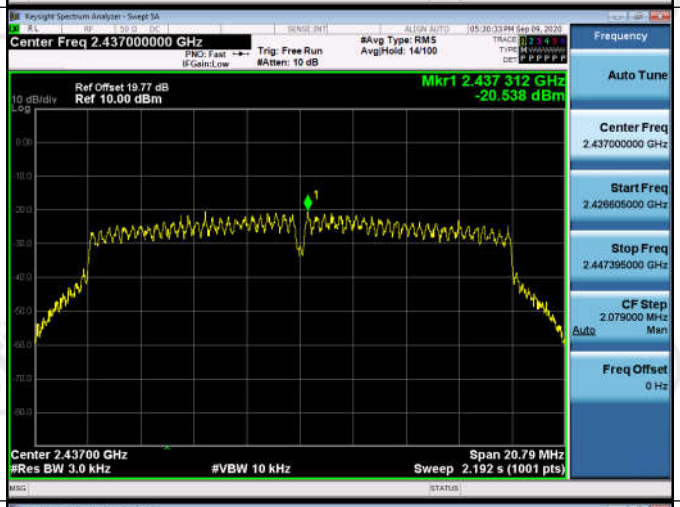
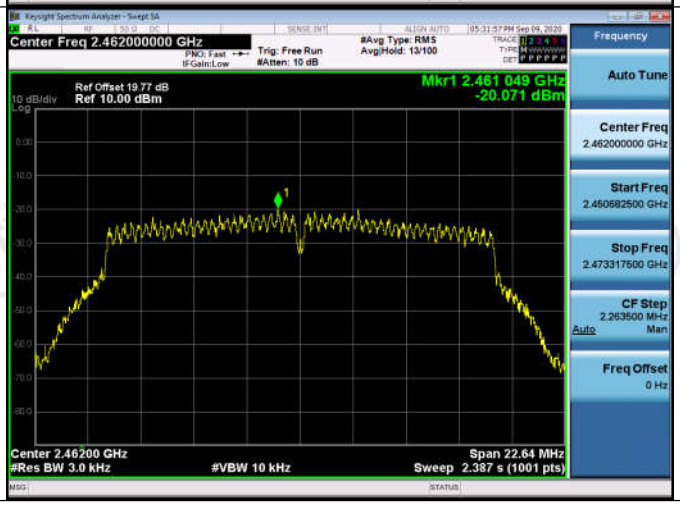
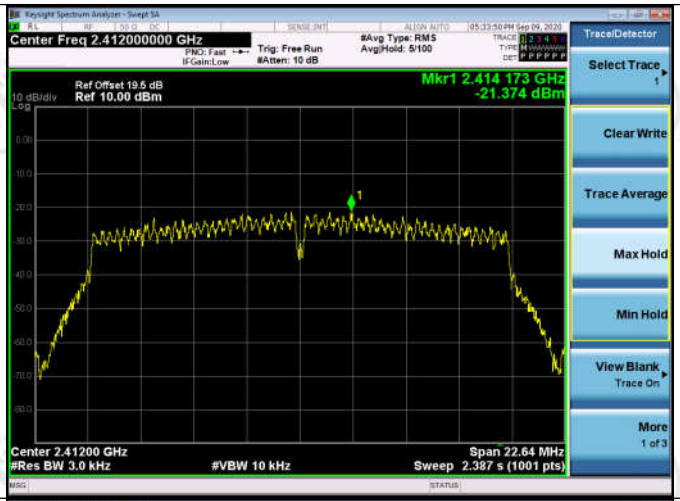
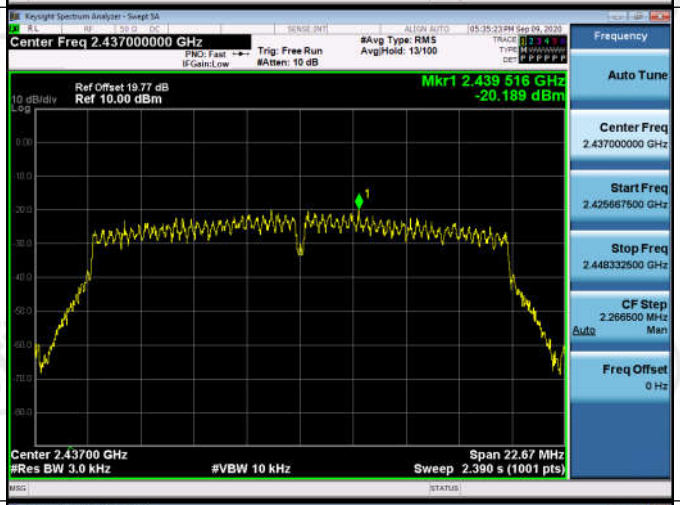
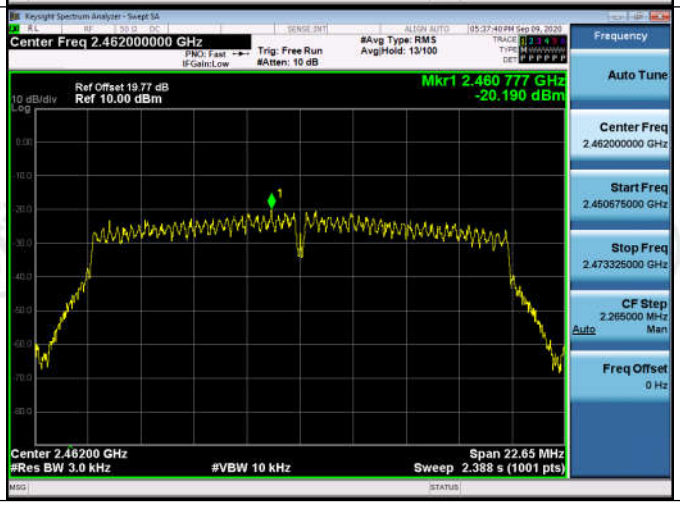
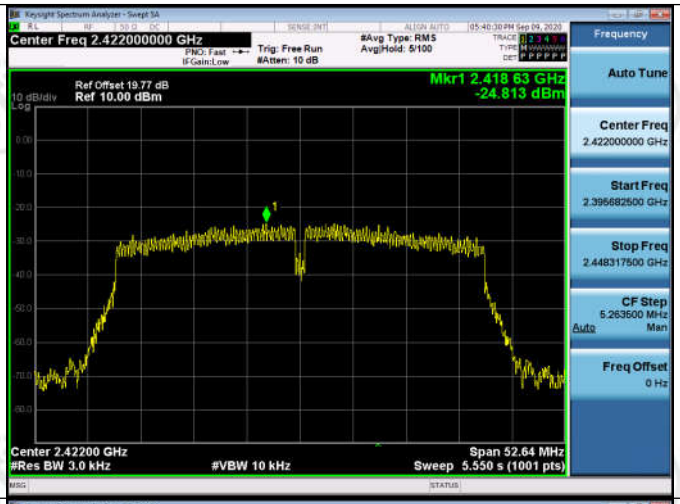
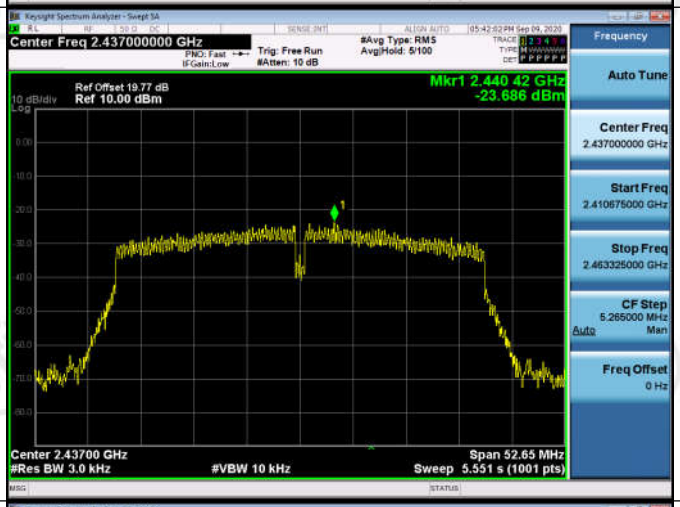
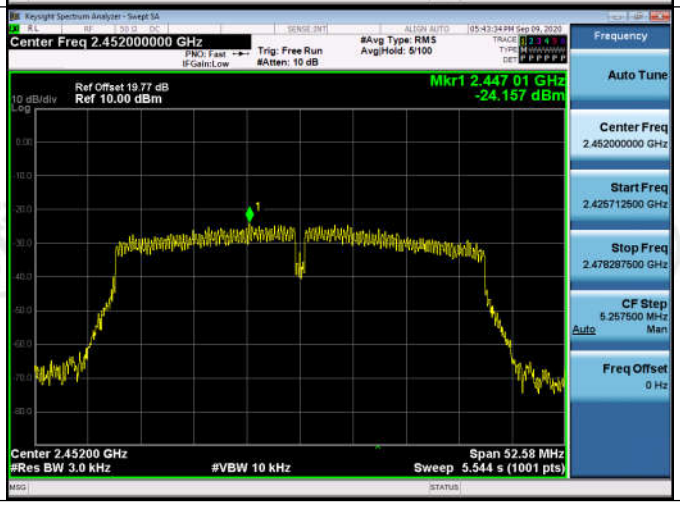
Test Graph

Graphs		
11B/LCH		
11B/MCH		
11B/HCH		

11G/LCH			
11G/MCH			
11G/HCH			

11N20SISO/LCH			
11N20SISO/MCH			
11N20SISO/HCH			

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

Appendix F): Antenna Requirement

15.203 requirement:

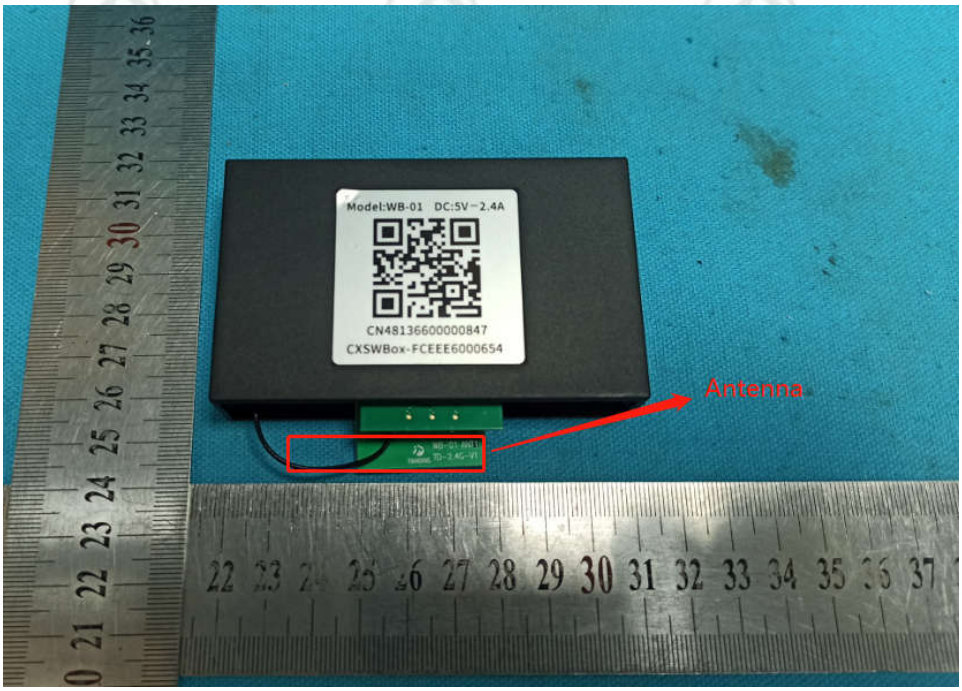
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.



Appendix G): AC Power Line Conducted Emission

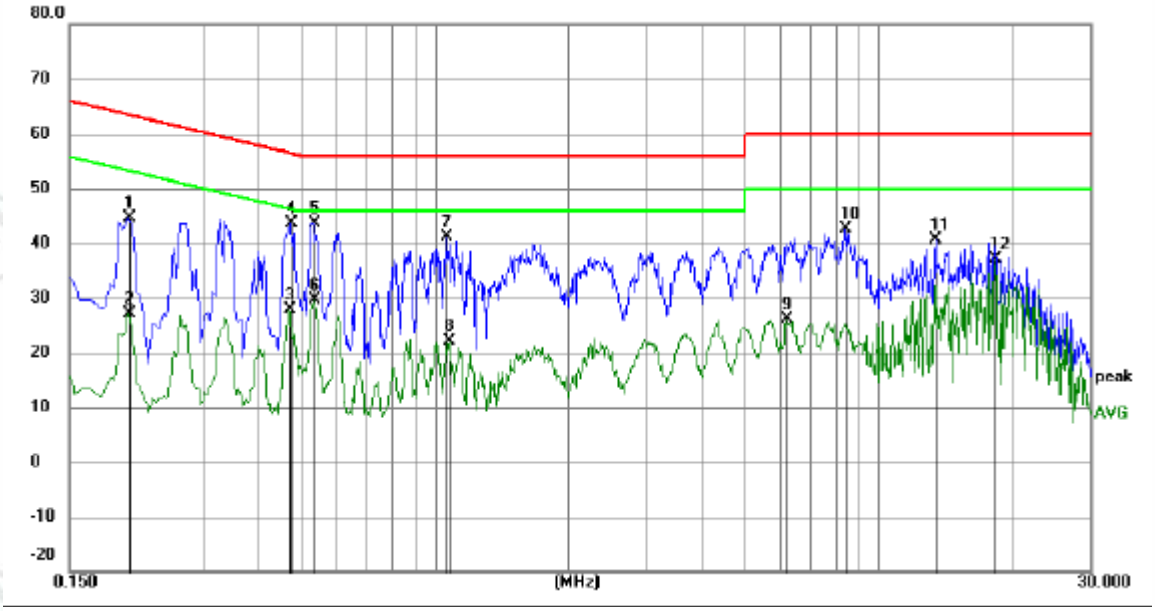
<table>
<tr><td>Test Procedure:</td><td>Test frequency range :150KHz-30MHz
1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. 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.</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr>
<tr><th>Quasi-peak</th><th>Average</th></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.

