

TEST REPORT

Report No.: BCTC2504325353-3E

Applicant: SHENZHEN MINEWSEMI CO., LTD

Product Name: WiFi Module

Test Model: ME16WS01

Tested Date: 2025-05-06 to 2025-06-18

Issued Date: 2025-06-27

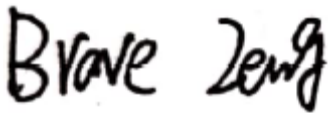
Shenzhen **BCTC** Testing Co., Ltd.



FCC ID:2BDJ6-ME16WS01

Product Name: WiFi Module
Trademark: MINEWSEMI
Model/Type Reference: ME16WS01,ME16WS0
Prepared For: SHENZHEN MINEWSEMI CO., LTD
Address: 3rd Floor,I Building, Gangzhilong Science Park, NO.6, Qinglong Road,Longhua District, Shenzhen
Manufacturer: SHENZHEN MINEWSEMI CO., LTD
Address: 3rd Floor,I Building, Gangzhilong Science Park, NO.6, Qinglong Road,Longhua District, Shenzhen
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2025-05-06
Sample Tested Date: 2025-05-06 to 2025-06-18
Report No.: BCTC2504325353-3E
Test Standards: FCC Part15 15.407
ANSI C63.10:2013
Test Results: PASS

Tested by:



Brave Zeng/ 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
BCTC2504325353-3E	2025-06-27	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

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

CO., LTD.

3. Measurement Uncertainty

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

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

4. Product Information And Test Setup

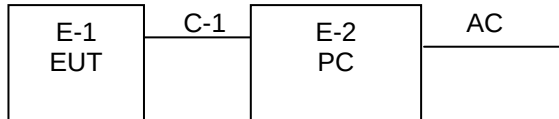
4.1 Product Information

Model/Type reference:	ME16WS01,ME16WS0
Model differences:	The following models of units we produce are identical in electrical, mechanical and physical structure; The difference is only in the model name, we finally have ME16WS01 as test model.
Device type:	Client
TPC Function:	☐ Applicable ☒ Not Applicable
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported:	802.11a/n (20MHz channel bandwidth) 802.11n (40MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n (HT20); 5190-5230MHz for 802.11n (HT40); 5260-5320MHz for 802.11a/n (HT20); 5270-5310MHz for 802.11n (HT40); 5500-5700MHz for 802.11a/n (HT20); 5510-5670MHz for 802.11n (HT40); 5745-5825 MHz for 802.11a/n (HT20); 5755-5795 MHz for 802.11n (HT40);
Data Rate:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15;
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n;
Antenna installation:	PCB antenna
Antenna Gain:	3.01dBi
Remark:	The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 3.3V

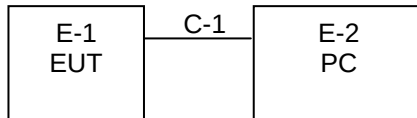
4.2 Test Setup Configuration

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	WiFi Module	N/A	ME16WS01	---	EUT
E-2	PC	N/A	N/A	---	Auxiliary

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

Notes:

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

4.4 Channel List

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

4.5 Test Mode

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

Pretest Mode	Description
Mode 1	802.11a / n20 CH36/ CH40/ CH 48 802.11a / n20 CH52/ CH56/ CH 64 802.11a / n 20 CH100/ CH116/ CH 140 802.11a /n20 CH149/ CH157/ CH 165
Mode 2	802.11n40 CH38/ CH 46 802.11n40 CH54/ CH 62 802.11nCH102/ CH 110/CH134 802.11n40 CH 151 / CH 159
Mode 3	Transmit mode

Note:

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

4.6 Table Of Parameters Of Text Software Setting

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

Test software Version	CMD		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

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

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 08, 2025	May 07, 2026
LISN	R&S	ENV216	101375	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD 9561-F	01323	May 14, 2025	May 13, 2026

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

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

40GHz					
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RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 14, 2025	May 13, 2026
Power Sensor (AV)	Keysight	E9300A	\	May 14, 2025	May 13, 2026
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026

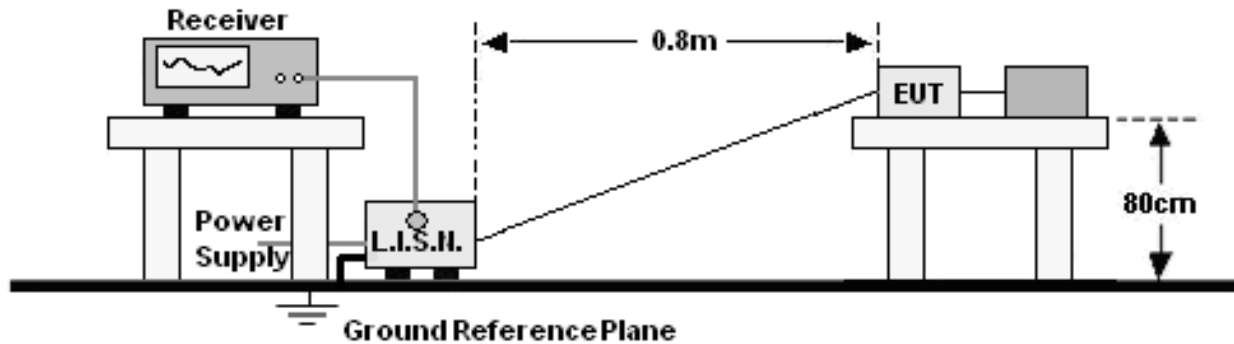
Radiated Emissions Test (966 Chamber02)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	SKET	966 Room	966	Oct. 31. 2024	Oct. 30. 2027
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESR17	100010	Oct. 31. 2024	Oct. 30. 2025
Amplifier	SKET	LNPA-30M01 G-30	SK2021082004	Oct. 31. 2024	Oct. 30. 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9168	1323	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G1 8G-45dB	SK202104090 1	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenn(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

Radiated Emissions Test (966 Chamber02)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESRP	101154	May 14, 2025	May 13, 2026

Amplifier	Schwarzbeck	BBV9744	9744-0037	May 14, 2025	May 13, 2026
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 24, 2025	May 23, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 24, 2025	May 23, 2026
Amplifier	SKET	LAPA_01G1 8G-45dB	SK202104090 1	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 24, 2025	May 23, 2026
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 24, 2025	May 23, 2026
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	May 24, 2025	May 23, 2026
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
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

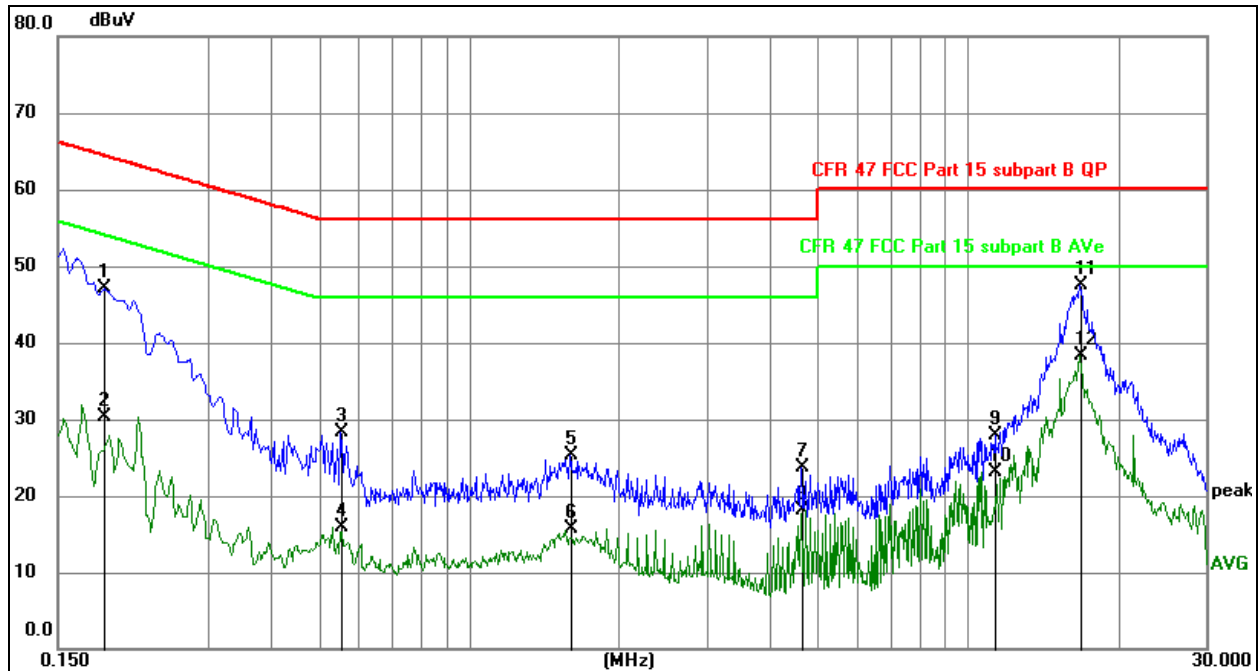
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N.).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak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

