

TEST REPORT

Applicant : Faytech Tech.Co., Ltd.
Address : Room 202A and 202B, 2nd Floor, Building 8, Yunli Intelligent Park,
No. 7, Changfa Middle Road, Yangmei Community, Bantian Street,
Longgang District, Shenzhen, Guangdong, China
Manufacturer : Faytech Tech.Co., Ltd.
Address : Room 202A and 202B, 2nd Floor, Building 8, Yunli Intelligent Park,
No. 7, Changfa Middle Road, Yangmei Community, Bantian Street,
Longgang District, Shenzhen, Guangdong, China
Factory : Sichuan faytech Tech.co.
Address : FL3,Guojun road no 29,National economic and technological
development zone,Suining city,Sichuan province,China
Product Name : 32" Capacitive Touch PC Kiosk
Model Number : FT32J4125CAPHBOB
Trademark : N/A
FCC ID : 2BQK4FT32J4125CAPH
Test Date : Nov. 20, 2025 - Dec. 30, 2025
Date of Report : Dec. 30, 2025
Test Result : This device described above has been tested by BKC, and the test
results show that the equipment under test (EUT) is in compliance
with the Standard requirements. And it is applicable only to the tested
sample identified in the report.

Test Procedure Used:

Standards : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2020
RSS-247 Issue 3 August 2023
RSS-Gen Issue 5, Amendment 2 (February 2021)

Prepared by(Test Engineer):
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Approved(Manager):
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Approved(Manager):
Jerry Liao



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Revision History of This Test Report

[illegible]

1. General Information

1.1. Customer basic information

Contacts : Zhongzhong Zhou
E-Mail : 372482756@QQ.com
Telephone : 13169599359

1.2. Description of Device (EUT)

EUT Name : 32" Capacitive Touch PC Kiosk
Model No. : FT32J4125CAPHBOB
Model Difference : /
Power supply : Input:100-240Vac, 50/60Hz, 4A
Operation frequency : 2.412-2.462GHz
Max. RF output power: : 15.55dBm
Modulation : 802.11b: Direct Sequence Spread Spectrum(DSSS)
802.11g/802.11n(H20)/802.11n(H40):
Orthogonal Frequency Division Multiplexing(OFDM)
Antenna Type : PCB antenna, Maximum Gain is 0.81dBi
Intend use environment : Residential, commercial and light industrial environment

1.3. Channel List

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	12	2467
13	2472						

1.4. Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna requirement	FCC part 15.203/15.247 (c) RSS-Gen Section 7.1.2	PASS
AC Power Line Conducted Emission	FCC part 15.207 RSS-Gen 8.8	PASS
Conducted Peak Output Power	FCC part 15.247 (b)(3) RSS-247 5.4(d)	PASS
Channel Bandwidth& 99% OCB	FCC part 15.247 (a)(2) RSS-247 5.2(a)	PASS

Power Spectral Density	FCC part 15.247 (e) RSS-247 5.2(b)	PASS
Band Edge	FCC part 15.247(d) RSS-Gen 8.9 RSS-247 5.5	PASS
Spurious Emission	FCC part 15.205/15.209 RSS-247 5.5 RSS-Gen 8.9	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.5.Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
/	/	/	/	/

1.6.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

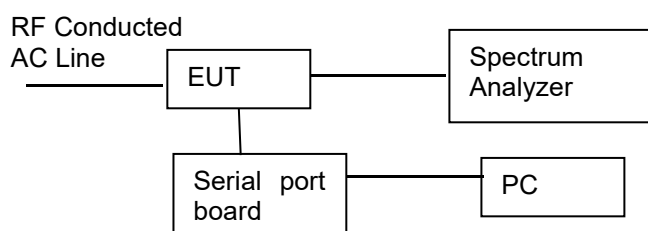
Note: Only the worst Data 1Mbps/6Mbps/6.5Mbps Record in the report

1.7.Block Diagram

Conducted Emission



Radiated Emission



1.8. Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35°C	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	AC 120V 60Hz	N/A
Note: N/A is an abbreviation for Not Applicable.		

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

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
Conducted Emissions (150kHz~30MHz)	$\pm 2.54\text{dB}$	
Radiated Emission(9KHz~30MHz)	$\pm 1.6\text{ dB}$	
Radiated Emission(30MHz~1GHz)	Vertical: $\pm 4.14\text{dB}$ Horizontal: $\pm 4.25\text{dB}$	
Radiated Emission(1GHz~6GHz)	$\pm 3.9\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.3\text{dB}$	
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°C	
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%		

1.10. Test Facility

Site Description	
Name of Firm	: Shenzhen BKC Testing Co., Ltd.
Site Location	: Room 103, 1/F, Huaya Building, Huaya Industrial Park, Longhua Community, Longhua District, Shenzhen, Guangdong, China.
ISED CAB identifier	: CN0188
ISED Company Number	: 34333
FCC Designation Number	: CN1416
FCC Test Firm Registration Number	: 701543

1.11. Test Equipment

Conducted Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	102762	Mar. 10. 2025	Mar. 09. 2026
2	EMI Test Receiver	R&S	ESCI	101424	Mar. 10. 2025	Mar. 09. 2026
3	Rf cables	HTEC	HCE 2M-CE	N/A	Mar. 10. 2025	Mar. 09. 2026
4	Coupling/ Decoupling Network	Diamond	CX210	N/A	Mar. 10. 2025	Mar. 09. 2026
5	CE Testing software	EZ	EZ-EMC	/	/	/

Radiated Test Site(Below 1G and Above 1G)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Antenna	Schwarzbeck	VULB 9168	01321	Mar. 20. 2025	Mar. 19. 2028
2	EMI Test Receiver	R&S	ESRP	101478	Mar. 10. 2025	Mar. 09. 2026
3	Preamplifier	HP	8447D	2727A05345	Mar. 10. 2025	Mar. 09. 2026
4	Double Ridged Broadband	SCHWARZBEC K	BBHA 9120D	02621	Mar. 10. 2025	Mar. 19. 2028
5	Preamplifier	Schwarzbeck	BBV 9718D	00041	Mar. 10. 2025	Mar. 09. 2026
6	Rf cables	HUBER+SUHNE R	8M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
7	Rf cables	HUBER+SUHNE R	1.5M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
8	Rf cables	HUBER+SUHNE R	1.5M-AP-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
9	Loop antenna	TESEQ	HLA6121	58357	Mar. 09. 2025	Mar. 10. 2026
10	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026
11	Double Ridged Broadband Horn Antenna	COM-POWER	AH-1840	10100009	Mar. 10. 2025	Mar. 09. 2026
12	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
13	RE Testing software	EZ	EZ-EMC	/		/

RF Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
2	Vector source	Agilent	N5182A	MY47420223	Mar. 09. 2025	Mar. 10. 2026
3	All instrument	Rohde & Schwarz	CMW 500	101131	Mar. 09. 2025	Mar. 10. 2026
4	control unit	MW	MW100-RFCB	MW200411BK -34	Mar. 09. 2025	Mar. 10. 2026
5	RF Testing software	MW	MTS 8310	/	Mar. 09. 2025	/
6	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026

Test software

Software name	RF Testing software
Software version	2.0.0.0
Software name	RE Testing software
Software version	EMEC-03A2 RE+
Software name	CE Testing software
Software version	EMEC-3A1+



2. Conducted emission at the mains terminals test

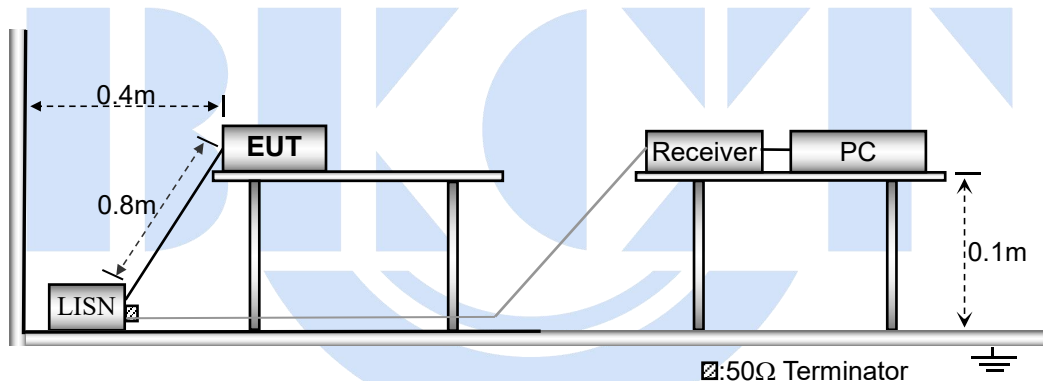
2.1.Limit

Test Requirement:	FCC Part15 C Section 15.207, RSS-Gen 8.8
Test Method:	ANSI C63.10:2020
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μV)	
	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.

