

FCC TEST REPORT (WIFI 2.4G)

for

Dongguan Meiloon Acoustic Equipments Co., Ltd.

active loudspeaker

Model Number: PW300

FCC ID: 2AJAAPW300BT

IC :21761PW300BT

Prepared for : Dongguan Meiloon Acoustic Equipments Co., Ltd.
Address : 77, Yuanlin Road Fenghuanggang Ind, Estate, Tangxia Town,
523727 Dongguan City, Guangdong Province,
PEOPLE'S REPUBLIC OF CHINA.

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Report No. : 17KWE065449F
Date of Test : June. 01~16, 2017
Date of Report : June. 17, 2017

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Keyway Testing Technology Co., Ltd.

Applicant:	Dongguan Meiloon Acoustic Equipments Co., Ltd. 77, Yuanlin Road Fenghuanggang Ind, Estate, Tangxia Town, 523727 Dongguan City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA.		
Manufacturer:	Paradigm Electronics Inc. 205 Annagem Blvd, Mississauga, L5T2V1, Canada		
Factor:	Dongguan Meiloon Acoustic Equipments Co., Ltd. 77, Yuanlin Road Fenghuanggang Ind, Estate, Tangxia Town, 523727 Dongguan City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA.		
E.U.T:	active loudspeaker		
Model Number:	PW300		
Trade Name:	Paradigm	Serial No.:	-----
Date of Receipt:	Apr. 06, 2017	Date of Test:	June. 01~16, 2017
Test Specification:	FCC Part 15, Subpart 15.247: Oct. 1, 2016 ANSI C63.10:2013 KDB558074 D01 DTS Meas Guidance v03r05 RSS-247 Issue 2,2017 RSS-Gen Issue 4 November 2014		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
Issue Date: June. 17, 2017			
Tested by:	Reviewed by:	Approved by:	
		 Andy Gao / Supervisor	
Keven Wu / Engineer	Mark Li / Supervisor		
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
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 Keyway Testing Technology Co., Ltd.			

1.TEST SUMMARY

Test Items	Test Requirement	Result
Conducted Emissions	15.207/RSS-Gen§8.8/ RSS-247 3.1	PASS
Radiated Emissions	15.205(a)/15.209/15.247(d)/ RSS-Gen §6.13	PASS
6dB&99% Bandwidth	15.247(a)(2)/RSS-247 §5.2	PASS
Power density	15.247(e)/RSS-247 §5.2(2)	PASS
Maximum Peak Output Power	15.247(b)/ /RSS-247 § 5.4/ RSS-Gen § 6.12	PASS
Duty Cycle	KDB558074 e6.0(b)	PASS
Emissions from out of band	15.247(d)/RSS-247 §5.5	PASS
Antenna Requirement	15.203/RSS-247 §5.4	PASS

2.GENERAL PRODUCT INFORMATION

2.1. Product Function

Refer to Technical Construction Form and User Manual.

2.2. Description of Device (EUT)

Product Name:	active loudspeaker
Model No.:	PW300
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)); 2422MHz~2452MHz (802.11n(HT40))
Channel numbers:	11 for 802.11b/802.11g/802.11n(HT20); 9 for 802.11n(HT40)
Modulation technology:	Direct Sequence Spread Spectrum (DSSS) for (IEEE 802.11b) Orthogonal Frequency Division Multiplexing(OFDM) for (IEEE 802.11g/802.11n)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 300Mbps
Antenna Type:	Internal Antenna*2
Antenna gain:	3.3dBi;
Power supply:	AC 100-240V, 50/60Hz

2.3. Independent Operation Modes

The basic operation modes are:

2.3.1. EUT work WiFi TX mode, and frequency as below:

Mode 1	802.11b	Frequency
		2412MHz
		2437MHz
		2462MHz
Mode 2	802.11g	2412MHz
		2437MHz
		2462MHz
Mode 3	802.11n(HT20)	2412MHz
		2437MHz
		2462MHz
Mode 4	802.11n(HT40)	2422MHz
		2437MHz
		2452MHz
Mode 5		LINK Mode

Remark: 802.11b data speed:1Mbps, 2Mbps, 5.5Mbps, 11Mbps; 802.11g data speed:6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps; 802.11n(HT20)/N(40) data speed:MCS0, MCS1,MCS2, MCS3, MCS4, MCS5, MCS6, MCS7. According to ANSI C63.10 standards, the test results was the "worst case" 1Mbps for 802.11b, 6Mbps for 802.11g, MCS0 for 802.11n(HT20)/n(HT40) and its data have been recorded in this report.

2.4. Product Version

Product SW version	V5.17
Product HW version	PW300_main
Radio SW version	4.4
Radio HW version	VT2.1
Test SW Version	Terminal tool
RF power setting in TEST SW	802.11b:10.85dBm, 802.11g:9.84dBm, 802.11n(20):11.77dBm, 802.11n(40):10.88dBm,

Note: SW means software, HW means hardware.

2.5. Test Supporting System

Notebook
Manufacturer: Lenovo
M/N: Lenovo G475
S/N: GB14477457

2.6. TEST SITES

2.6.1. Test Facilities

Lab Qualifications : Certificated by Industry Canada
Registration No.: 9868A
Date of registration: December 8, 2011

Certificated by FCC, USA
Registration No.: 370994
Date of registration: February 21, 2012

Certificated by CNAS China
Registration No.: CNAS L5783
Date of registration: August 8, 2012

2.7.List of Test and Measurement Instruments

2.7.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr. 09,17	Apr. 09,18
Artificial Mains Network	Rohde&Schwarz	ENV216	101315	Apr. 09,17	Apr. 09,18
RF Cable	FUJIKURA	3D-2W	944 Cable	Apr. 09,17	Apr. 09,18

2.7.2. For radiated emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr. 08,17	Apr. 08,18
Bilog Antenna	ETS-LINDGREEN	3142D	135452	Apr. 09,17	Apr. 09,18
Spectrum Analyzer	Agilent	E4411B	MY4511304	Apr. 08,17	Apr. 08,18
3m Semi-anechoic Chamber	ETS-LINDGREEN	966	KW01	Apr. 23,17	Apr. 23,18
Signal Amplifier	SONOMA	310	187016	Apr. 08,17	Apr. 08,18
Signal Amplifier	Agilent	8449B	3008A00251	Apr. 08,17	Apr. 08,18
RF Cable	IMRO	IMRO-400	966 Cable 1#	N/A	N/A
MULTI-DEVICE Controller	ETS-LINDGREEN	2090	126913	N/A	N/A
Horn Antenna	SCHWARZBECK	BBHA9170	9170-068	Apr. 09,17	Apr. 09,18
Spectrum Analyzer	Agilent	E4408B	MY44211125	Apr. 08,17	Apr. 08,18
High Pass filter	Micro	HPM50111	324216	Apr. 08,17	Apr. 08,18
Constant temperature and humidity box	GF	GTH-800-40-1P	MAA9906-005	Apr. 08,17	Apr. 08,18
Attenuation	MCE	24-10-34	BN9258	Apr. 08,17	Apr. 08,18
Loop Antenna	ARA	PLA-1030/B	1029	Apr. 08,17	Apr. 08,18
Power Meter	Anritsu	ML2495A	1204003	Apr. 08,17	Apr. 08,18
Power Sensor	Anritsu	MA2411B	1126150	Apr. 08,17	Apr. 08,18

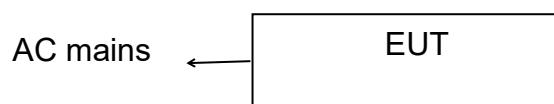
3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



(EUT:active loudspeaker)

3.3. Test Software

Final Test Mode	Description
Test Software	Terminal tool

3.4. Special Accessories and Auxiliary Equipment

Notebook
Manufacturer: Lenovo
M/N: Lenovo G475
S/N: GB14477457

3.5. Countermeasures to Achieve EMC Compliance

None.

4. EMISSION TEST RESULTS

4.1. Conducted Emission at the Mains Terminals Test

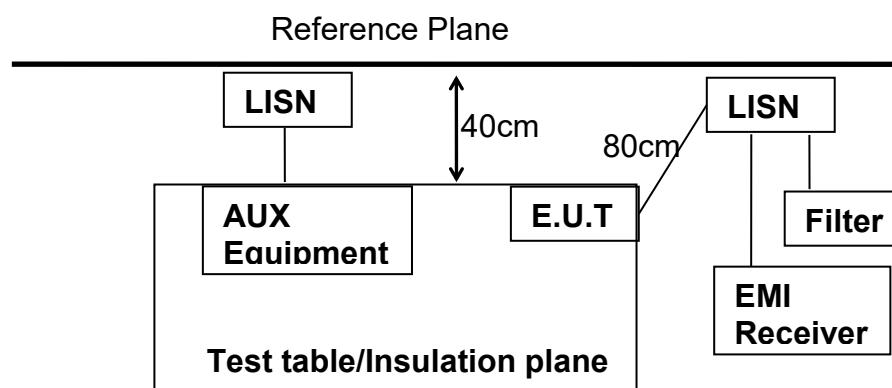
4.1.1. Limit 15.209 limits

Frequency MHz	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

NOTE: 1.The lower limit shall apply at the transition frequencies.
2.The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.

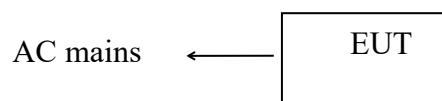
4.1.2. Test Setup

- 1.The EUT was put on a wooden table which was 0.8 m high above the ground and connected to the AC mains through the Artificial Mains Network (AMN). Where the mains cable supplied by the manufacture was longer than 0.8 m, the excess was folded back and forth parallel to the cable at the center so as to form a bundle no longer than 0.4 m.
- 2.The EUT was kept 0.4 m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during the conducted emission test.
- 3.The frequency range from 150 kHz to 30 MHz was investigated.
- 4.The bandwidth of the test receiver was set at 9 kHz.
- 5.Pretest for all mode, The test data of the worst case condition(s) was reported on the following page.

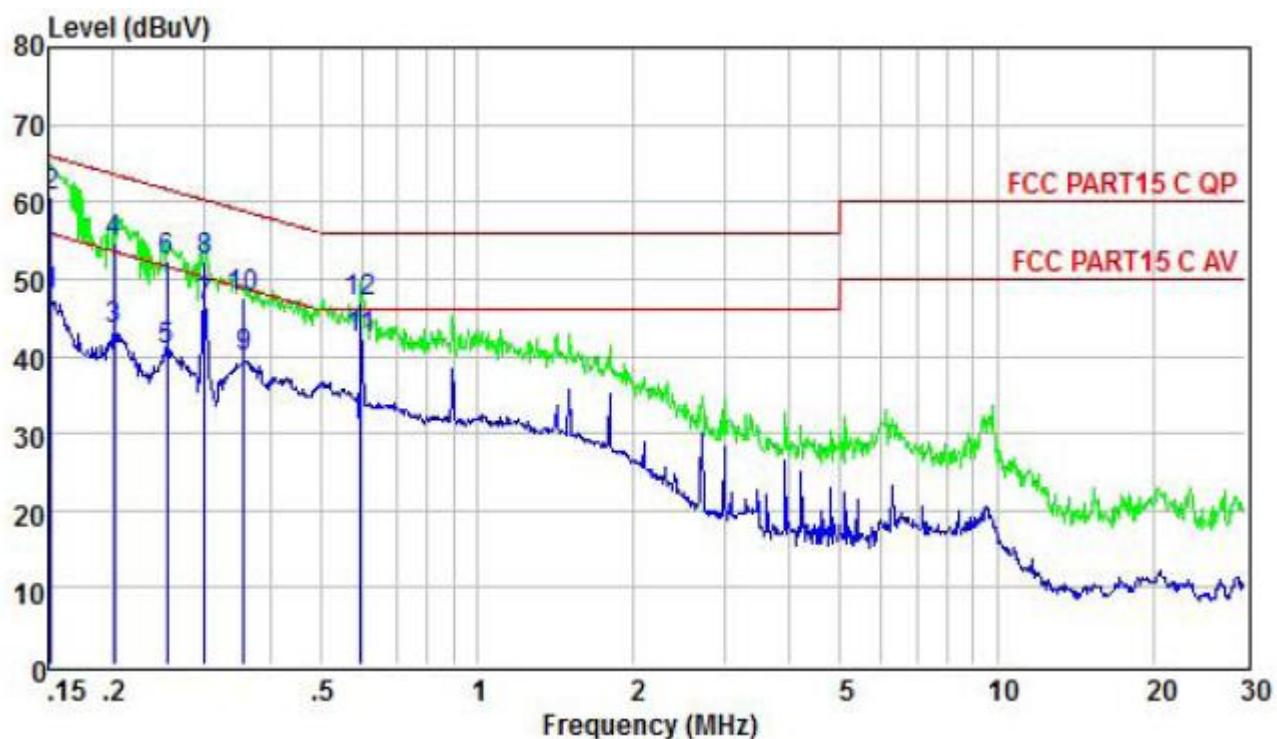


Remark: E.U.T. :Equipment Under Test
LISN: Line Impedance Stabilization Network
Test table height: 0.8m.

