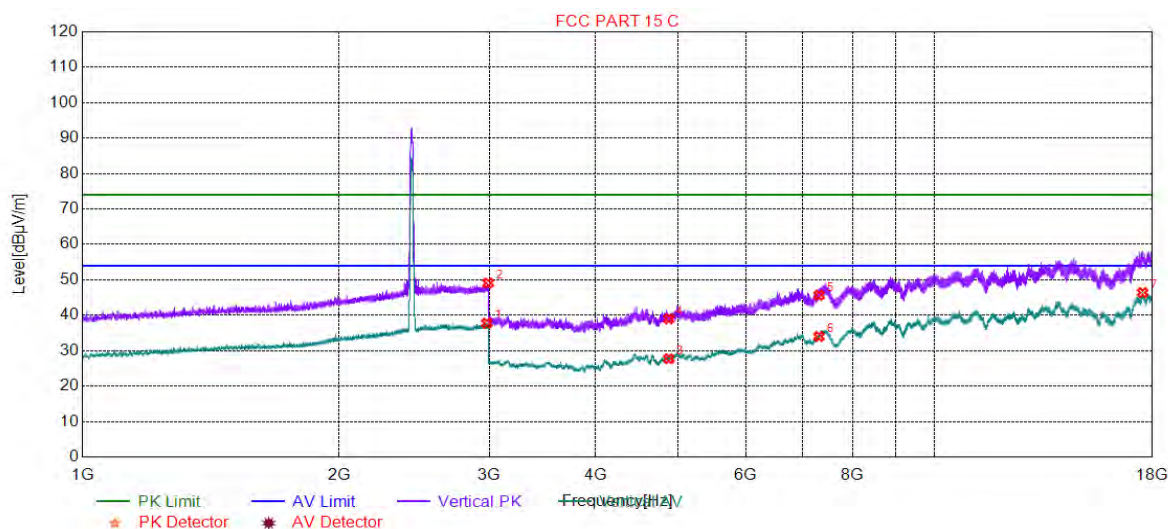


4.1.2.3.3 802.11N20_MIMO_Highest Channel_Vertical



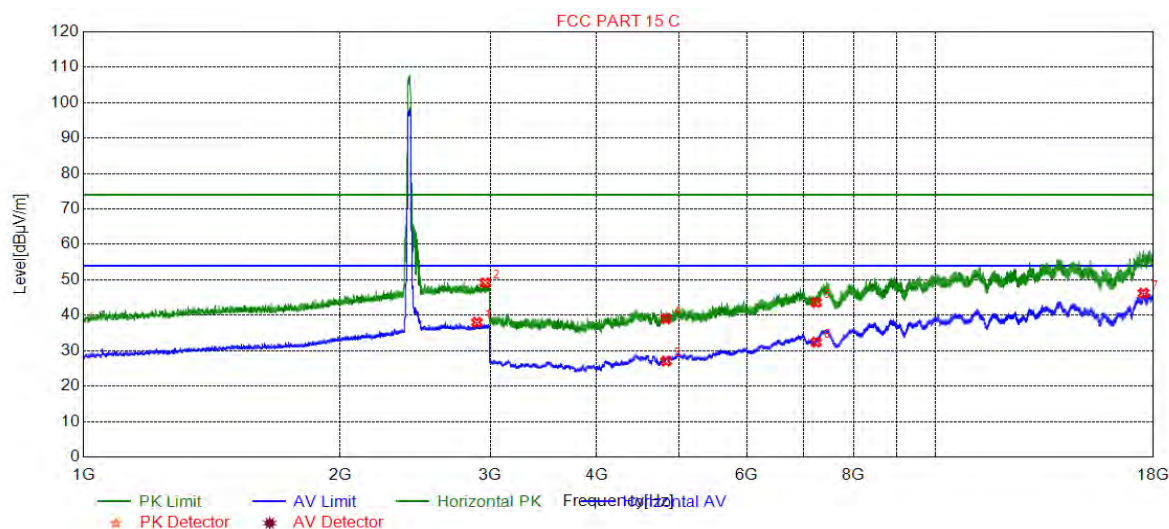
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2981.4954	37.78	2.32	54.00	16.22	150	236	Vertical
2	2991.4979	49.10	2.32	74.00	24.90	150	103	Vertical
3	4874.0000	27.75	-19.37	54.00	26.25	150	116	Vertical
4	4874.0000	39.00	-19.37	74.00	35.00	150	196	Vertical
5	7311.0000	45.66	-11.50	74.00	28.34	150	50	Vertical
6	7311.0000	34.01	-11.50	54.00	19.99	150	34	Vertical
7	17526.476	46.38	0.69	54.00	7.62	150	142	Vertical



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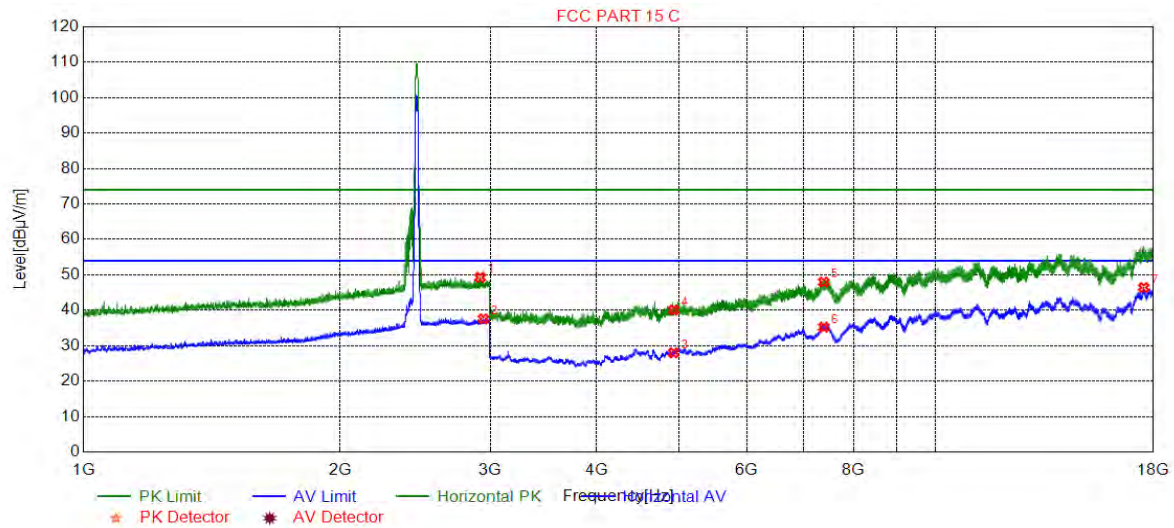
4.1.2.3.4 802.11N20_MIMO_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2893.9735	38.01	2.25	54.00	15.99	150	209	Horizontal
2	2959.4899	49.20	2.30	74.00	24.80	150	4	Horizontal
3	4824.0000	27.08	-20.09	54.00	26.92	150	335	Horizontal
4	4824.0000	39.02	-20.09	74.00	34.98	150	71	Horizontal
5	7236.0000	43.60	-12.40	74.00	30.40	150	351	Horizontal
6	7236.0000	32.40	-12.40	54.00	21.60	150	109	Horizontal
7	17519.476	46.22	0.60	54.00	7.78	150	141	Horizontal



4.1.2.3.5 802.11N20_MIMO_Middle Channel_Horizontal

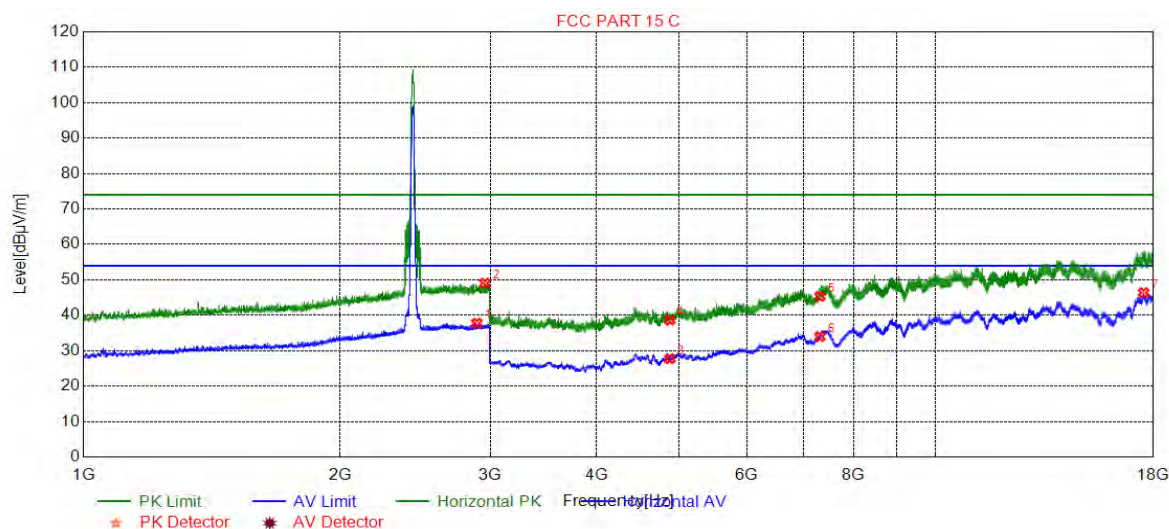


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2918.9797	49.29	2.27	74.00	24.71	150	335	Horizontal
2	2944.9862	37.56	2.29	54.00	16.44	150	239	Horizontal
3	4924.0000	27.99	-18.87	54.00	26.01	150	344	Horizontal
4	4924.0000	40.08	-18.87	74.00	33.92	150	312	Horizontal
5	7386.0000	47.95	-10.72	74.00	26.05	150	259	Horizontal
6	7386.0000	35.23	-10.72	54.00	18.77	150	171	Horizontal
7	17532.476	46.42	0.77	54.00	7.58	150	256	Horizontal



