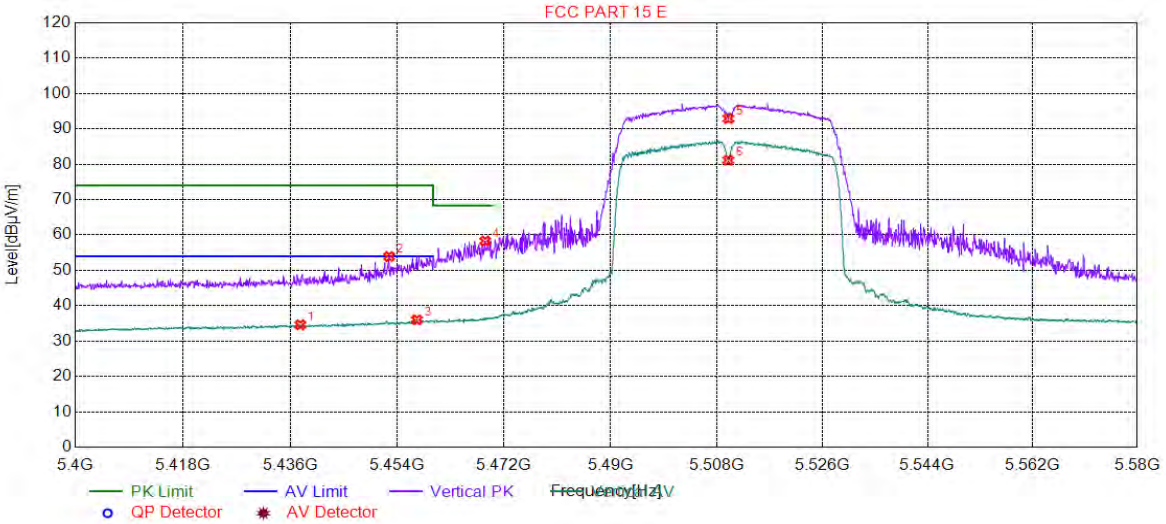
4.10.1.41 11N40_102 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5437.63	34.60	16.25	54.00	19.40	260	324	Vertical
2	5452.58	53.89	16.25	74.00	20.11	274	154	Vertical
3	5457.26	36.01	16.25	54.00	17.99	226	308	Vertical
4	5468.79	58.32	16.25	68.30	9.98	181	324	Vertical
5	5510.00	92.90	16.28	0.00	-92.90	193	147	Vertical
6	5510.00	81.17	16.28	0.00	-81.17	202	154	Vertical

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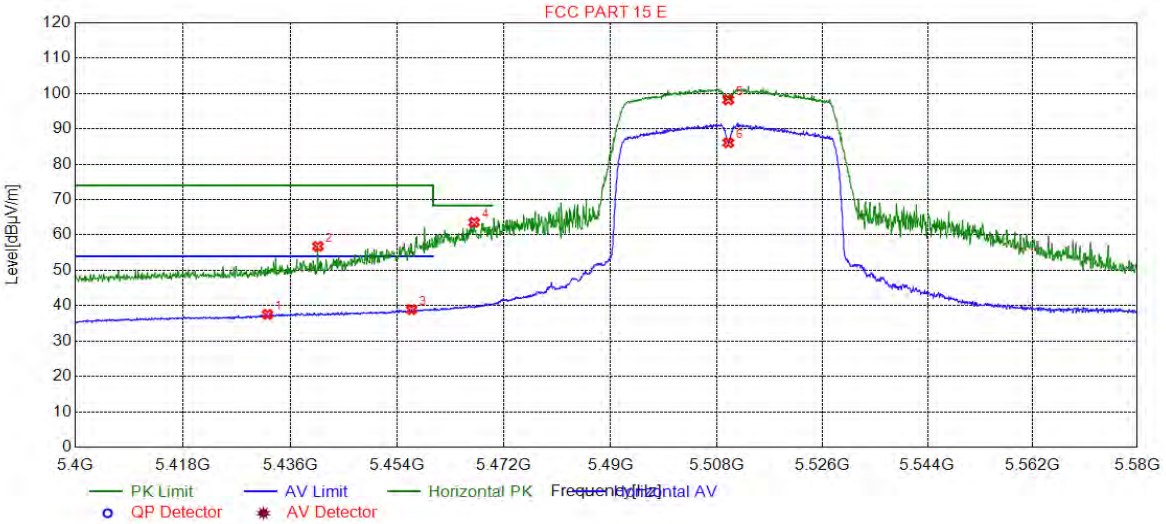
4.10.1.42 11N40_102 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5432.14	37.56	16.25	54.00	16.44	190	0	Horizontal
2	5440.61	56.80	16.25	74.00	17.20	150	332	Horizontal
3	5456.36	38.90	16.25	54.00	15.10	144	332	Horizontal
4	5466.90	63.56	16.25	68.30	4.74	116	332	Horizontal
5	5510.00	98.21	16.28	0.00	-98.21	166	332	Horizontal
6	5510.00	86.08	16.28	0.00	-86.08	157	219	Horizontal

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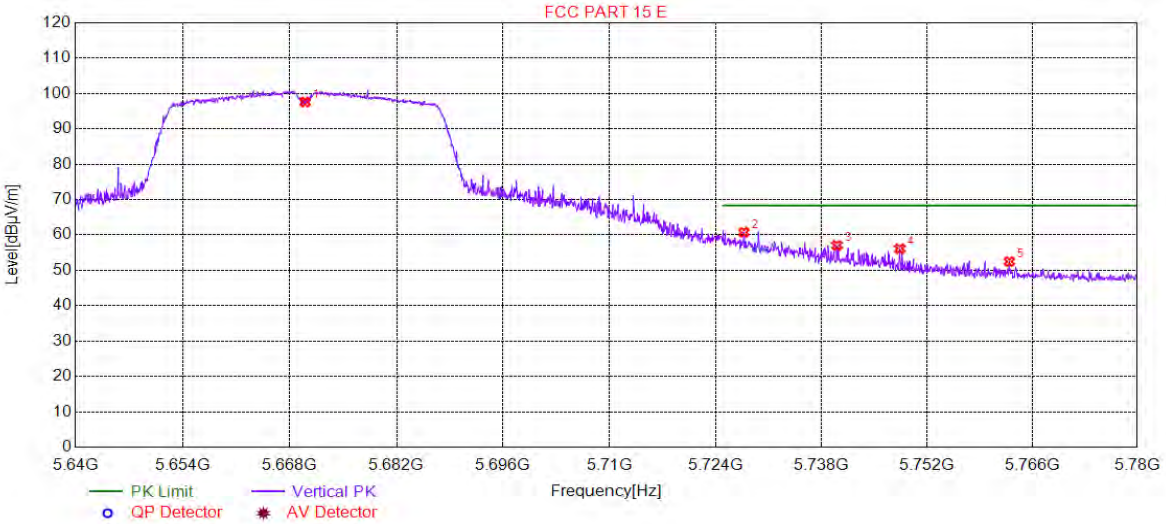
4.10.1.43 11N40_134 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	97.59	16.64	0.00	-97.59	173	291	Vertical
2	5727.75	60.77	16.98	68.30	7.53	283	291	Vertical
3	5740.08	57.06	17.06	68.30	11.24	224	284	Vertical
4	5748.41	56.13	17.11	68.30	12.17	228	157	Vertical
5	5762.98	52.49	17.14	68.30	15.81	174	122	Vertical

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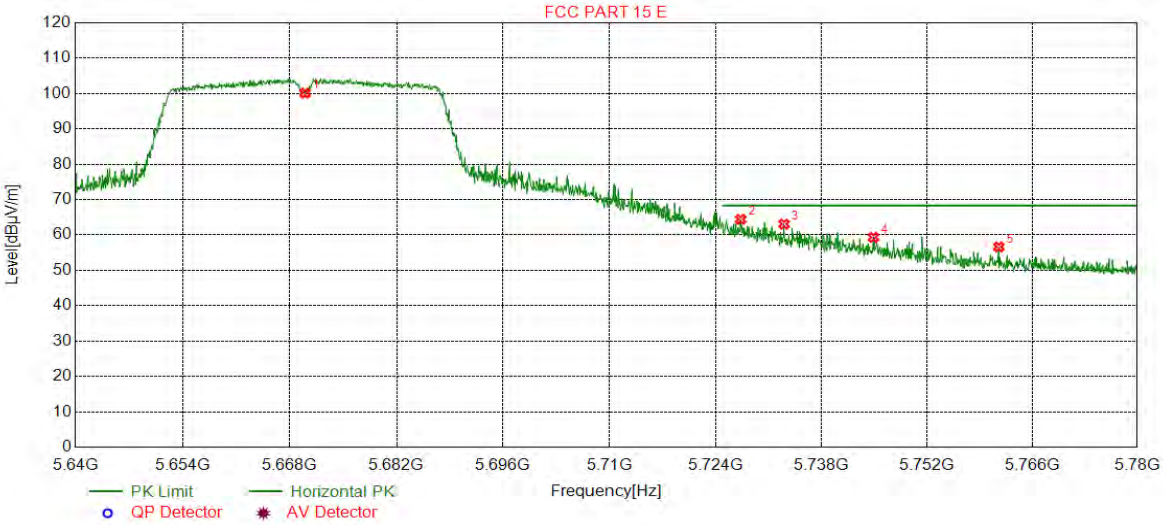
4.10.1.44 11N40_134 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	100.09	16.64	0.00	-100.09	215	332	Horizontal
2	5727.33	64.43	16.97	68.30	3.87	177	193	Horizontal
3	5733.07	63.08	17.01	68.30	5.22	296	332	Horizontal
4	5744.91	59.33	17.09	68.30	8.97	229	226	Horizontal
5	5761.58	56.64	17.14	68.30	11.66	283	219	Horizontal

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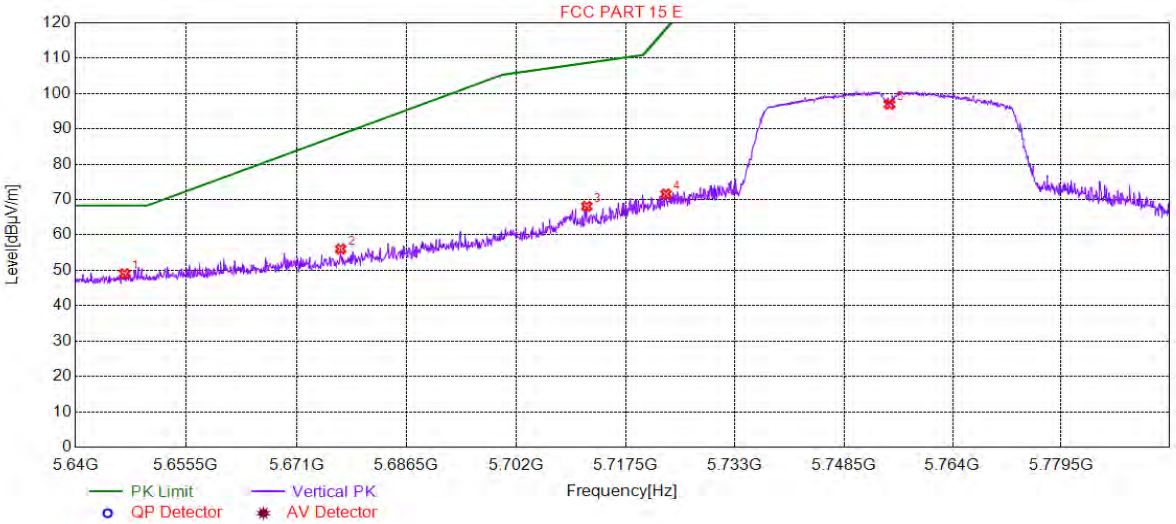
4.10.1.45 11N40_151 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.90	49.02	16.53	68.30	19.28	202	265	Vertical
2	5677.21	56.07	16.68	88.44	32.37	276	154	Vertical
3	5711.95	68.10	16.88	108.65	40.55	201	170	Vertical
4	5723.19	71.57	16.95	118.19	46.62	214	337	Vertical
5	5755.00	96.92	17.13	0.00	-96.92	226	293	Vertical

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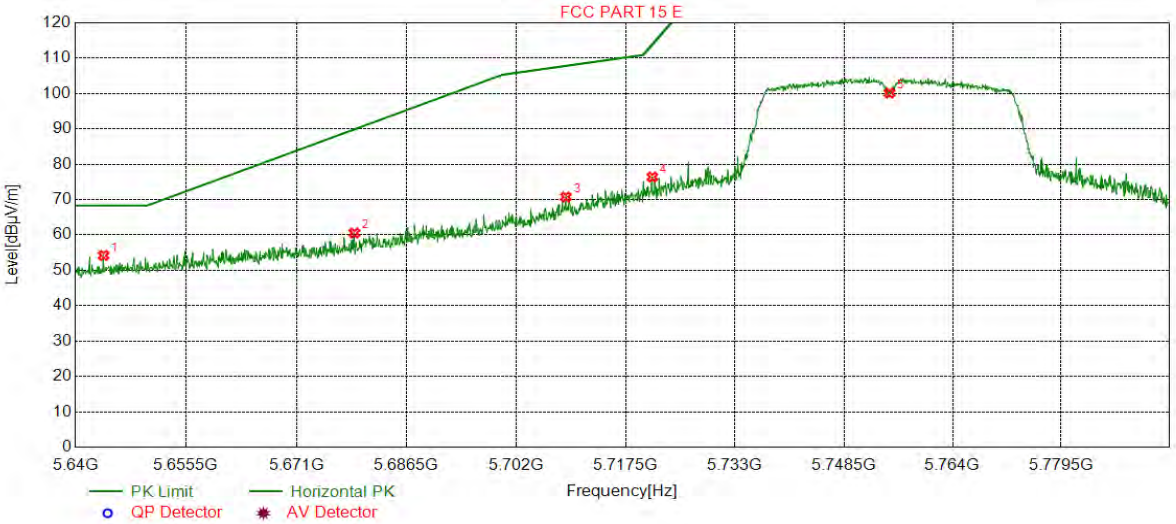
4.10.1.46 11N40_151 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.95	54.22	16.54	68.30	14.08	184	220	Horizontal
2	5679.15	60.55	16.69	89.88	29.33	124	220	Horizontal
3	5709.00	70.75	16.86	107.82	37.07	248	220	Horizontal
4	5721.26	76.40	16.94	113.77	37.37	245	220	Horizontal
5	5755.00	100.09	17.13	0.00	-100.09	206	220	Horizontal

