



Appendix C

BLE

Radiated Spurious Emissions



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (China) EMC Laboratory

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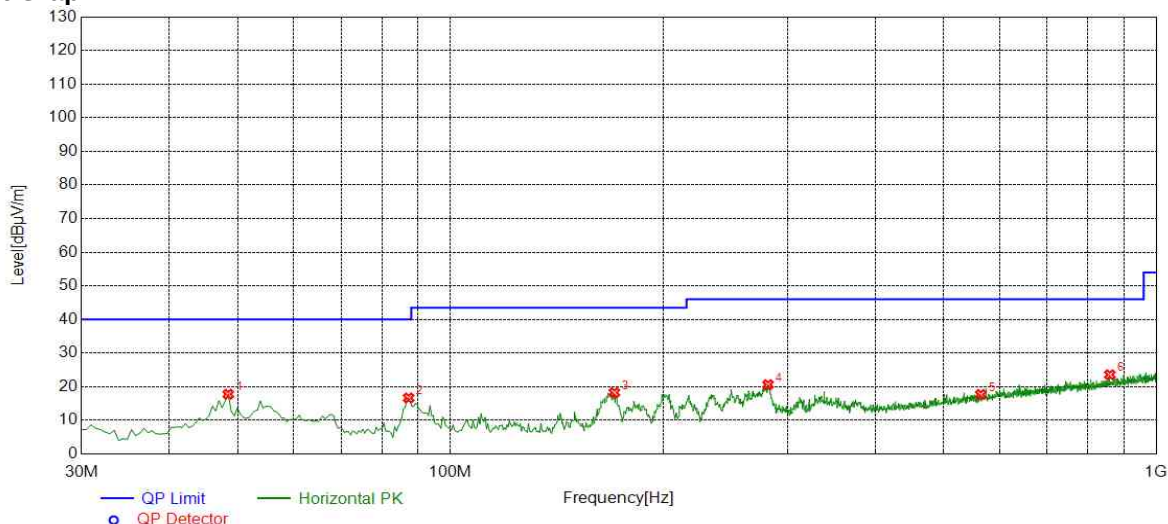
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1.1 Radiated Spurious Emission

1.1.1 Radiated Emission below 1GHz

1.1.1.1 Charge + Transmitting

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4392	17.79	-30.19	40.00	22.21	150	275	Horizontal
2	87.2586	16.68	-34.09	40.00	23.32	150	47	Horizontal
3	170.7204	18.25	-33.56	43.50	25.25	150	297	Horizontal
4	281.8409	20.63	-28.34	46.00	25.37	150	300	Horizontal
5	564.2521	17.71	-21.06	46.00	28.29	150	107	Horizontal
6	859.7649	23.58	-15.88	46.00	22.42	150	329	Horizontal

