

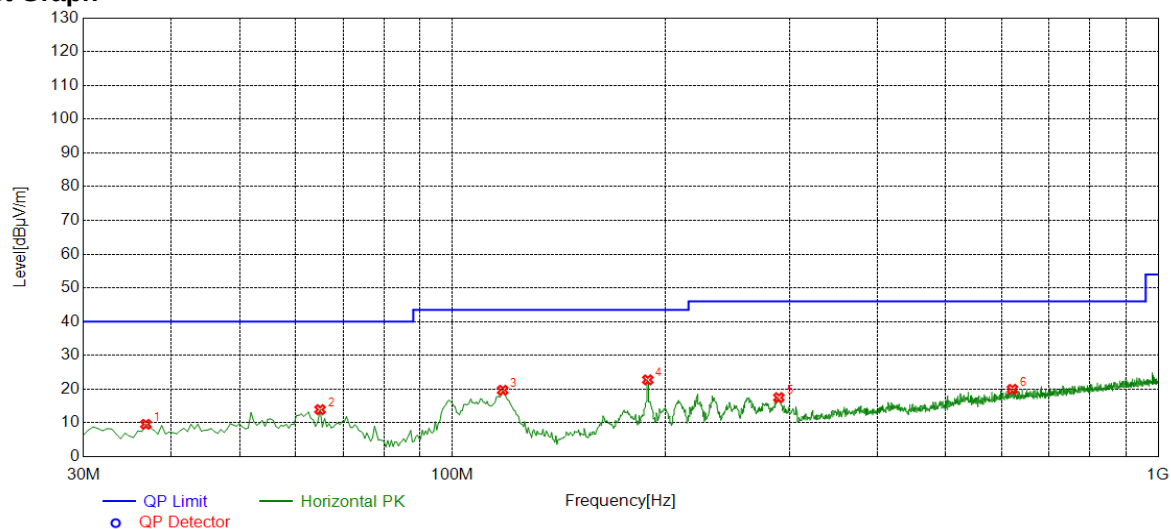


1.1 Radiated Spurious Emission

1.1.1 Transmitter Emission below 1GHz

1.1.1.1 BLE 1M

Test Graph



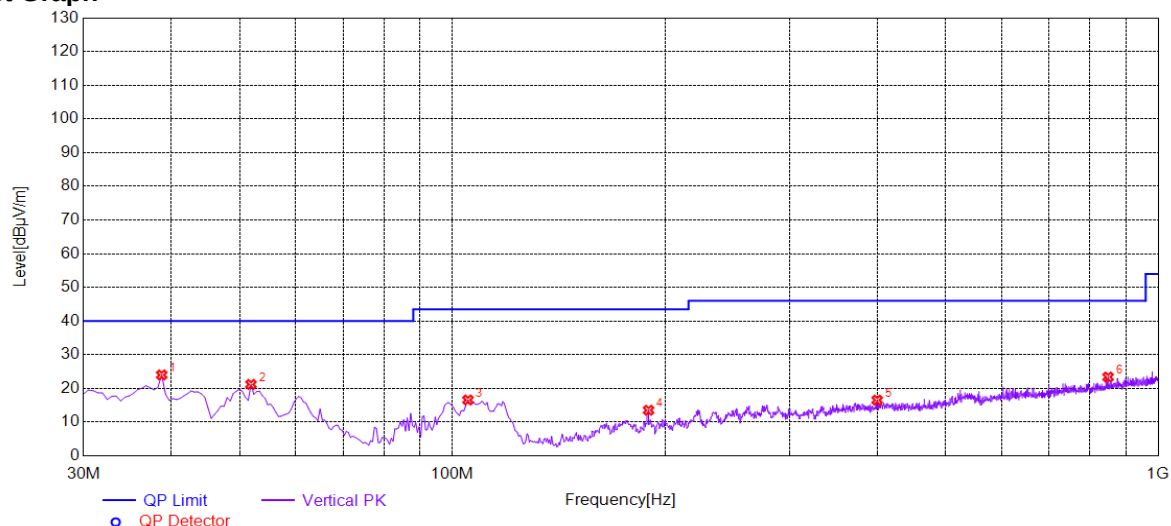
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7934	9.59	-32.19	40.00	30.41	194	248	Horizontal
2	64.9375	13.95	-32.91	40.00	26.05	206	1	Horizontal
3	117.828	19.69	-32.92	43.50	23.81	219	107	Horizontal
4	189.159	22.77	-31.97	43.50	20.73	205	273	Horizontal
5	290.090	17.51	-28.14	46.00	28.49	180	101	Horizontal
6	621.510	19.97	-19.78	46.00	26.03	115	14	Horizontal

Final Data List



Test Graph



Suspected List

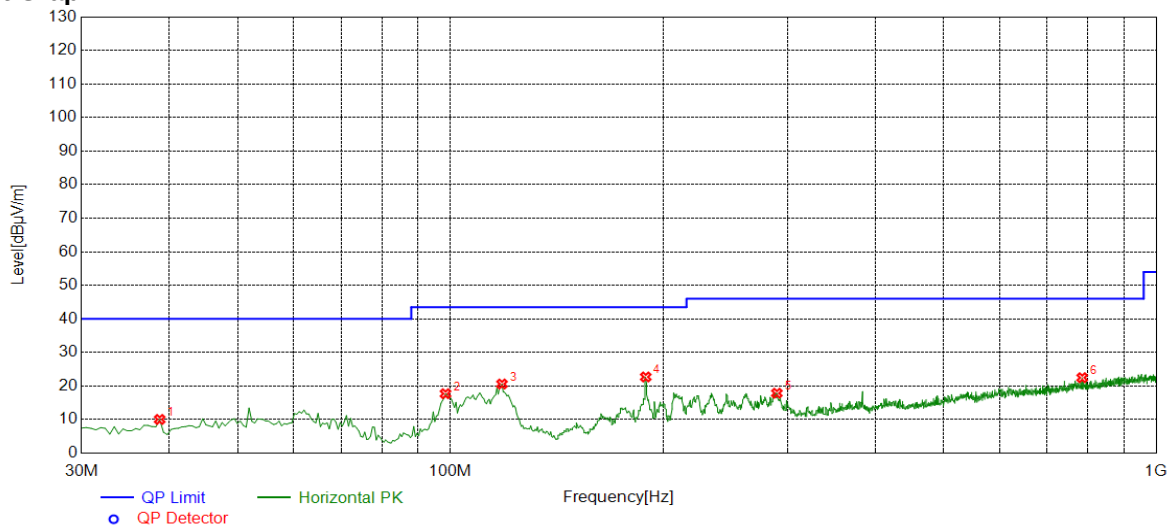
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.7344	24.03	-31.57	40.00	15.97	266	15	Vertical
2	51.8359	21.21	-30.46	40.00	18.79	247	309	Vertical
3	105.212	16.59	-31.69	43.50	26.91	236	75	Vertical
4	189.644	13.55	-31.92	43.50	29.95	248	113	Vertical
5	399.754	16.55	-24.96	46.00	29.45	162	81	Vertical
6	849.089	23.40	-16.06	46.00	22.60	273	41	Vertical

