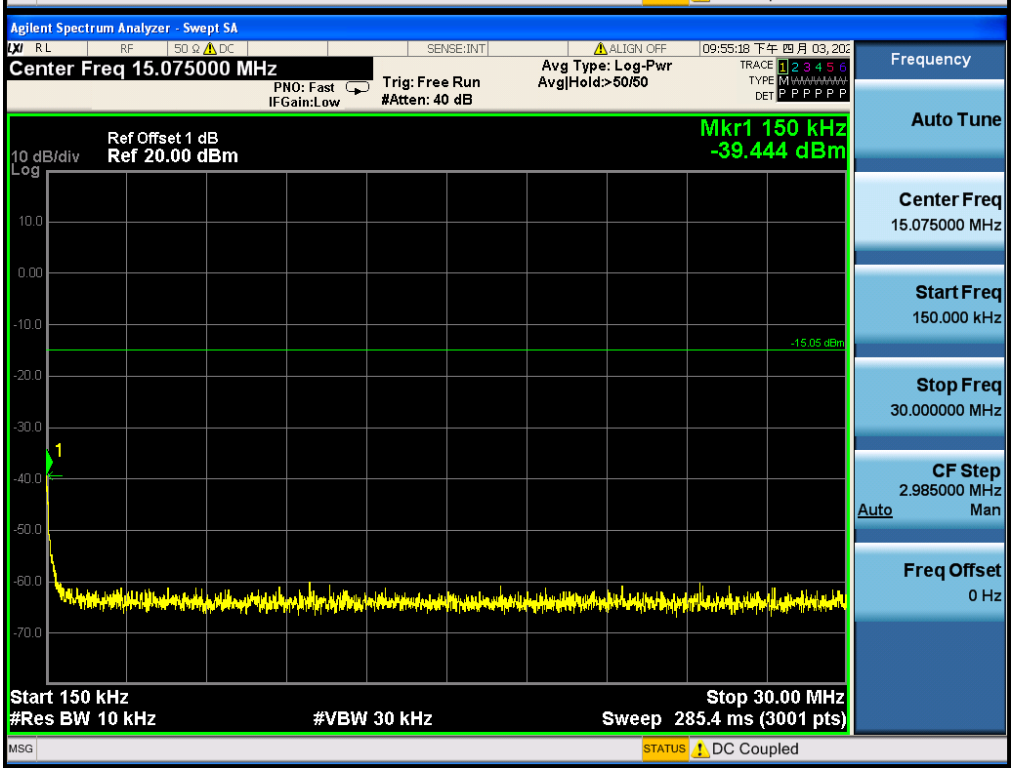

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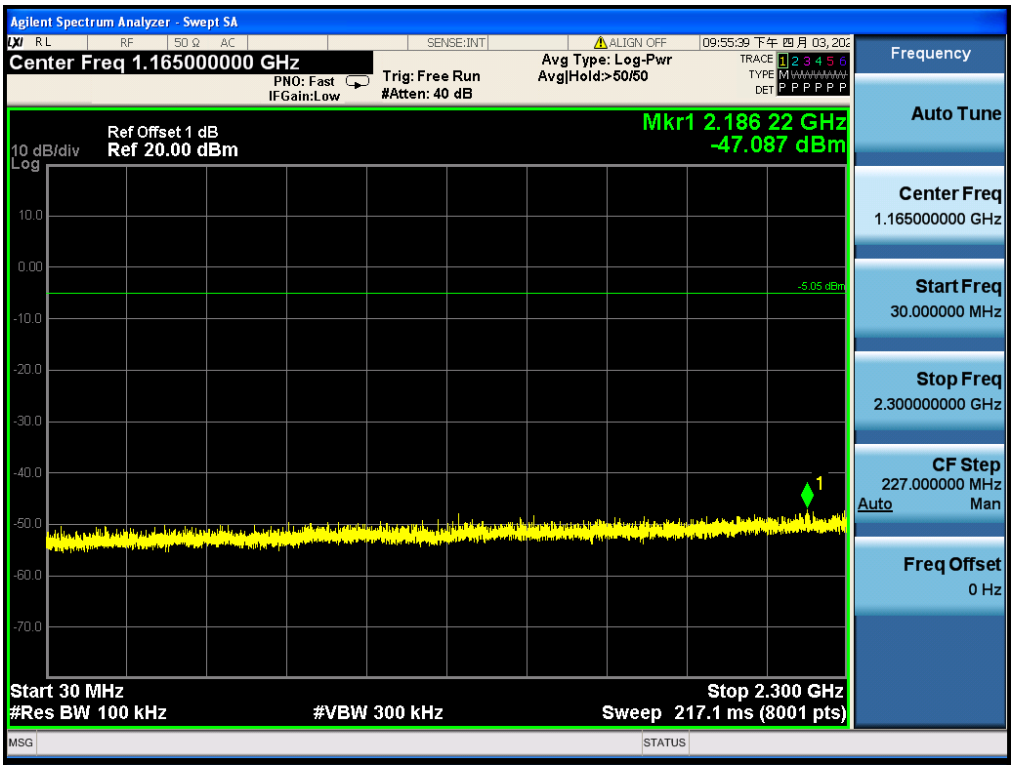

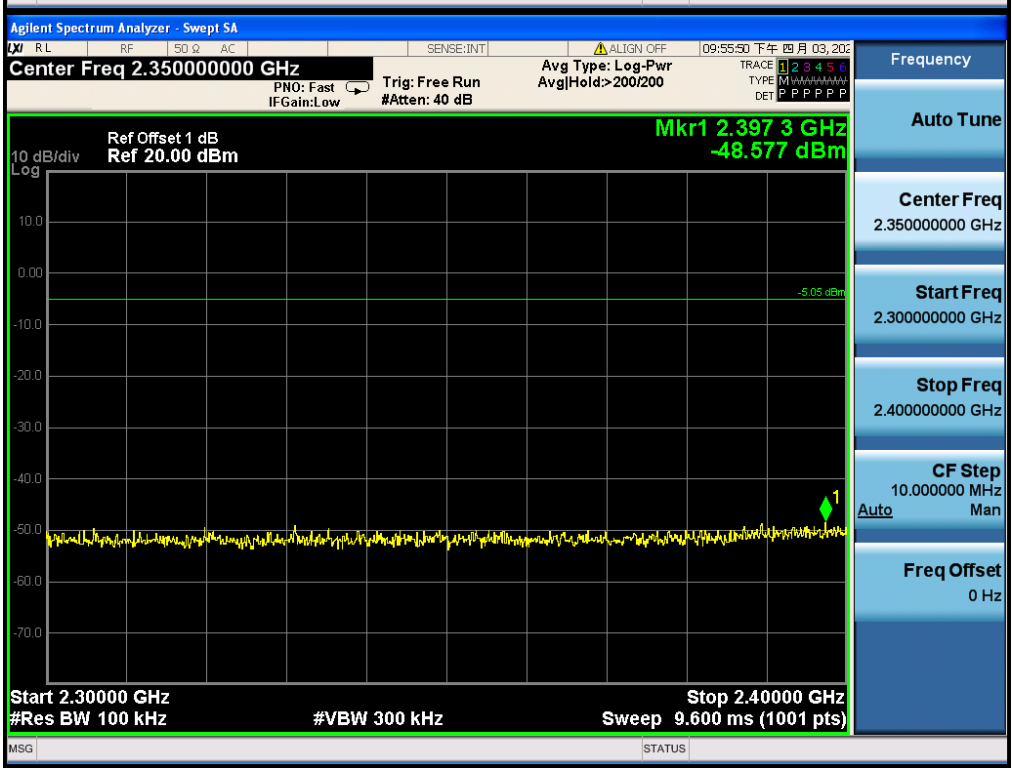

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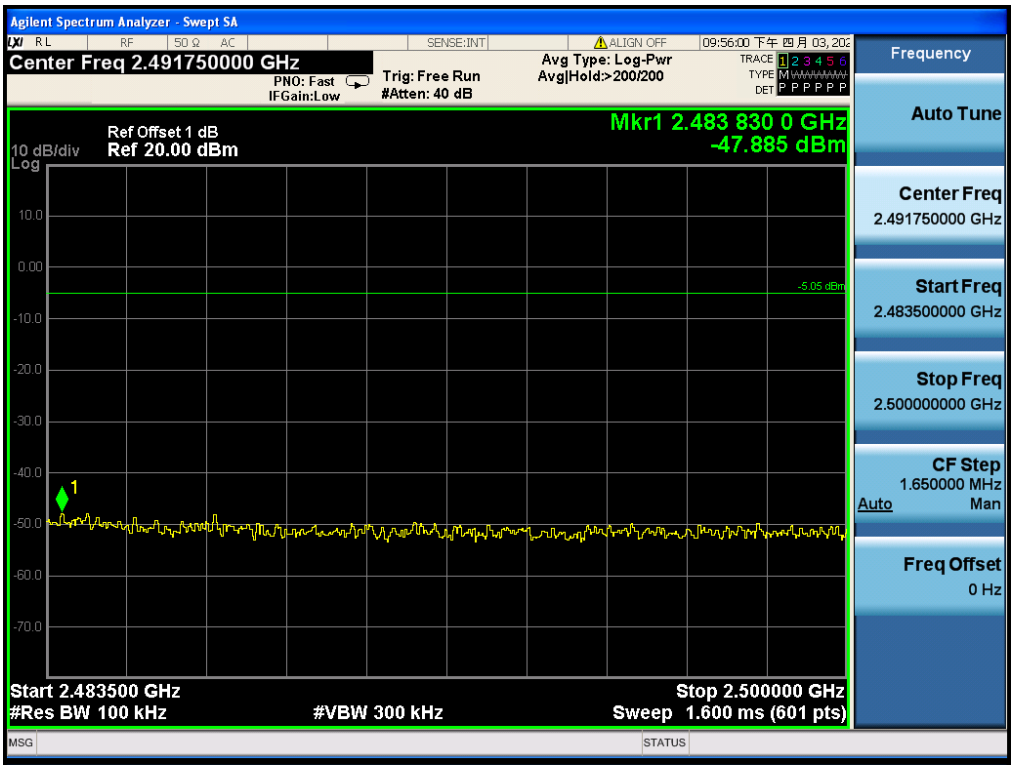

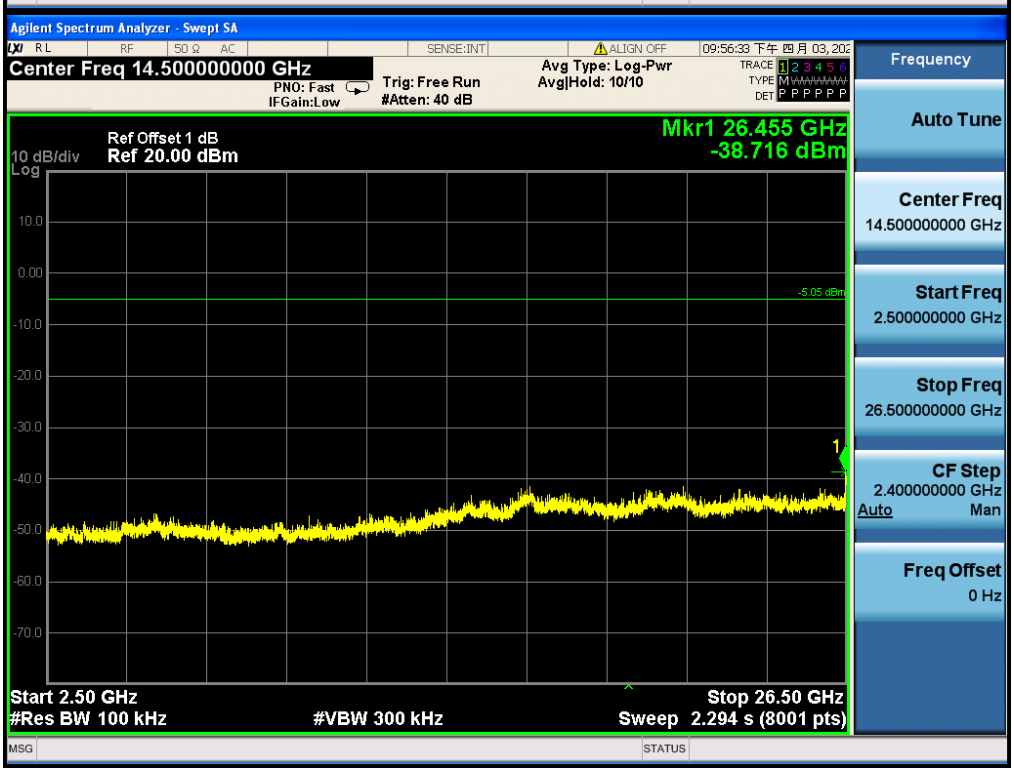

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Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz 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.

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4.9 Radiated Spurious Emissions

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)				
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	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/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
	Remark: 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.				

Test Setup:	

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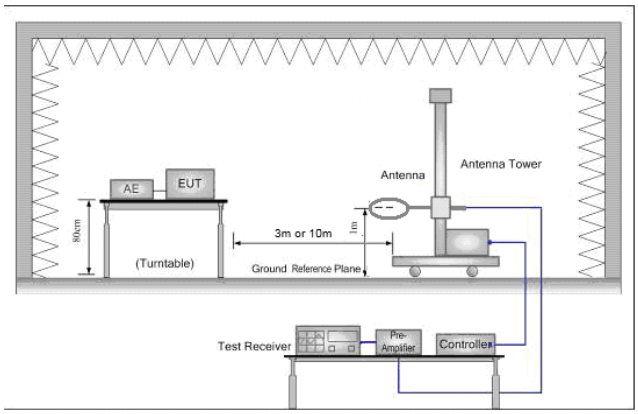

Figure 1. Below 30MHz

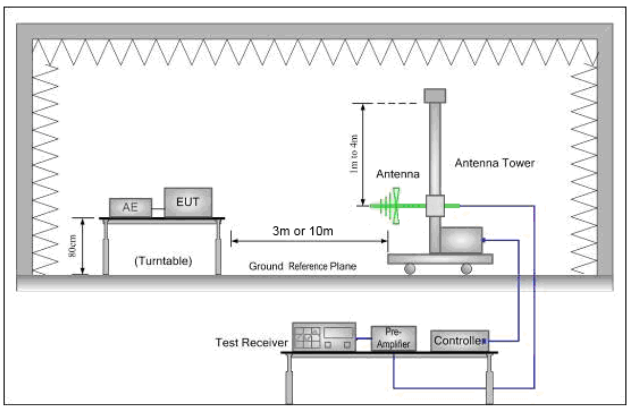

Figure 2. 30MHz to 1GHz

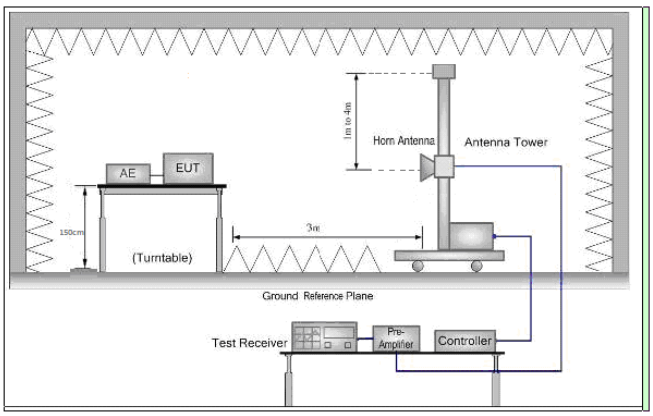

Figure 3. Above 1 GHz

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. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW ⩾ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds