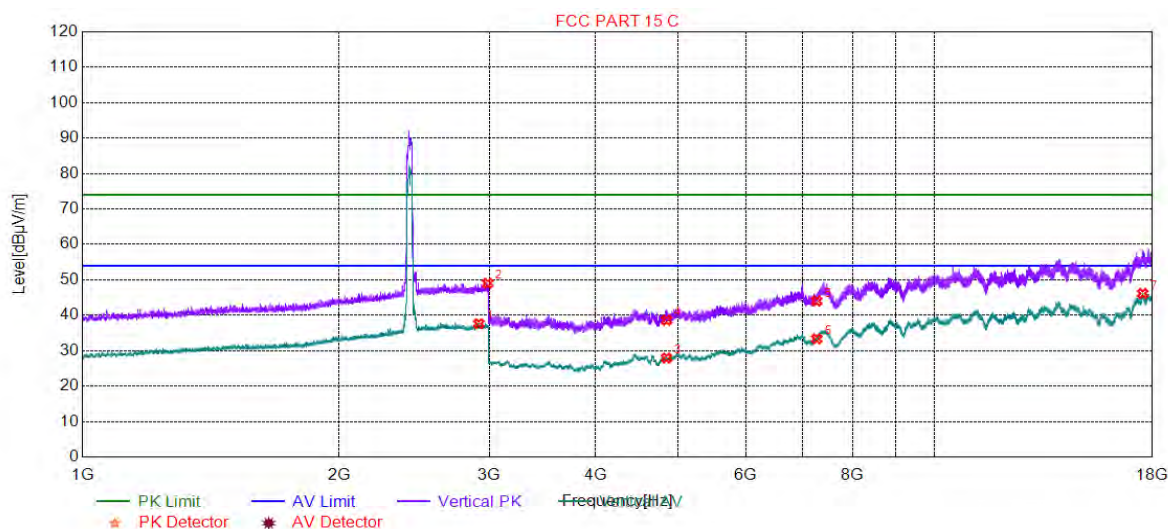
4.1.2.3.6 802.11N20_MIMO_Highest Channel_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2892.9732	37.76	2.25	54.00	16.24	150	53	Horizontal
2	2956.9892	49.04	2.30	74.00	24.96	150	140	Horizontal
3	4874.0000	27.75	-19.37	54.00	26.25	150	116	Horizontal
4	4874.0000	38.66	-19.37	74.00	35.34	150	293	Horizontal
5	7311.0000	45.36	-11.50	74.00	28.64	150	342	Horizontal
6	7311.0000	34.01	-11.50	54.00	19.99	150	34	Horizontal
7	17526.476	46.38	0.69	54.00	7.62	150	142	Horizontal



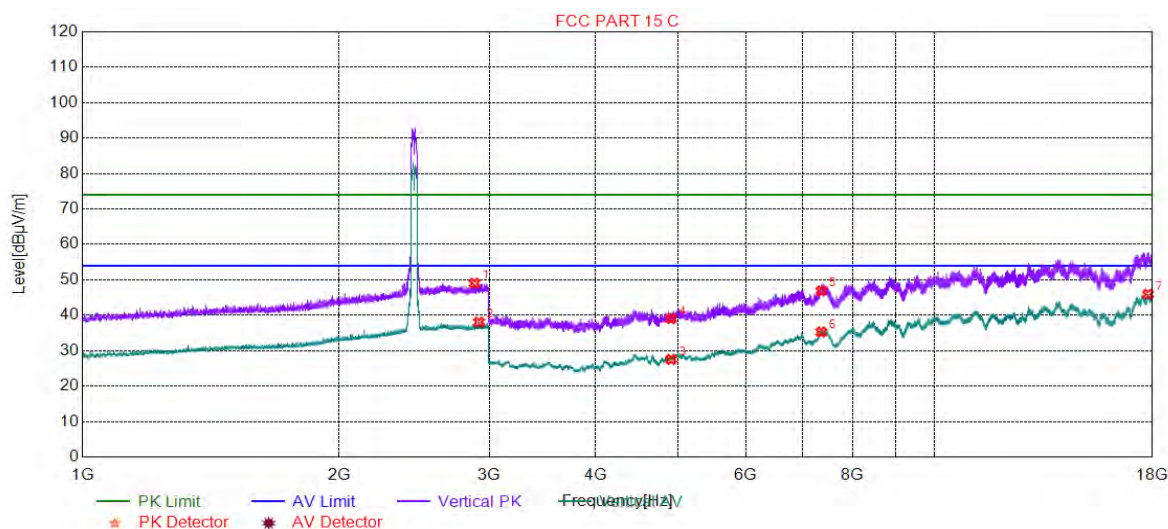
4.1.2.3.7 802.11N40_MIMO_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2916.4791	37.65	2.27	54.00	16.35	150	80	Vertical
2	2988.4971	49.02	2.32	74.00	24.98	150	64	Vertical
3	4844.0000	27.94	-19.80	54.00	26.06	150	180	Vertical
4	4844.0000	38.59	-19.80	74.00	35.41	150	212	Vertical
5	7266.0000	44.02	-12.03	74.00	29.98	150	180	Vertical
6	7266.0000	33.36	-12.03	54.00	20.64	150	342	Vertical
7	17528.976	46.15	0.72	54.00	7.85	150	227	Vertical



4.1.2.3.8 802.11N40_MIMO_Middle Channel_Vertical



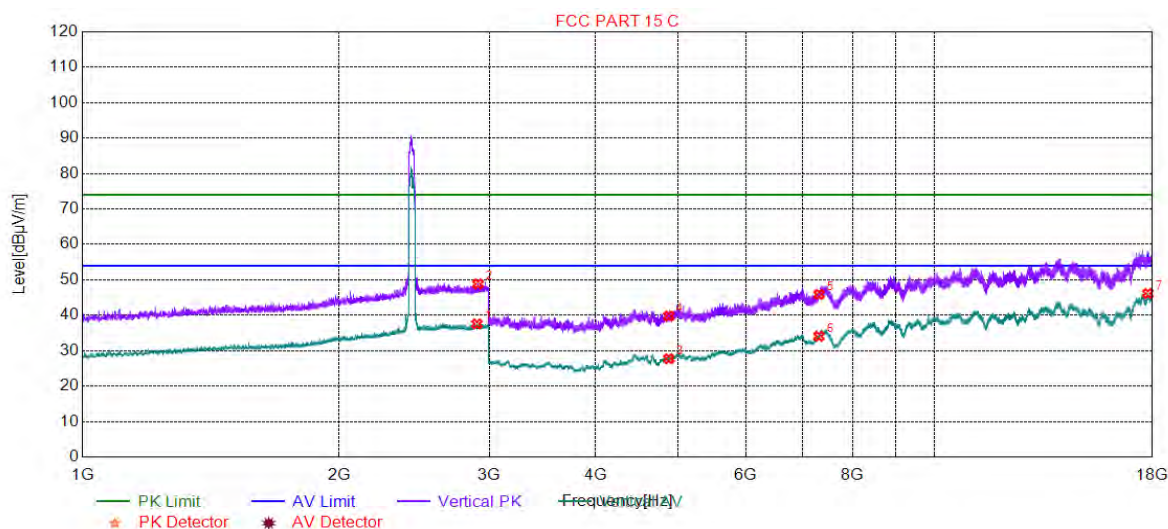
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2882.9707	49.01	2.24	74.00	24.99	150	249	Vertical
2	2918.9797	38.05	2.27	54.00	15.95	150	17	Vertical
3	4904.0000	27.55	-18.98	54.00	26.45	150	18	Vertical
4	4904.0000	39.03	-18.98	74.00	34.97	150	51	Vertical
5	7356.0000	46.85	-11.03	74.00	27.15	150	132	Vertical
6	7356.0000	35.28	-11.03	54.00	18.72	150	51	Vertical
7	17789.989	45.96	-0.79	54.00	8.04	150	112	Vertical



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4.1.2.3.9 802.11N40_MIMO_Highest Channel_Vertical



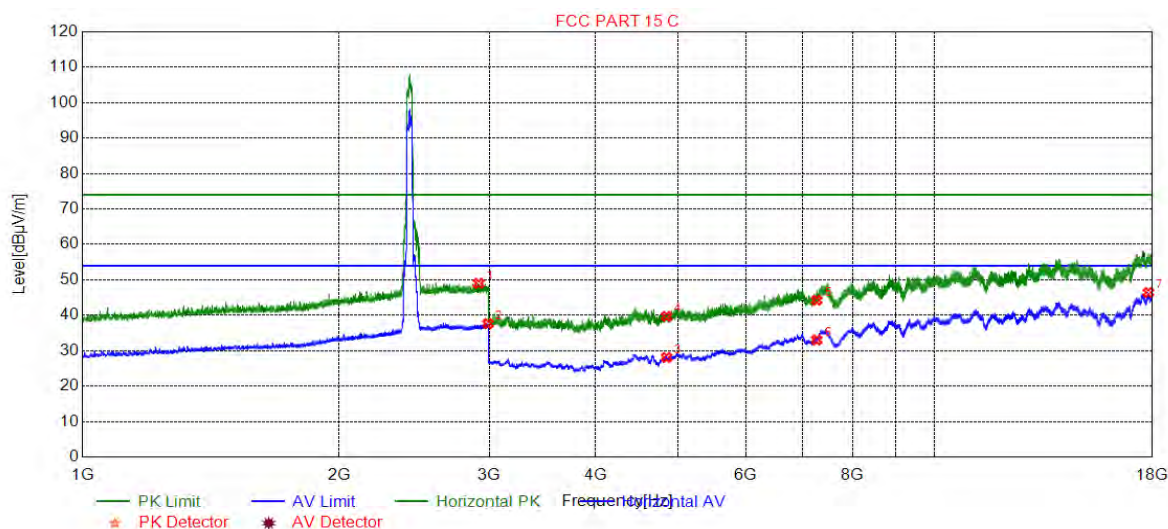
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2901.9755	37.55	2.26	54.00	16.45	150	189	Vertical
2	2910.4776	48.84	2.27	74.00	25.16	150	111	Vertical
3	4874.0000	27.75	-19.37	54.00	26.25	150	293	Vertical
4	4874.0000	39.77	-19.37	74.00	34.23	150	326	Vertical
5	7311.0000	45.90	-11.50	74.00	28.10	150	293	Vertical
6	7311.0000	34.08	-11.50	54.00	19.92	150	51	Vertical
7	17777.988	46.15	-0.81	54.00	7.85	150	314	Vertical



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4.1.2.3.10 802.11N40_MIMO_Lowest Channel_ Horizontal



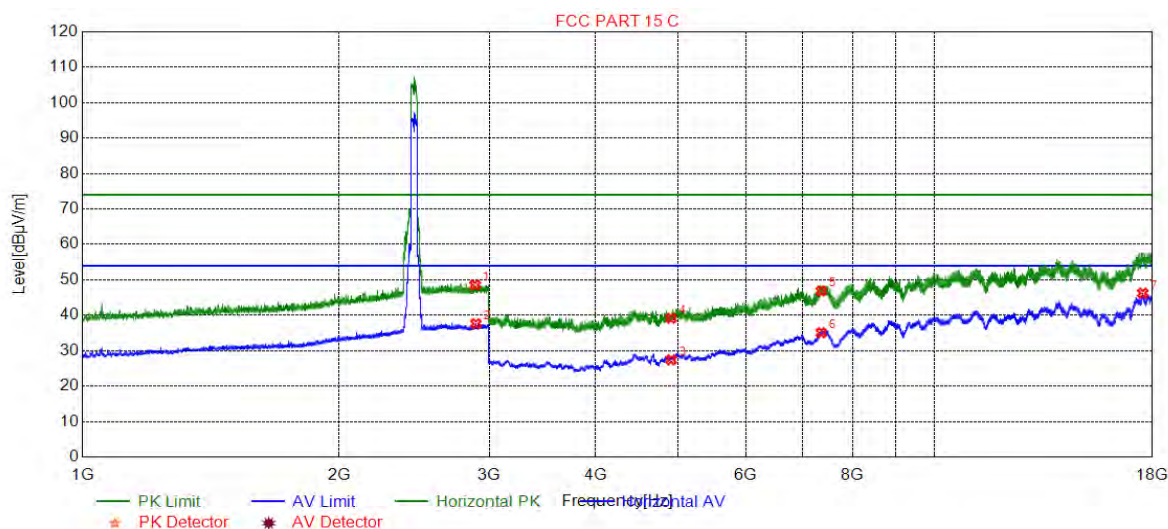
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2915.9790	49.00	2.27	74.00	25.00	150	343	Horizontal
2	2989.4974	37.63	2.32	54.00	16.37	150	139	Horizontal
3	4844.0000	28.10	-19.80	54.00	25.90	150	225	Horizontal
4	4844.0000	39.71	-19.80	74.00	34.29	150	18	Horizontal
5	7266.0000	44.25	-12.03	74.00	29.75	150	289	Horizontal
6	7266.0000	33.04	-12.03	54.00	20.96	150	338	Horizontal
7	17802.490	46.43	-0.78	54.00	7.57	150	2	Horizontal



