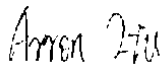


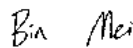
TEST REPORT

Product Name: Visual Blackhead Vacuum Device
FCC ID: 2AYJD-DZ06
Trademark: N/A
Model Number: DZ06, MB-KK0101
Prepared For: Shenzhen Dianzhui Culture Technology Co., Ltd.
Address: 312, Block B, Baoyuan Huafeng Headquarter Economic Building,
Xixiang Street, Baoan District, Shenzhen, China
Manufacturer: Shenzhen Dianzhui Culture Technology Co., Ltd.
Address: 312, Block B, Baoyuan Huafeng Headquarter Economic Building,
Xixiang Street, Baoan District, Shenzhen, China
Prepared By: Shenzhen CTB Testing Technology Co., Ltd.
Address: Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan
District, Shenzhen China
Sample Received Date: Jan. 13, 2021
Sample tested Date: Jan. 13, 2021 to Jan. 19, 2021
Issue Date: Jan. 19, 2021
Report No.: CTB210114037RFX
Test Standards FCC Part15.247
ANSI C63.10:2013
Test Results PASS
Remark: This is WIFI-2.4GHz band radio test report.

Compiled by:

Arron Liu

Reviewed by:

Bin Mei

Approved by:


Rita Xiao / Director

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

TABLE OF CONTENT

Test Report Declaration	Page
1. VERSION	4
2. TEST SUMMARY	5
3. MEASUREMENT UNCERTAINTY	6
4. PRODUCT INFORMATION AND TEST SETUP	7
4.1 Product Information	7
4.2 Test Setup Configuration	7
4.3 Support Equipment	8
4.4 Channel List	9
4.5 Test Mode	9
4.6 Test Environment	9
5. TEST FACILITY AND TEST INSTRUMENT USED	10
5.1 Test Facility	10
5.2 Test Instrument Used	10
6. AC POWER LINE CONDUCTED EMISSION	12
6.1 Block Diagram Of Test Setup	12
6.2 Limit	12
6.3 Test procedure	12
6.4 Test Result	14
7. RADIATED SPURIOUS EMISSION	16
7.1 Block Diagram Of Test Setup	16
7.2 Limit	16
7.3 Test procedure	17
7.4 Test Result	18
8. BAND EDGE AND RF CONDUCTED SPURIOUS EMISSIONS	30
8.1 Block Diagram Of Test Setup	30
8.2 Limit	30
8.3 Test procedure	30
8.4 Test Result	31
9. CONDUCTED OUTPUT POWER	35
9.1 Block Diagram Of Test Setup	35

9.2	Limit.....	35
9.3	Test procedure	35
9.4	Test Result	36
10.	6DB OCCUPIED BANDWIDTH.....	39
10.1	Block Diagram Of Test Setup	39
10.2	Limit.....	39
10.3	Test procedure	39
10.4	Test Result	40
11.	POWER SPECTRAL DENSITY	43
11.1	Block Diagram Of Test Setup	43
11.2	Limit.....	43
11.3	Test procedure	43
11.4	Test Result	44
12.	ANTENNA REQUIREMENT	47
13.	EUT PHOTOGRAPHS.....	48
14.	EUT TEST SETUP PHOTOGRAPHS	49

(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB210114037RFX	Jan. 19, 2021	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Radiated Spurious emissions	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Band edge and RF Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)/15.205(a)	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013/ KDB 558074 D01v04	PASS
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
RF Exposure Evaluation	47 CFR Part 15 Subpart C Section 15.247 (i)/1.1310/2.1093	KDB447498D01v06	PASS

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

3. MEASUREMENT UNCERTAINTY

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

Item	Uncertainty
Occupancy bandwidth	$U=\pm 54.3\text{Hz}$
Conducted output power Above 1G	$U=\pm 1.0\text{dB}$
Conducted output power below 1G	$U=\pm 0.9\text{dB}$
Power Spectral Density , Conduction	$U=\pm 1.0\text{dB}$
Conduction spurious emissions	$U=\pm 2.8\text{dB}$
Out of band emission	$U=\pm 54\text{Hz}$
3m chamber Radiated spurious emission(30MHz-1GHz)	$U=\pm 4.3\text{dB}$
3m chamber Radiated spurious emission(1GHz-18GHz)	$U=\pm 4.5\text{dB}$
humidity uncertainty	$U=\pm 5.3\%$
Temperature uncertainty	$U=\pm 0.59^{\circ}\text{C}$
Supply voltages	$U=\pm 3\%$
Time	$U=\pm 5\%$

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	DZ06, MB-KK0101
Model Description:	All model's the function, software and electric circuit are the same, only with the product Installation Method and model named different. Test sample model: DZ06
Wi-Fi Specification:	IEEE 802.11 b/g
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	WiFi: IEEE 802.11b/g: 2412-24762MHz/ 11 channel
Max. RF output power:	WiFi (2.4G) : 7.993dBm
Type of Modulation:	WiFi: DSSS, OFDM
Antenna installation:	WiFi: Internal Antenna
Antenna Gain:	WiFi (2.4G) : 1.0dBi
Ratings:	DC 5V charging from adapter Battery DC 3.7V 1000mAh

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note

Notes:

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

4.4 Channel List

CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462		

4.5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode	Low channel	Middle channel	High channel
Transmitting(802.11b/g)	2412MHz	2437MHz	2462MHz

NOTE: DutyCycle>98%.

4.6 Test Environment

Humidity(%):	55
Atmospheric Pressure(kPa):	101.1
Normal Voltage(DC):	3.7
Normal Temperature(°C)	25
Low Temperature(°C)	0
High Temperature(°C)	50

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Floor 1&2, Building A, No. 26 of Xinxhe Road, Xinqiao Street, Baoan District, Shenzhen China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

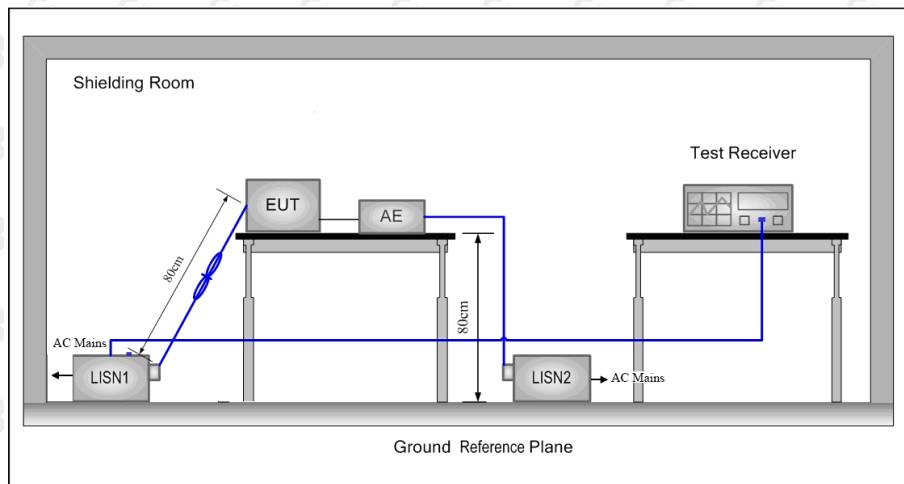
Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	Sep. 28, 2020	Sep. 28, 2021
2	Power Sensor	Agilent	U2021XA	MY56120032	Sep. 28, 2020	Sep. 28, 2021
3	Power Sensor	Agilent	U2021XA	MY56120034	Sep. 28, 2020	Sep. 28, 2021
4	Communication test set	R&S	CMW500	108058	Sep. 28, 2020	Sep. 28, 2021
5	Spectrum Analyzer	R&S	FSP40	100550	Sep. 28, 2020	Sep. 28, 2021
6	Signal Generator	Agilent	N5181A	MY49060920	Sep. 28, 2020	Sep. 28, 2021
7	Signal Generator	Agilent	N5182A	MY47420195	Sep. 28, 2020	Sep. 28, 2021
8	Communication test set	Agilent	E5515C	MY50102567	Oct. 10, 2020	Oct. 10, 2021
9	band rejection filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	Sep. 28, 2020	Sep. 28, 2021
10	band rejection filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	Sep. 28, 2020	Sep. 28, 2021
11	band rejection filter	Xingbo	XBLBQ-DZA 120	190821-1-1	Sep. 28, 2020	Sep. 28, 2021
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	\	\
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	Sep. 28, 2020	Sep. 28, 2021
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	Sep. 28, 2020	Sep. 28, 2021
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	\	\
16	966 chamber	C.R.T.	966 Room	966	Nov. 9, 2019	Nov. 08, 2022