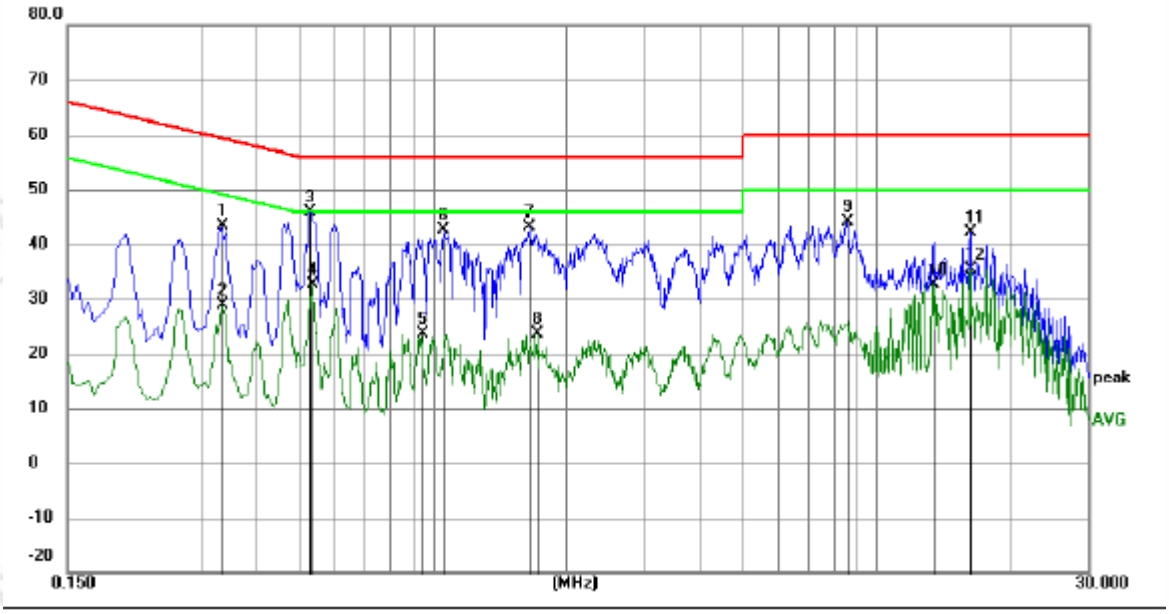
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2040	34.85	9.88	44.73	63.45	-18.72	QP	
2		0.2040	17.17	9.88	27.05	53.45	-26.40	AVG	
3		0.4695	17.98	9.96	27.94	46.52	-18.58	AVG	
4		0.4740	33.69	9.96	43.65	56.44	-12.79	QP	
5	*	0.5325	33.66	9.99	43.65	56.00	-12.35	QP	
6		0.5325	19.66	9.99	29.65	46.00	-16.35	AVG	
7		1.0635	31.27	9.83	41.10	56.00	-14.90	QP	
8		1.0770	12.21	9.83	22.04	46.00	-23.96	AVG	
9		6.2070	16.26	9.79	26.05	50.00	-23.95	AVG	
10		8.3940	32.96	9.79	42.75	60.00	-17.25	QP	
11		13.4790	30.72	9.88	40.60	60.00	-19.40	QP	
12		18.2445	27.17	9.96	37.13	50.00	-12.87	AVG	

Neutral line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3345	33.41	10.04	43.45	59.34	-15.89	QP	
2		0.3345	18.78	10.04	28.82	49.34	-20.52	AVG	
3	*	0.5280	35.94	9.98	45.92	56.00	-10.08	QP	
4		0.5370	22.59	9.99	32.58	46.00	-13.42	AVG	
5		0.9465	13.91	9.84	23.75	46.00	-22.25	AVG	
6		1.0545	32.82	9.83	42.65	56.00	-13.35	QP	
7		1.6485	33.28	9.80	43.08	56.00	-12.92	QP	
8		1.7205	13.86	9.80	23.66	46.00	-22.34	AVG	
9		8.5470	34.27	9.78	44.05	60.00	-15.95	QP	
10		13.3575	22.82	9.88	32.70	50.00	-17.30	AVG	
11		16.2285	32.12	9.94	42.06	60.00	-17.94	QP	
12		16.2285	25.55	9.94	35.49	50.00	-14.51	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 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 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. 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.

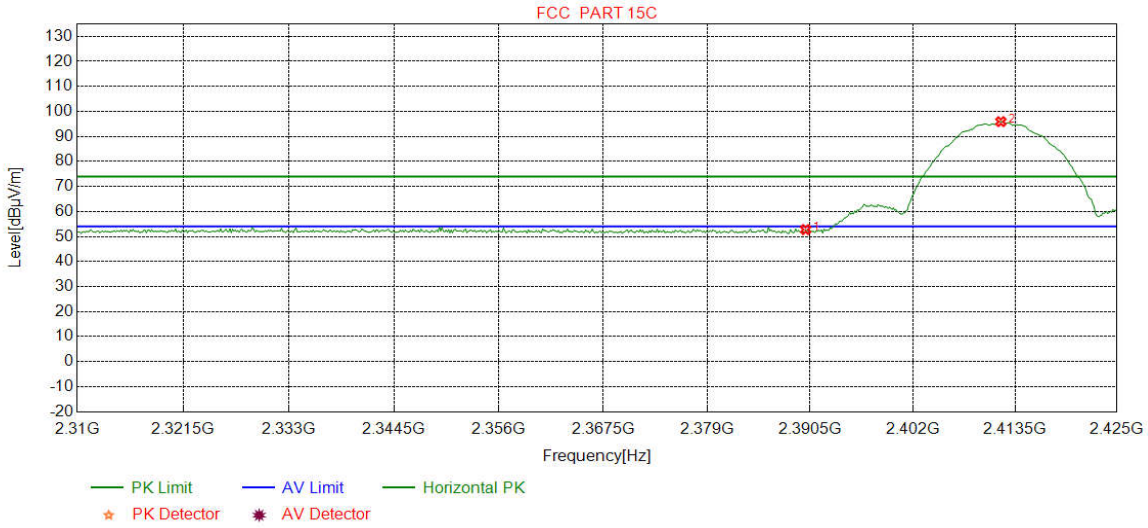
Limit:

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		

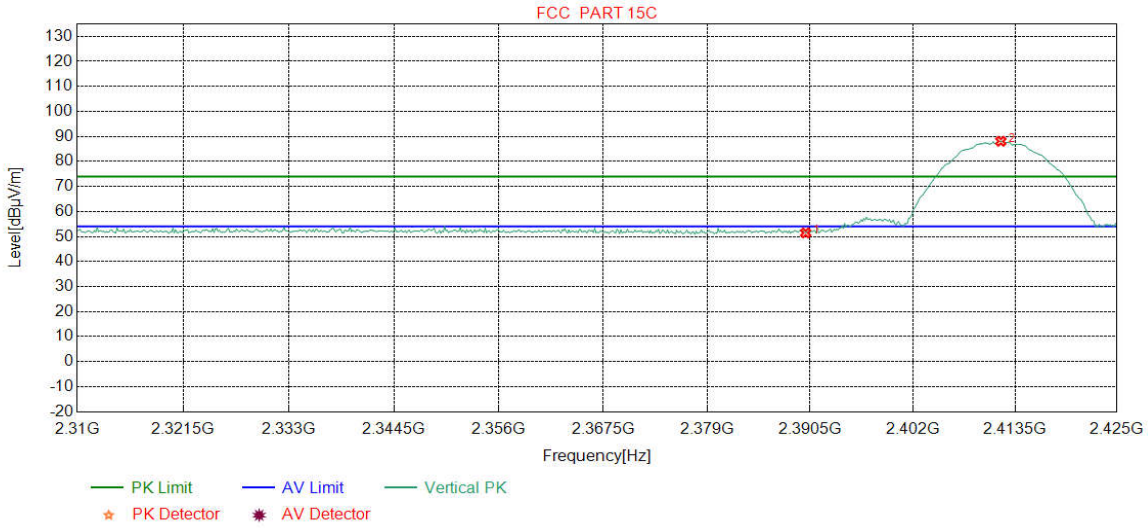
Test Graph



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	50.27	52.77	74.00	21.23	Pass	Horizontal
2	2411.9024	32.28	13.35	-43.12	93.40	95.91	74.00	-21.91	Pass	Horizontal

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

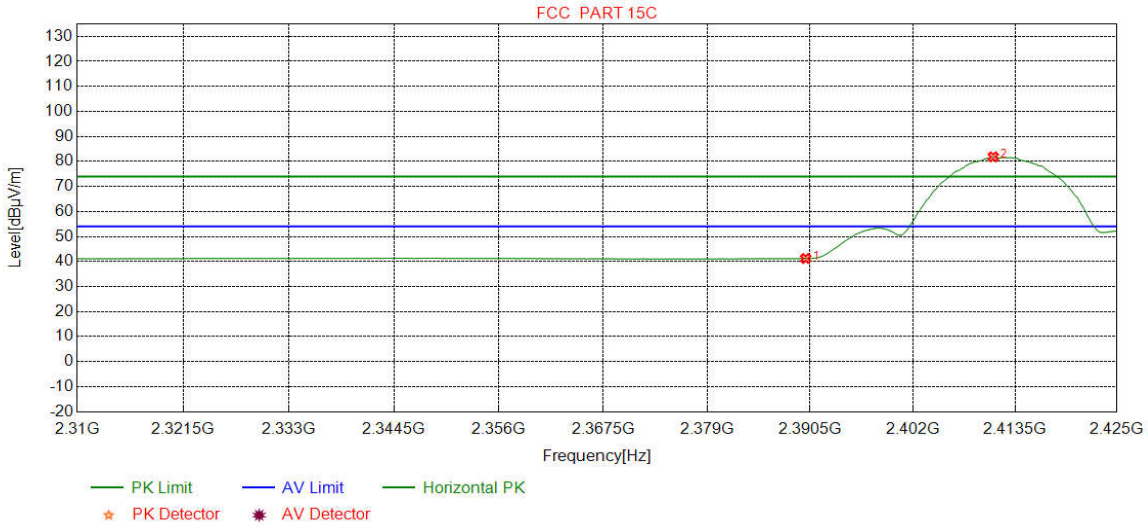
Test Graph



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	48.95	51.45	74.00	22.55	Pass	Vertical
2	2411.9024	32.28	13.35	-43.12	85.55	88.06	74.00	-14.06	Pass	Vertical

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

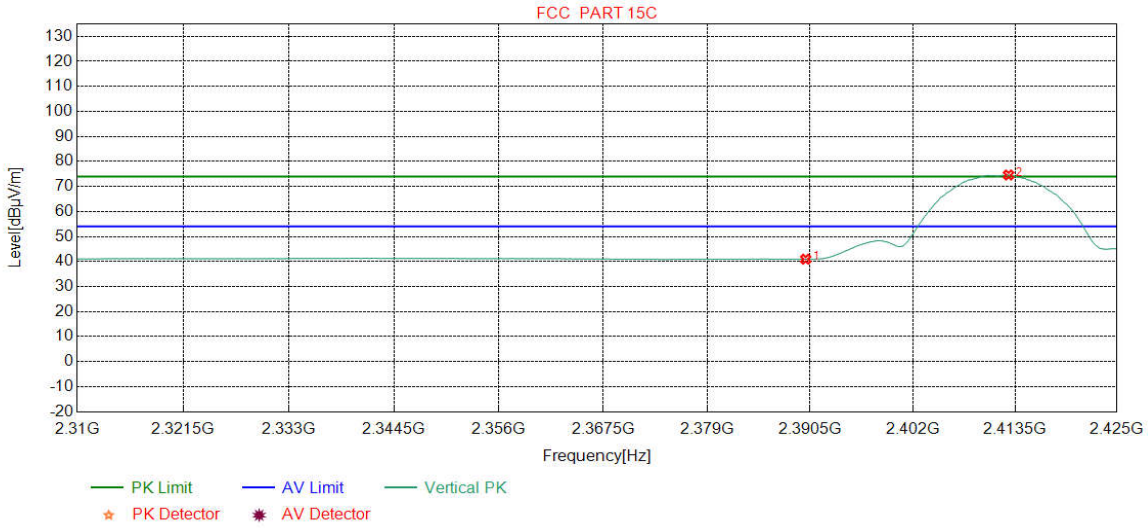
Test Graph



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	38.69	41.19	54.00	12.81	Pass	Horizontal
2	2411.0388	32.28	13.35	-43.12	79.33	81.84	54.00	-27.84	Pass	Horizontal