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4.1.2.3.11 802.11N40_MIMO_Middle Channel_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2887.9720	48.55	2.25	74.00	25.45	150	216	Horizontal
2	2894.4736	37.67	2.25	54.00	16.33	150	122	Horizontal
3	4904.0000	27.43	-18.98	54.00	26.57	150	248	Horizontal
4	4904.0000	39.15	-18.98	74.00	34.85	150	50	Horizontal
5	7356.0000	46.84	-11.03	74.00	27.16	150	248	Horizontal
6	7356.0000	35.09	-11.03	54.00	18.91	150	360	Horizontal
7	17533.976	46.24	0.78	54.00	7.76	150	55	Horizontal



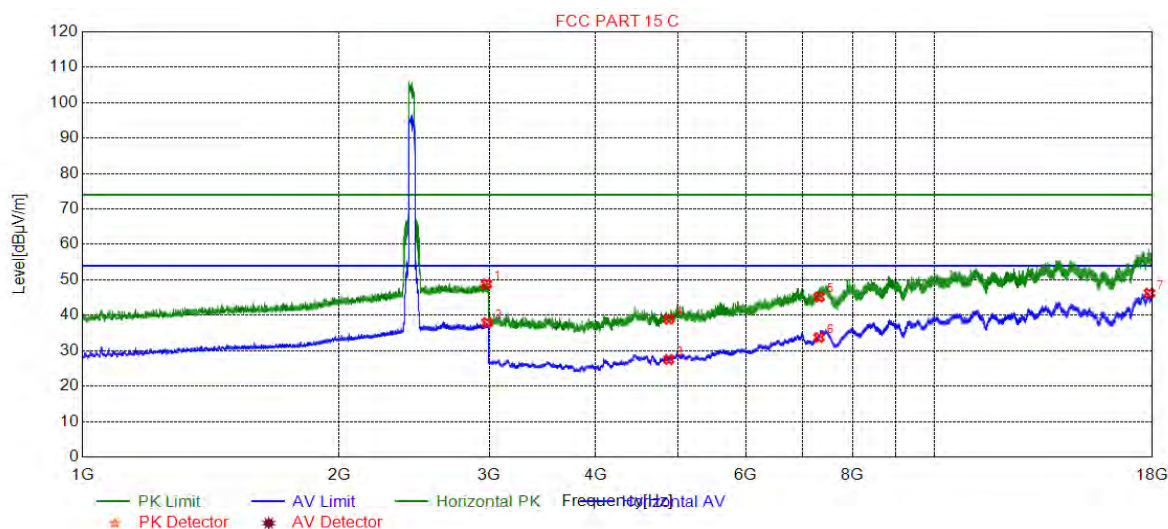
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4.1.2.3.12 802.11N40_MIMO_Highest Channel_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2978.4946	48.83	2.31	74.00	25.17	150	311	Horizontal
2	2983.4959	37.93	2.32	54.00	16.07	150	13	Horizontal
3	4874.0000	27.54	-19.37	54.00	26.46	150	278	Horizontal
4	4874.0000	38.92	-19.37	74.00	35.08	150	343	Horizontal
5	7311.0000	45.19	-11.50	74.00	28.81	150	311	Horizontal
6	7311.0000	33.74	-11.50	54.00	20.26	150	294	Horizontal
7	17851.992	46.23	-0.95	54.00	7.77	150	256	Horizontal

Remark:

- 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 + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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4.2 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/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 Setup:			

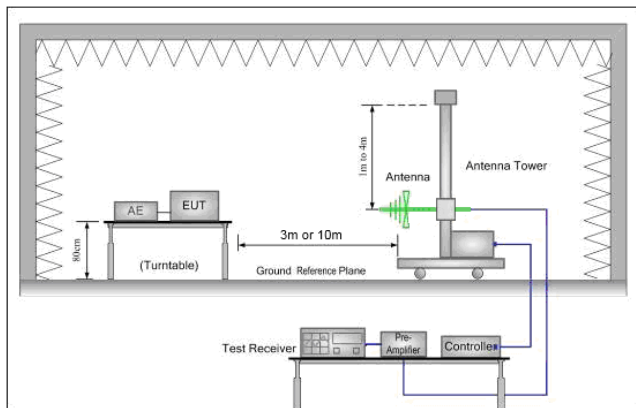


Figure 1. 30MHz to 1GHz

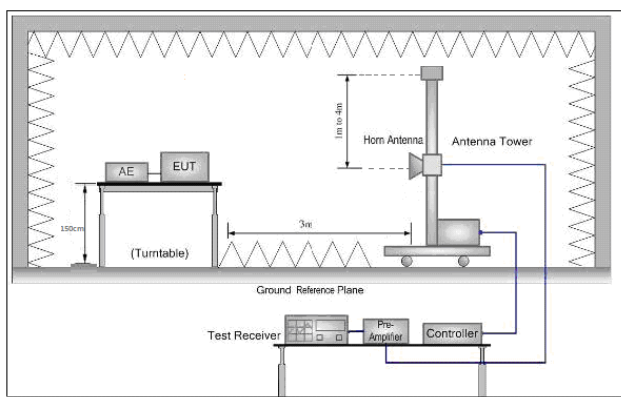


Figure 2. Above 1 GHz





Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. 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. e. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge +Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of 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). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

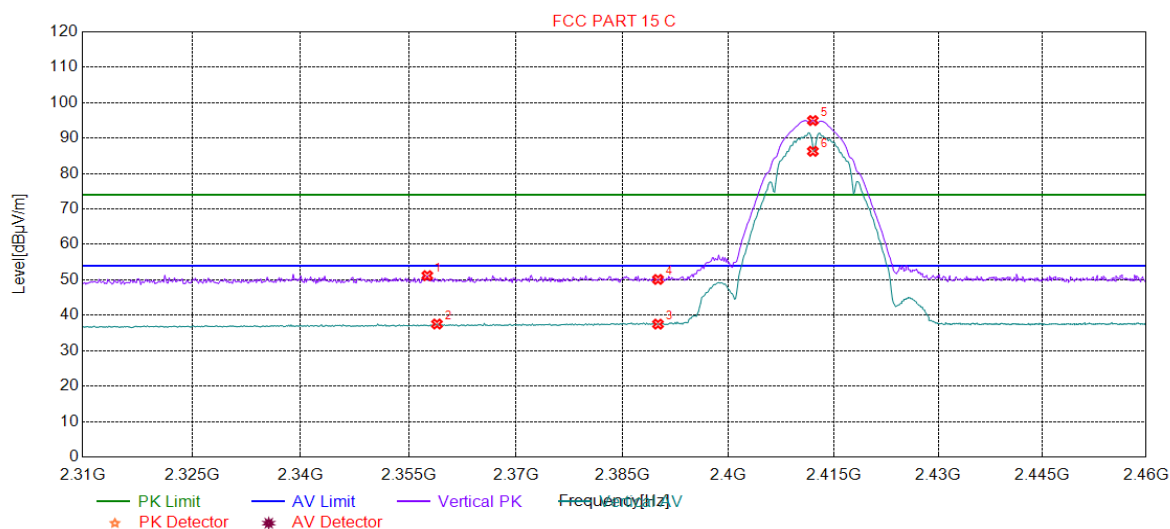




Test plot as follows:

4.2.1 ANT1

4.2.1.1 802.11B_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2357.5976	51.19	1.10	74.00	22.81	150	233	Vertical
2	2358.9489	37.54	1.11	54.00	16.46	150	192	Vertical
3	2390.0000	37.50	1.25	54.00	16.50	150	122	Vertical
4	2390.0000	50.12	1.25	74.00	23.88	150	20	Vertical
5	2412.0000	94.96	1.32	74.00	-20.96	150	255	Vertical
6	2412.0000	86.28	1.32	54.00	-32.28	150	258	Vertical