Final Data List



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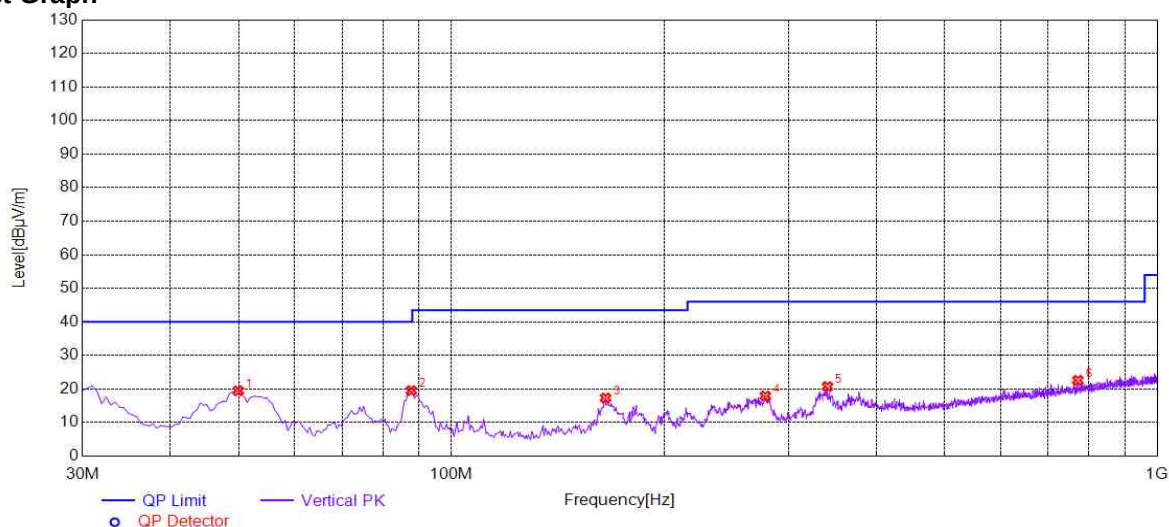
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Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.8949	19.46	-30.18	40.00	20.54	150	344	Vertical
2	87.7439	19.55	-33.97	40.00	20.45	150	74	Vertical
3	165.3827	17.33	-33.93	43.50	26.17	150	7	Vertical
4	278.4442	17.96	-28.44	46.00	28.04	150	297	Vertical
5	341.0405	20.74	-26.68	46.00	25.26	150	313	Vertical
6	771.9360	22.63	-17.23	46.00	23.37	150	212	Vertical

Final Data List



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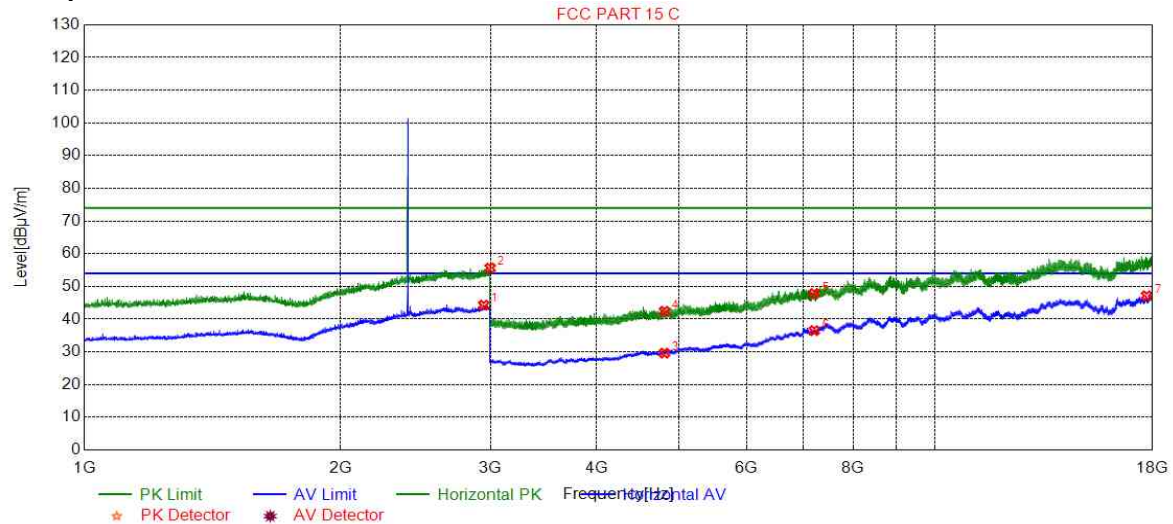
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1.1.2 Transmitter Emission above 1GHz

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	2945.9865	44.29	9.64	54.00	9.71	150	184	Horizontal
2	2997.9995	55.65	9.46	74.00	18.35	150	280	Horizontal
3	4804.0000	29.63	-18.30	54.00	24.37	150	238	Horizontal
4	4804.0000	42.42	-18.30	74.00	31.58	150	211	Horizontal
5	7206.0000	47.85	-10.09	74.00	26.15	150	141	Horizontal
6	7206.0000	36.51	-10.09	54.00	17.49	150	141	Horizontal
7	17710.1355	47.16	1.16	54.00	6.84	150	91	Horizontal