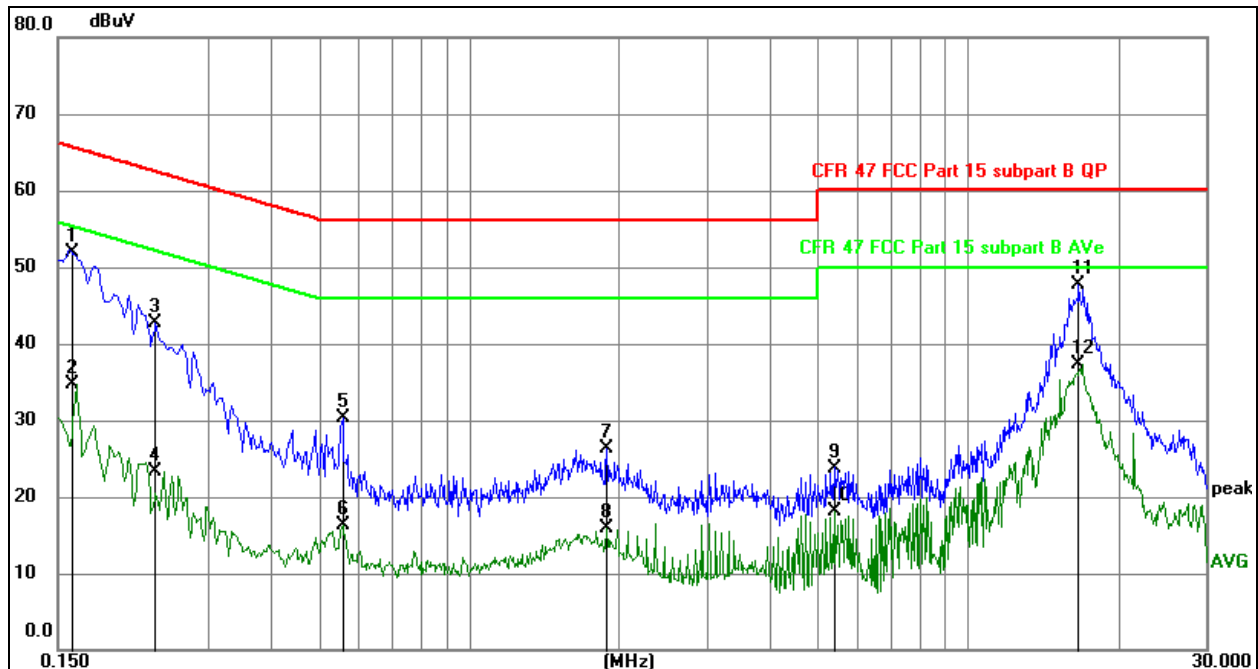


Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1860	36.47	10.58	47.05	64.21	-17.16	QP
2	0.1860	19.75	10.58	30.33	54.21	-23.88	AVG
3	0.5550	17.67	10.65	28.32	56.00	-27.68	QP
4	0.5550	5.34	10.65	15.99	46.00	-30.01	AVG
5	1.5990	14.63	10.70	25.33	56.00	-30.67	QP
6	1.5990	4.91	10.70	15.61	46.00	-30.39	AVG
7	4.6455	12.45	11.18	23.63	56.00	-32.37	QP
8	4.6455	6.91	11.18	18.09	46.00	-27.91	AVG
9	11.3730	16.22	11.71	27.93	60.00	-32.07	QP
10	11.3730	11.38	11.71	23.09	50.00	-26.91	AVG
11	16.7775	35.28	12.28	47.56	60.00	-12.44	QP
12 *	16.7775	26.08	12.28	38.36	50.00	-11.64	AVG

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


Remark:

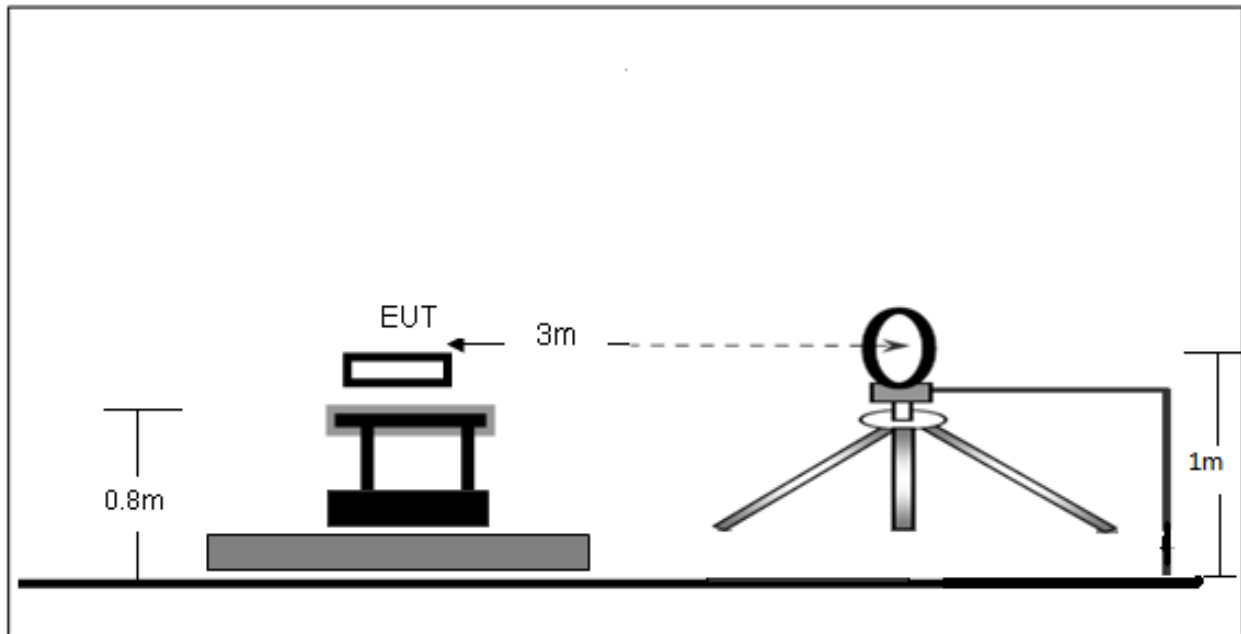
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1598	41.40	10.57	51.97	65.47	-13.50	QP
2	0.1598	24.20	10.57	34.77	55.47	-20.70	AVG
3	0.2353	32.15	10.59	42.74	62.26	-19.52	QP
4	0.2353	12.77	10.59	23.36	52.26	-28.90	AVG
5	0.5581	19.62	10.65	30.27	56.00	-25.73	QP
6	0.5581	5.56	10.65	16.21	46.00	-29.79	AVG
7	1.8879	15.60	10.76	26.36	56.00	-29.64	QP
8	1.8879	5.21	10.76	15.97	46.00	-30.03	AVG
9	5.3900	12.53	11.27	23.80	60.00	-36.20	QP
10	5.3900	6.79	11.27	18.06	50.00	-31.94	AVG
11 *	16.6612	35.35	12.27	47.62	60.00	-12.38	QP
12	16.6612	25.00	12.27	37.27	50.00	-12.73	AVG

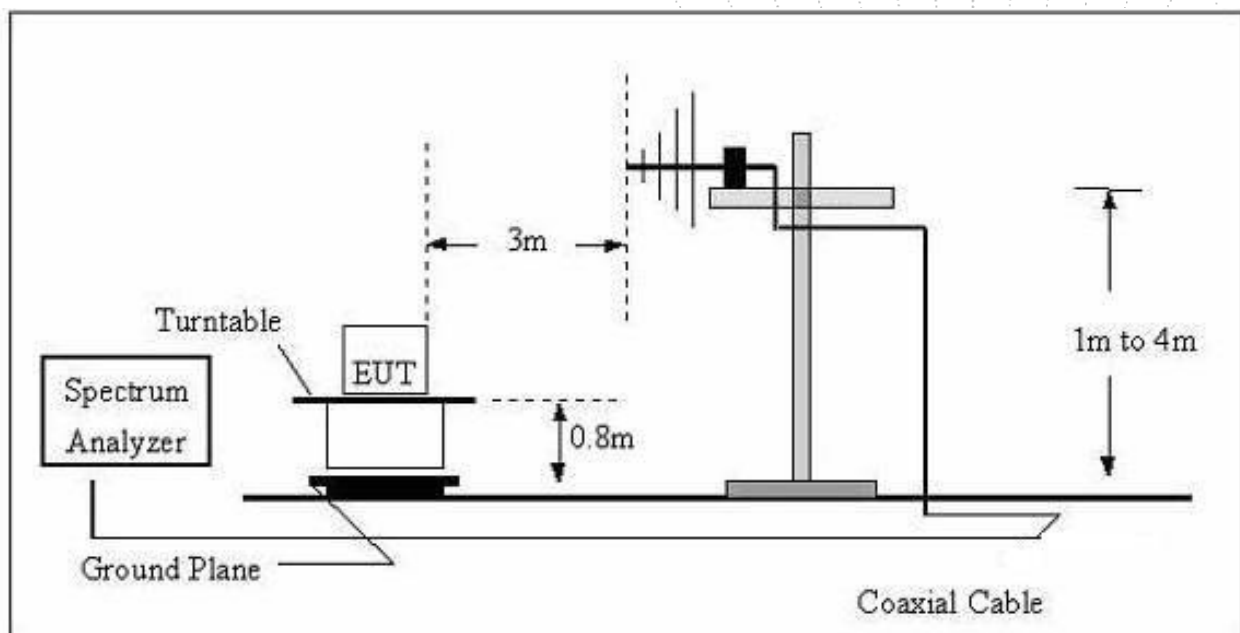
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

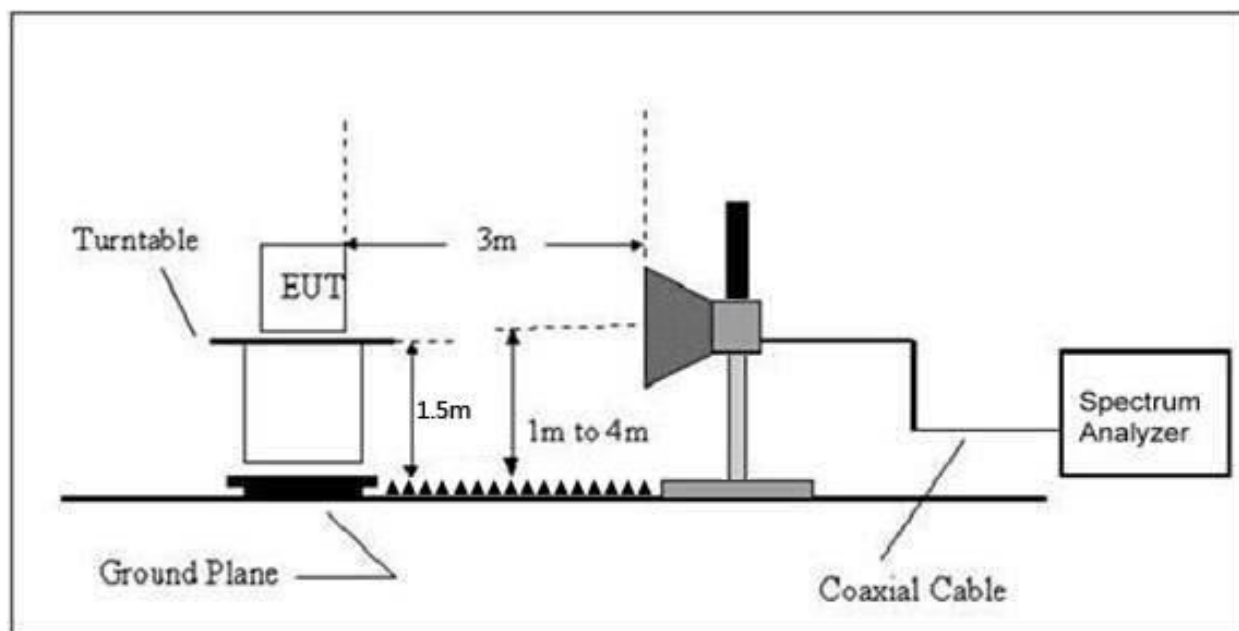
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2 Limit