Test block

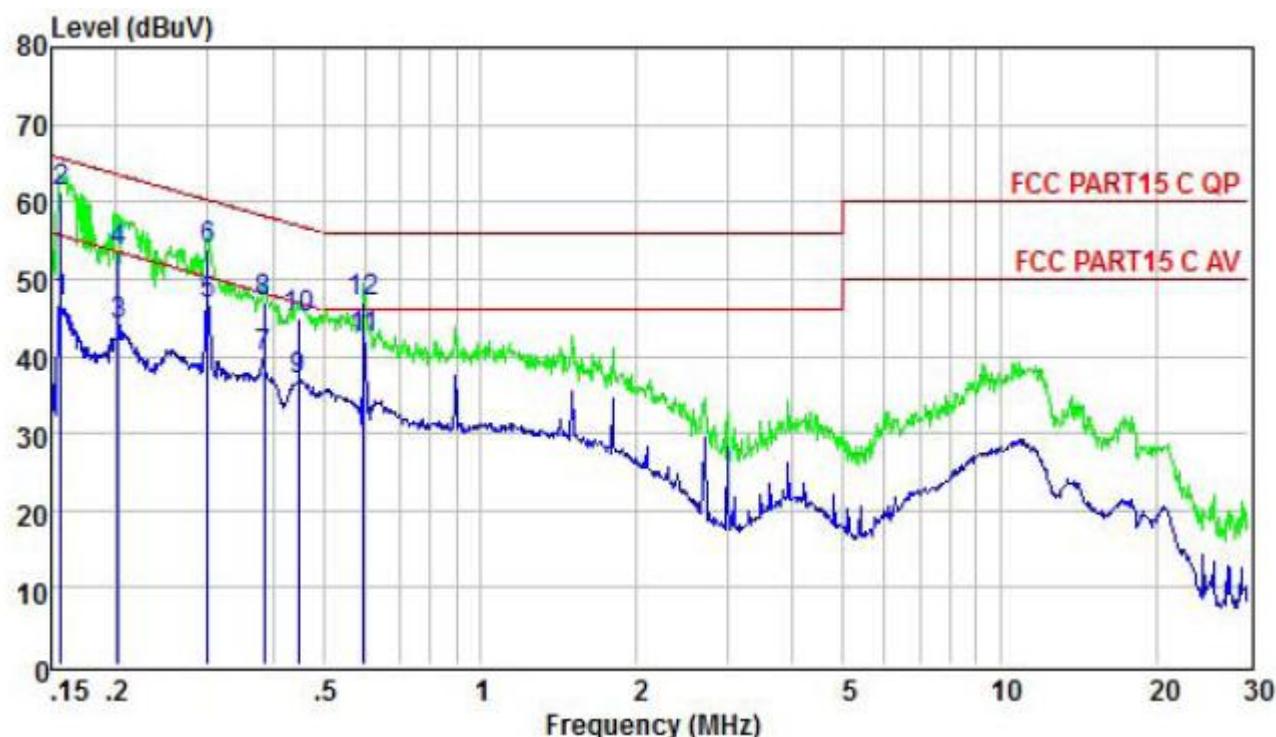


EUT :	active loudspeaker	Model Name :	PW300
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 5



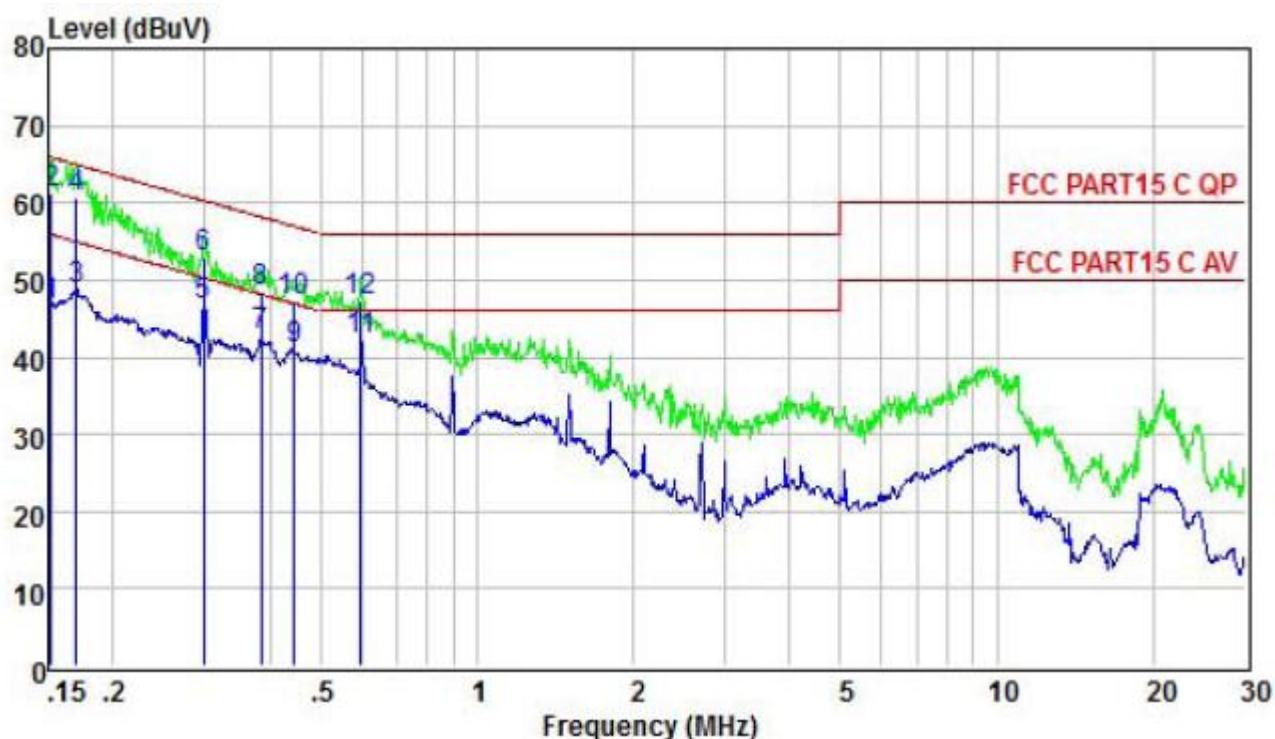
Freq	Level	Limit	Over	Remark
		Line	Limit	
MHz	dBuV	dBuV	dB	
1	0.152	48.02	55.91	-7.89 Average
2	0.152	60.73	65.91	-5.18 QP
3	0.201	43.45	53.58	-10.13 Average
4	0.201	54.61	63.58	-8.97 QP
5	0.253	40.81	51.64	-10.83 Average
6	0.253	52.39	61.64	-9.25 QP
7	0.300	46.38	50.24	-3.86 Average
8	0.300	52.39	60.24	-7.85 QP
9	0.356	39.71	48.83	-9.12 Average
10	0.356	47.59	58.83	-11.24 QP
11	0.598	42.13	46.00	-3.87 Average
12	0.598	46.85	56.00	-9.15 QP

EUT :	active loudspeaker	Model Name :	PW300
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 5



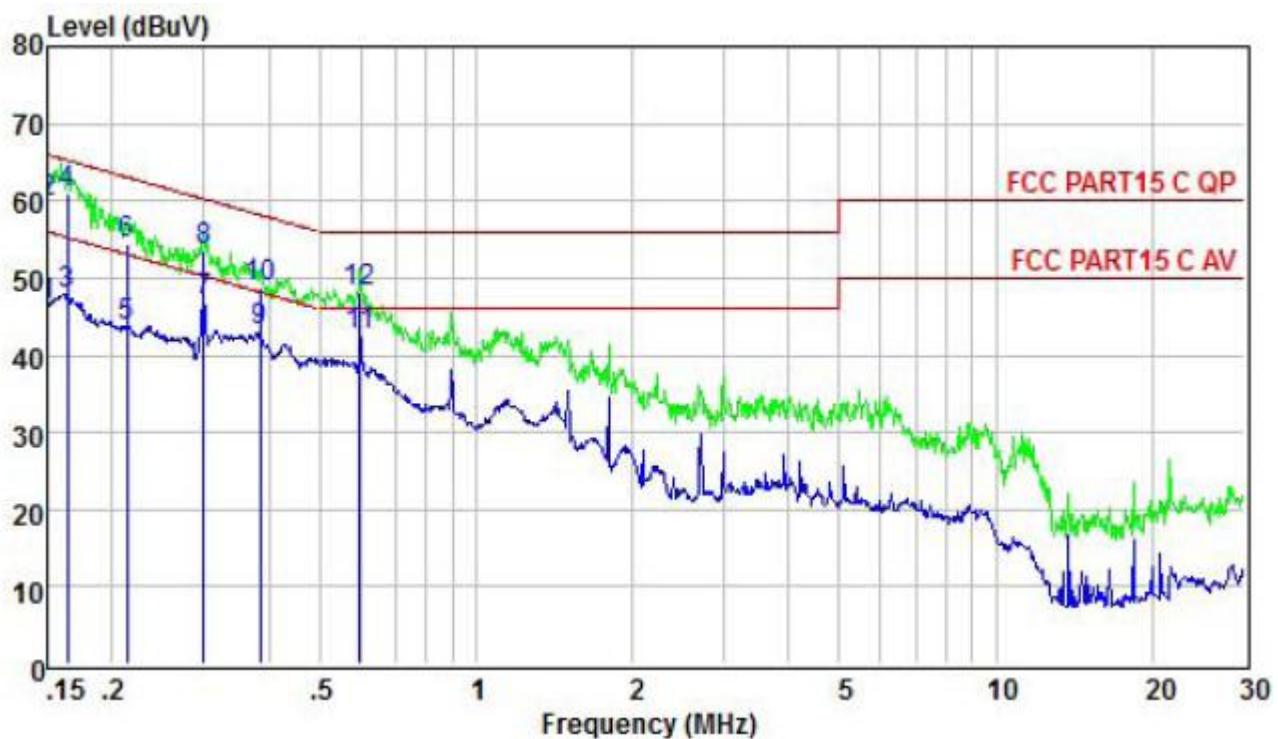
Freq	Level	Limit		Over Limit	Remark
		Line	dBuV		
MHz	dBuV			dB	
1	0.156	46.94	55.65	-8.71	Average
2	0.156	61.29	65.65	-4.36	QP
3	0.202	43.97	53.54	-9.57	Average
4	0.202	53.62	63.54	-9.92	QP
5	0.300	46.78	50.24	-3.46	Average
6	0.300	53.84	60.24	-6.40	QP
7	0.385	39.72	48.17	-8.45	Average
8	0.385	46.87	58.17	-11.30	QP
9	0.447	36.92	46.93	-10.01	Average
10	0.447	44.81	56.93	-12.12	QP
11	0.598	42.22	46.00	-3.78	Average
12	0.598	47.03	56.00	-8.97	QP

EUT :	active loudspeaker	Model Name :	PW300
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 240V/60Hz	Test Mode :	Mode 5



Freq	Level	Limit	Over	Remark
		Line	Limit	
	MHz	dBuV	dBuV	dB
1	0.152	46.72	55.91	-9.19 Average
2	0.152	61.39	65.91	-4.52 QP
3	0.169	48.80	54.99	-6.19 Average
4	0.169	60.54	64.99	-4.45 QP
5	0.299	46.76	50.28	-3.52 Average
6	0.299	53.04	60.28	-7.24 QP
7	0.385	42.72	48.17	-5.45 Average
8	0.385	48.53	58.17	-9.64 QP
9	0.444	40.94	46.98	-6.04 Average
10	0.444	47.19	56.98	-9.79 QP
11	0.598	42.15	46.00	-3.85 Average
12	0.598	47.36	56.00	-8.64 QP

EUT :	active loudspeaker	Model Name :	PW300
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 240V/60Hz	Test Mode :	Mode 5



Freq	Level	Limit	Over	Remark
		Line	Limit	
MHz	dBuV	dBuV	dB	
1	0.150	46.35	56.00	-9.65 Average
2	0.150	59.83	66.00	-6.17 QP
3	0.164	47.92	55.25	-7.33 Average
4	0.164	60.84	65.25	-4.41 QP
5	0.214	43.81	53.05	-9.24 Average
6	0.214	54.38	63.05	-8.67 QP
7	0.300	46.89	50.24	-3.35 Average
8	0.300	53.62	60.24	-6.62 QP
9	0.385	43.07	48.17	-5.10 Average
10	0.385	48.83	58.17	-9.34 QP
11	0.598	42.55	46.00	-3.45 Average
12	0.598	48.15	56.00	-7.85 QP

4.2. Radiated Emission Test

4.2.1. Limit 15.209 limits

Frequency MHz	Distance Meters	Filed Strengths Limit	
		μV/m	dB(μV)/m
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0dB(μV)/m(Peak) 54.0dB(μV)/m(Average)	

4.2.2. Restricted bands of operation

MHz	MHz	MHz	GHz
0.009-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.2.3. Test setup

The EUT was placed on a turn table which was 0.8 m(above 1GHz, the high was 1.5m) above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

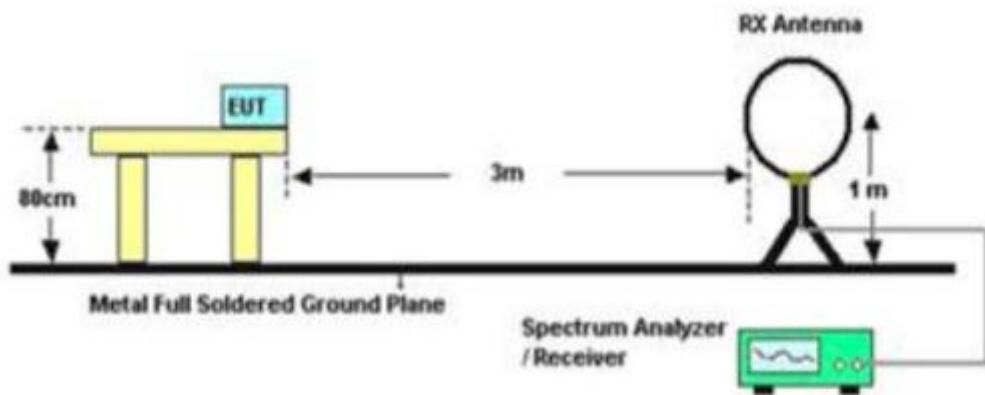
The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz, Both PK and AV measure, PK detector is used.

