



诺检标准
NTT STANDARD

TEST REPORT

FCC ID:2BW28-NX15

Product : Notebook

Model Name : NX15J

Series model : NX15R, Y141, 1142, NX15A, NX15E, NX15D, NX15I, NX15G, NX15T, T156, NX15, E142, NX15P, NX15U, NX15Q, NX15X, NX15Z, NX15H

Brand : BENXIAOHAI

Report No. : SZNTT26025053E1-4

Prepared for

Huayao Dingsheng (Shenzhen) Technology Co., Ltd.
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Prepared by

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1 TEST RESULT CERTIFICATION

Applicant : Huayao Dingsheng (Shenzhen) Technology Co., Ltd.
Address : 5th Floor, Building A6, Tianrui Industrial Park, No. 35, Fuyuan 1st Road, Zhancheng Community, Fuhai Subdistrict, Shenzhen, China
Manufacturer : Huayao Dingsheng (Shenzhen) Technology Co., Ltd.
Address : 5th Floor, Building A6, Tianrui Industrial Park, No. 35, Fuyuan 1st Road, Zhancheng Community, Fuhai Subdistrict, Shenzhen, China
Product name : Notebook
Model name : NX15J
Additional model : NX15R, Y141, 1142, NX15A, NX15E, NX15D, NX15I, NX15G, NX15T, T156, NX15, E142, NX15P, NX15U, NX15Q, NX15X, NX15Z, NX15H
Standards : FCC CFR47 Part 15 Section 15.247
Test procedure : ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Date of test : Jun. 17, 2026 to Aug. 05, 2026
Date of Issue : Aug. 06, 2026

This device described above has been tested by NTT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Prepared by (Test Engineer):

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Reviewer (Supervisor):

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Approved (Manager):

Abel Yu



Contents

Page

1 TEST RESULT CERTIFICATION	2
2 TEST SUMMARY	5
3 TEST FACILITY	6
4 GENERAL INFORMATION	7
4.1 GENERAL DESCRIPTION OF E.U.T.	7
4.2 TEST SETUP CONFIGURATION	10
4.3 TEST MODE	10
5 EQUIPMENT DURING TEST	11
5.1 EQUIPMENTS LIST	11
5.2 MEASUREMENT UNCERTAINTY	13
5.3 DESCRIPTION OF SUPPORT UNITS	13
6 CONDUCTED EMISSION	14
6.1 E.U.T. OPERATION	14
6.2 EUT SETUP	14
6.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	15
6.4 MEASUREMENT PROCEDURE:	15
6.5 CONDUCTED EMISSION LIMIT	15
6.6 MEASUREMENT DESCRIPTION	16
6.7 CONDUCTED EMISSION TEST RESULT	16
7 RADIATED SPURIOUS EMISSIONS	21
7.1 EUT OPERATION	22
7.2 TEST SETUP	23
7.3 SPECTRUM ANALYZER SETUP	25
7.4 TEST PROCEDURE	26
7.5 SUMMARY OF TEST RESULTS	27
8 DUTY CYCLE	60
8.1 LIMIT	60
8.2 TEST SETUP	60
8.3 TEST PROCEDURE	60



8.4 TEST RESULT	60
9 POWER SPECTRAL DENSITY TEST	61
9.1 TEST STANDARD AND LIMIT	61
9.2 TEST SETUP	62
9.3 TEST PROCEDURE	62
9.4 TEST DATA	62
10 26DB & 6DB & 99% EMISSION BANDWIDTH TEST	63
10.1 TEST STANDARD	63
10.2 TEST SETUP	63
10.3 TEST PROCEDURE	63
10.4 TEST DATA	64
11 MAXIMUM CONDUCTED OUTPUT POWER	65
11.1 TEST STANDARD AND LIMIT	65
11.2 TEST SETUP	66
11.3 TEST PROCEDURE	66
11.4 TEST DATA	67
12 OUT OF BAND EMISSIONS AND SPURIOUS EMISSION	68
12.1 TEST STANDARD AND LIMIT	68
12.2 TEST SETUP	68
12.3 TEST PROCEDURE	68
12.4 TEST DATA	68
13 FREQUENCY STABILITY MEASUREMENT	69
13.1 TEST STANDARD AND LIMIT	69
13.2 TEST SETUP	69
13.3 TEST PROCEDURE	69
13.4 TEST DATA	69
14 ANTENNA REQUIREMENT	70
14.1 TEST STANDARD AND REQUIREMENT	70
14.2 ANTENNA CONNECTED CONSTRUCTION	70
15 TEST SETUP & EUT PHOTOGRAPH	71



2 Test Summary

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.407(b), 15.209	Radiated Spurious Emission	PASS	
15.207	AC Power Line conducted emission	PASS	
15.407 (a) 15.407 (e)	99% , 6dB and 26dB Bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407(b)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(g)	Frequency Stability	PASS	
15.203	Antenna Requirement	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.



3 TEST FACILITY

Site Description

Designation Number: CN3446

EMC Lab.

: Test Firm Registration Number: 129414
Accredited by ANAB, Dec. 19, 2025
The Certificate Registration Number is AT-3446

Name of Firm

: Shenzhen NTT Testing Technology Co., Ltd.

Site Location

: 1B, Building 2, Factory Building & 103, Building 3, Factory Building, Dayang Industrial Park No.4, Industrial Avenue, Tangwei Community, Fuhai Sub-district, Bao'an District, Shenzhen City, China



4 General Information

4.1 General Description of E.U.T.

Product Name:	Notebook
Model No.:	NX15J
Sample ID:	SZNTT26025053E1-001#
Sample(s) Status:	Engineer sample
Series model:	NX15R, Y141, 1142, NX15A, NX15E, NX15D, NX15I, NX15G, NX15T, T156, NX15, E142, NX15P, NX15U, NX15Q, NX15X, NX15Z, NX15H
Model Different.:	All the models are the same circuit and RF module, except the model name and appearance color.
Operation Frequency:	UNII-1: 5180MHz~5240MHz UNII-3: 5745MHz~5825MHz
Number of Channel:	UNII-1: 4 channels for 20MHz bandwidth 2 channels for 40MHz bandwidth 1 channels for 80MHz bandwidth UNII-3: 5 channels for 20MHz bandwidth 2 channels for 40MHz bandwidth 1 channels for 80MHz bandwidth
Modulation type:	802.11a: (64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11n: (64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac: (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM
Number of transmit:	2 (802.11a/n(HT20)/n(HT40)/ac(VHT20)/ac(VHT40)/ac(VHT80) all used two antennas, but 802.11a support SISO and 802.11a/n(HT20)/n(HT40)/ac(VHT20)/ac(VHT40)/ac(VHT80) support MIMO)
Antenna Type:	FPC
Antenna gain:	UNII-1: 5180MHz~5240MHz ANT1(Main): 3.13dBi ANT2(AUX): 1.24dBi UNII-3: 5745MHz~5825MHz ANT1(Main): 3.42dBi ANT2(AUX): 3.6dBi
Directional gain:	Directional gain= $10\log((10^{G1/20}+10^{G2/20})^2 / N_{ANT})$ UNII-1: 5180MHz~5240MHz Directional gain= $10\log((10^{0.1565}+10^{0.062})^2 / 2)=5.25$ UNII-3: 5745MHz~5825MHz Directional gain= $10\log((10^{0.171}+10^{0.18})^2 / N_{ANT})=6.52$



Power supply:	DC 7.6V from battery; Charging input: DC 12V
Adapter:	Model: M120300-A078 Input: 100-240V~50/60Hz 0.8A Output: 12.0V $\pm$ 3.0A 36.0W
Hardware Version:	V312 V31
Software Version:	BZRC300-600F1BTL-0COIT-V312-5C06-VO03.bin
Remark:	the Antenna gain is provided by customer from Antenna spec. and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.



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

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

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

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

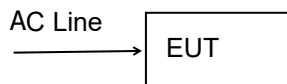
802.11/n/ac(40MHz) Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac(80MHz) Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775	-	-	-	-

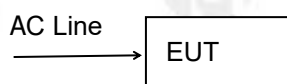


4.2 Test Setup Configuration

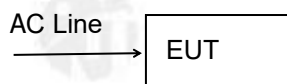
Conducted Emission



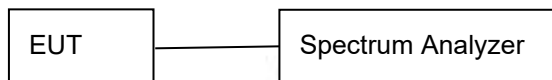
Radiated Emission(30MHz-1GHz)



Radiated Emission(above 1GHz)



RF Conducted Test



4.3 Test Mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Test Software	MPTool
Power level setup	Default



5 Equipment During Test

5.1 Equipments List

Conducted emission Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	HSRCE944	/	HTEC	2025/4/30	2028/4/29
EMI Test Receiver	ESCI	/	RS	2025/9/8	2026/9/7
LISN	NNLK 8129	00603	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00694	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00680	Schwarzbeck	2025/9/8	2026/9/7
Cable	RG223-1500MM	NA	RG	2025/9/8	2026/9/7

Radiated emission & Radio Frequency Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/7/24	2028/7/23
EMI Test Receiver	ESCI	101018	RS	2025/9/8	2026/9/7
Amplifier (30MHz-1GHz)	BBV 9718D	00042	SCHWARZBECK	2025/9/8	2026/9/7
Bilog Antenna (30MHz-1GHz)	VULB9168	1858	SCHWARZBECK	2025/9/9	2026/9/8
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHWARZBECK	2025/9/9	2026/9/8
Preamplifier (1GHz-18GHz)	BBV 9718D	0024	SCHWARZBECK	2025/9/8	2026/9/7
Spectrum Analyzer (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2025/9/8	2026/9/7
Preamplifier (18GHz-40GHz)	BBV 9721	0056	SCHWARZBECK	2025/9/8	2026/9/7
Double Ridge Guide Horn Antenna (18GHz-40GHz)	SAS-574	588	A.H.System	2025/9/8	2026/9/7



Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHWARZBECK	2025/9/8	2026/9/7
Amplifier (9KHz-30MHz)	CVP 9222 C	00109	SCHWARZBECK	2025/9/8	2026/9/7
MXG Signal Analyzer	N9020A	MY50510202	Agilent	2025/9/8	2026/9/7
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2025/9/8	2026/9/7
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2025/9/8	2026/9/7
Power Sensor	TR1029-2	512364	Techoy	2025/9/8	2026/9/7
Power Meter	ML2495A	/	Anritsu	2025/9/8	2026/9/7
RF Swith	TR1029-1	512364	Techoy	2025/9/8	2026/9/7
Cable	DA800- 4000MM	NA	DA	2025/9/8	2026/9/7
Cable	DA800- 11000MM	NA	DA	2025/9/8	2026/9/7
Oven	GX-3020- M150	NA	GAOXIN	2026/03/10	2027/03/09

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ-EMC	Ver.EMC-CON 3A1.1+
2	EMC radiation test system	FALA	EZ-EMC	Ver.FA-03A2 RE+
3	RF test system	TACHOY	RFTes	V1.0.0
4	RF communication test system	TACHOY	RFTes	V1.0.0



5.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(9KHz~30MHz)	$\pm 4.51\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$
Radiated Emission(25GHz~40GHz)	$\pm 5.36\text{dB}$

Remark: When making a conformity declaration based on test results for regulations/standards or specifications, the default is to use Clause 4.2.1 of ILAC-G8:09/2019 and the guidelines on decision rules and conformity declaration in IEC Guide 115:2023.

5.3 Description of Support Units

The EUT has been tested as an independent unit .



6 Conducted Emission

Test Requirement: : FCC CFR 47 Part 15 Section 15.207

Test Method: : ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Result: : PASS

Frequency Range: : 150kHz to 30MHz

Class/Severity: : Class B

Detector: : Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment :

Temperature: : 26°C

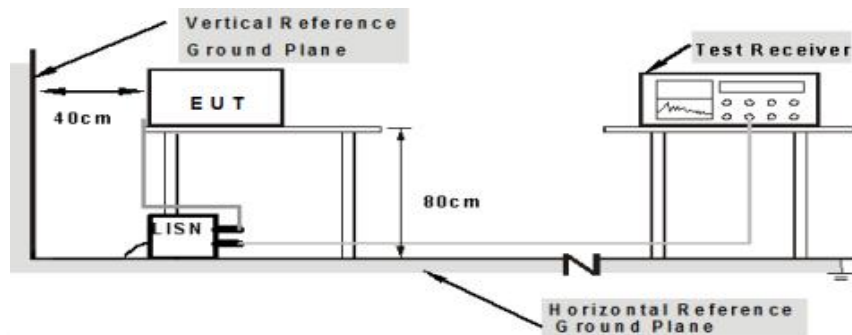
Humidity: : 54 % RH

Atmospheric Pressure: : 101.12 kPa

Test Voltage : AC 120V/60Hz

6.2 EUT Setup

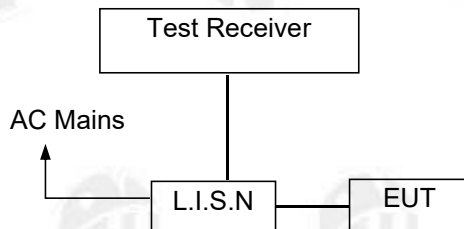
The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020+Cor.1-2023.



