

TEST REPORT

Report No.: BCTC2107037524-4E

Applicant: CHINA DRAGON TECHNOLOGY LIMITED

Product Name: WLAN 11a/b/g/n/ac SDIO3.0 1T1R + Bluetooth 5.0 module

Model/Type Ref.: CDW-47W3155-00

Tested Date: 2021-07-29 to 2021-08-23

Issued Date: 2021-08-23

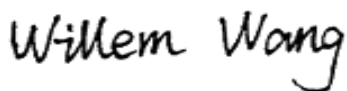
Shenzhen BCTC Testing Co., Ltd.



FCC ID: ROW-CDW47W3155

Product Name: WLAN 11a/b/g/n/ac SDIO3.0 1T1R + Bluetooth 5.0 module
Trademark: N/A
Model/Type Ref.: CDW-47W3155-00
Prepared For: CHINA DRAGON TECHNOLOGY LIMITED
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Shenzhen China
Manufacturer: CHINA DRAGON TECHNOLOGY LIMITED
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Sample Received Date: 2021-07-29
Sample tested Date: 2021-07-29 to 2021-08-23
Issue Date: 2021-08-23
Report No.: BCTC2107037524-4E
Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Willem Wang/Project Handler

Approved by:



Zero Zhou/Reviewer

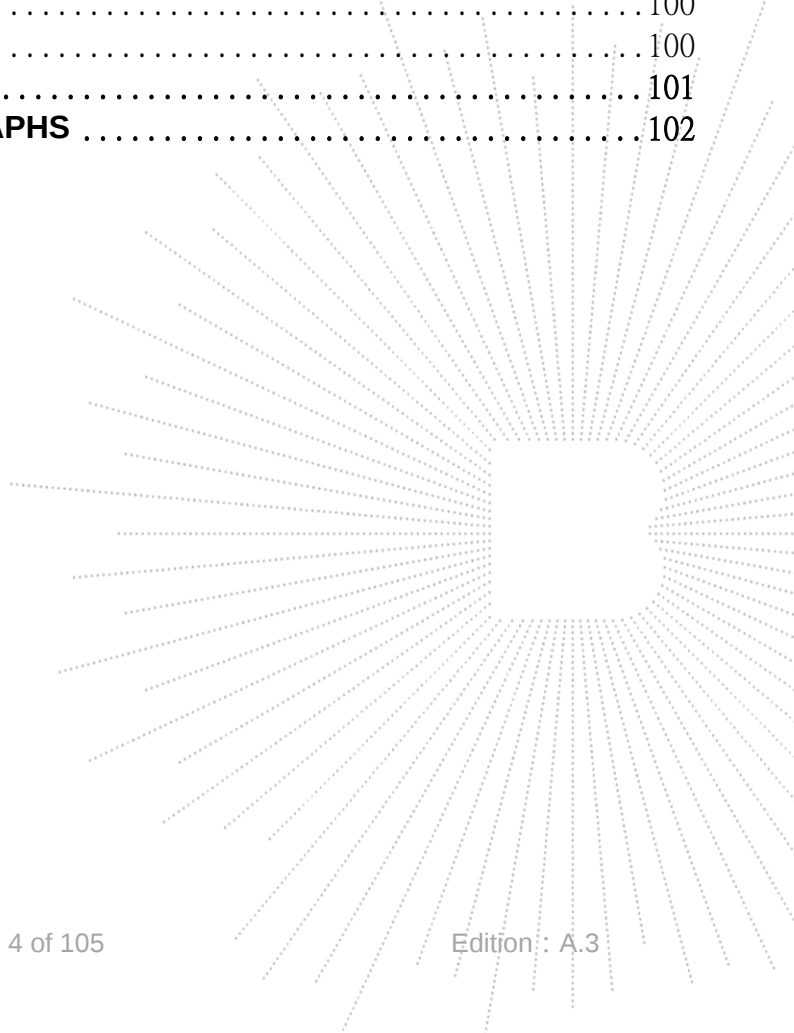
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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2107037524-4E	2021-08-23	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
8	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(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

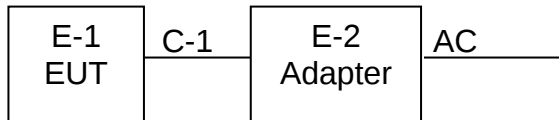
4.1 Product Information

Model/Type Ref.:	CDW-47W3155-00
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-MCS9
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:	External antenna
Antenna Gain:	2dBi
Type of device:	Indoor devices
Ratings:	DC 3.3V

4.2 Test Setup Configuration

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

Conducted Emission/ Radiated Spurious Emission::



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	WLAN 11a/b/g/n/ac SDIO3.0 1T1R + Bluetooth 5.0 module	N/A	CDW-47W 3155-00	N/A	EUT
E-2	Adapter	N/A	BCTC001	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.5M	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	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

802.11n /ac(40MHz) Carrier Frequency Channel							
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (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	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (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 generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 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	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

Note:

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

4.6 table of parameters of test software setting

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

Test software Version	CMD		
Parameters	DEF	DEF	DEF

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

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

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

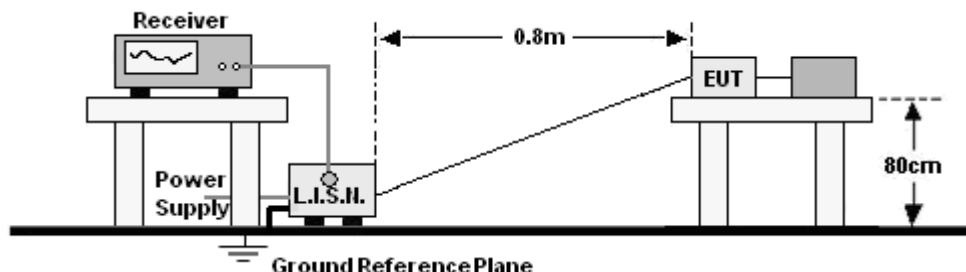
Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
ISN	HPX	ISN T800	S1509001	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

RF conducted test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419B	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9 300A	\	May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5GHz	KEYSIGHT	N9020A	MY4910006 0	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	Agilent	FSP40	100363	May 28, 2021	May 27, 2022

Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G 18G-45dB	\	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163- 942	Jun. 01, 2021	May 31, 2022
Horn Antenna	SCHWARZBE CK	BBHA9120 D	1201	Jun. 02, 2021	Jun. 01, 2022
Horn Antenna (18GHz-40GHz)	SCHWARZBE CK	BBHA9170	822	Jun. 15, 2021	Jun. 14, 2022
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-3 5-HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna (9kHz-30MHz)	SCHWARZBE CK	FMZB1519 B	014	Jun. 02, 2021	Jun. 01, 2022
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30M Hz	B1702988- 0008	May 28, 2021	May 27, 2022
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1G Hz	1486150	May 28, 2021	May 27, 2022
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40G Hz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419B	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9 300A	\	May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5GHz	KEYSIGHT	N9020A	MY491000 60	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	R&S	FSP40	100363	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

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

Notes:

- *Decreasing linearly with logarithm of frequency.
- The lower limit shall apply at the transition frequencies.

6.3 Test procedure

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

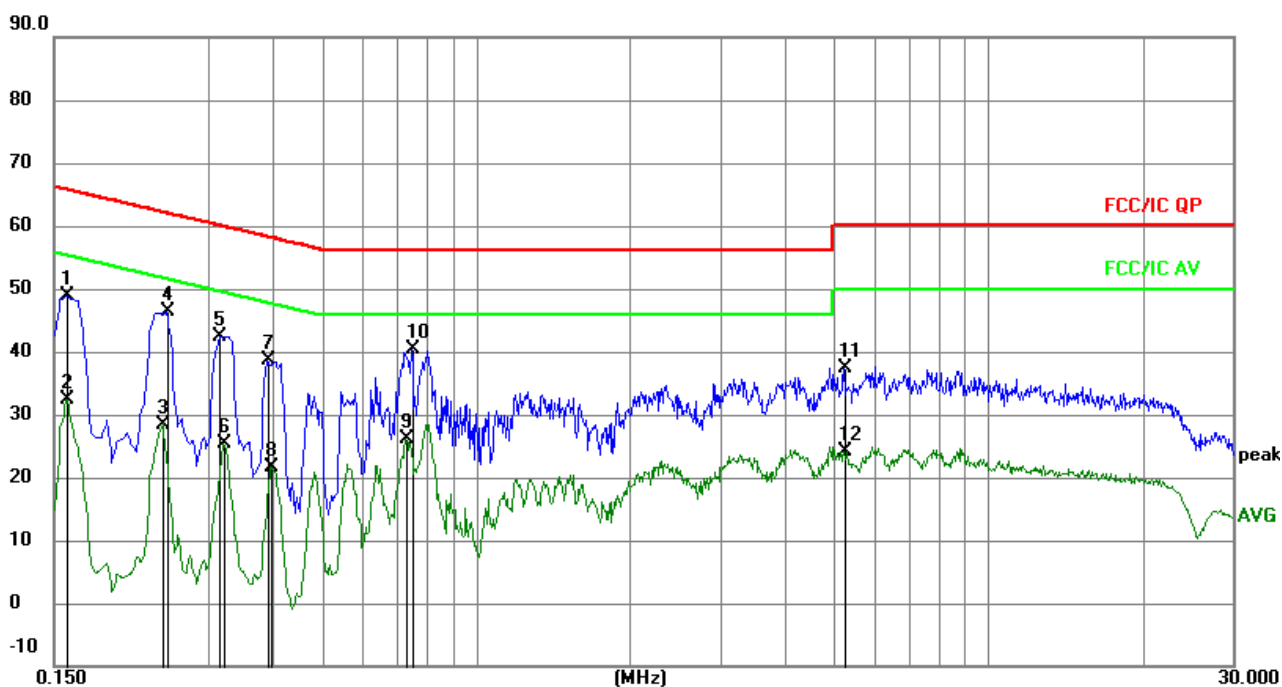
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N.).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak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

6.4 EUT operating Conditions

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

6.5 Test Result

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

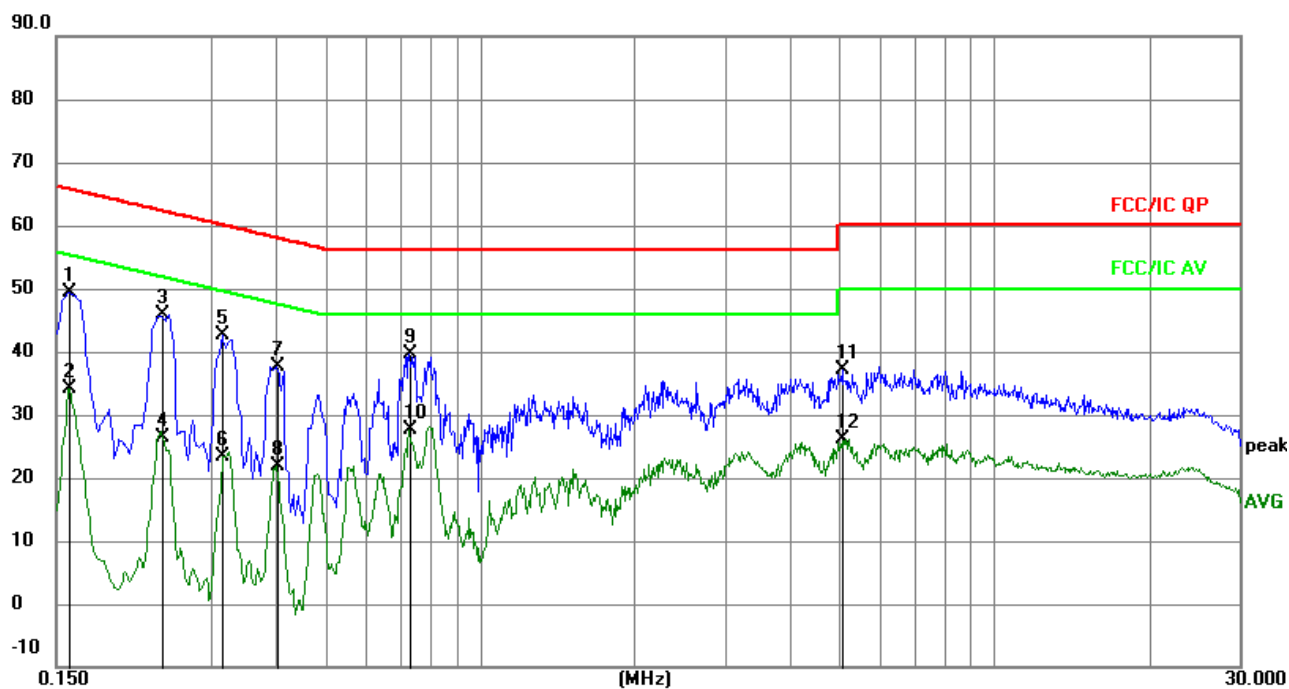


Remark:

