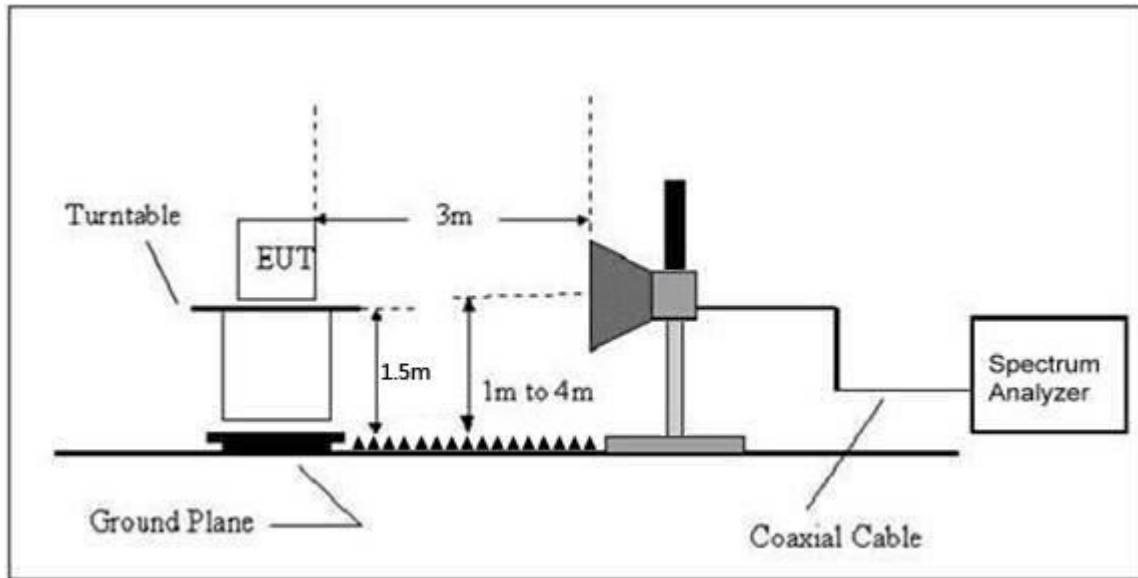
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	24000/F(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		

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

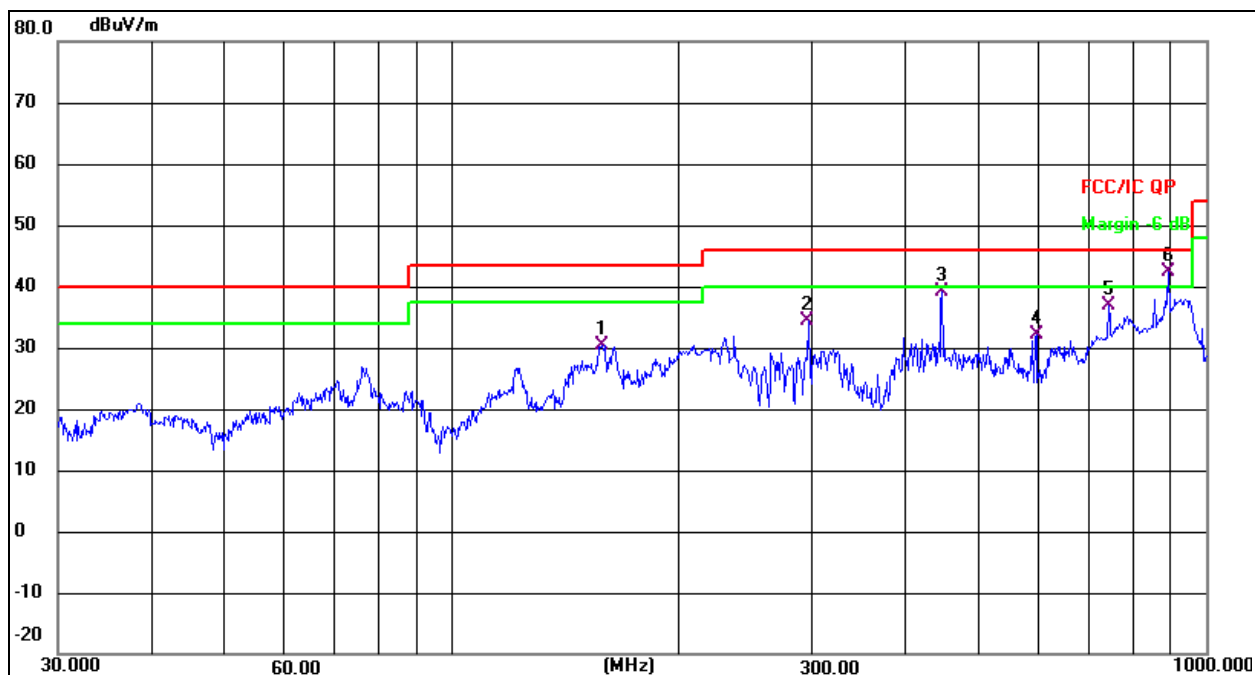
Note:

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

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

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

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

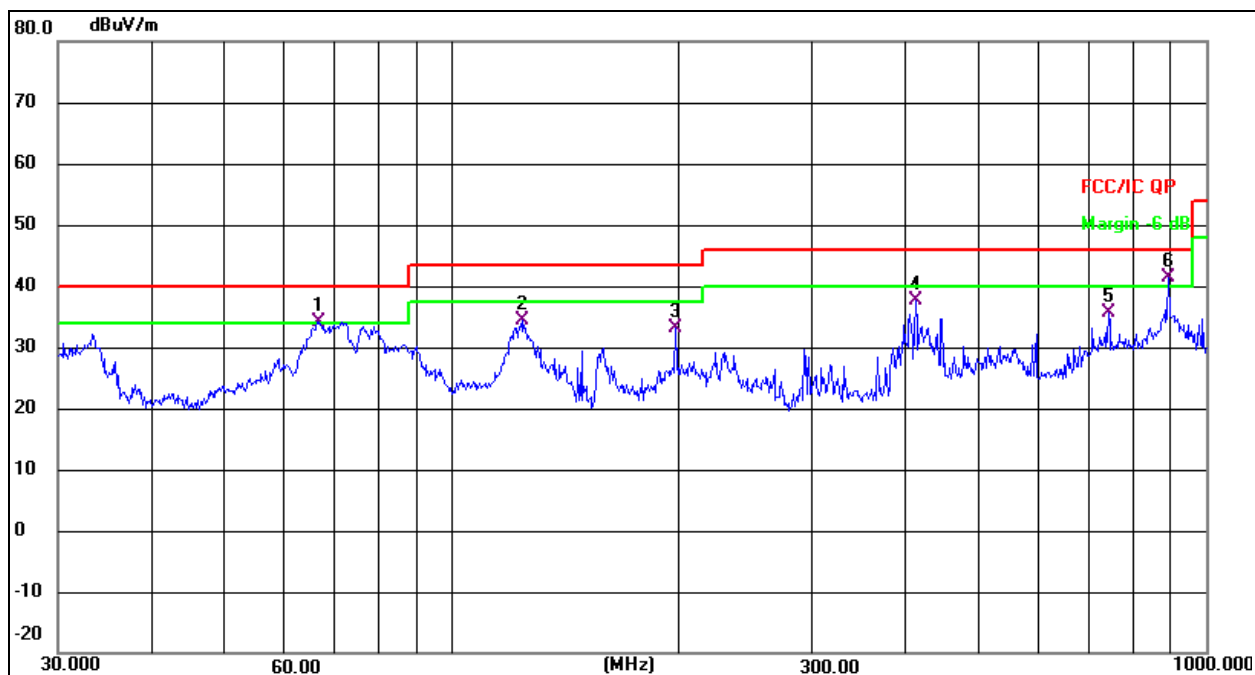


Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	158.1123	40.89	-10.43	30.46	43.50	-13.04	QP
2	297.2238	43.87	-9.39	34.48	46.00	-11.52	QP
3	446.4139	43.63	-4.54	39.09	46.00	-6.91	QP
4	595.1326	33.57	-1.46	32.11	46.00	-13.89	QP
5	742.2586	35.75	1.14	36.89	46.00	-9.11	QP
6 *	890.7277	38.84	3.61	42.45	46.00	-3.55	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.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	66.4989	46.66	-12.56	34.10	40.00	-5.90	QP
2	124.1329	46.29	-11.87	34.42	43.50	-9.08	QP
3	197.8925	46.54	-13.37	33.17	43.50	-10.33	QP
4	411.8240	43.86	-6.23	37.63	46.00	-8.37	QP
5	742.2586	34.49	1.14	35.63	46.00	-10.37	QP
6 *	890.7277	37.78	3.61	41.39	46.00	-4.61	QP

