

FCC TEST REPORT

FCC ID:2BC96NB-CMA01-2

Product : Birdfy Cam BA3A
NB-CMA01, NB-CMA01-XXXXXX (XXXXXX)
Model Name : can be A-Z, 0-9,a-z or blank, indicate
different color)
Brand : Birdfy
Report No. : SZNTT26036013E1-2

Prepared for
NETVUE INC.

1055 East Colorado Boulevard 5th Floor Pasadena, CA, 91106, United States

Prepared by

Shenzhen NTT Testing Technology Co., Ltd.

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

TEL: 0755-27889935

1. TEST RESULT CERTIFICATION

Applicant's name : NETVUE INC.

Address : 1055 East Colorado Boulevard 5th Floor Pasadena, CA, 91106, United States

Manufacture's name : NETVUE INC.

Address : 1055 East Colorado Boulevard 5th Floor Pasadena, CA, 91106, United States

Product name : Birdfy Cam BA3A

Model name : NB-CMA01

Additional model : NB-CMA01-XXXXXXX (XXXXXXX can be A-Z, 0-9,a-z or blank, indicate different color)

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

Test Date : Aug. 20, 2026 ~ Sep. 04, 2026

Date of Issue : Sep. 04, 2026

Test Result : Pass

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):
Cindy Qin



Reviewer(Supervisor):
Ken Wu



Approved(Manager):
Abel Yu



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[illegible]

2. General Information

2.1. Description of Device (EUT)

EUT Name	: Birdfy Cam BA3A
Model No.	: NB-CMA01
Model Difference	: All models are the same except for the model name and color.
Power supply	: DC 3.7V or DC 3.6V from battery; Charging input: DC 5V Rechargeable Li-ion Battery: 3.7V,5200mAh 19.24Wh; 3.6V5200mAh 18.72Wh
Operation frequency	: 2412-2462MHz for 802.11b/g/n20; 2422-2452MHz for 802.11n40
Modulation	: 802.11b:(DQPSK, DBPSK, CCK) DSSS 802.11g/n:(64-QAM,16-QAM, QPSK, BPSK) OFDM
Antenna Type	: FPC antenna, Maximum Gain is 1.98 dBi
Intend use environment	: Residential, commercial and light industrial environment

2.2. Channel List

Frequency and Channel list for 802.11 b/g/n20//n40:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462		

Test Frequency and Channel for 802.11 b/g/n20//n40:

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462
3	2422	6	2437	9	2452

2.3. Test configuration

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	FCM362k
Power level setup	default

2.4.Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna requirement	FCC part 15.203/15.247 (b)	PASS
Duty cycle		PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
Conducted Peak Output Power	FCC part 15.247 (b)(3)	PASS
Channel Bandwidth& 99% OCB	FCC part 15.247 (a)(2)	PASS
Power Spectral Density	FCC part 15.247 (e)	PASS
Band Edge	FCC part 15.247(d)	PASS
Spurious Emission	FCC part 15.205/15.209	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

2.5.Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
Adapter	XIAOMI	MDY-12-EF	/	/
PC	ASUS	U1	/	/
USB serial port	/	AML6001G	/	/

2.6.Test mode

The special RF test software was used to control EUT work in Continuous WIFI TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
802.11b	2412MHz	2437MHz	2462MHz
802.11g	2412MHz	2437MHz	2462MHz
802.11n20	2412MHz	2437MHz	2462MHz
802.11n40	2422MHz	2437MHz	2452MHz

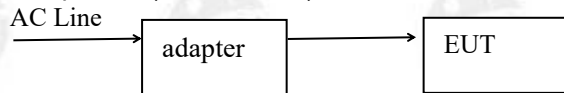
Note: Only the worst Data 1Mbps/6Mbps/6.5Mbps Record in the report

2.7.Block Diagram

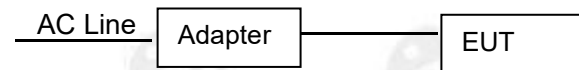
Radiated Emission (30MHz-1GHz)



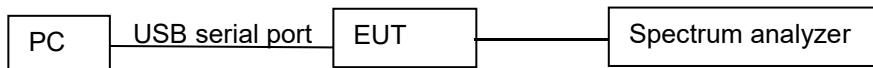
Radiated Spurious(above 1GHz)



Conducted Emission



RF Conducted Test



2.8.Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35℃	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	DC 3.7V	N/A

Note: N/A is an abbreviation for Not Applicable.

2.9.Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
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~6GHz)	$\pm 3.92\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.33\text{dB}$	
Radiated Emission(18GHz~40GHz)	$\pm 3.38\text{dB}$	
Uncertainty for conducted RF Power	$\pm 0.20\text{dB}$	
Conducted spurious emissions	$\pm 0.24\text{dB}$	
Uncertainty for temperature	0.6℃	
Uncertainty for humidity	1%	

Bandwidth	$\pm 1.5 \times 10^{-6}$	
Time	$\pm 2\%$	
Duty Cycle	$\pm 2\%$	
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%		

2.10. Test Facility

Site Description		
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, Guangdong, China
FCC Designation Number	:	CN3446
FCC Test Firm Registration Number	:	129414

2.11. Test Equipment

Conducted Test Site

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	ESPI	/	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 Test Site(Below 1G and Above 1G)&RF Test Site

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
Amplifi (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

Pream plifier (1GHz-18GHz)	BBV 9718D	0024	SCHWARZBECK	2025/9/8	2026/9/7
Spectrum Analyze (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2025/9/8	2026/9/7
Pream plifier (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
RF Switch	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

Test software

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	RFTest	V1.0.0
4	RF communication test system	TACHOY	RFTest	V1.0.0

3. Conducted emission at the mains terminals test

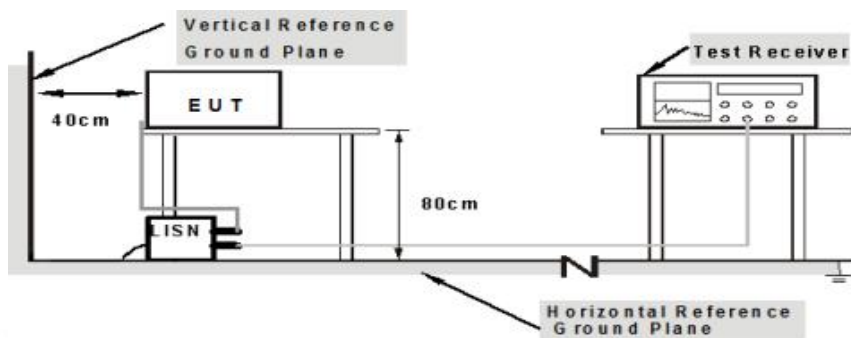
3.1.Limit

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.2.Test Setup



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

3.3.Test Procedure

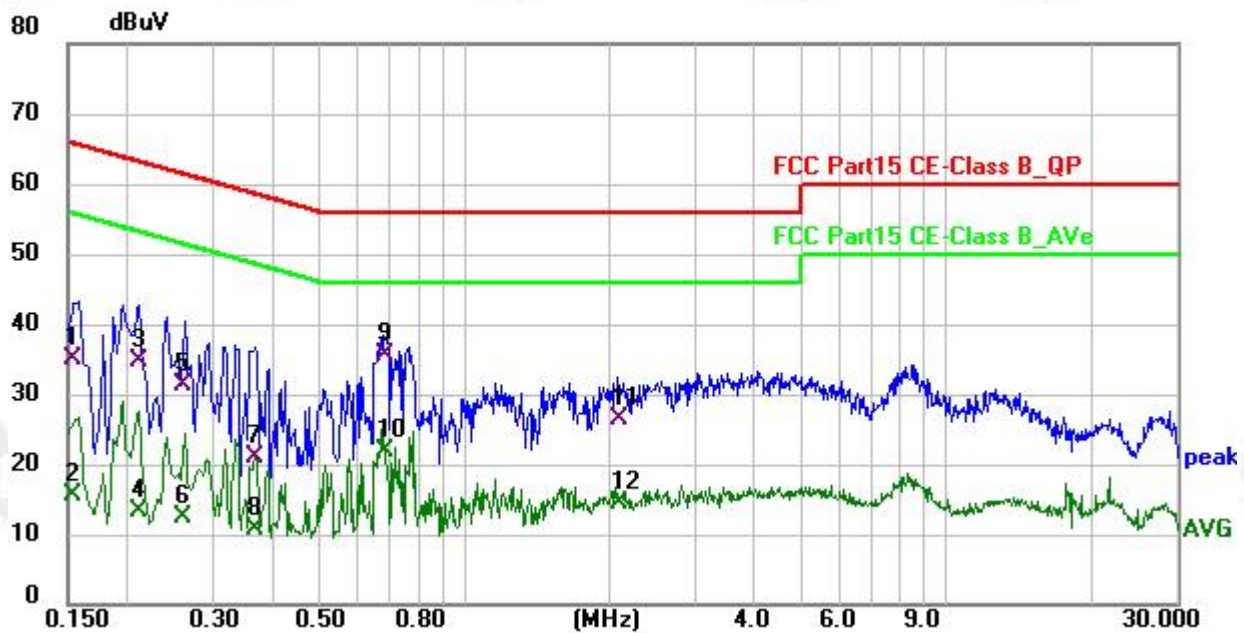
1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
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.