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	On time = N 1 *L 1 +N 2 *L 2 +...+N n-1 *LN n-1 +N n *L n Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycl f. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading. g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. h. 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. i. Test the EUT in the lowest channel, the middle channel ,the Highest channel j. 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. k. 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); For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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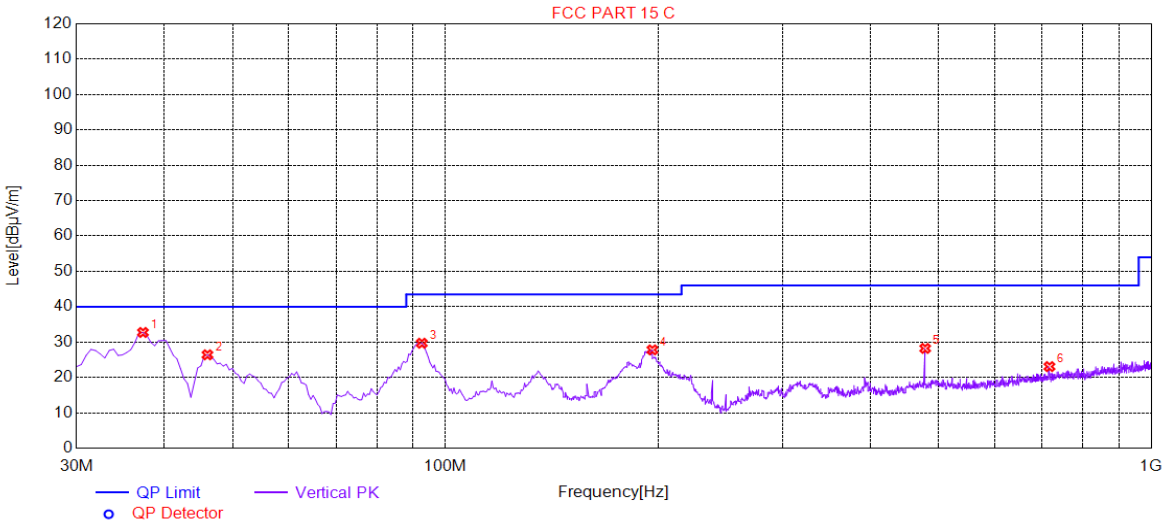
4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	32.73	-32.03	40.00	7.27	226	190	Vertical
2	46.0130	26.40	-30.20	40.00	13.60	230	249	Vertical
3	92.5963	29.68	-32.98	43.50	13.82	162	90	Vertical
4	196.438	27.80	-31.19	43.50	15.70	241	115	Vertical
5	478.364	28.21	-23.25	46.00	17.79	219	249	Vertical
6	717.588	23.07	-18.32	46.00	22.93	174	252	Vertical

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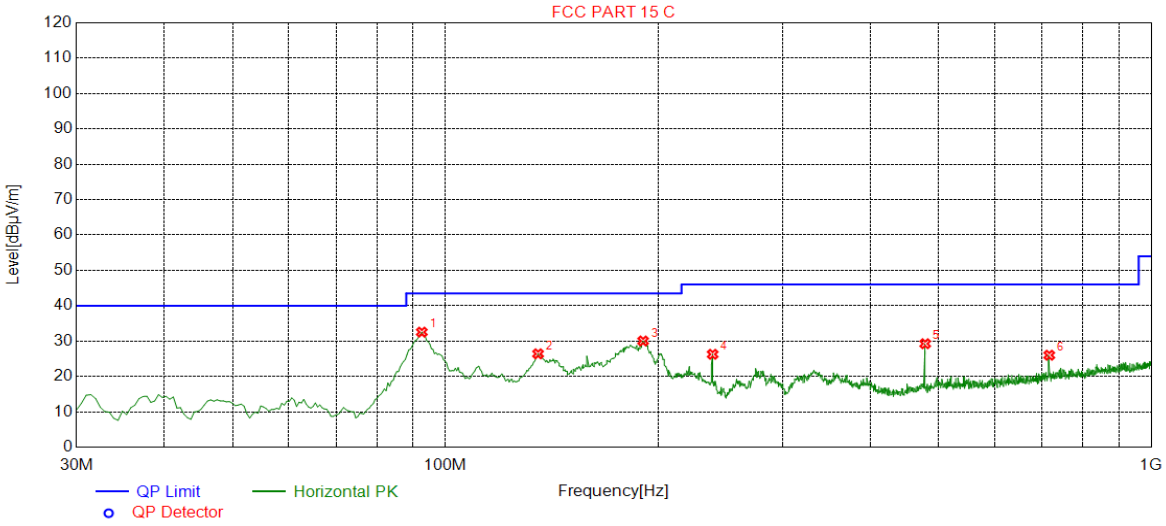
4.9.1.2 Charge + Transmitting, Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	92.5963	32.54	-32.98	43.50	10.96	152	275	Horizontal
2	135.297	26.40	-35.01	43.50	17.10	184	70	Horizontal
3	190.615	30.03	-31.81	43.50	13.47	109	78	Horizontal
4	239.139	26.27	-29.63	46.00	19.73	220	109	Horizontal
5	478.364	29.26	-23.25	46.00	16.74	196	235	Horizontal
6	717.103	26.01	-18.33	46.00	19.99	211	291	Horizontal

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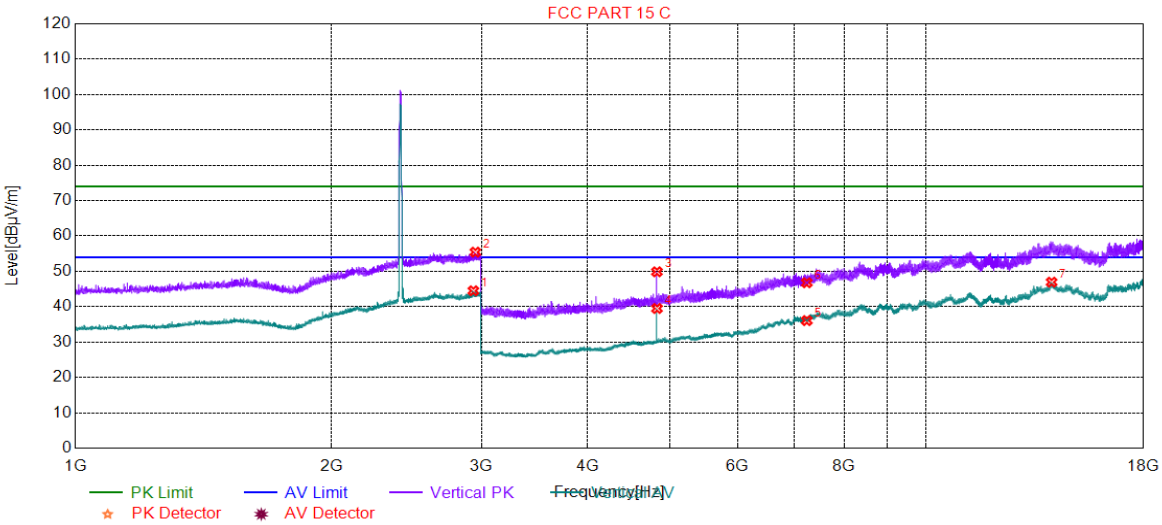
4.9.2 Transmitter emission above 1GHz

4.9.2.1

4.9.2.1.1 802.11B_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2935.48	44.51	9.52	54.00	9.49	233	338	Vertical
2	2951.48	55.43	9.67	74.00	18.57	242	56	Vertical
3	4824.18	49.88	-18.21	74.00	24.12	258	240	Vertical
4	4824.58	39.50	-18.21	54.00	14.50	291	260	Vertical
5	7236.00	36.08	-9.99	54.00	17.92	194	95	Vertical
6	7236.00	46.78	-9.99	74.00	27.22	273	248	Vertical
7	14032.6	46.95	2.61	54.00	7.05	208	31	Vertical

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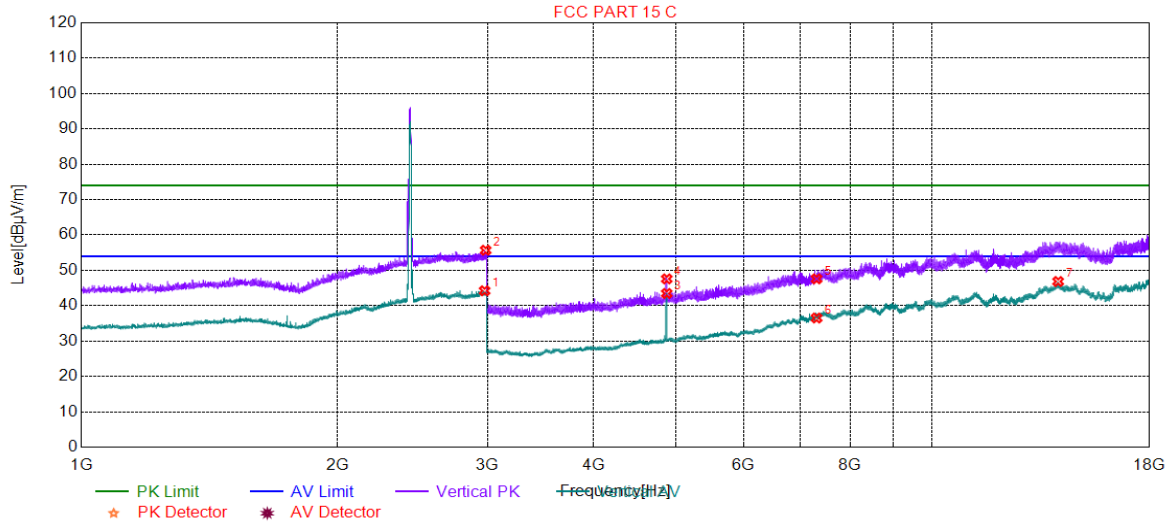
4.9.2.1.2 802.11B_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2977.49	44.22	9.55	54.00	9.78	204	138	Vertical
2	2985.99	55.68	9.51	74.00	18.32	160	306	Vertical
3	4874.00	43.47	-17.99	54.00	10.53	174	295	Vertical
4	4874.00	47.58	-17.99	74.00	26.42	266	264	Vertical
5	7311.00	47.60	-9.74	74.00	26.40	197	172	Vertical
6	7311.00	36.53	-9.74	54.00	17.47	176	172	Vertical
7	14052.4	46.85	2.64	54.00	7.15	280	172	Vertical

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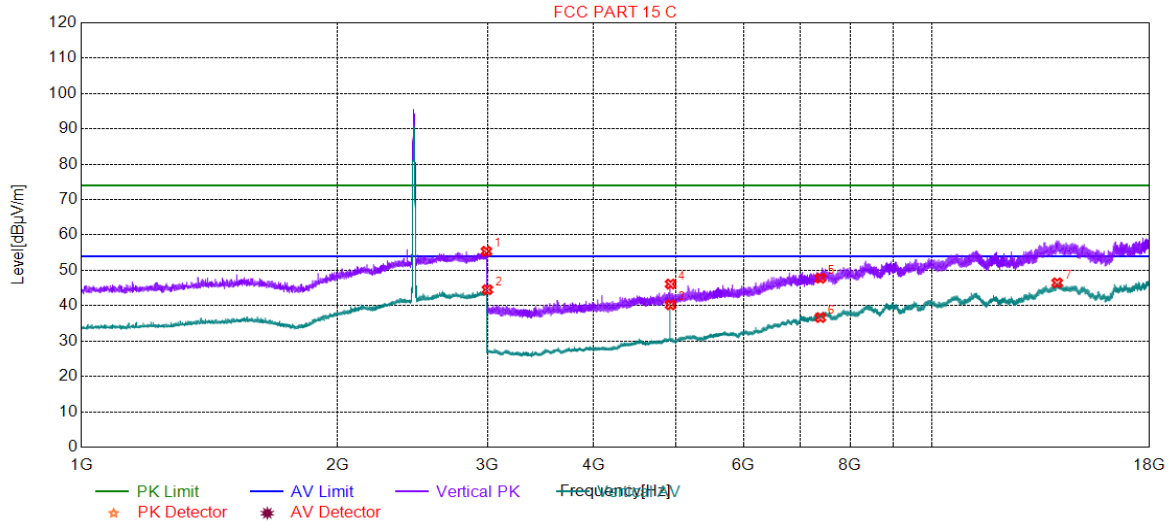
4.9.2.1.3 802.11B_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2991.49	55.39	9.49	74.00	18.61	206	281	Vertical
2	2999.49	44.53	9.45	54.00	9.47	247	98	Vertical
3	4924.00	40.25	-17.72	54.00	13.75	152	298	Vertical
4	4924.00	46.13	-17.72	74.00	27.87	262	240	Vertical
5	7386.00	47.79	-9.55	74.00	26.21	195	248	Vertical
6	7386.00	36.65	-9.55	54.00	17.35	298	192	Vertical
7	14015.6	46.48	2.57	54.00	7.52	270	134	Vertical

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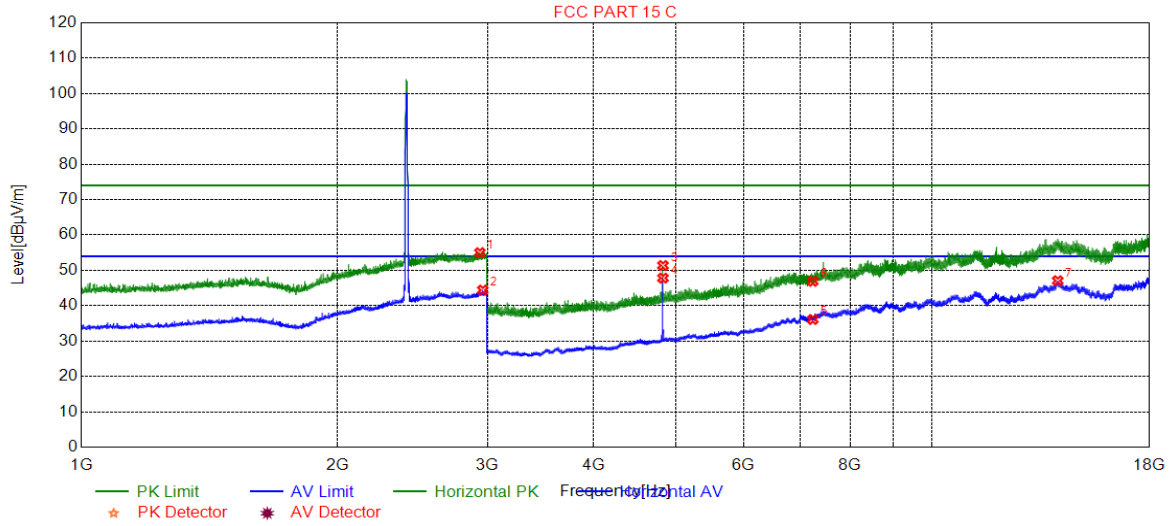
4.9.2.1.4 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2939.48	55.01	9.57	74.00	18.99	166	236	Horizontal
2	2962.49	44.43	9.62	54.00	9.57	104	342	Horizontal
3	4824.18	51.38	-18.21	74.00	22.62	127	307	Horizontal
4	4824.58	47.81	-18.21	54.00	6.19	212	340	Horizontal
5	7236.00	36.11	-9.99	54.00	17.89	203	340	Horizontal
6	7236.00	46.90	-9.99	74.00	27.10	241	26	Horizontal
7	14038.1	47.08	2.62	54.00	6.92	126	289	Horizontal