Final Data List



1.1.1.1 BLE 2M

Test Graph



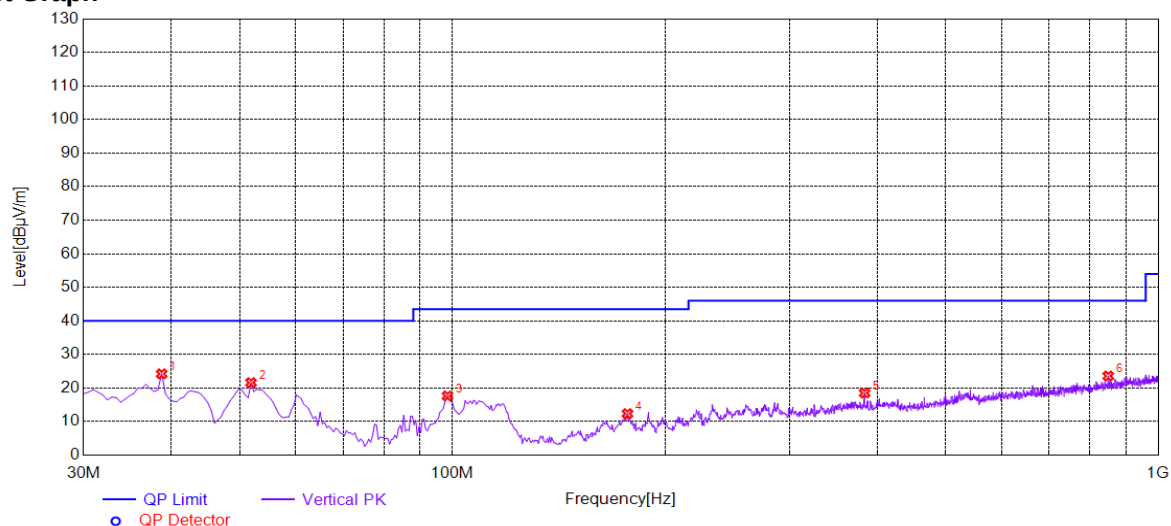
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.7344	10.06	-31.57	40.00	29.94	233	198	Horizontal
2	98.4192	17.72	-31.96	43.50	25.78	127	238	Horizontal
3	118.314	20.61	-33.00	43.50	22.89	138	117	Horizontal
4	189.159	22.71	-31.97	43.50	20.79	181	64	Horizontal
5	290.090	17.87	-28.14	46.00	28.13	248	101	Horizontal
6	785.522	22.49	-17.11	46.00	23.51	175	163	Horizontal

Final Data List



Test Graph



Suspected List

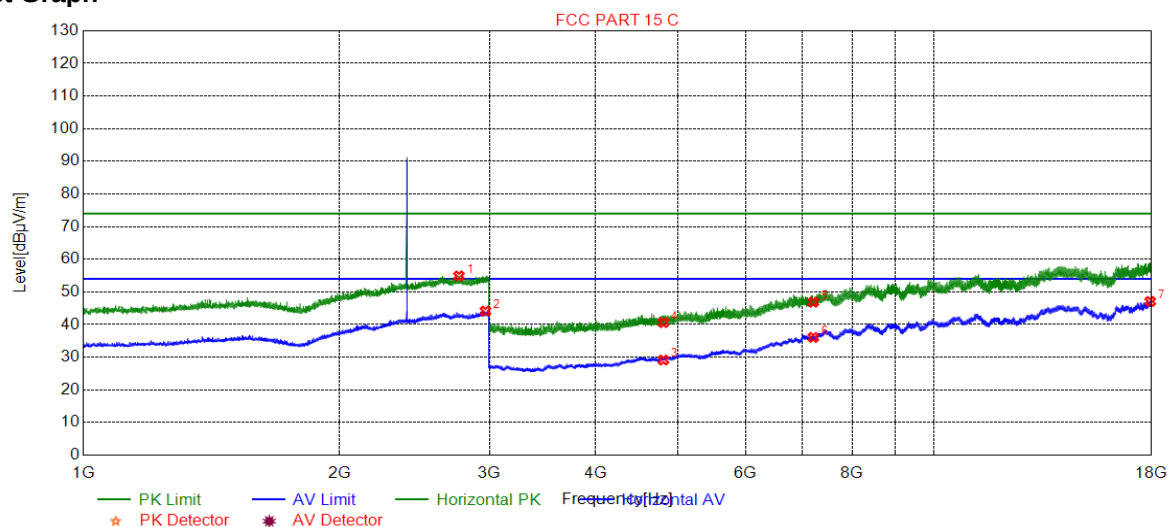
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.7344	24.23	-31.57	40.00	15.77	193	284	Vertical
2	51.8359	21.61	-30.46	40.00	18.39	235	344	Vertical
3	98.4192	17.65	-31.96	43.50	25.85	162	84	Vertical
4	177.028	12.38	-33.12	43.50	31.12	162	172	Vertical
5	383.741	18.53	-25.41	46.00	27.47	187	131	Vertical
6	849.574	23.59	-16.05	46.00	22.41	242	34	Vertical

Final Data List

1.1.2 Transmitter Emission above 1GHz

1.1.2.1 BLE 1M_Channel 0

Test Graph



Suspected List

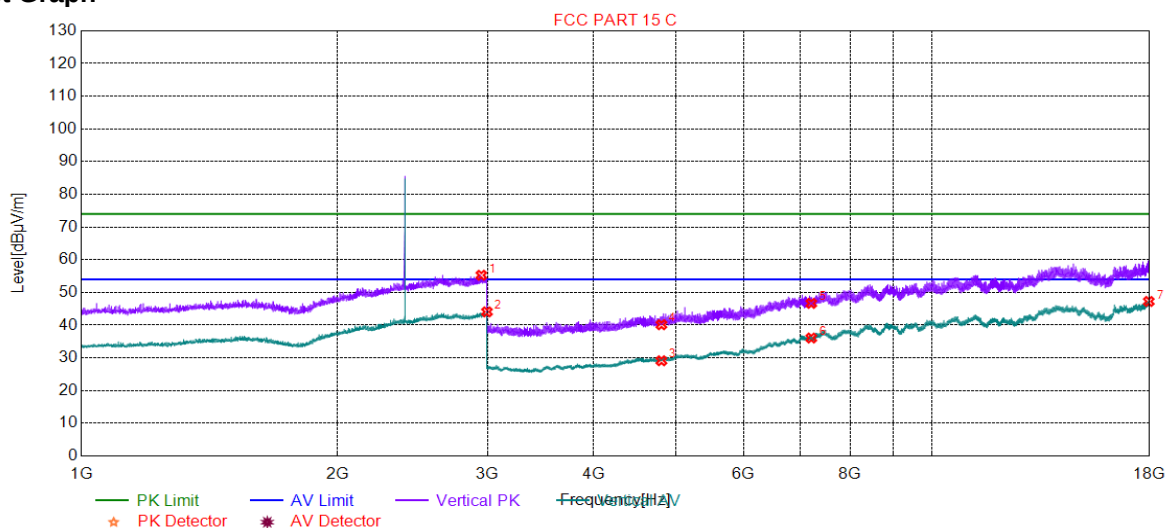
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2762.44	54.91	9.08	74.00	19.09	182	149	Horizontal
2	2967.99	44.15	9.60	54.00	9.85	209	328	Horizontal
3	4804.00	29.15	-18.30	54.00	24.85	155	0	Horizontal
4	4804.00	40.63	-18.30	74.00	33.37	120	0	Horizontal
5	7206.00	46.87	-10.09	74.00	27.13	133	219	Horizontal
6	7206.00	36.08	-10.09	54.00	17.92	208	169	Horizontal
7	17930.6	47.10	0.70	54.00	6.90	220	270	Horizontal

