

TEST REPORT

Report No.: BCTC2011000488-4E

Applicant: CP & EB IT

Product Name: AAWireless

Model/Type Ref.: AAWireless-001

Tested Date: Nov. 09, 2020 to Nov. 26, 2020

Issued Date: Nov. 26, 2020

Shenzhen BCTC Testing Co., Ltd.



FCC ID:2AYYY-001

Product Name: AAWireless
Trademark: N/A
Model/Type Ref.: AAWireless-001
Prepared For: CP & EB IT
Address: Roderwolderdijk 46, Groningen, 9744 TH, Netherlands
Manufacturer: ROCKPi Trading Limited
Address: 912-913, Zhongxi ECO International Building, Shuiku, Road, Xixiang, Baoan, Shenzhen, 518102 China
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Sample Received Date: Nov. 09, 2020
Sample tested Date: Nov. 09, 2020 to Nov. 26, 2020
Issue Date: Nov. 26, 2020
Report No.: BCTC2011000488-4E
FCC Part15 15.407
ANSI C63.10-2013
Test Standards KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results PASS

Tested by:



Kelsey Tan/ Project Handler

Approved by:



Zero Zhou/Reviewer

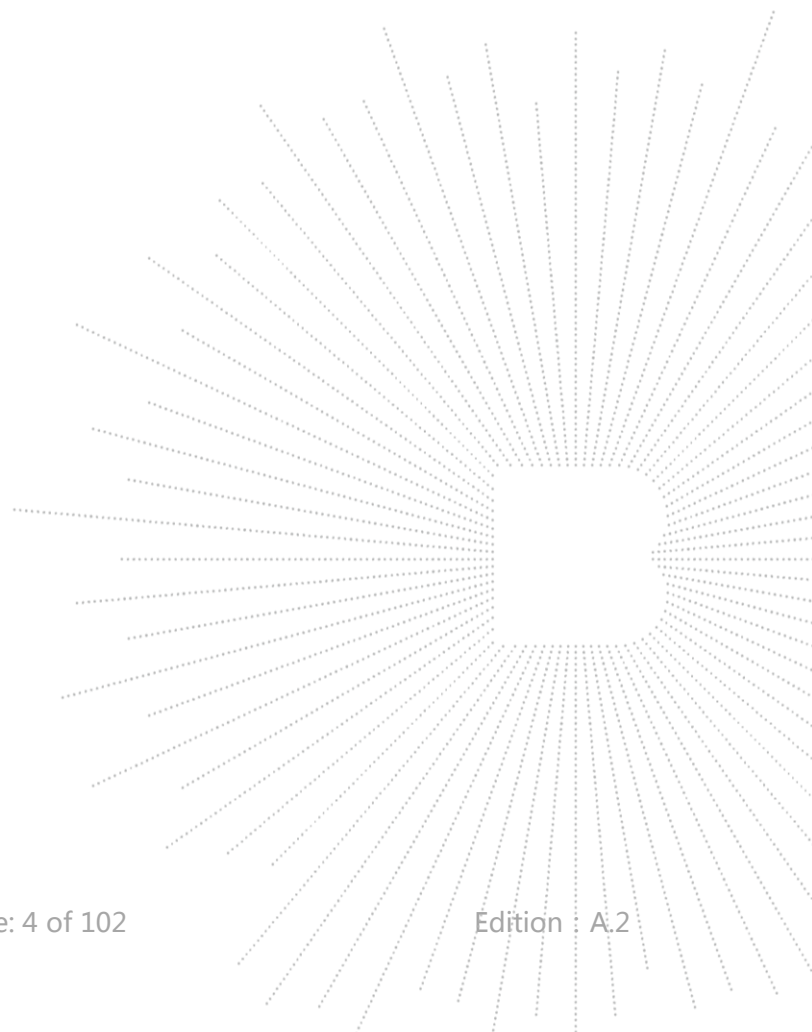
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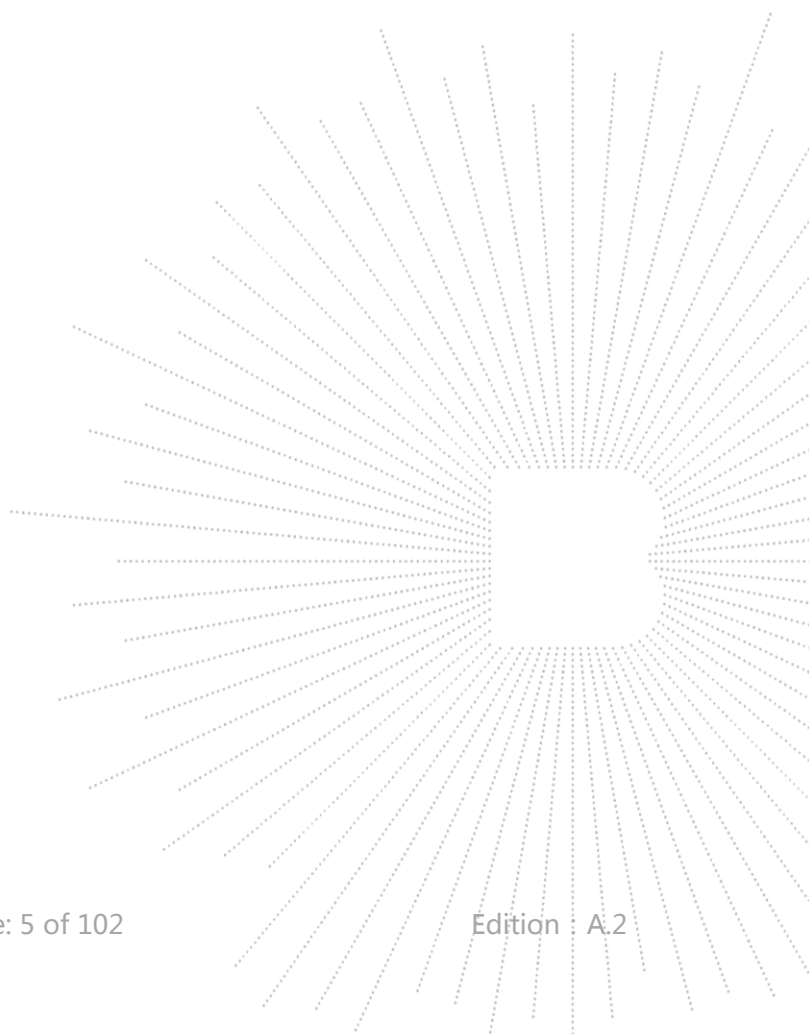
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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2011000488-4E	Nov. 26, 2020	Original	Valid



2. TEST SUMMARY

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(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

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(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59°C

4. PRODUCT INFORMATION AND TEST SETUP

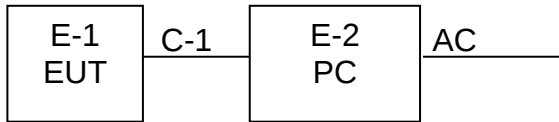
4.1 Product Information

Model/Type Ref.:	AAWireless-001
Model differences:	N/A
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(HT20)/ac20; 5190-5230MHz for 802.11n(HT40)/ac40; 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20)/ac20; 5755-5795 MHz for 802.11a/n(HT40)/ac40; 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-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Number Of Channel	4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band ;
Antenna installation:	Chip antenna
Antenna Gain:	1dBi
Ratings:	DC 5V

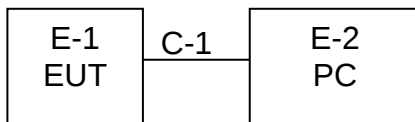
4.2 Test Setup Configuration

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.	Data Cable	Power Cord
E-1	AAWireless	N/A	AAWireless-001	N/A	EUT	E-1
E-2	PC	Lenovo	Thinkpad S2	N/A	Auxiliary	E-2

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.3M	DC cable unshielded

Notes:

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

4.4 Channel List

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

802.11ac (80MHz) Carrier Frequency Channel	
Channel	Frequency (MHz)
42	5210

Frequency and Channel list for 802.11a/n/ac(20 MHz) band IV (5745-5825MHz):

802.11a/n/ac(20 MHz) 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 40MHz Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac 80MHz Carrier Frequency Channel	
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 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 5	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165

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: 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

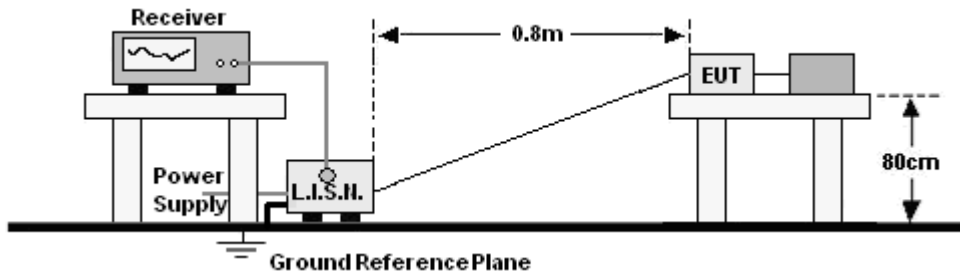
Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021
LISN	R&S	ENV216	101375	Jun. 04, 2020	Jun. 03, 2021
ISN	HPX	ISN T800	S1509001	Jun. 04, 2020	Jun. 03, 2021
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06, 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021
Receiver	R&S	ESRP	101154	Jun. 08, 2020	Jun. 07, 2021
Amplifier	Schwarzbeck	BBV9718	9718-309	Jun. 04, 2020	Jun. 03, 2021
Amplifier	Schwarzbeck	BBV9744	9744-003 7	Jun. 04, 2020	Jun. 03, 2021
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB916 3-942	Jun. 08, 2020	Jun. 07, 2021
Horn Antenna	SCHWARZB ECK	BBHA9120 D	1201	Jun. 10, 2020	Jun. 09, 2021
Horn Antenna (18GHz-40GHz)	SCHWARZB ECK	BBHA917 0	822	Jun. 10, 2020	Jun. 09, 2021
Amplifier (18GHz-40GHz)	MITEQ	TTA1840- 35-HG	2034381	Jun. 08, 2020	Jun. 07, 2021
Loop Antenna (9kHz-30MHz)	SCHWARZB ECK	FMZB151 9B	014	Jun. 08, 2020	Jun. 07, 2021
RF cables1 (9kHz-30MHz)	Huber+Suhn ar	9kHz-30M Hz	B170298 8-0008	Jun. 08, 2020	Jun. 07, 2021
RF cables2 (30MHz-1GHz)	Huber+Suhn ar	30MHz-1G Hz	1486150	Jun. 08, 2020	Jun. 07, 2021
RF cables3 (1GHz-40GHz)	Huber+Suhn ar	1GHz-40G Hz	1607106	Jun. 08, 2020	Jun. 07, 2021
Power Metter	Keysight	E4419B	\	Jun. 08, 2020	Jun. 07, 2021
Power Sensor (AV)	Keysight	E9 300A	\	Jun. 08, 2020	Jun. 07, 2021
Signal Analyzer 20kHz-26.5GHz	KEYSIGHT	N9020A	MY4910 0060	Jun. 04, 2020	Jun. 03, 2021
Spectrum Analyzer 9kHz-40GHz	Agilent	FSP40	100363	Jun. 13, 2020	Jun. 12, 2021
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

RF conducted test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419B	\	Jun. 08, 2020	Jun. 07, 2021
Power Sensor (AV)	Keysight	E9 300A	\	Jun. 08, 2020	Jun. 07, 2021
Signal Analyzer 20kHz-26.5GHz	KEYSIGHT	N9020A	MY4910006 0	Jun. 04, 2020	Jun. 03, 2021
Spectrum Analyzer 9kHz-40GHz	Agilent	FSP40	100363	Jun. 13, 2020	Jun. 12, 2021