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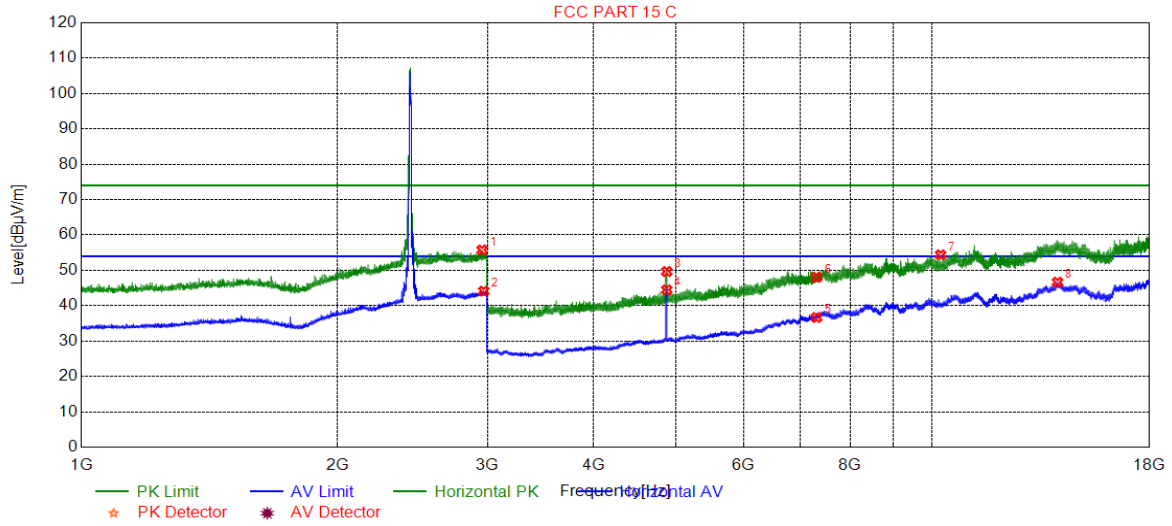
4.9.2.1.5 802.11B_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2957.48	55.76	9.65	74.00	18.24	144	124	Horizontal
2	2970.49	44.15	9.59	54.00	9.85	136	32	Horizontal
3	4874.00	49.67	-17.99	74.00	24.33	165	0	Horizontal
4	4874.00	44.50	-17.99	54.00	9.50	115	15	Horizontal
5	7311.00	36.68	-9.74	54.00	17.32	204	18	Horizontal
6	7311.00	48.06	-9.74	74.00	25.94	223	75	Horizontal
7	10225.3	54.39	-3.85	74.00	19.61	119	75	Horizontal
8	14028.8	46.66	2.60	54.00	7.34	144	18	Horizontal

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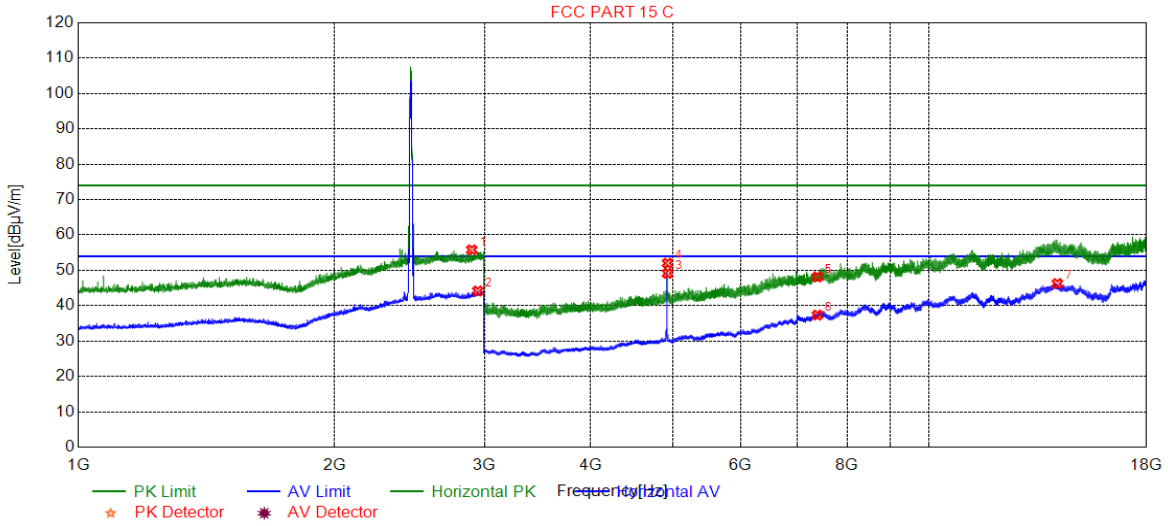
4.9.2.1.6 802.11B_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2898.97	55.80	9.14	74.00	18.20	113	66	Horizontal
2	2946.48	44.17	9.64	54.00	9.83	140	88	Horizontal
3	4924.00	49.16	-17.72	54.00	4.84	211	7	Horizontal
4	4924.00	52.04	-17.72	74.00	21.96	114	7	Horizontal
5	7386.00	48.16	-9.55	74.00	25.84	202	166	Horizontal
6	7386.00	37.36	-9.55	54.00	16.64	227	166	Horizontal
7	14136.0	46.27	2.60	54.00	7.73	185	329	Horizontal

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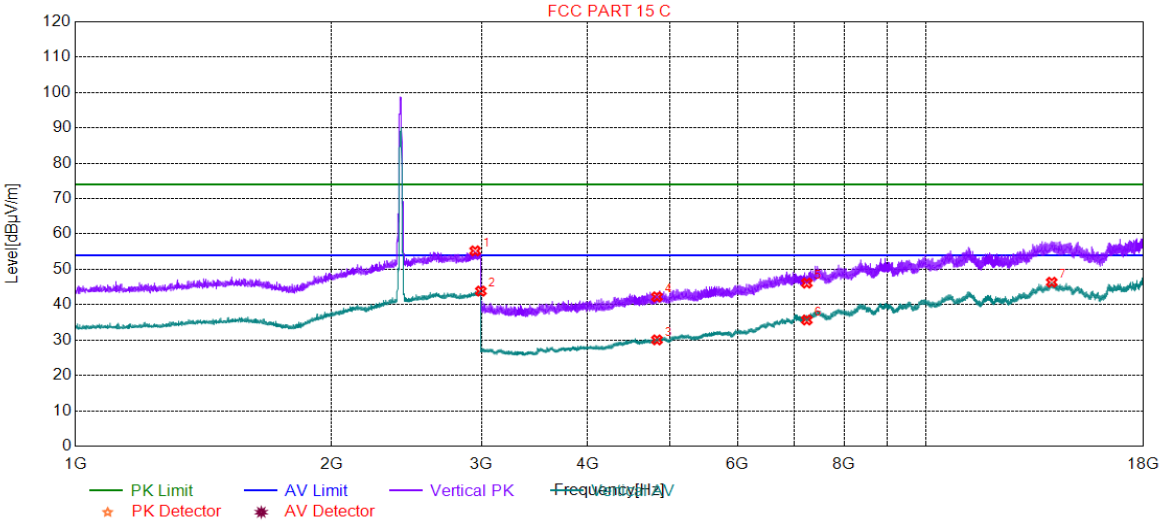
4.9.2.1.7 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2949.48	55.23	9.67	74.00	18.77	262	237	Vertical
2	2995.49	43.85	9.47	54.00	10.15	201	196	Vertical
3	4824.00	30.06	-18.21	54.00	23.94	266	327	Vertical
4	4824.00	42.23	-18.21	74.00	31.77	246	134	Vertical
5	7236.00	46.11	-9.99	74.00	27.89	190	199	Vertical
6	7236.00	35.68	-9.99	54.00	18.32	218	148	Vertical
7	14037.0	46.36	2.61	54.00	7.64	268	199	Vertical

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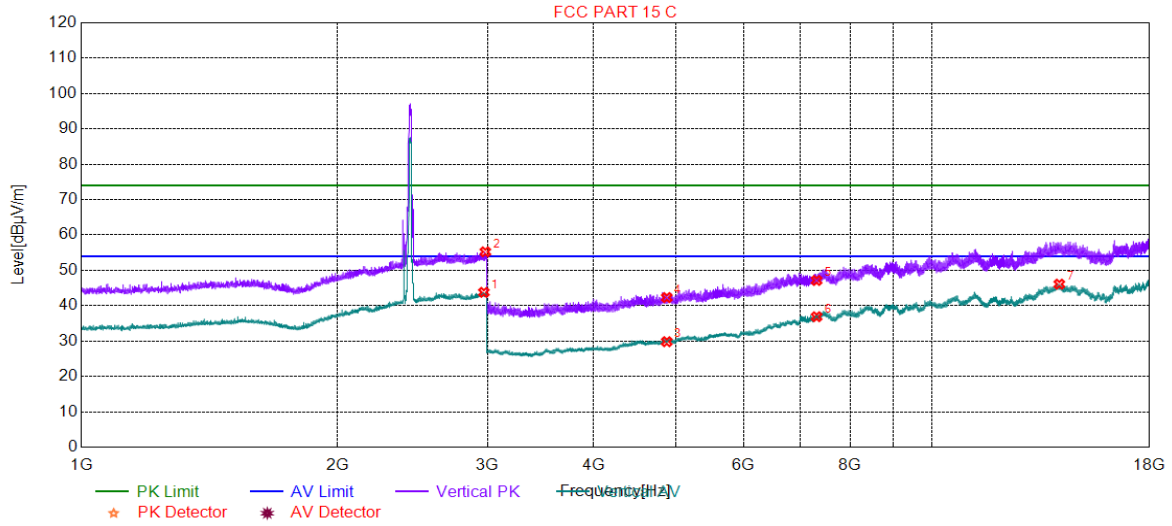
4.9.2.1.8 802.11G_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2971.49	43.78	9.58	54.00	10.22	203	45	Vertical
2	2983.49	55.23	9.53	74.00	18.77	187	263	Vertical
3	4874.00	29.83	-17.99	54.00	24.17	182	330	Vertical
4	4874.00	42.31	-17.99	74.00	31.69	222	114	Vertical
5	7311.00	47.14	-9.74	74.00	26.86	233	182	Vertical
6	7311.00	36.89	-9.74	54.00	17.11	190	40	Vertical
7	14097.5	46.10	2.74	54.00	7.90	160	232	Vertical

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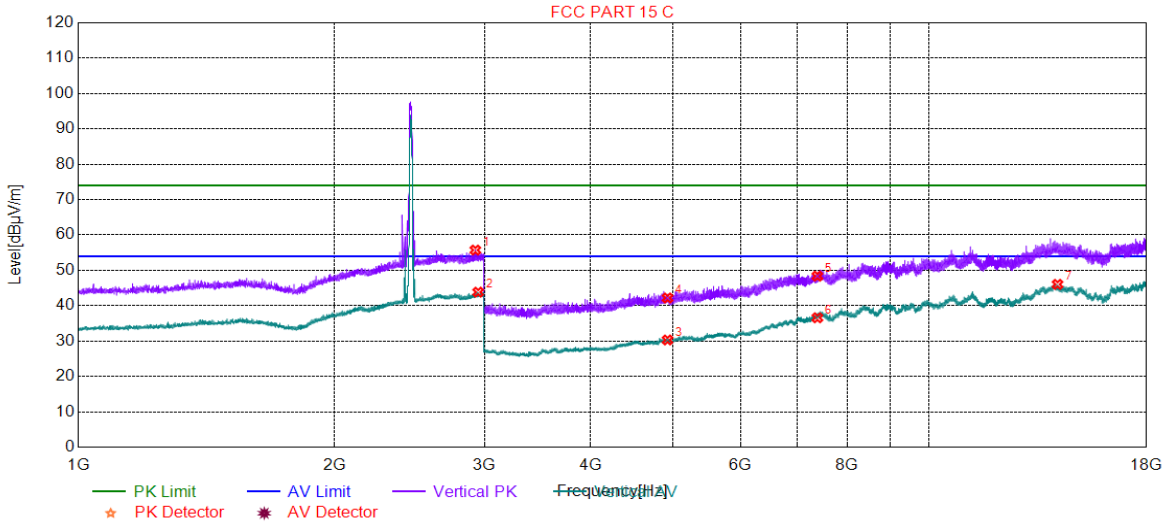
4.9.2.1.9 802.11G_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2927.48	55.73	9.44	74.00	18.27	269	238	Vertical
2	2949.48	43.84	9.67	54.00	10.16	262	170	Vertical
3	4924.00	30.32	-17.72	54.00	23.68	260	330	Vertical
4	4924.00	42.19	-17.72	74.00	31.81	274	30	Vertical
5	7386.00	48.37	-9.55	74.00	25.63	263	242	Vertical
6	7386.00	36.59	-9.55	54.00	17.41	178	20	Vertical
7	14143.7	46.05	2.56	54.00	7.95	287	295	Vertical

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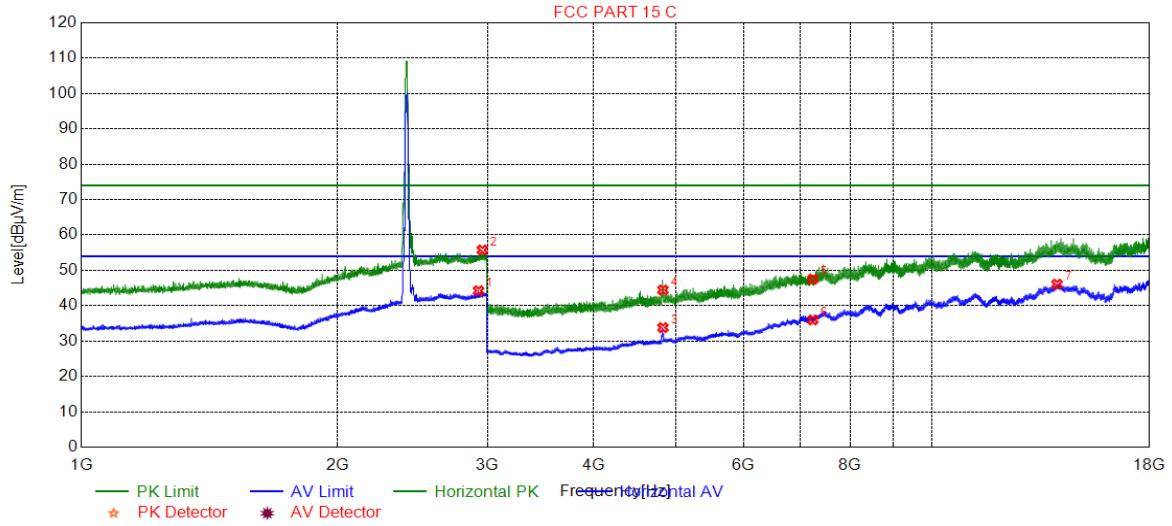
4.9.2.1.10 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2928.98	44.24	9.45	54.00	9.76	169	108	Horizontal
2	2958.98	55.76	9.64	74.00	18.24	171	2	Horizontal
3	4824.00	33.80	-18.21	54.00	20.20	180	0	Horizontal
4	4824.00	44.45	-18.21	74.00	29.55	187	16	Horizontal
5	7236.00	47.50	-9.99	74.00	26.50	196	215	Horizontal
6	7236.00	35.99	-9.99	54.00	18.01	200	154	Horizontal
7	14011.2	46.11	2.56	54.00	7.89	188	323	Horizontal