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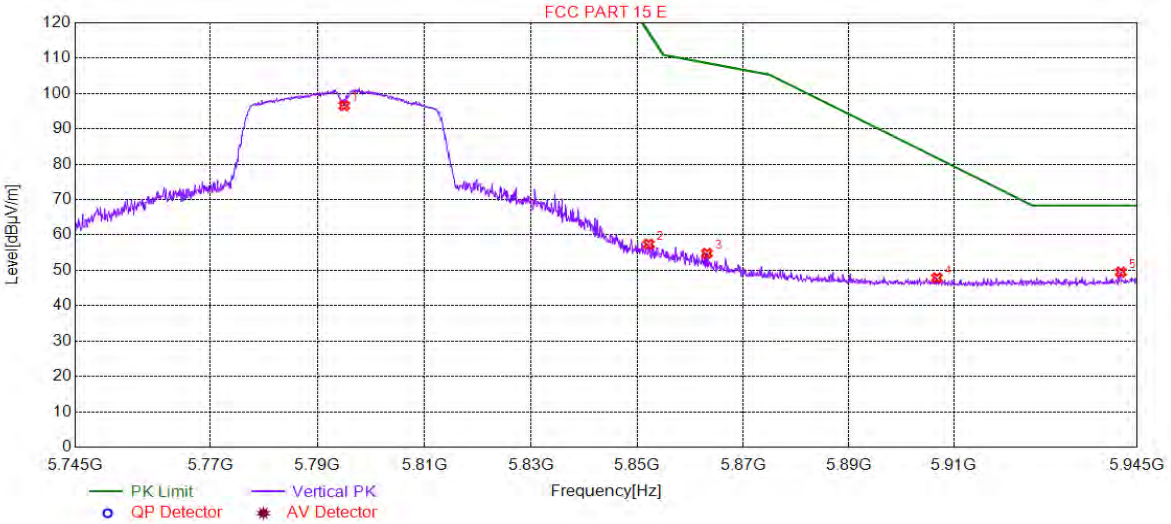
4.10.1.47 11N40_159 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	96.57	17.18	0.00	-96.57	227	290	Vertical
2	5852.15	57.41	17.25	117.39	59.98	254	149	Vertical
3	5863.15	54.81	17.22	108.62	53.81	200	132	Vertical
4	5906.78	47.88	17.21	81.78	33.90	212	136	Vertical
5	5941.89	49.50	17.76	68.30	18.80	285	322	Vertical

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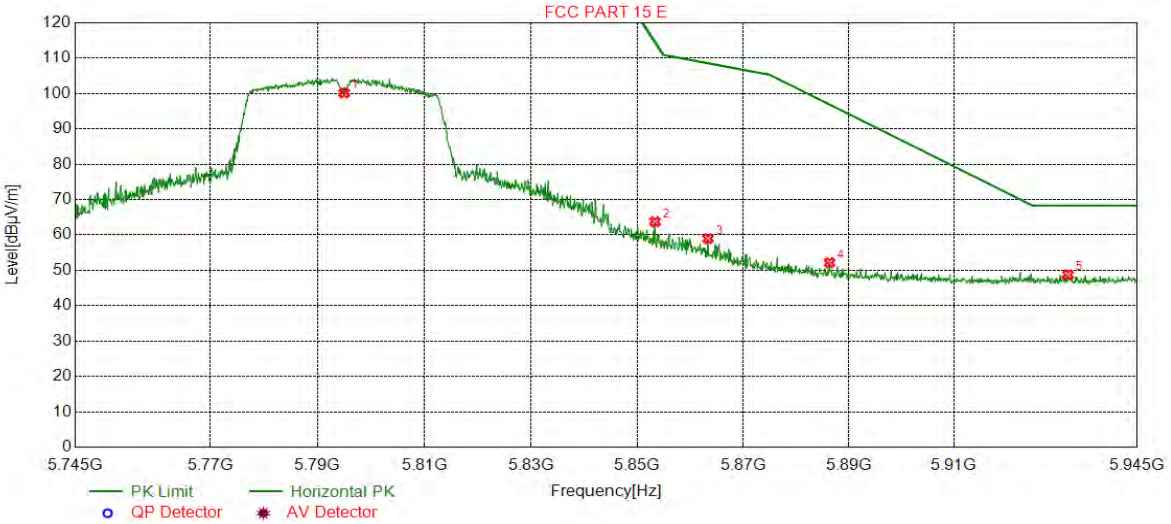
4.10.1.48 11N40_159 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	100.16	17.18	0.00	-100.16	248	230	Horizontal
2	5853.35	63.74	17.25	114.65	50.91	235	230	Horizontal
3	5863.35	58.96	17.22	108.56	49.60	184	237	Horizontal
4	5886.37	52.15	17.15	96.89	44.74	161	230	Horizontal
5	5931.79	48.74	17.60	68.30	19.56	112	224	Horizontal

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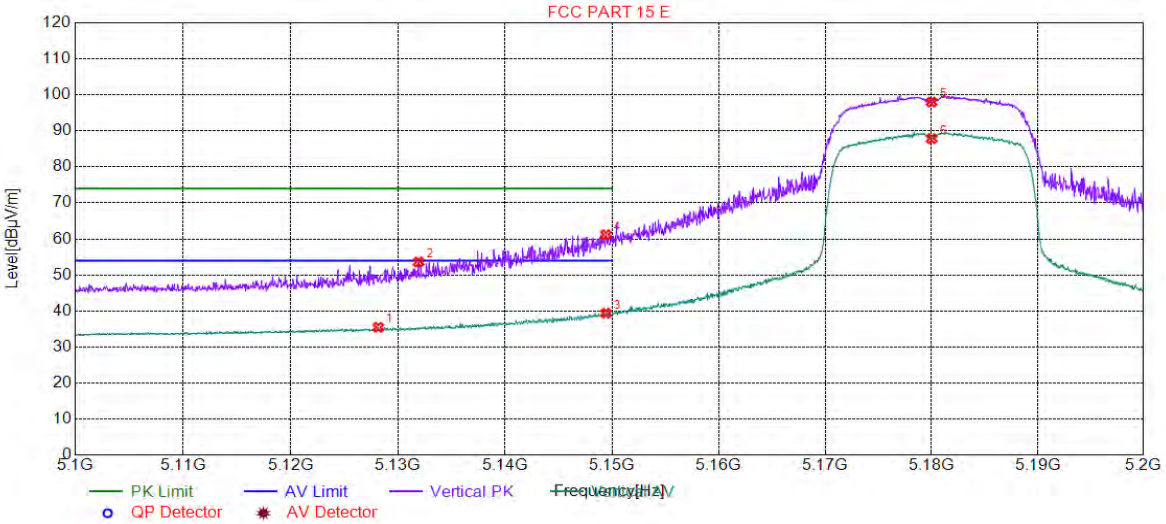
4.10.1.49 11AC20_36 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.16	35.48	15.33	54.00	18.52	279	291	Vertical
2	5131.91	53.61	15.36	74.00	20.39	188	319	Vertical
3	5149.42	39.37	15.52	54.00	14.63	209	324	Vertical
4	5149.42	61.14	15.52	74.00	12.86	293	291	Vertical
5	5180.00	97.97	15.56	0.00	-97.97	175	285	Vertical
6	5180.00	87.83	15.56	0.00	-87.83	265	285	Vertical

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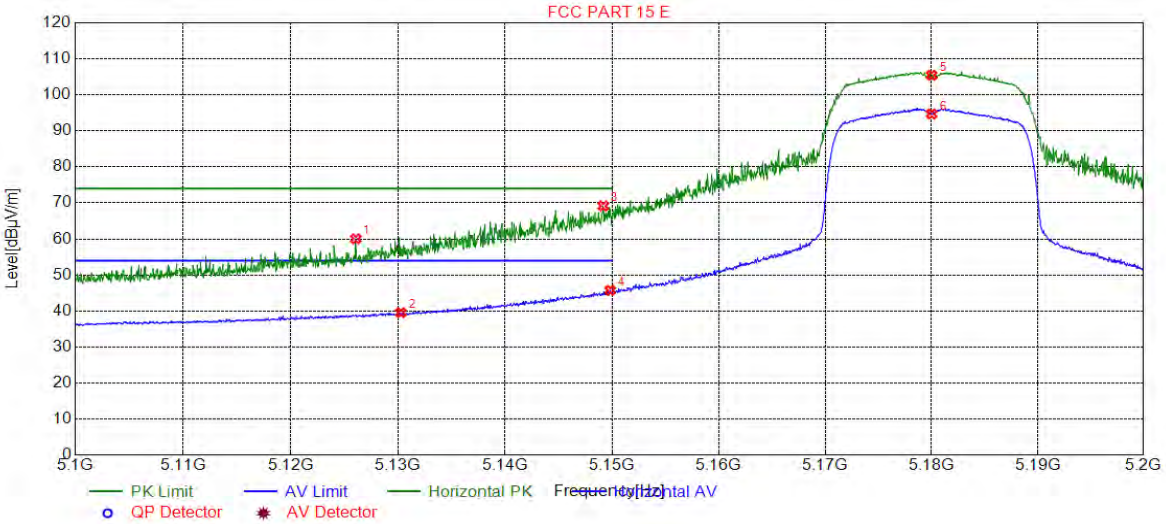
4.10.1.50 11AC20_36 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.06	60.04	15.31	74.00	13.96	100	356	Horizontal
2	5130.26	39.53	15.35	54.00	14.47	243	356	Horizontal
3	5149.17	69.13	15.51	74.00	4.87	202	324	Horizontal
4	5149.82	45.74	15.52	54.00	8.26	138	356	Horizontal
5	5180.00	105.44	15.56	0.00	-105.44	176	19	Horizontal
6	5180.00	94.68	15.56	0.00	-94.68	151	339	Horizontal

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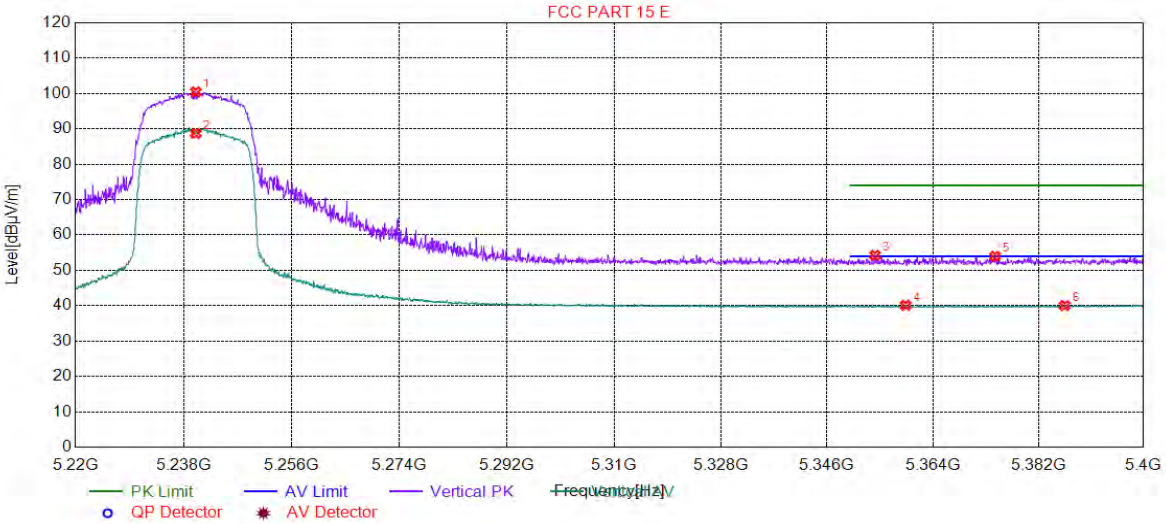
4.10.1.51 11AC20_48 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	100.46	15.49	0.00	-100.46	295	278	Vertical
2	5240.00	88.72	15.49	0.00	-88.72	181	313	Vertical
3	5354.16	54.27	15.97	74.00	19.73	296	202	Vertical
4	5359.38	40.11	16.00	54.00	13.89	261	313	Vertical
5	5374.60	53.98	16.09	74.00	20.02	224	195	Vertical
6	5386.49	40.06	16.17	54.00	13.94	248	302	Vertical

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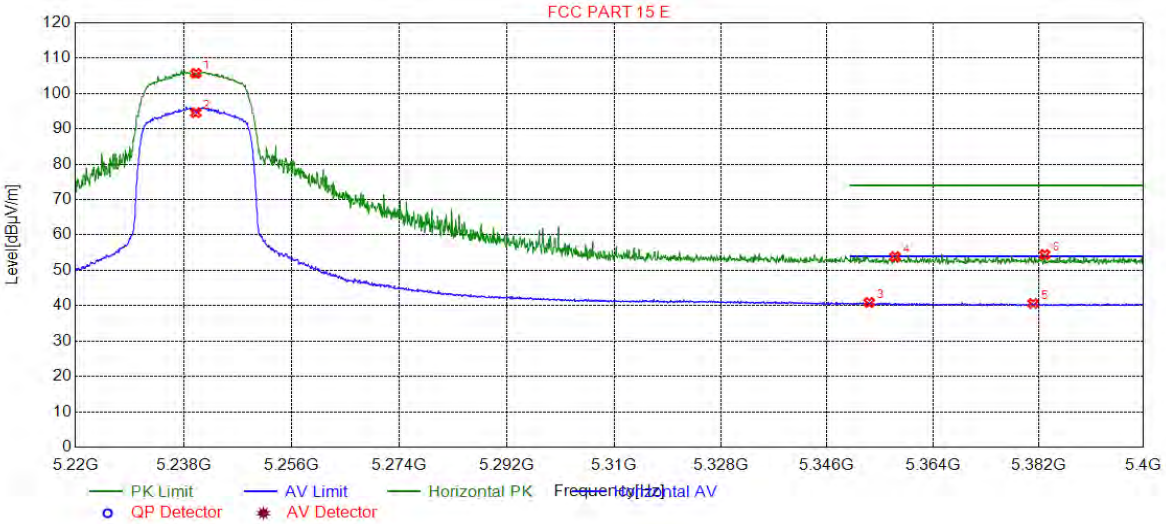
4.10.1.52 11AC20_48 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	105.70	15.49	0.00	-105.70	164	357	Horizontal
2	5240.00	94.56	15.49	0.00	-94.56	138	357	Horizontal
3	5353.17	40.91	15.96	54.00	13.09	160	357	Horizontal
4	5357.58	53.86	15.99	74.00	20.14	110	58	Horizontal
5	5381.09	40.63	16.13	54.00	13.37	216	345	Horizontal
6	5383.07	54.47	16.15	74.00	19.53	135	326	Horizontal

