



FCC Part 15C Test Report

FCC ID: 2BE3V-Q9

Applicant: Shenzhen Peicheng Technology Co.,Ltd

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Manufacturer: Shenzhen Peicheng Technology Co.,Ltd

Address: 5th Floor, Building 64, Baotian Industrial Zone, Chentian Community, Xixiang Street, Baoan District, Shenzhen City, China

Product Name: Tablet PC

Trade Mark: N/A

Model Number: Q9

Date of Receipt: Jan. 09, 2026

Test Date: Jan. 09, 2026 - Jan. 22, 2026

Date of Report: Jan. 22, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 C 15.247
ANSI C63.10:2020

Test Result: Pass

Report Number: DLE-260109040R

Prepared (Test Engineer): Alisa Song

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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**1.. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.205, 15.209, 15.247(d)	Radiated Spurious Emission	PASS	
15.205, 15.209	Conducted Spurious Emissions	PASS	
15.247(d)	Band Edge Emission	PASS	
15.247(b)	Average Output Power	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

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

Test lab: Shenzhen DL Testing Technology Co., Ltd.

101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1

Address: Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

The test results presented in this report relate only to the object tested.

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FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

1.1. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.56\text{dB}$
2	RF power,conducted	$\pm 0.42\text{dB}$
3	Spurious emissions,conducted	$\pm 2.76\text{dB}$
4	All emissions,radiated(<1G)	$\pm 3.65\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$
8	6dB Bandwidth	$\pm 0.2\text{MHz}$
9	Power Spectral Density	$\pm 0.42\text{dB}$
10	Duty Cycle	$\pm 0.39\text{dB}$



2.. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

Product Name:	Tablet PC
Trade Mark:	N/A
Model Number:	Q9
Test Model:	Q9
Model Difference:	N/A
Operation Frequency:	802.11b/g/n/ax(20MHz): 2412~2462 MHz 802.11n/ax(40MHz):2422~2452MHz
Channel numbers:	802.11b/g/n/ax: 11CH 802.11n/ax: 7CH
Channel separation:	5MHz
Modulation technology:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ax(OFDM): BPSK,QPSK,16-QAM,64-QAM, 256-QAM
Rate of Transmitter	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n/ax: up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.51 dBi
Power Supply:	DC 5V from charger DC 3.8V from battery

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The EUT's all information provided by client.
- 3.The product supports only the SU mode.

2. Channel List(802.11b/g/n/axHT20)

Channel	Frequency (GHz)	Channel	Frequency (GHz)
01	2.412	07	2.442
02	2.417	08	2.447
03	2.422	09	2.452
04	2.427	10	2.457
05	2.432	11	2.462
06	2.437		

Channel List(802.11n/axHT40)

Channel	Frequency (GHz)	Channel	Frequency (GHz)
03	2.422	07	2.442
04	2.427	08	2.447
05	2.432	09	2.452
06	2.437		



2.2. DESCRIPTION OF TEST MODES

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

Pretest Mode	Modulation	Channel
Mode 1	802.11b	CH01
Mode 2		CH06
Mode 3		CH11
Mode 4	802.11g	CH01
Mode 5		CH06
Mode 6		CH11
Mode 7	802.11nHT20	CH01
Mode 8		CH06
Mode 9		CH11
Mode 10	802.11axHT20	CH01
Mode 11		CH06
Mode 12		CH11
Mode 13	802.11nHT40	CH03
Mode 14		CH06
Mode 15		CH09
Mode 16	802.11axHT40	CH03
Mode 17		CH06
Mode 18		CH09

Note: (1) The measurements are performed at the highest, middle, lowest available channels.

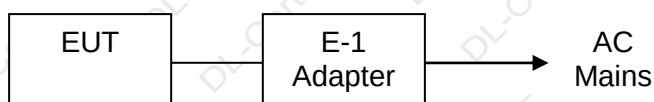
(2) During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

(3) For the two items of conducted disturbance at the power supply end and space radiation below 1GHz, all modes have undergone pre-tests. The report only shows the worst test results of mode 18.

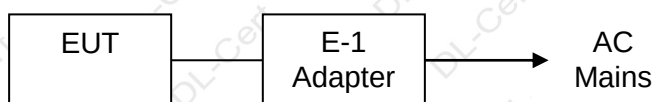


2.3. BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Power Line Conducted Emission Test



2.4. DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Adapter	HW-0501000E	N/A	Adapter (Provide by test lab): Manufacturer: HAIWEI Model: HW-0501000E I/P: AC 100-240V 50/60Hz O/P: DC 5V 1A

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5. TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

Max output power Setting				
Test software Version	Test program: FCC TEST_2.4G			
Mode	802.11b	802.11g	802.11n/ax HT20	802.11n/ax HT40
Data Rate	1Mbps	6Mbps	MSC0	MSC0
Power Setting of Softwave	60	60	60	66



2.6. EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Oct. 25, 2025	Oct. 24, 2026
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Oct. 25, 2025	Oct. 24, 2026
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Oct. 25, 2025	Oct. 24, 2026
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Oct. 25, 2025	Oct. 24, 2026
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Oct. 25, 2025	Oct. 24, 2026
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Oct. 25, 2025	Oct. 24, 2026
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Oct. 25, 2025	Oct. 24, 2026
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Oct. 25, 2025	Oct. 24, 2026
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Oct. 25, 2025	Oct. 24, 2026
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Oct. 25, 2025	Oct. 24, 2026
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Oct. 25, 2025	Oct. 24, 2026
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Oct. 25, 2025	Oct. 24, 2026
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Oct. 25, 2025	Oct. 24, 2026
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Oct. 25, 2025	Oct. 24, 2026
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Oct. 25, 2025	Oct. 24, 2026
16	D.C. Power Supply	LongWei	PS-305D	010964729	Oct. 25, 2025	Oct. 24, 2026
17	Power Meter	Ceyear	2438PA/PB	/	Oct. 25, 2025	Oct. 24, 2026
18	Peak/continuous wave power probe	Ceyear	81702F	/	Oct. 25, 2025	Oct. 24, 2026

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
2	EMI Receiver	R&S	ESR	101421	Oct. 25, 2025	Oct. 24, 2026
3	LISN	R&S	ENV216	102417	Oct. 25, 2025	Oct. 24, 2026
4	843 Cable 1#	ChengYu	CE Cable	001	Oct. 25, 2025	Oct. 24, 2026

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMCC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMCC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



3.. EMC EMISSION TEST

3.1. CONDUCTED EMISSION MEASUREMENT

3.1.1. POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.50	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2. TEST PROCEDURE