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

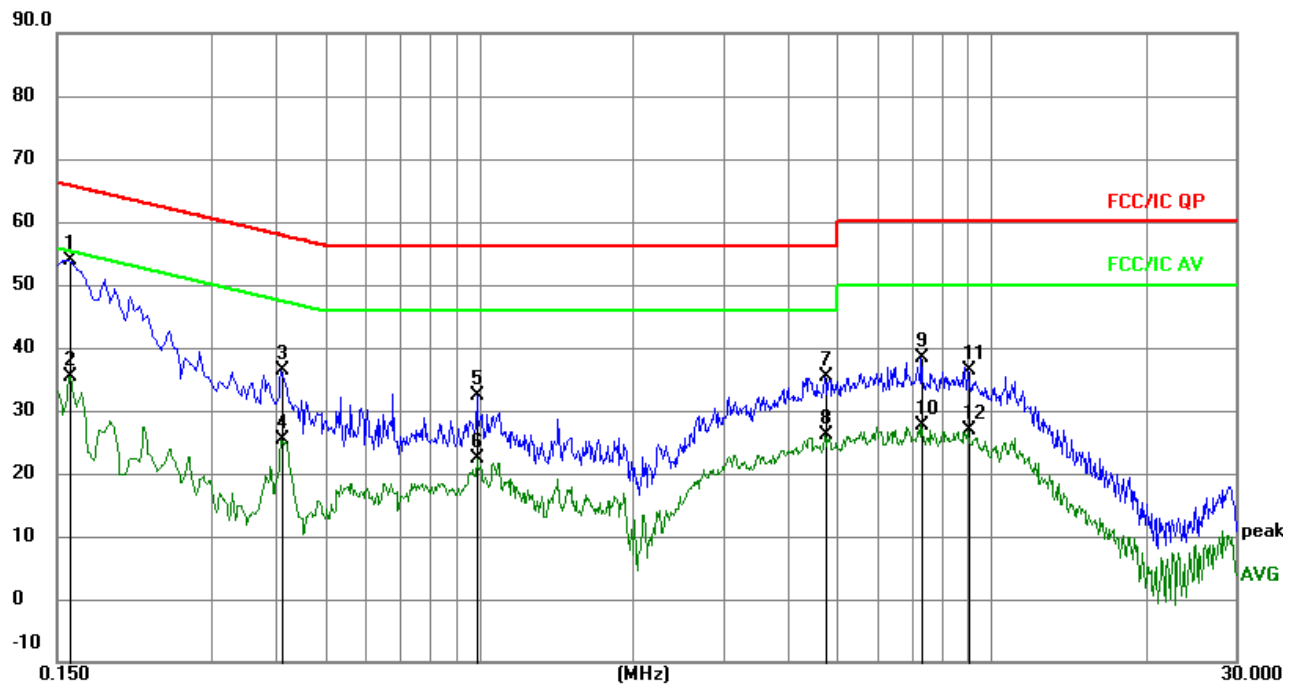
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak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

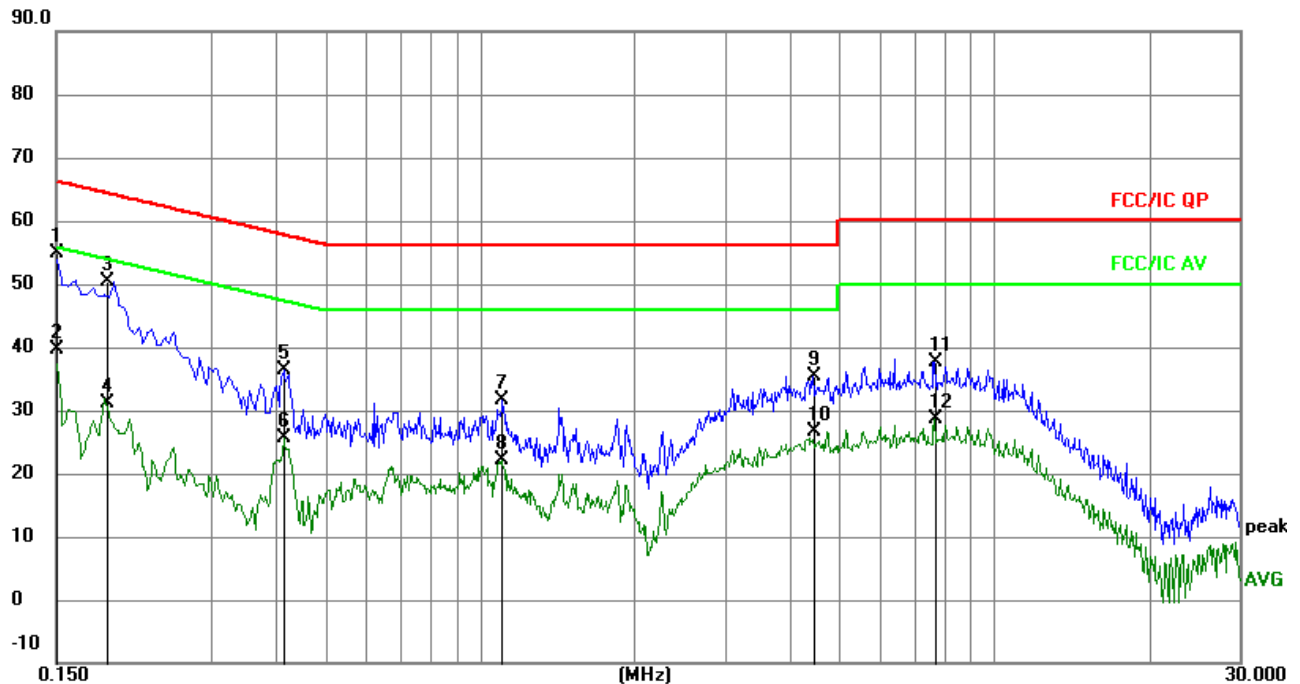


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1590	44.43	9.51	53.94	65.52	-11.58	QP
2		0.1590	25.81	9.51	35.32	55.52	-20.20	AVG
3		0.4110	26.88	9.51	36.39	57.63	-21.24	QP
4		0.4110	15.81	9.51	25.32	47.63	-22.31	AVG
5		0.9914	22.87	9.57	32.44	56.00	-23.56	QP
6		0.9914	12.90	9.57	22.47	46.00	-23.53	AVG
7		4.7399	25.69	9.78	35.47	56.00	-20.53	QP
8		4.7399	16.33	9.78	26.11	46.00	-19.89	AVG
9		7.3275	28.64	9.72	38.36	60.00	-21.64	QP
10		7.3275	18.03	9.72	27.75	50.00	-22.25	AVG
11		9.0330	26.64	9.70	36.34	60.00	-23.66	QP
12		9.0330	17.24	9.70	26.94	50.00	-23.06	AVG

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



Remark:

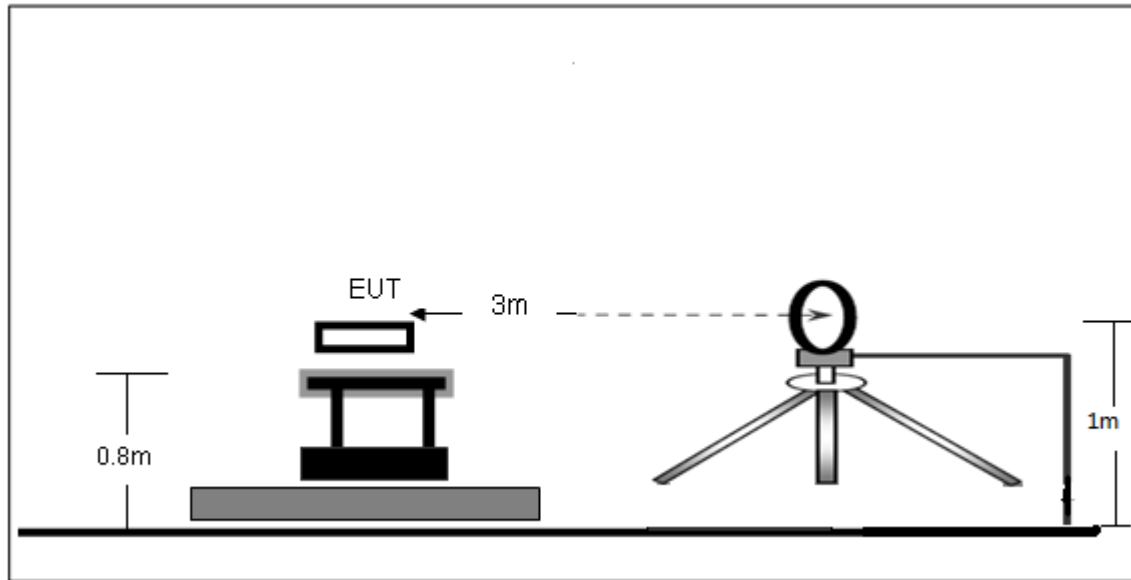
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1500	45.44	9.52	54.96	66.00	-11.04	QP
2		0.1500	30.08	9.52	39.60	56.00	-16.40	AVG
3		0.1874	40.87	9.48	50.35	64.15	-13.80	QP
4		0.1874	21.55	9.48	31.03	54.15	-23.12	AVG
5		0.4155	26.77	9.51	36.28	57.54	-21.26	QP
6		0.4155	16.08	9.51	25.59	47.54	-21.95	AVG
7		1.1040	22.07	9.57	31.64	56.00	-24.36	QP
8		1.1040	12.46	9.57	22.03	46.00	-23.97	AVG
9		4.4475	25.65	9.76	35.41	56.00	-20.59	QP
10		4.4475	16.85	9.76	26.61	46.00	-19.39	AVG
11		7.6470	28.02	9.71	37.73	60.00	-22.27	QP
12		7.6470	18.90	9.71	28.61	50.00	-21.39	AVG

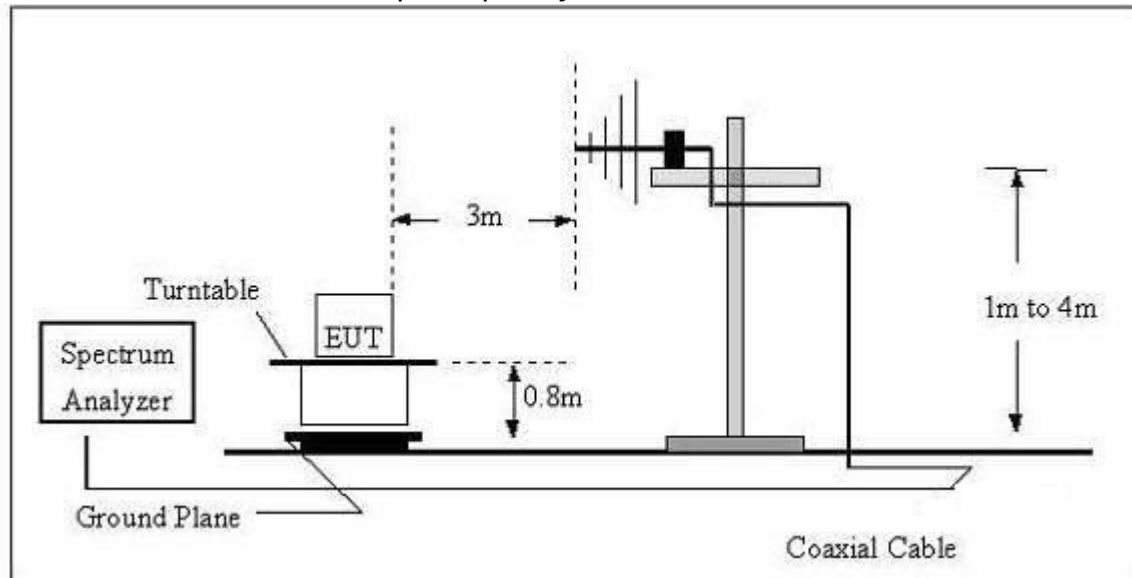
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