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

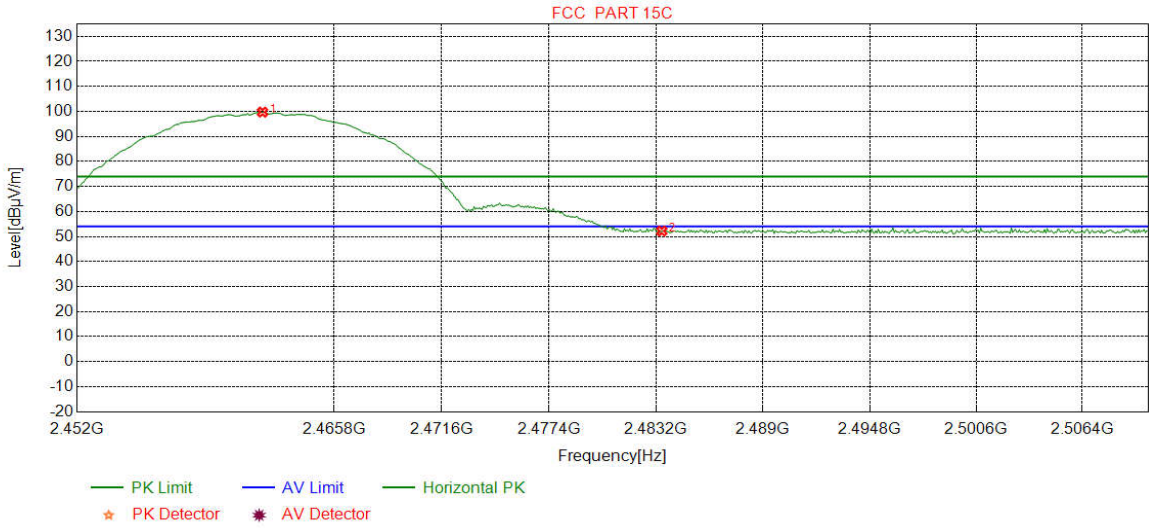
Test Graph



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	38.44	40.94	54.00	13.06	Pass	Vertical
2	2412.7660	32.28	13.36	-43.12	72.07	74.59	54.00	-20.59	Pass	Vertical

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

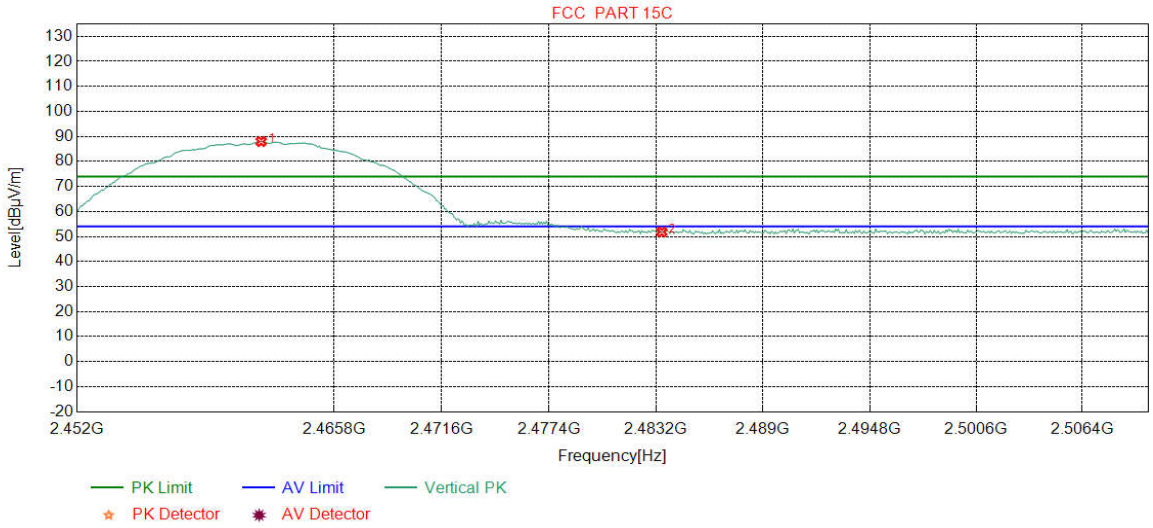
Test Graph



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	2461.9449	32.35	13.48	-43.12	97.00	99.71	74.00	-25.71	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.53	52.18	74.00	21.82	Pass	Horizontal

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

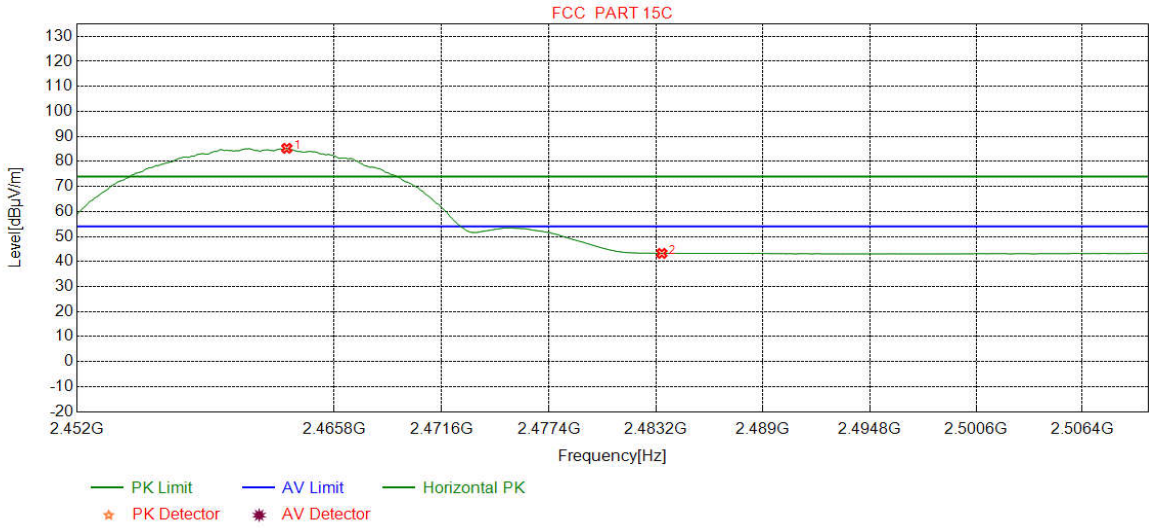
Test Graph



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	2461.8723	32.35	13.48	-43.12	85.24	87.95	74.00	-13.95	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.14	51.79	74.00	22.21	Pass	Vertical

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

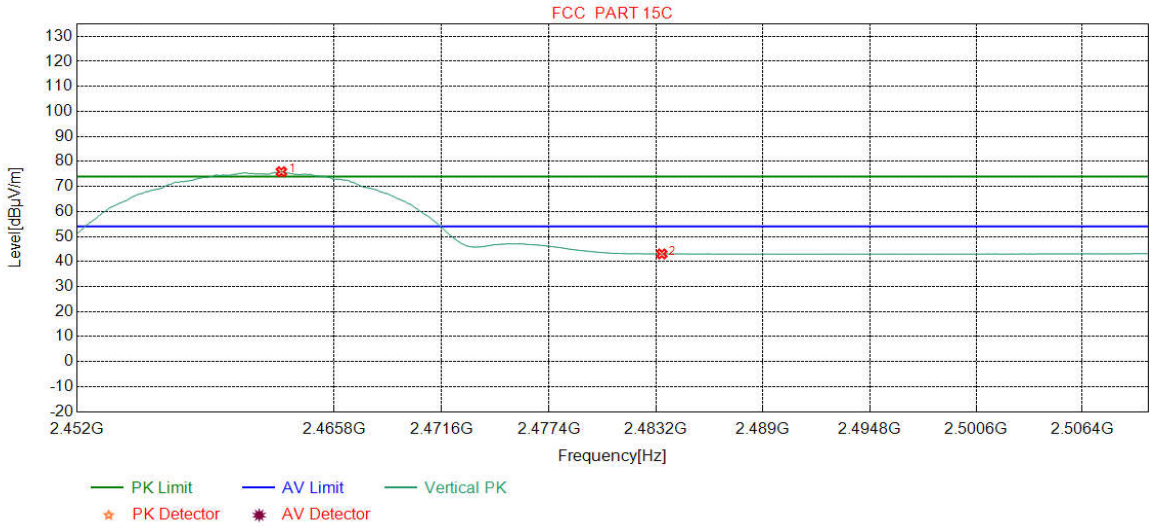
Test Graph



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	2463.2516	32.35	13.47	-43.11	82.54	85.25	54.00	-31.25	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.60	43.25	54.00	10.75	Pass	Horizontal

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

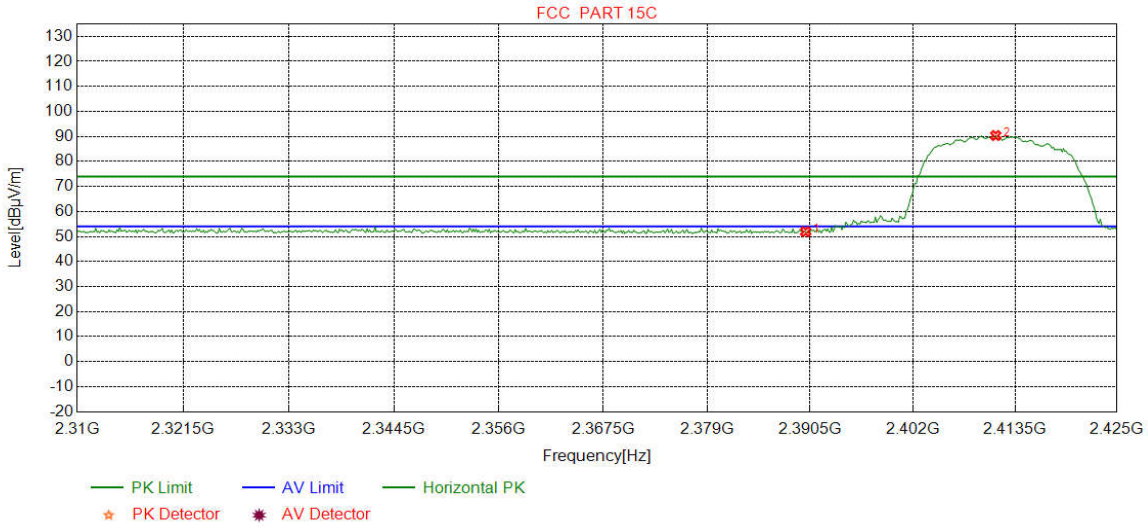
Test Graph



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	2462.9612	32.35	13.47	-43.11	73.17	75.88	54.00	-21.88	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.39	43.04	54.00	10.96	Pass	Vertical

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

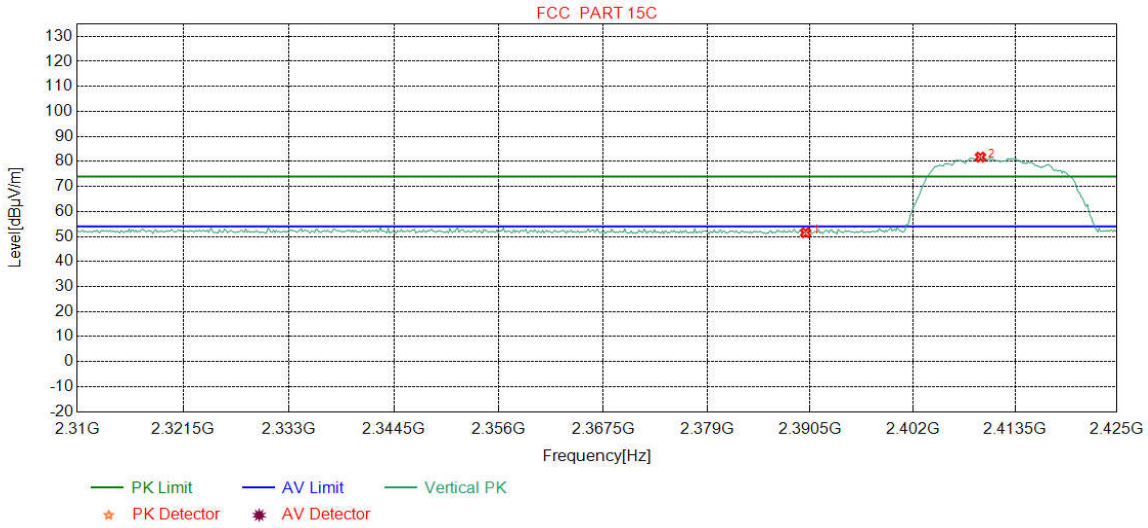
Test Graph



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	49.42	51.92	74.00	22.08	Pass	Horizontal
2	2411.3267	32.28	13.35	-43.12	87.85	90.36	74.00	-16.36	Pass	Horizontal