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



6.3 Test SET-UP (Block Diagram of Configuration)



6.4 Measurement Procedure:

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item - EUT Test Photos.

6.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



6.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.7 Conducted Emission Test Result

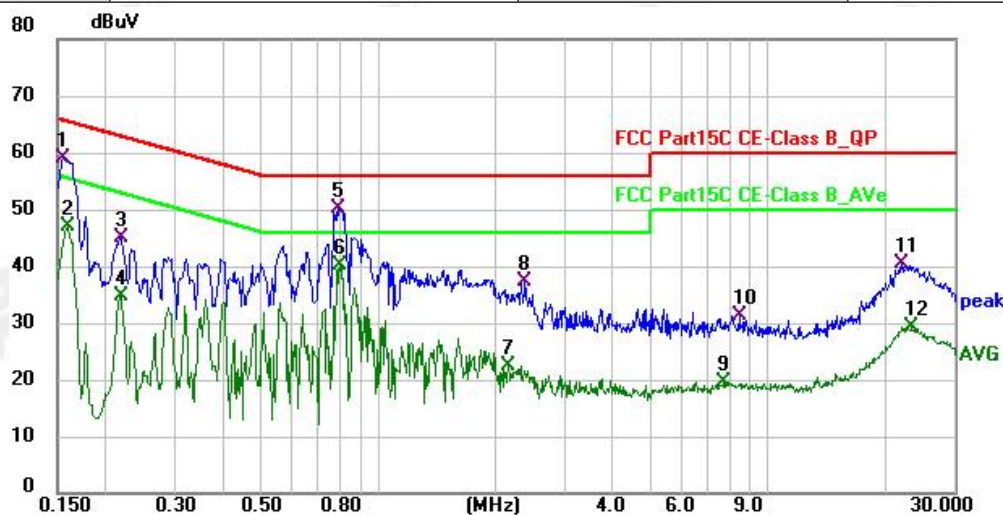
Pass

All modes of both antennas were tested, only the worst data showed in the report.



ANT1 test data

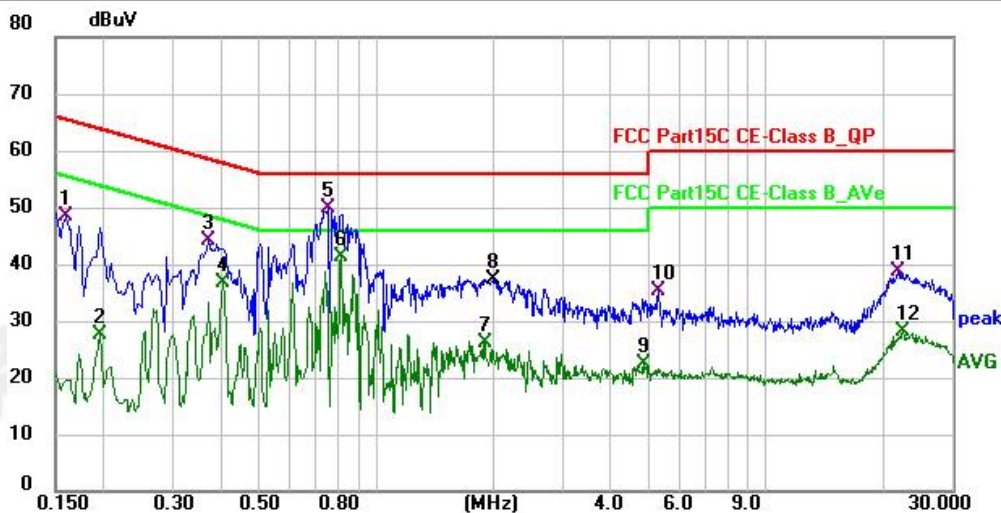
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz	Mode:	802.11a 5745MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1544	48.80	10.18	58.98	65.76	-6.78	QP
2	0.1590	36.89	10.18	47.07	55.52	-8.45	AVG
3	0.2174	34.78	10.16	44.94	62.92	-17.98	QP
4	0.2174	24.69	10.16	34.85	52.92	-18.07	AVG
5	0.7890	39.93	10.13	50.06	56.00	-5.94	QP
6 *	0.7933	30.14	10.13	40.27	46.00	-5.73	AVG
7	2.1524	12.30	10.16	22.46	46.00	-23.54	AVG
8	2.3685	27.19	10.16	37.35	56.00	-18.65	QP
9	7.6650	9.23	10.30	19.53	50.00	-30.47	AVG
10	8.3985	21.00	10.31	31.31	60.00	-28.69	QP
11	22.0560	29.70	10.69	40.39	60.00	-19.61	QP
12	23.3203	18.64	10.75	29.39	50.00	-20.61	AVG



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz	Mode:	802.11a 5745MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1590	38.17	10.19	48.36	65.52	-17.16	QP
2	0.1949	17.54	10.16	27.70	53.83	-26.13	AVG
3	0.3704	34.05	10.12	44.17	58.49	-14.32	QP
4	0.4020	26.70	10.12	36.82	47.81	-10.99	AVG
5	0.7485	39.64	10.12	49.76	56.00	-6.24	QP
6 *	0.8070	31.07	10.13	41.20	46.00	-4.80	AVG
7	1.8960	16.08	10.15	26.23	46.00	-19.77	AVG
8	1.9815	27.13	10.15	37.28	56.00	-18.72	peak
9	4.8300	12.09	10.24	22.33	46.00	-23.67	AVG
10	5.2530	24.99	10.24	35.23	60.00	-24.77	QP
11	21.6870	27.97	10.67	38.64	60.00	-21.36	QP
12	22.3620	17.59	10.69	28.28	50.00	-21.72	AVG

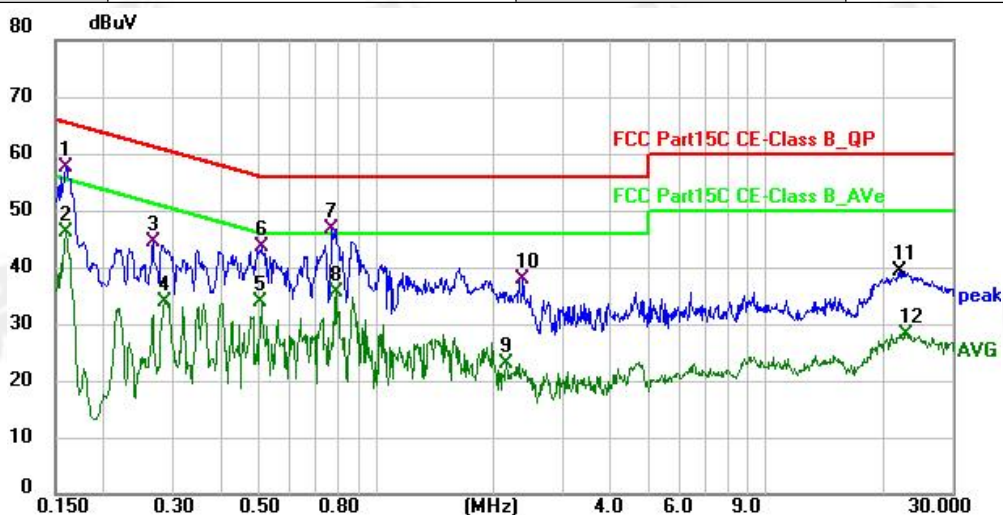
Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor
Correct Factor = Insertion loss of LISN + Cable loss.
4. Margin = Measurement Level - Limit



ANT2 test data

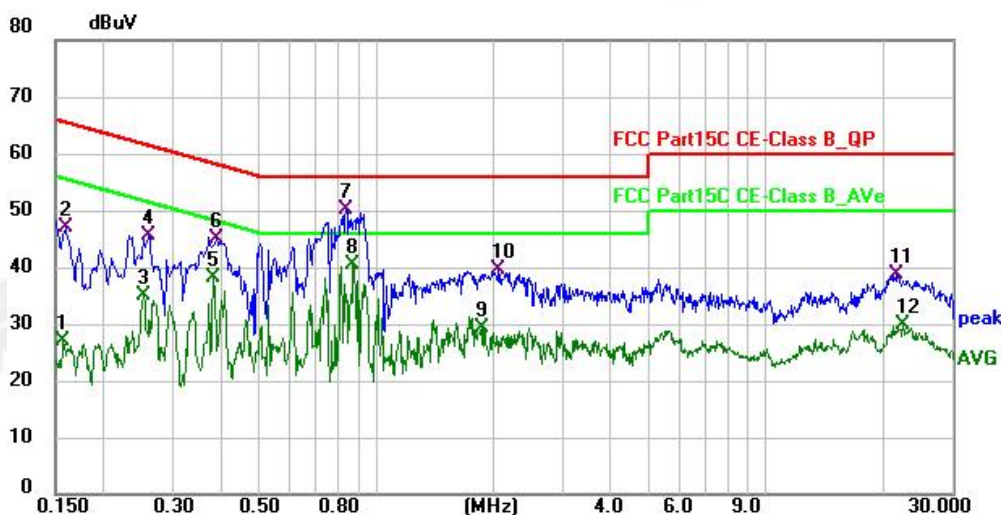
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz	Mode:	802.11a 5745MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.1590	47.37	10.18	57.55	65.52	-7.97	QP
2	0.1590	35.89	10.18	46.07	55.52	-9.45	AVG
3	0.2670	34.22	10.13	44.35	61.21	-16.86	QP
4	0.2847	23.85	10.13	33.98	50.68	-16.70	AVG
5	0.5051	23.85	10.13	33.98	46.00	-12.02	AVG
6	0.5070	33.34	10.13	43.47	56.00	-12.53	QP
7	0.7620	36.55	10.13	46.68	56.00	-9.32	QP
8	0.7842	25.39	10.13	35.52	46.00	-10.48	AVG
9	2.1524	12.80	10.16	22.96	46.00	-23.04	AVG
10	2.3685	27.69	10.16	37.85	56.00	-18.15	QP
11	22.0560	28.70	10.69	39.39	60.00	-20.61	peak
12	22.7580	17.49	10.73	28.22	50.00	-21.78	AVG



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Mode:	802.11a 5745MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1572	16.71	10.19	26.90	55.61	-28.71	AVG
2	0.1590	36.67	10.19	46.86	65.52	-18.66	QP
3	0.2534	24.82	10.14	34.96	51.64	-16.68	AVG
4	0.2600	35.38	10.13	45.51	61.43	-15.92	QP
5	0.3795	27.90	10.12	38.02	48.29	-10.27	AVG
6	0.3885	34.97	10.12	45.09	58.10	-13.01	QP
7	0.8340	39.92	10.13	50.05	56.00	-5.95	QP
8 *	0.8700	30.43	10.13	40.56	46.00	-5.44	AVG
9	1.8510	19.21	10.15	29.36	46.00	-16.64	AVG
10	2.0490	29.44	10.15	39.59	56.00	-16.41	QP
11	21.4481	28.15	10.66	38.81	60.00	-21.19	QP
12	22.3620	19.09	10.69	29.78	50.00	-20.22	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor
Correct Factor = Insertion loss of LISN + Cable loss.
4. Margin = Measurement Level - Limit



7 Radiated Spurious Emissions

: FCC CFR47 Part 15 Section 15.209 & 15.407

Test Requirement

Test Method : ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Result : PASS

Measurement Distance : 3m

Limit : See the follow table

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (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	$20\log^{(500)}$

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



Undesirable emission limits

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge

Requirement	Limit(EIRP)	Limit (Field strength at 3m)
15.407(b)(1)	PK:-27(dBm/MHz)	PK:68.2(dB μ V/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)		