3.4.Test Result

Pass.

All the modulation modes were tested the data of the worst mode (802.11g_2412.00MHz,DC 3.7V from Battery) are recorded in the following pages and the others modulation methods do not exceed the limits.

Conducted Emission At The Mains Terminals Test Data			
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Test Mode:	WIFI 2.4g+Charging

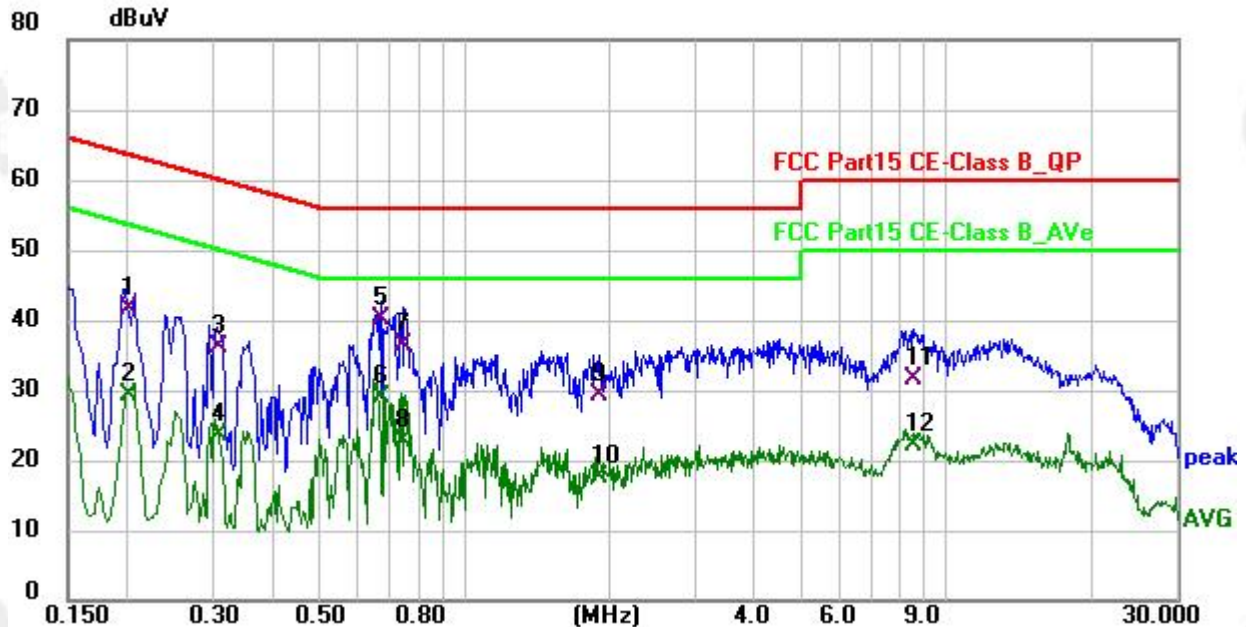


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1541	15.41	19.70	35.11	65.78	-30.67	QP
2	0.1541	-4.06	19.70	15.64	55.78	-40.14	AVG
3	0.2098	14.79	19.95	34.74	63.21	-28.47	QP
4	0.2098	-6.57	19.95	13.38	53.21	-39.83	AVG
5	0.2598	11.28	19.97	31.25	61.44	-30.19	QP
6	0.2598	-7.52	19.97	12.45	51.44	-38.99	AVG
7	0.3683	1.12	19.96	21.08	58.54	-37.46	QP
8	0.3683	-9.32	19.96	10.64	48.54	-37.90	AVG
9 *	0.6812	15.42	20.06	35.48	56.00	-20.52	QP
10	0.6812	1.93	20.06	21.99	46.00	-24.01	AVG
11	2.0939	6.33	19.98	26.31	56.00	-29.69	QP
12	2.0939	-5.46	19.98	14.52	46.00	-31.48	AVG

Note:

1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Margin = Reading level + Correct Factor - Limit
3. All the modes have tested and recorded the worst mode(802.11g_2412.00MHz) in the report

Conducted Emission At The Mains Terminals Test Data			
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Test Mode:	WIFI 2.4g+Charging



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2011	21.64	19.91	41.55	63.57	-22.02	QP
2	0.2011	9.32	19.91	29.23	53.57	-24.34	AVG
3	0.3081	16.19	19.88	36.07	60.02	-23.95	QP
4	0.3081	3.60	19.88	23.48	50.02	-26.54	AVG
5 *	0.6676	20.16	19.99	40.15	56.00	-15.85	QP
6	0.6676	8.87	19.99	28.86	46.00	-17.14	AVG
7	0.7499	16.36	19.98	36.34	56.00	-19.66	QP
8	0.7499	2.81	19.98	22.79	46.00	-23.21	AVG
9	1.9047	9.31	19.92	29.23	56.00	-26.77	QP
10	1.9047	-2.45	19.92	17.47	46.00	-28.53	AVG
11	8.5293	11.58	19.95	31.53	60.00	-28.47	QP
12	8.5293	2.24	19.95	22.19	50.00	-27.81	AVG

Note:

1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Margin = Reading level + Correct Factor - Limit
3. All the modes have tested and recorded the worst mode(802.11g_2412.00MHz) in the report

4. Radiated Spurious Emissions

4.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247
 Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
 ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to
 C63.10a-2024
 Test Result: PASS
 Measurement Distance: 3m

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

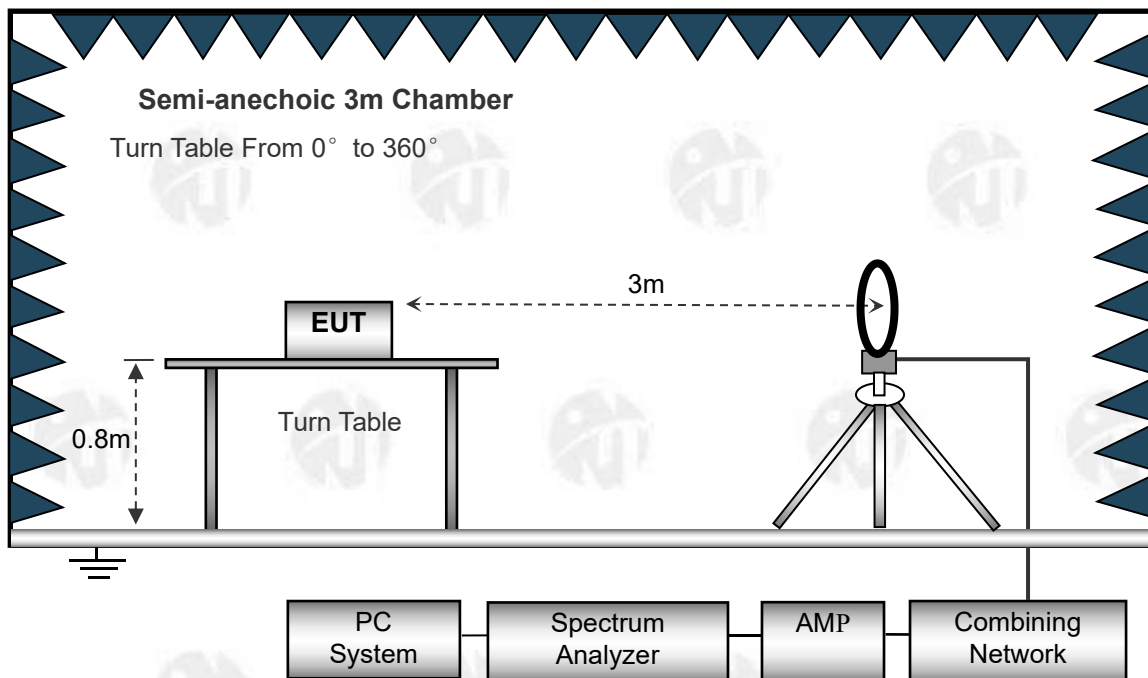
Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	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	$20\log(500)$

