

TEST REPORT

Report No.: BCTC2108341469-4E

Applicant: A-ELEKTRONIK D.O.O.

Product Name: SPRINTSHIELD

Model/Type Ref.: S2II

Tested Date: 2021-08-10 to 2021-10-18

Issued Date: 2021-10-18

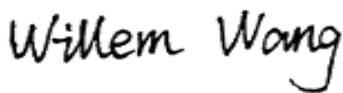
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AU9-S2II

Product Name: SPRINTSHIELD
Trademark: SPRINTSHIELD
Model/Type Ref.: S2II
Prepared For: A-ELEKTRONIK D.O.O.
Address: HINKA WUERTHA 12, 10000 ZAGREB, CROATIA
Manufacturer: A-ELEKTRONIK D.O.O.
Address: HINKA WUERTHA 12, 10000 ZAGREB, CROATIA
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Sample Received Date: 2021-08-10
Sample tested Date: 2021-08-10 to 2021-10-18
Issue Date: 2021-10-18
Report No.: BCTC2108341469-4E
FCC Part15 15.407
Test Standards ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results PASS

Tested by:



Willem Wang/Project Handler

Approved by:



Zero Zhou/Reviewer

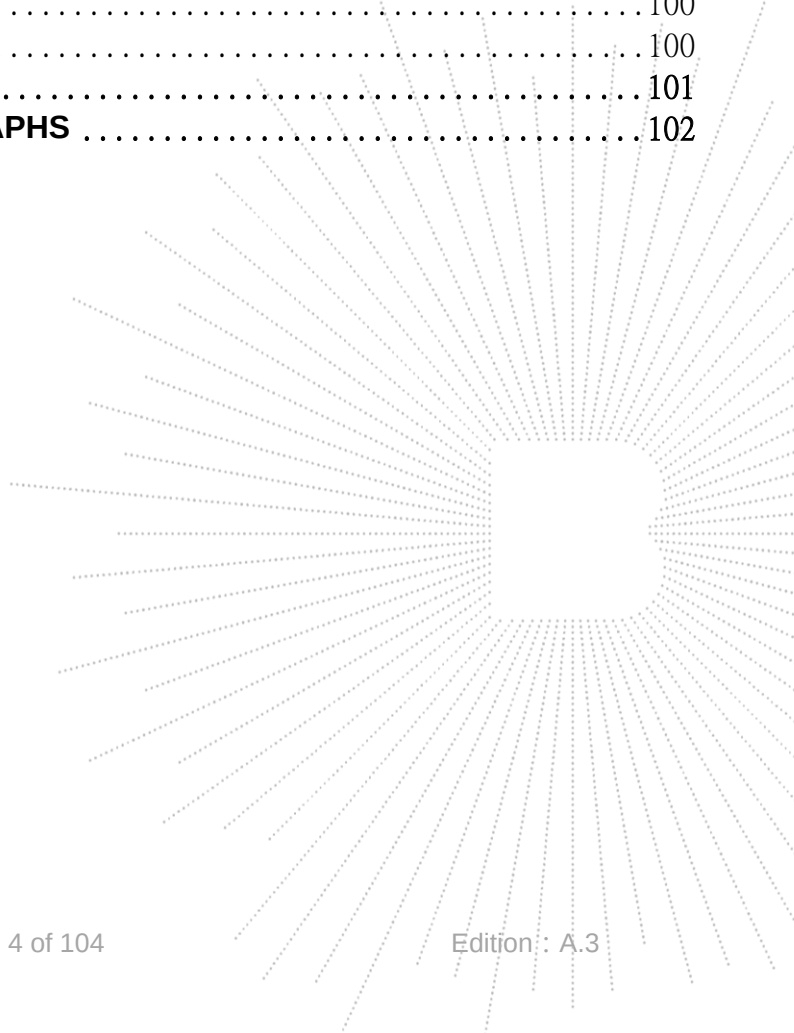
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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2108341469-4E	2021-10-18	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)(9)	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
10	Frequency Stability	15.407(g)	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

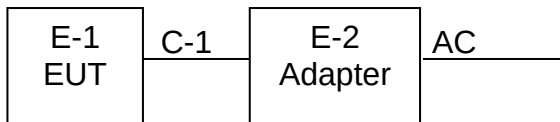
4.1 Product Information

Model/Type Ref.:	S2II
Model differences:	N/A
Hardware Version:	DVT2
Software Version:	V05
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:	Internal antenna
Antenna Gain:	1.73dBi
Type of device:	client devices
Ratings:	DC 5V from Adapter DC 3.8V from Battery
Adapter:	Input: DC 12V from DC Power Output: DC 5V 3A

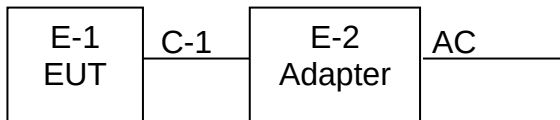
4.2 Test Setup Configuration

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	SPRINTSHIELD	SPRINTSHIELD	S2II	N/A	EUT
E-2	Adapter	N/A	BCTC00	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8M	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

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

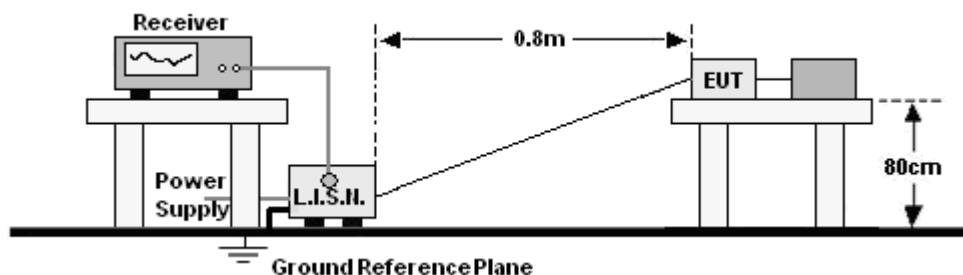
Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
ISN	HPX	ISN T800	S150900 1	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CO N 3A1	\	\

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-26.5G Hz	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:		
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

a. 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).

b. 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.

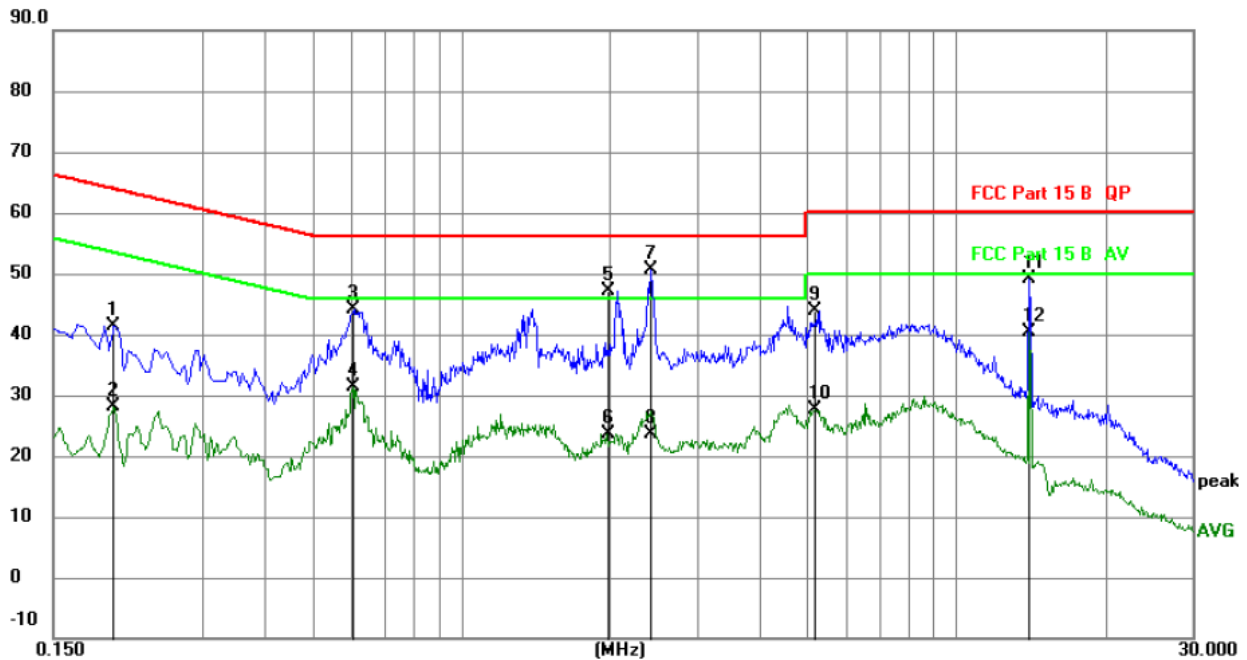
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

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 :	AC 120V/60Hz	Test Mode :	Mode 4

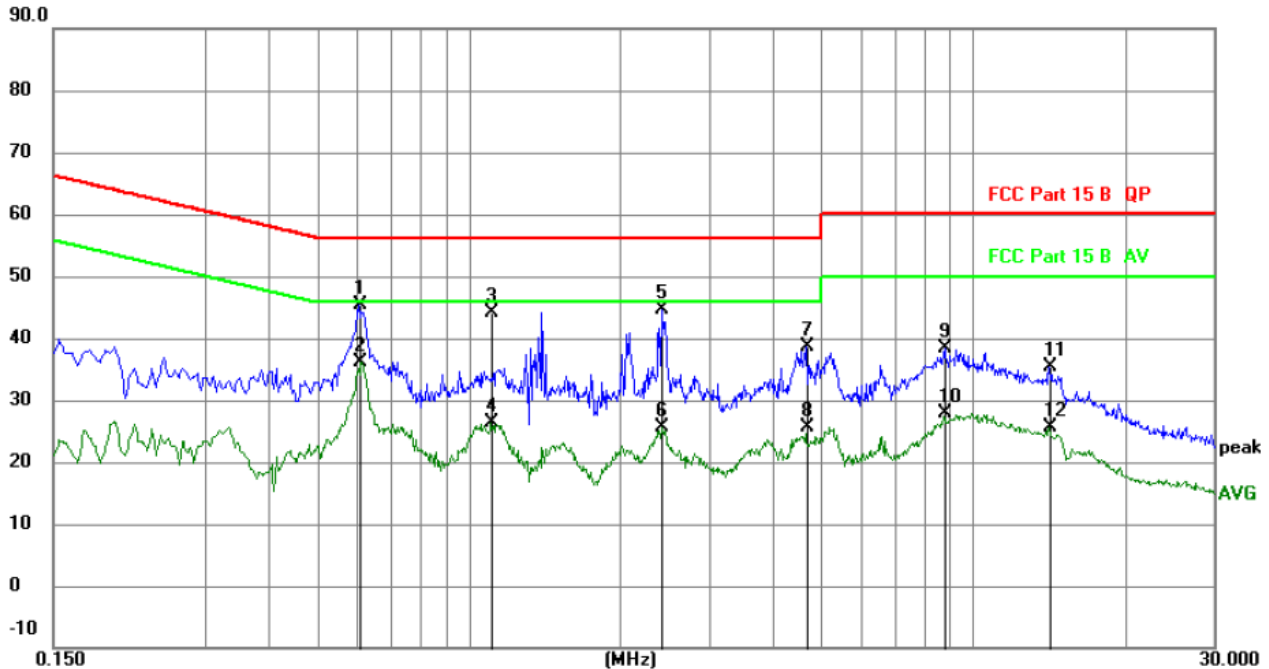


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz			dBuV	dBuV	dB	Detector
1		0.1986	31.88	9.61	41.49	63.67	-22.18	QP
2		0.1986	18.56	9.61	28.17	53.67	-25.50	AVG
3		0.6043	34.46	9.62	44.08	56.00	-11.92	QP
4		0.6043	21.69	9.62	31.31	46.00	-14.69	AVG
5		1.9697	37.46	9.63	47.09	56.00	-8.91	QP
6		1.9697	14.12	9.63	23.75	46.00	-22.25	AVG
7	*	2.4090	40.98	9.64	50.62	56.00	-5.38	QP
8		2.4090	13.88	9.64	23.52	46.00	-22.48	AVG
9		5.1937	34.24	9.71	43.95	60.00	-16.05	QP
10		5.1937	17.91	9.71	27.62	50.00	-22.38	AVG
11		13.9886	39.24	9.78	49.02	60.00	-10.98	QP
12		13.9886	30.72	9.78	40.50	50.00	-9.50	AVG

