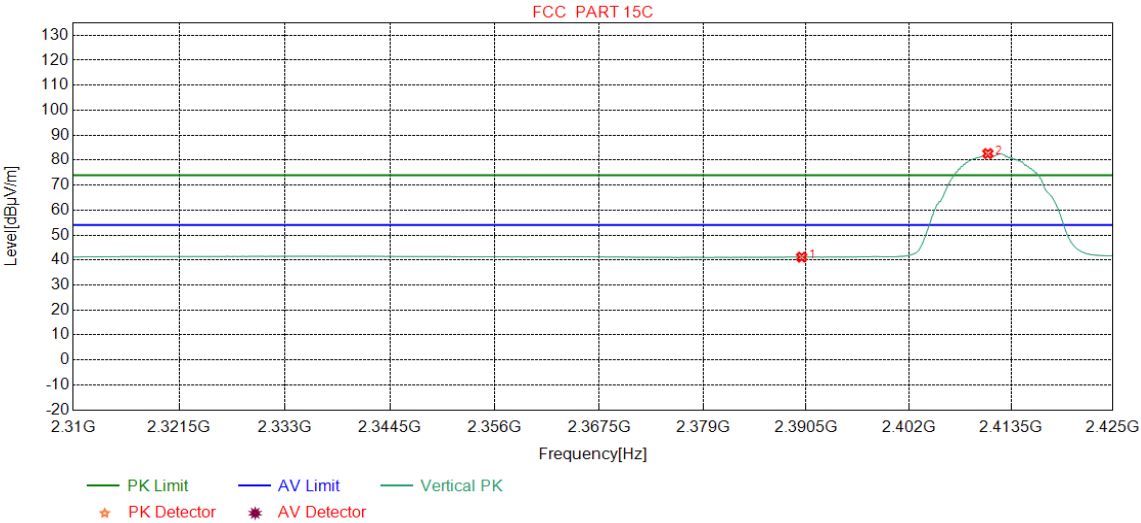


Mode:	802.11 b Transmitting	Channel:	2412
Remark:	AV		

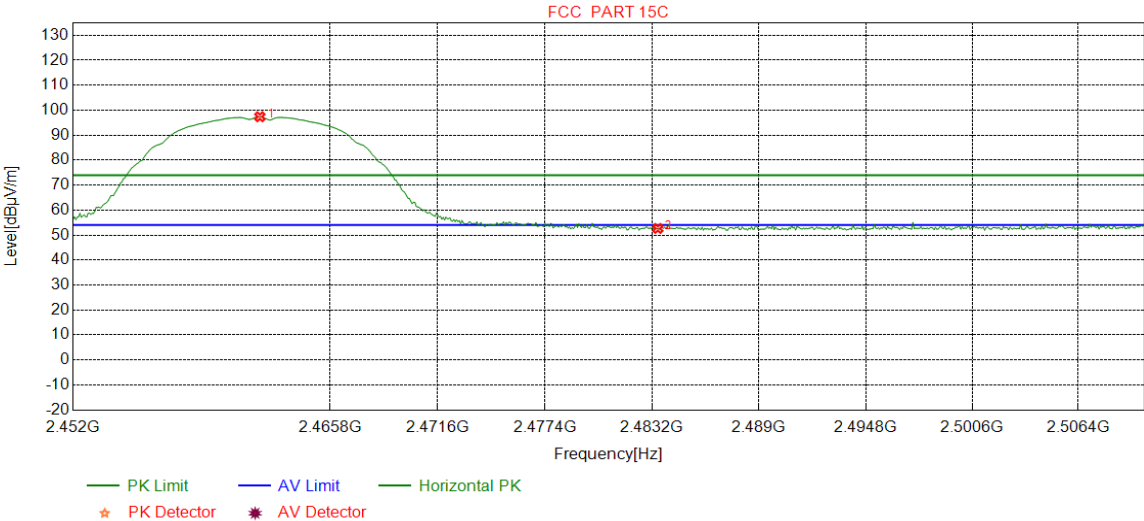
Test Graph



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	38.67	41.17	54.00	12.83	Pass	Vertical
2	2410.8949	32.28	13.35	-43.12	80.12	82.63	54.00	-28.63	Pass	Vertical