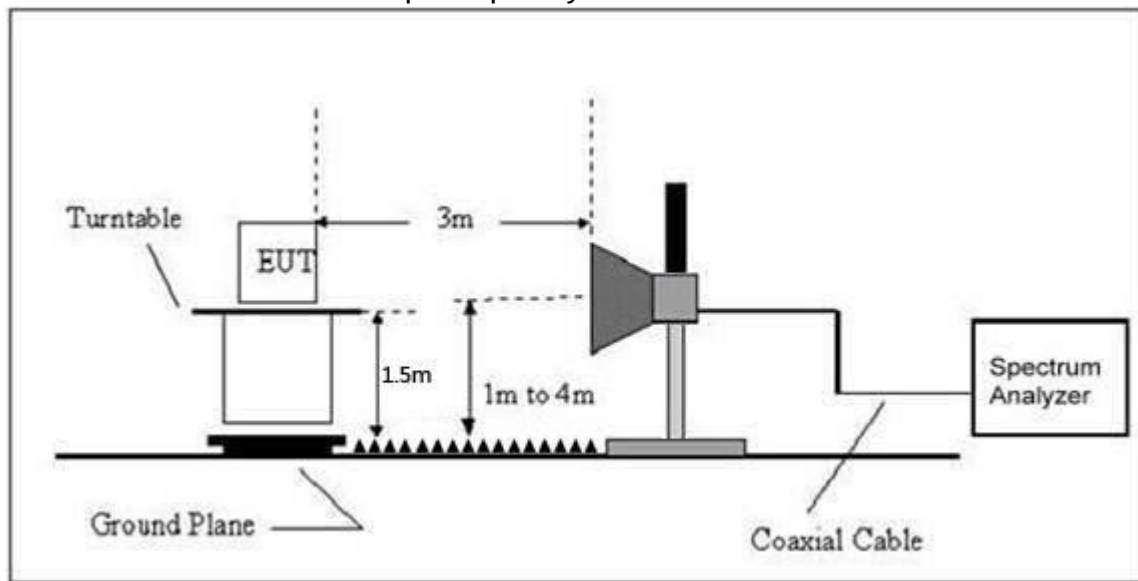
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2 Limit

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

Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

7.3 Test procedure

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

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

It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

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

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

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

Note:

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

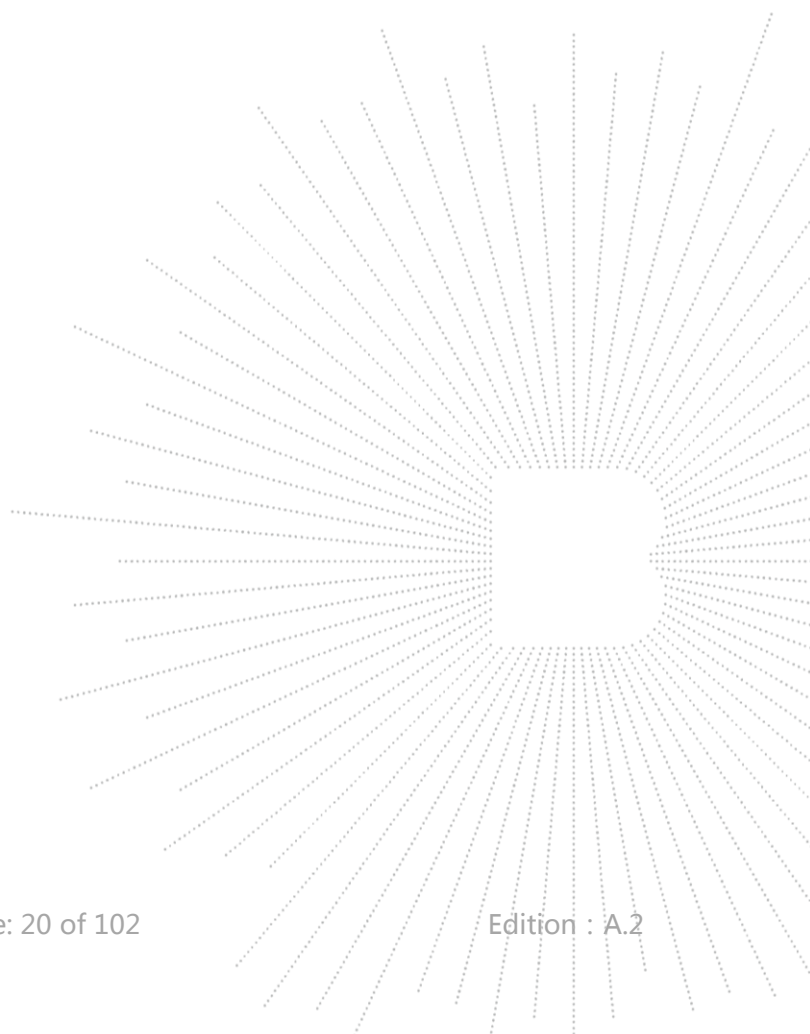
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

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

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

7.4 EUT operating Conditions

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



7.5 Test Result

Below 30MHz

Temperature:	26℃	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage :	DC 5V
Test Mode :	Mode 4	Polarization :	--

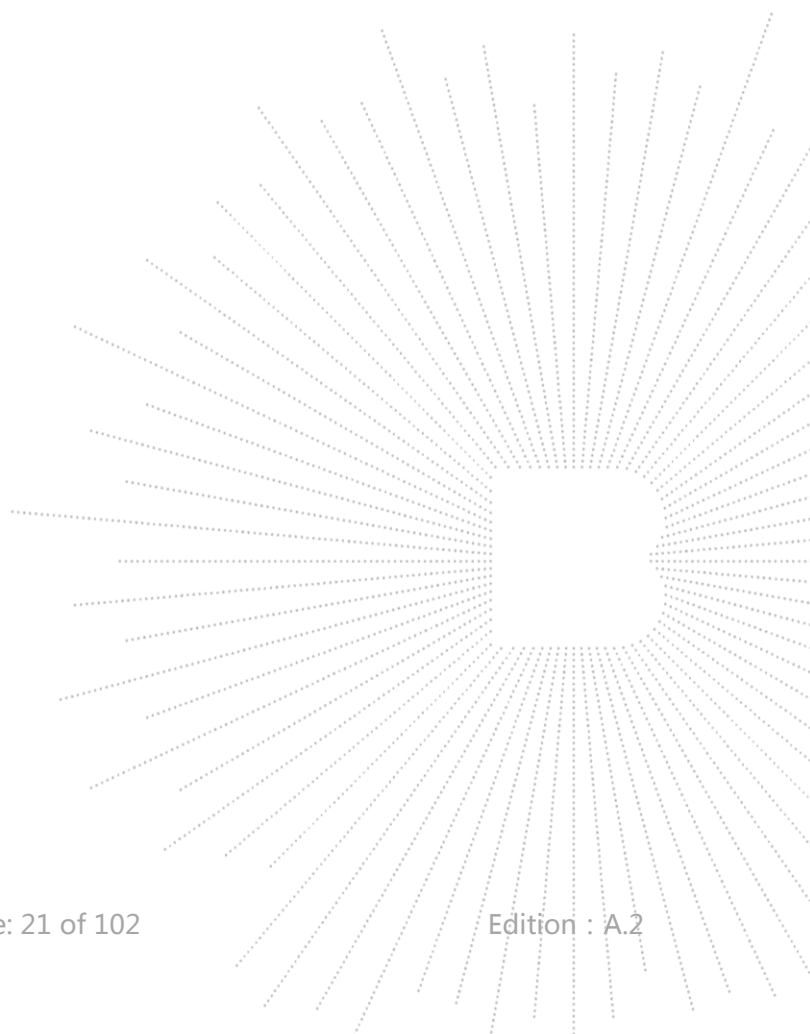
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

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

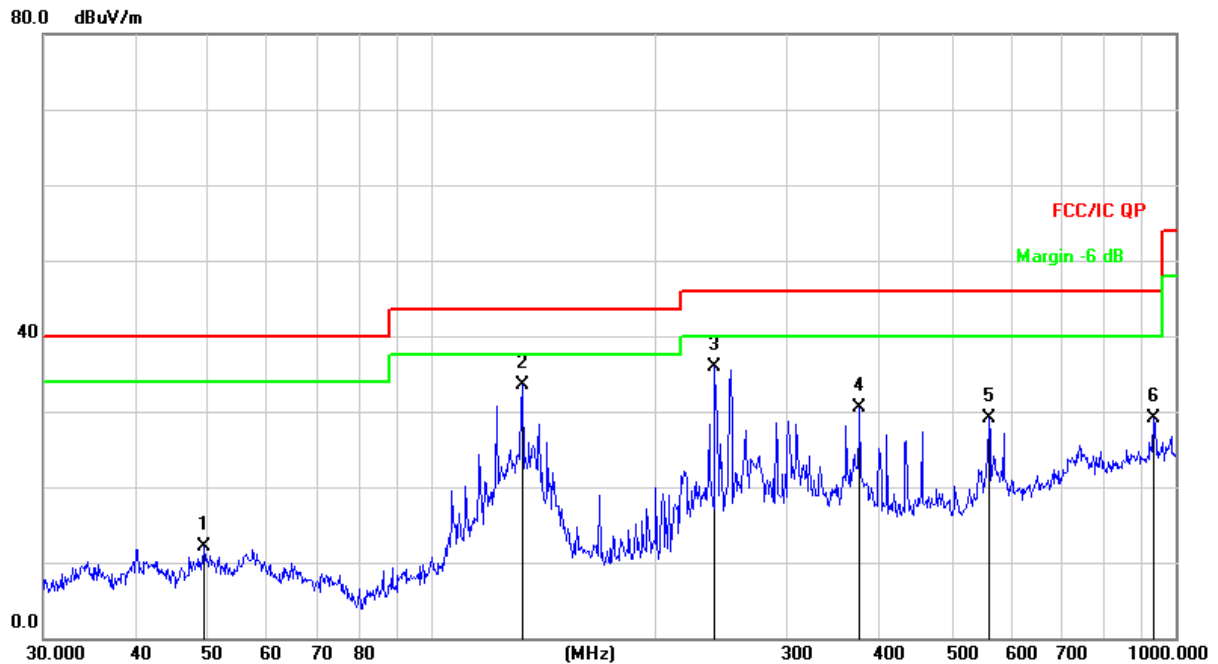
Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

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



Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	DC 5V
Test Mode :	Mode 4	Polarization :	Horizontal

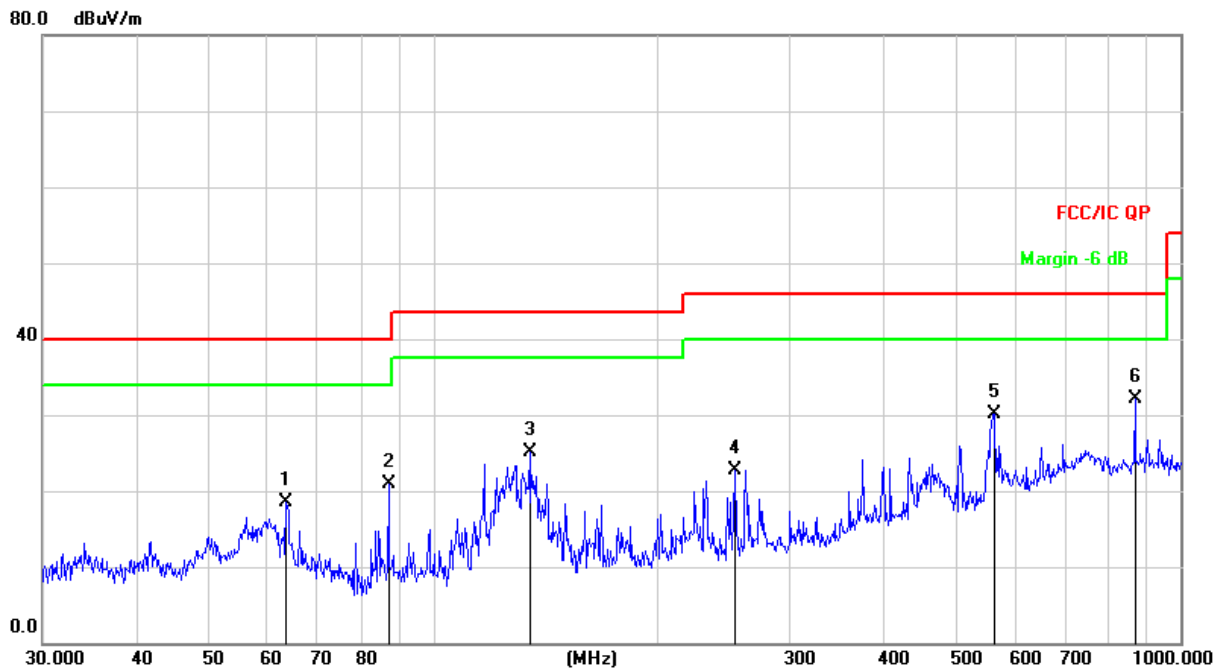


Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		49.3594	26.17	-14.14	12.03	40.00	-27.97	QP
2	*	132.2206	50.97	-17.56	33.41	43.50	-10.09	QP
3		239.9874	50.25	-14.44	35.81	46.00	-10.19	QP
4		375.9385	40.76	-10.35	30.41	46.00	-15.59	QP
5		560.6928	35.17	-6.04	29.13	46.00	-16.87	QP
6		932.2715	29.41	-0.36	29.05	46.00	-16.95	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	DC 5V
Test Mode :	Mode 4	Polarization :	Vertical



