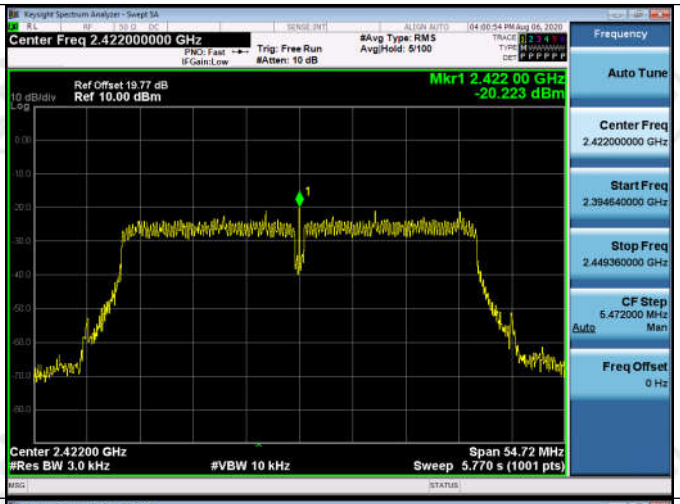
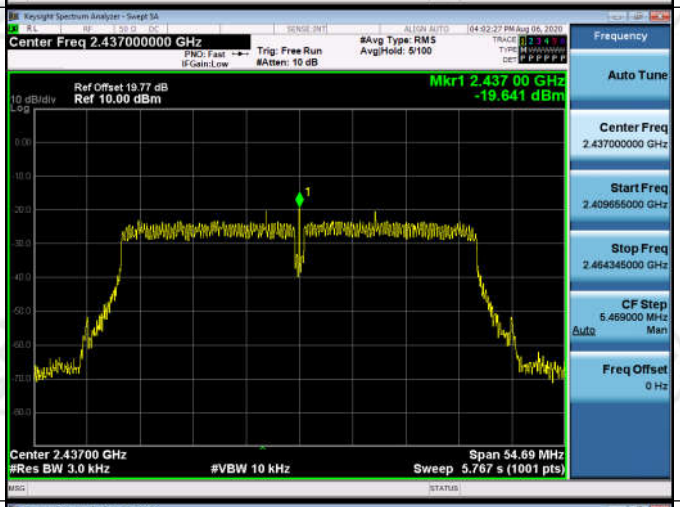
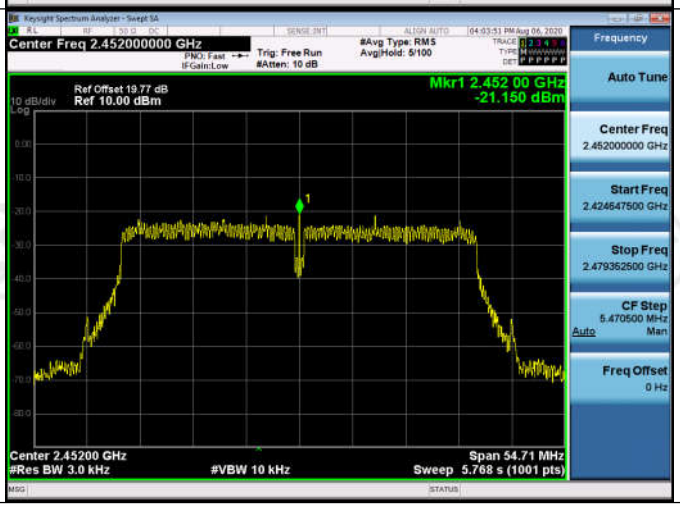
11N40SISO/LCH			
11N40SISO/MCH			
11N40SISO/HCH			

Appendix F): Antenna Requirement

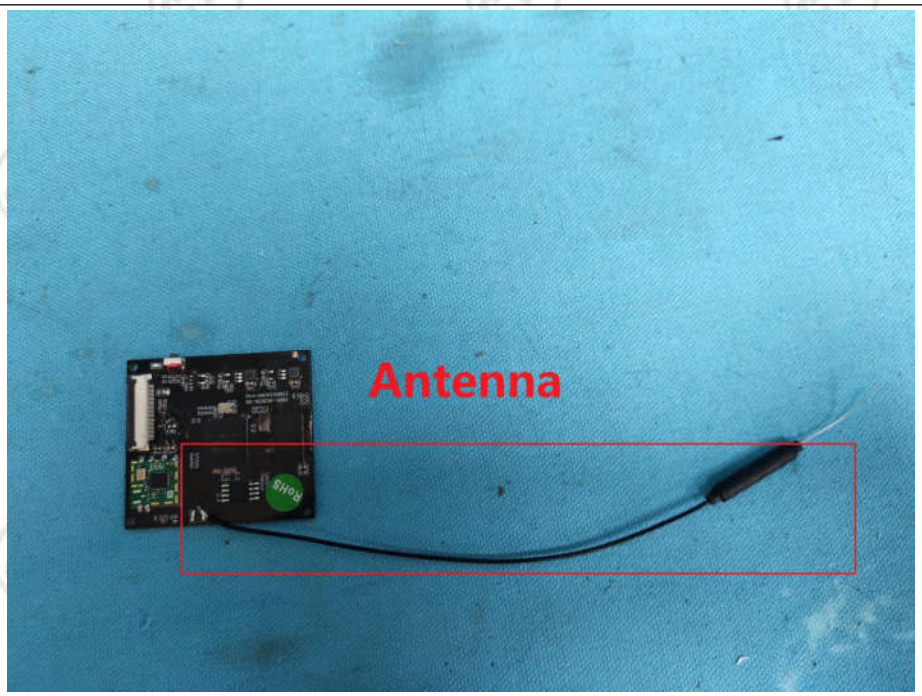
15.203 requirement:

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 Monopole Antenna. The best case gain of the antenna is 2dBi.

Appendix G): AC Power Line Conducted Emission

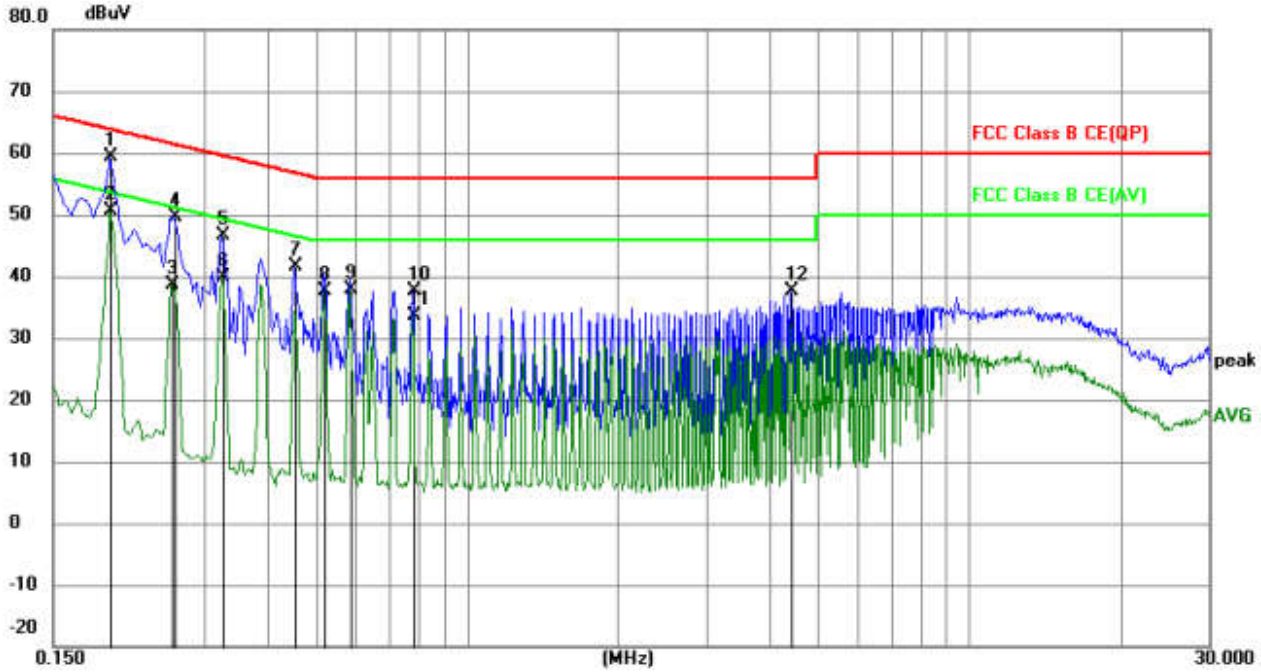
<table>
<tr><td>Test Procedure:</td><td>Test frequency range :150KHz-30MHz
1)The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (LineImpedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT wereconnected to a second LISN 2, which was bonded to the groundreference plane in the same way as the LISN 1 for the unit beingmeasured. A multiple socket outlet strip was used to connect multiplepower 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 theground reference plane. And for floor-standing arrangement, the EUT wasplaced 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 groundreference plane. The LISN 1 was placed 0.8 m from the boundary of theunit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance wasbetween the closest points of the LISN 1 and the EUT. All other units ofthe 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.</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBμV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.
NOTE : The lower limit is applicable at the transition frequency</td></tr>
</table>

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

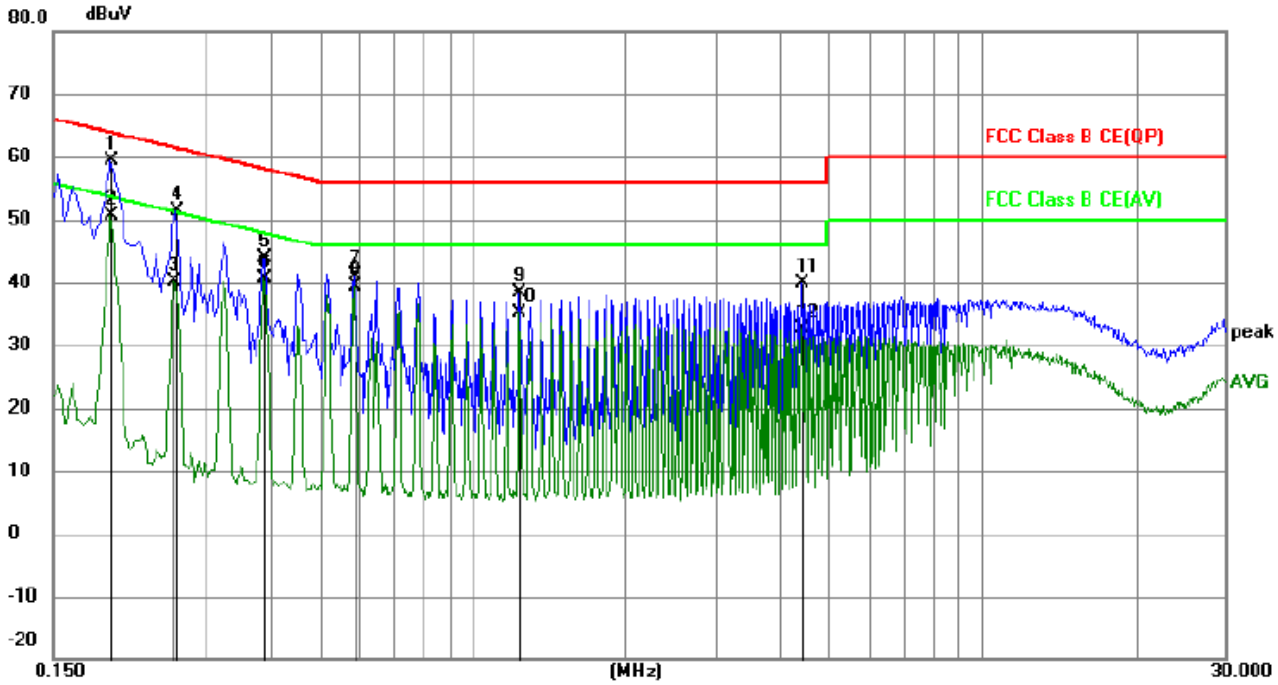
Quasi-Peak and Average measurement were performed at the frequencies with maximized peakemission were detected.

Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1949	49.58	9.86	59.44	63.83	-4.39	QP	
2	*	0.1949	40.66	9.86	50.52	53.83	-3.31	AVG	
3		0.2580	28.61	9.99	38.60	51.50	-12.90	AVG	
4		0.2625	39.75	10.00	49.75	61.35	-11.60	QP	
5		0.3255	36.54	10.04	46.58	59.57	-12.99	QP	
6		0.3255	29.77	10.04	39.81	49.57	-9.76	AVG	
7		0.4560	31.57	9.98	41.55	56.77	-15.22	QP	
8		0.5190	27.48	10.04	37.52	46.00	-8.48	AVG	
9		0.5865	27.77	9.99	37.76	46.00	-8.24	AVG	
10		0.7799	27.95	9.76	37.71	56.00	-18.29	QP	
11		0.7799	23.75	9.76	33.51	46.00	-12.49	AVG	
12		4.4160	27.89	9.77	37.66	56.00	-18.34	QP	

Neutral line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1949	49.41	9.86	59.27	63.83	-4.56	QP	
2	*	0.1949	40.69	9.86	50.55	53.83	-3.28	AVG	
3		0.2580	30.26	9.99	40.25	51.50	-11.25	AVG	
4		0.2625	41.46	10.00	51.46	61.35	-9.89	QP	
5		0.3885	33.93	9.91	43.84	58.10	-14.26	QP	
6		0.3885	30.61	9.91	40.52	48.10	-7.58	AVG	
7		0.5865	31.16	9.99	41.15	56.00	-14.85	QP	
8		0.5865	29.30	9.99	39.29	46.00	-6.71	AVG	
9		1.2345	28.69	9.75	38.44	56.00	-17.56	QP	
10		1.2345	25.26	9.75	35.01	46.00	-10.99	AVG	
11		4.4160	30.10	9.77	39.87	56.00	-16.13	QP	
12		4.4160	22.74	9.77	32.51	46.00	-13.49	AVG	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

Appendix H): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:

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

Test Procedure:

Below 1GHz test procedure as below:

Test method Refer as KDB 558074 D01

a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas 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 thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatable 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 SpecifiedBandwidth with Maximum Hold Mode.
f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber 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 Highest channel
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
j. Repeat above procedures until all frequencies measured was complete.

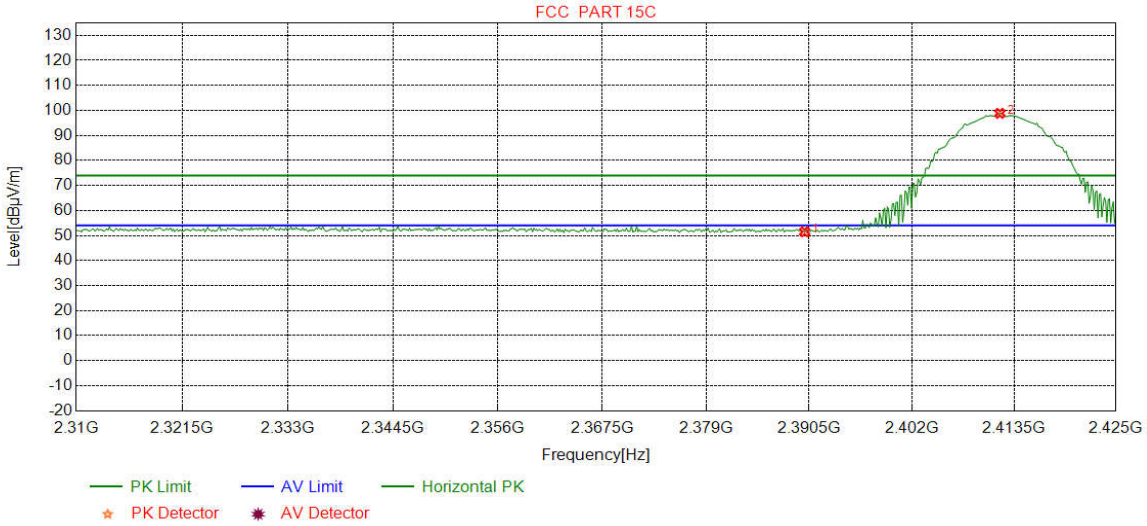
Limit:

Frequency	Limit (dBμV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test plot as follows:

Mode:	802.11 b(1Mbps) Transmitting	Channel:	2412
Remark:	PK		

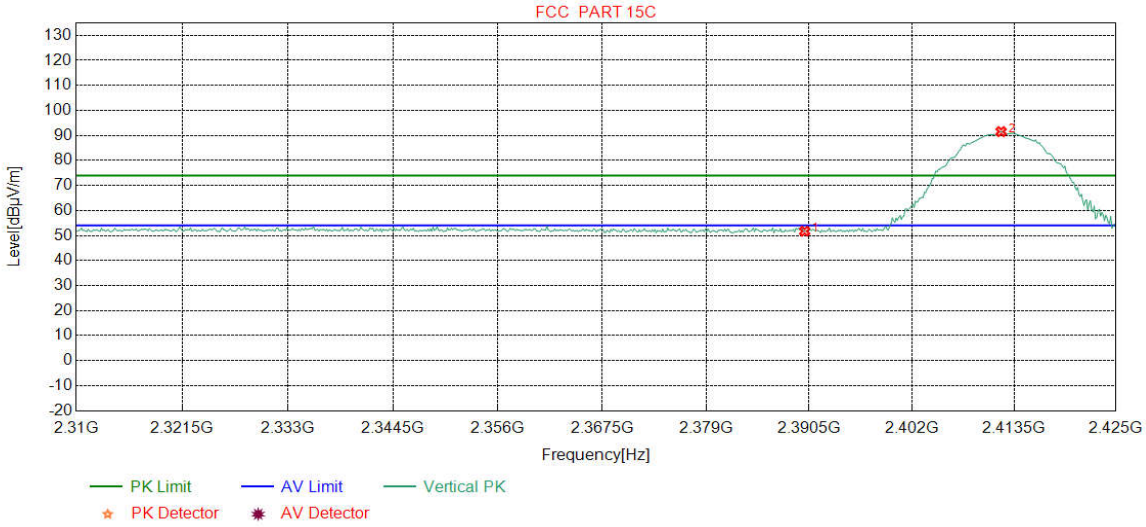
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	48.98	51.48	74.00	22.52	Pass	Horizontal
2	2411.9024	32.28	13.35	-43.12	96.32	98.83	74.00	-24.83	Pass	Horizontal

Mode:	802.11 b(1Mbps) Transmitting	Channel:	2412
Remark:	PK		

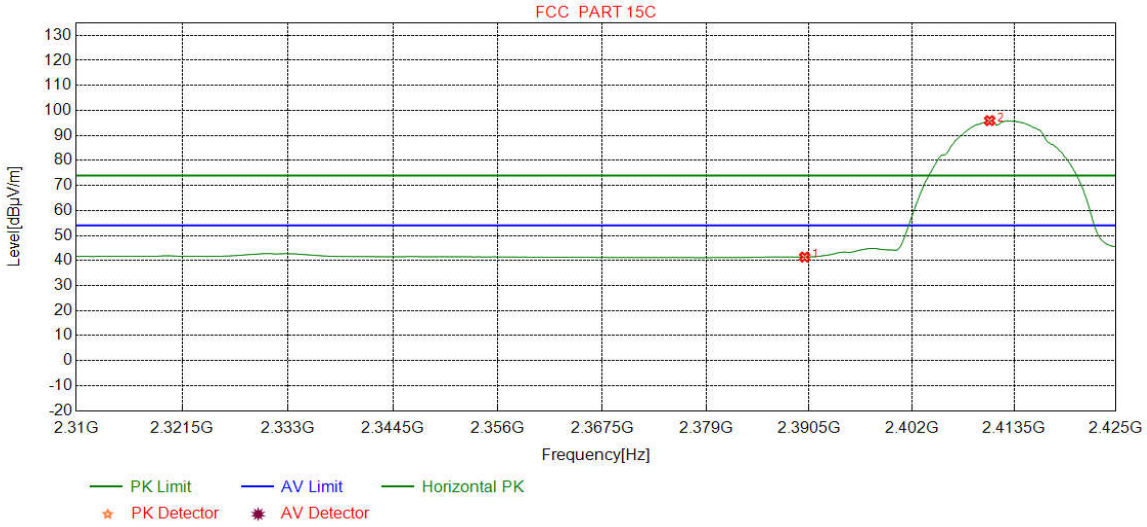
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.21	51.71	74.00	22.29	Pass	Vertical
2	2412.0463	32.28	13.36	-43.13	89.02	91.53	74.00	-17.53	Pass	Vertical

Mode:	802.11 b(1Mbps) Transmitting	Channel:	2412
Remark:	AV		

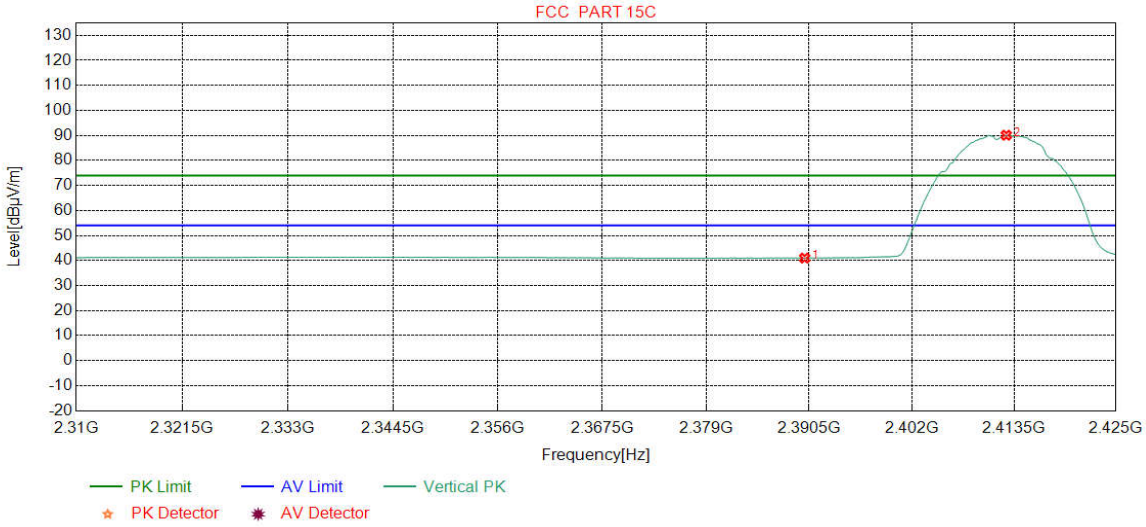
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.88	41.38	54.00	12.62	Pass	Horizontal
2	2410.7509	32.28	13.35	-43.12	93.41	95.92	54.00	-41.92	Pass	Horizontal

Mode:	802.11 b(1Mbps) Transmitting	Channel:	2412
Remark:	AV		

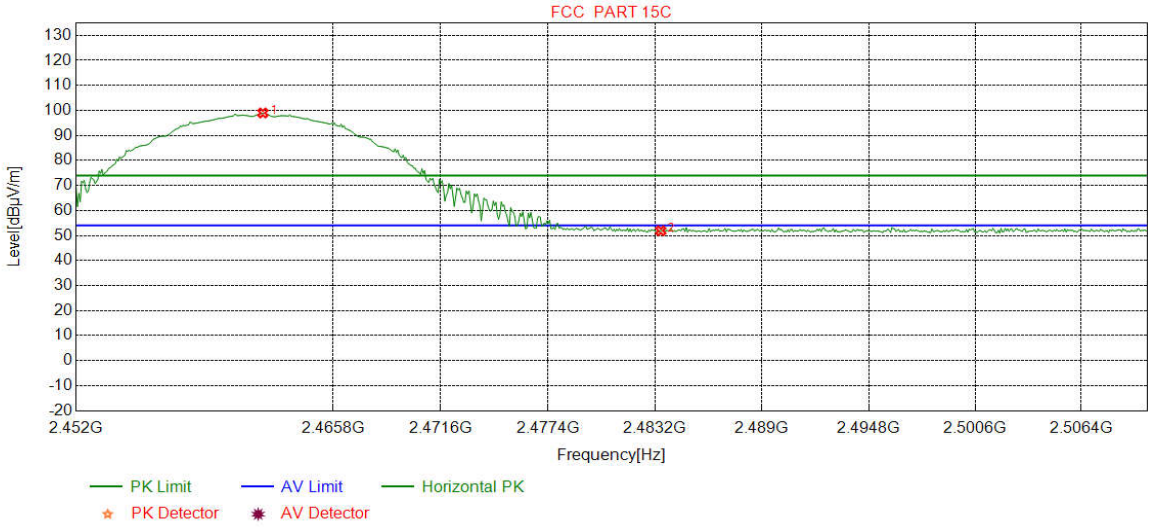
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.47	40.97	54.00	13.03	Pass	Vertical
2	2412.6220	32.28	13.36	-43.12	87.56	90.08	54.00	-36.08	Pass	Vertical