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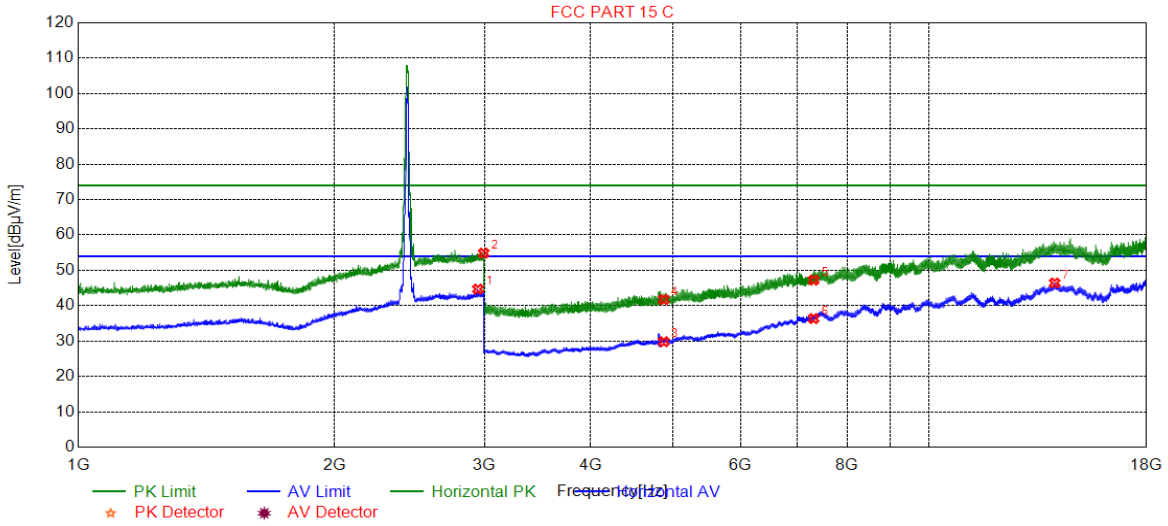
4.9.2.1.11 802.11G_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2947.98	44.69	9.66	54.00	9.31	118	206	Horizontal
2	2993.99	54.86	9.48	74.00	19.14	200	42	Horizontal
3	4874.00	29.82	-17.99	54.00	24.18	171	0	Horizontal
4	4874.00	41.74	-17.99	74.00	32.26	146	231	Horizontal
5	7311.00	47.23	-9.74	74.00	26.77	141	22	Horizontal
6	7311.00	36.37	-9.74	54.00	17.63	185	292	Horizontal
7	14036.5	46.43	2.61	54.00	7.57	192	292	Horizontal

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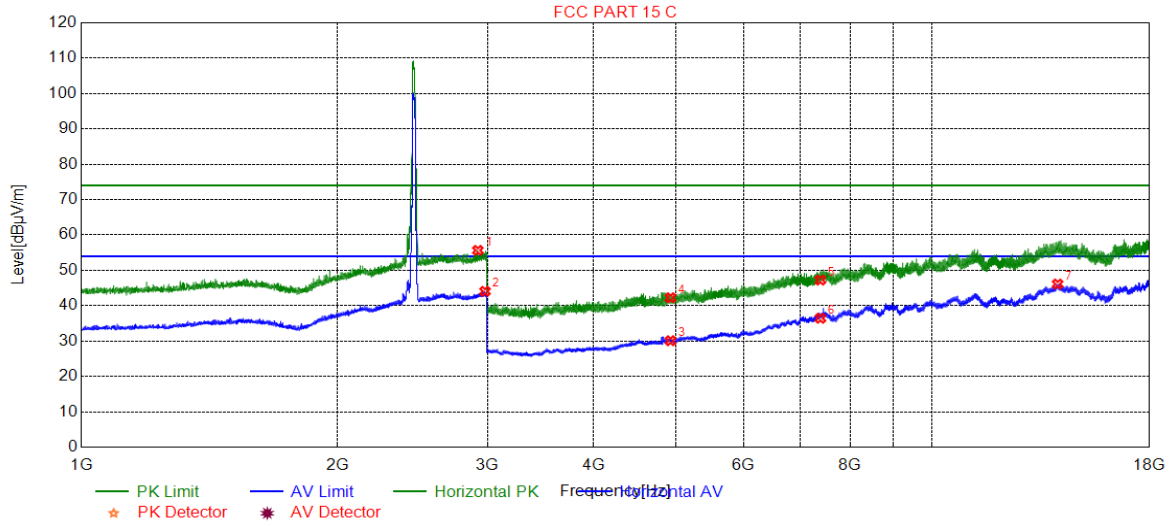
4.9.2.1.12 802.11G_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2923.48	55.65	9.39	74.00	18.35	147	342	Horizontal
2	2980.99	44.08	9.54	54.00	9.92	173	178	Horizontal
3	4924.00	30.11	-17.72	54.00	23.89	101	120	Horizontal
4	4924.00	42.26	-17.72	74.00	31.74	213	28	Horizontal
5	7386.00	47.26	-9.55	74.00	26.74	149	183	Horizontal
6	7386.00	36.46	-9.55	54.00	17.54	237	287	Horizontal
7	14033.7	46.13	2.61	54.00	7.87	163	343	Horizontal

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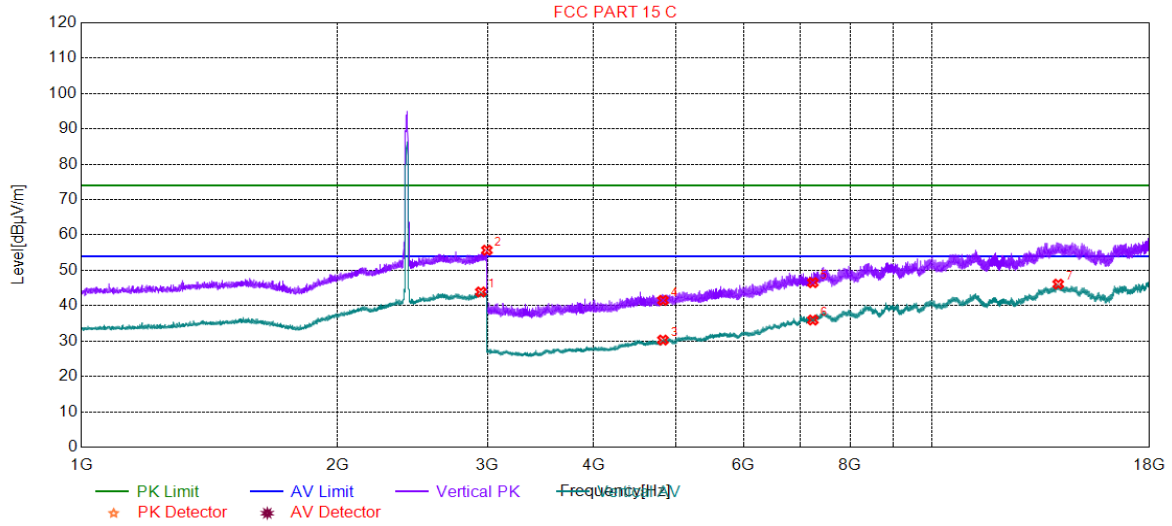
4.9.2.1.13 802.11N20_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2947.48	43.89	9.65	54.00	10.11	160	210	Vertical
2	2995.99	55.70	9.47	74.00	18.30	196	319	Vertical
3	4824.00	30.29	-18.21	54.00	23.71	212	303	Vertical
4	4824.00	41.52	-18.21	74.00	32.48	205	181	Vertical
5	7236.00	46.53	-9.99	74.00	27.47	176	169	Vertical
6	7236.00	35.95	-9.99	54.00	18.05	266	221	Vertical
7	14056.3	46.11	2.65	54.00	7.89	189	360	Vertical

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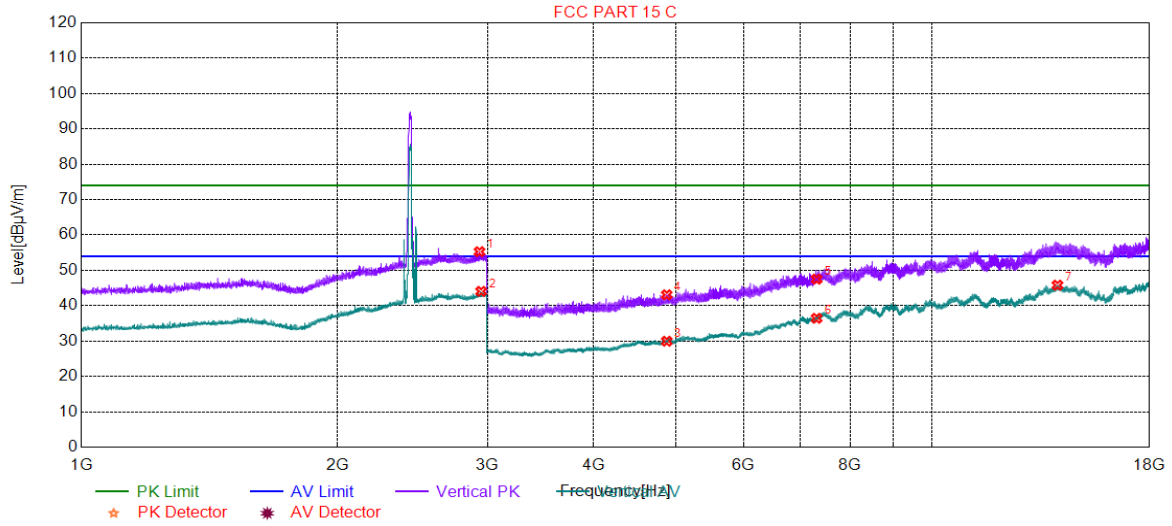
4.9.2.1.14 802.11N20_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2936.48	55.28	9.53	74.00	18.72	227	73	Vertical
2	2949.48	44.06	9.67	54.00	9.94	268	250	Vertical
3	4874.00	29.96	-17.99	54.00	24.04	201	250	Vertical
4	4874.00	43.09	-17.99	74.00	30.91	201	307	Vertical
5	7311.00	47.51	-9.74	74.00	26.49	228	340	Vertical
6	7311.00	36.45	-9.74	54.00	17.55	275	187	Vertical
7	14027.7	45.81	2.60	54.00	8.19	182	26	Vertical

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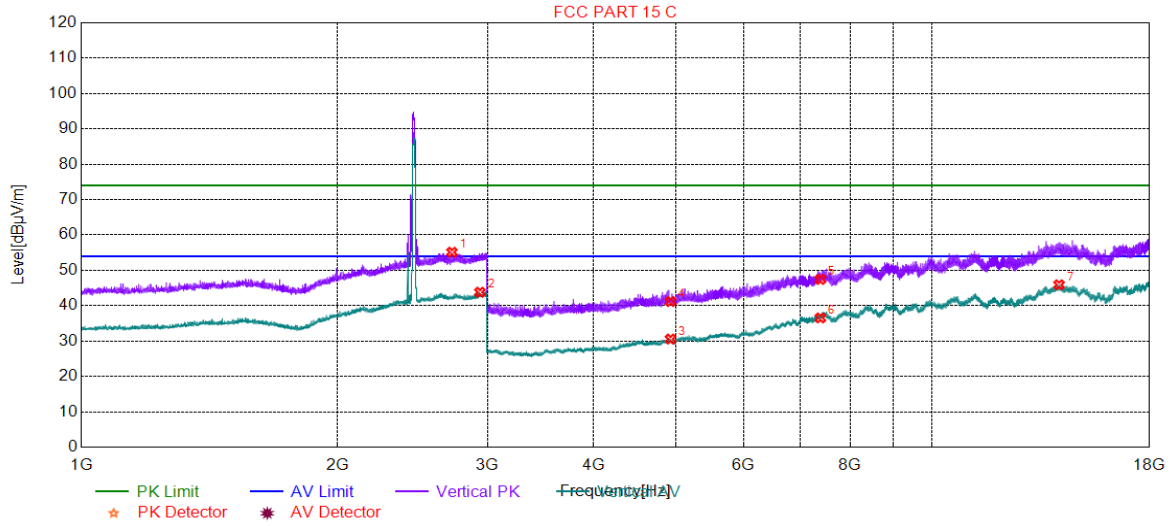
4.9.2.1.15 802.11N20_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2725.43	55.13	8.85	74.00	18.87	280	334	Vertical
2	2939.98	43.82	9.57	54.00	10.18	258	142	Vertical
3	4924.00	30.57	-17.72	54.00	23.43	295	339	Vertical
4	4924.00	41.18	-17.72	74.00	32.82	203	195	Vertical
5	7386.00	47.44	-9.55	74.00	26.56	178	172	Vertical
6	7386.00	36.55	-9.55	54.00	17.45	171	222	Vertical
7	14087.6	45.92	2.72	54.00	8.08	178	21	Vertical

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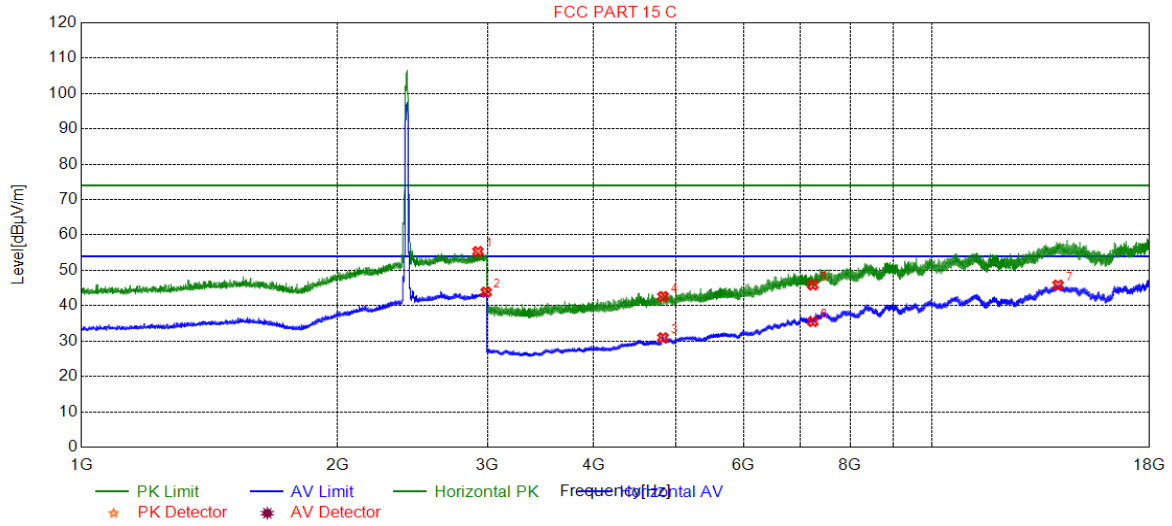
4.9.2.1.16 802.11N20_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2923.98	55.33	9.40	74.00	18.67	169	138	Horizontal
2	2989.49	43.87	9.50	54.00	10.13	169	124	Horizontal
3	4824.00	30.98	-18.21	54.00	23.02	181	341	Horizontal
4	4824.00	42.60	-18.21	74.00	31.40	183	1	Horizontal
5	7236.00	45.86	-9.99	74.00	28.14	170	179	Horizontal
6	7236.00	35.51	-9.99	54.00	18.49	180	295	Horizontal
7	14050.8	45.86	2.64	54.00	8.14	147	19	Horizontal