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

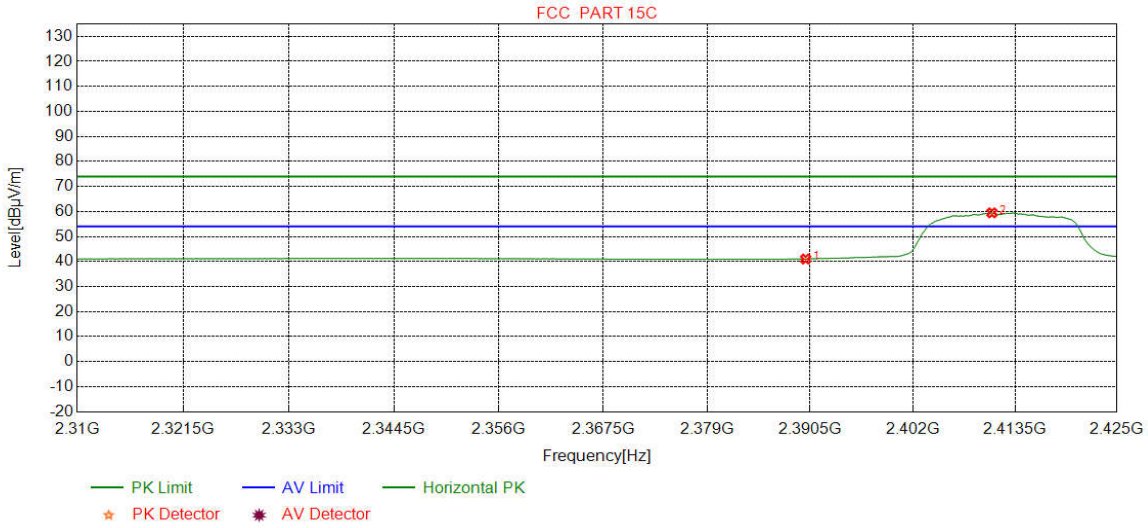
Test Graph



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	49.02	51.52	74.00	22.48	Pass	Vertical
2	2409.5995	32.27	13.34	-43.11	79.24	81.74	74.00	-7.74	Pass	Vertical

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

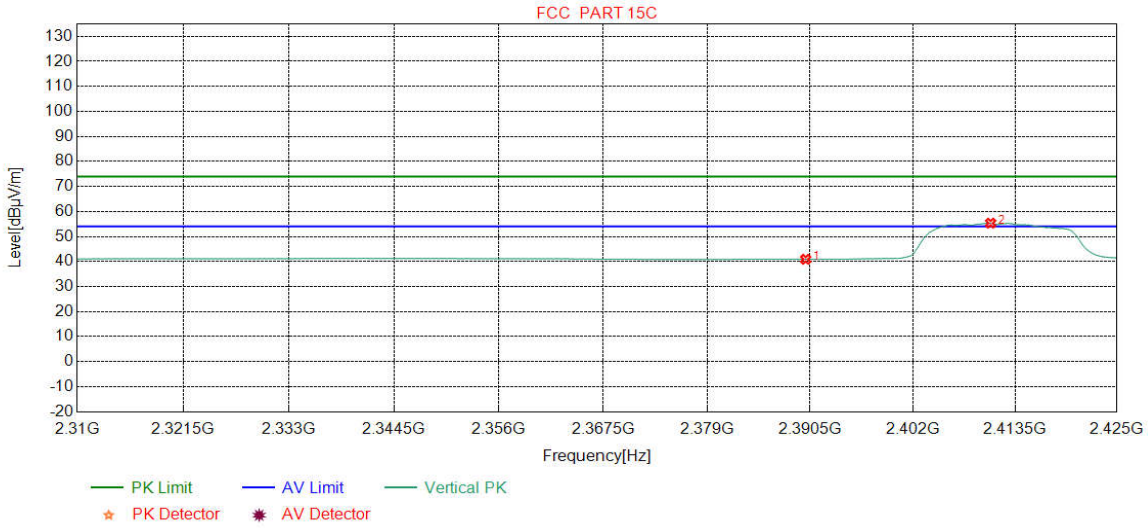
Test Graph



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	38.50	41.00	54.00	13.00	Pass	Horizontal
2	2410.8949	32.28	13.35	-43.12	56.94	59.45	54.00	-5.45	Pass	Horizontal

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

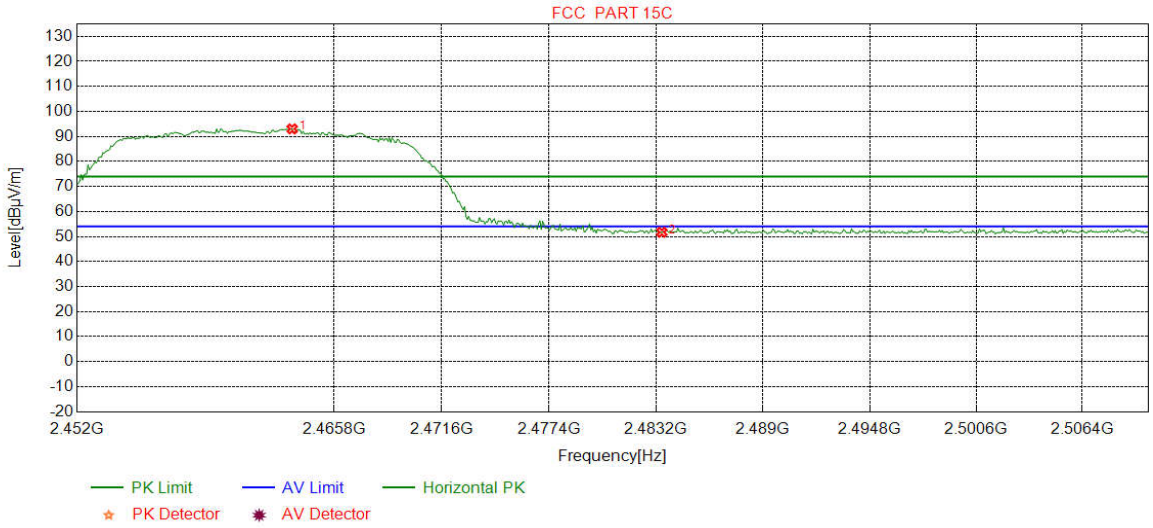
Test Graph



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	38.39	40.89	54.00	13.11	Pass	Vertical
2	2410.7509	32.28	13.35	-43.12	52.83	55.34	54.00	-1.34	Pass	Vertical

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

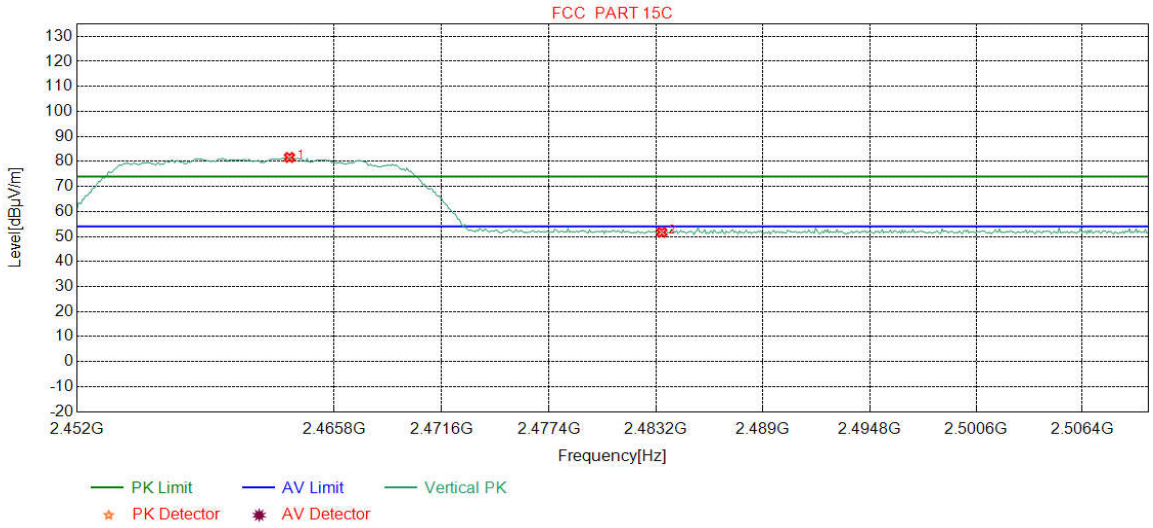
Test Graph



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	2463.5419	32.35	13.47	-43.11	90.30	93.01	74.00	-19.01	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.05	51.70	74.00	22.30	Pass	Horizontal

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

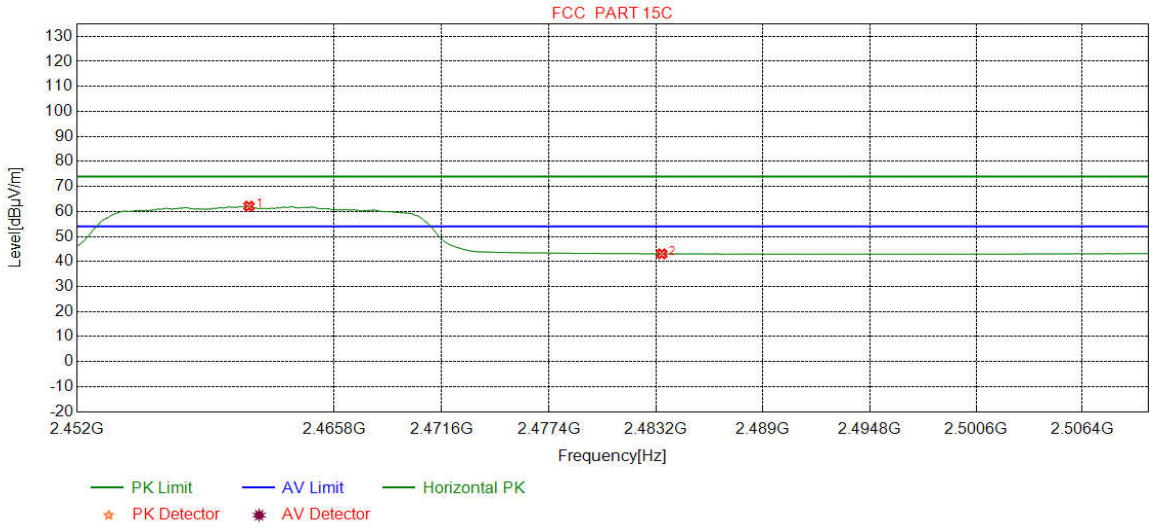
Test Graph



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	2463.3967	32.35	13.47	-43.11	78.90	81.61	74.00	-7.61	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.03	51.68	74.00	22.32	Pass	Vertical

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

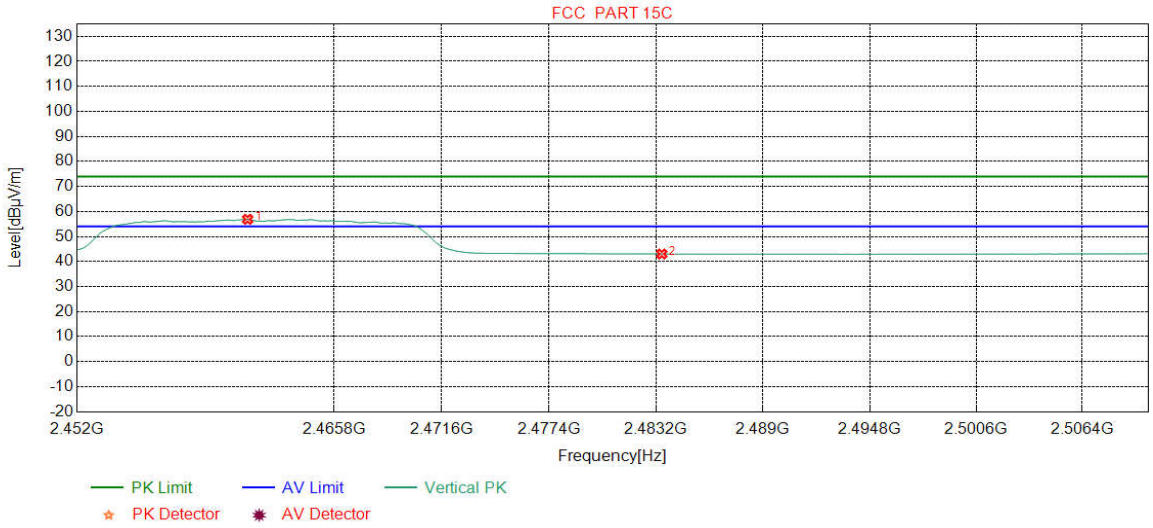
Test Graph



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	2461.2190	32.35	13.48	-43.11	59.40	62.12	54.00	-8.12	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.42	43.07	54.00	10.93	Pass	Horizontal