Final Data List

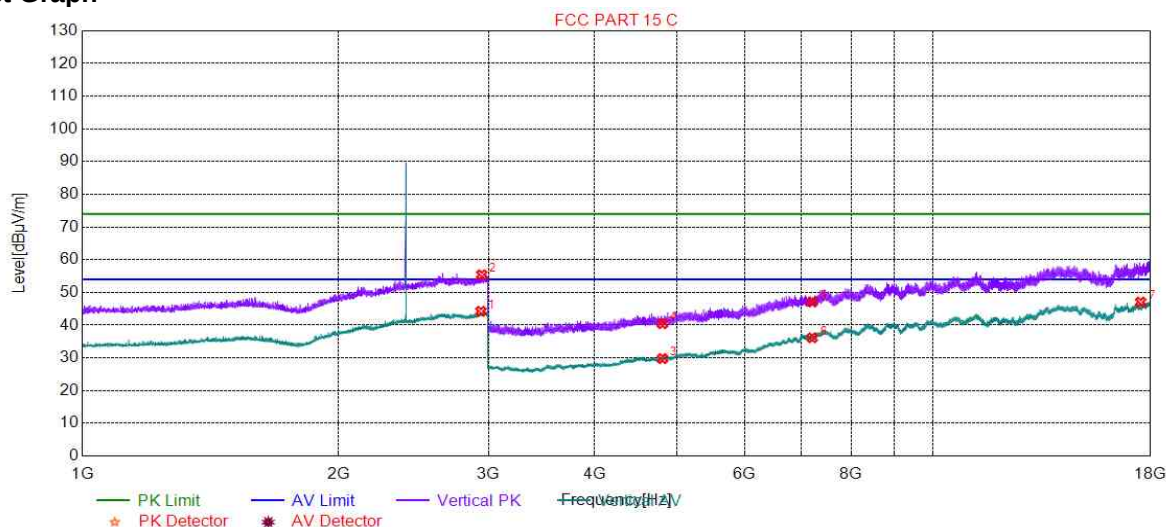


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1.1.2.2 BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2939.4849	44.27	9.57	54.00	9.73	150	38	Vertical
2	2946.4866	55.43	9.64	74.00	18.57	150	205	Vertical
3	4804.0000	29.79	-18.30	54.00	24.21	150	294	Vertical
4	4804.0000	40.46	-18.30	74.00	33.54	150	184	Vertical
5	7206.0000	47.08	-10.09	74.00	26.92	150	242	Vertical
6	7206.0000	36.17	-10.09	54.00	17.83	150	342	Vertical
7	17521.4761	47.07	1.00	54.00	6.93	150	42	Vertical

Final Data List



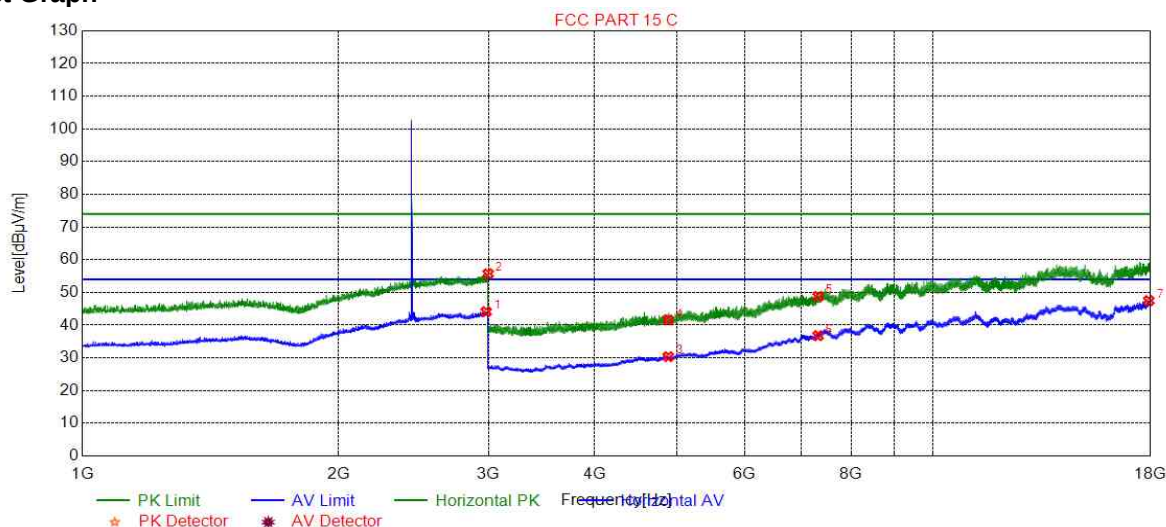
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1.1.2.3 BLE_1M_Channel 19