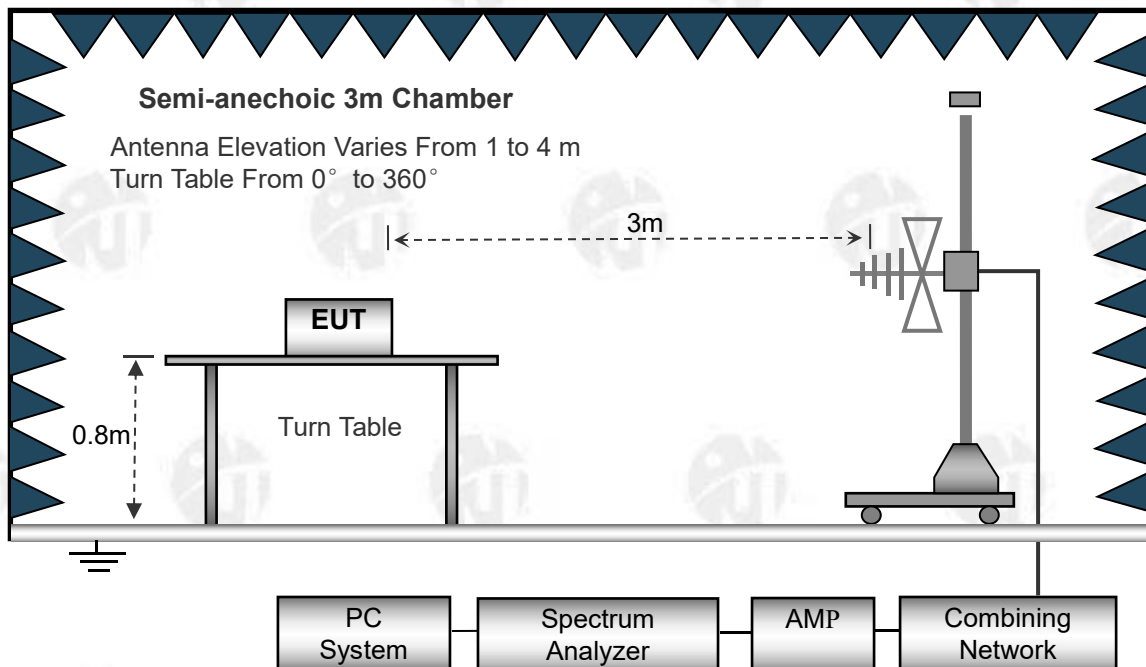
4.2.Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

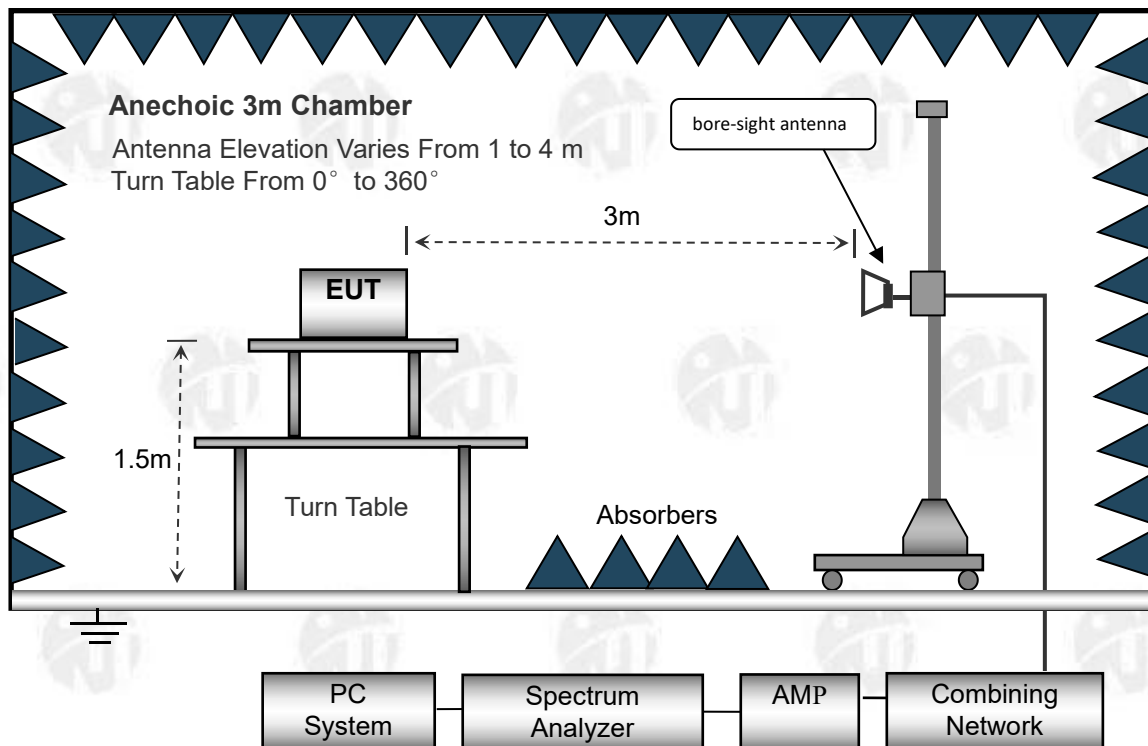
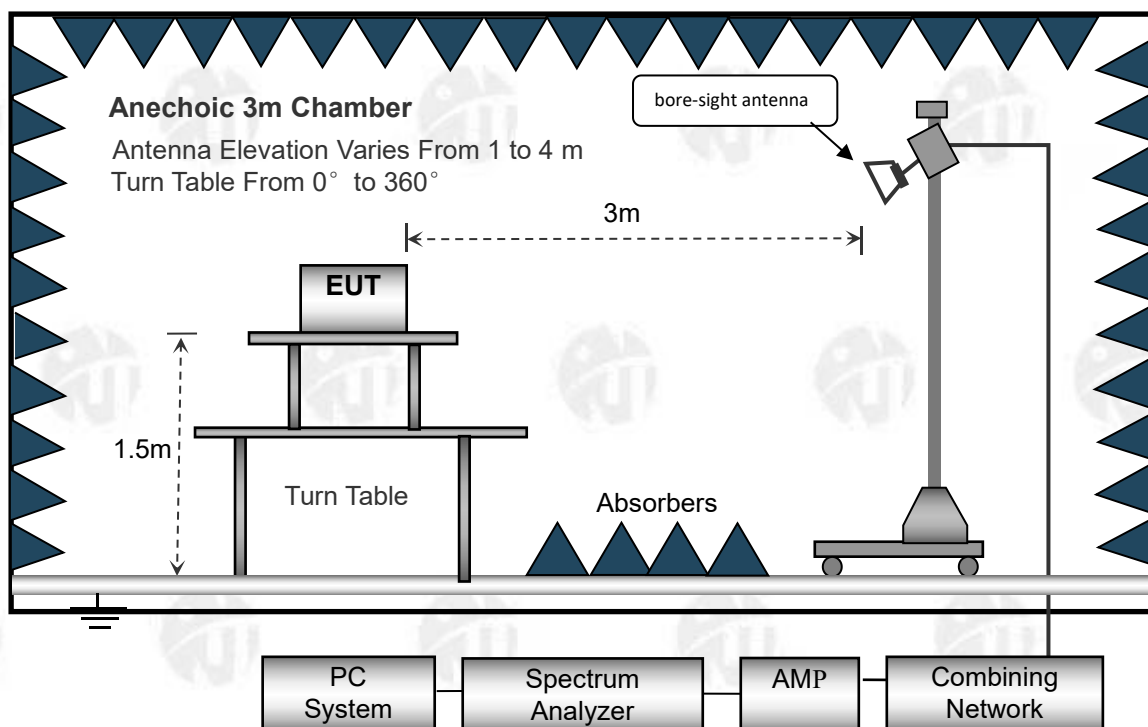
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



4.3.Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high - pass filter is used during radiated emissions above 1GHz measurement.