2.2.Test Setup

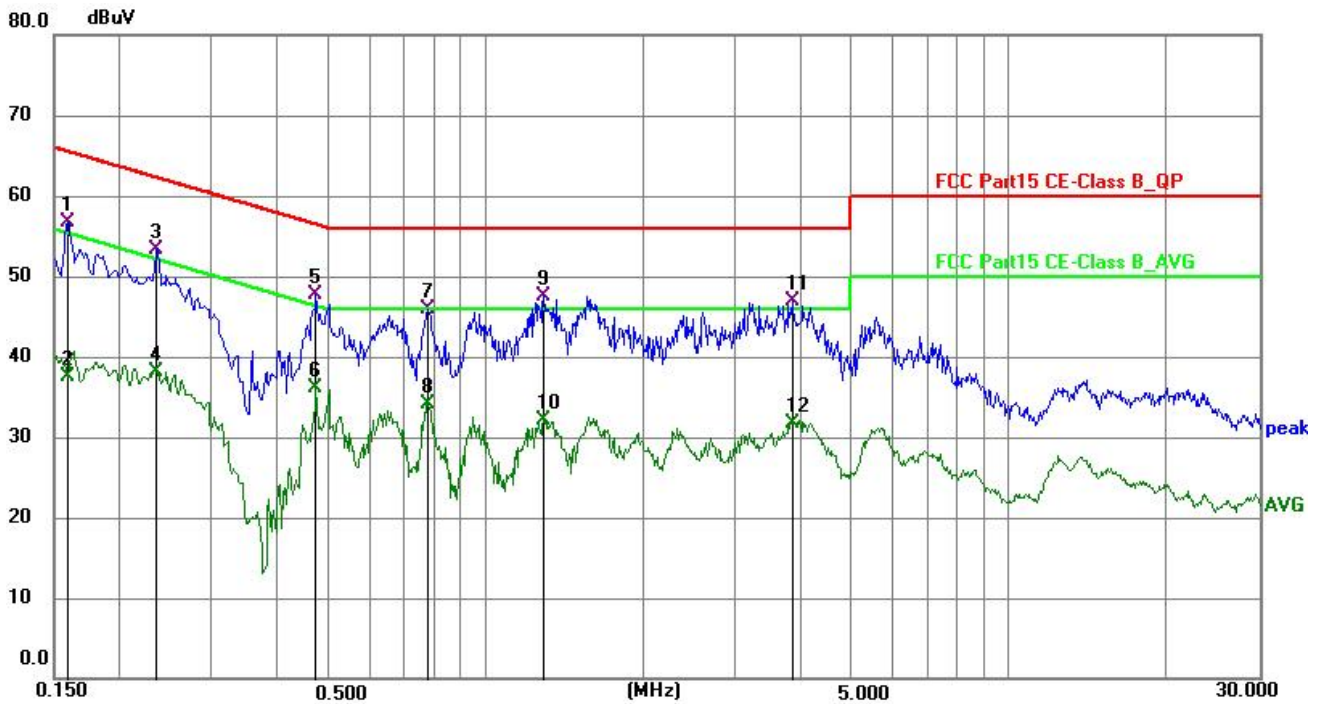


2.3.Test Procedure

1. The EUT was placed 0.1 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.

2.4. Test Result

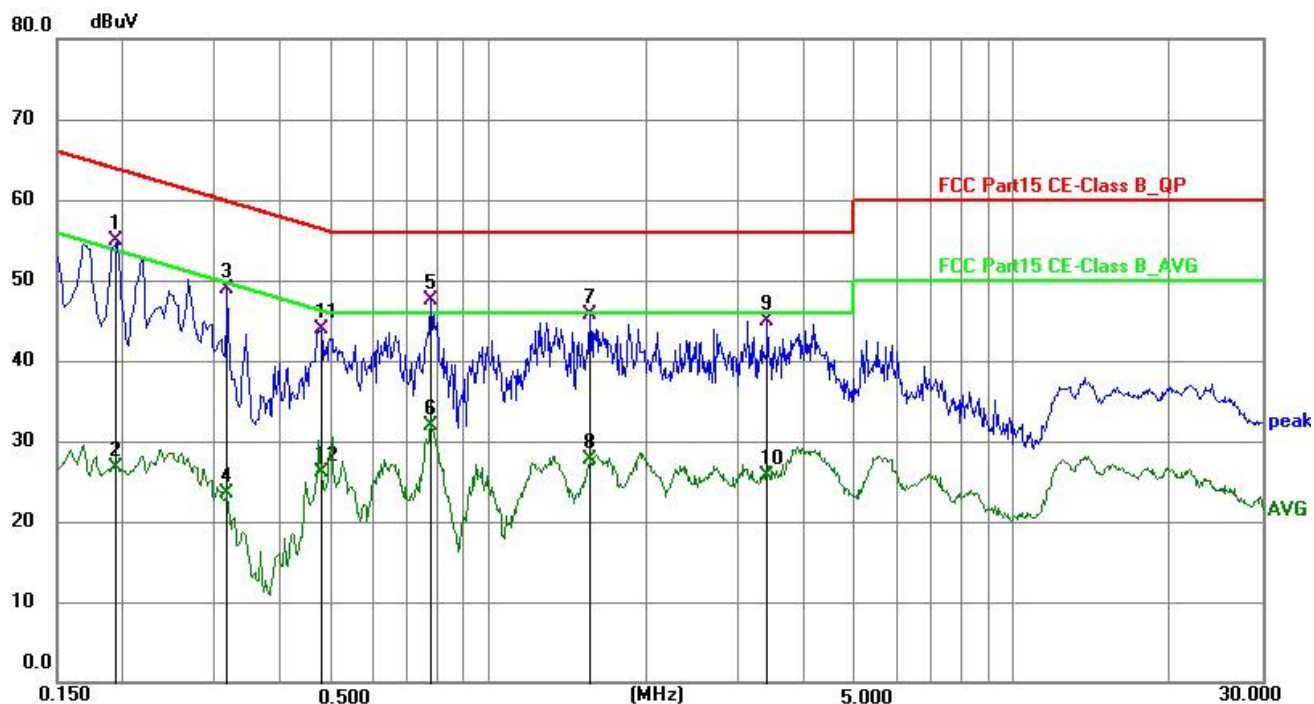
Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1590	47.22	9.55	56.77	65.52	-8.75	QP	P	
2	0.1590	27.98	9.55	37.53	55.52	-17.99	AVG	P	
3	0.2353	43.57	9.70	53.27	62.26	-8.99	QP	P	
4	0.2353	28.44	9.70	38.14	52.26	-14.12	AVG	P	
5	0.4737	38.15	9.62	47.77	56.45	-8.68	QP	P	
6	0.4737	26.55	9.62	36.17	46.45	-10.28	AVG	P	
7	0.7752	36.29	9.67	45.96	56.00	-10.04	QP	P	
8	0.7752	24.38	9.67	34.05	46.00	-11.95	AVG	P	
9 *	1.2925	37.97	9.58	47.55	56.00	-8.45	QP	P	
10	1.2925	22.61	9.58	32.19	46.00	-13.81	AVG	P	
11	3.8445	37.26	9.55	46.81	56.00	-9.19	QP	P	
12	3.8445	22.24	9.55	31.79	46.00	-14.21	AVG	P	