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2981.4954	44.14	9.54	54.00	9.86	150	183	Horizontal
2	2997.4994	55.72	9.46	74.00	18.28	150	18	Horizontal
3	4880.0000	30.39	-17.97	54.00	23.61	150	347	Horizontal
4	4880.0000	41.61	-17.97	74.00	32.39	150	292	Horizontal
5	7320.0000	48.80	-9.72	74.00	25.20	150	40	Horizontal
6	7320.0000	36.79	-9.72	54.00	17.21	150	140	Horizontal
7	17912.5456	47.51	0.69	54.00	6.49	150	140	Horizontal

Final Data List

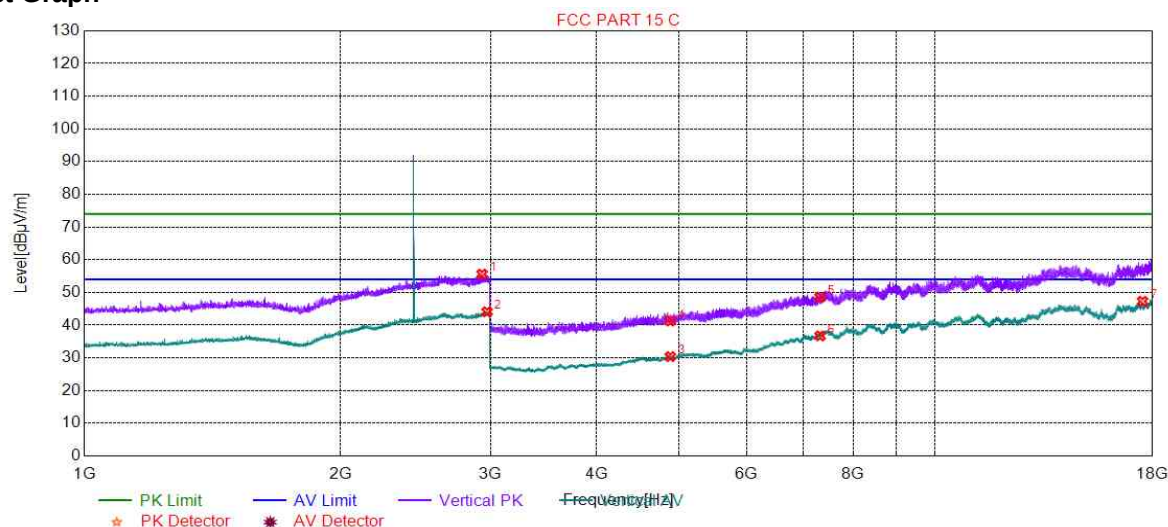


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1.1.2.4 BLE_1M_Channel 19

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2932.9832	55.62	9.50	74.00	18.38	150	163	Vertical
2	2972.9932	44.11	9.57	54.00	9.89	150	274	Vertical
3	4880.0000	30.42	-17.97	54.00	23.58	150	127	Vertical
4	4880.0000	41.28	-17.97	74.00	32.72	150	292	Vertical
5	7320.0000	48.58	-9.72	74.00	25.42	150	291	Vertical
6	7320.0000	36.73	-9.72	54.00	17.27	150	342	Vertical
7	17515.9758	47.31	0.98	54.00	6.69	150	0	Vertical