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



Remark:

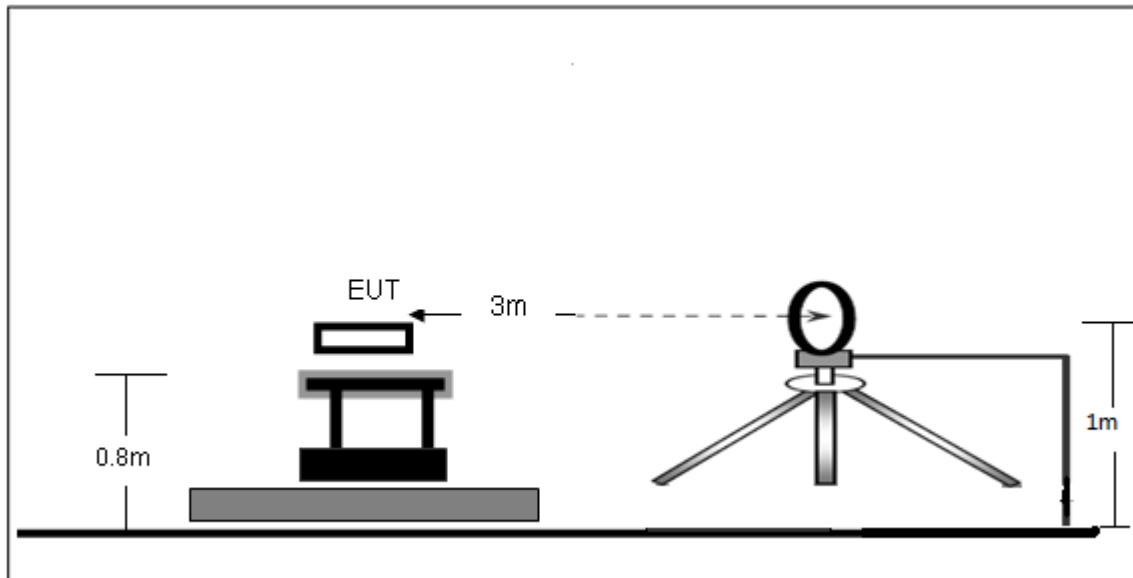
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.6045	35.83	9.62	45.45	56.00	-10.55	QP
2	*	0.6045	26.45	9.62	36.07	46.00	-9.93	AVG
3		1.1085	34.56	9.63	44.19	56.00	-11.81	QP
4		1.1085	16.80	9.63	26.43	46.00	-19.57	AVG
5		2.4135	34.95	9.64	44.59	56.00	-11.41	QP
6		2.4135	16.03	9.64	25.67	46.00	-20.33	AVG
7		4.6815	28.85	9.70	38.55	56.00	-17.45	QP
8		4.6815	16.04	9.70	25.74	46.00	-20.26	AVG
9		8.7810	28.69	9.78	38.47	60.00	-21.53	QP
10		8.7810	18.00	9.78	27.78	50.00	-22.22	AVG
11		14.1405	25.62	9.78	35.40	60.00	-24.60	QP
12		14.1405	15.83	9.78	25.61	50.00	-24.39	AVG

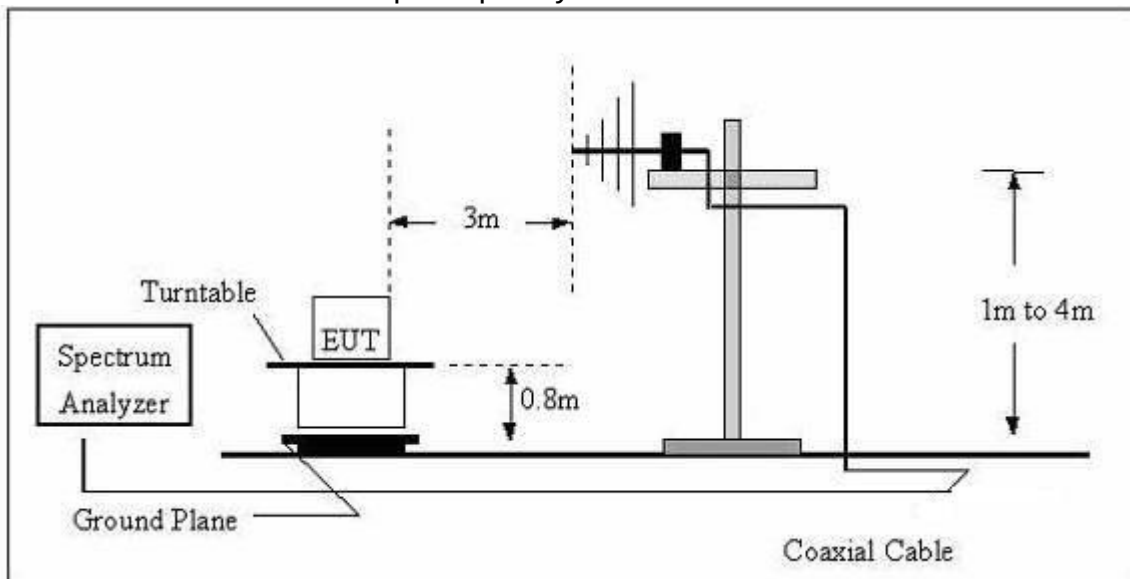
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

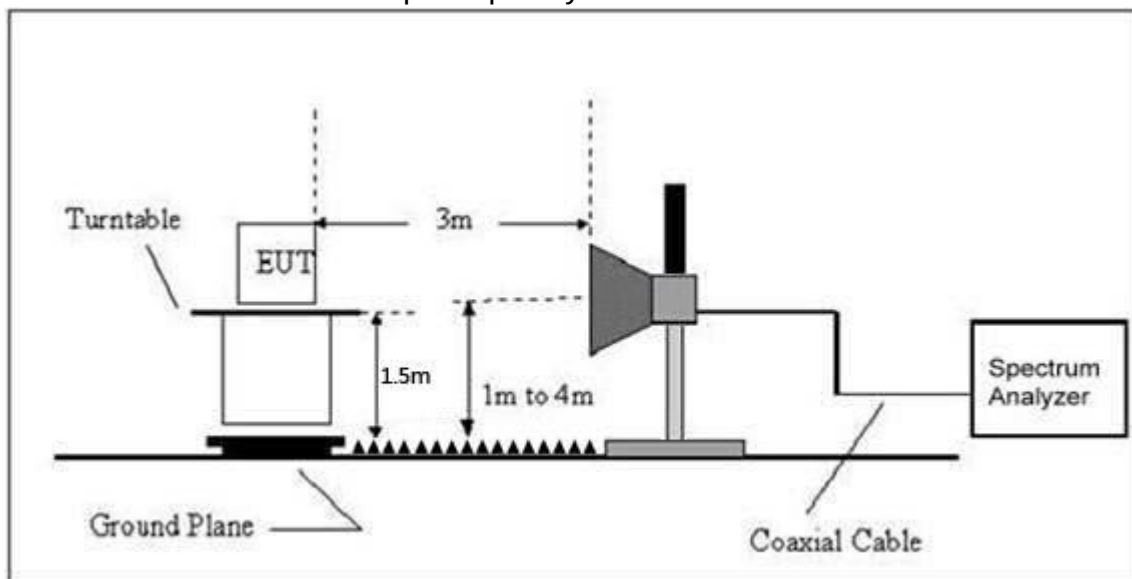
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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	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

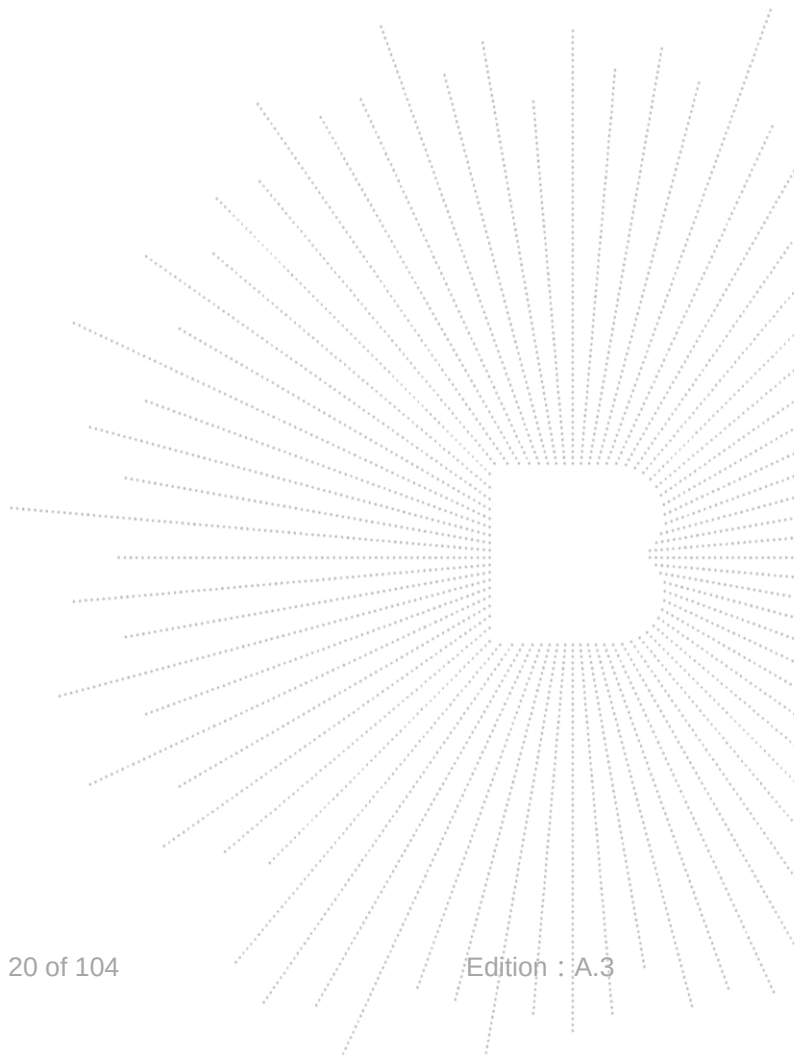
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