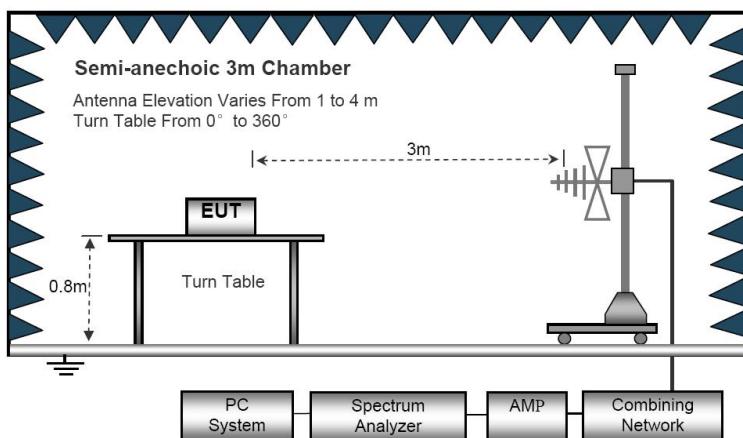
The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

- Notes:
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.
 2. Measurement Uncertainty: ± 3.2 dB at a level of confidence of 95%.
 3. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 4. For emissions below 1GHz, pretest for all mode, The test data of the worst case condition(s) was reported on the following pages.
 5. For Both PK and AV value above 1GHz, PK detector is used.
 6. EUT Pre-scan X/Y/Z orientation, only worst case is presented in the report (Z orientation).

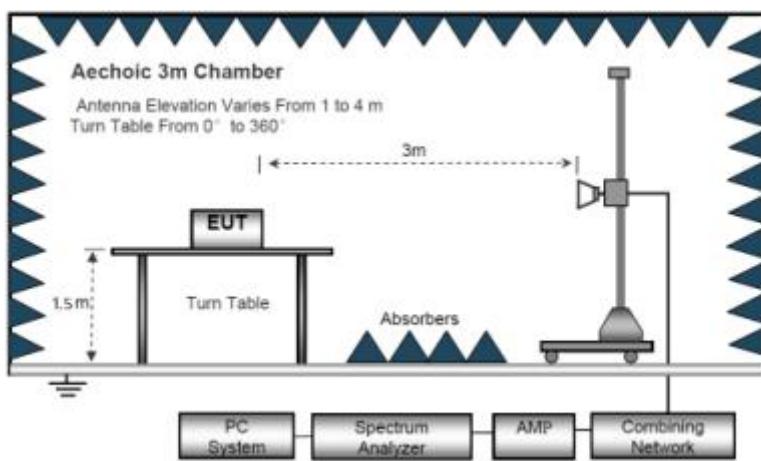
Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz- 1GHz



Above 1GHz



EUT :	active loudspeaker	Model Name :	PW300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010hPa	Test Mode :	TX
Test Voltage :	DC 5.0V form Adapter		

Below 30MHz

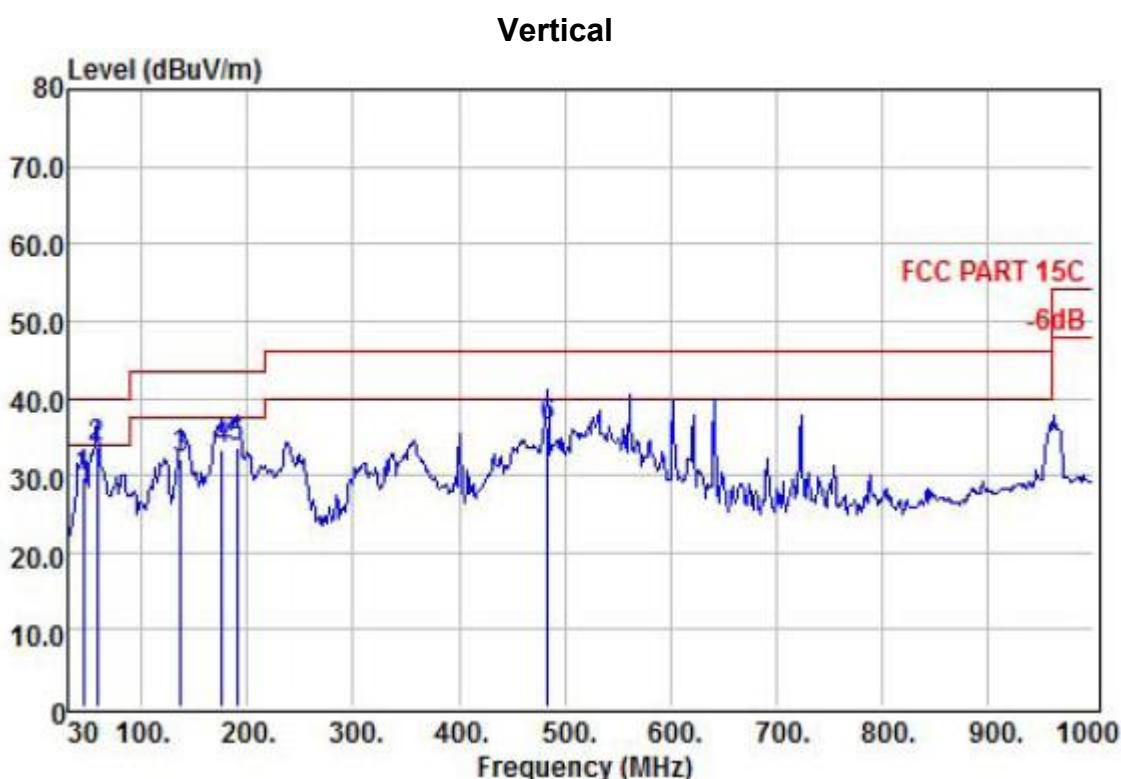
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State
--	--	--	--	P
--	--	--	--	P

Note:

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

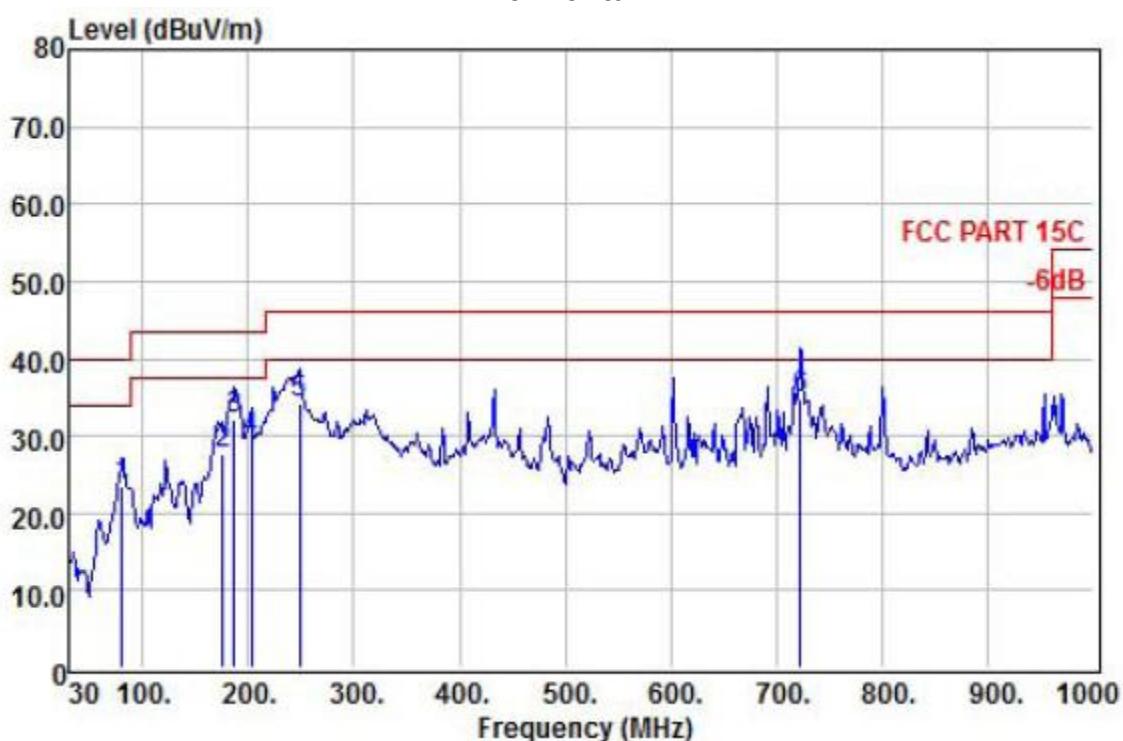
Distance extrapolation factor = $40 \log(\text{specific distance}/\text{test distance})$ (dB);
Limit line = specific limits(dBuV) + distance extrapolation factor.

Below 1GHz			
EUT :	active loudspeaker	Model Name :	PW300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010hPa	Test Mode :	Mode 5
Test Voltage :	AC 120V/50Hz		



Freq	ReadAntenna		Cable Preamp		Limit	Over Line Limit	Over Remar	
	Freq	Level Factor	Cable Loss	Preamp Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	44.55	49.96	11.03	0.13	31.40	29.72	40.00	-10.28 QP
2	57.16	57.09	7.73	0.13	31.36	33.59	40.00	-6.41 QP
3	136.70	54.61	8.37	0.23	31.20	32.01	43.50	-11.49 QP
4	175.50	53.96	10.27	0.24	31.17	33.30	43.50	-10.20 QP
5	190.05	54.38	10.10	0.28	31.12	33.64	43.50	-9.86 QP
6	483.96	47.38	18.44	1.14	30.59	36.37	46.00	-9.63 QP

Horizontal



Freq	ReadAntenna		Cable Preamp		Limit	Over Line	Over Limit	Remark
	Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	80.44	46.60	8.05	0.15	31.34	23.46	40.00	-16.54 QP
2	175.50	48.28	10.27	0.24	31.17	27.62	43.50	-15.88 QP
3	187.14	52.87	10.19	0.27	31.13	32.20	43.50	-11.30 QP
4	202.66	49.07	11.13	0.33	31.09	29.44	43.50	-14.06 QP
5	248.25	51.96	12.85	0.40	30.96	34.25	46.00	-11.75 QP
6	722.58	41.60	22.53	1.26	30.65	34.74	46.00	-11.26 QP

Note: 1. Absolute Level= Reading Level+antenna Factor+cable loss - Preamp factor,

2. Over Limit= Absolute Level – Limit;

3. Mode 5 is the worst mode. Only worst case is presented in the report .

Above 1GHz				
EUT :	active loudspeaker		Model Name :	PW300
Temperature :	20 °C		Relative Humidity :	48%
Pressure :	1010hPa		Test Voltage :	AC 120V/60Hz

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11b TX-2412									
V	4824	29.43	31.99	12.01	27.50	45.93	54	-8.07	Average
V	4824	42.52	31.99	12.01	27.50	59.02	74	-14.98	Peak
V	7236	36.76	25.31	16.61	27.95	50.73	74	-23.27	Peak
H	4824	28.13	31.99	12.01	27.50	44.63	54	-9.37	Average
H	4824	43.75	31.99	12.01	27.50	60.25	74	-13.75	Peak
H	7236	36.89	25.31	16.61	27.95	50.86	74	-23.14	Peak
802.11b TX-2437									
V	4874	30.82	32.11	12.14	27.53	47.54	54	-6.46	Average
V	4874	40.76	32.11	12.14	27.53	57.48	74	-16.52	Peak
V	7311	36.54	24.32	16.62	27.96	49.52	74	-24.48	Peak
H	4874	29.82	32.11	12.14	27.53	46.54	54	-7.46	Average
H	4874	39.38	32.11	12.14	27.53	56.1	74	-17.9	Peak
H	7311	34.52	24.32	16.62	27.96	47.5	74	-26.5	Peak
802.11b TX-2462									
V	4924	29.76	32.23	12.28	27.56	46.71	54	-7.29	Average
V	4924	39.48	32.23	12.28	27.56	56.43	74	-17.57	Peak
V	7386	34.55	24.36	16.62	27.98	47.55	74	-26.45	Peak
H	4924	28.52	32.23	12.28	27.56	45.47	54	-8.53	Average
H	4924	41.49	32.23	12.28	27.56	58.44	74	-15.56	Peak
H	7386	36.52	24.36	16.62	27.98	49.52	74	-24.48	Peak