Final Data List



1.1.2.2 BLE 1M_Channel 0

Test Graph



Suspected List

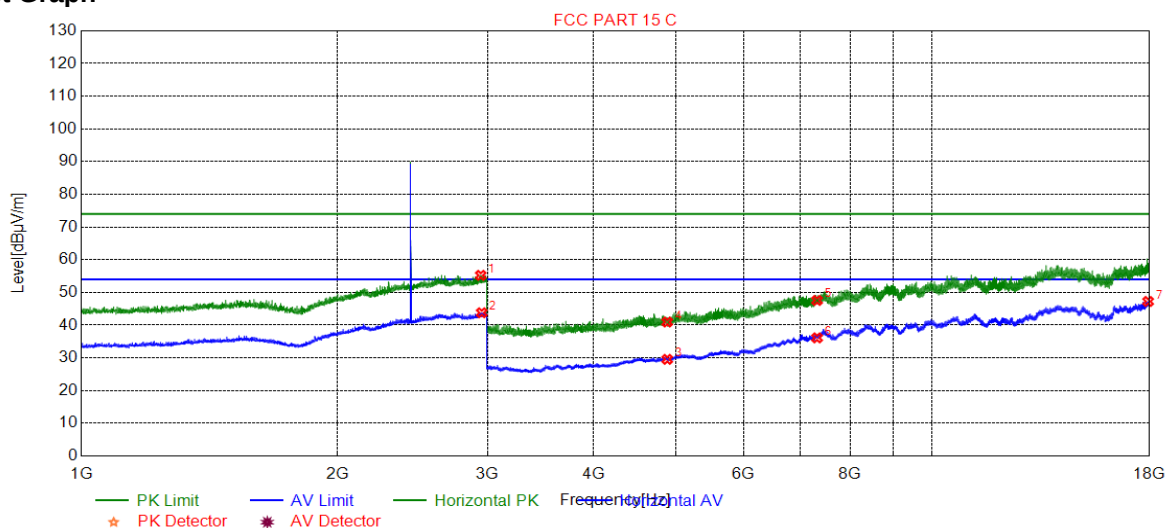
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.98	55.28	9.68	74.00	18.72	153	142	Vertical
2	2996.49	44.08	9.47	54.00	9.92	219	18	Vertical
3	4804.00	29.13	-18.30	54.00	24.87	249	123	Vertical
4	4804.00	40.14	-18.30	74.00	33.86	257	342	Vertical
5	7206.00	46.67	-10.09	74.00	27.33	278	68	Vertical
6	7206.00	36.08	-10.09	54.00	17.92	271	118	Vertical
7	17958.7	47.26	0.71	54.00	6.74	245	270	Vertical

Final Data List



1.1.2.3 BLE 1M_Channel 19

Test Graph



Suspected List

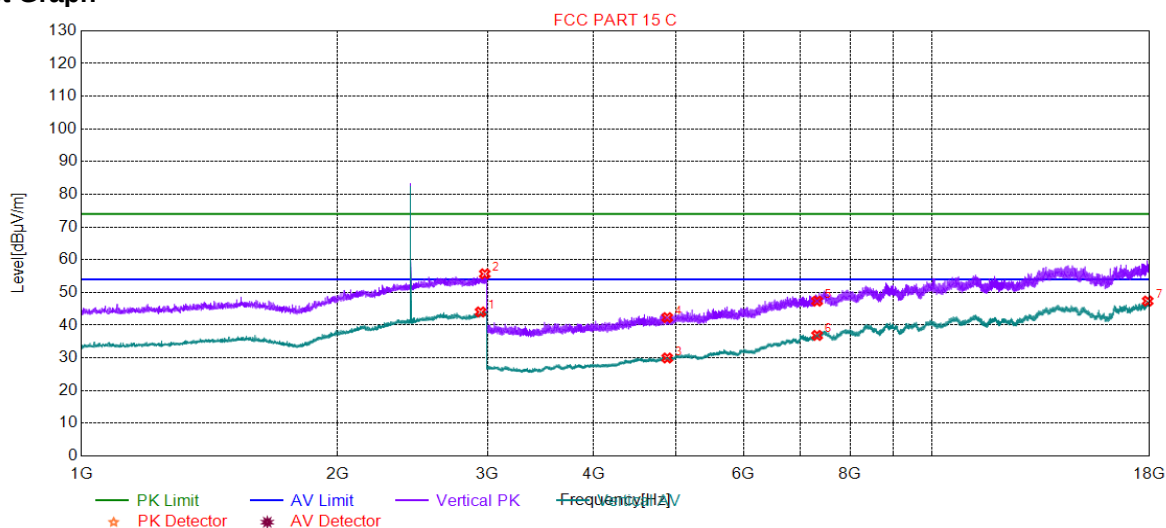
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.48	55.25	9.64	74.00	18.75	218	68	Horizontal
2	2953.98	43.80	9.66	54.00	10.20	244	164	Horizontal
3	4880.00	29.56	-17.97	54.00	24.44	150	259	Horizontal
4	4880.00	40.97	-17.97	74.00	33.03	242	287	Horizontal
5	7320.00	47.57	-9.72	74.00	26.43	187	219	Horizontal
6	7320.00	36.13	-9.72	54.00	17.87	163	269	Horizontal
7	17926.8	47.26	0.70	54.00	6.74	117	18	Horizontal

Final Data List



1.1.2.4 BLE 1M_Channel 19

Test Graph



Suspected List

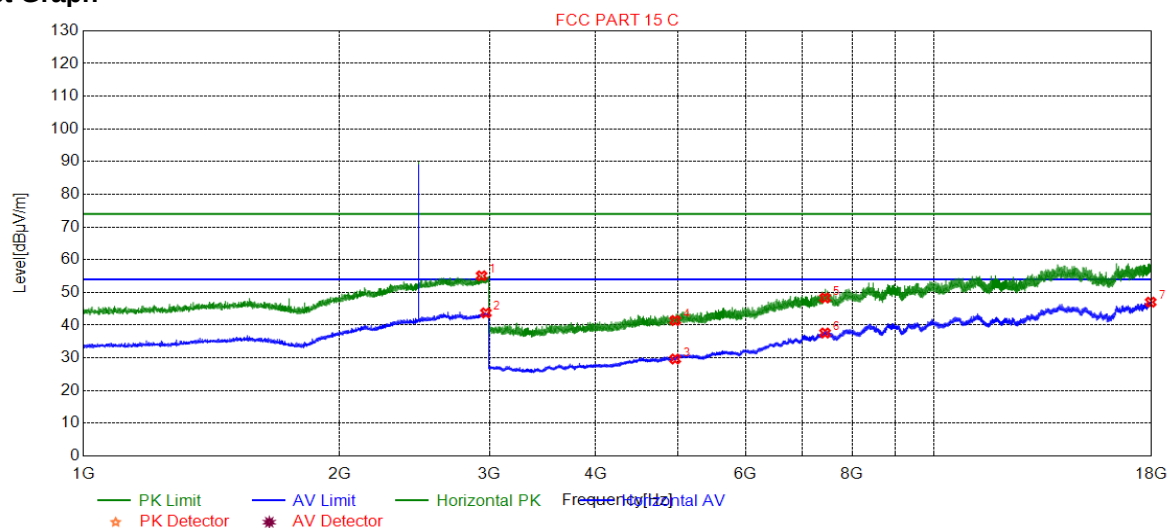
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2944.98	44.06	9.63	54.00	9.94	257	114	Vertical
2	2978.99	55.70	9.55	74.00	18.30	271	182	Vertical
3	4880.00	29.97	-17.97	54.00	24.03	291	152	Vertical
4	4880.00	42.33	-17.97	74.00	31.67	294	152	Vertical
5	7320.00	47.36	-9.72	74.00	26.64	206	271	Vertical
6	7320.00	36.88	-9.72	54.00	17.12	282	119	Vertical
7	17907.5	47.38	0.69	54.00	6.62	218	169	Vertical