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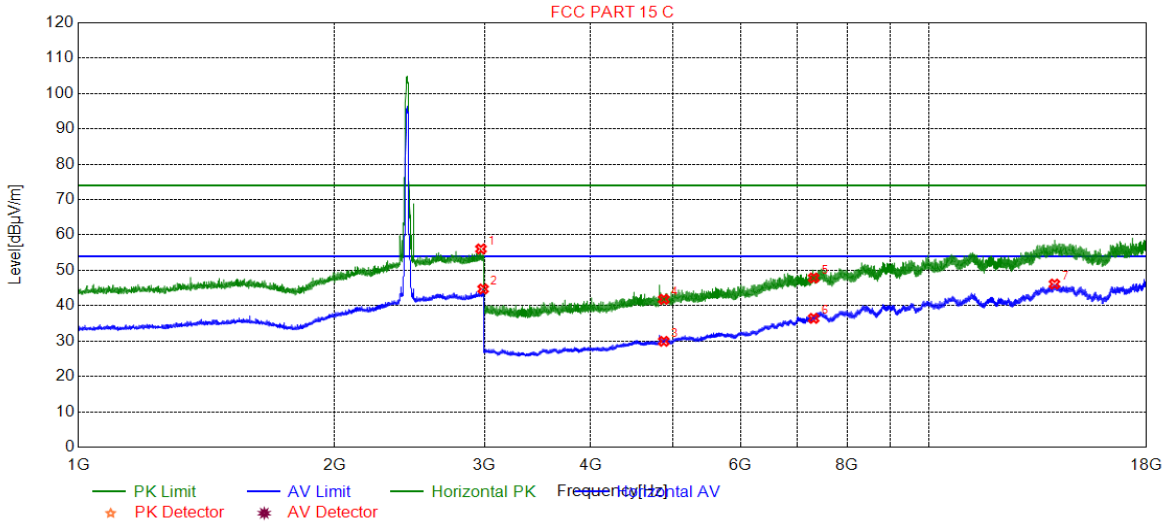
4.9.2.1.17 802.11N20_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2971.99	56.05	9.58	74.00	17.95	234	112	Horizontal
2	2989.49	44.73	9.50	54.00	9.27	194	98	Horizontal
3	4874.00	29.93	-17.99	54.00	24.07	107	311	Horizontal
4	4874.00	41.81	-17.99	74.00	32.19	207	56	Horizontal
5	7311.00	47.85	-9.74	74.00	26.15	205	21	Horizontal
6	7311.00	36.43	-9.74	54.00	17.57	156	227	Horizontal
7	14028.2	46.13	2.60	54.00	7.87	210	227	Horizontal

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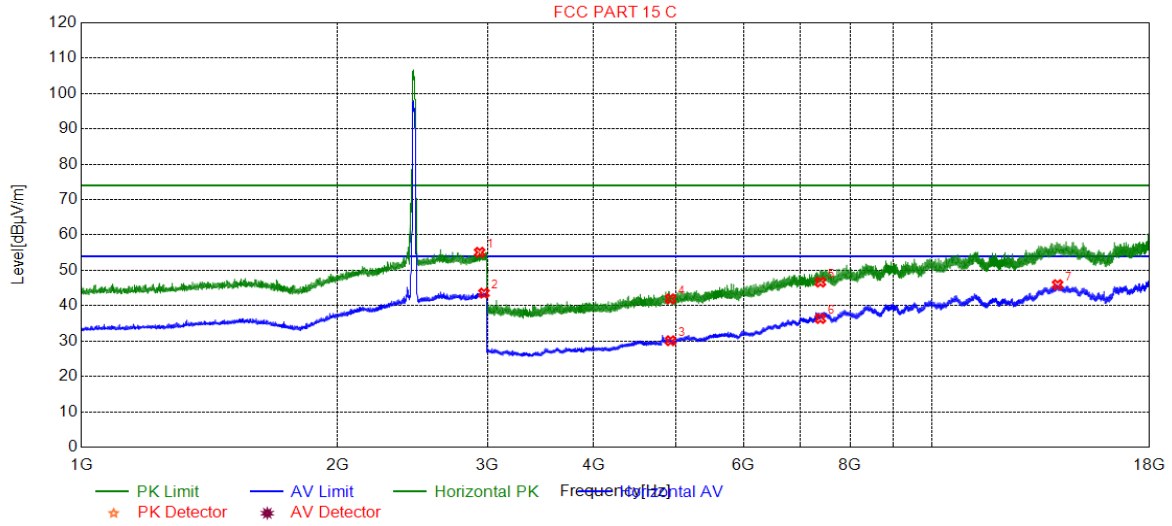
4.9.2.1.18 802.11N20_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.98	55.11	9.55	74.00	18.89	167	286	Horizontal
2	2971.99	43.56	9.58	54.00	10.44	209	232	Horizontal
3	4924.00	30.10	-17.72	54.00	23.90	168	226	Horizontal
4	4924.00	41.95	-17.72	74.00	32.05	100	310	Horizontal
5	7386.00	46.67	-9.55	74.00	27.33	147	129	Horizontal
6	7386.00	36.38	-9.55	54.00	17.62	154	18	Horizontal
7	14032.1	45.96	2.60	54.00	8.04	108	342	Horizontal

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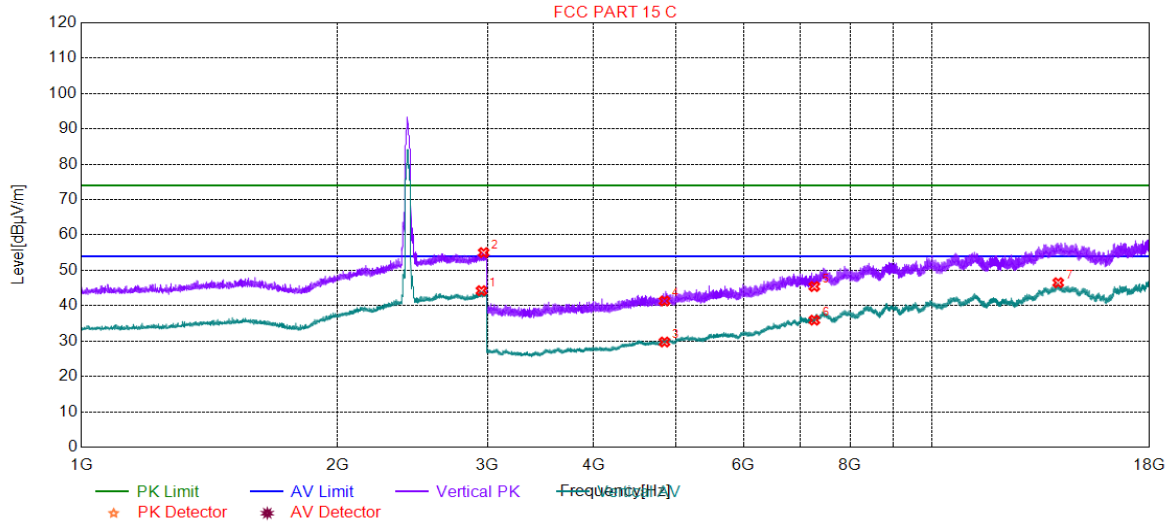
4.9.2.1.19 802.11N40_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.98	44.25	9.67	54.00	9.75	185	61	Vertical
2	2969.49	55.01	9.59	74.00	18.99	289	33	Vertical
3	4844.00	29.74	-18.13	54.00	24.26	271	278	Vertical
4	4844.00	41.34	-18.13	74.00	32.66	187	334	Vertical
5	7266.00	45.42	-9.88	74.00	28.58	185	230	Vertical
6	7266.00	35.92	-9.88	54.00	18.08	200	351	Vertical
7	14056.3	46.51	2.65	54.00	7.49	294	126	Vertical

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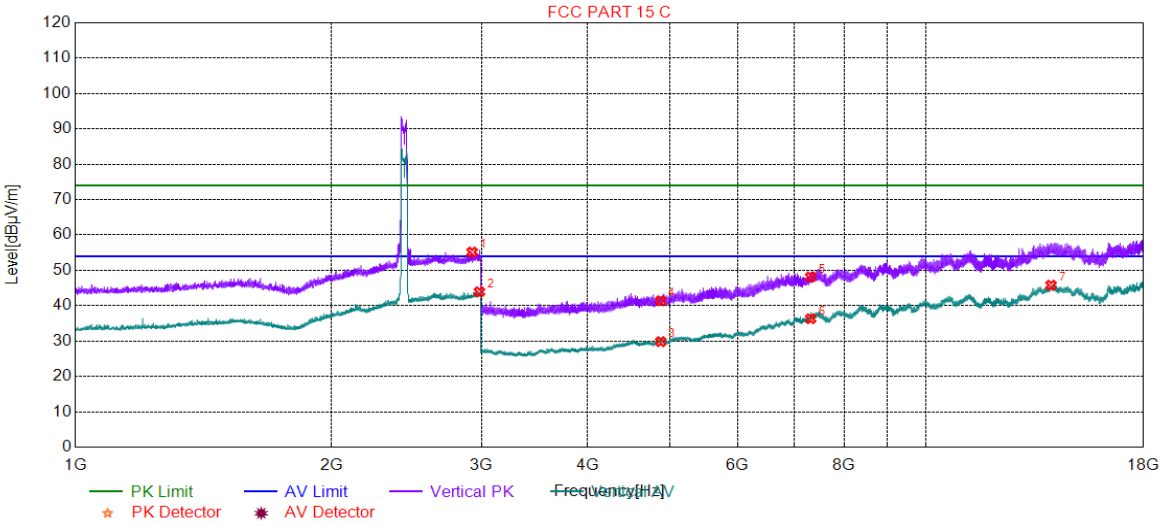
4.9.2.1.20 802.11N40_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2925.98	55.16	9.42	74.00	18.84	228	358	Vertical
2	2983.99	43.94	9.52	54.00	10.06	250	251	Vertical
3	4874.00	29.84	-17.99	54.00	24.16	247	78	Vertical
4	4874.00	41.39	-17.99	74.00	32.61	175	296	Vertical
5	7311.00	48.14	-9.74	74.00	25.86	202	37	Vertical
6	7311.00	36.33	-9.74	54.00	17.67	233	222	Vertical
7	14009.0	45.81	2.56	54.00	8.19	286	335	Vertical

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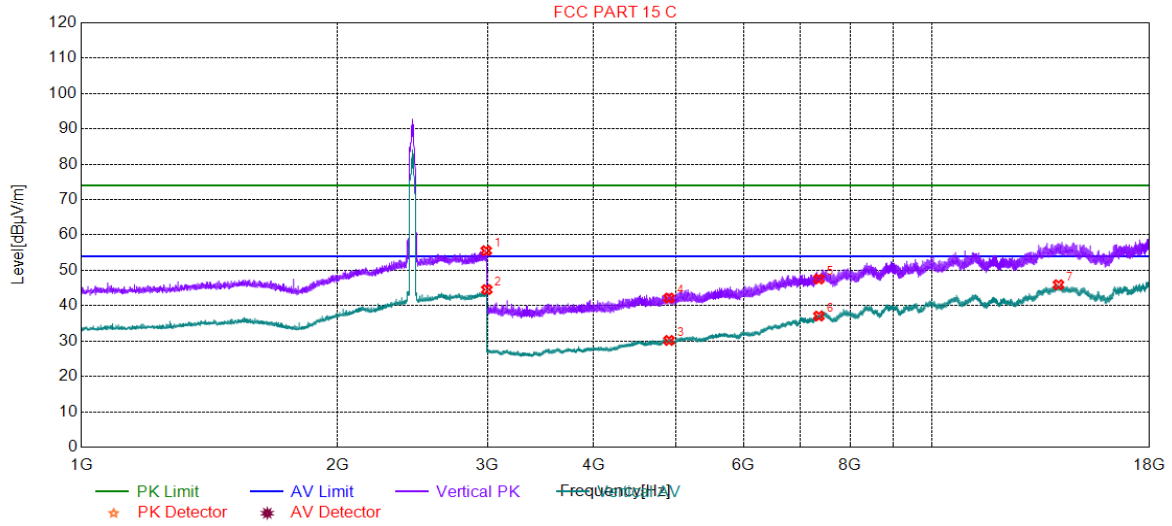
4.9.2.1.21 802.11N40_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2990.49	55.55	9.49	74.00	18.45	187	142	Vertical
2	2995.49	44.56	9.47	54.00	9.44	160	197	Vertical
3	4904.00	30.18	-17.85	54.00	23.82	193	302	Vertical
4	4904.00	42.17	-17.85	74.00	31.83	170	302	Vertical
5	7356.00	47.55	-9.62	74.00	26.45	243	27	Vertical
6	7356.00	37.08	-9.62	54.00	16.92	266	89	Vertical
7	14065.6	45.94	2.67	54.00	8.06	222	89	Vertical

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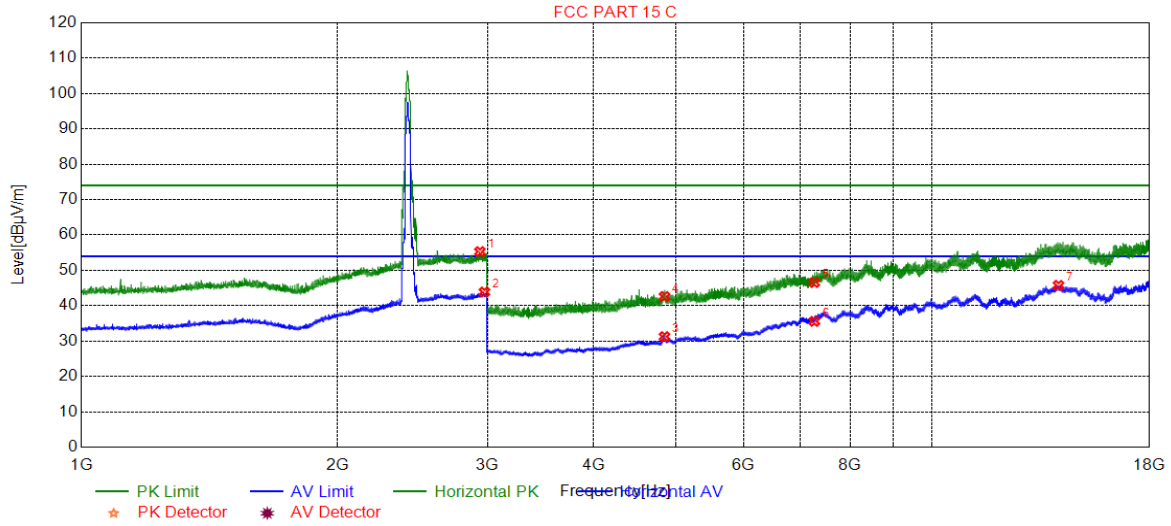
4.9.2.1.22 802.11N40_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2939.98	55.30	9.57	74.00	18.70	136	218	Horizontal
2	2975.99	43.88	9.56	54.00	10.12	116	110	Horizontal
3	4844.00	31.26	-18.13	54.00	22.74	229	335	Horizontal
4	4844.00	42.61	-18.13	74.00	31.39	163	87	Horizontal
5	7266.00	46.55	-9.88	74.00	27.45	159	284	Horizontal
6	7266.00	35.58	-9.88	54.00	18.42	154	284	Horizontal
7	14065.6	45.77	2.67	54.00	8.23	186	229	Horizontal