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11g TX-2412									
V	4824	28.56	31.99	12.01	27.50	45.06	54	-8.94	Average
V	4824	42.48	31.99	12.01	27.50	58.98	74	-15.02	Peak
V	7236	36.42	25.31	16.61	27.95	50.39	74	-23.61	Peak
H	4824	28.48	31.99	12.01	27.50	44.98	54	-9.02	Average
H	4824	43.83	31.99	12.01	27.50	60.33	74	-13.67	Peak
H	7236	36.65	25.31	16.61	27.95	50.62	74	-23.38	Peak
802.11g TX-2437									
V	4874	29.62	32.11	12.14	27.53	46.34	54	-7.66	Average
V	4874	40.83	32.11	12.14	27.53	57.55	74	-16.45	Peak
V	7311	36.32	24.32	16.62	27.96	49.3	74	-24.7	Peak
H	4874	29.53	32.11	12.14	27.53	46.25	54	-7.75	Average
H	4874	39.48	32.11	12.14	27.53	56.2	74	-17.8	Peak
H	7311	34.48	24.32	16.62	27.96	47.46	74	-26.54	Peak
802.11g TX-2462									
V	4924	29.69	32.23	12.28	27.56	46.64	54	-7.36	Average
V	4924	39.48	32.23	12.28	27.56	56.43	74	-17.57	Peak
V	7386	34.62	24.36	16.62	27.98	47.62	74	-26.38	Peak
H	4924	28.93	32.23	12.28	27.56	45.88	54	-8.12	Average
H	4924	41.62	32.23	12.28	27.56	58.57	74	-15.43	Peak
H	7386	36.89	24.36	16.62	27.98	49.89	74	-24.11	Peak
Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11n(HT20) TX-2412									
V	4824	30.42	31.99	12.01	27.50	46.92	54	-7.08	Average
V	4824	42.38	31.99	12.01	27.50	58.88	74	-15.12	Peak
V	7236	36.62	25.31	16.61	27.95	50.59	74	-23.41	Peak
H	4824	28.73	31.99	12.01	27.50	45.23	54	-8.77	Average
H	4824	43.29	31.99	12.01	27.50	59.79	74	-14.21	Peak
H	7236	36.58	25.31	16.61	27.95	50.55	74	-23.45	Peak
802.11n(HT20) TX-2437									
V	4874	29.36	32.11	12.14	27.53	46.08	54	-7.92	Average
V	4874	40.52	32.11	12.14	27.53	57.24	74	-16.76	Peak
V	7311	36.78	24.32	16.62	27.96	49.76	74	-24.24	Peak
H	4874	29.65	32.11	12.14	27.53	46.37	54	-7.63	Average
H	4874	39.54	32.11	12.14	27.53	56.26	74	-17.74	Peak
H	7311	34.36	24.32	16.62	27.96	47.34	74	-26.66	Peak
802.11n(HT20) TX-2462									
V	4924	29.63	32.23	12.28	27.56	46.58	54	-7.42	Average
V	4924	39.72	32.23	12.28	27.56	56.67	74	-17.33	Peak
V	7386	34.84	24.36	16.62	27.98	47.84	74	-26.16	Peak
H	4924	28.75	32.23	12.28	27.56	45.7	54	-8.3	Average
H	4924	41.63	32.23	12.28	27.56	58.58	74	-15.42	Peak
H	7386	36.28	24.36	16.62	27.98	49.28	74	-24.72	Peak

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11n(HT40) TX-2422									
V	4844	30.25	31.75	12.08	27.52	46.56	54	-7.44	Average
V	4844	41.36	31.75	12.08	27.52	57.67	74	-16.33	Peak
V	7266	36.72	25.28	16.65	27.98	50.67	74	-23.33	Peak
H	4844	29.48	31.75	12.08	27.52	45.79	54	-8.21	Average
H	4844	43.64	31.75	12.08	27.52	59.95	74	-14.05	Peak
H	7266	36.53	25.28	16.65	27.98	50.48	74	-23.52	Peak
802.11n(HT40) TX-2437									
V	4874	29.37	32.11	12.14	27.53	46.09	54	-7.91	Average
V	4874	40.48	32.11	12.14	27.53	57.2	74	-16.8	Peak
V	7311	36.65	24.32	16.62	27.96	49.63	74	-24.37	Peak
H	4874	29.57	32.11	12.14	27.53	46.29	54	-7.71	Average
H	4874	39.35	32.11	12.14	27.53	56.07	74	-17.93	Peak
H	7311	34.42	24.32	16.62	27.96	47.4	74	-26.6	Peak
802.11n(HT40) TX-2452									
V	4904	29.47	32.31	12.24	27.51	46.51	54	-7.49	Average
V	4904	39.58	32.31	12.24	27.51	56.62	74	-17.38	Peak
V	7356	34.36	24.42	16.58	27.95	47.41	74	-26.59	Peak
H	4924	28.51	32.31	12.24	27.51	45.55	54	-8.45	Average
H	4924	41.39	32.31	12.24	27.51	58.43	74	-15.57	Peak
H	7386	36.28	24.42	16.58	27.95	49.33	74	-24.67	Peak

Note: 1. When PK value is lower than the Average value limit, average didn't record.

2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has not to be reported.

Spurious Emission in Restricted Band (1-25G) :

All the modulation modes have been tested and all other emissions more than 20dB below the limit, the worst result was report as below:

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11b-2412MHz									
V	3264	30.13	30.26	9.96	26.63	43.72	74	-30.28	Pk
H	3264	33.18	30.26	9.96	26.63	46.77	74	-27.23	PK
V	3336	32.34	30.33	9.96	26.66	45.97	74	-28.03	Pk
H	3336	32.59	30.33	9.96	26.66	46.22	74	-27.78	PK
V	4100	32.72	31.64	10.61	27.06	47.91	74	-26.09	Pk
H	4100	32.68	31.64	10.61	27.06	47.87	74	-26.13	PK
V	11764	31.54	26.64	17.32	28.98	46.52	74	-27.48	Pk
H	11764	33.69	26.64	17.32	28.98	48.67	74	-25.33	PK
V	17732	32.17	26.27	22.01	30.39	50.06	74	-23.94	Pk
H	17732	32.28	26.27	22.01	30.39	50.17	74	-23.83	PK
802.11g-2412MHz									
V	3264	33.48	30.26	9.96	26.63	47.07	74	-26.93	Pk
H	3264	33.39	30.26	9.96	26.63	46.98	74	-27.02	PK
V	3336	33.28	30.33	9.96	26.66	46.91	74	-27.09	Pk
H	3336	32.48	30.33	9.96	26.66	46.11	74	-27.89	PK
V	4100	33.27	31.64	10.61	27.06	48.46	74	-25.54	Pk
H	4100	33.65	31.64	10.61	27.06	48.84	74	-25.16	PK
V	11764	32.54	26.64	17.32	28.98	47.52	74	-26.48	Pk
H	11764	32.68	26.64	17.32	28.98	47.66	74	-26.34	PK
V	17732	31.44	26.27	22.01	30.39	49.33	74	-24.67	Pk
H	17732	31.36	26.27	22.01	30.39	49.25	74	-24.75	PK
802.11n(20)-2412MHz									
V	3264	31.58	30.26	9.96	26.63	45.17	74	-28.83	Pk
H	3264	31.32	30.26	9.96	26.63	44.91	74	-29.09	PK
V	3336	32.78	30.33	9.96	26.66	46.41	74	-27.59	Pk
H	3336	31.35	30.33	9.96	26.66	44.98	74	-29.02	PK
V	4100	33.68	31.64	10.61	27.06	48.87	74	-25.13	Pk
H	4100	33.72	31.64	10.61	27.06	48.91	74	-25.09	PK
V	11764	32.79	26.64	17.32	28.98	47.77	74	-26.23	Pk
H	11764	31.49	26.64	17.32	28.98	46.47	74	-27.53	PK
V	17732	33.38	26.27	22.01	30.39	51.27	74	-22.73	Pk
H	17732	33.17	26.27	22.01	30.39	51.06	74	-22.94	PK
802.11n(40)-2422MHz									
V	3264	31.54	30.26	9.96	26.63	45.13	74	-28.87	Pk
H	3264	30.58	30.26	9.96	26.63	44.17	74	-29.83	PK
V	3336	31.38	30.33	9.96	26.66	45.01	74	-28.99	Pk
H	3336	31.68	30.33	9.96	26.66	45.31	74	-28.69	PK
V	4100	33.63	31.64	10.61	27.06	48.82	74	-25.18	Pk
H	4100	31.37	31.64	10.61	27.06	46.56	74	-27.44	PK
V	11764	32.54	26.64	17.32	28.98	47.52	74	-26.48	Pk
H	11764	32.31	26.64	17.32	28.98	47.29	74	-26.71	PK
V	17732	30.18	26.27	22.01	30.39	48.07	74	-25.93	Pk
H	17732	30.38	26.27	22.01	30.39	48.27	74	-25.73	PK

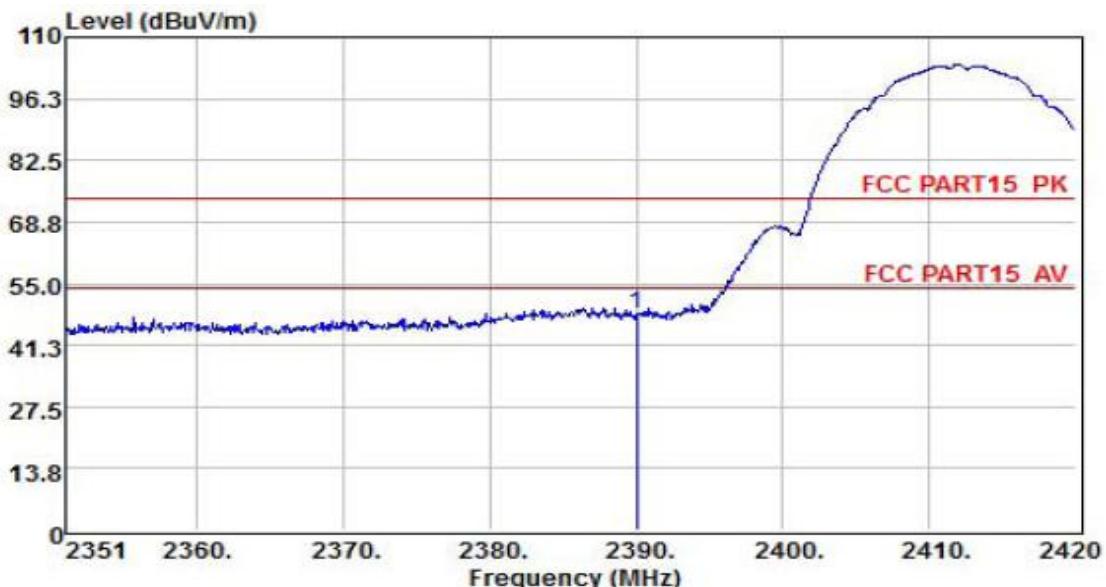
Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11b-2437MHz									
V	3264	32.34	30.26	9.96	26.63	45.93	74	-28.07	Pk
H	3264	31.75	30.26	9.96	26.63	45.34	74	-28.66	PK
V	3336	32.36	30.33	9.96	26.66	45.99	74	-28.01	Pk
H	3336	31.52	30.33	9.96	26.66	45.15	74	-28.85	PK
V	4100	31.53	31.64	10.61	27.06	46.72	74	-27.28	Pk
H	4100	31.74	31.64	10.61	27.06	46.93	74	-27.07	PK
V	11764	32.68	26.64	17.32	28.98	47.66	74	-26.34	Pk
H	11764	32.45	26.64	17.32	28.98	47.43	74	-26.57	PK
V	17732	31.71	26.27	22.01	30.39	49.6	74	-24.4	Pk
H	17732	31.35	26.27	22.01	30.39	49.24	74	-24.76	PK
802.11g-2437MHz									
V	3264	32.64	30.26	9.96	26.63	46.23	74	-27.77	Pk
H	3264	32.58	30.26	9.96	26.63	46.17	74	-27.83	PK
V	3336	32.49	30.33	9.96	26.66	46.12	74	-27.88	Pk
H	3336	32.72	30.33	9.96	26.66	46.35	74	-27.65	PK
V	4100	30.68	31.64	10.61	27.06	45.87	74	-28.13	Pk
H	4100	30.53	31.64	10.61	27.06	45.72	74	-28.28	PK
V	11764	30.32	26.64	17.32	28.98	45.3	74	-28.7	Pk
H	11764	30.69	26.64	17.32	28.98	45.67	74	-28.33	PK
V	17732	31.78	26.27	22.01	30.39	49.67	74	-24.33	Pk
H	17732	31.46	26.27	22.01	30.39	49.35	74	-24.65	PK
802.11n(20)-2437MHz									
V	3264	31.47	30.26	9.96	26.63	45.06	74	-28.94	Pk
H	3264	31.35	30.26	9.96	26.63	44.94	74	-29.06	PK
V	3336	31.65	30.33	9.96	26.66	45.28	74	-28.72	Pk
H	3336	31.48	30.33	9.96	26.66	45.11	74	-28.89	PK
V	4100	31.75	31.64	10.61	27.06	46.94	74	-27.06	Pk
H	4100	30.63	31.64	10.61	27.06	45.82	74	-28.18	PK
V	11764	30.49	26.64	17.32	28.98	45.47	74	-28.53	Pk
H	11764	31.13	26.64	17.32	28.98	46.11	74	-27.89	PK
V	17732	31.27	26.27	22.01	30.39	49.16	74	-24.84	Pk
H	17732	31.53	26.27	22.01	30.39	49.42	74	-24.58	PK
802.11n(40)-2437MHz									
V	3264	32.56	30.26	9.96	26.63	46.15	74	-27.85	Pk
H	3264	31.33	30.26	9.96	26.63	44.92	74	-29.08	PK
V	3336	31.62	30.33	9.96	26.66	45.25	74	-28.75	Pk
H	3336	31.42	30.33	9.96	26.66	45.05	74	-28.95	PK
V	4100	31.16	31.64	10.61	27.06	46.35	74	-27.65	Pk
H	4100	31.54	31.64	10.61	27.06	46.73	74	-27.27	PK
V	11764	31.42	26.64	17.32	28.98	46.4	74	-27.6	Pk
H	11764	31.45	26.64	17.32	28.98	46.43	74	-27.57	PK
V	17732	30.52	26.27	22.01	30.39	48.41	74	-25.59	Pk
H	17732	30.39	26.27	22.01	30.39	48.28	74	-25.72	PK