Final Data List

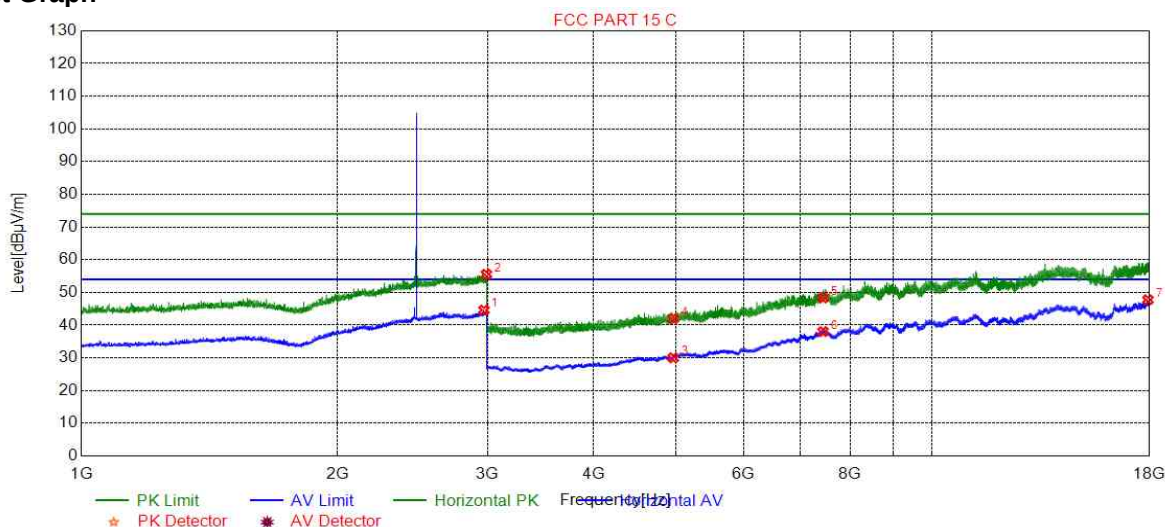


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1.1.2.5 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2971.9930	44.64	9.58	54.00	9.36	150	156	Horizontal
2	2992.4981	55.57	9.48	74.00	18.43	150	279	Horizontal
3	4960.0000	30.03	-17.47	54.00	23.97	150	100	Horizontal
4	4960.0000	42.04	-17.47	74.00	31.96	150	155	Horizontal
5	7440.0000	48.33	-9.35	74.00	25.67	150	291	Horizontal
6	7440.0000	38.04	-9.35	54.00	15.96	150	291	Horizontal
7	17919.6960	47.76	0.70	54.00	6.24	150	141	Horizontal