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		63.5356	34.09	-15.57	18.52	40.00	-21.48	QP
2		87.1117	39.07	-18.07	21.00	40.00	-19.00	QP
3		134.5592	42.85	-17.71	25.14	43.50	-18.36	QP
4		252.9482	36.89	-14.12	22.77	46.00	-23.23	QP
5		562.6624	36.16	-5.99	30.17	46.00	-15.83	QP
6	*	869.1302	32.69	-0.61	32.08	46.00	-13.92	QP

Between 1GHz – 40GHz

Test Mode :	TX(5.1G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.191	61.62	5.94	35.40	44.00	58.96	68.20	-9.24	PK
V	4434.191	43.62	5.94	35.40	44.00	40.96	54.00	-13.04	AV
V	10360.123	62.71	8.46	39.75	44.50	66.42	74.00	-7.58	PK
V	10360.123	43.21	8.46	39.75	44.50	46.92	54.00	-7.08	AV
V	15540.149	64.22	10.12	38.80	44.10	69.04	74.00	-4.96	PK
V	15540.149	43.87	10.12	38.80	42.70	50.09	54.00	-3.91	AV
H	4434.132	63.15	5.94	35.18	44.00	60.27	68.20	-7.93	PK
H	4434.132	43.94	5.94	35.18	44.00	41.06	54.00	-12.94	AV
H	10360.185	50.54	8.46	38.71	44.50	53.21	74.00	-20.79	PK
H	10360.185	40.85	8.46	38.71	44.50	43.52	54.00	-10.48	AV
H	15540.172	53.67	10.12	38.38	44.10	58.07	74.00	-15.93	PK
H	15540.172	42.01	10.12	38.38	44.10	46.41	54.00	-7.59	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.180	61.31	6.48	36.35	44.05	60.09	74.00	-13.91	PK
V	4592.180	43.65	6.48	36.35	44.05	42.43	54.00	-11.57	AV
V	10400.038	61.34	8.47	37.88	44.51	63.18	68.20	-5.02	PK
V	10400.038	43.40	8.47	37.88	44.51	45.24	54.00	-8.76	AV
V	15600.059	62.33	10.12	38.80	44.10	67.15	74.00	-6.85	PK
V	15600.059	43.54	10.12	38.80	42.70	49.76	54.00	-4.24	AV
H	4592.165	61.60	6.48	36.37	44.05	60.40	74.00	-13.60	PK
H	4592.165	43.60	6.48	36.37	44.05	42.40	54.00	-11.60	AV
H	10400.036	54.13	8.47	38.64	44.50	56.74	68.20	-11.46	PK
H	10400.036	41.99	8.47	38.64	44.50	44.60	54.00	-9.40	AV
H	15600.020	50.60	10.12	38.38	44.10	55.00	74.00	-19.00	PK
H	15600.020	44.25	10.12	38.38	44.10	48.65	54.00	-5.35	AV
High Channel (5240 MHz)-Above 1G									
V	4739.187	64.15	7.10	37.24	43.50	64.99	74.00	-9.01	PK
V	4739.187	43.23	7.10	37.24	43.50	44.07	54.00	-9.93	AV
V	10480.017	61.02	8.46	37.68	44.50	62.66	68.20	-5.54	PK
V	10480.017	43.59	8.46	37.68	44.50	45.23	54.00	-8.77	AV
V	15720.102	61.96	10.12	38.80	44.10	66.78	74.00	-7.22	PK
V	15720.102	43.37	10.12	38.80	42.70	49.59	54.00	-4.41	AV
H	4739.187	63.18	7.10	37.24	43.50	64.02	74.00	-9.98	PK
H	4739.187	43.06	7.10	37.24	43.50	43.90	54.00	-10.10	AV
H	10480.156	51.71	8.46	38.57	44.50	54.24	68.20	-13.96	PK
H	10480.156	42.34	8.46	38.57	44.50	44.87	54.00	-9.13	AV
H	15720.196	50.02	10.12	38.38	44.10	54.42	74.00	-19.58	PK
H	15720.196	40.73	10.12	38.38	44.10	45.13	54.00	-8.87	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(5.1G) - 802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.114	60.86	5.94	35.40	44.00	58.20	68.20	-10.00	PK
V	4434.114	43.31	5.94	35.40	44.00	40.65	54.00	-13.35	AV
V	10360.042	63.99	8.46	39.75	44.50	67.70	68.20	-0.50	PK
V	10360.042	43.89	8.46	39.75	44.50	47.60	54.00	-6.40	AV
V	15540.143	63.82	10.12	38.80	44.10	68.64	74.00	-5.36	PK
V	15540.143	43.19	10.12	38.80	42.70	49.41	54.00	-4.59	AV
H	4434.196	64.99	5.94	35.18	44.00	62.11	68.20	-6.09	PK
H	4434.196	43.77	5.94	35.18	44.00	40.89	54.00	-13.11	AV
H	10360.169	54.92	8.46	38.71	44.50	57.59	68.20	-10.61	PK
H	10360.169	42.05	8.46	38.71	44.50	44.72	54.00	-9.28	AV
H	15540.036	52.44	10.12	38.38	44.10	56.84	74.00	-17.16	PK
H	15540.036	42.17	10.12	38.38	44.10	46.57	54.00	-7.43	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.134	64.91	6.48	36.35	44.05	63.69	74.00	-10.31	PK
V	4592.134	43.29	6.48	36.35	44.05	42.07	54.00	-11.93	AV
V	10400.164	60.01	8.47	37.88	44.51	61.85	68.20	-6.35	PK
V	10400.164	43.68	8.47	37.88	44.51	45.52	54.00	-8.48	AV
V	15600.061	61.21	10.12	38.80	44.10	66.03	74.00	-7.97	PK
V	15600.061	43.53	10.12	38.80	42.70	49.75	54.00	-4.25	AV
H	4592.180	61.52	6.48	36.37	44.05	60.32	74.00	-13.68	PK
H	4592.180	43.16	6.48	36.37	44.05	41.96	54.00	-12.04	AV
H	10400.157	54.48	8.47	38.64	44.50	57.09	68.20	-11.11	PK
H	10400.157	41.46	8.47	38.64	44.50	44.07	54.00	-9.93	AV
H	15600.051	52.65	10.12	38.38	44.10	57.05	74.00	-16.95	PK
H	15600.051	40.27	10.12	38.38	44.10	44.67	54.00	-9.33	AV
High Channel (5240 MHz)-Above 1G									
V	4739.121	64.56	7.10	37.24	43.50	65.40	74.00	-8.60	PK
V	4739.121	43.34	7.10	37.24	43.50	44.18	54.00	-9.82	AV
V	10480.031	60.67	8.46	37.68	44.50	62.31	68.20	-5.89	PK
V	10480.031	43.18	8.46	37.68	44.50	44.82	54.00	-9.18	AV
V	15720.156	61.52	10.12	38.80	44.10	66.34	74.00	-7.66	PK
V	15720.156	43.70	10.12	38.80	42.70	49.92	54.00	-4.08	AV
H	4739.128	61.10	7.10	37.24	43.50	61.94	74.00	-12.06	PK
H	4739.128	43.32	7.10	37.24	43.50	44.16	54.00	-9.84	AV
H	10480.161	50.16	8.46	38.57	44.50	52.69	68.20	-15.51	PK
H	10480.161	40.01	8.46	38.57	44.50	42.54	54.00	-11.46	AV
H	15720.188	53.37	10.12	38.38	44.10	57.77	74.00	-16.23	PK
H	15720.188	42.96	10.12	38.38	44.10	47.36	54.00	-6.64	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)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.003	60.18	5.94	35.40	44.00	57.52	74.00	-16.48	PK
V	4434.003	43.17	5.94	35.40	44.00	40.51	54.00	-13.49	AV
V	10380.183	62.37	8.46	39.75	44.50	66.08	68.20	-2.12	PK
V	10380.183	43.91	8.46	39.75	44.50	47.62	54.00	-6.38	AV
V	15570.198	60.07	10.12	38.80	44.10	64.89	74.00	-9.11	PK
V	15570.198	43.66	10.12	38.80	42.70	49.88	54.00	-4.12	AV
H	4434.162	63.11	5.94	35.18	44.00	60.23	74.00	-13.77	PK
H	4434.162	43.81	5.94	35.18	44.00	40.93	54.00	-13.07	AV
H	10380.062	54.50	8.46	38.71	44.50	57.17	68.20	-11.03	PK
H	10380.062	43.61	8.46	38.71	44.50	46.28	54.00	-7.72	AV
H	15570.079	53.82	10.12	38.38	44.10	58.22	74.00	-15.78	PK
H	15570.079	43.32	10.12	38.38	44.10	47.72	54.00	-6.28	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.031	62.75	6.48	36.35	44.05	61.53	74.00	-12.47	PK
V	4739.031	43.30	6.48	36.35	44.05	42.08	54.00	-11.92	AV
V	10460.146	63.04	8.47	37.88	44.51	64.88	68.20	-3.32	PK
V	10460.146	43.95	8.47	37.88	44.51	45.79	54.00	-8.21	AV
V	15690.038	61.19	10.12	38.80	44.10	66.01	74.00	-7.99	PK
V	15690.038	43.36	10.12	38.80	42.70	49.58	54.00	-4.42	AV
H	4739.092	62.63	6.48	36.37	44.05	61.43	74.00	-12.57	PK
H	4739.092	43.46	6.48	36.37	44.05	42.26	54.00	-11.74	AV
H	10460.116	51.45	8.47	38.64	44.50	54.06	68.20	-14.14	PK
H	10460.116	42.17	8.47	38.64	44.50	44.78	54.00	-9.22	AV
H	15690.028	51.18	10.12	38.38	44.10	55.58	74.00	-18.42	PK
H	15690.028	44.46	10.12	38.38	44.10	48.86	54.00	-5.14	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(5.1G) - 802.11 AC20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.140	62.14	5.94	35.40	44.00	59.48	68.20	-8.72	PK
V	4434.140	43.25	5.94	35.40	44.00	40.59	54.00	-13.41	AV
V	10360.028	60.83	8.46	39.75	44.50	64.54	68.20	-3.66	PK
V	10360.028	43.06	8.46	39.75	44.50	46.77	54.00	-7.23	AV
V	15540.053	61.78	10.12	38.80	44.10	66.60	74.00	-7.40	PK
V	15540.053	43.38	10.12	38.80	42.70	49.60	54.00	-4.40	AV
H	4434.192	60.45	5.94	35.18	44.00	57.57	68.20	-10.63	PK
H	4434.192	43.64	5.94	35.18	44.00	40.76	54.00	-13.24	AV
H	10360.019	53.67	8.46	38.71	44.50	56.34	68.20	-11.86	PK
H	10360.019	40.13	8.46	38.71	44.50	42.80	54.00	-11.20	AV
H	15540.065	50.79	10.12	38.38	44.10	55.19	74.00	-18.81	PK
H	15540.065	40.22	10.12	38.38	44.10	44.62	54.00	-9.38	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.162	60.93	6.48	36.35	44.05	59.71	74.00	-14.29	PK
V	4592.162	43.82	6.48	36.35	44.05	42.60	54.00	-11.40	AV
V	10400.022	61.14	8.47	37.88	44.51	62.98	68.20	-5.22	PK
V	10400.022	43.06	8.47	37.88	44.51	44.90	54.00	-9.10	AV
V	15600.174	63.32	10.12	38.80	44.10	68.14	74.00	-5.86	PK
V	15600.174	43.31	10.12	38.80	42.70	49.53	54.00	-4.47	AV
H	4592.156	63.31	6.48	36.37	44.05	62.11	74.00	-11.89	PK
H	4592.156	43.76	6.48	36.37	44.05	42.56	54.00	-11.44	AV
H	10400.151	53.94	8.47	38.64	44.50	56.55	68.20	-11.65	PK
H	10400.151	42.68	8.47	38.64	44.50	45.29	54.00	-8.71	AV
H	15600.148	54.76	10.12	38.38	44.10	59.16	74.00	-14.84	PK
H	15600.148	42.20	10.12	38.38	44.10	46.60	54.00	-7.40	AV
High Channel (5240 MHz)-Above 1G									
V	4739.150	61.28	7.10	37.24	43.50	62.12	74.00	-11.88	PK
V	4739.150	43.61	7.10	37.24	43.50	44.45	54.00	-9.55	AV
V	10480.126	60.90	8.46	37.68	44.50	62.54	68.20	-5.66	PK
V	10480.126	43.37	8.46	37.68	44.50	45.01	54.00	-8.99	AV
V	15720.142	62.18	10.12	38.80	44.10	67.00	74.00	-7.00	PK
V	15720.142	43.55	10.12	38.80	42.70	49.77	54.00	-4.23	AV
H	4739.197	64.85	7.10	37.24	43.50	65.69	74.00	-8.31	PK
H	4739.197	43.97	7.10	37.24	43.50	44.81	54.00	-9.19	AV
H	10480.191	50.60	8.46	38.57	44.50	53.13	68.20	-15.07	PK
H	10480.191	40.38	8.46	38.57	44.50	42.91	54.00	-11.09	AV
H	15720.094	53.17	10.12	38.38	44.10	57.57	74.00	-16.43	PK
H	15720.094	42.64	10.12	38.38	44.10	47.04	54.00	-6.96	AV

