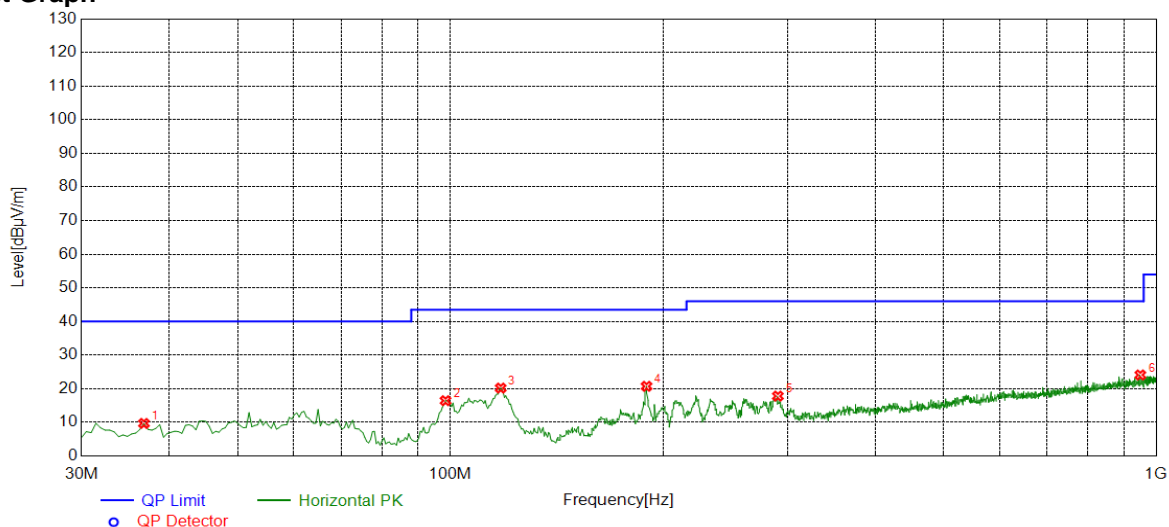




## 1.1 Radiated Spurious Emission

### 1.1.1 Radiated Emission below 1GHz

#### Test Graph



#### Suspected List

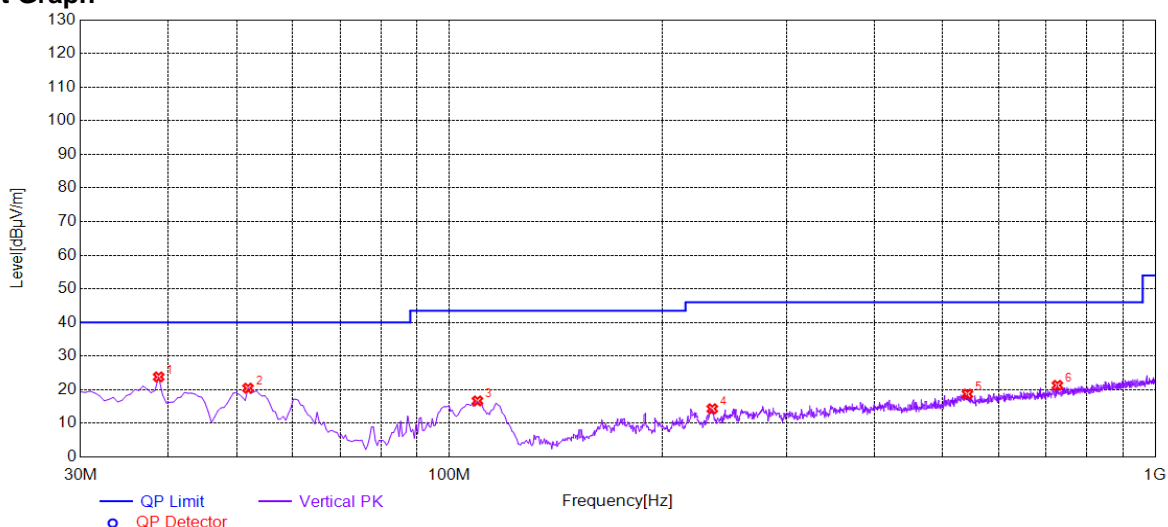
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7934	9.70	-32.19	40.00	30.30	231	247	Horizontal
2	98.4192	16.46	-31.96	43.50	27.04	206	82	Horizontal
3	117.828	20.21	-32.92	43.50	23.29	142	232	Horizontal
4	189.644	20.73	-31.92	43.50	22.77	148	88	Horizontal
5	291.060	17.82	-28.11	46.00	28.18	249	94	Horizontal
6	949.534	24.11	-14.48	46.00	21.89	152	138	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	23.82	-31.57	40.00	16.18	222	312	Vertical
2	51.8359	20.48	-30.46	40.00	19.52	291	22	Vertical
3	109.579	16.68	-31.69	43.50	26.82	267	87	Vertical
4	235.742	14.35	-29.75	46.00	31.65	235	16	Vertical
5	541.931	18.72	-21.65	46.00	27.28	279	156	Vertical
6	726.808	21.31	-18.06	46.00	24.69	264	337	Vertical