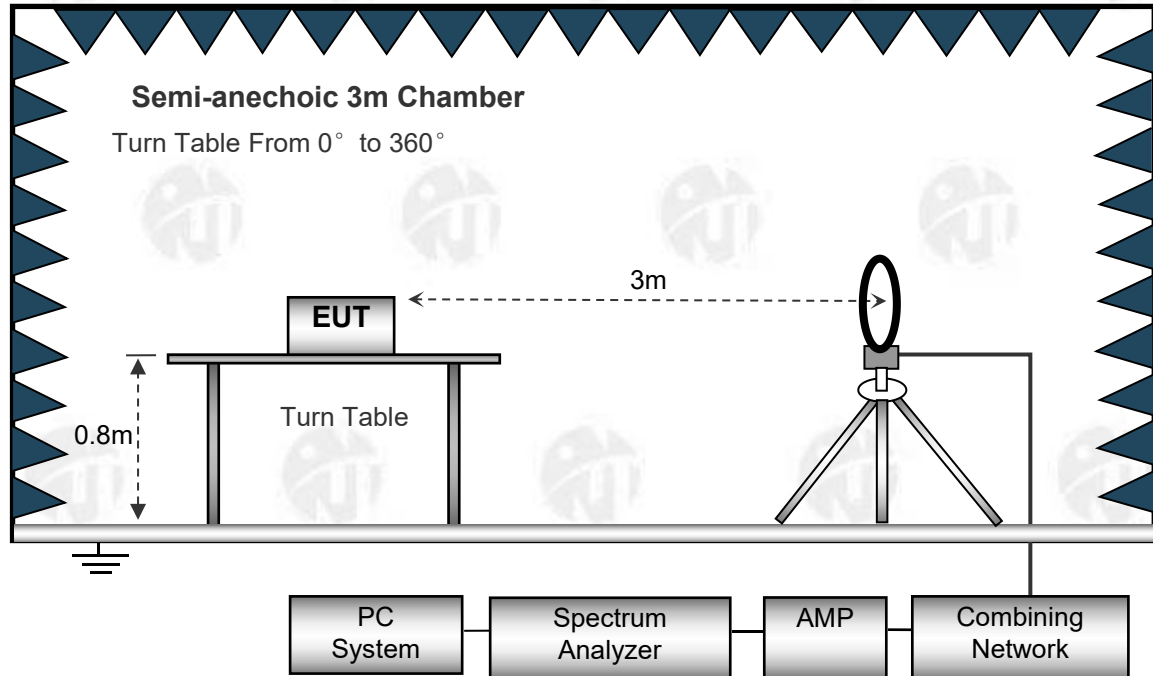
7.1 EUT Operation

Operating Environment :

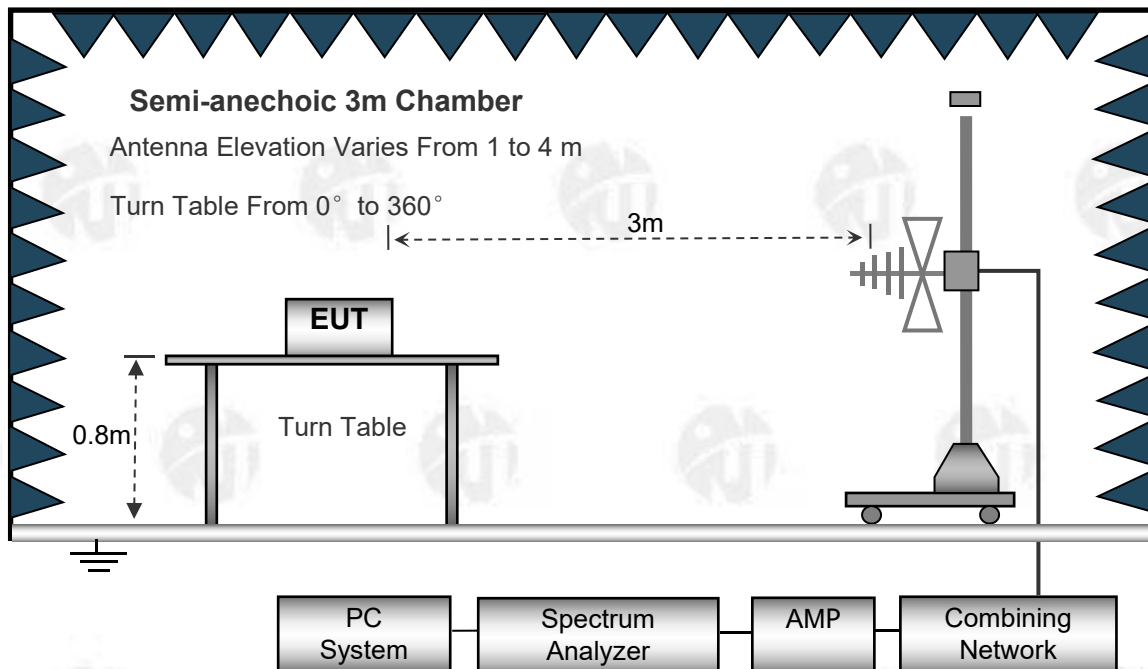
Temperature	: 26 °C
Humidity	: 54% RH
Atmospheric Pressure	: 101.3kPa
Test Voltage	: AC 120V60Hz



7.2 Test Setup

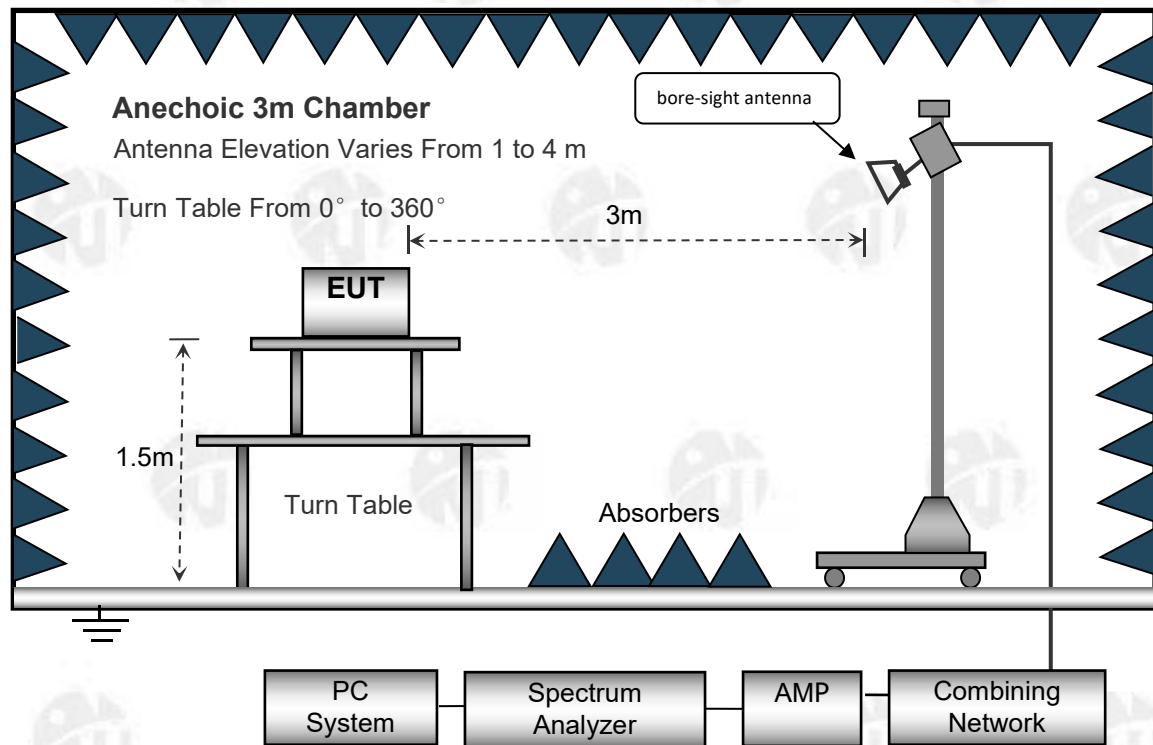
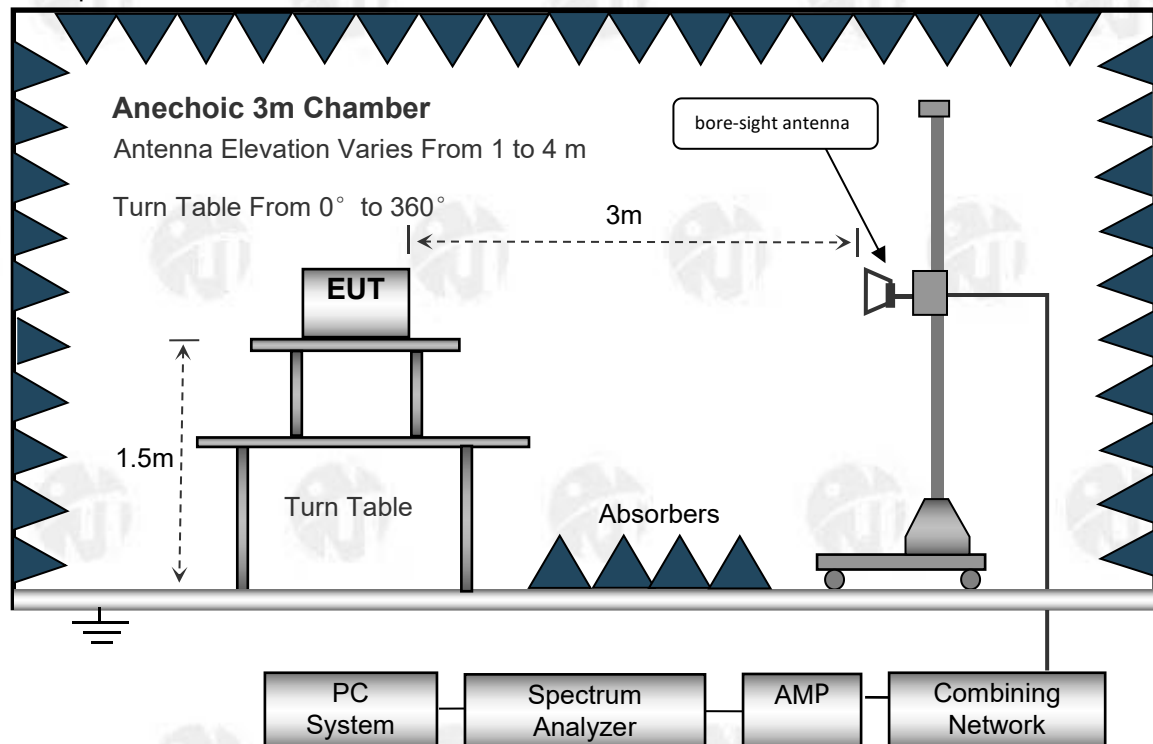


The test setup for emission measurement from 30 MHz to 1 GHz.





The test setup for emission measurement above 1 GHz.





7.3 Spectrum Analyzer Setup

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 3 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



7.4 Test Procedure

1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
2. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane. And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (From 1m to 4m) and turntable (from 0 degree to 360 degree) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Final measurement (Above 1GHz): The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1MHz. The measurement will be performed in horizontal and vertical polarization of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 degree to 360 degree in order to have the antenna inside the cone of radiation.
7. Test Procedure of measurement (For Above 1GHz):
 - 1) Monitor the frequency range at horizontal polarization and move the antenna over all sides of the EUT(if necessary move the EUT to another orthogonal axis).
 - 2) Change the antenna polarization and repeat 1) with vertical polarization.
 - 3) Make a hardcopy of the spectrum.
 - 4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
 - 5) Change the analyser mode to Clear/ Write and found the cone of emission.
 - 6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3m and the antenna will be still inside the cone of emission.
 - 7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarization and azimuth and the peak and average detector, which causes the maximum emission.
 - 8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beamwidth.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.



7.5 Summary of Test Results

Test Frequency: 9KHz-30MHz

Freq. (MHz)	Ant. Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
--	--	--	--	>20

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit 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.