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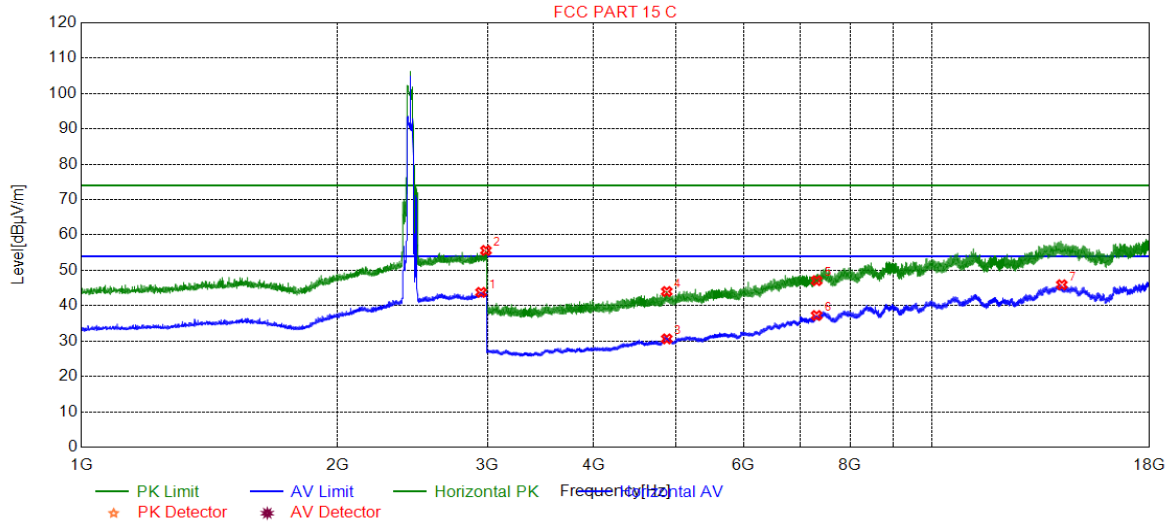
4.9.2.1.23 802.11N40_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.98	43.78	9.67	54.00	10.22	121	96	Horizontal
2	2987.99	55.62	9.51	74.00	18.38	146	315	Horizontal
3	4874.00	30.62	-17.99	54.00	23.38	180	13	Horizontal
4	4874.00	44.01	-17.99	74.00	29.99	195	341	Horizontal
5	7311.00	47.09	-9.74	74.00	26.91	101	344	Horizontal
6	7311.00	37.24	-9.74	54.00	16.76	223	190	Horizontal
7	14193.8	45.93	2.36	54.00	8.07	210	293	Horizontal

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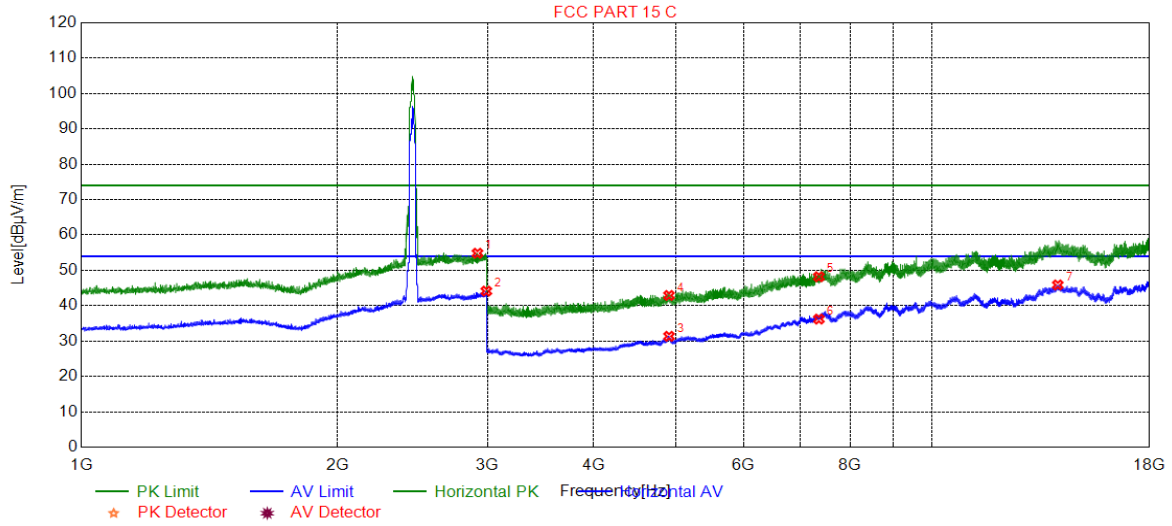
4.9.2.1.24 802.11N40_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2920.48	54.83	9.36	74.00	19.17	193	40	Horizontal
2	2991.49	44.13	9.49	54.00	9.87	135	82	Horizontal
3	4904.00	31.35	-17.85	54.00	22.65	101	9	Horizontal
4	4904.00	42.90	-17.85	74.00	31.10	112	324	Horizontal
5	7356.00	48.19	-9.62	74.00	25.81	102	156	Horizontal
6	7356.00	36.22	-9.62	54.00	17.78	193	326	Horizontal
7	14039.2	45.88	2.62	54.00	8.12	148	42	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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4.10 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:			

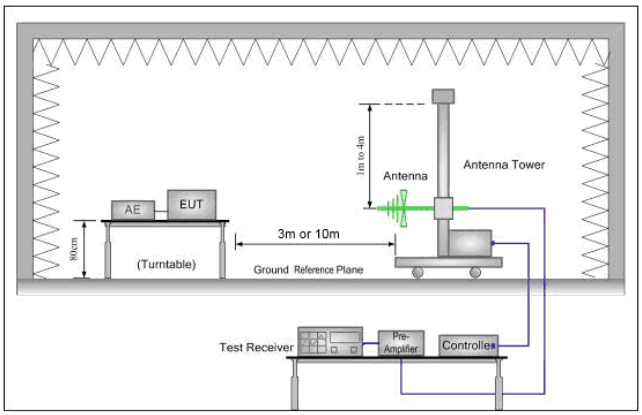

Figure 1. 30MHz to 1GHz

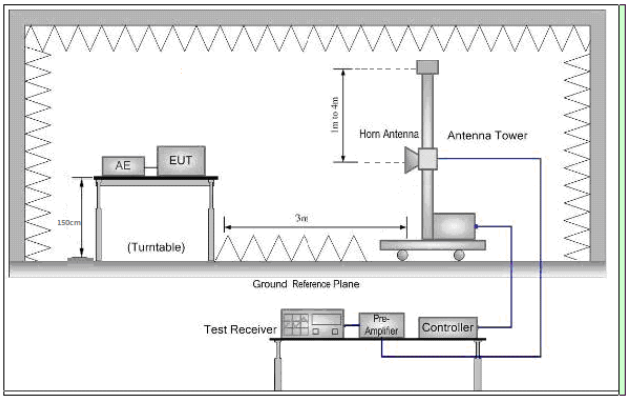

Figure 2. Above 1 GHz

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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); Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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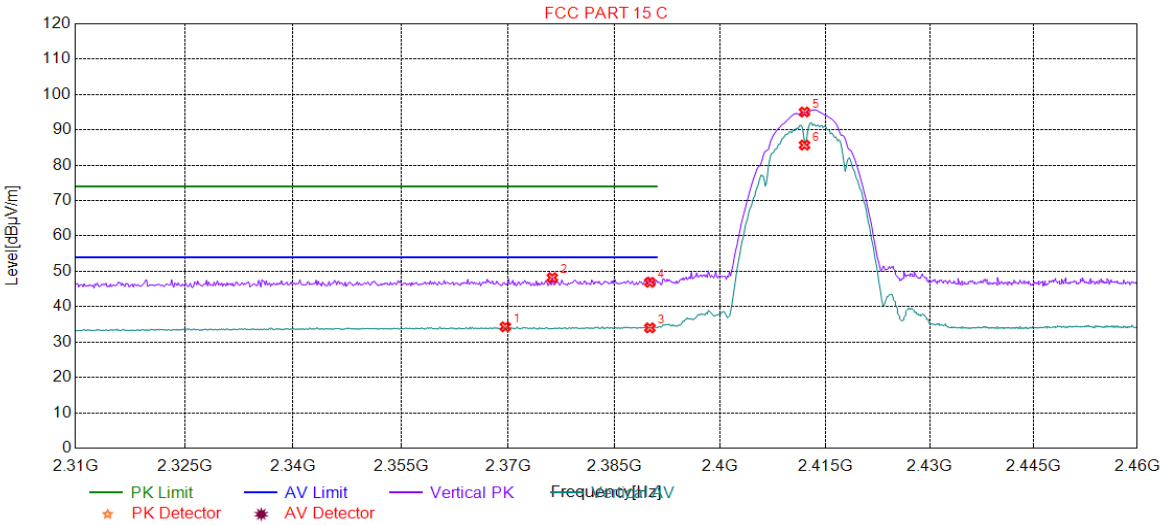
Test plot as follows:

4.10.1.1 802.11B_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.60	34.32	7.79	54.00	19.68	278	100	Vertical
2	2376.21	48.21	7.78	74.00	25.79	188	349	Vertical
3	2390.00	34.03	7.77	54.00	19.97	212	237	Vertical
4	2390.00	46.90	7.77	74.00	27.10	293	168	Vertical
5	2412.00	95.06	7.81	0.00	-95.06	250	248	Vertical
6	2412.00	85.71	7.81	0.00	-85.71	214	38	Vertical

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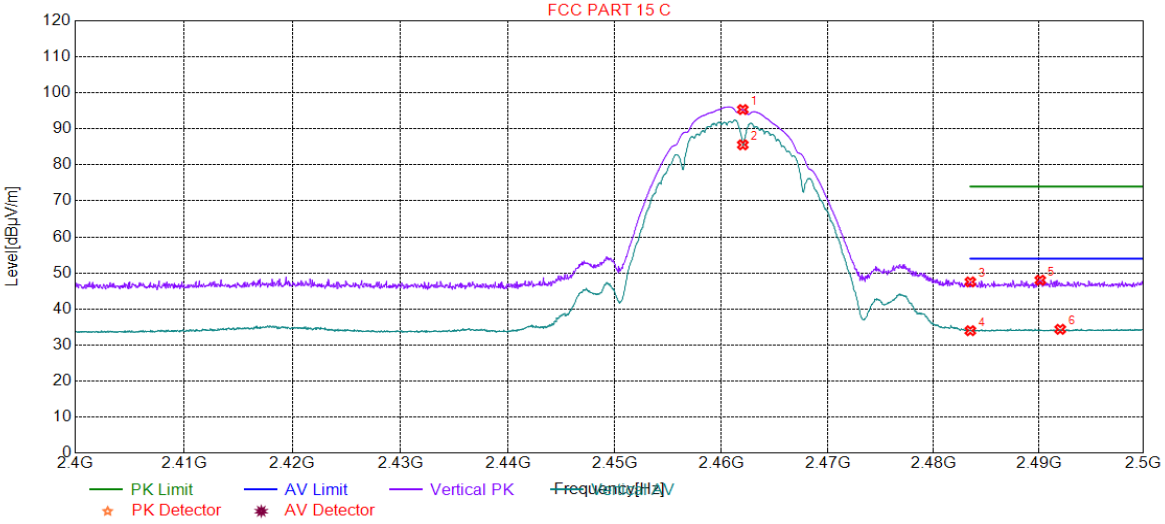
4.10.1.2 802.11B_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	95.36	7.98	0.00	-95.36	154	19	Vertical
2	2462.00	85.57	7.98	0.00	-85.57	193	14	Vertical
3	2483.50	47.52	8.01	74.00	26.48	226	296	Vertical
4	2483.50	33.98	8.01	54.00	20.02	178	118	Vertical
5	2490.14	47.99	8.02	74.00	26.01	196	95	Vertical
6	2492.04	34.36	8.02	54.00	19.64	185	205	Vertical

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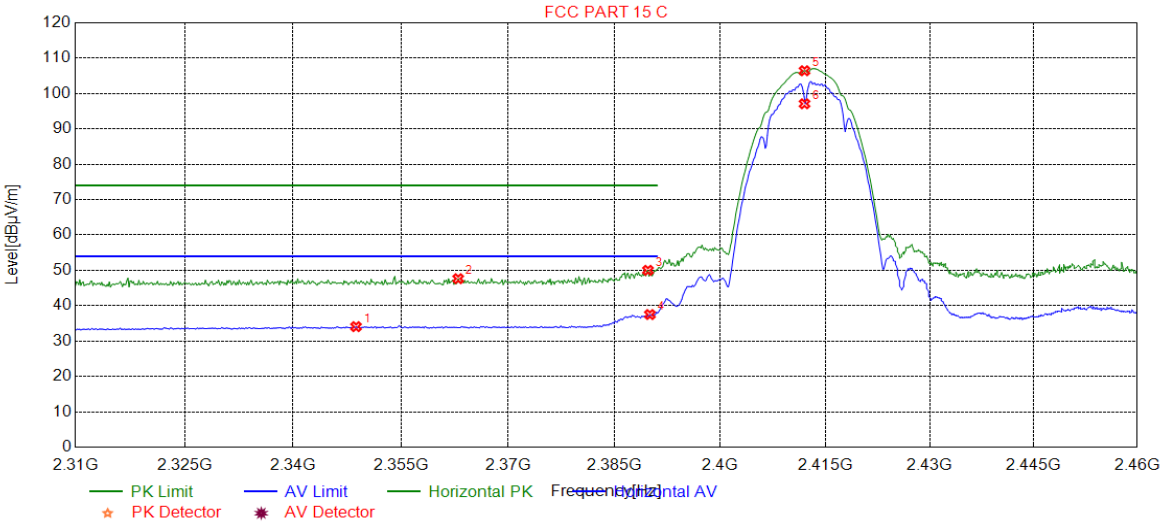
4.10.1.3 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2348.73	34.09	7.80	54.00	19.91	145	214	Horizontal
2	2363.00	47.65	7.80	74.00	26.35	219	126	Horizontal
3	2389.72	50.01	7.77	74.00	23.99	175	202	Horizontal
4	2390.00	37.51	7.77	54.00	16.49	221	210	Horizontal
5	2412.00	106.44	7.81	0.00	-106.44	242	210	Horizontal
6	2412.00	97.10	7.81	0.00	-97.10	226	210	Horizontal

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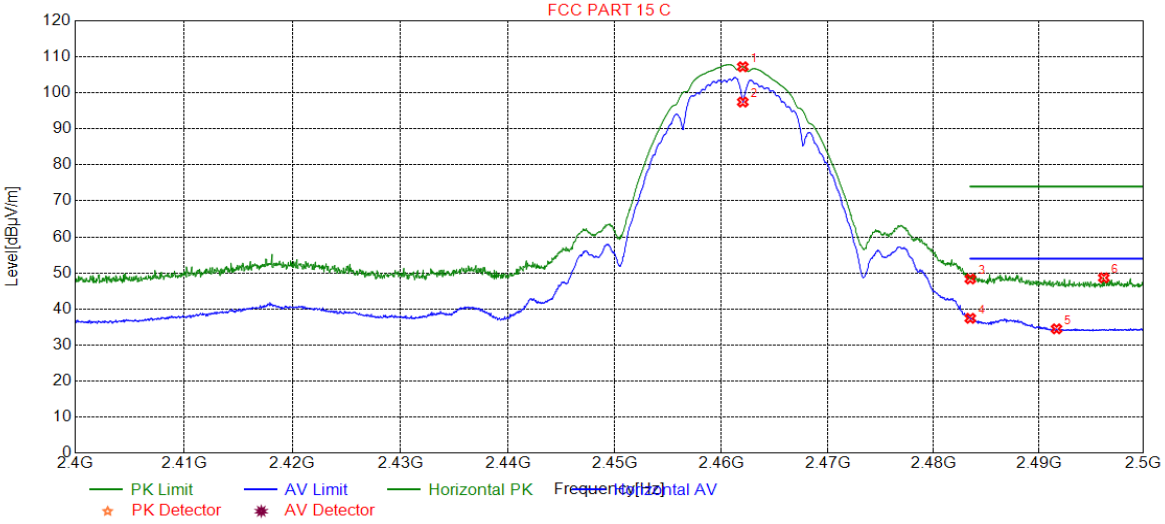
4.10.1.4 802.11B_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	107.24	7.98	0.00	-107.24	218	204	Horizontal
2	2462.00	97.44	7.98	0.00	-97.44	117	210	Horizontal
3	2483.50	48.33	8.01	74.00	25.67	167	210	Horizontal
4	2483.50	37.42	8.01	54.00	16.58	244	210	Horizontal
5	2491.69	34.49	8.02	54.00	19.51	216	204	Horizontal
6	2496.19	48.65	8.03	74.00	25.35	163	144	Horizontal