Mode:	802.11 b(1Mbps) Transmitting	Channel:	2462
Remark:	PK		

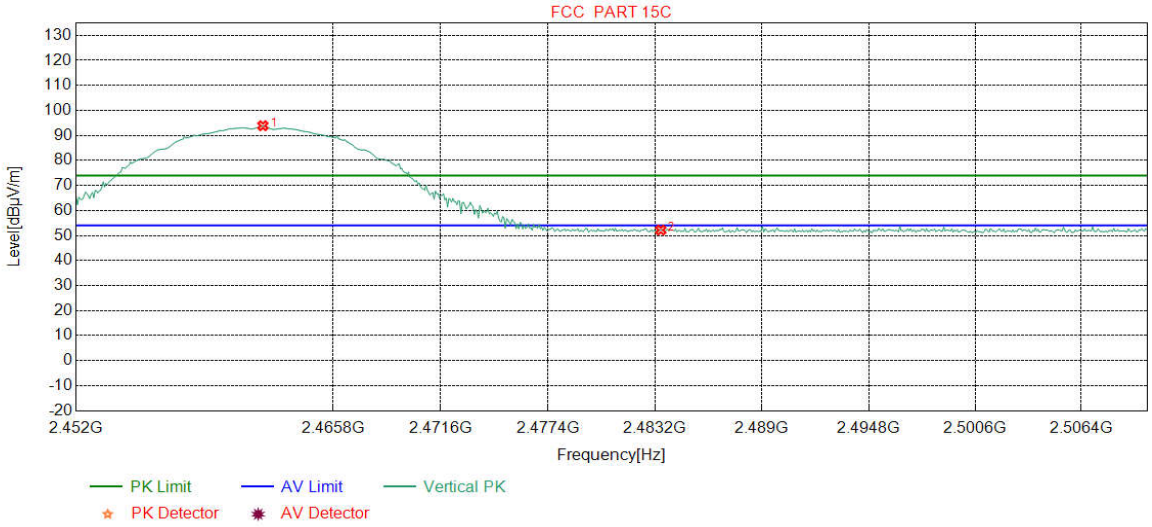
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2462.0175	32.35	13.47	-43.11	96.27	98.98	74.00	-24.98	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.23	51.88	74.00	22.12	Pass	Horizontal

Mode:	802.11 b(1Mbps) Transmitting	Channel:	2462
Remark:	PK		

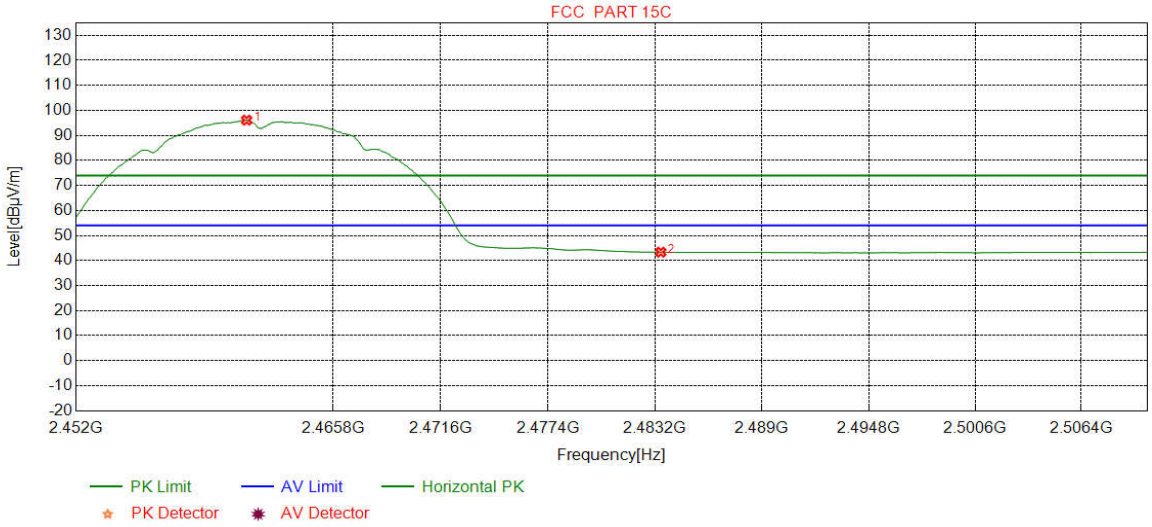
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2462.0175	32.35	13.47	-43.11	91.17	93.88	74.00	-19.88	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.52	52.17	74.00	21.83	Pass	Vertical

Mode:	802.11 b(1Mbps) Transmitting	Channel:	2462
Remark:	AV		

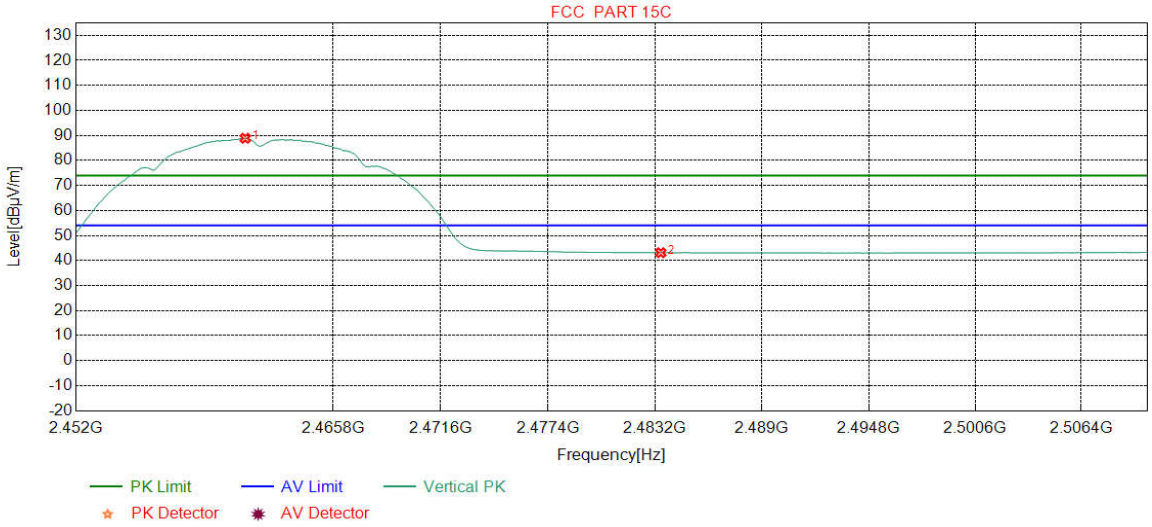
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.1464	32.35	13.48	-43.11	93.38	96.10	54.00	-42.10	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.68	43.33	54.00	10.67	Pass	Horizontal

Mode:	802.11 b(1Mbps) Transmitting	Channel:	2462
Remark:	AV		

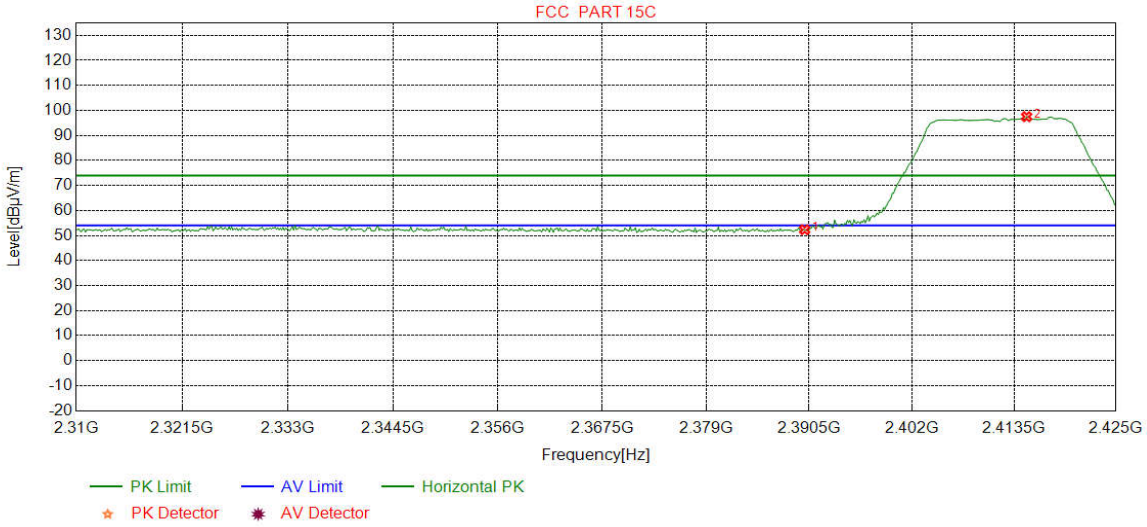
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2461.0738	32.35	13.48	-43.11	86.16	88.88	54.00	-34.88	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.47	43.12	54.00	10.88	Pass	Vertical

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2412
Remark:	PK		

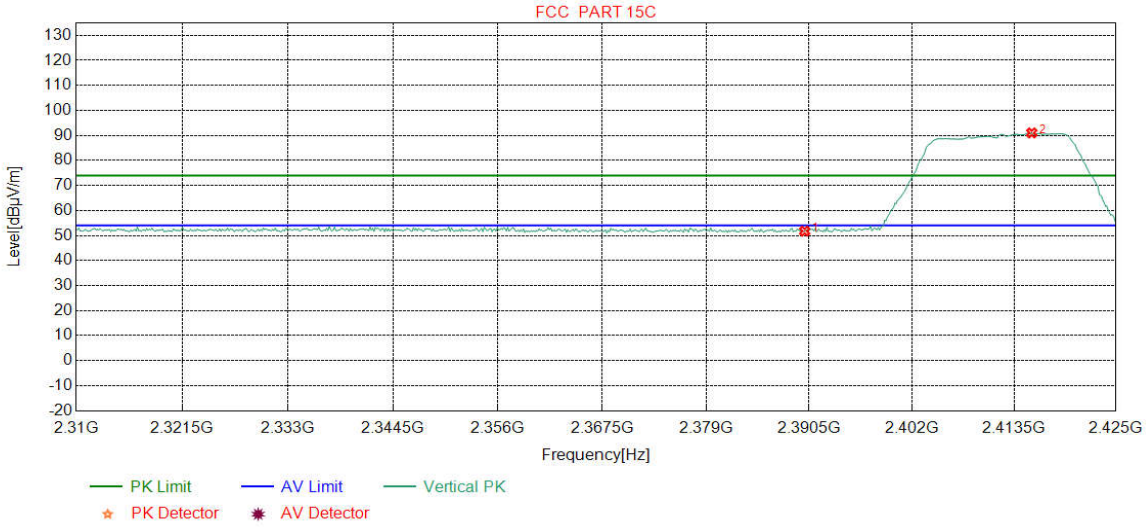
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.84	52.34	74.00	21.66	Pass	Horizontal
2	2414.9249	32.28	13.37	-43.12	94.95	97.48	74.00	-23.48	Pass	Horizontal

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2412
Remark:	PK		

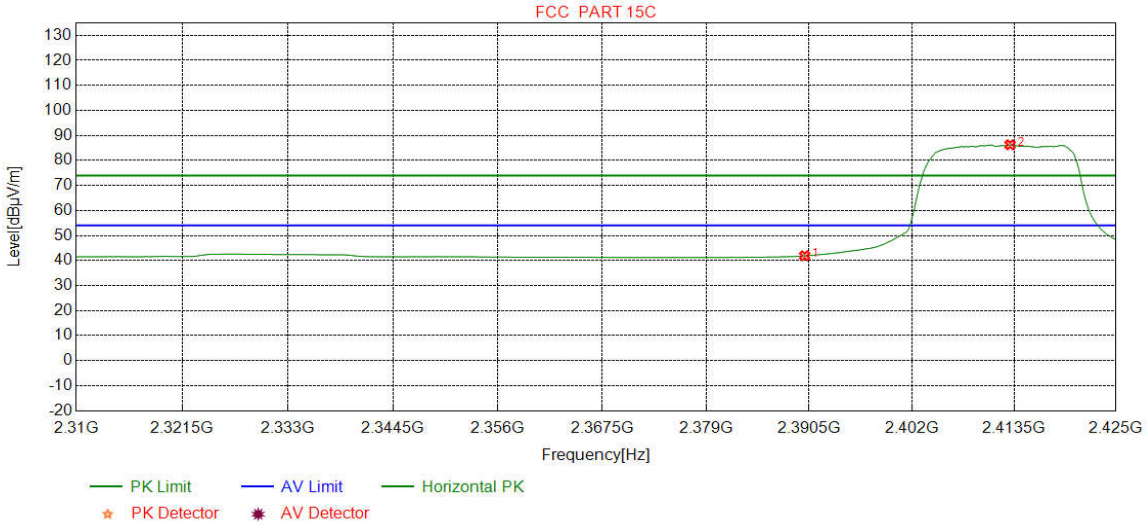
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.24	51.74	74.00	22.26	Pass	Vertical
2	2415.5006	32.28	13.37	-43.11	88.46	91.00	74.00	-17.00	Pass	Vertical