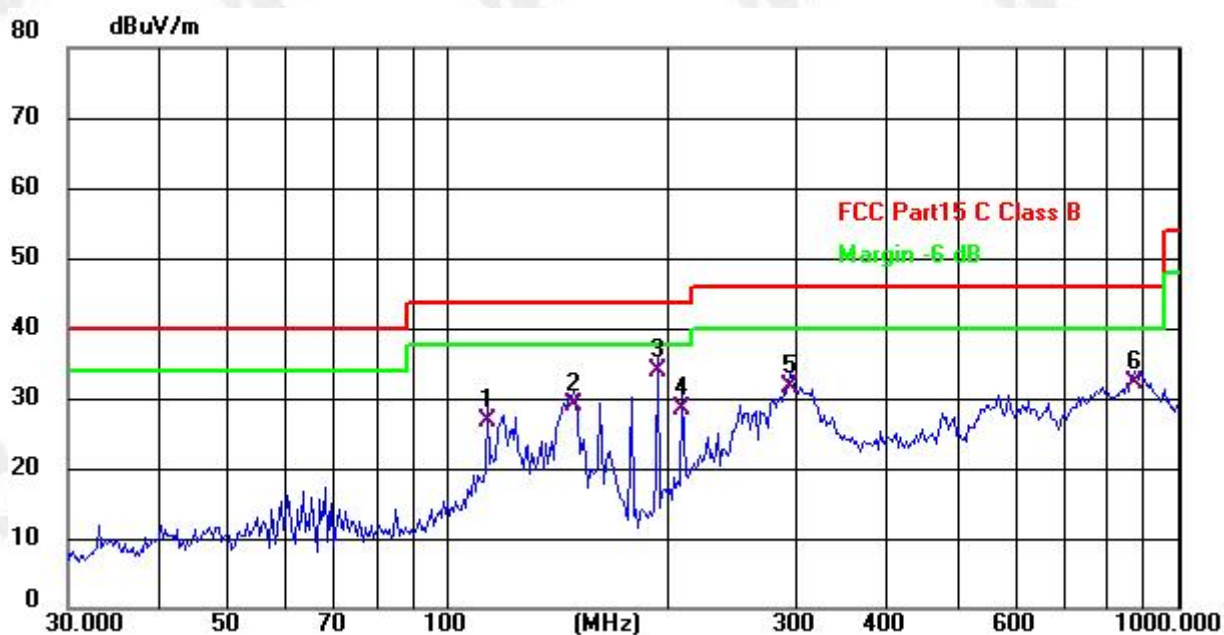
Test Frequency: 30MHz ~ 1GHz

All modes of both antennas were tested, only the worst data showed in the report.



ANT1 test data

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 7.6V		802.11a 5745MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	112.9196	45.18	-18.48	26.70	43.50	-16.80	QP
2	148.4410	45.47	-16.37	29.10	43.50	-14.40	QP
3 *	193.7727	53.14	-19.24	33.90	43.50	-9.60	QP
4	209.3130	47.54	-19.24	28.30	43.50	-15.20	QP
5	293.0842	48.19	-16.59	31.60	46.00	-14.40	QP
6	875.2470	36.12	-4.02	32.10	46.00	-13.90	QP

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

Margin= Emission Level - Limit



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 7.6V	Mode:	802.11a 5745MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	58.8185	39.03	-17.73	21.30	40.00	-18.70	QP
2	118.6013	43.62	-17.92	25.70	43.50	-17.80	QP
3 *	145.3505	46.32	-16.52	29.80	43.50	-13.70	QP
4	164.9074	34.58	-16.48	18.10	43.50	-25.40	QP
5	209.3130	36.74	-19.24	17.50	43.50	-26.00	QP
6	535.7073	39.87	-10.77	29.10	46.00	-16.90	QP

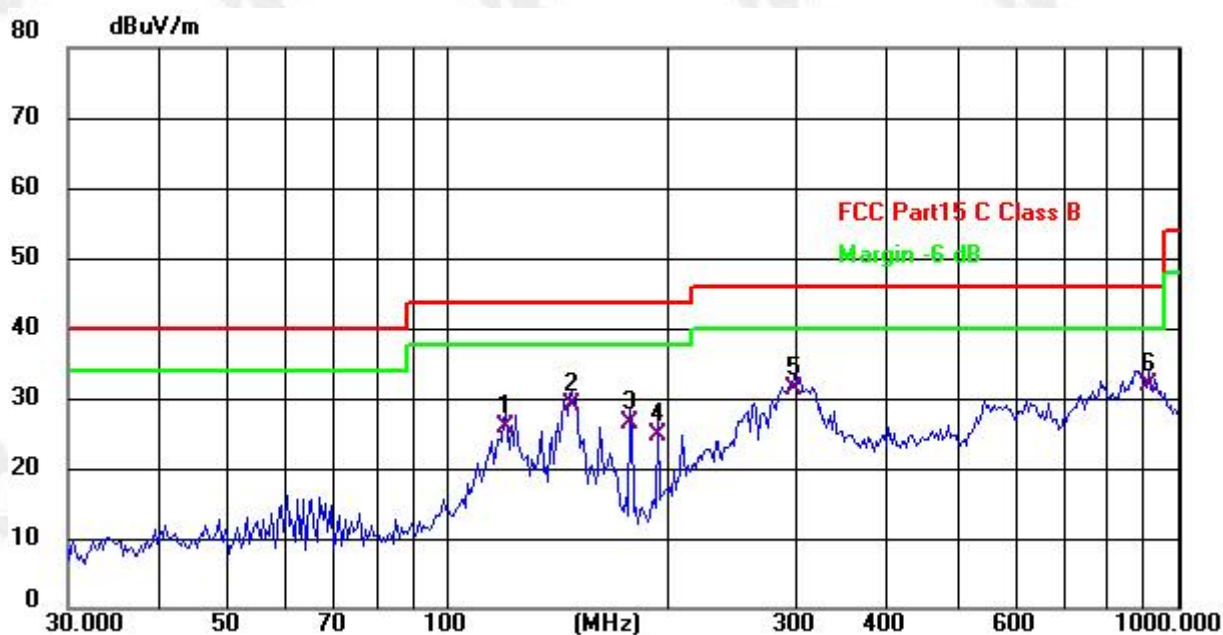
Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

Margin= Emission Level - Limit



ANT2 test data

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 7.6V		802.11a 5745MHz



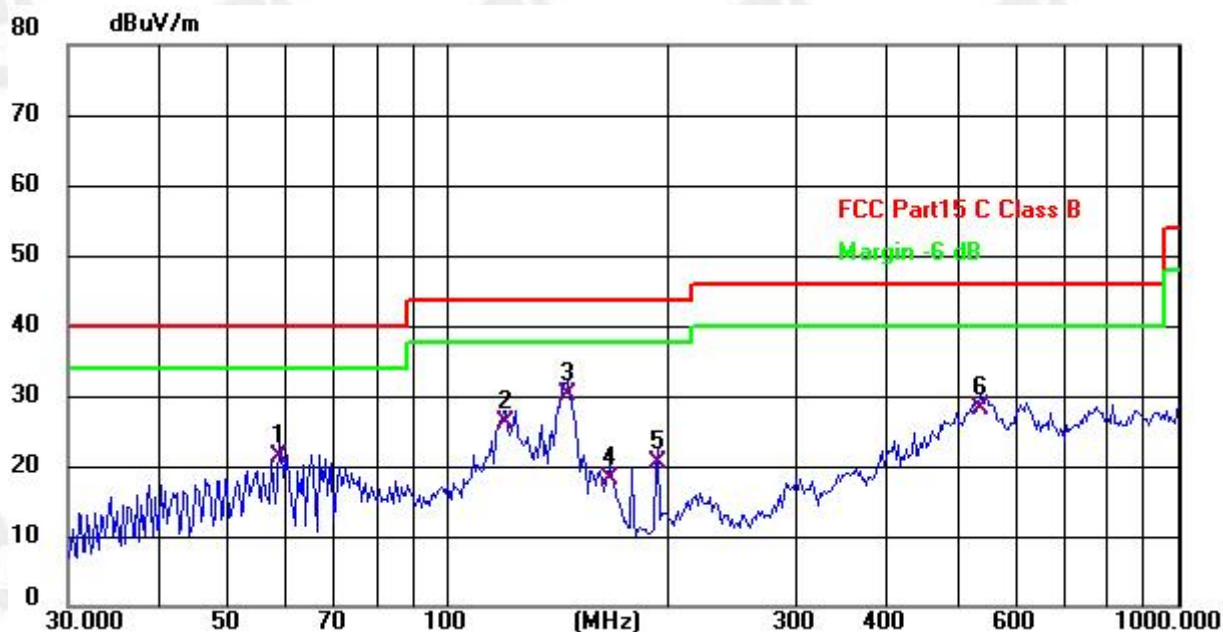
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	119.4360	43.64	-17.84	25.80	43.50	-17.70	QP
2	147.4036	45.52	-16.42	29.10	43.50	-14.40	QP
3	176.8878	44.59	-18.19	26.40	43.50	-17.10	QP
4	193.7727	43.94	-19.24	24.70	43.50	-18.80	QP
5	297.2240	47.67	-16.47	31.20	46.00	-14.80	QP
6 *	912.8620	35.31	-3.51	31.80	46.00	-14.20	QP

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

Margin = Emission Level - Limit



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 7.6V		802.11a 5745MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	58.4074	38.90	-17.70	21.20	40.00	-18.80	QP
2	119.4360	43.94	-17.84	26.10	43.50	-17.40	QP
3 *	145.3505	46.62	-16.52	30.10	43.50	-13.40	QP
4	166.0680	34.74	-16.64	18.10	43.50	-25.40	QP
5	193.7727	39.74	-19.24	20.50	43.50	-23.00	QP
6	535.7073	38.87	-10.77	28.10	46.00	-17.90	QP

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

Margin = Emission Level - Limit



Test Frequency 1GHz-40GHz

All modes of both antennas were tested, only the worst data showed in the report, the worst mode is 802.11a.

ANT1 test data

U-NII-1

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
802.11a Low Channel:5180MHz									
V	10360	44.25	32.70	7.72	38.59	57.86	74	-16.14	PK
V	10360	25.77	32.70	7.72	38.59	39.38	54	-14.62	AV
V	15540	45.34	31.74	9.44	39.29	62.33	74	-11.67	PK
V	15540	19.13	31.74	9.44	39.29	36.12	54	-17.88	AV
V	20720	41.09	26.93	6.64	37.94	58.74	74	-15.26	PK
V	20720	16.66	26.93	6.64	37.94	34.31	54	-19.69	AV
V	25900	39.04	27.10	7.90	39.32	59.16	74	-14.84	PK
V	25900	18.1	27.10	7.90	39.32	38.22	54	-15.78	AV
H	10360	39.24	32.70	7.72	38.59	52.85	74	-21.15	PK
H	10360	25.01	32.70	7.72	38.59	38.62	54	-15.38	AV
H	15540	35.17	31.74	9.44	39.29	52.16	74	-21.84	PK
H	15540	20.9	31.74	9.44	39.29	37.89	54	-16.11	AV
H	20720	37.87	26.93	6.64	37.94	55.52	74	-18.48	PK
H	20720	15.3	26.93	6.64	37.94	32.95	54	-21.05	AV
H	25900	39.86	27.10	7.90	39.32	59.98	74	-14.02	PK
H	25900	17.82	27.10	7.90	39.32	37.94	54	-16.06	AV



Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detecto r Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a Middle Channel:5200MHz									
V	10400	41.54	32.69	7.73	38.62	55.2	74	-18.8	PK
V	10400	21.36	32.69	7.73	38.62	35.02	54	-18.98	AV
V	15600	38.67	31.72	9.45	39.28	55.68	74	-18.32	PK
V	15600	19.73	31.72	9.45	39.28	36.74	54	-17.26	AV
V	20800	40.09	26.93	6.73	37.96	57.85	74	-16.15	PK
V	20800	16.83	26.93	6.73	37.96	34.59	54	-19.41	AV
V	26000	37.97	27.10	7.94	39.30	58.11	74	-15.89	PK
V	26000	16.2	27.10	7.94	39.30	36.34	54	-17.66	AV
H	10400	40.83	32.69	7.73	38.62	54.49	74	-19.51	PK
H	10400	25.11	32.69	7.73	38.62	38.77	54	-15.23	AV
H	15600	40.99	31.72	9.45	39.28	58	74	-16	PK
H	15600	16.94	31.72	9.45	39.28	33.95	54	-20.05	AV
H	20800	38.4	26.93	6.73	37.96	56.16	74	-17.84	PK
H	20800	21.05	26.93	6.73	37.96	38.81	54	-15.19	AV
H	26000	37.76	27.10	7.94	39.30	57.9	74	-16.1	PK
H	26000	16.62	27.10	7.94	39.30	36.76	54	-17.24	AV



