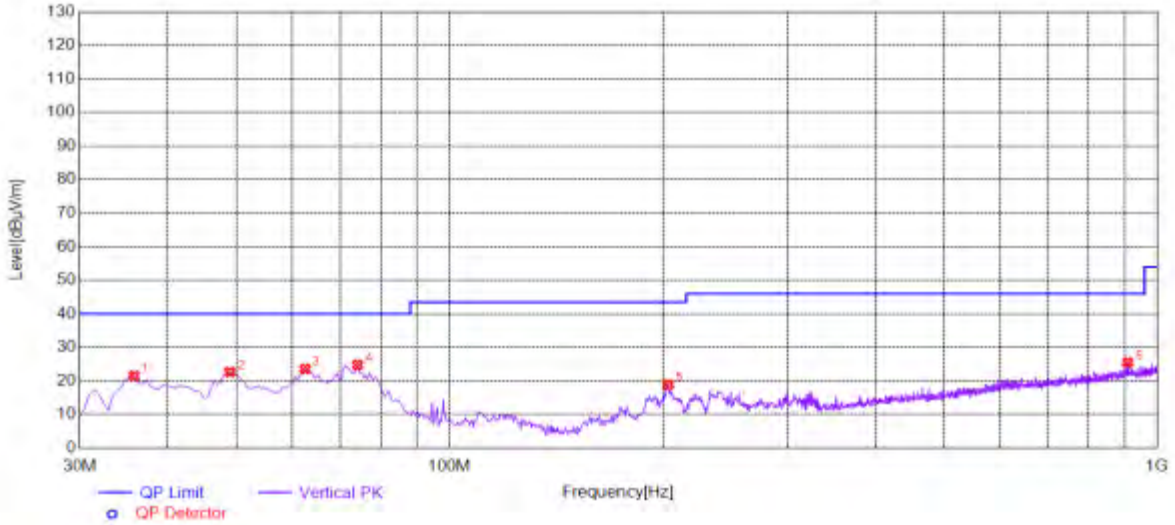
4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8229	21.57	-32.50	40.00	18.43	213	159	Vertical
2	48.9245	22.67	-30.19	40.00	17.33	247	344	Vertical
3	62.5113	23.61	-32.29	40.00	16.39	188	286	Vertical
4	74.1571	24.82	-34.88	40.00	15.18	278	249	Vertical
5	203.716	18.98	-30.74	43.50	24.52	189	313	Vertical
6	909.259	25.56	-15.09	46.00	20.44	170	65	Vertical

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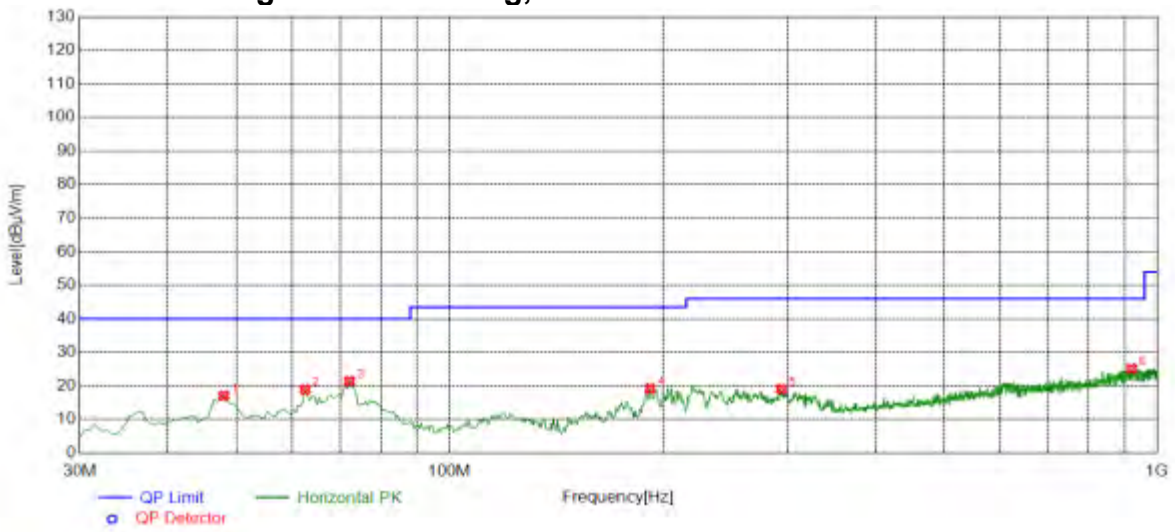
4.9.1.2 Charge + Transmitting, Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.9540	17.13	-30.19	40.00	22.87	143	100	Horizontal
2	62.5113	18.97	-32.29	40.00	21.03	215	162	Horizontal
3	72.2161	21.46	-34.54	40.00	18.54	157	25	Horizontal
4	192.071	19.24	-31.66	43.50	24.26	142	230	Horizontal
5	294.457	19.06	-28.02	46.00	26.94	163	108	Horizontal
6	920.420	25.16	-14.92	46.00	20.84	226	106	Horizontal

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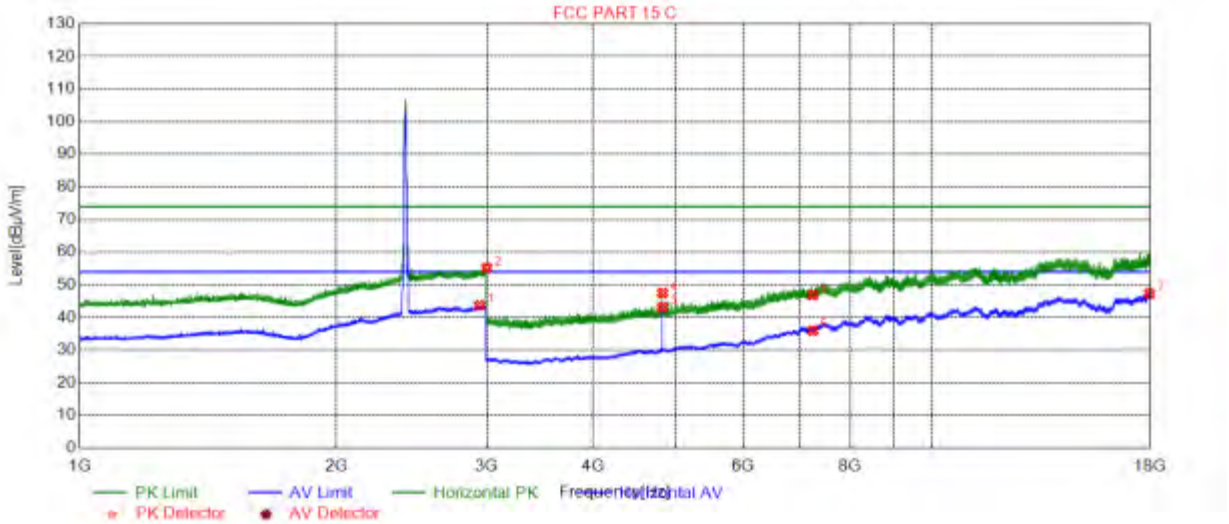
4.9.2 Transmitter emission above 1GHz

4.9.2.1 ANT1

4.9.2.1.1 802.11B_Lowest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.98	43.72	9.62	54.00	10.28	207	219	Horizontal
2	2999.49	55.21	9.45	74.00	18.79	233	54	Horizontal
3	4824.00	43.16	-18.21	54.00	10.84	136	315	Horizontal
4	4824.00	47.52	-18.21	74.00	26.48	145	288	Horizontal
5	7236.00	46.96	-9.99	74.00	27.04	237	267	Horizontal
6	7236.00	36.01	-9.99	54.00	17.99	215	360	Horizontal
7	17960.9	47.34	0.71	54.00	6.66	165	68	Horizontal

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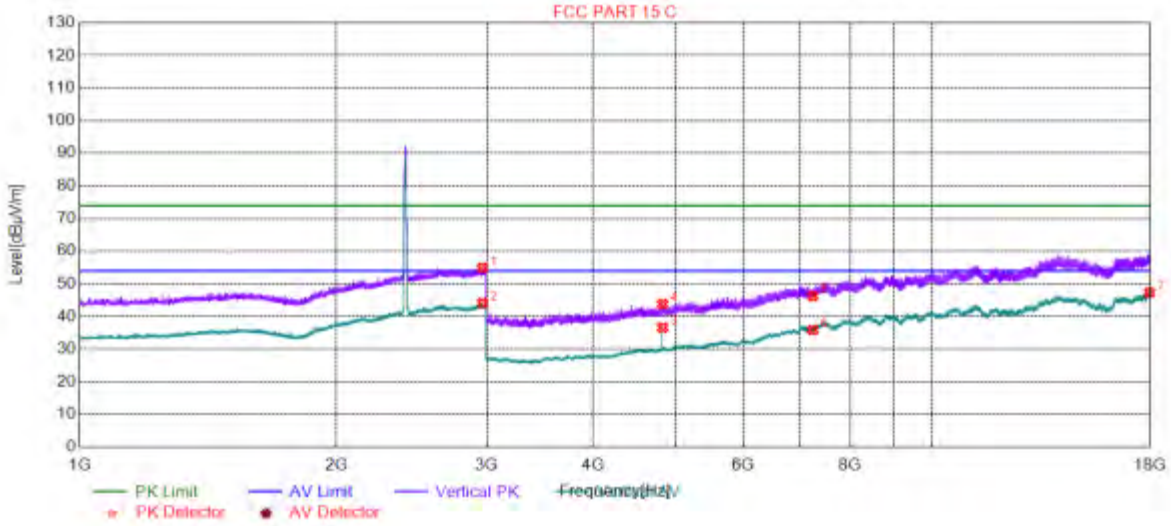
4.9.2.1.2 802.11B_Lowest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2965.49	54.94	9.61	74.00	19.06	162	114	Vertical
2	2965.99	44.20	9.61	54.00	9.80	201	114	Vertical
3	4824.00	36.65	-18.21	54.00	17.35	219	179	Vertical
4	4824.00	43.84	-18.21	74.00	30.16	273	288	Vertical
5	7236.00	46.25	-9.99	74.00	27.75	298	217	Vertical
6	7236.00	35.90	-9.99	54.00	18.10	195	68	Vertical
7	17957.6	47.38	0.71	54.00	6.62	175	316	Vertical