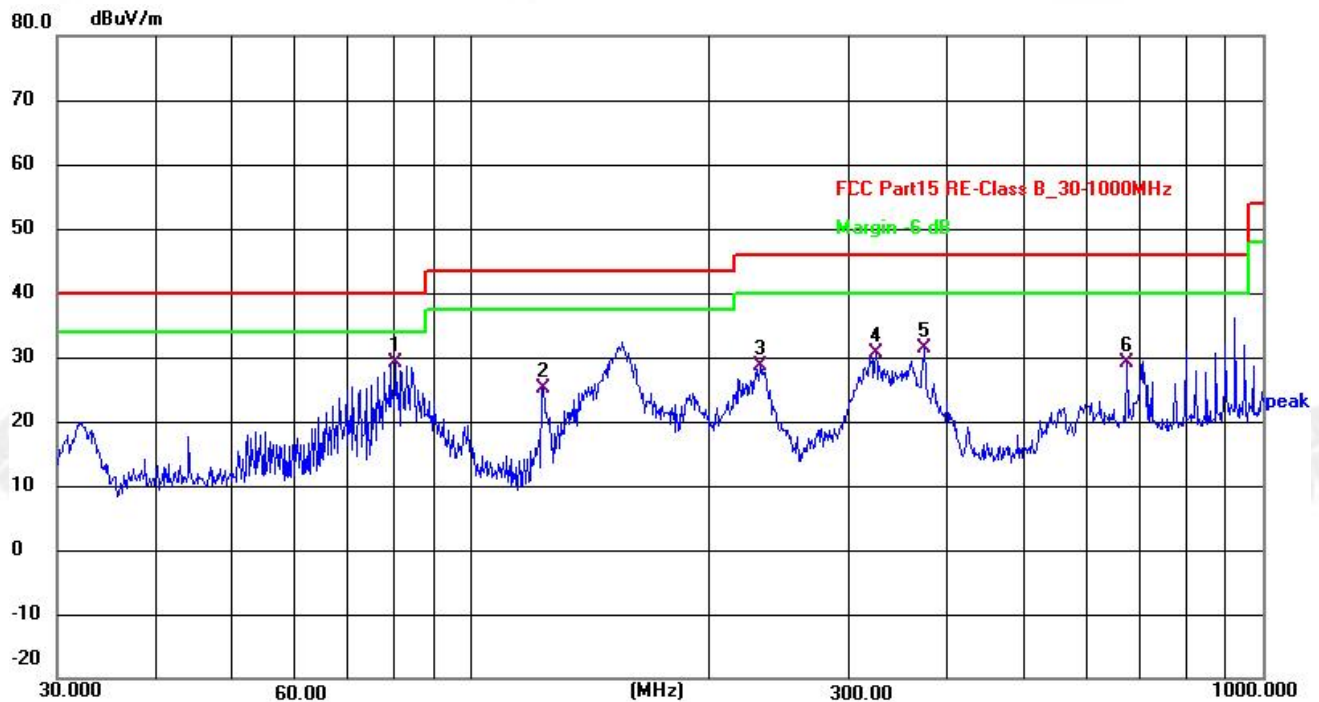
4.4.Test Result

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	26°C	Relative Humidity:	54%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Test Mode :	802.11g(2412.00MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	80.3617	49.49	-20.28	29.21	40.00	-10.79	QP
2	123.2654	43.51	-18.30	25.21	43.50	-18.29	QP
3	231.7178	44.20	-15.67	28.53	46.00	-17.47	QP
4	324.4560	44.34	-13.68	30.66	46.00	-15.34	QP
5	373.3112	43.74	-12.32	31.42	46.00	-14.58	QP
6	672.8444	36.32	-7.17	29.15	46.00	-16.85	QP

Note:

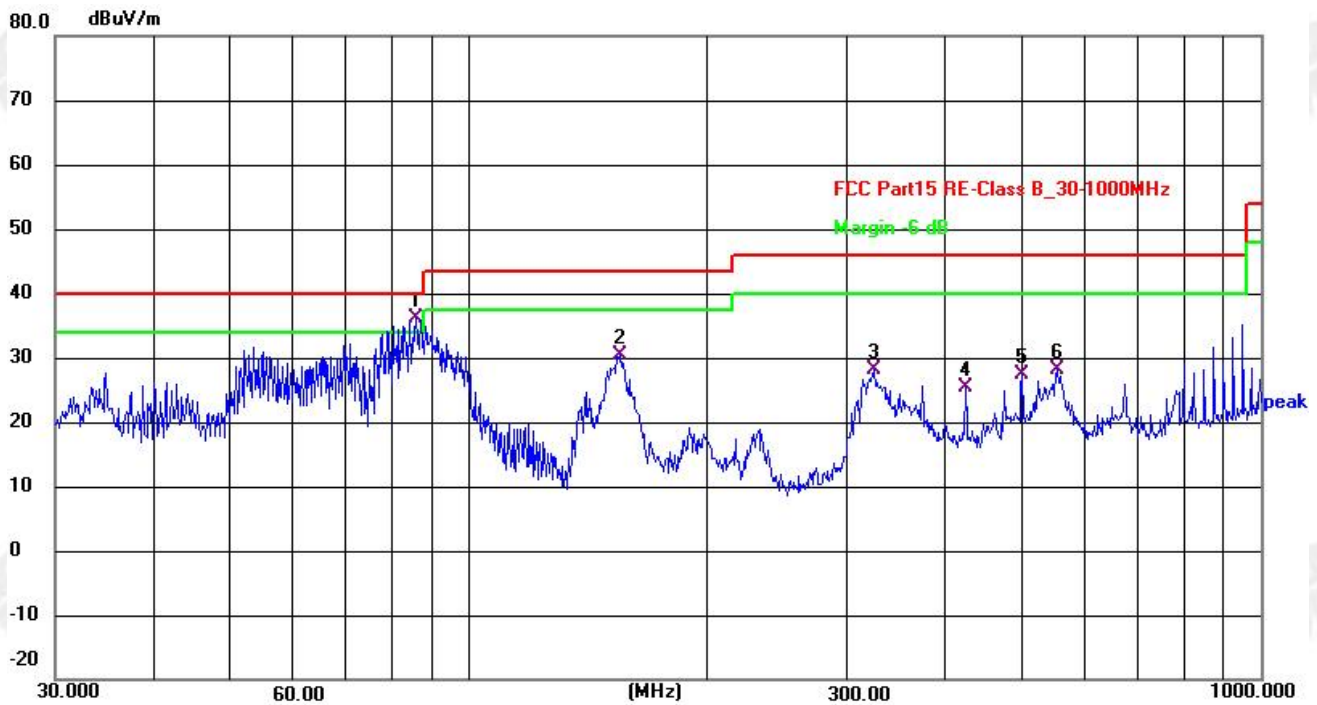
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

Margin=Emission Level-Limit

2. All the modes have tested and recorded the worst mode(802.11g_2412.00MHz) in the report

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Test Mode :	802.11g(2412.00MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	85.5977	55.57	-19.38	36.19	40.00	-3.81	QP
2	155.3643	49.78	-19.33	30.45	43.50	-13.05	QP
3	324.4560	41.92	-13.68	28.24	46.00	-17.76	QP
4	423.5402	37.11	-11.70	25.41	46.00	-20.59	QP
5	499.4246	37.24	-9.85	27.39	46.00	-18.61	QP
6	552.8832	36.94	-8.70	28.24	46.00	-17.76	QP

Note:

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

Emission Level = Reading + Factor

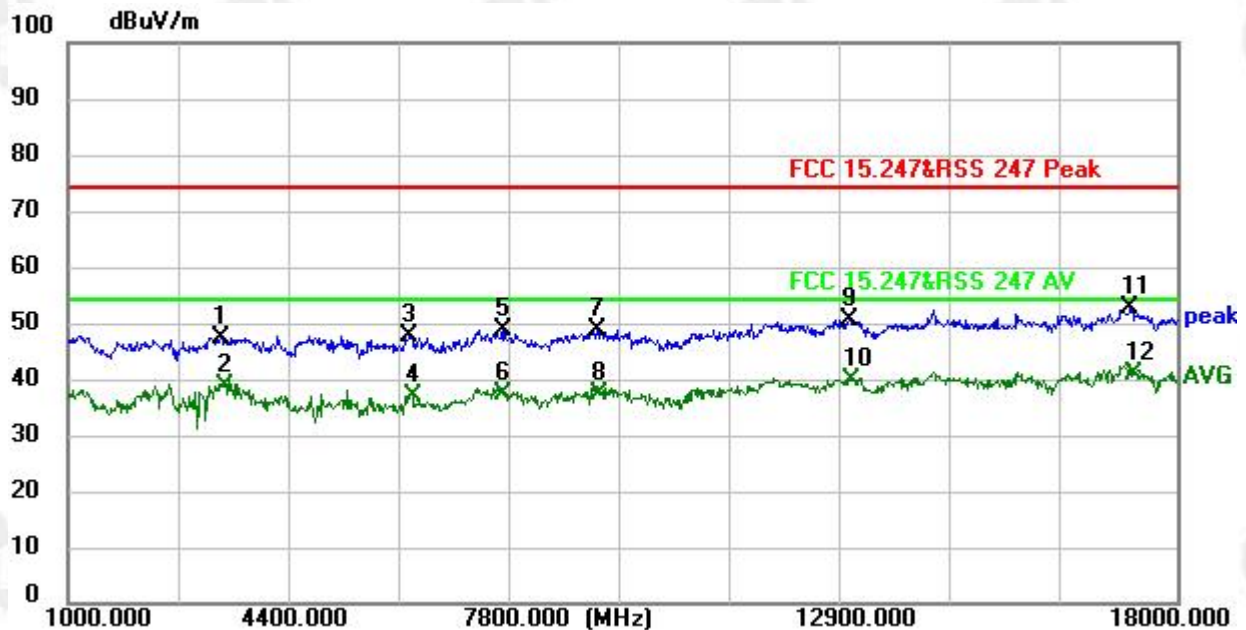
Margin=Emission Level-Limit

2. All the modes have tested and recorded the worst mode(802.11g_2412.00MHz) in the report

Test Frequency: From 1GHz to 18GHz

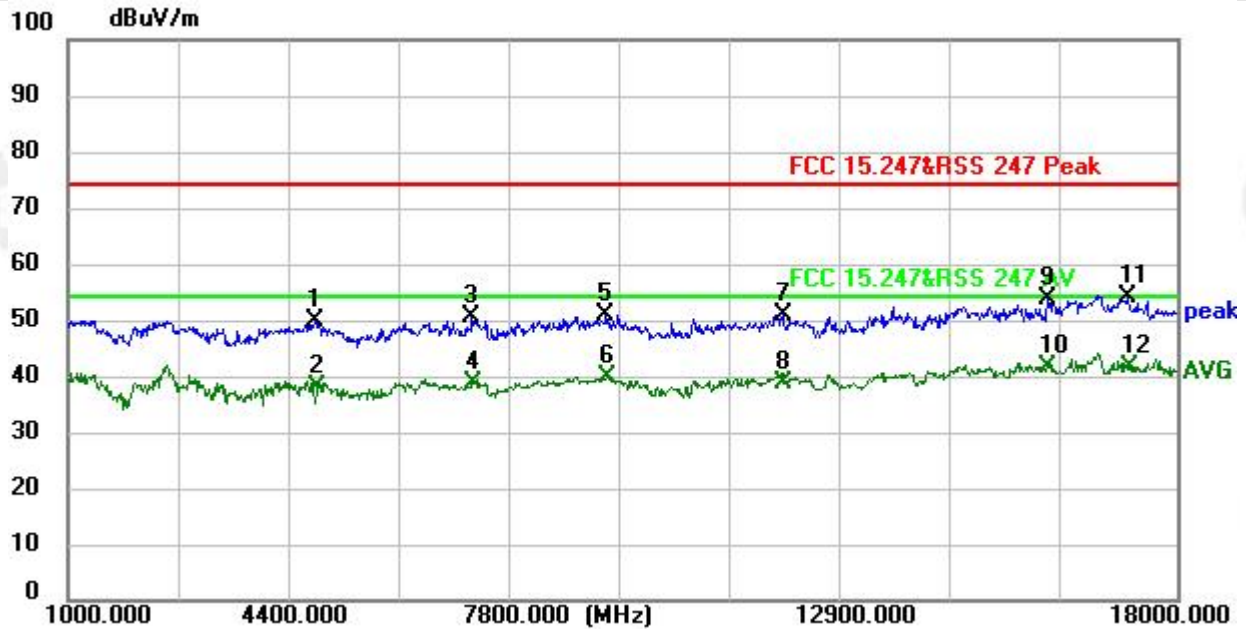
All the modes have tested and recorded the worst mode(802.11g,DC 3.7V from Battery) in the report

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g Low Channel



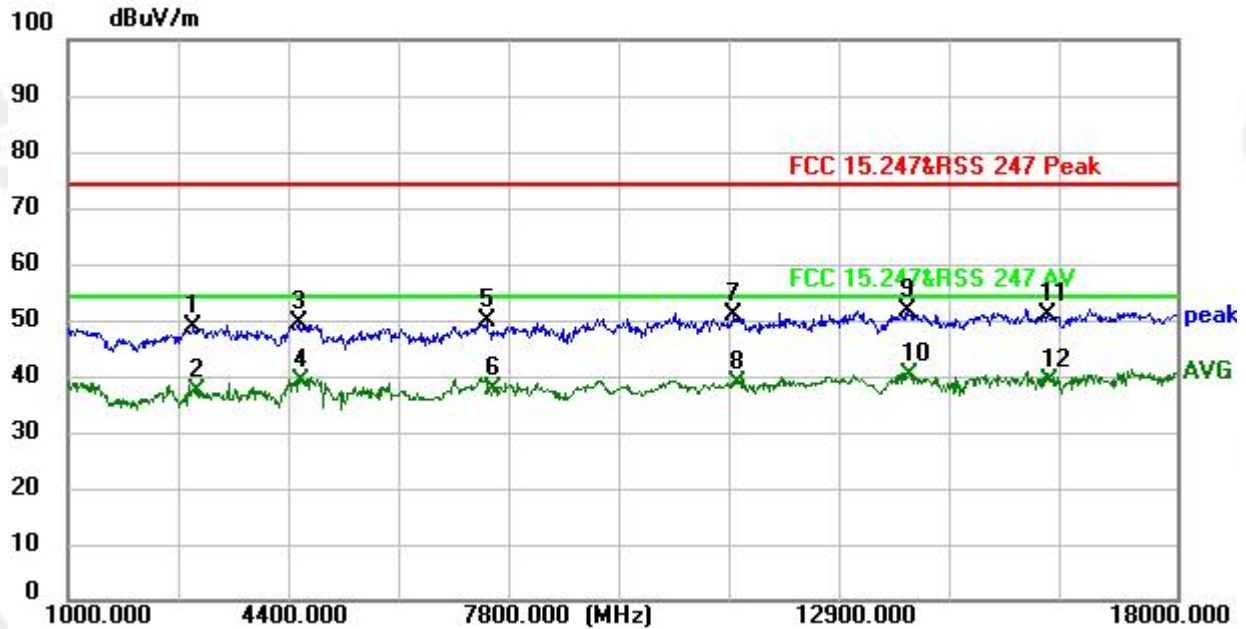
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3346.0000	46.71	0.64	47.35	74.00	-26.65	peak
2	3397.0000	37.74	0.88	38.62	54.00	-15.38	AVG
3	6236.0000	38.93	8.68	47.61	74.00	-26.39	peak
4	6287.0000	28.11	8.95	37.06	54.00	-16.94	AVG
5	7664.0000	37.07	11.73	48.80	74.00	-25.20	peak
6	7681.0000	25.70	11.76	37.46	54.00	-16.54	AVG
7	9109.0000	35.01	13.57	48.58	74.00	-25.42	peak
8	9160.0000	23.62	13.76	37.38	54.00	-16.62	AVG
9	12985.0000	31.47	19.19	50.66	74.00	-23.34	peak
10	13019.0000	20.66	19.25	39.91	54.00	-14.09	AVG
11	17286.0000	31.45	21.13	52.58	74.00	-21.42	peak
12 *	17354.0000	19.45	21.36	40.81	54.00	-13.19	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g Low Channel



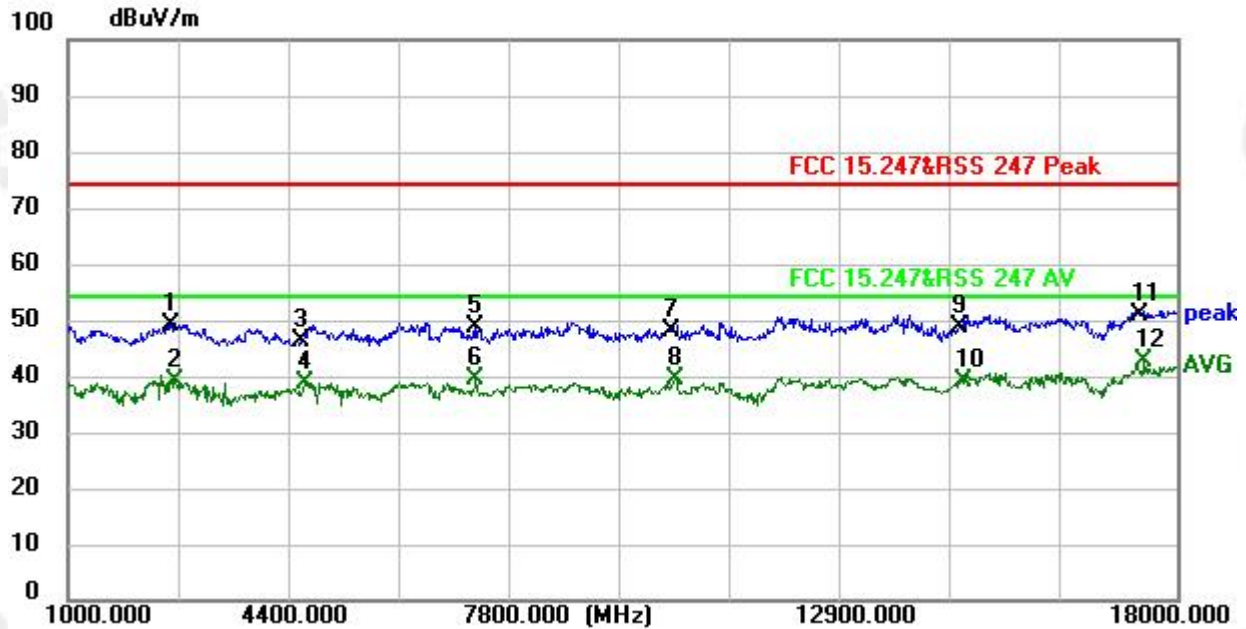
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4791.0000	45.23	4.74	49.97	74.00	-24.03	peak
2	4825.0000	33.19	4.72	37.91	54.00	-16.09	AVG
3	7188.0000	38.62	11.76	50.38	74.00	-23.62	peak
4	7222.0000	27.04	11.86	38.90	54.00	-15.10	AVG
5	9245.0000	37.21	13.57	50.78	74.00	-23.22	peak
6	9262.0000	26.30	13.55	39.85	54.00	-14.15	AVG
7	11965.0000	33.92	16.92	50.84	74.00	-23.16	peak
8	11982.0000	21.92	16.93	38.85	54.00	-15.15	AVG
9	16028.0000	36.59	17.08	53.67	74.00	-20.33	peak
10 *	16028.0000	24.61	17.08	41.69	54.00	-12.31	AVG
11	17235.0000	33.18	20.84	54.02	74.00	-19.98	peak
12	17286.0000	20.43	21.13	41.56	54.00	-12.44	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g Mid Channel