17	Receiver	R&S	ESPI	100362	Sep. 28, 2020	Sep. 28, 2021
18	Amplifier	HP	8447E	2945A02747	Sep. 28, 2020	Sep. 28, 2021
19	Amplifier	Agilent	8449B	3008A01838	Sep. 28, 2020	Sep. 28, 2021
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	Nov. 02, 2020	Nov. 01, 2021
21	Horn Antenna	Schwarzbeck	BBHA9120D	1911	Nov. 02, 2020	Nov. 01, 2021
22	Software	Fala	EZ-EMC	FA-03A2 RE	\	\
23	3-Loop Antenna	Daze	ZN30401	17014	Sep. 28, 2020	Sep. 28, 2021
24	loop antenna	ZHINAN	ZN30900A	/	Sep. 28, 2020	Sep. 28, 2021
25	Horn antenna	A/H/System	SAS-574	588	Sep. 28, 2020	Sep. 28, 2021
26	Amplifier	AEROFLEX	/	S/N/ 097	Sep. 28, 2020	Sep. 28, 2021

Conducted emissions Test						
	Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
27	AMN	ROHDE&SC HWARZ	ESH3-Z5	100318	Sep. 28, 2020	Sep. 28, 2021
29	Pulse limiter	ROHDE&SC HWARZ	ESH3Z2	357881052	Sep. 28, 2020	Sep. 28, 2021
30	EMI TEST RECEIVER	ROHDE&SC HWARZ	ESCS30	834115/006	Sep. 28, 2020	Sep. 28, 2021
31	Coaxial cable	ZDECL	Z302S	18091804	Sep. 28, 2020	Sep. 28, 2021
32	ISN	TESEQ	NTFM8158	183	Sep. 28, 2020	Sep. 28, 2021
33	EMI TEST RECEIVER	ROHDE&SC HWARZ	ESCI	100428/003	Sep. 28, 2020	Sep. 28, 2021
34	Software	Fala	EZ-EMC	EMC-CON 3A1.1	\	\

6. AC POWER LINE CONDUCTED EMISSION

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

6.3 Test procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0,4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was

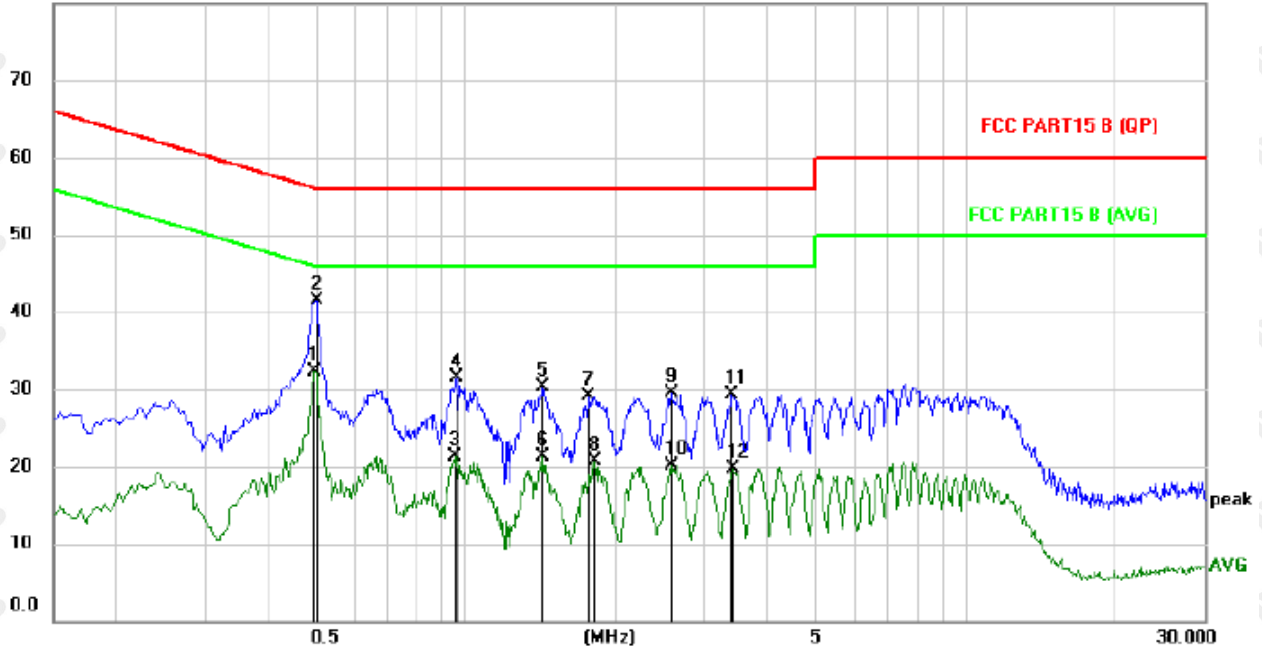
between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2.

- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

6.4 Test Result

Test Specification: Line
AC 120V 60Hz

80.0 dBuV

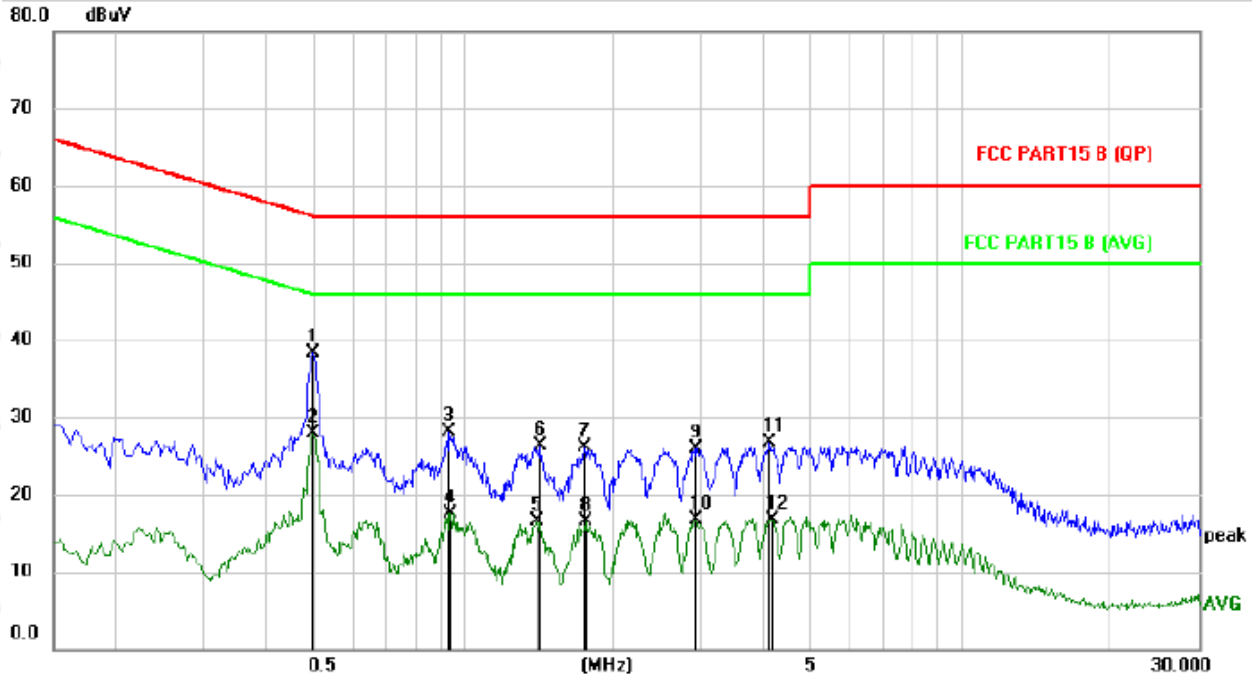


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1	*	0.4980	22.11	10.23	32.34	46.03	-13.69	AVG
2		0.5020	31.37	10.23	41.60	56.00	-14.40	QP
3		0.9580	11.16	10.17	21.33	46.00	-24.67	AVG
4		0.9620	21.27	10.17	31.44	56.00	-24.56	QP
5		1.4260	20.10	10.15	30.25	56.00	-25.75	QP
6		1.4260	11.08	10.15	21.23	46.00	-24.77	AVG
7		1.7700	18.95	10.13	29.08	56.00	-26.92	QP
8		1.8180	10.49	10.13	20.62	46.00	-25.38	AVG
9		2.5780	19.22	10.20	29.42	56.00	-26.58	QP
10		2.5780	9.96	10.20	20.16	46.00	-25.84	AVG
11		3.4100	18.95	10.31	29.26	56.00	-26.74	QP
12		3.4220	9.46	10.31	19.77	46.00	-26.23	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

Test Specification: Neutral
AC 120V 60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1	*	0.4980	28.16	10.05	38.21	56.03	-17.82	QP
2		0.4980	17.79	10.05	27.84	46.03	-18.19	AVG
3		0.9340	17.81	10.21	28.02	56.00	-27.98	QP
4		0.9420	7.37	10.21	17.58	46.00	-28.42	AVG
5		1.4060	6.24	10.23	16.47	46.00	-29.53	AVG
6		1.4220	15.99	10.23	26.22	56.00	-29.78	QP
7		1.7460	15.83	10.23	26.06	56.00	-29.94	QP
8		1.7620	6.20	10.23	16.43	46.00	-29.57	AVG
9		2.9300	15.70	10.29	25.99	56.00	-30.01	QP
10		2.9300	6.44	10.29	16.73	46.00	-29.27	AVG
11		4.1340	16.34	10.34	26.68	56.00	-29.32	QP
12		4.1460	6.41	10.34	16.75	46.00	-29.25	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

7. RADIATED SPURIOUS EMISSION

7.1 Block Diagram Of Test Setup

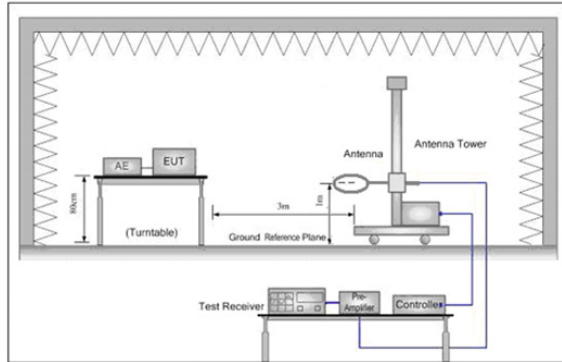


Figure 1. Below 30MHz

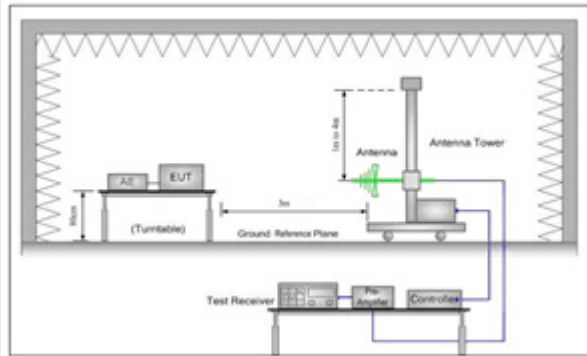


Figure 2. 30MHz to 1GHz

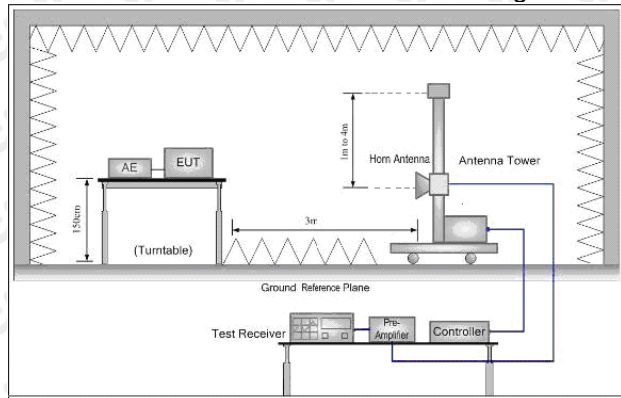


Figure 3. Above 1GHz

7.2 Limit

Spurious Emissions:

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F (kHz)	-	-	300
0.490MHz-1.705MHz	24000/F (kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

7.3 Test procedure

Below 1GHz test procedure as below:

- a.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.
- b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c.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.
- d.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 rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f.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:

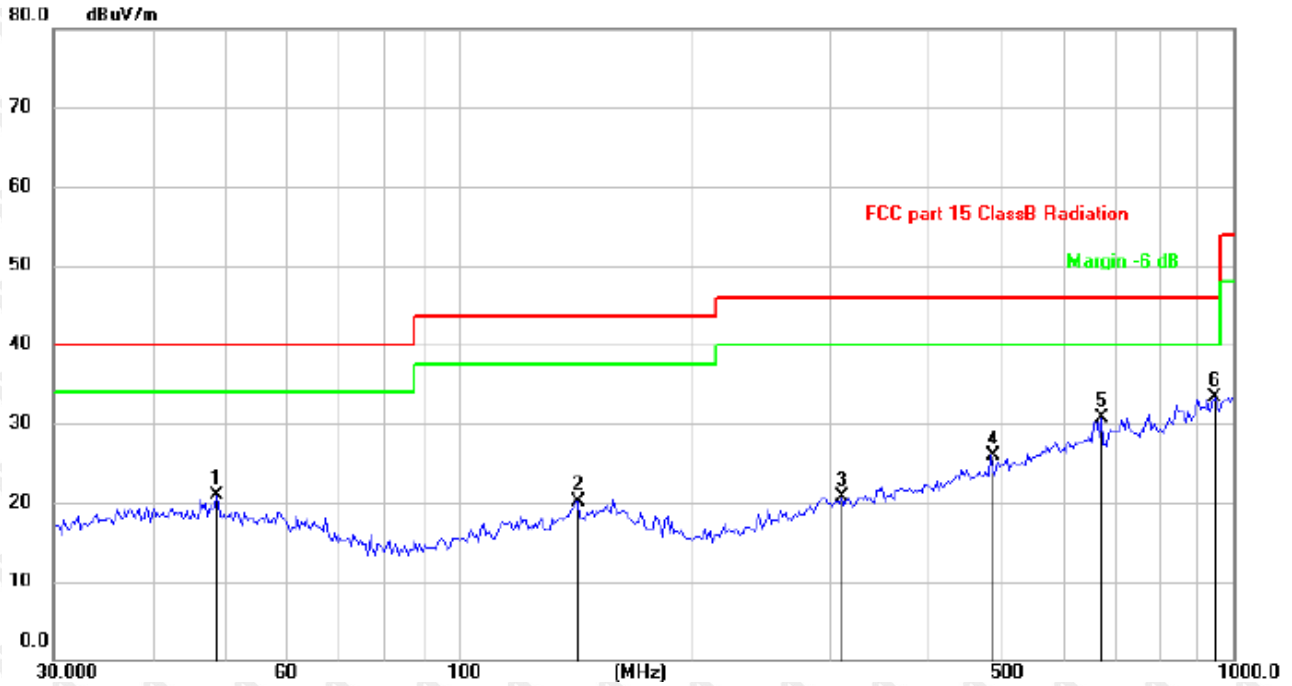
- g.Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h.Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- j.Repeat above procedures until all frequencies measured was complete.

Receiver set:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

7.4 Test Result

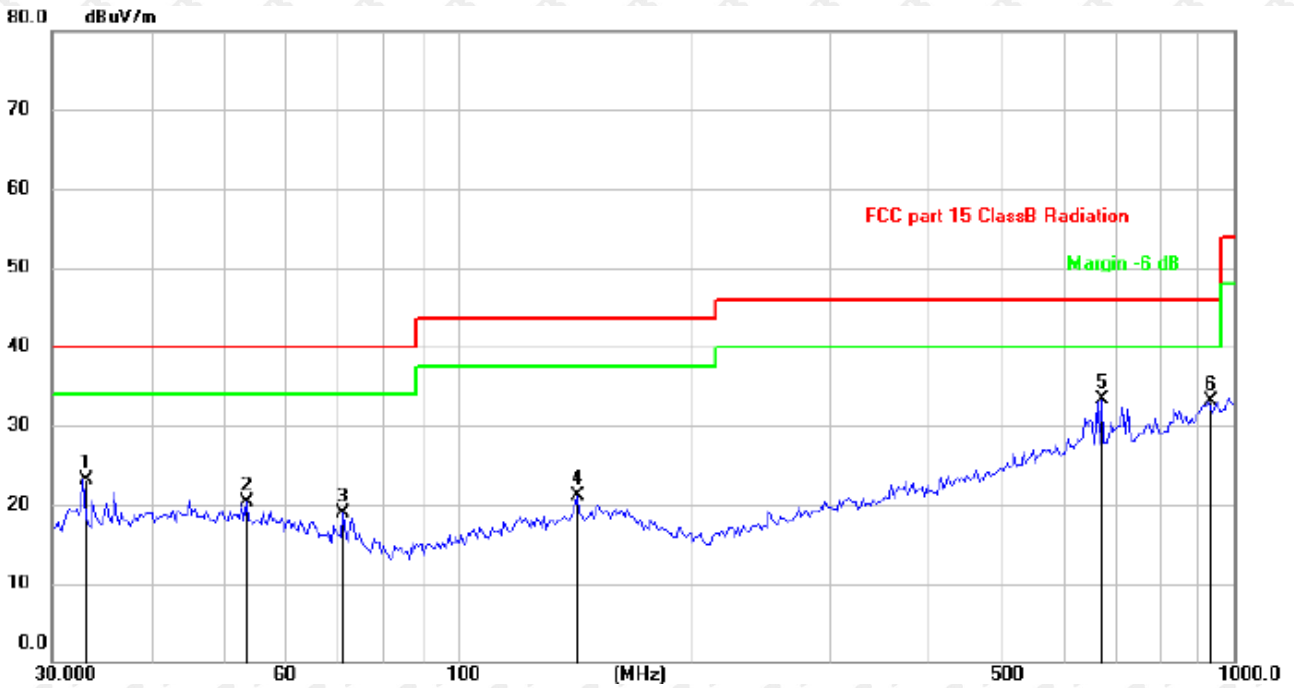
Below 1GHz Test Results:
Antenna polarity: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Margin dB	Detector
1		48.6719	27.61	-6.67	20.94	40.00	-19.06	QP
2		142.3243	26.75	-6.65	20.10	43.50	-23.40	QP
3		312.1794	26.29	-5.59	20.70	46.00	-25.30	QP
4		485.6093	27.41	-1.51	25.90	46.00	-20.10	QP
5		675.2080	27.57	3.21	30.78	46.00	-15.22	QP
6	*	945.4399	26.32	6.93	33.25	46.00	-12.75	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Antenna polarity: V



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Margin dB	Detector
1		32.8637	30.72	-7.65	23.07	40.00	-16.93	QP
2		53.3179	27.26	-6.99	20.27	40.00	-19.73	QP
3		71.0803	28.37	-9.51	18.86	40.00	-21.14	QP
4		142.3243	27.80	-6.65	21.15	43.50	-22.35	QP
5	*	675.2080	30.00	3.21	33.21	46.00	-12.79	QP
6		925.7563	26.42	6.73	33.15	46.00	-12.85	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Above 1 GHz Test Results:

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4824	65.20	-3.64	61.56	74	-12.44	peak
4824	50.93	-3.64	47.29	54	-6.71	AVG
7236	57.71	-0.95	56.76	74	-17.24	peak
7236	44.54	-0.95	43.59	54	-10.41	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4824	66.84	-3.64	63.20	74	-10.80	peak
4824	46.77	-3.64	43.13	54	-10.87	AVG
7236	56.58	-0.95	55.63	74	-18.37	peak
7236	42.99	-0.95	42.04	54	-11.96	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	65.28	-3.51	61.77	74	-12.23	peak
4874	49.75	-3.51	46.24	54	-7.76	AVG
7311	59.21	-0.82	58.39	74	-15.61	peak
7311	45.18	-0.82	44.36	54	-9.64	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	65.56	-3.51	62.05	74	-11.95	peak
4874	49.07	-3.51	45.56	54	-8.44	AVG
7311	60.17	-0.82	59.35	74	-14.65	peak
7311	44.31	-0.82	43.49	54	-10.51	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	63.58	-3.43	60.15	74	-13.85	peak
4924	46.30	-3.43	42.87	54	-11.13	AVG
7386	57.15	-0.75	56.40	74	-17.60	peak
7386	45.07	-0.75	44.32	54	-9.68	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	62.75	-3.43	59.32	74	-14.68	peak
4924	47.76	-3.43	44.33	54	-9.67	AVG
7386	58.59	-0.75	57.84	74	-16.16	peak
7386	42.49	-0.75	41.74	54	-12.26	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	65.45	-3.64	61.81	74	-12.19	peak
4824	49.11	-3.64	45.47	54	-8.53	AVG
7236	58.43	-0.95	57.48	74	-16.52	peak
7236	45.22	-0.95	44.27	54	-9.73	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	62.48	-3.64	58.84	74	-15.16	peak
4824	47.77	-3.64	44.13	54	-9.87	AVG
7236	58.80	-0.95	57.85	74	-16.15	peak
7236	43.19	-0.95	42.24	54	-11.76	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4874	64.34	-3.51	60.83	74	-13.17	peak
4874	48.76	-3.51	45.25	54	-8.75	AVG
7311	58.49	-0.82	57.67	74	-16.33	peak
7311	43.80	-0.82	42.98	54	-11.02	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4874	63.77	-3.51	60.26	74	-13.74	peak
4874	48.56	-3.51	45.05	54	-8.95	AVG
7311	56.12	-0.82	55.30	74	-18.70	peak
7311	42.07	-0.82	41.25	54	-12.75	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4924	63.28	-3.43	59.85	74	-14.15	peak
4924	49.99	-3.43	46.56	54	-7.44	AVG
7386	57.08	-0.75	56.33	74	-17.67	peak
7386	42.64	-0.75	41.89	54	-12.11	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4924	63.32	-3.43	59.89	74	-14.11	peak
4924	47.32	-3.43	43.89	54	-10.11	AVG
7386	57.48	-0.75	56.73	74	-17.27	peak
7386	43.06	-0.75	42.31	54	-11.69	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