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

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

Limits Of Radiated Emission Measurement (Above 1000MHz)

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

Notes:

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

7.3 Test Procedure

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

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

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

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

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

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

Note:

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

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

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

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

7.4 EUT Operating Conditions

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

7.5 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage :	DC 3.3V
Test Mode:	Mode 4	Polarization:	--

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

Note:

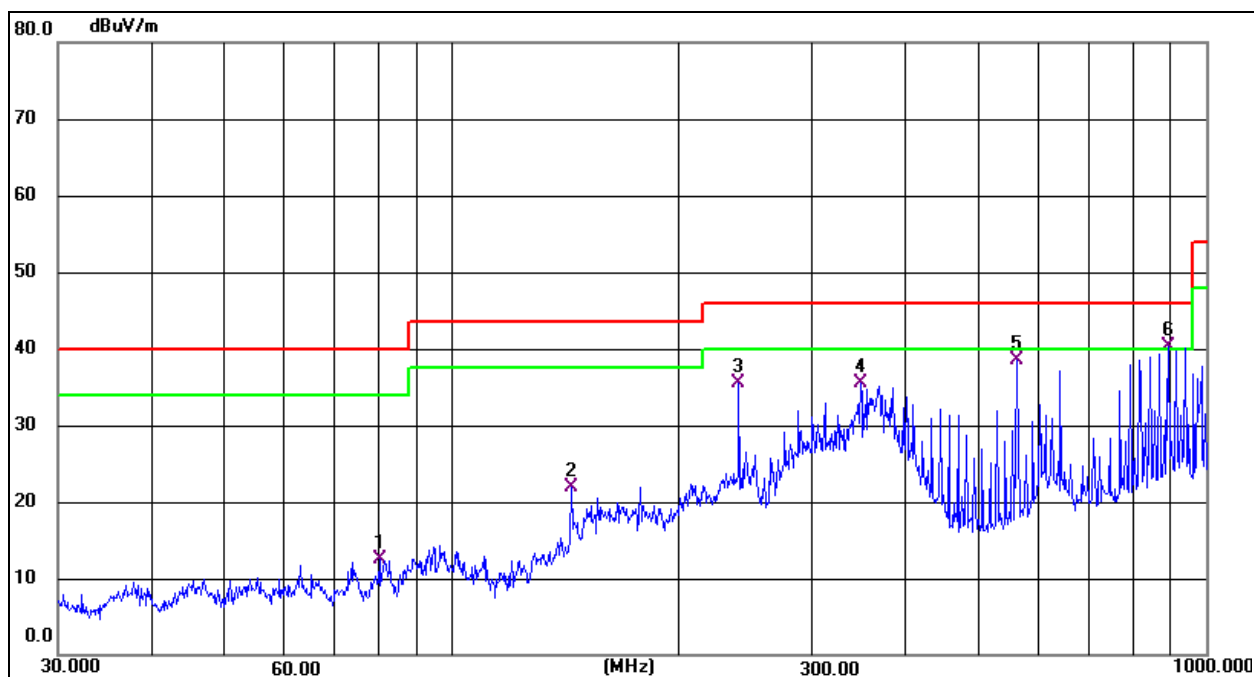
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	Mode 4	Polarization :	Horizontal

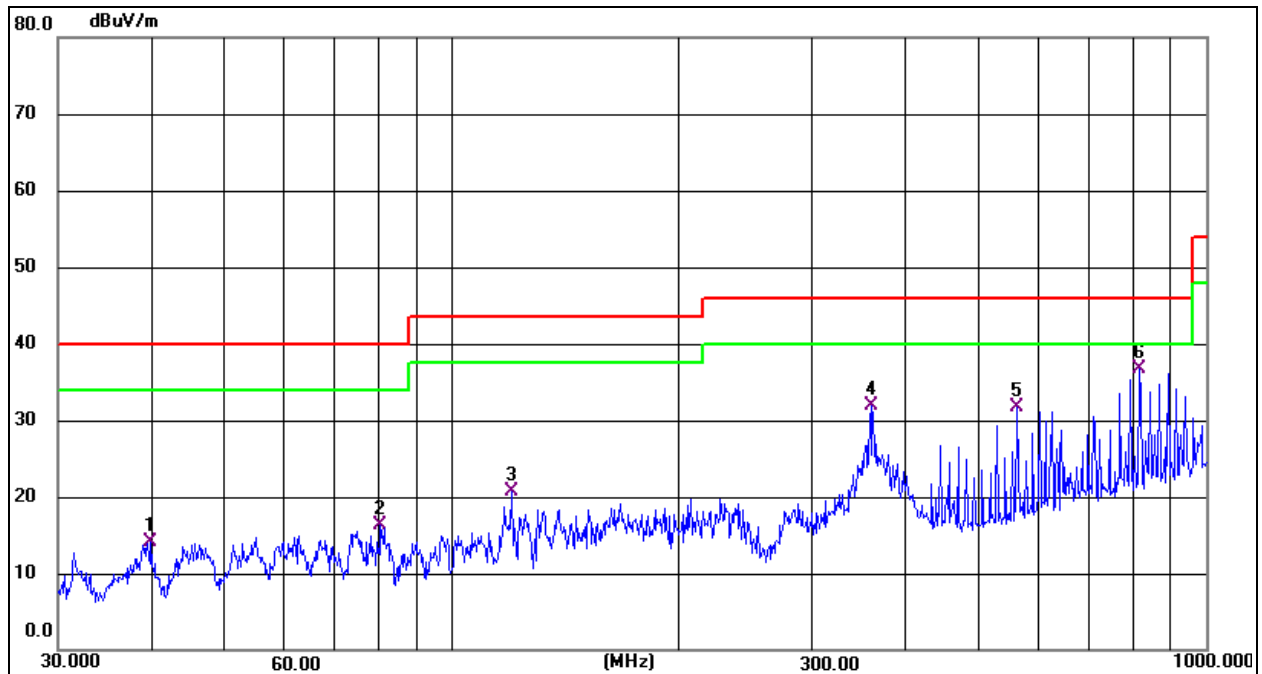


Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	80.0806	32.93	-20.40	12.53	40.00	-27.47	QP
2	143.8295	37.64	-15.76	21.88	43.50	-21.62	QP
3	239.9874	52.91	-17.38	35.53	46.00	-10.47	QP
4	348.0274	49.36	-13.90	35.46	46.00	-10.54	QP
5	560.6928	46.54	-8.11	38.43	46.00	-7.57	QP
6 *	890.7278	42.11	-1.80	40.31	46.00	-5.69	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	Mode 4	Polarization :	Vertical



Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.8542	31.63	-17.43	14.20	40.00	-25.80	QP
2	80.3619	36.72	-20.40	16.32	40.00	-23.68	QP
3	119.8556	38.39	-17.75	20.64	43.50	-22.86	QP
4	360.4476	45.48	-13.54	31.94	46.00	-14.06	QP
5	560.6928	39.90	-8.11	31.79	46.00	-14.21	QP
6 *	815.9678	39.66	-2.91	36.75	46.00	-9.25	QP