Test Mode:	TX(5.1G) - 802.11a
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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 (5180 MHz)-Above 1G							
V	4434.136	71.15	-20.73	50.42	68.2	-17.78	PK
V	4434.136	59.07	-20.73	38.34	54	-15.66	AV
V	10360.122	60.34	-9.36	50.98	68.2	-17.22	PK
V	10360.122	49.30	-9.36	39.94	54	-14.06	AV
V	15540.087	60.55	-7.84	52.71	74	-21.29	PK
V	15540.087	49.21	-7.84	41.37	54	-12.63	AV
H	4434.153	70.13	-20.73	49.40	68.2	-18.80	PK
H	4434.153	59.24	-20.73	38.51	54	-15.49	AV
H	10360.032	61.63	-9.36	52.27	68.2	-15.93	PK
H	10360.032	49.03	-9.36	39.67	54	-14.33	AV
H	15540.037	60.26	-7.84	52.42	74	-21.58	PK
H	15540.037	49.91	-7.84	42.07	54	-11.93	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.072	73.76	-20.42	53.35	74	-20.65	PK
V	4592.072	59.80	-20.42	39.39	54	-14.61	AV
V	10400.059	61.57	-9.30	52.27	68.2	-15.93	PK
V	10400.059	49.75	-9.30	40.45	54	-13.55	AV
V	15600.001	64.01	-7.82	56.19	74	-17.81	PK
V	15600.001	49.44	-7.82	41.62	54	-12.38	AV
H	4592.042	70.11	-20.42	49.69	74	-24.31	PK
H	4592.042	59.92	-20.42	39.50	54	-14.50	AV
H	10400.117	63.14	-9.30	53.84	68.2	-14.36	PK
H	10400.117	49.87	-9.30	40.57	54	-13.43	AV
H	15600.061	64.12	-7.82	56.30	74	-17.70	PK
H	15600.061	49.72	-7.82	41.90	54	-12.10	AV
High Channel (5240 MHz)-Above 1G							
V	4739.130	71.90	-20.12	51.77	74	-22.23	PK
V	4739.130	59.58	-20.12	39.46	54	-14.54	AV
V	10480.089	60.58	-9.18	51.40	68.2	-16.80	PK
V	10480.089	49.59	-9.18	40.41	54	-13.59	AV
V	15720.159	61.83	-7.78	54.05	74	-19.95	PK
V	15720.159	49.69	-7.78	41.91	54	-12.09	AV
H	4739.013	74.86	-20.12	54.74	74	-19.26	PK
H	4739.013	59.04	-20.12	38.92	54	-15.08	AV
H	10480.097	63.72	-9.18	54.54	68.2	-13.66	PK
H	10480.097	49.75	-9.18	40.57	54	-13.43	AV
H	15720.141	60.96	-7.78	53.18	74	-20.82	PK
H	15720.141	49.70	-7.78	41.92	54	-12.08	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)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.144	70.72	-20.73	49.99	68.2	-18.21	PK
V	4434.144	59.86	-20.73	39.13	54	-14.87	AV
V	10360.054	61.97	-9.36	52.61	68.2	-15.59	PK
V	10360.054	49.46	-9.36	40.10	54	-13.90	AV
V	15540.184	61.68	-7.84	53.84	74	-20.16	PK
V	15540.184	49.85	-7.84	42.01	54	-11.99	AV
H	4434.057	71.20	-20.73	50.47	68.2	-17.73	PK
H	4434.057	59.21	-20.73	38.47	54	-15.53	AV
H	10360.017	60.78	-9.36	51.42	68.2	-16.78	PK
H	10360.017	49.12	-9.36	39.76	54	-14.24	AV
H	15540.004	63.11	-7.84	55.27	74	-18.73	PK
H	15540.004	49.55	-7.84	41.71	54	-12.29	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.096	71.03	-20.42	50.61	74	-23.39	PK
V	4592.096	59.39	-20.42	38.98	54	-15.02	AV
V	10400.069	62.98	-9.30	53.68	68.2	-14.52	PK
V	10400.069	49.64	-9.30	40.34	54	-13.66	AV
V	15600.191	60.78	-7.82	52.96	74	-21.04	PK
V	15600.191	49.37	-7.82	41.55	54	-12.45	AV
H	4592.043	71.46	-20.42	51.05	74	-22.95	PK
H	4592.043	59.97	-20.42	39.56	54	-14.44	AV
H	10400.069	61.29	-9.30	51.99	68.2	-16.21	PK
H	10400.069	49.78	-9.30	40.48	54	-13.52	AV
H	15600.048	61.05	-7.82	53.23	74	-20.77	PK
H	15600.048	49.96	-7.82	42.14	54	-11.86	AV
High Channel (5240 MHz)-Above 1G							
V	4739.081	70.33	-20.12	50.21	74	-23.79	PK
V	4739.081	59.03	-20.12	38.90	54	-15.10	AV
V	10480.159	63.88	-9.18	54.70	68.2	-13.50	PK
V	10480.159	49.44	-9.18	40.26	54	-13.74	AV
V	15720.143	63.48	-7.78	55.70	74	-18.30	PK
V	15720.143	49.37	-7.78	41.59	54	-12.41	AV
H	4739.126	72.73	-20.12	52.61	74	-21.39	PK
H	4739.126	59.74	-20.12	39.62	54	-14.38	AV
H	10480.134	61.87	-9.18	52.69	68.2	-15.51	PK
H	10480.134	49.06	-9.18	39.88	54	-14.12	AV
H	15720.175	60.75	-7.78	52.97	74	-21.03	PK
H	15720.175	49.67	-7.78	41.89	54	-12.11	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	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.148	74.72	-20.73	53.99	68.2	-14.21	PK
V	4434.148	59.53	-20.73	38.80	54	-15.20	AV
V	10380.010	64.10	-9.33	54.77	68.2	-13.43	PK
V	10380.010	49.15	-9.33	39.82	54	-14.18	AV
V	15570.178	64.94	-7.83	57.11	74	-16.89	PK
V	15570.178	49.59	-7.83	41.76	54	-12.24	AV
H	4434.098	72.40	-20.73	51.67	74	-22.33	PK
H	4434.098	59.82	-20.73	39.09	54	-14.91	AV
H	10380.120	61.91	-9.33	52.58	68.2	-15.62	PK
H	10380.120	49.59	-9.33	40.26	54	-13.74	AV
H	15570.063	61.00	-7.83	53.17	74	-20.83	PK
H	15570.063	49.67	-7.83	41.84	54	-12.16	AV
High Channel (5230 MHz)-Above 1G							
V	4739.081	70.27	-20.12	50.15	68.2	-18.05	PK
V	4739.081	59.74	-20.12	39.62	54	-14.38	AV
V	10460.160	60.75	-9.21	51.54	68.2	-16.66	PK
V	10460.160	49.78	-9.21	40.57	54	-13.43	AV
V	15690.038	60.83	-7.79	53.04	74	-20.96	PK
V	15690.038	49.50	-7.79	41.71	54	-12.29	AV
H	4739.062	73.10	-20.12	52.97	68.2	-15.23	PK
H	4739.062	59.97	-20.12	39.85	54	-14.15	AV
H	10460.003	62.40	-9.21	53.19	68.2	-15.01	PK
H	10460.003	49.17	-9.21	39.96	54	-14.04	AV
H	15690.040	62.89	-7.79	55.10	74	-18.90	PK
H	15690.040	49.29	-7.79	41.50	54	-12.50	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)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.195	73.11	-20.73	52.38	68.2	-15.82	PK
V	4434.195	59.03	-20.73	38.30	54	-15.70	AV
V	10360.117	61.97	-9.36	52.61	68.2	-15.59	PK
V	10360.117	49.28	-9.36	39.92	54	-14.08	AV
V	15540.079	62.74	-7.84	54.90	74	-19.10	PK
V	15540.079	49.18	-7.84	41.34	54	-12.66	AV
H	4434.178	71.87	-20.73	51.13	68.2	-17.07	PK
H	4434.178	59.82	-20.73	39.09	54	-14.91	AV
H	10360.140	62.41	-9.36	53.05	68.2	-15.15	PK
H	10360.140	49.06	-9.36	39.70	54	-14.30	AV
H	15540.041	61.55	-7.84	53.71	74	-20.29	PK
H	15540.041	49.72	-7.84	41.88	54	-12.12	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.082	73.76	-20.42	53.34	74	-20.66	PK
V	4592.082	59.40	-20.42	38.98	54	-15.02	AV
V	10400.088	62.66	-9.30	53.36	68.2	-14.84	PK
V	10400.088	49.12	-9.30	39.82	54	-14.18	AV
V	15600.124	64.81	-7.82	56.99	74	-17.01	PK
V	15600.124	49.58	-7.82	41.76	54	-12.24	AV
H	4592.028	74.25	-20.42	53.84	74	-20.16	PK
H	4592.028	59.77	-20.42	39.35	54	-14.65	AV
H	10400.135	63.26	-9.30	53.96	68.2	-14.24	PK
H	10400.135	49.33	-9.30	40.03	54	-13.97	AV
H	15600.072	64.57	-7.82	56.75	74	-17.25	PK
H	15600.072	49.28	-7.82	41.46	54	-12.54	AV
High Channel (5240 MHz)-Above 1G							
V	4739.114	74.95	-20.12	54.83	74	-19.17	PK
V	4739.114	59.10	-20.12	38.98	54	-15.02	AV
V	10480.193	60.23	-9.18	51.05	68.2	-17.15	PK
V	10480.193	49.93	-9.18	40.75	54	-13.25	AV
V	15720.041	62.80	-7.78	55.02	74	-18.98	PK
V	15720.041	49.66	-7.78	41.88	54	-12.12	AV
H	4739.033	73.52	-20.12	53.40	74	-20.60	PK
H	4739.033	59.33	-20.12	39.21	54	-14.79	AV
H	10480.029	61.57	-9.18	52.39	68.2	-15.81	PK
H	10480.029	49.15	-9.18	39.97	54	-14.03	AV
H	15720.061	64.03	-7.78	56.25	74	-17.75	PK
H	15720.061	49.23	-7.78	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:	TX(5.1G) - 802.11ac-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.053	73.82	-20.73	53.09	68.2	-15.11	PK
V	4434.053	59.24	-20.73	38.51	54	-15.49	AV
V	10380.106	61.63	-9.33	52.30	68.2	-15.90	PK
V	10380.106	49.27	-9.33	39.94	54	-14.06	AV
V	15570.082	64.20	-7.83	56.37	74	-17.63	PK
V	15570.082	49.37	-7.83	41.54	54	-12.46	AV