Mode:	802.11 b Transmitting	Channel:	2462
Remark:	PK		

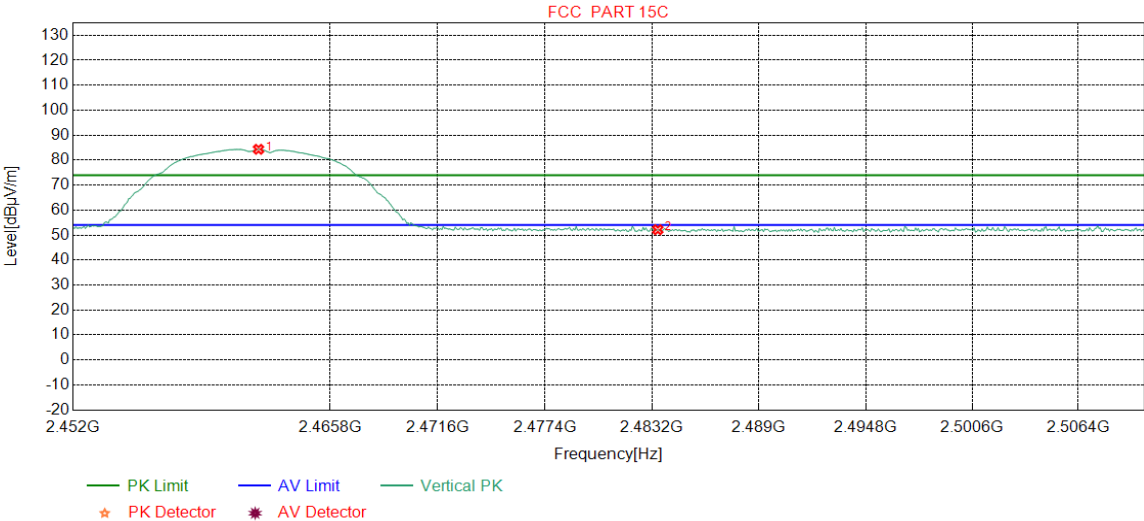
Test Graph



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	94.67	97.38	74.00	-23.38	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.99	52.64	74.00	21.36	Pass	Horizontal

Mode:	802.11 b Transmitting	Channel:	2462
Remark:	PK		

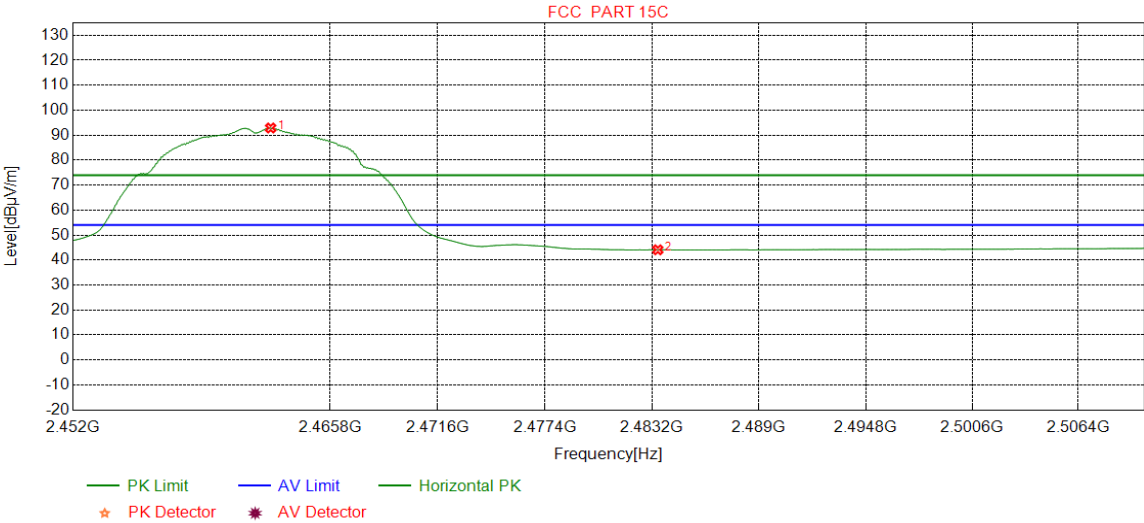
Test Graph



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	81.64	84.35	74.00	-10.35	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.50	52.15	74.00	21.85	Pass	Vertical