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11b-2462MHz									
V	3264	29.35	30.26	9.96	26.63	42.94	74	-31.06	Pk
H	3264	29.73	30.26	9.96	26.63	43.32	74	-30.68	PK
V	3336	30.24	30.33	9.96	26.66	43.87	74	-30.13	Pk
H	3336	30.12	30.33	9.96	26.66	43.75	74	-30.25	PK
V	4100	31.47	31.64	10.61	27.06	46.66	74	-27.34	Pk
H	4100	31.68	31.64	10.61	27.06	46.87	74	-27.13	PK
V	11764	31.24	26.64	17.32	28.98	46.22	74	-27.78	Pk
H	11764	30.82	26.64	17.32	28.98	45.8	74	-28.2	PK
V	17732	30.56	26.27	22.01	30.39	48.45	74	-25.55	Pk
H	17732	30.38	26.27	22.01	30.39	48.27	74	-25.73	PK
802.11g-2462MHz									
V	3264	32.56	30.26	9.96	26.63	46.15	74	-27.85	Pk
H	3264	32.63	30.26	9.96	26.63	46.22	74	-27.78	PK
V	3336	32.78	30.33	9.96	26.66	46.41	74	-27.59	Pk
H	3336	31.62	30.33	9.96	26.66	45.25	74	-28.75	PK
V	4100	30.68	31.64	10.61	27.06	45.87	74	-28.13	Pk
H	4100	30.92	31.64	10.61	27.06	46.11	74	-27.89	PK
V	11764	31.73	26.64	17.32	28.98	46.71	74	-27.29	Pk
H	11764	31.36	26.64	17.32	28.98	46.34	74	-27.66	PK
V	17732	32.62	26.27	22.01	30.39	50.51	74	-23.49	Pk
H	17732	30.35	26.27	22.01	30.39	48.24	74	-25.76	PK
802.11n(20)-2462MHz									
V	3264	32.62	30.26	9.96	26.63	46.21	74	-27.79	Pk
H	3264	31.67	30.26	9.96	26.63	45.26	74	-28.74	PK
V	3336	31.74	30.33	9.96	26.66	45.37	74	-28.63	Pk
H	3336	31.73	30.33	9.96	26.66	45.36	74	-28.64	PK
V	4100	31.45	31.64	10.61	27.06	46.64	74	-27.36	Pk
H	4100	31.48	31.64	10.61	27.06	46.67	74	-27.33	PK
V	11764	31.76	26.64	17.32	28.98	46.74	74	-27.26	Pk
H	11764	31.47	26.64	17.32	28.98	46.45	74	-27.55	PK
V	17732	31.93	26.27	22.01	30.39	49.82	74	-24.18	Pk
H	17732	31.52	26.27	22.01	30.39	49.41	74	-24.59	PK
802.11n(40)-2452MHz									
V	3264	32.47	30.26	9.96	26.63	46.06	74	-27.94	Pk
H	3264	31.76	30.26	9.96	26.63	45.35	74	-28.65	PK
V	3336	31.53	30.33	9.96	26.66	45.16	74	-28.84	Pk
H	3336	34.94	30.33	9.96	26.66	48.57	74	-25.43	PK
V	4100	33.28	31.64	10.61	27.06	48.47	74	-25.53	Pk
H	4100	32.35	31.64	10.61	27.06	47.54	74	-26.46	PK
V	11764	31.42	26.64	17.32	28.98	46.4	74	-27.6	Pk
H	11764	32.58	26.64	17.32	28.98	47.56	74	-26.44	PK
V	17732	31.63	26.27	22.01	30.39	49.52	74	-24.48	Pk
H	17732	31.35	26.27	22.01	30.39	49.24	74	-24.76	PK

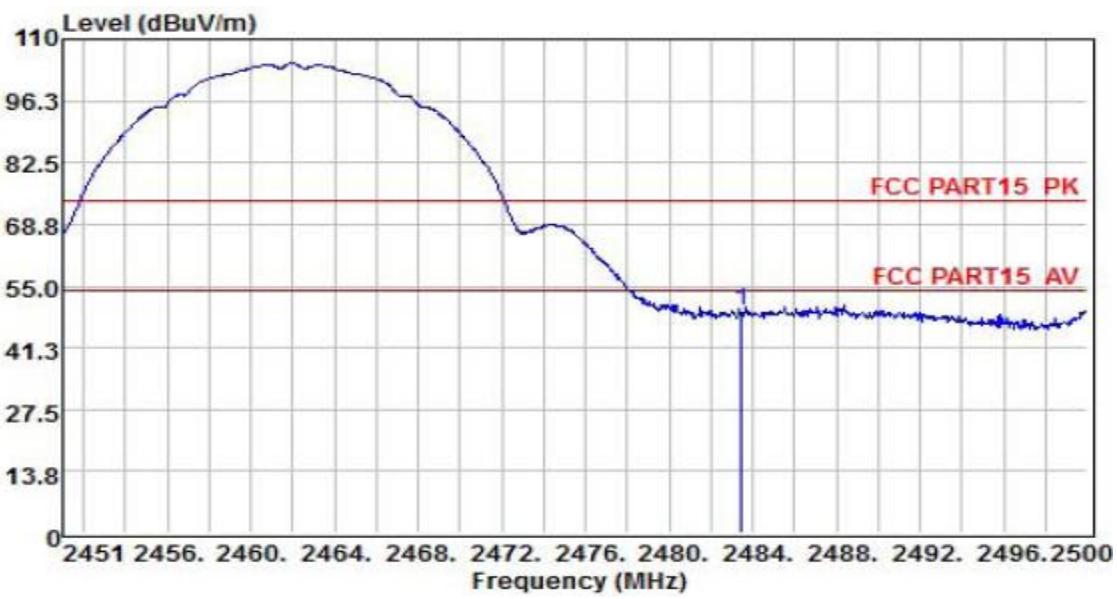
If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

Spurious Emission in Band Edge:

802.11b - Horizontal

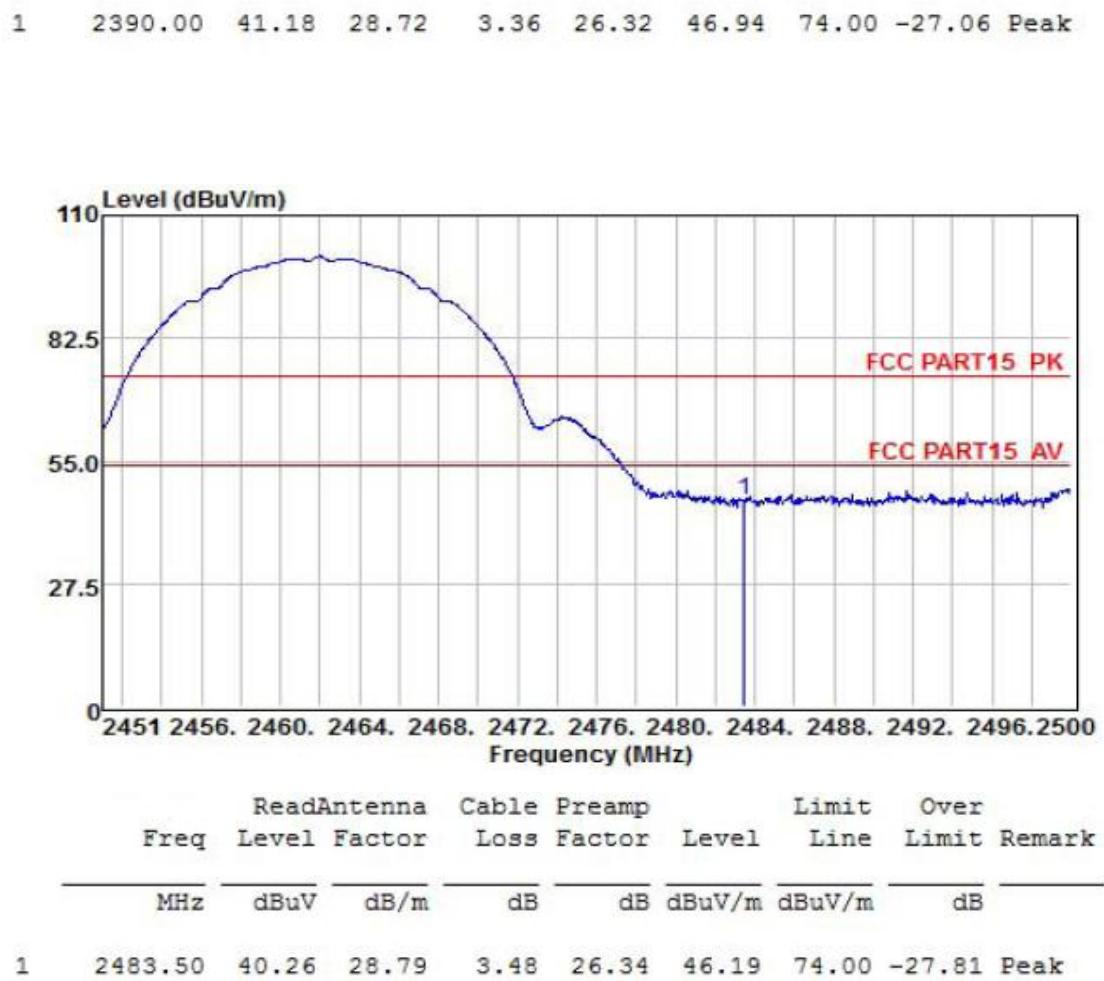
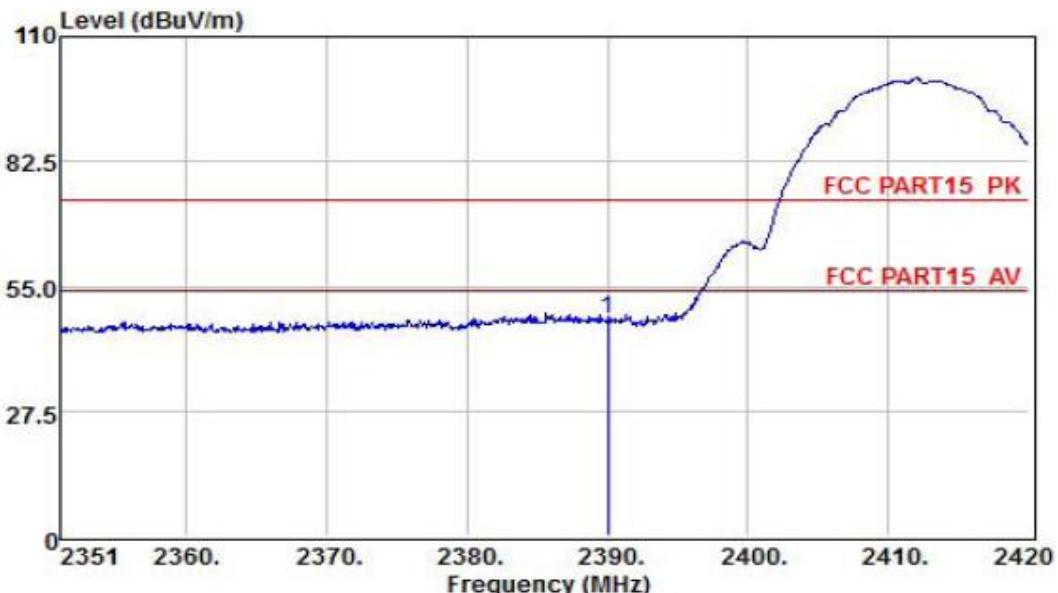


	ReadAntenna Freq	Level Factor MHz	Cable Loss Factor	Preamp Level dB	Limit Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
1	2390.00	42.52	28.72	3.36	26.32	48.28	74.00	-25.72 Peak