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2412
Remark:	AV		

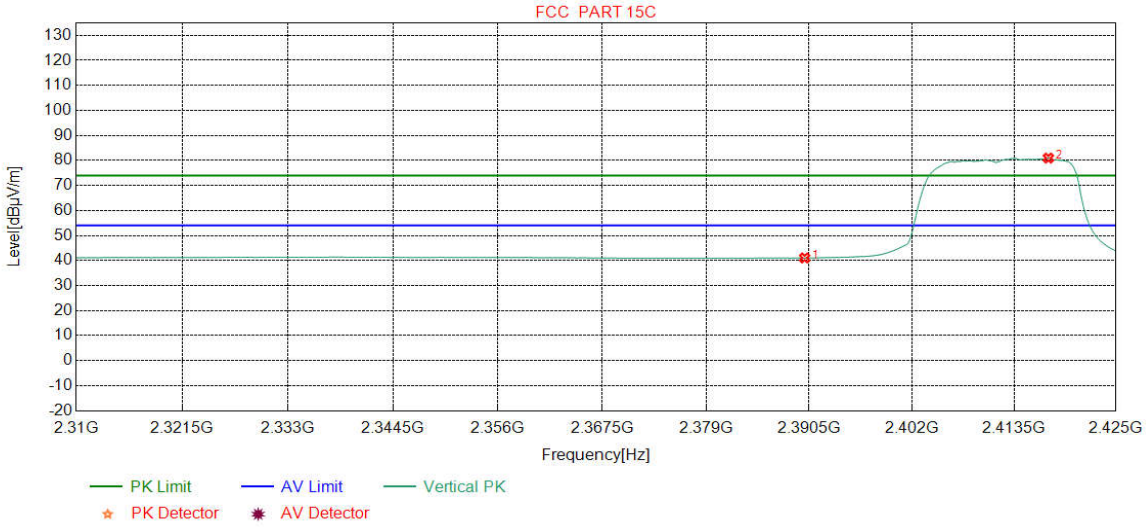
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	39.39	41.89	54.00	12.11	Pass	Horizontal
2	2413.0538	32.28	13.36	-43.12	83.74	86.26	54.00	-32.26	Pass	Horizontal

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2412
Remark:	AV		

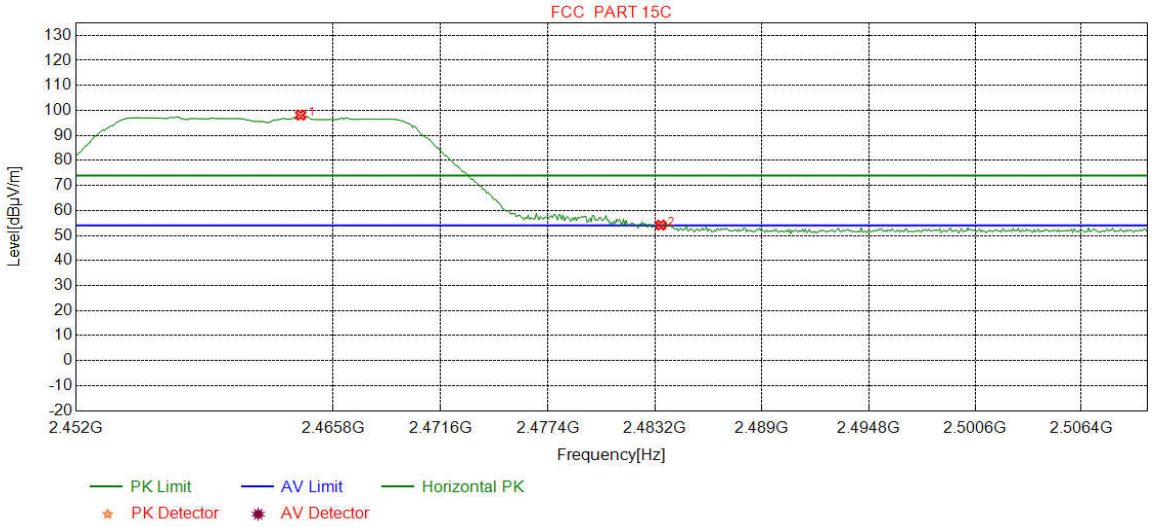
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.53	41.03	54.00	12.97	Pass	Vertical
2	2417.3717	32.28	13.38	-43.11	78.40	80.95	54.00	-26.95	Pass	Vertical

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2462
Remark:	PK		

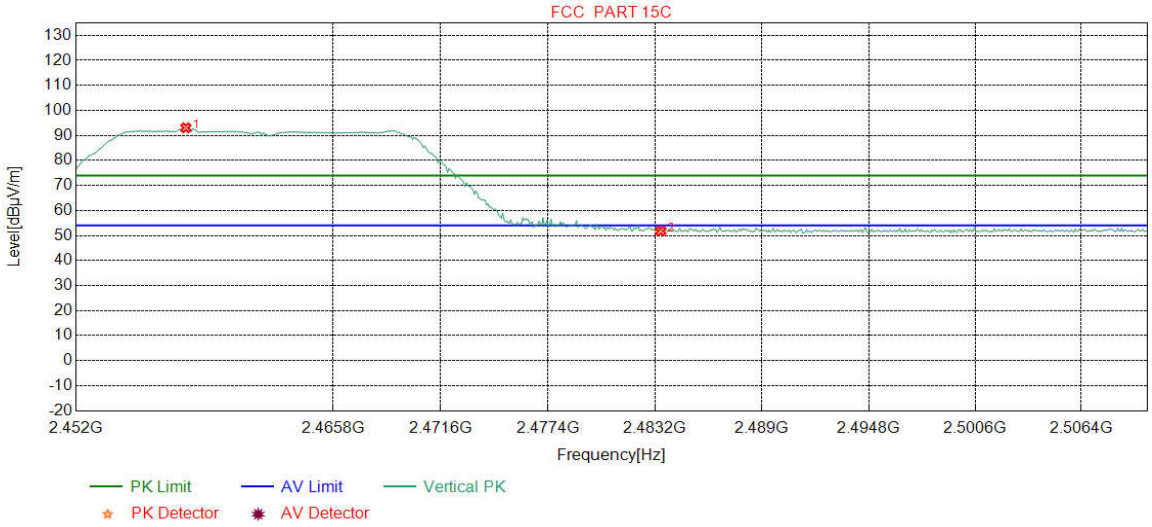
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2464.0501	32.35	13.47	-43.11	95.42	98.13	74.00	-24.13	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	51.52	54.17	74.00	19.83	Pass	Horizontal

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2462
Remark:	PK		

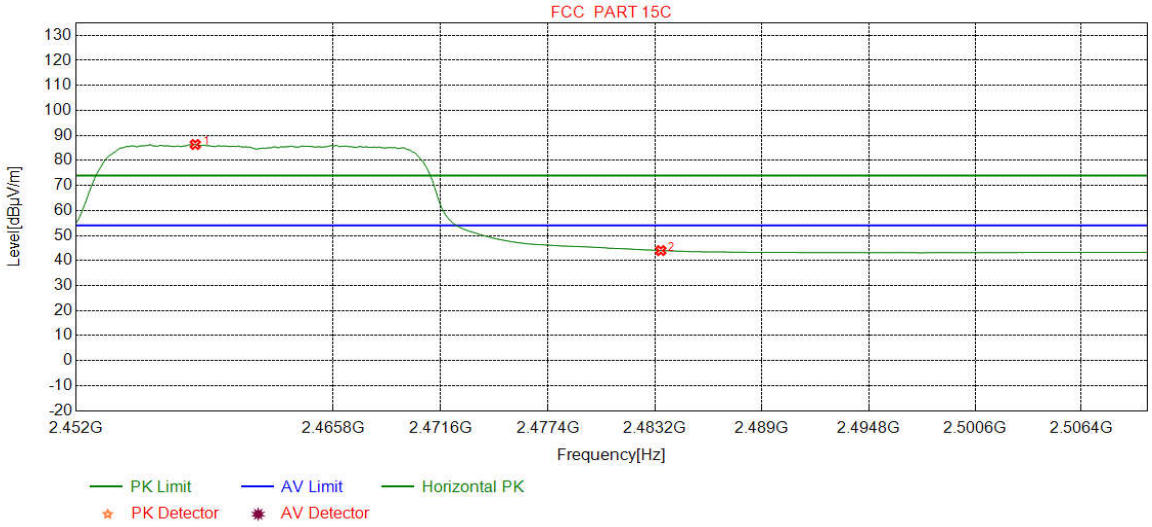
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2457.8799	32.34	13.49	-43.10	90.31	93.04	74.00	-19.04	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.16	51.81	74.00	22.19	Pass	Vertical

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2462
Remark:	AV		

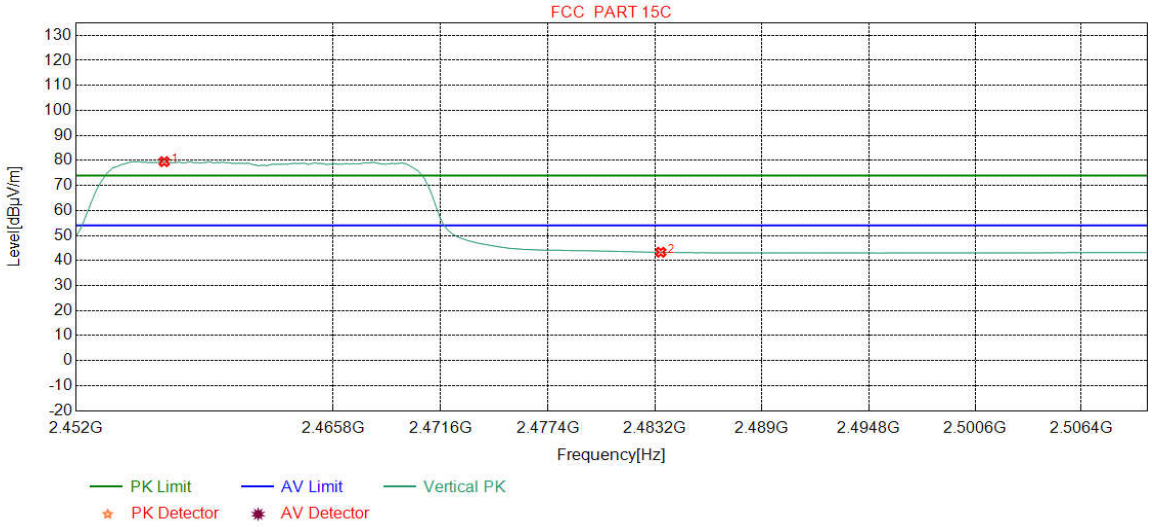
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2458.3880	32.34	13.49	-43.11	83.66	86.38	54.00	-32.38	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	41.32	43.97	54.00	10.03	Pass	Horizontal

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2462
Remark:	AV		

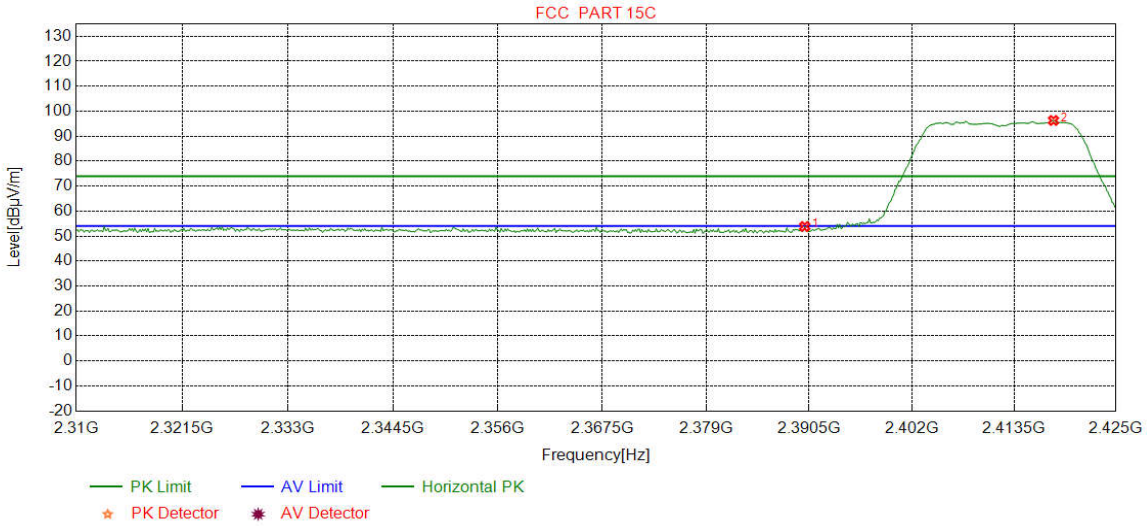
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2456.7184	32.34	13.50	-43.11	76.78	79.51	54.00	-25.51	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.66	43.31	54.00	10.69	Pass	Vertical