Conducted Emission At The Mains Terminals Test Data

Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1949	45.22	9.69	54.91	63.83	-8.92	QP	P	
2	0.1949	17.04	9.69	26.73	53.83	-27.10	AVG	P	
3	0.3165	39.18	9.67	48.85	59.80	-10.95	QP	P	
4	0.3165	13.91	9.67	23.58	49.80	-26.22	AVG	P	
5 *	0.7752	37.81	9.67	47.48	56.00	-8.52	QP	P	
6	0.7752	22.21	9.67	31.88	46.00	-14.12	AVG	P	
7	1.5671	36.10	9.63	45.73	56.00	-10.27	QP	P	
8	1.5671	18.12	9.63	27.75	46.00	-18.25	AVG	P	
9	3.4079	35.40	9.59	44.99	56.00	-11.01	QP	P	
10	3.4079	16.16	9.59	25.75	46.00	-20.25	AVG	P	
11	0.4783	34.24	9.62	43.86	56.37	-12.51	QP	P	
12	0.4783	16.49	9.62	26.11	46.37	-20.26	AVG	P	

3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247,RSS-247 5.5&RSS-Gen 8.9

Test Method: KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018;
ANSI C63.10:2020

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

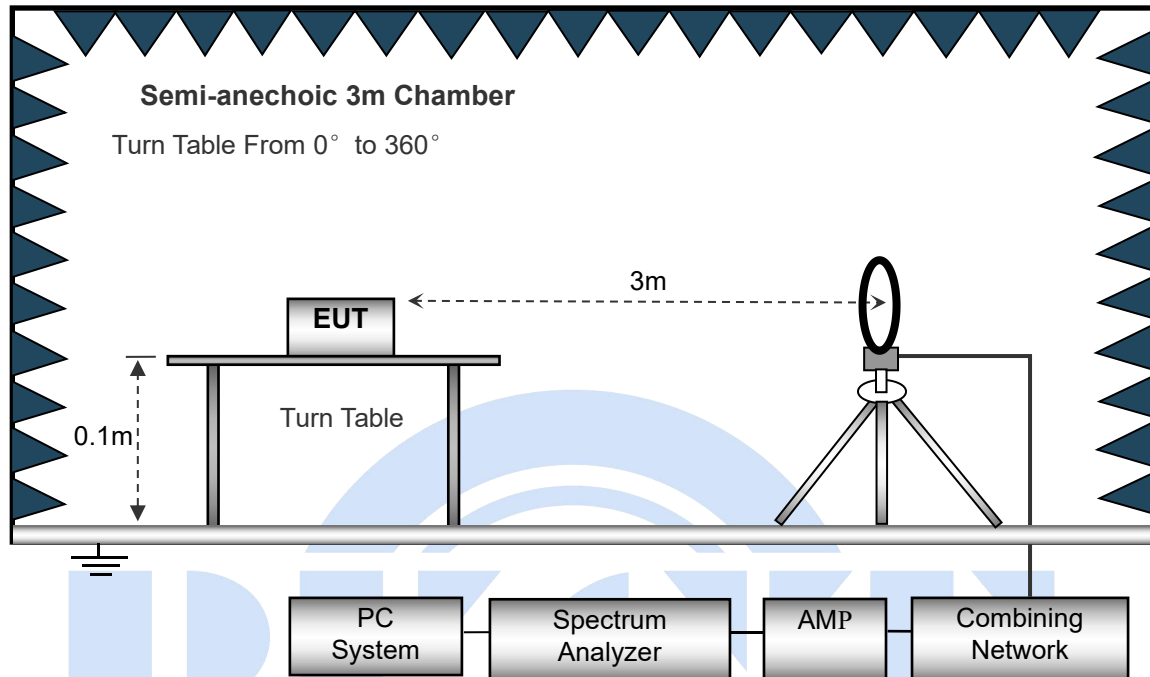
Limit:

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	$20\log(500)$

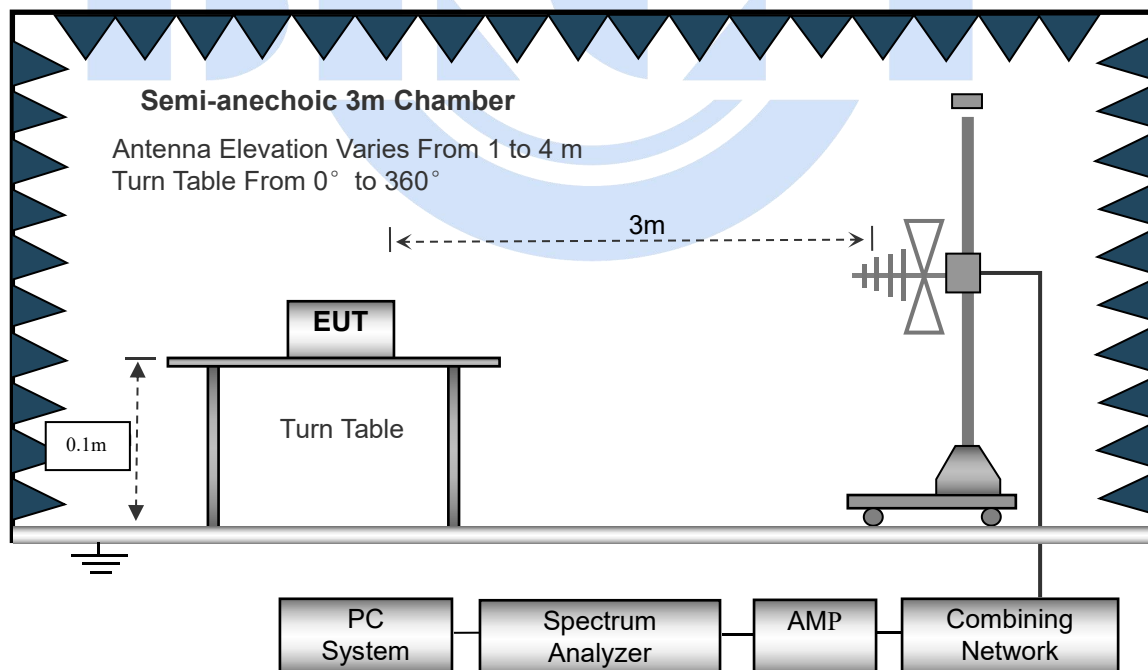
3.2. Test Setup

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

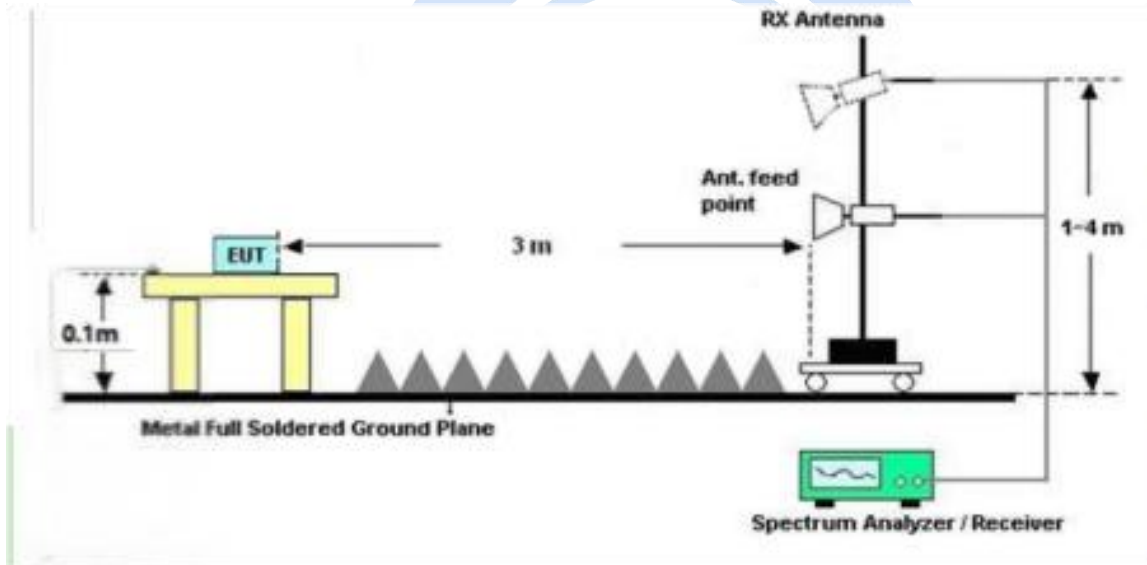
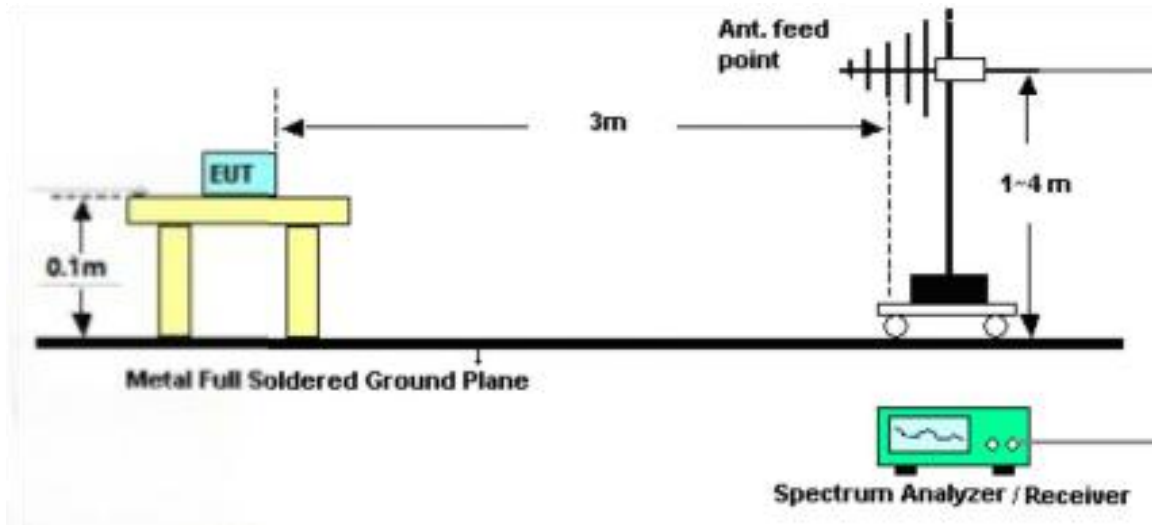
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



3.3. Test Procedure

1. The EUT is placed on a turntable, which is 0.1m above ground plane for below 1GHz and 0.1m 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.