Polar	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a High Channel:5240MHz									
V	10480	43.78	32.66	7.74	38.68	57.54	74	-16.46	PK
V	10480	22.9	32.66	7.74	38.68	36.66	54	-17.34	AV
V	15720	40.82	31.68	9.48	39.26	57.88	74	-16.12	PK
V	15720	16.7	31.68	9.48	39.26	33.76	54	-20.24	AV
V	20960	40.28	26.94	6.91	37.99	58.24	74	-15.76	PK
V	20960	21.03	26.94	6.91	37.99	38.99	54	-15.01	AV
V	26200	36.72	27.10	7.89	39.50	57.01	74	-16.99	PK
V	26200	18.37	27.10	7.89	39.50	38.66	54	-15.34	AV
H	10480	42.02	32.66	7.74	38.68	55.78	74	-18.22	PK
H	10480	20.94	32.66	7.74	38.68	34.7	54	-19.3	AV
H	15720	38.49	31.68	9.48	39.26	55.55	74	-18.45	PK
H	15720	20.1	31.68	9.48	39.26	37.16	54	-16.84	AV
H	20960	40.07	26.94	6.91	37.99	58.03	74	-15.97	PK
H	20960	21.16	26.94	6.91	37.99	39.12	54	-14.88	AV
H	26200	35.01	27.10	7.89	39.50	55.3	74	-18.7	PK
H	26200	18.25	27.10	7.89	39.50	38.54	54	-15.46	AV



U-NII-3

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
802.11a Low Channel:5745MHz									
V	11490	44.63	32.29	8.39	38.90	59.63	74.00	-14.37	PK
V	11490	28.85	32.29	8.39	38.90	43.85	54.00	-10.15	AV
V	17235	42.84	31.19	9.62	40.37	61.64	74.00	-12.36	PK
V	17235	23.62	31.19	9.62	40.37	42.42	54.00	-11.58	AV
V	22980	42.69	27.02	7.20	38.98	61.85	74.00	-12.15	PK
V	22980	20.72	27.02	7.20	38.98	39.88	54.00	-14.12	AV
V	28725	39.03	27.10	7.56	40.18	59.67	74.00	-14.33	PK
V	28725	18.46	27.10	7.56	40.18	39.10	54.00	-14.90	AV
H	11490	46.51	32.29	8.39	38.90	61.51	74.00	-12.49	PK
H	11490	27.12	32.29	8.39	38.90	42.12	54.00	-11.88	AV
H	17235	40.92	31.19	9.62	40.37	59.72	74.00	-14.28	PK
H	17235	23.45	31.19	9.62	40.37	42.25	54.00	-11.75	AV
H	22980	39.89	27.02	7.20	38.98	59.05	74.00	-14.95	PK
H	22980	24.22	27.02	7.20	38.98	43.38	54.00	-10.62	AV
H	28725	42.54	27.10	7.56	40.18	63.18	74.00	-10.82	PK
H	28725	19.98	27.10	7.56	40.18	40.62	54.00	-13.38	AV



Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a Middle Channel:5785MHz									
V	11570	42.56	32.26	8.48	38.90	57.68	74.00	-16.32	PK
V	11570	24.49	32.26	8.48	38.90	39.61	54.00	-14.39	AV
V	17355	39.13	31.08	9.67	40.61	58.33	74.00	-15.67	PK
V	17355	18.14	31.08	9.67	40.61	37.34	54.00	-16.66	AV
V	23140	38.19	27.03	7.24	39.03	57.43	74.00	-16.57	PK
V	23140	21.54	27.03	7.24	39.03	40.78	54.00	-13.22	AV
V	28925	36.49	27.10	7.58	40.34	57.31	74.00	-16.69	PK
V	28925	17.63	27.10	7.58	40.34	38.45	54.00	-15.55	AV
H	11570	45.15	32.26	8.48	38.90	60.27	74.00	-13.73	PK
H	11570	21.03	32.26	8.48	38.90	36.15	54.00	-17.85	AV
H	17355	36.83	31.08	9.67	40.61	56.03	74.00	-17.97	PK
H	17355	20.67	31.08	9.67	40.61	39.87	54.00	-14.13	AV
H	23140	36.44	27.03	7.24	39.03	55.68	74.00	-18.32	PK
H	23140	21.61	27.03	7.24	39.03	40.85	54.00	-13.15	AV
H	28925	37.59	27.10	7.58	40.34	58.41	74.00	-15.59	PK
H	28925	18.19	27.10	7.58	40.34	39.01	54.00	-14.99	AV



Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a High Channel:5825MHz									
V	11650	43.14	32.23	8.56	38.90	58.37	74.00	-15.63	PK
V	11650	27.07	32.23	8.56	38.90	42.30	54.00	-11.70	AV
V	17475	40.97	30.97	9.73	40.85	60.58	74.00	-13.42	PK
V	17475	26.94	30.97	9.73	40.85	46.55	54.00	-7.45	AV
V	23300	39.02	27.03	7.26	39.06	58.31	74.00	-15.69	PK
V	23300	25.16	27.03	7.26	39.06	44.45	54.00	-9.55	AV
V	29125	38.44	27.10	7.61	40.40	59.35	74.00	-14.65	PK
V	29125	22.84	27.10	7.61	40.40	43.75	54.00	-10.25	AV
H	11650	44.08	32.23	8.56	38.90	59.31	74.00	-14.69	PK
H	11650	26.86	32.23	8.56	38.90	42.09	54.00	-11.91	AV
H	17475	39.65	30.97	9.73	40.85	59.26	74.00	-14.74	PK
H	17475	24.21	30.97	9.73	40.85	43.82	54.00	-10.18	AV
H	23300	42.34	27.03	7.26	39.06	61.63	74.00	-12.37	PK
H	23300	23.48	27.03	7.26	39.06	42.77	54.00	-11.23	AV
H	29125	35.24	27.10	7.61	40.40	56.15	74.00	-17.85	PK
H	29125	19.95	27.10	7.61	40.40	40.86	54.00	-13.14	AV



ANT2 test data

U-NII-1

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
802.11a Low Channel:5180MHz									
V	10360	44.32	32.70	7.72	38.59	57.93	74	-16.07	PK
V	10360	21.5	32.70	7.72	38.59	35.11	54	-18.89	AV
V	15540	44.23	31.74	9.44	39.29	61.22	74	-12.78	PK
V	15540	20.01	31.74	9.44	39.29	37	54	-17	AV
V	20720	38.25	26.93	6.64	37.94	55.9	74	-18.1	PK
V	20720	14.26	26.93	6.64	37.94	31.91	54	-22.09	AV
V	25900	37.57	27.10	7.90	39.32	57.69	74	-16.31	PK
V	25900	16.67	27.10	7.90	39.32	36.79	54	-17.21	AV
H	10360	40.7	32.70	7.72	38.59	54.31	74	-19.69	PK
H	10360	23.67	32.70	7.72	38.59	37.28	54	-16.72	AV
H	15540	37.16	31.74	9.44	39.29	54.15	74	-19.85	PK
H	15540	20.96	31.74	9.44	39.29	37.95	54	-16.05	AV
H	20720	41.04	26.93	6.64	37.94	58.69	74	-15.31	PK
H	20720	17.04	26.93	6.64	37.94	34.69	54	-19.31	AV
H	25900	39.03	27.10	7.90	39.32	59.15	74	-14.85	PK
H	25900	22.12	27.10	7.90	39.32	42.24	54	-11.76	AV



Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detecto r Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a Middle Channel:5200MHz									
V	10400	40.81	32.69	7.73	38.62	54.47	74	-19.53	PK
V	10400	22.42	32.69	7.73	38.62	36.08	54	-17.92	AV
V	15600	40.08	31.72	9.45	39.28	57.09	74	-16.91	PK
V	15600	21.41	31.72	9.45	39.28	38.42	54	-15.58	AV
V	20800	38.78	26.93	6.73	37.96	56.54	74	-17.46	PK
V	20800	17.44	26.93	6.73	37.96	35.2	54	-18.8	AV
V	26000	37.33	27.10	7.94	39.30	57.47	74	-16.53	PK
V	26000	14.88	27.10	7.94	39.30	35.02	54	-18.98	AV
H	10400	42.64	32.69	7.73	38.62	56.3	74	-17.7	PK
H	10400	23.76	32.69	7.73	38.62	37.42	54	-16.58	AV
H	15600	37.58	31.72	9.45	39.28	54.59	74	-19.41	PK
H	15600	18.58	31.72	9.45	39.28	35.59	54	-18.41	AV
H	20800	41.07	26.93	6.73	37.96	58.83	74	-15.17	PK
H	20800	19.87	26.93	6.73	37.96	37.63	54	-16.37	AV
H	26000	37.24	27.10	7.94	39.30	57.38	74	-16.62	PK
H	26000	15.81	27.10	7.94	39.30	35.95	54	-18.05	AV



Polar	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a High Channel:5240MHz									
V	10480	41.33	32.66	7.74	38.68	55.09	74	-18.91	PK
V	10480	25.19	32.66	7.74	38.68	38.95	54	-15.05	AV
V	15720	38.12	31.68	9.48	39.26	55.18	74	-18.82	PK
V	15720	17.49	31.68	9.48	39.26	34.55	54	-19.45	AV
V	20960	36.85	26.94	6.91	37.99	54.81	74	-19.19	PK
V	20960	19.9	26.94	6.91	37.99	37.86	54	-16.14	AV
V	26200	37.64	27.10	7.89	39.50	57.93	74	-16.07	PK
V	26200	13.97	27.10	7.89	39.50	34.26	54	-19.74	AV
H	10480	44.95	32.66	7.74	38.68	58.71	74	-15.29	PK
H	10480	21.53	32.66	7.74	38.68	35.29	54	-18.71	AV
H	15720	39.91	31.68	9.48	39.26	56.97	74	-17.03	PK
H	15720	21.4	31.68	9.48	39.26	38.46	54	-15.54	AV
H	20960	38.31	26.94	6.91	37.99	56.27	74	-17.73	PK
H	20960	17.15	26.94	6.91	37.99	35.11	54	-18.89	AV
H	26200	37	27.10	7.89	39.50	57.29	74	-16.71	PK
H	26200	17.54	27.10	7.89	39.50	37.83	54	-16.17	AV



U-NII-3

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
802.11a Low Channel:5745MHz									
V	11490	45.85	32.29	8.39	38.90	60.85	74.00	-13.15	PK
V	11490	29.14	32.29	8.39	38.90	44.14	54.00	-9.86	AV
V	17235	43.78	31.19	9.62	40.37	62.58	74.00	-11.42	PK
V	17235	23.91	31.19	9.62	40.37	42.71	54.00	-11.29	AV
V	22980	43.9	27.02	7.20	38.98	63.06	74.00	-10.94	PK
V	22980	23.68	27.02	7.20	38.98	42.84	54.00	-11.16	AV
V	28725	42.06	27.10	7.56	40.18	62.70	74.00	-11.30	PK
V	28725	22.3	27.10	7.56	40.18	42.94	54.00	-11.06	AV
H	11490	44.89	32.29	8.39	38.90	59.89	74.00	-14.11	PK
H	11490	29.6	32.29	8.39	38.90	44.60	54.00	-9.40	AV
H	17235	42.78	31.19	9.62	40.37	61.58	74.00	-12.42	PK
H	17235	24.68	31.19	9.62	40.37	43.48	54.00	-10.52	AV
H	22980	41.92	27.02	7.20	38.98	61.08	74.00	-12.92	PK
H	22980	23.65	27.02	7.20	38.98	42.81	54.00	-11.19	AV
H	28725	40.78	27.10	7.56	40.18	61.42	74.00	-12.58	PK
H	28725	20.42	27.10	7.56	40.18	41.06	54.00	-12.94	AV



Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a Middle Channel:5785MHz									
V	11570	41.87	32.26	8.48	38.90	56.99	74.00	-17.01	PK
V	11570	22.39	32.26	8.48	38.90	37.51	54.00	-16.49	AV
V	17355	40.87	31.08	9.67	40.61	60.07	74.00	-13.93	PK
V	17355	20.12	31.08	9.67	40.61	39.32	54.00	-14.68	AV
V	23140	36.77	27.03	7.24	39.03	56.01	74.00	-17.99	PK
V	23140	17.89	27.03	7.24	39.03	37.13	54.00	-16.87	AV
V	28925	39.31	27.10	7.58	40.34	60.13	74.00	-13.87	PK
V	28925	18.61	27.10	7.58	40.34	39.43	54.00	-14.57	AV
H	11570	45.18	32.26	8.48	38.90	60.30	74.00	-13.70	PK
H	11570	24.13	32.26	8.48	38.90	39.25	54.00	-14.75	AV
H	17355	38.14	31.08	9.67	40.61	57.34	74.00	-16.66	PK
H	17355	20.92	31.08	9.67	40.61	40.12	54.00	-13.88	AV
H	23140	39.33	27.03	7.24	39.03	58.57	74.00	-15.43	PK
H	23140	17.01	27.03	7.24	39.03	36.25	54.00	-17.75	AV
H	28925	37.06	27.10	7.58	40.34	57.88	74.00	-16.12	PK
H	28925	18.57	27.10	7.58	40.34	39.39	54.00	-14.61	AV



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
802.11a High Channel:5825MHz									
V	11650	45.9	32.23	8.56	38.90	61.13	74.00	-12.87	PK
V	11650	30.16	32.23	8.56	38.90	45.39	54.00	-8.61	AV
V	17475	45.49	30.97	9.73	40.85	65.10	74.00	-8.90	PK
V	17475	26.76	30.97	9.73	40.85	46.37	54.00	-7.63	AV
V	23300	36.69	27.03	7.26	39.06	55.98	74.00	-18.02	PK
V	23300	23.48	27.03	7.26	39.06	42.77	54.00	-11.23	AV
V	29125	37.67	27.10	7.61	40.40	58.58	74.00	-15.42	PK
V	29125	20.59	27.10	7.61	40.40	41.50	54.00	-12.50	AV
H	11650	46.59	32.23	8.56	38.90	61.82	74.00	-12.18	PK
H	11650	25.67	32.23	8.56	38.90	40.90	54.00	-13.10	AV
H	17475	41.97	30.97	9.73	40.85	61.58	74.00	-12.42	PK
H	17475	25.62	30.97	9.73	40.85	45.23	54.00	-8.77	AV
H	23300	42.16	27.03	7.26	39.06	61.45	74.00	-12.55	PK
H	23300	20.99	27.03	7.26	39.06	40.28	54.00	-13.72	AV
H	29125	35.93	27.10	7.61	40.40	56.84	74.00	-17.16	PK
H	29125	21.55	27.10	7.61	40.40	42.46	54.00	-11.54	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss - Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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

The 1-40GHz range has been tested, and the report only records the worst performance of the 1-30G range.



Restrict Band EMISSION MEASUREMENT

ANT1 test data

U-NII-1

Frequency	Meter Reading	antenna Factor	cable loss	preamplifier factor	Emission Level	Limit	Margin	Polarization (H/V)	Detector Type	Result
(MHz)	(dBuV/m)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)			
802.11a:5180MHz										
5150	53.08	33.14	5.29	33.88	57.63	74	-16.37	V	PK	Pass
5150	33.79	33.14	5.29	33.88	38.34	54	-15.66	V	AV	Pass
5145	52.91	33.14	5.29	33.88	57.46	74	-16.54	V	PK	Pass
5145	34.53	33.14	5.29	33.88	39.08	54	-14.92	V	AV	Pass
5150	52.52	33.14	5.29	33.88	57.07	74	-16.93	H	PK	Pass
5150	34.31	33.14	5.29	33.88	38.86	54	-15.14	H	AV	Pass
5145	51.97	33.14	5.29	33.88	56.52	74	-17.48	H	PK	Pass
5145	32.97	33.14	5.29	33.88	37.52	54	-16.48	H	AV	Pass
802.11a:5240MHz										
5350	35.93	33.06	5.44	33.72	40.71	54	-13.29	V	PK	Pass
5350	51.93	33.05	5.45	33.70	56.73	74	-17.27	V	AV	Pass
5370	34.50	33.05	5.45	33.70	39.30	54	-14.70	V	PK	Pass
5370	54.62	33.06	5.44	33.72	59.40	74	-14.60	V	AV	Pass
5350	37.62	33.06	5.44	33.72	42.40	54	-11.60	H	PK	Pass
5350	52.11	33.05	5.45	33.70	56.91	74	-17.09	H	AV	Pass
5370	34.26	33.05	5.45	33.70	39.06	54	-14.94	H	PK	Pass
5370	35.93	33.06	5.44	33.72	40.71	54	-13.29	H	AV	Pass
802.11n20:5180MHz										



5150	52.72	33.14	5.29	33.88	57.27	74	-16.73	V	PK	Pass
5150	35.17	33.14	5.29	33.88	39.72	54	-14.28	V	AV	Pass
5145	52.33	33.14	5.29	33.88	56.88	74	-17.12	V	PK	Pass
5145	34.37	33.14	5.29	33.88	38.92	54	-15.08	V	AV	Pass
5150	52.83	33.14	5.29	33.88	57.38	74	-16.62	H	PK	Pass
5150	36.25	33.14	5.29	33.88	40.80	54	-13.20	H	AV	Pass
5145	52.40	33.14	5.29	33.88	56.95	74	-17.05	H	PK	Pass
5145	34.80	33.14	5.29	33.88	39.35	54	-14.65	H	AV	Pass
802.11n20:5240MHz										
5350	55.12	33.06	5.44	33.72	59.90	74	-14.10	V	PK	Pass
5350	37.94	33.06	5.44	33.72	42.72	54	-11.28	V	AV	Pass
5370	51.97	33.05	5.45	33.70	56.77	74	-17.23	V	PK	Pass
5370	34.31	33.05	5.45	33.70	39.11	54	-14.89	V	AV	Pass
5350	54.04	33.06	5.44	33.72	58.82	74	-15.18	H	PK	Pass
5350	41.39	33.06	5.44	33.72	46.17	54	-7.83	H	AV	Pass
5370	53.60	33.05	5.45	33.70	58.40	74	-15.60	H	PK	Pass
5370	37.04	33.05	5.45	33.70	41.84	54	-12.16	H	AV	Pass
802.11ac20:5180MHz										
5150	52.88	33.14	5.29	33.88	57.43	74	-16.57	V	PK	Pass
5150	35.85	33.14	5.29	33.88	40.40	54	-13.60	V	AV	Pass
5145	52.61	33.14	5.29	33.88	57.16	74	-16.84	V	PK	Pass
5145	36.18	33.14	5.29	33.88	40.73	54	-13.27	V	AV	Pass
5150	53.60	33.14	5.29	33.88	58.15	74	-15.85	H	PK	Pass
5150	36.20	33.14	5.29	33.88	40.75	54	-13.25	H	AV	Pass
5145	52.12	33.14	5.29	33.88	56.67	74	-17.33	H	PK	Pass



5145	36.62	33.14	5.29	33.88	41.17	54	-12.83	H	AV	Pass
802.11ac20:5240MHz										
5350	54.83	33.06	5.44	33.72	59.61	74	-14.39	V	PK	Pass
5350	37.74	33.06	5.44	33.72	42.52	54	-11.48	V	AV	Pass
5370	52.25	33.05	5.45	33.70	57.05	68.2	-11.15	V	PK	Pass
5370	38.05	33.05	5.45	33.70	42.85	54	-11.15	V	AV	Pass
5350	55.29	33.06	5.44	33.72	60.07	74	-13.93	H	PK	Pass
5350	42.08	33.06	5.44	33.72	46.86	54	-7.14	H	AV	Pass
5370	53.94	33.05	5.45	33.70	58.74	68.2	-9.46	H	PK	Pass
5370	37.70	33.05	5.45	33.70	42.50	54	-11.50	H	AV	Pass
802.11n40:5190MHz										
5150	53.79	33.14	5.29	33.88	58.34	74	-15.66	V	PK	Pass
5150	38.11	33.14	5.29	33.88	42.66	54	-11.34	V	AV	Pass
5145	51.45	33.14	5.29	33.88	56.00	74	-18.00	V	PK	Pass
5145	36.99	33.14	5.29	33.88	41.54	54	-12.46	V	AV	Pass
5150	54.63	33.14	5.29	33.88	59.18	74	-14.82	H	PK	Pass
5150	41.74	33.14	5.29	33.88	46.29	54	-7.71	H	AV	Pass
5145	53.03	33.14	5.29	33.88	57.58	74	-16.42	H	PK	Pass
5145	38.70	33.14	5.29	33.88	43.25	54	-10.75	H	AV	Pass
802.11n40:5230MHz										
5350	54.54	33.06	5.44	33.72	59.32	74	-14.68	V	PK	Pass
5350	35.75	33.06	5.44	33.72	40.53	54	-13.47	V	AV	Pass
5370	54.86	33.05	5.45	33.70	59.66	74	-14.34	V	PK	Pass
5370	33.16	33.05	5.45	33.70	37.96	54	-16.04	V	AV	Pass
5350	52.58	33.06	5.44	33.72	57.36	74	-16.64	H	PK	Pass
5350	40.63	33.06	5.44	33.72	45.41	54	-8.59	H	AV	Pass



5370	53.61	33.05	5.45	33.70	58.41	74	-15.59	H	PK	Pass
5370	33.30	33.05	5.45	33.70	38.10	54	-15.90	H	AV	Pass
802.11ac40:5190MHz										
5150	54.99	33.14	5.29	33.88	59.54	74	-14.46	V	PK	Pass
5150	35.85	33.14	5.29	33.88	40.40	54	-13.60	V	AV	Pass
5145	51.79	33.14	5.29	33.88	56.34	74	-17.66	V	PK	Pass
5145	35.08	33.14	5.29	33.88	39.63	54	-14.37	V	AV	Pass
5150	55.62	33.14	5.29	33.88	60.17	74	-13.83	H	PK	Pass
5150	38.03	33.14	5.29	33.88	42.58	54	-11.42	H	AV	Pass
5145	52.43	33.14	5.29	33.88	56.98	74	-17.02	H	PK	Pass
5145	34.44	33.14	5.29	33.88	38.99	54	-15.01	H	AV	Pass
802.11ac40:5230MHz										
5350	52.66	33.06	5.44	33.72	57.44	74	-16.56	V	PK	Pass
5350	35.06	33.06	5.44	33.72	39.84	54	-14.16	V	AV	Pass
5370	52.64	33.05	5.45	33.70	57.44	74	-16.56	V	PK	Pass
5370	34.04	33.05	5.45	33.70	38.84	54	-15.16	V	AV	Pass
5350	54.14	33.06	5.44	33.72	58.92	74	-15.08	H	PK	Pass
5350	36.51	33.06	5.44	33.72	41.29	54	-12.71	H	AV	Pass
5370	52.61	33.05	5.45	33.70	57.41	74	-16.59	H	PK	Pass
5370	35.23	33.05	5.45	33.70	40.03	54	-13.97	H	AV	Pass
802.11ac80:5210MHz										
5150	55.19	33.09	5.36	33.81	59.83	74	-14.17	V	PK	Pass
5150	37.58	33.09	5.36	33.81	42.22	54	-11.78	V	AV	Pass
5145	50.65	33.09	5.36	33.81	55.29	74	-18.71	V	PK	Pass
5145	34.94	33.09	5.36	33.81	39.58	54	-14.42	V	AV	Pass
5150	53.37	33.09	5.36	33.81	58.01	74	-15.99	H	PK	Pass
5150	36.57	33.09	5.36	33.81	41.21	54	-12.79	H	AV	Pass



5145	52.71	33.09	5.36	33.81	57.35	74	-16.65	H	PK	Pass
5145	37.42	33.09	5.36	33.81	42.06	54	-11.94	H	AV	Pass
802.11ac80:5210MHz										
5350	54.22	33.06	5.44	33.72	59.00	74	-15.00	V	PK	Pass
5350	36.79	33.06	5.44	33.72	41.57	54	-12.43	V	AV	Pass
5370	50.46	33.05	5.45	33.70	55.26	74	-18.74	V	PK	Pass
5370	37.02	33.05	5.45	33.70	41.82	54	-12.18	V	AV	Pass
5350	53.97	33.06	5.44	33.72	58.75	74	-15.25	H	PK	Pass
5350	39.47	33.06	5.44	33.72	44.25	54	-9.75	H	AV	Pass
5370	51.71	33.05	5.45	33.70	56.51	74	-17.49	H	PK	Pass
5370	36.06	33.05	5.45	33.70	40.86	54	-13.14	H	AV	Pass