H	4434.032	71.61	-20.73	50.88	74	-23.12	PK
H	4434.032	59.04	-20.73	38.31	54	-15.69	AV
H	10380.113	64.31	-9.33	54.98	68.2	-13.22	PK
H	10380.113	49.33	-9.33	40.00	54	-14.00	AV
H	15570.012	60.95	-7.83	53.12	74	-20.88	PK
H	15570.012	49.59	-7.83	41.76	54	-12.24	AV
High Channel (5230 MHz)-Above 1G							
V	4739.174	74.72	-20.12	54.60	68.2	-13.60	PK
V	4739.174	59.11	-20.12	38.98	54	-15.02	AV
V	10460.128	60.37	-9.21	51.16	68.2	-17.04	PK
V	10460.128	49.92	-9.21	40.71	54	-13.29	AV
V	15690.130	64.03	-7.79	56.24	74	-17.76	PK
V	15690.130	49.92	-7.79	42.13	54	-11.87	AV
H	4739.108	71.21	-20.12	51.09	68.2	-17.11	PK
H	4739.108	59.45	-20.12	39.33	54	-14.67	AV
H	10460.118	60.87	-9.21	51.66	68.2	-16.54	PK
H	10460.118	49.26	-9.21	40.05	54	-13.95	AV
H	15690.032	64.22	-7.79	56.43	74	-17.57	PK
H	15690.032	49.39	-7.79	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) - 802.11ax-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.004	72.89	-20.73	52.16	68.2	-16.04	PK
V	4434.004	59.42	-20.73	38.69	54	-15.31	AV
V	10360.179	60.07	-9.36	50.71	68.2	-17.49	PK
V	10360.179	49.62	-9.36	40.26	54	-13.74	AV
V	15540.136	60.79	-7.84	52.95	74	-21.05	PK
V	15540.136	49.23	-7.84	41.39	54	-12.61	AV
H	4434.010	71.32	-20.73	50.59	68.2	-17.61	PK
H	4434.010	59.43	-20.73	38.70	54	-15.30	AV
H	10360.033	60.20	-9.36	50.84	68.2	-17.36	PK
H	10360.033	49.67	-9.36	40.31	54	-13.69	AV
H	15540.009	63.21	-7.84	55.37	74	-18.63	PK
H	15540.009	49.14	-7.84	41.30	54	-12.70	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.096	71.78	-20.42	51.36	74	-22.64	PK
V	4592.096	59.95	-20.42	39.53	54	-14.47	AV
V	10400.085	64.53	-9.30	55.23	68.2	-12.97	PK
V	10400.085	49.72	-9.30	40.42	54	-13.58	AV
V	15600.126	60.66	-7.82	52.84	74	-21.16	PK
V	15600.126	49.16	-7.82	41.34	54	-12.66	AV
H	4592.045	70.83	-20.42	50.42	74	-23.58	PK
H	4592.045	59.04	-20.42	38.62	54	-15.38	AV
H	10400.056	62.78	-9.30	53.48	68.2	-14.72	PK
H	10400.056	49.23	-9.30	39.93	54	-14.07	AV
H	15600.160	60.40	-7.82	52.58	74	-21.42	PK
H	15600.160	49.95	-7.82	42.13	54	-11.87	AV
High Channel (5240 MHz)-Above 1G							
V	4739.063	74.03	-20.12	53.91	74	-20.09	PK
V	4739.063	59.39	-20.12	39.27	54	-14.73	AV
V	10480.188	61.35	-9.18	52.17	68.2	-16.03	PK
V	10480.188	49.30	-9.18	40.12	54	-13.88	AV
V	15720.041	63.68	-7.78	55.90	74	-18.10	PK
V	15720.041	49.16	-7.78	41.38	54	-12.62	AV
H	4739.194	71.65	-20.12	51.53	74	-22.47	PK
H	4739.194	59.37	-20.12	39.25	54	-14.75	AV
H	10480.126	62.87	-9.18	53.69	68.2	-14.51	PK
H	10480.126	49.15	-9.18	39.97	54	-14.03	AV
H	15720.147	60.99	-7.78	53.21	74	-20.79	PK
H	15720.147	49.66	-7.78	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) - 802.11ax-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.053	72.29	-20.73	51.56	68.2	-16.64	PK
V	4434.053	59.73	-20.73	39.00	54	-15.00	AV
V	10380.070	62.71	-9.33	53.38	68.2	-14.82	PK
V	10380.070	49.63	-9.33	40.30	54	-13.70	AV
V	15570.084	61.50	-7.83	53.67	74	-20.33	PK
V	15570.084	49.28	-7.83	41.45	54	-12.55	AV
H	4434.184	74.36	-20.73	53.63	74	-20.37	PK
H	4434.184	59.02	-20.73	38.29	54	-15.71	AV
H	10380.181	64.95	-9.33	55.62	68.2	-12.58	PK
H	10380.181	49.39	-9.33	40.06	54	-13.94	AV
H	15570.138	61.45	-7.83	53.62	74	-20.38	PK
H	15570.138	49.63	-7.83	41.80	54	-12.20	AV
High Channel (5230 MHz)-Above 1G							
V	4739.031	70.23	-20.12	50.11	68.2	-18.09	PK
V	4739.031	59.17	-20.12	39.04	54	-14.96	AV
V	10460.114	63.89	-9.21	54.68	68.2	-13.52	PK
V	10460.114	49.26	-9.21	40.05	54	-13.95	AV
V	15690.005	62.65	-7.79	54.86	74	-19.14	PK
V	15690.005	49.71	-7.79	41.92	54	-12.08	AV
H	4739.150	73.93	-20.12	53.81	68.2	-14.39	PK
H	4739.150	59.68	-20.12	39.56	54	-14.44	AV
H	10460.025	62.10	-9.21	52.89	68.2	-15.31	PK
H	10460.025	49.30	-9.21	40.09	54	-13.91	AV
H	15690.147	62.36	-7.79	54.57	74	-19.43	PK
H	15690.147	49.95	-7.79	42.16	54	-11.84	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11ac-HT80
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
V	4434.032	74.80	-20.73	54.07	68.2	-14.13	PK
V	4434.032	59.46	-20.73	38.73	54	-15.27	AV
V	10420.028	64.82	-9.27	55.55	68.2	-12.65	PK
V	10420.028	49.47	-9.27	40.20	54	-13.80	AV
V	15630.101	64.50	-7.81	56.69	74	-17.31	PK
V	15630.101	49.11	-7.81	41.30	54	-12.70	AV
H	4434.140	73.80	-20.73	53.06	68.2	-15.14	PK
H	4434.140	59.68	-20.73	38.95	54	-15.05	AV
H	10420.059	40.07	9.27	49.34	68.2	-18.86	PK
H	10420.059	29.04	9.27	38.31	54	-15.69	AV
H	15630.180	64.10	-7.81	56.29	74	-17.71	PK
H	15630.180	49.33	-7.81	41.52	54	-12.48	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) - 802.11ax-HT80
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G							
V	4434.139	71.01	-20.73	50.28	68.2	-17.92	PK
V	4434.139	59.75	-20.73	39.02	54	-14.98	AV
V	10420.185	63.71	-9.27	54.44	68.2	-13.76	PK
V	10420.185	49.63	-9.27	40.36	54	-13.64	AV
V	15630.139	64.78	-7.81	56.97	74	-17.03	PK
V	15630.139	49.62	-7.81	41.81	54	-12.19	AV
H	4434.158	74.12	-20.73	53.39	68.2	-14.81	PK
H	4434.158	59.73	-20.73	39.00	54	-15.00	AV
H	10420.161	41.82	9.27	51.09	68.2	-17.11	PK
H	10420.161	29.44	9.27	38.71	54	-15.29	AV
H	15630.198	64.65	-7.81	56.84	74	-17.16	PK
H	15630.198	49.99	-7.81	42.18	54	-11.82	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)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
V	4679.083	74.96	-20.24	54.72	74	-19.28	PK
V	4679.083	59.21	-20.24	38.97	54	-15.03	AV
V	11490.092	60.09	-8.79	51.30	68.2	-16.90	PK
V	11490.092	49.41	-8.79	40.62	54	-13.38	AV
V	17235.137	55.68	-3.18	52.50	68.2	-15.70	PK
V	17235.137	44.17	-3.18	40.99	54	-13.01	AV
H	4679.148	73.34	-20.73	52.61	74	-21.39	PK
H	4679.148	59.38	-20.73	38.65	54	-15.35	AV
H	11490.065	60.61	-8.79	51.82	68.2	-16.38	PK
H	11490.065	49.25	-8.79	40.46	54	-13.54	AV
H	17235.135	57.05	-3.18	53.87	68.2	-14.33	PK
H	17235.135	44.27	-3.18	41.09	54	-12.91	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.079	74.39	-20.42	53.97	74	-20.03	PK
V	4592.079	59.84	-20.42	39.43	54	-14.57	AV
V	11570.013	64.59	-8.86	55.73	68.2	-12.47	PK
V	11570.013	49.43	-8.86	40.57	54	-13.43	AV
V	17355.030	58.90	-2.52	56.38	68.2	-11.82	PK
V	17355.030	44.77	-2.52	42.25	54	-11.75	AV
H	4592.107	73.97	-20.42	53.56	74	-20.44	PK
H	4592.107	59.24	-20.42	38.82	54	-15.18	AV
H	11570.076	64.51	-8.86	55.65	68.2	-12.55	PK
H	11570.076	49.51	-8.86	40.65	54	-13.35	AV
H	17355.150	57.04	-2.52	54.52	68.2	-13.68	PK
H	17355.150	44.06	-2.52	41.54	54	-12.46	AV
High Channel (5825 MHz)-Above 1G							
V	6039.070	72.26	-18.93	53.33	68.2	-14.87	PK
V	6039.070	59.10	-18.93	40.17	54	-13.83	AV
V	11650.032	61.09	-8.92	52.17	74	-21.83	PK
V	11650.032	49.00	-8.92	40.08	54	-13.92	AV
V	17475.154	58.82	-1.86	56.96	68.2	-11.24	PK
V	17475.154	44.85	-1.86	42.99	54	-11.01	AV
H	6039.096	74.70	-18.93	55.77	68.2	-12.43	PK
H	6039.096	59.67	-18.93	40.74	54	-13.26	AV
H	11650.006	62.73	-8.92	53.81	74	-20.19	PK
H	11650.006	49.49	-8.92	40.57	54	-13.43	AV
H	17475.157	56.74	-1.86	54.88	68.2	-13.32	PK
H	17475.157	44.98	-1.86	43.12	54	-10.88	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) - 802.11n-HT20