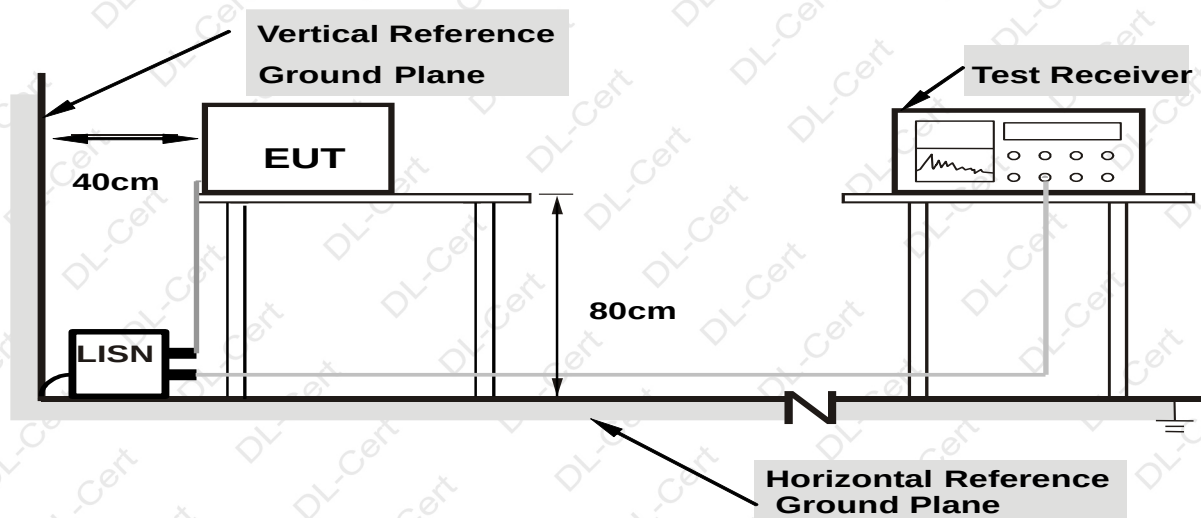
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3. DEVIATION FROM TEST STANDARD

No deviation



3.1.4. TEST SETUP



Note: 1.Support units were connected to second LISN.

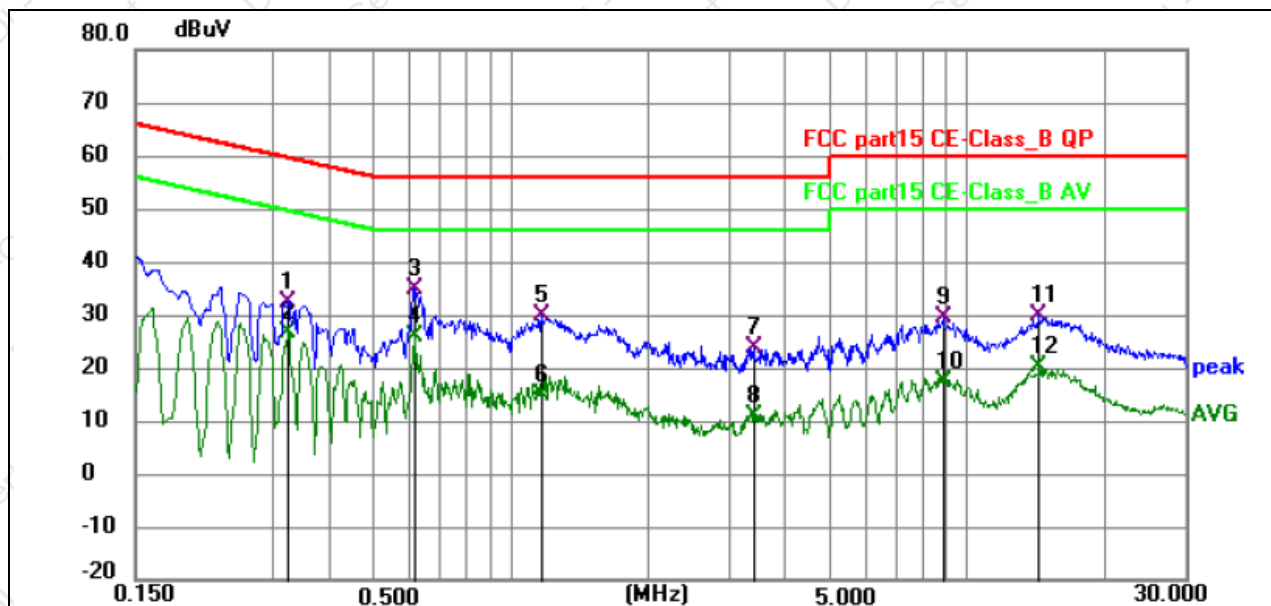
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5. EUT OPERATING CONDITIONS

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

**3.1.6. TEST RESULTS**

Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 18



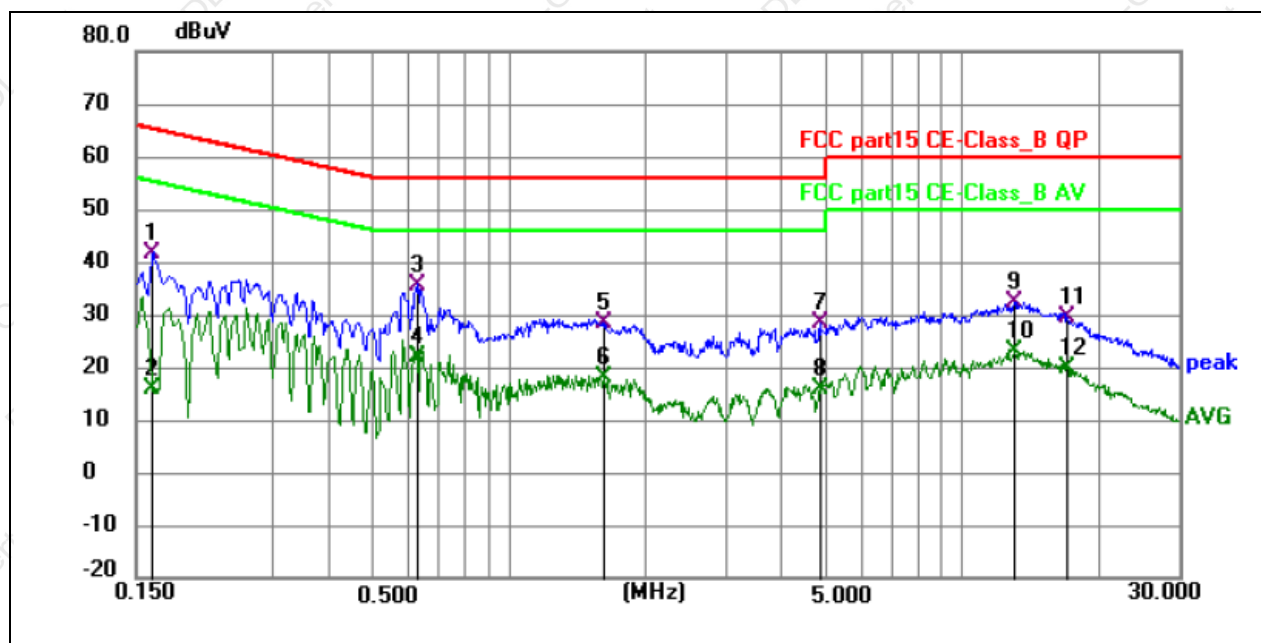
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3255	22.52	9.92	32.44	59.57	-27.13	QP	P	
2	0.3255	16.78	9.92	26.70	49.57	-22.87	AVG	P	
3	0.6180	25.09	9.87	34.96	56.00	-21.04	QP	P	
4 *	0.6180	15.95	9.87	25.82	46.00	-20.18	AVG	P	
5	1.1760	20.04	9.85	29.89	56.00	-26.11	QP	P	
6	1.1760	5.05	9.85	14.90	46.00	-31.10	AVG	P	
7	3.4035	13.57	10.11	23.68	56.00	-32.32	QP	P	
8	3.4035	0.62	10.11	10.73	46.00	-35.27	AVG	P	
9	8.8483	19.16	10.25	29.41	60.00	-30.59	QP	P	
10	8.8483	7.16	10.25	17.41	50.00	-32.59	AVG	P	
11	14.4105	19.51	10.26	29.77	60.00	-30.23	QP	P	
12	14.4105	9.96	10.26	20.22	50.00	-29.78	AVG	P	

Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 18



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1635	31.55	9.94	41.49	65.28	-23.79	QP	P	
2	0.1635	5.96	9.94	15.90	55.28	-39.38	AVG	P	
3 *	0.6270	25.52	9.86	35.38	56.00	-20.62	QP	P	
4	0.6270	12.02	9.86	21.88	46.00	-24.12	AVG	P	
5	1.6211	18.49	9.99	28.48	56.00	-27.52	QP	P	
6	1.6211	7.96	9.99	17.95	46.00	-28.05	AVG	P	
7	4.8704	18.12	10.16	28.28	56.00	-27.72	QP	P	
8	4.8704	5.58	10.16	15.74	46.00	-30.26	AVG	P	
9	13.0110	22.22	10.25	32.47	60.00	-27.53	QP	P	
10	13.0110	12.62	10.25	22.87	50.00	-27.13	AVG	P	
11	17.1015	19.33	10.27	29.60	60.00	-30.40	QP	P	
12	17.1015	9.70	10.27	19.97	50.00	-30.03	AVG	P	

Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor



3.2. RADIATED EMISSION MEASUREMENT

3.2.1. RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	25GHz
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

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



3.2.2. TEST PROCEDURE

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre.
- Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

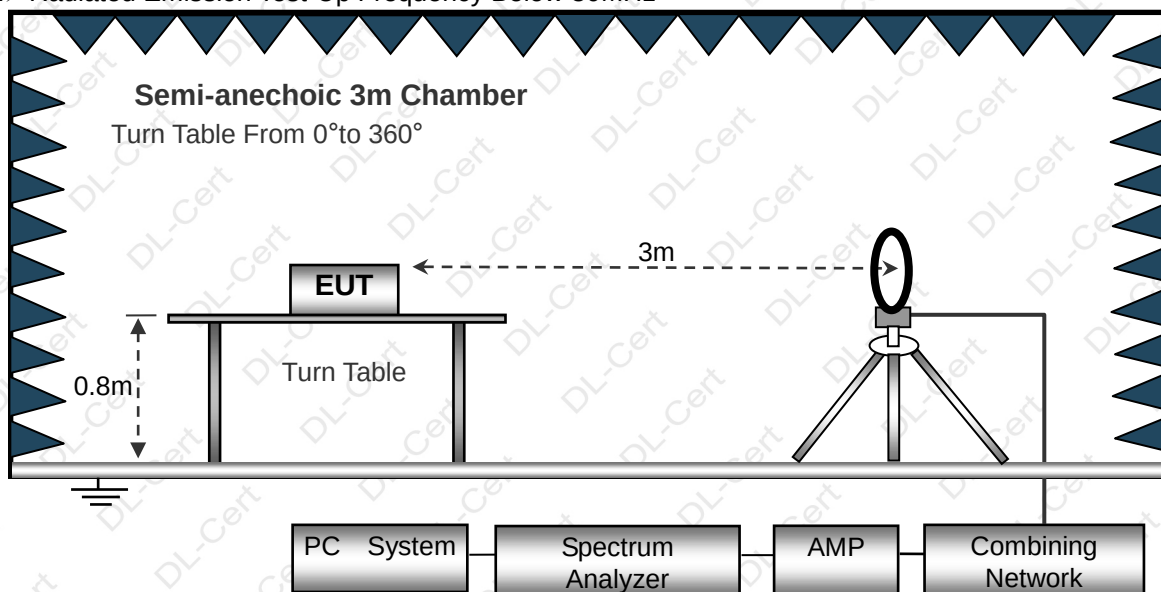
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3. DEVIATION FROM TEST STANDARD