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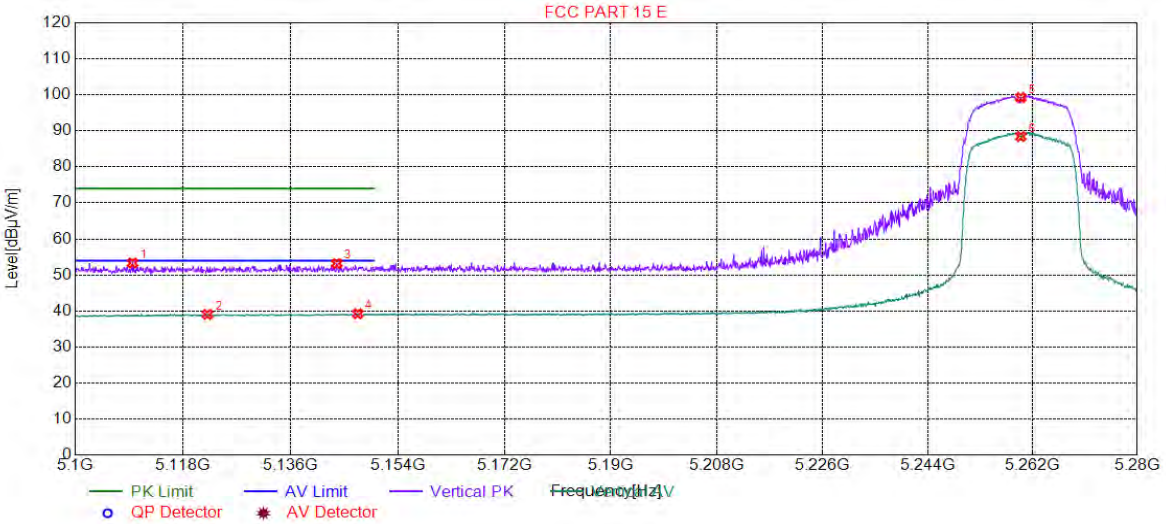
4.10.1.53 11AC20_52 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5109.54	53.32	15.17	74.00	20.68	184	141	Vertical
2	5122.06	39.05	15.28	54.00	14.95	255	32	Vertical
3	5143.76	53.18	15.47	74.00	20.82	287	147	Vertical
4	5147.27	39.24	15.50	54.00	14.76	243	342	Vertical
5	5260.00	99.26	15.51	0.00	-99.26	242	288	Vertical
6	5260.00	88.43	15.51	0.00	-88.43	239	280	Vertical

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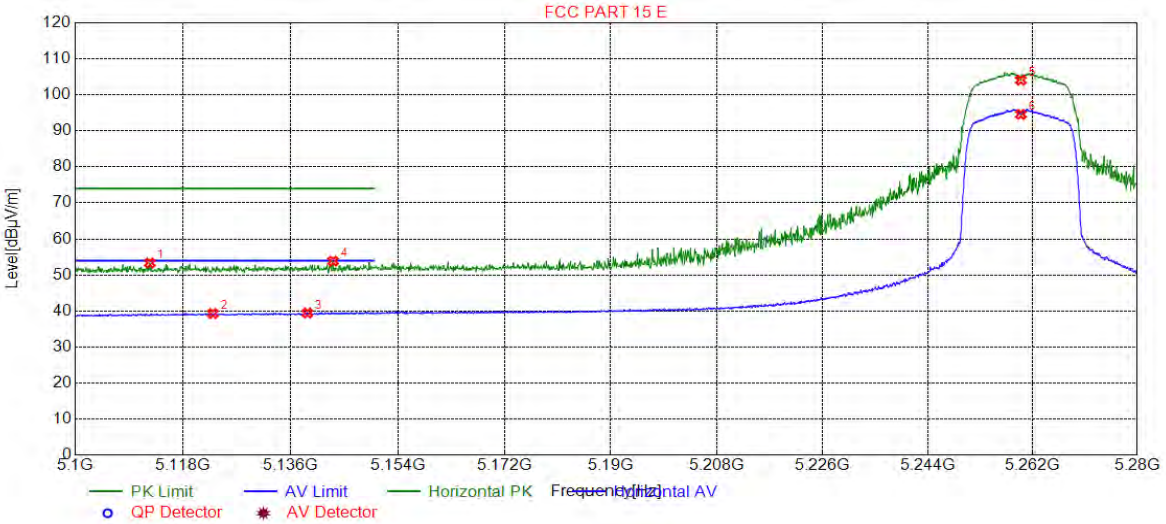
4.10.1.54 11AC20_52 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5112.42	53.32	15.20	74.00	20.68	178	227	Horizontal
2	5122.96	39.30	15.29	54.00	14.70	105	31	Horizontal
3	5138.80	39.42	15.42	54.00	14.58	157	31	Horizontal
4	5143.13	53.86	15.46	74.00	20.14	103	31	Horizontal
5	5260.00	104.06	15.51	0.00	-104.06	104	31	Horizontal
6	5260.00	94.57	15.51	0.00	-94.57	212	31	Horizontal

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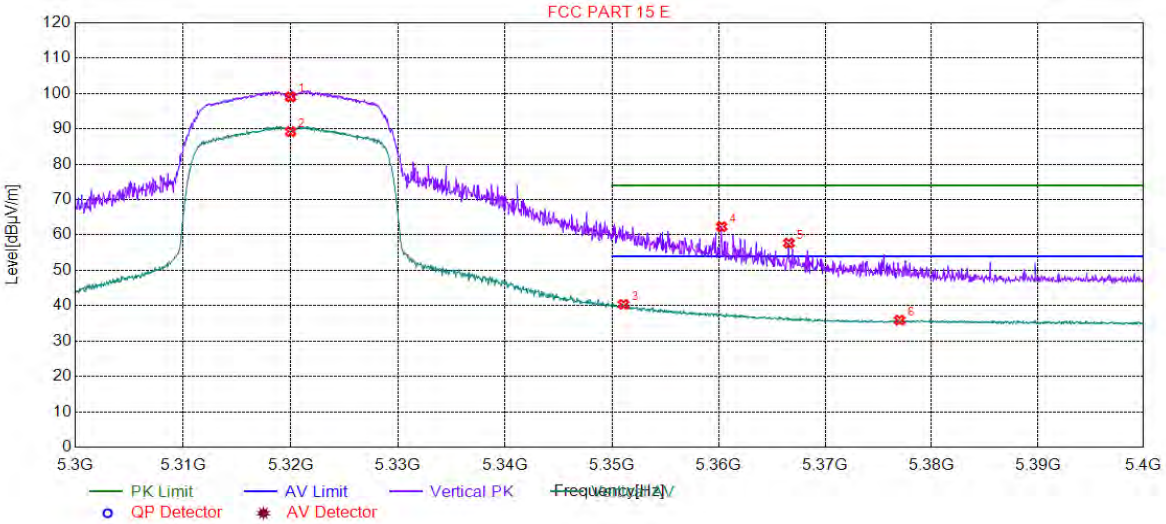
4.10.1.55 11AC20_64 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	99.04	15.80	0.00	-99.04	172	284	Vertical
2	5320.00	89.24	15.80	0.00	-89.24	280	284	Vertical
3	5351.07	40.38	15.95	54.00	13.62	212	291	Vertical
4	5360.28	62.36	16.00	74.00	11.64	223	284	Vertical
5	5366.58	57.69	16.04	74.00	16.31	290	325	Vertical
6	5376.98	35.91	16.11	54.00	18.09	270	298	Vertical

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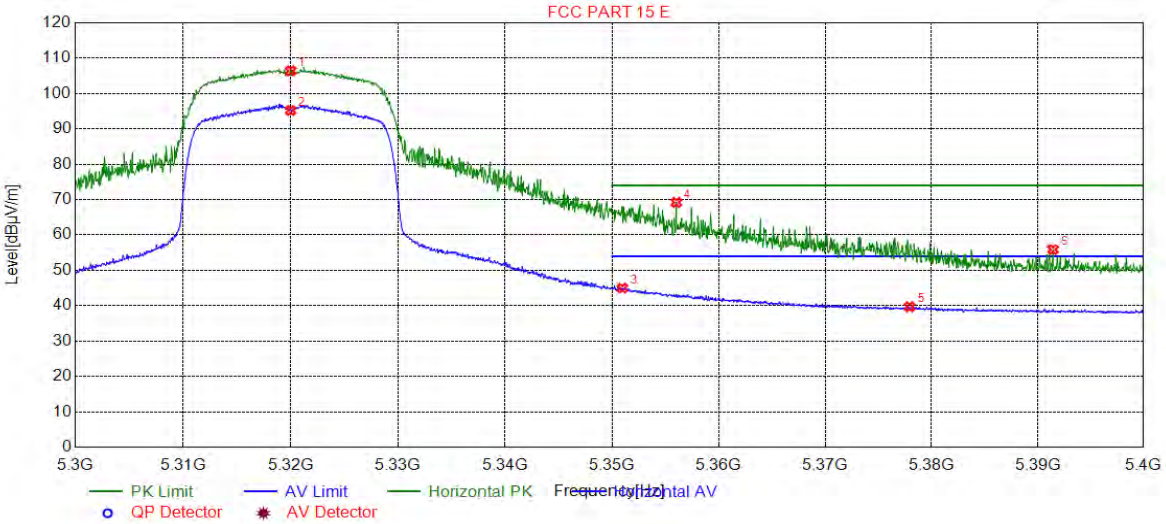
4.10.1.56 11AC20_64 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	106.40	15.80	0.00	-106.40	138	346	Horizontal
2	5320.00	95.21	15.80	0.00	-95.21	109	357	Horizontal
3	5350.97	44.96	15.95	54.00	9.04	105	357	Horizontal
4	5356.02	69.21	15.98	74.00	4.79	193	357	Horizontal
5	5377.93	39.70	16.11	54.00	14.30	233	357	Horizontal
6	5391.44	55.89	16.20	74.00	18.11	171	16	Horizontal

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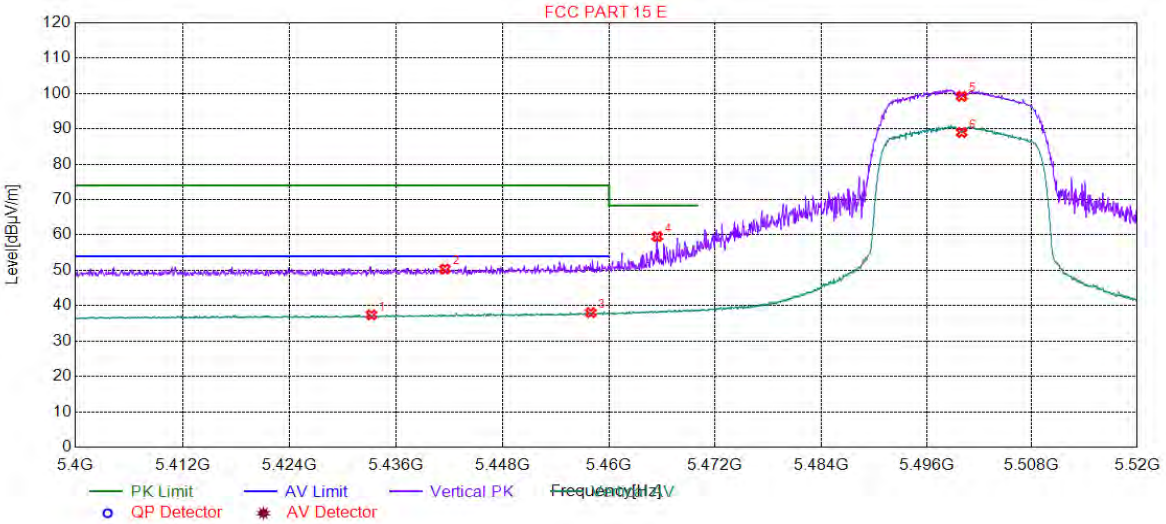
4.10.1.57 11AC20_100 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5433.19	37.42	16.25	54.00	16.58	269	326	Vertical
2	5441.48	50.39	16.25	74.00	23.61	251	296	Vertical
3	5457.92	38.03	16.25	54.00	15.97	245	307	Vertical
4	5465.43	59.55	16.25	68.30	8.75	187	269	Vertical
5	5500.00	99.25	16.25	0.00	-99.25	234	307	Vertical
6	5500.00	88.99	16.25	0.00	-88.99	291	269	Vertical

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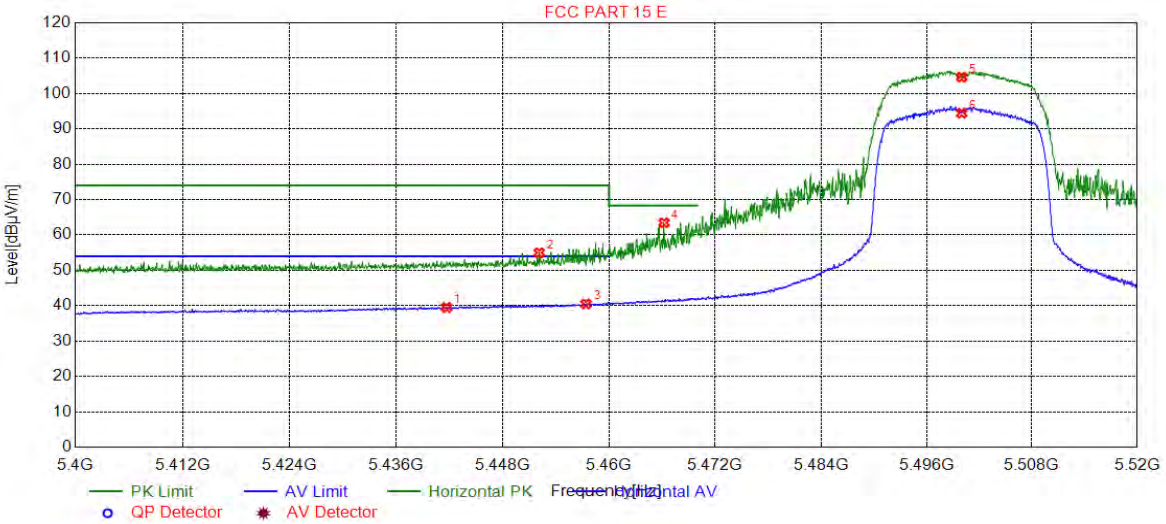
4.10.1.58 11AC20_100 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5441.66	39.51	16.25	54.00	14.49	154	352	Horizontal
2	5452.10	54.97	16.25	74.00	19.03	127	18	Horizontal
3	5457.38	40.50	16.25	54.00	13.50	123	358	Horizontal
4	5466.21	63.45	16.25	68.30	4.85	221	229	Horizontal
5	5500.00	104.62	16.25	0.00	-104.62	225	229	Horizontal
6	5500.00	94.45	16.25	0.00	-94.45	242	229	Horizontal