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

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

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

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

Test Mode :	TX(5.1G) - 802.11 AC40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.164	64.84	5.94	35.40	44.00	62.18	74.00	-11.82	PK
V	4434.164	43.53	5.94	35.40	44.00	40.87	54.00	-13.13	AV
V	10380.139	62.22	8.46	39.75	44.50	65.93	68.20	-2.27	PK
V	10380.139	43.73	8.46	39.75	44.50	47.44	54.00	-6.56	AV
V	15570.012	63.79	10.12	38.80	44.10	68.61	74.00	-5.39	PK
V	15570.012	43.31	10.12	38.80	42.70	49.53	54.00	-4.47	AV
H	4434.170	62.12	5.94	35.18	44.00	59.24	74.00	-14.76	PK
H	4434.170	43.53	5.94	35.18	44.00	40.65	54.00	-13.35	AV
H	10380.191	51.74	8.46	38.71	44.50	54.41	68.20	-13.79	PK
H	10380.191	40.95	8.46	38.71	44.50	43.62	54.00	-10.38	AV
H	15570.090	52.21	10.12	38.38	44.10	56.61	74.00	-17.39	PK
H	15570.090	44.50	10.12	38.38	44.10	48.90	54.00	-5.10	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.083	64.70	6.48	36.35	44.05	63.48	74.00	-10.52	PK
V	4739.083	43.30	6.48	36.35	44.05	42.08	54.00	-11.92	AV
V	10460.134	64.68	8.47	37.88	44.51	66.52	68.20	-1.68	PK
V	10460.134	43.90	8.47	37.88	44.51	45.74	54.00	-8.26	AV
V	15690.166	64.70	10.12	38.80	44.10	69.52	74.00	-4.48	PK
V	15690.166	43.15	10.12	38.80	42.70	49.37	54.00	-4.63	AV
H	4739.185	63.79	6.48	36.37	44.05	62.59	74.00	-11.41	PK
H	4739.185	43.34	6.48	36.37	44.05	42.14	54.00	-11.86	AV
H	10460.174	51.28	8.47	38.64	44.50	53.89	68.20	-14.31	PK
H	10460.174	40.73	8.47	38.64	44.50	43.34	54.00	-10.66	AV
H	15690.085	50.62	10.12	38.38	44.10	55.02	74.00	-18.98	PK
H	15690.085	40.01	10.12	38.38	44.10	44.41	54.00	-9.59	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.