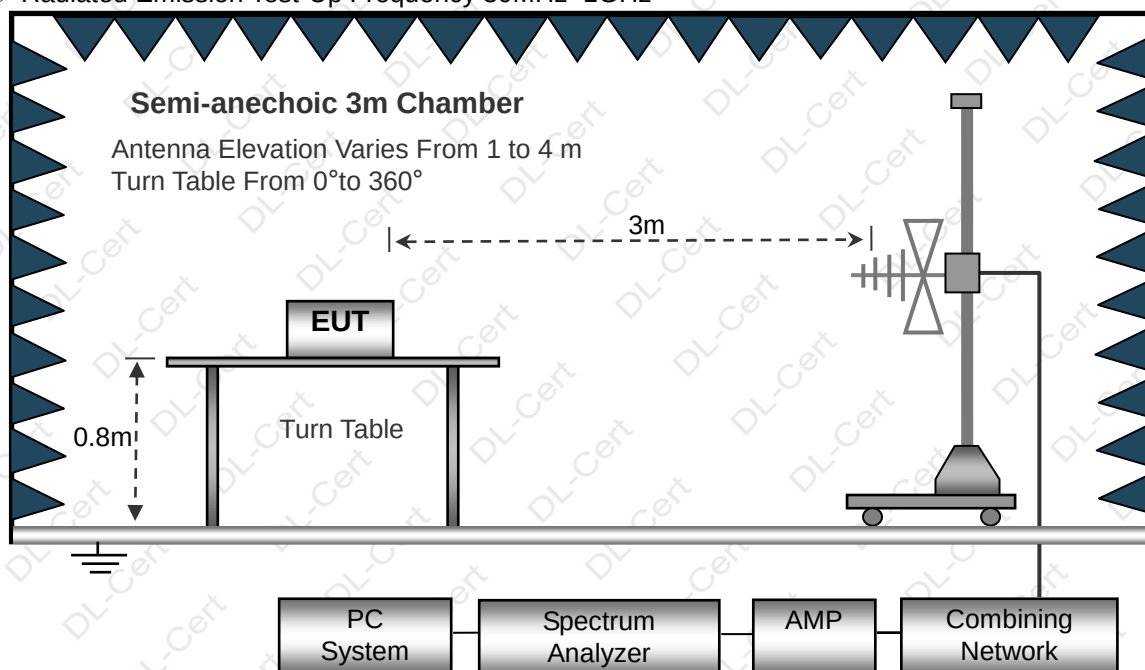
No deviation

3.2.4. TEST SETUP

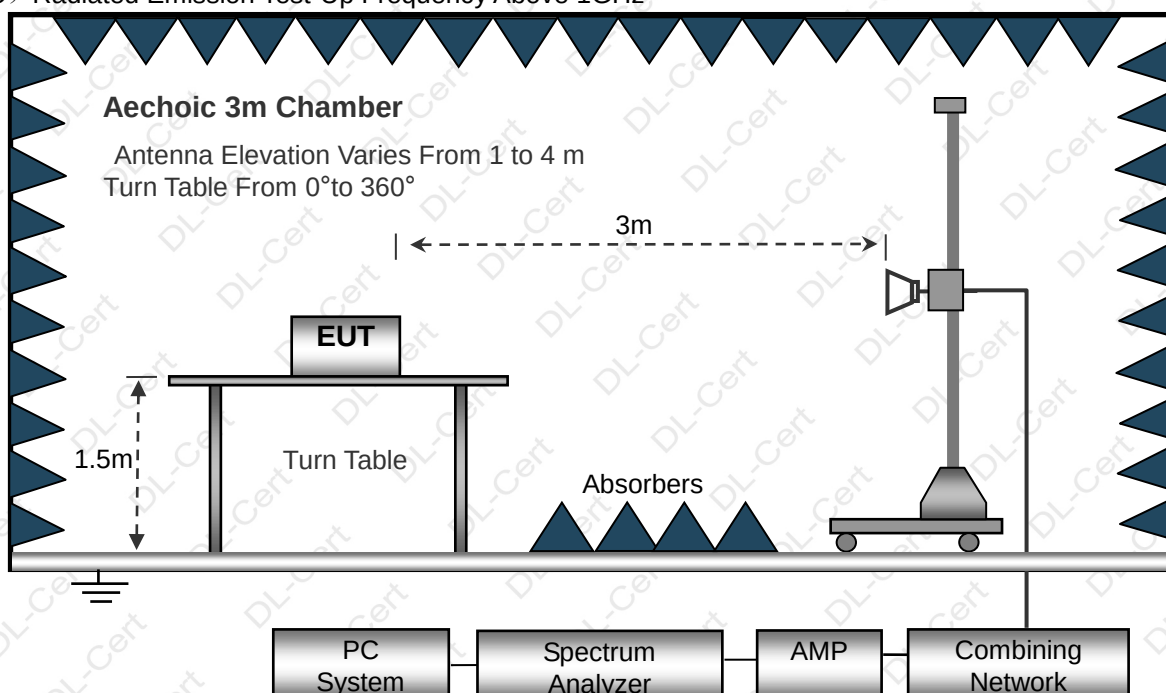
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5. EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.2.6. TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)**

Temperature:	20°C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 18	Polarization :	--

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

NOTE:

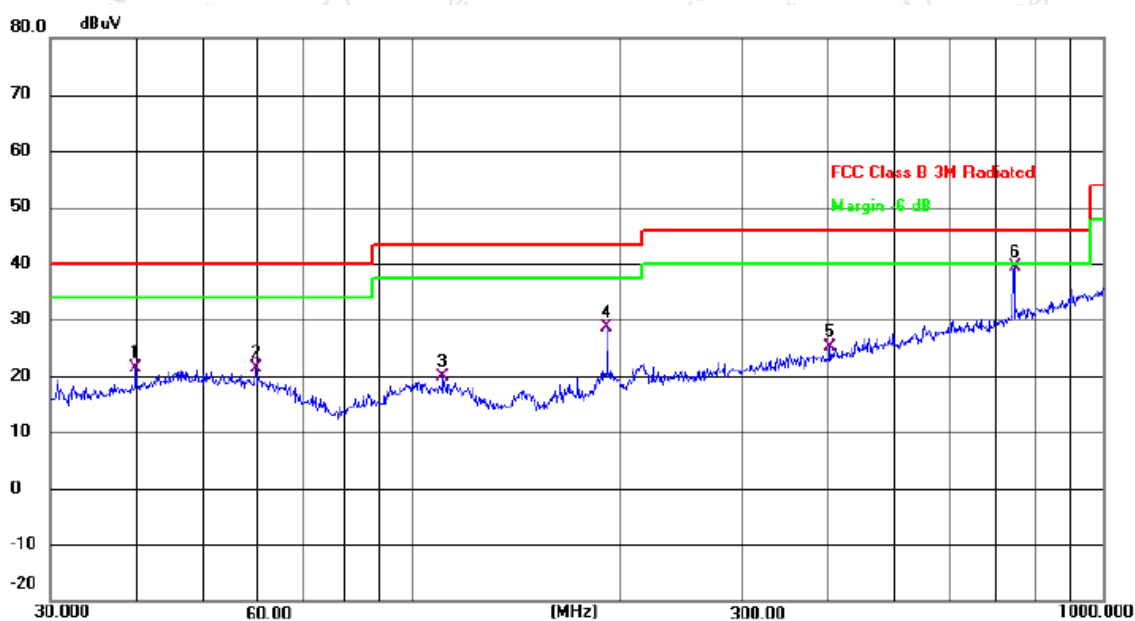
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

**3.2.7. TEST RESULTS (BETWEEN 30MHZ – 1GHZ)**

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		
Test Mode :	Mode 18		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		39.8542	29.38	-7.99	21.39	40.00	-18.61	QP	
2		59.4405	29.14	-7.71	21.43	40.00	-18.57	QP	
3		110.9571	28.79	-8.94	19.85	43.50	-23.65	QP	
4		191.7450	38.26	-9.52	28.74	43.50	-14.76	QP	
5		403.2500	29.00	-3.88	25.12	46.00	-20.88	QP	
6	*	744.8661	36.61	2.75	39.36	46.00	-6.64	QP	

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;



Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		
Test Mode :	Mode 18		



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	30.0000	32.68	-9.87	22.81	40.00	-17.19	QP	
2	55.8047	29.21	-7.32	21.89	40.00	-18.11	QP	
3	93.7685	33.03	-10.10	22.93	43.50	-20.57	QP	
4	188.4125	31.01	-9.41	21.60	43.50	-21.90	QP	
5	382.5879	28.85	-4.11	24.74	46.00	-21.26	QP	
6 *	593.0497	28.63	0.54	29.17	46.00	-16.83	QP	

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;

**3.2.8. TEST RESULTS (1GHZ~25GHZ)**

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	57.25	50.65	6.88	31.29	44.77	74	-29.23	PK
V	4824	35.45	50.65	6.88	31.29	22.97	54	-31.03	AV
V	7236	47.11	49.98	7.16	36.63	40.92	74	-33.08	PK
V	7236	25.55	49.98	7.16	36.63	19.36	54	-34.64	AV
V	16087	44.23	51.53	11.34	41.52	45.56	74	-28.44	PK
H	4824	46.41	50.65	6.88	31.29	33.93	74	-40.07	PK
H	4824	21.56	50.65	6.88	31.29	9.08	54	-44.92	AV
H	7236	39.25	49.98	7.16	36.63	33.06	74	-40.94	PK
H	7236	18.75	49.98	7.16	36.63	12.56	54	-41.44	AV
H	16087	38.81	51.53	11.34	41.52	40.14	74	-33.86	PK
operation frequency:2437									
V	4874	56.63	50.67	6.89	31.38	44.23	74	-29.77	PK
V	4874	34.25	50.67	6.89	31.38	21.85	54	-32.15	AV
V	7311	46.43	50.02	7.24	36.63	40.28	74	-33.72	PK
V	7311	24.85	50.02	7.24	36.63	18.7	54	-35.3	AV
V	16087	45.26	51.53	11.34	41.52	46.59	74	-27.41	PK
H	4874	47.55	50.67	6.89	31.38	35.15	74	-38.85	PK
H	4874	22.41	50.67	6.89	31.38	10.01	54	-43.99	AV
H	7311	38.36	50.02	7.24	36.63	32.21	74	-41.79	PK
H	7311	16.55	50.02	7.24	36.63	10.4	54	-43.6	AV
H	16087	37.64	51.53	11.34	41.52	38.97	74	-35.03	PK
operation frequency:2462									
V	4924	55.52	50.67	6.89	31.38	43.12	74	-30.88	PK
V	4924	33.36	50.67	6.89	31.38	20.96	54	-33.04	AV
V	7386	45.45	50.02	7.24	36.63	39.3	74	-34.7	PK
V	7386	23.41	50.02	7.24	36.63	17.26	54	-36.74	AV
V	16087	44.26	51.53	11.34	41.52	45.59	74	-28.41	PK
H	4924	46.52	50.67	6.89	31.38	34.12	74	-39.88	PK
H	4924	21.68	50.67	6.89	31.38	9.28	54	-44.72	AV
H	7386	37.41	50.02	7.24	36.63	31.26	74	-42.74	PK
H	7386	14.65	50.02	7.24	36.63	8.5	54	-45.5	AV
H	16087	36.21	51.53	11.34	41.52	37.54	74	-36.46	PK

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.