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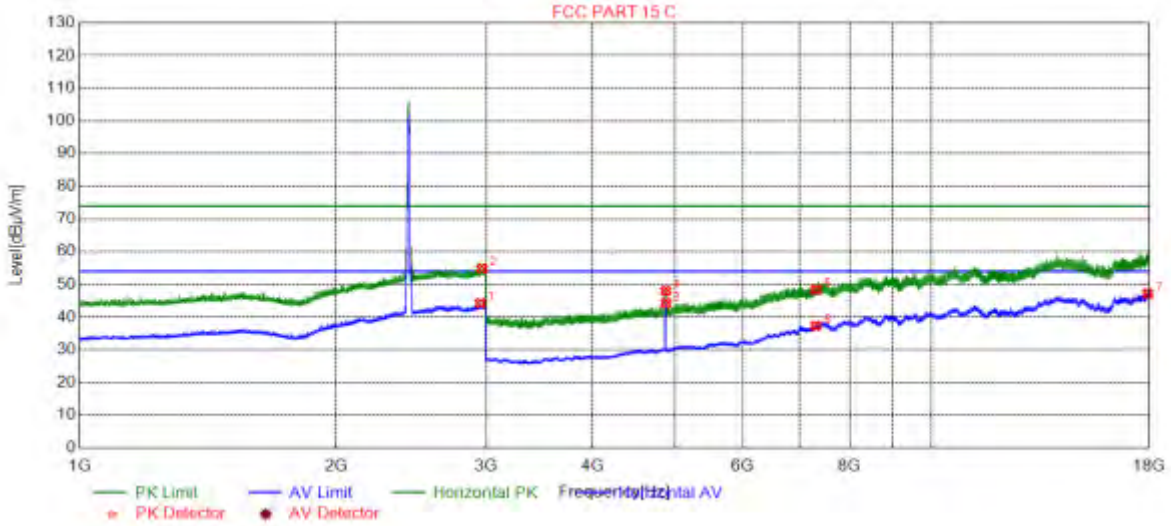
4.9.2.1.3 802.11B_ Middle Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2952.98	44.23	9.67	54.00	9.77	190	136	Horizontal
2	2965.99	54.86	9.61	74.00	19.14	145	260	Horizontal
3	4874.00	44.26	-17.99	54.00	9.74	234	315	Horizontal
4	4874.00	48.03	-17.99	74.00	25.97	142	288	Horizontal
5	7311.00	48.43	-9.74	74.00	25.57	186	68	Horizontal
6	7311.00	37.35	-9.74	54.00	16.65	142	18	Horizontal
7	17916.9	47.24	0.70	54.00	6.76	210	18	Horizontal

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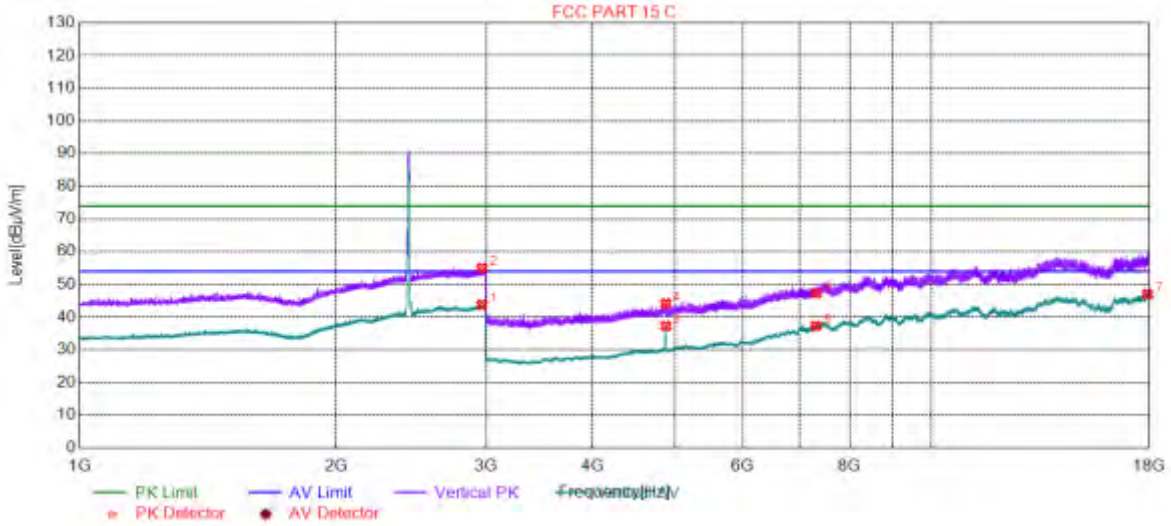
4.9.2.1.4 802.11B_ Middle Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2964.99	43.80	9.61	54.00	10.20	190	59	Vertical
2	2965.49	55.01	9.61	74.00	18.99	286	113	Vertical
3	4874.00	37.33	-17.99	54.00	16.67	252	178	Vertical
4	4874.00	44.16	-17.99	74.00	29.84	178	151	Vertical
5	7311.00	37.36	-9.74	54.00	16.64	246	359	Vertical
6	7311.00	47.35	-9.74	74.00	26.65	273	359	Vertical
7	17905.9	47.05	0.69	54.00	6.95	236	18	Vertical

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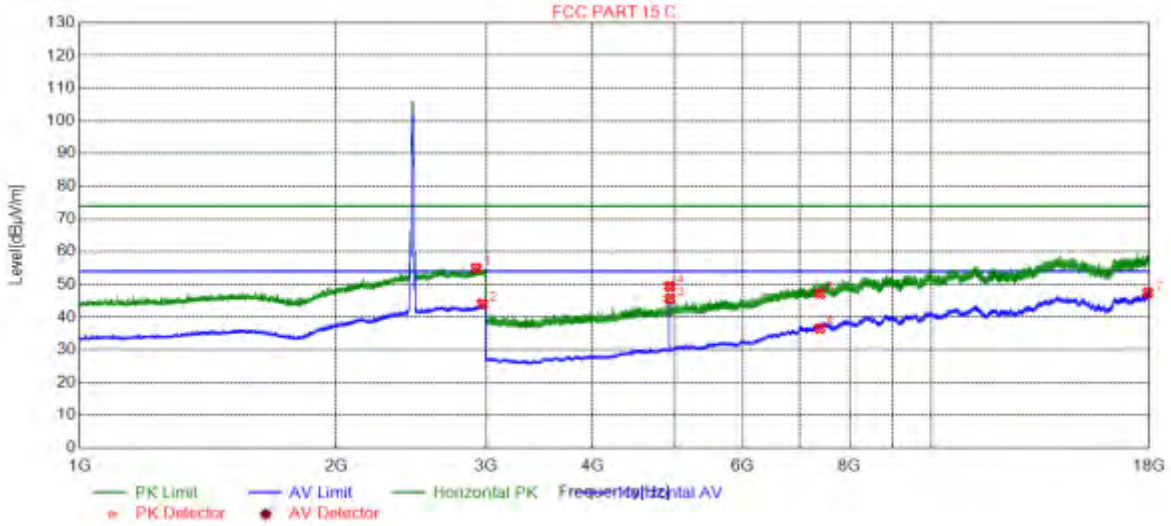
4.9.2.1.5 802.11B_ Highest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2917.97	55.03	9.33	74.00	18.97	114	273	Horizontal
2	2969.49	44.09	9.59	54.00	9.91	191	218	Horizontal
3	4924.00	45.59	-17.72	54.00	8.41	182	288	Horizontal
4	4924.00	49.42	-17.72	74.00	24.58	114	288	Horizontal
5	7386.00	47.18	-9.55	74.00	26.82	207	68	Horizontal
6	7386.00	36.54	-9.55	54.00	17.46	102	267	Horizontal
7	17917.4	47.47	0.70	54.00	6.53	206	118	Horizontal

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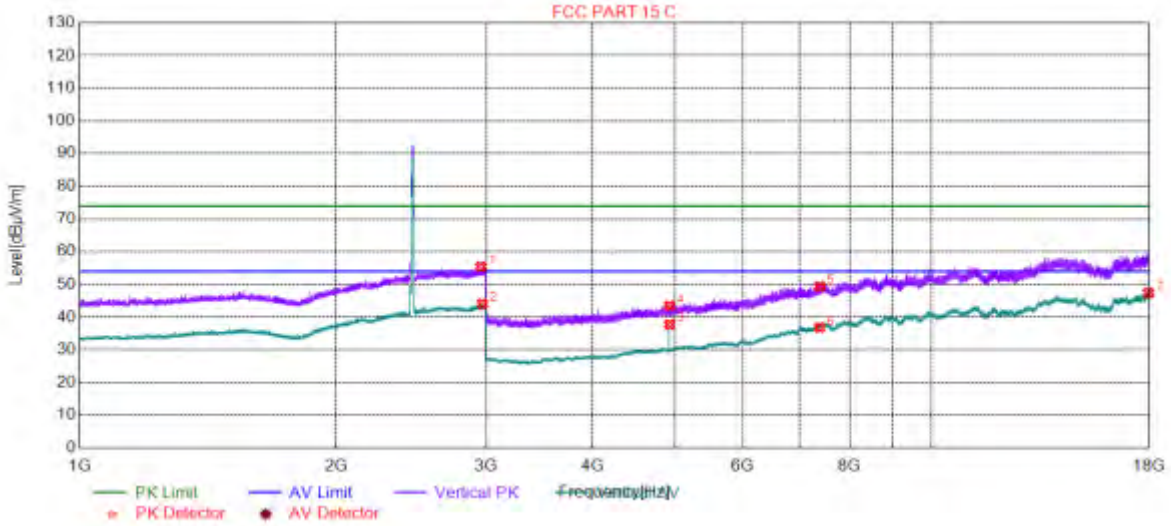
4.9.2.1.6 802.11B_ Highest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2956.98	55.41	9.65	74.00	18.59	272	306	Vertical
2	2968.49	44.08	9.59	54.00	9.92	230	141	Vertical
3	4924.00	37.77	-17.72	54.00	16.23	260	180	Vertical
4	4924.00	43.48	-17.72	74.00	30.52	161	154	Vertical
5	7386.00	49.38	-9.55	74.00	24.62	289	359	Vertical
6	7386.00	36.81	-9.55	54.00	17.19	272	167	Vertical
7	17957.0	47.45	0.71	54.00	6.55	164	266	Vertical