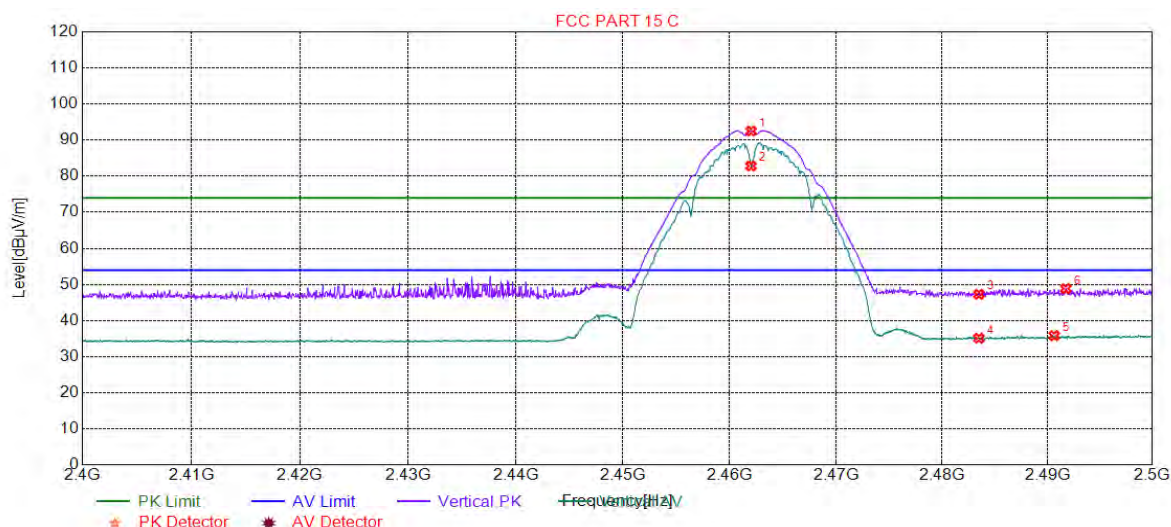


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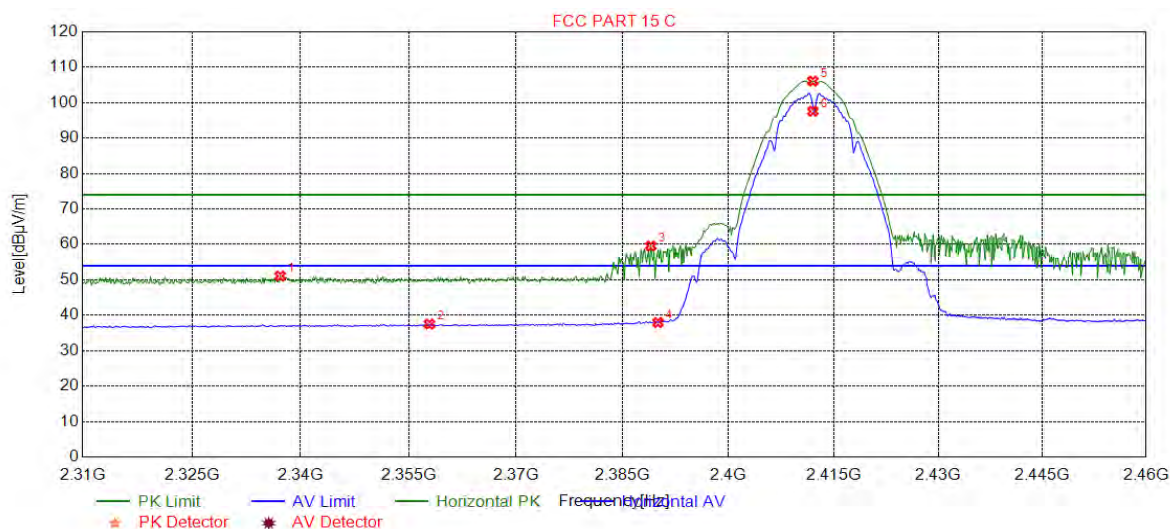
4.2.1.2 802.11B_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	92.52	1.46	74.00	-18.52	150	320	Vertical
2	2462.0000	82.83	1.46	54.00	-28.83	150	320	Vertical
3	2483.5000	47.29	1.52	74.00	26.71	150	172	Vertical
4	2483.5000	35.10	1.52	54.00	18.90	150	168	Vertical
5	2490.6453	35.81	1.54	54.00	18.19	150	168	Vertical
6	2491.7459	48.86	1.55	74.00	25.14	150	168	Vertical



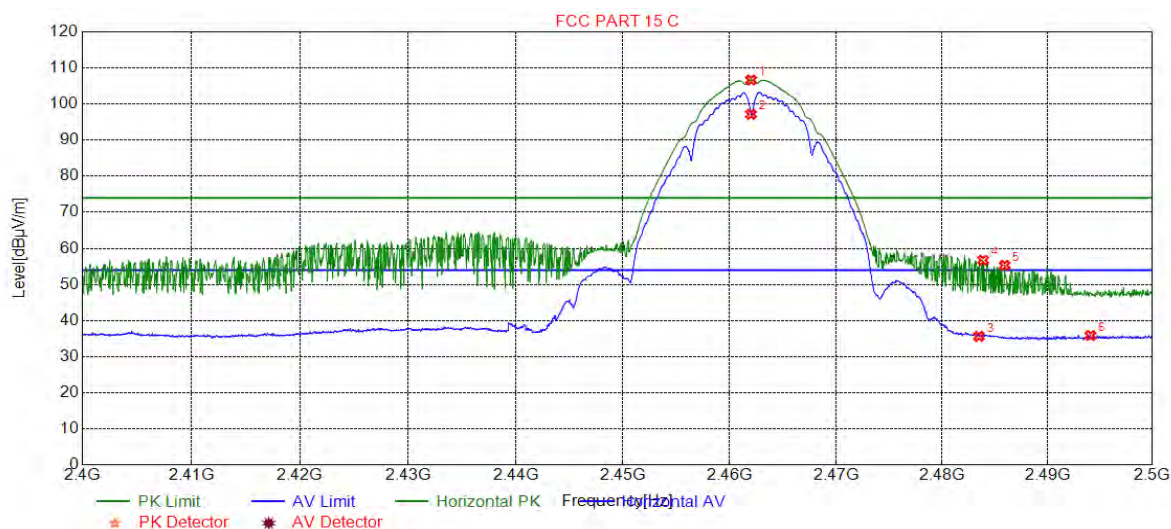
4.2.1.3 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2337.1772	51.09	1.01	74.00	22.91	150	34	Horizontal
2	2357.8979	37.52	1.10	54.00	16.48	150	144	Horizontal
3	2388.9790	59.53	1.24	74.00	14.47	150	9	Horizontal
4	2390.0000	37.96	1.25	54.00	16.04	150	3	Horizontal
5	2412.0000	106.09	1.32	74.00	-32.09	150	3	Horizontal
6	2412.0000	97.59	1.32	54.00	-43.59	150	6	Horizontal



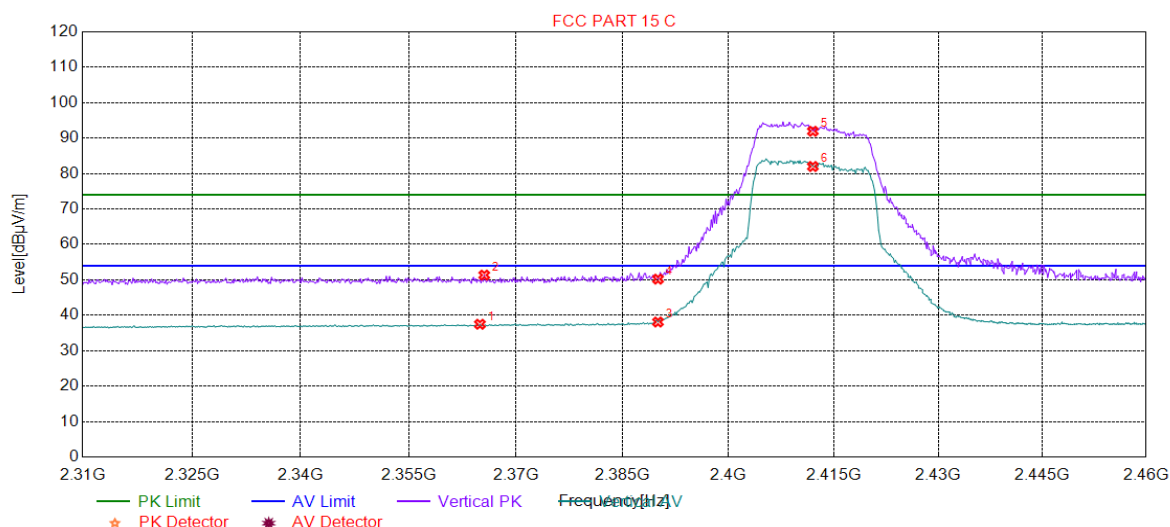
4.2.1.4 802.11B_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	106.66	1.46	74.00	-32.66	150	346	Horizontal
2	2462.0000	97.15	1.46	54.00	-43.15	150	346	Horizontal
3	2483.5000	35.64	1.52	54.00	18.36	150	346	Horizontal
4	2483.8919	56.73	1.52	74.00	17.27	150	0	Horizontal
5	2485.9430	55.32	1.53	74.00	18.68	150	346	Horizontal
6	2494.0970	35.86	1.55	54.00	18.14	150	93	Horizontal



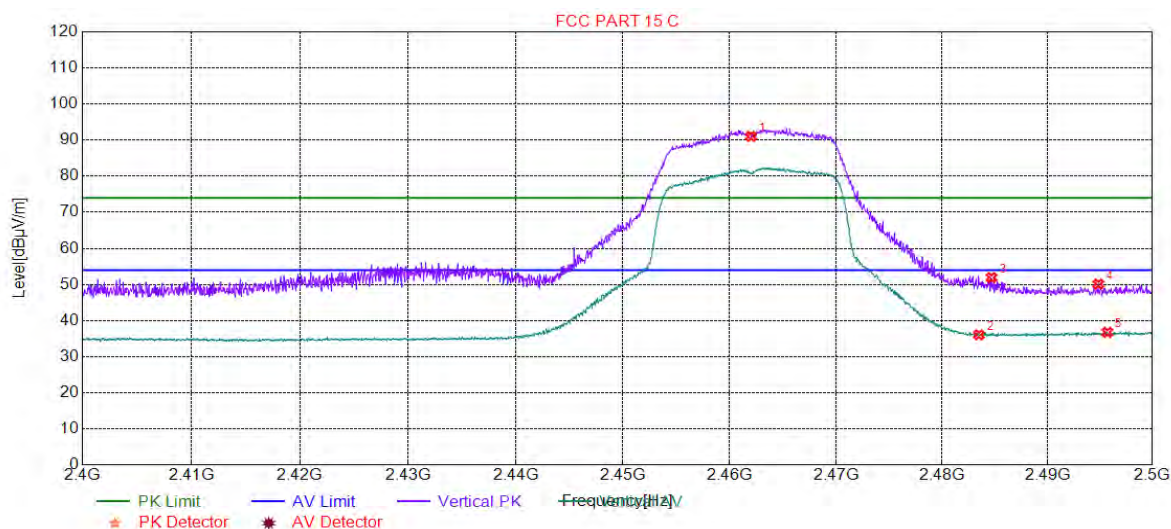
4.2.1.5 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2364.9550	37.47	1.14	54.00	16.53	150	317	Vertical
2	2365.5556	51.34	1.14	74.00	22.66	150	84	Vertical
3	2390.0000	38.10	1.25	54.00	15.90	150	317	Vertical
4	2390.0000	50.21	1.25	74.00	23.79	150	314	Vertical
5	2412.0000	91.94	1.32	74.00	-17.94	150	314	Vertical
6	2412.0000	81.99	1.32	54.00	-27.99	150	314	Vertical



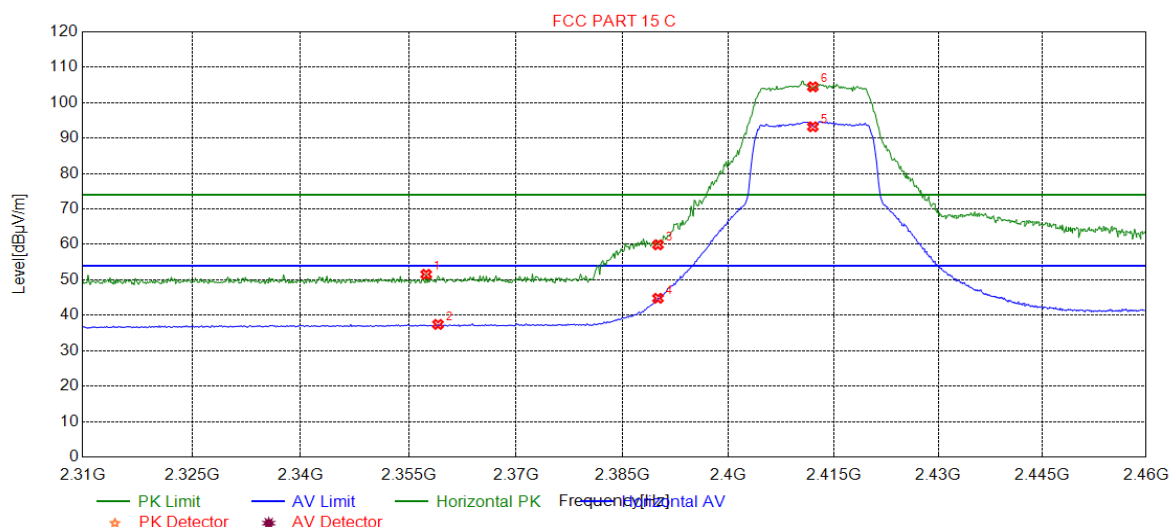
4.2.1.6 802.11G_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	91.03	1.46	74.00	-17.03	150	243	Vertical
2	2483.5000	36.06	1.52	54.00	17.94	150	108	Vertical
3	2484.6923	51.93	1.53	74.00	22.07	150	305	Vertical
4	2494.8474	50.13	1.56	74.00	23.87	150	108	Vertical
5	2495.6978	36.74	1.56	54.00	17.26	150	104	Vertical