802.11g

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	56.26	50.65	6.88	31.29	43.78	74	-30.22	PK
V	4824	34.52	50.65	6.88	31.29	22.04	54	-31.96	AV
V	7236	44.83	49.98	7.16	36.63	38.64	74	-35.36	PK
V	7236	21.52	49.98	7.16	36.63	15.33	54	-38.67	AV
V	16087	45.69	51.53	11.34	41.52	47.02	74	-26.98	PK
H	4824	44.84	50.65	6.88	31.29	32.36	74	-41.64	PK
H	4824	20.61	50.65	6.88	31.29	8.13	54	-45.87	AV
H	7236	38.48	49.98	7.16	36.63	32.29	74	-41.71	PK
H	7236	16.23	49.98	7.16	36.63	10.04	54	-43.96	AV
H	16087	35.45	51.53	11.34	41.52	36.78	74	-37.22	PK
operation frequency:2437									
V	4874	57.52	50.67	6.89	31.38	45.12	74	-28.88	PK
V	4874	35.83	50.67	6.89	31.38	23.43	54	-30.57	AV
V	7311	46.41	50.02	7.24	36.63	40.26	74	-33.74	PK
V	7311	20.22	50.02	7.24	36.63	14.07	54	-39.93	AV
V	16087	44.67	51.53	11.34	41.52	46	74	-28	PK
H	4874	45.53	50.67	6.89	31.38	33.13	74	-40.87	PK
H	4874	21.52	50.67	6.89	31.38	9.12	54	-44.88	AV
H	7311	36.56	50.02	7.24	36.63	30.41	74	-43.59	PK
H	7311	15.14	50.02	7.24	36.63	8.99	54	-45.01	AV
H	16087	36.23	51.53	11.34	41.52	37.56	74	-36.44	PK
operation frequency:2462									
V	4924	56.52	50.79	6.83	31.36	43.92	74	-30.08	PK
V	4924	33.53	50.79	6.83	31.36	20.93	54	-33.07	AV
V	7386	44.54	50.11	7.25	36.58	38.26	74	-35.74	PK
V	7386	21.85	50.11	7.25	36.58	15.57	54	-38.43	AV
V	16087	43.46	51.53	11.34	41.52	44.79	74	-29.21	PK
H	4924	41.52	50.79	6.83	31.36	28.92	74	-45.08	PK
H	4924	20.16	50.79	6.83	31.36	7.56	54	-46.44	AV
H	7386	35.84	50.11	7.25	36.58	29.56	74	-44.44	PK
H	7386	13.28	50.11	7.25	36.58	7	54	-47	AV
H	16087	37.52	51.53	11.34	41.52	38.85	74	-35.15	PK

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.



802.11n HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	57.23	50.65	6.88	31.29	44.75	74	-29.25	PK
V	4824	34.65	50.65	6.88	31.29	22.17	54	-31.83	AV
V	7236	45.63	49.98	7.16	36.63	39.44	74	-34.56	PK
V	7236	22.74	49.98	7.16	36.63	16.55	54	-37.45	AV
V	16087	45.23	51.53	11.34	41.52	46.56	74	-27.44	PK
H	4824	42.52	50.65	6.88	31.29	30.04	74	-43.96	PK
H	4824	21.63	50.65	6.88	31.29	9.15	54	-44.85	AV
H	7236	34.35	49.98	7.16	36.63	28.16	74	-45.84	PK
H	7236	12.52	49.98	7.16	36.63	6.33	54	-47.67	AV
H	16087	36.56	51.53	11.34	41.52	37.89	74	-36.11	PK
operation frequency:2437									
V	4874	56.52	50.67	6.89	31.38	44.12	74	-29.88	PK
V	4874	33.83	50.67	6.89	31.38	21.43	54	-32.57	AV
V	7311	44.48	50.02	7.24	36.63	38.33	74	-35.67	PK
V	7311	23.56	50.02	7.24	36.63	17.41	54	-36.59	AV
V	16087	45.52	51.53	11.34	41.52	46.85	74	-27.15	PK
H	4874	43.53	50.67	6.89	31.38	31.13	74	-42.87	PK
H	4874	21.21	50.67	6.89	31.38	8.81	54	-45.19	AV
H	7311	33.68	50.02	7.24	36.63	27.53	74	-46.47	PK
H	7311	11.26	50.02	7.24	36.63	5.11	54	-48.89	AV
H	16087	37.52	51.53	11.34	41.52	38.85	74	-35.15	PK
operation frequency:2462									
V	4924	55.13	50.79	6.83	31.36	42.53	74	-31.47	PK
V	4924	32.55	50.79	6.83	31.36	19.95	54	-34.05	AV
V	7386	43.83	50.11	7.25	36.58	37.55	74	-36.45	PK
V	7386	22.55	50.11	7.25	36.58	16.27	54	-37.73	AV
V	16087	44.41	51.53	11.34	41.52	45.74	74	-28.26	PK
H	4924	45.46	50.79	6.83	31.36	32.86	74	-41.14	PK
H	4924	23.87	50.79	6.83	31.36	11.27	54	-42.73	AV
H	7386	34.42	50.11	7.25	36.58	28.14	74	-45.86	PK
H	7386	12.63	50.11	7.25	36.58	6.35	54	-47.65	AV
H	16087	38.85	51.53	11.34	41.52	40.18	74	-33.82	PK

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.



802.11ax HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	56.21	50.67	6.89	31.32	43.75	74	-30.25	PK
V	4824	31.33	50.67	6.89	31.32	18.87	54	-35.13	AV
V	7236	45.85	50.01	7.15	36.62	39.61	74	-34.39	PK
V	7236	23.46	50.01	7.15	36.62	17.22	54	-36.78	AV
V	16087	45.41	51.53	11.34	41.52	46.74	74	-27.26	PK
H	4824	46.33	50.67	6.89	31.32	33.87	74	-40.13	PK
H	4824	25.55	50.67	6.89	31.32	13.09	54	-40.91	AV
H	7236	36.56	50.01	7.15	36.62	30.32	74	-43.68	PK
H	7236	13.62	50.01	7.15	36.62	7.38	54	-46.62	AV
H	16087	37.58	51.53	11.34	41.52	38.91	74	-35.09	PK
operation frequency:2437									
V	4874	57.52	50.67	6.89	31.38	45.12	74	-28.88	PK
V	4874	32.43	50.67	6.89	31.38	20.03	54	-33.97	AV
V	7311	44.41	50.02	7.24	36.63	38.26	74	-35.74	PK
V	7311	22.46	50.02	7.24	36.63	16.31	54	-37.69	AV
V	16087	41.52	51.53	11.34	41.52	42.85	74	-31.15	PK
H	4874	47.63	50.67	6.89	31.38	35.23	74	-38.77	PK
H	4874	24.55	50.67	6.89	31.38	12.15	54	-41.85	AV
H	7311	37.35	50.02	7.24	36.63	31.2	74	-42.8	PK
H	7311	12.84	50.02	7.24	36.63	6.69	54	-47.31	AV
H	16087	38.85	51.53	11.34	41.52	40.18	74	-33.82	PK
operation frequency:2462									
V	4924	56.56	50.76	6.81	31.31	43.92	74	-30.08	PK
V	4924	31.33	50.76	6.81	31.31	18.69	54	-35.31	AV
V	7386	45.52	50.08	7.21	36.52	39.17	74	-34.83	PK
V	7386	23.43	50.08	7.21	36.52	17.08	54	-36.92	AV
V	16087	42.64	51.53	11.34	41.52	43.97	74	-30.03	PK
H	4924	46.51	50.76	6.81	31.31	33.87	74	-40.13	PK
H	4924	23.86	50.76	6.81	31.31	11.22	54	-42.78	AV
H	7386	36.36	50.08	7.21	36.52	30.01	74	-43.99	PK
H	7386	12.52	50.08	7.21	36.52	6.17	54	-47.83	AV
H	16087	39.88	51.53	11.34	41.52	41.21	74	-32.79	PK