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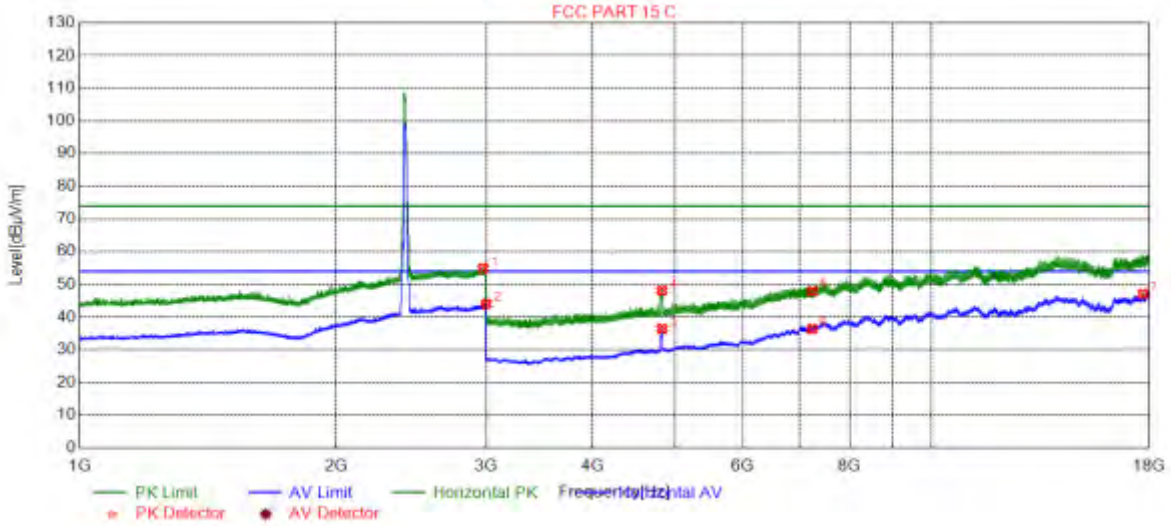
4.9.2.1.7 802.11G_Lowest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2973.99	54.98	9.57	74.00	19.02	221	327	Horizontal
2	3000.00	44.06	9.45	54.00	9.94	170	327	Horizontal
3	4824.00	36.44	-18.21	54.00	17.56	166	43	Horizontal
4	4824.00	48.09	-18.21	74.00	25.91	169	43	Horizontal
5	7236.00	47.87	-9.99	74.00	26.13	126	359	Horizontal
6	7236.00	36.37	-9.99	54.00	17.63	181	68	Horizontal
7	17698.5	47.15	1.36	54.00	6.85	222	18	Horizontal

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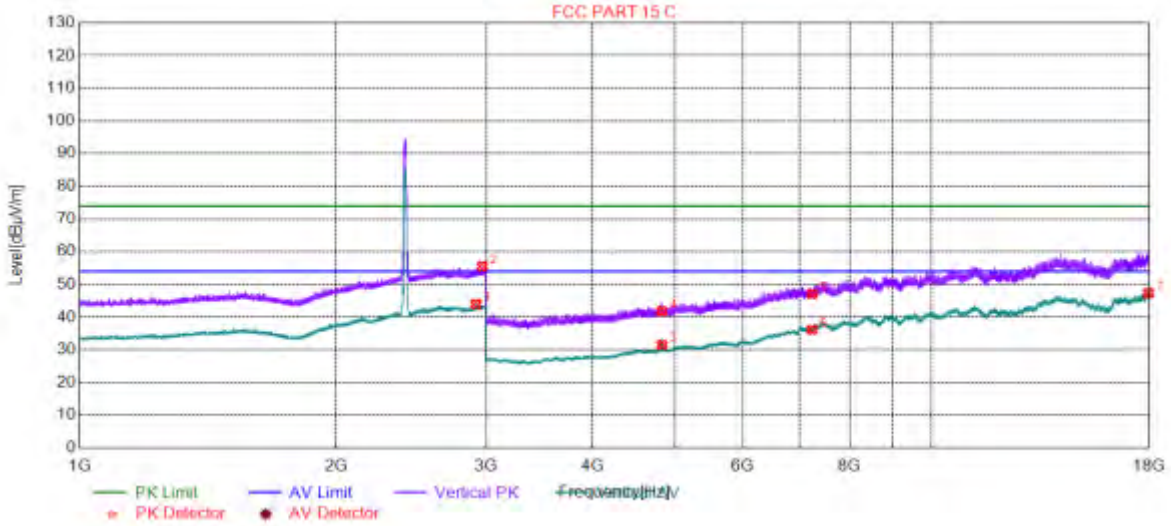
4.9.2.1.8 802.11G_Lowest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2918.97	44.00	9.34	54.00	10.00	251	18	Vertical
2	2968.49	55.56	9.59	74.00	18.44	228	360	Vertical
3	4824.00	31.53	-18.21	54.00	22.47	275	287	Vertical
4	4824.00	41.87	-18.21	74.00	32.13	255	124	Vertical
5	7236.00	47.13	-9.99	74.00	26.87	269	18	Vertical
6	7236.00	36.19	-9.99	54.00	17.81	151	317	Vertical
7	17957.0	47.37	0.71	54.00	6.63	215	118	Vertical

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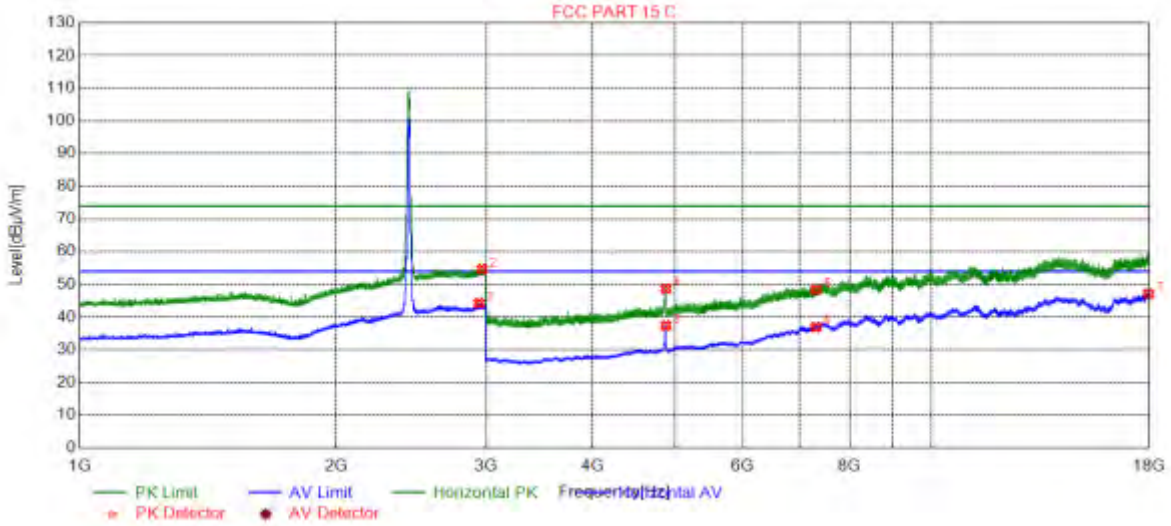
4.9.2.1.9 802.11G_ Middle Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.98	44.25	9.60	54.00	9.75	198	28	Horizontal
2	2965.99	54.68	9.61	74.00	19.32	186	165	Horizontal
3	4874.00	37.43	-17.99	54.00	16.57	242	260	Horizontal
4	4874.00	48.71	-17.99	74.00	25.29	191	234	Horizontal
5	7311.00	48.43	-9.74	74.00	25.57	185	265	Horizontal
6	7311.00	36.97	-9.74	54.00	17.03	218	166	Horizontal
7	17962.5	47.16	0.71	54.00	6.84	241	265	Horizontal

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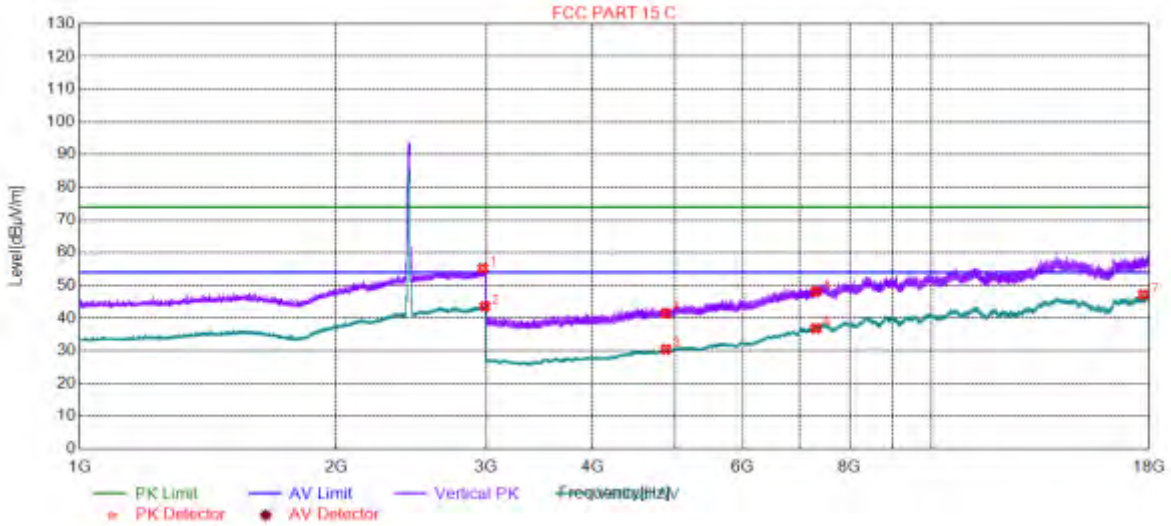
4.9.2.1.10 802.11G_ Middle Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2971.99	55.28	9.58	74.00	18.72	234	45	Vertical
2	2989.49	43.62	9.50	54.00	10.38	180	45	Vertical
3	4874.00	30.51	-17.99	54.00	23.49	265	315	Vertical
4	4874.00	41.49	-17.99	74.00	32.51	161	206	Vertical
5	7311.00	48.13	-9.74	74.00	25.87	185	267	Vertical
6	7311.00	36.90	-9.74	54.00	17.10	212	267	Vertical
7	17706.2	47.24	1.23	54.00	6.76	201	117	Vertical