### Final Data List



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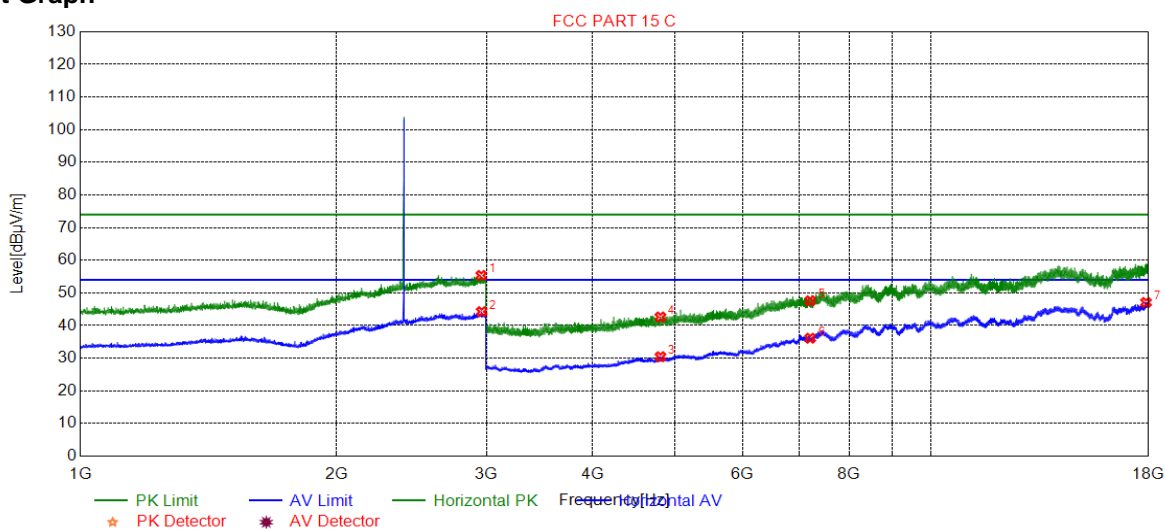
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### 1.1.2 Transmitter Emission above 1GHz

### 1.1.2.1 GFSK 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	2958.48	55.36	9.64	74.00	18.64	178	328	Horizontal
2	2961.99	44.27	9.62	54.00	9.73	102	260	Horizontal
3	4804.00	30.47	-18.30	54.00	23.53	123	232	Horizontal
4	4804.00	42.64	-18.30	74.00	31.36	187	121	Horizontal
5	7206.00	47.61	-10.09	74.00	26.39	208	68	Horizontal
6	7206.00	36.14	-10.09	54.00	17.86	116	320	Horizontal
7	17873.4	47.09	0.34	54.00	6.91	131	68	Horizontal