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

No. Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1590	39.33	9.51	48.84	65.52	-16.68	QP
2	0.1590	22.96	9.51	32.47	55.52	-23.05	AVG
3	0.2445	18.99	9.51	28.50	51.94	-23.44	AVG
4	0.2490	36.74	9.52	46.26	61.79	-15.53	QP
5	0.3165	32.77	9.57	42.34	59.80	-17.46	QP
6	0.3209	15.75	9.56	25.31	49.68	-24.37	AVG
7	0.3930	29.07	9.51	38.58	58.00	-19.42	peak
8	0.3975	12.13	9.50	21.63	47.91	-26.28	AVG
9	0.7304	16.54	9.64	26.18	46.00	-19.82	AVG
10 *	0.7485	30.85	9.64	40.49	56.00	-15.51	peak
11	5.2350	27.59	9.79	37.38	60.00	-22.62	peak
12	5.2350	14.43	9.79	24.22	50.00	-25.78	AVG

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



Remark:

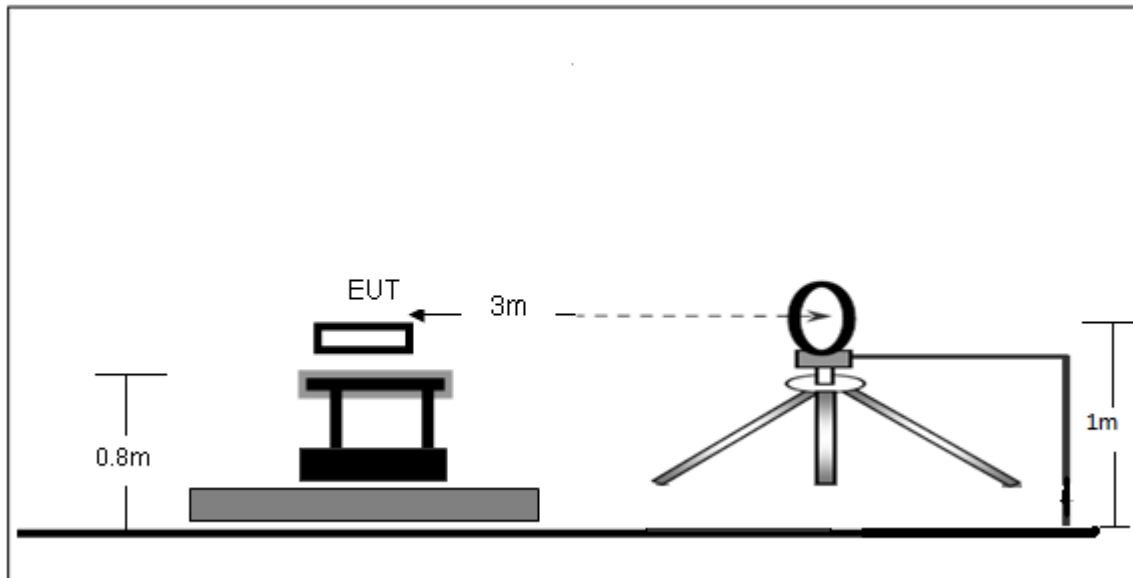
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1590	39.91	9.51	49.42	65.52	-16.10	QP
2		0.1590	24.60	9.51	34.11	55.52	-21.41	AVG
3	*	0.2416	36.48	9.51	45.99	62.04	-16.05	QP
4		0.2416	16.81	9.51	26.32	52.04	-25.72	AVG
5		0.3165	32.94	9.57	42.51	59.80	-17.29	QP
6		0.3165	13.92	9.57	23.49	49.80	-26.31	AVG
7		0.4020	28.04	9.50	37.54	57.81	-20.27	QP
8		0.4020	12.28	9.50	21.78	47.81	-26.03	AVG
9		0.7304	29.93	9.64	39.57	56.00	-16.43	QP
10		0.7304	17.98	9.64	27.62	46.00	-18.38	AVG
11		5.0685	27.21	9.80	37.01	60.00	-22.99	QP
12		5.0685	16.22	9.80	26.02	50.00	-23.98	AVG

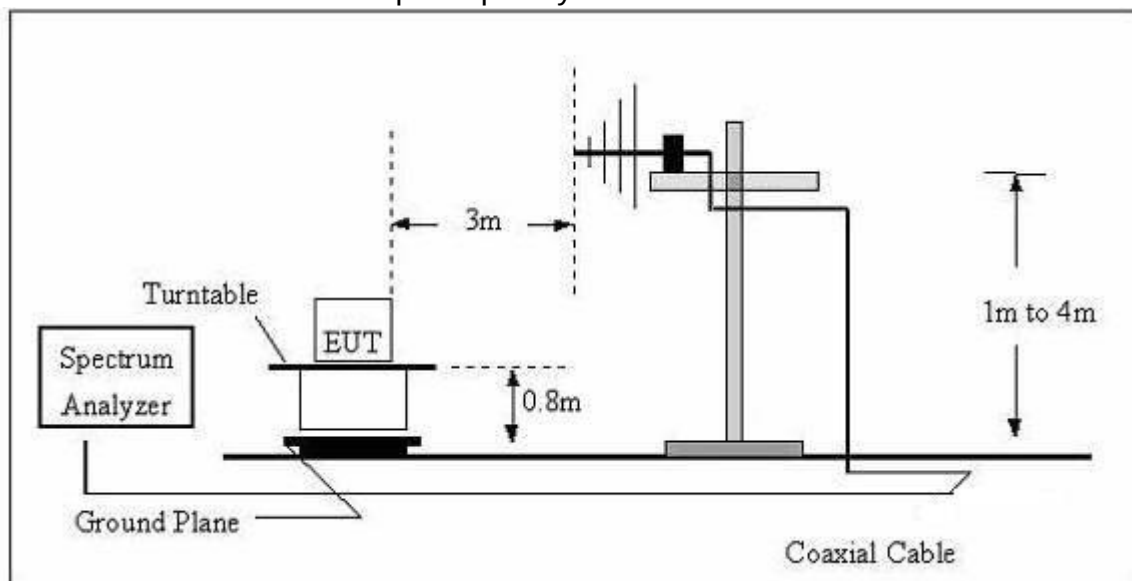
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

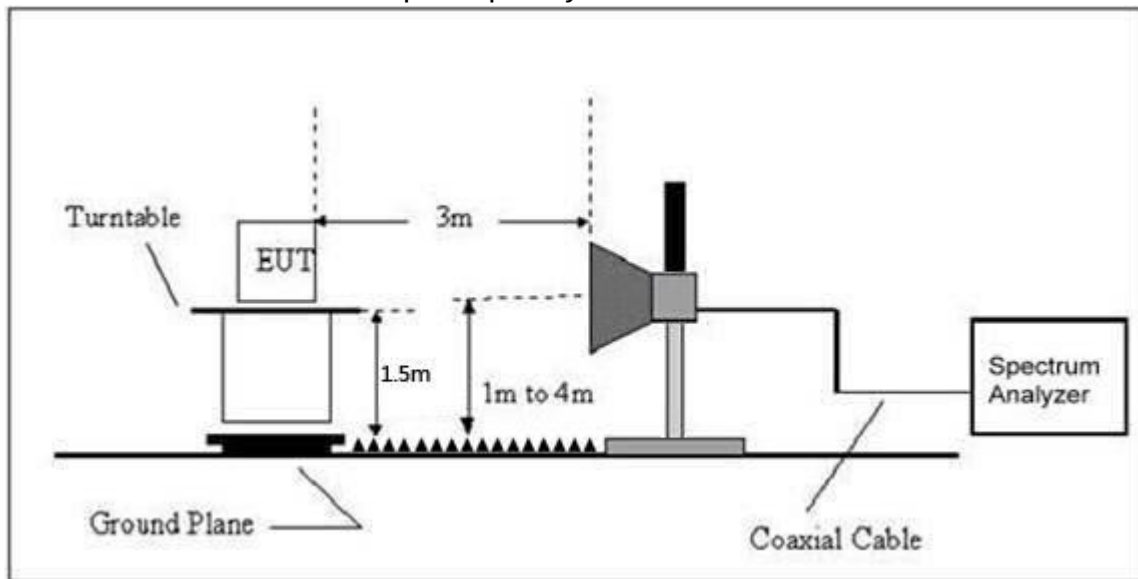
(A) Radiated Emission Test-Up Frequency Below 30MHz



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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

7.3 Test procedure

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

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

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

Use the following spectrum analyzer settings:

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

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

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

Note:

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

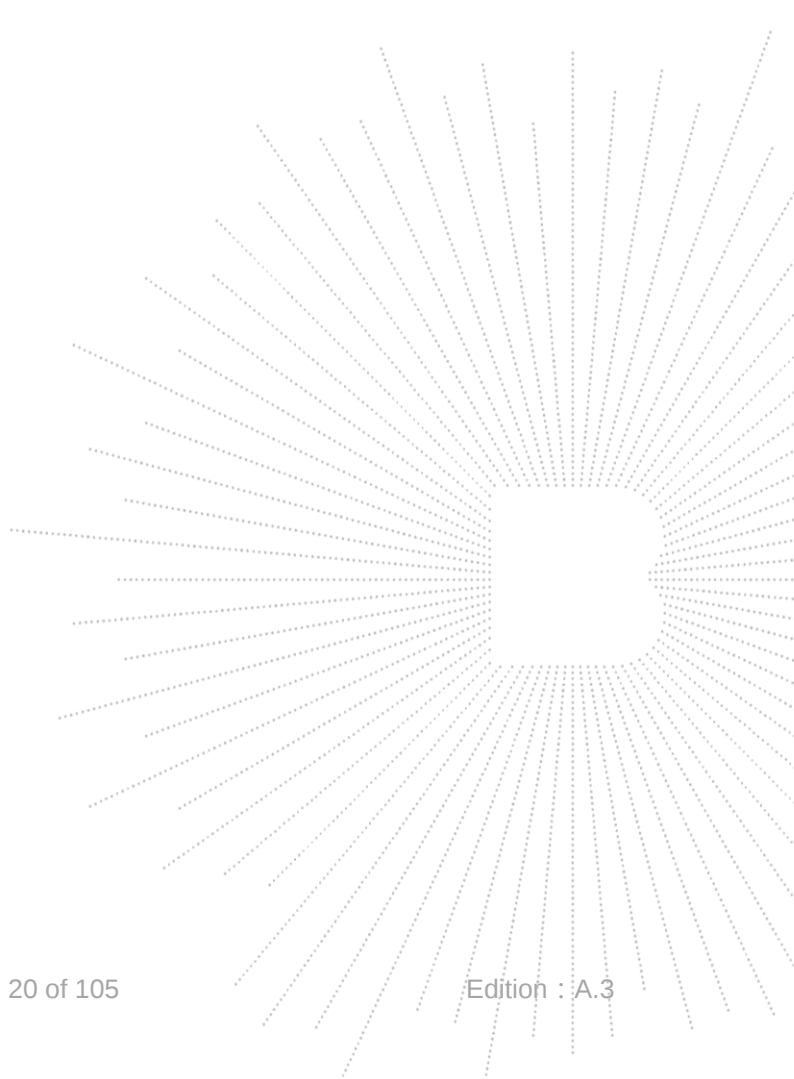
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