Final Data List



1.1.2.5 BLE 1M_Channel 39

Test Graph



Suspected List

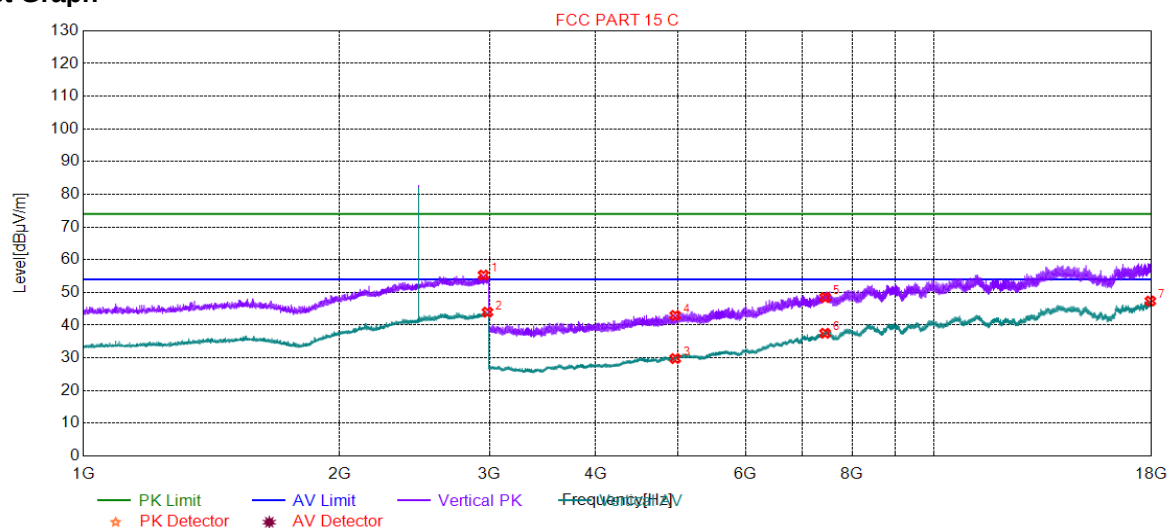
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.48	55.10	9.54	74.00	18.90	169	114	Horizontal
2	2971.99	43.76	9.58	54.00	10.24	122	17	Horizontal
3	4960.00	29.66	-17.47	54.00	24.34	231	151	Horizontal
4	4960.00	41.43	-17.47	74.00	32.57	131	124	Horizontal
5	7440.00	48.33	-9.35	74.00	25.67	247	360	Horizontal
6	7440.00	37.62	-9.35	54.00	16.38	100	69	Horizontal
7	17954.8	47.05	0.71	54.00	6.95	156	220	Horizontal

Final Data List



1.1.2.6 BLE 1M_Channel 39

Test Graph



Suspected List

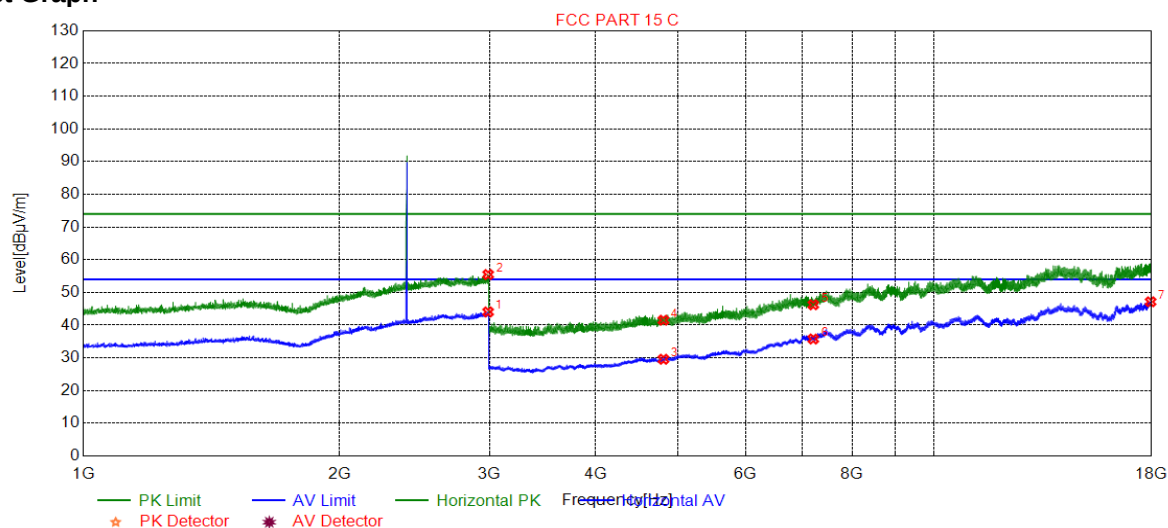
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2951.48	55.32	9.67	74.00	18.68	299	293	Vertical
2	2984.49	43.98	9.52	54.00	10.02	259	182	Vertical
3	4960.00	29.80	-17.47	54.00	24.20	234	315	Vertical
4	4960.00	42.98	-17.47	74.00	31.02	225	13	Vertical
5	7440.00	48.48	-9.35	74.00	25.52	180	170	Vertical
6	7440.00	37.53	-9.35	54.00	16.47	174	321	Vertical
7	17939.4	47.38	0.70	54.00	6.62	299	220	Vertical

Final Data List



1.1.2.1 BLE 2M_Channel 0

Test Graph



Suspected List

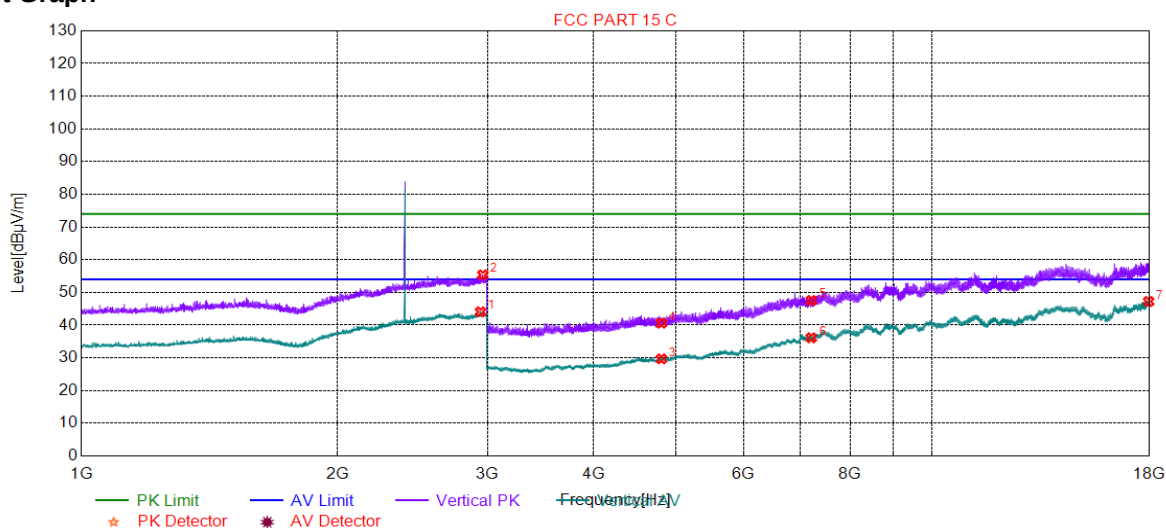
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2989.49	44.06	9.50	54.00	9.94	101	109	Horizontal
2	2989.99	55.50	9.50	74.00	18.50	177	342	Horizontal
3	4804.00	29.59	-18.30	54.00	24.41	167	206	Horizontal
4	4804.00	41.53	-18.30	74.00	32.47	217	342	Horizontal
5	7206.00	46.24	-10.09	74.00	27.76	205	18	Horizontal
6	7206.00	35.78	-10.09	54.00	18.22	167	18	Horizontal
7	17951.5	47.16	0.71	54.00	6.84	199	319	Horizontal