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
V	4679.080	71.27	-20.24	51.03	74	-22.97	PK
V	4679.080	59.83	-20.24	39.58	54	-14.42	AV
V	11490.079	62.02	-8.79	53.23	68.2	-14.97	PK
V	11490.079	49.57	-8.79	40.78	54	-13.22	AV
V	17235.064	56.12	-3.18	52.94	68.2	-15.26	PK
V	17235.064	44.62	-3.18	41.44	54	-12.56	AV
H	4679.089	74.38	-20.24	54.14	74	-19.86	PK
H	4679.089	59.47	-20.24	39.23	54	-14.77	AV
H	11490.030	63.92	-8.79	55.13	68.2	-13.07	PK
H	11490.030	49.17	-8.79	40.38	54	-13.62	AV
H	17235.029	56.79	-3.18	53.61	68.2	-14.59	PK
H	17235.029	44.91	-3.18	41.73	54	-12.27	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.161	72.54	-20.42	52.13	74	-21.87	PK
V	4592.161	59.52	-20.42	39.11	54	-14.89	AV
V	11570.093	62.09	-8.86	53.23	68.2	-14.97	PK
V	11570.093	49.56	-8.86	40.70	54	-13.30	AV
V	17355.190	58.31	-2.52	55.79	68.2	-12.41	PK
V	17355.190	44.98	-2.52	42.46	54	-11.54	AV
H	4592.031	71.03	-20.42	50.61	74	-23.39	PK
H	4592.031	59.91	-20.42	39.49	54	-14.51	AV
H	11570.158	64.50	-8.86	55.64	68.2	-12.56	PK
H	11570.158	49.09	-8.86	40.23	54	-13.77	AV
H	17355.059	59.97	-2.52	57.45	68.2	-10.75	PK
H	17355.059	44.31	-2.52	41.79	54	-12.21	AV
High Channel (5825 MHz)-Above 1G							
V	6039.177	72.04	-18.93	53.11	68.2	-15.09	PK
V	6039.177	59.96	-18.93	41.03	54	-12.97	AV
V	11650.047	63.62	-8.92	54.70	74	-19.30	PK
V	11650.047	49.65	-8.92	40.73	54	-13.27	AV
V	17475.164	58.85	-1.86	56.99	68.2	-11.21	PK
V	17475.164	44.41	-1.86	42.55	54	-11.45	AV
H	6039.106	74.24	-18.93	55.31	68.2	-12.89	PK
H	6039.106	59.35	-18.93	40.41	54	-13.59	AV
H	11650.153	61.45	-8.92	52.53	74	-21.47	PK
H	11650.153	49.10	-8.92	40.18	54	-13.82	AV
H	17475.175	59.87	-1.86	58.01	68.2	-10.19	PK
H	17475.175	44.34	-1.86	42.48	54	-11.52	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.044	71.47	-20.24	51.23	74	-22.77	PK
V	4679.044	59.40	-20.24	39.15	54	-14.85	AV
V	11510.047	63.54	-8.81	54.73	74	-19.27	PK
V	11510.047	49.07	-8.81	40.26	54	-13.74	AV
V	17265.193	57.46	-3.01	54.45	68.2	-13.75	PK
V	17265.193	44.06	-3.01	41.05	54	-12.95	AV
H	4679.046	70.57	-20.24	50.33	74	-23.67	PK
H	4679.046	59.18	-20.24	38.94	54	-15.06	AV
H	11510.177	64.93	-8.81	56.12	74	-17.88	PK
H	11510.177	49.68	-8.81	40.87	54	-13.13	AV
H	17265.133	59.04	-3.01	56.03	68.2	-12.17	PK
H	17265.133	44.39	-3.01	41.38	54	-12.62	AV
High Channel (5795 MHz)-Above 1G							
V	6039.015	73.62	-18.93	54.69	68.2	-13.51	PK
V	6039.015	59.26	-18.93	40.32	54	-13.68	AV
V	11590.003	63.86	-8.87	54.99	74	-19.01	PK
V	11590.003	49.59	-8.87	40.72	54	-13.28	AV
V	17385.139	55.00	-2.35	52.65	68.2	-15.55	PK
V	17385.139	44.44	-2.35	42.09	54	-11.91	AV
H	6039.084	73.51	-18.93	54.57	68.2	-13.63	PK
H	6039.084	59.63	-18.93	40.70	54	-13.30	AV
H	11590.195	61.00	-8.87	52.13	74	-21.87	PK
H	11590.195	49.80	-8.87	40.93	54	-13.07	AV
H	17385.045	55.43	-2.35	53.08	68.2	-15.12	PK
H	17385.045	44.54	-2.35	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(5.8G) - 802.11ac-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.085	73.16	-20.24	52.92	74	-21.08	PK
V	4679.085	59.37	-20.24	39.13	54	-14.87	AV
V	11490.011	62.92	-8.79	54.13	68.2	-14.07	PK
V	11490.011	49.14	-8.79	40.35	54	-13.65	AV
V	17235.142	57.26	-3.18	54.08	68.2	-14.12	PK
V	17235.142	44.32	-3.18	41.14	54	-12.86	AV
H	4679.019	72.81	-20.24	52.56	74	-21.44	PK
H	4679.019	59.63	-20.24	39.39	54	-14.61	AV
H	11490.146	61.32	-8.79	52.53	68.2	-15.67	PK
H	11490.146	49.76	-8.79	40.97	54	-13.03	AV
H	17235.073	55.69	-3.18	52.51	68.2	-15.69	PK
H	17235.073	44.64	-3.18	41.46	54	-12.54	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.030	71.63	-20.42	51.21	74	-22.79	PK
V	4592.030	59.99	-20.42	39.57	54	-14.43	AV
V	11570.164	61.25	-8.86	52.39	68.2	-15.81	PK
V	11570.164	49.67	-8.86	40.81	54	-13.19	AV
V	17355.086	56.88	-2.52	54.36	68.2	-13.84	PK
V	17355.086	44.49	-2.52	41.97	54	-12.03	AV
H	4592.167	72.03	-20.42	51.62	74	-22.38	PK
H	4592.167	59.95	-20.42	39.53	54	-14.47	AV
H	11570.179	64.76	-8.86	55.90	68.2	-12.30	PK
H	11570.179	49.25	-8.86	40.39	54	-13.61	AV
H	17355.180	55.12	-2.52	52.60	68.2	-15.60	PK
H	17355.180	44.38	-2.52	41.86	54	-12.14	AV
High Channel (5825 MHz)-Above 1G							
V	6039.157	71.25	-18.93	52.32	68.2	-15.88	PK
V	6039.157	59.85	-18.93	40.92	54	-13.08	AV
V	11650.180	61.47	-8.92	52.55	74	-21.45	PK
V	11650.180	49.67	-8.92	40.75	54	-13.25	AV
V	17475.062	55.99	-1.86	54.13	68.2	-14.07	PK
V	17475.062	44.48	-1.86	42.62	54	-11.38	AV
H	6039.065	71.00	-18.93	52.07	68.2	-16.13	PK
H	6039.065	59.56	-18.93	40.63	54	-13.37	AV
H	11650.123	61.47	-8.92	52.55	74	-21.45	PK
H	11650.123	49.83	-8.92	40.91	54	-13.09	AV
H	17475.102	55.89	-1.86	54.03	68.2	-14.17	PK
H	17475.102	44.72	-1.86	42.86	54	-11.14	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 (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.040	72.38	-20.24	52.14	74	-21.86	PK
V	4679.040	59.66	-20.24	39.42	54	-14.58	AV
V	11510.053	62.15	-8.81	53.34	74	-20.66	PK
V	11510.053	49.39	-8.81	40.58	54	-13.42	AV
V	17265.003	56.55	-3.01	53.54	68.2	-14.66	PK
V	17265.003	44.08	-3.01	41.07	54	-12.93	AV
H	4679.099	73.99	-20.24	53.75	74	-20.25	PK