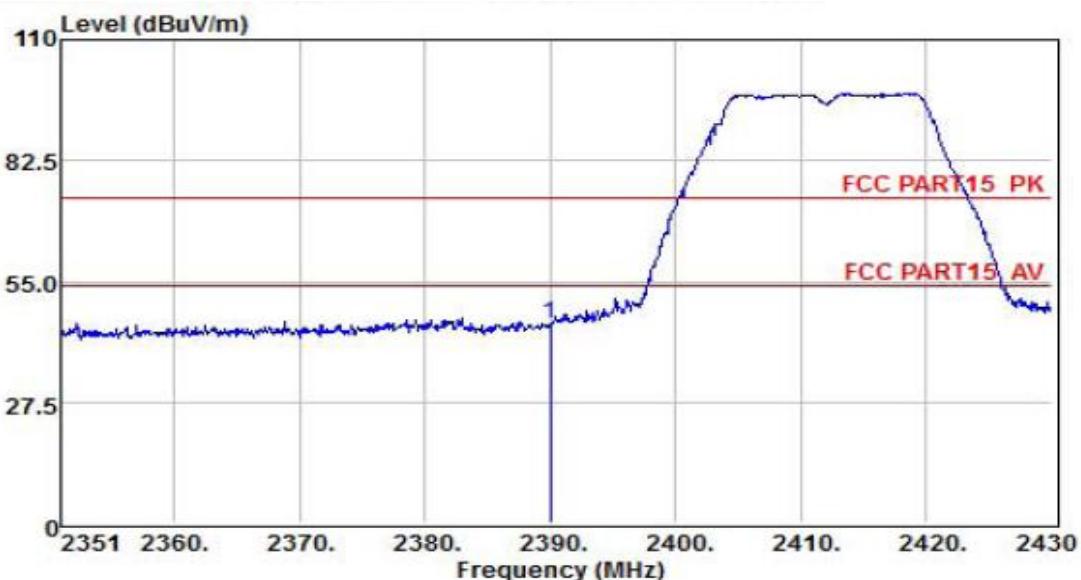


	ReadAntenna Freq	Level Factor MHz	Cable Loss Factor	Preamp Level dB	Limit Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
1	2483.50	43.58	28.79	3.48	26.34	49.51	74.00	-24.49 Peak

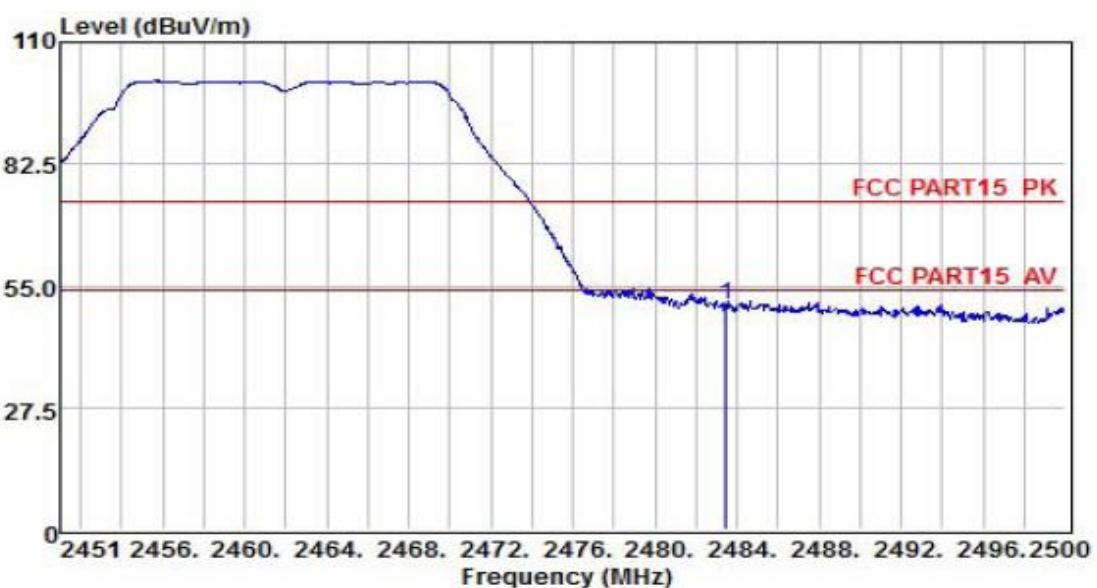
802.11b - Vertical



802.11g - Horizontal

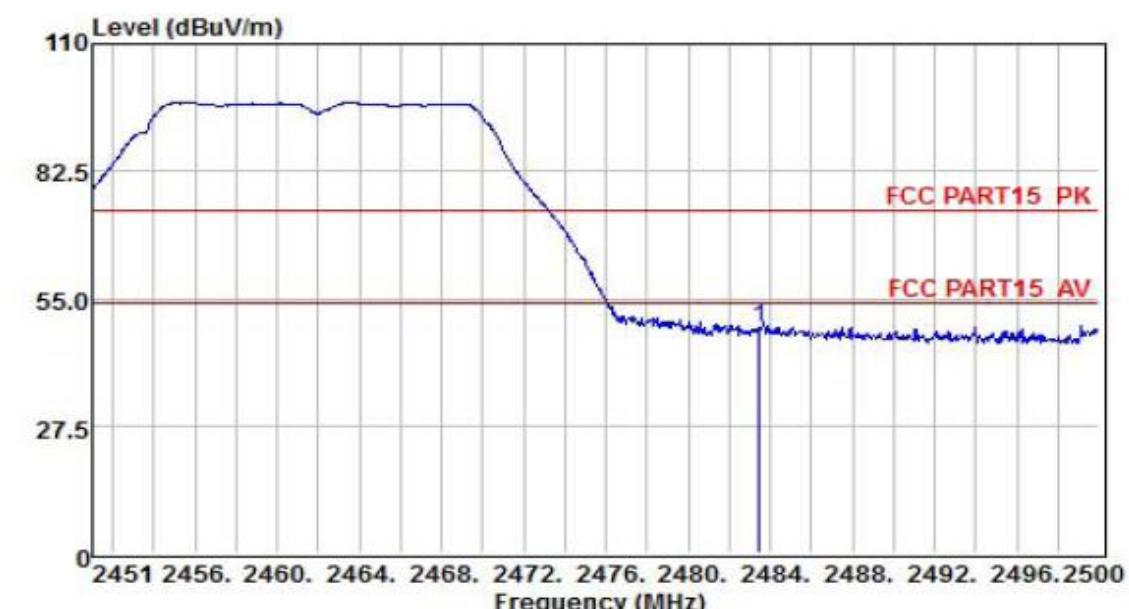
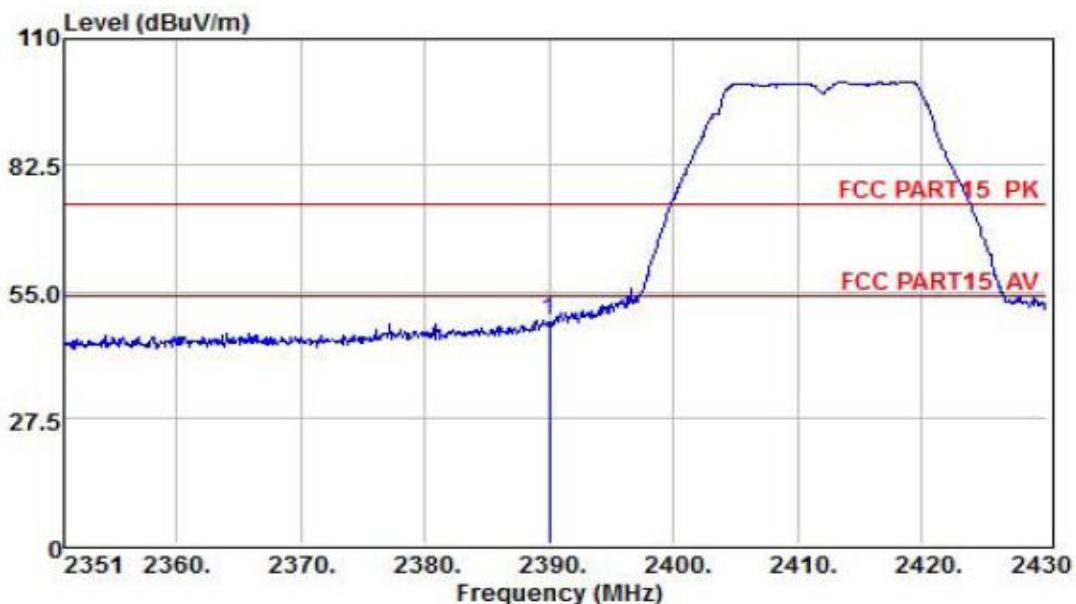


	ReadAntenna Freq	Level Factor	Cable Loss Factor	Preamp Level	Limit dB	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.50	44.88	28.79	3.48	26.34	50.81	74.00	-23.19	Peak



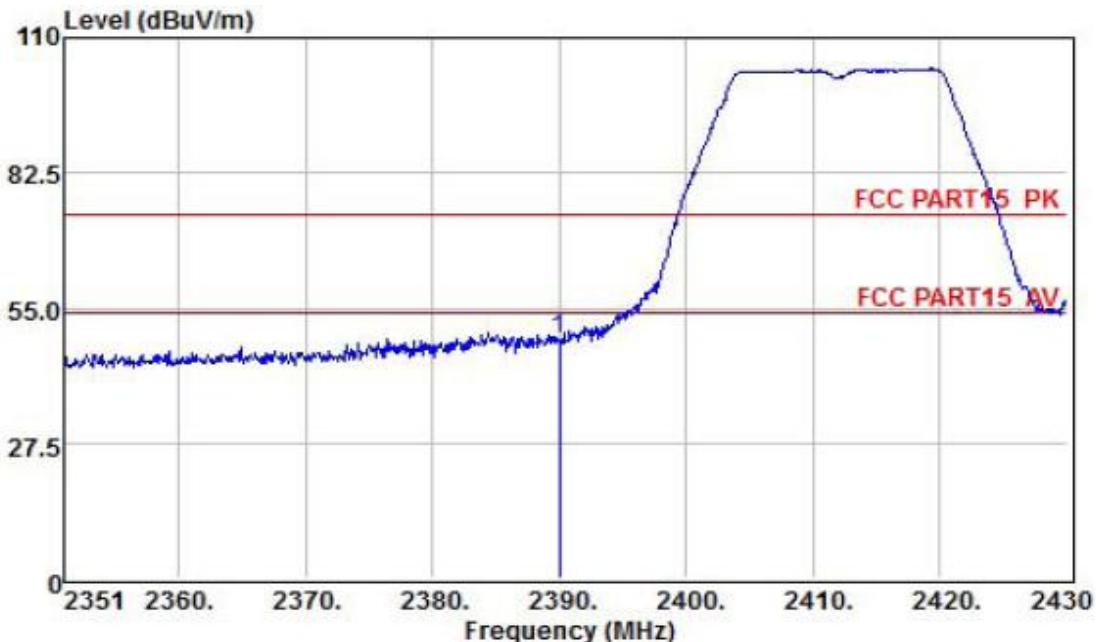
	ReadAntenna Freq	Level Factor	Cable Loss Factor	Preamp Level	Limit dB	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.00	39.53	28.72	3.36	26.32	45.29	74.00	-28.71	Peak

802.11g - Vertical

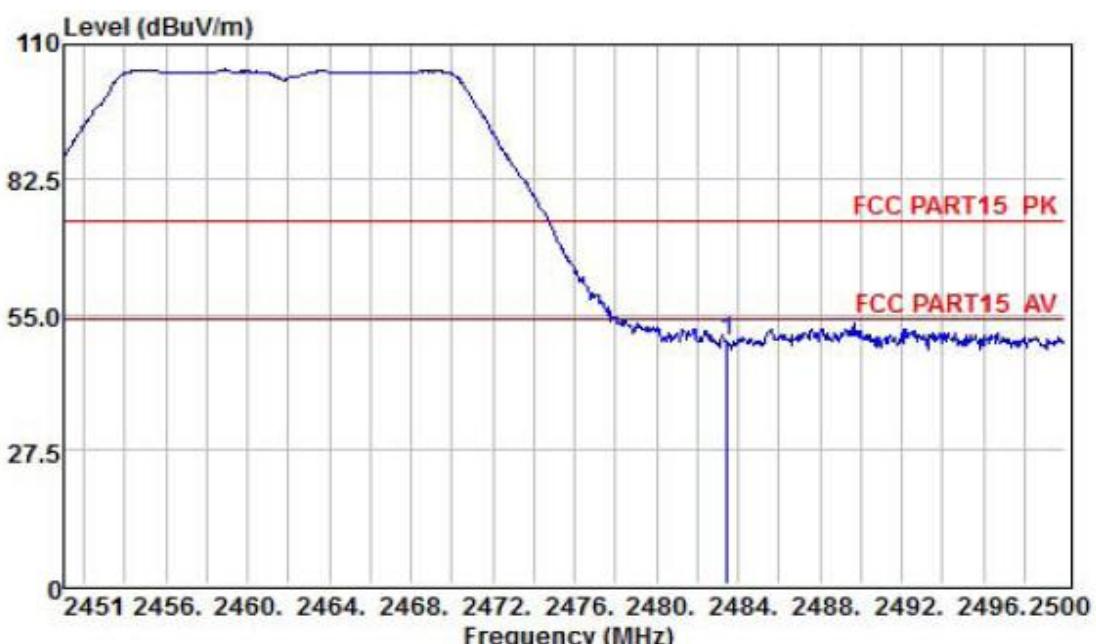


ReadAntenna Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Line Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2390.00	41.78	28.72	3.36	26.32	47.54	74.00	-26.46	Peak