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

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

7.4 EUT operating Conditions

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



7.5 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage :	AC120V/60Hz
Test Mode :	Mode 4	Polarization :	--

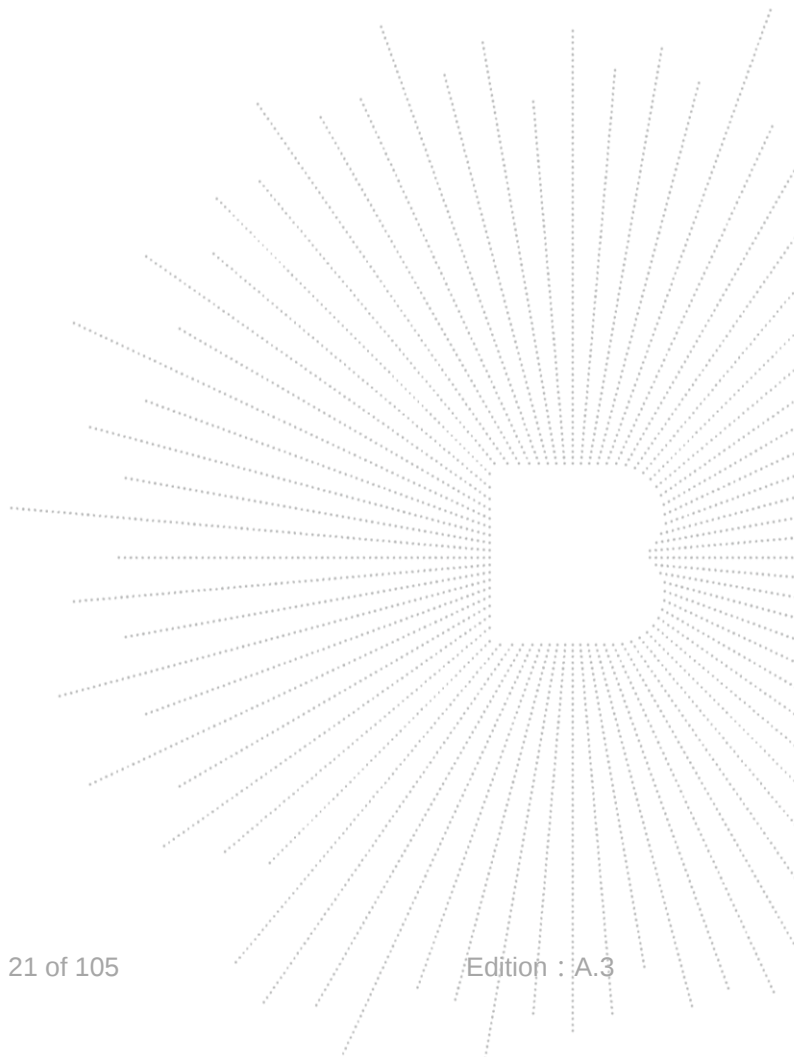
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

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

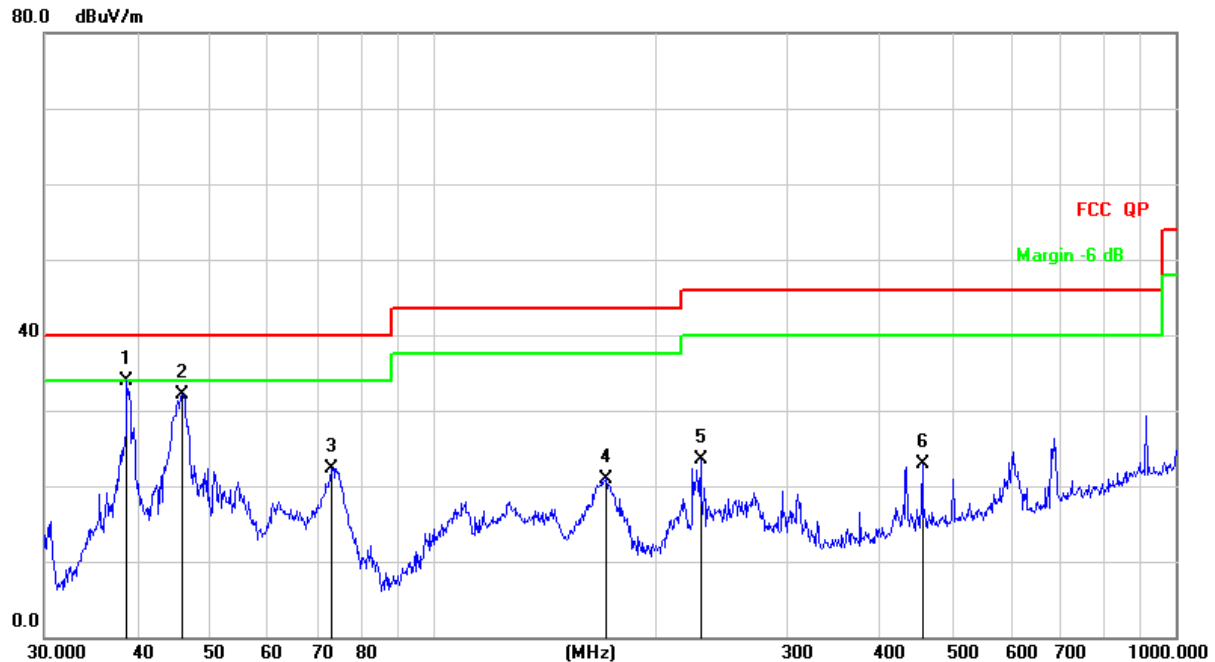
Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})(\text{dB})$;

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



Between 30MHz – 1GHz

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

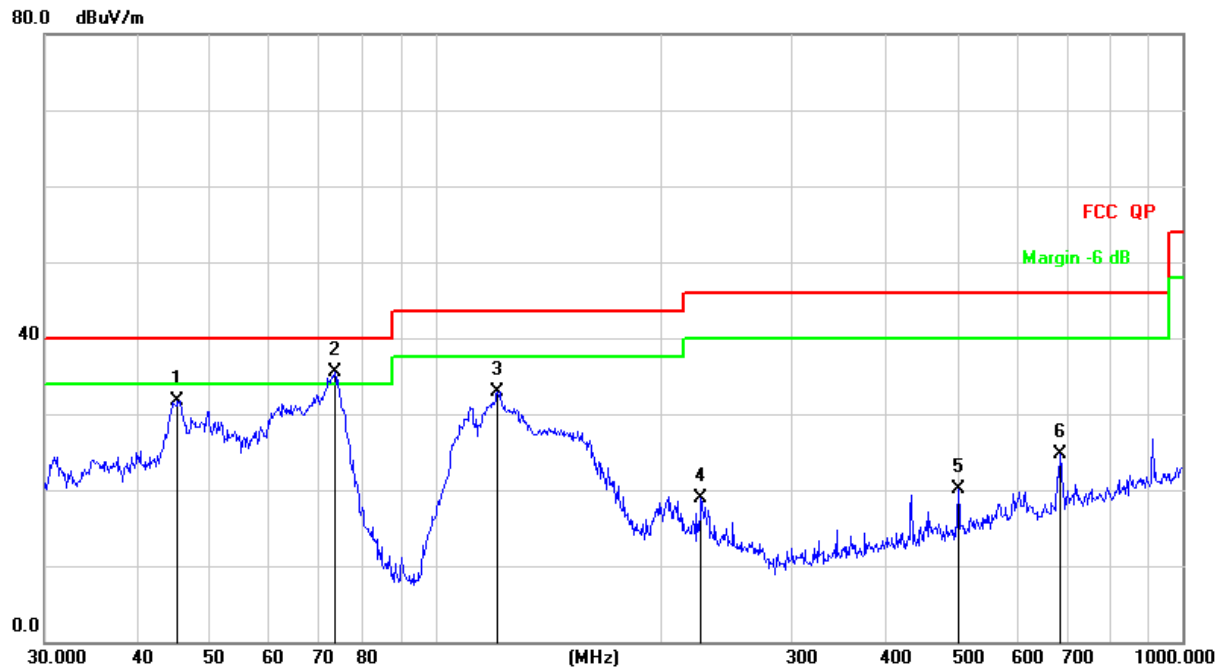


Remark:

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	*	38.7518	49.46	-15.64	33.82	40.00	-6.18	QP
2		46.0164	47.25	-15.07	32.18	40.00	-7.82	QP
3		73.1025	41.18	-18.88	22.30	40.00	-17.70	QP
4		171.3926	39.13	-18.13	21.00	43.50	-22.50	QP
5		229.2931	39.22	-15.63	23.59	46.00	-22.41	QP
6		455.9058	32.74	-9.85	22.89	46.00	-23.11	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	AC120V/60Hz
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		45.2166	46.78	-15.12	31.66	40.00	-8.34	QP
2	*	73.3593	54.52	-18.94	35.58	40.00	-4.42	QP
3		121.1231	50.48	-17.64	32.84	43.50	-10.66	QP
4		226.8936	34.58	-15.68	18.90	46.00	-27.10	QP
5		501.1790	28.92	-8.91	20.01	46.00	-25.99	QP
6		687.1507	30.27	-5.57	24.70	46.00	-21.30	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	4434.092	62.95	5.94	35.40	44.00	60.29	68.20	-7.91	PK
V	4434.092	43.17	5.94	35.40	44.00	40.51	54.00	-13.49	AV
V	10360.088	61.34	8.46	39.75	44.50	65.05	74.00	-8.95	PK
V	10360.088	43.63	8.46	39.75	44.50	47.34	54.00	-6.66	AV
V	15540.115	62.60	10.12	38.80	44.10	67.42	74.00	-6.58	PK
V	15540.115	43.39	10.12	38.80	42.70	49.61	54.00	-4.39	AV
H	4434.123	64.63	5.94	35.18	44.00	61.75	68.20	-6.45	PK
H	4434.123	43.52	5.94	35.18	44.00	40.64	54.00	-13.36	AV
H	10360.052	53.13	8.46	38.71	44.50	55.80	74.00	-18.20	PK
H	10360.052	44.90	8.46	38.71	44.50	47.57	54.00	-6.43	AV
H	15540.121	51.00	10.12	38.38	44.10	55.40	74.00	-18.60	PK
H	15540.121	43.51	10.12	38.38	44.10	47.91	54.00	-6.09	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.099	61.51	6.48	36.35	44.05	60.29	74.00	-13.71	PK
V	4592.099	43.21	6.48	36.35	44.05	41.99	54.00	-12.01	AV
V	10400.103	62.02	8.47	37.88	44.51	63.86	68.20	-4.34	PK
V	10400.103	43.59	8.47	37.88	44.51	45.43	54.00	-8.57	AV
V	15600.175	61.70	10.12	38.80	44.10	66.52	74.00	-7.48	PK
V	15600.175	43.52	10.12	38.80	42.70	49.74	54.00	-4.26	AV
H	4592.041	63.37	6.48	36.37	44.05	62.17	74.00	-11.83	PK
H	4592.041	43.56	6.48	36.37	44.05	42.36	54.00	-11.64	AV
H	10400.142	50.62	8.47	38.64	44.50	53.23	68.20	-14.97	PK
H	10400.142	42.73	8.47	38.64	44.50	45.34	54.00	-8.66	AV
H	15600.174	52.04	10.12	38.38	44.10	56.44	74.00	-17.56	PK
H	15600.174	42.05	10.12	38.38	44.10	46.45	54.00	-7.55	AV
High Channel (5240 MHz)-Above 1G									
V	4739.163	60.02	7.10	37.24	43.50	60.86	74.00	-13.14	PK
V	4739.163	43.21	7.10	37.24	43.50	44.05	54.00	-9.95	AV
V	10480.188	62.95	8.46	37.68	44.50	64.59	68.20	-3.61	PK
V	10480.188	43.93	8.46	37.68	44.50	45.57	54.00	-8.43	AV
V	15720.015	61.61	10.12	38.80	44.10	66.43	74.00	-7.57	PK
V	15720.015	43.40	10.12	38.80	42.70	49.62	54.00	-4.38	AV
H	4739.003	63.93	7.10	37.24	43.50	64.77	74.00	-9.23	PK
H	4739.003	43.06	7.10	37.24	43.50	43.90	54.00	-10.10	AV
H	10480.026	54.06	8.46	38.57	44.50	56.59	68.20	-11.61	PK
H	10480.026	44.80	8.46	38.57	44.50	47.33	54.00	-6.67	AV
H	15720.033	50.78	10.12	38.38	44.10	55.18	74.00	-18.82	PK
H	15720.033	44.33	10.12	38.38	44.10	48.73	54.00	-5.27	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	4434.150	62.47	5.94	35.40	44.00	59.81	68.20	-8.39	PK
V	4434.150	43.95	5.94	35.40	44.00	41.29	54.00	-12.71	AV
V	10360.088	61.27	8.46	39.75	44.50	64.98	68.20	-3.22	PK
V	10360.088	43.43	8.46	39.75	44.50	47.14	54.00	-6.86	AV
V	15540.156	61.78	10.12	38.80	44.10	66.60	74.00	-7.40	PK
V	15540.156	43.66	10.12	38.80	42.70	49.88	54.00	-4.12	AV
H	4434.085	64.23	5.94	35.18	44.00	61.35	68.20	-6.85	PK
H	4434.085	43.97	5.94	35.18	44.00	41.09	54.00	-12.91	AV
H	10360.101	52.58	8.46	38.71	44.50	55.25	68.20	-12.95	PK
H	10360.101	40.30	8.46	38.71	44.50	42.97	54.00	-11.03	AV
H	15540.037	53.03	10.12	38.38	44.10	57.43	74.00	-16.57	PK
H	15540.037	41.63	10.12	38.38	44.10	46.03	54.00	-7.97	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.037	63.75	6.48	36.35	44.05	62.53	74.00	-11.47	PK
V	4592.037	43.85	6.48	36.35	44.05	42.63	54.00	-11.37	AV
V	10400.184	62.74	8.47	37.88	44.51	64.58	68.20	-3.62	PK
V	10400.184	43.51	8.47	37.88	44.51	45.35	54.00	-8.65	AV
V	15600.186	62.62	10.12	38.80	44.10	67.44	74.00	-6.56	PK
V	15600.186	43.06	10.12	38.80	42.70	49.28	54.00	-4.72	AV
H	4592.078	63.61	6.48	36.37	44.05	62.41	74.00	-11.59	PK
H	4592.078	43.14	6.48	36.37	44.05	41.94	54.00	-12.06	AV
H	10400.171	53.14	8.47	38.64	44.50	55.75	68.20	-12.45	PK
H	10400.171	42.96	8.47	38.64	44.50	45.57	54.00	-8.43	AV
H	15600.121	53.52	10.12	38.38	44.10	57.92	74.00	-16.08	PK
H	15600.121	40.57	10.12	38.38	44.10	44.97	54.00	-9.03	AV
High Channel (5240 MHz)-Above 1G									
V	4739.151	60.45	7.10	37.24	43.50	61.29	74.00	-12.71	PK
V	4739.151	43.56	7.10	37.24	43.50	44.40	54.00	-9.60	AV
V	10480.107	61.09	8.46	37.68	44.50	62.73	68.20	-5.47	PK
V	10480.107	43.03	8.46	37.68	44.50	44.67	54.00	-9.33	AV
V	15720.144	61.69	10.12	38.80	44.10	66.51	74.00	-7.49	PK
V	15720.144	43.07	10.12	38.80	42.70	49.29	54.00	-4.71	AV
H	4739.091	60.72	7.10	37.24	43.50	61.56	74.00	-12.44	PK
H	4739.091	43.76	7.10	37.24	43.50	44.60	54.00	-9.40	AV
H	10480.009	53.11	8.46	38.57	44.50	55.64	68.20	-12.56	PK
H	10480.009	44.94	8.46	38.57	44.50	47.47	54.00	-6.53	AV
H	15720.040	52.62	10.12	38.38	44.10	57.02	74.00	-16.98	PK
H	15720.040	43.02	10.12	38.38	44.10	47.42	54.00	-6.58	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)	Antenn a Factor dB/m	Preamp Factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.095	61.61	5.94	35.40	44.00	58.95	74.00	-15.05	PK
V	4434.095	43.34	5.94	35.40	44.00	40.68	54.00	-13.32	AV
V	10380.062	61.00	8.46	39.75	44.50	64.71	68.20	-3.49	PK
V	10380.062	43.67	8.46	39.75	44.50	47.38	54.00	-6.62	AV
V	15570.051	61.22	10.12	38.80	44.10	66.04	74.00	-7.96	PK
V	15570.051	43.43	10.12	38.80	42.70	49.65	54.00	-4.35	AV
H	4434.100	64.51	5.94	35.18	44.00	61.63	74.00	-12.37	PK
H	4434.100	43.52	5.94	35.18	44.00	40.64	54.00	-13.36	AV
H	10380.049	50.20	8.46	38.71	44.50	52.87	68.20	-15.33	PK
H	10380.049	43.19	8.46	38.71	44.50	45.86	54.00	-8.14	AV
H	15570.041	54.12	10.12	38.38	44.10	58.52	74.00	-15.48	PK
H	15570.041	41.16	10.12	38.38	44.10	45.56	54.00	-8.44	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.141	64.89	6.48	36.35	44.05	63.67	74.00	-10.33	PK
V	4739.141	43.43	6.48	36.35	44.05	42.21	54.00	-11.79	AV
V	10460.192	63.86	8.47	37.88	44.51	65.70	68.20	-2.50	PK
V	10460.192	43.80	8.47	37.88	44.51	45.64	54.00	-8.36	AV
V	15690.147	61.88	10.12	38.80	44.10	66.70	74.00	-7.30	PK
V	15690.147	43.53	10.12	38.80	42.70	49.75	54.00	-4.25	AV
H	4739.083	64.98	6.48	36.37	44.05	63.78	74.00	-10.22	PK
H	4739.083	43.74	6.48	36.37	44.05	42.54	54.00	-11.46	AV
H	10460.089	51.08	8.47	38.64	44.50	53.69	68.20	-14.51	PK
H	10460.089	40.40	8.47	38.64	44.50	43.01	54.00	-10.99	AV
H	15690.076	53.40	10.12	38.38	44.10	57.80	74.00	-16.20	PK
H	15690.076	42.45	10.12	38.38	44.10	46.85	54.00	-7.15	AV

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

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

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

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

Test Mode :	TX(5.1G) - 802.11 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	4434.063	64.40	5.94	35.40	44.00	61.74	68.20	-6.46	PK
V	4434.063	43.62	5.94	35.40	44.00	40.96	54.00	-13.04	AV
V	10360.095	63.21	8.46	39.75	44.50	66.92	68.20	-1.28	PK
V	10360.095	43.57	8.46	39.75	44.50	47.28	54.00	-6.72	AV
V	15540.106	60.57	10.12	38.80	44.10	65.39	74.00	-8.61	PK
V	15540.106	43.03	10.12	38.80	42.70	49.25	54.00	-4.75	AV
H	4434.065	64.56	5.94	35.18	44.00	61.68	68.20	-6.52	PK
H	4434.065	43.81	5.94	35.18	44.00	40.93	54.00	-13.07	AV
H	10360.116	54.42	8.46	38.71	44.50	57.09	68.20	-11.11	PK
H	10360.116	42.86	8.46	38.71	44.50	45.53	54.00	-8.47	AV
H	15540.101	52.36	10.12	38.38	44.10	56.76	74.00	-17.24	PK
H	15540.101	40.21	10.12	38.38	44.10	44.61	54.00	-9.39	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.012	60.68	6.48	36.35	44.05	59.46	74.00	-14.54	PK
V	4592.012	43.65	6.48	36.35	44.05	42.43	54.00	-11.57	AV
V	10400.180	63.86	8.47	37.88	44.51	65.70	68.20	-2.50	PK
V	10400.180	43.42	8.47	37.88	44.51	45.26	54.00	-8.74	AV
V	15600.138	62.32	10.12	38.80	44.10	67.14	74.00	-6.86	PK
V	15600.138	43.81	10.12	38.80	42.70	50.03	54.00	-3.97	AV
H	4592.032	61.84	6.48	36.37	44.05	60.64	74.00	-13.36	PK
H	4592.032	43.89	6.48	36.37	44.05	42.69	54.00	-11.31	AV
H	10400.036	51.11	8.47	38.64	44.50	53.72	68.20	-14.48	PK
H	10400.036	42.67	8.47	38.64	44.50	45.28	54.00	-8.72	AV
H	15600.069	53.56	10.12	38.38	44.10	57.96	74.00	-16.04	PK
H	15600.069	40.35	10.12	38.38	44.10	44.75	54.00	-9.25	AV
High Channel (5240 MHz)-Above 1G									
V	4739.136	62.76	7.10	37.24	43.50	63.60	74.00	-10.40	PK
V	4739.136	44.00	7.10	37.24	43.50	44.84	54.00	-9.16	AV
V	10480.146	64.85	8.46	37.68	44.50	66.49	68.20	-1.71	PK
V	10480.146	43.84	8.46	37.68	44.50	45.48	54.00	-8.52	AV
V	15720.090	62.42	10.12	38.80	44.10	67.24	74.00	-6.76	PK
V	15720.090	43.06	10.12	38.80	42.70	49.28	54.00	-4.72	AV
H	4739.015	63.65	7.10	37.24	43.50	64.49	74.00	-9.51	PK
H	4739.015	43.74	7.10	37.24	43.50	44.58	54.00	-9.42	AV
H	10480.026	51.25	8.46	38.57	44.50	53.78	68.20	-14.42	PK
H	10480.026	40.98	8.46	38.57	44.50	43.51	54.00	-10.49	AV
H	15720.111	54.28	10.12	38.38	44.10	58.68	74.00	-15.32	PK
H	15720.111	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) - 802.11 AC40
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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 (5190 MHz)-Above 1G									
V	4434.058	62.47	5.94	35.40	44.00	59.81	74.00	-14.19	PK
V	4434.058	43.43	5.94	35.40	44.00	40.77	54.00	-13.23	AV
V	10380.100	61.83	8.46	39.75	44.50	65.54	68.20	-2.66	PK
V	10380.100	43.60	8.46	39.75	44.50	47.31	54.00	-6.69	AV
V	15570.134	62.60	10.12	38.80	44.10	67.42	74.00	-6.58	PK
V	15570.134	43.96	10.12	38.80	42.70	50.18	54.00	-3.82	AV
H	4434.176	63.36	5.94	35.18	44.00	60.48	74.00	-13.52	PK
H	4434.176	43.43	5.94	35.18	44.00	40.55	54.00	-13.45	AV
H	10380.085	52.71	8.46	38.71	44.50	55.38	68.20	-12.82	PK
H	10380.085	42.09	8.46	38.71	44.50	44.76	54.00	-9.24	AV
H	15570.063	54.93	10.12	38.38	44.10	59.33	74.00	-14.67	PK
H	15570.063	43.09	10.12	38.38	44.10	47.49	54.00	-6.51	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.153	61.06	6.48	36.35	44.05	59.84	74.00	-14.16	PK
V	4739.153	43.58	6.48	36.35	44.05	42.36	54.00	-11.64	AV
V	10460.074	60.12	8.47	37.88	44.51	61.96	68.20	-6.24	PK
V	10460.074	43.31	8.47	37.88	44.51	45.15	54.00	-8.85	AV
V	15690.006	60.52	10.12	38.80	44.10	65.34	74.00	-8.66	PK
V	15690.006	43.99	10.12	38.80	42.70	50.21	54.00	-3.79	AV
H	4739.138	61.42	6.48	36.37	44.05	60.22	74.00	-13.78	PK
H	4739.138	43.38	6.48	36.37	44.05	42.18	54.00	-11.82	AV
H	10460.054	52.34	8.47	38.64	44.50	54.95	68.20	-13.25	PK
H	10460.054	44.29	8.47	38.64	44.50	46.90	54.00	-7.10	AV
H	15690.058	52.77	10.12	38.38	44.10	57.17	74.00	-16.83	PK
H	15690.058	40.35	10.12	38.38	44.10	44.75	54.00	-9.25	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)	Antenn a Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5210 MHz)-Above 1G									
V	4434.187	64.76	5.94	35.40	44.00	62.10	74.00	-11.90	PK
V	4434.187	43.67	5.94	35.40	44.00	41.01	54.00	-12.99	AV
V	10420.169	63.84	8.46	39.75	44.50	67.55	68.20	-0.65	PK
V	10420.169	43.84	8.46	39.75	44.50	47.55	54.00	-6.45	AV
V	15630.072	63.75	10.12	38.80	44.10	68.57	74.00	-5.43	PK
V	15630.072	43.85	10.12	38.80	42.70	50.07	54.00	-3.93	AV
H	4434.076	60.50	5.94	35.18	44.00	57.62	74.00	-16.38	PK
H	4434.076	43.07	5.94	35.18	44.00	40.19	54.00	-13.81	AV
H	10420.159	51.22	8.46	38.71	44.50	53.89	68.20	-14.31	PK
H	10420.159	43.02	8.46	38.71	44.50	45.69	54.00	-8.31	AV
H	15630.075	53.60	10.12	38.38	44.10	58.00	74.00	-16.00	PK
H	15630.075	44.56	10.12	38.38	44.10	48.96	54.00	-5.04	AV