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 :	AC 120V/60Hz
Test Mode :	Mode 4	Polarization :	--

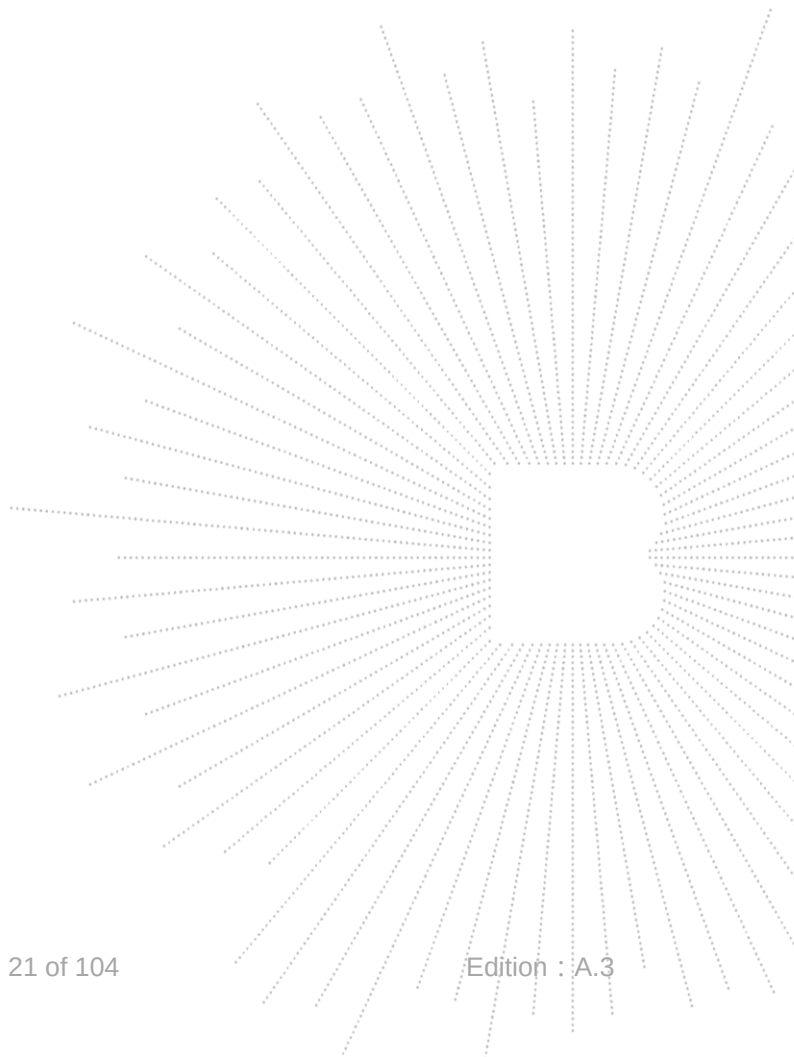
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

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

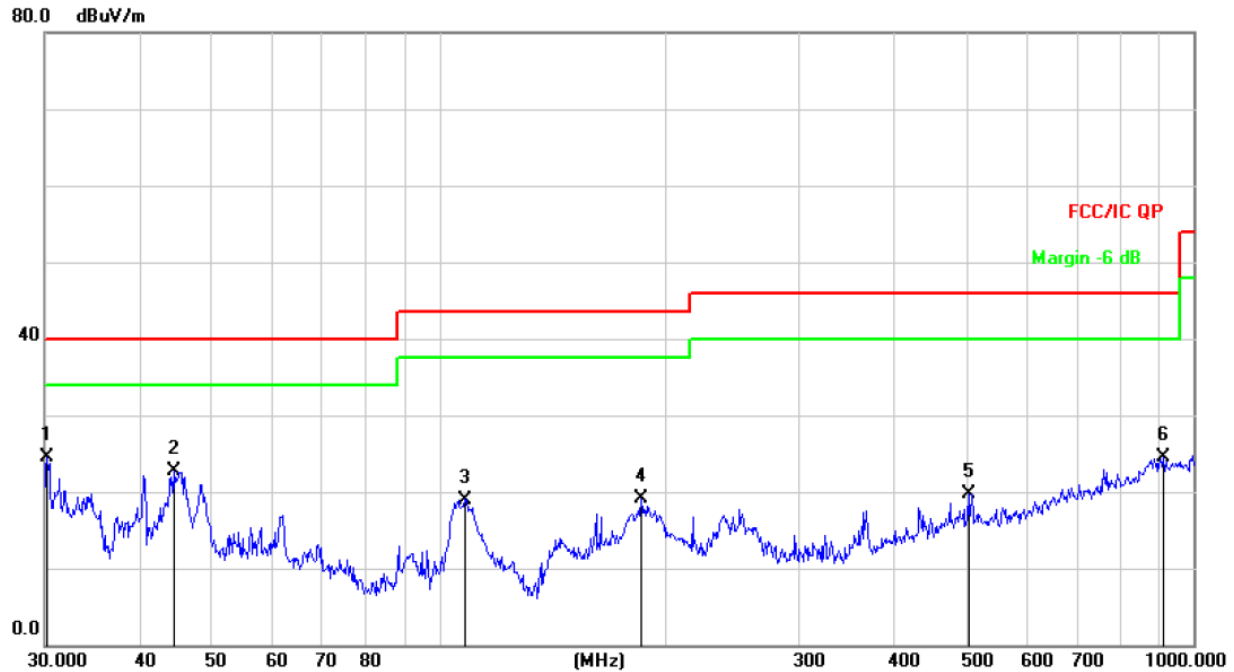
Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

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



Between 30MHz – 1GHz

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

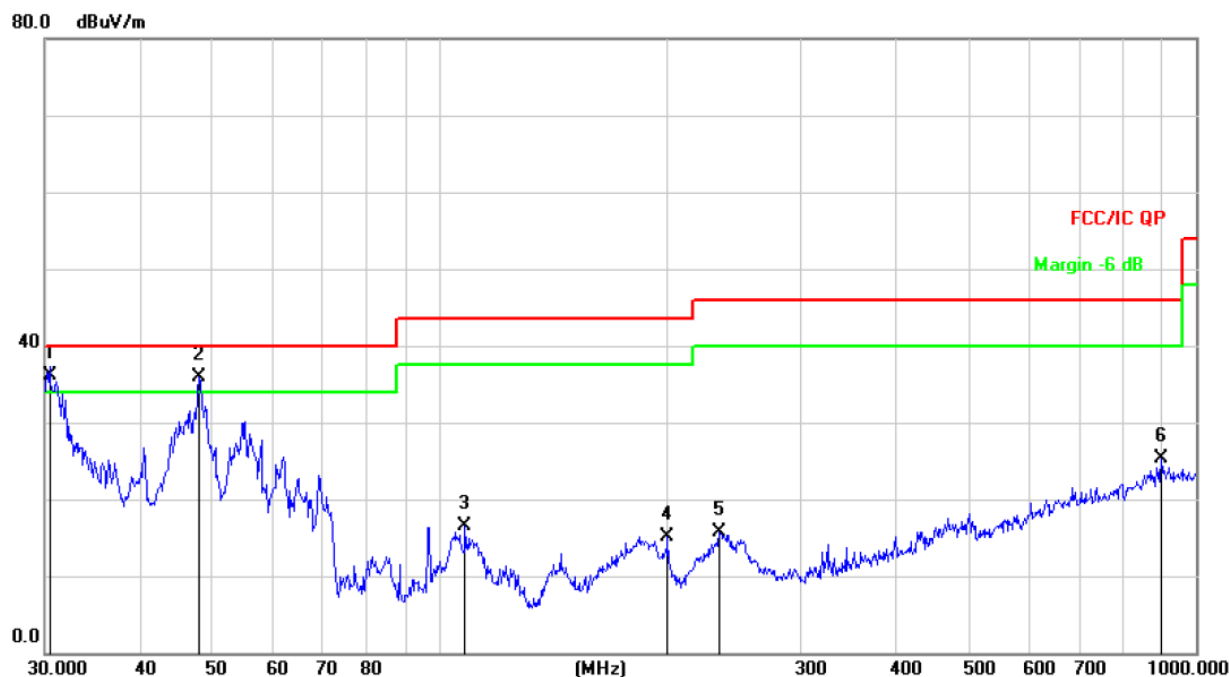


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	30.2111	42.92	-18.42	24.50	40.00	-15.50	QP
2		44.4308	38.85	-16.24	22.61	40.00	-17.39	QP
3		108.2667	35.69	-16.69	19.00	43.50	-24.50	QP
4		185.1379	35.70	-16.65	19.05	43.50	-24.45	QP
5		502.9395	28.02	-8.24	19.78	46.00	-26.22	QP
6		912.8618	24.11	0.45	24.56	46.00	-21.44	QP