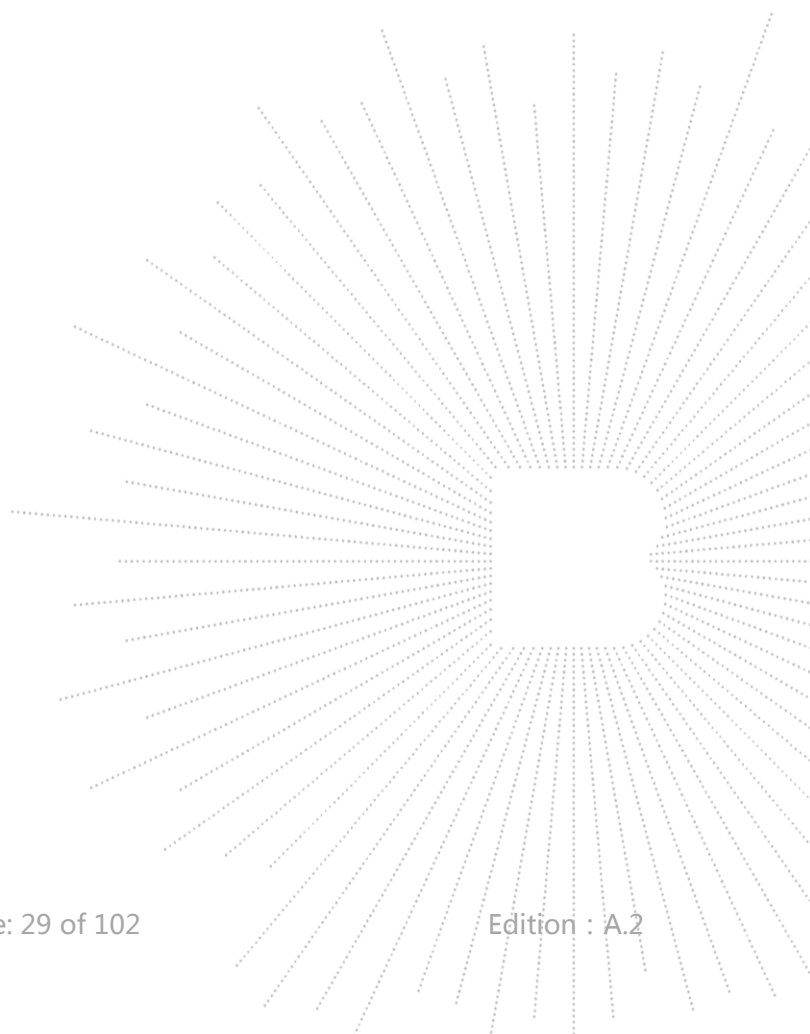
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Test Mode :	TX(5.1G) - 802.11 AC80
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5210 MHz)-Above 1G									
V	4434.023	61.76	5.94	35.40	44.00	59.10	74.00	-14.90	PK
V	4434.023	43.36	5.94	35.40	44.00	40.70	54.00	-13.30	AV
V	10420.103	62.60	8.46	39.75	44.50	66.31	68.20	-1.89	PK
V	10420.103	43.78	8.46	39.75	44.50	47.49	54.00	-6.51	AV
V	15630.031	60.57	10.12	38.80	44.10	65.39	74.00	-8.61	PK
V	15630.031	43.67	10.12	38.80	42.70	49.89	54.00	-4.11	AV
H	4434.118	60.28	5.94	35.18	44.00	57.40	74.00	-16.60	PK
H	4434.118	43.05	5.94	35.18	44.00	40.17	54.00	-13.83	AV
H	10420.110	53.05	8.46	38.71	44.50	55.72	68.20	-12.48	PK
H	10420.110	44.23	8.46	38.71	44.50	46.90	54.00	-7.10	AV
H	15630.174	52.18	10.12	38.38	44.10	56.58	74.00	-17.42	PK
H	15630.174	42.04	10.12	38.38	44.10	46.44	54.00	-7.56	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 (5.8G) -- 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.053	62.34	5.94	35.40	44.00	59.68	74.00	-14.32	PK
V	4679.053	43.50	5.94	35.40	44.00	40.84	54.00	-13.16	AV
V	11490.107	60.64	8.46	39.75	44.50	64.35	68.20	-3.85	PK
V	11490.107	43.04	8.46	39.75	44.50	46.75	54.00	-7.25	AV
V	17235.005	63.31	10.12	38.80	44.10	68.13	74.00	-5.87	PK
V	17235.005	43.48	10.12	38.80	42.70	49.70	54.00	-4.30	AV
H	4679.053	61.02	5.94	35.18	44.00	58.14	74.00	-15.86	PK
H	4679.053	43.25	5.94	35.18	44.00	40.37	54.00	-13.63	AV
H	11490.118	50.51	8.46	38.71	44.50	53.18	68.20	-15.02	PK
H	11490.118	43.89	8.46	38.71	44.50	46.56	54.00	-7.44	AV
H	17235.106	53.79	10.12	38.38	44.10	58.19	74.00	-15.81	PK
H	17235.106	44.32	10.12	38.38	44.10	48.72	54.00	-5.28	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.167	64.88	6.48	36.35	44.05	63.66	74.00	-10.34	PK
V	4592.167	43.59	6.48	36.35	44.05	42.37	54.00	-11.63	AV
V	11570.123	60.77	8.47	37.88	44.51	62.61	68.20	-5.59	PK
V	11570.123	43.03	8.47	37.88	44.51	44.87	54.00	-9.13	AV
V	17355.048	61.65	10.12	38.80	44.10	66.47	74.00	-7.53	PK
V	17355.048	43.07	10.12	38.80	42.70	49.29	54.00	-4.71	AV
H	4592.002	61.44	6.48	36.37	44.05	60.24	74.00	-13.76	PK
H	4592.002	43.90	6.48	36.37	44.05	42.70	54.00	-11.30	AV
H	11570.164	52.11	8.47	38.64	44.50	54.72	68.20	-13.48	PK
H	11570.164	42.92	8.47	38.64	44.50	45.53	54.00	-8.47	AV
H	17355.027	50.28	10.12	38.38	44.10	54.68	74.00	-19.32	PK
H	17355.027	41.45	10.12	38.38	44.10	45.85	54.00	-8.15	AV
High Channel (5825 MHz)-Above 1G									
V	6039.067	60.52	7.10	37.24	43.50	61.36	68.20	-6.84	PK
V	6039.067	43.57	7.10	37.24	43.50	44.41	54.00	-9.59	AV
V	11650.133	62.81	8.46	37.68	44.50	64.45	74.00	-9.55	PK
V	11650.133	43.26	8.46	37.68	44.50	44.90	54.00	-9.10	AV
V	17475.082	64.48	10.12	38.80	44.10	69.30	68.20	1.10	PK
V	17475.082	43.32	10.12	38.80	42.70	49.54	54.00	-4.46	AV
H	6039.176	62.09	7.10	37.24	43.50	62.93	68.20	-5.27	PK
H	6039.176	43.85	7.10	37.24	43.50	44.69	54.00	-9.31	AV
H	11650.193	53.40	8.46	38.57	44.50	55.93	74.00	-18.07	PK
H	11650.193	43.90	8.46	38.57	44.50	46.43	54.00	-7.57	AV
H	17475.036	51.15	10.12	38.38	44.10	55.55	68.20	-12.65	PK
H	17475.036	40.10	10.12	38.38	44.10	44.50	54.00	-9.50	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 (5.8G) --802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.013	64.85	5.94	35.40	44.00	62.19	74.00	-11.81	PK
V	4679.013	43.32	5.94	35.40	44.00	40.66	54.00	-13.34	AV
V	11490.035	63.42	8.46	39.75	44.50	67.13	68.20	-1.07	PK
V	11490.035	43.23	8.46	39.75	44.50	46.94	54.00	-7.06	AV
V	17235.147	63.49	10.12	38.80	44.10	68.31	74.00	-5.69	PK
V	17235.147	43.15	10.12	38.80	42.70	49.37	54.00	-4.63	AV
H	4679.179	62.09	5.94	35.18	44.00	59.21	74.00	-14.79	PK
H	4679.179	43.55	5.94	35.18	44.00	40.67	54.00	-13.33	AV
H	11490.028	51.53	8.46	38.71	44.50	54.20	68.20	-14.00	PK
H	11490.028	40.83	8.46	38.71	44.50	43.50	54.00	-10.50	AV
H	17235.151	54.95	10.12	38.38	44.10	59.35	74.00	-14.65	PK
H	17235.151	41.06	10.12	38.38	44.10	45.46	54.00	-8.54	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.126	62.33	6.48	36.35	44.05	61.11	74.00	-12.89	PK
V	4592.126	43.79	6.48	36.35	44.05	42.57	54.00	-11.43	AV
V	11570.154	60.25	8.47	37.88	44.51	62.09	68.20	-6.11	PK
V	11570.154	43.58	8.47	37.88	44.51	45.42	54.00	-8.58	AV
V	17355.080	60.18	10.12	38.80	44.10	65.00	74.00	-9.00	PK
V	17355.080	43.23	10.12	38.80	42.70	49.45	54.00	-4.55	AV
H	4592.117	61.79	6.48	36.37	44.05	60.59	74.00	-13.41	PK
H	4592.117	43.66	6.48	36.37	44.05	42.46	54.00	-11.54	AV
H	11570.090	52.21	8.47	38.64	44.50	54.82	68.20	-13.38	PK
H	11570.090	44.35	8.47	38.64	44.50	46.96	54.00	-7.04	AV
H	17355.037	54.90	10.12	38.38	44.10	59.30	74.00	-14.70	PK
H	17355.037	42.27	10.12	38.38	44.10	46.67	54.00	-7.33	AV
High Channel (5825 MHz)-Above 1G									
V	6039.174	64.84	7.10	37.24	43.50	65.68	68.20	-2.52	PK
V	6039.174	43.68	7.10	37.24	43.50	44.52	54.00	-9.48	AV
V	11650.015	62.26	8.46	37.68	44.50	63.90	74.00	-10.10	PK
V	11650.015	43.96	8.46	37.68	44.50	45.60	54.00	-8.40	AV
V	17475.046	63.86	10.12	38.80	44.10	68.68	68.20	0.48	PK
V	17475.046	43.69	10.12	38.80	42.70	49.91	54.00	-4.09	AV
H	6039.060	61.37	7.10	37.24	43.50	62.21	68.20	-5.99	PK
H	6039.060	43.04	7.10	37.24	43.50	43.88	54.00	-10.12	AV
H	11650.027	50.43	8.46	38.57	44.50	52.96	74.00	-21.04	PK
H	11650.027	43.41	8.46	38.57	44.50	45.94	54.00	-8.06	AV
H	17475.100	51.77	10.12	38.38	44.10	56.17	68.20	-12.03	PK
H	17475.100	43.41	10.12	38.38	44.10	47.81	54.00	-6.19	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 (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.137	61.50	5.94	35.40	44.00	58.84	74.00	-15.16	PK
V	4679.137	43.41	5.94	35.40	44.00	40.75	54.00	-13.25	AV
V	11510.150	61.49	8.46	39.75	44.50	65.20	68.20	-3.00	PK
V	11510.150	43.46	8.46	39.75	44.50	47.17	54.00	-6.83	AV
V	17265.052	64.86	10.12	38.80	44.10	69.68	74.00	-4.32	PK
V	17265.052	43.97	10.12	38.80	42.70	50.19	54.00	-3.81	AV
H	4679.142	64.27	5.94	35.18	44.00	61.39	74.00	-12.61	PK
H	4679.142	43.77	5.94	35.18	44.00	40.89	54.00	-13.11	AV
H	11510.158	53.57	8.46	38.71	44.50	56.24	68.20	-11.96	PK
H	11510.158	44.84	8.46	38.71	44.50	47.51	54.00	-6.49	AV
H	17265.097	54.53	10.12	38.38	44.10	58.93	74.00	-15.07	PK
H	17265.097	41.37	10.12	38.38	44.10	45.77	54.00	-8.23	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.061	63.25	6.48	36.35	44.05	62.03	68.20	-6.17	PK
V	6039.061	43.35	6.48	36.35	44.05	42.13	54.00	-11.87	AV
V	11590.115	60.90	8.47	37.88	44.51	62.74	74.00	-11.26	PK
V	11590.115	43.89	8.47	37.88	44.51	45.73	54.00	-8.27	AV
V	17385.154	60.10	10.12	38.80	44.10	64.92	68.20	-3.28	PK
V	17385.154	43.19	10.12	38.80	42.70	49.41	54.00	-4.59	AV
H	6039.179	62.94	6.48	36.37	44.05	61.74	68.20	-6.46	PK
H	6039.179	43.96	6.48	36.37	44.05	42.76	54.00	-11.24	AV
H	11590.185	52.70	8.47	38.64	44.50	55.31	74.00	-18.69	PK
H	11590.185	40.91	8.47	38.64	44.50	43.52	54.00	-10.48	AV
H	17385.152	52.44	10.12	38.38	44.10	56.84	68.20	-11.36	PK
H	17385.152	44.89	10.12	38.38	44.10	49.29	54.00	-4.71	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) --802.11AC20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.002	61.79	5.94	35.40	44.00	59.13	74.00	-14.87	PK
V	4679.002	43.34	5.94	35.40	44.00	40.68	54.00	-13.32	AV
V	11490.048	61.54	8.46	39.75	44.50	65.25	68.20	-2.95	PK
V	11490.048	43.70	8.46	39.75	44.50	47.41	54.00	-6.59	AV
V	17235.061	61.69	10.12	38.80	44.10	66.51	74.00	-7.49	PK
V	17235.061	43.62	10.12	38.80	42.70	49.84	54.00	-4.16	AV
H	4679.113	62.22	5.94	35.18	44.00	59.34	74.00	-14.66	PK
H	4679.113	43.49	5.94	35.18	44.00	40.61	54.00	-13.39	AV
H	11490.182	54.27	8.46	38.71	44.50	56.94	68.20	-11.26	PK
H	11490.182	43.35	8.46	38.71	44.50	46.02	54.00	-7.98	AV
H	17235.171	51.91	10.12	38.38	44.10	56.31	74.00	-17.69	PK
H	17235.171	41.11	10.12	38.38	44.10	45.51	54.00	-8.49	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.099	61.44	6.48	36.35	44.05	60.22	74.00	-13.78	PK
V	4592.099	43.12	6.48	36.35	44.05	41.90	54.00	-12.10	AV
V	11570.127	62.04	8.47	37.88	44.51	63.88	68.20	-4.32	PK
V	11570.127	43.54	8.47	37.88	44.51	45.38	54.00	-8.62	AV
V	17355.084	62.80	10.12	38.80	44.10	67.62	74.00	-6.38	PK
V	17355.084	43.03	10.12	38.80	42.70	49.25	54.00	-4.75	AV
H	4592.022	64.48	6.48	36.37	44.05	63.28	74.00	-10.72	PK
H	4592.022	43.60	6.48	36.37	44.05	42.40	54.00	-11.60	AV
H	11570.137	54.41	8.47	38.64	44.50	57.02	68.20	-11.18	PK
H	11570.137	44.66	8.47	38.64	44.50	47.27	54.00	-6.73	AV
H	17355.197	53.29	10.12	38.38	44.10	57.69	74.00	-16.31	PK
H	17355.197	44.00	10.12	38.38	44.10	48.40	54.00	-5.60	AV
High Channel (5825 MHz)-Above 1G									
V	6039.090	61.56	7.10	37.24	43.50	62.40	68.20	-5.80	PK
V	6039.090	43.62	7.10	37.24	43.50	44.46	54.00	-9.54	AV
V	11650.019	63.71	8.46	37.68	44.50	65.35	74.00	-8.65	PK
V	11650.019	43.19	8.46	37.68	44.50	44.83	54.00	-9.17	AV
V	17475.140	63.35	10.12	38.80	44.10	68.17	68.20	-0.03	PK
V	17475.140	43.55	10.12	38.80	42.70	49.77	54.00	-4.23	AV
H	6039.046	64.08	7.10	37.24	43.50	64.92	68.20	-3.28	PK
H	6039.046	43.06	7.10	37.24	43.50	43.90	54.00	-10.10	AV
H	11650.050	50.41	8.46	38.57	44.50	52.94	74.00	-21.06	PK
H	11650.050	42.11	8.46	38.57	44.50	44.64	54.00	-9.36	AV
H	17475.046	51.27	10.12	38.38	44.10	55.67	68.20	-12.53	PK
H	17475.046	43.15	10.12	38.38	44.10	47.55	54.00	-6.45	AV

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

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

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

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

Test Mode :	TX (5.8G) -- 802.11AC40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenn a Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.113	63.69	5.94	35.40	44.00	61.03	74.00	-12.97	PK
V	4679.113	43.60	5.94	35.40	44.00	40.94	54.00	-13.06	AV
V	11510.069	61.03	8.46	39.75	44.50	64.74	68.20	-3.46	PK
V	11510.069	43.34	8.46	39.75	44.50	47.05	54.00	-6.95	AV
V	17265.117	60.82	10.12	38.80	44.10	65.64	74.00	-8.36	PK
V	17265.117	43.44	10.12	38.80	42.70	49.66	54.00	-4.34	AV
H	4679.002	64.45	5.94	35.18	44.00	61.57	74.00	-12.43	PK
H	4679.002	43.39	5.94	35.18	44.00	40.51	54.00	-13.49	AV
H	11510.076	51.11	8.46	38.71	44.50	53.78	68.20	-14.42	PK
H	11510.076	44.63	8.46	38.71	44.50	47.30	54.00	-6.70	AV
H	17265.145	53.22	10.12	38.38	44.10	57.62	74.00	-16.38	PK
H	17265.145	40.26	10.12	38.38	44.10	44.66	54.00	-9.34	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.003	61.37	6.48	36.35	44.05	60.15	68.20	-8.05	PK
V	6039.003	43.37	6.48	36.35	44.05	42.15	54.00	-11.85	AV
V	11590.066	63.71	8.47	37.88	44.51	65.55	74.00	-8.45	PK
V	11590.066	43.70	8.47	37.88	44.51	45.54	54.00	-8.46	AV
V	17385.007	60.10	10.12	38.80	44.10	64.92	68.20	-3.28	PK
V	17385.007	43.93	10.12	38.80	42.70	50.15	54.00	-3.85	AV
H	6039.181	62.18	6.48	36.37	44.05	60.98	68.20	-7.22	PK
H	6039.181	43.20	6.48	36.37	44.05	42.00	54.00	-12.00	AV
H	11590.196	54.32	8.47	38.64	44.50	56.93	74.00	-17.07	PK
H	11590.196	43.10	8.47	38.64	44.50	45.71	54.00	-8.29	AV
H	17385.073	52.96	10.12	38.38	44.10	57.36	68.20	-10.84	PK
H	17385.073	40.46	10.12	38.38	44.10	44.86	54.00	-9.14	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.