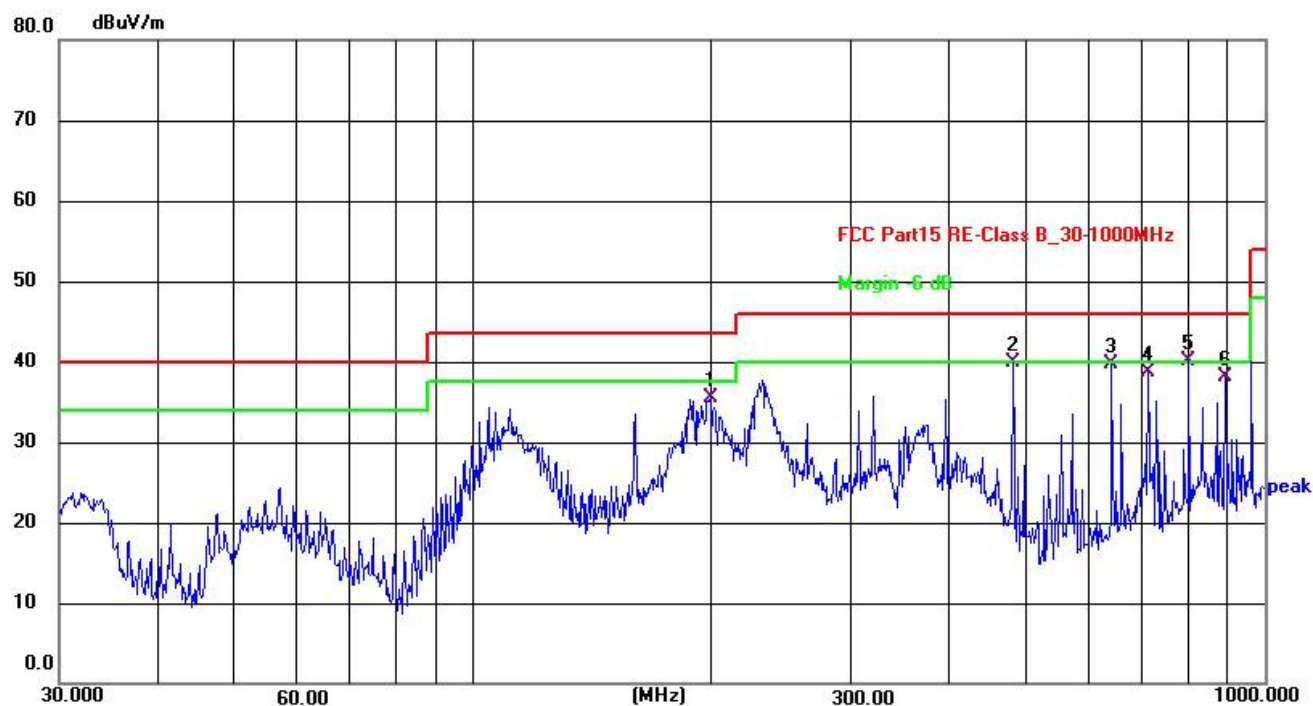
3.4. Test Result

Test Frequency: 9KHz~30MHz

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

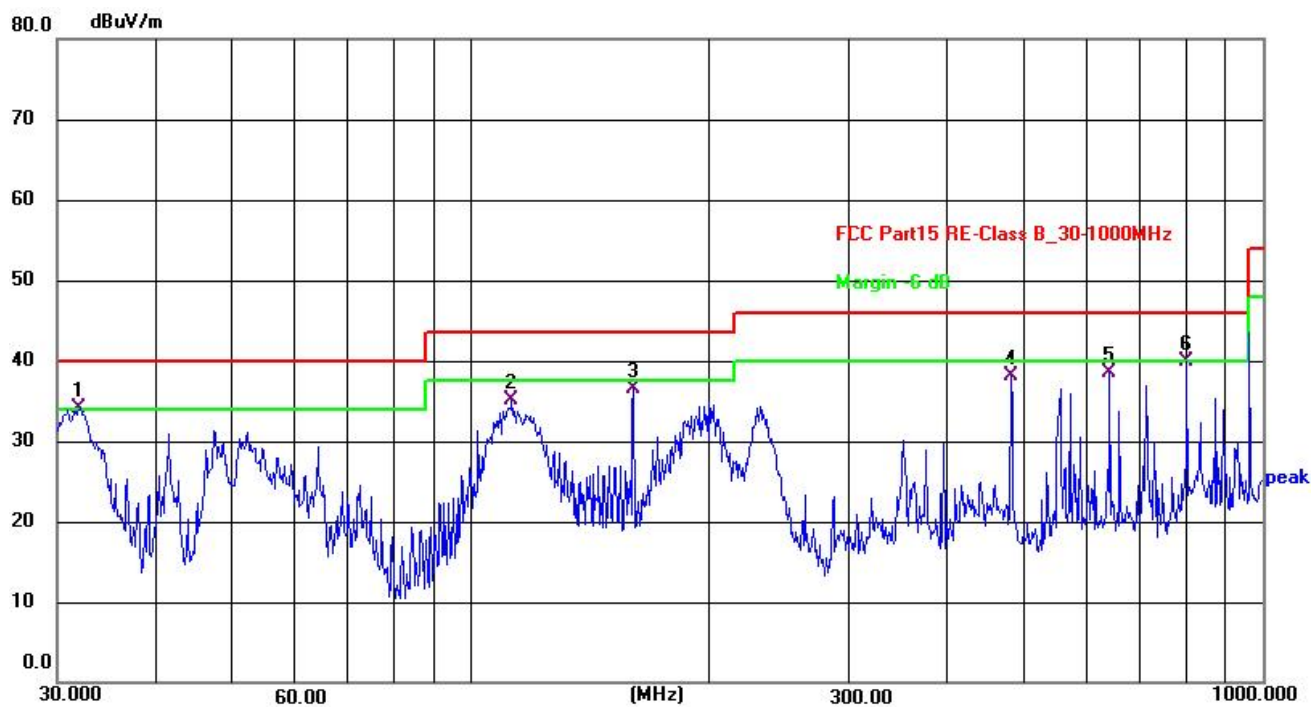
Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	199.2855	54.46	-19.03	35.43	43.50	-8.07	QP
2	480.5276	51.21	-11.26	39.95	46.00	-6.05	QP
3	640.6110	47.63	-7.96	39.67	46.00	-6.33	QP
4	711.6734	45.18	-6.50	38.68	46.00	-7.32	QP
5 *	801.7862	44.47	-4.40	40.07	46.00	-5.93	QP
6	890.7277	41.93	-3.74	38.19	46.00	-7.81	QP

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	32.0667	51.16	-17.05	34.11	40.00	-5.89	QP
2	112.5242	53.94	-18.79	35.15	43.50	-8.35	QP
3	160.3455	52.43	-15.96	36.47	43.50	-7.03	QP
4	480.5276	49.43	-11.26	38.17	46.00	-7.83	QP
5	640.6110	46.43	-7.96	38.47	46.00	-7.53	QP
6	801.7862	44.31	-4.40	39.91	46.00	-6.09	QP

1GHz~12.75GHz

802.11b

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
Low Channel:2412MHz									
V	4824.00	54.15	30.55	5.77	24.66	54.03	74.00	-19.97	Pk
V	4824.00	43.06	30.55	5.77	24.66	42.94	54.00	-11.06	AV
V	7236.00	50.05	30.33	6.32	24.55	50.59	74.00	-23.41	Pk
V	7236.00	43.90	30.33	6.32	24.55	44.44	54.00	-9.56	AV
V	9648.00	52.66	30.85	7.45	24.69	53.95	74.00	-20.05	Pk
V	9648.00	43.64	30.85	7.45	24.69	44.93	54.00	-9.07	AV
V	12060.00	52.08	31.02	8.99	25.57	55.62	74.00	-18.38	Pk
V	12060.00	43.72	31.02	8.99	25.57	47.26	54.00	-6.74	AV
H	4824.00	53.60	30.55	5.77	24.66	53.48	74.00	-20.52	Pk
H	4824.00	43.08	30.55	5.77	24.66	42.96	54.00	-11.04	AV
H	7236.00	53.79	30.33	6.32	24.55	54.33	74.00	-19.67	Pk
H	7236.00	43.51	30.33	6.32	24.55	44.05	54.00	-9.95	AV
H	9648.00	52.67	30.85	7.45	24.69	53.96	74.00	-20.04	Pk
H	9648.00	43.79	30.85	7.45	24.69	45.08	54.00	-8.92	AV
H	12060.00	50.93	31.02	8.99	25.57	54.47	74.00	-19.53	Pk
H	12060.00	43.40	31.02	8.99	25.57	46.94	54.00	-7.06	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
Middle Channel:2437MHz									
V	4874.00	52.32	30.55	5.77	24.66	52.20	74.00	-21.80	Pk
V	4874.00	43.80	30.55	5.77	24.66	43.68	54.00	-10.32	AV
V	7311.00	51.24	30.33	6.32	24.55	51.78	74.00	-22.22	Pk
V	7311.00	43.28	30.33	6.32	24.55	43.82	54.00	-10.18	AV
V	9748.00	54.65	30.85	7.45	24.69	55.94	74.00	-18.06	Pk
V	9748.00	43.59	30.85	7.45	24.69	44.88	54.00	-9.12	AV
V	12185.00	51.59	31.02	8.99	25.57	55.13	74.00	-18.87	Pk
V	12185.00	43.55	31.02	8.99	25.57	47.09	54.00	-6.91	AV
H	4874.00	50.89	30.55	5.77	24.66	50.77	74.00	-23.23	Pk



H	4874.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
H	7311.00	53.09	30.33	6.32	24.55	53.63	74.00	-20.37	Pk
H	7311.00	43.03	30.33	6.32	24.55	43.57	54.00	-10.43	AV
H	9748.00	52.33	30.85	7.45	24.69	53.62	74.00	-20.38	Pk
H	9748.00	43.09	30.85	7.45	24.69	44.38	54.00	-9.62	AV
H	12185.00	51.12	31.02	8.99	25.57	54.66	74.00	-19.34	Pk
H	12185.00	43.71	31.02	8.99	25.57	47.25	54.00	-6.75	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	51.09	30.55	5.77	24.66	50.97	74.00	-23.03	Pk
V	4924.00	43.55	30.55	5.77	24.66	43.43	54.00	-10.57	AV
V	7386.00	54.88	30.33	6.32	24.55	55.42	74.00	-18.58	Pk
V	7386.00	43.98	30.33	6.32	24.55	44.52	54.00	-9.48	AV
V	9848.00	53.08	30.85	7.45	24.69	54.37	74.00	-19.63	Pk
V	9848.00	43.37	30.85	7.45	24.69	44.66	54.00	-9.34	AV
V	12310.00	50.75	31.02	8.99	25.57	54.29	74.00	-19.71	Pk
V	12310.00	43.34	31.02	8.99	25.57	46.88	54.00	-7.12	AV
H	4924.00	50.57	30.55	5.77	24.66	50.45	74.00	-23.55	Pk
H	4924.00	43.34	30.55	5.77	24.66	43.22	54.00	-10.78	AV
H	7386.00	53.84	30.33	6.32	24.55	54.38	74.00	-19.62	Pk
H	7386.00	43.11	30.33	6.32	24.55	43.65	54.00	-10.35	AV
H	9848.00	52.11	30.85	7.45	24.69	53.40	74.00	-20.60	Pk
H	9848.00	43.81	30.85	7.45	24.69	45.10	54.00	-8.90	AV
H	12310.00	52.83	31.02	8.99	25.57	56.37	74.00	-17.63	Pk
H	12310.00	43.08	31.02	8.99	25.57	46.62	54.00	-7.38	AV