Final Data List



1.1.2.2 BLE 2M_Channel 0

Test Graph



Suspected List

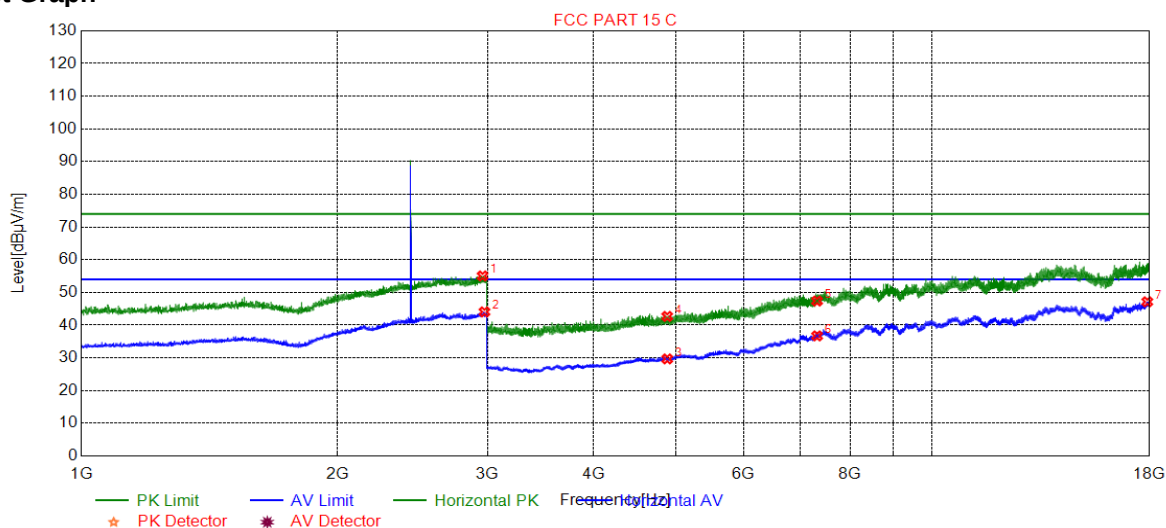
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2944.98	44.09	9.63	54.00	9.91	281	211	Vertical
2	2962.99	55.40	9.62	74.00	18.60	253	87	Vertical
3	4804.00	29.71	-18.30	54.00	24.29	258	258	Vertical
4	4804.00	40.63	-18.30	74.00	33.37	236	314	Vertical
5	7206.00	47.56	-10.09	74.00	26.44	238	68	Vertical
6	7206.00	36.15	-10.09	54.00	17.85	260	18	Vertical
7	17951.5	47.26	0.71	54.00	6.74	166	269	Vertical

Final Data List



1.1.2.3 BLE 2M_Channel 19

Test Graph



Suspected List

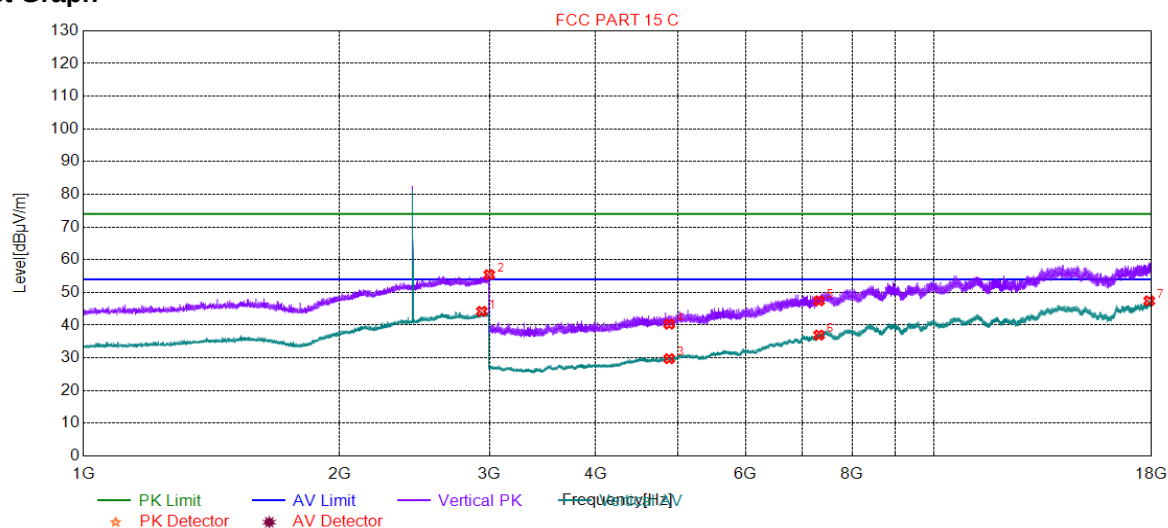
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2960.99	55.05	9.63	74.00	18.95	186	314	Horizontal
2	2976.49	44.07	9.56	54.00	9.93	230	109	Horizontal
3	4880.00	29.69	-17.97	54.00	24.31	225	177	Horizontal
4	4880.00	42.69	-17.97	74.00	31.31	232	177	Horizontal
5	7320.00	47.40	-9.72	74.00	26.60	167	170	Horizontal
6	7320.00	36.73	-9.72	54.00	17.27	157	18	Horizontal
7	17886.1	47.16	0.51	54.00	6.84	235	18	Horizontal

Final Data List



1.1.2.4 BLE 2M_Channel 19

Test Graph



Suspected List

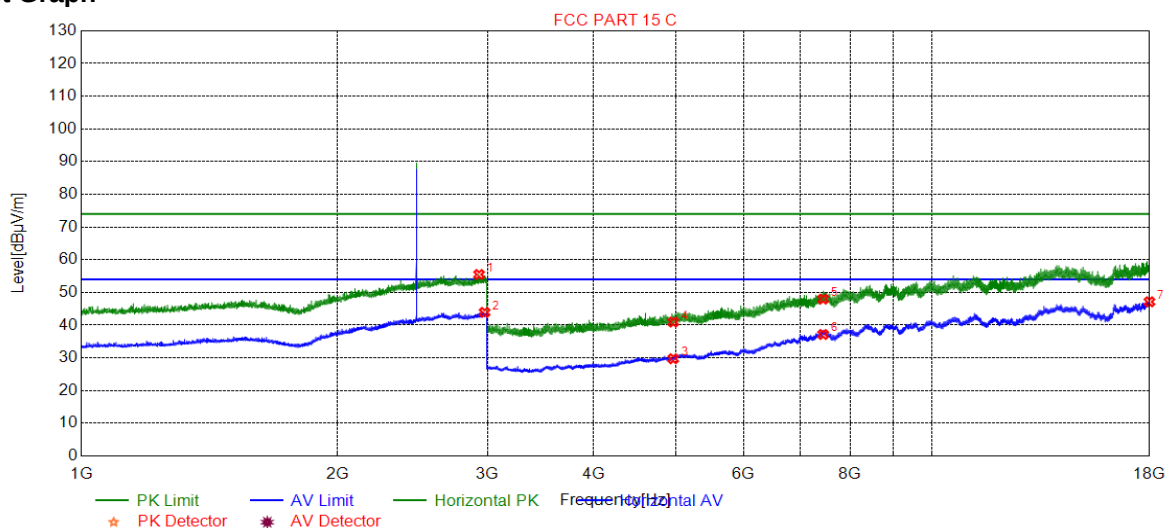
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2938.98	44.25	9.56	54.00	9.75	296	264	Vertical
2	2998.99	55.45	9.45	74.00	18.55	246	59	Vertical
3	4880.00	29.76	-17.97	54.00	24.24	173	232	Vertical
4	4880.00	40.33	-17.97	74.00	33.67	174	260	Vertical
5	7320.00	47.46	-9.72	74.00	26.54	153	319	Vertical
6	7320.00	36.99	-9.72	54.00	17.01	189	68	Vertical
7	17887.2	47.46	0.52	54.00	6.54	182	219	Vertical