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



Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	30.4238	54.48	-18.38	36.10	40.00	-3.90	QP
2	!	47.9940	51.62	-15.72	35.90	40.00	-4.10	QP
3		107.8876	33.20	-16.66	16.54	43.50	-26.96	QP
4		199.9856	30.59	-15.45	15.14	43.50	-28.36	QP
5		234.1682	30.56	-14.90	15.66	46.00	-30.34	QP
6		900.1471	24.87	0.46	25.33	46.00	-20.67	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	4434.115	61.11	5.94	35.40	44.00	58.45	68.20	-9.75	PK
V	4434.115	43.12	5.94	35.40	44.00	40.46	54.00	-13.54	AV
V	10360.120	58.50	8.46	39.75	44.50	62.21	68.20	-5.99	PK
V	10360.120	43.42	8.46	39.75	44.50	47.13	54.00	-6.87	AV
V	15540.098	61.56	10.12	38.80	44.10	66.38	74.00	-7.62	PK
V	15540.098	43.59	10.12	38.80	42.70	49.81	54.00	-4.19	AV
H	4434.101	62.61	5.94	35.18	44.00	59.73	68.20	-8.47	PK
H	4434.101	43.31	5.94	35.18	44.00	40.43	54.00	-13.57	AV
H	10360.056	53.98	8.46	38.71	44.50	56.65	68.20	-11.55	PK
H	10360.056	43.00	8.46	38.71	44.50	45.67	54.00	-8.33	AV
H	15540.112	51.69	10.12	38.38	44.10	56.09	74.00	-17.91	PK
H	15540.112	43.34	10.12	38.38	44.10	47.74	54.00	-6.26	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.148	62.08	6.48	36.35	44.05	60.86	74.00	-13.14	PK
V	4592.148	43.32	6.48	36.35	44.05	42.10	54.00	-11.90	AV
V	10400.008	61.48	8.47	37.88	44.51	63.32	68.20	-4.88	PK
V	10400.008	43.30	8.47	37.88	44.51	45.14	54.00	-8.86	AV
V	15600.068	62.08	10.12	38.80	44.10	66.90	74.00	-7.10	PK
V	15600.068	43.98	10.12	38.80	42.70	50.20	54.00	-3.80	AV
H	4592.160	61.85	6.48	36.37	44.05	60.65	74.00	-13.35	PK
H	4592.160	43.07	6.48	36.37	44.05	41.87	54.00	-12.13	AV
H	10400.031	53.71	8.47	38.64	44.50	56.32	68.20	-11.88	PK
H	10400.031	42.31	8.47	38.64	44.50	44.92	54.00	-9.08	AV
H	15600.011	52.13	10.12	38.38	44.10	56.53	74.00	-17.47	PK
H	15600.011	43.55	10.12	38.38	44.10	47.95	54.00	-6.05	AV
High Channel (5240 MHz)-Above 1G									
V	4739.163	62.08	7.10	37.24	43.50	62.92	74.00	-11.08	PK
V	4739.163	43.35	7.10	37.24	43.50	44.19	54.00	-9.81	AV
V	10480.156	62.63	8.46	37.68	44.50	64.27	68.20	-3.93	PK
V	10480.156	43.19	8.46	37.68	44.50	44.83	54.00	-9.17	AV
V	15720.129	61.34	10.12	38.80	44.10	66.16	74.00	-7.84	PK
V	15720.129	43.01	10.12	38.80	42.70	49.23	54.00	-4.77	AV
H	4739.029	61.17	7.10	37.24	43.50	62.01	74.00	-11.99	PK
H	4739.029	43.67	7.10	37.24	43.50	44.51	54.00	-9.49	AV
H	10480.120	51.64	8.46	38.57	44.50	54.17	68.20	-14.03	PK
H	10480.120	43.26	8.46	38.57	44.50	45.79	54.00	-8.21	AV
H	15720.064	53.92	10.12	38.38	44.10	58.32	74.00	-15.68	PK
H	15720.064	41.67	10.12	38.38	44.10	46.07	54.00	-7.93	AV

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

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

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

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

The worst case is Antenna A.

Test Mode :	TX(5.1G) - 802.11n-HT20
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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 (5180 MHz)-Above 1G									
V	4434.025	60.45	5.94	35.40	44.00	57.79	68.20	-10.41	PK
V	4434.025	43.83	5.94	35.40	44.00	41.17	54.00	-12.83	AV
V	10360.197	62.16	8.46	39.75	44.50	65.87	68.20	-2.33	PK
V	10360.197	43.21	8.46	39.75	44.50	46.92	54.00	-7.08	AV
V	15540.014	60.35	10.12	38.80	44.10	65.17	74.00	-8.83	PK
V	15540.014	43.55	10.12	38.80	42.70	49.77	54.00	-4.23	AV
H	4434.037	64.71	5.94	35.18	44.00	61.83	68.20	-6.37	PK
H	4434.037	43.53	5.94	35.18	44.00	40.65	54.00	-13.35	AV
H	10360.051	51.95	8.46	38.71	44.50	54.62	68.20	-13.58	PK
H	10360.051	40.01	8.46	38.71	44.50	42.68	54.00	-11.32	AV
H	15540.136	53.36	10.12	38.38	44.10	57.76	74.00	-16.24	PK
H	15540.136	40.62	10.12	38.38	44.10	45.02	54.00	-8.98	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.002	63.11	6.48	36.35	44.05	61.89	74.00	-12.11	PK
V	4592.002	43.72	6.48	36.35	44.05	42.50	54.00	-11.50	AV
V	10400.116	64.26	8.47	37.88	44.51	66.10	68.20	-2.10	PK
V	10400.116	43.45	8.47	37.88	44.51	45.29	54.00	-8.71	AV
V	15600.036	64.92	10.12	38.80	44.10	69.74	74.00	-4.26	PK
V	15600.036	43.38	10.12	38.80	42.70	49.60	54.00	-4.40	AV
H	4592.033	63.70	6.48	36.37	44.05	62.50	74.00	-11.50	PK
H	4592.033	43.54	6.48	36.37	44.05	42.34	54.00	-11.66	AV
H	10400.186	54.42	8.47	38.64	44.50	57.03	68.20	-11.17	PK
H	10400.186	43.61	8.47	38.64	44.50	46.22	54.00	-7.78	AV
H	15600.095	54.18	10.12	38.38	44.10	58.58	74.00	-15.42	PK
H	15600.095	41.91	10.12	38.38	44.10	46.31	54.00	-7.69	AV
High Channel (5240 MHz)-Above 1G									
V	4739.160	63.61	7.10	37.24	43.50	64.45	74.00	-9.55	PK
V	4739.160	43.95	7.10	37.24	43.50	44.79	54.00	-9.21	AV
V	10480.035	62.58	8.46	37.68	44.50	64.22	68.20	-3.98	PK
V	10480.035	43.51	8.46	37.68	44.50	45.15	54.00	-8.85	AV
V	15720.077	63.16	10.12	38.80	44.10	67.98	74.00	-6.02	PK
V	15720.077	43.64	10.12	38.80	42.70	49.86	54.00	-4.14	AV
H	4739.011	63.09	7.10	37.24	43.50	63.93	74.00	-10.07	PK
H	4739.011	43.29	7.10	37.24	43.50	44.13	54.00	-9.87	AV
H	10480.076	52.71	8.46	38.57	44.50	55.24	68.20	-12.96	PK
H	10480.076	41.19	8.46	38.57	44.50	43.72	54.00	-10.28	AV
H	15720.175	54.08	10.12	38.38	44.10	58.48	74.00	-15.52	PK
H	15720.175	44.44	10.12	38.38	44.10	48.84	54.00	-5.16	AV

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

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

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

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

Test Mode is MIMO Mode.

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	4434.085	62.52	5.94	35.40	44.00	59.86	68.20	-8.34	PK
V	4434.085	43.19	5.94	35.40	44.00	40.53	54.00	-13.47	AV
V	10380.196	61.58	8.46	39.75	44.50	65.29	68.20	-2.91	PK
V	10380.196	43.86	8.46	39.75	44.50	47.57	54.00	-6.43	AV
V	15570.117	64.44	10.12	38.80	44.10	69.26	74.00	-4.74	PK
V	15570.117	43.63	10.12	38.80	42.70	49.85	54.00	-4.15	AV
H	4434.109	62.57	5.94	35.18	44.00	59.69	68.20	-8.51	PK
H	4434.109	43.40	5.94	35.18	44.00	40.52	54.00	-13.48	AV
H	10380.059	52.07	8.46	38.71	44.50	54.74	68.20	-13.46	PK
H	10380.059	44.33	8.46	38.71	44.50	47.00	54.00	-7.00	AV
H	15570.094	51.89	10.12	38.38	44.10	56.29	74.00	-17.71	PK
H	15570.094	40.74	10.12	38.38	44.10	45.14	54.00	-8.86	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.058	64.15	6.48	36.35	44.05	62.93	74.00	-11.07	PK
V	4739.058	43.35	6.48	36.35	44.05	42.13	54.00	-11.87	AV
V	10460.052	64.52	8.47	37.88	44.51	66.36	68.20	-1.84	PK
V	10460.052	43.63	8.47	37.88	44.51	45.47	54.00	-8.53	AV
V	15690.145	63.31	10.12	38.80	44.10	68.13	74.00	-5.87	PK
V	15690.145	43.32	10.12	38.80	42.70	49.54	54.00	-4.46	AV
H	4739.144	61.46	6.48	36.37	44.05	60.26	74.00	-13.74	PK
H	4739.144	43.77	6.48	36.37	44.05	42.57	54.00	-11.43	AV
H	10460.015	54.39	8.47	38.64	44.50	57.00	68.20	-11.20	PK
H	10460.015	42.96	8.47	38.64	44.50	45.57	54.00	-8.43	AV
H	15690.123	51.18	10.12	38.38	44.10	55.58	74.00	-18.42	PK
H	15690.123	41.96	10.12	38.38	44.10	46.36	54.00	-7.64	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 is MIMO Mode.