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

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

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

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

Test Mode :	TX (5.8G) -- 802.11a
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Polar (H/V)	Frequency	Meter Reading	Cable loss	Antenn a Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
V	4679.029	55.23	5.94	35.40	44.00	52.57	74.00	-21.43	PK
V	4679.029	43.67	5.94	35.40	44.00	41.01	54.00	-12.99	AV
V	11490.047	55.96	8.46	39.75	44.50	59.67	68.20	-8.53	PK
V	11490.047	43.69	8.46	39.75	44.50	47.40	54.00	-6.60	AV
V	17235.056	56.75	10.12	38.80	44.10	61.57	74.00	-12.43	PK
V	17235.056	43.28	10.12	38.80	42.70	49.50	54.00	-4.50	AV
H	4679.152	57.12	5.94	35.18	44.00	54.24	74.00	-19.76	PK
H	4679.152	43.38	5.94	35.18	44.00	40.50	54.00	-13.50	AV
H	11490.099	54.30	8.46	38.71	44.50	56.97	68.20	-11.23	PK
H	11490.099	44.34	8.46	38.71	44.50	47.01	54.00	-6.99	AV
H	17235.026	51.45	10.12	38.38	44.10	55.85	74.00	-18.15	PK
H	17235.026	43.28	10.12	38.38	44.10	47.68	54.00	-6.32	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.077	56.90	6.48	36.35	44.05	55.68	74.00	-18.32	PK
V	4592.077	43.13	6.48	36.35	44.05	41.91	54.00	-12.09	AV
V	11570.167	56.47	8.47	37.88	44.51	58.31	68.20	-9.89	PK
V	11570.167	43.98	8.47	37.88	44.51	45.82	54.00	-8.18	AV
V	17355.069	58.87	10.12	38.80	44.10	63.69	74.00	-10.31	PK
V	17355.069	39.96	10.12	38.80	42.70	46.18	54.00	-7.82	AV
H	4592.101	55.18	6.48	36.37	44.05	53.98	74.00	-20.02	PK
H	4592.101	43.14	6.48	36.37	44.05	41.94	54.00	-12.06	AV
H	11570.168	54.61	8.47	38.64	44.50	57.22	68.20	-10.98	PK
H	11570.168	40.86	8.47	38.64	44.50	43.47	54.00	-10.53	AV
H	17355.132	51.34	10.12	38.38	44.10	55.74	74.00	-18.26	PK
H	17355.132	41.46	10.12	38.38	44.10	45.86	54.00	-8.14	AV
High Channel (5825 MHz)-Above 1G									
V	6039.040	59.11	7.10	37.24	43.50	59.95	68.20	-8.25	PK
V	6039.040	43.95	7.10	37.24	43.50	44.79	54.00	-9.21	AV
V	11650.185	60.22	8.46	37.68	44.50	61.86	74.00	-12.14	PK
V	11650.185	43.92	8.46	37.68	44.50	45.56	54.00	-8.44	AV
V	17475.059	54.53	10.12	38.80	44.10	59.35	68.20	-8.85	PK
V	17475.059	43.19	10.12	38.80	42.70	49.41	54.00	-4.59	AV
H	6039.059	54.99	7.10	37.24	43.50	55.83	68.20	-12.37	PK
H	6039.059	43.95	7.10	37.24	43.50	44.79	54.00	-9.21	AV
H	11650.067	50.95	8.46	38.57	44.50	53.48	74.00	-20.52	PK
H	11650.067	40.73	8.46	38.57	44.50	43.26	54.00	-10.74	AV
H	17475.147	50.17	10.12	38.38	44.10	54.57	68.20	-13.63	PK
H	17475.147	42.52	10.12	38.38	44.10	46.92	54.00	-7.08	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 (5.8G) --802.11n-HT20
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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 (5745 MHz)-Above 1G									
V	4679.137	56.77	5.94	35.40	44.00	54.11	74.00	-19.89	PK
V	4679.137	43.06	5.94	35.40	44.00	40.40	54.00	-13.60	AV
V	11490.086	56.24	8.46	39.75	44.50	59.95	68.20	-8.25	PK
V	11490.086	43.59	8.46	39.75	44.50	47.30	54.00	-6.70	AV
V	17235.036	57.23	10.12	38.80	44.10	62.05	74.00	-11.95	PK
V	17235.036	43.24	10.12	38.80	42.70	49.46	54.00	-4.54	AV
H	4679.022	58.17	5.94	35.18	44.00	55.29	74.00	-18.71	PK
H	4679.022	43.88	5.94	35.18	44.00	41.00	54.00	-13.00	AV
H	11490.093	50.77	8.46	38.71	44.50	53.44	68.20	-14.76	PK
H	11490.093	42.56	8.46	38.71	44.50	45.23	54.00	-8.77	AV
H	17235.161	52.28	10.12	38.38	44.10	56.68	74.00	-17.32	PK
H	17235.161	40.90	10.12	38.38	44.10	45.30	54.00	-8.70	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.075	61.55	6.48	36.35	44.05	60.33	74.00	-13.67	PK
V	4592.075	43.23	6.48	36.35	44.05	42.01	54.00	-11.99	AV
V	11570.147	56.48	8.47	37.88	44.51	58.32	68.20	-9.88	PK
V	11570.147	43.69	8.47	37.88	44.51	45.53	54.00	-8.47	AV
V	17355.155	58.25	10.12	38.80	44.10	63.07	74.00	-10.93	PK
V	17355.155	43.90	10.12	38.80	42.70	50.12	54.00	-3.88	AV
H	4592.125	56.02	6.48	36.37	44.05	54.82	74.00	-19.18	PK
H	4592.125	43.49	6.48	36.37	44.05	42.29	54.00	-11.71	AV
H	11570.162	51.70	8.47	38.64	44.50	54.31	68.20	-13.89	PK
H	11570.162	44.26	8.47	38.64	44.50	46.87	54.00	-7.13	AV
H	17355.074	53.86	10.12	38.38	44.10	58.26	74.00	-15.74	PK
H	17355.074	43.93	10.12	38.38	44.10	48.33	54.00	-5.67	AV
High Channel (5825 MHz)-Above 1G									
V	6039.174	59.74	7.10	37.24	43.50	60.58	68.20	-7.62	PK
V	6039.174	43.01	7.10	37.24	43.50	43.85	54.00	-10.15	AV
V	11650.190	58.88	8.46	37.68	44.50	60.52	74.00	-13.48	PK
V	11650.190	43.41	8.46	37.68	44.50	45.05	54.00	-8.95	AV
V	17475.074	59.37	10.12	38.80	44.10	64.19	68.20	-4.01	PK
V	17475.074	43.43	10.12	38.80	42.70	49.65	54.00	-4.35	AV
H	6039.068	56.13	7.10	37.24	43.50	56.97	68.20	-11.23	PK
H	6039.068	43.49	7.10	37.24	43.50	44.33	54.00	-9.67	AV
H	11650.016	50.40	8.46	38.57	44.50	52.93	74.00	-21.07	PK
H	11650.016	43.07	8.46	38.57	44.50	45.60	54.00	-8.40	AV
H	17475.196	52.95	10.12	38.38	44.10	57.35	68.20	-10.85	PK
H	17475.196	44.79	10.12	38.38	44.10	49.19	54.00	-4.81	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) -- 802.11n-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	4679.163	58.50	5.94	35.40	44.00	55.84	74.00	-18.16	PK
V	4679.163	43.18	5.94	35.40	44.00	40.52	54.00	-13.48	AV
V	11510.136	55.19	8.46	39.75	44.50	58.90	68.20	-9.30	PK
V	11510.136	43.66	8.46	39.75	44.50	47.37	54.00	-6.63	AV
V	17265.088	59.52	10.12	38.80	44.10	64.34	74.00	-9.66	PK
V	17265.088	2.00	10.12	38.80	42.70	8.22	54.00	-45.78	AV
H	4679.048	58.85	5.94	35.18	44.00	55.97	74.00	-18.03	PK
H	4679.048	43.26	5.94	35.18	44.00	40.38	54.00	-13.62	AV
H	11510.152	53.59	8.46	38.71	44.50	56.26	68.20	-11.94	PK
H	11510.152	43.85	8.46	38.71	44.50	46.52	54.00	-7.48	AV
H	17265.193	52.22	10.12	38.38	44.10	56.62	74.00	-17.38	PK
H	17265.193	40.39	10.12	38.38	44.10	44.79	54.00	-9.21	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.025	60.65	6.48	36.35	44.05	59.43	68.20	-8.77	PK
V	6039.025	43.95	6.48	36.35	44.05	42.73	54.00	-11.27	AV
V	11590.172	56.24	8.47	37.88	44.51	58.08	74.00	-15.92	PK
V	11590.172	43.63	8.47	37.88	44.51	45.47	54.00	-8.53	AV
V	17385.098	55.56	10.12	38.80	44.10	60.38	68.20	-7.82	PK
V	17385.098	41.59	10.12	38.80	42.70	47.81	54.00	-6.19	AV
H	6039.003	58.86	6.48	36.37	44.05	57.66	68.20	-10.54	PK
H	6039.003	43.01	6.48	36.37	44.05	41.81	54.00	-12.19	AV
H	11590.062	52.19	8.47	38.64	44.50	54.80	74.00	-19.20	PK
H	11590.062	43.09	8.47	38.64	44.50	45.70	54.00	-8.30	AV
H	17385.146	54.80	10.12	38.38	44.10	59.20	68.20	-9.00	PK
H	17385.146	44.25	10.12	38.38	44.10	48.65	54.00	-5.35	AV