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.



802.11n HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2422									
V	4844	57.36	50.65	6.88	31.29	44.88	74	-29.12	PK
V	4844	35.42	50.65	6.88	31.29	22.94	54	-31.06	AV
V	7266	47.18	49.98	7.16	36.63	40.99	74	-33.01	PK
V	7266	25.53	49.98	7.16	36.63	19.34	54	-34.66	AV
V	16087	44.52	51.53	11.34	41.52	45.85	74	-28.15	PK
H	4844	46.46	50.65	6.88	31.29	33.98	74	-40.02	PK
H	4844	21.41	50.65	6.88	31.29	8.93	54	-45.07	AV
H	7266	39.23	49.98	7.16	36.63	33.04	74	-40.96	PK
H	7266	18.72	49.98	7.16	36.63	12.53	54	-41.47	AV
H	16087	38.88	51.53	11.34	41.52	40.21	74	-33.79	PK
operation frequency:2437									
V	4874	56.23	50.67	6.89	31.38	43.83	74	-30.17	PK
V	4874	34.14	50.67	6.89	31.38	21.74	54	-32.26	AV
V	7311	46.46	50.02	7.24	36.63	40.31	74	-33.69	PK
V	7311	24.82	50.02	7.24	36.63	18.67	54	-35.33	AV
V	16087	45.23	51.53	11.34	41.52	46.56	74	-27.44	PK
H	4874	47.41	50.67	6.89	31.38	35.01	74	-38.99	PK
H	4874	22.25	50.67	6.89	31.38	9.85	54	-44.15	AV
H	7311	38.36	50.02	7.24	36.63	32.21	74	-41.79	PK
H	7311	16.14	50.02	7.24	36.63	9.99	54	-44.01	AV
H	16087	37.62	51.53	11.34	41.52	38.95	74	-35.05	PK
operation frequency:2452									
V	4904	55.36	50.67	6.89	31.38	42.96	74	-31.04	PK
V	4904	33.34	50.67	6.89	31.38	20.94	54	-33.06	AV
V	7356	45.14	50.02	7.24	36.63	38.99	74	-35.01	PK
V	7356	23.46	50.02	7.24	36.63	17.31	54	-36.69	AV
V	16087	44.52	51.53	11.34	41.52	45.85	74	-28.15	PK
H	4904	46.53	50.67	6.89	31.38	34.13	74	-39.87	PK
H	4904	21.67	50.67	6.89	31.38	9.27	54	-44.73	AV
H	7356	37.52	50.02	7.24	36.63	31.37	74	-42.63	PK
H	7356	14.65	50.02	7.24	36.63	8.5	54	-45.5	AV
H	16087	36.52	51.53	11.34	41.52	37.85	74	-36.15	PK

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.



802.11ax HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2422									
V	4844	56.22	50.65	6.88	31.29	43.74	74	-30.26	PK
V	4844	34.56	50.65	6.88	31.29	22.08	54	-31.92	AV
V	7266	44.88	49.98	7.16	36.63	38.69	74	-35.31	PK
V	7266	21.55	49.98	7.16	36.63	15.36	54	-38.64	AV
V	16087	45.41	51.53	11.34	41.52	46.74	74	-27.26	PK
H	4844	44.86	50.65	6.88	31.29	32.38	74	-41.62	PK
H	4844	20.52	50.65	6.88	31.29	8.04	54	-45.96	AV
H	7266	38.43	49.98	7.16	36.63	32.24	74	-41.76	PK
H	7266	16.52	49.98	7.16	36.63	10.33	54	-43.67	AV
H	16087	35.41	51.53	11.34	41.52	36.74	74	-37.26	PK
operation frequency:2437									
V	4874	57.23	50.67	6.89	31.38	44.83	74	-29.17	PK
V	4874	35.85	50.67	6.89	31.38	23.45	54	-30.55	AV
V	7311	46.46	50.02	7.24	36.63	40.31	74	-33.69	PK
V	7311	20.24	50.02	7.24	36.63	14.09	54	-39.91	AV
V	16087	44.61	51.53	11.34	41.52	45.94	74	-28.06	PK
H	4874	45.55	50.67	6.89	31.38	33.15	74	-40.85	PK
H	4874	21.63	50.67	6.89	31.38	9.23	54	-44.77	AV
H	7311	36.52	50.02	7.24	36.63	30.37	74	-43.63	PK
H	7311	15.18	50.02	7.24	36.63	9.03	54	-44.97	AV
H	16087	36.26	51.53	11.34	41.52	37.59	74	-36.41	PK
operation frequency:2452									
V	4904	56.23	50.79	6.83	31.36	43.63	74	-30.37	PK
V	4904	33.85	50.79	6.83	31.36	21.25	54	-32.75	AV
V	7356	44.56	50.11	7.25	36.58	38.28	74	-35.72	PK
V	7356	21.84	50.11	7.25	36.58	15.56	54	-38.44	AV
V	16087	43.41	51.53	11.34	41.52	44.74	74	-29.26	PK
H	4904	41.56	50.79	6.83	31.36	28.96	74	-45.04	PK
H	4904	20.12	50.79	6.83	31.36	7.52	54	-46.48	AV
H	7356	35.85	50.11	7.25	36.58	29.57	74	-44.43	PK
H	7356	13.24	50.11	7.25	36.58	6.96	54	-47.04	AV
H	16087	37.63	51.53	11.34	41.52	38.96	74	-35.04	PK

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.