H	4679.099	59.34	-20.24	39.10	54	-14.90	AV
H	11510.051	64.38	-8.81	55.57	74	-18.43	PK
H	11510.051	49.77	-8.81	40.96	54	-13.04	AV
H	17265.056	57.28	-3.01	54.27	68.2	-13.93	PK
H	17265.056	44.48	-3.01	41.47	54	-12.53	AV
High Channel (5795 MHz)-Above 1G							
V	6039.189	70.15	-18.93	51.22	68.2	-16.98	PK
V	6039.189	59.75	-18.93	40.82	54	-13.18	AV
V	11590.037	63.55	-8.87	54.68	74	-19.32	PK
V	11590.037	49.83	-8.87	40.96	54	-13.04	AV
V	17385.008	57.24	-2.35	54.89	68.2	-13.31	PK
V	17385.008	44.71	-2.35	42.36	54	-11.64	AV
H	6039.179	73.83	-18.93	54.90	68.2	-13.30	PK
H	6039.179	59.51	-18.93	40.58	54	-13.42	AV
H	11590.103	60.46	-8.87	51.59	74	-22.41	PK
H	11590.103	49.61	-8.87	40.74	54	-13.26	AV
H	17385.093	57.02	-2.35	54.67	68.2	-13.53	PK
H	17385.093	44.48	-2.35	42.13	54	-11.87	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11ax-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.004	72.75	-20.24	52.51	74	-21.49	PK
V	4679.004	59.77	-20.24	39.53	54	-14.47	AV
V	11490.074	64.66	-8.79	55.87	68.2	-12.33	PK
V	11490.074	49.99	-8.79	41.20	54	-12.80	AV
V	17235.120	57.95	-3.18	54.77	68.2	-13.43	PK
V	17235.120	44.91	-3.18	41.73	54	-12.27	AV
H	4679.006	72.65	-20.24	52.40	74	-21.60	PK
H	4679.006	59.92	-20.24	39.67	54	-14.33	AV
H	11490.136	61.86	-8.79	53.07	68.2	-15.13	PK
H	11490.136	49.45	-8.79	40.66	54	-13.34	AV
H	17235.036	59.65	-3.18	56.47	68.2	-11.73	PK
H	17235.036	44.38	-3.18	41.20	54	-12.80	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.073	74.92	-20.42	54.50	74	-19.50	PK
V	4592.073	59.72	-20.42	39.30	54	-14.70	AV
V	11570.005	61.17	-8.86	52.31	68.2	-15.89	PK
V	11570.005	49.85	-8.86	40.99	54	-13.01	AV
V	17355.132	58.16	-2.52	55.64	68.2	-12.56	PK
V	17355.132	44.69	-2.52	42.17	54	-11.83	AV
H	4592.198	72.27	-20.42	51.86	74	-22.14	PK
H	4592.198	59.51	-20.42	39.09	54	-14.91	AV
H	11570.117	61.93	-8.86	53.07	68.2	-15.13	PK
H	11570.117	49.14	-8.86	40.28	54	-13.72	AV
H	17355.104	58.04	-2.52	55.52	68.2	-12.68	PK
H	17355.104	44.55	-2.52	42.03	54	-11.97	AV
High Channel (5825 MHz)-Above 1G							
V	6039.015	71.94	-18.93	53.01	68.2	-15.19	PK
V	6039.015	59.79	-18.93	40.86	54	-13.14	AV
V	11650.100	61.67	-8.92	52.75	74	-21.25	PK
V	11650.100	49.42	-8.92	40.50	54	-13.50	AV
V	17475.104	57.38	-1.86	55.52	68.2	-12.68	PK
V	17475.104	44.71	-1.86	42.85	54	-11.15	AV
H	6039.017	74.24	-18.93	55.31	68.2	-12.89	PK
H	6039.017	59.73	-18.93	40.80	54	-13.20	AV
H	11650.077	61.40	-8.92	52.48	74	-21.52	PK
H	11650.077	49.38	-8.92	40.46	54	-13.54	AV
H	17475.021	58.03	-1.86	56.17	68.2	-12.03	PK
H	17475.021	44.12	-1.86	42.26	54	-11.74	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) - 802.11ax-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.004	74.64	-20.24	54.40	74	-19.60	PK
V	4679.004	59.37	-20.24	39.13	54	-14.87	AV
V	11510.131	61.68	-8.81	52.87	74	-21.13	PK
V	11510.131	49.92	-8.81	41.11	54	-12.89	AV
V	17265.154	59.96	-3.01	56.95	68.2	-11.25	PK
V	17265.154	44.02	-3.01	41.01	54	-12.99	AV
H	4679.147	70.92	-20.24	50.68	74	-23.32	PK
H	4679.147	59.86	-20.24	39.62	54	-14.38	AV
H	11510.092	62.63	-8.81	53.82	74	-20.18	PK
H	11510.092	49.23	-8.81	40.42	54	-13.58	AV
H	17265.092	59.51	-3.01	56.50	68.2	-11.70	PK
H	17265.092	44.68	-3.01	41.67	54	-12.33	AV
High Channel (5795 MHz)-Above 1G							
V	6039.200	74.02	-18.93	55.09	68.2	-13.11	PK
V	6039.200	59.62	-18.93	40.69	54	-13.31	AV
V	11590.007	61.22	-8.87	52.35	74	-21.65	PK
V	11590.007	49.51	-8.87	40.64	54	-13.36	AV
V	17385.082	56.21	-2.35	53.86	68.2	-14.34	PK
V	17385.082	44.57	-2.35	42.22	54	-11.78	AV
H	6039.057	71.25	-18.93	52.31	68.2	-15.89	PK
H	6039.057	59.16	-18.93	40.23	54	-13.77	AV
H	11590.059	63.87	-8.87	55.00	74	-19.00	PK
H	11590.059	49.89	-8.87	41.02	54	-12.98	AV
H	17385.014	57.14	-2.35	54.79	68.2	-13.41	PK
H	17385.014	44.33	-2.35	41.98	54	-12.02	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11ac-HT80
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
V	4679.174	74.32	-20.24	54.07	74	-19.93	PK
V	4679.174	59.50	-20.24	39.26	54	-14.74	AV
V	11550.145	61.49	-8.84	52.65	74	-21.35	PK
V	11550.145	49.60	-8.84	40.76	54	-13.24	AV
V	17325.094	56.85	-2.68	54.17	68.2	-14.03	PK
V	17325.094	44.58	-2.68	41.90	54	-12.10	AV
H	4679.115	73.75	-20.24	53.51	74	-20.49	PK
H	4679.115	59.24	-20.24	38.99	54	-15.01	AV
H	11550.074	60.95	-8.84	52.11	74	-21.89	PK
H	11550.074	49.27	-8.84	40.43	54	-13.57	AV
H	17325.035	59.97	-2.68	57.29	68.2	-10.91	PK
H	17325.035	44.29	-2.68	41.61	54	-12.39	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11ax-HT80
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5775 MHz)-Above 1G							
V	4679.103	71.84	-20.24	51.60	74	-22.40	PK
V	4679.103	59.17	-20.24	38.93	54	-15.07	AV
V	11550.113	63.78	-8.84	54.94	74	-19.06	PK
V	11550.113	49.52	-8.84	40.68	54	-13.32	AV
V	17325.001	58.98	-2.68	56.30	68.2	-11.90	PK
V	17325.001	44.38	-2.68	41.70	54	-12.30	AV
H	4679.111	72.30	-20.24	52.06	74	-21.94	PK
H	4679.111	59.42	-20.24	39.17	54	-14.83	AV
H	11550.029	60.71	-8.84	51.87	74	-22.13	PK
H	11550.029	49.55	-8.84	40.71	54	-13.29	AV
H	17325.185	56.36	-2.68	53.68	68.2	-14.52	PK
H	17325.185	44.18	-2.68	41.50	54	-12.50	AV