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

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

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

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

Test Mode :	TX (5.8G) --802.11AC20
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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 (5745 MHz)-Above 1G									
V	4679.009	57.25	5.94	35.40	44.00	54.59	74.00	-19.41	PK
V	4679.009	43.39	5.94	35.40	44.00	40.73	54.00	-13.27	AV
V	11490.056	53.21	8.46	39.75	44.50	56.92	68.20	-11.28	PK
V	11490.056	43.41	8.46	39.75	44.50	47.12	54.00	-6.88	AV
V	17235.177	61.62	10.12	38.80	44.10	66.44	74.00	-7.56	PK
V	17235.177	43.59	10.12	38.80	42.70	49.81	54.00	-4.19	AV
H	4679.055	58.65	5.94	35.18	44.00	55.77	74.00	-18.23	PK
H	4679.055	43.10	5.94	35.18	44.00	40.22	54.00	-13.78	AV
H	11490.062	49.34	8.46	38.71	44.50	52.01	68.20	-16.19	PK
H	11490.062	43.10	8.46	38.71	44.50	45.77	54.00	-8.23	AV
H	17235.051	53.63	10.12	38.38	44.10	58.03	74.00	-15.97	PK
H	17235.051	44.43	10.12	38.38	44.10	48.83	54.00	-5.17	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.029	60.24	6.48	36.35	44.05	59.02	74.00	-14.98	PK
V	4592.029	43.14	6.48	36.35	44.05	41.92	54.00	-12.08	AV
V	11570.195	56.45	8.47	37.88	44.51	58.29	68.20	-9.91	PK
V	11570.195	43.49	8.47	37.88	44.51	45.33	54.00	-8.67	AV
V	17355.025	61.32	10.12	38.80	44.10	66.14	74.00	-7.86	PK
V	17355.025	43.16	10.12	38.80	42.70	49.38	54.00	-4.62	AV
H	4592.044	58.38	6.48	36.37	44.05	57.18	74.00	-16.82	PK
H	4592.044	43.92	6.48	36.37	44.05	42.72	54.00	-11.28	AV
H	11570.135	51.35	8.47	38.64	44.50	53.96	68.20	-14.24	PK
H	11570.135	44.46	8.47	38.64	44.50	47.07	54.00	-6.93	AV
H	17355.185	54.15	10.12	38.38	44.10	58.55	74.00	-15.45	PK
H	17355.185	43.98	10.12	38.38	44.10	48.38	54.00	-5.62	AV
High Channel (5825 MHz)-Above 1G									
V	6039.191	57.75	7.10	37.24	43.50	58.59	68.20	-9.61	PK
V	6039.191	43.07	7.10	37.24	43.50	43.91	54.00	-10.09	AV
V	11650.055	57.73	8.46	37.68	44.50	59.37	74.00	-14.63	PK
V	11650.055	43.21	8.46	37.68	44.50	44.85	54.00	-9.15	AV
V	17475.088	59.26	10.12	38.80	44.10	64.08	68.20	-4.12	PK
V	17475.088	43.22	10.12	38.80	42.70	49.44	54.00	-4.56	AV
H	6039.156	58.08	7.10	37.24	43.50	58.92	68.20	-9.28	PK
H	6039.156	43.00	7.10	37.24	43.50	43.84	54.00	-10.16	AV
H	11650.198	52.05	8.46	38.57	44.50	54.58	74.00	-19.42	PK
H	11650.198	43.68	8.46	38.57	44.50	46.21	54.00	-7.79	AV
H	17475.161	53.60	10.12	38.38	44.10	58.00	68.20	-10.20	PK
H	17475.161	41.77	10.12	38.38	44.10	46.17	54.00	-7.83	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	4679.108	60.49	5.94	35.40	44.00	57.83	74.00	-16.17	PK
V	4679.108	43.70	5.94	35.40	44.00	41.04	54.00	-12.96	AV
V	11510.063	55.55	8.46	39.75	44.50	59.26	68.20	-8.94	PK
V	11510.063	43.95	8.46	39.75	44.50	47.66	54.00	-6.34	AV
V	17265.177	59.78	10.12	38.80	44.10	64.60	74.00	-9.40	PK
V	17265.177	2.00	10.12	38.80	42.70	8.22	54.00	-45.78	AV
H	4679.149	57.26	5.94	35.18	44.00	54.38	74.00	-19.62	PK
H	4679.149	43.32	5.94	35.18	44.00	40.44	54.00	-13.56	AV
H	11510.082	52.88	8.46	38.71	44.50	55.55	68.20	-12.65	PK
H	11510.082	40.82	8.46	38.71	44.50	43.49	54.00	-10.51	AV
H	17265.085	52.40	10.12	38.38	44.10	56.80	74.00	-17.20	PK
H	17265.085	43.57	10.12	38.38	44.10	47.97	54.00	-6.03	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.115	56.62	6.48	36.35	44.05	55.40	68.20	-12.80	PK
V	6039.115	43.54	6.48	36.35	44.05	42.32	54.00	-11.68	AV
V	11590.066	57.16	8.47	37.88	44.51	59.00	74.00	-15.00	PK
V	11590.066	43.75	8.47	37.88	44.51	45.59	54.00	-8.41	AV
V	17385.073	55.07	10.12	38.80	44.10	59.89	68.20	-8.31	PK
V	17385.073	41.45	10.12	38.80	42.70	47.67	54.00	-6.33	AV
H	6039.186	60.47	6.48	36.37	44.05	59.27	68.20	-8.93	PK
H	6039.186	43.78	6.48	36.37	44.05	42.58	54.00	-11.42	AV
H	11590.037	51.52	8.47	38.64	44.50	54.13	74.00	-19.87	PK
H	11590.037	42.16	8.47	38.64	44.50	44.77	54.00	-9.23	AV
H	17385.022	54.14	10.12	38.38	44.10	58.54	68.20	-9.66	PK
H	17385.022	44.45	10.12	38.38	44.10	48.85	54.00	-5.15	AV

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

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

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

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

Test Mode :	TX(5.8G) - 802.11 AC80
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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
(5775 MHz)-Above 1G									
V	4679.021	57.12	5.94	35.40	44.00	54.46	74.00	-19.54	PK
V	4679.021	43.89	5.94	35.40	44.00	41.23	54.00	-12.77	AV
V	11550.131	57.21	8.46	39.75	44.50	60.92	68.20	-7.28	PK
V	11550.131	43.49	8.46	39.75	44.50	47.20	54.00	-6.80	AV
V	17325.048	59.52	10.12	38.80	44.10	64.34	74.00	-9.66	PK
V	17325.048	41.34	10.12	38.80	42.70	47.56	54.00	-6.44	AV
H	4679.160	59.93	5.94	35.18	44.00	57.05	74.00	-16.95	PK
H	4679.160	43.98	5.94	35.18	44.00	41.10	54.00	-12.90	AV
H	11550.047	53.99	8.46	38.71	44.50	56.66	68.20	-11.54	PK
H	11550.047	43.27	8.46	38.71	44.50	45.94	54.00	-8.06	AV
H	17325.121	51.29	10.12	38.38	44.10	55.69	74.00	-18.31	PK
H	17325.121	44.61	10.12	38.38	44.10	49.01	54.00	-4.99	AV

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

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

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

Corrected Reading: Antenna Factor + Cable Loss + Read Level - 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

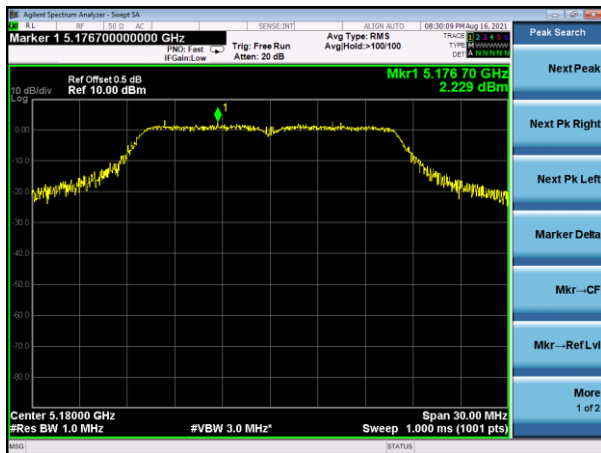
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

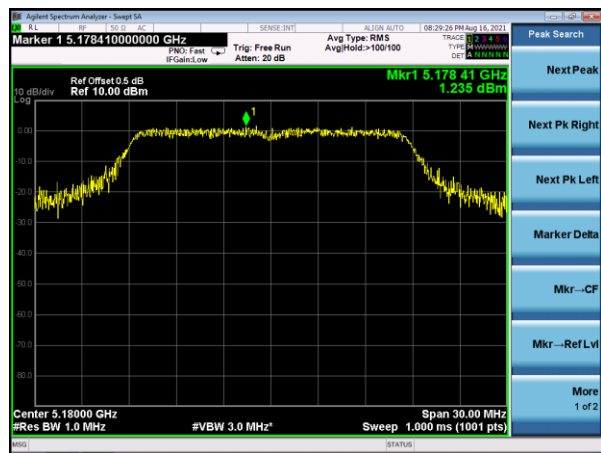
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

Test Mode	Frequency	Measured Power Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11 a	5180 MHz	2.229	11	PASS
	5200 MHz	1.571	11	PASS
	5240 MHz	1.221	11	PASS
802.11 n20	5180 MHz	1.235	11	PASS
	5200 MHz	2.233	11	PASS
	5240 MHz	-1.089	11	PASS
802.11 n40	5190 MHz	-0.633	11	PASS
	5230 MHz	-1.263	11	PASS
802.11 AC20	5180 MHz	0.853	11	PASS
	5200 MHz	-0.843	11	PASS
	5240 MHz	-0.741	11	PASS
802.11 AC40	5190 MHz	-0.559	11	PASS
	5230 MHz	-1.226	11	PASS
802.11 AC80	5210 MHz	-6.879	11	PASS