U-NII-3

Frequency	Meter Reading	antenna Factor	cable loss	preamplifier factor	Emission Level	Limit	Margin	Polarization (H/V)	Detector Type	Result
(MHz)	(dB μ V)	(dB)	(dB)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)			
802.11a										
5720.00	50.93	33.33	5.70	33.42	56.54	74	-17.46	V	PK	Pass
5725.00	53.34	33.34	5.70	33.42	58.96	74	-15.04	V	PK	Pass
5850.00	57.44	33.64	5.78	33.32	63.54	74	-10.46	V	PK	Pass
5855.00	50.43	33.64	5.78	33.32	56.53	74	-17.47	V	PK	Pass
5720.00	51.24	33.33	5.70	33.42	56.85	74	-17.15	H	PK	Pass
5725.00	54.12	33.34	5.70	33.42	59.74	74	-14.26	H	PK	Pass
5850.00	49.45	33.64	5.78	33.32	55.55	74	-18.45	H	PK	Pass
5855.00	51.49	33.64	5.78	33.32	57.59	74	-16.41	H	PK	Pass
802.11n20										
5720.00	51.97	33.33	5.70	33.42	57.58	74	-16.42	V	PK	Pass
5725.00	53.59	33.34	5.70	33.42	59.21	74	-14.79	V	PK	Pass
5850.00	51.95	33.64	5.78	33.32	58.05	74	-15.95	V	PK	Pass
5855.00	51.17	33.64	5.78	33.32	57.27	74	-16.73	V	PK	Pass
5720.00	49.76	33.33	5.70	33.42	55.37	74	-18.63	H	PK	Pass
5725.00	50.07	33.34	5.70	33.42	55.69	74	-18.31	H	PK	Pass
5850.00	50.68	33.64	5.78	33.32	56.78	74	-17.22	H	PK	Pass
5855.00	51.46	33.64	5.78	33.32	57.56	74	-16.44	H	PK	Pass
802.11ac20										
5720.00	51.41	33.33	5.70	33.42	57.02	74	-16.98	V	PK	Pass



5725.00	54.05	33.34	5.70	33.42	59.67	74	-14.33	V	PK	Pass
5850.00	59.13	33.64	5.78	33.32	65.23	74	-8.77	V	PK	Pass
5855.00	53.14	33.64	5.78	33.32	59.24	74	-14.76	V	PK	Pass
5720.00	49.32	33.33	5.70	33.42	54.93	74	-19.07	H	PK	Pass
5725.00	52.11	33.34	5.70	33.42	57.73	74	-16.27	H	PK	Pass
5850.00	53.49	33.64	5.78	33.32	59.59	74	-14.41	H	PK	Pass
5855.00	51.11	33.64	5.78	33.32	57.21	74	-16.79	H	PK	Pass
802.11n40										
5720.00	52.56	33.33	5.70	33.42	58.17	74	-15.83	V	PK	Pass
5725.00	56.77	33.34	5.70	33.42	62.39	74	-11.61	V	PK	Pass
5850.00	59.46	33.64	5.78	33.32	65.56	74	-8.44	V	PK	Pass
5855.00	51.79	33.64	5.78	33.32	57.89	74	-16.11	V	PK	Pass
5720.00	49.35	33.33	5.70	33.42	54.96	74	-19.04	H	PK	Pass
5725.00	52.58	33.34	5.70	33.42	58.20	74	-15.8	H	PK	Pass
5850.00	53.39	33.64	5.78	33.32	59.49	74	-14.51	H	PK	Pass
5855.00	50.26	33.64	5.78	33.32	56.36	74	-17.64	H	PK	Pass
802.11ac40										
5720.00	51.66	33.33	5.70	33.42	57.27	74	-16.73	V	PK	Pass
5725.00	58.77	33.34	5.70	33.42	64.39	74	-9.61	V	PK	Pass
5850.00	58.96	33.64	5.78	33.32	65.06	74	-8.94	V	PK	Pass
5855.00	53.29	33.64	5.78	33.32	59.39	74	-14.61	V	PK	Pass
5720.00	50.95	33.33	5.70	33.42	56.56	74	-17.44	H	PK	Pass
5725.00	49.08	33.34	5.70	33.42	54.70	74	-19.3	H	PK	Pass
5850.00	51.79	33.64	5.78	33.32	57.89	74	-16.11	H	PK	Pass
5855.00	49.16	33.64	5.78	33.32	55.26	74	-18.74	H	PK	Pass



802.11ac80										
5720.00	50.96	33.33	5.70	33.42	56.57	74	-17.43	V	PK	Pass
5725.00	57.67	33.34	5.70	33.42	63.29	74	-10.71	V	PK	Pass
5850.00	55.16	33.64	5.78	33.32	61.26	74	-12.74	V	PK	Pass
5855.00	53.79	33.64	5.78	33.32	59.89	74	-14.11	V	PK	Pass
5720.00	48.55	33.33	5.70	33.42	54.16	74	-19.84	H	PK	Pass
5725.00	52.18	33.34	5.70	33.42	57.80	74	-16.2	H	PK	Pass
5850.00	49.59	33.64	5.78	33.32	55.69	74	-18.31	H	PK	Pass
5855.00	49.66	33.64	5.78	33.32	55.76	74	-18.24	H	PK	Pass



ANT2 test data

U-NII-1

Frequency	Meter Reading	antenna Factor	cable loss	preamplifier factor	Emission Level	Limit	Margin	Polarization (H/V)	Detector Type	Result
(MHz)	(dBuV/m)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)			
802.11a:5180MHz										
5150	52.89	33.14	5.29	33.88	57.44	74	-16.56	V	PK	Pass
5150	33.20	33.14	5.29	33.88	37.75	54	-16.25	V	AV	Pass
5145	52.70	33.14	5.29	33.88	57.25	74	-16.75	V	PK	Pass
5145	34.06	33.14	5.29	33.88	38.61	54	-15.39	V	AV	Pass
5150	52.55	33.14	5.29	33.88	57.10	74	-16.90	H	PK	Pass
5150	34.70	33.14	5.29	33.88	39.25	54	-14.75	H	AV	Pass
5145	50.82	33.14	5.29	33.88	55.37	74	-18.63	H	PK	Pass
5145	34.06	33.14	5.29	33.88	38.61	54	-15.39	H	AV	Pass
802.11a:5240MHz										
5350	55.09	33.06	5.44	33.72	59.87	74	-14.13	V	PK	Pass
5350	34.98	33.06	5.44	33.72	39.76	54	-14.24	V	AV	Pass
5370	50.65	33.05	5.45	33.70	55.45	74	-18.55	V	PK	Pass
5370	33.62	33.05	5.45	33.70	38.42	54	-15.58	V	AV	Pass
5350	56.10	33.06	5.44	33.72	60.88	74	-13.12	H	PK	Pass
5350	37.90	33.06	5.44	33.72	42.68	54	-11.32	H	AV	Pass
5370	52.07	33.05	5.45	33.70	56.87	74	-17.13	H	PK	Pass
5370	34.68	33.05	5.45	33.70	39.48	54	-14.52	H	AV	Pass
802.11n20:5180MHz										
5150	52.83	33.14	5.29	33.88	57.38	74	-16.62	V	PK	Pass
5150	35.84	33.14	5.29	33.88	40.39	54	-13.61	V	AV	Pass



5145	52.69	33.14	5.29	33.88	57.24	74	-16.76	V	PK	Pass
5145	33.85	33.14	5.29	33.88	38.40	54	-15.60	V	AV	Pass
5150	53.04	33.14	5.29	33.88	57.59	74	-16.41	H	PK	Pass
5150	35.36	33.14	5.29	33.88	39.91	54	-14.09	H	AV	Pass
5145	52.53	33.14	5.29	33.88	57.08	74	-16.92	H	PK	Pass
5145	34.76	33.14	5.29	33.88	39.31	54	-14.69	H	AV	Pass
802.11n20:5240MHz										
5350	55.46	33.06	5.44	33.72	60.24	74	-13.76	V	PK	Pass
5350	37.93	33.06	5.44	33.72	42.71	54	-11.29	V	AV	Pass
5370	50.28	33.05	5.45	33.70	55.08	74	-18.92	V	PK	Pass
5370	33.86	33.05	5.45	33.70	38.66	54	-15.34	V	AV	Pass
5350	54.34	33.06	5.44	33.72	59.12	74	-14.88	H	PK	Pass
5350	40.66	33.06	5.44	33.72	45.44	54	-8.56	H	AV	Pass
5370	52.43	33.05	5.45	33.70	57.23	74	-16.77	H	PK	Pass
5370	37.29	33.05	5.45	33.70	42.09	54	-11.91	H	AV	Pass
802.11ac20:5180MHz										
5150	53.16	33.14	5.29	33.88	57.71	74	-16.29	V	PK	Pass
5150	36.71	33.14	5.29	33.88	41.26	54	-12.74	V	AV	Pass
5145	52.36	33.14	5.29	33.88	56.91	74	-17.09	V	PK	Pass
5145	34.94	33.14	5.29	33.88	39.49	54	-14.51	V	AV	Pass
5150	53.82	33.14	5.29	33.88	58.37	74	-15.63	H	PK	Pass
5150	35.82	33.14	5.29	33.88	40.37	54	-13.63	H	AV	Pass
5145	50.34	33.14	5.29	33.88	54.89	74	-19.11	H	PK	Pass
5145	36.31	33.14	5.29	33.88	40.86	54	-13.14	H	AV	Pass
802.11ac20:5240MHz										
5350	53.82	33.06	5.44	33.72	58.60	74	-15.40	V	PK	Pass



5350	38.38	33.06	5.44	33.72	43.16	54	-10.84	V	AV	Pass
5370	52.26	33.05	5.45	33.70	57.06	68.2	-11.14	V	PK	Pass
5370	38.12	33.05	5.45	33.70	42.92	54	-11.08	V	AV	Pass
5350	56.00	33.06	5.44	33.72	60.78	74	-13.22	H	PK	Pass
5350	42.15	33.06	5.44	33.72	46.93	54	-7.07	H	AV	Pass
5370	53.70	33.05	5.45	33.70	58.50	68.2	-9.70	H	PK	Pass
5370	38.64	33.05	5.45	33.70	43.44	54	-10.56	H	AV	Pass
802.11n40:5190MHz										
5150	55.15	33.14	5.29	33.88	59.70	74	-14.30	V	PK	Pass
5150	38.74	33.14	5.29	33.88	43.29	54	-10.71	V	AV	Pass
5145	52.11	33.14	5.29	33.88	56.66	74	-17.34	V	PK	Pass
5145	37.40	33.14	5.29	33.88	41.95	54	-12.05	V	AV	Pass
5150	55.50	33.14	5.29	33.88	60.05	74	-13.95	H	PK	Pass
5150	41.39	33.14	5.29	33.88	45.94	54	-8.06	H	AV	Pass
5145	53.05	33.14	5.29	33.88	57.60	74	-16.40	H	PK	Pass
5145	38.22	33.14	5.29	33.88	42.77	54	-11.23	H	AV	Pass
802.11n40:5230MHz										
5350	54.77	33.06	5.44	33.72	59.55	74	-14.45	V	PK	Pass
5350	36.30	33.06	5.44	33.72	41.08	54	-12.92	V	AV	Pass
5370	54.86	33.05	5.45	33.70	59.66	74	-14.34	V	PK	Pass
5370	32.80	33.05	5.45	33.70	37.60	54	-16.40	V	AV	Pass
5350	53.73	33.06	5.44	33.72	58.51	74	-15.49	H	PK	Pass
5350	41.03	33.06	5.44	33.72	45.81	54	-8.19	H	AV	Pass
5370	53.56	33.05	5.45	33.70	58.36	74	-15.64	H	PK	Pass
5370	33.66	33.05	5.45	33.70	38.46	54	-15.54	H	AV	Pass
802.11ac40:5190MHz										