Final Data List



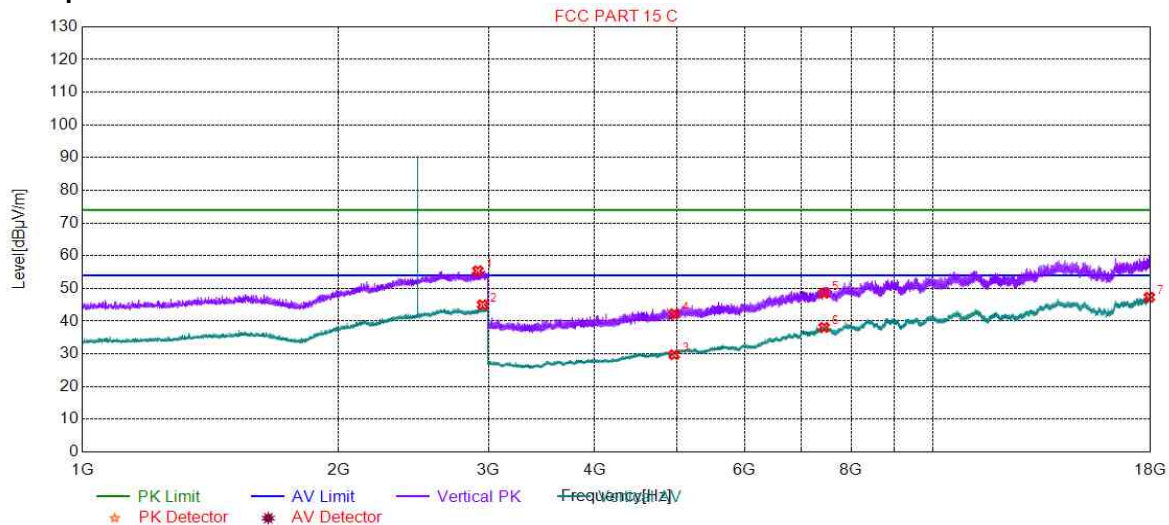
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1.1.2.6 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2915.4789	55.42	9.31	74.00	18.58	150	109	Vertical
2	2952.9882	45.04	9.67	54.00	8.96	150	68	Vertical
3	4960.0000	29.76	-17.47	54.00	24.24	150	319	Vertical
4	4960.0000	42.26	-17.47	74.00	31.74	150	265	Vertical
5	7440.0000	48.54	-9.35	74.00	25.46	150	342	Vertical
6	7440.0000	38.09	-9.35	54.00	15.91	150	342	Vertical
7	17935.0968	47.31	0.70	54.00	6.69	150	191	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.



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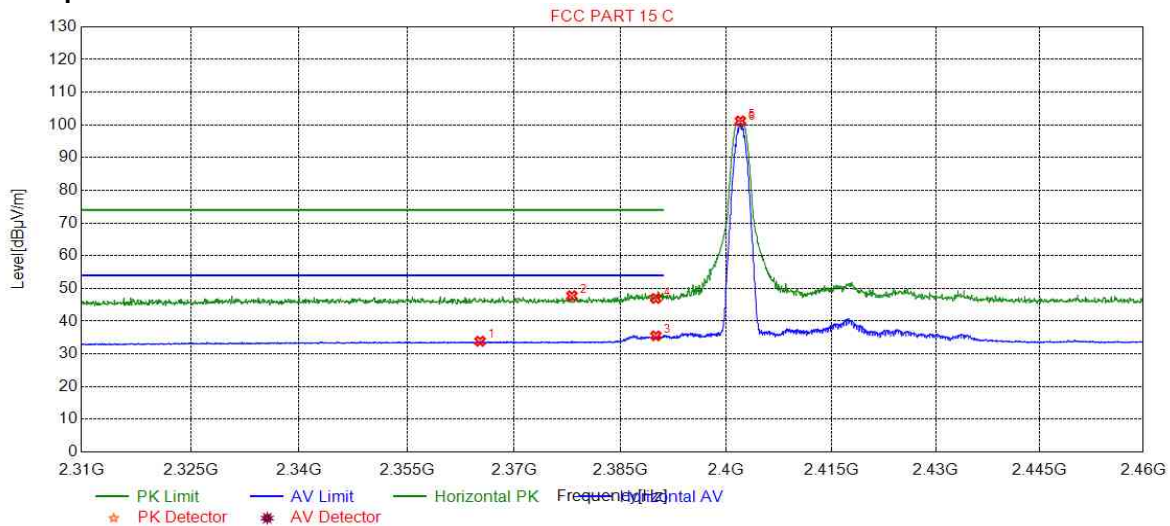
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1.2 Restricted bands around fundamental frequency

1.2.1 Test plots

1.2.1.1 BLE_1M_Channel 0

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.2276	33.88	7.79	54.00	20.12	150	212	Horizontal
2	2378.1341	47.79	7.78	74.00	26.21	150	201	Horizontal
3	2390.0000	35.53	7.77	54.00	18.47	150	228	Horizontal
4	2390.0000	46.96	7.77	74.00	27.04	150	206	Horizontal
5	2402.0000	101.24	7.77	0.00	-101.24	150	222	Horizontal
6	2402.0000	100.67	7.77	0.00	-100.67	150	222	Horizontal