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

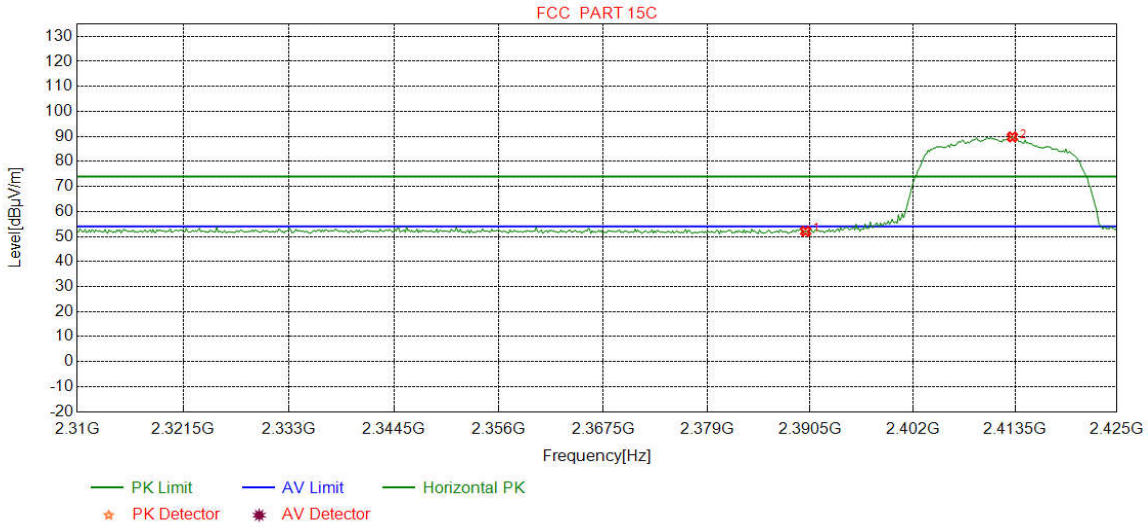
Test Graph



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	2461.1464	32.35	13.48	-43.11	54.15	56.87	54.00	-2.87	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.36	43.01	54.00	10.99	Pass	Vertical

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

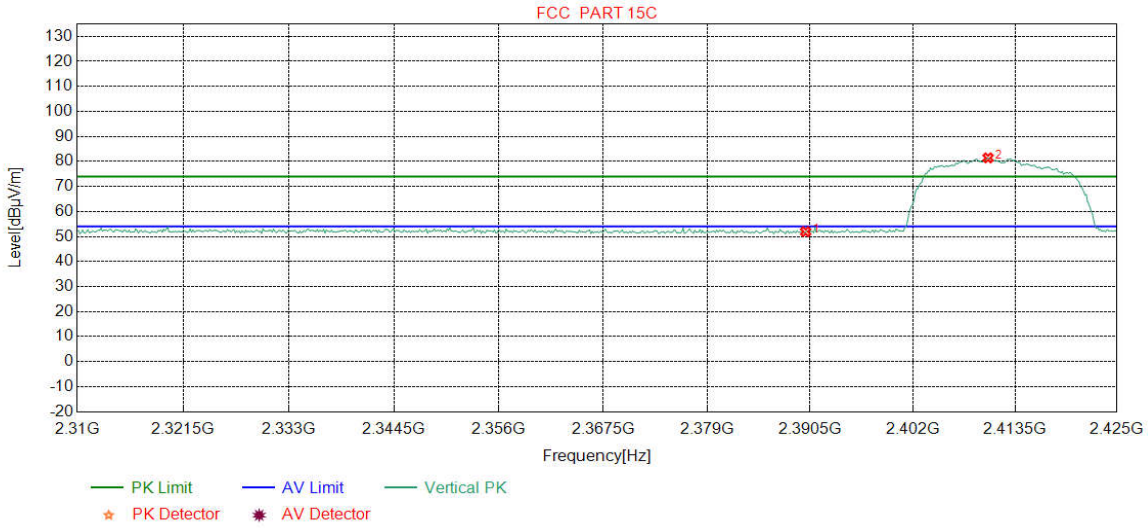
Test Graph



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	2390.0000	32.25	13.37	-43.12	49.60	52.10	74.00	21.90	Pass	Horizontal
2	2413.1977	32.28	13.36	-43.12	87.28	89.80	74.00	-15.80	Pass	Horizontal

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

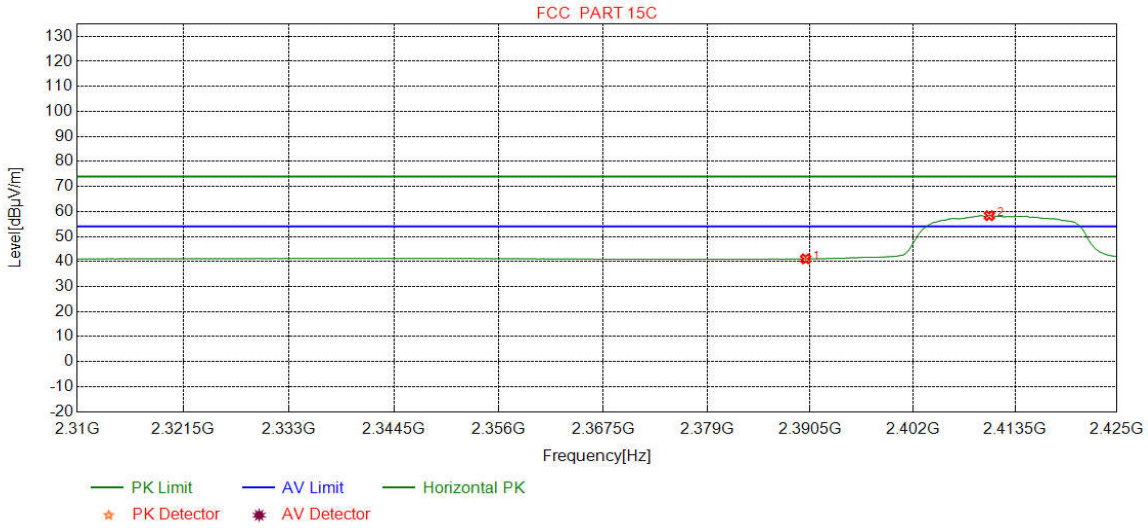
Test Graph



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	49.44	51.94	74.00	22.06	Pass	Vertical
2	2410.4631	32.27	13.35	-43.12	78.92	81.42	74.00	-7.42	Pass	Vertical

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

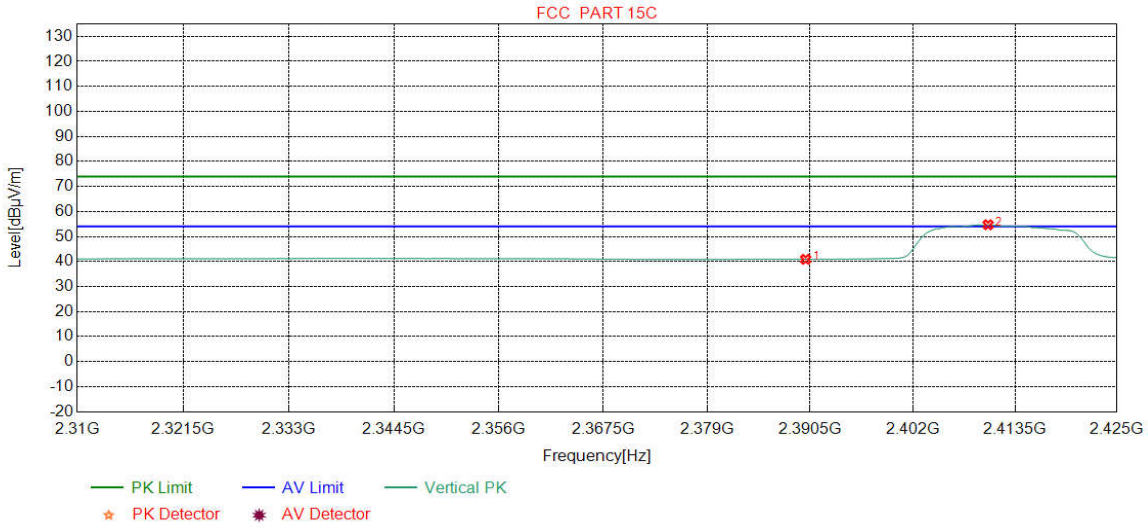
Test Graph



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	38.56	41.06	54.00	12.94	Pass	Horizontal
2	2410.6070	32.27	13.35	-43.11	55.84	58.35	54.00	-4.35	Pass	Horizontal

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

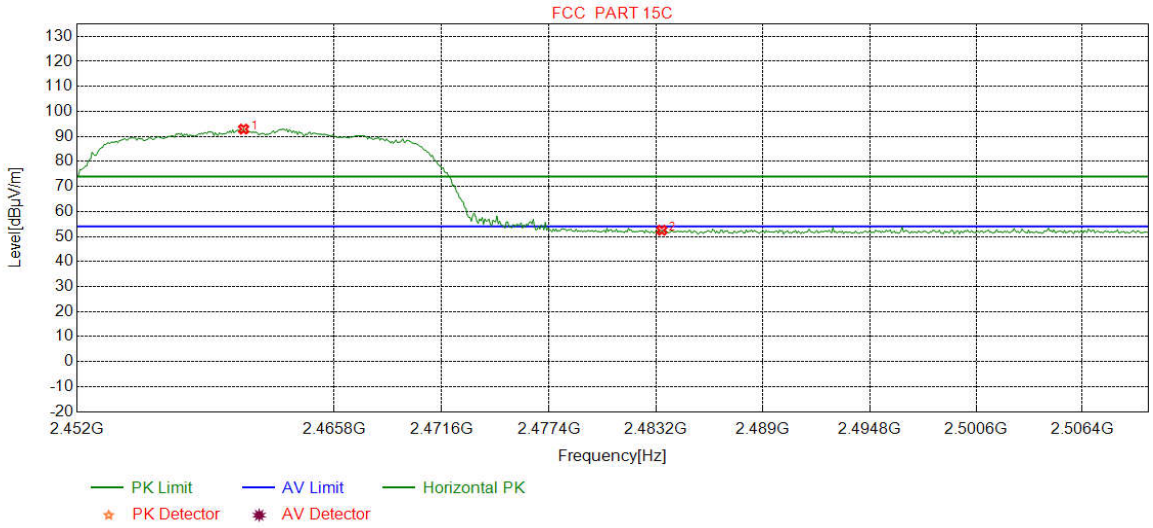
Test Graph



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	38.38	40.88	54.00	13.12	Pass	Vertical
2	2410.4631	32.27	13.35	-43.12	52.20	54.70	54.00	-0.70	Pass	Vertical

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

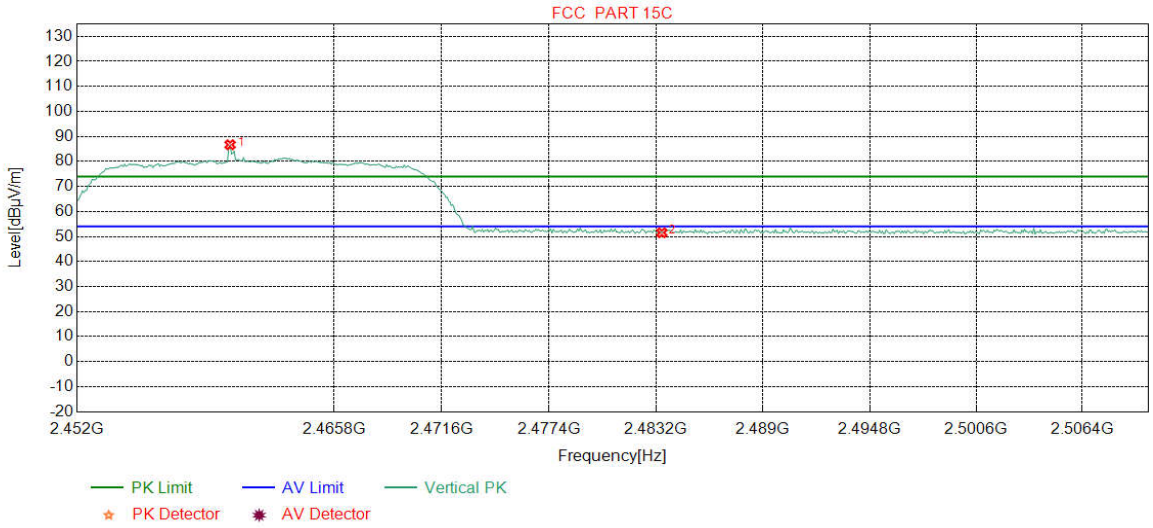
Test Graph



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	2460.9287	32.35	13.48	-43.11	90.20	92.92	74.00	-18.92	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.86	52.51	74.00	21.49	Pass	Horizontal