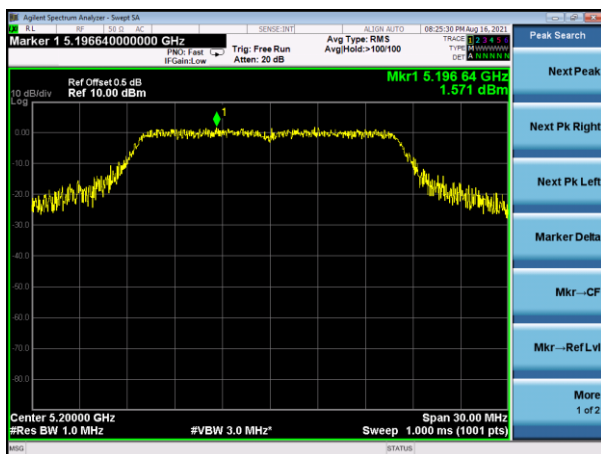
(802.11a) PSD plot on channel 36



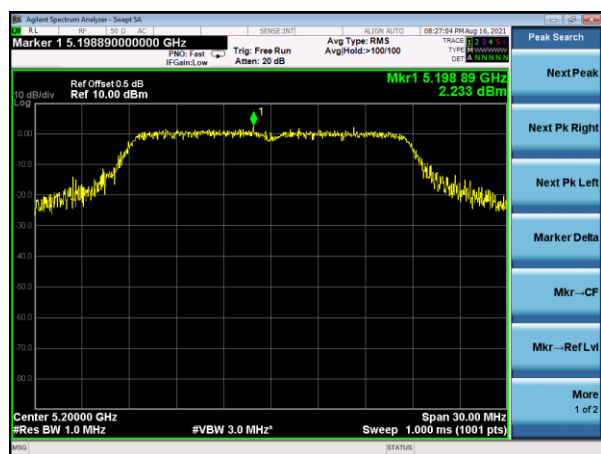
(802.11n20) PSD plot on channel 36



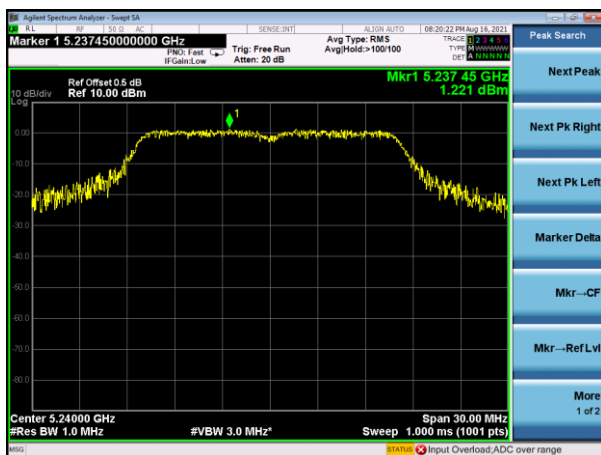
(802.11a) PSD plot on channel 40



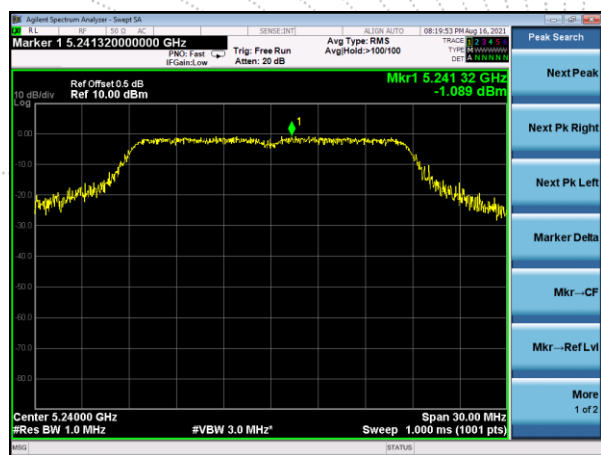
(802.11n20) PSD plot on channel 40



(802.11a) PSD plot on channel 48



(802.11n20) PSD plot on channel 48



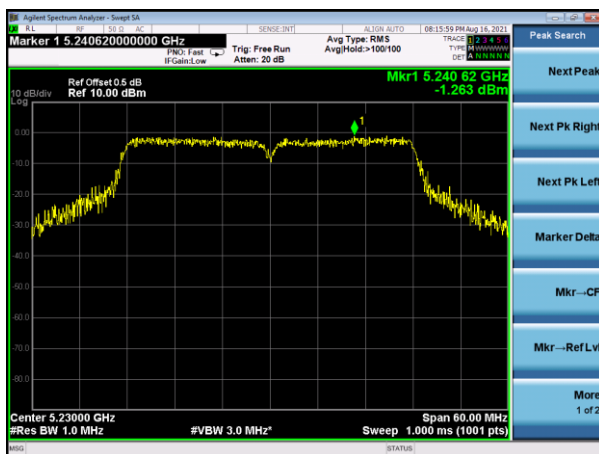
(802.11n40) PSD plot on channel 38



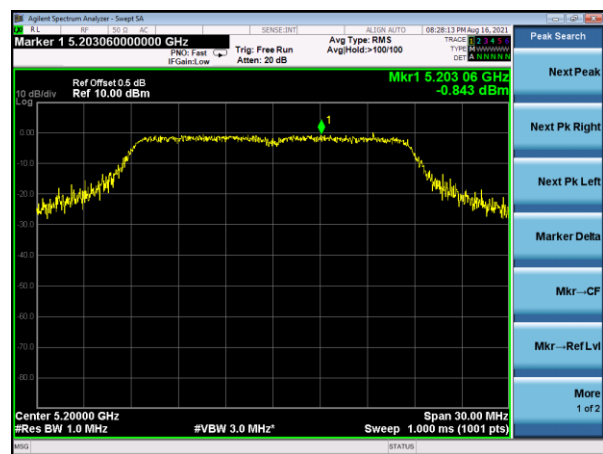
(802.11ac20) PSD plot on channel 36



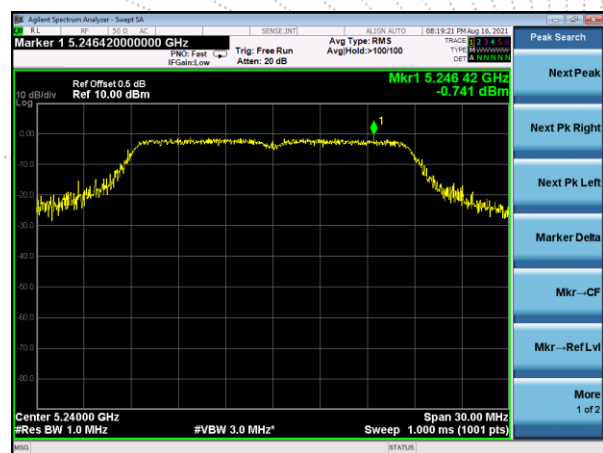
(802.11n40) PSD plot on channel 46



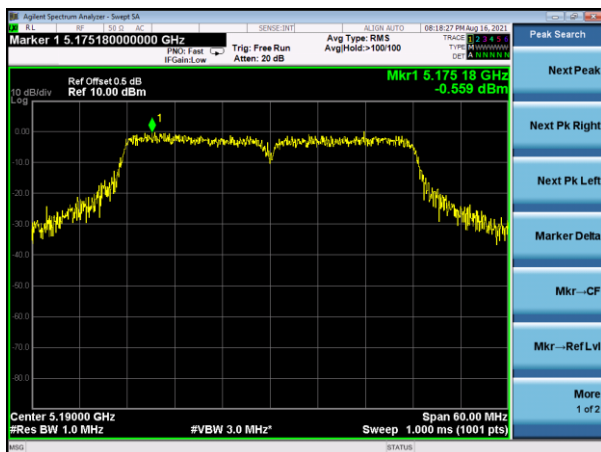
(802.11ac20) PSD plot on channel 40



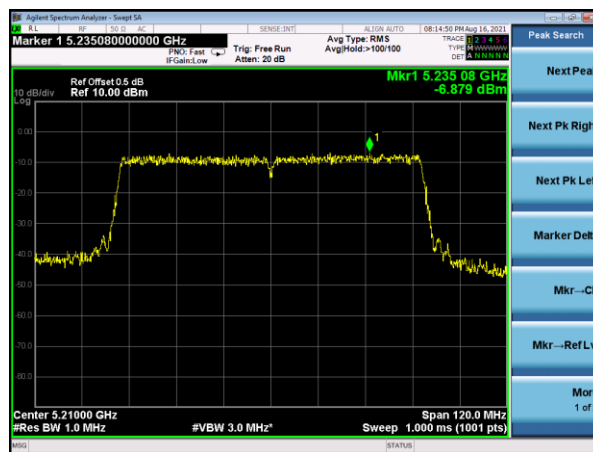
(802.11ac20) PSD plot on channel 48



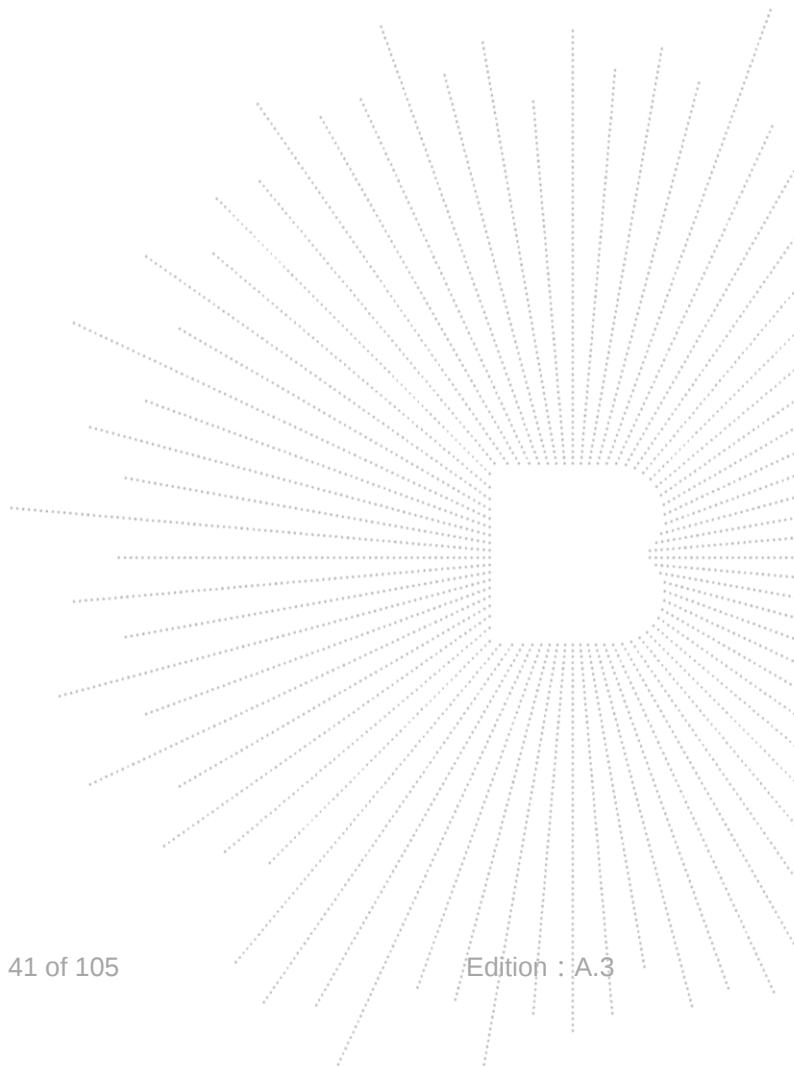
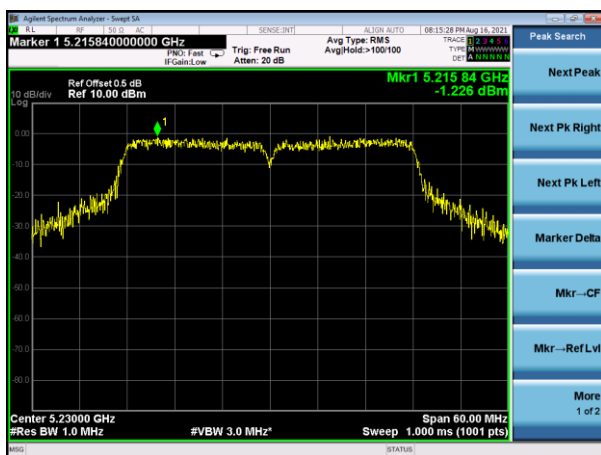
(802.11ac40) PSD plot on channel 38