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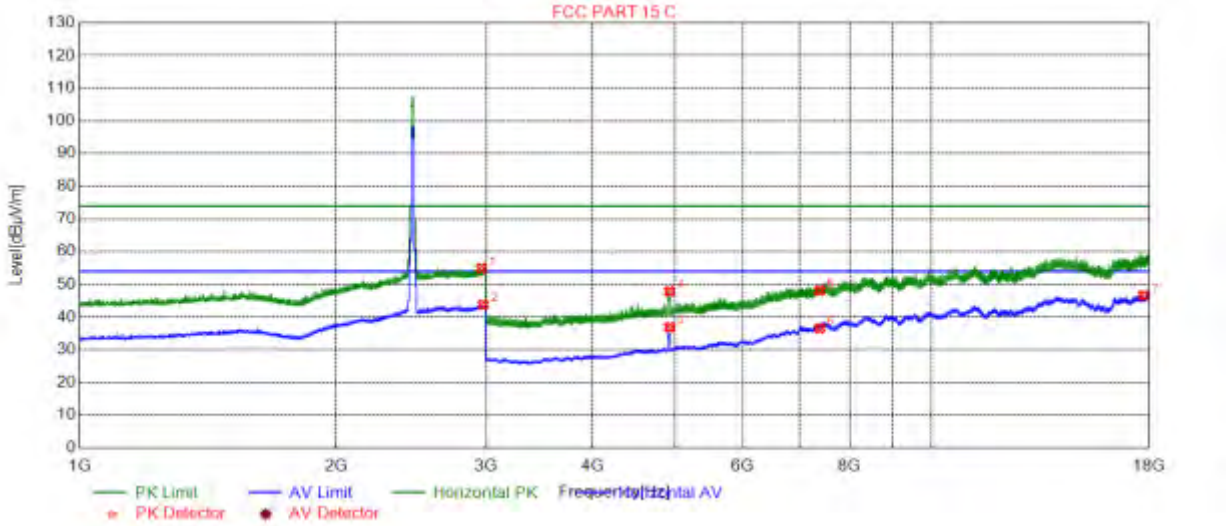
4.9.2.1.11 802.11G_ Highest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2960.99	54.99	9.63	74.00	19.01	110	192	Horizontal
2	2975.49	43.82	9.56	54.00	10.18	197	329	Horizontal
3	4924.00	36.93	-17.72	54.00	17.07	146	342	Horizontal
4	4924.00	47.87	-17.72	74.00	26.13	241	69	Horizontal
5	7386.00	48.11	-9.55	74.00	25.89	144	316	Horizontal
6	7386.00	36.61	-9.55	54.00	17.39	153	267	Horizontal
7	17721.1	46.65	0.94	54.00	7.35	232	267	Horizontal

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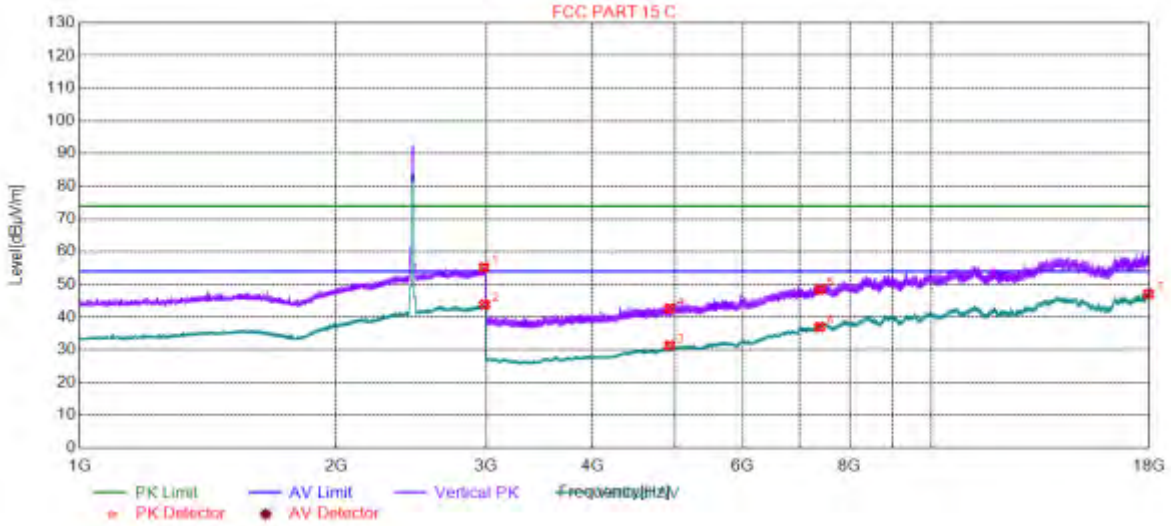
4.9.2.1.12 802.11G_ Highest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2979.99	55.17	9.54	74.00	18.83	210	317	Vertical
2	2986.49	43.80	9.51	54.00	10.20	298	248	Vertical
3	4924.00	31.32	-17.72	54.00	22.68	244	288	Vertical
4	4924.00	42.61	-17.72	74.00	31.39	236	15	Vertical
5	7386.00	48.46	-9.55	74.00	25.54	270	118	Vertical
6	7386.00	37.01	-9.55	54.00	16.99	249	18	Vertical
7	17954.8	47.13	0.71	54.00	6.87	191	317	Vertical

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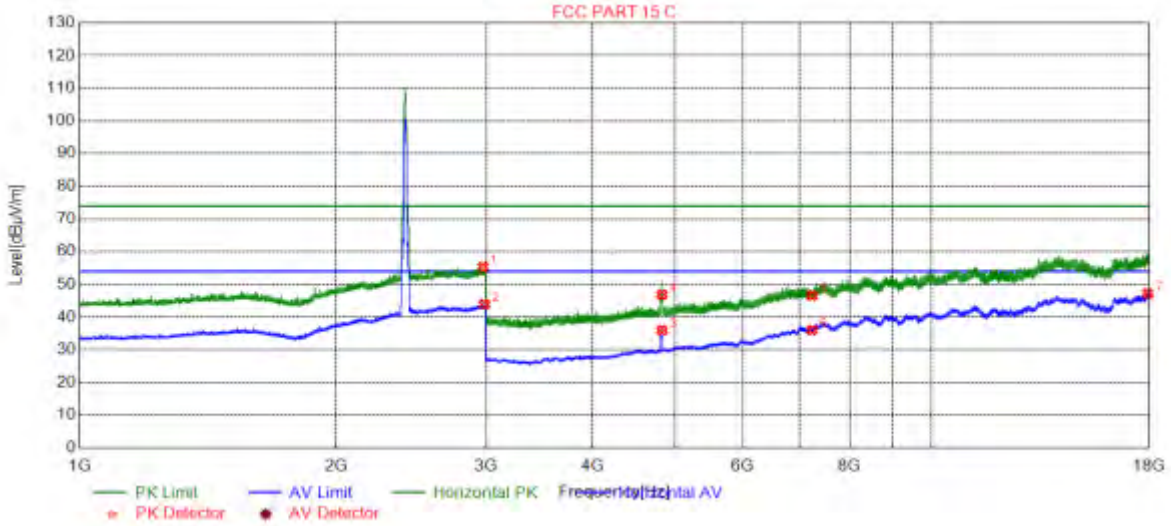
4.9.2.1.13 802.11N20_Lowest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2972.99	55.32	9.57	74.00	18.68	176	342	Horizontal
2	2985.49	43.91	9.52	54.00	10.09	242	15	Horizontal
3	4824.00	36.02	-18.21	54.00	17.98	196	44	Horizontal
4	4824.00	46.86	-18.21	74.00	27.14	203	342	Horizontal
5	7236.00	46.61	-9.99	74.00	27.39	167	267	Horizontal
6	7236.00	36.04	-9.99	54.00	17.96	115	217	Horizontal
7	17919.6	47.28	0.70	54.00	6.72	238	68	Horizontal

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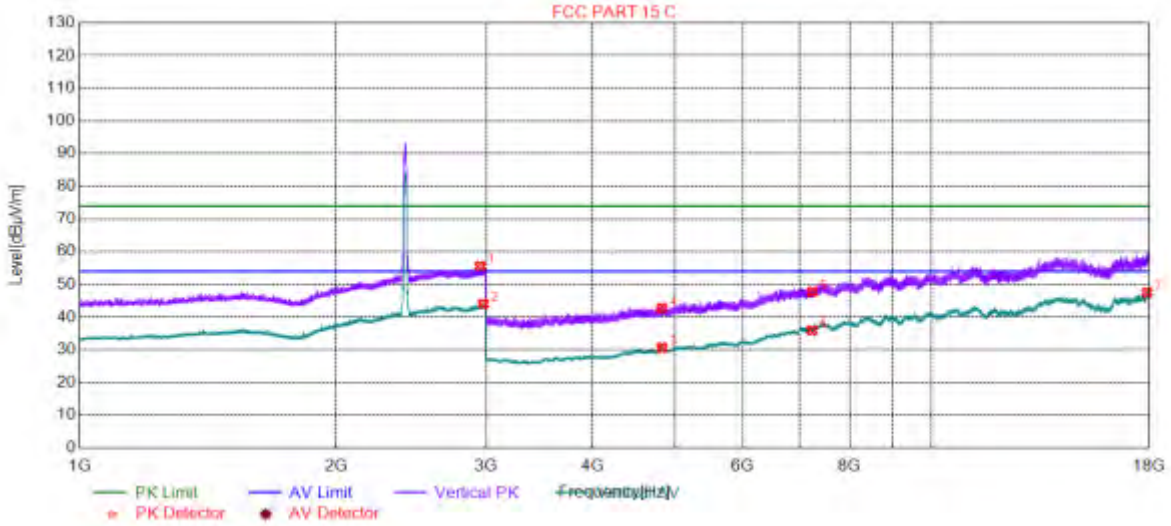
4.9.2.1.14 802.11N20_Lowest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.48	55.60	9.67	74.00	18.40	275	319	Vertical
2	2976.49	44.05	9.56	54.00	9.95	152	357	Vertical
3	4824.00	30.67	-18.21	54.00	23.33	286	152	Vertical
4	4824.00	42.77	-18.21	74.00	31.23	284	152	Vertical
5	7236.00	47.74	-9.99	74.00	26.26	183	18	Vertical
6	7236.00	35.95	-9.99	54.00	18.05	217	18	Vertical
7	17883.9	47.55	0.48	54.00	6.45	297	68	Vertical