Mode:	802.11 b Transmitting	Channel:	2462
Remark:	AV		

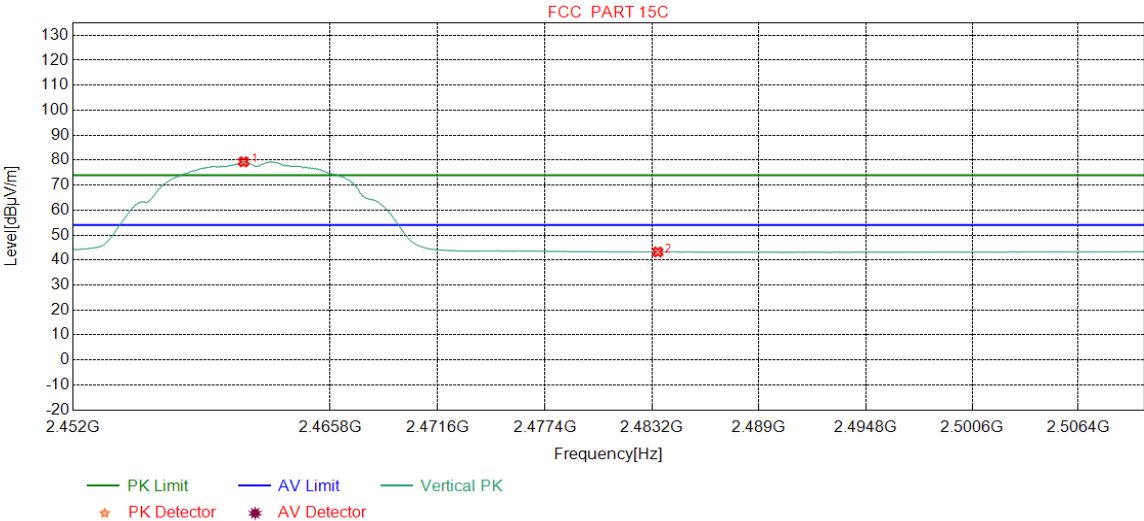
Test Graph



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	2462.5982	32.35	13.47	-43.11	90.16	92.87	54.00	-38.87	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	41.45	44.10	54.00	9.90	Pass	Horizontal

Mode:	802.11 b Transmitting	Channel:	2462
Remark:	AV		

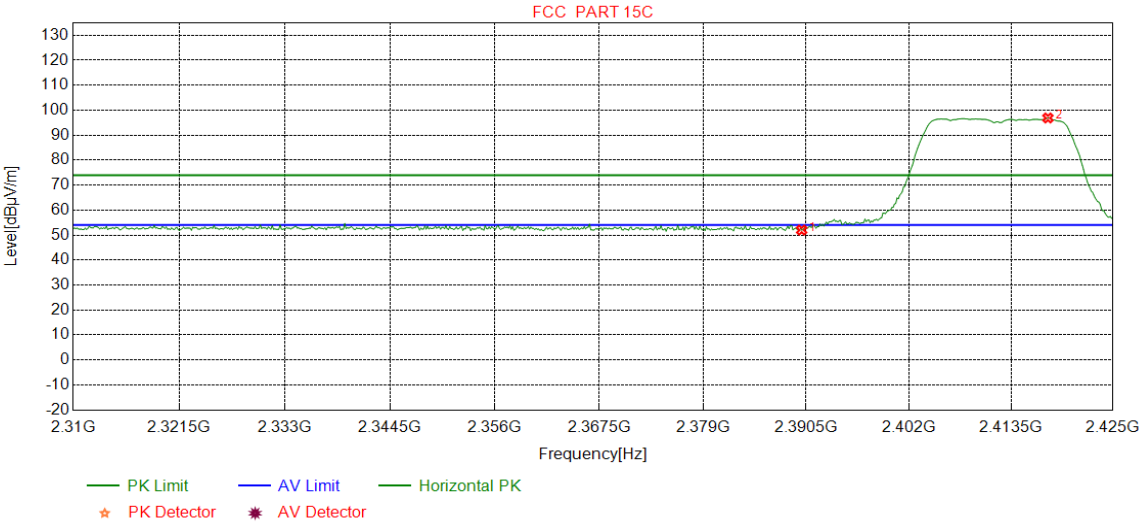
Test Graph



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	76.61	79.33	54.00	-25.33	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.58	43.23	54.00	10.77	Pass	Vertical

Mode:	802.11 g Transmitting	Channel:	2412
Remark:	PK		

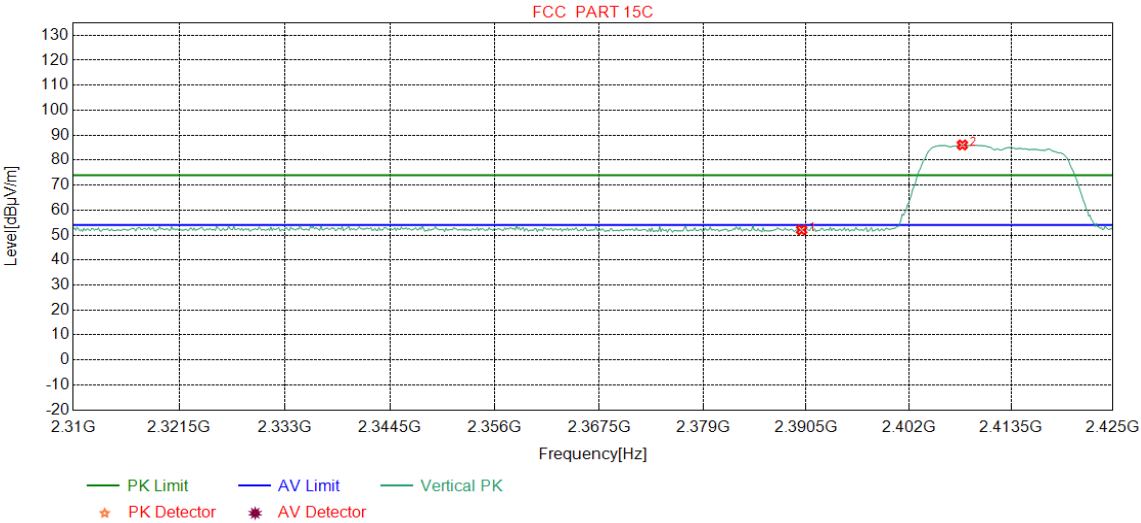
Test Graph



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	49.49	51.99	74.00	22.01	Pass	Horizontal
2	2417.6596	32.28	13.38	-43.11	94.33	96.88	74.00	-22.88	Pass	Horizontal