Final Data List

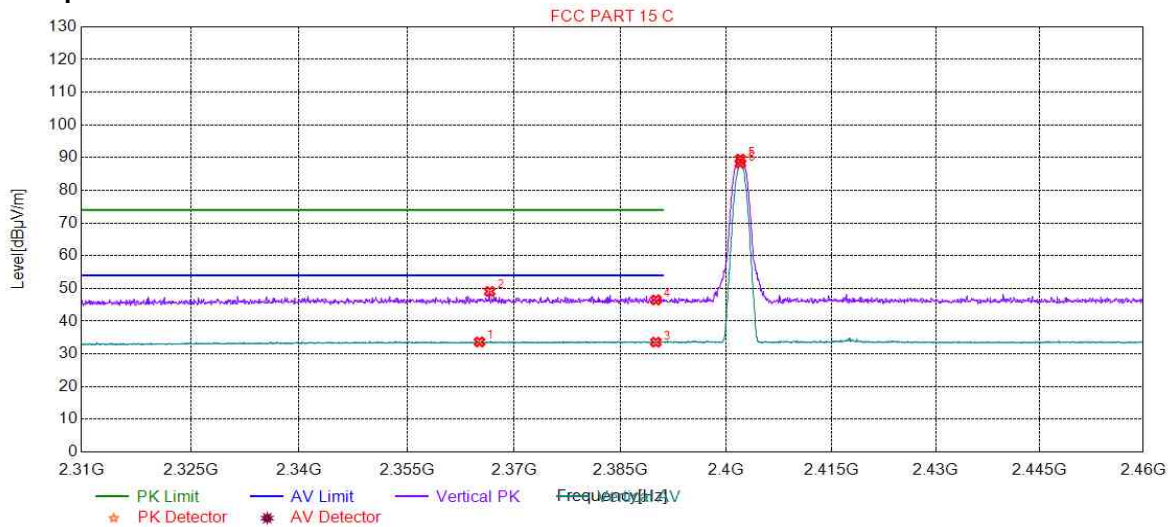


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1.2.1.2 BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.1526	33.65	7.79	54.00	20.35	150	66	Vertical
2	2366.5783	49.09	7.79	74.00	24.91	150	309	Vertical
3	2390.0000	33.58	7.77	54.00	20.42	150	187	Vertical
4	2390.0000	46.51	7.77	74.00	27.49	150	325	Vertical
5	2402.0000	89.55	7.77	0.00	-89.55	150	331	Vertical
6	2402.0000	88.28	7.77	0.00	-88.28	150	60	Vertical