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	4434.188	62.56	5.94	35.40	44.00	59.90	68.20	-8.30	PK
V	4434.188	43.59	5.94	35.40	44.00	40.93	54.00	-13.07	AV
V	10360.022	61.96	8.46	39.75	44.50	65.67	68.20	-2.53	PK
V	10360.022	43.59	8.46	39.75	44.50	47.30	54.00	-6.70	AV
V	15540.004	64.29	10.12	38.80	44.10	69.11	74.00	-4.89	PK
V	15540.004	43.12	10.12	38.80	42.70	49.34	54.00	-4.66	AV
H	4434.141	64.08	5.94	35.18	44.00	61.20	68.20	-7.00	PK
H	4434.141	43.68	5.94	35.18	44.00	40.80	54.00	-13.20	AV
H	10360.060	53.10	8.46	38.71	44.50	55.77	68.20	-12.43	PK
H	10360.060	41.34	8.46	38.71	44.50	44.01	54.00	-9.99	AV
H	15540.071	54.65	10.12	38.38	44.10	59.05	74.00	-14.95	PK
H	15540.071	42.53	10.12	38.38	44.10	46.93	54.00	-7.07	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.160	61.85	6.48	36.35	44.05	60.63	74.00	-13.37	PK
V	4592.160	43.98	6.48	36.35	44.05	42.76	54.00	-11.24	AV
V	10400.168	62.98	8.47	37.88	44.51	64.82	68.20	-3.38	PK
V	10400.168	43.50	8.47	37.88	44.51	45.34	54.00	-8.66	AV
V	15600.092	60.72	10.12	38.80	44.10	65.54	74.00	-8.46	PK
V	15600.092	43.14	10.12	38.80	42.70	49.36	54.00	-4.64	AV
H	4592.168	62.86	6.48	36.37	44.05	61.66	74.00	-12.34	PK
H	4592.168	43.50	6.48	36.37	44.05	42.30	54.00	-11.70	AV
H	10400.151	53.39	8.47	38.64	44.50	56.00	68.20	-12.20	PK
H	10400.151	40.13	8.47	38.64	44.50	42.74	54.00	-11.26	AV
H	15600.042	54.00	10.12	38.38	44.10	58.40	74.00	-15.60	PK
H	15600.042	40.10	10.12	38.38	44.10	44.50	54.00	-9.50	AV
High Channel (5240 MHz)-Above 1G									
V	4739.065	63.33	7.10	37.24	43.50	64.17	74.00	-9.83	PK
V	4739.065	43.12	7.10	37.24	43.50	43.96	54.00	-10.04	AV
V	10480.073	62.96	8.46	37.68	44.50	64.60	68.20	-3.60	PK
V	10480.073	43.19	8.46	37.68	44.50	44.83	54.00	-9.17	AV
V	15720.154	60.45	10.12	38.80	44.10	65.27	74.00	-8.73	PK
V	15720.154	43.36	10.12	38.80	42.70	49.58	54.00	-4.42	AV
H	4739.100	61.13	7.10	37.24	43.50	61.97	74.00	-12.03	PK
H	4739.100	43.55	7.10	37.24	43.50	44.39	54.00	-9.61	AV
H	10480.141	52.64	8.46	38.57	44.50	55.17	68.20	-13.03	PK
H	10480.141	40.03	8.46	38.57	44.50	42.56	54.00	-11.44	AV
H	15720.165	54.11	10.12	38.38	44.10	58.51	74.00	-15.49	PK
H	15720.165	43.17	10.12	38.38	44.10	47.57	54.00	-6.43	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode :	TX(5.1G) - 802.11 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	4434.032	60.12	5.94	35.40	44.00	57.46	68.20	-10.74	PK
V	4434.032	43.25	5.94	35.40	44.00	40.59	54.00	-13.41	AV
V	10380.070	60.50	8.46	39.75	44.50	64.21	68.20	-3.99	PK
V	10380.070	43.04	8.46	39.75	44.50	46.75	54.00	-7.25	AV
V	15570.172	63.90	10.12	38.80	44.10	68.72	74.00	-5.28	PK
V	15570.172	43.54	10.12	38.80	42.70	49.76	54.00	-4.24	AV
H	4434.168	62.04	5.94	35.18	44.00	59.16	68.20	-9.04	PK
H	4434.168	43.16	5.94	35.18	44.00	40.28	54.00	-13.72	AV
H	10380.017	50.23	8.46	38.71	44.50	52.90	68.20	-15.30	PK
H	10380.017	40.54	8.46	38.71	44.50	43.21	54.00	-10.79	AV
H	15570.172	50.25	10.12	38.38	44.10	54.65	74.00	-19.35	PK
H	15570.172	41.86	10.12	38.38	44.10	46.26	54.00	-7.74	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.039	62.90	6.48	36.35	44.05	61.68	74.00	-12.32	PK
V	4739.039	43.16	6.48	36.35	44.05	41.94	54.00	-12.06	AV
V	10460.020	60.94	8.47	37.88	44.51	62.78	68.20	-5.42	PK
V	10460.020	43.44	8.47	37.88	44.51	45.28	54.00	-8.72	AV
V	15690.105	60.98	10.12	38.80	44.10	65.80	74.00	-8.20	PK
V	15690.105	43.00	10.12	38.80	42.70	49.22	54.00	-4.78	AV
H	4739.142	62.08	6.48	36.37	44.05	60.88	74.00	-13.12	PK
H	4739.142	43.11	6.48	36.37	44.05	41.91	54.00	-12.09	AV
H	10460.029	54.22	8.47	38.64	44.50	56.83	68.20	-11.37	PK
H	10460.029	41.65	8.47	38.64	44.50	44.26	54.00	-9.74	AV
H	15690.120	53.26	10.12	38.38	44.10	57.66	74.00	-16.34	PK
H	15690.120	40.11	10.12	38.38	44.10	44.51	54.00	-9.49	AV

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

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

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

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

Test Mode is MIMO Mode.

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	4434.044	60.91	5.94	35.40	44.00	58.25	68.20	-9.95	PK
V	4434.044	43.21	5.94	35.40	44.00	40.55	54.00	-13.45	AV
V	10420.158	58.36	8.46	39.75	44.5	62.07	68.20	-6.13	PK
V	10420.158	43.46	8.46	39.75	44.5	47.17	54.00	-6.83	AV
V	15630.132	62.94	10.12	38.80	44.10	67.76	74.00	-6.24	PK
V	15630.132	43.88	10.12	38.80	42.70	50.10	54.00	-3.90	AV
H	4434.106	60.00	5.94	35.18	44.00	57.12	68.20	-11.08	PK
H	4434.106	43.68	5.94	35.18	44.00	40.80	54.00	-13.20	AV
H	10420.096	54.91	8.46	38.71	44.50	57.58	68.20	-10.62	PK
H	10420.096	41.73	8.46	38.71	44.50	44.40	54.00	-9.60	AV
H	15630.185	53.87	10.12	38.38	44.10	58.27	74.00	-15.73	PK
H	15630.185	42.58	10.12	38.38	44.10	46.98	54.00	-7.02	AV

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

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

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

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

Test Mode is MIMO Mode.

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	4679.039	56.16	5.94	35.40	44.00	53.50	74.00	-20.50	PK
V	4679.039	43.08	5.94	35.40	44.00	40.42	54.00	-13.58	AV
V	11490.013	57.73	8.46	39.75	44.50	61.44	74.00	-12.56	PK
V	11490.013	43.59	8.46	39.75	44.50	47.30	54.00	-6.70	AV
V	17235.178	58.17	10.12	38.80	44.10	62.99	68.20	-5.21	PK
V	17235.178	43.89	10.12	38.80	42.70	50.11	54.00	-3.89	AV
H	4679.199	57.77	5.94	35.18	44.00	54.89	74.00	-19.11	PK
H	4679.199	43.79	5.94	35.18	44.00	40.91	54.00	-13.09	AV
H	11490.001	50.56	8.46	38.71	44.50	53.23	74.00	-20.77	PK
H	11490.001	41.79	8.46	38.71	44.50	44.46	54.00	-9.54	AV
H	17235.174	53.05	10.12	38.38	44.10	57.45	68.20	-10.75	PK
H	17235.174	40.16	10.12	38.38	44.10	44.56	54.00	-9.44	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.025	54.06	6.48	36.35	44.05	52.84	74.00	-21.16	PK
V	4592.025	43.31	6.48	36.35	44.05	42.09	54.00	-11.91	AV
V	11570.003	57.65	8.47	37.88	44.51	59.49	74.00	-14.51	PK
V	11570.003	43.09	8.47	37.88	44.51	44.93	54.00	-9.07	AV
V	17355.117	57.02	10.12	38.80	44.10	61.84	68.20	-6.36	PK
V	17355.117	39.65	10.12	38.80	42.70	45.87	54.00	-8.13	AV
H	4592.195	58.12	6.48	36.37	44.05	56.92	74.00	-17.08	PK
H	4592.195	43.70	6.48	36.37	44.05	42.50	54.00	-11.50	AV
H	11570.142	50.80	8.47	38.64	44.50	53.41	68.20	-14.79	PK
H	11570.142	41.40	8.47	38.64	44.50	44.01	54.00	-9.99	AV
H	17355.176	52.13	10.12	38.38	44.10	56.53	68.20	-11.67	PK
H	17355.176	41.17	10.12	38.38	44.10	45.57	54.00	-8.43	AV
High Channel (5825 MHz)-Above 1G									
V	6039.010	59.22	7.10	37.24	43.50	60.06	68.20	-8.14	PK
V	6039.010	43.29	7.10	37.24	43.50	44.13	54.00	-9.87	AV
V	11650.056	60.09	8.46	37.68	44.50	61.73	74.00	-12.27	PK
V	11650.056	43.60	8.46	37.68	44.50	45.24	54.00	-8.76	AV
V	17475.089	54.35	10.12	38.80	44.10	59.17	68.20	-9.03	PK
V	17475.089	43.10	10.12	38.80	42.70	49.32	54.00	-4.68	AV
H	6039.017	57.74	7.10	37.24	43.50	58.58	68.20	-9.62	PK
H	6039.017	43.72	7.10	37.24	43.50	44.56	54.00	-9.44	AV
H	11650.038	54.23	8.46	38.57	44.50	56.76	74.00	-17.24	PK
H	11650.038	44.26	8.46	38.57	44.50	46.79	54.00	-7.21	AV
H	17475.082	53.59	10.12	38.38	44.10	57.99	68.20	-10.21	PK
H	17475.082	43.71	10.12	38.38	44.10	48.11	54.00	-5.89	AV

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

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

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

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

The Worst mode is Antenna A.

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	4679.017	59.17	5.94	35.40	44.00	56.51	74.00	-17.49	PK
V	4679.017	43.92	5.94	35.40	44.00	41.26	54.00	-12.74	AV
V	11490.025	53.64	8.46	39.75	44.50	57.35	74.00	-16.65	PK
V	11490.025	43.05	8.46	39.75	44.50	46.76	54.00	-7.24	AV
V	17235.096	58.16	10.12	38.80	44.10	62.98	68.20	-5.22	PK
V	17235.096	43.04	10.12	38.80	42.70	49.26	54.00	-4.74	AV
H	4679.122	58.06	5.94	35.18	44.00	55.18	74.00	-18.82	PK
H	4679.122	43.95	5.94	35.18	44.00	41.07	54.00	-12.93	AV
H	11490.081	50.59	8.46	38.71	44.50	53.26	74.00	-20.74	PK
H	11490.081	40.68	8.46	38.71	44.50	43.35	54.00	-10.65	AV
H	17235.139	51.82	10.12	38.38	44.10	56.22	68.20	-11.98	PK
H	17235.139	40.32	10.12	38.38	44.10	44.72	54.00	-9.28	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.096	61.95	6.48	36.35	44.05	60.73	74.00	-13.27	PK
V	4592.096	43.16	6.48	36.35	44.05	41.94	54.00	-12.06	AV
V	11570.070	58.61	8.47	37.88	44.51	60.45	74.00	-13.55	PK
V	11570.070	43.62	8.47	37.88	44.51	45.46	54.00	-8.54	AV
V	17355.159	59.23	10.12	38.80	44.10	64.05	68.20	-4.15	PK
V	17355.159	43.04	10.12	38.80	42.70	49.26	54.00	-4.74	AV
H	4592.118	58.04	6.48	36.37	44.05	56.84	74.00	-17.16	PK
H	4592.118	43.38	6.48	36.37	44.05	42.18	54.00	-11.82	AV
H	11570.081	53.52	8.47	38.64	44.50	56.13	74.00	-17.87	PK
H	11570.081	42.80	8.47	38.64	44.50	45.41	54.00	-8.59	AV
H	17355.143	50.48	10.12	38.38	44.10	54.88	68.20	-13.32	PK
H	17355.143	40.26	10.12	38.38	44.10	44.66	54.00	-9.34	AV
High Channel (5825 MHz)-Above 1G									
V	6039.037	57.47	7.10	37.24	43.50	58.31	68.20	-9.89	PK
V	6039.037	43.10	7.10	37.24	43.50	43.94	54.00	-10.06	AV
V	11650.032	56.48	8.46	37.68	44.50	58.12	74.00	-15.88	PK
V	11650.032	43.87	8.46	37.68	44.50	45.51	54.00	-8.49	AV
V	17475.061	55.45	10.12	38.80	44.10	60.27	68.20	-7.93	PK
V	17475.061	43.81	10.12	38.80	42.70	50.03	54.00	-3.97	AV
H	6039.159	55.55	7.10	37.24	43.50	56.39	68.20	-11.81	PK
H	6039.159	43.20	7.10	37.24	43.50	44.04	54.00	-9.96	AV
H	11650.025	51.96	8.46	38.57	44.50	54.49	74.00	-19.51	PK
H	11650.025	41.72	8.46	38.57	44.50	44.25	54.00	-9.75	AV
H	17475.112	51.28	10.12	38.38	44.10	55.68	68.20	-12.52	PK
H	17475.112	44.23	10.12	38.38	44.10	48.63	54.00	-5.37	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 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 (5755 MHz)-Above 1G									
V	4679.029	58.43	5.94	35.40	44.00	55.77	74.00	-18.23	PK
V	4679.029	43.25	5.94	35.40	44.00	40.59	54.00	-13.41	AV
V	11510.133	56.40	8.46	39.75	44.50	60.11	74.00	-13.89	PK
V	11510.133	43.83	8.46	39.75	44.50	47.54	54.00	-6.46	AV
V	17265.118	58.52	10.12	38.80	44.10	63.34	68.20	-4.86	PK
V	17265.118	41.25	10.12	38.80	42.70	47.47	54.00	-6.53	AV
H	4679.112	58.66	5.94	35.18	44.00	55.78	74.00	-18.22	PK
H	4679.112	43.35	5.94	35.18	44.00	40.47	54.00	-13.53	AV
H	11510.089	54.64	8.46	38.71	44.50	57.31	74.00	-16.69	PK
H	11510.089	40.11	8.46	38.71	44.50	42.78	54.00	-11.22	AV
H	17265.051	52.93	10.12	38.38	44.10	57.33	68.20	-10.87	PK
H	17265.051	42.99	10.12	38.38	44.10	47.39	54.00	-6.61	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.023	56.43	6.48	36.35	44.05	55.21	68.20	-12.99	PK
V	6039.023	43.21	6.48	36.35	44.05	41.99	54.00	-12.01	AV
V	11590.178	56.51	8.47	37.88	44.51	58.35	74.00	-15.65	PK
V	11590.178	43.35	8.47	37.88	44.51	45.19	54.00	-8.81	AV
V	17385.006	55.16	10.12	38.80	44.10	59.98	68.20	-8.22	PK
V	17385.006	41.82	10.12	38.80	42.70	48.04	54.00	-5.96	AV
H	6039.067	56.88	6.48	36.37	44.05	55.68	68.20	-12.52	PK
H	6039.067	43.93	6.48	36.37	44.05	42.73	54.00	-11.27	AV
H	11590.044	50.52	8.47	38.64	44.50	53.13	74.00	-20.87	PK
H	11590.044	43.79	8.47	38.64	44.50	46.40	54.00	-7.60	AV
H	17385.127	54.20	10.12	38.38	44.10	58.60	68.20	-9.60	PK
H	17385.127	42.34	10.12	38.38	44.10	46.74	54.00	-7.26	AV