Mode:	802.11 g Transmitting	Channel:	2412
Remark:	PK		

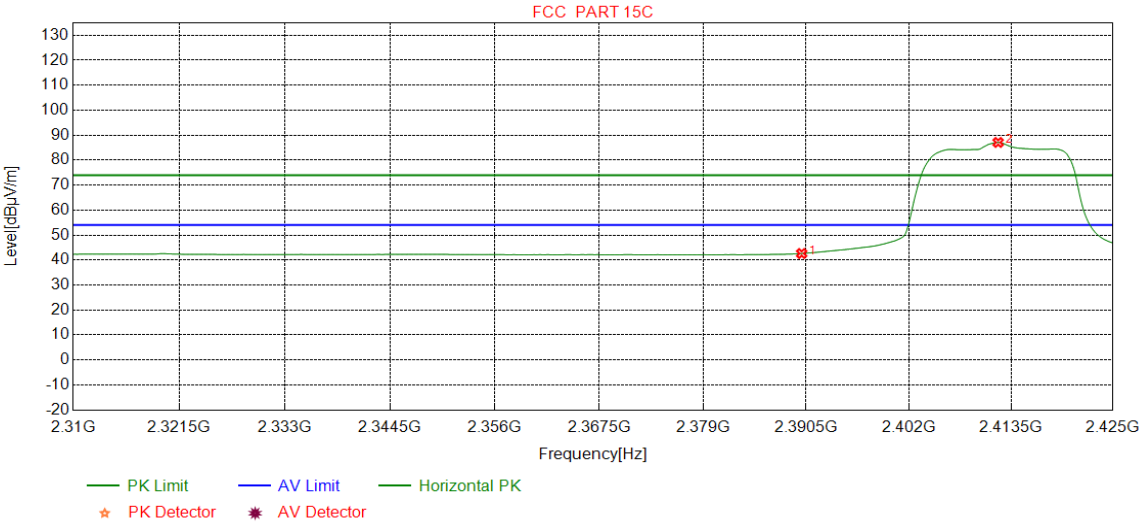
Test Graph



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	49.56	52.06	74.00	21.94	Pass	Vertical
2	2408.0163	32.27	13.34	-43.12	83.59	86.08	74.00	-12.08	Pass	Vertical

Mode:	802.11 g Transmitting	Channel:	2412
Remark:	AV		

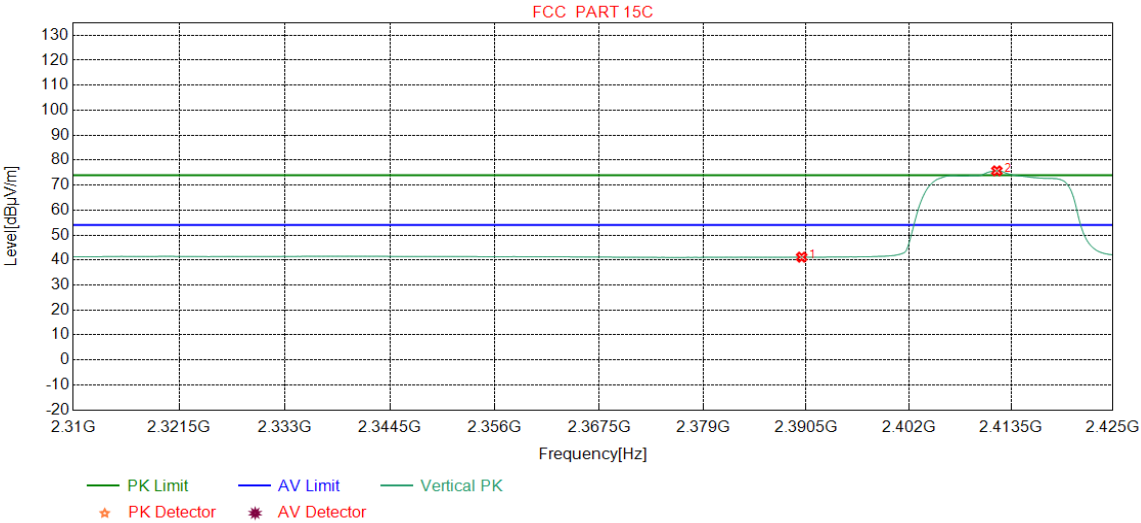
Test Graph



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	40.12	42.62	54.00	11.38	Pass	Horizontal
2	2412.0463	32.28	13.36	-43.13	84.58	87.09	54.00	-33.09	Pass	Horizontal