Test Mode:	TX(5.1G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.123	74.75	-20.73	54.02	68.2	-14.18	PK
Vertical	4434.123	59.29	-20.73	38.56	54	-15.44	AV
Vertical	10360.104	62.58	-9.36	53.22	68.2	-14.98	PK
Vertical	10360.104	49.36	-9.36	40.00	54	-14.00	AV
Vertical	15540.004	63.68	-7.84	55.84	74	-18.16	PK
Vertical	15540.004	49.01	-7.84	41.17	54	-12.83	AV
Horizontal	4434.137	71.25	-20.73	50.52	68.2	-17.68	PK
Horizontal	4434.137	59.90	-20.73	39.17	54	-14.83	AV
Horizontal	10360.087	62.97	-9.36	53.61	68.2	-14.59	PK
Horizontal	10360.087	49.24	-9.36	39.88	54	-14.12	AV
Horizontal	15540.112	60.69	-7.84	52.85	74	-21.15	PK
Horizontal	15540.112	49.77	-7.84	41.93	54	-12.07	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.190	72.52	-20.42	52.10	74	-21.90	PK
Vertical	4592.190	59.10	-20.42	38.68	54	-15.32	AV
Vertical	10400.008	64.13	-9.30	54.83	68.2	-13.37	PK
Vertical	10400.008	49.93	-9.30	40.63	54	-13.37	AV
Vertical	15600.081	60.51	-7.82	52.69	74	-21.31	PK
Vertical	15600.081	49.09	-7.82	41.27	54	-12.73	AV
Horizontal	4592.085	72.30	-20.42	51.89	74	-22.11	PK
Horizontal	4592.085	59.52	-20.42	39.10	54	-14.90	AV
Horizontal	10400.151	60.20	-9.30	50.90	68.2	-17.30	PK
Horizontal	10400.151	49.82	-9.30	40.52	54	-13.48	AV
Horizontal	15600.107	63.98	-7.82	56.16	74	-17.84	PK
Horizontal	15600.107	49.89	-7.82	42.07	54	-11.93	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.053	72.68	-20.12	52.56	74	-21.44	PK
Vertical	4739.053	59.28	-20.12	39.16	54	-14.84	AV
Vertical	10480.082	63.97	-9.18	54.79	68.2	-13.41	PK
Vertical	10480.082	49.61	-9.18	40.43	54	-13.57	AV
Vertical	15720.018	61.07	-7.78	53.29	74	-20.71	PK
Vertical	15720.018	49.92	-7.78	42.14	54	-11.86	AV
Horizontal	4739.106	71.95	-20.12	51.83	74	-22.17	PK
Horizontal	4739.106	59.78	-20.12	39.65	54	-14.35	AV
Horizontal	10480.136	62.16	-9.18	52.98	68.2	-15.22	PK
Horizontal	10480.136	49.71	-9.18	40.53	54	-13.47	AV
Horizontal	15720.043	62.24	-7.78	54.46	74	-19.54	PK
Horizontal	15720.043	49.49	-7.78	41.71	54	-12.29	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
Vertical	4434.036	74.93	-20.73	54.20	68.2	-14.00	PK
Vertical	4434.036	59.42	-20.73	38.69	54	-15.31	AV
Vertical	10360.084	61.28	-9.36	51.92	68.2	-16.28	PK
Vertical	10360.084	49.09	-9.36	39.73	54	-14.27	AV
Vertical	15540.121	63.75	-7.84	55.91	74	-18.09	PK
Vertical	15540.121	49.15	-7.84	41.31	54	-12.69	AV
Horizontal	4434.184	73.93	-20.73	53.20	68.2	-15.00	PK
Horizontal	4434.184	59.76	-20.73	39.03	54	-14.97	AV
Horizontal	10360.001	60.29	-9.36	50.93	68.2	-17.27	PK
Horizontal	10360.001	49.37	-9.36	40.01	54	-13.99	AV
Horizontal	15540.097	61.89	-7.84	54.05	74	-19.95	PK
Horizontal	15540.097	49.00	-7.84	41.16	54	-12.84	AV
middle Channel (5200 MHz)-Above 1G							
Vertical	4592.027	70.75	-20.42	50.33	74	-23.67	PK
Vertical	4592.027	59.95	-20.42	39.53	54	-14.47	AV
Vertical	10400.034	64.24	-9.30	54.94	68.2	-13.26	PK
Vertical	10400.034	49.30	-9.30	40.00	54	-14.00	AV
Vertical	15600.095	64.61	-7.82	56.79	74	-17.21	PK
Vertical	15600.095	49.99	-7.82	42.17	54	-11.83	AV
Horizontal	4592.158	70.54	-20.42	50.12	74	-23.88	PK
Horizontal	4592.158	59.02	-20.42	38.60	54	-15.40	AV
Horizontal	10400.076	62.20	-9.30	52.90	68.2	-15.30	PK
Horizontal	10400.076	49.41	-9.30	40.11	54	-13.89	AV
Horizontal	15600.081	60.48	-7.82	52.66	74	-21.34	PK
Horizontal	15600.081	49.10	-7.82	41.28	54	-12.72	AV
High Channel (5240 MHz)-Above 1G							
Vertical	4739.155	74.52	-20.12	54.40	74	-19.60	PK
Vertical	4739.155	59.28	-20.12	39.16	54	-14.84	AV
Vertical	10480.122	61.49	-9.18	52.31	68.2	-15.89	PK
Vertical	10480.122	49.54	-9.18	40.36	54	-13.64	AV
Vertical	15720.174	62.89	-7.78	55.11	74	-18.89	PK
Vertical	15720.174	49.83	-7.78	42.05	54	-11.95	AV
Horizontal	4739.086	74.39	-20.12	54.27	74	-19.73	PK
Horizontal	4739.086	59.48	-20.12	39.36	54	-14.64	AV
Horizontal	10480.149	62.20	-9.18	53.02	68.2	-15.18	PK
Horizontal	10480.149	49.56	-9.18	40.38	54	-13.62	AV
Horizontal	15720.026	64.41	-7.78	56.63	74	-17.37	PK
Horizontal	15720.026	49.46	-7.78	41.68	54	-12.32	AV

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

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

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

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

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G							
Vertical	4434.118	74.64	-20.73	53.91	68.2	-14.29	PK
Vertical	4434.118	59.56	-20.73	38.83	54	-15.17	AV
Vertical	10380.158	64.66	-9.33	55.33	68.2	-12.87	PK
Vertical	10380.158	49.31	-9.33	39.98	54	-14.02	AV
Vertical	15570.011	61.09	-7.83	53.26	74	-20.74	PK
Vertical	15570.011	49.75	-7.83	41.92	54	-12.08	AV
Horizontal	4434.175	73.75	-20.73	53.01	74	-20.99	PK
Horizontal	4434.175	59.02	-20.73	38.29	54	-15.71	AV
Horizontal	10380.019	64.38	-9.33	55.05	68.2	-13.15	PK
Horizontal	10380.019	49.80	-9.33	40.47	54	-13.53	AV
Horizontal	15570.059	64.22	-7.83	56.39	74	-17.61	PK
Horizontal	15570.059	49.99	-7.83	42.16	54	-11.84	AV
High Channel (5230 MHz)-Above 1G							
Vertical	4739.137	73.46	-20.12	53.34	68.2	-14.86	PK
Vertical	4739.137	59.57	-20.12	39.44	54	-14.56	AV
Vertical	10460.028	62.62	-9.21	53.41	68.2	-14.79	PK
Vertical	10460.028	49.28	-9.21	40.07	54	-13.93	AV
Vertical	15690.009	61.90	-7.79	54.11	74	-19.89	PK
Vertical	15690.009	49.47	-7.79	41.68	54	-12.32	AV
Horizontal	4739.132	73.81	-20.12	53.69	68.2	-14.51	PK
Horizontal	4739.132	59.09	-20.12	38.97	54	-15.03	AV
Horizontal	10460.070	60.73	-9.21	51.52	68.2	-16.68	PK
Horizontal	10460.070	49.57	-9.21	40.36	54	-13.64	AV
Horizontal	15690.072	62.46	-7.79	54.67	74	-19.33	PK
Horizontal	15690.072	49.93	-7.79	42.14	54	-11.86	AV

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

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

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

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

- ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
- All the modes 802.11a/n has been tested and the worst result 802.11a20 recorded as below:

Test mode: 802.11a20 Frequency(MHz): 5180

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5150.49	H	67.18	74	47.16	54
5150.07	V	66.49	74	42.91	54

Test mode: 802.11a20 Frequency(MHz): 5240

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5360.14	H	63.27	74	42.02	54
5360.73	V	67.09	74	41.67	54

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

Test Mode:	TX(5.3G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.108	74.54	-20.73	53.81	68.2	-14.39	PK
Vertical	4434.108	59.65	-20.73	38.91	54	-15.09	AV
Vertical	10520.130	63.78	-9.12	54.66	68.2	-13.54	PK
Vertical	10520.130	49.66	-9.12	40.54	54	-13.46	AV
Vertical	15780.158	62.72	-7.77	54.95	74	-19.05	PK
Vertical	15780.158	49.19	-7.77	41.42	54	-12.58	AV
Horizontal	4434.178	71.05	-20.73	50.32	68.2	-17.88	PK
Horizontal	4434.178	59.92	-20.73	39.19	54	-14.81	AV
Horizontal	10520.117	63.22	-9.12	54.10	68.2	-14.10	PK
Horizontal	10520.117	49.66	-9.12	40.54	54	-13.46	AV
Horizontal	15780.126	64.39	-7.77	56.62	74	-17.38	PK
Horizontal	15780.126	49.59	-7.77	41.82	54	-12.18	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.008	70.19	-20.42	49.77	74	-24.23	PK
Vertical	4592.008	59.71	-20.42	39.30	54	-14.70	AV
Vertical	10560.120	64.56	-9.06	55.50	68.2	-12.70	PK
Vertical	10560.120	49.65	-9.06	40.59	54	-13.41	AV
Vertical	15840.038	64.73	-7.75	56.98	74	-17.02	PK
Vertical	15840.038	49.88	-7.75	42.13	54	-11.87	AV
Horizontal	4592.085	71.83	-20.42	51.42	74	-22.58	PK
Horizontal	4592.085	59.72	-20.42	39.31	54	-14.69	AV
Horizontal	10560.079	63.28	-9.06	54.22	68.2	-13.98	PK
Horizontal	10560.079	49.45	-9.06	40.39	54	-13.61	AV
Horizontal	15840.096	62.45	-7.75	54.70	74	-19.30	PK
Horizontal	15840.096	49.43	-7.75	41.68	54	-12.32	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.014	74.69	-20.12	54.57	74	-19.43	PK
Vertical	4739.014	59.69	-20.12	39.56	54	-14.44	AV
Vertical	10640.176	62.37	-8.94	53.43	68.2	-14.77	PK
Vertical	10640.176	49.11	-8.94	40.17	54	-13.83	AV
Vertical	15960.184	64.59	-7.71	56.88	74	-17.12	PK
Vertical	15960.184	49.82	-7.71	42.11	54	-11.89	AV
Horizontal	4739.047	72.39	-20.12	52.27	74	-21.73	PK
Horizontal	4739.047	59.13	-20.12	39.01	54	-14.99	AV
Horizontal	10640.178	61.25	-8.94	52.31	68.2	-15.89	PK
Horizontal	10640.178	49.57	-8.94	40.63	54	-13.37	AV
Horizontal	15960.197	64.17	-7.71	56.46	74	-17.54	PK
Horizontal	15960.197	49.21	-7.71	41.50	54	-12.50	AV