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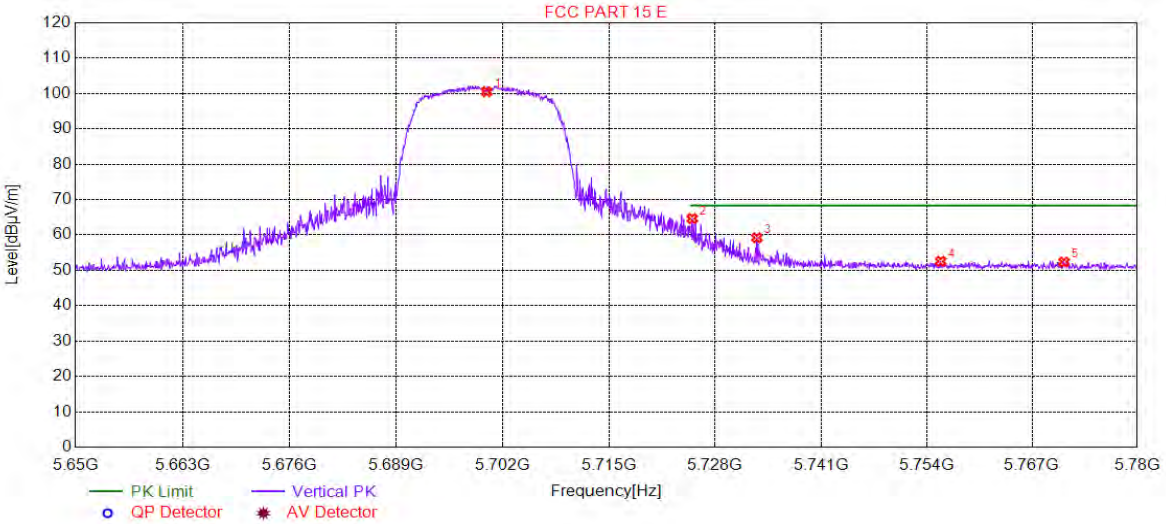
4.10.1.59 11AC20_140 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	100.50	16.80	0.00	-100.50	212	154	Vertical
2	5725.17	64.65	16.96	68.30	3.65	229	279	Vertical
3	5733.11	59.22	17.01	68.30	9.08	261	149	Vertical
4	5755.74	52.57	17.13	68.30	15.73	291	273	Vertical
5	5770.96	52.35	17.15	68.30	15.95	230	171	Vertical

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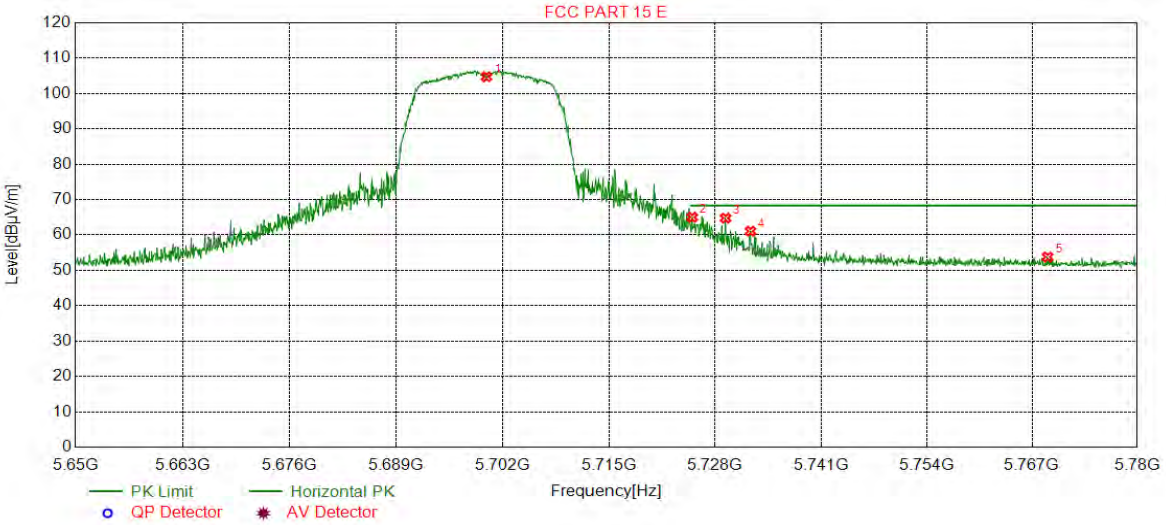
4.10.1.60 11AC20_140 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	104.73	16.80	0.00	-104.73	220	231	Horizontal
2	5725.17	65.01	16.96	68.30	3.29	218	231	Horizontal
3	5729.27	64.77	16.99	68.30	3.53	130	231	Horizontal
4	5732.33	61.06	17.01	68.30	7.24	149	241	Horizontal
5	5768.94	53.78	17.15	68.30	14.52	159	231	Horizontal

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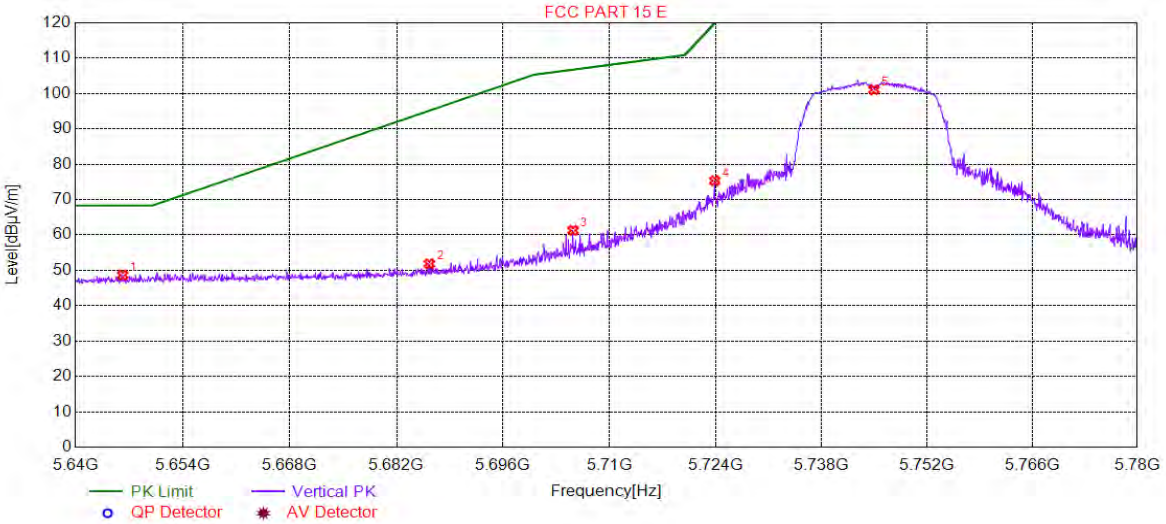
4.10.1.61 11AC20_149 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.16	48.67	16.53	68.30	19.63	190	304	Vertical
2	5686.29	51.84	16.73	95.16	43.32	195	304	Vertical
3	5705.20	61.30	16.83	106.76	45.46	234	327	Vertical
4	5723.90	75.35	16.95	119.80	44.45	232	272	Vertical
5	5745.00	101.07	17.09	0.00	-101.07	252	154	Vertical

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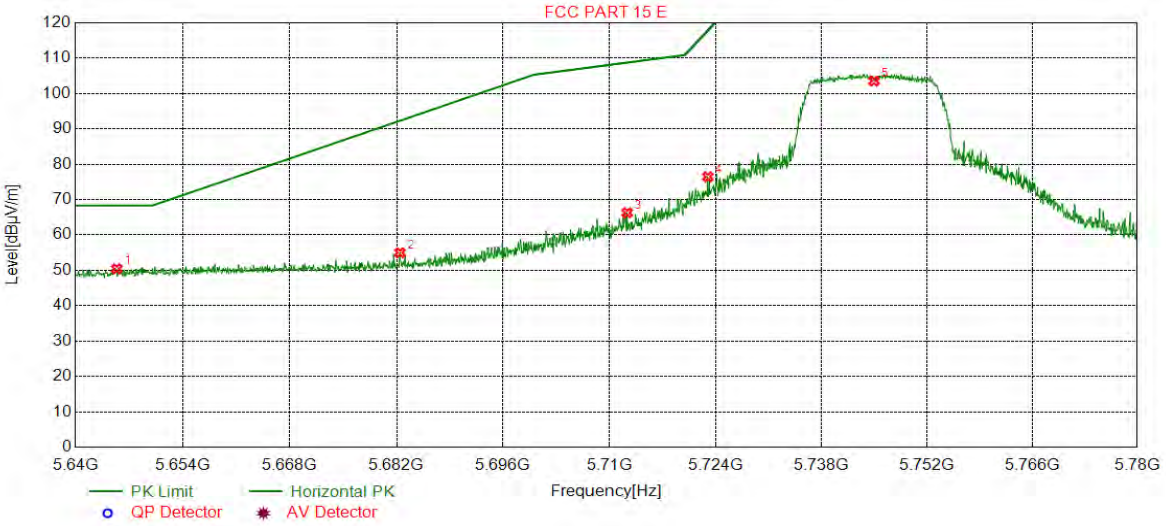
4.10.1.62 11AC20_149 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.39	50.44	16.54	68.30	17.86	209	225	Horizontal
2	5682.44	54.98	16.71	92.31	37.33	210	24	Horizontal
3	5712.34	66.30	16.88	108.76	42.46	178	225	Horizontal
4	5722.99	76.44	16.95	117.72	41.28	146	225	Horizontal
5	5745.00	103.50	17.09	0.00	-103.50	109	230	Horizontal

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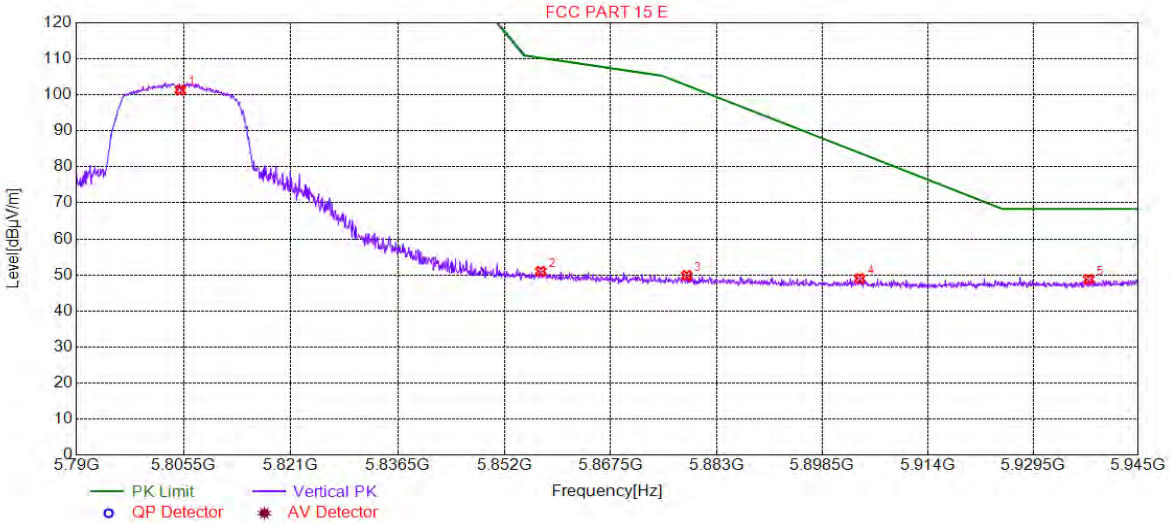
4.10.1.63 11AC20_161 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5805.00	101.33	17.20	0.00	-101.33	159	298	Vertical
2	5857.30	51.01	17.24	110.25	59.24	257	331	Vertical
3	5878.62	49.87	17.17	102.62	52.75	193	123	Vertical
4	5903.98	49.02	17.17	83.85	34.83	221	298	Vertical
5	5937.71	48.78	17.69	68.30	19.52	241	183	Vertical

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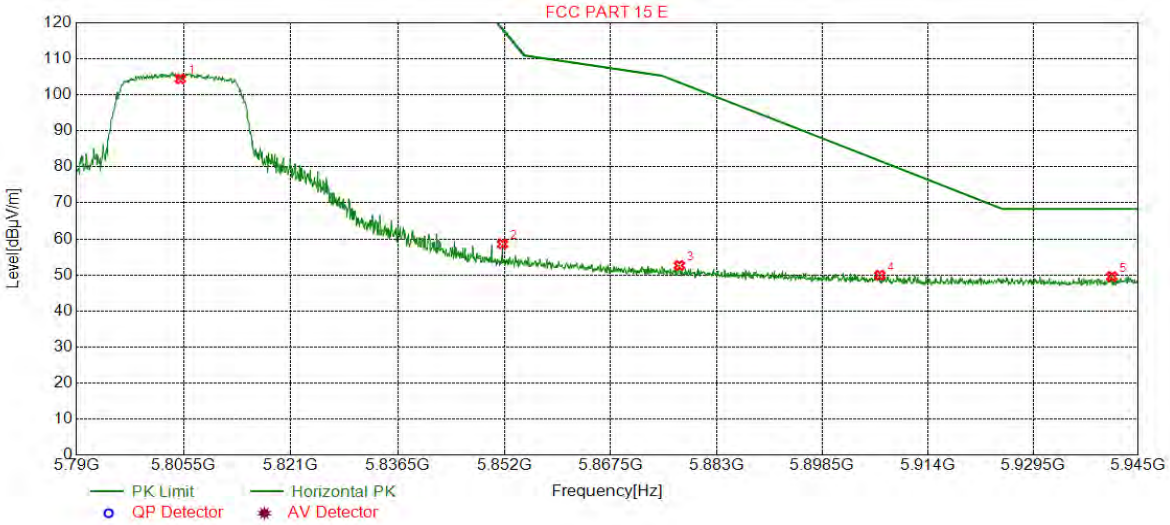
4.10.1.64 11AC20_161 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5805.00	104.44	17.20	0.00	-104.44	195	225	Horizontal
2	5851.72	58.61	17.25	118.38	59.77	170	219	Horizontal
3	5877.54	52.64	17.18	103.42	50.78	112	219	Horizontal
4	5906.92	49.93	17.22	81.67	31.74	220	215	Horizontal
5	5941.12	49.58	17.74	68.30	18.72	136	210	Horizontal

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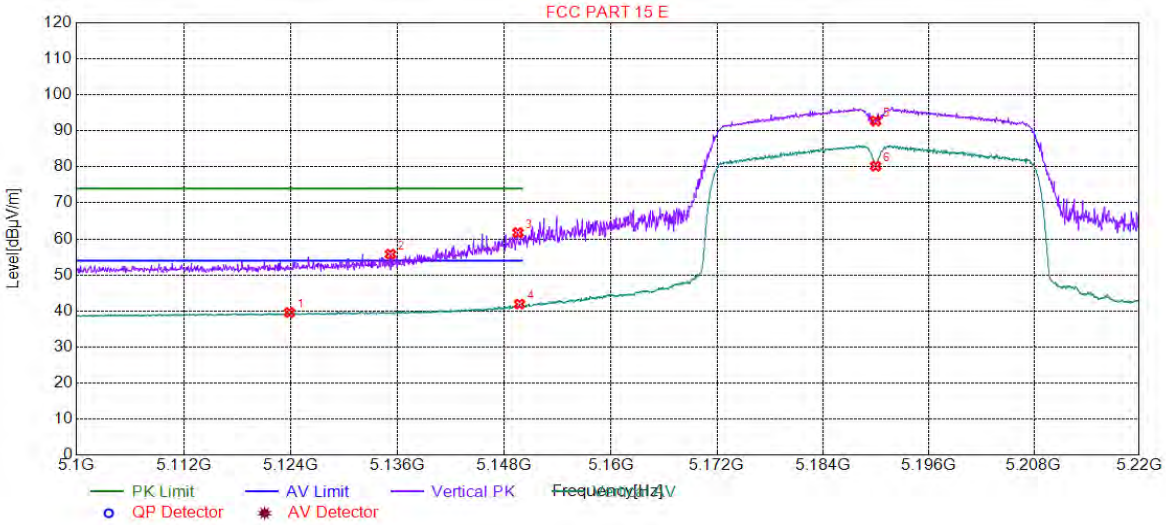
4.10.1.65 11AC40_38 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5123.83	39.56	15.29	54.00	14.44	250	273	Vertical
2	5135.17	55.79	15.39	74.00	18.21	150	282	Vertical
3	5149.52	61.76	15.52	74.00	12.24	153	293	Vertical
4	5149.70	41.92	15.52	54.00	12.08	227	293	Vertical
5	5190.00	92.73	15.58	0.00	-92.73	216	273	Vertical
6	5190.00	80.19	15.58	0.00	-80.19	161	282	Vertical