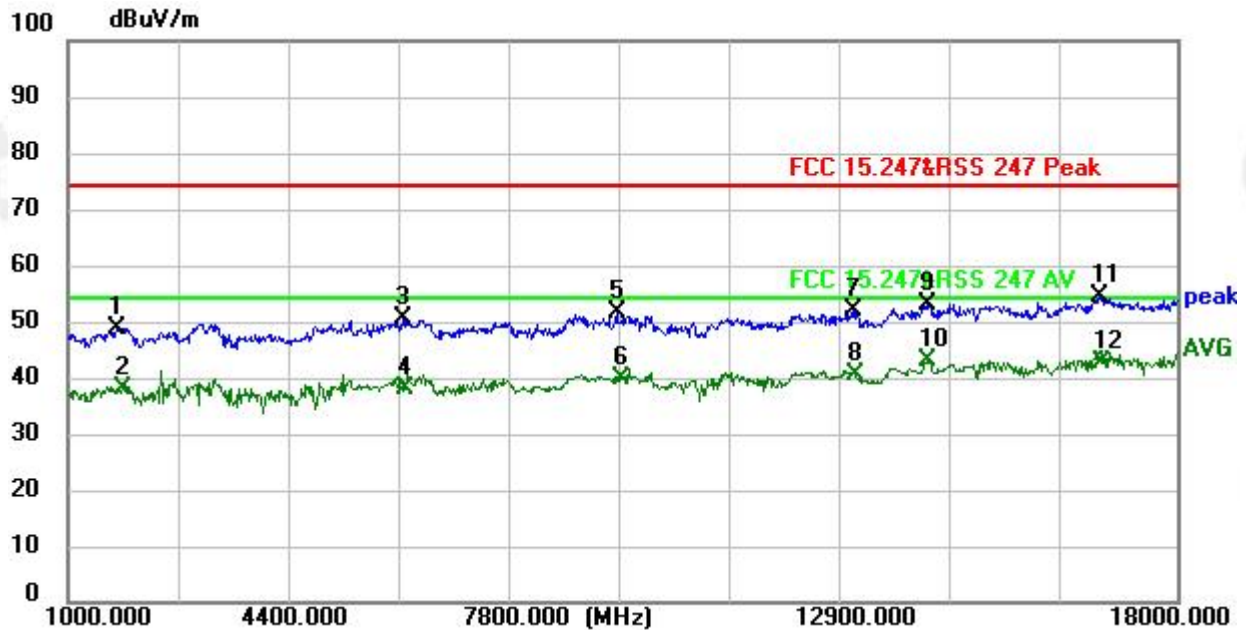
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2921.0000	49.16	-0.54	48.62	74.00	-25.38	peak
2	2972.0000	37.85	-0.41	37.44	54.00	-16.56	AVG
3	4536.0000	45.34	4.06	49.40	74.00	-24.60	peak
4	4587.0000	34.71	4.30	39.01	54.00	-14.99	AVG
5	7426.0000	36.96	12.90	49.86	74.00	-24.14	peak
6	7511.0000	26.35	11.49	37.84	54.00	-16.16	AVG
7	11217.0000	34.89	16.06	50.95	74.00	-23.05	peak
8	11268.0000	22.74	16.18	38.92	54.00	-15.08	AVG
9	13869.0000	32.46	19.14	51.60	74.00	-22.40	peak
10 *	13903.0000	20.94	19.12	40.06	54.00	-13.94	AVG
11	16011.0000	33.72	17.03	50.75	74.00	-23.25	peak
12	16062.0000	22.04	17.15	39.19	54.00	-14.81	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g Mid Channel



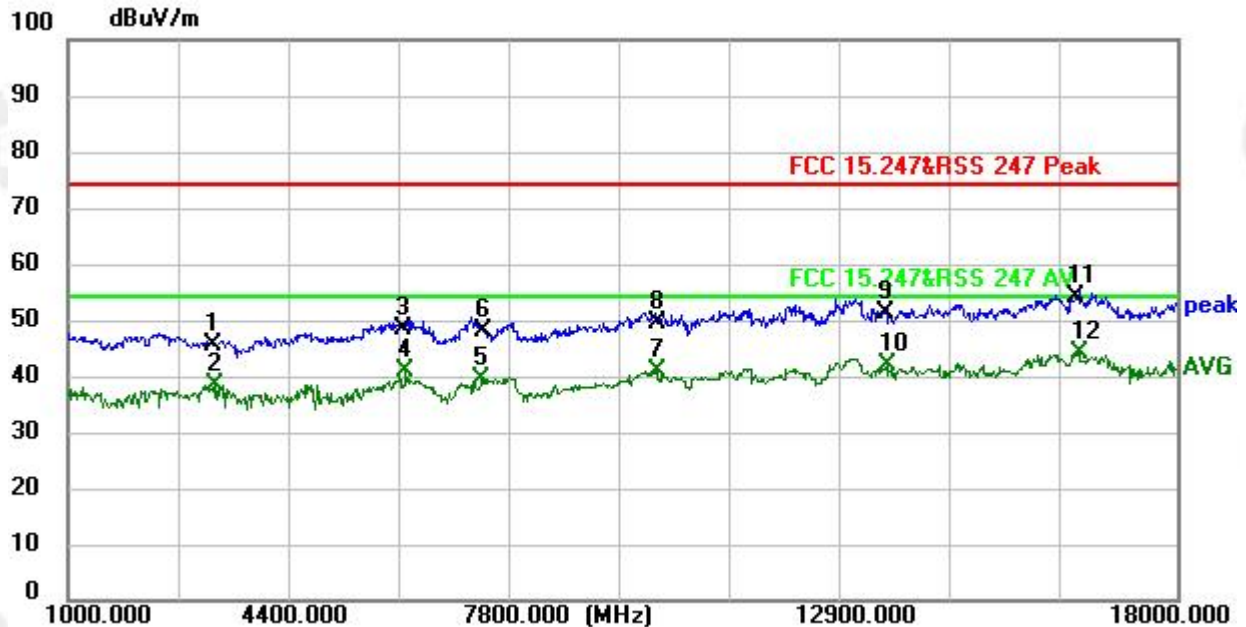
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2581.0000	51.15	-2.06	49.09	74.00	-24.91	peak
2	2649.0000	40.75	-1.62	39.13	54.00	-14.87	AVG
3	4587.0000	42.05	4.30	46.35	74.00	-27.65	peak
4	4621.0000	34.36	4.42	38.78	54.00	-15.22	AVG
5	7239.0000	36.97	11.90	48.87	74.00	-25.13	peak
6	7256.0000	27.71	11.90	39.61	54.00	-14.39	AVG
7	10265.0000	33.32	14.59	47.91	74.00	-26.09	peak
8	10299.0000	24.99	14.65	39.64	54.00	-14.36	AVG
9	14668.0000	29.91	18.90	48.81	74.00	-25.19	peak
10	14719.0000	20.24	18.92	39.16	54.00	-14.84	AVG
11	17422.0000	29.27	21.54	50.81	74.00	-23.19	peak
12 *	17507.0000	20.79	21.77	42.56	54.00	-11.44	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1765.0000	53.96	-5.21	48.75	74.00	-25.25	peak
2	1833.0000	43.08	-4.95	38.13	54.00	-15.87	AVG
3	6151.0000	41.97	8.48	50.45	74.00	-23.55	peak
4	6185.0000	29.45	8.58	38.03	54.00	-15.97	AVG
5	9415.0000	38.28	13.39	51.67	74.00	-22.33	peak
6	9483.0000	26.36	13.58	39.94	54.00	-14.06	AVG
7	13036.0000	32.60	19.26	51.86	74.00	-22.14	peak
8	13087.0000	21.25	19.29	40.54	54.00	-13.46	AVG
9	14175.0000	33.98	19.04	53.02	74.00	-20.98	peak
10 *	14192.0000	23.94	19.04	42.98	54.00	-11.02	AVG
11	16810.0000	35.86	18.65	54.51	74.00	-19.49	peak
12	16861.0000	24.02	18.77	42.79	54.00	-11.21	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3210.0000	45.29	0.29	45.58	74.00	-28.42	peak
2	3261.0000	37.92	0.47	38.39	54.00	-15.61	AVG
3	6151.0000	39.99	8.48	48.47	74.00	-25.53	peak
4	6185.0000	32.16	8.58	40.74	54.00	-13.26	AVG
5	7341.0000	27.82	11.58	39.40	54.00	-14.60	AVG
6	7358.0000	36.62	11.54	48.16	74.00	-25.84	peak
7	10027.0000	26.59	14.35	40.94	54.00	-13.06	AVG
8	10044.0000	35.01	14.36	49.37	74.00	-24.63	peak
9	13546.0000	32.22	19.14	51.36	74.00	-22.64	peak
10	13563.0000	22.89	19.14	42.03	54.00	-11.97	AVG
11	16453.0000	36.06	17.99	54.05	74.00	-19.95	peak
12 *	16504.0000	25.98	18.11	44.09	54.00	-9.91	AVG

Note: 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.