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

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

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

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

The Worst mode is Antenna A.

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	4679.016	56.30	5.94	35.40	44.00	53.64	74.00	-20.36	PK
V	4679.016	43.03	5.94	35.40	44.00	40.37	54.00	-13.63	AV
V	11490.126	54.28	8.46	39.75	44.50	57.99	74.00	-16.01	PK
V	11490.126	43.42	8.46	39.75	44.50	47.13	54.00	-6.87	AV
V	17235.121	58.47	10.12	38.8	44.1	63.29	68.20	-4.91	PK
V	17235.121	43.68	10.12	38.8	42.7	49.90	54.00	-4.10	AV
H	4679.056	57.62	5.94	35.18	44.00	54.74	74.00	-19.26	PK
H	4679.056	43.85	5.94	35.18	44.00	40.97	54.00	-13.03	AV
H	11490.048	49.83	8.46	38.71	44.50	52.50	74.00	-21.50	PK
H	11490.048	44.79	8.46	38.71	44.50	47.46	54.00	-6.54	AV
H	17235.042	54.83	10.12	38.38	44.10	59.23	68.20	-8.97	PK
H	17235.042	42.49	10.12	38.38	44.10	46.89	54.00	-7.11	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.117	59.64	6.48	36.35	44.05	58.42	74.00	-15.58	PK
V	4592.117	44.00	6.48	36.35	44.05	42.78	54.00	-11.22	AV
V	11570.199	55.49	8.47	37.88	44.51	57.33	74.00	-16.67	PK
V	11570.199	43.71	8.47	37.88	44.51	45.55	54.00	-8.45	AV
V	17355.154	59.24	10.12	38.80	44.10	64.06	68.20	-4.14	PK
V	17355.154	43.88	10.12	38.80	42.70	50.10	54.00	-3.90	AV
H	4592.128	60.96	6.48	36.37	44.05	59.76	74.00	-14.24	PK
H	4592.128	43.73	6.48	36.37	44.05	42.53	54.00	-11.47	AV
H	11570.098	50.03	8.47	38.64	44.50	52.64	74.00	-21.36	PK
H	11570.098	41.56	8.47	38.64	44.50	44.17	54.00	-9.83	AV
H	17355.068	52.55	10.12	38.38	44.10	56.95	68.20	-11.25	PK
H	17355.068	40.16	10.12	38.38	44.10	44.56	54.00	-9.44	AV
High Channel (5825 MHz)-Above 1G									
V	6039.103	57.25	7.10	37.24	43.50	58.09	68.20	-10.11	PK
V	6039.103	43.80	7.10	37.24	43.50	44.64	54.00	-9.36	AV
V	11650.054	58.46	8.46	37.68	44.50	60.10	74.00	-13.90	PK
V	11650.054	43.74	8.46	37.68	44.50	45.38	54.00	-8.62	AV
V	17475.116	57.32	10.12	38.80	44.10	62.14	68.20	-6.06	PK
V	17475.116	43.55	10.12	38.80	42.70	49.77	54.00	-4.23	AV
H	6039.072	59.10	7.10	37.24	43.50	59.94	68.20	-8.26	PK
H	6039.072	43.09	7.10	37.24	43.50	43.93	54.00	-10.07	AV
H	11650.122	52.33	8.46	38.57	44.50	54.86	74.00	-19.14	PK
H	11650.122	44.55	8.46	38.57	44.50	47.08	54.00	-6.92	AV
H	17475.129	54.44	10.12	38.38	44.10	58.84	68.20	-9.36	PK
H	17475.129	41.84	10.12	38.38	44.10	46.24	54.00	-7.76	AV

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

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

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

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

Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11AC40
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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	4679.018	59.47	5.94	35.40	44.00	56.81	74.00	-17.19	PK
V	4679.018	43.52	5.94	35.40	44.00	40.86	54.00	-13.14	AV
V	11510.025	56.86	8.46	39.75	44.50	60.57	74.00	-13.43	PK
V	11510.025	43.19	8.46	39.75	44.50	46.90	54.00	-7.10	AV
V	17265.158	57.96	10.12	38.8	44.1	62.78	68.20	-5.42	PK
V	17265.158	42.00	10.12	38.8	42.7	48.22	54.00	-5.78	AV
H	4679.109	60.20	5.94	35.18	44.00	57.32	74.00	-16.68	PK
H	4679.109	43.48	5.94	35.18	44.00	40.60	54.00	-13.40	AV
H	11510.082	54.43	8.46	38.71	44.50	57.10	74.00	-16.90	PK
H	11510.082	43.74	8.46	38.71	44.50	46.41	54.00	-7.59	AV
H	17265.138	52.48	10.12	38.38	44.10	56.88	68.20	-11.32	PK
H	17265.138	44.03	10.12	38.38	44.10	48.43	54.00	-5.57	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.028	59.49	6.48	36.35	44.05	58.27	68.20	-9.93	PK
V	6039.028	43.16	6.48	36.35	44.05	41.94	54.00	-12.06	AV
V	11590.193	57.68	8.47	37.88	44.51	59.52	74.00	-14.48	PK
V	11590.193	43.51	8.47	37.88	44.51	45.35	54.00	-8.65	AV
V	17385.047	55.38	10.12	38.80	44.10	60.20	68.20	-8.00	PK
V	17385.047	41.75	10.12	38.80	42.70	47.97	54.00	-6.03	AV
H	6039.006	56.08	6.48	36.37	44.05	54.88	68.20	-13.32	PK
H	6039.006	43.21	6.48	36.37	44.05	42.01	54.00	-11.99	AV
H	11590.047	51.20	8.47	38.64	44.50	53.81	74.00	-20.19	PK
H	11590.047	43.39	8.47	38.64	44.50	46.00	54.00	-8.00	AV
H	17385.198	51.68	10.12	38.38	44.10	56.08	68.20	-12.12	PK
H	17385.198	40.08	10.12	38.38	44.10	44.48	54.00	-9.52	AV

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

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

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

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

The Worst mode is Antenna A.

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	4679.138	59.12	5.94	35.40	44.00	56.46	74.00	-17.54	PK
V	4679.138	43.09	5.94	35.40	44.00	40.43	54.00	-13.57	AV
V	11550.140	56.46	8.46	39.75	44.50	60.17	74.00	-13.83	PK
V	11550.140	42.58	8.46	39.75	44.50	46.29	54.00	-7.71	AV
V	17325.087	60.40	10.12	38.80	44.10	65.22	68.20	-2.98	PK
V	17325.087	41.85	10.12	38.80	42.70	48.07	54.00	-5.93	AV
H	4679.107	59.73	5.94	35.18	44.00	56.85	74.00	-17.15	PK
H	4679.107	43.72	5.94	35.18	44.00	40.84	54.00	-13.16	AV
H	11550.120	51.57	8.46	38.71	44.50	54.24	74.00	-19.76	PK
H	11550.120	42.02	8.46	38.71	44.50	44.69	54.00	-9.31	AV
H	17325.077	53.73	10.12	38.38	44.10	58.13	68.20	-10.07	PK
H	17325.077	41.53	10.12	38.38	44.10	45.93	54.00	-8.07	AV

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

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

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

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

Test Mode is MIMO Mode.