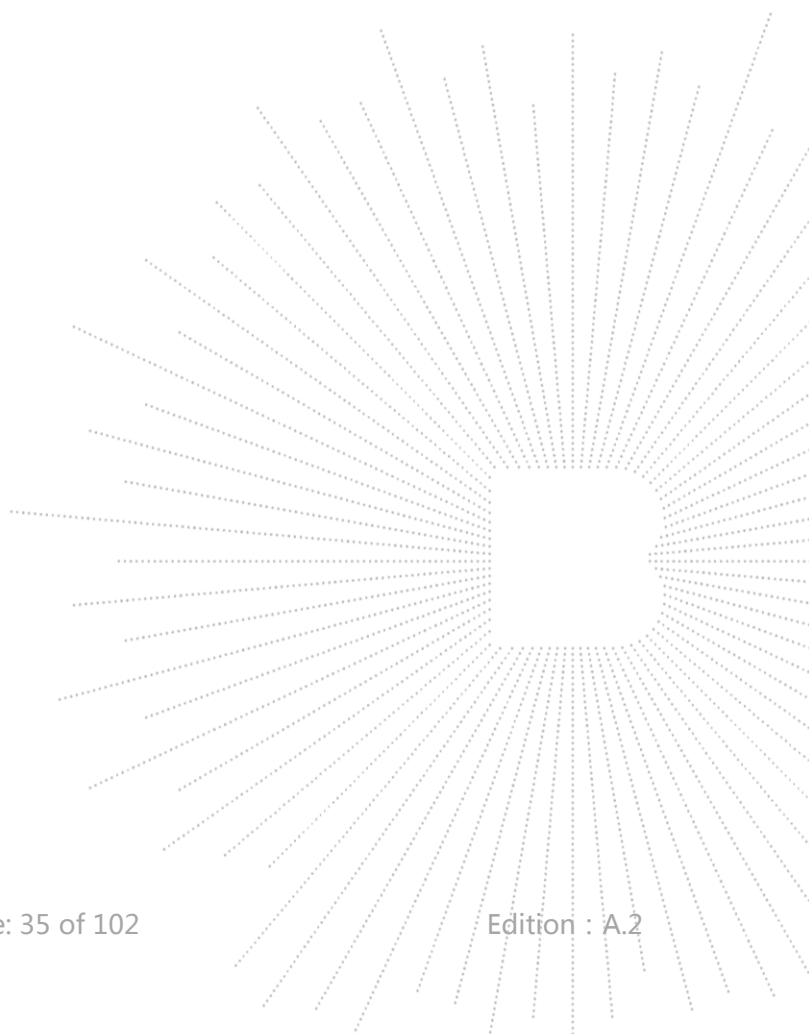
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

Test Mode :	TX(5.8G) - 802.11 AC80
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5775 MHz)-Above 1G									
V	4679.004	64.50	5.94	35.40	44.00	61.84	74.00	-12.16	PK
V	4679.004	43.35	5.94	35.40	44.00	40.69	54.00	-13.31	AV
V	11550.100	60.81	8.46	39.75	44.50	64.52	68.20	-3.68	PK
V	11550.100	43.13	8.46	39.75	44.50	46.84	54.00	-7.16	AV
V	17325.012	60.54	10.12	38.80	44.10	65.36	74.00	-8.64	PK
V	17325.012	43.69	10.12	38.80	42.70	49.91	54.00	-4.09	AV
H	4679.098	61.94	5.94	35.18	44.00	59.06	74.00	-14.94	PK
H	4679.098	43.88	5.94	35.18	44.00	41.00	54.00	-13.00	AV
H	11550.196	54.38	8.46	38.71	44.50	57.05	68.20	-11.15	PK
H	11550.196	42.33	8.46	38.71	44.50	45.00	54.00	-9.00	AV
H	17325.049	53.60	10.12	38.38	44.10	58.00	74.00	-16.00	PK
H	17325.049	42.93	10.12	38.38	44.10	47.33	54.00	-6.67	AV

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



8. POWER SPECTRAL DENSITY TEST

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional

gain greater than 6 dBi are used, both the maximum conducted output power and the maximum

power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional

gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of

the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in

maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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

For the band 5.725-5.85 GHz

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

8.3 Test procedure

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

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

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

8.4 EUT operating Conditions

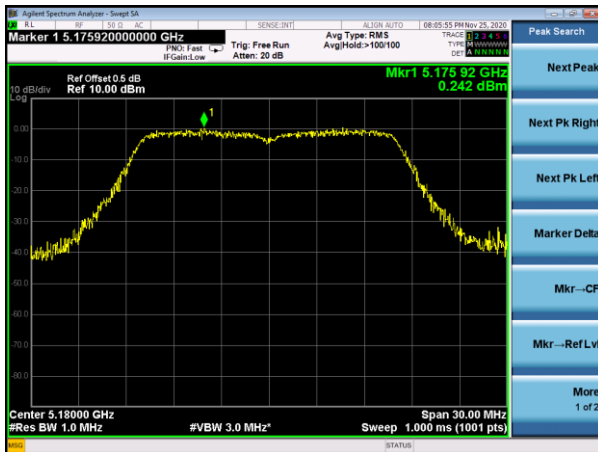
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 5V
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

Mode	Frequency	Measured Power Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11 a	5180 MHz	0.242	11	PASS
	5200 MHz	-0.849	11	PASS
	5240 MHz	-0.218	11	PASS
802.11 n20	5180 MHz	0.442	11	PASS
	5200 MHz	0.023	11	PASS
	5240 MHz	0.104	11	PASS
802.11 n40	5190 MHz	-3.738	11	PASS
	5230 MHz	-3.456	11	PASS
802.11 AC20	5180 MHz	-0.786	11	PASS
	5200 MHz	-0.399	11	PASS
	5240 MHz	0.074	11	PASS
802.11 AC40	5190 MHz	-4.500	11	PASS
	5230 MHz	-4.842	11	PASS
802.11 AC80	5210 MHz	-7.332	11	PASS