Restricted bands around fundamental frequency (Radiated)

Operation Mode:
802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2390	56.39	-5.81	50.58	74	-23.42	peak
2390	/	-5.81	/	54	/	AVG
2399	63.28	-5.84	57.44	74	-16.56	peak
2399	48.21	-5.84	42.37	54	-11.63	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2390	56.73	-5.81	50.92	74	-23.08	peak
2390	/	-5.81	/	54	/	AVG
2399	62.75	-5.84	56.91	74	-17.09	peak
2399	47.79	-5.84	41.95	54	-12.05	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	56.85	-5.65	51.20	74	-22.80	peak
2483.5	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	57.11	-5.65	51.46	74	-22.54	peak
2483.5	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2390	58.58	-5.81	52.77	74	-21.23	peak
2390	/	-5.81	/	54	/	AVG
2399	63.39	-5.84	57.55	74	-16.45	peak
2399	47.26	-5.84	41.42	54	-12.58	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2390	56.82	-5.81	51.01	74	-22.99	peak
2390	/	-5.81	/	54	/	AVG
2399	61.49	-5.84	55.65	74	-18.35	peak
2399	45.68	-5.84	39.84	54	-14.16	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor,
Margin = Emission level - Limits

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.5	56.41	-5.65	50.76	74	-23.24	peak
2483.5	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

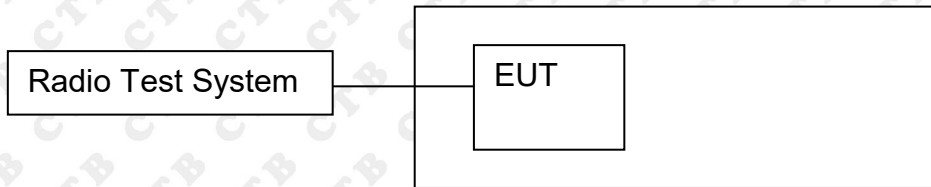
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.5	57.97	-5.65	52.32	74	-21.68	peak
2483.5	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

8. BAND EDGE AND RF CONDUCTED SPURIOUS EMISSIONS

8.1 Block Diagram Of Test Setup



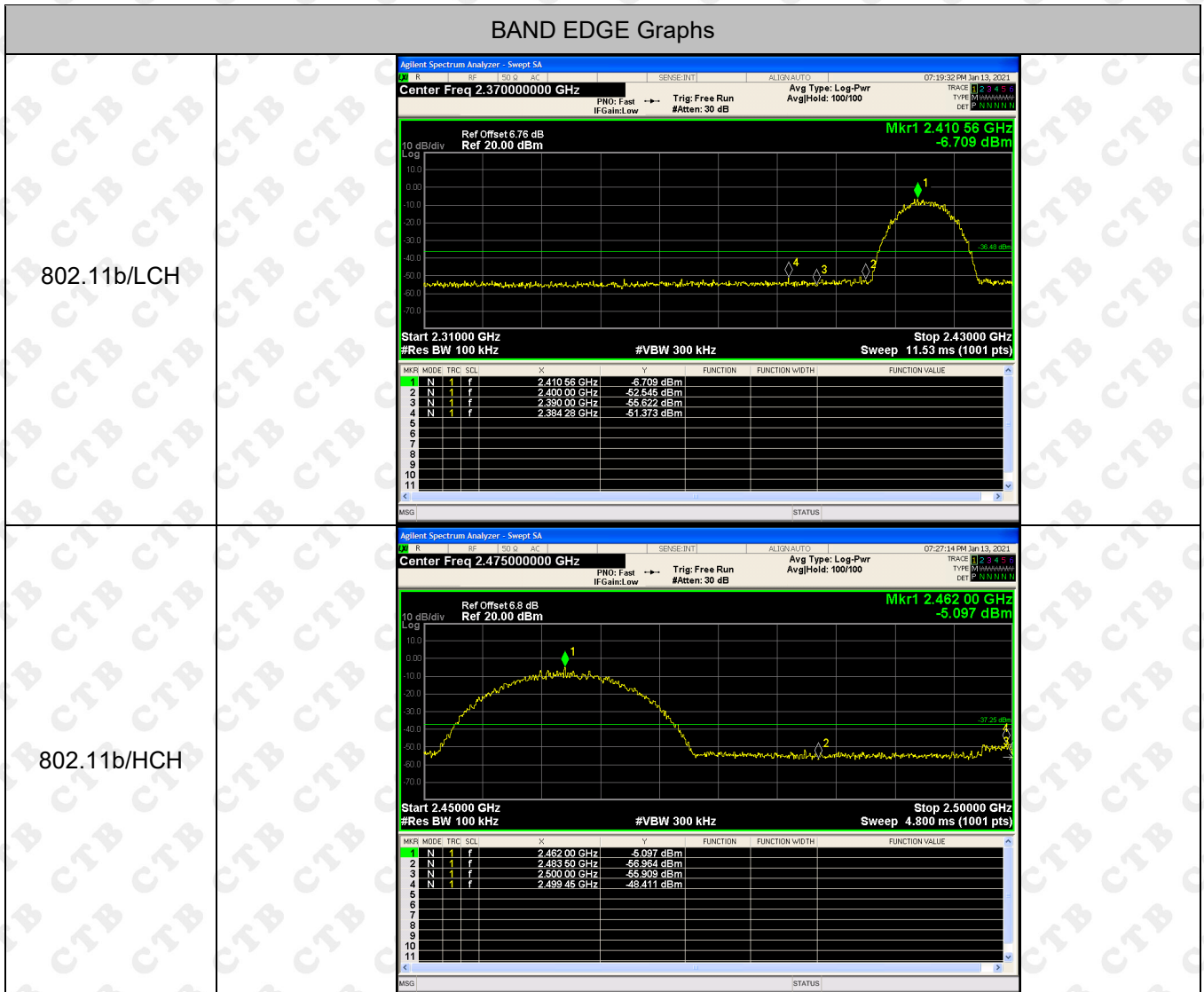
8.2 Limit

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 §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)).