3.3 RADIATED BAND EMISSION MEASUREMENT

3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520MHz
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
7. Test the EUT in the lowest channel,the Highest channel

Note:

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

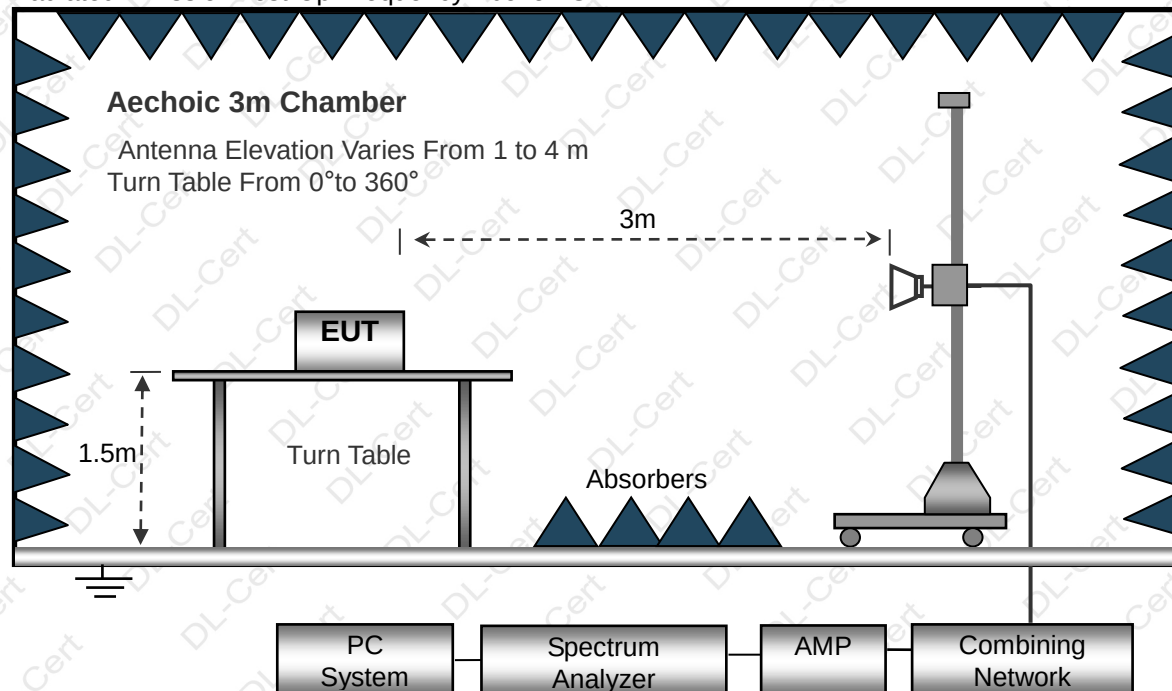
3.3.3 DEVIATION FROM TEST STANDARD

No deviation



3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.3.6 TEST RESULT

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2310	62.55	52.11	2.68	27.32	40.44	74	-33.56	PK
V	2310	38.36	52.11	2.68	27.32	16.25	54	-37.75	AV
V	2390	61.41	52.13	2.52	27.46	39.26	74	-34.74	PK
V	2390	39.48	52.13	2.52	27.46	17.33	54	-36.67	AV
H	2310	63.63	52.11	2.68	27.32	41.52	74	-32.48	PK
H	2310	37.25	52.11	2.68	27.32	15.14	54	-38.86	AV
H	2390	62.41	52.13	2.52	27.46	40.26	74	-33.74	PK
H	2390	38.63	52.13	2.52	27.46	16.48	54	-37.52	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	63.52	52.23	2.86	27.44	41.59	74	-32.41	PK
V	2483.5	37.46	52.23	2.86	27.44	15.53	54	-38.47	AV
V	2500	62.41	52.26	2.88	27.49	40.52	74	-33.48	PK
V	2500	38.88	52.26	2.88	27.49	16.99	54	-37.01	AV
H	2483.5	62.56	52.23	2.86	27.44	40.63	74	-33.37	PK
H	2483.5	36.52	52.23	2.86	27.44	14.59	54	-39.41	AV
H	2500	61.46	52.26	2.88	27.49	39.57	74	-34.43	PK
H	2500	37.45	52.26	2.88	27.49	15.56	54	-38.44	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.



802.11g

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2310	62.32	52.11	2.68	27.32	40.21	74	-33.79	PK
V	2310	36.46	52.11	2.68	27.32	14.35	54	-39.65	AV
V	2390	63.28	52.13	2.52	27.46	41.13	74	-32.87	PK
V	2390	37.52	52.13	2.52	27.46	15.37	54	-38.63	AV
H	2310	63.46	52.11	2.68	27.32	41.35	74	-32.65	PK
H	2310	37.51	52.11	2.68	27.32	15.4	54	-38.6	AV
H	2390	62.53	52.13	2.52	27.46	40.38	74	-33.62	PK
H	2390	36.52	52.13	2.52	27.46	14.37	54	-39.63	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	63.36	52.23	2.86	27.44	41.43	74	-32.57	PK
V	2483.5	38.82	52.23	2.86	27.44	16.89	54	-37.11	AV
V	2500	61.58	52.26	2.88	27.49	39.69	74	-34.31	PK
V	2500	38.85	52.26	2.88	27.49	16.96	54	-37.04	AV
H	2483.5	61.16	52.23	2.86	27.44	39.23	74	-34.77	PK
H	2483.5	38.24	52.23	2.86	27.44	16.31	54	-37.69	AV
H	2500	63.52	52.26	2.88	27.49	41.63	74	-32.37	PK
H	2500	39.66	52.26	2.88	27.49	17.77	54	-36.23	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.



802.11n HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2310	64.52	52.11	2.68	27.32	42.41	74	-31.59	PK
V	2310	37.56	52.11	2.68	27.32	15.45	54	-38.55	AV
V	2390	63.45	52.13	2.52	27.46	41.3	74	-32.7	PK
V	2390	39.41	52.13	2.52	27.46	17.26	54	-36.74	AV
H	2310	62.88	52.11	2.68	27.32	40.77	74	-33.23	PK
H	2310	39.36	52.11	2.68	27.32	17.25	54	-36.75	AV
H	2390	64.65	52.13	2.52	27.46	42.5	74	-31.5	PK
H	2390	38.26	52.13	2.52	27.46	16.11	54	-37.89	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	63.52	52.23	2.86	27.44	41.59	74	-32.41	PK
V	2483.5	36.73	52.23	2.86	27.44	14.8	54	-39.2	AV
V	2500	62.24	52.26	2.88	27.49	40.35	74	-33.65	PK
V	2500	38.48	52.26	2.88	27.49	16.59	54	-37.41	AV
H	2483.5	61.63	52.23	2.86	27.44	39.7	74	-34.3	PK
H	2483.5	36.12	52.23	2.86	27.44	14.19	54	-39.81	AV
H	2500	62.21	52.26	2.88	27.49	40.32	74	-33.68	PK
H	2500	35.66	52.26	2.88	27.49	13.77	54	-40.23	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.



802.11ax HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2390	62.18	52.11	2.68	27.32	40.07	74	-33.93	PK
V	2390	37.45	52.11	2.68	27.32	15.34	54	-38.66	AV
V	2400	63.46	52.13	2.52	27.46	41.31	74	-32.69	PK
V	2400	39.35	52.13	2.52	27.46	17.2	54	-36.8	AV
H	2390	61.52	52.11	2.68	27.32	39.41	74	-34.59	PK
H	2390	35.33	52.11	2.68	27.32	13.22	54	-40.78	AV
H	2400	61.45	52.13	2.52	27.46	39.3	74	-34.7	PK
H	2400	33.24	52.13	2.52	27.46	11.09	54	-42.91	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	61.36	52.23	2.86	27.44	39.43	74	-34.57	PK
V	2483.5	35.52	52.23	2.86	27.44	13.59	54	-40.41	AV
V	2500	61.81	52.26	2.88	27.49	39.92	74	-34.08	PK
V	2500	38.55	52.26	2.88	27.49	16.66	54	-37.34	AV
H	2483.5	62.63	52.23	2.86	27.44	40.7	74	-33.3	PK
H	2483.5	37.65	52.23	2.86	27.44	15.72	54	-38.28	AV
H	2500	62.78	52.26	2.88	27.49	40.89	74	-33.11	PK
H	2500	36.63	52.26	2.88	27.49	14.74	54	-39.26	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.