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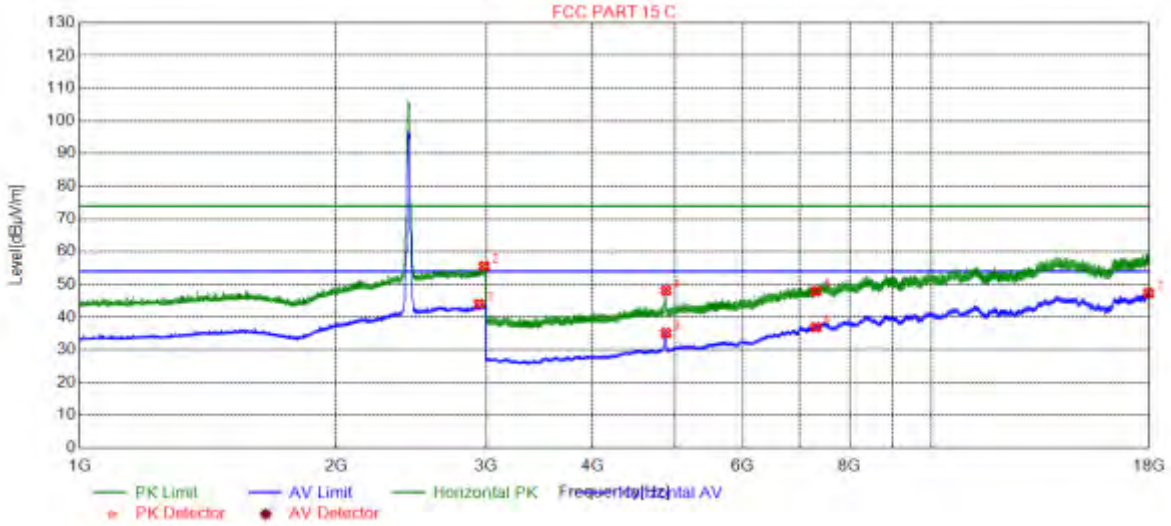
4.9.2.1.15 802.11N20_ Middle Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.48	44.02	9.61	54.00	9.98	242	68	Horizontal
2	2982.99	55.60	9.53	74.00	18.40	141	329	Horizontal
3	4874.00	35.18	-17.99	54.00	18.82	102	0	Horizontal
4	4874.00	48.15	-17.99	74.00	25.85	192	0	Horizontal
5	7311.00	47.91	-9.74	74.00	26.09	143	18	Horizontal
6	7311.00	36.89	-9.74	54.00	17.11	203	68	Horizontal
7	17961.4	47.36	0.71	54.00	6.64	175	118	Horizontal

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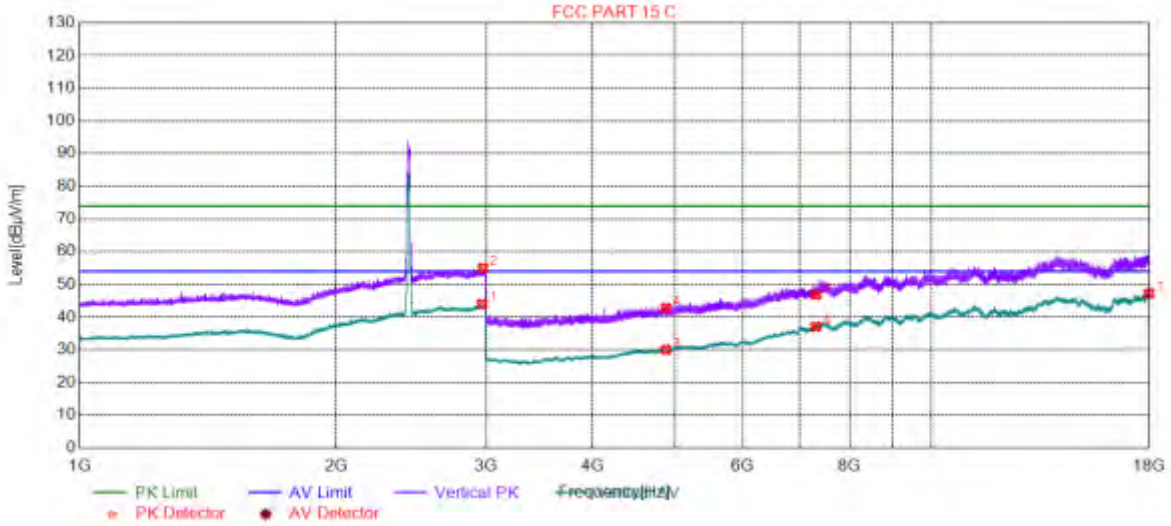
4.9.2.1.16 802.11N20_ Middle Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2965.49	44.04	9.61	54.00	9.96	196	278	Vertical
2	2972.49	55.02	9.58	74.00	18.98	190	183	Vertical
3	4874.00	30.08	-17.99	54.00	23.92	299	288	Vertical
4	4874.00	42.83	-17.99	74.00	31.17	164	180	Vertical
5	7311.00	46.86	-9.74	74.00	27.14	224	217	Vertical
6	7311.00	37.09	-9.74	54.00	16.91	218	267	Vertical
7	17975.7	47.25	0.71	54.00	6.75	246	267	Vertical

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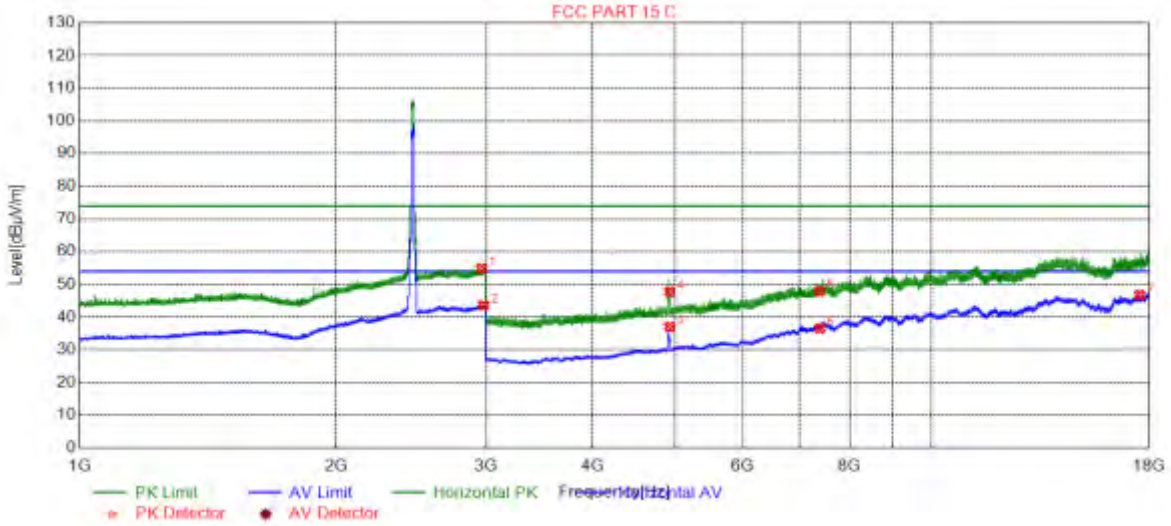
4.9.2.1.17 802.11N20_ Highest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2961.99	54.90	9.62	74.00	19.10	100	178	Horizontal
2	2978.49	43.62	9.55	54.00	10.38	239	219	Horizontal
3	4924.00	37.04	-17.72	54.00	16.96	170	234	Horizontal
4	4924.00	47.76	-17.72	74.00	26.24	193	315	Horizontal
5	7386.00	47.88	-9.55	74.00	26.12	117	359	Horizontal
6	7386.00	36.56	-9.55	54.00	17.44	195	316	Horizontal
7	17524.7	46.81	1.02	54.00	7.19	137	18	Horizontal

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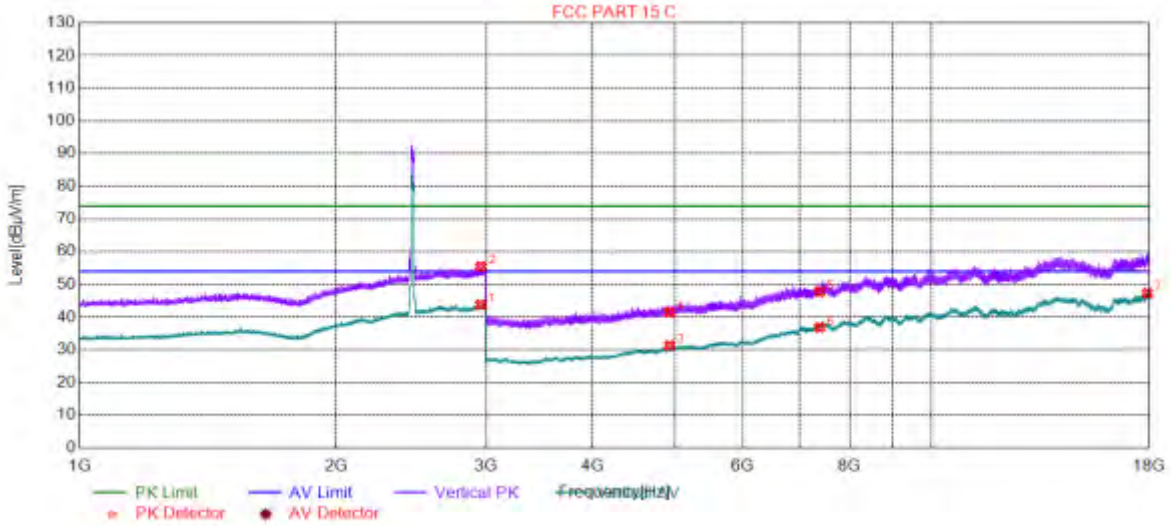
4.9.2.1.18 802.11N20_ Highest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2955.48	43.83	9.65	54.00	10.17	189	346	Vertical
2	2957.98	55.47	9.64	74.00	18.53	246	319	Vertical
3	4924.00	31.33	-17.72	54.00	22.67	226	179	Vertical
4	4924.00	41.48	-17.72	74.00	32.52	219	232	Vertical
5	7386.00	47.78	-9.55	74.00	26.22	168	167	Vertical
6	7386.00	36.83	-9.55	54.00	17.17	193	68	Vertical
7	17894.3	47.34	0.62	54.00	6.66	172	18	Vertical

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:			