802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Low Channel:2412MHz									
V	4824.00	50.17	30.55	5.77	24.66	50.05	74.00	-23.95	Pk
V	4824.00	43.70	30.55	5.77	24.66	43.58	54.00	-10.42	AV
V	7236.00	51.88	30.33	6.32	24.55	52.42	74.00	-21.58	Pk
V	7236.00	43.08	30.33	6.32	24.55	43.62	54.00	-10.38	AV
V	9648.00	50.97	30.85	7.45	24.69	52.26	74.00	-21.74	Pk
V	9648.00	43.90	30.85	7.45	24.69	45.19	54.00	-8.81	AV
V	12060.00	54.21	31.02	8.99	25.57	57.75	74.00	-16.25	Pk
V	12060.00	43.30	31.02	8.99	25.57	46.84	54.00	-7.16	AV
H	4824.00	54.64	30.55	5.77	24.66	54.52	74.00	-19.48	Pk
H	4824.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
H	7236.00	52.29	30.33	6.32	24.55	52.83	74.00	-21.17	Pk
H	7236.00	43.77	30.33	6.32	24.55	44.31	54.00	-9.69	AV
H	9648.00	53.52	30.85	7.45	24.69	54.81	74.00	-19.19	Pk
H	9648.00	43.76	30.85	7.45	24.69	45.05	54.00	-8.95	AV
H	12060.00	53.42	31.02	8.99	25.57	56.96	74.00	-17.04	Pk
H	12060.00	43.51	31.02	8.99	25.57	47.05	54.00	-6.95	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Middle Channel:2437MHz									
V	4874.00	51.91	30.55	5.77	24.66	51.79	74.00	-22.21	Pk
V	4874.00	43.79	30.55	5.77	24.66	43.67	54.00	-10.33	AV
V	7311.00	50.79	30.33	6.32	24.55	51.33	74.00	-22.67	Pk
V	7311.00	43.30	30.33	6.32	24.55	43.84	54.00	-10.16	AV
V	9748.00	50.99	30.85	7.45	24.69	52.28	74.00	-21.72	Pk
V	9748.00	43.78	30.85	7.45	24.69	45.07	54.00	-8.93	AV
V	12185.00	51.95	31.02	8.99	25.57	55.49	74.00	-18.51	Pk
V	12185.00	43.42	31.02	8.99	25.57	46.96	54.00	-7.04	AV
H	4874.00	52.47	30.55	5.77	24.66	52.35	74.00	-21.65	Pk
H	4874.00	43.63	30.55	5.77	24.66	43.51	54.00	-10.49	AV



H	7311.00	53.56	30.33	6.32	24.55	54.10	74.00	-19.90	Pk
H	7311.00	43.06	30.33	6.32	24.55	43.60	54.00	-10.40	AV
H	9748.00	54.17	30.85	7.45	24.69	55.46	74.00	-18.54	Pk
H	9748.00	43.72	30.85	7.45	24.69	45.01	54.00	-8.99	AV
H	12185.00	54.46	31.02	8.99	25.57	58.00	74.00	-16.00	Pk
H	12185.00	43.21	31.02	8.99	25.57	46.75	54.00	-7.25	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	54.99	30.55	5.77	24.66	54.87	74.00	-19.13	Pk
V	4924.00	43.83	30.55	5.77	24.66	43.71	54.00	-10.29	AV
V	7386.00	54.01	30.33	6.32	24.55	54.55	74.00	-19.45	Pk
V	7386.00	43.05	30.33	6.32	24.55	43.59	54.00	-10.41	AV
V	9848.00	52.46	30.85	7.45	24.69	53.75	74.00	-20.25	Pk
V	9848.00	43.23	30.85	7.45	24.69	44.52	54.00	-9.48	AV
V	12310.00	54.35	31.02	8.99	25.57	57.89	74.00	-16.11	Pk
V	12310.00	43.92	31.02	8.99	25.57	47.46	54.00	-6.54	AV
H	4924.00	54.44	30.55	5.77	24.66	54.32	74.00	-19.68	Pk
H	4924.00	43.53	30.55	5.77	24.66	43.41	54.00	-10.59	AV
H	7386.00	53.66	30.33	6.32	24.55	54.20	74.00	-19.80	Pk
H	7386.00	43.53	30.33	6.32	24.55	44.07	54.00	-9.93	AV
H	9848.00	51.76	30.85	7.45	24.69	53.05	74.00	-20.95	Pk
H	9848.00	43.84	30.85	7.45	24.69	45.13	54.00	-8.87	AV
H	12310.00	54.65	31.02	8.99	25.57	58.19	74.00	-15.81	Pk
H	12310.00	43.08	31.02	8.99	25.57	46.62	54.00	-7.38	AV

802.11n20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Low Channel:2412MHz									
V	4824.00	30.55	5.77	24.66	53.79	74.00	-20.21	30.55	Pk
V	4824.00	30.55	5.77	24.66	43.38	54.00	-10.62	30.55	AV
V	7236.00	30.33	6.32	24.55	52.17	74.00	-21.83	30.33	Pk
V	7236.00	30.33	6.32	24.55	43.68	54.00	-10.32	30.33	AV
V	9648.00	30.85	7.45	24.69	51.36	74.00	-22.64	30.85	Pk
V	9648.00	30.85	7.45	24.69	44.58	54.00	-9.42	30.85	AV
V	12060.00	31.02	8.99	25.57	54.75	74.00	-19.25	31.02	Pk
V	12060.00	31.02	8.99	25.57	46.67	54.00	-7.33	31.02	AV
H	4824.00	30.55	5.77	24.66	53.63	74.00	-20.37	30.55	Pk
H	4824.00	30.55	5.77	24.66	43.71	54.00	-10.29	30.55	AV
H	7236.00	30.33	6.32	24.55	52.10	74.00	-21.90	30.33	Pk
H	7236.00	30.33	6.32	24.55	44.40	54.00	-9.60	30.33	AV
H	9648.00	30.85	7.45	24.69	51.87	74.00	-22.13	30.85	Pk
H	9648.00	30.85	7.45	24.69	45.27	54.00	-8.73	30.85	AV
H	12060.00	31.02	8.99	25.57	55.11	74.00	-18.89	31.02	Pk
H	12060.00	31.02	8.99	25.57	47.00	54.00	-7.00	31.02	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Middle Channel:2437MHz									
V	4874.00	50.05	30.55	5.77	24.66	49.93	74.00	-24.07	Pk
V	4874.00	43.15	30.55	5.77	24.66	43.03	54.00	-10.97	AV
V	7311.00	52.25	30.33	6.32	24.55	52.79	74.00	-21.21	Pk
V	7311.00	43.30	30.33	6.32	24.55	43.84	54.00	-10.16	AV
V	9748.00	54.37	30.85	7.45	24.69	55.66	74.00	-18.34	Pk
V	9748.00	43.77	30.85	7.45	24.69	45.06	54.00	-8.94	AV
V	12185.00	54.99	31.02	8.99	25.57	58.53	74.00	-15.47	Pk
V	12185.00	43.46	31.02	8.99	25.57	47.00	54.00	-7.00	AV
H	4874.00	51.94	30.55	5.77	24.66	51.82	74.00	-22.18	Pk
H	4874.00	43.09	30.55	5.77	24.66	42.97	54.00	-11.03	AV