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

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

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

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

Test Mode:	TX(5.3G) - 802.11n-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G							
Vertical	4434.005	74.13	-20.73	53.39	68.2	-14.81	PK
Vertical	4434.005	59.51	-20.73	38.78	54	-15.22	AV
Vertical	10520.026	64.23	-9.12	55.11	68.2	-13.09	PK
Vertical	10520.026	49.07	-9.12	39.95	54	-14.05	AV
Vertical	15780.159	61.07	-7.77	53.30	74	-20.70	PK
Vertical	15780.159	49.26	-7.77	41.49	54	-12.51	AV
Horizontal	4434.197	73.98	-20.73	53.25	68.2	-14.95	PK
Horizontal	4434.197	59.26	-20.73	38.53	54	-15.47	AV
Horizontal	10520.195	63.21	-9.12	54.09	68.2	-14.11	PK
Horizontal	10520.195	49.42	-9.12	40.30	54	-13.70	AV
Horizontal	15780.023	62.84	-7.77	55.07	74	-18.93	PK
Horizontal	15780.023	49.84	-7.77	42.07	54	-11.93	AV
middle Channel (5280 MHz)-Above 1G							
Vertical	4592.143	73.97	-20.42	53.55	74	-20.45	PK
Vertical	4592.143	59.71	-20.42	39.29	54	-14.71	AV
Vertical	10560.062	62.79	-9.06	53.73	68.2	-14.47	PK
Vertical	10560.062	49.90	-9.06	40.84	54	-13.16	AV
Vertical	15840.002	64.65	-7.75	56.90	74	-17.10	PK
Vertical	15840.002	49.70	-7.75	41.95	54	-12.05	AV
Horizontal	4592.131	71.50	-20.42	51.08	74	-22.92	PK
Horizontal	4592.131	59.18	-20.42	38.77	54	-15.23	AV
Horizontal	10560.178	62.04	-9.06	52.98	68.2	-15.22	PK
Horizontal	10560.178	49.74	-9.06	40.68	54	-13.32	AV
Horizontal	15840.168	62.12	-7.75	54.37	74	-19.63	PK
Horizontal	15840.168	49.32	-7.75	41.57	54	-12.43	AV
High Channel (5320 MHz)-Above 1G							
Vertical	4739.037	71.44	-20.12	51.31	74	-22.69	PK
Vertical	4739.037	59.29	-20.12	39.17	54	-14.83	AV
Vertical	10640.129	64.39	-8.94	55.45	68.2	-12.75	PK
Vertical	10640.129	49.06	-8.94	40.12	54	-13.88	AV
Vertical	15960.004	61.93	-7.71	54.22	74	-19.78	PK
Vertical	15960.004	49.51	-7.71	41.80	54	-12.20	AV
Horizontal	4739.166	70.69	-20.12	50.57	74	-23.43	PK
Horizontal	4739.166	59.68	-20.12	39.56	54	-14.44	AV
Horizontal	10640.098	61.73	-8.94	52.79	68.2	-15.41	PK
Horizontal	10640.098	49.38	-8.94	40.44	54	-13.56	AV
Horizontal	15960.017	64.59	-7.71	56.88	74	-17.12	PK
Horizontal	15960.017	49.82	-7.71	42.11	54	-11.89	AV

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

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

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

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

Test Mode:	TX(5.3G) - 802.11n-HT40
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Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5270 MHz)-Above 1G							
Vertical	4434.042	70.33	-20.73	49.60	68.2	-18.60	PK
Vertical	4434.042	59.29	-20.73	38.56	54	-15.44	AV
Vertical	10540.126	64.95	-9.09	55.86	68.2	-12.34	PK
Vertical	10540.126	49.55	-9.09	40.46	54	-13.54	AV
Vertical	15810.063	64.24	-7.76	56.48	74	-17.52	PK
Vertical	15810.063	49.40	-7.76	41.64	54	-12.36	AV
Horizontal	4434.050	70.13	-20.73	49.40	74	-24.60	PK
Horizontal	4434.050	59.88	-20.73	39.15	54	-14.85	AV
Horizontal	10540.184	64.87	-9.09	55.78	68.2	-12.42	PK
Horizontal	10540.184	49.38	-9.09	40.29	54	-13.71	AV
Horizontal	15810.141	62.14	-7.76	54.38	74	-19.62	PK
Horizontal	15810.141	49.25	-7.76	41.49	54	-12.51	AV
High Channel (5310 MHz)-Above 1G							
Vertical	4739.028	72.20	-20.12	52.08	68.2	-16.12	PK
Vertical	4739.028	59.32	-20.12	39.20	54	-14.80	AV
Vertical	10620.158	63.65	-8.97	54.68	68.2	-13.52	PK
Vertical	10620.158	49.06	-8.97	40.09	54	-13.91	AV
Vertical	15930.072	61.07	-7.72	53.35	74	-20.65	PK
Vertical	15930.072	49.72	-7.72	42.00	54	-12.00	AV
Horizontal	4739.078	74.89	-20.12	54.77	68.2	-13.43	PK
Horizontal	4739.078	59.94	-20.12	39.81	54	-14.19	AV
Horizontal	10620.021	61.63	-8.97	52.66	68.2	-15.54	PK
Horizontal	10620.021	49.48	-8.97	40.51	54	-13.49	AV
Horizontal	15930.082	61.91	-7.72	54.19	74	-19.81	PK
Horizontal	15930.082	49.55	-7.72	41.83	54	-12.17	AV

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

Test Mode:	TX(5.6G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.077	71.09	-20.73	50.36	68.2	-17.84	PK
Vertical	4434.077	59.43	-20.73	38.70	54	-15.30	AV
Vertical	11000.088	61.10	-8.40	52.70	68.2	-15.50	PK
Vertical	11000.088	49.69	-8.40	41.29	54	-12.71	AV
Vertical	16500.040	63.31	-6.09	57.22	74	-16.78	PK
Vertical	16500.040	49.02	-6.09	42.93	54	-11.07	AV
Horizontal	4434.142	72.36	-20.73	51.63	68.2	-16.57	PK
Horizontal	4434.142	59.81	-20.73	39.08	54	-14.92	AV
Horizontal	11000.143	62.30	-8.40	53.90	68.2	-14.30	PK
Horizontal	11000.143	49.58	-8.40	41.18	54	-12.82	AV
Horizontal	16500.014	62.80	-6.09	56.71	74	-17.29	PK
Horizontal	16500.014	49.98	-6.09	43.89	54	-10.11	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.090	73.21	-20.42	52.80	74	-21.20	PK
Vertical	4592.090	59.38	-20.42	38.96	54	-15.04	AV
Vertical	11160.015	60.61	-8.53	52.08	68.2	-16.12	PK
Vertical	11160.015	49.69	-8.53	41.16	54	-12.84	AV
Vertical	16740.156	64.24	-5.31	58.93	74	-15.07	PK
Vertical	16740.156	49.50	-5.31	44.19	54	-9.81	AV
Horizontal	4592.010	71.87	-20.42	51.46	74	-22.54	PK
Horizontal	4592.010	59.58	-20.42	39.16	54	-14.84	AV
Horizontal	11160.070	60.74	-8.53	52.21	68.2	-15.99	PK
Horizontal	11160.070	49.84	-8.53	41.31	54	-12.69	AV
Horizontal	16740.005	63.69	-5.31	58.38	74	-15.62	PK
Horizontal	16740.005	49.13	-5.31	43.82	54	-10.18	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.008	71.54	-20.12	51.42	74	-22.58	PK
Vertical	4739.008	59.21	-20.12	39.09	54	-14.91	AV
Vertical	11400.101	62.39	-8.72	53.67	68.2	-14.53	PK
Vertical	11400.101	49.33	-8.72	40.61	54	-13.39	AV
Vertical	17100.055	61.59	-3.92	57.67	74	-16.33	PK
Vertical	17100.055	49.10	-3.92	45.18	54	-8.82	AV
Horizontal	4739.151	70.93	-20.12	50.80	74	-23.20	PK
Horizontal	4739.151	59.89	-20.12	39.77	54	-14.23	AV
Horizontal	11400.044	63.20	-8.72	54.48	68.2	-13.72	PK
Horizontal	11400.044	49.87	-8.72	41.15	54	-12.85	AV
Horizontal	17100.124	61.97	-3.92	58.05	74	-15.95	PK
Horizontal	17100.124	49.13	-3.92	45.21	54	-8.79	AV

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

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

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

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

Test Mode:	TX(5.6G) - 802.11n-HT20
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G							
Vertical	4434.160	74.30	-20.73	53.57	68.2	-14.63	PK
Vertical	4434.160	59.92	-20.73	39.19	54	-14.81	AV
Vertical	11000.072	64.27	-8.40	55.87	68.2	-12.33	PK
Vertical	11000.072	49.70	-8.40	41.30	54	-12.70	AV
Vertical	16500.093	62.96	-6.09	56.87	74	-17.13	PK
Vertical	16500.093	49.06	-6.09	42.97	54	-11.03	AV
Horizontal	4434.108	72.83	-20.73	52.09	68.2	-16.11	PK
Horizontal	4434.108	59.08	-20.73	38.35	54	-15.65	AV
Horizontal	11000.074	62.55	-8.40	54.15	68.2	-14.05	PK
Horizontal	11000.074	49.25	-8.40	40.85	54	-13.15	AV
Horizontal	16500.092	62.13	-6.09	56.04	74	-17.96	PK
Horizontal	16500.092	49.06	-6.09	42.97	54	-11.03	AV
middle Channel (5580 MHz)-Above 1G							
Vertical	4592.110	72.26	-20.42	51.84	74	-22.16	PK
Vertical	4592.110	59.60	-20.42	39.19	54	-14.81	AV
Vertical	11160.083	62.17	-8.53	53.64	68.2	-14.56	PK
Vertical	11160.083	49.24	-8.53	40.71	54	-13.29	AV
Vertical	16740.159	64.22	-5.31	58.91	74	-15.09	PK
Vertical	16740.159	49.43	-5.31	44.12	54	-9.88	AV
Horizontal	4592.127	70.95	-20.42	50.53	74	-23.47	PK
Horizontal	4592.127	59.88	-20.42	39.46	54	-14.54	AV
Horizontal	11160.121	64.37	-8.53	55.84	68.2	-12.36	PK
Horizontal	11160.121	49.94	-8.53	41.41	54	-12.59	AV
Horizontal	16740.184	62.91	-5.31	57.60	74	-16.40	PK
Horizontal	16740.184	49.35	-5.31	44.04	54	-9.96	AV
High Channel (5700 MHz)-Above 1G							
Vertical	4739.053	70.99	-20.12	50.87	74	-23.13	PK
Vertical	4739.053	59.34	-20.12	39.22	54	-14.78	AV
Vertical	11400.163	63.82	-8.72	55.10	68.2	-13.10	PK
Vertical	11400.163	49.22	-8.72	40.50	54	-13.50	AV
Vertical	17100.006	64.98	-3.92	61.06	74	-12.94	PK
Vertical	17100.006	49.85	-3.92	45.93	54	-8.07	AV
Horizontal	4739.148	73.78	-20.12	53.66	74	-20.34	PK
Horizontal	4739.148	59.92	-20.12	39.79	54	-14.21	AV
Horizontal	11400.143	64.93	-8.72	56.21	68.2	-11.99	PK
Horizontal	11400.143	49.06	-8.72	40.34	54	-13.66	AV
Horizontal	17100.098	60.26	-3.92	56.34	74	-17.66	PK
Horizontal	17100.098	49.05	-3.92	45.13	54	-8.87	AV