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

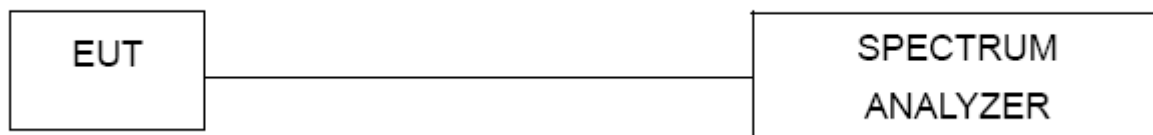
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3 Test procedure

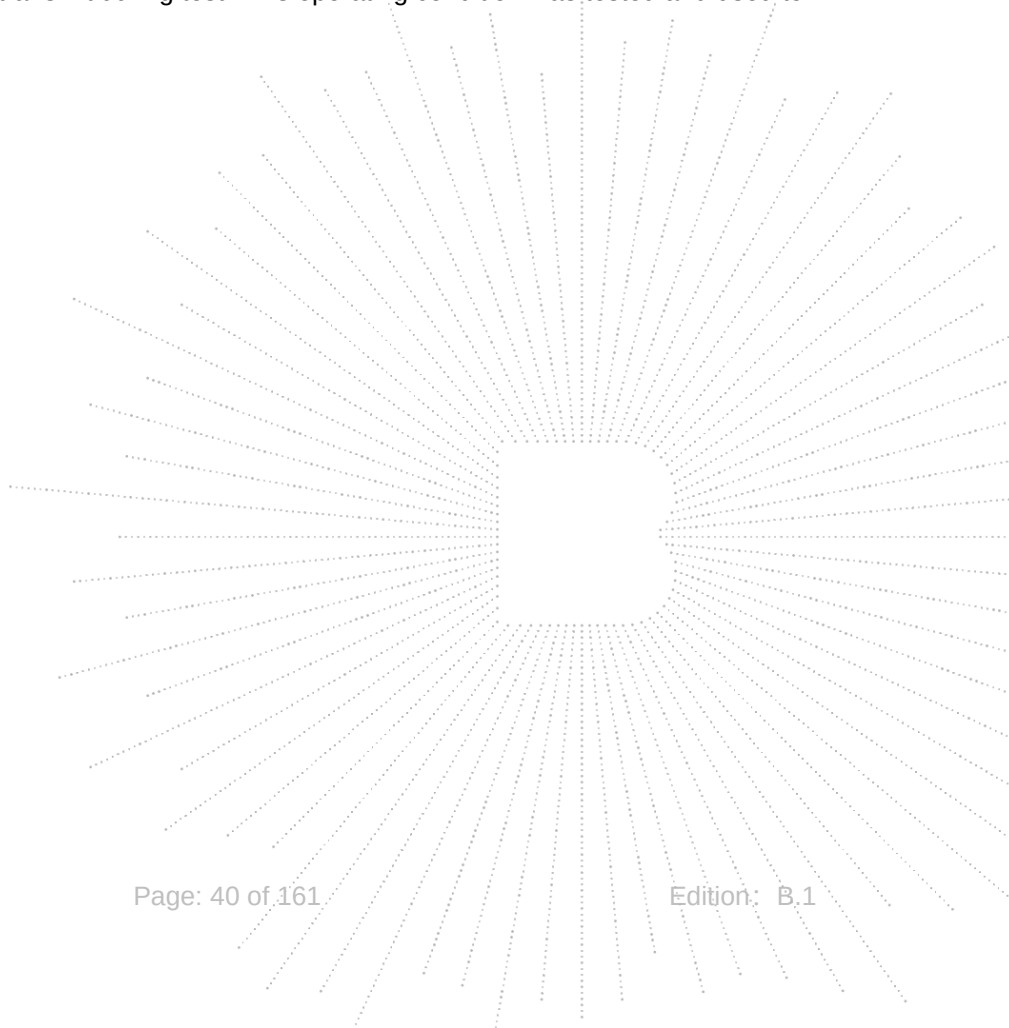
For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 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 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 KHz is available on nearly all spectrum analyzers.