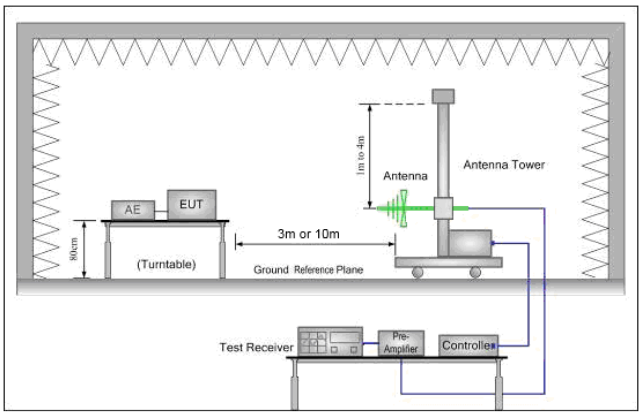

Figure 1. 30MHz to 1GHz

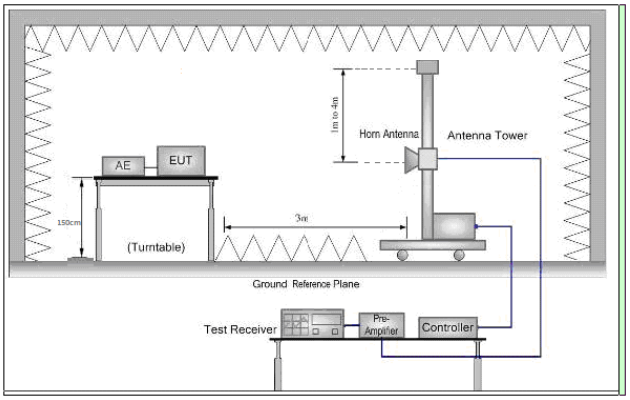

Figure 2. Above 1 GHz

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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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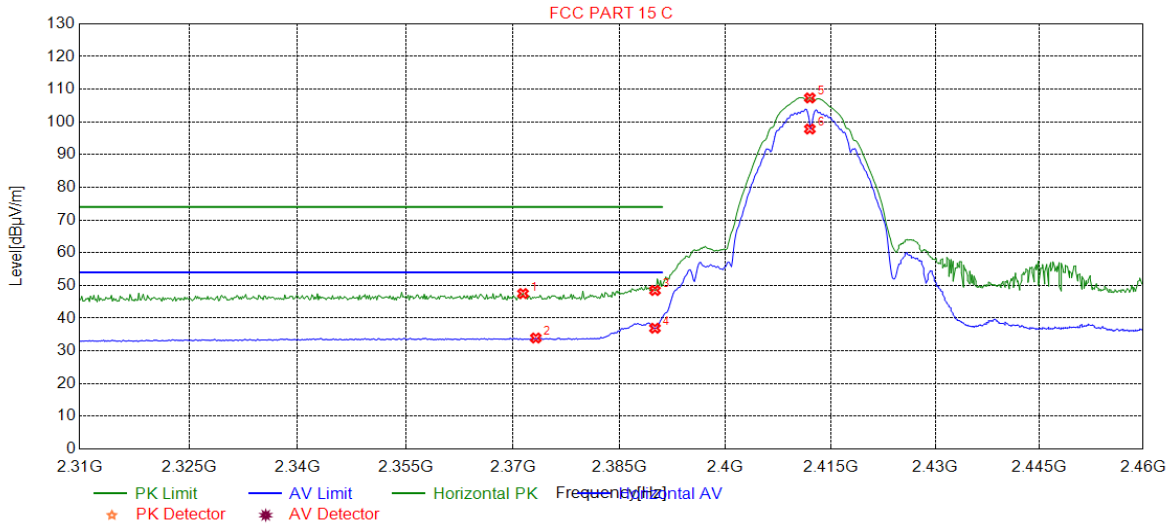
Test plot as follows:

4.10.1 ANT1

4.10.1.1 802.11B_Lowest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.41	47.53	7.79	74.00	26.47	227	260	Horizontal
2	2373.21	33.95	7.79	54.00	20.05	171	182	Horizontal
3	2390.00	48.47	7.77	74.00	25.53	181	137	Horizontal
4	2390.00	36.94	7.77	54.00	17.06	162	38	Horizontal
5	2412.00	107.34	7.81	0.00	-107.34	136	55	Horizontal
6	2412.00	97.83	7.81	0.00	-97.83	222	38	Horizontal

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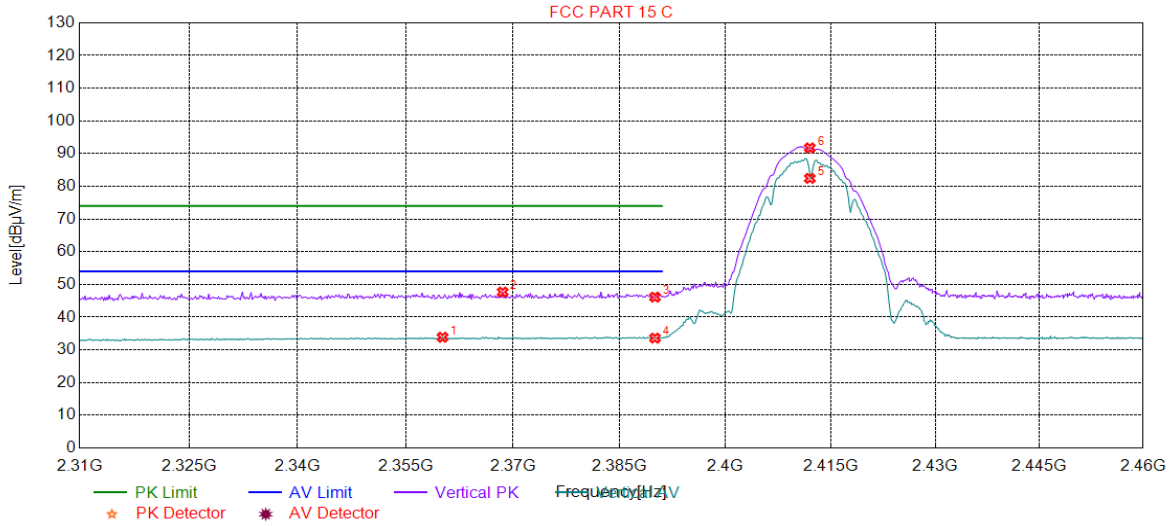
4.10.1.2 802.11B_Lowest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.15	33.86	7.80	54.00	20.14	185	346	Vertical
2	2368.55	47.68	7.79	74.00	26.32	266	249	Vertical
3	2390.00	46.14	7.77	74.00	27.86	214	273	Vertical
4	2390.00	33.60	7.77	54.00	20.40	294	233	Vertical
5	2412.00	82.45	7.81	0.00	-82.45	297	138	Vertical
6	2412.00	91.76	7.81	0.00	-91.76	247	134	Vertical

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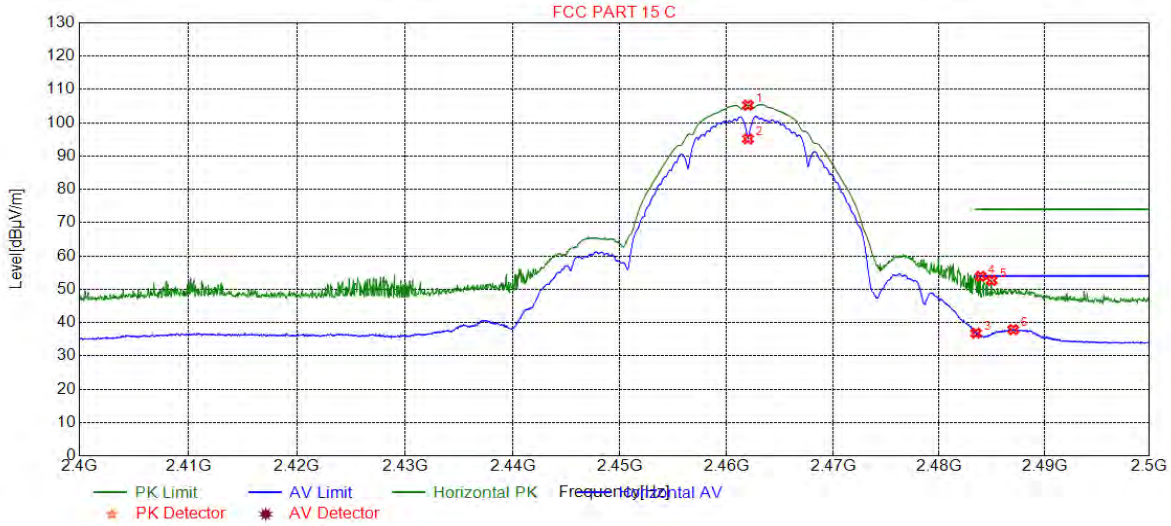
4.10.1.3 802.11B_ Highest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	105.29	7.98	0.00	-105.29	191	57	Horizontal
2	2462.00	95.15	7.98	0.00	-95.15	102	52	Horizontal
3	2483.50	36.87	8.01	54.00	17.13	172	57	Horizontal
4	2483.94	53.91	8.01	74.00	20.09	110	52	Horizontal
5	2484.99	52.69	8.01	74.00	21.31	235	57	Horizontal
6	2487.04	37.92	8.01	54.00	16.08	205	63	Horizontal

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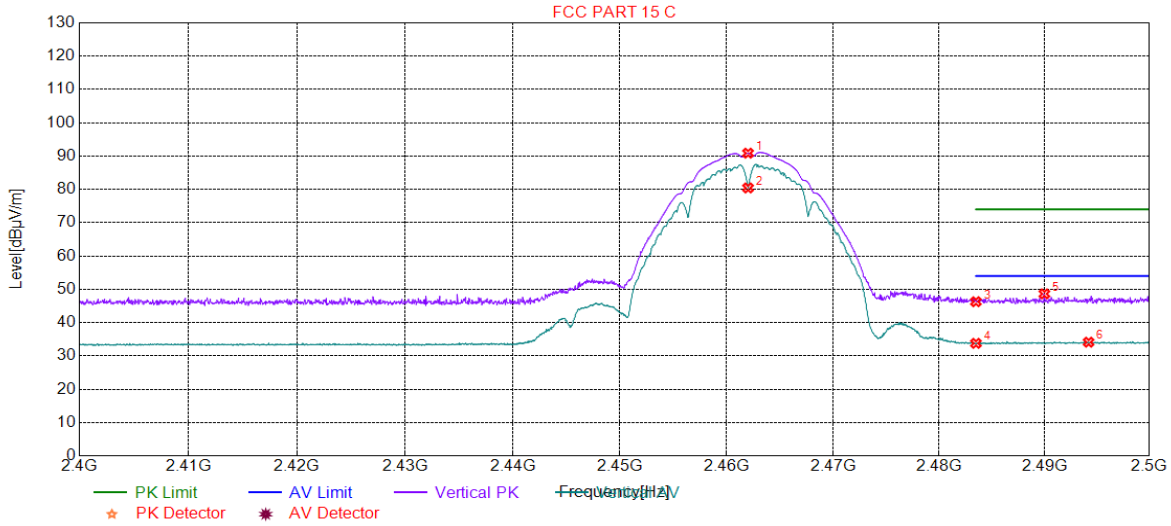
4.10.1.4 802.11B_ Highest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	90.88	7.98	0.00	-90.88	165	159	Vertical
2	2462.00	80.44	7.98	0.00	-80.44	178	159	Vertical
3	2483.50	46.30	8.01	74.00	27.70	186	325	Vertical
4	2483.50	33.80	8.01	54.00	20.20	289	198	Vertical
5	2489.99	48.66	8.02	74.00	25.34	256	33	Vertical
6	2494.19	34.15	8.02	54.00	19.85	159	39	Vertical