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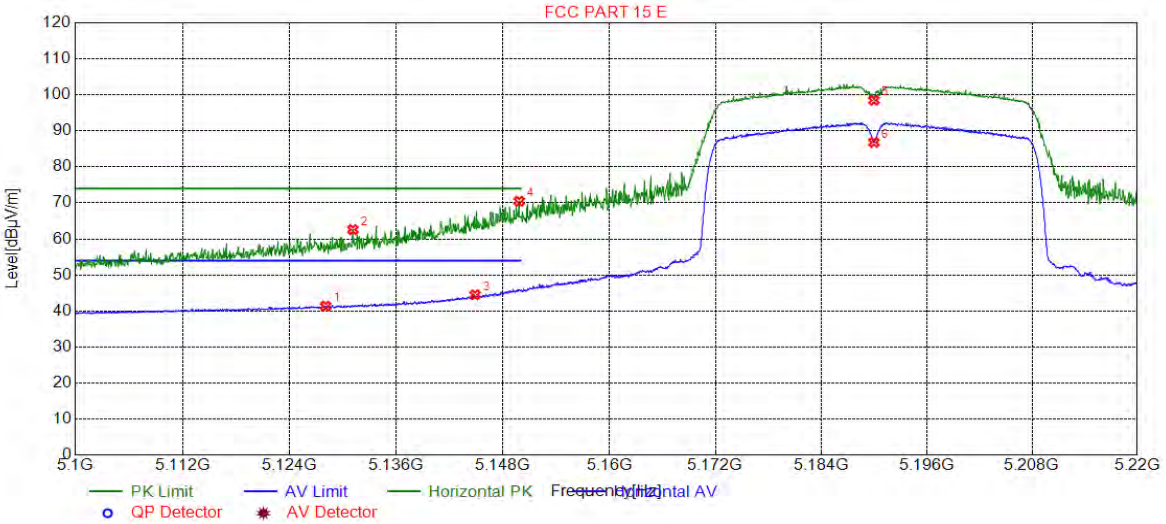
4.10.1.66 11AC40_38 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.03	41.36	15.33	54.00	12.64	173	21	Horizontal
2	5131.09	62.59	15.36	74.00	11.41	119	345	Horizontal
3	5144.84	44.50	15.48	54.00	9.50	118	21	Horizontal
4	5149.82	70.48	15.52	74.00	3.52	175	21	Horizontal
5	5190.00	98.48	15.58	0.00	-98.48	117	351	Horizontal
6	5190.00	86.79	15.58	0.00	-86.79	100	351	Horizontal

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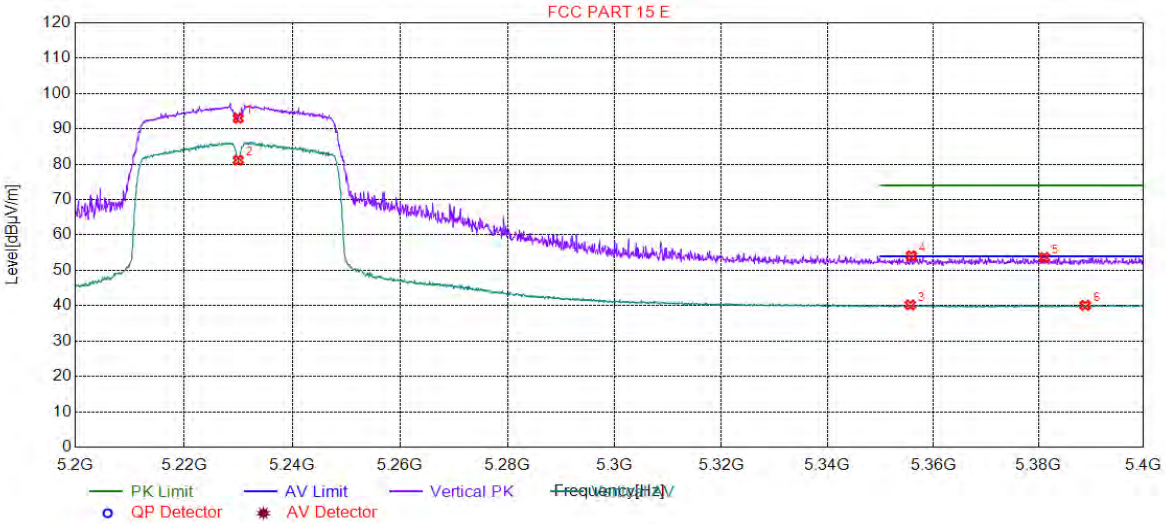
4.10.1.67 11AC40_46 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	92.98	15.51	0.00	-92.98	277	318	Vertical
2	5230.00	81.16	15.51	0.00	-81.16	269	275	Vertical
3	5355.67	40.21	15.98	54.00	13.79	202	242	Vertical
4	5355.87	54.11	15.98	74.00	19.89	278	118	Vertical
5	5381.09	53.63	16.13	74.00	20.37	206	345	Vertical
6	5388.89	40.11	16.18	54.00	13.89	273	275	Vertical

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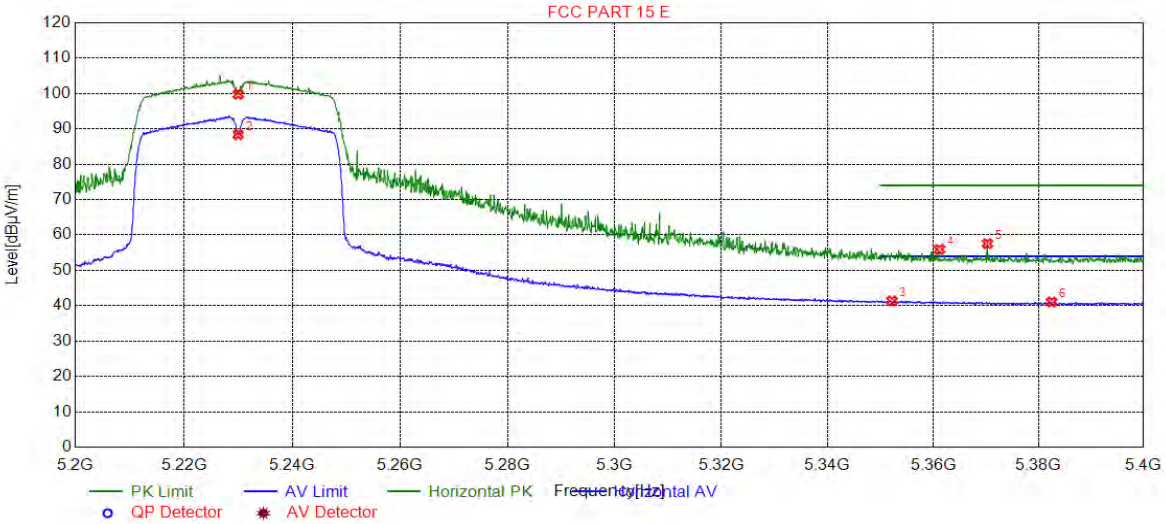
4.10.1.68 11AC40_46 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	99.77	15.51	0.00	-99.77	164	28	Horizontal
2	5230.00	88.38	15.51	0.00	-88.38	179	360	Horizontal
3	5352.17	41.36	15.95	54.00	12.64	224	357	Horizontal
4	5361.18	55.93	16.01	74.00	18.07	150	360	Horizontal
5	5370.28	57.56	16.07	74.00	16.44	115	28	Horizontal
6	5382.49	41.05	16.14	54.00	12.95	139	28	Horizontal

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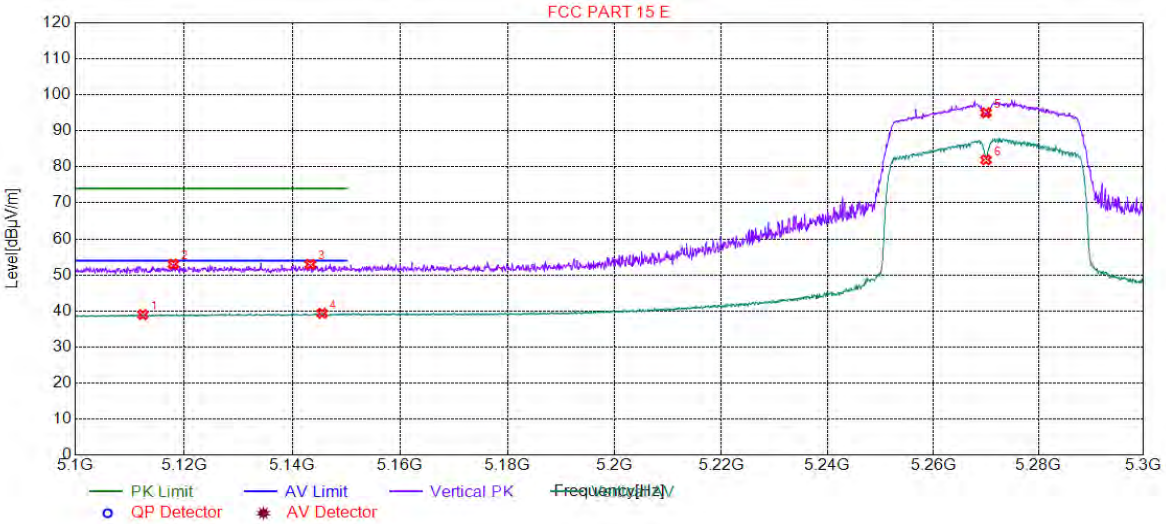
4.10.1.69 11AC40_54 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5112.40	39.00	15.20	54.00	15.00	241	272	Vertical
2	5118.00	53.00	15.24	74.00	21.00	154	240	Vertical
3	5143.32	52.93	15.46	74.00	21.07	253	22	Vertical
4	5145.52	39.35	15.48	54.00	14.65	245	10	Vertical
5	5270.00	95.02	15.56	0.00	-95.02	185	298	Vertical
6	5270.00	81.95	15.56	0.00	-81.95	173	281	Vertical

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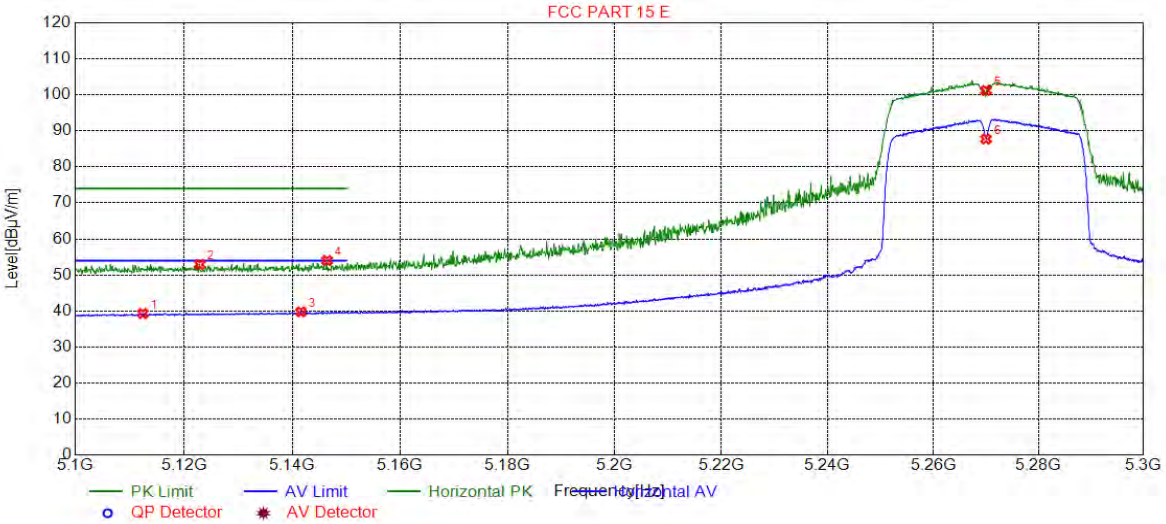
4.10.1.70 11AC40_54 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5112.40	39.29	15.20	54.00	14.71	168	348	Horizontal
2	5122.91	52.91	15.29	74.00	21.09	236	190	Horizontal
3	5141.62	39.77	15.45	54.00	14.23	130	360	Horizontal
4	5146.42	54.01	15.49	74.00	19.99	174	360	Horizontal
5	5270.00	101.22	15.56	0.00	-101.22	195	25	Horizontal
6	5270.00	87.73	15.56	0.00	-87.73	116	360	Horizontal

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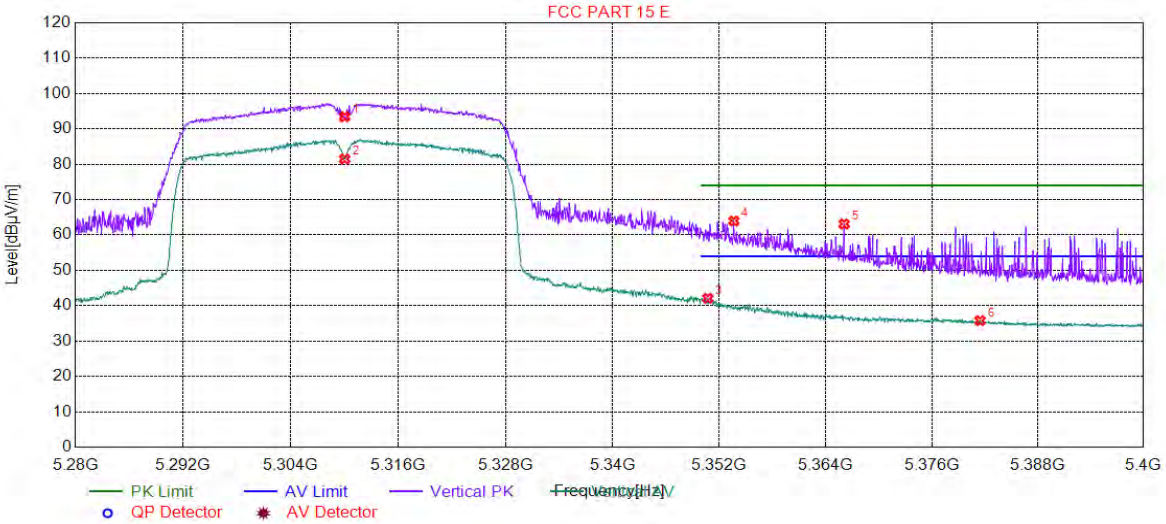
4.10.1.71 11AC40_62 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	93.44	15.75	0.00	-93.44	218	279	Vertical
2	5310.00	81.47	15.75	0.00	-81.47	224	285	Vertical
3	5350.71	42.09	15.94	54.00	11.91	278	279	Vertical
4	5353.65	63.95	15.96	74.00	10.05	182	285	Vertical
5	5366.08	63.10	16.04	74.00	10.90	250	285	Vertical
6	5381.45	35.78	16.13	54.00	18.22	228	320	Vertical