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

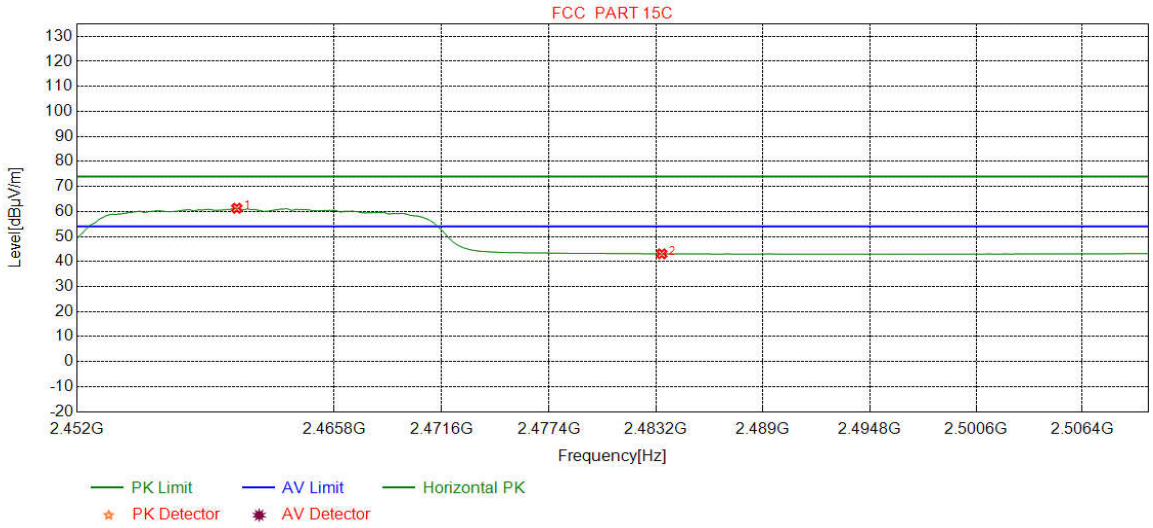
Test Graph



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	2460.2028	32.34	13.48	-43.10	83.96	86.68	74.00	-12.68	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	48.85	51.50	74.00	22.50	Pass	Vertical

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

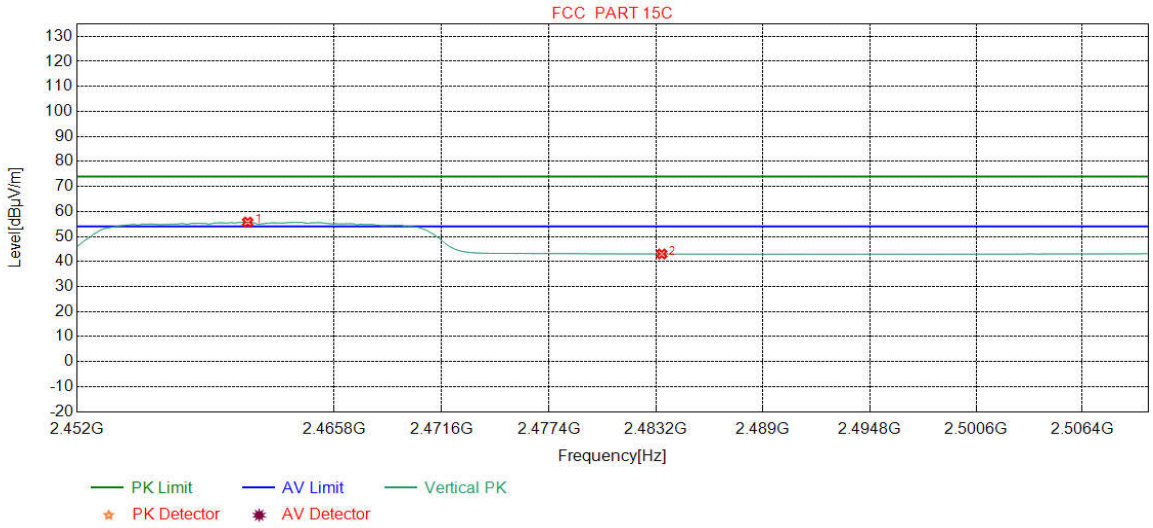
Test Graph



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	2460.5657	32.34	13.48	-43.10	58.58	61.30	54.00	-7.30	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.43	43.08	54.00	10.92	Pass	Horizontal

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

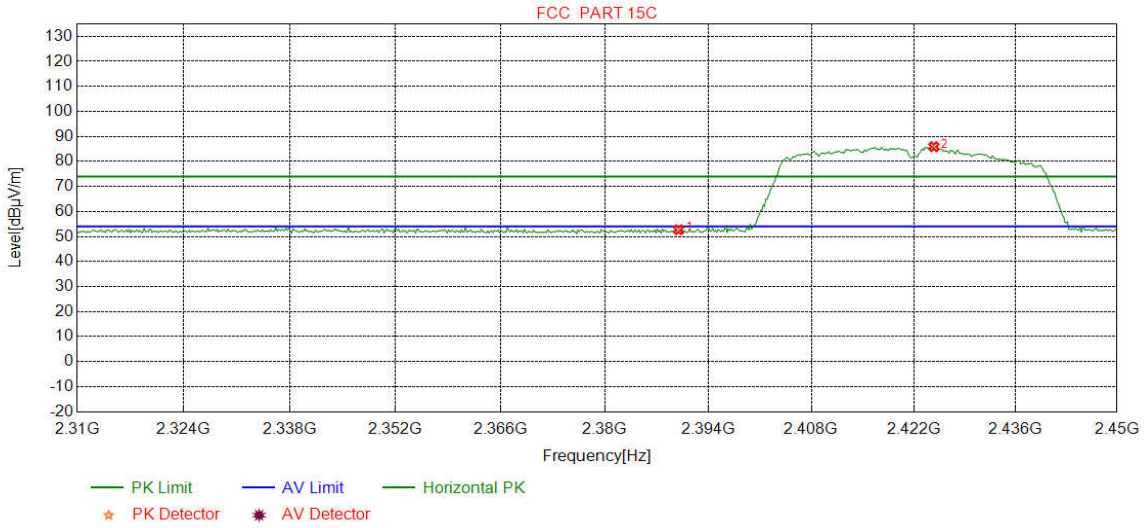
Test Graph



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	2461.1464	32.35	13.48	-43.11	53.01	55.73	54.00	-1.73	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.37	43.02	54.00	10.98	Pass	Vertical

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

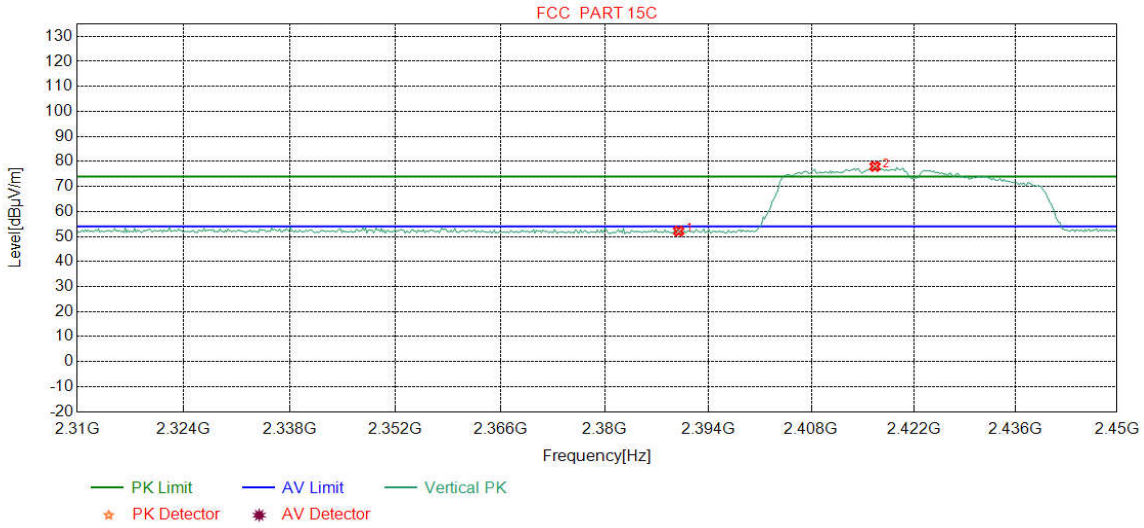
Test Graph



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	50.19	52.69	74.00	21.31	Pass	Horizontal
2	2424.7685	32.29	13.41	-43.11	83.30	85.89	74.00	-11.89	Pass	Horizontal

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

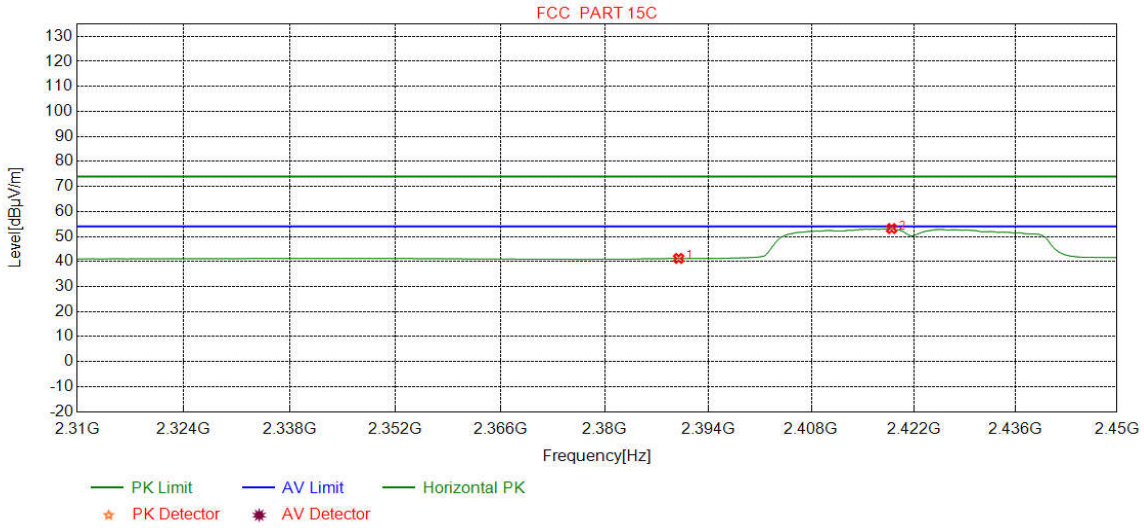
Test Graph



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	49.66	52.16	74.00	21.84	Pass	Vertical
2	2416.7084	32.28	13.38	-43.12	75.46	78.00	74.00	-4.00	Pass	Vertical

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

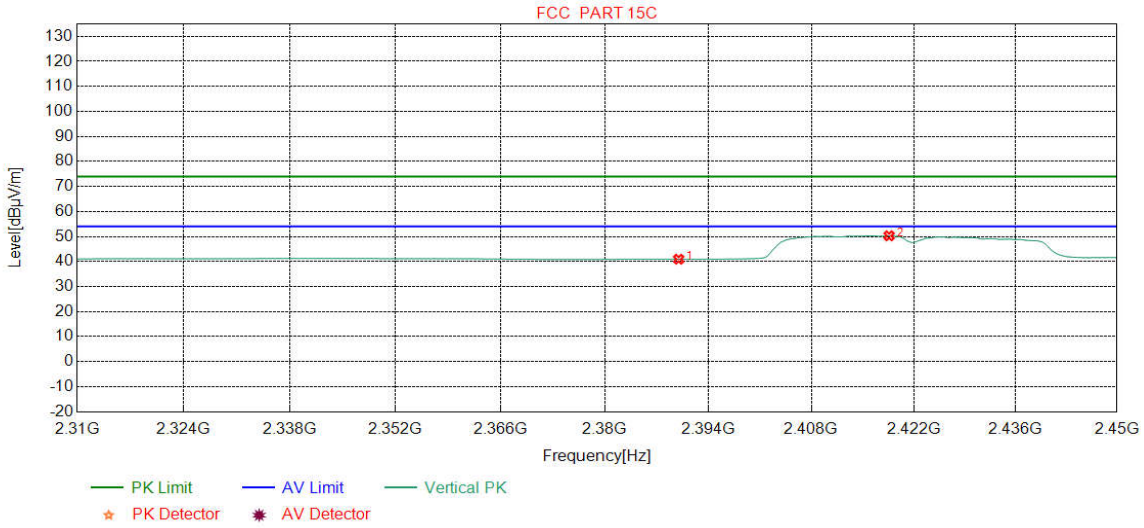
Test Graph



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	38.73	41.23	54.00	12.77	Pass	Horizontal
2	2418.9862	32.29	13.39	-43.12	50.61	53.17	54.00	0.83	Pass	Horizontal