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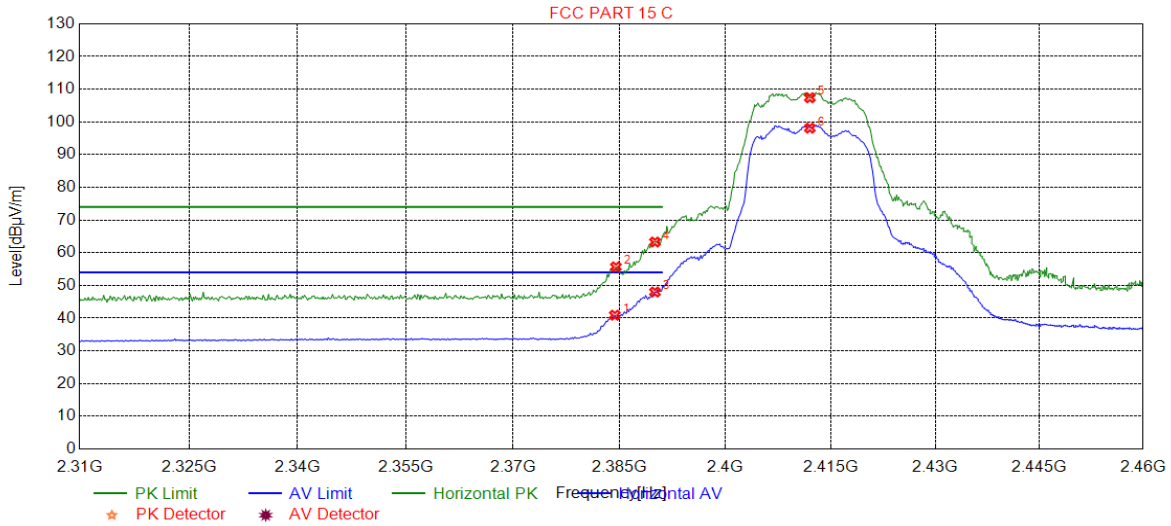
4.10.1.5 802.11G_Lowest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.32	40.92	7.78	54.00	13.08	215	54	Horizontal
2	2384.47	55.70	7.78	74.00	18.30	208	54	Horizontal
3	2390.00	48.01	7.77	54.00	5.99	158	306	Horizontal
4	2390.00	63.30	7.77	74.00	10.70	236	306	Horizontal
5	2412.00	107.41	7.81	0.00	-107.41	164	54	Horizontal
6	2412.00	98.11	7.81	0.00	-98.11	201	54	Horizontal

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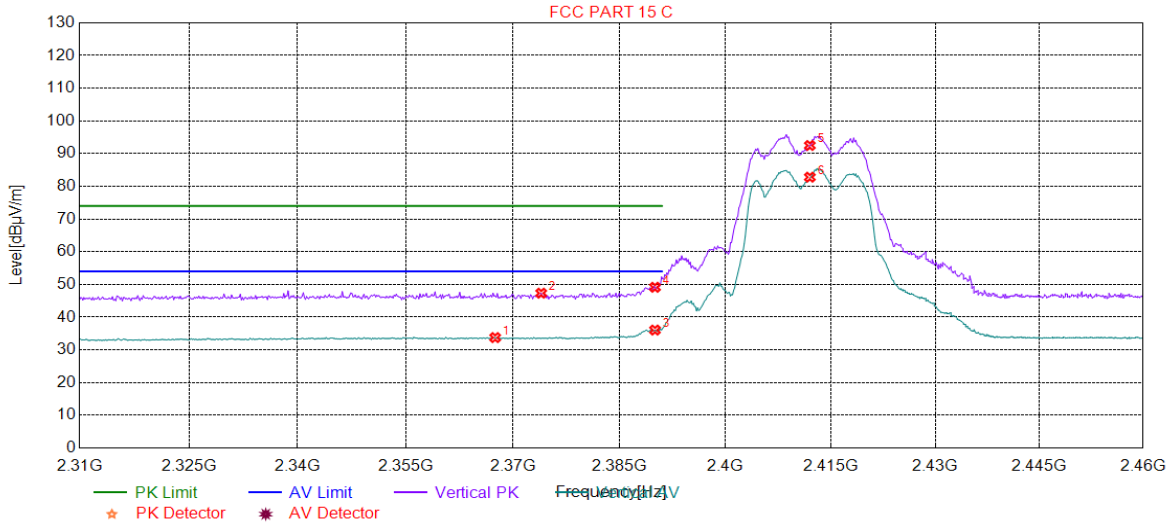
4.10.1.6 802.11G_Lowest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.50	33.77	7.79	54.00	20.23	259	282	Vertical
2	2373.96	47.35	7.79	74.00	26.65	230	179	Vertical
3	2390.00	36.07	7.77	54.00	17.93	238	11	Vertical
4	2390.00	49.15	7.77	74.00	24.85	206	6	Vertical
5	2412.00	92.50	7.81	0.00	-92.50	164	175	Vertical
6	2412.00	82.81	7.81	0.00	-82.81	150	171	Vertical

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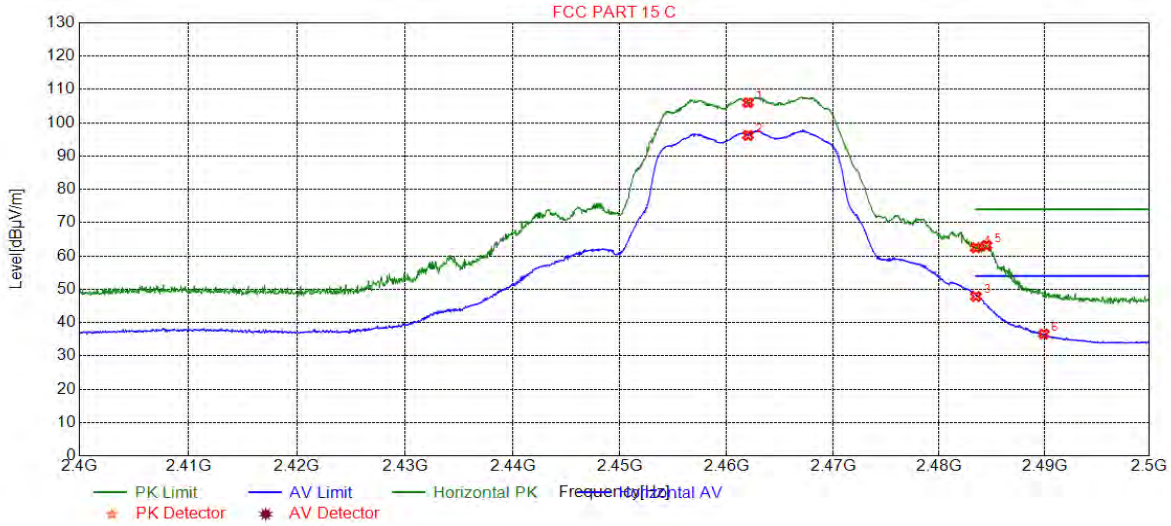
4.10.1.7 802.11G_ Highest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	106.01	7.98	0.00	-106.01	161	61	Horizontal
2	2462.00	96.22	7.98	0.00	-96.22	162	55	Horizontal
3	2483.50	47.86	8.01	54.00	6.14	233	61	Horizontal
4	2483.50	62.50	8.01	74.00	11.50	136	55	Horizontal
5	2484.49	63.14	8.01	74.00	10.86	185	61	Horizontal
6	2489.94	36.60	8.02	54.00	17.40	220	66	Horizontal

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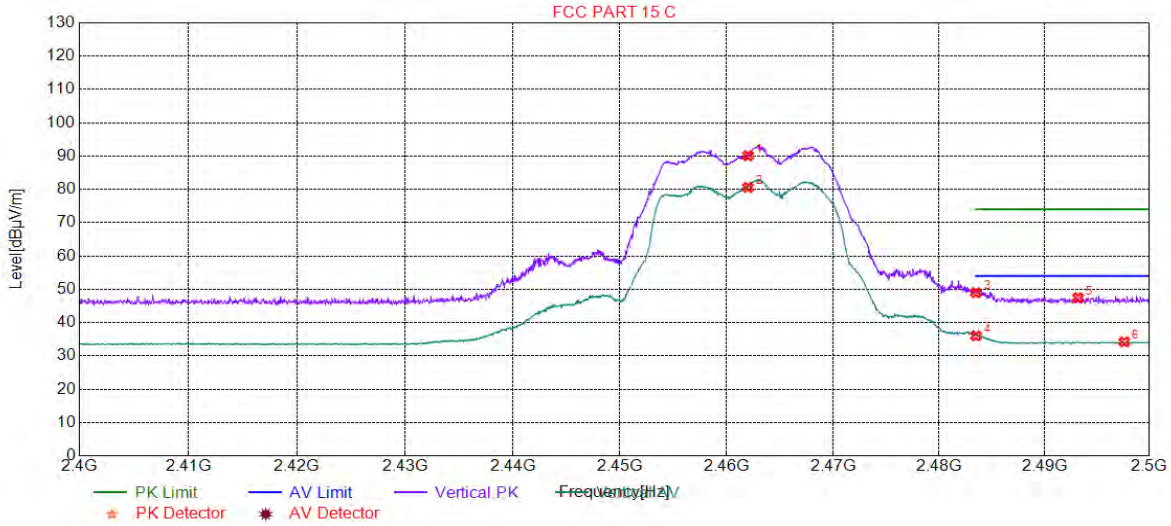
4.10.1.8 802.11G_ Highest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	90.10	7.98	0.00	-90.10	230	238	Vertical
2	2462.00	80.61	7.98	0.00	-80.61	165	238	Vertical
3	2483.50	49.01	8.01	74.00	24.99	153	144	Vertical
4	2483.50	36.06	8.01	54.00	17.94	294	6	Vertical
5	2493.19	47.45	8.02	74.00	26.55	249	264	Vertical
6	2497.59	34.24	8.03	54.00	19.76	212	232	Vertical