(802.11ac80) PSD plot on channel 42



(802.11ac40) PSD plot on channel 46



Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX Frequency U-NII-3 (5745-5825MHz)		

Test Mode	Frequency	Measured Power Density (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11 a	5745 MHz	5.481	30	PASS
	5785 MHz	4.273	30	PASS
	5825 MHz	4.391	30	PASS
802.11 n20	5745 MHz	2.599	30	PASS
	5785 MHz	2.319	30	PASS
	5825 MHz	2.456	30	PASS
802.11 n40	5755 MHz	6.032	30	PASS
	5795 MHz	4.616	30	PASS
802.11 AC20	5745 MHz	2.660	30	PASS
	5785 MHz	2.425	30	PASS
	5825 MHz	2.632	30	PASS
802.11 AC40	5755 MHz	6.065	30	PASS
	5795 MHz	5.262	30	PASS
802.11 AC80	5775 MHz	2.434	30	PASS

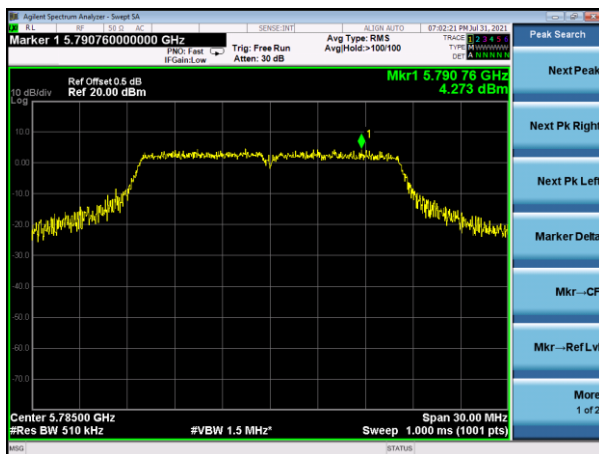
(802.11a) PSD plot on channel 149



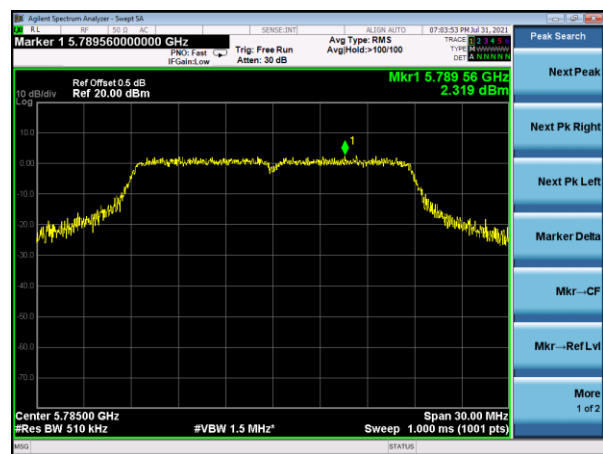
(802.11n20) PSD plot on channel 149



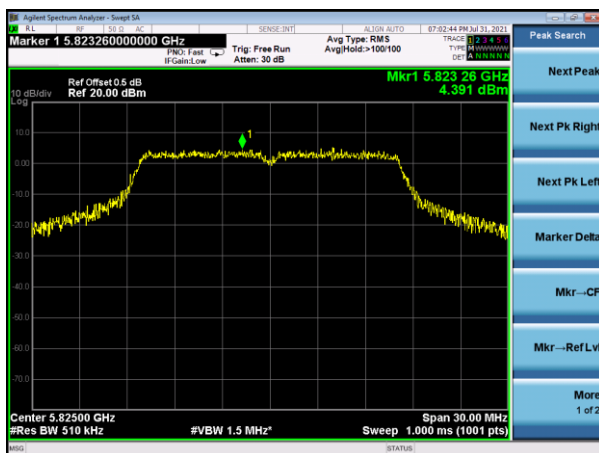
(802.11a) PSD plot on channel 157



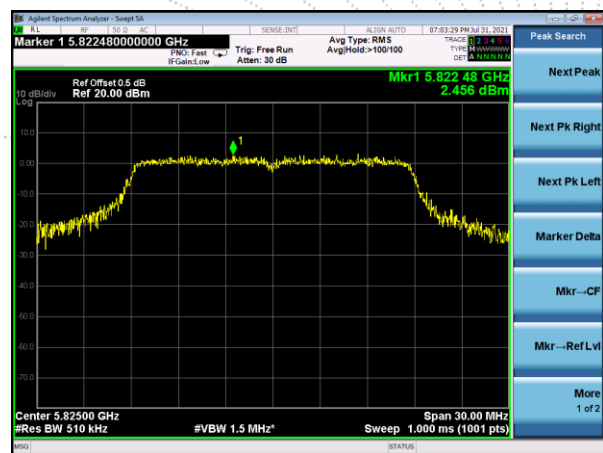
(802.11n20) PSD plot on channel 157



(802.11a) PSD plot on channel 165



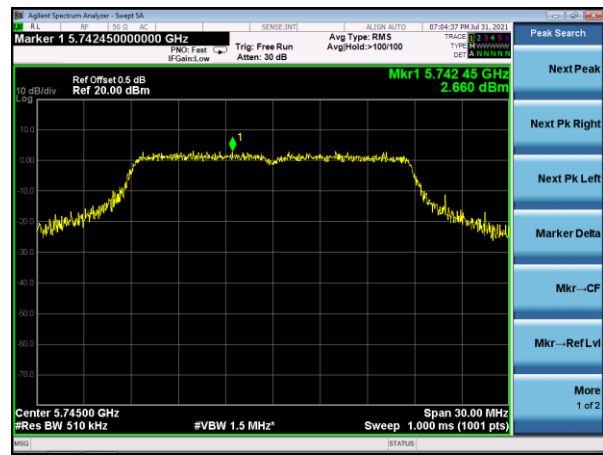
(802.11n20) PSD plot on channel 165



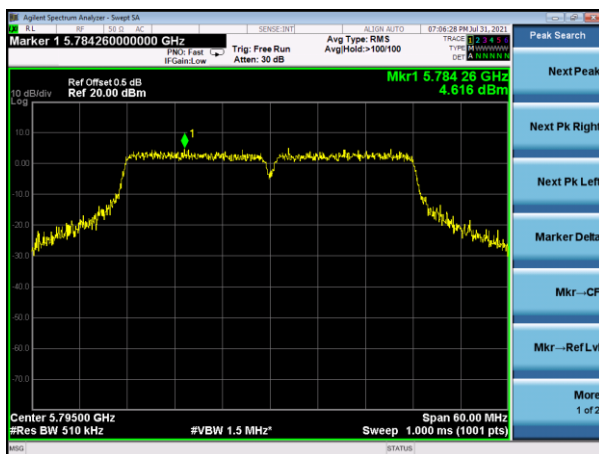
(802.11n40) PSD plot on channel 151



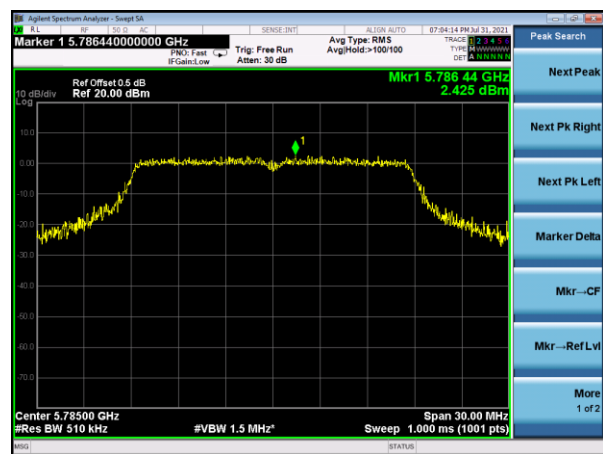
(802.11ac20) PSD plot on channel 149



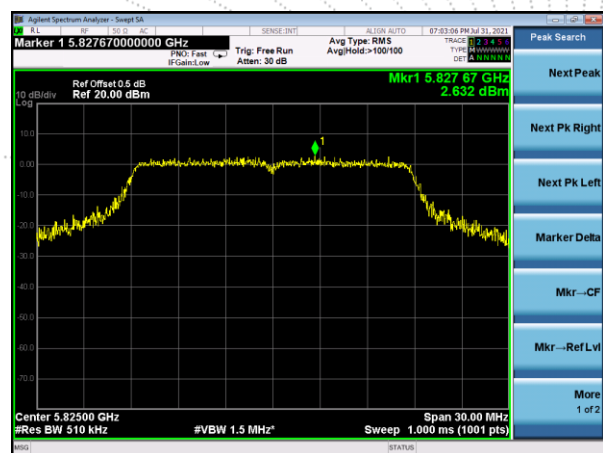
(802.11n40) PSD plot on channel 159



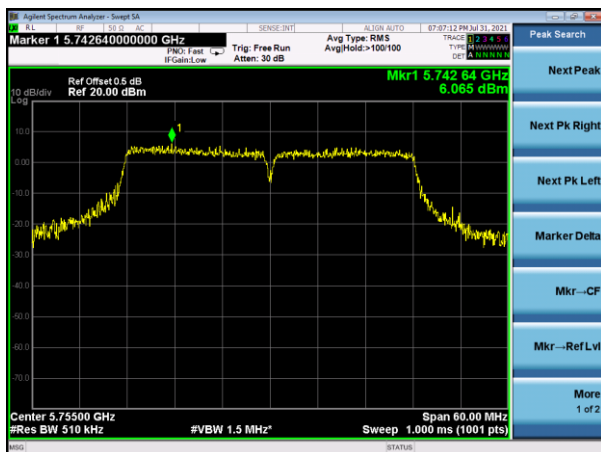
(802.11ac20) PSD plot on channel 157



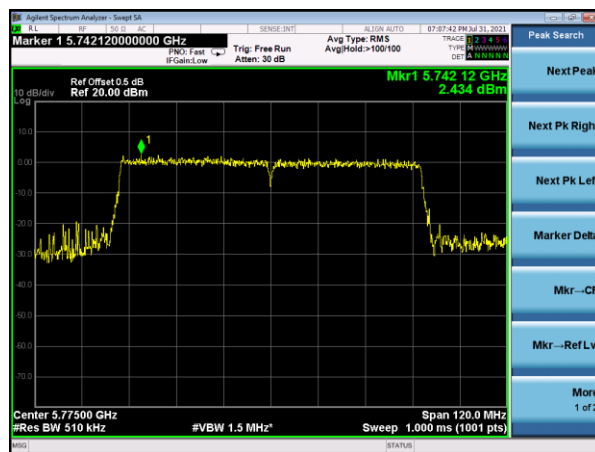
(802.11ac20) PSD plot on channel 165



(802.11ac40) PSD plot on channel 151



(802.11ac80) PSD plot on channel 155



(802.11ac40) PSD plot on channel 159