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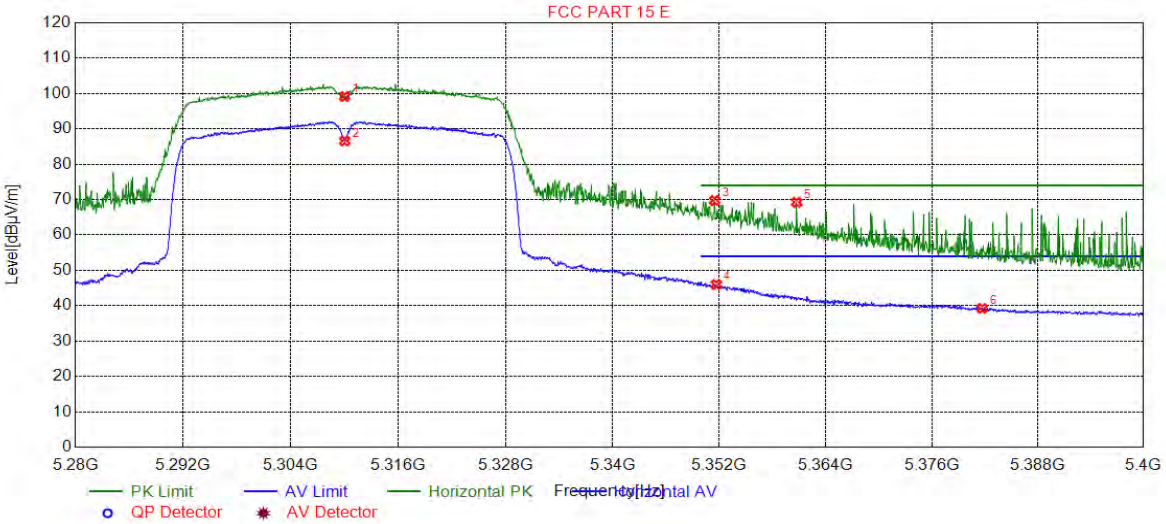
4.10.1.72 11AC40_62 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	99.14	15.75	0.00	-99.14	135	360	Horizontal
2	5310.00	86.61	15.75	0.00	-86.61	231	337	Horizontal
3	5351.49	69.74	15.95	74.00	4.26	144	337	Horizontal
4	5351.67	46.02	15.95	54.00	7.98	190	350	Horizontal
5	5360.74	69.23	16.01	74.00	4.77	220	360	Horizontal
6	5381.69	39.26	16.14	54.00	14.74	202	350	Horizontal

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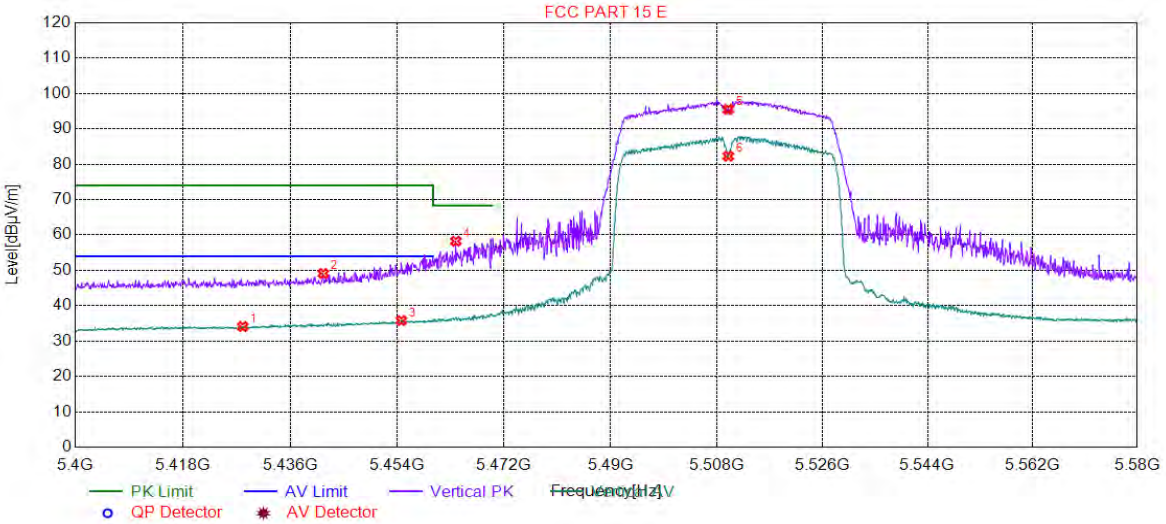
4.10.1.73 11AC40_102 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5428.00	34.11	16.25	54.00	19.89	263	310	Vertical
2	5441.51	49.12	16.25	74.00	24.88	287	276	Vertical
3	5454.65	35.80	16.25	54.00	18.20	155	310	Vertical
4	5463.84	58.25	16.25	68.30	10.05	222	276	Vertical
5	5510.00	95.52	16.28	0.00	-95.52	294	303	Vertical
6	5510.00	82.30	16.28	0.00	-82.30	295	303	Vertical

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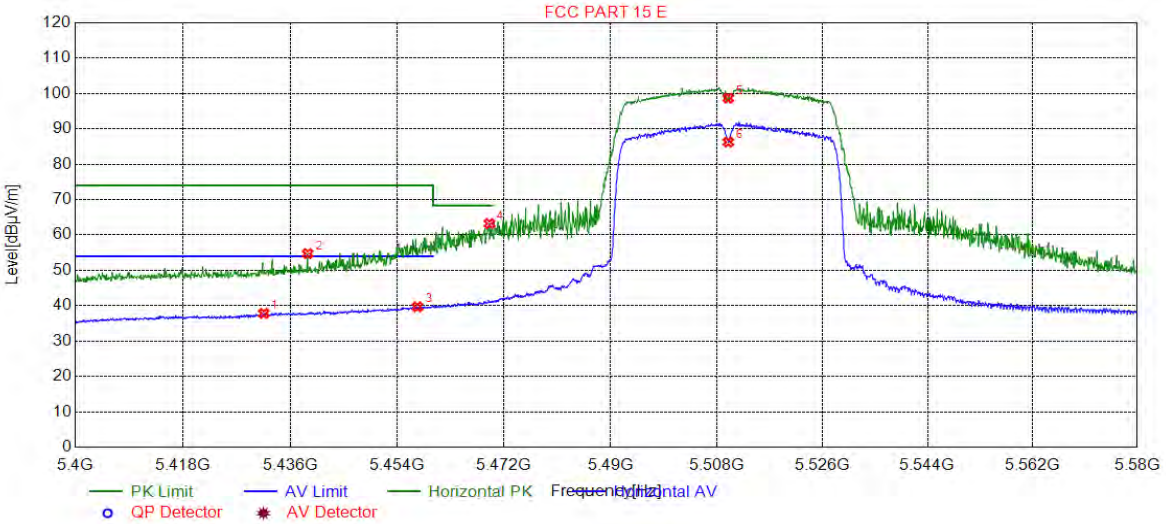
4.10.1.74 11AC40_102 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5431.51	37.82	16.25	54.00	16.18	169	336	Horizontal
2	5438.89	54.75	16.25	74.00	19.25	135	360	Horizontal
3	5457.35	39.69	16.25	54.00	14.31	211	336	Horizontal
4	5469.51	63.23	16.25	68.30	5.07	143	360	Horizontal
5	5510.00	98.68	16.28	0.00	-98.68	249	336	Horizontal
6	5510.00	86.26	16.28	0.00	-86.26	195	264	Horizontal

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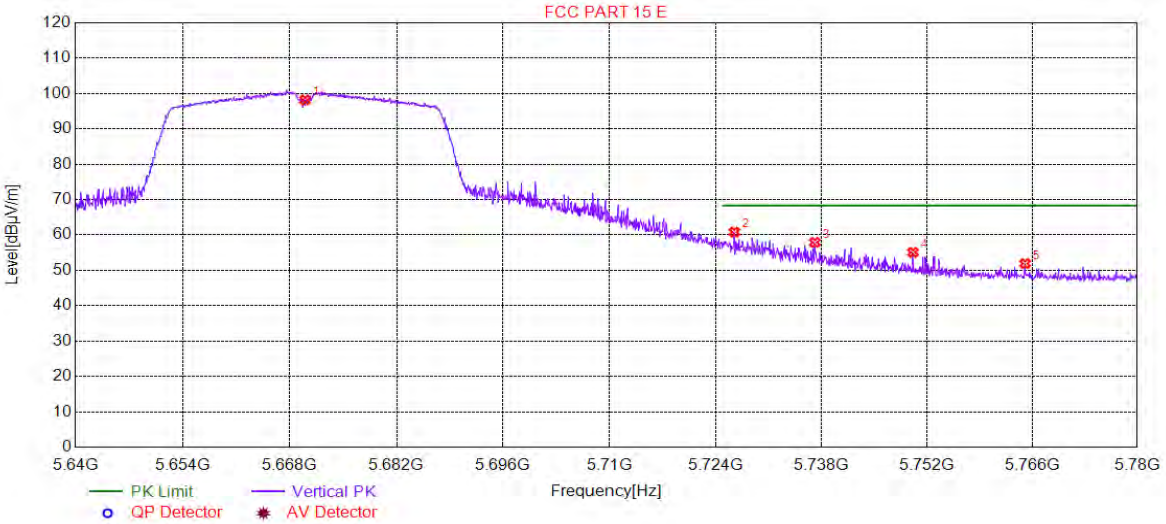
4.10.1.75 11AC40_134 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	98.18	16.64	0.00	-98.18	229	326	Vertical
2	5726.49	60.83	16.97	68.30	7.47	183	356	Vertical
3	5737.13	57.92	17.04	68.30	10.38	279	286	Vertical
4	5750.16	55.08	17.12	68.30	13.22	179	175	Vertical
5	5765.08	51.93	17.14	68.30	16.37	215	296	Vertical

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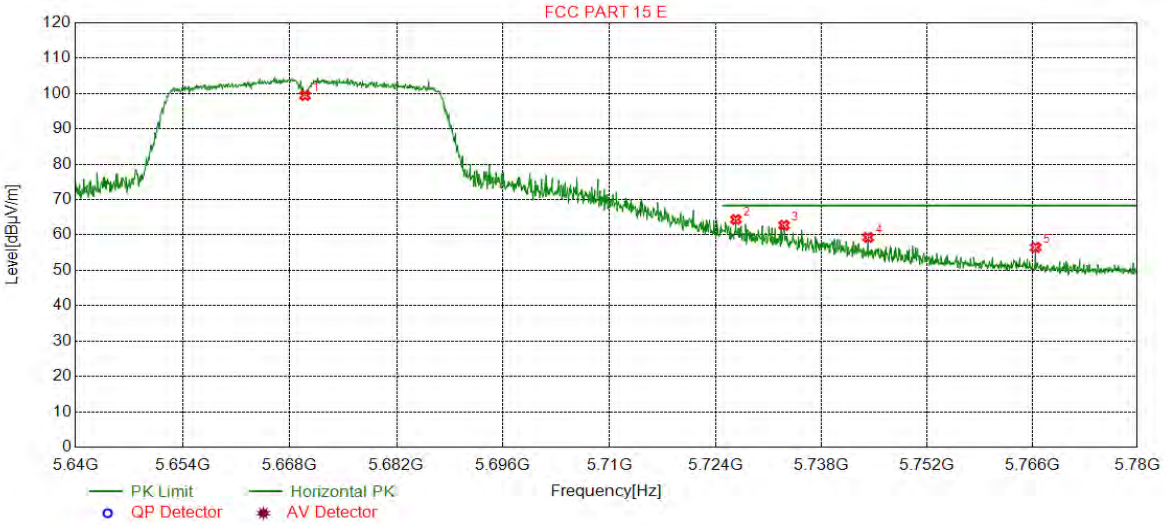
4.10.1.76 11AC40_134 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	99.42	16.64	0.00	-99.42	116	344	Horizontal
2	5726.70	64.37	16.97	68.30	3.93	180	226	Horizontal
3	5733.07	62.75	17.01	68.30	5.55	173	226	Horizontal
4	5744.21	59.33	17.08	68.30	8.97	177	226	Horizontal
5	5766.48	56.51	17.14	68.30	11.79	173	226	Horizontal

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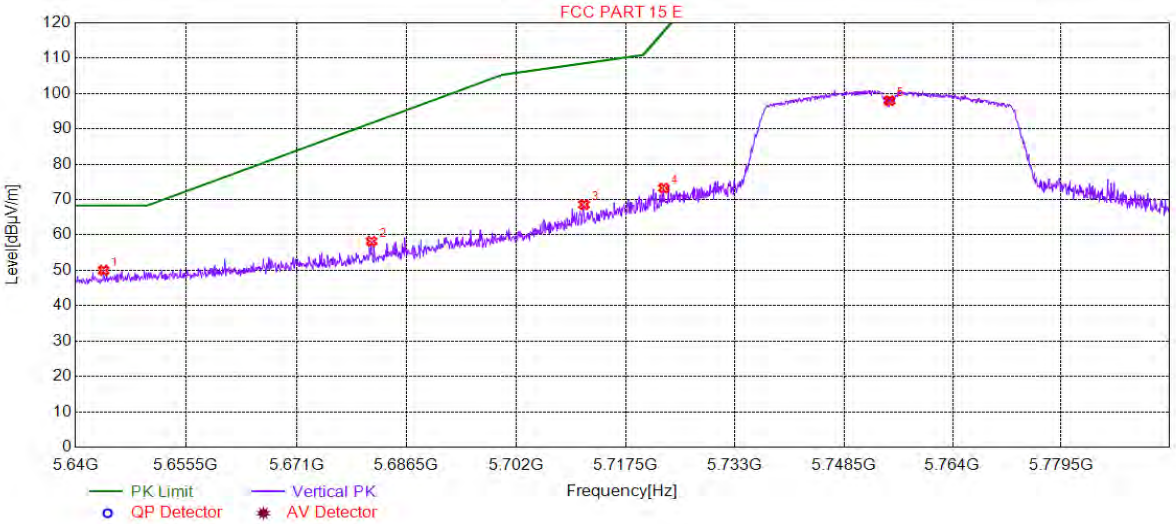
4.10.1.77 11AC40_151 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.95	50.01	16.54	68.30	18.29	248	346	Vertical
2	5681.56	58.24	16.70	91.65	33.41	178	164	Vertical
3	5711.56	68.59	16.87	108.54	39.95	246	172	Vertical
4	5722.88	73.25	16.95	117.49	44.24	259	164	Vertical
5	5755.00	97.96	17.13	0.00	-97.96	240	334	Vertical