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2412
Remark:	PK		

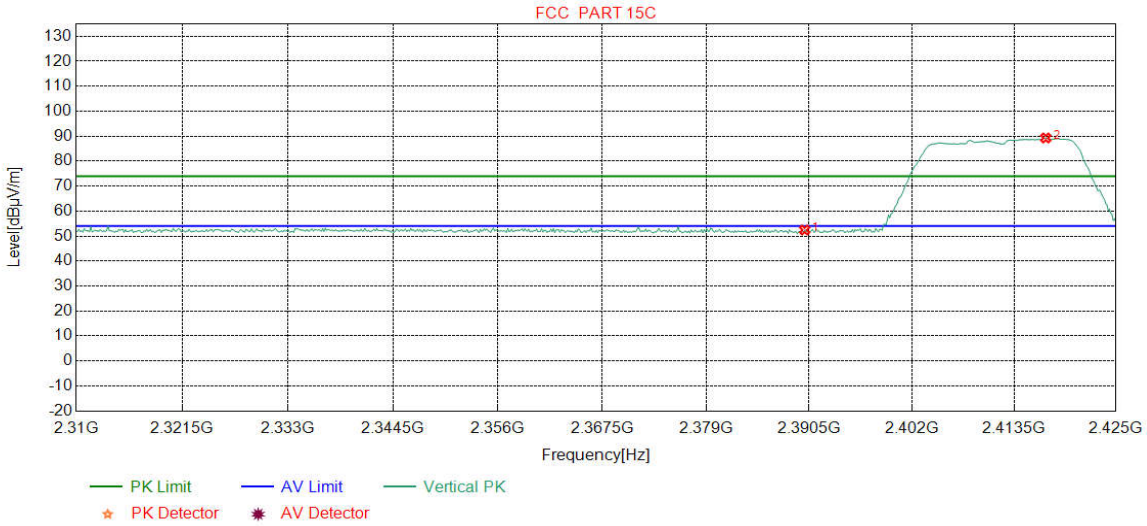
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	51.31	53.81	74.00	20.19	Pass	Horizontal
2	2417.9474	32.29	13.38	-43.12	93.74	96.29	74.00	-22.29	Pass	Horizontal

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2412
Remark:	PK		

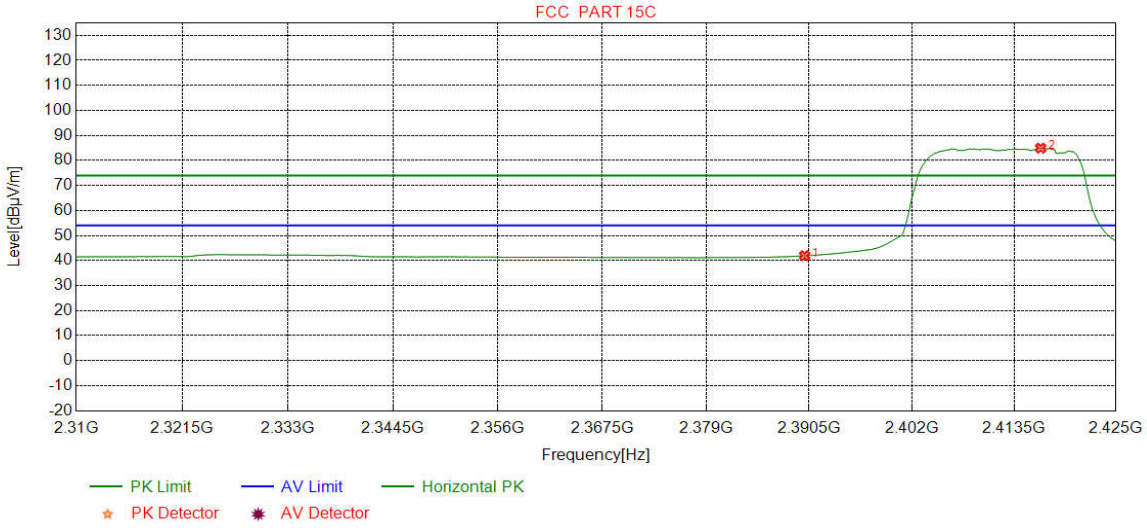
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.94	52.44	74.00	21.56	Pass	Vertical
2	2417.0839	32.28	13.38	-43.11	86.73	89.28	74.00	-15.28	Pass	Vertical

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2412
Remark:	AV		

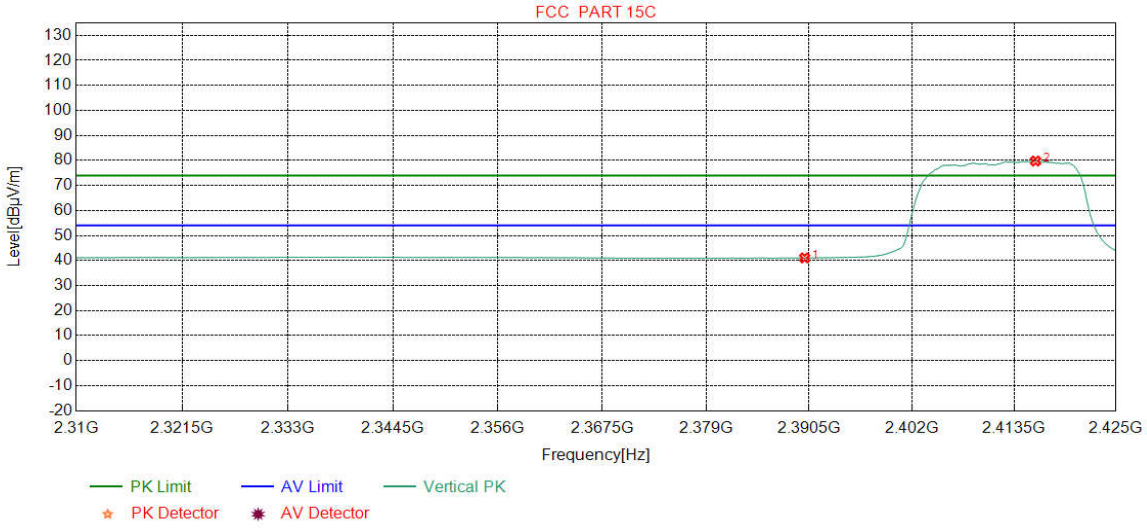
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	39.42	41.92	54.00	12.08	Pass	Horizontal
2	2416.5081	32.28	13.38	-43.12	82.38	84.92	54.00	-30.92	Pass	Horizontal

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2412
Remark:	AV		

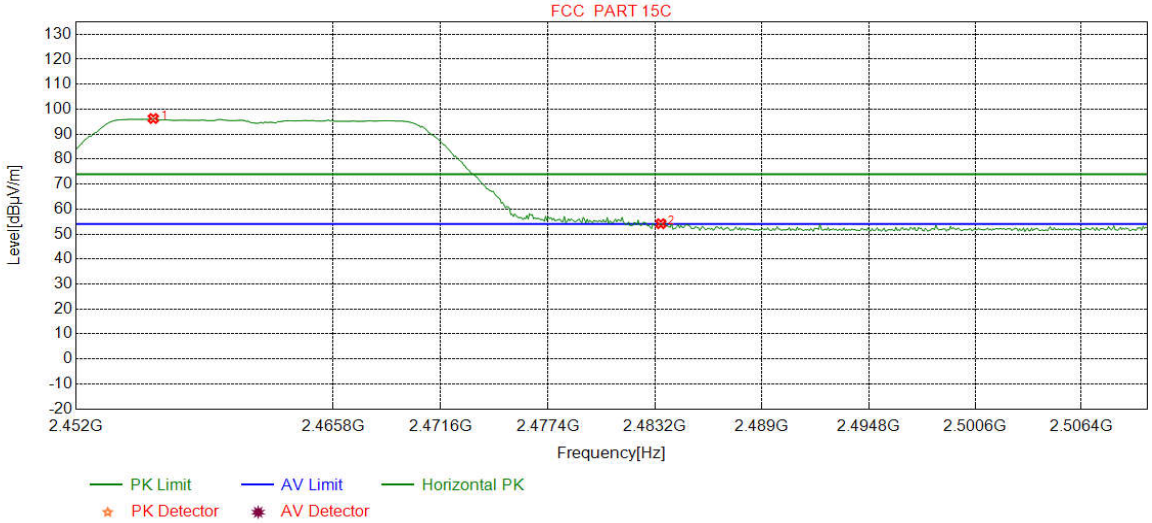
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.55	41.05	54.00	12.95	Pass	Vertical
2	2415.9324	32.28	13.37	-43.11	77.23	79.77	54.00	-25.77	Pass	Vertical

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2462
Remark:	PK		

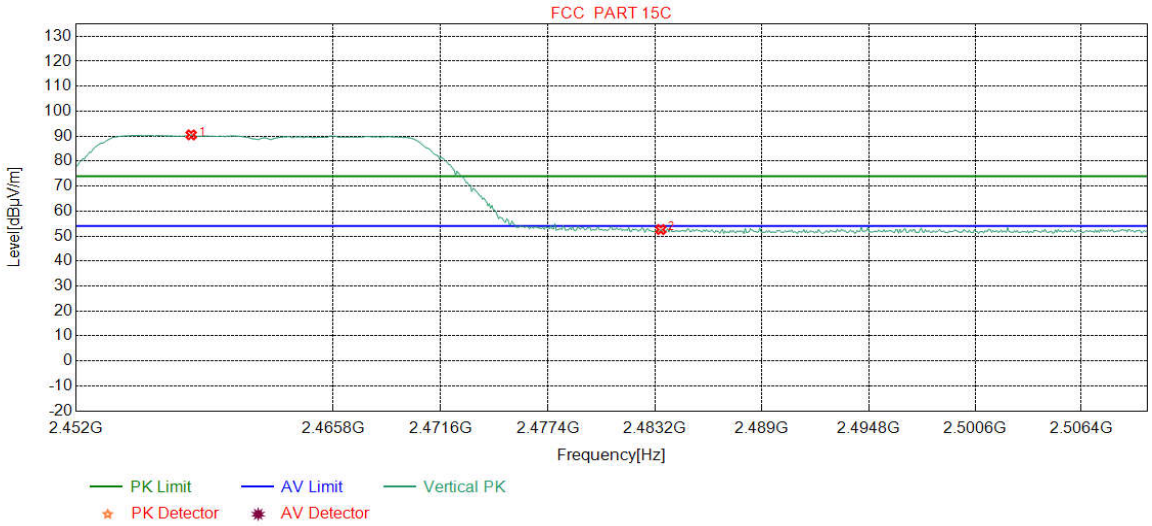
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2456.1377	32.34	13.50	-43.11	93.54	96.27	74.00	-22.27	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	51.49	54.14	74.00	19.86	Pass	Horizontal

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2462
Remark:	PK		

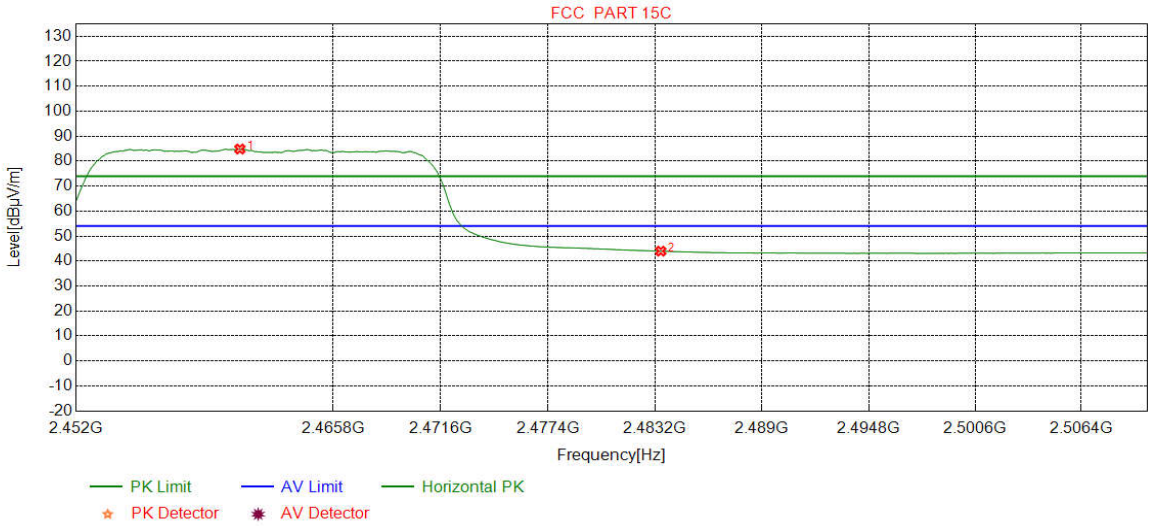
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2458.1702	32.34	13.49	-43.10	87.77	90.50	74.00	-16.50	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.95	52.60	74.00	21.40	Pass	Vertical