8.3 Test procedure

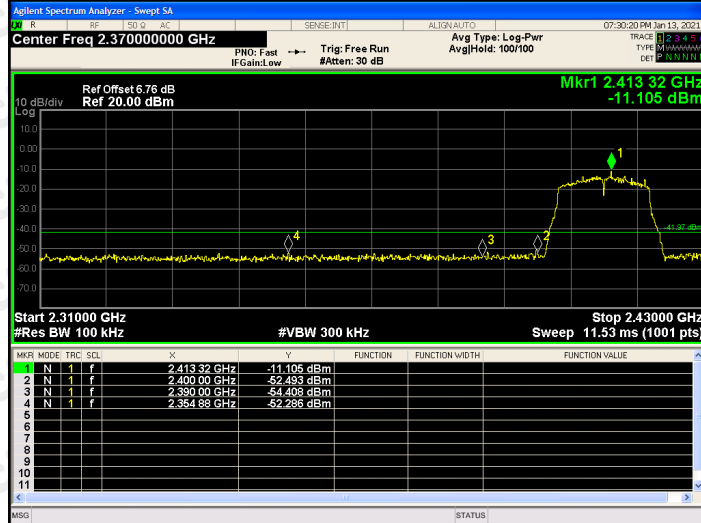
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
Below 30MHz:
RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold
Above 30MHz:
RBW = 100KHz, VBW = 300KHz, Sweep = auto
Detector function = peak, Trace = max hold