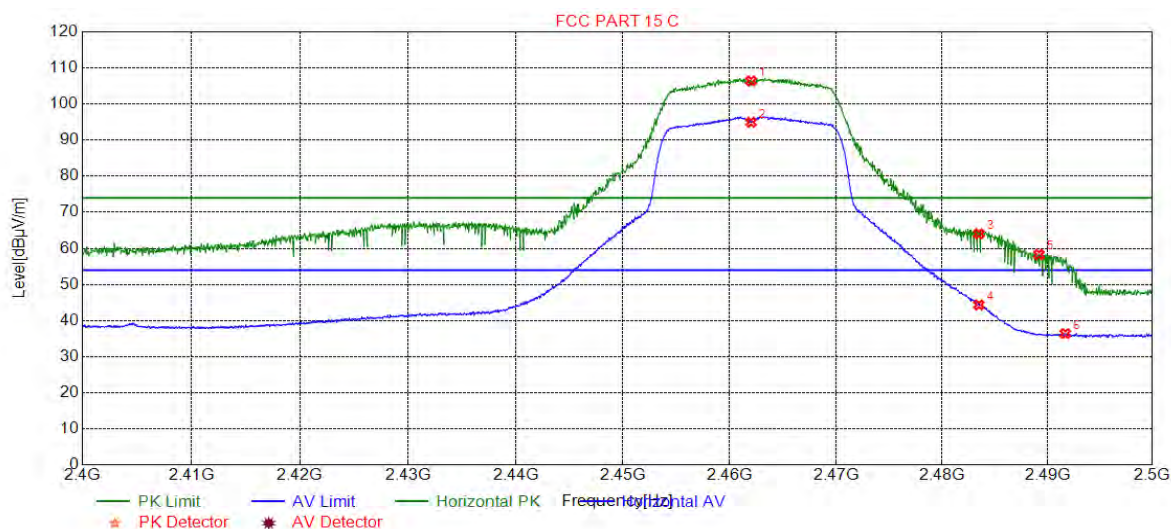
4.2.1.7 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2357.4474	51.56	1.10	74.00	22.44	150	101	Horizontal
2	2359.0991	37.43	1.11	54.00	16.57	150	207	Horizontal
3	2390.0000	59.89	1.25	74.00	14.11	150	0	Horizontal
4	2390.0000	44.80	1.25	54.00	9.20	150	346	Horizontal
5	2412.0000	93.20	1.32	54.00	-39.20	150	0	Horizontal
6	2412.0000	104.48	1.32	74.00	-30.48	150	346	Horizontal



4.2.1.8 802.11G_ Highest Channel_ Horizontal

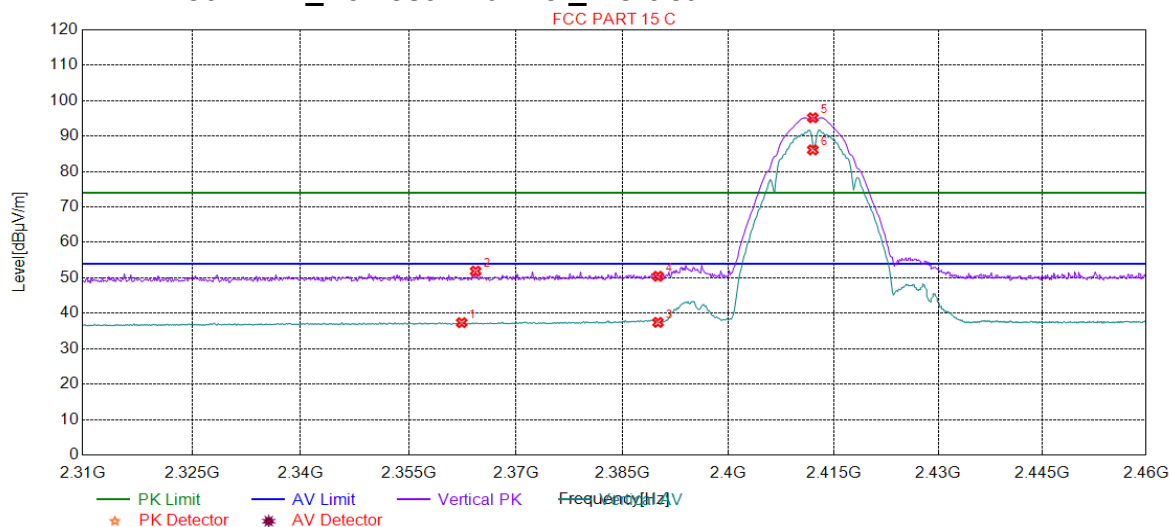


Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	106.39	1.46	74.00	-32.39	150	2	Horizontal
2	2462.0000	94.92	1.46	54.00	-40.92	150	0	Horizontal
3	2483.5000	64.05	1.52	74.00	9.95	150	9	Horizontal
4	2483.5000	44.33	1.52	54.00	9.67	150	0	Horizontal
5	2489.1946	58.32	1.54	74.00	15.68	150	9	Horizontal
6	2491.6958	36.41	1.55	54.00	17.59	150	129	Horizontal



4.2.2 ANT2

4.2.2.1 802.11B_Lowest Channel_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2362.4024	37.36	1.12	54.00	16.64	150	110	Vertical
2	2364.3544	51.90	1.13	74.00	22.10	150	116	Vertical
3	2390.0000	37.44	1.25	54.00	16.56	150	195	Vertical
4	2390.0000	50.45	1.25	54.00	3.55	150	107	Vertical
5	2412.0000	95.20	1.32	54.00	-41.20	150	185	Vertical
6	2412.0000	86.13	1.32	54.00	-32.13	150	185	Vertical

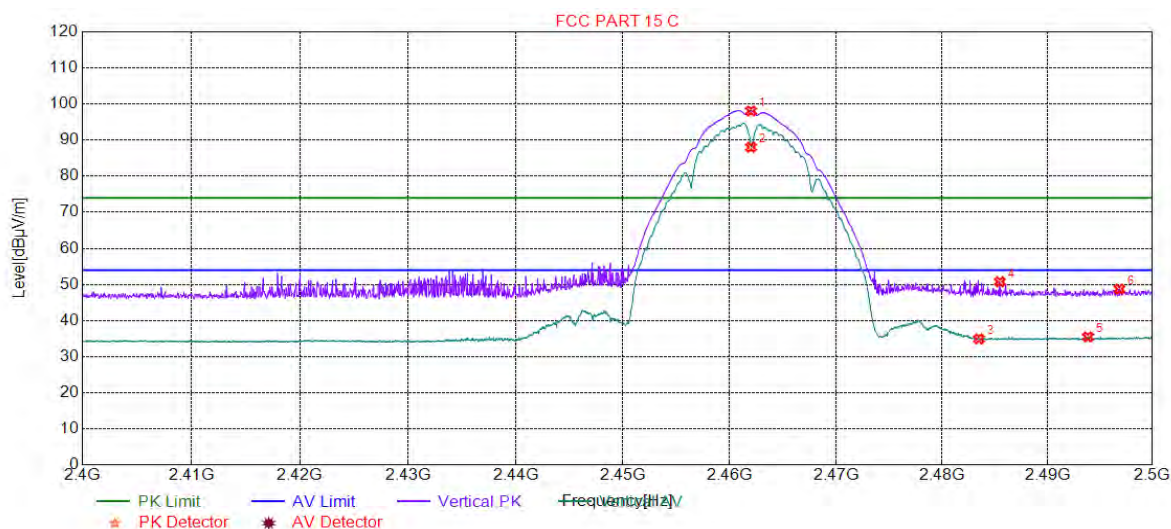


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4.2.2.2 802.11B_ Highest Channel_ Vertical

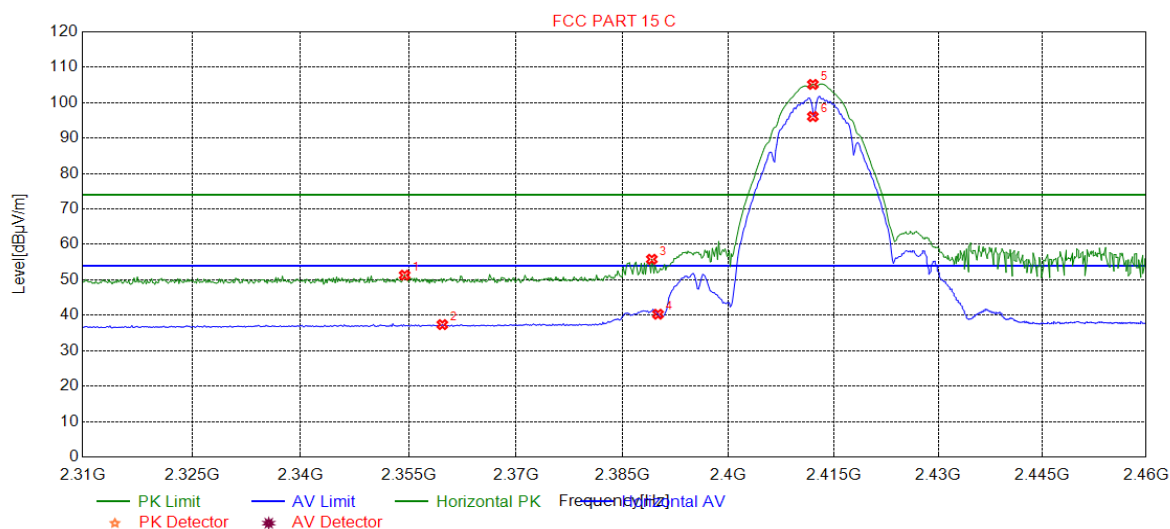


Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	98.08	1.46	74.00	-24.08	150	218	Vertical
2	2462.0000	88.03	1.46	54.00	-34.03	150	214	Vertical
3	2483.5000	34.91	1.52	54.00	19.09	150	218	Vertical
4	2485.4927	50.74	1.53	74.00	23.26	150	214	Vertical
5	2493.8469	35.47	1.55	54.00	18.53	150	192	Vertical
6	2496.8484	48.72	1.56	74.00	25.28	150	28	Vertical