### Final Data List



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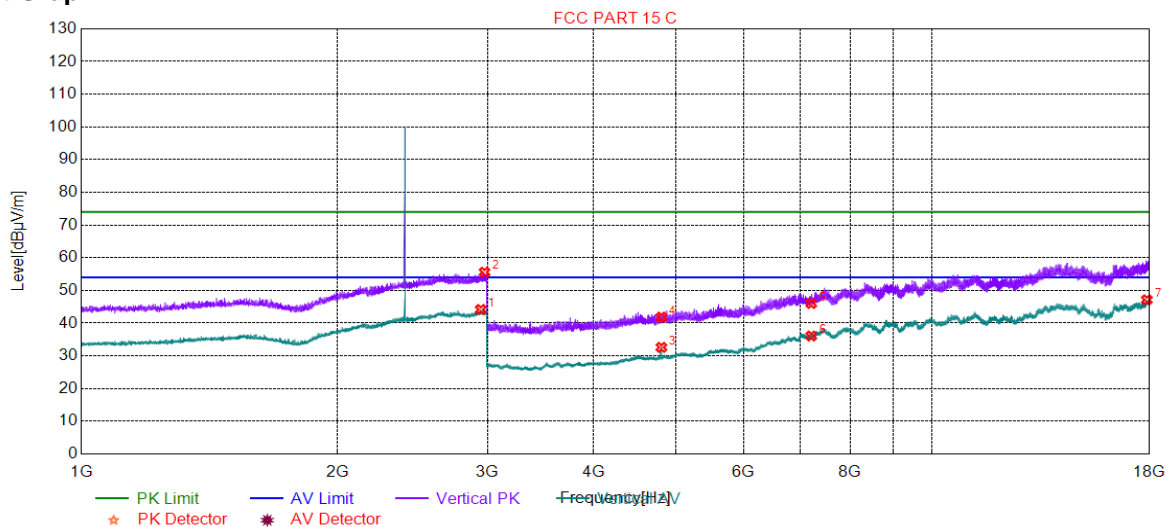
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### 1.1.2.2 GFSK\_Channel 0

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.48	44.20	9.64	54.00	9.80	291	336	Vertical
2	2976.99	55.59	9.56	74.00	18.41	161	336	Vertical
3	4804.00	32.62	-18.30	54.00	21.38	270	204	Vertical
4	4804.00	41.88	-18.30	74.00	32.12	198	67	Vertical
5	7206.00	46.03	-10.09	74.00	27.97	220	360	Vertical
6	7206.00	36.08	-10.09	54.00	17.92	276	69	Vertical
7	17867.4	47.15	0.26	54.00	6.85	279	119	Vertical