8.4 Test Result

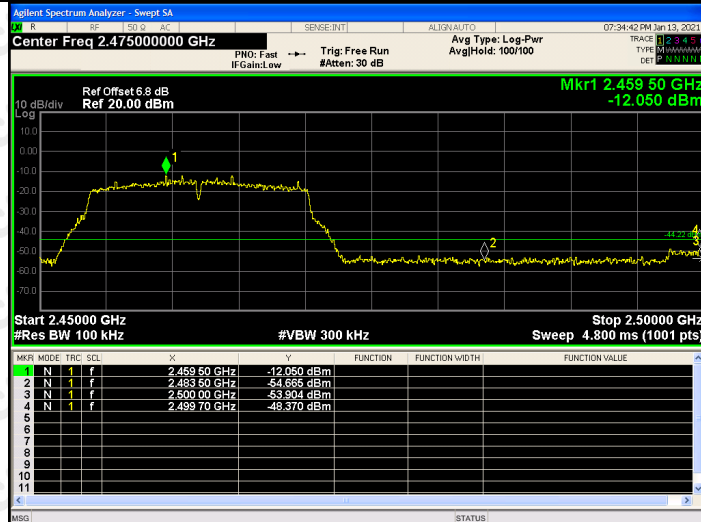


BAND EDGE Graphs

802.11g/LCH

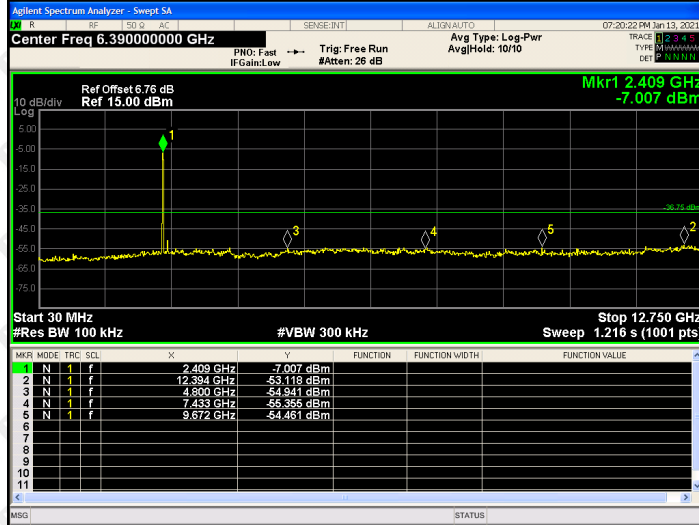


802.11g/HCH

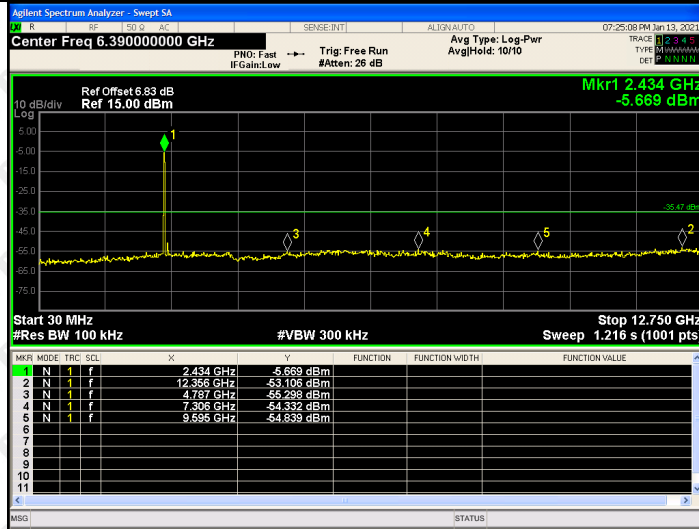


RF Conducted Spurious Emissions Graphs

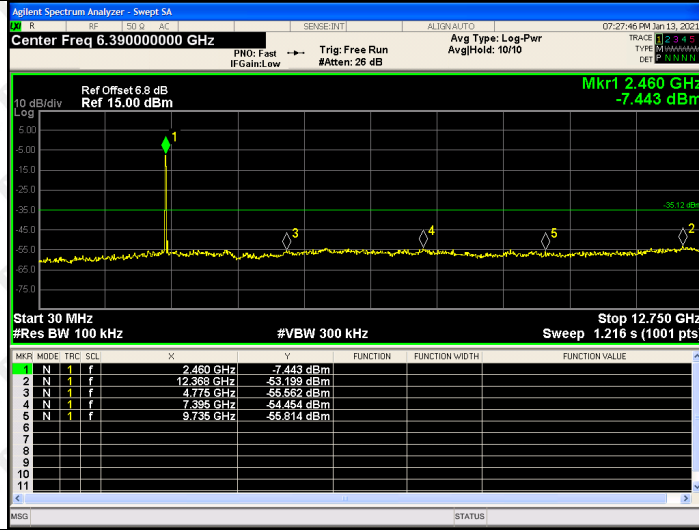
802.11b
/LCH



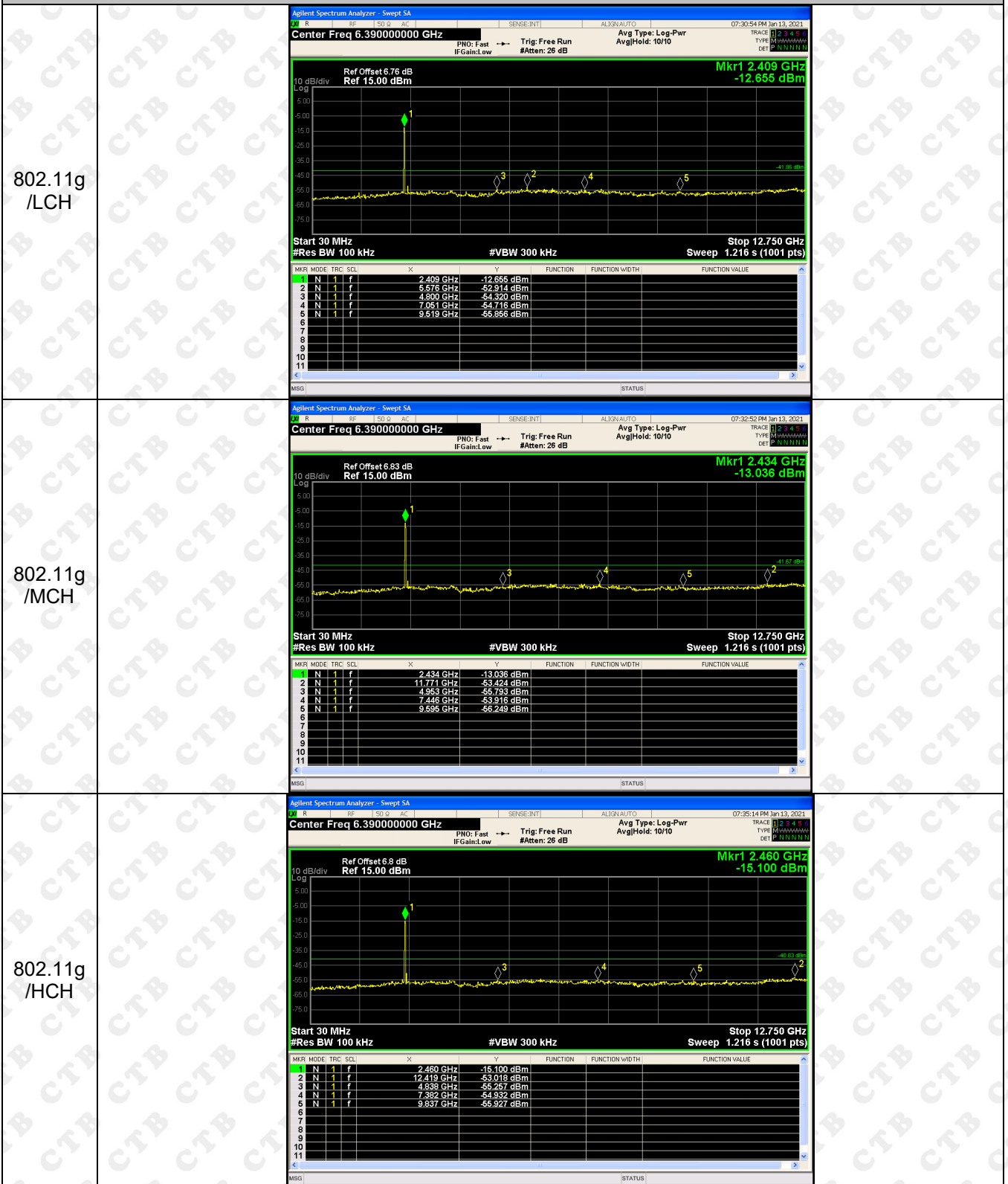
802.11b
/MCH



802.11b
/HCH

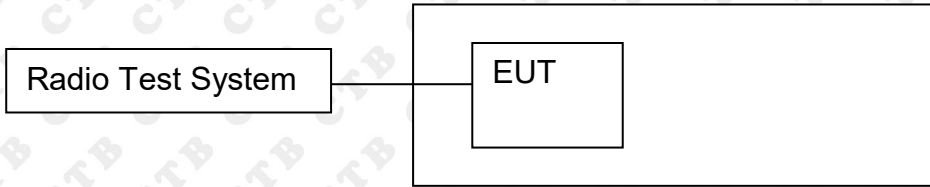


RF Conducted Spurious Emissions Graphs



9. COUDUCTED OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

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

9.3 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 = 1MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak. Channel power function is used
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

9.4 Test Result

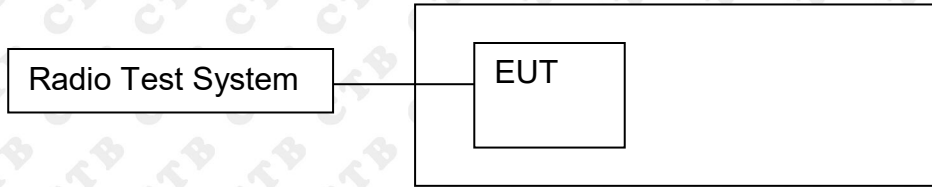
Mode	Channel.	Peak Output Power [dBm]	Limit[dBm]	Verdict
802.11b	LCH	7.993	30	PASS
	MCH	7.307	30	PASS
	HCH	7.494	30	PASS
802.11g	LCH	6.428	30	PASS
	MCH	6.477	30	PASS
	HCH	6.072	30	PASS

Mode	Channel.	Maximum Output Power [dBm]
	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.41200000 GHz Ref Offset: 6.76 dB, Ref: 26.76 dBm Channel Power: 7.99 dBm / 20 MHz Power Spectral Density: -65.02 dBm / Hz</p>
802.11b	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.43700000 GHz Ref Offset: 6.83 dB, Ref: 26.83 dBm Channel Power: 7.31 dBm / 20 MHz Power Spectral Density: -65.70 dBm / Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.46200000 GHz Ref Offset: 6.8 dB, Ref: 26.80 dBm Channel Power: 7.49 dBm / 20 MHz Power Spectral Density: -65.52 dBm / Hz</p>

	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Channel Power: 6.43 dBm / 20 MHz Power Spectral Density: -66.58 dBm / Hz</p>
802.11g	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Channel Power: 6.48 dBm / 20 MHz Power Spectral Density: -66.53 dBm / Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.462000000 GHz Channel Power: 6.07 dBm / 20 MHz Power Spectral Density: -66.94 dBm / Hz</p>

10. 6DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 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

10.3 Test procedure

1. Rem1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
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.

10.4 Test Result

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	9.025	500	PASS
	MCH	8.412	500	PASS
	HCH	8.668	500	PASS
802.11g	LCH	13.501	500	PASS
	MCH	15.106	500	PASS
	HCH	14.134	500	PASS

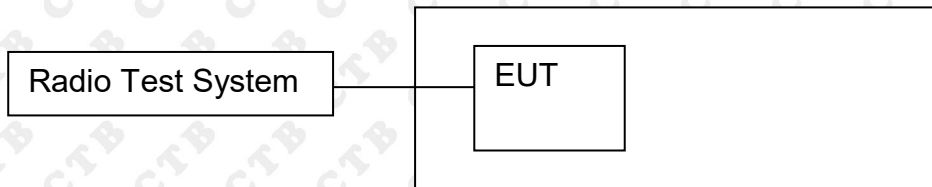
Test Graph:

Graphs													
802.11b /LCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Ref Offset: 6.76 dB Ref: 26.76 dBm</p> <p>Mkr3 2.416505 GHz -12.459 dBm</p> <p>Center: 2.412 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 3.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>9.21 dBm</td> </tr> <tr> <td colspan="3" style="text-align: center;">13.943 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	9.21 dBm	13.943 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	9.21 dBm											
13.943 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
802.11b /MCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz</p> <p>Ref Offset: 6.83 dB Ref: 26.83 dBm</p> <p>Mkr3 2.441226 GHz -13.892 dBm</p> <p>Center: 2.437 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 3.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>8.40 dBm</td> </tr> <tr> <td colspan="3" style="text-align: center;">14.023 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	8.40 dBm	14.023 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	8.40 dBm											
14.023 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
802.11b/HCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset: 6.9 dB Ref: 26.90 dBm</p> <p>Mkr3 2.466304 GHz -13.202 dBm</p> <p>Center: 2.462 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 3.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>8.65 dBm</td> </tr> <tr> <td colspan="3" style="text-align: center;">13.974 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	8.65 dBm	13.974 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	8.65 dBm											
13.974 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											