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2462
Remark:	AV		

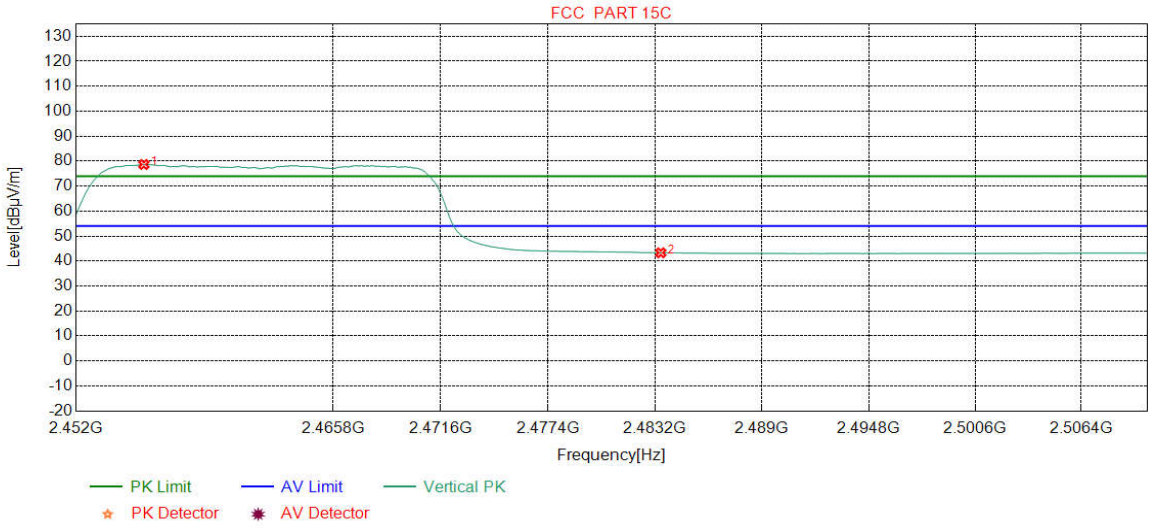
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2460.7835	32.35	13.48	-43.11	82.14	84.86	54.00	-30.86	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	41.31	43.96	54.00	10.04	Pass	Horizontal

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2462
Remark:	AV		

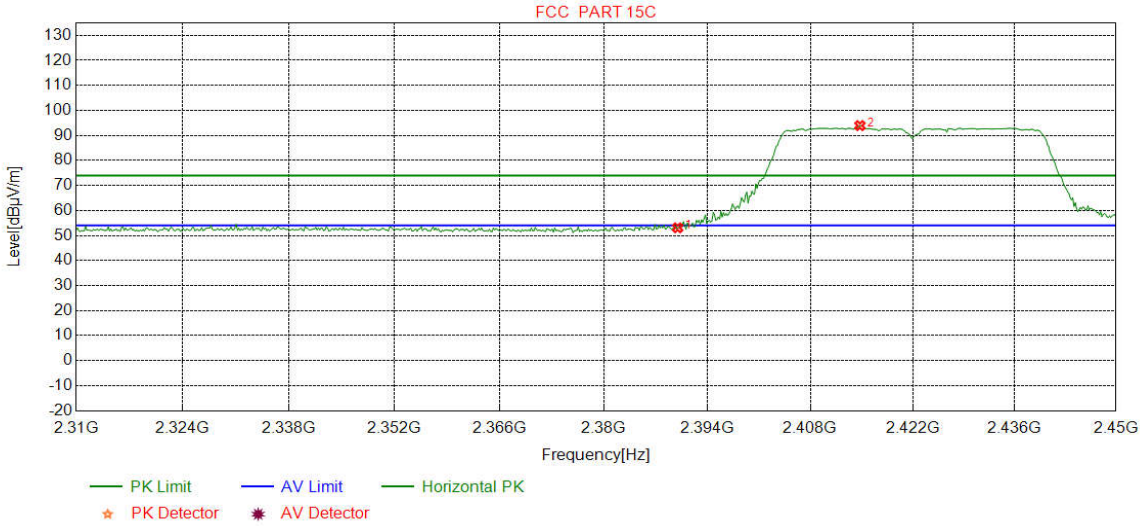
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2455.6295	32.34	13.50	-43.11	75.93	78.66	54.00	-24.66	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.65	43.30	54.00	10.70	Pass	Vertical

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2422
Remark:	PK		

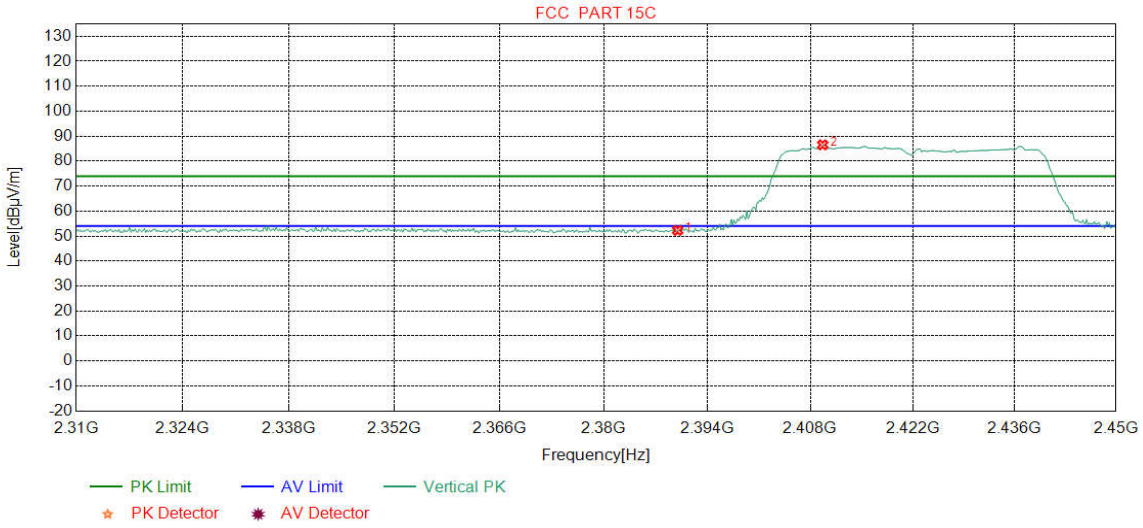
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	50.58	53.08	74.00	20.92	Pass	Horizontal
2	2414.7810	32.28	13.37	-43.12	91.39	93.92	74.00	-19.92	Pass	Horizontal

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2422
Remark:	PK		

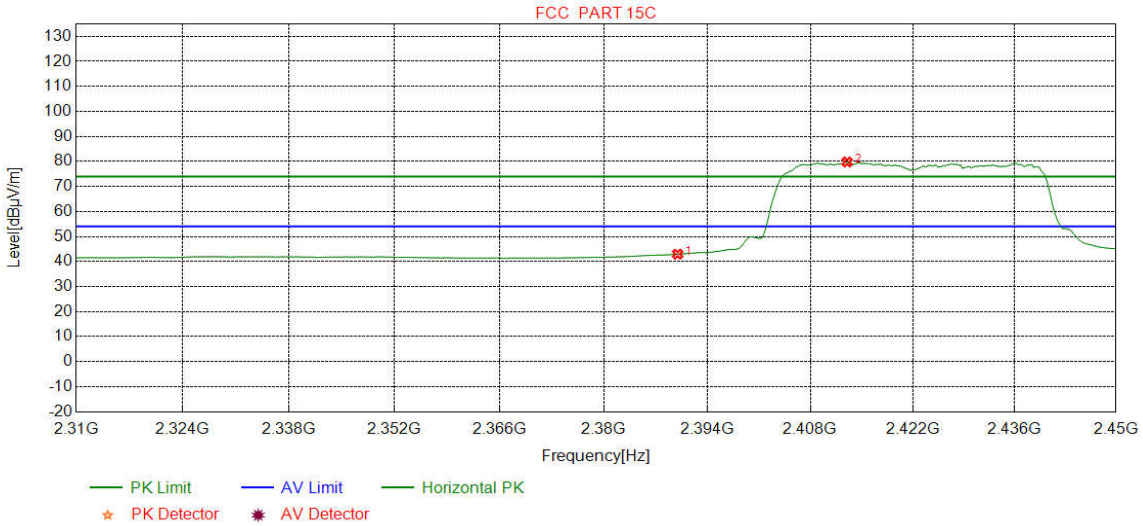
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.79	52.29	74.00	21.71	Pass	Vertical
2	2409.6996	32.27	13.34	-43.11	84.02	86.52	74.00	-12.52	Pass	Vertical

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2422
Remark:	AV		

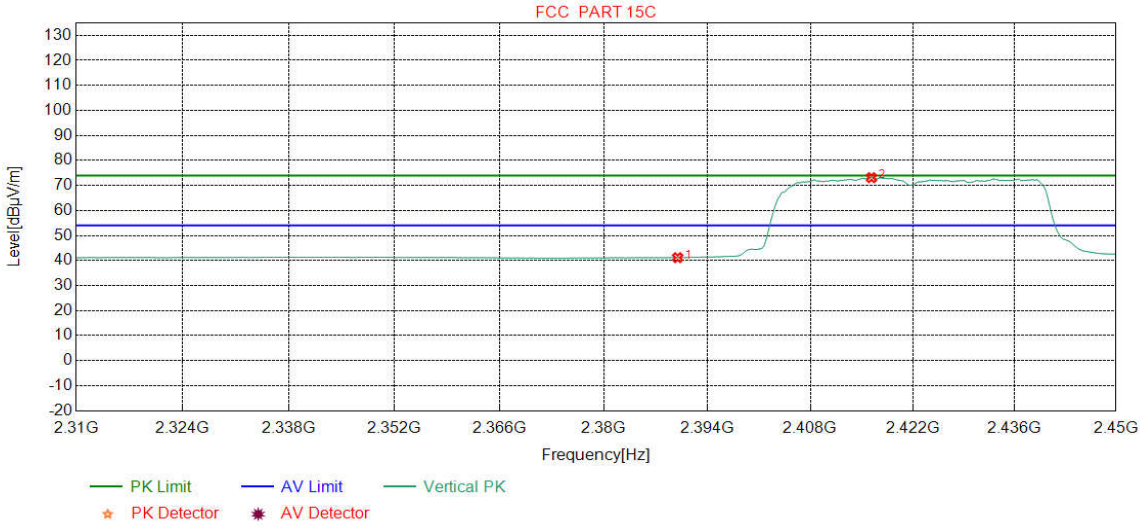
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	40.46	42.96	54.00	11.04	Pass	Horizontal
2	2413.0288	32.28	13.36	-43.12	77.28	79.80	54.00	-25.80	Pass	Horizontal

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2422
Remark:	AV		

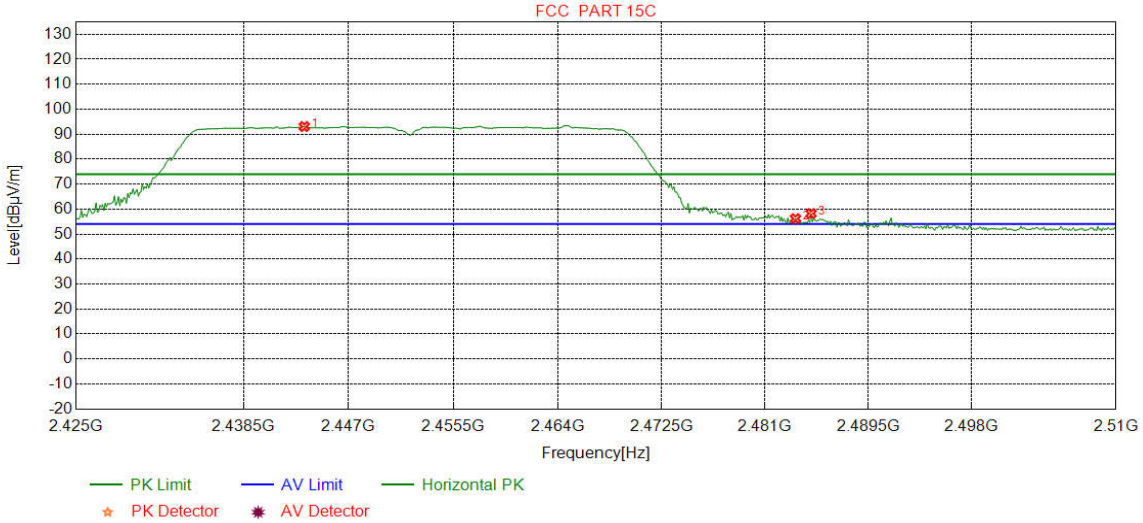
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.66	41.16	54.00	12.84	Pass	Vertical
2	2416.3579	32.28	13.38	-43.12	70.57	73.11	54.00	-19.11	Pass	Vertical