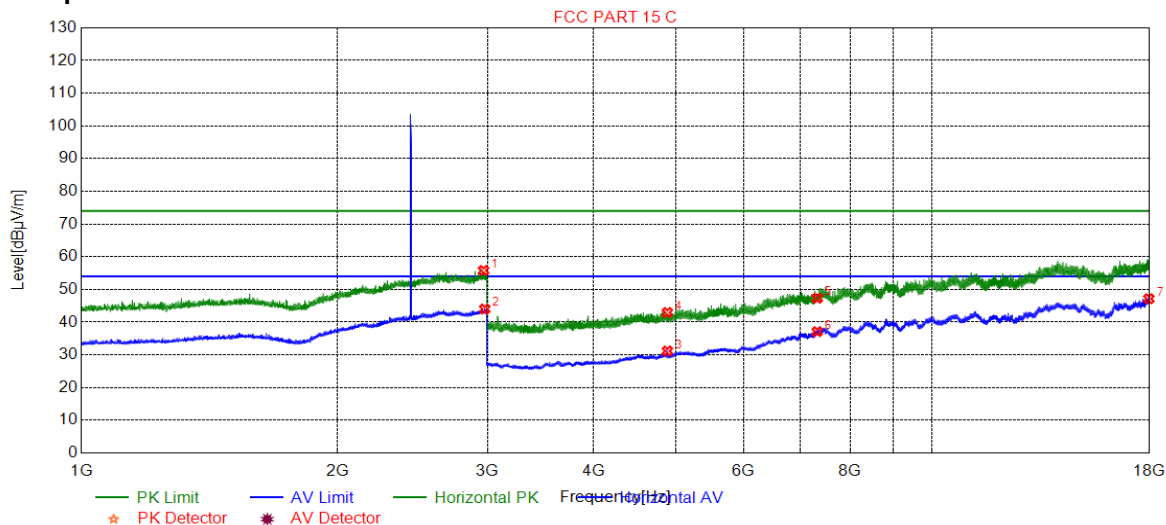
#### Final Data List





### 1.1.2.3 GFSK\_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	2968.99	55.82	9.59	74.00	18.18	116	138	Horizontal
2	2978.49	44.04	9.55	54.00	9.96	108	29	Horizontal
3	4882.00	31.20	-17.96	54.00	22.80	241	14	Horizontal
4	4882.00	42.97	-17.96	74.00	31.03	166	342	Horizontal
5	7323.00	47.33	-9.71	74.00	26.67	114	321	Horizontal
6	7323.00	37.12	-9.71	54.00	16.88	148	271	Horizontal
7	17961.4	47.17	0.71	54.00	6.83	176	321	Horizontal

#### Final Data List

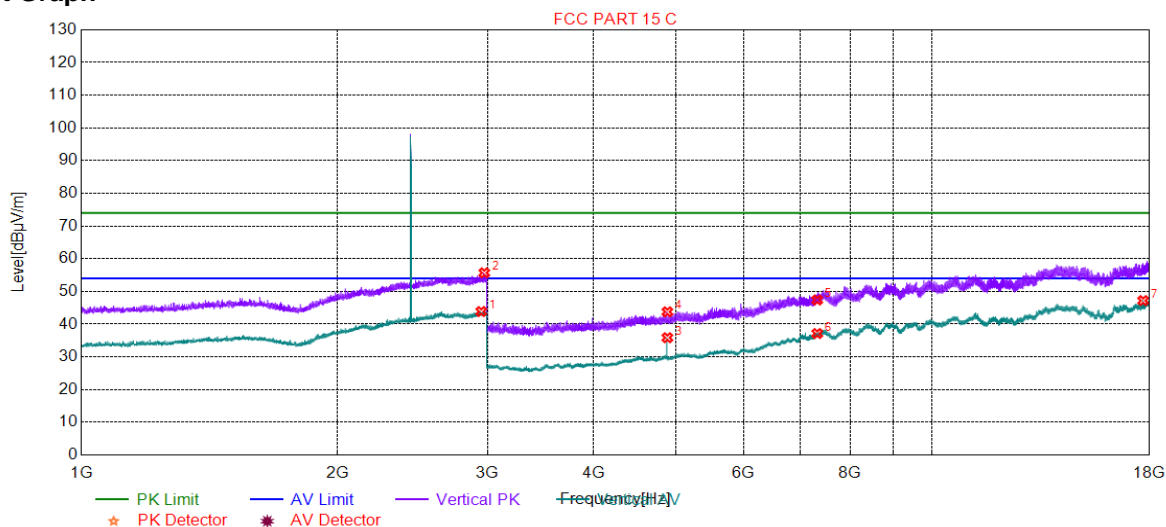






#### 1.1.2.4 GFSK\_Channel 39

##### Test Graph



##### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.48	43.88	9.68	54.00	10.12	268	250	Vertical
2	2974.99	55.70	9.57	74.00	18.30	277	72	Vertical
3	4882.00	35.87	-17.96	54.00	18.13	282	206	Vertical
4	4882.00	43.79	-17.96	74.00	30.21	278	179	Vertical
5	7323.00	47.40	-9.71	74.00	26.60	172	269	Vertical
6	7323.00	37.15	-9.71	54.00	16.85	268	269	Vertical
7	17687.0	47.21	1.35	54.00	6.79	206	169	Vertical