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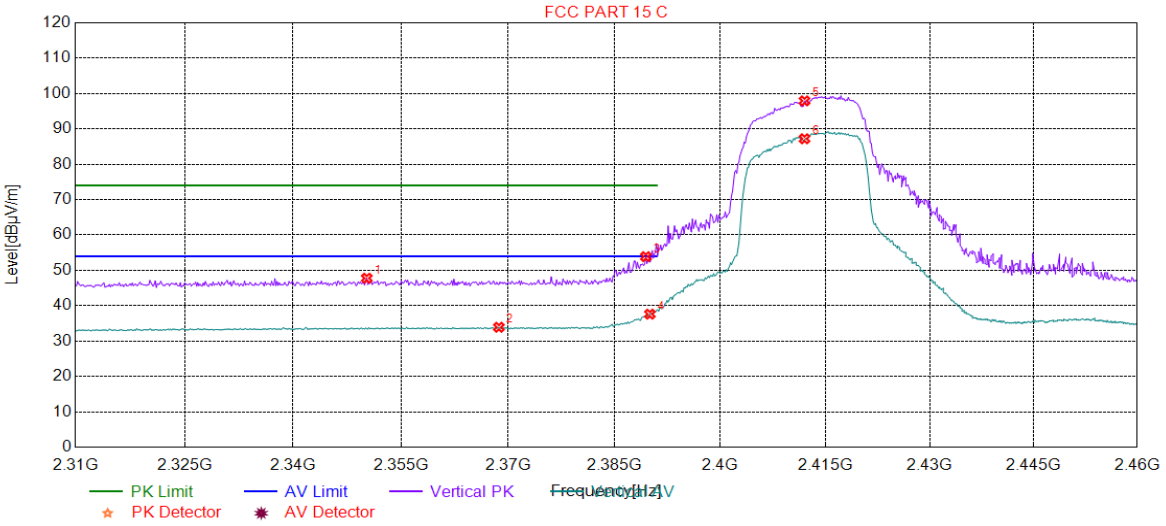
4.10.1.5 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2350.24	47.78	7.81	74.00	26.22	167	119	Vertical
2	2368.70	33.92	7.79	54.00	20.08	170	331	Vertical
3	2389.42	53.88	7.77	74.00	20.12	262	244	Vertical
4	2390.00	37.62	7.77	54.00	16.38	221	248	Vertical
5	2412.00	97.92	7.81	0.00	-97.92	152	248	Vertical
6	2412.00	87.21	7.81	0.00	-87.21	194	248	Vertical

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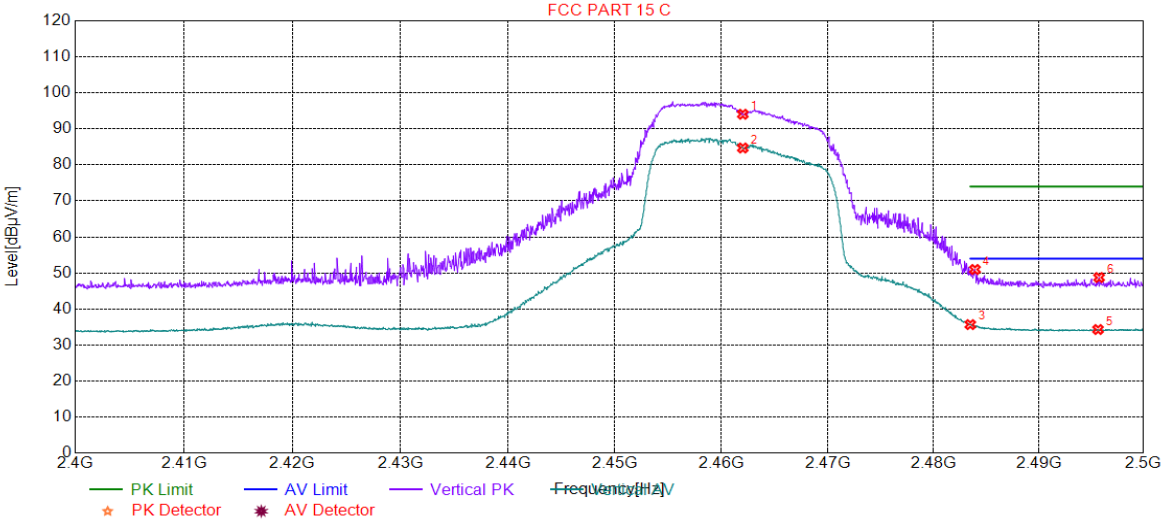
4.10.1.6 802.11G_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	94.06	7.98	0.00	-94.06	179	357	Vertical
2	2462.00	84.69	7.98	0.00	-84.69	241	19	Vertical
3	2483.50	35.67	8.01	54.00	18.33	171	45	Vertical
4	2483.94	50.97	8.01	74.00	23.03	262	55	Vertical
5	2495.64	34.31	8.02	54.00	19.69	207	178	Vertical
6	2495.74	48.73	8.02	74.00	25.27	178	281	Vertical

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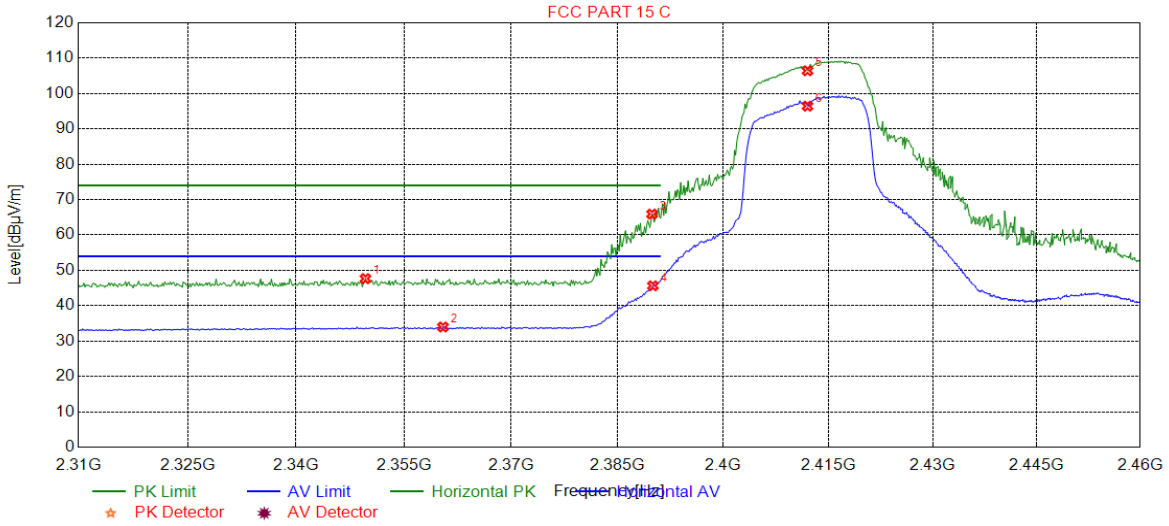
4.10.1.7 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2349.63	47.67	7.81	74.00	26.33	132	140	Horizontal
2	2360.45	33.99	7.80	54.00	20.01	146	4	Horizontal
3	2389.87	65.92	7.77	74.00	8.08	183	218	Horizontal
4	2390.00	45.63	7.77	54.00	8.37	194	210	Horizontal
5	2412.00	106.43	7.81	0.00	-106.43	140	202	Horizontal
6	2412.00	96.43	7.81	0.00	-96.43	190	202	Horizontal

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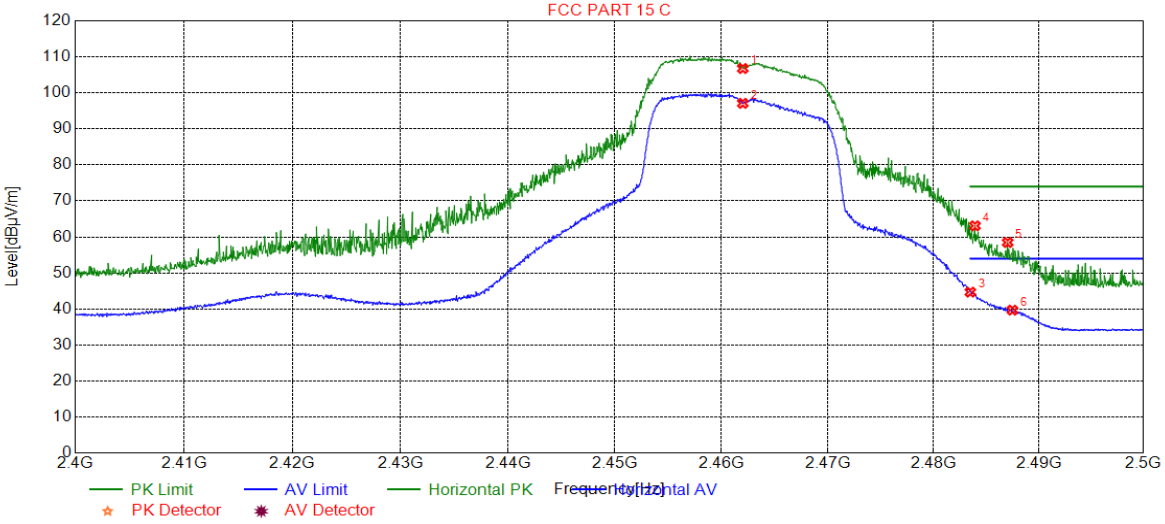
4.10.1.8 802.11G_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	106.76	7.98	0.00	-106.76	217	207	Horizontal
2	2462.00	97.09	7.98	0.00	-97.09	147	212	Horizontal
3	2483.50	44.68	8.01	54.00	9.32	163	212	Horizontal
4	2483.94	63.08	8.01	74.00	10.92	169	207	Horizontal
5	2487.04	58.46	8.01	74.00	15.54	221	212	Horizontal
6	2487.49	39.69	8.01	54.00	14.31	117	212	Horizontal

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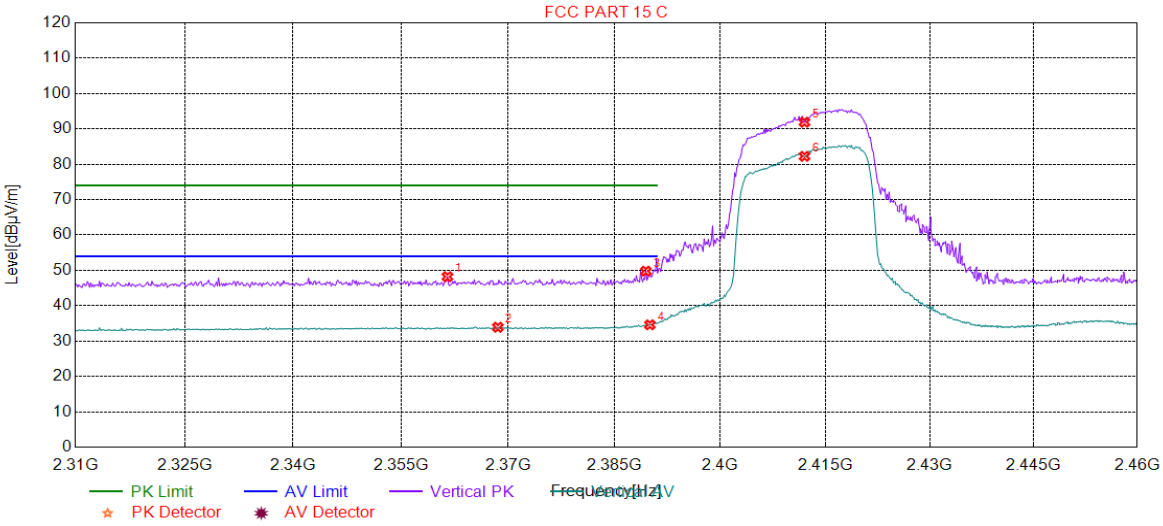
4.10.1.9 802.11N20_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.50	48.21	7.80	74.00	25.79	185	343	Vertical
2	2368.55	33.92	7.79	54.00	20.08	285	351	Vertical
3	2389.42	49.77	7.77	74.00	24.23	191	269	Vertical
4	2390.00	34.61	7.77	54.00	19.39	221	14	Vertical
5	2412.00	91.89	7.81	0.00	-91.89	245	252	Vertical
6	2412.00	82.24	7.81	0.00	-82.24	216	252	Vertical

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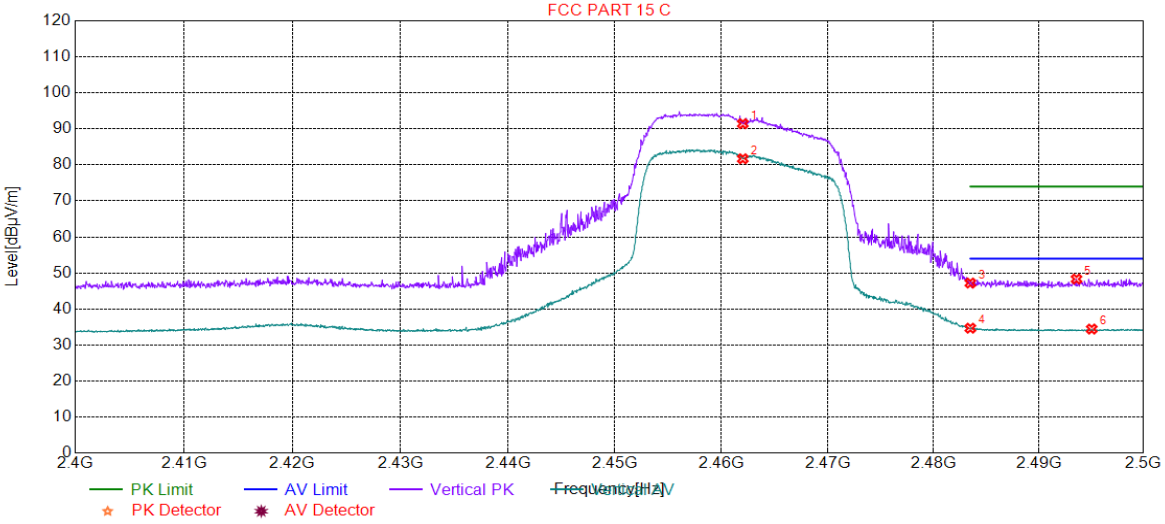
4.10.1.10 802.11N20_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	91.43	7.98	0.00	-91.43	236	19	Vertical
2	2462.00	81.70	7.98	0.00	-81.70	290	19	Vertical
3	2483.50	47.20	8.01	74.00	26.80	189	332	Vertical
4	2483.50	34.67	8.01	54.00	19.33	238	234	Vertical
5	2493.59	48.31	8.02	74.00	25.69	240	343	Vertical
6	2495.04	34.43	8.02	54.00	19.57	279	14	Vertical