802.11n HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2422									
V	2310	64.36	52.11	2.68	27.32	42.25	74	-31.75	PK
V	2310	37.52	52.11	2.68	27.32	15.41	54	-38.59	AV
V	2390	63.48	52.13	2.52	27.46	41.33	74	-32.67	PK
V	2390	39.46	52.13	2.52	27.46	17.31	54	-36.69	AV
H	2310	62.25	52.11	2.68	27.32	40.14	74	-33.86	PK
H	2310	39.33	52.11	2.68	27.32	17.22	54	-36.78	AV
H	2390	64.21	52.13	2.52	27.46	42.06	74	-31.94	PK
H	2390	38.23	52.13	2.52	27.46	16.08	54	-37.92	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2452									
V	2483.5	63.58	52.23	2.86	27.44	41.65	74	-32.35	PK
V	2483.5	36.63	52.23	2.86	27.44	14.7	54	-39.3	AV
V	2500	62.25	52.26	2.88	27.49	40.36	74	-33.64	PK
V	2500	38.41	52.26	2.88	27.49	16.52	54	-37.48	AV
H	2483.5	61.68	52.23	2.86	27.44	39.75	74	-34.25	PK
H	2483.5	36.63	52.23	2.86	27.44	14.7	54	-39.3	AV
H	2500	62.55	52.26	2.88	27.49	40.66	74	-33.34	PK
H	2500	35.61	52.26	2.88	27.49	13.72	54	-40.28	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.



802.11ax HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2422									
V	2390	62.23	52.11	2.68	27.32	40.12	74	-33.88	PK
V	2390	37.44	52.11	2.68	27.32	15.33	54	-38.67	AV
V	2400	63.52	52.13	2.52	27.46	41.37	74	-32.63	PK
V	2400	39.36	52.13	2.52	27.46	17.21	54	-36.79	AV
H	2390	61.55	52.11	2.68	27.32	39.44	74	-34.56	PK
H	2390	35.31	52.11	2.68	27.32	13.2	54	-40.8	AV
H	2400	61.43	52.13	2.52	27.46	39.28	74	-34.72	PK
H	2400	33.52	52.13	2.52	27.46	11.37	54	-42.63	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2452									
V	2483.5	61.23	52.23	2.86	27.44	39.3	74	-34.7	PK
V	2483.5	35.85	52.23	2.86	27.44	13.92	54	-40.08	AV
V	2500	61.86	52.26	2.88	27.49	39.97	74	-34.03	PK
V	2500	38.54	52.26	2.88	27.49	16.65	54	-37.35	AV
H	2483.5	62.61	52.23	2.86	27.44	40.68	74	-33.32	PK
H	2483.5	37.63	52.23	2.86	27.44	15.7	54	-38.3	AV
H	2500	62.75	52.26	2.88	27.49	40.86	74	-33.14	PK
H	2500	36.63	52.26	2.88	27.49	14.74	54	-39.26	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.

**3.4 CONDUCTED BAND EDGE EMISSION&CONDUCTED SPURIOUS EMISSIONS MEASUREMENT**

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

3.4.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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 in15.209(a).

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.

3.4.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

Set the RBW = 100KHz.

Set the VBW = 300KHz.

Sweep time = auto couple.

Detector function = peak.

Trace mode = max hold.

Allow trace to fully stabilize.

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 $\geq [3 \times \text{RBW}]$.

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.

3.4.3 DEVIATION FROM STANDARD

No deviation.

3.4.4 TEST SETUP**3.4.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.6 TEST RESULTS

Please see annex test data.



4.. AVERAGE OUTPUT POWER

4.1. APPLIED PROCEDURES / LIMIT

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

4.1.1. TEST PROCEDURE

Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction. The procedure for this method is as follows:

- Measure the duty cycle D of the transmitter output signal as described in 11.6.
- Set span to >1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, but do not exceed 1 MHz.
- Set VBW $\geq$ [3x RBW].
- Number of points in sweep $\geq$ [2 x span / RBW]. (This gives bin-to-bin spacing $\leq$ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time- auto.
- Detector = Power averaging (rms), if available. Otherwise, use the sample detector mode.
- Do not use sweep triggering. Allow the sweep to "free run."
- Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 until trace is stabilized so that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- 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, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.

4.1.2. DEVIATION FROM STANDARD

No deviation.

4.1.3. TEST SETUP



4.1.4. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**4.1.5. TEST RESULTS**

Temperature:	25 °C	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz

Please see annex test data.

**5.. POWER SPECTRAL DENSITY TEST****5.1. APPLIED PROCEDURES / LIMIT**

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

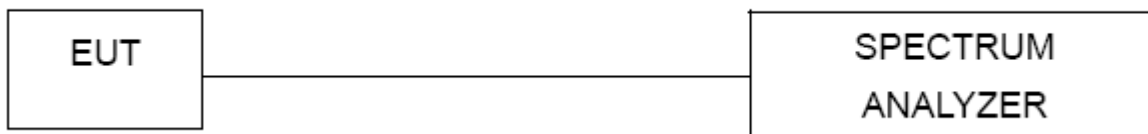
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW $\geq$ 3kHz
VB	VBW $\geq$ 3RBW
Detector	power averaging (rms) or sample detector (when rms not available).
Trace	rms/average
Sweep Time	Auto

5.1.1. TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

5.1.2. DEVIATION FROM STANDARD

No deviation.

5.1.3. TEST SETUP**5.1.4. EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5. TEST RESULTS

Please see annex test data.



6.. 6DB BANDWIDTH TEST

6.1. APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range(MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

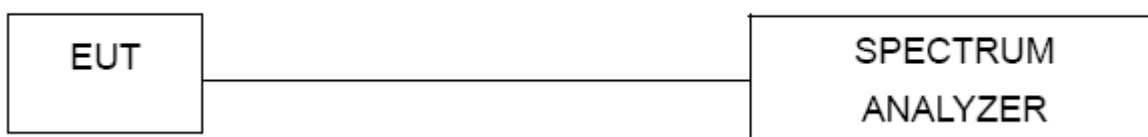
6.1.1. TEST PROCEDURE

1. Set RBW = 1% to 5% of the OBW.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

6.1.2. DEVIATION FROM STANDARD

No deviation.

6.1.3. TEST SETUP



6.1.4. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5. TEST RESULTS

Please see annex test data.



7.. DUTY CYCLE TEST SIGNAL

7.1. APPLIED PROCEDURES / LIMIT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1.1. TEST PROCEDURE

1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Sweep = auto couple.
5. Allow the trace to stabilize.
6. Span=0

7.1.2. DEVIATION FROM STANDARD

No deviation.

7.1.3. TEST SETUP



7.1.4. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5. TEST RESULTS

Please see annex test data.



8.. ANTENNA REQUIREMENT

8.1. STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

8.2. EUT ANTENNA

The EUT antenna is Internal Antenna, It comply with the standard requirement.

9.. TEST SEUUP PHOTO

Reference to the appendix I for details.

10.. EUT PHOTO

Reference to the appendix II for details.

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