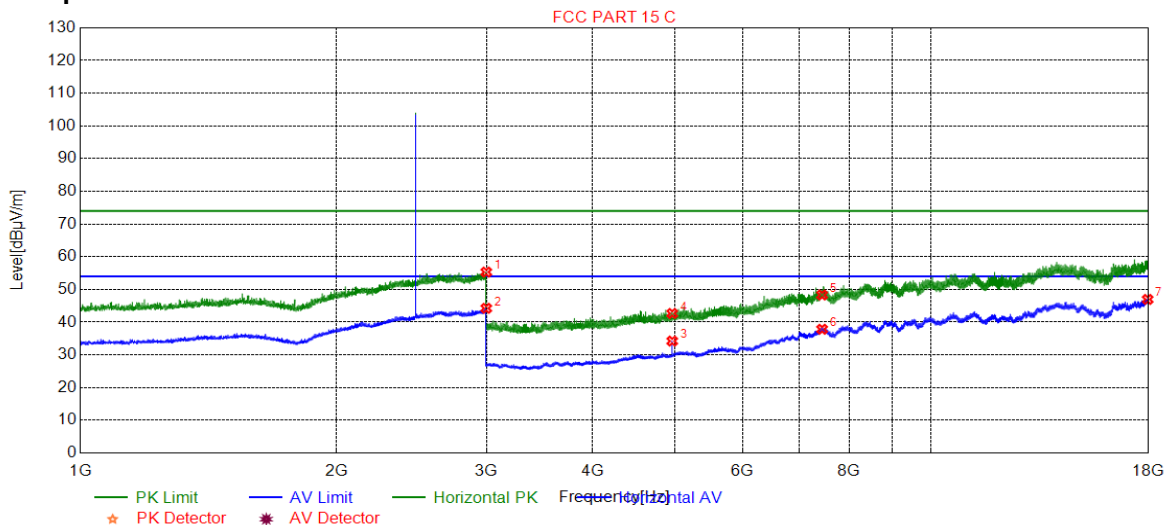
##### Final Data List





### 1.1.2.5 GFSK\_Channel 78

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2998.99	55.33	9.45	74.00	18.67	206	190	Horizontal
2	2998.99	44.25	9.45	54.00	9.75	112	163	Horizontal
3	4960.00	34.23	-17.47	54.00	19.77	241	200	Horizontal
4	4960.00	42.67	-17.47	74.00	31.33	172	200	Horizontal
5	7440.00	48.32	-9.35	74.00	25.68	121	320	Horizontal
6	7440.00	37.85	-9.35	54.00	16.15	173	269	Horizontal
7	17953.7	46.97	0.71	54.00	7.03	215	218	Horizontal