802.11n(20) - Horizontal

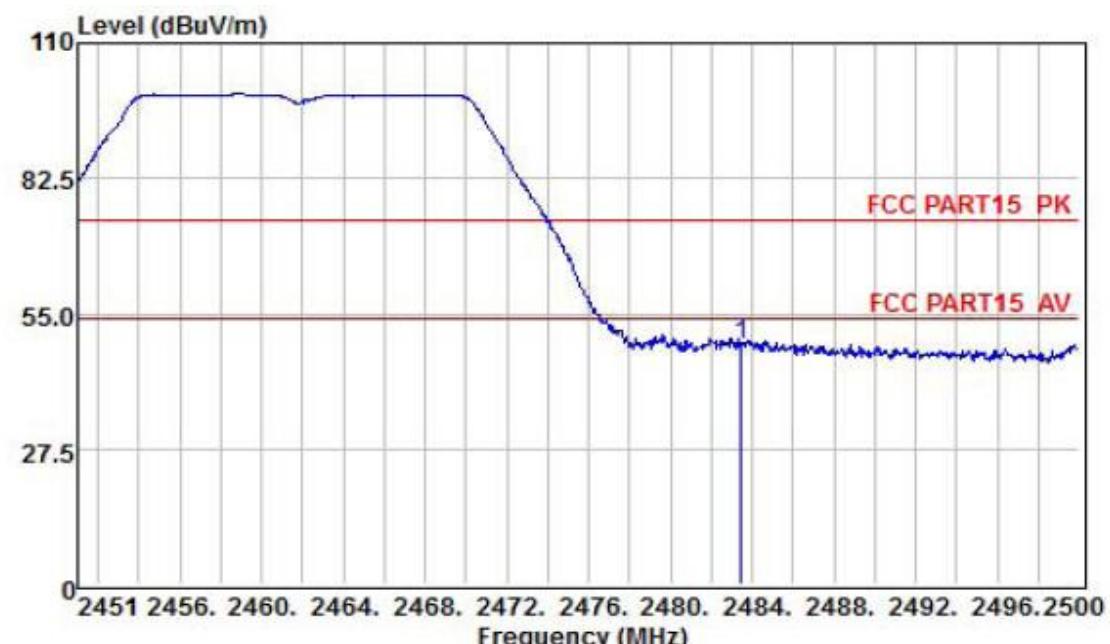
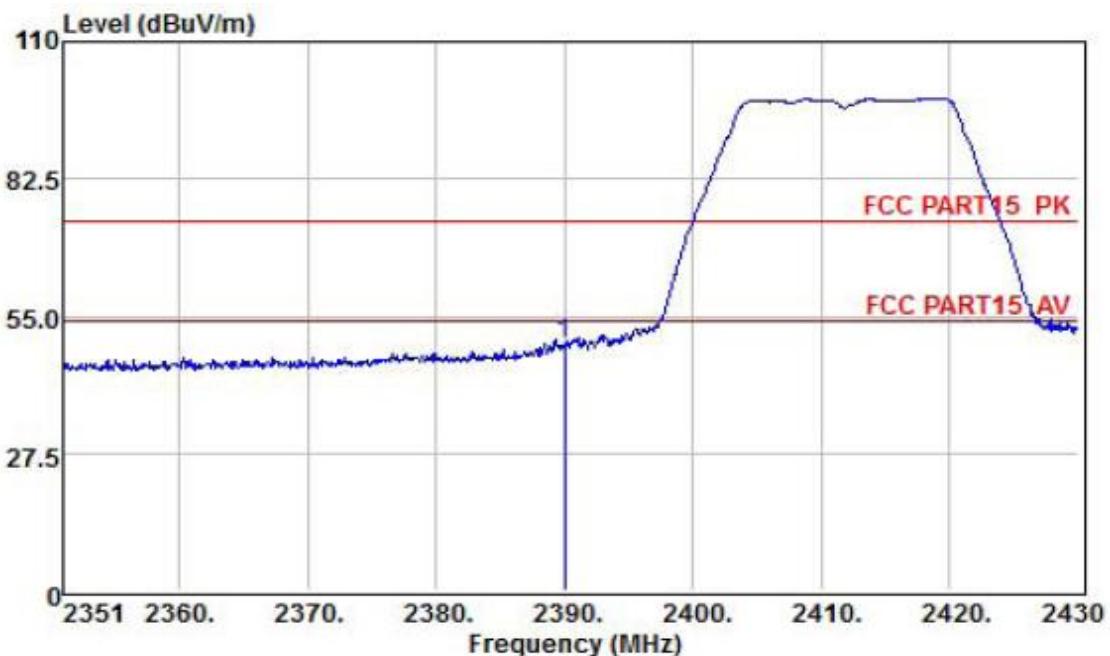


	ReadAntenna Freq	Level MHz	Factor dBuV	Cable Loss dB	Preamp Factor dB	Limit Level dBuV/m	Line Level dBuV/m	Over Line Limit dB	Over Limit Remark
1	2390.00	42.93	28.72	3.36	26.32	48.69	74.00	-25.31	Peak

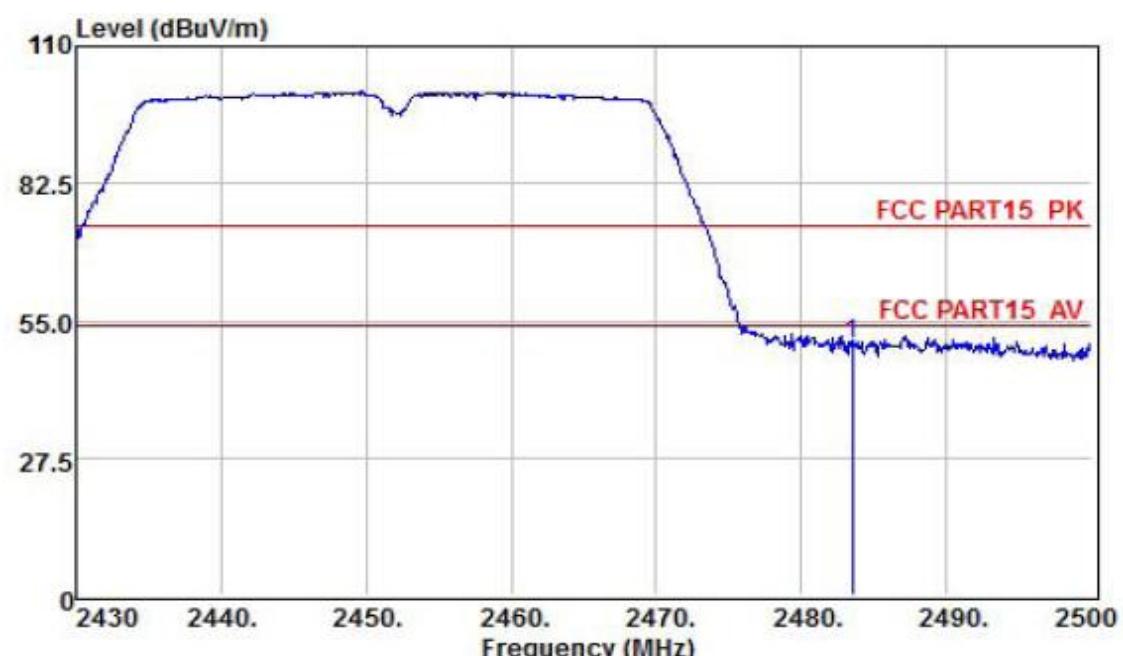
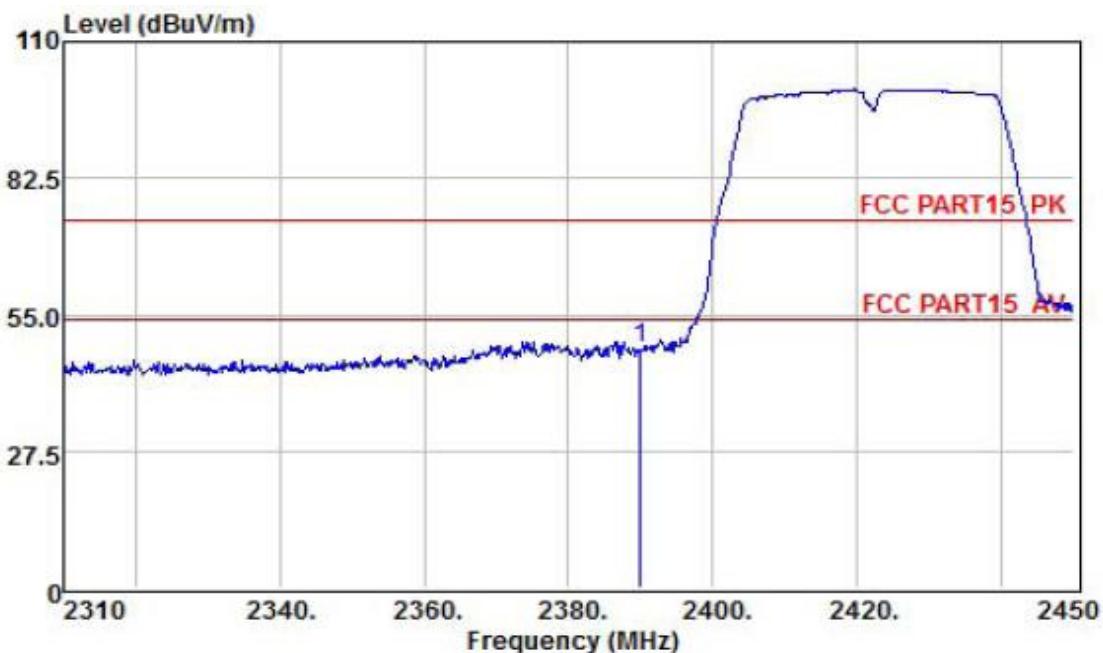


	ReadAntenna Freq	Level MHz	Factor dBuV	Cable Loss dB	Preamp Factor dB	Limit Level dBuV/m	Line Level dBuV/m	Over Line Limit dB	Over Limit Remark
1	2483.50	43.27	28.79	3.48	26.34	49.20	74.00	-24.80	Peak

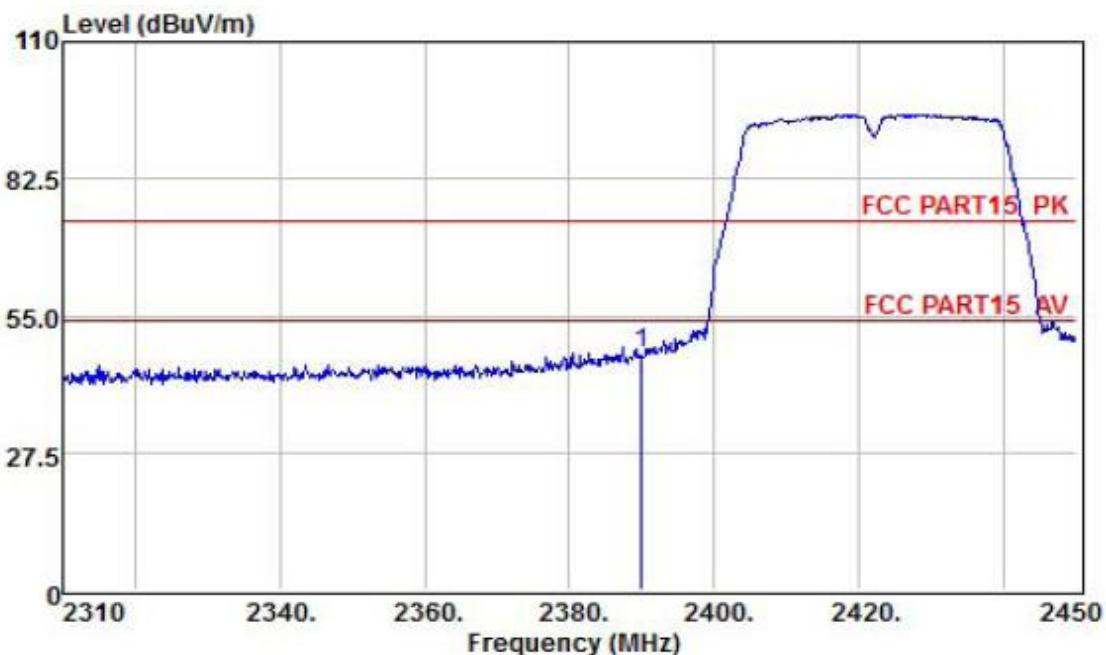
802.11n(20) - Vertical



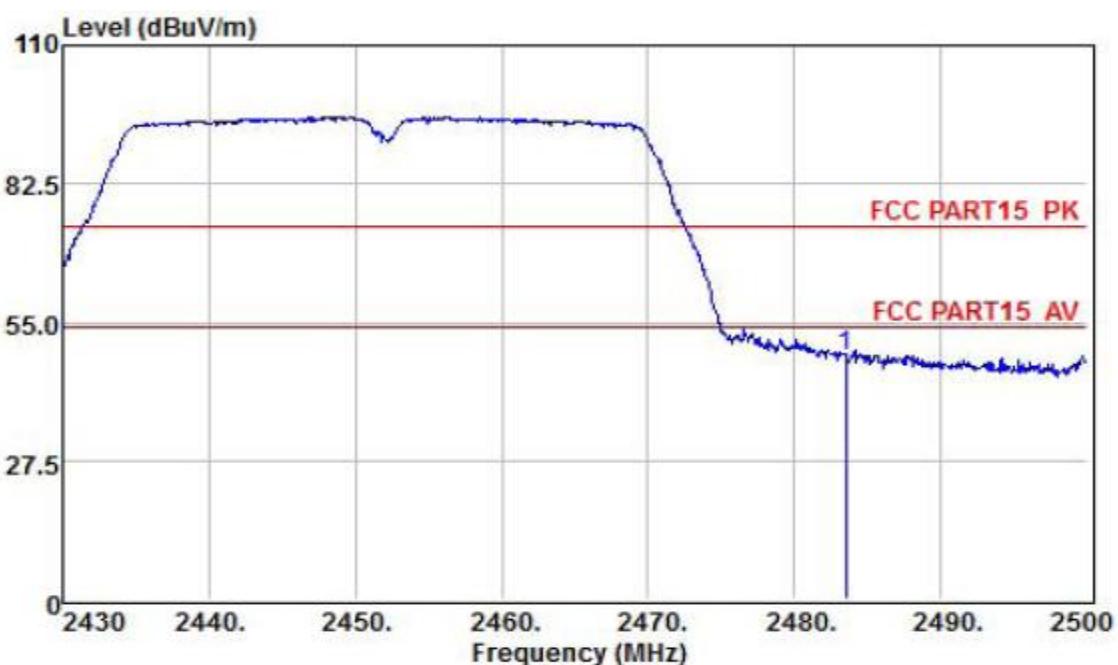
802.11n(40) - Horizontal



802.11n(40) - Vertical



	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark	
	MHz	dB _{UV}	dB/m	dB	dB	dB _{UV} /m	dB _{UV} /m	dB
1	2390.00	41.53	28.72	3.36	26.32	47.29	74.00	-26.71 Peak