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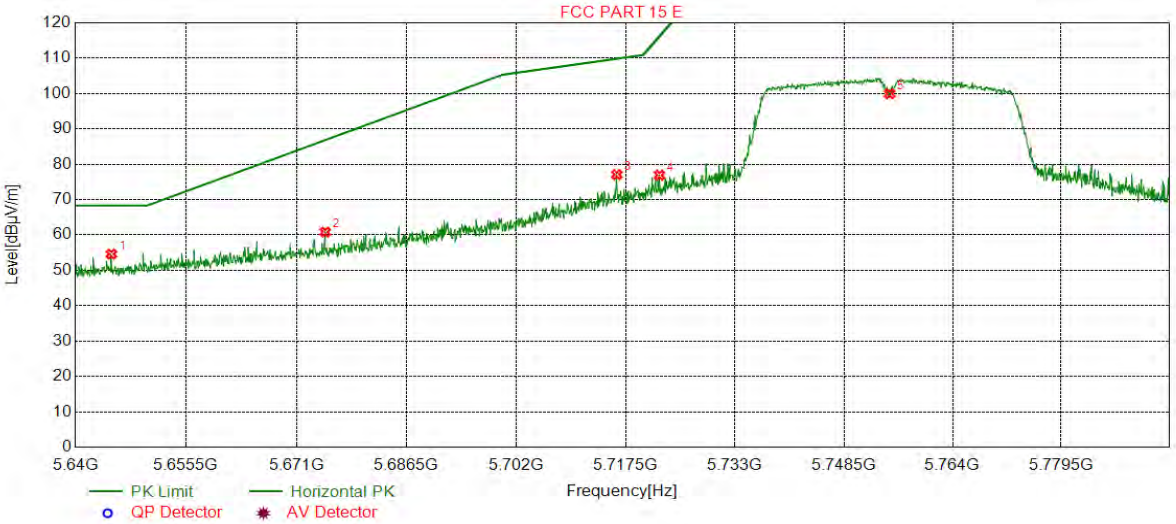
4.10.1.78 11AC40_151 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.04	54.59	16.54	68.30	13.71	119	226	Horizontal
2	5675.04	60.84	16.67	86.84	26.00	146	226	Horizontal
3	5716.22	77.06	16.90	109.84	32.78	209	235	Horizontal
4	5722.26	76.91	16.94	116.07	39.16	198	235	Horizontal
5	5755.00	99.93	17.13	0.00	-99.93	104	214	Horizontal

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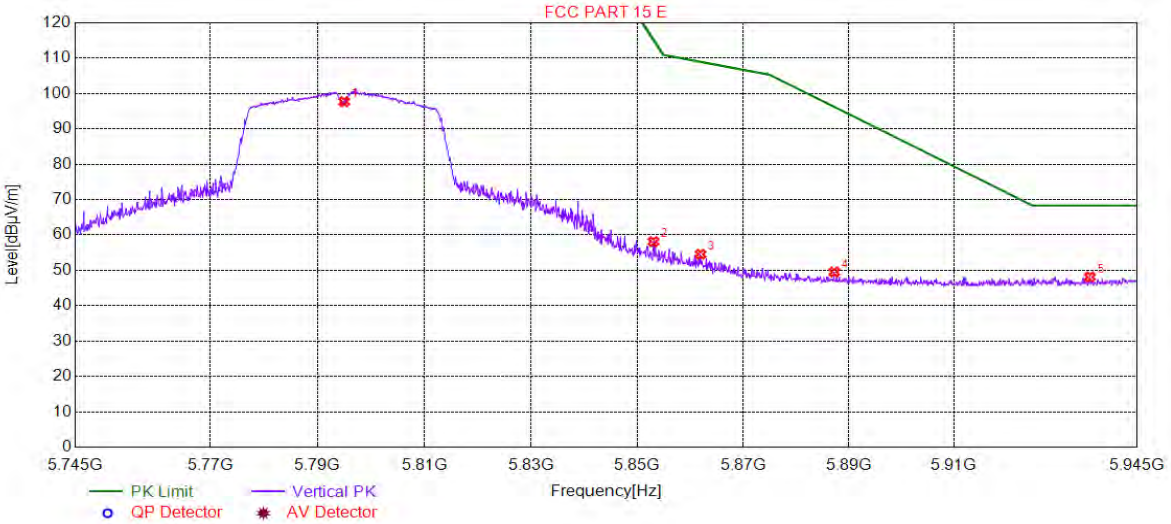
4.10.1.79 11AC40_159 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	97.69	17.18	0.00	-97.69	238	304	Vertical
2	5853.05	58.13	17.25	115.34	57.21	277	130	Vertical
3	5861.95	54.54	17.22	108.95	54.41	227	182	Vertical
4	5887.27	49.53	17.15	96.22	46.69	208	304	Vertical
5	5935.99	48.14	17.66	68.30	20.16	159	134	Vertical

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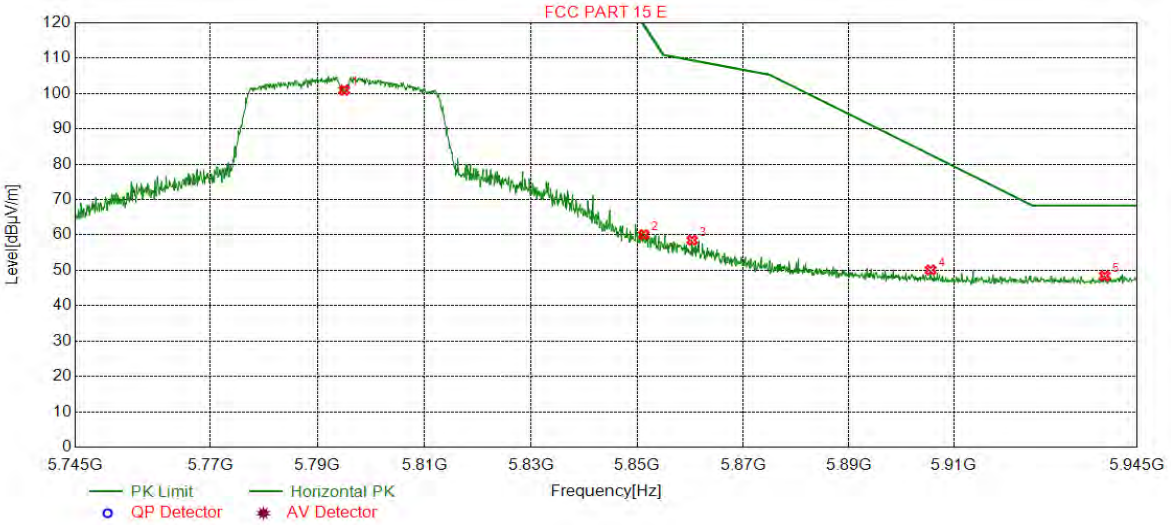
4.10.1.80 11AC40_159 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	100.96	17.18	0.00	-100.96	177	232	Horizontal
2	5851.25	60.09	17.26	119.44	59.35	112	213	Horizontal
3	5860.35	58.51	17.23	109.40	50.89	132	232	Horizontal
4	5905.58	50.10	17.20	82.67	32.57	205	226	Horizontal
5	5938.79	48.41	17.71	68.30	19.89	106	226	Horizontal

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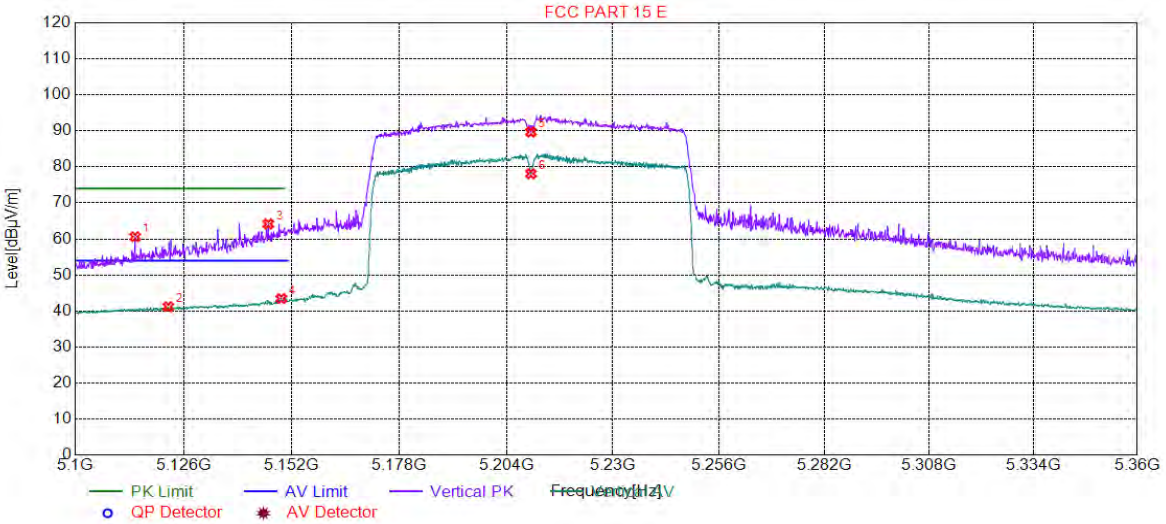
4.10.1.81 11AC80_42 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5114.30	60.60	15.21	74.00	13.40	246	321	Vertical
2	5122.24	41.17	15.28	54.00	12.83	179	330	Vertical
3	5146.30	64.17	15.49	74.00	9.83	199	330	Vertical
4	5149.42	43.43	15.52	54.00	10.57	233	321	Vertical
5	5210.00	89.66	15.56	0.00	-89.66	263	330	Vertical
6	5210.00	78.10	15.56	0.00	-78.10	278	292	Vertical

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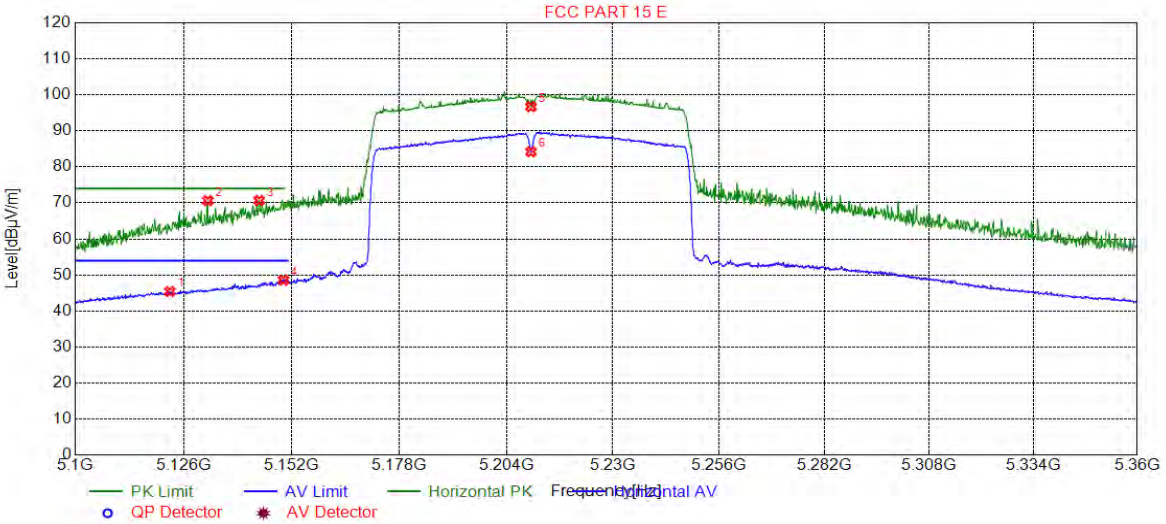
4.10.1.82 11AC80_42 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.63	45.40	15.28	54.00	8.60	187	0	Horizontal
2	5131.73	70.61	15.36	74.00	3.39	178	0	Horizontal
3	5144.09	70.66	15.47	74.00	3.34	145	332	Horizontal
4	5149.94	48.58	15.52	54.00	5.42	167	0	Horizontal
5	5210.00	96.70	15.56	0.00	-96.70	216	0	Horizontal
6	5210.00	84.20	15.56	0.00	-84.20	222	0	Horizontal

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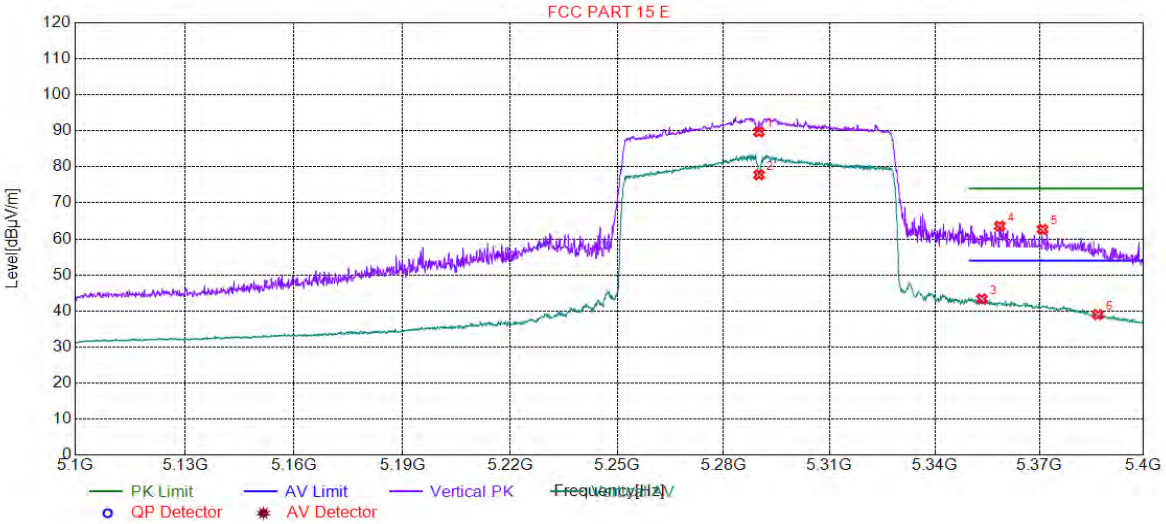
4.10.1.83 11AC80_58 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	89.68	15.65	0.00	-89.68	292	293	Vertical
2	5290.00	77.81	15.65	0.00	-77.81	249	293	Vertical
3	5353.47	43.34	15.96	54.00	10.66	203	293	Vertical
4	5358.57	63.56	15.99	74.00	10.44	203	293	Vertical
5	5370.88	62.65	16.07	74.00	11.35	170	293	Vertical
6	5386.79	39.00	16.17	54.00	15.00	189	293	Vertical