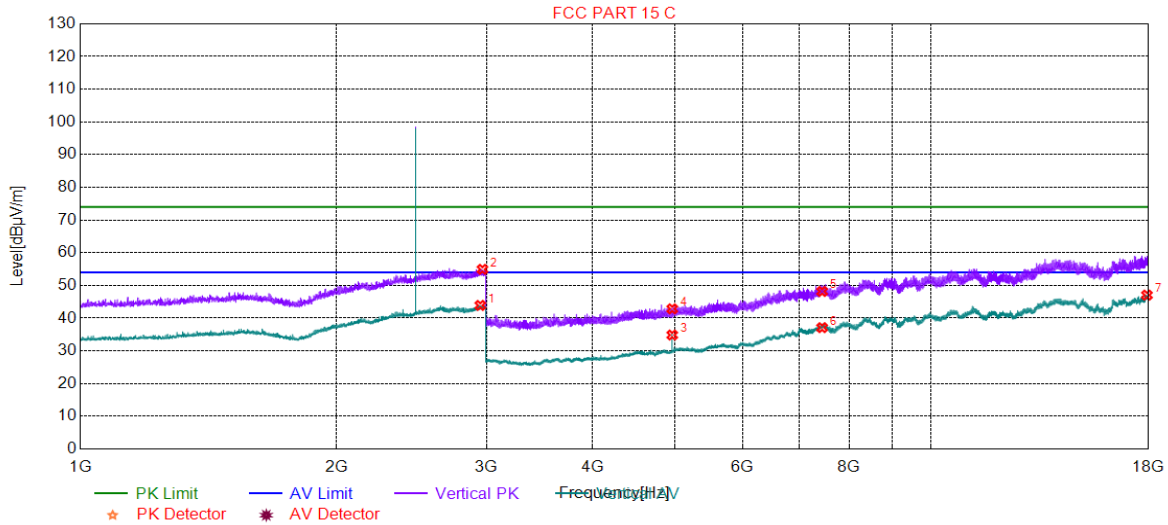
#### Final Data List





### 1.1.2.6 GFSK\_Channel 78

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.48	43.91	9.68	54.00	10.09	180	196	Vertical
2	2967.99	54.94	9.60	74.00	19.06	165	358	Vertical
3	4960.00	34.86	-17.47	54.00	19.14	273	206	Vertical
4	4960.00	42.86	-17.47	74.00	31.14	208	178	Vertical
5	7440.00	48.18	-9.35	74.00	25.82	192	119	Vertical
6	7440.00	37.11	-9.35	54.00	16.89	215	169	Vertical
7	17918.0	47.06	0.70	54.00	6.94	295	219	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 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.