H	7311.00	52.81	30.33	6.32	24.55	53.35	74.00	-20.65	Pk
H	7311.00	43.57	30.33	6.32	24.55	44.11	54.00	-9.89	AV
H	9748.00	52.46	30.85	7.45	24.69	53.75	74.00	-20.25	Pk
H	9748.00	43.00	30.85	7.45	24.69	44.29	54.00	-9.71	AV
H	12185.00	54.05	31.02	8.99	25.57	57.59	74.00	-16.41	Pk
H	12185.00	43.15	31.02	8.99	25.57	46.69	54.00	-7.31	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	50.57	30.55	5.77	24.66	50.45	74.00	-23.55	Pk
V	4924.00	43.76	30.55	5.77	24.66	43.64	54.00	-10.36	AV
V	7386.00	52.67	30.33	6.32	24.55	53.21	74.00	-20.79	Pk
V	7386.00	43.57	30.33	6.32	24.55	44.11	54.00	-9.89	AV
V	9848.00	54.89	30.85	7.45	24.69	56.18	74.00	-17.82	Pk
V	9848.00	43.44	30.85	7.45	24.69	44.73	54.00	-9.27	AV
V	12310.00	50.91	31.02	8.99	25.57	54.45	74.00	-19.55	Pk
V	12310.00	43.05	31.02	8.99	25.57	46.59	54.00	-7.41	AV
H	4924.00	53.26	30.55	5.77	24.66	53.14	74.00	-20.86	Pk
H	4924.00	43.79	30.55	5.77	24.66	43.67	54.00	-10.33	AV
H	7386.00	51.39	30.33	6.32	24.55	51.93	74.00	-22.07	Pk
H	7386.00	43.62	30.33	6.32	24.55	44.16	54.00	-9.84	AV
H	9848.00	53.42	30.85	7.45	24.69	54.71	74.00	-19.29	Pk
H	9848.00	43.98	30.85	7.45	24.69	45.27	54.00	-8.73	AV
H	12310.00	51.22	31.02	8.99	25.57	54.76	74.00	-19.24	Pk
H	12310.00	43.95	31.02	8.99	25.57	47.49	54.00	-6.51	AV

802.11n40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Low Channel:2422MHz									
V	4844.00	30.55	5.77	24.66	53.69	74.00	-20.31	30.55	Pk
V	4844.00	30.55	5.77	24.66	43.15	54.00	-10.85	30.55	AV
V	7266.00	30.33	6.32	24.55	52.28	74.00	-21.72	30.33	Pk
V	7266.00	30.33	6.32	24.55	43.99	54.00	-10.01	30.33	AV
V	9688.00	30.85	7.45	24.69	51.82	74.00	-22.18	30.85	Pk
V	9688.00	30.85	7.45	24.69	44.33	54.00	-9.67	30.85	AV
V	12110.00	31.02	8.99	25.57	54.41	74.00	-19.59	31.02	Pk
V	12110.00	31.02	8.99	25.57	46.75	54.00	-7.25	31.02	AV
H	4844.00	30.55	5.77	24.66	49.95	74.00	-24.05	30.55	Pk
H	4844.00	30.55	5.77	24.66	43.19	54.00	-10.81	30.55	AV
H	7266.00	30.33	6.32	24.55	51.77	74.00	-22.23	30.33	Pk
H	7266.00	30.33	6.32	24.55	44.16	54.00	-9.84	30.33	AV
H	9688.00	30.85	7.45	24.69	51.29	74.00	-22.71	30.85	Pk
H	9688.00	30.85	7.45	24.69	44.48	54.00	-9.52	30.85	AV
H	12110.00	31.02	8.99	25.57	55.04	74.00	-18.96	31.02	Pk
H	12110.00	31.02	8.99	25.57	47.28	54.00	-6.72	31.02	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Middle Channel:2437MHz									
V	4874.00	50.40	30.55	5.77	24.66	52.23	74.00	-21.77	Pk
V	4874.00	43.06	30.55	5.77	24.66	43.48	54.00	-10.52	AV
V	7311.00	54.50	30.33	6.32	24.55	54.16	74.00	-19.84	Pk
V	7311.00	43.21	30.33	6.32	24.55	43.66	54.00	-10.34	AV
V	9748.00	54.95	30.85	7.45	24.69	53.63	74.00	-20.37	Pk
V	9748.00	43.12	30.85	7.45	24.69	44.52	54.00	-9.48	AV
V	12185.00	53.95	31.02	8.99	25.57	56.82	74.00	-17.18	Pk
V	12185.00	43.18	31.02	8.99	25.57	47.86	54.00	-6.14	AV
H	4874.00	52.09	30.55	5.77	24.66	53.14	74.00	-20.86	Pk
H	4874.00	43.71	30.55	5.77	24.66	43.13	54.00	-10.87	AV

H	7311.00	52.96	30.33	6.32	24.55	52.82	74.00	-21.18	Pk
H	7311.00	43.76	30.33	6.32	24.55	43.19	54.00	-10.81	AV
H	9748.00	51.54	30.85	7.45	24.69	54.46	74.00	-19.54	Pk
H	9748.00	43.96	30.85	7.45	24.69	44.82	54.00	-9.18	AV
H	12185.00	50.49	31.02	8.99	25.57	54.88	74.00	-19.12	Pk
H	12185.00	43.69	31.02	8.99	25.57	45.75	54.00	-8.25	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	50.30	30.55	5.77	24.66	52.23	74.00	-21.77	Pk
V	4904.00	43.37	30.55	5.77	24.66	43.48	54.00	-10.52	AV
V	7356.00	53.32	30.33	6.32	24.55	54.16	74.00	-19.84	Pk
V	7356.00	43.59	30.33	6.32	24.55	43.66	54.00	-10.34	AV
V	9808.00	50.42	30.85	7.45	24.69	53.63	74.00	-20.37	Pk
V	9808.00	43.73	30.85	7.45	24.69	44.52	54.00	-9.48	AV
V	12260.00	51.94	31.02	8.99	25.57	56.82	74.00	-17.18	Pk
V	12260.00	43.11	31.02	8.99	25.57	47.86	54.00	-6.14	AV
H	4904.00	52.31	30.55	5.77	24.66	53.14	74.00	-20.86	Pk
H	4904.00	43.97	30.55	5.77	24.66	43.13	54.00	-10.87	AV
H	7356.00	51.33	30.33	6.32	24.55	52.82	74.00	-21.18	Pk
H	7356.00	43.24	30.33	6.32	24.55	43.19	54.00	-10.81	AV
H	9808.00	52.16	30.85	7.45	24.69	54.46	74.00	-19.54	Pk
H	9808.00	43.88	30.85	7.45	24.69	44.82	54.00	-9.18	AV
H	12260.00	53.03	31.02	8.99	25.57	54.88	74.00	-19.12	Pk
H	12260.00	43.75	31.02	8.99	25.57	45.75	54.00	-8.25	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.

Radiated Band Emission Measurement:

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/ m)	Margin (dB)	Detector Type
802.11b	Low Channel 2412MHz									
	H	2390.00	53.38	30.22	4.85	23.98	51.99	74.00	-22.01	Pk
	H	2390.00	44.69	30.22	4.85	23.98	43.30	54.00	-10.70	AV
	H	2400.00	54.77	30.22	4.85	23.98	53.38	74.00	-20.62	Pk
	H	2400.00	44.90	30.22	4.85	23.98	43.51	54.00	-10.49	AV
	V	2390.00	53.00	30.22	4.85	23.98	51.61	74.00	-22.39	Pk
	V	2390.00	44.89	30.22	4.85	23.98	43.50	54.00	-10.50	AV
	V	2400.00	54.15	30.22	4.85	23.98	52.76	74.00	-21.24	Pk
	V	2400.00	44.19	30.22	4.85	23.98	42.80	54.00	-11.20	AV
	High Channel 2462MHz									
	H	2483.50	54.06	30.22	4.85	23.98	52.67	74.00	-21.33	Pk
	H	2483.50	44.61	30.22	4.85	23.98	43.22	54.00	-10.78	AV
	H	2500.00	53.49	30.22	4.85	23.98	52.10	74.00	-21.90	Pk
	H	2500.00	44.75	30.22	4.85	23.98	43.36	54.00	-10.64	AV
	V	2483.50	53.59	30.22	4.85	23.98	52.20	74.00	-21.80	Pk
	V	2483.50	44.12	30.22	4.85	23.98	42.73	54.00	-11.27	AV
	V	2500.00	54.67	30.22	4.85	23.98	53.28	74.00	-20.72	Pk
	V	2500.00	44.39	30.22	4.85	23.98	43.00	54.00	-11.00	AV
802.11g	Low Channel 2412MHz									
	H	2390.00	53.53	30.22	4.85	23.98	52.14	74.00	-21.86	Pk
	H	2390.00	44.00	30.22	4.85	23.98	42.61	54.00	-11.39	AV
	H	2400.00	54.95	30.22	4.85	23.98	53.56	74.00	-20.44	Pk
	H	2400.00	44.75	30.22	4.85	23.98	43.36	54.00	-10.64	AV
	V	2390.00	54.30	30.22	4.85	23.98	52.91	74.00	-21.09	Pk
	V	2390.00	44.50	30.22	4.85	23.98	43.11	54.00	-10.89	AV
	V	2400.00	54.89	30.22	4.85	23.98	53.50	74.00	-20.50	Pk
	V	2400.00	44.92	30.22	4.85	23.98	43.53	54.00	-10.47	AV
	High Channel 2462MHz									
	H	2483.50	54.01	30.22	4.85	23.98	52.62	74.00	-21.38	Pk
	H	2483.50	44.44	30.22	4.85	23.98	43.05	54.00	-10.95	AV
	H	2500.00	53.48	30.22	4.85	23.98	52.09	74.00	-21.91	Pk
	H	2500.00	44.70	30.22	4.85	23.98	43.31	54.00	-10.69	AV