Final Data List

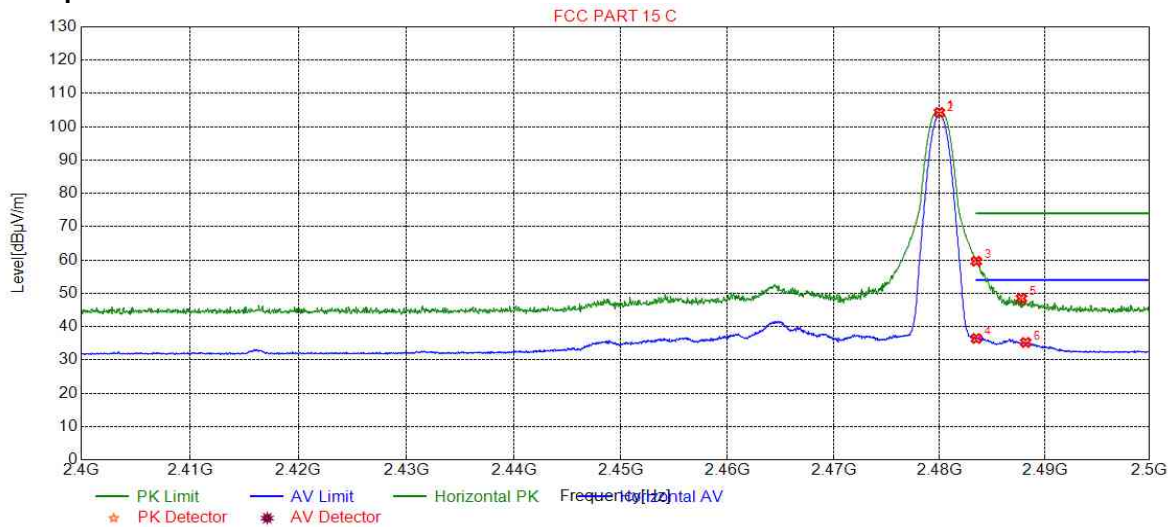


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1.2.1.3 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	104.27	8.01	0.00	-104.27	150	212	Horizontal
2	2480.0000	103.59	8.01	0.00	-103.59	150	212	Horizontal
3	2483.5000	59.66	8.01	74.00	14.34	150	207	Horizontal
4	2483.5000	36.47	8.01	54.00	17.53	150	212	Horizontal
5	2487.7939	48.47	8.02	74.00	25.53	150	157	Horizontal
6	2488.1941	35.25	8.02	54.00	18.75	150	224	Horizontal

Final Data List

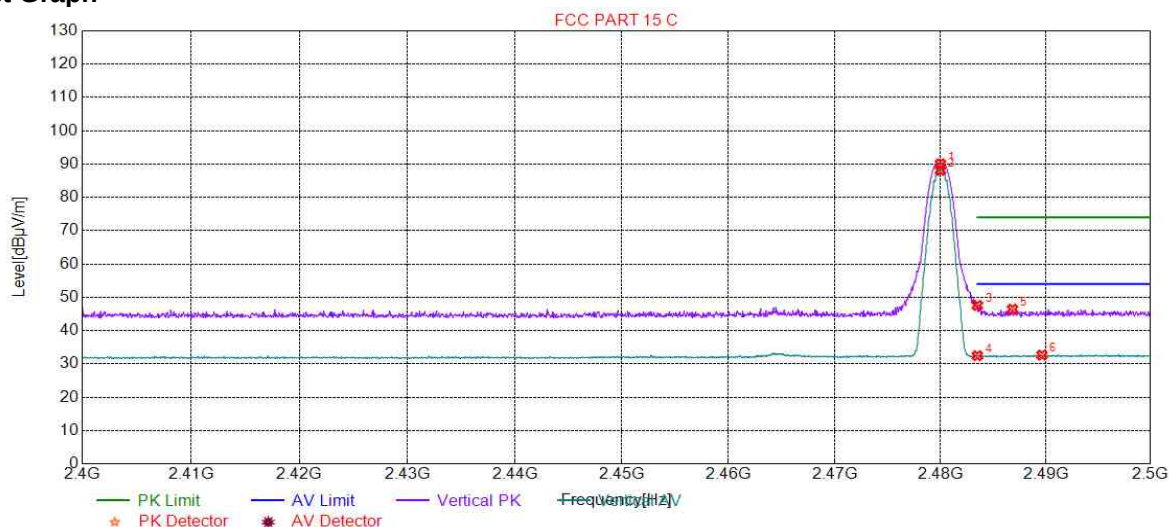


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1.2.1.4 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	90.10	8.01	0.00	-90.10	150	42	Vertical
2	2480.0000	88.10	8.01	0.00	-88.10	150	25	Vertical
3	2483.5000	47.57	8.01	74.00	26.43	150	52	Vertical
4	2483.5000	32.48	8.01	54.00	21.52	150	52	Vertical
5	2486.8434	46.44	8.01	74.00	27.56	150	47	Vertical
6	2489.6448	32.68	8.02	54.00	21.32	150	0	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.