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

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

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

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

Test Mode:	TX(5.6G) - 802.11n-HT40
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5510 MHz)-Above 1G							
Vertical	4434.012	60.25	-20.73	39.51	68.2	-28.69	PK
Vertical	4434.012	43.74	-20.73	23.01	54	-30.99	AV
Vertical	11020.052	60.29	-8.42	51.87	68.2	-16.33	PK
Vertical	11020.052	43.98	-8.42	35.56	54	-18.44	AV
Vertical	16530.109	63.55	-5.99	57.56	74	-16.44	PK
Vertical	16530.109	43.29	-5.99	37.30	54	-16.70	AV
Horizontal	4434.149	63.68	-20.73	42.95	74	-31.05	PK
Horizontal	4434.149	43.21	-20.73	22.48	54	-31.52	AV
Horizontal	11020.107	53.50	-8.42	45.08	68.2	-23.12	PK
Horizontal	11020.107	43.28	-8.42	34.86	54	-19.14	AV
Horizontal	16530.187	52.85	-5.99	46.86	74	-27.14	PK
Horizontal	16530.187	43.00	-5.99	37.01	54	-16.99	AV
middle Channel (5550 MHz)-Above 1G							
Vertical	4592.164	62.77	-20.42	42.36	74	-31.64	PK
Vertical	4592.164	43.92	-20.42	23.50	54	-30.50	AV
Vertical	11100.038	62.94	-8.40	54.54	68.2	-13.66	PK
Vertical	11100.038	43.49	-8.40	35.09	54	-18.91	AV
Vertical	16650.125	63.21	-5.60	57.61	74	-16.39	PK
Vertical	16650.125	43.37	-5.60	37.77	54	-16.23	AV
Horizontal	4592.119	64.64	-20.42	44.22	74	-29.78	PK
Horizontal	4592.119	43.11	-20.42	22.70	54	-31.30	AV
Horizontal	11100.138	53.93	-8.40	45.53	68.2	-22.67	PK
Horizontal	11100.138	41.24	-8.40	32.84	54	-21.16	AV
Horizontal	16650.160	51.83	-5.60	46.23	74	-27.77	PK
Horizontal	16650.160	42.85	-5.60	37.25	54	-16.75	AV
High Channel (5670 MHz)-Above 1G							
Vertical	4739.169	60.74	-20.12	40.62	68.2	-27.58	PK
Vertical	4739.169	43.28	-20.12	23.16	54	-30.84	AV
Vertical	11340.164	62.02	-8.67	53.35	68.2	-14.85	PK
Vertical	11340.164	43.46	-8.67	34.79	54	-19.21	AV
Vertical	17010.069	60.04	-4.41	55.63	74	-18.37	PK
Vertical	17010.069	43.25	-4.41	38.84	54	-15.16	AV
Horizontal	4739.038	63.15	-20.12	43.03	68.2	-25.17	PK
Horizontal	4739.038	43.05	-20.12	22.93	54	-31.07	AV
Horizontal	11340.111	54.75	-8.67	46.08	68.2	-22.12	PK
Horizontal	11340.111	43.34	-8.67	34.67	54	-19.33	AV
Horizontal	17010.132	53.41	-4.41	49.00	74	-25.00	PK
Horizontal	17010.132	44.59	-4.41	40.18	54	-13.82	AV

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

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

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

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

Test Mode:	TX(5.8G) - 802.11a
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Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.031	70.97	-20.24	50.73	74	-23.27	PK
Vertical	4679.031	59.88	-20.24	39.64	54	-14.36	AV
Vertical	11490.175	64.44	-8.79	55.65	68.2	-12.55	PK
Vertical	11490.175	49.23	-8.79	40.44	54	-13.56	AV
Vertical	17235.075	57.96	-3.18	54.78	68.2	-13.42	PK
Vertical	17235.075	44.55	-3.18	41.37	54	-12.63	AV
Horizontal	4679.119	72.71	-20.73	51.98	74	-22.02	PK
Horizontal	4679.119	59.73	-20.73	39.00	54	-15.00	AV
Horizontal	11490.145	62.44	-8.79	53.65	68.2	-14.55	PK
Horizontal	11490.145	49.67	-8.79	40.88	54	-13.12	AV
Horizontal	17235.080	55.93	-3.18	52.75	68.2	-15.45	PK
Horizontal	17235.080	44.42	-3.18	41.24	54	-12.76	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.138	73.06	-20.42	52.65	74	-21.35	PK
Vertical	4592.138	59.65	-20.42	39.23	54	-14.77	AV
Vertical	11570.045	60.22	-8.86	51.36	68.2	-16.84	PK
Vertical	11570.045	49.71	-8.86	40.85	54	-13.15	AV
Vertical	17355.186	59.07	-2.52	56.55	68.2	-11.65	PK
Vertical	17355.186	44.11	-2.52	41.59	54	-12.41	AV
Horizontal	4592.111	74.58	-20.42	54.17	74	-19.83	PK
Horizontal	4592.111	59.35	-20.42	38.94	54	-15.06	AV
Horizontal	11570.158	63.01	-8.86	54.15	68.2	-14.05	PK
Horizontal	11570.158	49.73	-8.86	40.87	54	-13.13	AV
Horizontal	17355.112	57.47	-2.52	54.95	68.2	-13.25	PK
Horizontal	17355.112	44.95	-2.52	42.43	54	-11.57	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.093	74.77	-18.93	55.84	68.2	-12.36	PK
Vertical	6039.093	59.97	-18.93	41.03	54	-12.97	AV
Vertical	11650.004	63.36	-8.92	54.44	74	-19.56	PK
Vertical	11650.004	49.50	-8.92	40.58	54	-13.42	AV
Vertical	17475.148	57.59	-1.86	55.73	68.2	-12.47	PK
Vertical	17475.148	44.34	-1.86	42.48	54	-11.52	AV
Horizontal	6039.092	72.98	-18.93	54.05	68.2	-14.15	PK
Horizontal	6039.092	59.27	-18.93	40.34	54	-13.66	AV
Horizontal	11650.183	62.35	-8.92	53.43	74	-20.57	PK
Horizontal	11650.183	49.70	-8.92	40.78	54	-13.22	AV
Horizontal	17475.058	57.30	-1.86	55.44	68.2	-12.76	PK
Horizontal	17475.058	44.03	-1.86	42.17	54	-11.83	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) - 802.11n-HT20

Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
Vertical	4679.051	70.10	-20.24	49.86	74	-24.14	PK
Vertical	4679.051	59.83	-20.24	39.59	54	-14.41	AV
Vertical	11490.086	64.61	-8.79	55.82	68.2	-12.38	PK
Vertical	11490.086	49.80	-8.79	41.01	54	-12.99	AV
Vertical	17235.055	56.08	-3.18	52.90	68.2	-15.30	PK
Vertical	17235.055	44.94	-3.18	41.76	54	-12.24	AV
Horizontal	4679.099	73.60	-20.24	53.36	74	-20.64	PK
Horizontal	4679.099	59.83	-20.24	39.59	54	-14.41	AV
Horizontal	11490.106	60.52	-8.79	51.73	68.2	-16.47	PK
Horizontal	11490.106	49.51	-8.79	40.72	54	-13.28	AV
Horizontal	17235.088	56.57	-3.18	53.39	68.2	-14.81	PK
Horizontal	17235.088	44.91	-3.18	41.73	54	-12.27	AV
middle Channel (5785 MHz)-Above 1G							
Vertical	4592.008	72.80	-20.42	52.39	74	-21.61	PK
Vertical	4592.008	59.06	-20.42	38.65	54	-15.35	AV
Vertical	11570.155	62.88	-8.86	54.02	68.2	-14.18	PK
Vertical	11570.155	49.32	-8.86	40.46	54	-13.54	AV
Vertical	17355.085	56.45	-2.52	53.93	68.2	-14.27	PK
Vertical	17355.085	44.16	-2.52	41.64	54	-12.36	AV
Horizontal	4592.179	70.54	-20.42	50.12	74	-23.88	PK
Horizontal	4592.179	59.06	-20.42	38.65	54	-15.35	AV
Horizontal	11570.145	64.43	-8.86	55.57	68.2	-12.63	PK
Horizontal	11570.145	49.25	-8.86	40.39	54	-13.61	AV
Horizontal	17355.058	57.75	-2.52	55.23	68.2	-12.97	PK
Horizontal	17355.058	44.41	-2.52	41.89	54	-12.11	AV
High Channel (5825 MHz)-Above 1G							
Vertical	6039.020	70.06	-18.93	51.13	68.2	-17.07	PK
Vertical	6039.020	59.56	-18.93	40.63	54	-13.37	AV
Vertical	11650.153	60.71	-8.92	51.79	74	-22.21	PK
Vertical	11650.153	49.11	-8.92	40.19	54	-13.81	AV
Vertical	17475.110	59.56	-1.86	57.70	68.2	-10.50	PK
Vertical	17475.110	44.12	-1.86	42.26	54	-11.74	AV
Horizontal	6039.039	73.18	-18.93	54.25	68.2	-13.95	PK
Horizontal	6039.039	59.17	-18.93	40.24	54	-13.76	AV
Horizontal	11650.122	63.59	-8.92	54.67	74	-19.33	PK
Horizontal	11650.122	49.08	-8.92	40.16	54	-13.84	AV
Horizontal	17475.069	59.62	-1.86	57.76	68.2	-10.44	PK
Horizontal	17475.069	44.25	-1.86	42.39	54	-11.61	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	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
Vertical	4679.081	70.87	-20.24	50.63	74	-23.37	PK
Vertical	4679.081	59.52	-20.24	39.28	54	-14.72	AV
Vertical	11510.065	60.73	-8.81	51.92	74	-22.08	PK
Vertical	11510.065	49.37	-8.81	40.56	54	-13.44	AV
Vertical	17265.144	58.08	-3.01	55.07	68.2	-13.13	PK
Vertical	17265.144	44.87	-3.01	41.86	54	-12.14	AV
Horizontal	4679.006	71.06	-20.24	50.82	74	-23.18	PK
Horizontal	4679.006	59.87	-20.24	39.62	54	-14.38	AV
Horizontal	11510.139	60.74	-8.81	51.93	74	-22.07	PK
Horizontal	11510.139	49.76	-8.81	40.95	54	-13.05	AV
Horizontal	17265.119	55.21	-3.01	52.20	68.2	-16.00	PK
Horizontal	17265.119	44.59	-3.01	41.58	54	-12.42	AV
High Channel (5795 MHz)-Above 1G							
Vertical	6039.001	74.43	-18.93	55.50	68.2	-12.70	PK
Vertical	6039.001	59.85	-18.93	40.92	54	-13.08	AV
Vertical	11590.095	63.86	-8.87	54.99	74	-19.01	PK
Vertical	11590.095	49.80	-8.87	40.93	54	-13.07	AV
Vertical	17385.162	59.52	-2.35	57.17	68.2	-11.03	PK
Vertical	17385.162	44.04	-2.35	41.69	54	-12.31	AV
Horizontal	6039.060	71.62	-18.93	52.69	68.2	-15.51	PK
Horizontal	6039.060	59.60	-18.93	40.66	54	-13.34	AV
Horizontal	11590.163	64.38	-8.87	55.51	74	-18.49	PK
Horizontal	11590.163	49.86	-8.87	40.99	54	-13.01	AV
Horizontal	17385.064	57.57	-2.35	55.22	68.2	-12.98	PK
Horizontal	17385.064	44.50	-2.35	42.15	54	-11.85	AV