Mode:	802.11 g Transmitting	Channel:	2412
Remark:	AV		

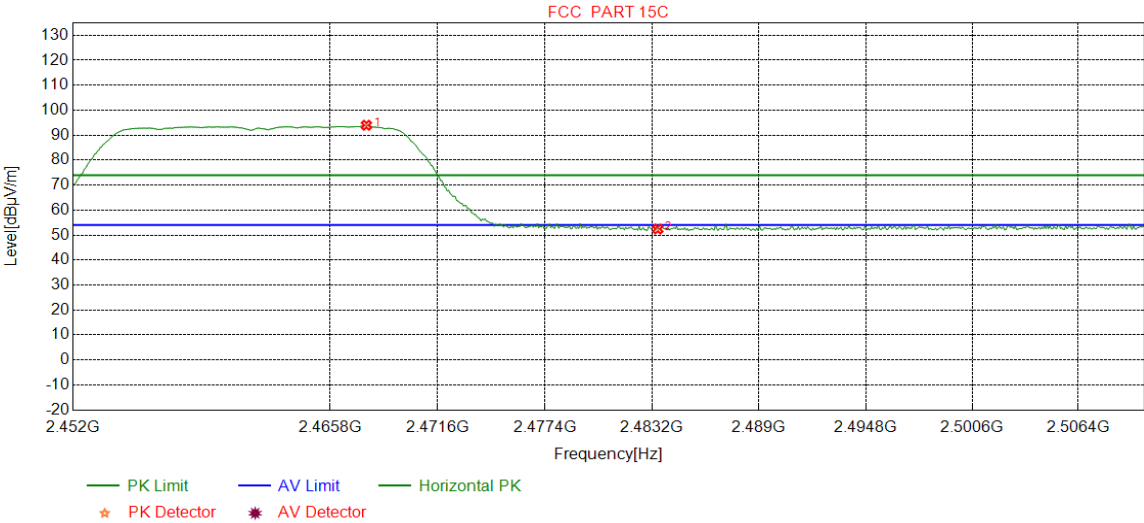
Test Graph



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	38.66	41.16	54.00	12.84	Pass	Vertical
2	2411.9024	32.28	13.35	-43.12	73.21	75.72	54.00	-21.72	Pass	Vertical

Mode:	802.11 g Transmitting	Channel:	2462
Remark:	PK		

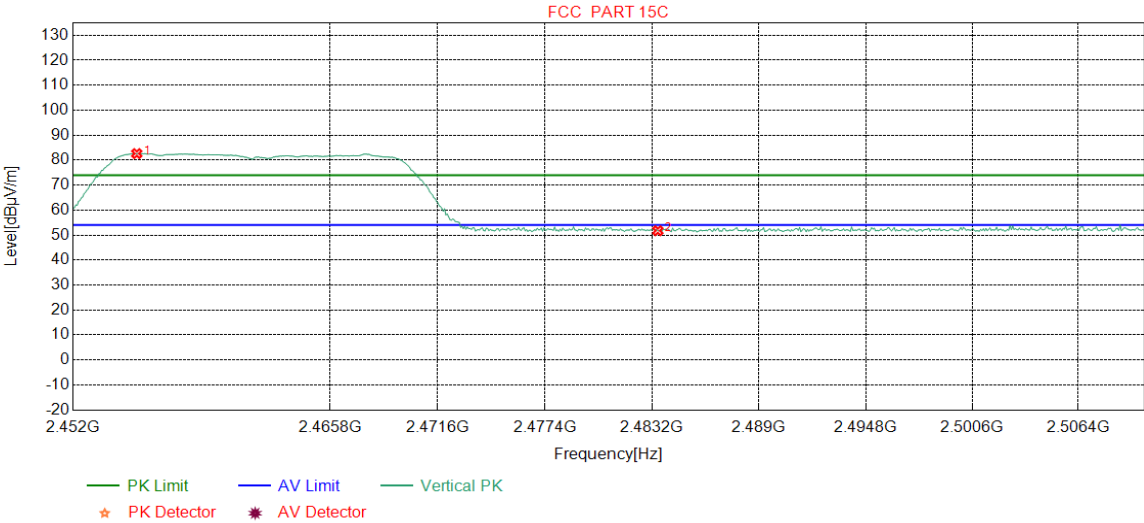
Test Graph



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	2467.7522	32.35	13.45	-43.10	91.28	93.98	74.00	-19.98	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.76	52.41	74.00	21.59	Pass	Horizontal