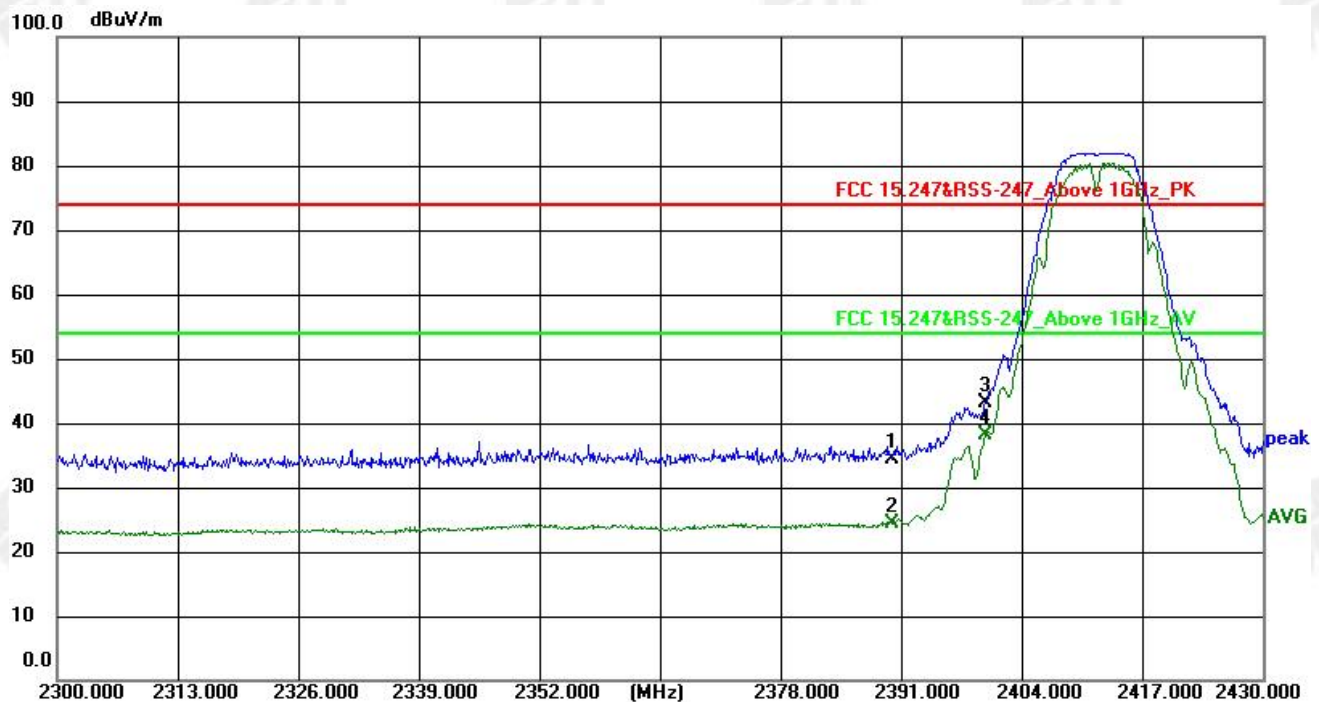
Test Frequency 18GHz-26.5GHz

The measurements were more than 20 dB below the limit and not reported.

Radiated Band Emission Measurement:

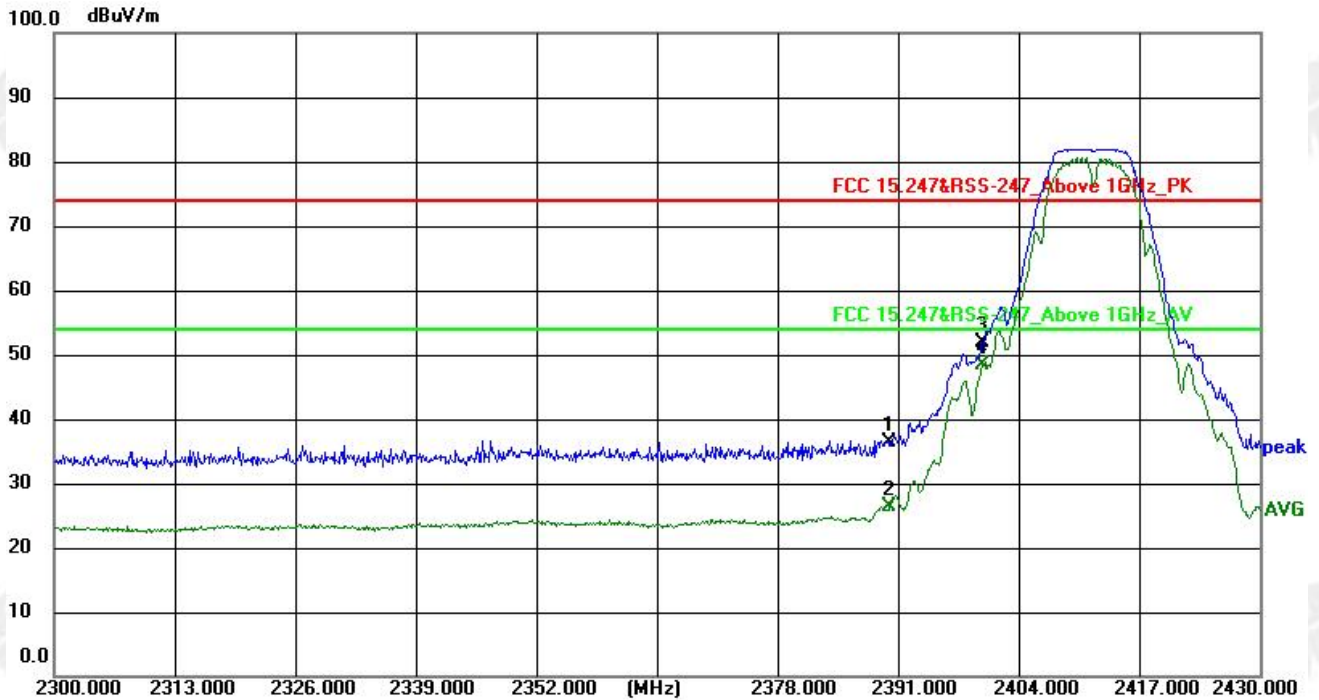
All the modes have tested and recorded the worst mode(802.11g,DC 3.7V from Battery) in the report

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g Low Channel



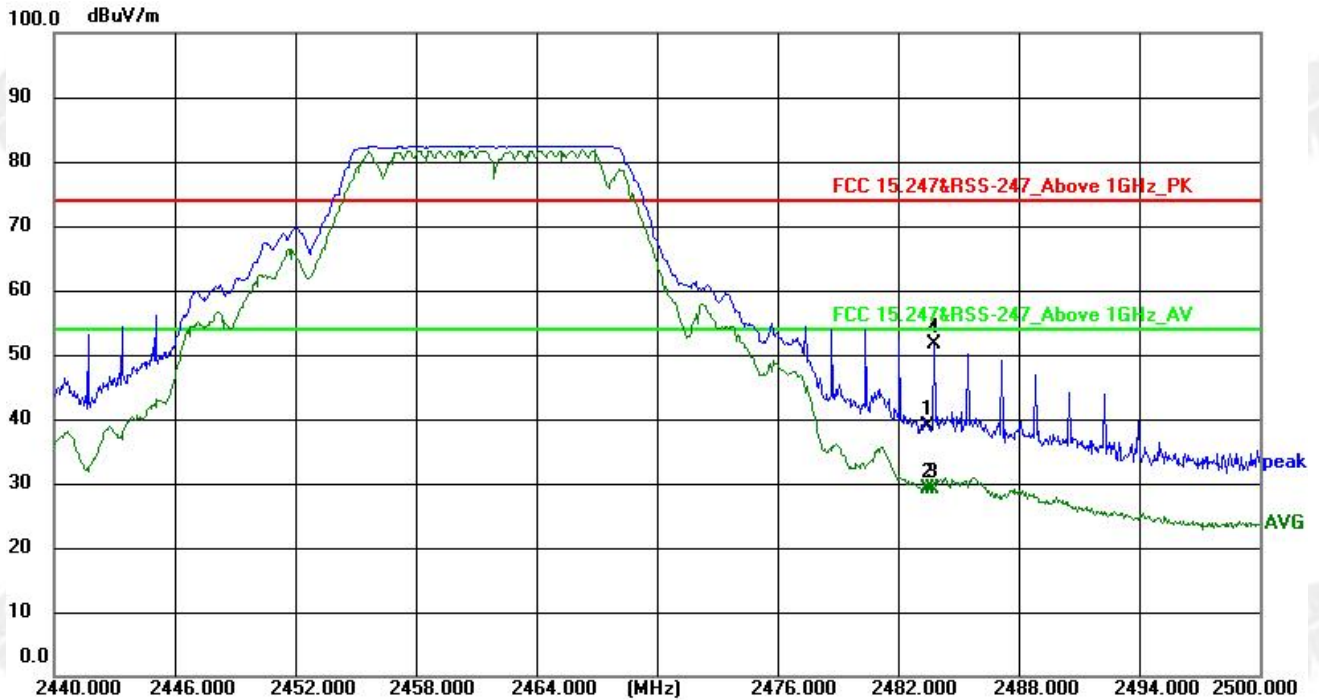
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.090	39.39	-4.93	34.46	74.00	-39.54	peak
2	2390.090	29.34	-4.93	24.41	54.00	-29.59	AVG
3	2400.100	47.99	-4.93	43.06	74.00	-30.94	peak
4	2400.100	42.98	-4.93	38.05	54.00	-15.95	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g Low Channel