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

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

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

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

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

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

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

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

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

For the band 5.725-5.85 GHz

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

8.3 Test Procedure

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

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

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

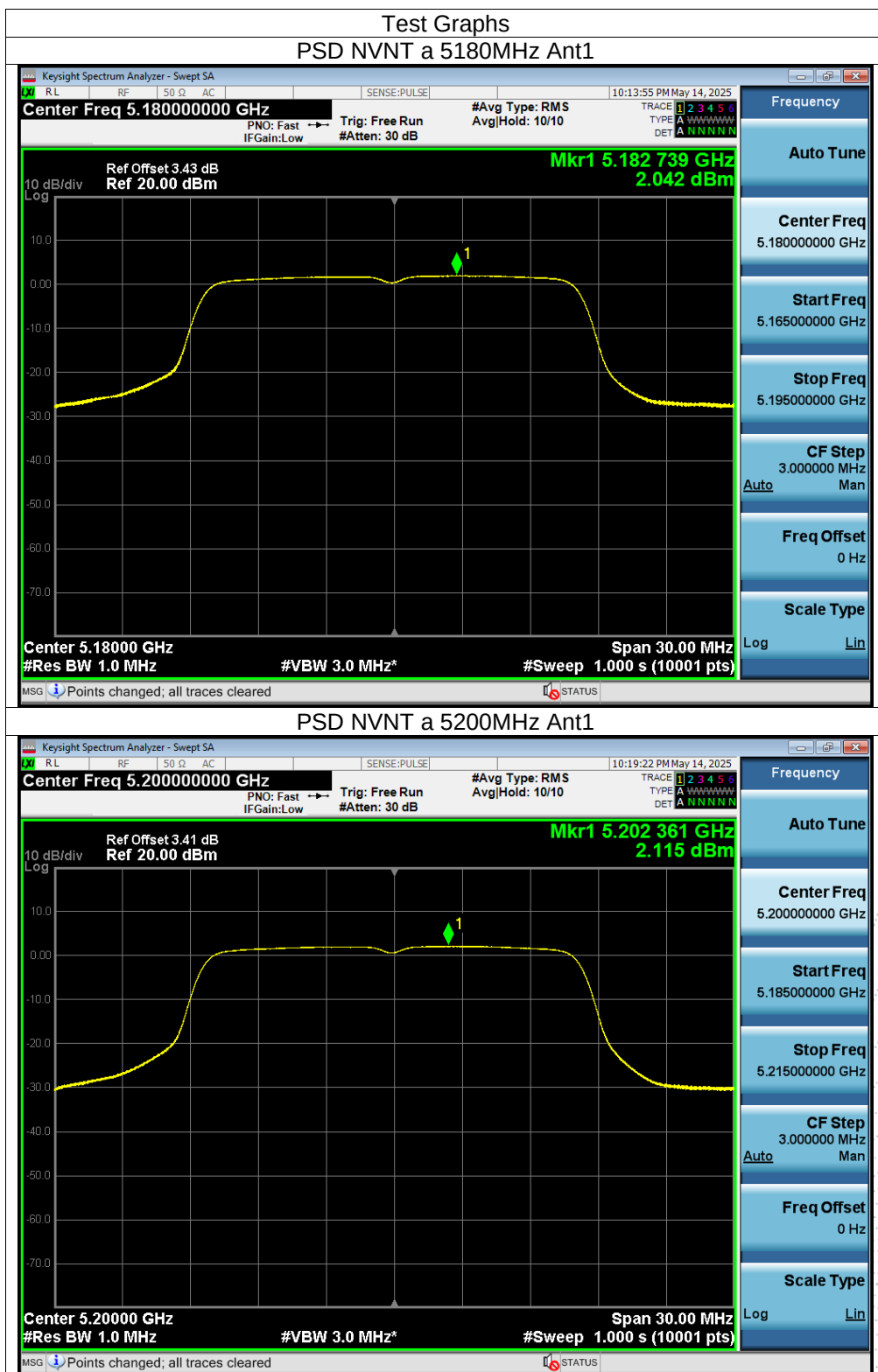
8.4 EUT Operating Conditions

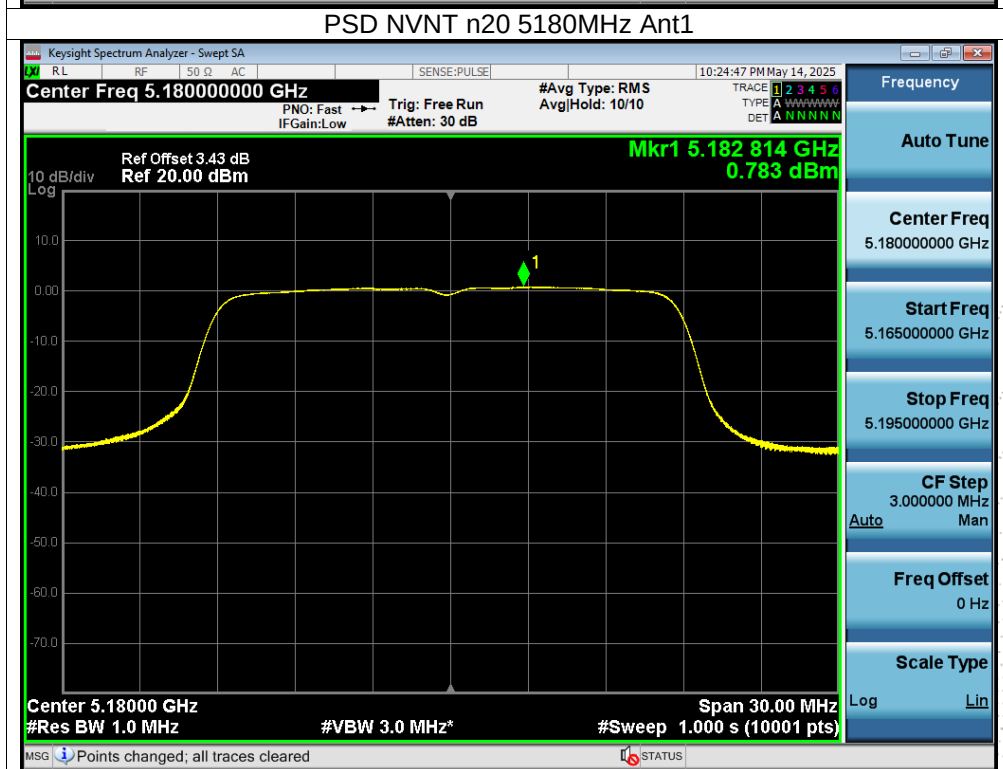
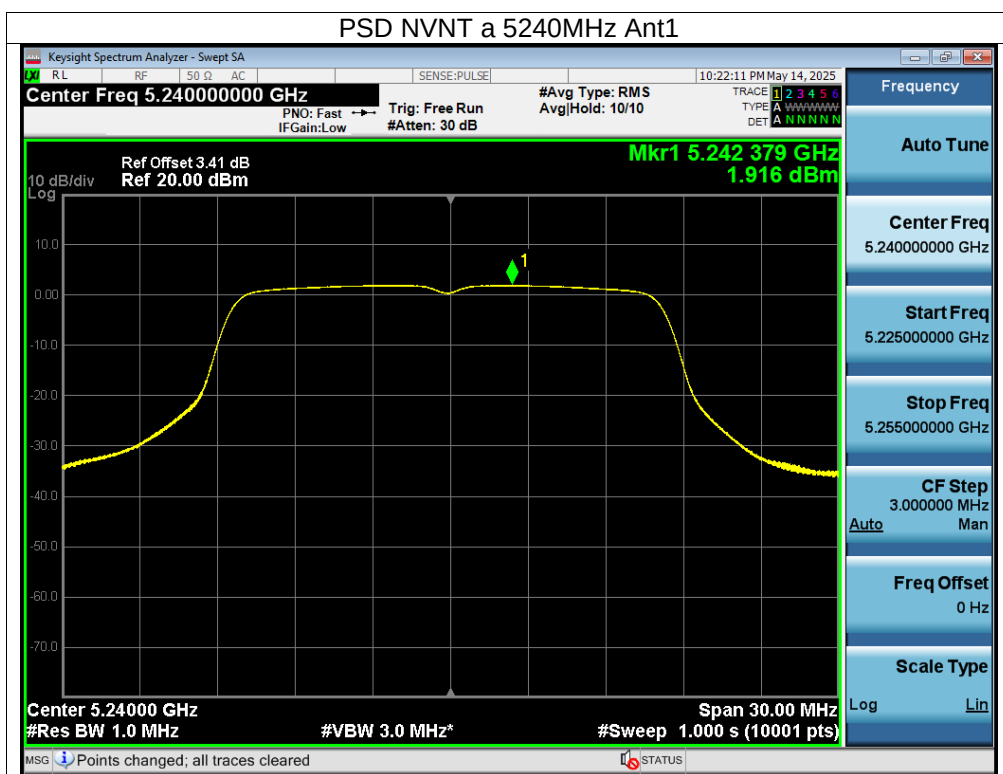
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