Final Data List



1.1.2.5 BLE 2M_Channel 39

Test Graph



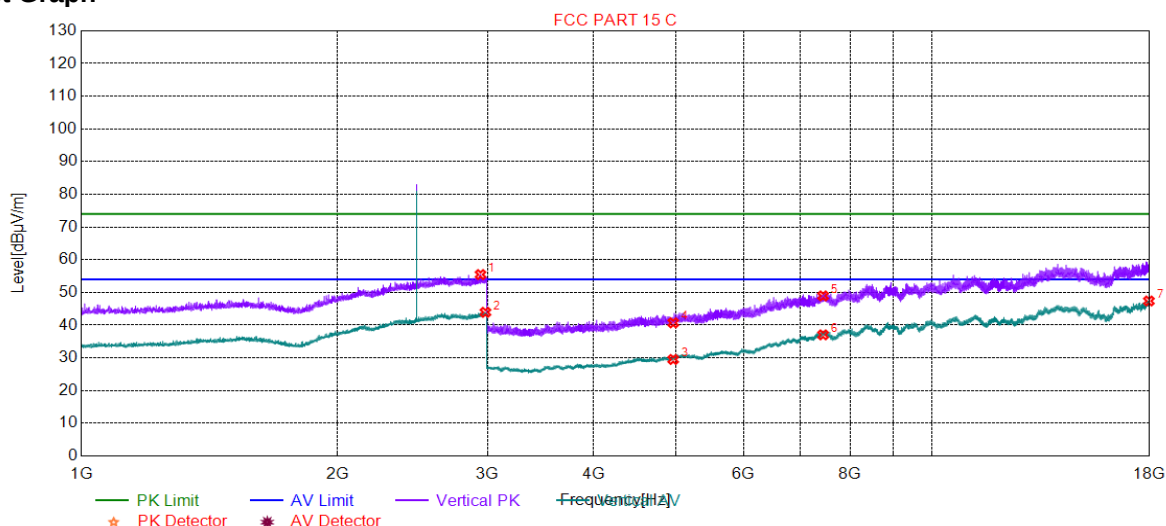
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2932.98	55.51	9.50	74.00	18.49	137	65	Horizontal
2	2977.49	43.92	9.55	54.00	10.08	159	134	Horizontal
3	4960.00	29.74	-17.47	54.00	24.26	178	233	Horizontal
4	4960.00	40.97	-17.47	74.00	33.03	221	96	Horizontal
5	7440.00	47.98	-9.35	74.00	26.02	240	76	Horizontal
6	7440.00	37.16	-9.35	54.00	16.84	234	18	Horizontal
7	17991.7	47.15	0.72	54.00	6.85	216	328	Horizontal

Final Data List

1.1.2.6 BLE 2M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2944.48	55.49	9.62	74.00	18.51	202	360	Vertical
2	2984.49	43.94	9.52	54.00	10.06	176	18	Vertical
3	4960.00	29.52	-17.47	54.00	24.48	284	150	Vertical
4	4960.00	40.72	-17.47	74.00	33.28	245	287	Vertical
5	7440.00	48.96	-9.35	74.00	25.04	235	360	Vertical
6	7440.00	37.05	-9.35	54.00	16.95	165	318	Vertical
7	17965.8	47.40	0.71	54.00	6.60	249	68	Vertical

Final Data List

Remark:

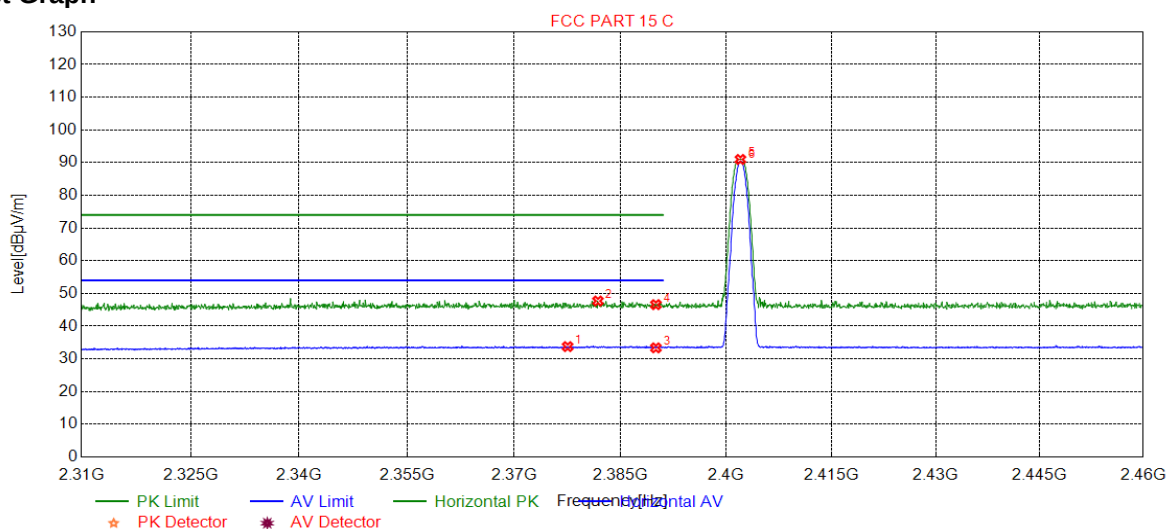
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz 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.

1.2 Restricted bands around fundamental frequency

1.2.1 Test plots

1.2.1.1 BLE 1M_Channel 0

Test Graph



Suspected List

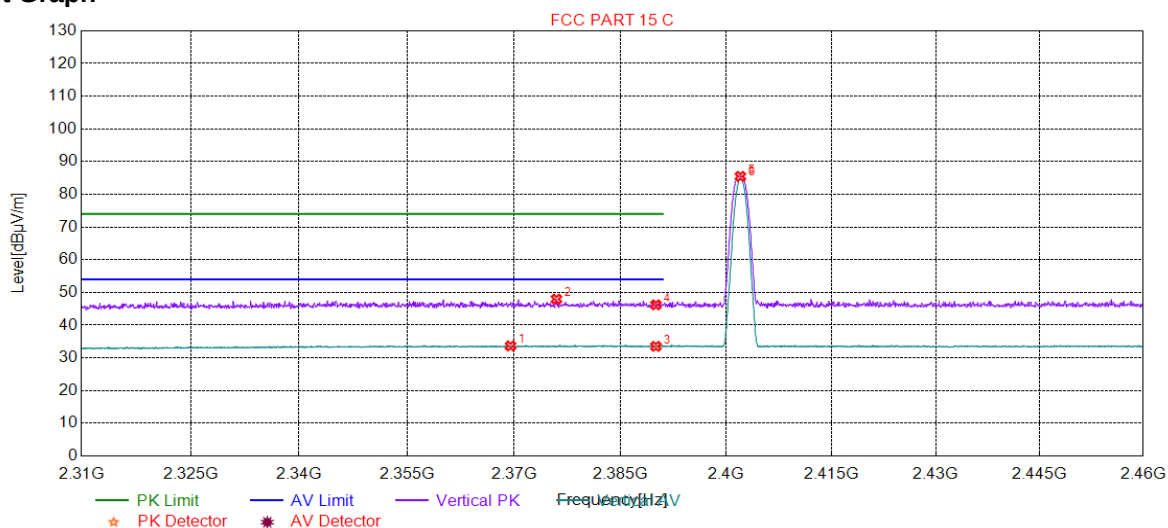
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.53	33.76	7.78	54.00	20.24	170	202	Horizontal
2	2381.81	47.70	7.78	74.00	26.30	189	121	Horizontal
3	2390.00	33.38	7.77	54.00	20.62	199	12	Horizontal
4	2390.00	46.59	7.77	74.00	27.41	107	104	Horizontal
5	2402.00	90.98	7.77	0.00	-90.98	125	202	Horizontal
6	2402.00	90.41	7.77	0.00	-90.41	200	202	Horizontal