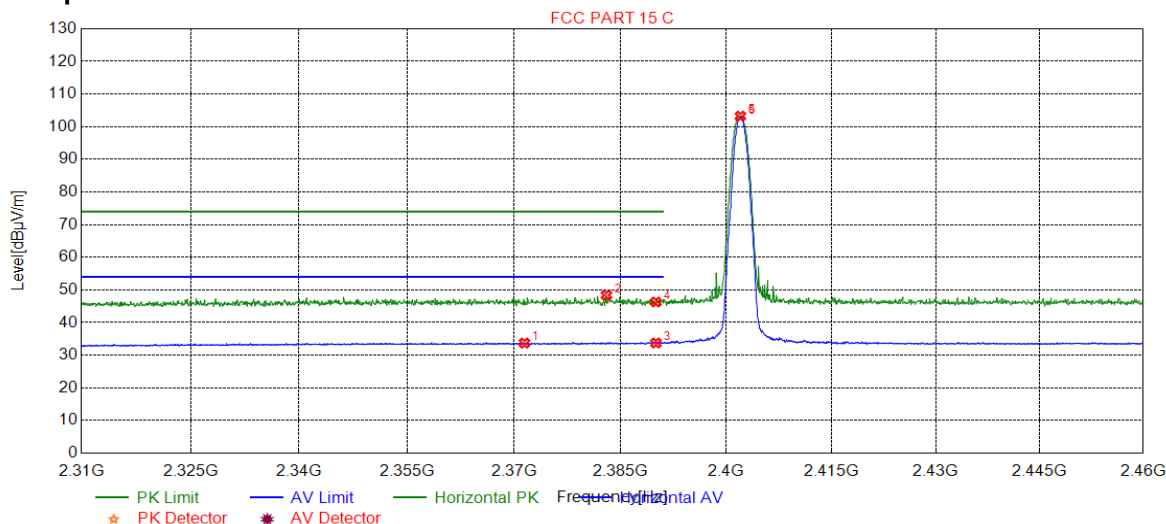


## 1.2 Restricted bands around fundamental frequency

### 1.2.1 Test plots

#### 1.2.1.1 Worst Case Mode (GFSK(DH5)) \_Lowest Channel

##### Test Graph



##### Suspected List

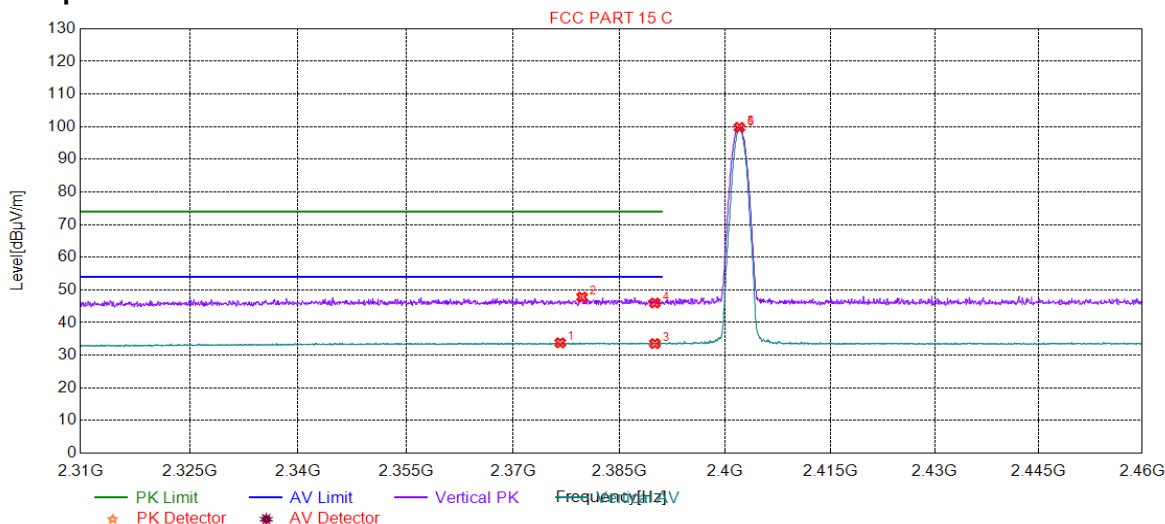
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.45	33.73	7.79	54.00	20.27	245	206	Horizontal
2	2383.01	48.40	7.78	74.00	25.60	123	212	Horizontal
3	2390.00	33.76	7.77	54.00	20.24	108	112	Horizontal
4	2390.00	46.31	7.77	74.00	27.69	222	336	Horizontal
5	2402.00	103.25	7.77	0.00	-103.25	213	217	Horizontal
6	2402.00	103.06	7.77	0.00	-103.06	232	151	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	2376.63	33.81	7.78	54.00	20.19	213	167	Vertical
2	2379.70	47.83	7.78	74.00	26.17	226	210	Vertical
3	2390.00	33.57	7.77	54.00	20.43	180	139	Vertical
4	2390.00	46.01	7.77	74.00	27.99	190	90	Vertical
5	2402.00	99.80	7.77	0.00	-99.80	200	226	Vertical
6	2402.00	99.55	7.77	0.00	-99.55	151	226	Vertical