5150	55.16	33.14	5.29	33.88	59.71	74	-14.29	V	PK	Pass
5150	34.47	33.14	5.29	33.88	39.02	54	-14.98	V	AV	Pass
5145	50.75	33.14	5.29	33.88	55.30	74	-18.70	V	PK	Pass
5145	34.34	33.14	5.29	33.88	38.89	54	-15.11	V	AV	Pass
5150	55.70	33.14	5.29	33.88	60.25	74	-13.75	H	PK	Pass
5150	38.08	33.14	5.29	33.88	42.63	54	-11.37	H	AV	Pass
5145	51.88	33.14	5.29	33.88	56.43	74	-17.57	H	PK	Pass
5145	33.75	33.14	5.29	33.88	38.30	54	-15.70	H	AV	Pass
802.11ac40:5230MHz										
5350	52.81	33.06	5.44	33.72	57.59	74	-16.41	V	PK	Pass
5350	35.09	33.06	5.44	33.72	39.87	54	-14.13	V	AV	Pass
5370	52.03	33.05	5.45	33.70	56.83	74	-17.17	V	PK	Pass
5370	35.02	33.05	5.45	33.70	39.82	54	-14.18	V	AV	Pass
5350	52.66	33.06	5.44	33.72	57.44	74	-16.56	H	PK	Pass
5350	35.84	33.06	5.44	33.72	40.62	54	-13.38	H	AV	Pass
5370	52.30	33.05	5.45	33.70	57.10	74	-16.90	H	PK	Pass
5370	34.38	33.05	5.45	33.70	39.18	54	-14.82	H	AV	Pass
802.11ac80:5210MHz										
5150	53.88	33.09	5.36	33.81	58.52	74	-15.48	V	PK	Pass
5150	37.06	33.09	5.36	33.81	41.70	54	-12.30	V	AV	Pass
5145	50.72	33.09	5.36	33.81	55.36	74	-18.64	V	PK	Pass
5145	35.28	33.09	5.36	33.81	39.92	54	-14.08	V	AV	Pass
5150	55.07	33.09	5.36	33.81	59.71	74	-14.29	H	PK	Pass
5150	37.17	33.09	5.36	33.81	41.81	54	-12.19	H	AV	Pass
5145	52.84	33.09	5.36	33.81	57.48	74	-16.52	H	PK	Pass
5145	36.12	33.09	5.36	33.81	40.76	54	-13.24	H	AV	Pass
802.11ac80:5210MHz										



5350	53.21	33.06	5.44	33.72	57.99	74	-16.01	V	PK	Pass
5350	37.75	33.06	5.44	33.72	42.53	54	-11.47	V	AV	Pass
5370	49.68	33.05	5.45	33.70	54.48	74	-19.52	V	PK	Pass
5370	37.26	33.05	5.45	33.70	42.06	54	-11.94	V	AV	Pass
5350	54.06	33.06	5.44	33.72	58.84	74	-15.16	H	PK	Pass
5350	40.71	33.06	5.44	33.72	45.49	54	-8.51	H	AV	Pass
5370	51.08	33.05	5.45	33.70	55.88	74	-18.12	H	PK	Pass
5370	35.94	33.05	5.45	33.70	40.74	54	-13.26	H	AV	Pass



U-NII-3

Frequency	Meter Reading	antenna Factor	cable loss	preamplifier factor	Emission Level	Limit	Margin	Polarization	Detector Type	Result
(MHz)	(dB μ V)	(dB)	(dB)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	(H/V)		
802.11a										
5720.00	49.73	33.33	5.70	33.42	55.34	74	-18.66	V	PK	Pass
5725.00	53.34	33.34	5.70	33.42	58.96	74	-15.04	V	PK	Pass
5850.00	56.04	33.64	5.78	33.32	62.14	74	-11.86	V	PK	Pass
5855.00	50.23	33.64	5.78	33.32	56.33	74	-17.67	V	PK	Pass
5720.00	51.94	33.33	5.70	33.42	57.55	74	-16.45	H	PK	Pass
5725.00	53.42	33.34	5.70	33.42	59.04	74	-14.96	H	PK	Pass
5850.00	51.35	33.64	5.78	33.32	57.45	74	-16.55	H	PK	Pass
5855.00	52.19	33.64	5.78	33.32	58.29	74	-15.71	H	PK	Pass
802.11n20										
5720.00	51.47	33.33	5.70	33.42	57.08	74	-16.92	V	PK	Pass
5725.00	52.59	33.34	5.70	33.42	58.21	74	-15.79	V	PK	Pass
5850.00	52.95	33.64	5.78	33.32	59.05	74	-14.95	V	PK	Pass
5855.00	52.17	33.64	5.78	33.32	58.27	74	-15.73	V	PK	Pass
5720.00	47.06	33.33	5.70	33.42	52.67	74	-21.33	H	PK	Pass
5725.00	49.17	33.34	5.70	33.42	54.79	74	-19.21	H	PK	Pass
5850.00	49.08	33.64	5.78	33.32	55.18	74	-18.82	H	PK	Pass
5855.00	51.16	33.64	5.78	33.32	57.26	74	-16.74	H	PK	Pass
802.11ac20										
5720.00	52.11	33.33	5.70	33.42	57.72	74	-16.28	V	PK	Pass



5725.00	58.05	33.34	5.70	33.42	63.67	74	-10.33	V	PK	Pass
5850.00	58.83	33.64	5.78	33.32	64.93	74	-9.07	V	PK	Pass
5855.00	51.34	33.64	5.78	33.32	57.44	74	-16.56	V	PK	Pass
5720.00	48.32	33.33	5.70	33.42	53.93	74	-20.07	H	PK	Pass
5725.00	50.61	33.34	5.70	33.42	56.23	74	-17.77	H	PK	Pass
5850.00	51.69	33.64	5.78	33.32	57.79	74	-16.21	H	PK	Pass
5855.00	53.61	33.64	5.78	33.32	59.71	74	-14.29	H	PK	Pass
802.11n40										
5720.00	51.26	33.33	5.70	33.42	56.87	74	-17.13	V	PK	Pass
5725.00	57.77	33.34	5.70	33.42	63.39	74	-10.61	V	PK	Pass
5850.00	54.86	33.64	5.78	33.32	60.96	74	-13.04	V	PK	Pass
5855.00	51.99	33.64	5.78	33.32	58.09	74	-15.91	V	PK	Pass
5720.00	52.45	33.33	5.70	33.42	58.06	74	-15.94	H	PK	Pass
5725.00	48.48	33.34	5.70	33.42	54.10	74	-19.9	H	PK	Pass
5850.00	50.59	33.64	5.78	33.32	56.69	74	-17.31	H	PK	Pass
5855.00	49.56	33.64	5.78	33.32	55.66	74	-18.34	H	PK	Pass
802.11ac40										
5720.00	50.56	33.33	5.70	33.42	56.17	74	-17.83	V	PK	Pass
5725.00	57.67	33.34	5.70	33.42	63.29	74	-10.71	V	PK	Pass
5850.00	56.96	33.64	5.78	33.32	63.06	74	-10.94	V	PK	Pass
5855.00	49.89	33.64	5.78	33.32	55.99	74	-18.01	V	PK	Pass
5720.00	49.05	33.33	5.70	33.42	54.66	74	-19.34	H	PK	Pass
5725.00	52.98	33.34	5.70	33.42	58.60	74	-15.4	H	PK	Pass
5850.00	50.69	33.64	5.78	33.32	56.79	74	-17.21	H	PK	Pass
5855.00	47.86	33.64	5.78	33.32	53.96	74	-20.04	H	PK	Pass



802.11ac80										
5720.00	51.06	33.33	5.70	33.42	56.67	74	-17.33	V	PK	Pass
5725.00	57.17	33.34	5.70	33.42	62.79	74	-11.21	V	PK	Pass
5850.00	57.36	33.64	5.78	33.32	63.46	74	-10.54	V	PK	Pass
5855.00	53.09	33.64	5.78	33.32	59.19	74	-14.81	V	PK	Pass
5720.00	48.05	33.33	5.70	33.42	53.66	74	-20.34	H	PK	Pass
5725.00	52.68	33.34	5.70	33.42	58.30	74	-15.7	H	PK	Pass
5850.00	53.99	33.64	5.78	33.32	60.09	74	-13.91	H	PK	Pass
5855.00	51.66	33.64	5.78	33.32	57.76	74	-16.24	H	PK	Pass

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

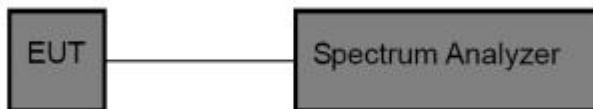


8 Duty cycle

8.1 Limit

Test Requirement: FCC CFR Title 47 Part 15 Subpart C Section 15.407
Test Method: ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to
C63.10a-2024
KDB 789033 D02 v02r01
Test Result: PASS

8.2 Test Setup



8.3 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value. Set VBW $\geq$ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in IILB.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

8.4 Test Result

Please see the attachment for WIFI5.1G and WIFI5.8G data.



9 POWER SPECTRAL DENSITY TEST

9.1 Test Standard and Limit

According to FCC §15.407(3)

(1) 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 colocated 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.

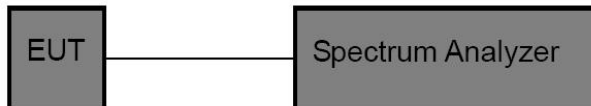
(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall 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 conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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.

9.2 Test Setup



9.3 Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above,
2. The testing follows FCC KDB 789033 D02.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

For U-NII-3 Band:

Set RBW=510 kHz, VBW=3*RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).

9.4 Test Data

Please see the attachment for WIFI5.1G and WIFI5.8G data.

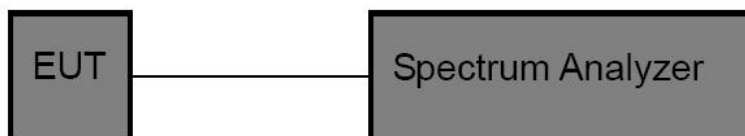


10 26DB & 6DB & 99% Emission Bandwidth Test

10.1 Test Standard

Test Standard	FCC Part15 C Section 15.407
	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band, the minimum bandwidth 6 dB bandwidth of U-NII devices shall be at least 500KHz. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

10.2 Test Setup



10.3 Test Procedure

The following procedure shall be used for measuring 6db bandwidth:

- Set RBW = 100KHz.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 3.3 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth fuNCTion of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth fuNCTion, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

The following procedure shall be used for measuring 26db bandwidth:

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

10.4 Test Data

Please see the attachment for WIFI5.1G and WIFI5.8G data.



11 Maximum Conducted Output Power

11.1 Test Standard and Limit

According to FCC §15.407

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power 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).

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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.

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 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.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

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.

11.2 Test Setup



11.3 Test Procedure

The EUT was directly connected to the Power meter

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

Measurement using a Power Meter(PM)

a) Method PM (Measurement using an RF average power meter):

(i)Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

- The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

- The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(i) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in IIL.B.

(ii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g.



10 log (1/0.25) if the duty cycle is 25%).

b) Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

11.4 Test Data

Please see the attachment for WIFI5.1G and WIFI5.8G data.



12 Out of Band Emissions and Spurious Emission

12.1 Test Standard and Limit

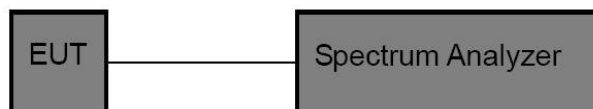
According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

12.2 Test Setup



12.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

12.4 Test Data

Please see the attachment for WIFI5.1G and WIFI5.8G data.



13 Frequency Stability Measurement

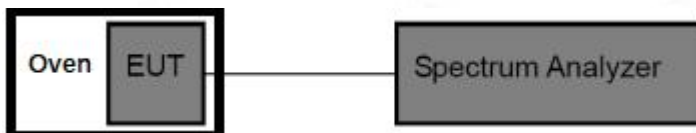
13.1 Test Standard and Limit

FCC

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

13.2 Test Setup



13.3 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11n specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^\circ\text{C} \sim 50^\circ\text{C}$.

13.4 Test Data

Please see the attachment for WIFI5.1G and WIFI5.8G data.



14 Antenna Requirement

14.1 Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

14.2 Antenna Connected Construction

The antenna is Internal Antenna which permanently attached, It complies with the standard requirement.



15 TEST SETUP & EUT PHOTOGRAPH

Please see the attachment for details.

----- End of Report -----