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2452
Remark:	PK		

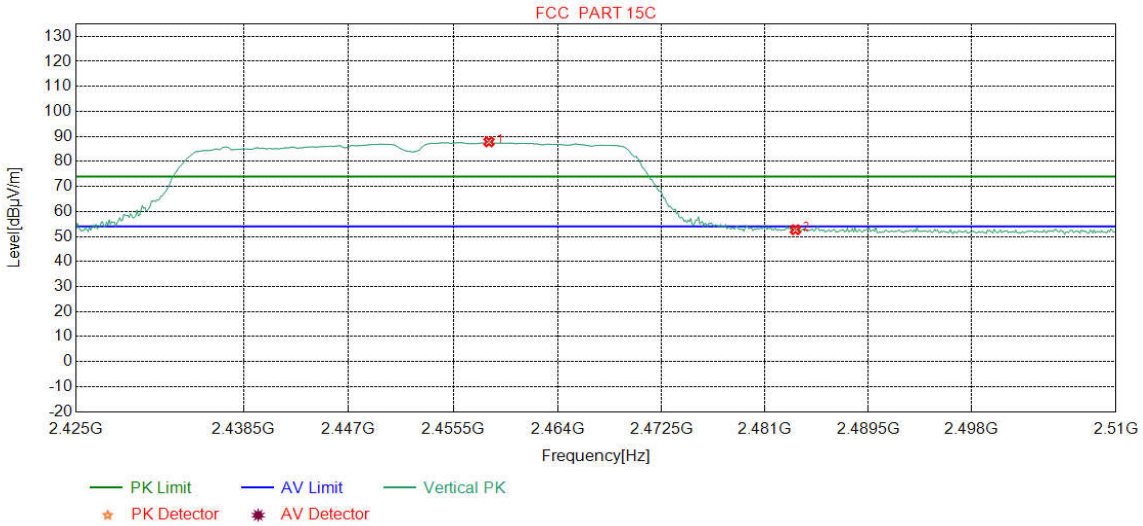
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2443.4043	32.32	13.50	-43.11	90.34	93.05	74.00	-19.05	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	53.54	56.19	74.00	17.81	Pass	Horizontal
3	2484.7872	32.38	13.37	-43.10	55.57	58.22	74.00	15.78	Pass	Horizontal

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2452
Remark:	PK		

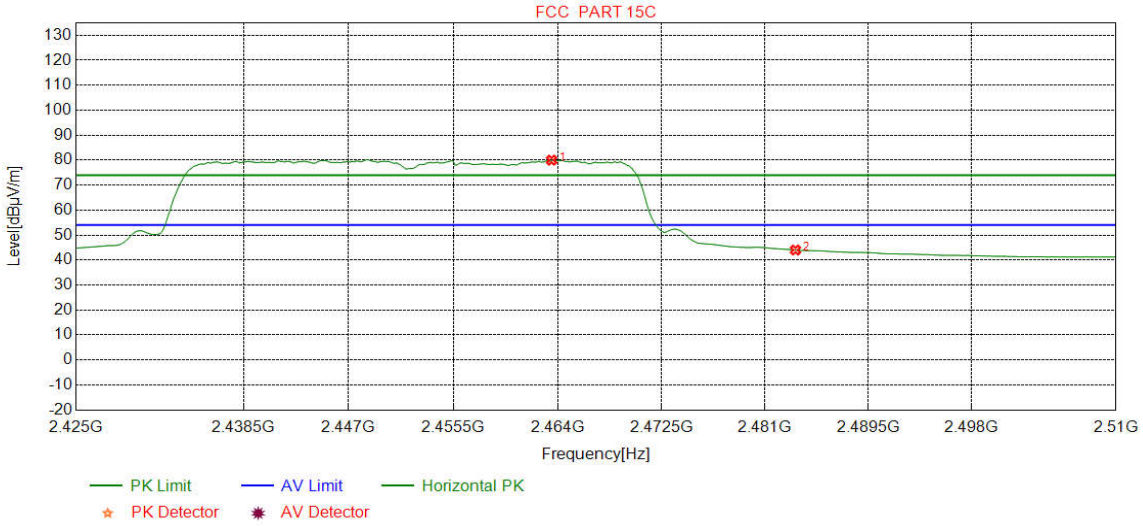
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2458.4043	32.34	13.49	-43.11	85.10	87.82	74.00	-13.82	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	50.05	52.70	74.00	21.30	Pass	Vertical

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2452
Remark:	AV		

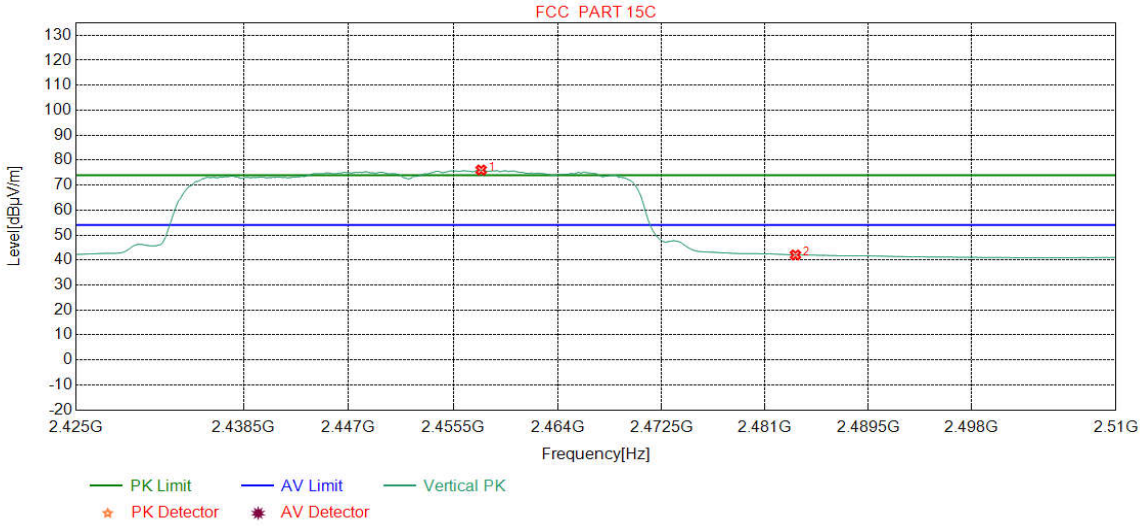
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2463.5106	32.35	13.47	-43.11	77.29	80.00	54.00	-26.00	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	41.36	44.01	54.00	9.99	Pass	Horizontal

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2452
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	2457.7660	32.34	13.49	-43.10	73.33	76.06	54.00	-22.06	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	39.38	42.03	54.00	11.97	Pass	Vertical

Note:

1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate, find the 1Mbps of rate is the worst case of 802.11b; 6Mbpsof rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40),and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Appendix I): Radiated Spurious Emissions

Receiver Setup:

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	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

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 camber. 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 rotatable 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 .
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
j. Repeat above procedures until all frequencies measured was complete.

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBμV/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.

Radiated Spurious Emissions test Data:
Radiated Emission below 1GHz

Mode:			802.11g(6Mbps) Transmitting					Channel:		2437	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	32.3282	10.59	0.64	-31.49	44.72	24.46	40.00	15.54	Pass	H	PK
2	45.0365	13.20	0.75	-31.71	41.48	23.72	40.00	16.28	Pass	H	PK
3	104.3094	10.96	1.20	-31.98	54.02	34.20	43.50	9.30	Pass	H	PK
4	228.3848	11.64	1.79	-31.91	56.89	38.41	46.00	7.59	Pass	H	PK
5	269.1289	12.58	1.96	-31.88	55.09	37.75	46.00	8.25	Pass	H	PK
6	480.0280	16.68	2.61	-31.90	45.96	33.35	46.00	12.65	Pass	H	PK
7	130.2110	7.69	1.33	-32.02	53.51	30.51	43.50	12.99	Pass	V	PK
8	192.1032	10.15	1.62	-31.95	55.16	34.98	43.50	8.52	Pass	V	PK
9	233.8174	11.78	1.81	-31.90	55.71	37.40	46.00	8.60	Pass	V	PK
10	480.0280	16.68	2.61	-31.90	44.00	31.39	46.00	14.61	Pass	V	PK
11	666.2866	19.53	3.08	-32.06	46.37	36.92	46.00	9.08	Pass	V	PK
12	960.0320	22.46	3.71	-31.09	43.95	39.03	54.00	14.97	Pass	V	PK

Transmitter Emission above 1GHz

Mode:			802.11 b(1Mbps) Transmitting					Channel:		2412	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1104.2104	28.00	2.57	-42.99	55.84	43.42	74.00	30.58	Pass	H	PK
2	1731.8732	29.93	3.22	-42.68	52.49	42.96	74.00	31.04	Pass	H	PK
3	3053.0035	33.22	4.82	-43.10	51.19	46.13	74.00	27.87	Pass	H	PK
4	4824.1216	34.50	4.61	-42.80	51.46	47.77	74.00	26.23	Pass	H	PK
5	7237.2825	36.34	5.79	-42.16	50.92	50.89	74.00	23.11	Pass	H	PK
6	9648.0000	37.66	6.72	-42.10	49.15	51.43	74.00	22.57	Pass	H	PK
7	1194.6195	28.09	2.66	-42.89	57.57	45.43	74.00	28.57	Pass	V	PK
8	2156.1156	31.92	3.65	-43.17	50.44	42.84	74.00	31.16	Pass	V	PK
9	2789.9790	32.86	4.22	-43.09	53.11	47.10	74.00	26.90	Pass	V	PK
10	4824.1216	34.50	4.61	-42.80	53.72	50.03	74.00	23.97	Pass	V	PK
11	7236.2824	36.34	5.79	-42.16	52.09	52.06	74.00	21.94	Pass	V	PK
12	9648.0000	37.66	6.72	-42.10	48.63	50.91	74.00	23.09	Pass	V	PK

Mode:			802.11 b(1Mbps) Transmitting					Channel:		2437	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1194.6195	28.09	2.66	-42.89	57.71	45.57	74.00	28.43	Pass	H	PK
2	1726.0726	29.89	3.22	-42.68	55.64	46.07	74.00	27.93	Pass	H	PK
3	2938.3938	33.10	4.40	-43.10	50.74	45.14	74.00	28.86	Pass	H	PK
4	4874.1249	34.50	4.78	-42.80	52.38	48.86	74.00	25.14	Pass	H	PK
5	7311.2874	36.41	5.85	-42.14	51.87	51.99	74.00	22.01	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	49.16	51.53	74.00	22.47	Pass	H	PK
7	1195.4195	28.10	2.66	-42.90	59.13	46.99	74.00	27.01	Pass	V	PK
8	2126.1126	31.88	3.62	-43.18	51.88	44.20	74.00	29.80	Pass	V	PK
9	3059.0039	33.22	4.81	-43.10	52.10	47.03	74.00	26.97	Pass	V	PK
10	4874.1249	34.50	4.78	-42.80	54.61	51.09	74.00	22.91	Pass	V	PK
11	7311.2874	36.41	5.85	-42.14	53.18	53.30	74.00	20.70	Pass	V	PK
12	9748.0000	37.70	6.77	-42.10	49.85	52.22	74.00	21.78	Pass	V	PK

Mode:			802.11 b(1Mbps) Transmitting					Channel:		2462	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1195.4195	28.10	2.66	-42.90	62.62	50.48	74.00	23.52	Pass	H	PK
2	1440.4440	28.34	2.94	-42.85	54.67	43.10	74.00	30.90	Pass	H	PK
3	3930.0620	33.74	4.34	-43.01	49.71	44.78	74.00	29.22	Pass	H	PK
4	4924.0000	34.50	4.85	-42.80	52.00	48.55	74.00	25.45	Pass	H	PK
5	7386.0000	36.49	5.85	-42.13	51.96	52.17	74.00	21.83	Pass	H	PK
6	9848.0000	37.74	6.83	-42.10	48.54	51.01	74.00	22.99	Pass	H	PK
7	1199.0199	28.10	2.66	-42.89	58.09	45.96	74.00	28.04	Pass	V	PK
8	2127.1127	31.88	3.62	-43.18	52.29	44.61	74.00	29.39	Pass	V	PK
9	2936.5937	33.10	4.39	-43.10	51.66	46.05	74.00	27.95	Pass	V	PK
10	4924.0000	34.50	4.85	-42.80	54.01	50.56	74.00	23.44	Pass	V	PK
11	7385.2924	36.49	5.85	-42.13	54.34	54.55	74.00	19.45	Pass	V	PK
12	9848.0000	37.74	6.83	-42.10	49.03	51.50	74.00	22.50	Pass	V	PK