<p>802.11g/LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.41200000 GHz Center Freq: 2.41200000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 6.76 dB Ref: 26.76 dBm Mkr3: 2.418756 GHz -19.180 dBm</p> <p>Center: 2.412 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 3.333 ms</p> <p>Occupied Bandwidth: 16.297 MHz Total Power: 4.87 dBm Transmit Freq Error: 5.874 kHz x dB Bandwidth: 13.50 MHz OBW Power: 99.00 % x dB: -6.00 dB</p>
<p>802.11g/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.43700000 GHz Center Freq: 2.43700000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 6.83 dB Ref: 26.83 dBm Mkr3: 2.444563 GHz -20.065 dBm</p> <p>Center: 2.437 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 3.333 ms</p> <p>Occupied Bandwidth: 16.324 MHz Total Power: 4.92 dBm Transmit Freq Error: 9.868 kHz x dB Bandwidth: 15.11 MHz OBW Power: 99.00 % x dB: -6.00 dB</p>
<p>802.11g/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.46200000 GHz Center Freq: 2.46200000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 6.8 dB Ref: 26.80 dBm Mkr3: 2.46906 GHz -19.005 dBm</p> <p>Center: 2.462 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 3.333 ms</p> <p>Occupied Bandwidth: 16.320 MHz Total Power: 4.38 dBm Transmit Freq Error: -7.409 kHz x dB Bandwidth: 14.13 MHz OBW Power: 99.00 % x dB: -6.00 dB</p>

11. POWER SPECTRAL DENSITY

11.1 Block Diagram Of Test Setup



11.2 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

11.3 Test procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = PEAK.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

11.4 Test Result

Mode	Channel.	Power Spectral Density [dBm /3KHz]	Limit(8 dBm (in any 3KHz))	Verdict
802.11b	LCH	-20.614	8	PASS
	MCH	-21.96	8	PASS
	HCH	-20.754	8	PASS
802.11g	LCH	-25.85	8	PASS
	MCH	-26.618	8	PASS
	HCH	-27.336	8	PASS

Test Graph

Graphs	
802.11b /LCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 6.76 dB Ref 20.00 dBm Mkr1 2.413 71 GHz -20.614 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
802.11b /MCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 6.83 dB Ref 20.00 dBm Mkr1 2.438 71 GHz -21.960 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
802.11b/HCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 6.8 dB Ref 20.00 dBm Mkr1 2.463 71 GHz -20.754 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>

<p>802.11g/LCH</p>		
<p>802.11g/MCH</p>		
<p>802.11g/HCH</p>		

12. ANTENNA REQUIREMENT

15.203 requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 1.0dBi.

13. EUT PHOTOGRAPHS

EUT Photo 1

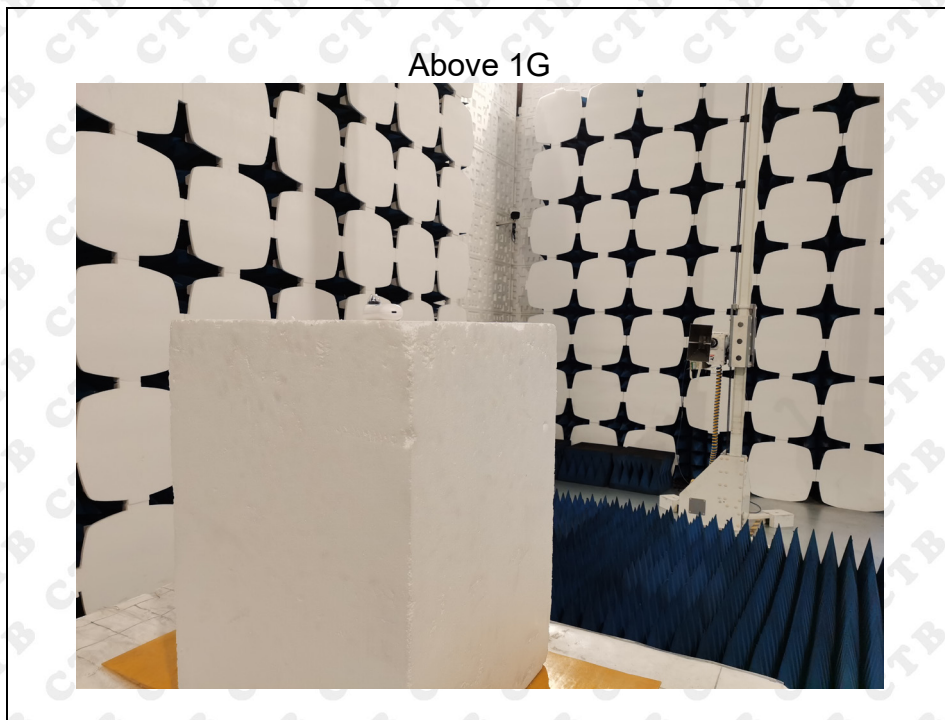
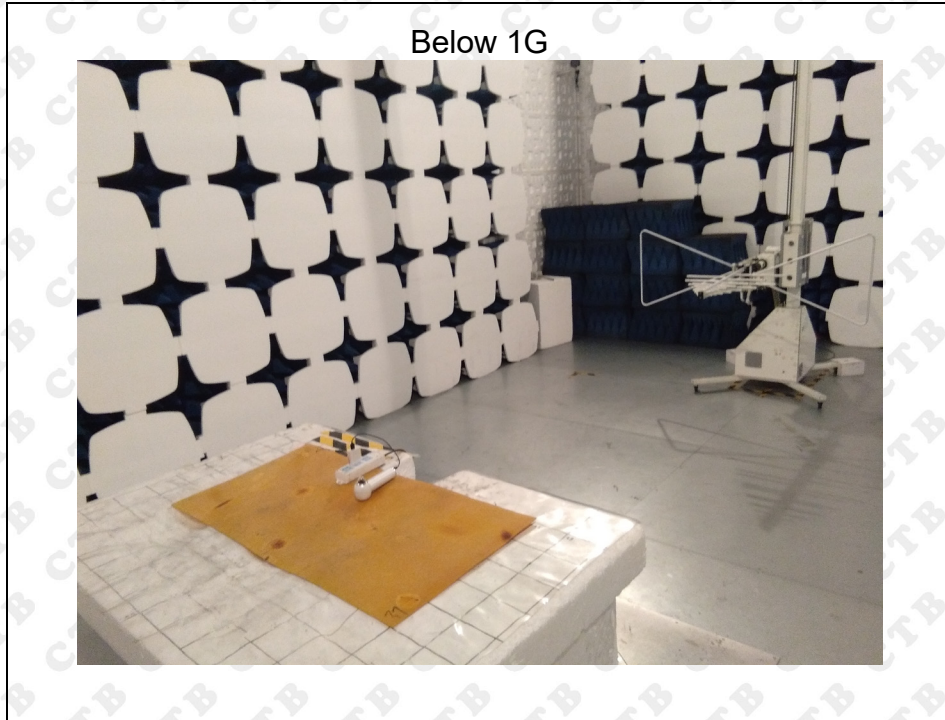


EUT Photo 2



14. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission



Conducted Emission

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