Final Data List



1.2.1.2 BLE 1M_Channel 0

Test Graph



Suspected List

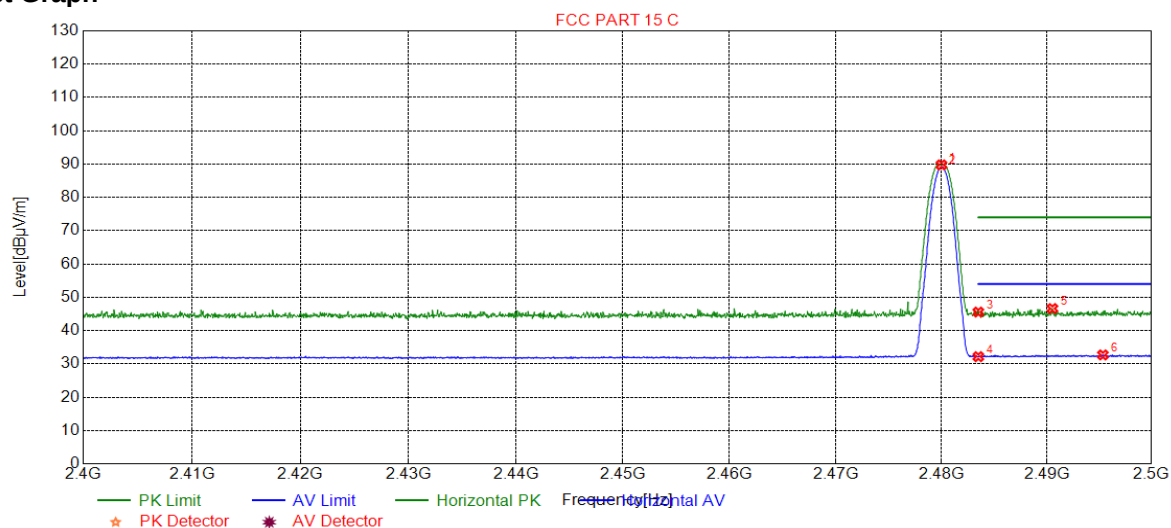
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.50	33.66	7.79	54.00	20.34	293	117	Vertical
2	2375.95	47.98	7.78	74.00	26.02	194	321	Vertical
3	2390.00	33.53	7.77	54.00	20.47	270	95	Vertical
4	2390.00	46.23	7.77	74.00	27.77	253	139	Vertical
5	2402.00	85.50	7.77	0.00	-85.50	221	222	Vertical
6	2402.00	84.94	7.77	0.00	-84.94	288	222	Vertical

Final Data List



1.2.1.3 BLE 1M_Channel 39

Test Graph



Suspected List

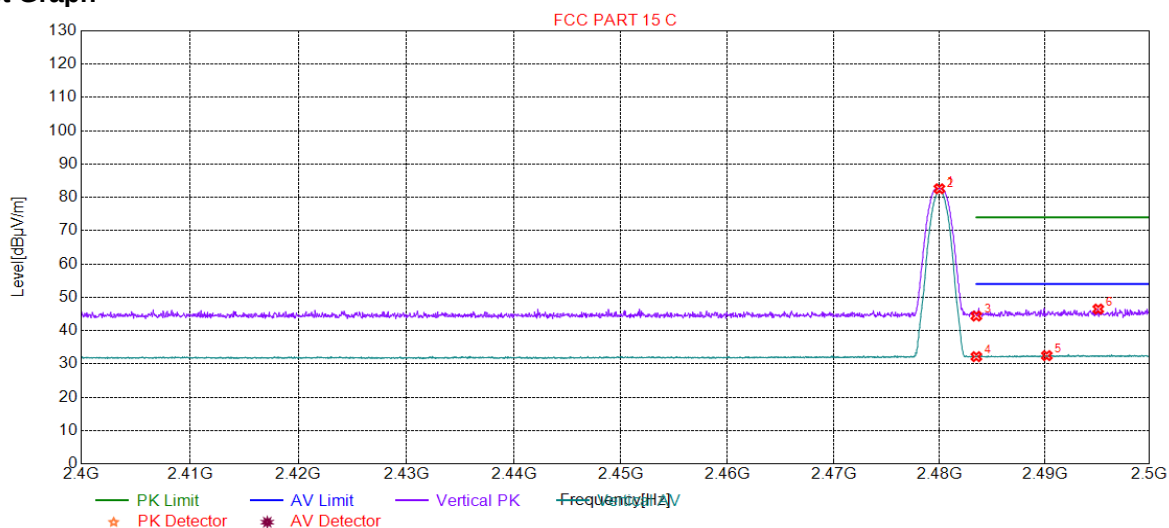
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	89.77	8.01	0.00	-89.77	248	182	Horizontal
2	2480.00	89.22	8.01	0.00	-89.22	151	188	Horizontal
3	2483.50	45.59	8.01	74.00	28.41	232	122	Horizontal
4	2483.50	32.21	8.01	54.00	21.79	240	242	Horizontal
5	2490.54	46.65	8.02	74.00	27.35	236	0	Horizontal
6	2495.34	32.72	8.02	54.00	21.28	109	264	Horizontal

Final Data List



1.2.1.4 BLE 1M_Channel 39

Test Graph



Suspected List

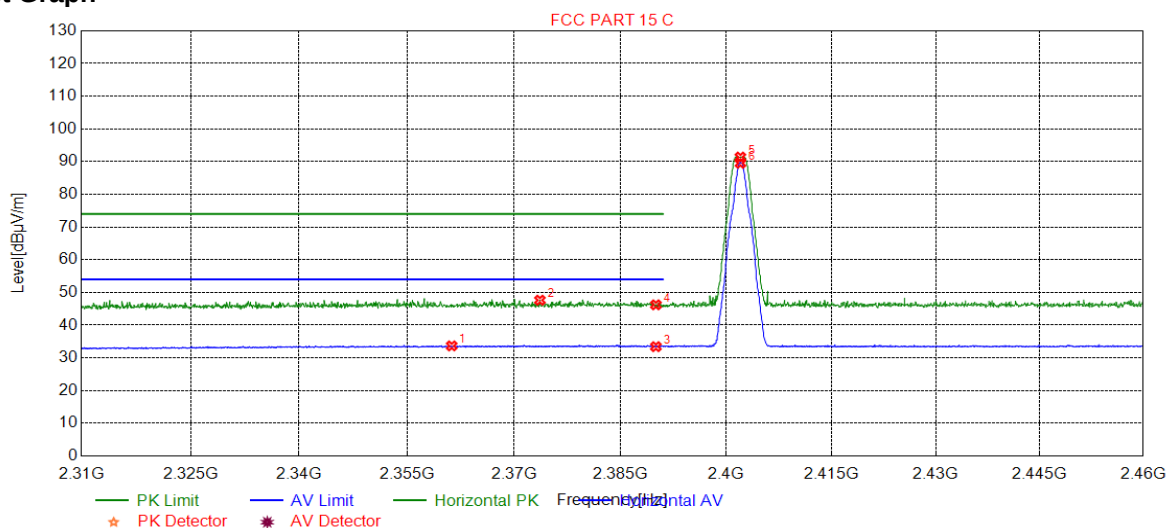
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	82.60	8.01	0.00	-82.60	234	281	Vertical
2	2480.00	82.05	8.01	0.00	-82.05	167	276	Vertical
3	2483.50	44.40	8.01	74.00	29.60	160	29	Vertical
4	2483.50	32.20	8.01	54.00	21.80	214	85	Vertical
5	2490.19	32.51	8.02	54.00	21.49	155	270	Vertical
6	2495.09	46.49	8.02	74.00	27.51	246	40	Vertical