4.2.2.3 802.11B_Lowest Channel_ Horizontal

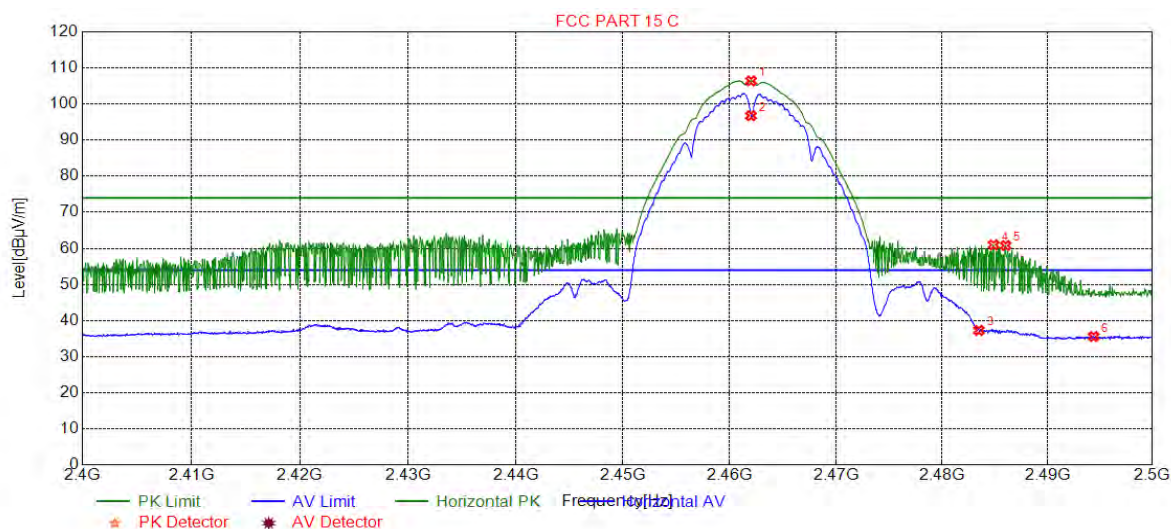


Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2354.4444	51.32	1.09	74.00	22.68	150	165	Horizontal
2	2359.6997	37.37	1.11	54.00	16.63	150	88	Horizontal
3	2389.1291	55.82	1.24	74.00	18.18	150	342	Horizontal
4	2390.0000	40.30	1.25	54.00	13.70	150	342	Horizontal
5	2412.0000	105.16	1.32	74.00	-31.16	150	342	Horizontal
6	2412.0000	96.08	1.32	54.00	-42.08	150	20	Horizontal



4.2.2.4

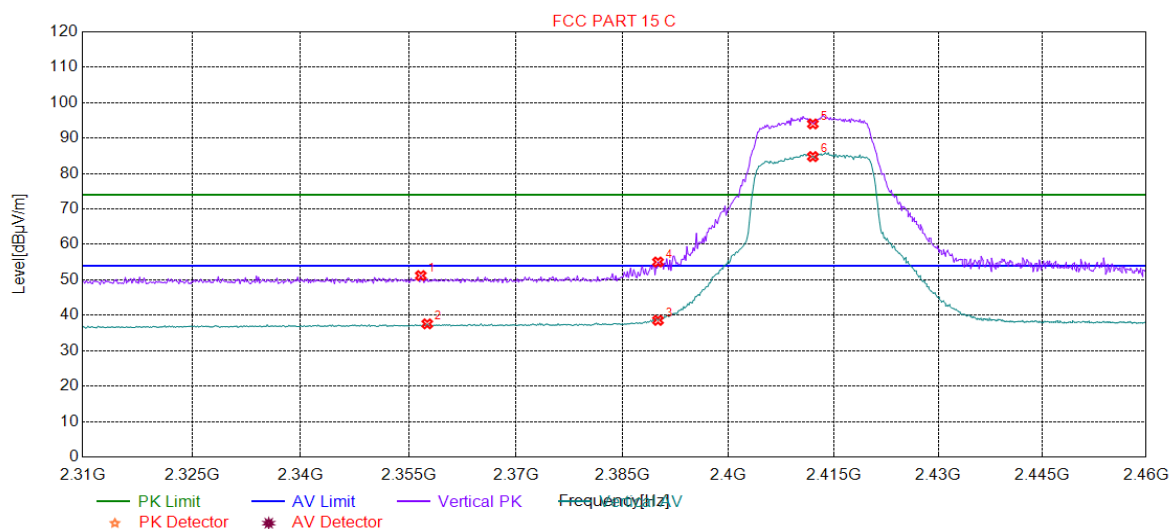
802.11B_Highest Channel_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	106.40	1.46	74.00	-32.40	150	346	Horizontal
2	2462.0000	96.74	1.46	54.00	-42.74	150	346	Horizontal
3	2483.5000	37.28	1.52	54.00	16.72	150	346	Horizontal
4	2484.8924	60.98	1.53	74.00	13.02	150	346	Horizontal
5	2486.0430	60.80	1.53	74.00	13.20	150	342	Horizontal
6	2494.3972	35.58	1.55	54.00	18.42	150	100	Horizontal



4.2.2.5 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2356.6967	51.20	1.10	74.00	22.80	150	259	Vertical
2	2357.5976	37.58	1.10	54.00	16.42	150	104	Vertical
3	2390.0000	38.57	1.25	54.00	15.43	150	170	Vertical
4	2390.0000	55.04	1.25	74.00	18.96	150	170	Vertical
5	2412.0000	94.01	1.32	74.00	-20.01	150	167	Vertical
6	2412.0000	84.79	1.32	54.00	-30.79	150	167	Vertical

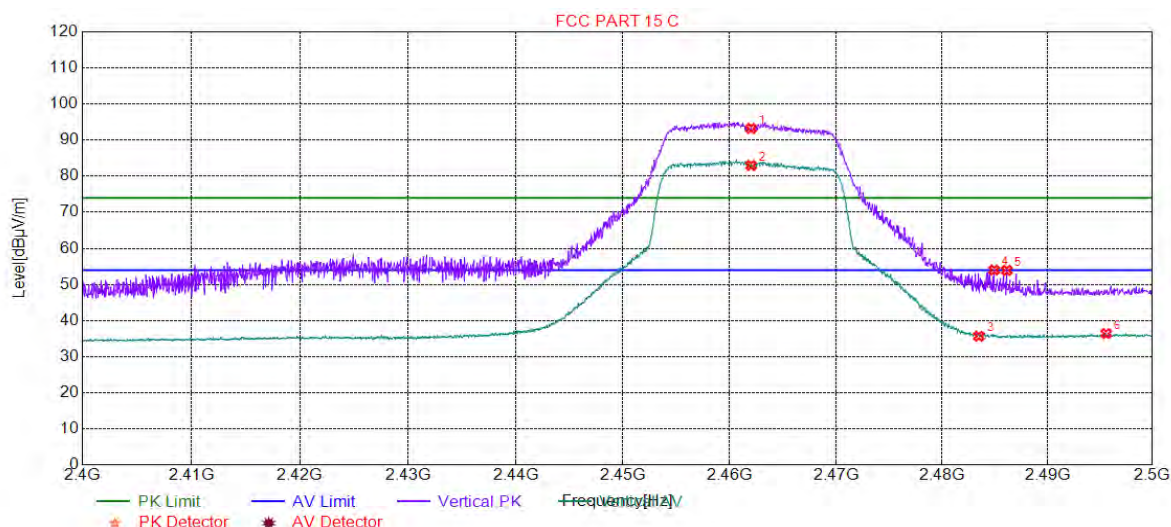


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4.2.2.6 802.11G_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	93.24	1.46	74.00	-19.24	150	183	Vertical
2	2462.0000	82.98	1.46	54.00	-28.98	150	171	Vertical
3	2483.5000	35.67	1.52	54.00	18.33	150	179	Vertical
4	2484.9425	54.01	1.53	74.00	19.99	150	175	Vertical
5	2486.1431	53.90	1.53	74.00	20.10	150	175	Vertical
6	2495.5978	36.40	1.56	54.00	17.60	150	102	Vertical



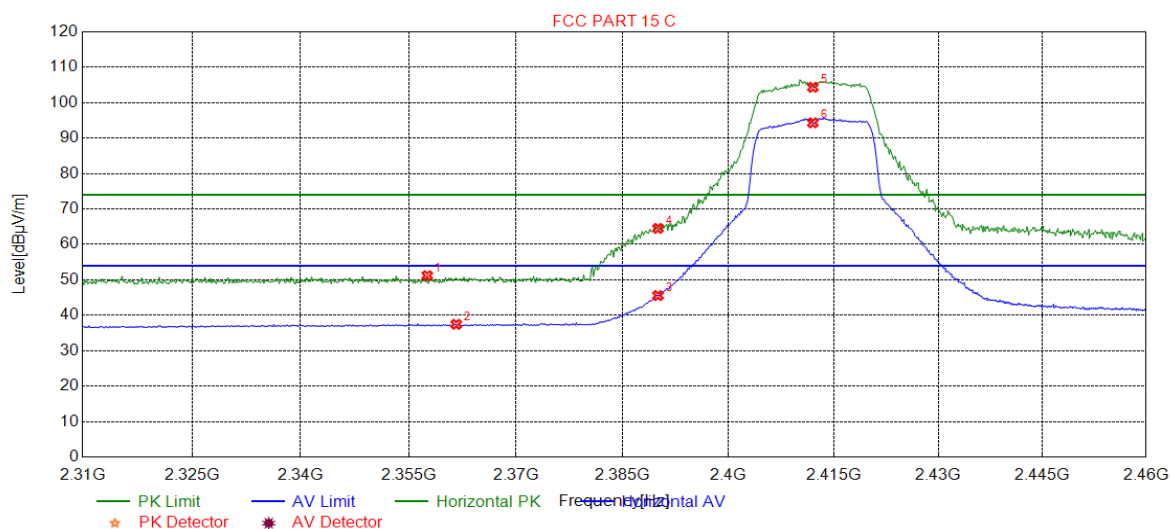
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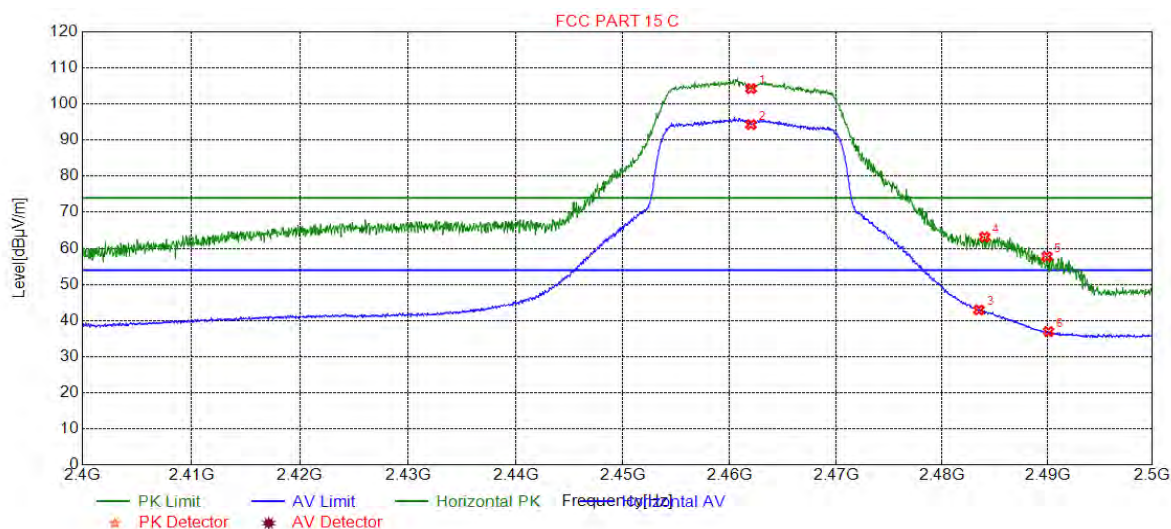
4.2.2.7 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2357.5976	51.19	1.10	74.00	22.81	150	254	Horizontal
2	2361.6517	37.45	1.12	54.00	16.55	150	89	Horizontal
3	2390.0000	45.57	1.25	54.00	8.43	150	2	Horizontal
4	2390.0000	64.52	1.25	74.00	9.48	150	2	Horizontal
5	2412.0000	104.34	1.32	74.00	-30.34	150	0	Horizontal
6	2412.0000	94.31	1.32	54.00	-40.31	150	0	Horizontal