8.4 EUT operating Conditions

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

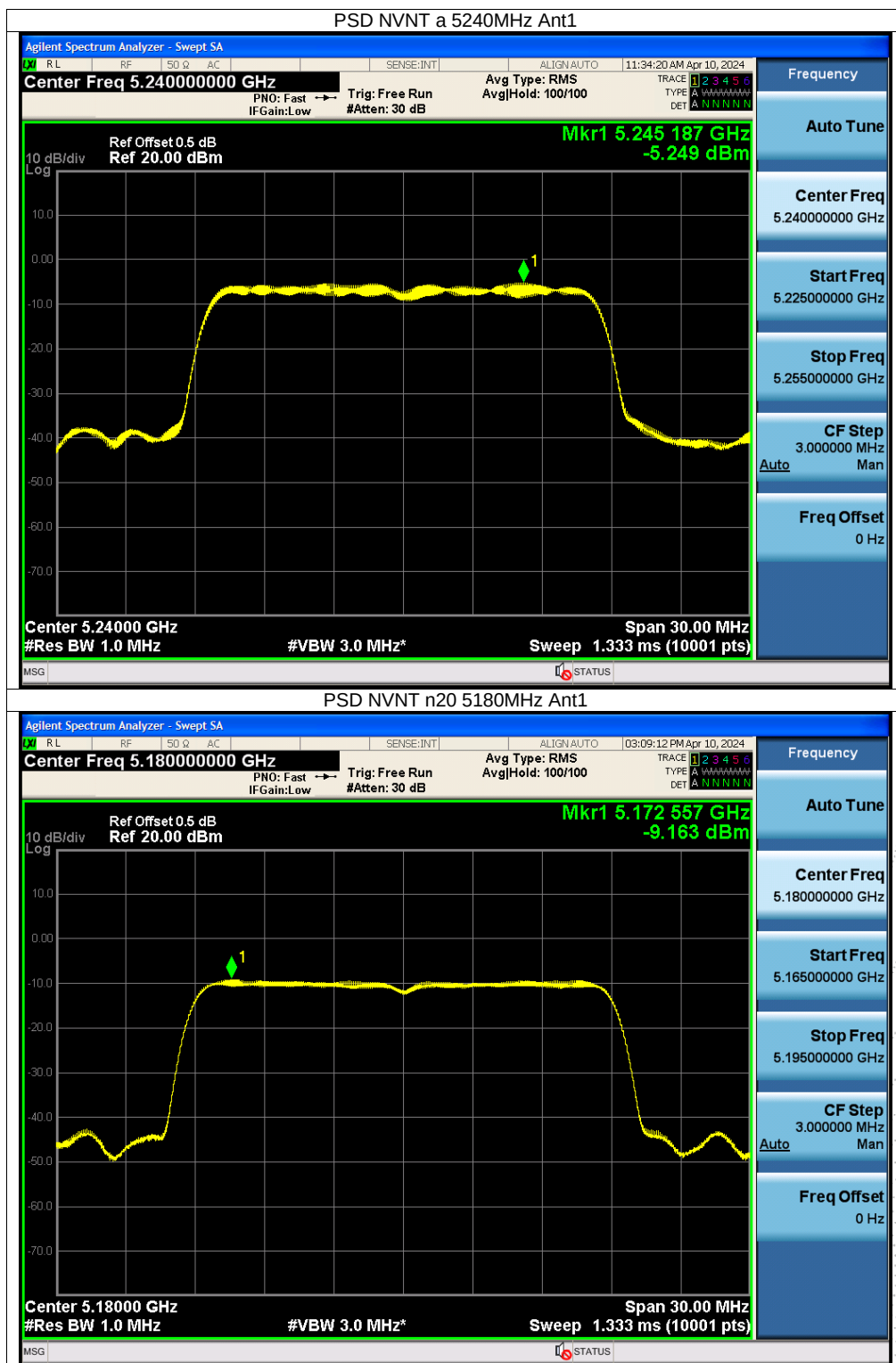


8.5 Test Result

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

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-4.95	11	Pass
NVNT	a	5200	-6.06	11	Pass
NVNT	a	5240	-5.25	11	Pass
NVNT	n20	5180	-9.16	11	Pass
NVNT	n20	5200	-7.11	11	Pass
NVNT	n20	5240	-6.83	11	Pass
NVNT	n40	5190	-12.16	11	Pass
NVNT	n40	5230	-11.5	11	Pass
NVNT	ac20	5180	-6.96	11	Pass
NVNT	ac20	5200	-7.4	11	Pass
NVNT	ac20	5240	-8.81	11	Pass
NVNT	ac40	5190	-10.38	11	Pass
NVNT	ac40	5230	-9.18	11	Pass
NVNT	ac80	5210	-15.18	11	Pass
NVNT	ax20	5180	-8.81	11	Pass
NVNT	ax20	5200	-9.21	11	Pass
NVNT	ax20	5240	-8.16	11	Pass
NVNT	ax40	5190	-10.39	11	Pass
NVNT	ax40	5230	-9.97	11	Pass
NVNT	ax80	5210	-14.9	11	Pass





















Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-6.79	30	Pass
NVNT	a	5785	2.55	30	Pass
NVNT	a	5825	1.52	30	Pass
NVNT	n20	5745	0.73	30	Pass
NVNT	n20	5785	2.21	30	Pass
NVNT	n20	5825	2.48	30	Pass
NVNT	n40	5755	0.69	30	Pass
NVNT	n40	5795	-3.84	30	Pass
NVNT	ac20	5745	-0.38	30	Pass
NVNT	ac20	5785	1.13	30	Pass
NVNT	ac20	5825	-0.69	30	Pass
NVNT	ac40	5755	-2.89	30	Pass
NVNT	ac40	5795	-4.94	30	Pass
NVNT	ac80	5775	-6.65	30	Pass
NVNT	ax20	5745	-8.27	30	Pass
NVNT	ax20	5785	-7.11	30	Pass
NVNT	ax20	5825	-9.10	30	Pass
NVNT	ax40	5755	-9.98	30	Pass
NVNT	ax40	5795	-12.39	30	Pass
NVNT	ax80	5775	-13.02	30	Pass