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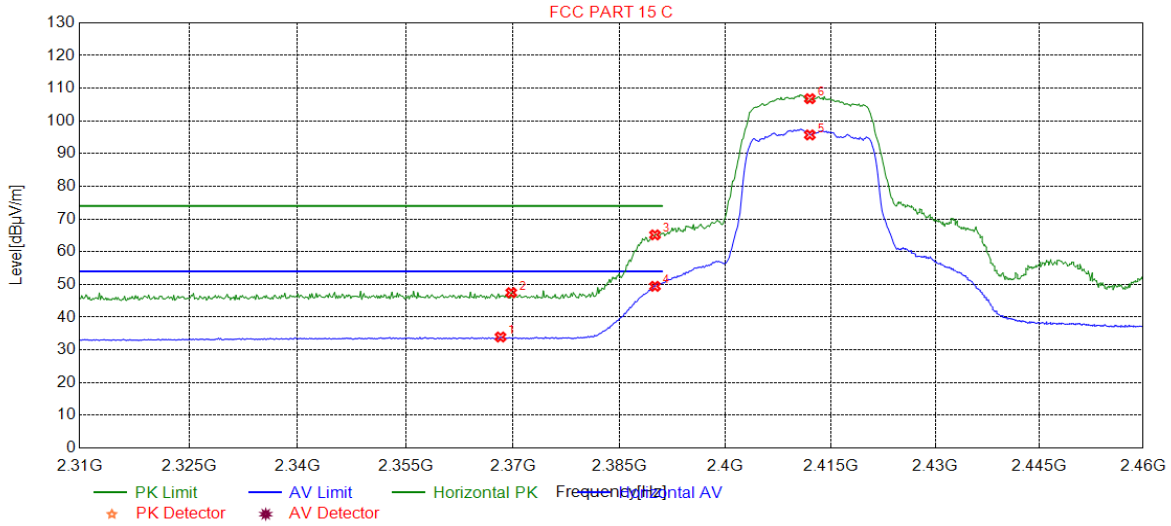
4.10.1.9 802.11N20_ Lowest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2368.25	33.95	7.79	54.00	20.05	139	97	Horizontal
2	2369.75	47.49	7.79	74.00	26.51	245	240	Horizontal
3	2390.00	65.17	7.77	74.00	8.83	233	31	Horizontal
4	2390.00	49.44	7.77	54.00	4.56	232	55	Horizontal
5	2412.00	95.72	7.81	0.00	-95.72	203	51	Horizontal
6	2412.00	106.81	7.81	0.00	-106.81	154	51	Horizontal

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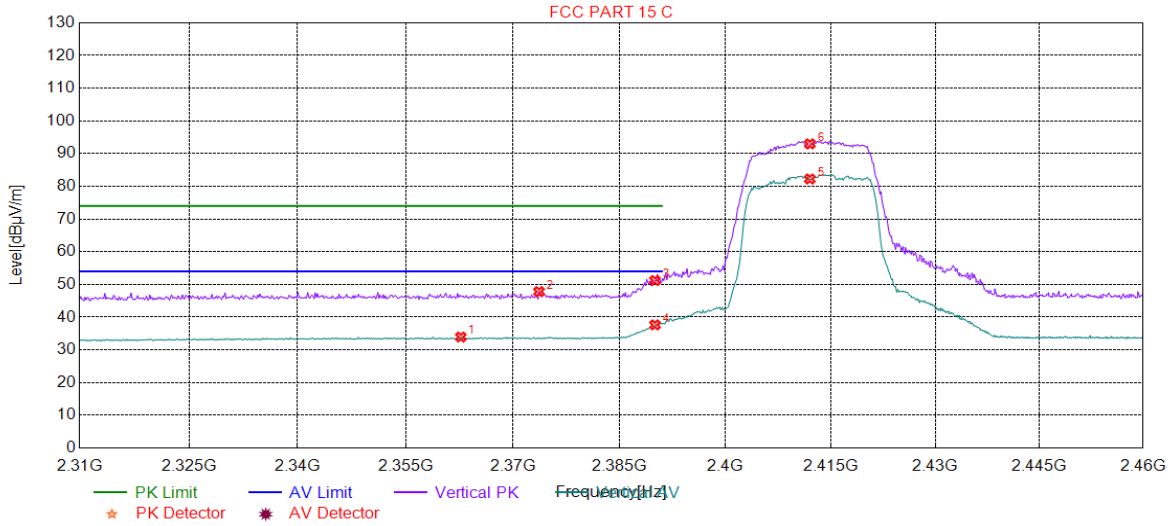
4.10.1.10 802.11N20_Lowest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2362.70	33.94	7.80	54.00	20.06	211	14	Vertical
2	2373.66	47.82	7.79	74.00	26.18	155	282	Vertical
3	2390.00	51.22	7.77	74.00	22.78	201	262	Vertical
4	2390.00	37.66	7.77	54.00	16.34	154	258	Vertical
5	2412.00	82.26	7.81	0.00	-82.26	244	163	Vertical
6	2412.00	93.00	7.81	0.00	-93.00	178	167	Vertical

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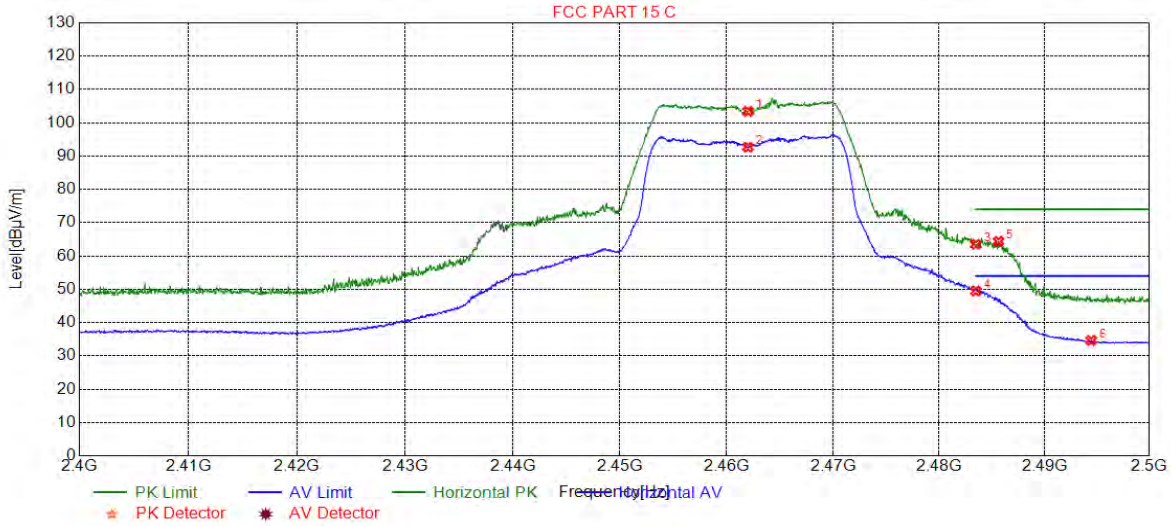
4.10.1.11 802.11N20_ Highest Channel_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	103.44	7.98	0.00	-103.44	170	68	Horizontal
2	2462.00	92.67	7.98	0.00	-92.67	141	98	Horizontal
3	2483.50	63.50	8.01	74.00	10.50	240	62	Horizontal
4	2483.50	49.51	8.01	54.00	4.49	139	57	Horizontal
5	2485.64	64.41	8.01	74.00	9.59	241	68	Horizontal
6	2494.44	34.66	8.02	54.00	19.34	239	52	Horizontal

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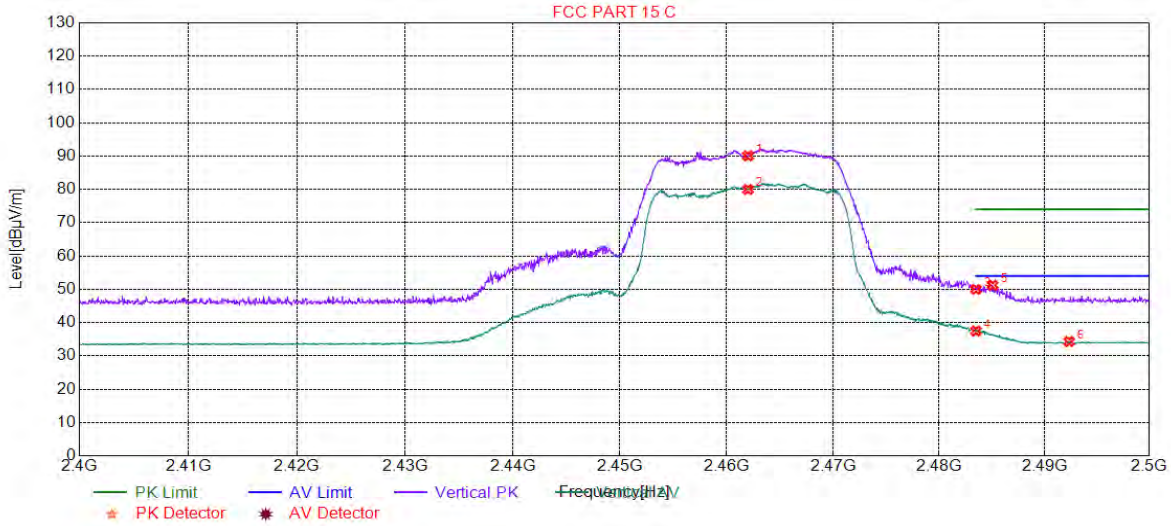
4.10.1.12 802.11N20_ Highest Channel_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	90.07	7.98	0.00	-90.07	254	84	Vertical
2	2462.00	79.99	7.98	0.00	-79.99	186	84	Vertical
3	2483.50	49.99	8.01	74.00	24.01	205	150	Vertical
4	2483.50	37.52	8.01	54.00	16.48	191	150	Vertical
5	2485.09	51.25	8.01	74.00	22.75	196	144	Vertical
6	2492.34	34.35	8.02	54.00	19.65	260	249	Vertical

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	Conduct emission test	± 3.0dB (150kHz to 30MHz)
2	Radiated Spurious emission test	± 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

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	2019/7/12	2020/7/11
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
Power Divider	Anritsu	K240B	996304	N/A	N/A

CE Test System					
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	XAW01-04-01	2019-07-16	2020-07-15
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-11-28	2020-11-28
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

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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	2020-04-02	2021-04-01
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	2019-11-18	2020-11-17
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/2020/50038.

The End

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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com
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