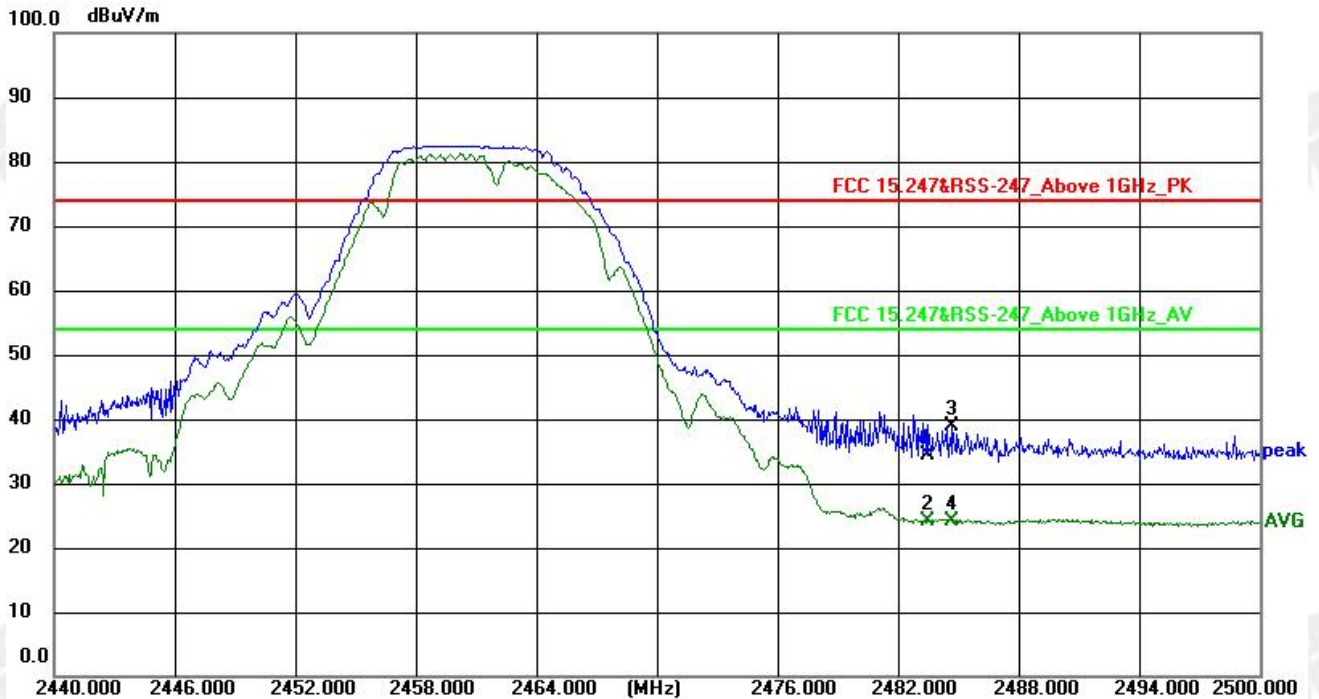
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.090	41.38	-4.93	36.45	74.00	-37.55	peak
2	2390.090	31.26	-4.93	26.33	54.00	-27.67	AVG
3	2400.100	56.78	-4.93	51.85	74.00	-22.15	peak
4	2400.100	53.33	-4.93	48.40	54.00	-5.60	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g high Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	43.13	-4.23	38.90	74.00	-35.10	peak
2	2483.500	33.41	-4.23	29.18	54.00	-24.82	AVG
3	2483.740	33.27	-4.23	29.04	54.00	-24.96	AVG
4	2483.800	55.78	-4.23	51.55	74.00	-22.45	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V from adapter input AC 120V/60Hz and DC 3.7V from Battery	Mode	802.11g high Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	38.69	-4.23	34.46	74.00	-39.54	peak
2	2483.500	28.41	-4.23	24.18	54.00	-29.82	AVG
3	2484.700	43.05	-4.22	38.83	74.00	-35.17	peak
4	2484.700	28.27	-4.22	24.05	54.00	-29.95	AVG

Note:

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

5. Duty cycle

5.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Test Result: PASS

5.2.Test Setup



5.3.Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
 - a) Set the center frequency of the instrument to the center frequency of the transmission.
 - b) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - c) Set $VBW \geq RBW$. Detector = peak or average.
 - d) Sweep time = auto couple.
 - e) Trace mode = max hold.
 - f) Allow trace to fully stabilize.

5.4.Test Result

Please see the attachment for data.

6. Conducted Spurious Emissions

6.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Test Result: PASS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.2.Test Setup



6.3.Test Procedure

- Set instrument center frequency to DTS channel center frequency.
 - Set the span to ≥ 1.5 times the DTS bandwidth.
 - Set the RBW = 100 kHz.
 - Set the VBW $\geq [3 \times \text{RBW}]$.
 - Detector = peak.
 - Sweep time = No faster than coupled (auto) time.
 - Trace mode = max-hold.
 - Allow trace to fully stabilize.
 - Use the peak marker function to determine the maximum PSD level.
- Note that the channel found to contain the maximum PSD level can be used to establish the reference level
- Establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.4.Test Result

Please see the attachment for data.

7. Band Edge Measurement

7.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

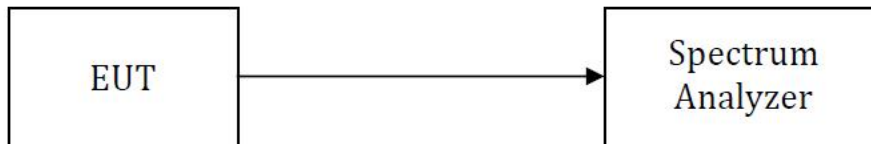
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

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

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Mode: Transmitting

7.2.Test setup



7.3.Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
3. Establish a reference level by using the following procedure
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to ≈ 1.5 times the DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW $\approx [3 \times \text{RBW}]$.
 - e) Detector = peak.
 - f) Sweep time = No faster than coupled (auto) time.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.Note that the channel found to contain the maximum PSD level can be used to establish the reference level.
4. Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

7.4.Test Result

Please see the attachment for data.

8. -6 dB Bandwidth and 99% Bandwidth Measurement

8.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019; ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

8.2.Test Setup



8.3.Test Procedure

DTS Bandwidth

- a) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- b) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Trace mode = max-hold.
- f) Sweep = No faster than coupled (auto) time.
- g) Allow the trace to stabilize.

99% Bandwidth

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.

8.4.Test Result

Please see the attachment for data.

9. Maximum Output Power

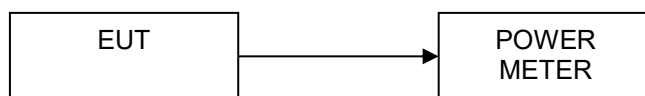
9.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019;ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

9.2.Test Setup



9.3.Test Procedure

1. The RF output of EUT was connected to the Power meter by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously. Measure the output power and record the results in the test report.

9.4.Test Result

Please see the attachment for data.

10. Power Spectral density

10.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019; ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

10.2.Test Setup



10.3.Test Procedure

KDB 558074 D01 15.247 Meas Guidance v05r02;

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set instrument center frequency to DTS channel center frequency
3. Set span to > 1.5 times the OBW.
4. Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
5. Set VBW $\geq [3 \times \text{RBW}]$
6. Detector = power averaging (rms) or sample detector (when rms not available).
7. Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
8. Sweep time = auto couple.
9. Employ trace averaging (rms) mode over a minimum of 100 traces.
10. Use the peak marker function to determine the maximum amplitude level.
11. If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this might require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).
12. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

10.4.Test Result

Please see the attachment for data.

11. Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, 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. This product has an integrated antenna fulfill the requirement of this section.

This product has an FPC antenna, and the maximum antenna gain is 1.98 dBi, fulfill the requirement of this section.

12. TEST SETUP & EUT PHOTOGRAPH

Please see the attachment for details.

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