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

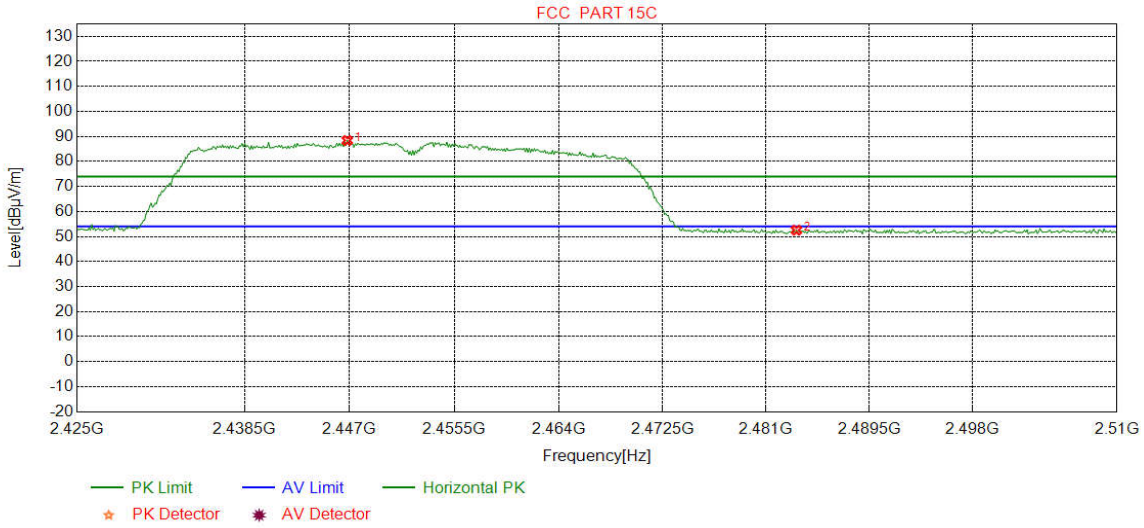
Test Graph



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	38.43	40.93	54.00	13.07	Pass	Vertical
2	2418.6358	32.29	13.39	-43.12	47.73	50.29	54.00	3.71	Pass	Vertical

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

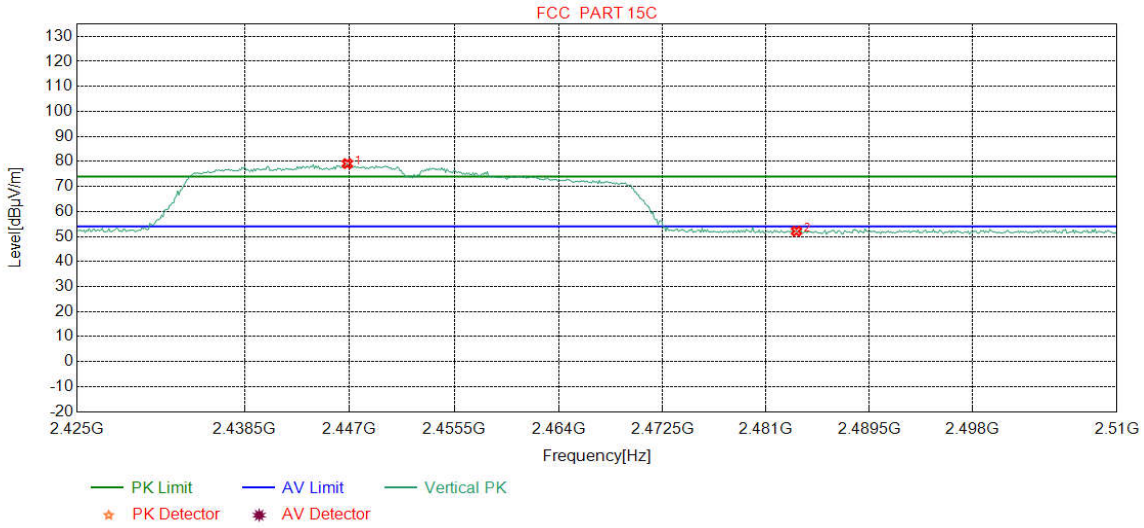
Test Graph



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	2446.8085	32.33	13.52	-43.12	85.65	88.38	74.00	-14.38	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.89	52.54	74.00	21.46	Pass	Horizontal

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

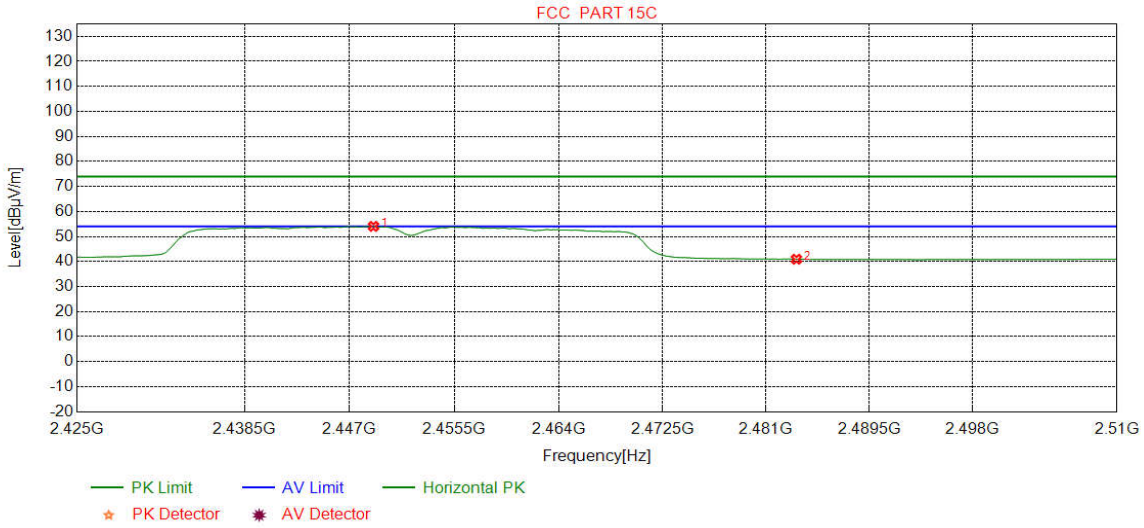
Test Graph



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	2446.8085	32.33	13.52	-43.12	76.39	79.12	74.00	-5.12	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.48	52.13	74.00	21.87	Pass	Vertical

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

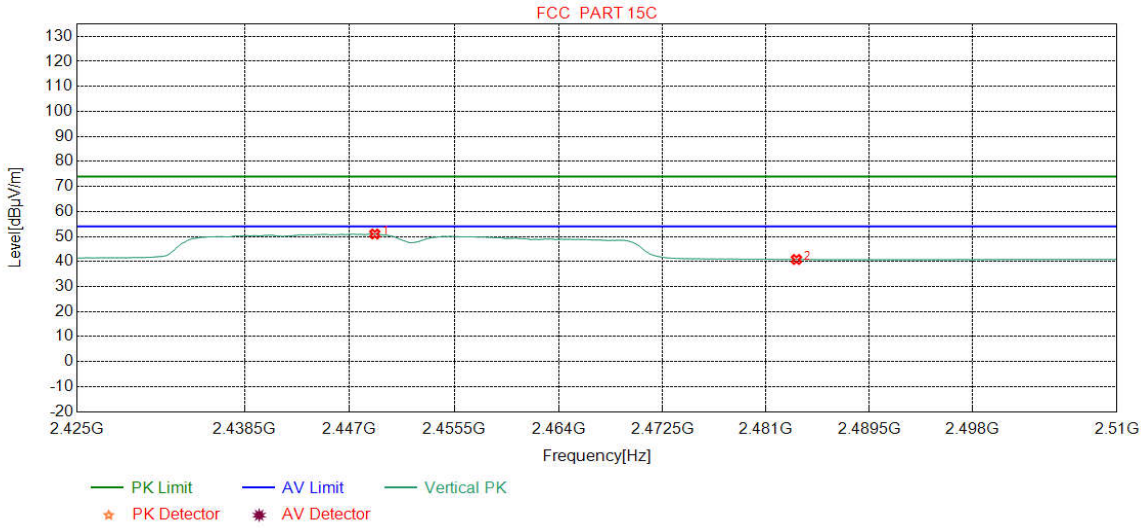
Test Graph



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	2448.9362	32.33	13.53	-43.12	51.31	54.05	54.00	-0.05	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	38.28	40.93	54.00	13.07	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	2449.0426	32.33	13.53	-43.12	48.27	51.01	54.00	2.99	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	38.17	40.82	54.00	13.18	Pass	Vertical

Note:

1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate, find the 11Mbps 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

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11b, Channel 2437MHz was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Mode:			802.11 b 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	36.5967	11.21	0.67	-31.38	52.14	32.64	40.00	7.36	Pass	H	PK
2	104.7945	10.95	1.20	-31.98	51.46	31.63	43.50	11.87	Pass	H	PK
3	167.9478	8.34	1.52	-31.97	48.58	26.47	43.50	17.03	Pass	H	PK
4	250.0180	12.20	1.88	-31.90	48.37	30.55	46.00	15.45	Pass	H	PK
5	498.7509	16.98	2.67	-31.90	42.81	30.56	46.00	15.44	Pass	H	PK
6	750.0060	20.35	3.29	-32.04	34.28	25.88	46.00	20.12	Pass	H	PK
7	36.5967	11.21	0.67	-31.38	52.95	33.45	40.00	6.55	Pass	V	PK
8	150.0010	7.55	1.45	-32.01	47.84	24.83	43.50	18.67	Pass	V	PK
9	250.0180	12.20	1.88	-31.90	46.28	28.46	46.00	17.54	Pass	V	PK
10	439.9630	16.04	2.48	-31.88	38.13	24.77	46.00	21.23	Pass	V	PK
11	750.0060	20.35	3.29	-32.04	36.05	27.65	46.00	18.35	Pass	V	PK
12	974.9715	22.55	3.75	-30.95	34.85	30.20	54.00	23.80	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	1592.4592	29.01	3.06	-42.91	53.42	42.58	74.00	31.42	Pass	H	PK
2	1997.4998	31.68	3.47	-43.19	52.68	44.64	74.00	29.36	Pass	H	PK
3	3911.0607	33.73	4.34	-43.02	50.05	45.10	74.00	28.90	Pass	H	PK
4	4824.0000	34.50	4.61	-42.80	49.34	45.65	74.00	28.35	Pass	H	PK
5	7235.2824	36.34	5.79	-42.16	54.43	54.40	74.00	19.60	Pass	H	PK
6	9648.0000	37.66	6.72	-42.10	46.63	48.91	74.00	25.09	Pass	H	PK
7	7235.6864	36.34	5.79	-42.15	48.89	48.87	54.00	5.13	Pass	H	AV
8	1339.6340	28.24	2.81	-42.75	50.96	39.26	74.00	34.74	Pass	V	PK
9	2127.5128	31.88	3.62	-43.18	56.49	48.81	74.00	25.19	Pass	V	PK
10	3992.0661	33.79	4.33	-43.00	52.29	47.41	74.00	26.59	Pass	V	PK
11	4824.0000	34.50	4.61	-42.80	48.50	44.81	74.00	29.19	Pass	V	PK
12	7235.2824	36.34	5.79	-42.16	57.04	57.01	74.00	16.99	Pass	V	PK
13	9648.0000	37.66	6.72	-42.10	46.16	48.44	74.00	25.56	Pass	V	PK
14	7235.7444	36.34	5.79	-42.15	52.76	52.74	54.00	1.26	Pass	V	AV

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	1062.0062	27.96	2.52	-43.03	55.61	43.06	74.00	30.94	Pass	H	PK
2	1594.4594	29.02	3.07	-42.91	53.66	42.84	74.00	31.16	Pass	H	PK
3	2133.3133	31.89	3.63	-43.18	58.99	51.33	74.00	22.67	Pass	H	PK
4	4874.0000	34.50	4.78	-42.80	52.41	48.89	74.00	25.11	Pass	H	PK
5	7310.2874	36.41	5.85	-42.14	54.90	55.02	74.00	18.98	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	47.28	49.65	74.00	24.35	Pass	H	PK
7	7310.7044	36.41	5.85	-42.14	51.22	51.34	54.00	2.66	Pass	H	AV
8	1254.0254	28.15	2.69	-42.83	51.35	39.36	74.00	34.64	Pass	V	PK
9	2126.1126	31.88	3.62	-43.18	57.80	50.12	74.00	23.88	Pass	V	PK
10	4265.0843	34.17	4.48	-42.90	56.95	52.70	74.00	21.30	Pass	V	PK
11	4874.0000	34.50	4.78	-42.80	50.68	47.16	74.00	26.84	Pass	V	PK
12	7309.2873	36.41	5.85	-42.14	55.75	55.87	74.00	18.13	Pass	V	PK
13	9748.0000	37.70	6.77	-42.10	46.26	48.63	74.00	25.37	Pass	V	PK
14	7308.9753	36.41	5.85	-42.14	48.84	48.96	54.00	5.04	Pass	V	AV

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	1066.6067	27.97	2.53	-43.04	54.94	42.40	74.00	31.60	Pass	H	PK
2	1596.6597	29.04	3.07	-42.91	53.07	42.27	74.00	31.73	Pass	H	PK
3	3481.0321	33.39	4.47	-43.10	50.69	45.45	74.00	28.55	Pass	H	PK
4	4924.0000	34.50	4.85	-42.80	54.56	51.11	74.00	22.89	Pass	H	PK
5	7386.2924	36.49	5.85	-42.13	54.50	54.71	74.00	19.29	Pass	H	PK
6	9848.0000	37.74	6.83	-42.10	49.07	51.54	74.00	22.46	Pass	H	PK
7	7386.0434	36.49	5.85	-42.12	50.69	50.91	54.00	3.09	Pass	H	AV
8	1446.8447	28.35	2.95	-42.88	51.56	39.98	74.00	34.02	Pass	V	PK
9	2123.9124	31.87	3.61	-43.17	57.72	50.03	74.00	23.97	Pass	V	PK
10	4248.0832	34.15	4.51	-42.90	52.16	47.92	74.00	26.08	Pass	V	PK
11	4924.0000	34.50	4.85	-42.80	52.75	49.30	74.00	24.70	Pass	V	PK
12	7386.2924	36.49	5.85	-42.13	54.05	54.26	74.00	19.74	Pass	V	PK
13	9848.0000	37.74	6.83	-42.10	46.76	49.23	74.00	24.77	Pass	V	PK
14	7386.0694	36.49	5.85	-42.12	51.12	51.34	54.00	2.66	Pass	V	AV