Mode:	802.11 g Transmitting	Channel:	2462
Remark:	PK		

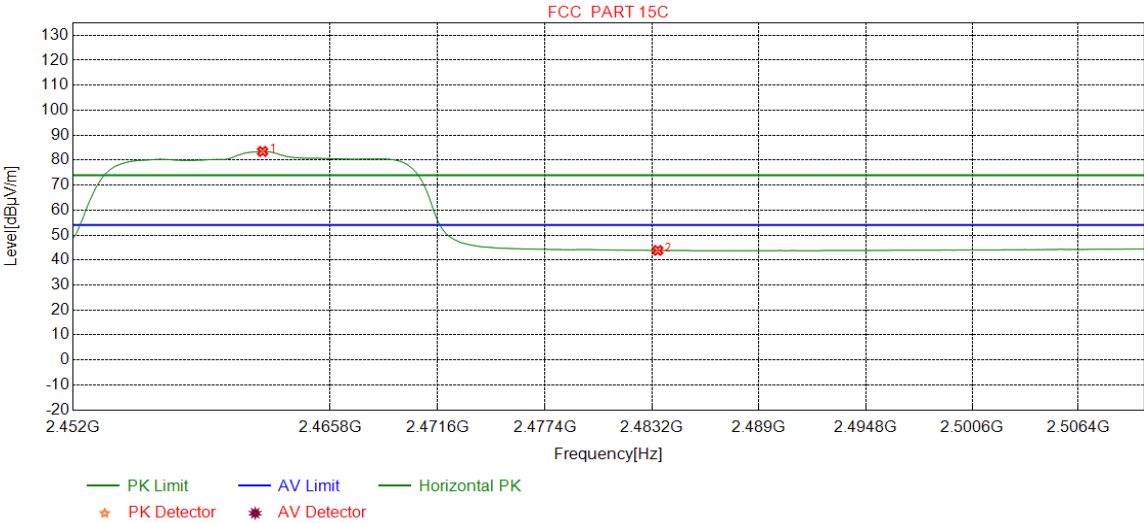
Test Graph



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	2455.4118	32.34	13.51	-43.12	79.89	82.62	74.00	-8.62	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.09	51.74	74.00	22.26	Pass	Vertical

Mode:	802.11 g Transmitting	Channel:	2462
Remark:	AV		

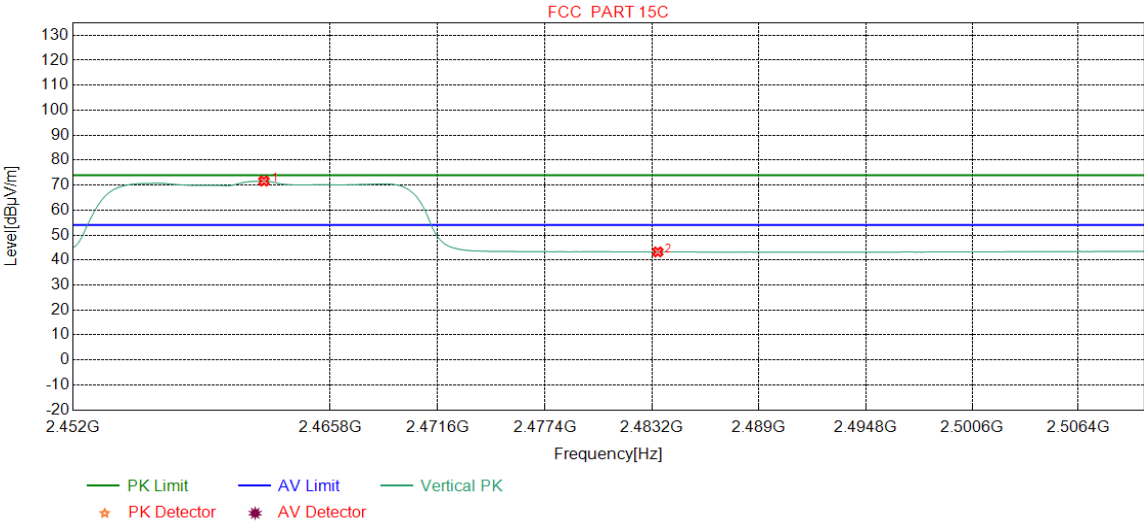
Test Graph



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	2462.1627	32.35	13.47	-43.11	80.77	83.48	54.00	-29.48	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	41.19	43.84	54.00	10.16	Pass	Horizontal