Mode:			802.11 g(6Mbps) Transmitting					Channel:		2412	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1200.6201	28.10	2.66	-42.89	59.93	47.80	74.00	26.20	Pass	H	PK
2	1439.6440	28.34	2.94	-42.85	57.26	45.69	74.00	28.31	Pass	H	PK
3	2788.5789	32.86	4.22	-43.10	51.43	45.41	74.00	28.59	Pass	H	PK
4	4824.0000	34.50	4.61	-42.80	47.09	43.40	74.00	30.60	Pass	H	PK
5	7227.2818	36.33	5.80	-42.16	50.31	50.28	74.00	23.72	Pass	H	PK
6	9648.0000	37.66	6.72	-42.10	48.98	51.26	74.00	22.74	Pass	H	PK
7	1198.8199	28.10	2.66	-42.89	58.52	46.39	74.00	27.61	Pass	V	PK
8	1804.4804	30.41	3.33	-42.73	51.22	42.23	74.00	31.77	Pass	V	PK
9	3050.0033	33.22	4.83	-43.10	50.51	45.46	74.00	28.54	Pass	V	PK
10	4824.0000	34.50	4.61	-42.80	47.98	44.29	74.00	29.71	Pass	V	PK
11	7236.0000	36.34	5.79	-42.16	47.57	47.54	74.00	26.46	Pass	V	PK
12	9648.0000	37.66	6.72	-42.10	49.41	51.69	74.00	22.31	Pass	V	PK

Mode:			802.11 g(6Mbps) Transmitting					Channel:		2437	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1198.6199	28.10	2.66	-42.89	59.51	47.38	74.00	26.62	Pass	H	PK
2	1439.8440	28.34	2.94	-42.85	56.77	45.20	74.00	28.80	Pass	H	PK
3	3910.0607	33.73	4.34	-43.02	50.18	45.23	74.00	28.77	Pass	H	PK
4	4874.0000	34.50	4.78	-42.80	47.19	43.67	74.00	30.33	Pass	H	PK
5	7311.0000	36.41	5.85	-42.14	47.06	47.18	74.00	26.82	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	48.79	51.16	74.00	22.84	Pass	H	PK
7	1199.2199	28.10	2.66	-42.89	57.18	45.05	74.00	28.95	Pass	V	PK
8	2131.9132	31.88	3.62	-43.16	52.10	44.44	74.00	29.56	Pass	V	PK
9	2942.5943	33.11	4.40	-43.10	51.14	45.55	74.00	28.45	Pass	V	PK
10	4874.0000	34.50	4.78	-42.80	48.48	44.96	74.00	29.04	Pass	V	PK
11	7311.0000	36.41	5.85	-42.14	50.30	50.42	74.00	23.58	Pass	V	PK
12	9748.0000	37.70	6.77	-42.10	48.14	50.51	74.00	23.49	Pass	V	PK

Mode:			802.11 g(6Mbps) Transmitting					Channel:		2462	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1198.0198	28.10	2.66	-42.89	59.04	46.91	74.00	27.09	Pass	H	PK
2	1727.8728	29.90	3.22	-42.67	54.67	45.12	74.00	28.88	Pass	H	PK
3	4111.0741	33.96	4.36	-42.96	50.22	45.58	74.00	28.42	Pass	H	PK
4	4924.0000	34.50	4.85	-42.80	49.16	45.71	74.00	28.29	Pass	H	PK
5	7386.0000	36.49	5.85	-42.13	48.83	49.04	74.00	24.96	Pass	H	PK
6	9848.0000	37.74	6.83	-42.10	48.67	51.14	74.00	22.86	Pass	H	PK
7	1198.8199	28.10	2.66	-42.89	56.23	44.10	74.00	29.90	Pass	V	PK
8	2127.3127	31.88	3.62	-43.18	51.79	44.11	74.00	29.89	Pass	V	PK
9	3187.0125	33.27	4.63	-43.10	50.67	45.47	74.00	28.53	Pass	V	PK
10	4924.0000	34.50	4.85	-42.80	48.81	45.36	74.00	28.64	Pass	V	PK
11	7382.2922	36.48	5.85	-42.12	52.13	52.34	74.00	21.66	Pass	V	PK
12	9848.0000	37.74	6.83	-42.10	48.65	51.12	74.00	22.88	Pass	V	PK

Mode:			802.11 n(HT20) (6.5Mbps)					Channel:		2412	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1200.2200	28.10	2.66	-42.89	58.71	46.58	74.00	27.42	Pass	H	PK
2	1439.8440	28.34	2.94	-42.85	57.35	45.78	74.00	28.22	Pass	H	PK
3	3852.0568	33.68	4.36	-43.03	50.81	45.82	74.00	28.18	Pass	H	PK
4	4824.0000	34.50	4.61	-42.80	47.12	43.43	74.00	30.57	Pass	H	PK
5	7236.0000	36.34	5.79	-42.16	46.20	46.17	74.00	27.83	Pass	H	PK
6	9648.0000	37.66	6.72	-42.10	49.48	51.76	74.00	22.24	Pass	H	PK
7	1196.6197	28.10	2.66	-42.89	61.72	49.59	74.00	24.41	Pass	V	PK
8	1899.2899	31.04	3.42	-42.96	51.14	42.64	74.00	31.36	Pass	V	PK
9	3200.0133	33.28	4.65	-43.10	52.04	46.87	74.00	27.13	Pass	V	PK
10	4824.0000	34.50	4.61	-42.80	47.57	43.88	74.00	30.12	Pass	V	PK
11	7236.0000	36.34	5.79	-42.16	47.92	47.89	74.00	26.11	Pass	V	PK
12	9648.0000	37.66	6.72	-42.10	48.93	51.21	74.00	22.79	Pass	V	PK

Mode:			802.11 n(HT20) (6.5Mbps)					Channel:		2437	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1200.4200	28.10	2.66	-42.89	59.21	47.08	74.00	26.92	Pass	H	PK
2	1732.0732	29.93	3.22	-42.68	53.10	43.57	74.00	30.43	Pass	H	PK
3	3736.0491	33.59	4.32	-43.05	50.39	45.25	74.00	28.75	Pass	H	PK
4	4874.0000	34.50	4.78	-42.80	47.47	43.95	74.00	30.05	Pass	H	PK
5	7311.0000	36.41	5.85	-42.14	46.49	46.61	74.00	27.39	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	48.82	51.19	74.00	22.81	Pass	H	PK
7	1196.2196	28.10	2.66	-42.90	58.65	46.51	74.00	27.49	Pass	V	PK
8	1947.4947	31.35	3.42	-43.07	51.26	42.96	74.00	31.04	Pass	V	PK
9	2923.3923	33.08	4.39	-43.10	51.33	45.70	74.00	28.30	Pass	V	PK
10	4874.0000	34.50	4.78	-42.80	48.08	44.56	74.00	29.44	Pass	V	PK
11	7312.2875	36.41	5.85	-42.14	49.77	49.89	74.00	24.11	Pass	V	PK
12	9748.0000	37.70	6.77	-42.10	48.87	51.24	74.00	22.76	Pass	V	PK

Mode:			802.11 n(HT20) (6.5Mbps)					Channel:		2462	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1200.4200	28.10	2.66	-42.89	59.07	46.94	74.00	27.06	Pass	H	PK
2	1440.4440	28.34	2.94	-42.85	55.92	44.35	74.00	29.65	Pass	H	PK
3	3315.0210	33.33	4.56	-43.10	50.58	45.37	74.00	28.63	Pass	H	PK
4	4924.0000	34.50	4.85	-42.80	47.84	44.39	74.00	29.61	Pass	H	PK
5	7386.0000	36.49	5.85	-42.13	48.46	48.67	74.00	25.33	Pass	H	PK
6	9848.0000	37.74	6.83	-42.10	49.01	51.48	74.00	22.52	Pass	H	PK
7	1196.2196	28.10	2.66	-42.90	55.86	43.72	74.00	30.28	Pass	V	PK
8	1922.8923	31.19	3.42	-43.01	50.15	41.75	74.00	32.25	Pass	V	PK
9	3201.0134	33.28	4.65	-43.10	50.81	45.64	74.00	28.36	Pass	V	PK
10	4924.0000	34.50	4.85	-42.80	47.43	43.98	74.00	30.02	Pass	V	PK
11	7386.0000	36.49	5.85	-42.13	50.36	50.57	74.00	23.43	Pass	V	PK
12	9848.0000	37.74	6.83	-42.10	48.98	51.45	74.00	22.55	Pass	V	PK

Mode:			802.11 n(HT40) (13.5Mbps)					Channel:		2422	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1198.8199	28.10	2.66	-42.89	59.16	47.03	74.00	26.97	Pass	H	PK
2	1440.0440	28.34	2.94	-42.85	58.05	46.48	74.00	27.52	Pass	H	PK
3	3064.0043	33.23	4.80	-43.11	53.33	48.25	74.00	25.75	Pass	H	PK
4	4844.0000	34.50	4.66	-42.80	47.09	43.45	74.00	30.55	Pass	H	PK
5	7266.0000	36.37	5.80	-42.15	46.84	46.86	74.00	27.14	Pass	H	PK
6	9688.0000	37.68	6.62	-42.10	49.16	51.36	74.00	22.64	Pass	H	PK
7	1198.6199	28.10	2.66	-42.89	56.71	44.58	74.00	29.42	Pass	V	PK
8	2128.3128	31.88	3.62	-43.18	50.97	43.29	74.00	30.71	Pass	V	PK
9	3192.0128	33.28	4.64	-43.11	51.03	45.84	74.00	28.16	Pass	V	PK
10	4844.0000	34.50	4.66	-42.80	47.03	43.39	74.00	30.61	Pass	V	PK
11	7266.0000	36.37	5.80	-42.15	46.76	46.78	74.00	27.22	Pass	V	PK
12	9688.0000	37.68	6.62	-42.10	49.37	51.57	74.00	22.43	Pass	V	PK

Mode:			802.11 n(HT40) (13.5Mbps)					Channel:		2437	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1199.2199	28.10	2.66	-42.89	58.17	46.04	74.00	27.96	Pass	H	PK
2	1440.0440	28.34	2.94	-42.85	58.15	46.58	74.00	27.42	Pass	H	PK
3	3456.0304	33.38	4.44	-43.10	51.08	45.80	74.00	28.20	Pass	H	PK
4	4874.0000	34.50	4.78	-42.80	46.60	43.08	74.00	30.92	Pass	H	PK
5	7311.0000	36.41	5.85	-42.14	47.00	47.12	74.00	26.88	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	49.18	51.55	74.00	22.45	Pass	H	PK
7	1196.6197	28.10	2.66	-42.89	58.11	45.98	74.00	28.02	Pass	V	PK
8	2132.7133	31.89	3.63	-43.18	52.51	44.85	74.00	29.15	Pass	V	PK
9	3165.0110	33.27	4.59	-43.10	52.03	46.79	74.00	27.21	Pass	V	PK
10	4874.0000	34.50	4.78	-42.80	47.46	43.94	74.00	30.06	Pass	V	PK
11	7311.0000	36.41	5.85	-42.14	46.52	46.64	74.00	27.36	Pass	V	PK
12	9748.0000	37.70	6.77	-42.10	49.45	51.82	74.00	22.18	Pass	V	PK

Mode:			802.11 n(HT40) (13.5Mbps)					Channel:		2452	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1201.0201	28.10	2.66	-42.89	59.56	47.43	74.00	26.57	Pass	H	PK
2	1439.8440	28.34	2.94	-42.85	58.26	46.69	74.00	27.31	Pass	H	PK
3	3184.0123	33.27	4.62	-43.09	50.76	45.56	74.00	28.44	Pass	H	PK
4	4904.0000	34.50	4.88	-42.80	47.78	44.36	74.00	29.64	Pass	H	PK
5	7356.0000	36.46	5.85	-42.13	47.33	47.51	74.00	26.49	Pass	H	PK
6	9808.0000	37.72	6.59	-42.10	49.91	52.12	74.00	21.88	Pass	H	PK
7	1195.8196	28.10	2.66	-42.90	60.79	48.65	74.00	25.35	Pass	V	PK
8	1781.0781	30.26	3.29	-42.71	50.64	41.48	74.00	32.52	Pass	V	PK
9	3174.0116	33.27	4.61	-43.10	51.84	46.62	74.00	27.38	Pass	V	PK
10	4904.0000	34.50	4.88	-42.80	48.78	45.36	74.00	28.64	Pass	V	PK
11	7356.0000	36.46	5.85	-42.13	47.44	47.62	74.00	26.38	Pass	V	PK
12	9808.0000	37.72	6.59	-42.10	50.13	52.34	74.00	21.66	Pass	V	PK

Note:

1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate, find the 1Mbps of rate is the worst case of 802.11b; 6Mbpsof rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40),and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

3) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.