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	1331.4331	28.23	2.79	-42.75	54.19	42.46	74.00	31.54	Pass	H	PK
2	2657.3657	32.65	4.09	-43.09	55.43	49.08	74.00	24.92	Pass	H	PK
3	3362.0241	33.34	4.53	-43.10	49.69	44.46	74.00	29.54	Pass	H	PK
4	4824.0000	34.50	4.61	-42.80	47.58	43.89	74.00	30.11	Pass	H	PK
5	7236.0000	36.34	5.79	-42.16	45.51	45.48	74.00	28.52	Pass	H	PK
6	9648.0000	37.66	6.72	-42.10	45.90	48.18	74.00	25.82	Pass	H	PK
7	1363.4363	28.26	2.84	-42.71	51.22	39.61	74.00	34.39	Pass	V	PK
8	2131.7132	31.88	3.62	-43.16	59.05	51.39	74.00	22.61	Pass	V	PK
9	4249.0833	34.15	4.51	-42.90	51.63	47.39	74.00	26.61	Pass	V	PK
10	4824.0000	34.50	4.61	-42.80	47.45	43.76	74.00	30.24	Pass	V	PK
11	7236.0000	36.34	5.79	-42.16	46.23	46.20	74.00	27.80	Pass	V	PK
12	9648.0000	37.66	6.72	-42.10	45.60	47.88	74.00	26.12	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	1298.2298	28.20	2.75	-42.79	52.53	40.69	74.00	33.31	Pass	H	PK
2	2128.3128	31.88	3.62	-43.18	56.52	48.84	74.00	25.16	Pass	H	PK
3	3810.0540	33.65	4.37	-43.04	49.66	44.64	74.00	29.36	Pass	H	PK
4	4874.0000	34.50	4.78	-42.80	47.61	44.09	74.00	29.91	Pass	H	PK
5	7311.0000	36.41	5.85	-42.14	46.48	46.60	74.00	27.40	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	46.41	48.78	74.00	25.22	Pass	H	PK
7	1324.0324	28.22	2.78	-42.75	51.17	39.42	74.00	34.58	Pass	V	PK
8	2130.3130	31.88	3.62	-43.17	54.19	46.52	74.00	27.48	Pass	V	PK
9	4254.0836	34.16	4.50	-42.90	52.74	48.50	74.00	25.50	Pass	V	PK
10	4874.0000	34.50	4.78	-42.80	47.49	43.97	74.00	30.03	Pass	V	PK
11	7311.0000	36.41	5.85	-42.14	47.02	47.14	74.00	26.86	Pass	V	PK
12	9748.0000	37.70	6.77	-42.10	46.50	48.87	74.00	25.13	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	1062.8063	27.96	2.52	-43.03	54.95	42.40	74.00	31.60	Pass	H	PK
2	1440.0440	28.34	2.94	-42.85	52.21	40.64	74.00	33.36	Pass	H	PK
3	1991.8992	31.65	3.46	-43.18	53.31	45.24	74.00	28.76	Pass	H	PK
4	4924.0000	34.50	4.85	-42.80	47.17	43.72	74.00	30.28	Pass	H	PK
5	7390.2927	36.49	5.85	-42.12	49.65	49.87	74.00	24.13	Pass	H	PK
6	10400.493	38.36	7.20	-42.02	48.92	52.46	74.00	21.54	Pass	H	PK
7	1421.0421	28.32	2.92	-42.77	51.40	39.87	74.00	34.13	Pass	V	PK
8	2128.5129	31.88	3.62	-43.17	58.96	51.29	74.00	22.71	Pass	V	PK
9	4253.0835	34.15	4.50	-42.89	53.31	49.07	74.00	24.93	Pass	V	PK
10	4924.0000	34.50	4.85	-42.80	47.76	44.31	74.00	29.69	Pass	V	PK
11	7468.2979	36.57	5.89	-42.11	49.39	49.74	74.00	24.26	Pass	V	PK
12	9825.4550	37.73	6.69	-42.10	48.36	50.68	74.00	23.32	Pass	V	PK

Mode:			802.11 n(HT20) (6.5Mbps) 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	1062.6063	27.96	2.52	-43.03	54.73	42.18	74.00	31.82	Pass	H	PK
2	1593.8594	29.02	3.07	-42.92	55.43	44.60	74.00	29.40	Pass	H	PK
3	4167.0778	34.03	4.50	-42.93	49.71	45.31	74.00	28.69	Pass	H	PK
4	4824.0000	34.50	4.61	-42.80	47.80	44.11	74.00	29.89	Pass	H	PK
5	7236.0000	36.34	5.79	-42.16	46.07	46.04	74.00	27.96	Pass	H	PK
6	9648.0000	37.66	6.72	-42.10	46.77	49.05	74.00	24.95	Pass	H	PK
7	1261.4261	28.16	2.70	-42.83	51.30	39.33	74.00	34.67	Pass	V	PK
8	2130.7131	31.88	3.62	-43.17	52.17	44.50	74.00	29.50	Pass	V	PK
9	3987.0658	33.79	4.33	-43.00	51.27	46.39	74.00	27.61	Pass	V	PK
10	4824.0000	34.50	4.61	-42.80	47.59	43.90	74.00	30.10	Pass	V	PK
11	7236.0000	36.34	5.79	-42.16	47.30	47.27	74.00	26.73	Pass	V	PK
12	9648.0000	37.66	6.72	-42.10	45.74	48.02	74.00	25.98	Pass	V	PK

Mode:			802.11 n(HT20) (6.5Mbps) 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	1063.8064	27.96	2.52	-43.03	55.11	42.56	74.00	31.44	Pass	H	PK
2	1329.0329	28.23	2.79	-42.75	52.14	40.41	74.00	33.59	Pass	H	PK
3	2660.3660	32.66	4.10	-43.11	57.86	51.51	74.00	22.49	Pass	H	PK
4	4874.0000	34.50	4.78	-42.80	46.91	43.39	74.00	30.61	Pass	H	PK
5	7311.0000	36.41	5.85	-42.14	45.97	46.09	74.00	27.91	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	47.19	49.56	74.00	24.44	Pass	H	PK
7	1338.4338	28.24	2.80	-42.74	51.26	39.56	74.00	34.44	Pass	V	PK
8	2130.3130	31.88	3.62	-43.17	58.79	51.12	74.00	22.88	Pass	V	PK
9	4249.0833	34.15	4.51	-42.90	52.90	48.66	74.00	25.34	Pass	V	PK
10	4874.0000	34.50	4.78	-42.80	47.09	43.57	74.00	30.43	Pass	V	PK
11	7311.0000	36.41	5.85	-42.14	46.36	46.48	74.00	27.52	Pass	V	PK
12	9748.0000	37.70	6.77	-42.10	46.66	49.03	74.00	24.97	Pass	V	PK

Mode:			802.11 n(HT20) (6.5Mbps) 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	1062.6063	27.96	2.52	-43.03	52.43	39.88	74.00	34.12	Pass	H	PK
2	1595.2595	29.03	3.07	-42.91	52.81	42.00	74.00	32.00	Pass	H	PK
3	1999.5000	31.70	3.47	-43.20	53.42	45.39	74.00	28.61	Pass	H	PK
4	4924.0000	34.50	4.85	-42.80	47.20	43.75	74.00	30.25	Pass	H	PK
5	7386.0000	36.49	5.85	-42.13	47.19	47.40	74.00	26.60	Pass	H	PK
6	9848.0000	37.74	6.83	-42.10	45.79	48.26	74.00	25.74	Pass	H	PK
7	1279.2279	28.18	2.72	-42.81	52.36	40.45	74.00	33.55	Pass	V	PK
8	2130.9131	31.88	3.62	-43.17	56.23	48.56	74.00	25.44	Pass	V	PK
9	4257.0838	34.16	4.49	-42.89	53.60	49.36	74.00	24.64	Pass	V	PK
10	4924.0000	34.50	4.85	-42.80	46.90	43.45	74.00	30.55	Pass	V	PK
11	7386.0000	36.49	5.85	-42.13	46.09	46.30	74.00	27.70	Pass	V	PK
12	9848.0000	37.74	6.83	-42.10	46.45	48.92	74.00	25.08	Pass	V	PK

Mode:			802.11 n(HT40) (13.5Mbps) Transmitting					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	1328.6329	28.23	2.79	-42.76	54.51	42.77	74.00	31.23	Pass	H	PK
2	1995.2995	31.67	3.47	-43.19	53.91	45.86	74.00	28.14	Pass	H	PK
3	3194.0129	33.28	4.64	-43.10	50.81	45.63	74.00	28.37	Pass	H	PK
4	4844.0000	34.50	4.66	-42.80	47.40	43.76	74.00	30.24	Pass	H	PK
5	7266.0000	36.37	5.80	-42.15	46.24	46.26	74.00	27.74	Pass	H	PK
6	9688.0000	37.68	6.62	-42.10	46.25	48.45	74.00	25.55	Pass	H	PK
7	1630.6631	29.26	3.11	-42.82	51.70	41.25	74.00	32.75	Pass	V	PK
8	2127.9128	31.88	3.62	-43.18	57.67	49.99	74.00	24.01	Pass	V	PK
9	4252.0835	34.15	4.51	-42.90	52.19	47.95	74.00	26.05	Pass	V	PK
10	4844.0000	34.50	4.66	-42.80	46.74	43.10	74.00	30.90	Pass	V	PK
11	7266.0000	36.37	5.80	-42.15	46.51	46.53	74.00	27.47	Pass	V	PK
12	9688.0000	37.68	6.62	-42.10	47.76	49.96	74.00	24.04	Pass	V	PK

Mode:			802.11 n(HT40) (13.5Mbps) 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	1065.0065	27.97	2.53	-43.04	55.20	42.66	74.00	31.34	Pass	H	PK
2	1440.2440	28.34	2.94	-42.85	52.13	40.56	74.00	33.44	Pass	H	PK
3	2130.9131	31.88	3.62	-43.17	58.55	50.88	74.00	23.12	Pass	H	PK
4	4874.0000	34.50	4.78	-42.80	47.01	43.49	74.00	30.51	Pass	H	PK
5	7311.0000	36.41	5.85	-42.14	46.08	46.20	74.00	27.80	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	46.43	48.80	74.00	25.20	Pass	H	PK
7	1299.2299	28.20	2.75	-42.79	52.33	40.49	74.00	33.51	Pass	V	PK
8	2131.7132	31.88	3.62	-43.16	56.77	49.11	74.00	24.89	Pass	V	PK
9	3992.0661	33.79	4.33	-43.00	52.29	47.41	74.00	26.59	Pass	V	PK
10	4874.0000	34.50	4.78	-42.80	47.49	43.97	74.00	30.03	Pass	V	PK
11	7311.0000	36.41	5.85	-42.14	46.10	46.22	74.00	27.78	Pass	V	PK
12	9748.0000	37.70	6.77	-42.10	46.04	48.41	74.00	25.59	Pass	V	PK

Mode:			802.11 n(HT40) (13.5Mbps) Transmitting					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	1329.6330	28.23	2.79	-42.75	53.18	41.45	74.00	32.55	Pass	H	PK
2	1997.8998	31.69	3.47	-43.20	52.45	44.41	74.00	29.59	Pass	H	PK
3	3990.0660	33.79	4.33	-43.00	50.45	45.57	74.00	28.43	Pass	H	PK
4	4904.0000	34.50	4.88	-42.80	47.22	43.80	74.00	30.20	Pass	H	PK
5	7356.0000	36.46	5.85	-42.13	46.37	46.55	74.00	27.45	Pass	H	PK
6	9808.0000	37.72	6.59	-42.10	46.50	48.71	74.00	25.29	Pass	H	PK
7	1322.4322	28.22	2.78	-42.76	51.19	39.43	74.00	34.57	Pass	V	PK
8	2131.5132	31.88	3.62	-43.17	56.11	48.44	74.00	25.56	Pass	V	PK
9	3989.0659	33.79	4.33	-43.00	52.54	47.66	74.00	26.34	Pass	V	PK
10	4904.0000	34.50	4.88	-42.80	46.12	42.70	74.00	31.30	Pass	V	PK
11	7356.0000	36.46	5.85	-42.13	46.15	46.33	74.00	27.67	Pass	V	PK
12	9808.0000	37.72	6.59	-42.10	46.64	48.85	74.00	25.15	Pass	V	PK

Note:

1) 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

2) 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.