4.2.2.8 802.11G_ Highest Channel_ Horizontal



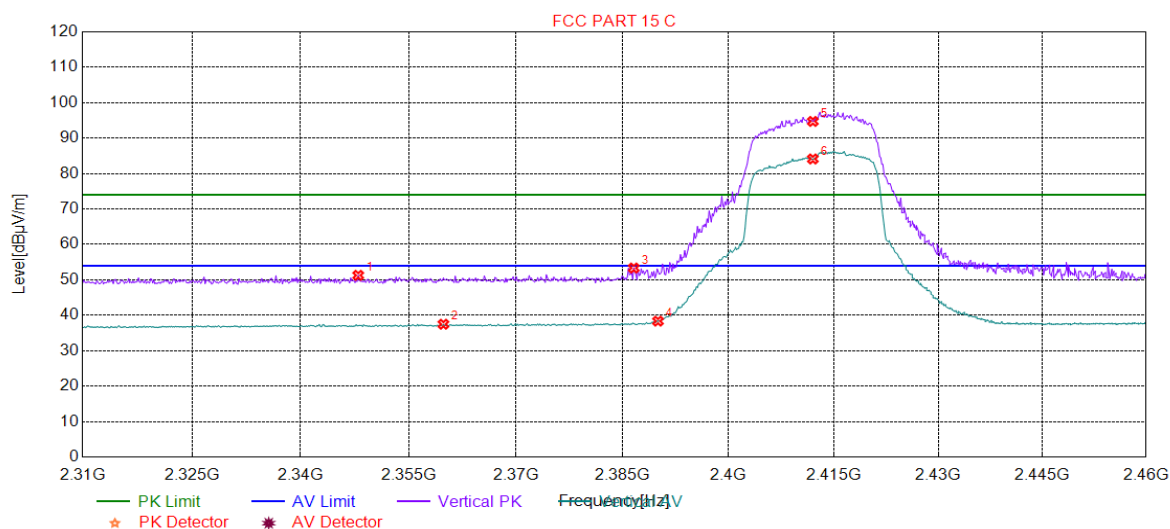
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	104.26	1.46	74.00	-30.26	150	25	Horizontal
2	2462.0000	94.30	1.46	54.00	-40.30	150	14	Horizontal
3	2483.5000	42.95	1.52	54.00	11.05	150	25	Horizontal
4	2484.0420	63.15	1.53	74.00	10.85	150	22	Horizontal
5	2489.9450	57.73	1.54	74.00	16.27	150	22	Horizontal
6	2490.0950	36.97	1.54	54.00	17.03	150	10	Horizontal





4.2.3 MIMO

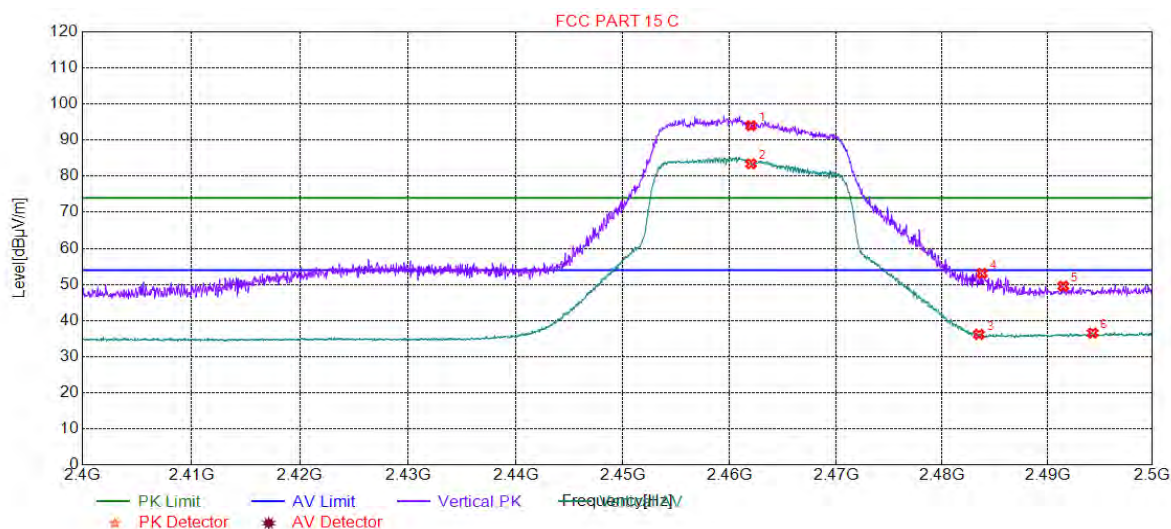
4.2.3.1 802.11N20_MIMO_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2347.9880	51.28	1.06	74.00	22.72	150	232	Vertical
2	2359.8499	37.48	1.11	54.00	16.52	150	197	Vertical
3	2386.5766	53.34	1.23	74.00	20.66	150	185	Vertical
4	2390.0000	38.35	1.25	54.00	15.65	150	317	Vertical
5	2412.0000	94.72	1.32	74.00	-20.72	150	185	Vertical
6	2412.0000	84.12	1.32	54.00	-30.12	150	182	Vertical



4.2.3.2 802.11N20_MIMO_Highest Channel_Vertical



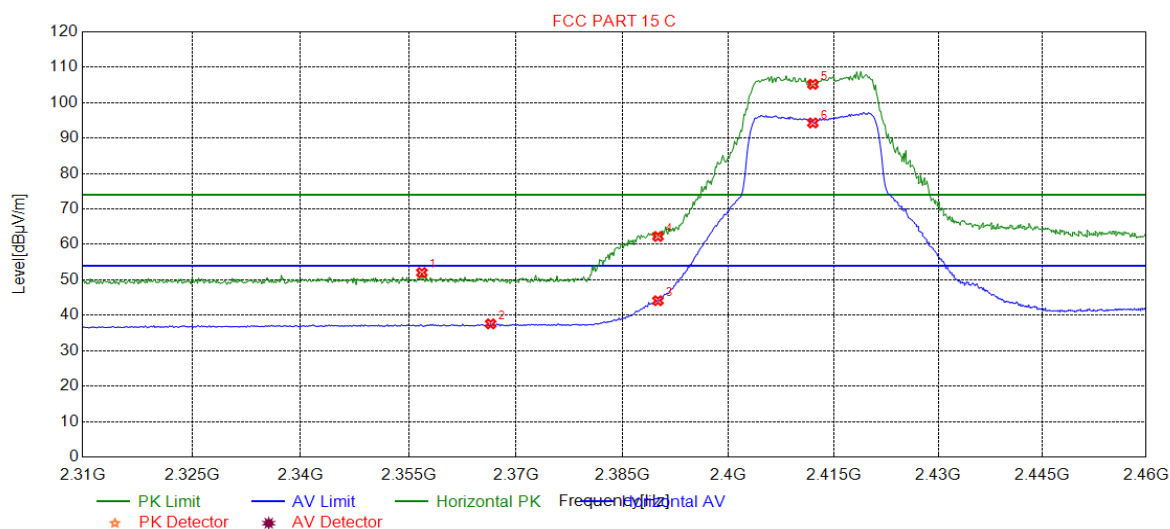
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	93.99	1.46	74.00	-19.99	150	165	Vertical
2	2462.0000	83.44	1.46	54.00	-29.44	150	161	Vertical
3	2483.5000	36.19	1.52	54.00	17.81	150	158	Vertical
4	2483.7919	53.07	1.52	74.00	20.93	150	161	Vertical
5	2491.4957	49.56	1.55	74.00	24.44	150	112	Vertical
6	2494.2971	36.54	1.55	54.00	17.46	150	108	Vertical





4.2.3.3

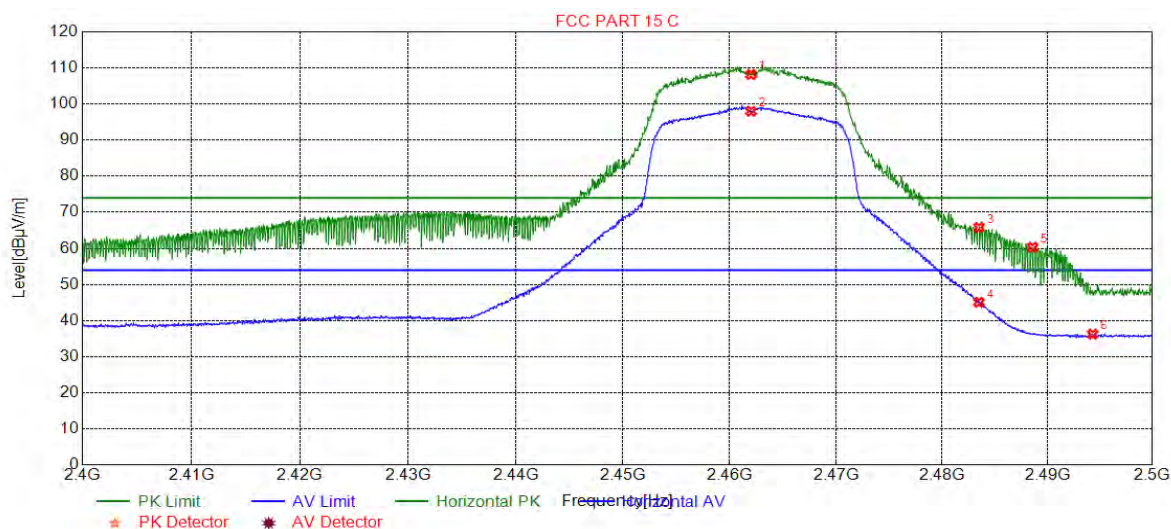
802.11N20_MIMO_Lowest Channel_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2356.8468	52.05	1.10	74.00	21.95	150	32	Horizontal
2	2366.4565	37.58	1.14	54.00	16.42	150	147	Horizontal
3	2390.0000	44.12	1.25	54.00	9.88	150	23	Horizontal
4	2390.0000	62.24	1.25	74.00	11.76	150	297	Horizontal
5	2412.0000	105.19	1.32	74.00	-31.19	150	346	Horizontal
6	2412.0000	94.29	1.32	54.00	-40.29	150	346	Horizontal



4.2.3.4 802.11N20_MIMO_Highest Channel_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	108.18	1.46	74.00	-34.18	150	6	Horizontal
2	2462.0000	98.01	1.46	54.00	-44.01	150	10	Horizontal
3	2483.5000	65.80	1.52	74.00	8.20	150	6	Horizontal
4	2483.5000	45.05	1.52	54.00	8.95	150	25	Horizontal
5	2488.5943	60.32	1.54	74.00	13.68	150	6	Horizontal
6	2494.2971	36.24	1.55	54.00	17.76	150	124	Horizontal