8. POWER SPECTRAL DENSITY TEST

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

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

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

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

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

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

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

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

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional

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

For the band 5.725-5.85 GHz

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

8.3 Test procedure

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

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

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

8.4 EUT operating Conditions

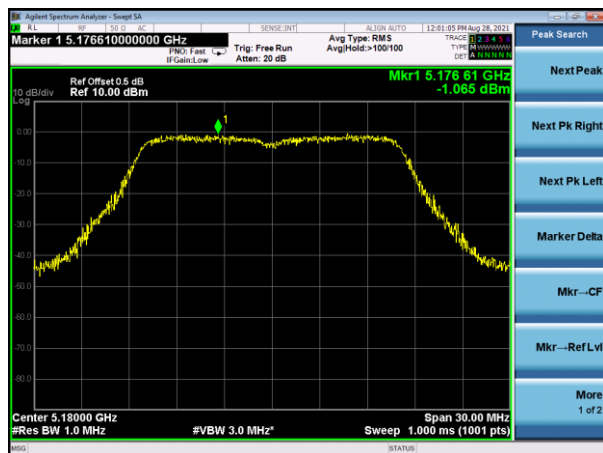
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

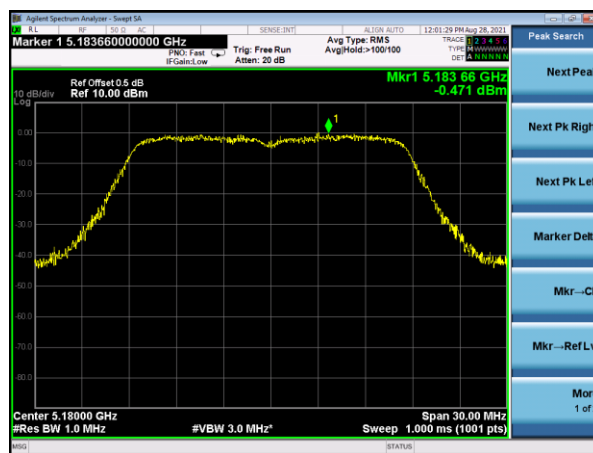
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency U-NII-1 (5180-5240MHz)		

Test Mode	Frequency	Measured Power Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11 a	5180 MHz	-1.065	11	PASS
	5200 MHz	-0.701	11	PASS
	5240 MHz	-1.154	11	PASS
802.11 n20	5180 MHz	-0.471	11	PASS
	5200 MHz	-0.439	11	PASS
	5240 MHz	-1.635	11	PASS
802.11 n40	5190 MHz	-1.644	11	PASS
	5230 MHz	-2.033	11	PASS
802.11 AC20	5180 MHz	-0.698	11	PASS
	5200 MHz	-0.367	11	PASS
	5240 MHz	-1.291	11	PASS
802.11 AC40	5190 MHz	-1.756	11	PASS
	5230 MHz	-3.034	11	PASS
802.11 AC80	5210 MHz	-3.958	11	PASS