Final Data List



1.2.1.1 BLE 2M_Channel 0

Test Graph



Suspected List

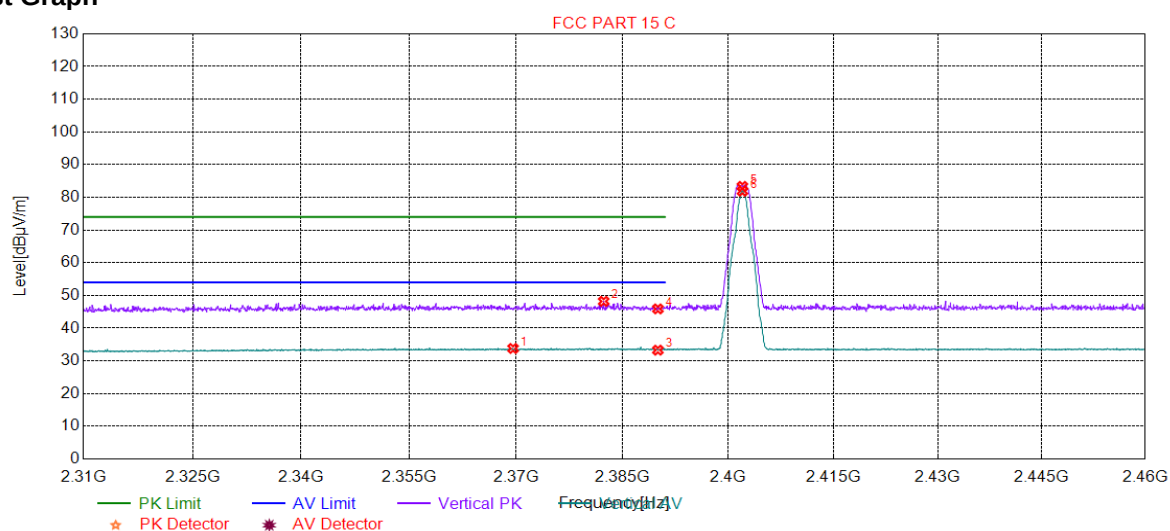
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.25	33.67	7.80	54.00	20.33	212	314	Horizontal
2	2373.63	47.65	7.79	74.00	26.35	206	247	Horizontal
3	2390.00	33.44	7.77	54.00	20.56	242	308	Horizontal
4	2390.00	46.23	7.77	74.00	27.77	227	220	Horizontal
5	2402.00	91.40	7.77	0.00	-91.40	245	186	Horizontal
6	2402.00	89.51	7.77	0.00	-89.51	205	181	Horizontal

Final Data List



1.2.1.2 BLE 2M_Channel 0

Test Graph



Suspected List

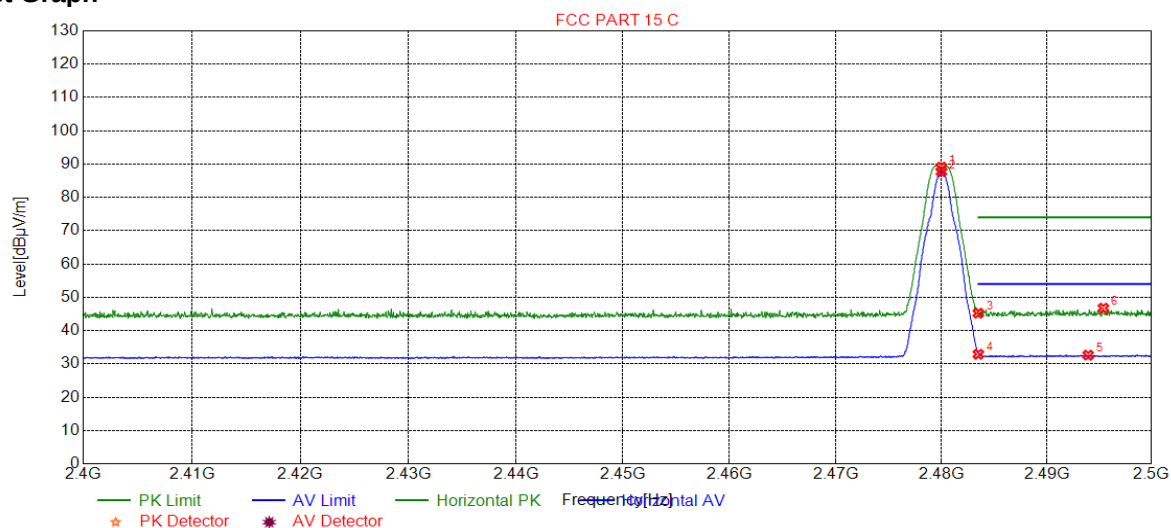
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.57	33.80	7.79	54.00	20.20	280	200	Vertical
2	2382.33	48.21	7.78	74.00	25.79	279	183	Vertical
3	2390.00	33.29	7.77	54.00	20.71	265	145	Vertical
4	2390.00	45.90	7.77	74.00	28.10	294	124	Vertical
5	2402.00	83.34	7.77	0.00	-83.34	181	283	Vertical
6	2402.00	81.90	7.77	0.00	-81.90	151	283	Vertical

Final Data List



1.2.1.3 BLE 2M_Channel 39

Test Graph



Suspected List

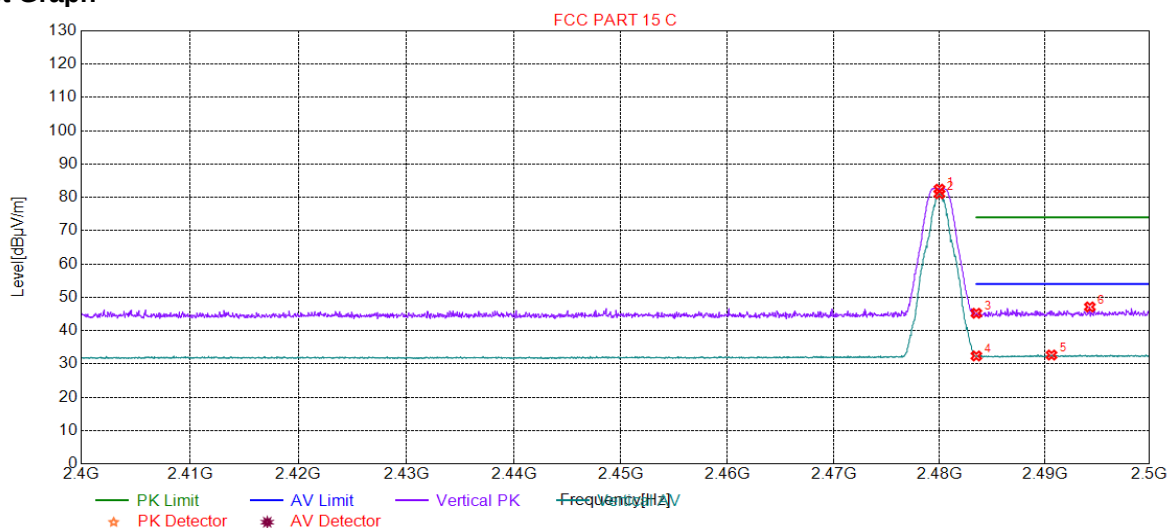
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	89.09	8.01	0.00	-89.09	157	183	Horizontal
2	2480.00	87.74	8.01	0.00	-87.74	201	183	Horizontal
3	2483.50	45.25	8.01	74.00	28.75	168	216	Horizontal
4	2483.50	32.93	8.01	54.00	21.07	201	133	Horizontal
5	2493.94	32.66	8.02	54.00	21.34	207	200	Horizontal
6	2495.39	46.77	8.02	74.00	27.23	241	122	Horizontal

Final Data List



1.2.1.4 BLE 2M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	82.48	8.01	0.00	-82.48	215	274	Vertical
2	2480.00	81.11	8.01	0.00	-81.11	299	274	Vertical
3	2483.50	45.23	8.01	74.00	28.77	286	296	Vertical
4	2483.50	32.42	8.01	54.00	21.58	162	94	Vertical
5	2490.64	32.69	8.02	54.00	21.31	280	132	Vertical
6	2494.29	47.13	8.02	74.00	26.87	250	356	Vertical

Final Data List

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.