Mode:	802.11 g 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	2462.2353	32.35	13.47	-43.11	68.92	71.63	54.00	-17.63	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.60	43.25	54.00	10.75	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; 6Mbps of rate is the worst case of 802.11g, 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the 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, 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	42.64	23.14	40.00	16.86	Pass	H	PK
2	143.9864	7.34	1.41	-31.99	58.97	35.73	43.50	7.77	Pass	H	PK
3	168.0448	8.34	1.52	-31.96	59.58	37.48	43.50	6.02	Pass	H	PK
4	240.0260	11.94	1.84	-31.90	55.32	37.20	46.00	8.80	Pass	H	PK
5	319.9620	13.64	2.12	-31.83	57.13	41.06	46.00	4.94	Pass	H	PK
6	828.0988	21.24	3.46	-31.96	41.46	34.20	46.00	11.80	Pass	H	PK
7	36.5967	11.21	0.67	-31.38	44.54	25.04	40.00	14.96	Pass	V	PK
8	52.9913	12.72	0.82	-32.02	40.72	22.24	40.00	17.76	Pass	V	PK
9	168.0448	8.34	1.52	-31.96	52.68	30.58	43.50	12.92	Pass	V	PK
10	240.0260	11.94	1.84	-31.90	50.62	32.50	46.00	13.50	Pass	V	PK
11	319.9620	13.64	2.12	-31.83	49.96	33.89	46.00	12.11	Pass	V	PK
12	600.0290	19.00	2.96	-31.50	42.45	32.91	46.00	13.09	Pass	V	PK

Transmitter Emission above 1GHz

Mode:			802.11 b Transmitting					Channel:		2412MHz	
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	1690.4690	29.66	3.19	-42.69	51.21	41.37	74.00	32.63	Pass	H	PK
2	3447.0298	33.38	4.44	-43.10	50.52	45.24	74.00	28.76	Pass	H	PK
3	4824.0000	34.50	4.61	-42.80	52.96	49.27	74.00	24.73	Pass	H	PK
4	7236.0000	36.34	5.79	-42.16	46.40	46.37	74.00	27.63	Pass	H	PK
5	9218.4146	37.66	6.50	-42.05	49.90	52.01	74.00	21.99	Pass	H	PK
6	9648.0000	37.66	6.72	-42.10	45.78	48.06	74.00	25.94	Pass	H	PK
7	1990.6991	31.64	3.46	-43.18	58.15	50.07	74.00	23.93	Pass	V	PK
8	4824.0000	34.50	4.61	-42.80	53.48	49.79	74.00	24.21	Pass	V	PK
9	5943.1962	35.71	5.28	-42.60	49.13	47.52	74.00	26.48	Pass	V	PK
10	7236.0000	36.34	5.79	-42.16	45.72	45.69	74.00	28.31	Pass	V	PK
11	9316.4211	37.64	6.63	-42.07	48.92	51.12	74.00	22.88	Pass	V	PK
12	9648.0000	37.66	6.72	-42.10	45.95	48.23	74.00	25.77	Pass	V	PK

Mode:			802.11 b Transmitting					Channel:		2437MHz	
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	1656.8657	29.44	3.15	-42.77	56.60	46.42	74.00	27.58	Pass	H	PK
2	3601.0401	33.48	4.34	-43.08	49.42	44.16	74.00	29.84	Pass	H	PK
3	4874.0000	34.50	4.78	-42.80	53.24	49.72	74.00	24.28	Pass	H	PK
4	5992.1995	35.79	5.34	-42.61	48.65	47.17	74.00	26.83	Pass	H	PK
5	7337.2892	36.44	5.85	-42.14	48.75	48.90	74.00	25.10	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	47.55	49.92	74.00	24.08	Pass	H	PK
7	1992.6993	31.65	3.46	-43.18	57.52	49.45	74.00	24.55	Pass	V	PK
8	4874.0000	34.50	4.78	-42.80	52.46	48.94	74.00	25.06	Pass	V	PK
9	5496.1664	35.00	5.14	-42.60	49.96	47.50	74.00	26.50	Pass	V	PK
10	7311.0000	36.41	5.85	-42.14	45.80	45.92	74.00	28.08	Pass	V	PK
11	9199.4133	37.66	6.44	-42.04	49.27	51.33	74.00	22.67	Pass	V	PK
12	9748.0000	37.70	6.77	-42.10	46.97	49.34	74.00	24.66	Pass	V	PK

Mode:			802.11 b Transmitting					Channel:		2462MHz	
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	1795.6796	30.35	3.31	-42.70	52.15	43.11	74.00	30.89	Pass	H	PK
2	3837.0558	33.67	4.36	-43.03	50.74	45.74	74.00	28.26	Pass	H	PK
3	4924.0000	34.50	4.85	-42.80	53.55	50.10	74.00	23.90	Pass	H	PK
4	7386.0000	36.49	5.85	-42.13	45.40	45.61	74.00	28.39	Pass	H	PK
5	9102.4068	37.68	6.44	-42.02	49.08	51.18	74.00	22.82	Pass	H	PK
6	9848.0000	37.74	6.83	-42.10	45.59	48.06	74.00	25.94	Pass	H	PK
7	1792.8793	30.33	3.31	-42.71	52.29	43.22	74.00	30.78	Pass	V	PK
8	1991.0991	31.64	3.46	-43.18	57.48	49.40	74.00	24.60	Pass	V	PK
9	3188.0125	33.28	4.63	-43.10	50.88	45.69	74.00	28.31	Pass	V	PK
10	4924.0000	34.50	4.85	-42.80	51.08	47.63	74.00	26.37	Pass	V	PK
11	7386.0000	36.49	5.85	-42.13	46.47	46.68	74.00	27.32	Pass	V	PK
12	9848.0000	37.74	6.83	-42.10	46.08	48.55	74.00	25.45	Pass	V	PK