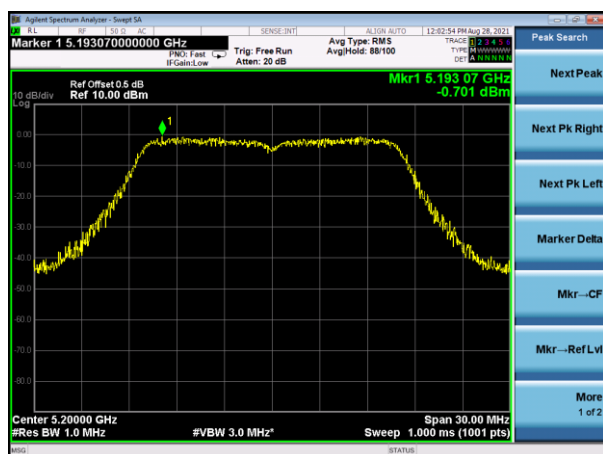
(802.11a) PSD plot on channel 36



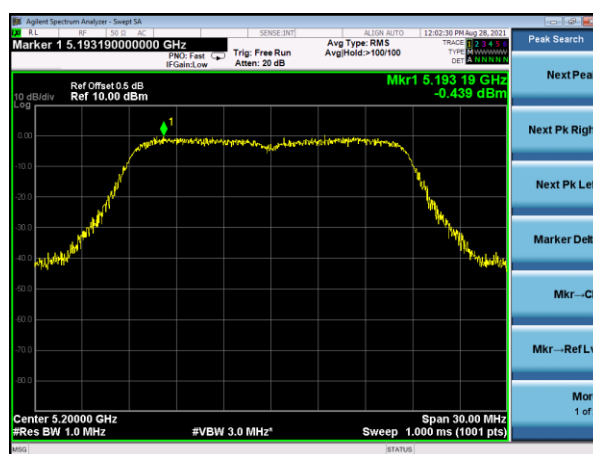
(802.11n20) PSD plot on channel 36



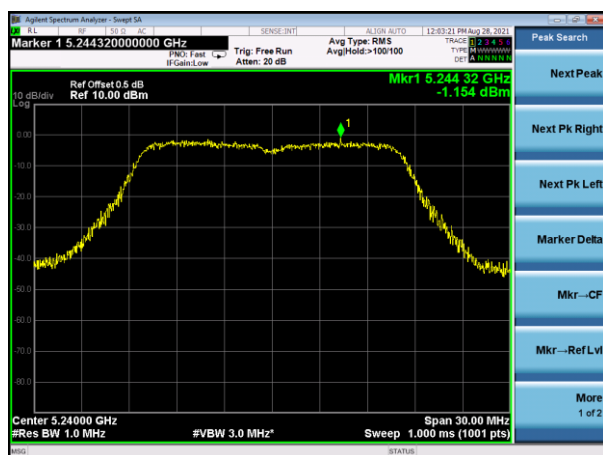
(802.11a) PSD plot on channel 40



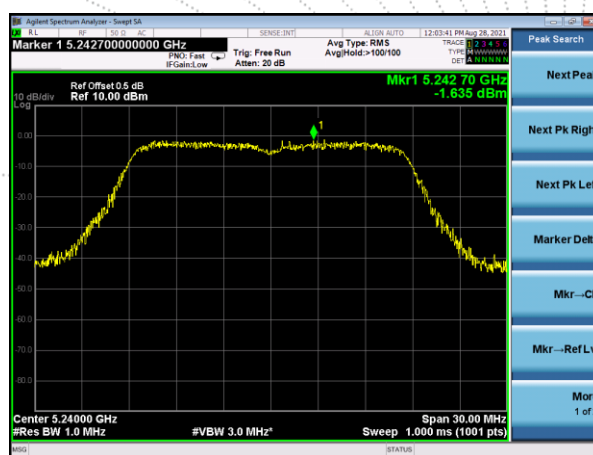
(802.11n20) PSD plot on channel 40



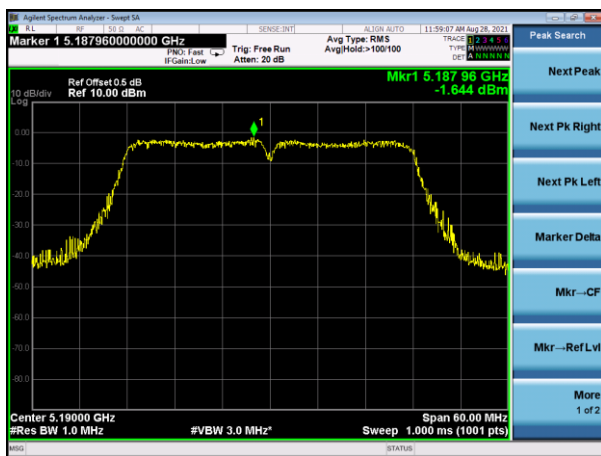
(802.11a) PSD plot on channel 48



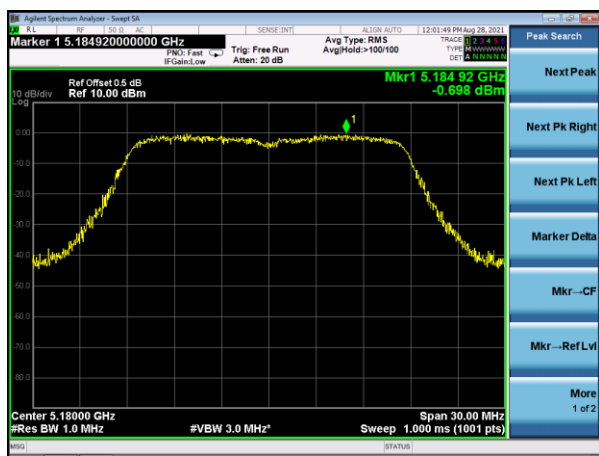
(802.11n20) PSD plot on channel 48



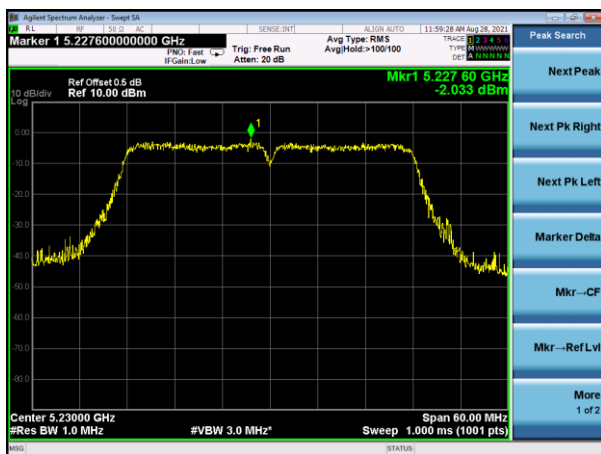
(802.11n40) PSD plot on channel 38



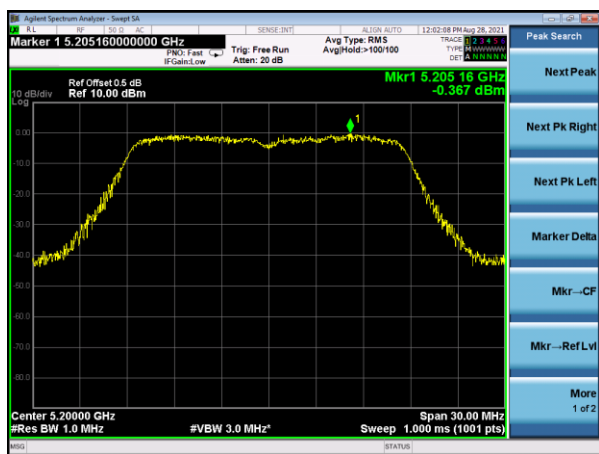
(802.11ac20) PSD plot on channel 36



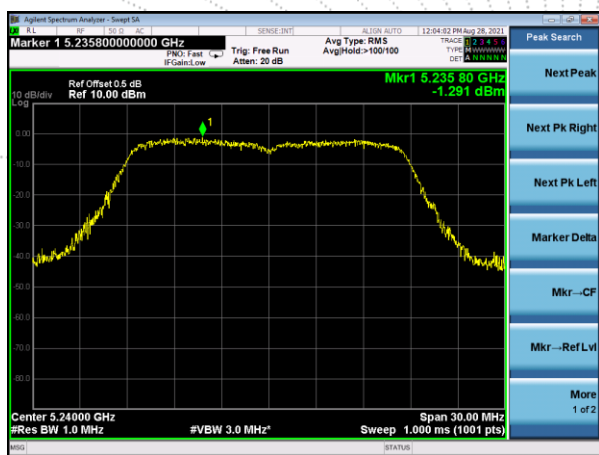
(802.11n40) PSD plot on channel 46



(802.11ac20) PSD plot on channel 40



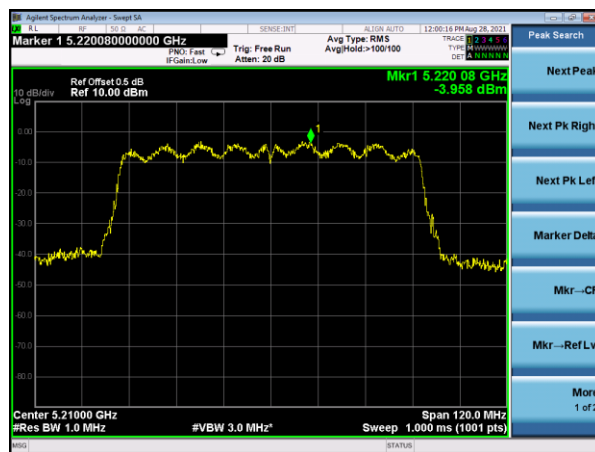
(802.11ac20) PSD plot on channel 48



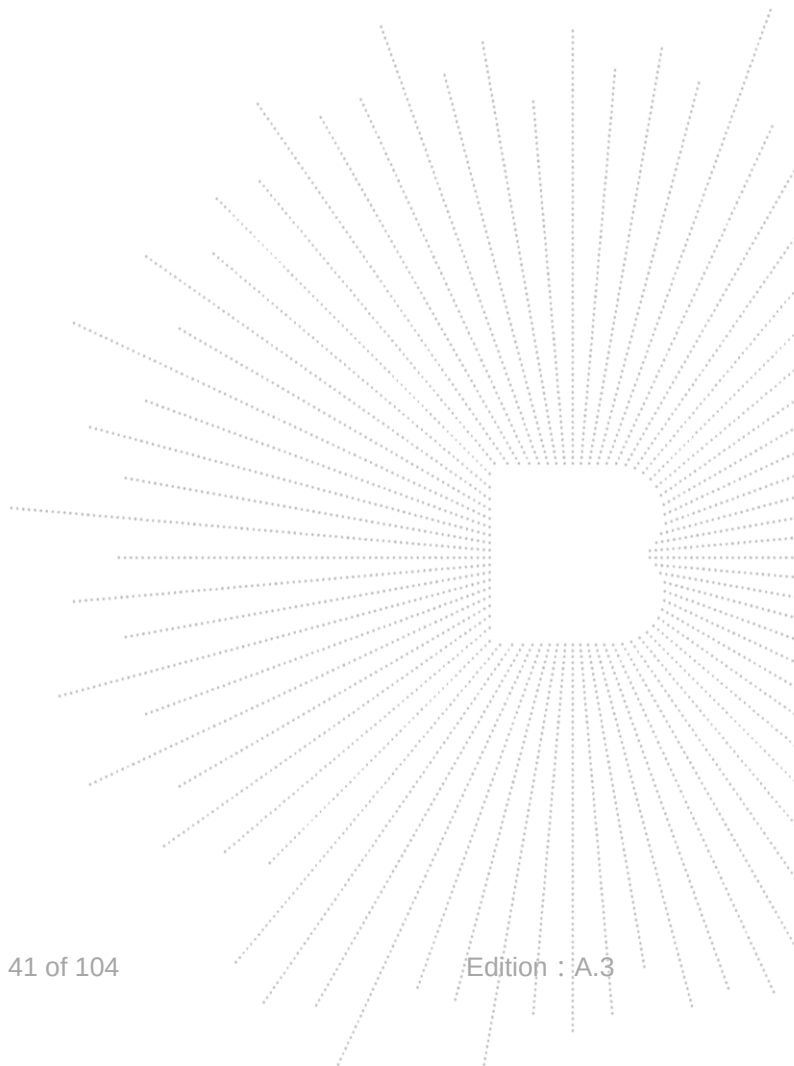
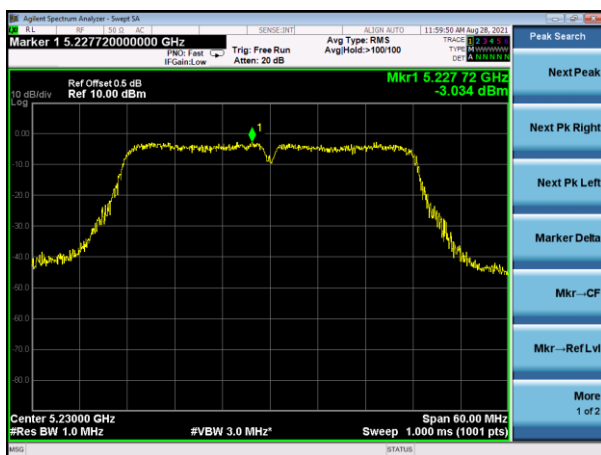
(802.11ac40) PSD plot on channel 38



(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 3.8V
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	-3.098	30	PASS
	5785 MHz	-4.038	30	PASS
	5825 MHz	-5.956	30	PASS
802.11 n20	5745 MHz	-2.731	30	PASS
	5785 MHz	-4.105	30	PASS
	5825 MHz	-5.099	30	PASS
802.11 n40	5755 MHz	-3.870	30	PASS
	5795 MHz	-6.202	30	PASS
802.11 AC20	5745 MHz	-2.834	30	PASS
	5785 MHz	-3.956	30	PASS
	5825 MHz	-5.559	30	PASS
802.11 AC40	5755 MHz	-4.712	30	PASS
	5795 MHz	-6.322	30	PASS
802.11 AC80	5775 MHz	-3.297	30	PASS

(802.11a) PSD plot on channel 149



(802.11n20) PSD plot on channel 149



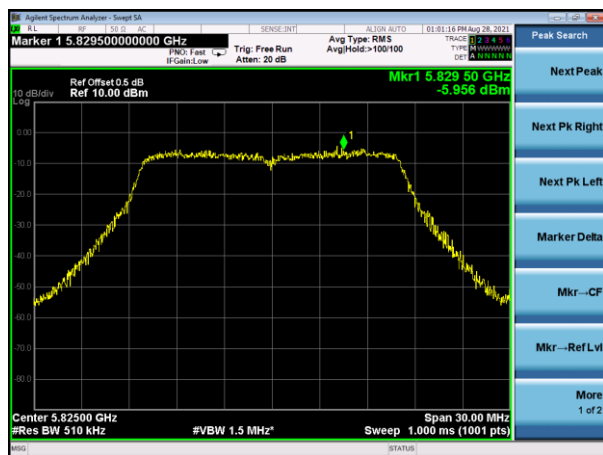
(802.11a) PSD plot on channel 157



(802.11n20) PSD plot on channel 157



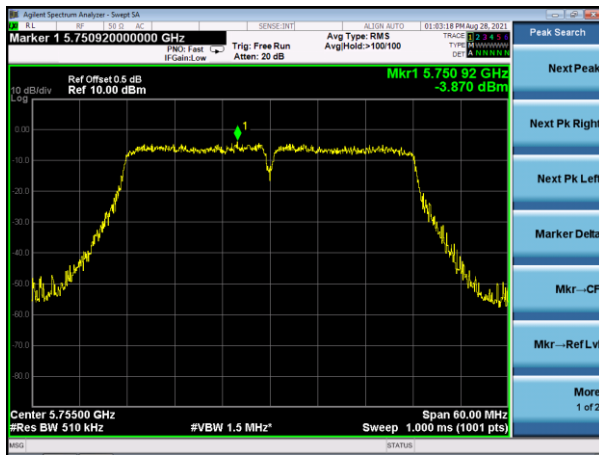
(802.11a) PSD plot on channel 165



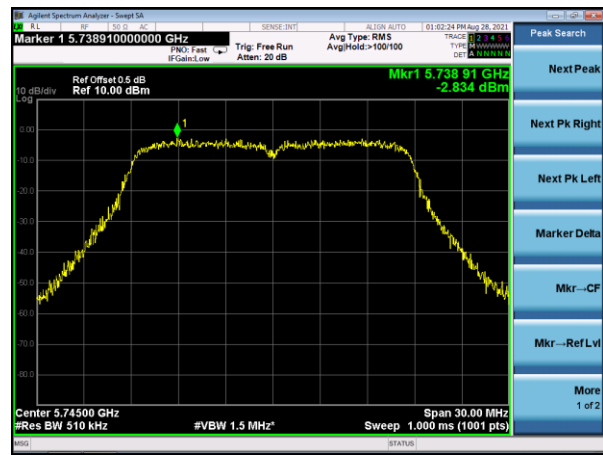
(802.11n20) PSD plot on channel 165



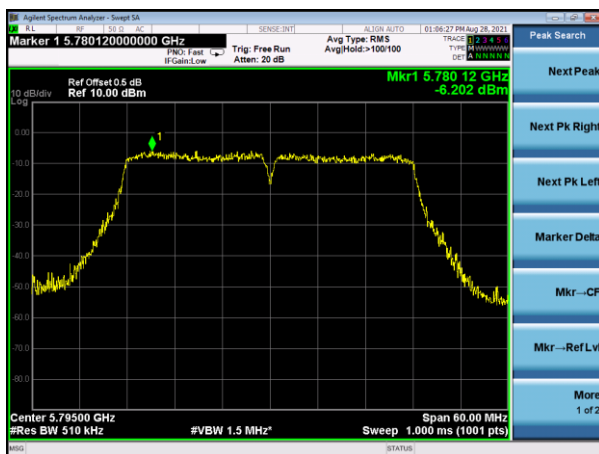
(802.11n40) PSD plot on channel 151



(802.11ac20) PSD plot on channel 149



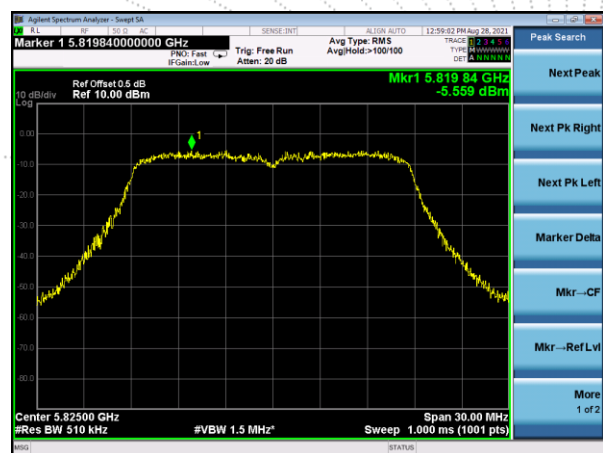
(802.11n40) PSD plot on channel 159



(802.11ac20) PSD plot on channel 157



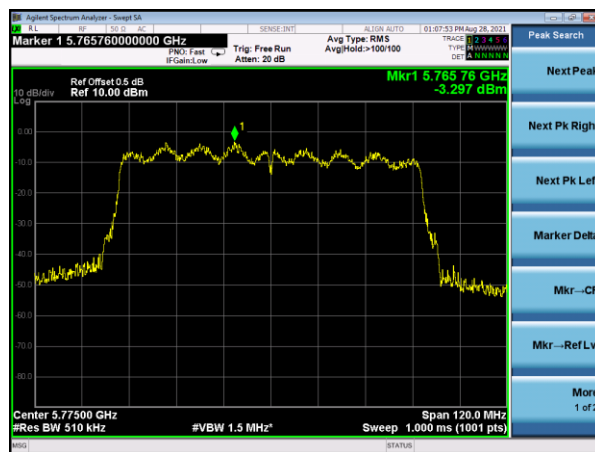
(802.11ac20) PSD plot on channel 165



(802.11ac40) PSD plot on channel 151



(802.11ac80) PSD plot on channel 155



(802.11ac40) PSD plot on channel 159