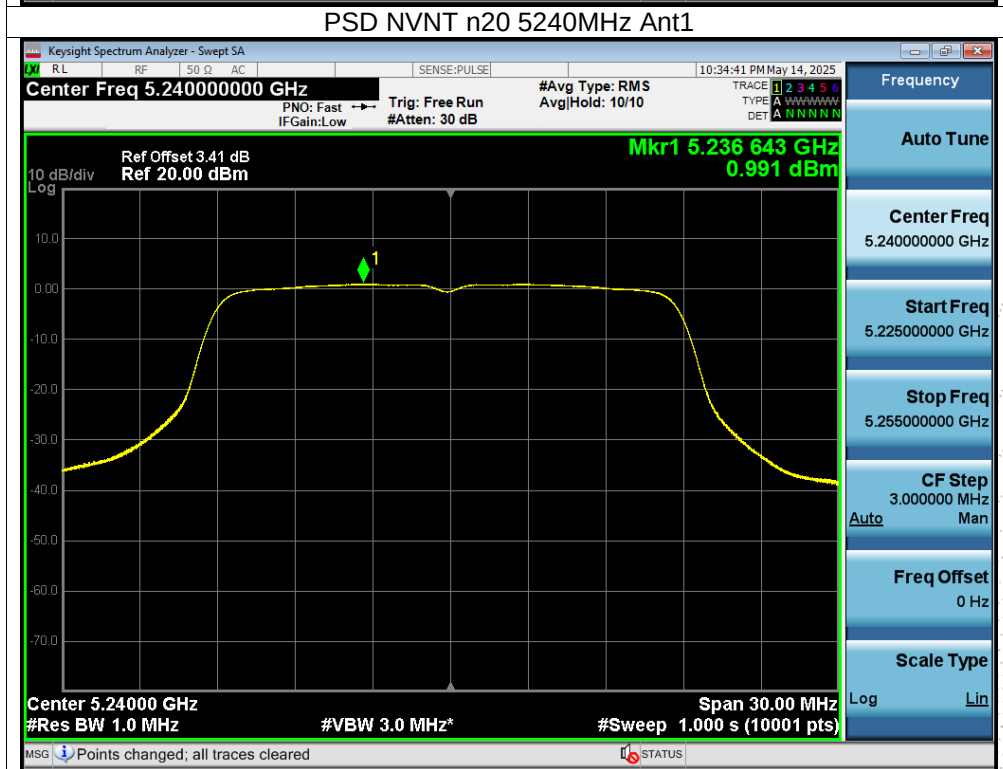
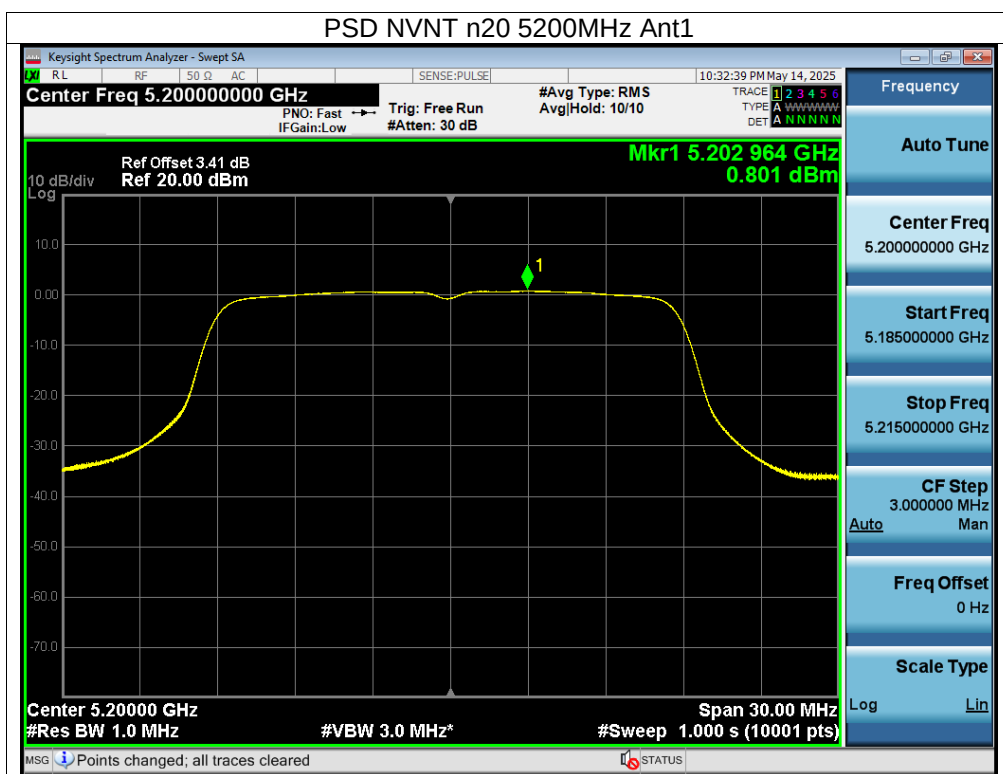
8.5 Test Result

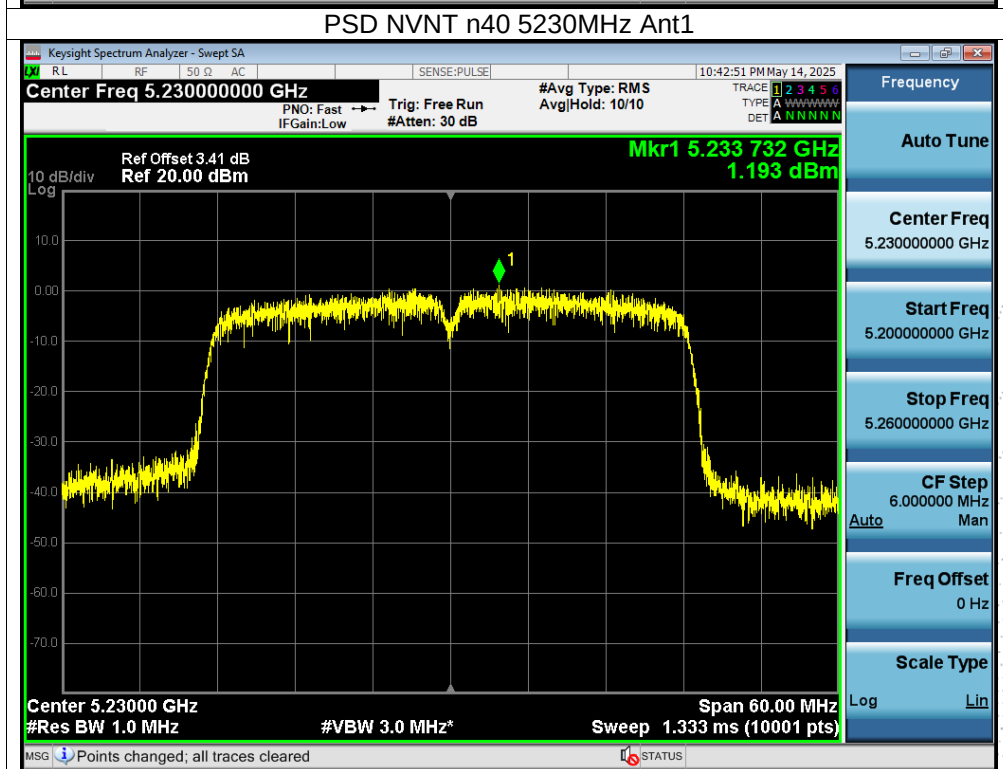
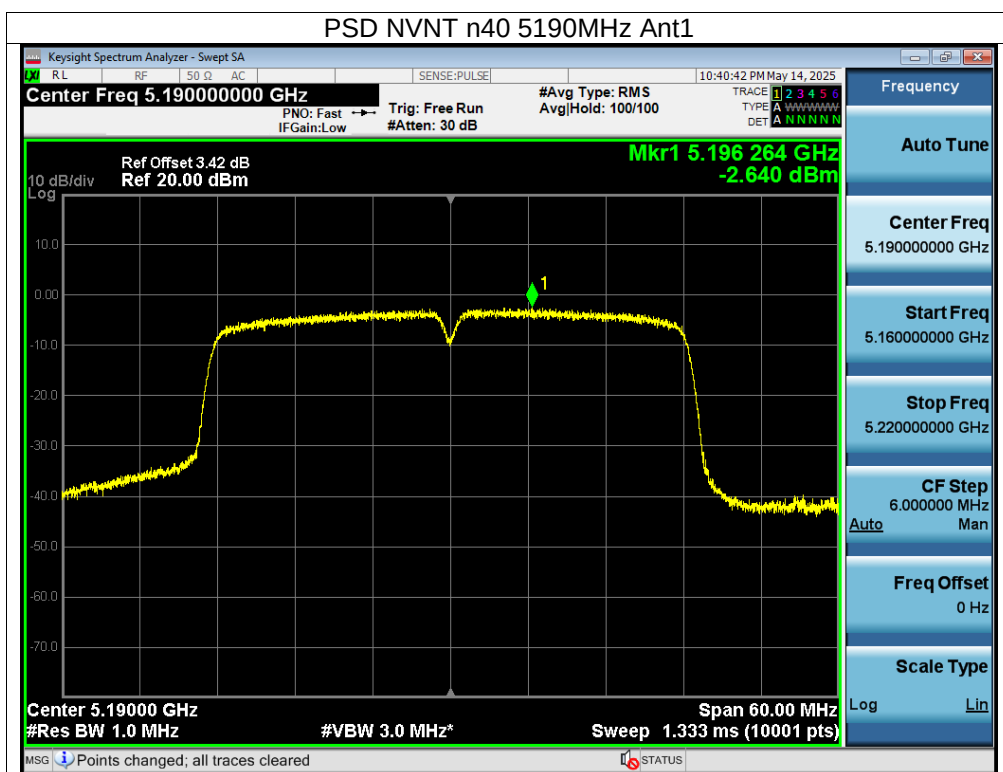
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	2.04	11	Pass
NVNT	a	5200	2.12	11	Pass
NVNT	a	5240	1.92	11	Pass
NVNT	n20	5180	0.78	11	Pass
NVNT	n20	5200	0.8	11	Pass
NVNT	n20	5240	0.99	11	Pass
NVNT	n40	5190	-2.64	11	Pass
NVNT	n40	5230	1.19	11	Pass









Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.3V
Test Mode:	(5260-5320MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	2.89	11	Pass
NVNT	a	5280	3.09	11	Pass
NVNT	a	5320	2.54	11	Pass
NVNT	n20	5260	1.63	11	Pass
NVNT	n20	5280	1.83	11	Pass
NVNT	n20	5320	2.05	11	Pass
NVNT	n40	5270	-2.31	11	Pass
NVNT	n40	5310	-2.02	11	Pass