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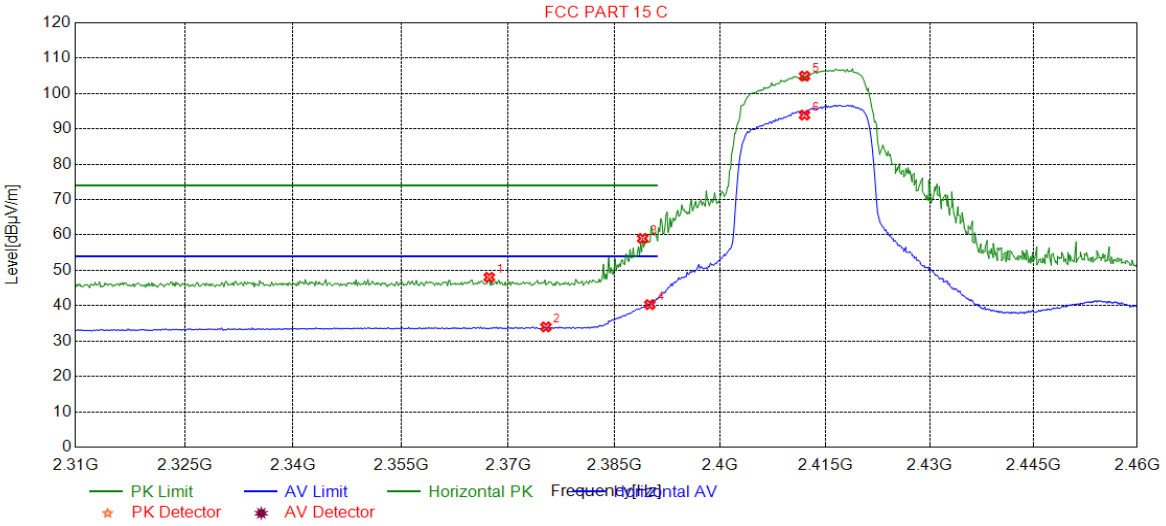
4.10.1.11 802.11N20_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.35	48.03	7.79	74.00	25.97	163	13	Horizontal
2	2375.31	34.01	7.78	54.00	19.99	175	211	Horizontal
3	2388.97	59.03	7.77	74.00	14.97	206	198	Horizontal
4	2390.00	40.31	7.77	54.00	13.69	183	211	Horizontal
5	2412.00	104.93	7.81	0.00	-104.93	150	211	Horizontal
6	2412.00	93.91	7.81	0.00	-93.91	223	211	Horizontal

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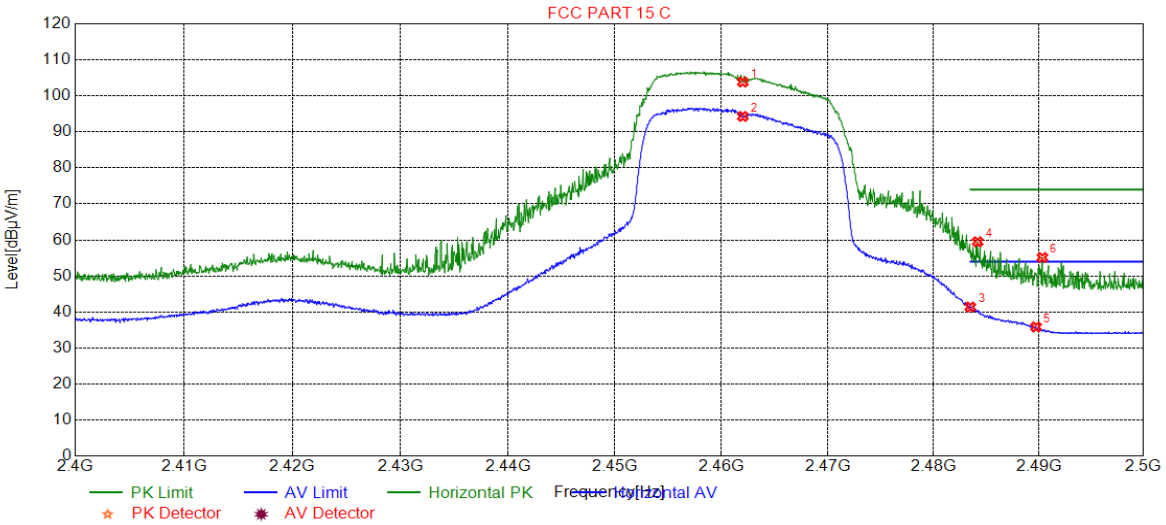
4.10.1.12 802.11N20_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	103.83	7.98	0.00	-103.83	184	210	Horizontal
2	2462.00	94.28	7.98	0.00	-94.28	148	204	Horizontal
3	2483.50	41.39	8.01	54.00	12.61	187	204	Horizontal
4	2484.19	59.49	8.01	74.00	14.51	150	210	Horizontal
5	2489.74	35.85	8.02	54.00	18.15	135	210	Horizontal
6	2490.34	55.12	8.02	74.00	18.88	234	336	Horizontal

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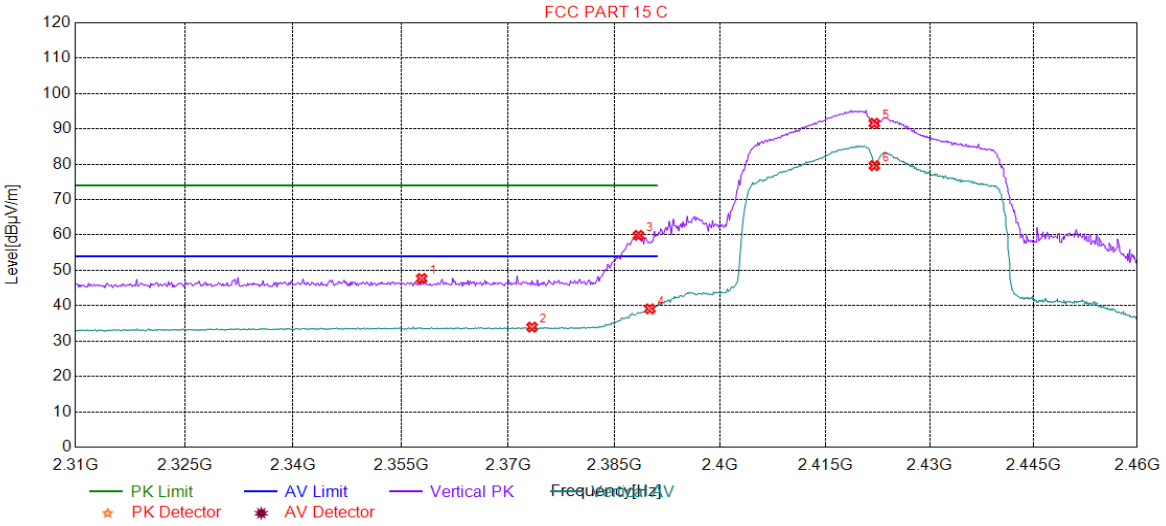
4.10.1.13 802.11N40_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2357.89	47.72	7.80	74.00	26.28	246	358	Vertical
2	2373.36	33.95	7.79	54.00	20.05	150	180	Vertical
3	2388.37	59.90	7.77	74.00	14.10	153	342	Vertical
4	2390.00	39.12	7.77	54.00	14.88	264	38	Vertical
5	2422.00	91.60	7.85	0.00	-91.60	233	42	Vertical
6	2422.00	79.61	7.85	0.00	-79.61	269	42	Vertical

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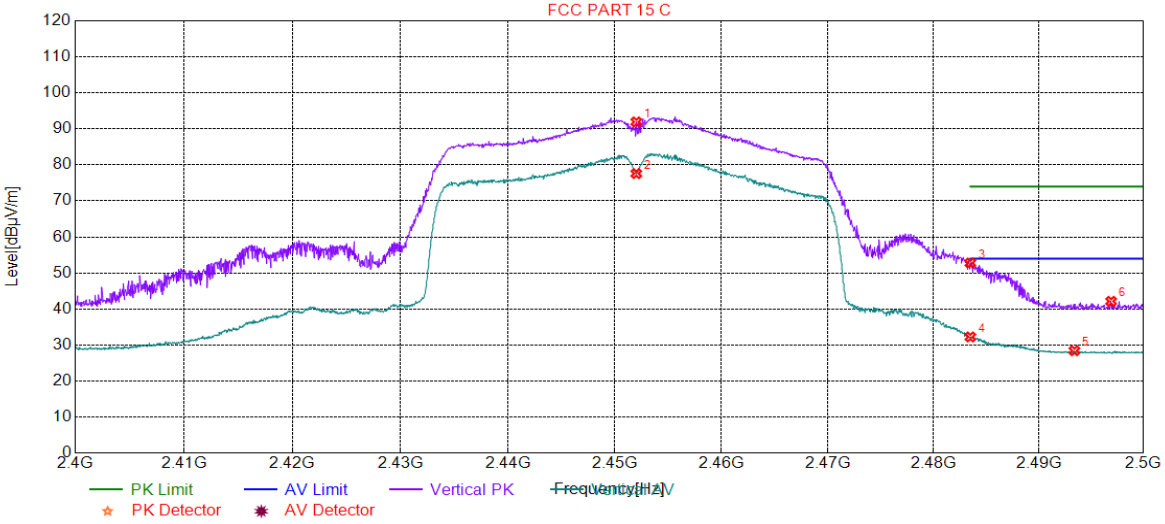
4.10.1.14 802.11N40_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	91.93	7.97	0.00	-91.93	281	340	Vertical
2	2452.00	77.59	7.97	0.00	-77.59	164	340	Vertical
3	2483.50	52.78	8.01	74.00	21.22	193	14	Vertical
4	2483.50	32.24	8.01	54.00	21.76	195	14	Vertical
5	2493.39	28.42	8.02	54.00	25.58	283	107	Vertical
6	2496.89	42.13	8.03	74.00	31.87	180	352	Vertical

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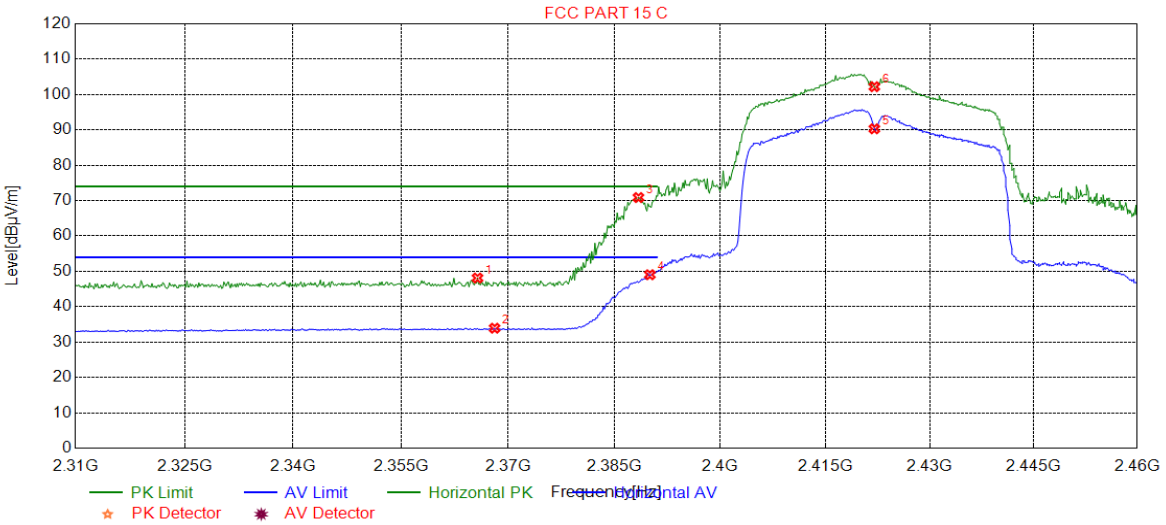
4.10.1.15 802.11N40_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.70	48.12	7.79	74.00	25.88	161	256	Horizontal
2	2368.10	33.93	7.79	54.00	20.07	242	94	Horizontal
3	2388.37	70.87	7.77	74.00	3.13	115	210	Horizontal
4	2390.00	49.05	7.77	54.00	4.95	174	210	Horizontal
5	2422.00	90.30	7.85	0.00	-90.30	240	210	Horizontal
6	2422.00	102.21	7.85	0.00	-102.21	100	214	Horizontal

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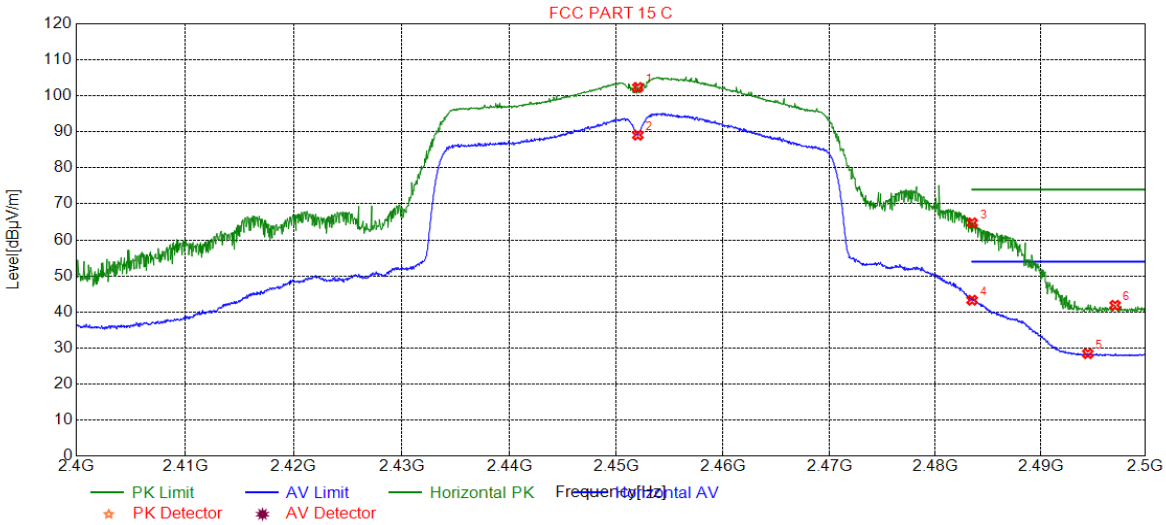
4.10.1.16 802.11N40_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	102.34	7.97	0.00	-102.34	127	210	Horizontal
2	2452.00	89.10	7.97	0.00	-89.10	248	204	Horizontal
3	2483.50	64.76	8.01	74.00	9.24	182	204	Horizontal
4	2483.50	43.28	8.01	54.00	10.72	246	204	Horizontal
5	2494.49	28.45	8.02	54.00	25.55	246	204	Horizontal
6	2497.09	41.86	8.03	74.00	32.14	118	30	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.

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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)

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6 Equipment List

Conducted Emission					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-03	2019-12-11	2020-12-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

RF conducted test					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. date (yyyy-mm-dd)**	**Cal.Duedate (yyyy-mm-dd)**
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
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	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14

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RSE Test System					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2019-06-27	2020-06-26
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/40003.

The End

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