	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark	
	MHz	dB _{UV}	dB/m	dB	dB	dB _{UV} /m	dB _{UV} /m	dB
1	2483.50	42.14	28.79	3.48	26.34	48.07	74.00	-25.93 Peak

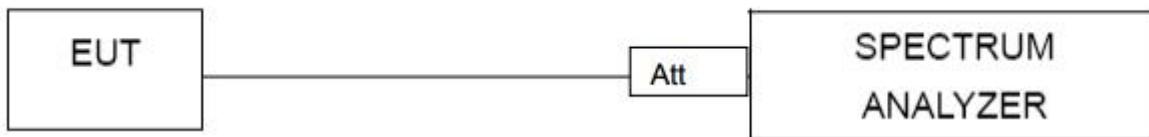
5. BAND EDGE COMPLIANCE TEST

5.1. Limits

According to 15.247(d) & RSS-247 § 5.5

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)).

5.2. Test setup



5.3. TEST Procedure

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

Conduction band-edge

A Antenna			
Frequency Band MHz	Delta Peak to band emission (dBc)	> Limit (dBc)	Result
802.11b mode			
2400	36.73	20	Pass
2483.5	61.34	20	Pass
802.11g mode			
2400	31.12	20	Pass
2483.5	44.65	20	Pass
802.11n-HT20 mode			
2400	31.81	20	Pass
2483.5	41.53	20	Pass
802.11n-HT40 mode			
2400	30.23	20	Pass
2483.5	36.41	20	Pass

B Antenna			
Frequency Band MHz	Delta Peak to band emission (dBc)	> Limit (dBc)	Result
802.11b mode			
2400	36.55	20	Pass
2483.5	60.91	20	Pass
802.11g mode			
2400	30.74	20	Pass
2483.5	44.51	20	Pass
802.11n-HT20 mode			
2400	31.55	20	Pass
2483.5	41.58	20	Pass
802.11n-HT40 mode			
2400	30.03	20	Pass
2483.5	37.39	20	Pass

A Antenna

802.11b: Band Edge, Right Side



802.11b: Band Edge, Left Side



802.11g: Band Edge, Right Side



802.11g: Band Edge, Left Side



802.11n-HT20: Band Edge, Right Side



802.11n-HT20: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side



802.11n-HT40: Band Edge, Left Side



B Antenna

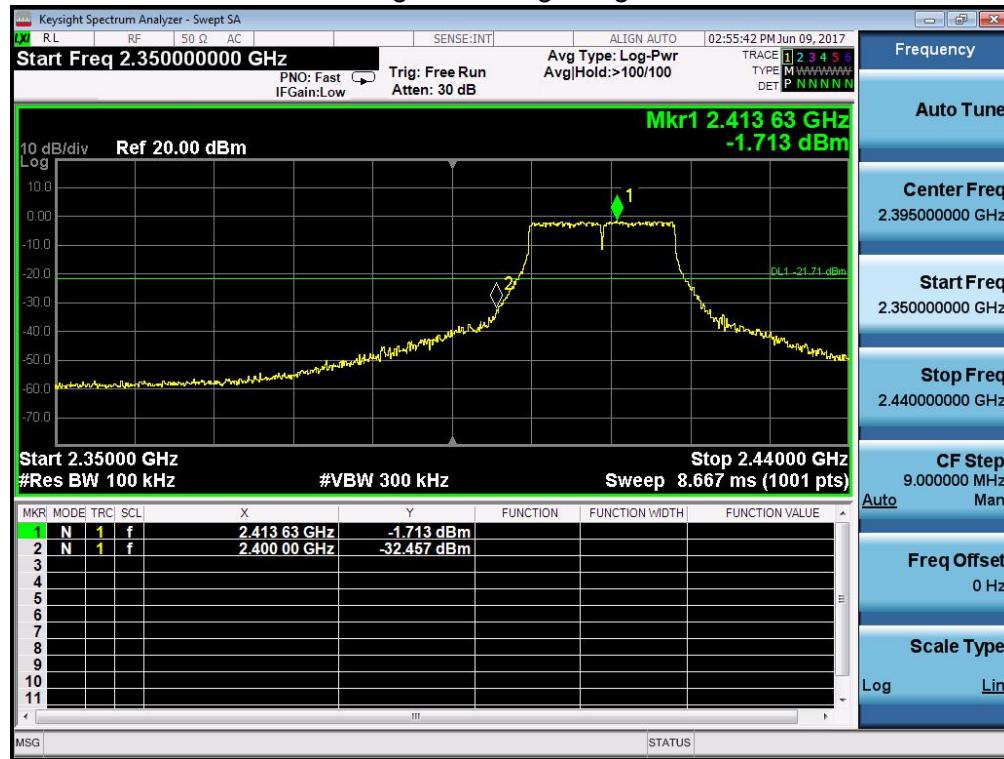
802.11b: Band Edge, Right Side



802.11b: Band Edge, Left Side



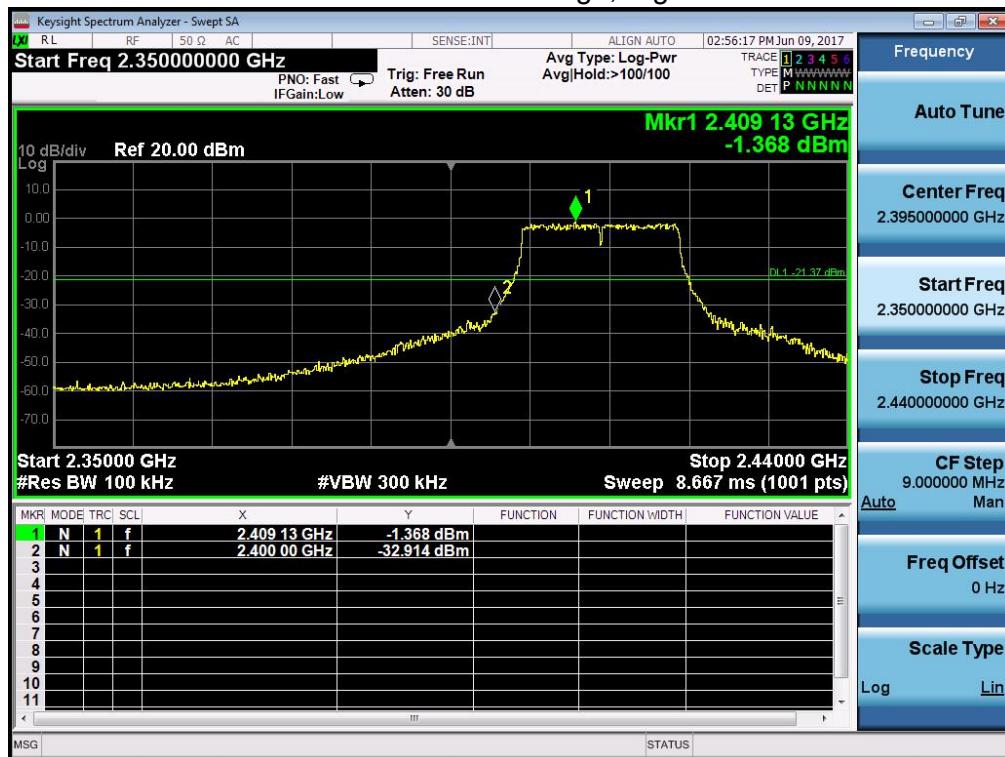
802.11g: Band Edge, Right Side



802.11g: Band Edge, Left Side



802.11n-HT20: Band Edge, Right Side



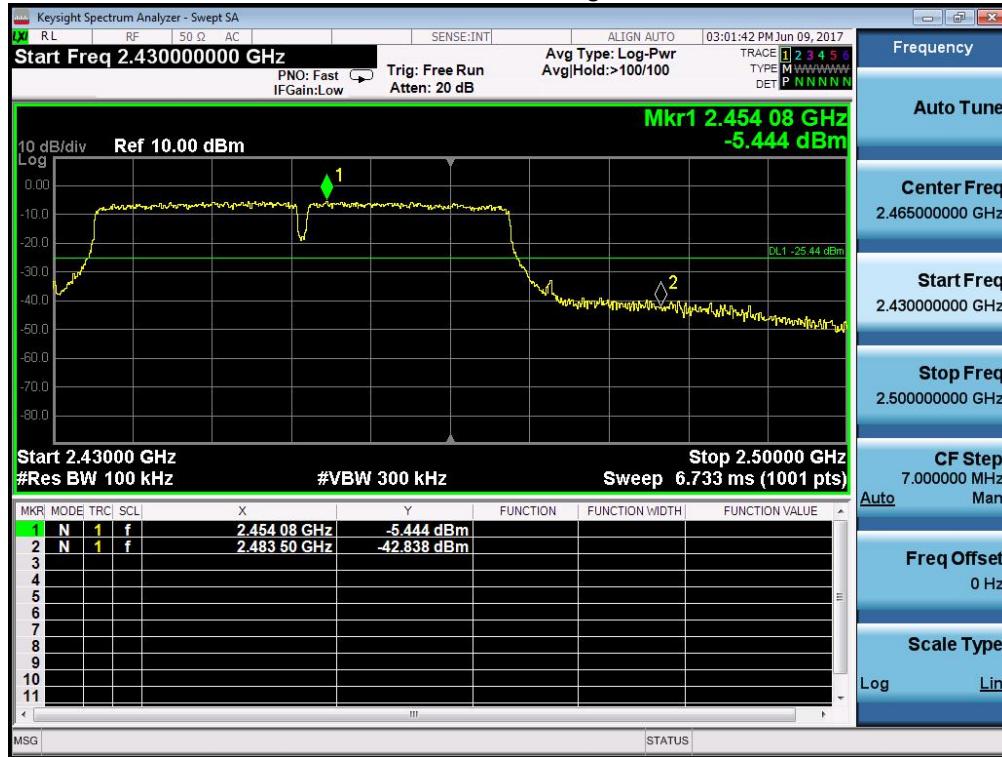
802.11n-HT20: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side



802.11n-HT40: Band Edge, Left Side



6. BANDWIDTH TEST

6.1. Limits

According to 15.247(a)(2) & RSS-247§5.2(1)/ RSS-Gen§6.6

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

6.2. TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test data:

A Antenna

	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	2412	10.09	>0.5	Pass
	2437	10.09	>0.5	Pass
	2462	10.10	>0.5	Pass
802.11g	2412	16.63	>0.5	Pass
	2437	16.63	>0.5	Pass
	2462	16.63	>0.5	Pass
802.11n (HT20)	2412	17.85	>0.5	Pass
	2437	17.85	>0.5	Pass
	2462	17.86	>0.5	Pass
802.11n (HT40)	2422	36.47	>0.5	Pass
	2437	36.47	>0.5	Pass
	2452	36.47	>0.5	Pass

B Antenna

	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	2412	10.10	>0.5	Pass
	2437	10.10	>0.5	Pass
	2462	10.10	>0.5	Pass
802.11g	2412	16.62	>0.5	Pass
	2437	16.63	>0.5	Pass
	2462	16.63	>0.5	Pass
802.11n (HT20)	2412	17.86	>0.5	Pass
	2437	17.85	>0.5	Pass
	2462	17.84	>0.5	Pass
802.11n (HT40)	2422	36.48	>0.5	Pass
	2437	36.47	>0.5	Pass
	2452	36.47	>0.5	Pass