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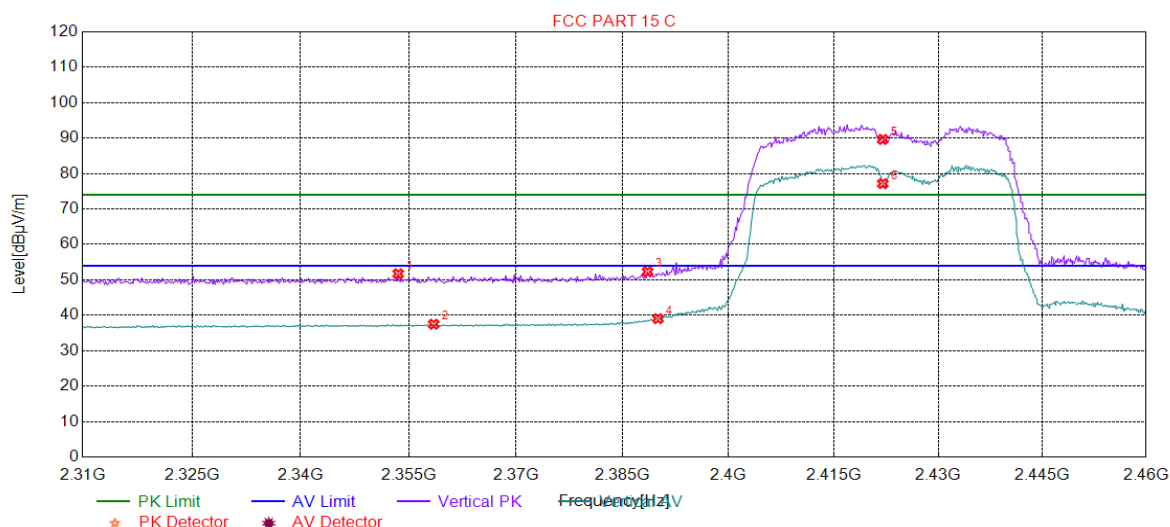
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4.2.3.5

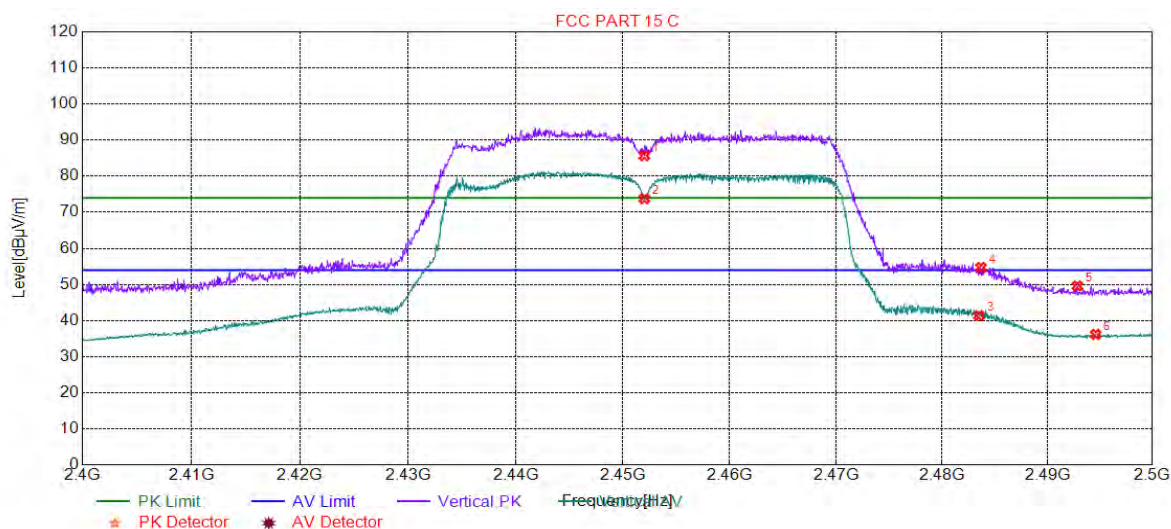
802.11N40_MIMO_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2353.5435	51.72	1.09	74.00	22.28	150	210	Vertical
2	2358.4985	37.48	1.11	54.00	16.52	150	107	Vertical
3	2388.5285	52.31	1.24	74.00	21.69	150	269	Vertical
4	2390.0000	39.05	1.25	54.00	14.95	150	322	Vertical
5	2422.0000	89.63	1.35	74.00	-15.63	150	220	Vertical
6	2422.0000	77.16	1.35	54.00	-23.16	150	216	Vertical



4.2.3.6 802.11N40_MIMO_Highest Channel_Vertical



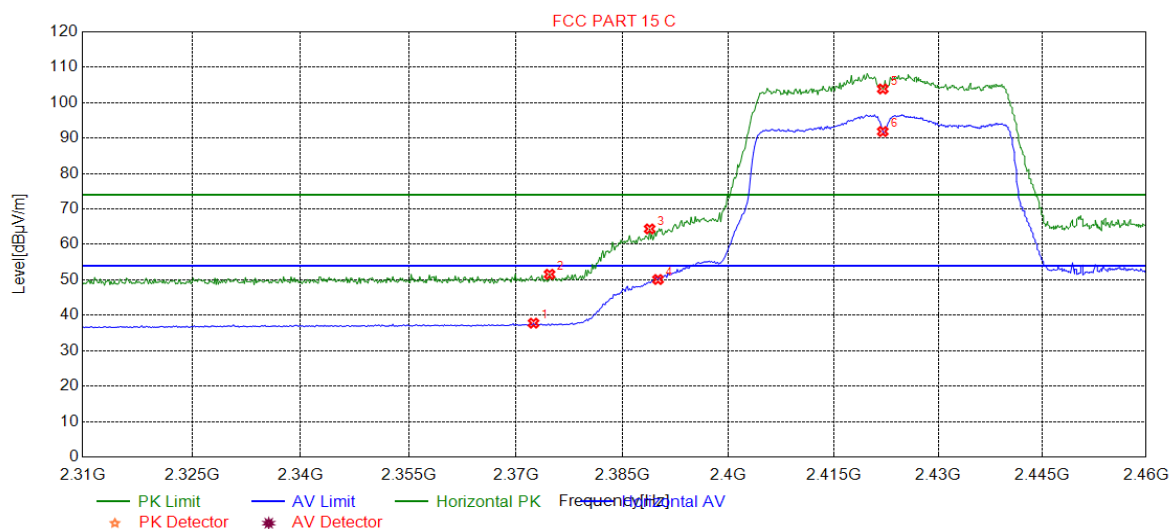
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	85.69	1.44	74.00	-11.69	150	328	Vertical
2	2452.0000	73.77	1.44	54.00	-19.77	150	198	Vertical
3	2483.5000	41.39	1.52	54.00	12.61	150	214	Vertical
4	2483.6918	54.69	1.52	74.00	19.31	150	162	Vertical
5	2492.8464	49.60	1.55	74.00	24.40	150	214	Vertical
6	2494.5973	36.17	1.55	54.00	17.83	150	98	Vertical





4.2.3.7

802.11N40_MIMO_Lowest Channel_Horizontal

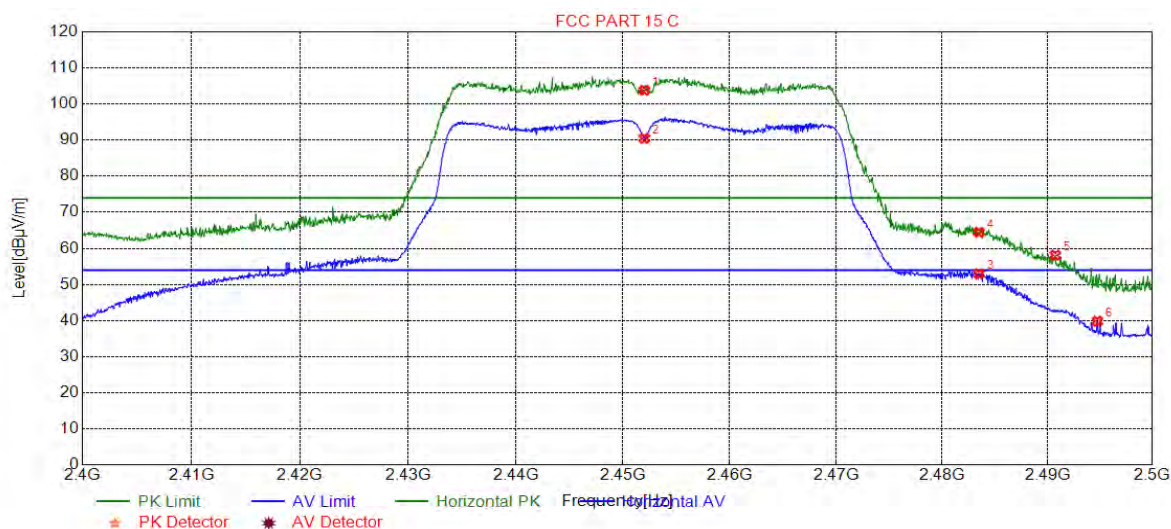


Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.4625	37.78	1.17	54.00	16.22	150	87	Horizontal
2	2374.7147	51.58	1.18	74.00	22.42	150	192	Horizontal
3	2388.8288	64.38	1.24	74.00	9.62	150	343	Horizontal
4	2390.0000	50.10	1.25	54.00	3.90	150	346	Horizontal
5	2422.0000	103.88	1.35	74.00	-29.88	150	2	Horizontal
6	2422.0000	91.86	1.35	54.00	-37.86	150	2	Horizontal





4.2.3.8 802.11N40_MIMO_Highest Channel_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	103.80	1.44	74.00	-29.80	150	1	Horizontal
2	2452.0000	90.47	1.44	54.00	-36.47	150	0	Horizontal
3	2483.5000	52.92	1.52	54.00	1.08	150	346	Horizontal
4	2483.5000	64.48	1.52	74.00	9.52	150	294	Horizontal
5	2490.7454	58.13	1.54	74.00	15.87	150	7	Horizontal
6	2494.7474	39.84	1.56	54.00	14.16	150	0	Horizontal

Remark:

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 + Antenna Factor + Cable Factor – Preamplifier Factor

All Modes have been tested, but only the worst case data displayed in this report.





5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	RF power density, conducted	$\pm 2.84\text{dB}$
3	Spurious emissions, conducted	$\pm 0.75\text{dB}$
4	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-25GHz)
5	Conduct emission test	$\pm 3.12\text{ dB}$ (9KHz- 30MHz)
6	Temperature test	$\pm 1^{\circ}\text{C}$
7	Humidity test	$\pm 3\%$
8	DC and low frequency voltages	$\pm 0.5\%$



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6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/4/1	2020/3/31
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1
RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2018/9/15	2019/9/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019/6/12	2020/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/12	2020/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/27	2019/9/27
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019/3/2	2020/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2018/3/15	2020/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2019/3/12	2020/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019/6/12	2020/6/11

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for ZR/2019/40030.

The End



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