Mode:			802.11 g Transmitting					Channel:		2412MHz	
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	1994.0994	31.66	3.46	-43.18	53.29	45.23	74.00	28.77	Pass	H	PK
2	3815.0543	33.65	4.37	-43.04	49.56	44.54	74.00	29.46	Pass	H	PK
3	4824.0000	34.50	4.61	-42.80	48.37	44.68	74.00	29.32	Pass	H	PK
4	6100.2067	35.82	5.26	-42.58	48.31	46.81	74.00	27.19	Pass	H	PK
5	7236.0000	36.34	5.79	-42.16	46.35	46.32	74.00	27.68	Pass	H	PK
6	9648.0000	37.66	6.72	-42.10	45.74	48.02	74.00	25.98	Pass	H	PK
7	1793.2793	30.34	3.31	-42.71	55.11	46.05	74.00	27.95	Pass	V	PK
8	1992.8993	31.65	3.46	-43.18	57.39	49.32	74.00	24.68	Pass	V	PK
9	4824.0000	34.50	4.61	-42.80	47.43	43.74	74.00	30.26	Pass	V	PK
10	6409.2273	35.88	5.35	-42.52	50.12	48.83	74.00	25.17	Pass	V	PK
11	7236.0000	36.34	5.79	-42.16	46.27	46.24	74.00	27.76	Pass	V	PK
12	9648.0000	37.66	6.72	-42.10	46.51	48.79	74.00	25.21	Pass	V	PK

Mode:			802.11 g Transmitting					Channel:		2437MHz	
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	1797.0797	30.36	3.31	-42.70	52.99	43.96	74.00	30.04	Pass	H	PK
2	1995.4996	31.67	3.47	-43.19	54.47	46.42	74.00	27.58	Pass	H	PK
3	4874.0000	34.50	4.78	-42.80	49.64	46.12	74.00	27.88	Pass	H	PK
4	6374.2249	35.87	5.39	-42.52	49.54	48.28	74.00	25.72	Pass	H	PK
5	7311.0000	36.41	5.85	-42.14	46.91	47.03	74.00	26.97	Pass	H	PK
6	9748.0000	37.70	6.77	-42.10	48.44	50.81	74.00	23.19	Pass	H	PK
7	1997.2997	31.68	3.47	-43.19	55.60	47.56	74.00	26.44	Pass	V	PK
8	2192.7193	31.97	3.65	-43.16	54.01	46.47	74.00	27.53	Pass	V	PK
9	4874.0000	34.50	4.78	-42.80	47.72	44.20	74.00	29.80	Pass	V	PK
10	6909.2606	36.06	5.87	-42.25	49.27	48.95	74.00	25.05	Pass	V	PK
11	7311.0000	36.41	5.85	-42.14	45.74	45.86	74.00	28.14	Pass	V	PK
12	9748.0000	37.70	6.77	-42.10	46.24	48.61	74.00	25.39	Pass	V	PK

Mode:			802.11 g Transmitting					Channel:		2462MHz	
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	1991.8992	31.65	3.46	-43.18	52.22	44.15	74.00	29.85	Pass	H	PK
2	3868.0579	33.69	4.35	-43.02	49.81	44.83	74.00	29.17	Pass	H	PK
3	4924.0000	34.50	4.85	-42.80	48.67	45.22	74.00	28.78	Pass	H	PK
4	5610.1740	35.18	5.07	-42.61	50.40	48.04	74.00	25.96	Pass	H	PK
5	7386.0000	36.49	5.85	-42.13	46.50	46.71	74.00	27.29	Pass	H	PK
6	9848.0000	37.74	6.83	-42.10	46.04	48.51	74.00	25.49	Pass	H	PK
7	1799.6800	30.38	3.32	-42.71	56.20	47.19	74.00	26.81	Pass	V	PK
8	1999.2999	31.70	3.47	-43.20	55.57	47.54	74.00	26.46	Pass	V	PK
9	4924.0000	34.50	4.85	-42.80	46.67	43.22	74.00	30.78	Pass	V	PK
10	7386.0000	36.49	5.85	-42.13	46.43	46.64	74.00	27.36	Pass	V	PK
11	8362.3575	36.54	6.21	-42.05	49.67	50.37	74.00	23.63	Pass	V	PK
12	9848.0000	37.74	6.83	-42.10	45.57	48.04	74.00	25.96	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.