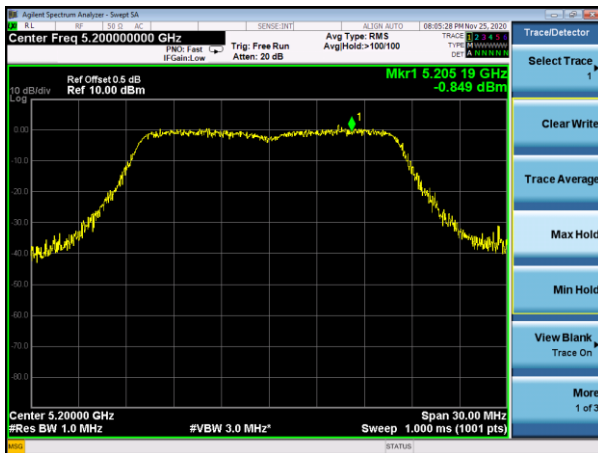
(802.11a) PSD plot on channel 36



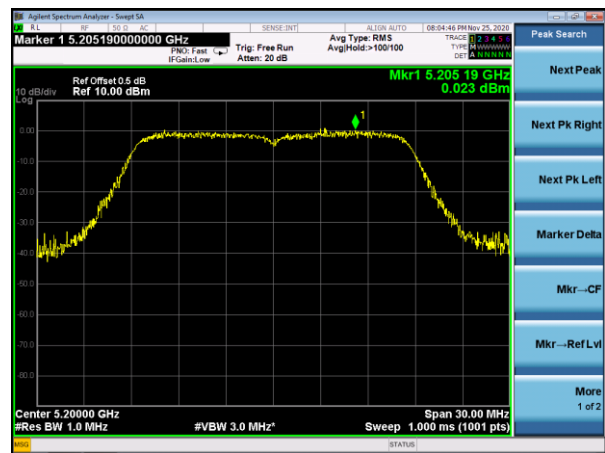
(802.11n20) PSD plot on channel 36



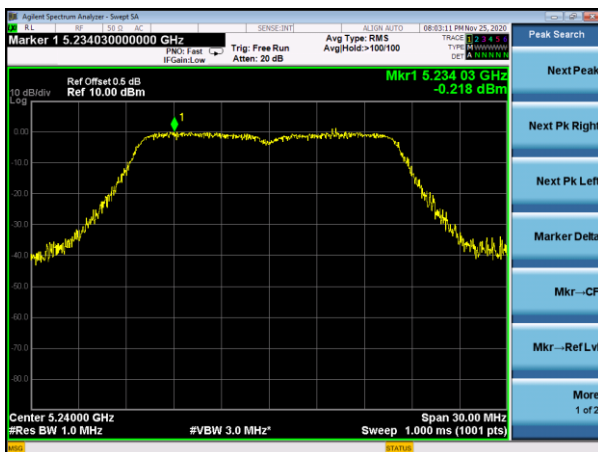
(802.11a) PSD plot on channel 40



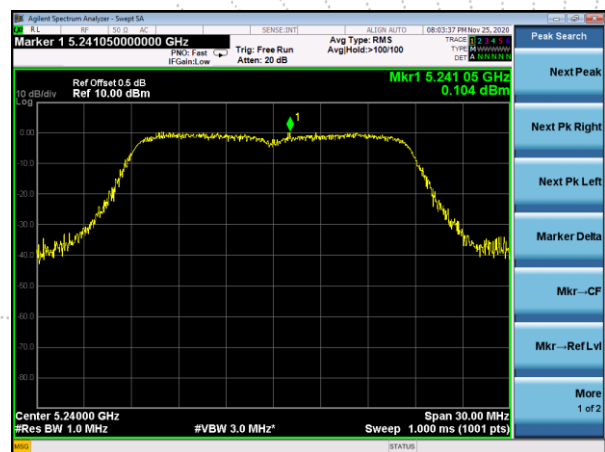
(802.11n20) PSD plot on channel 40



(802.11a) PSD plot on channel 48



(802.11n20) PSD plot on channel 48



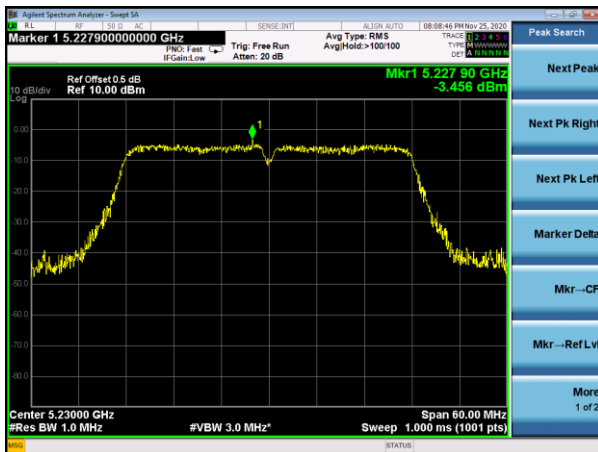
(802.11n40) PSD plot on channel 38



(802.11ac20) PSD plot on channel 36



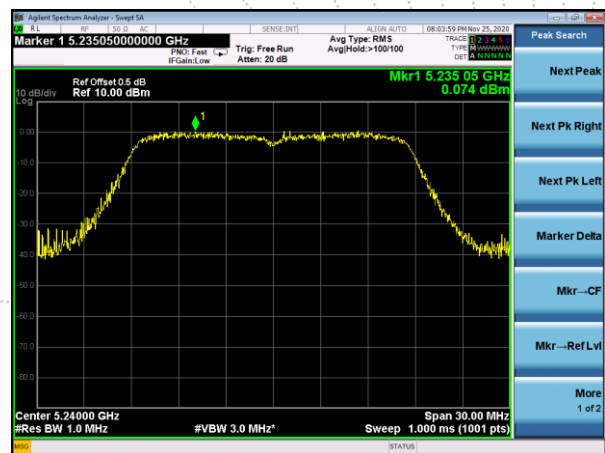
(802.11n40) PSD plot on channel 46



(802.11ac20) PSD plot on channel 40



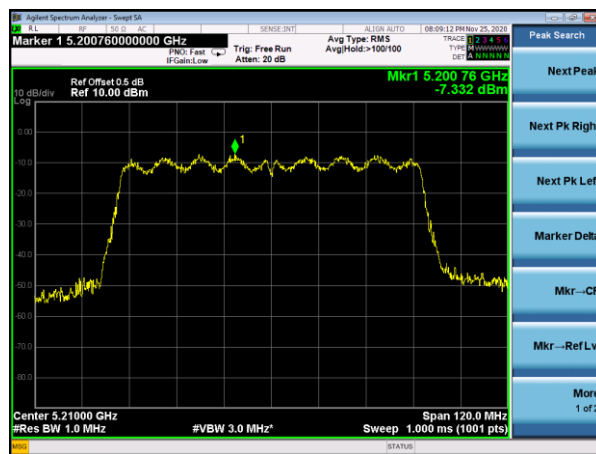
(802.11ac20) PSD plot on channel 48



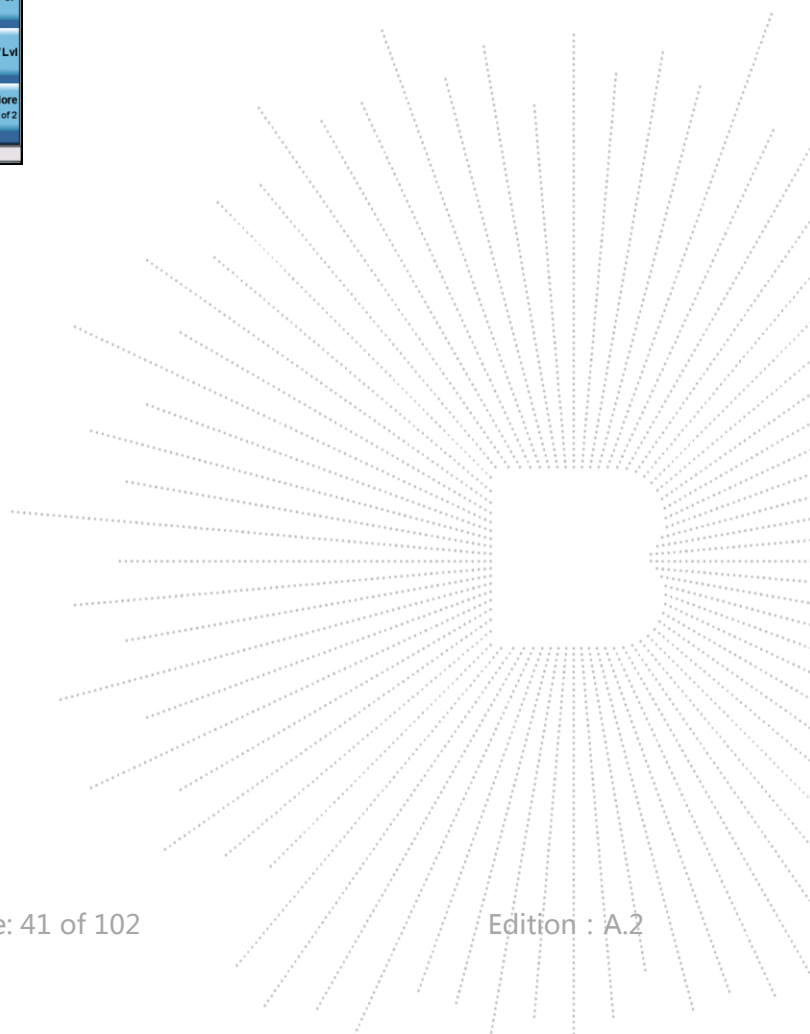
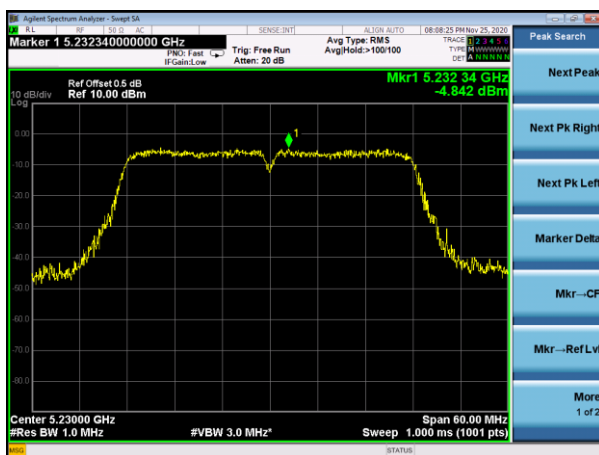
(802.11ac40) PSD plot on channel 38



(802.11ac80) PSD plot on channel 42



(802.11ac40) PSD plot on channel 46



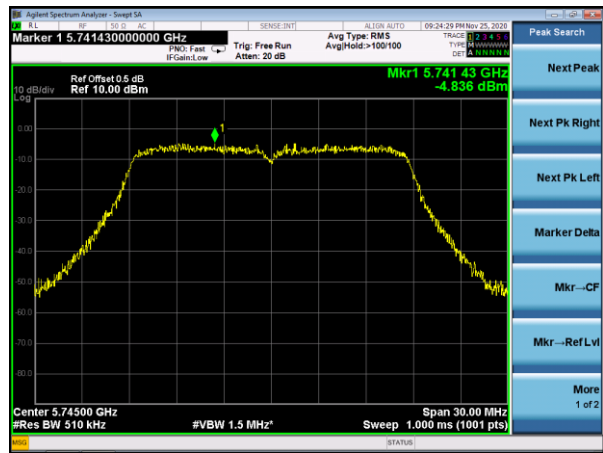
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 5V
Test Mode :	TX Frequency U-NII-3 (5745-5825MHz)		

Mode	Frequency	Measured Power Density (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11 a	5745 MHz	-3.852	30	PASS
	5785 MHz	-5.860	30	PASS
	5825 MHz	-6.599	30	PASS
802.11 n20	5745 MHz	-4.836	30	PASS
	5785 MHz	-5.952	30	PASS
	5825 MHz	-7.163	30	PASS
802.11 n40	5755 MHz	-8.002	30	PASS
	5795 MHz	-8.904	30	PASS
802.11 AC20	5745 MHz	-4.943	30	PASS
	5785 MHz	-6.108	30	PASS
	5825 MHz	-7.272	30	PASS
802.11 AC40	5755 MHz	-8.044	30	PASS
	5795 MHz	-9.278	30	PASS
802.11 AC80	5775 MHz	-10.692	30	PASS

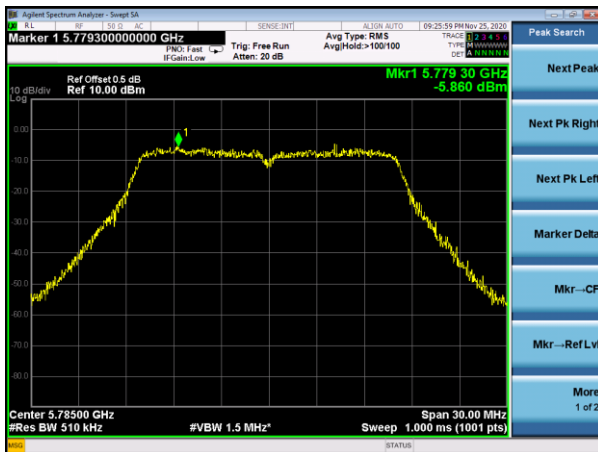
(802.11a) PSD plot on channel 149



(802.11n20) PSD plot on channel 149



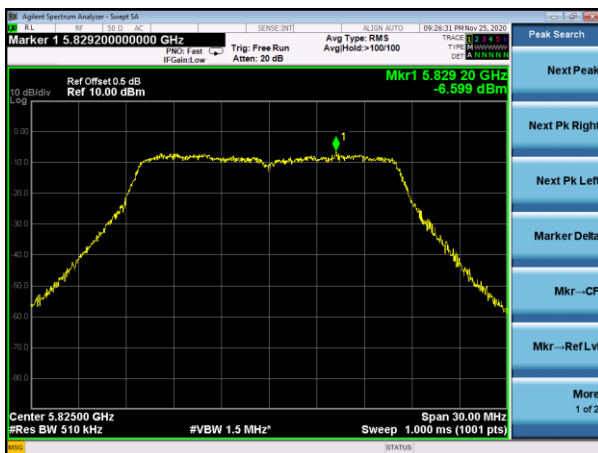
(802.11a) PSD plot on channel 157



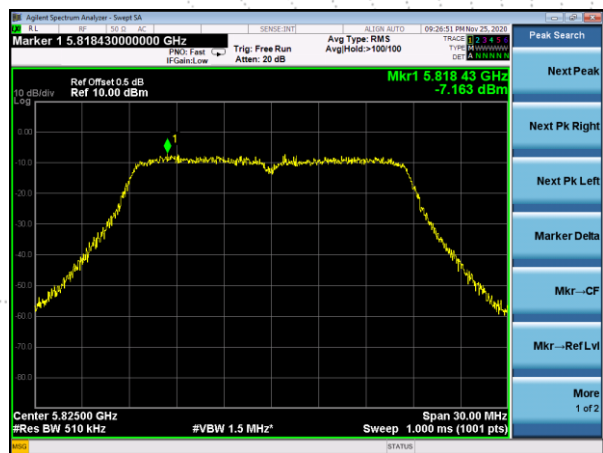
(802.11n20) PSD plot on channel 157



(802.11a) PSD plot on channel 165



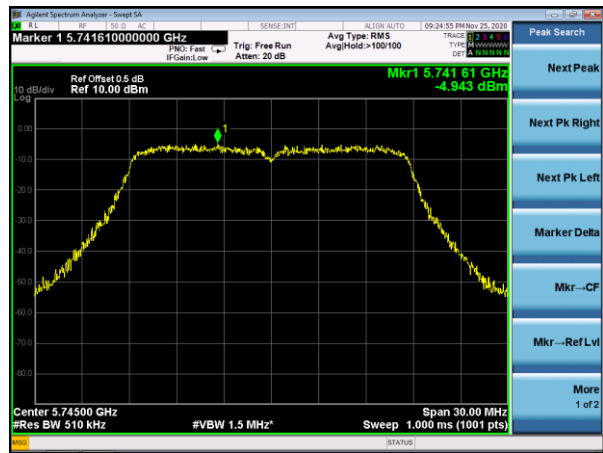
(802.11n20) PSD plot on channel 165



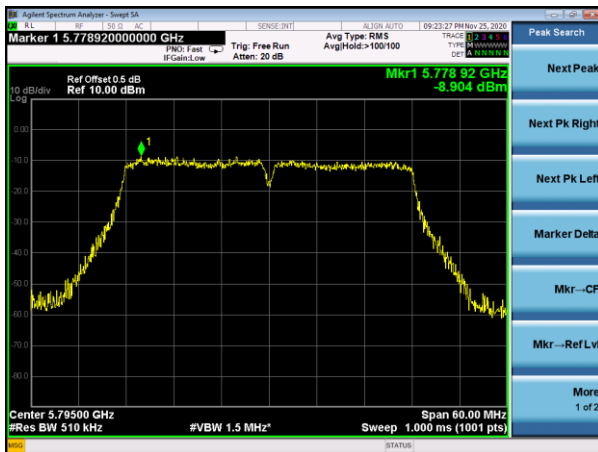
(802.11n40) PSD plot on channel 151



(802.11ac20) PSD plot on channel 149



(802.11n40) PSD plot on channel 159



(802.11ac20) PSD plot on channel 157



(802.11ac20) PSD plot on channel 165