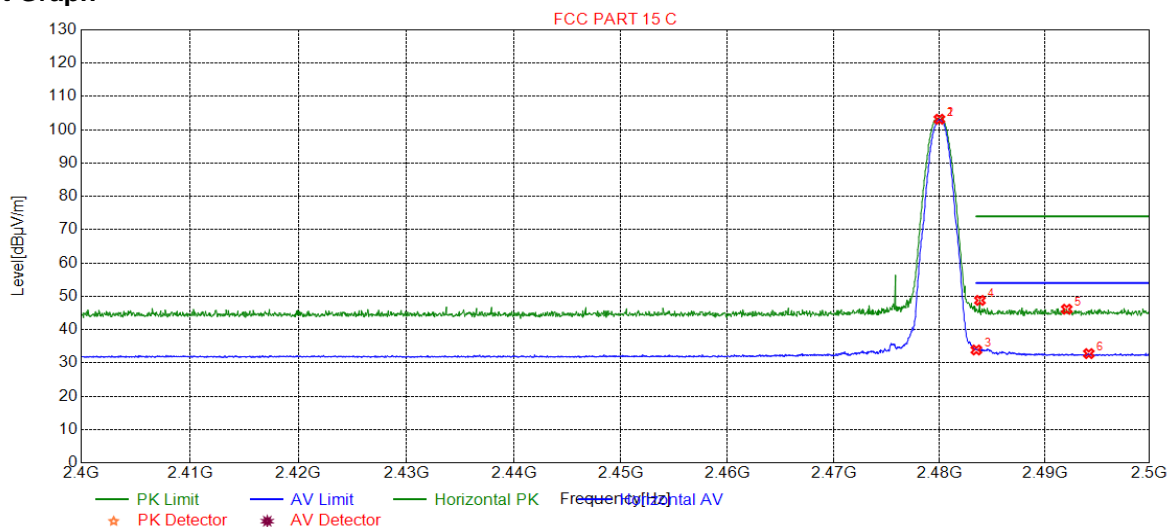
### Final Data List





### 1.2.1.2 Worst Case Mode (GFSK(DH5)) \_Highest Channel

#### Test Graph



#### Suspected List

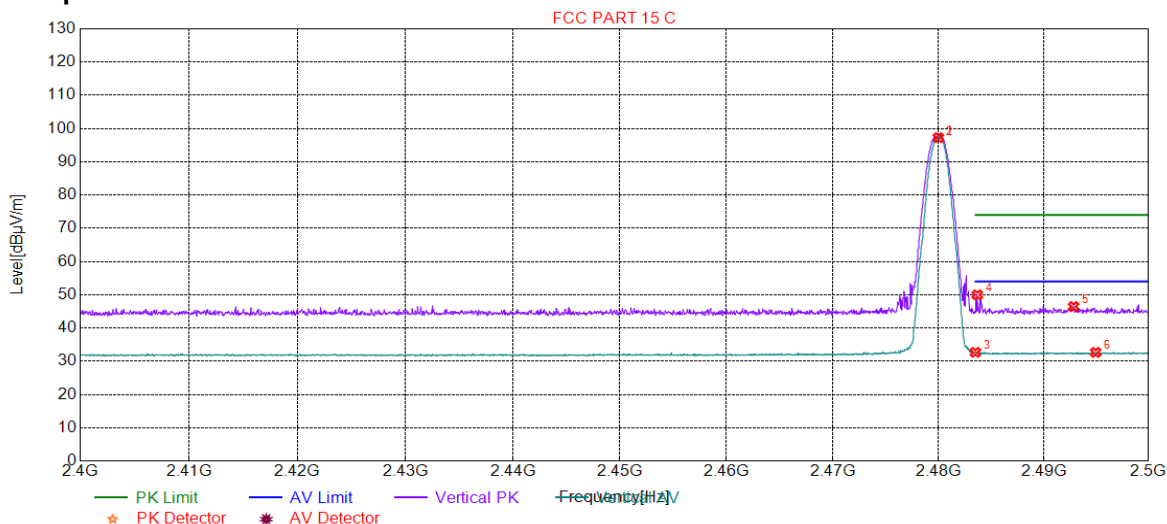
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	103.16	8.01	0.00	-103.16	230	210	Horizontal
2	2480.00	103.01	8.01	0.00	-103.01	140	161	Horizontal
3	2483.50	33.91	8.01	54.00	20.09	171	199	Horizontal
4	2483.84	48.79	8.01	74.00	25.21	213	303	Horizontal
5	2492.09	46.14	8.02	74.00	27.86	142	276	Horizontal
6	2494.19	32.82	8.02	54.00	21.18	194	161	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	2480.00	97.27	8.01	0.00	-97.27	278	218	Vertical
2	2480.00	97.14	8.01	0.00	-97.14	254	218	Vertical
3	2483.50	32.71	8.01	54.00	21.29	251	223	Vertical
4	2483.69	50.00	8.01	74.00	24.00	268	191	Vertical
5	2492.84	46.47	8.02	74.00	27.53	163	267	Vertical
6	2494.94	32.69	8.02	54.00	21.31	271	331	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.