	V	2483.50	53.05	30.22	4.85	23.98	51.66	74.00	-22.34	Pk
	V	2483.50	44.42	30.22	4.85	23.98	43.03	54.00	-10.97	AV
	V	2500.00	54.72	30.22	4.85	23.98	53.33	74.00	-20.67	Pk
	V	2500.00	44.63	30.22	4.85	23.98	43.24	54.00	-10.76	AV
802.11 n20	Low Channel 2412MHz									
	H	2390.00	53.00	30.22	4.85	23.98	51.61	74.00	-22.39	Pk
	H	2390.00	44.92	30.22	4.85	23.98	43.53	54.00	-10.47	AV
	H	2400.00	53.87	30.22	4.85	23.98	52.48	74.00	-21.52	Pk
	H	2400.00	44.74	30.22	4.85	23.98	43.35	54.00	-10.65	AV
	V	2390.00	53.97	30.22	4.85	23.98	52.58	74.00	-21.42	Pk
	V	2390.00	44.63	30.22	4.85	23.98	43.24	54.00	-10.76	AV
	V	2400.00	54.03	30.22	4.85	23.98	52.64	74.00	-21.36	Pk
	V	2400.00	44.98	30.22	4.85	23.98	43.59	54.00	-10.41	AV
	High Channel 2462MHz									
	H	2483.50	53.37	30.22	4.85	23.98	51.98	74.00	-22.02	Pk
	H	2483.50	44.98	30.22	4.85	23.98	43.59	54.00	-10.41	AV
	H	2500.00	53.87	30.22	4.85	23.98	52.48	74.00	-21.52	Pk
	H	2500.00	44.56	30.22	4.85	23.98	43.17	54.00	-10.83	AV
	V	2483.50	54.47	30.22	4.85	23.98	53.08	74.00	-20.92	Pk
	V	2483.50	44.46	30.22	4.85	23.98	43.07	54.00	-10.93	AV
	V	2500.00	54.46	30.22	4.85	23.98	53.07	74.00	-20.93	Pk
	V	2500.00	44.86	30.22	4.85	23.98	43.47	54.00	-10.53	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.										

4. Conducted Spurious Emissions

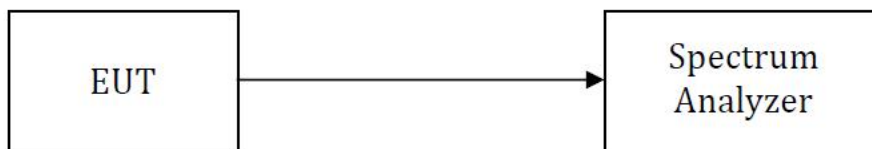
4.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247,RSS-247 5.5
Test Method: KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018;
ANSI C63.10:2020
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)).

4.2.Test Setup



4.3.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 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 _ [3 × RBW].
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - 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.

4.4.Test Result

Please see the attachment for 2.4GWIFI data.

5. Band Edge Measurement

5.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247,RSS-Gen 8.9&RSS-247 5.5

Test Method: KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018;

ANSI C63.10:2020

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

5.2.Test setup



5.3.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 to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
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.

5.4.Test Result

Please see the attachment for 2.4GWIFI data.

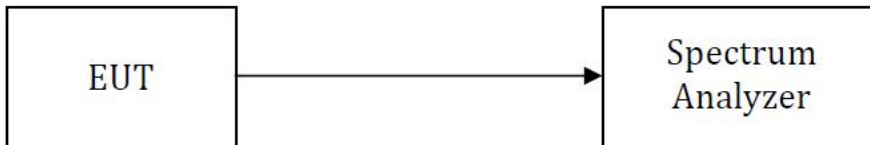
6. -6 dB Bandwidth and 99% Bandwidth Measurement

6.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247,RSS-247 5.2(a)

Test Method: KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018; ANSI C63.10:2020

6.2.Test Setup



6.3.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: RBW = 100kHz, VBW = 300kHz

6.4.Test Result

Please see the attachment for 2.4GWIFI data.



7. Maximum Output Power& E.I.R.P

7.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247,RSS-247 5.4(d)

Test Method: KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018;
ANSI C63.10:2020

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

7.2.Test Setup



7.3.Test Procedure

KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018

section 8.3.1.1 (For BLE)

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW ≥ 3 RBW.
- Set span $\geq 3 \times$ RBW
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

section 8.3.1.2 (For WIFI)

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

- Set the RBW = 1% to 5% of the OBW, not to exceed 1 MHz..
- Set the VBW $\geq 3 \times$ RBW
- Set the span $\geq 1.5 \times$ OBW.
- Detector = RMS.
- Sweep time = auto couple.
- trigger = free run..
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\geq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Trace average at least 100 traces in power averaging (rms) mode.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

7.4. Test Result

Test plot Please see the attachment for 2.4GWIFI data.



8. Power Spectral density

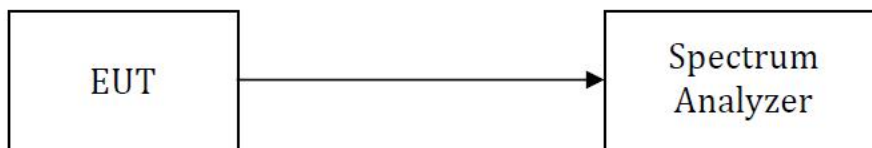
8.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247,RSS-247 5.2(b)

Test Method: KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018; ANSI C63.10:2020

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

8.2.Test Setup



8.3.Test Procedure

KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017 section 10.2

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 instrument center frequency to DTS channel center frequency.
 - b) Set span to > 1.5 times the OBW.
 - c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d) Set VBW $\geq [3 * \text{RBW}]$.
 - e) Detector = power averaging (rms) or sample detector (when rms not available).
 - f) Ensure that the number of measurement points in the sweep $\geq [2 * \text{span} / \text{RBW}]$.
 - g) Sweep time = auto couple.
 - h) Employ trace averaging (rms) mode over a minimum of 100 traces.
 - i) Use the peak marker function to determine the maximum amplitude level.
 - j) 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).
3. 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.

8.4.Test Result

Please see the attachment for 2.4GWIFI data.

9. 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.

According to the RSS-Gen Section 7.1.2, 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 PCB antenna, and the maximum antenna gain is 0.81dBi, fulfill the requirement of this section.



10. Test Photographs

Please see the attachment for Test Photographs.

Appendix I: Photos of the EUT

Please see the attachment

***** END OF REPORT *****