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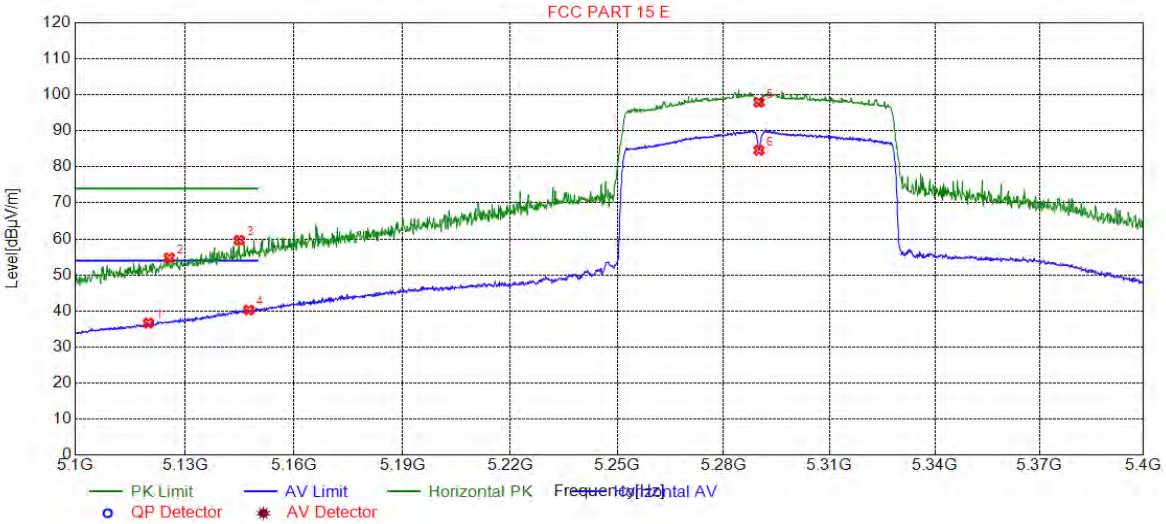
4.10.1.84 11AC80_58 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5119.96	36.67	15.26	54.00	17.33	150	4	Horizontal
2	5125.66	54.73	15.31	74.00	19.27	246	303	Horizontal
3	5144.87	59.67	15.48	74.00	14.33	221	4	Horizontal
4	5147.57	40.26	15.50	54.00	13.74	208	1	Horizontal
5	5290.00	97.91	15.65	0.00	-97.91	238	339	Horizontal
6	5290.00	84.62	15.65	0.00	-84.62	145	339	Horizontal

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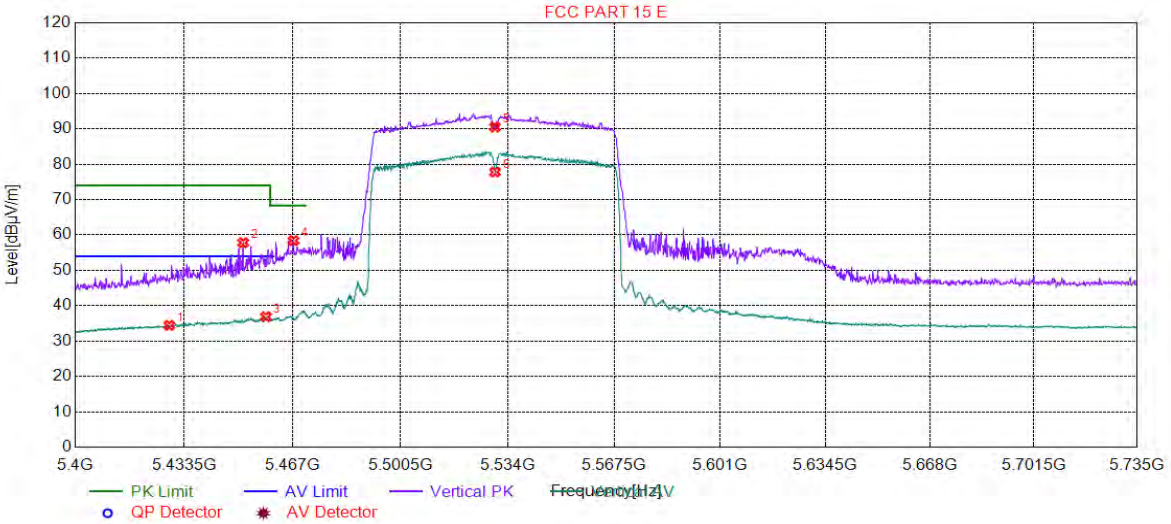
4.10.1.85 11AC80_106 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5428.82	34.45	16.25	54.00	19.55	248	318	Vertical
2	5451.61	57.80	16.25	74.00	16.20	293	255	Vertical
3	5458.65	36.89	16.25	54.00	17.11	164	303	Vertical
4	5467.20	58.40	16.25	68.30	9.90	224	255	Vertical
5	5530.00	90.53	16.35	0.00	-90.53	273	147	Vertical
6	5530.00	77.80	16.35	0.00	-77.80	275	276	Vertical

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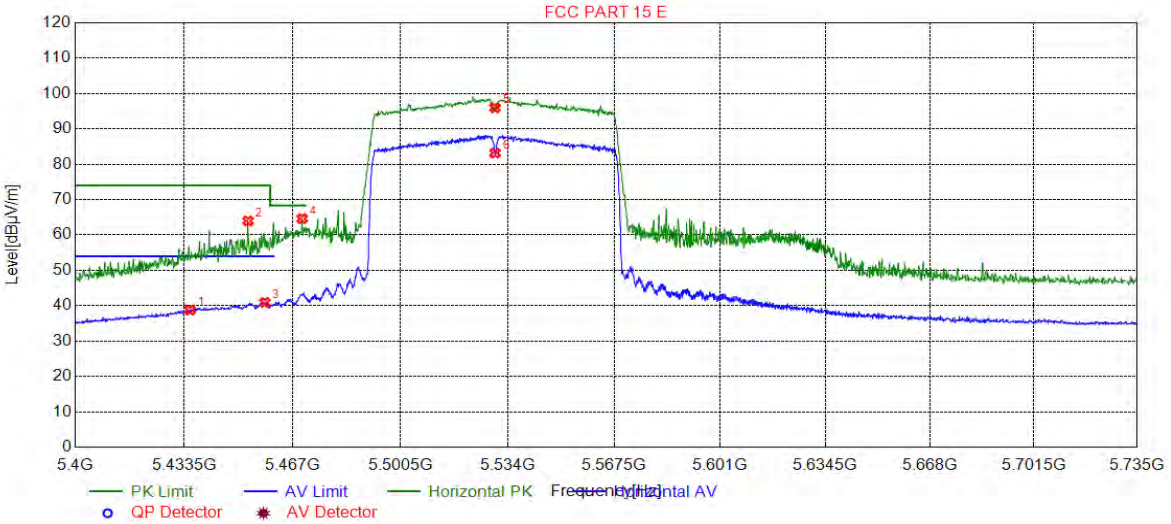
4.10.1.86 11AC80_106 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5435.19	38.78	16.25	54.00	15.22	212	360	Horizontal
2	5453.12	63.97	16.25	74.00	10.03	188	33	Horizontal
3	5458.31	40.92	16.25	54.00	13.08	102	247	Horizontal
4	5469.88	64.64	16.25	68.30	3.66	142	247	Horizontal
5	5530.00	95.98	16.35	0.00	-95.98	245	359	Horizontal
6	5530.00	83.16	16.35	0.00	-83.16	248	247	Horizontal

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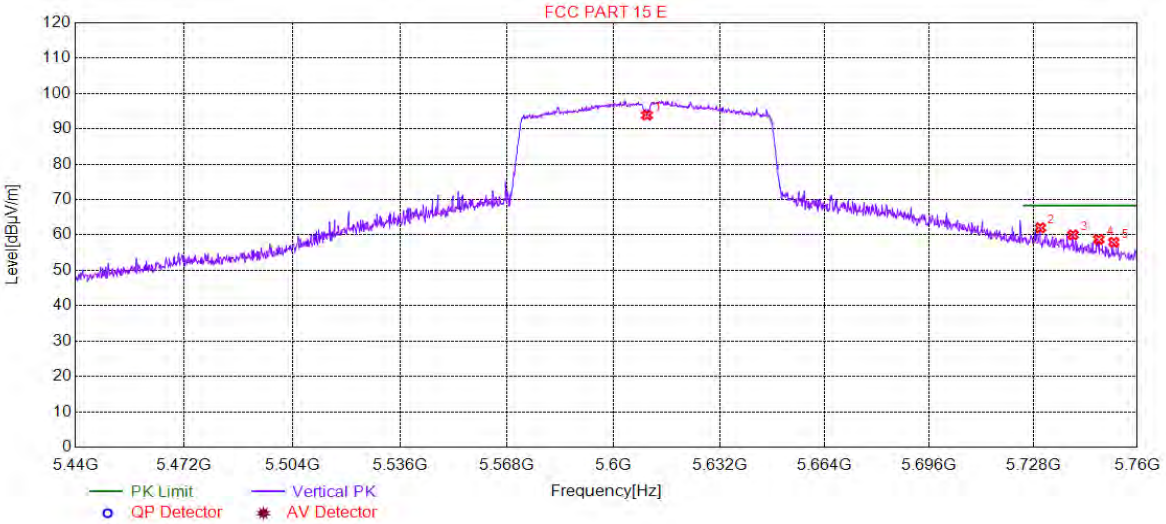
4.10.1.87 11AC80_122 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	93.88	16.58	0.00	-93.88	241	303	Vertical
2	5730.06	62.02	16.99	68.30	6.28	209	268	Vertical
3	5740.15	60.05	17.06	68.30	8.25	258	291	Vertical
4	5748.15	58.76	17.11	68.30	9.54	252	319	Vertical
5	5752.79	57.96	17.12	68.30	10.34	190	325	Vertical

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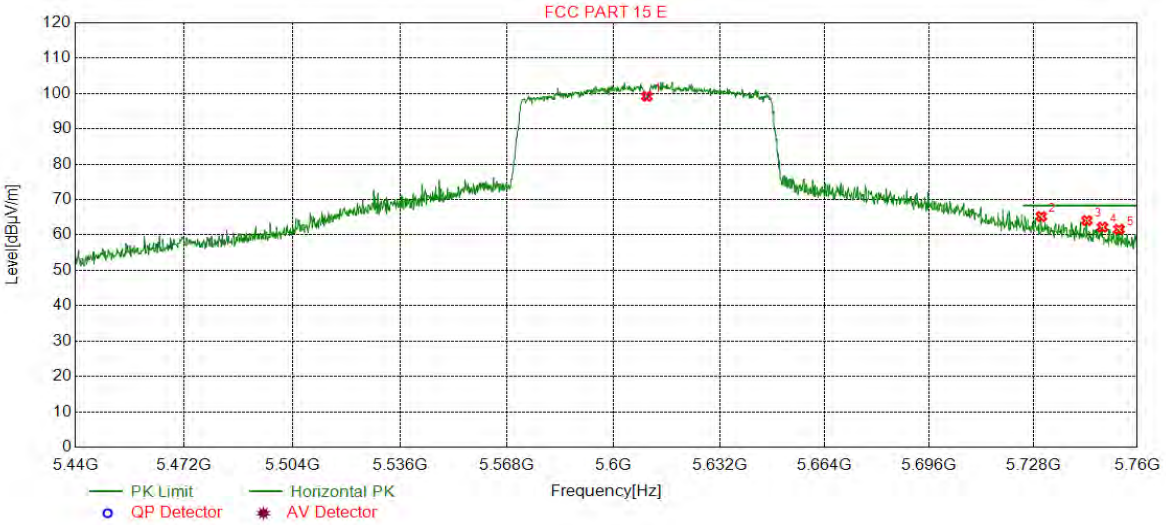
4.10.1.88 11AC80_122 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	99.19	16.58	0.00	-99.19	212	357	Horizontal
2	5730.38	65.23	16.99	68.30	3.07	115	246	Horizontal
3	5744.47	64.10	17.08	68.30	4.20	120	246	Horizontal
4	5749.27	62.20	17.12	68.30	6.10	242	246	Horizontal
5	5754.39	61.60	17.13	68.30	6.70	198	353	Horizontal

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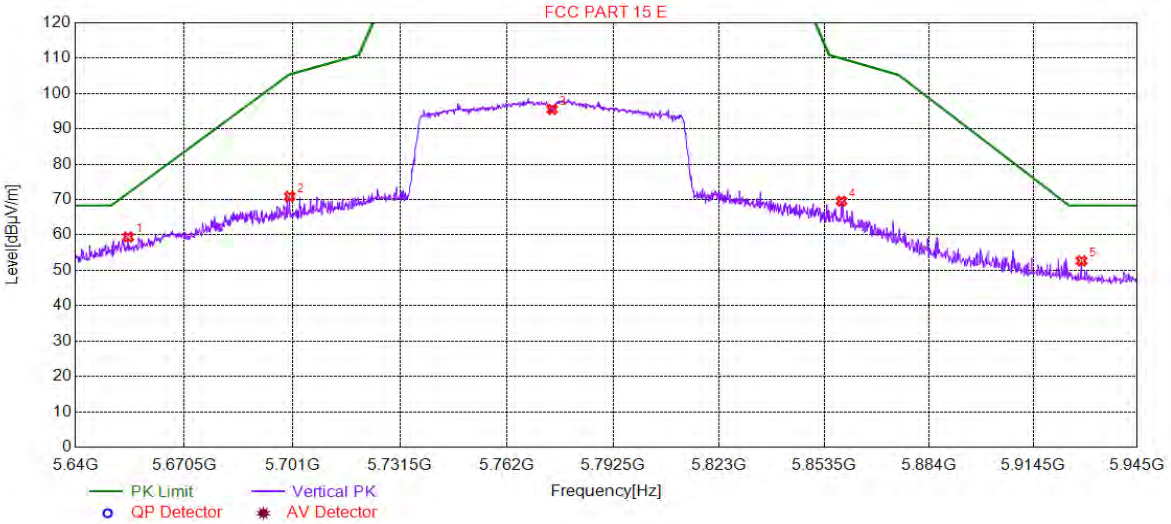
4.10.1.89 11AC80_155 ANT 1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5654.79	59.45	16.56	71.85	12.40	238	142	Vertical
2	5700.26	70.87	16.80	105.37	34.50	222	288	Vertical
3	5775.00	95.52	17.16	122.30	26.78	265	288	Vertical
4	5858.48	69.58	17.23	109.92	40.34	228	288	Vertical
5	5928.67	52.71	17.55	68.30	15.59	232	142	Vertical

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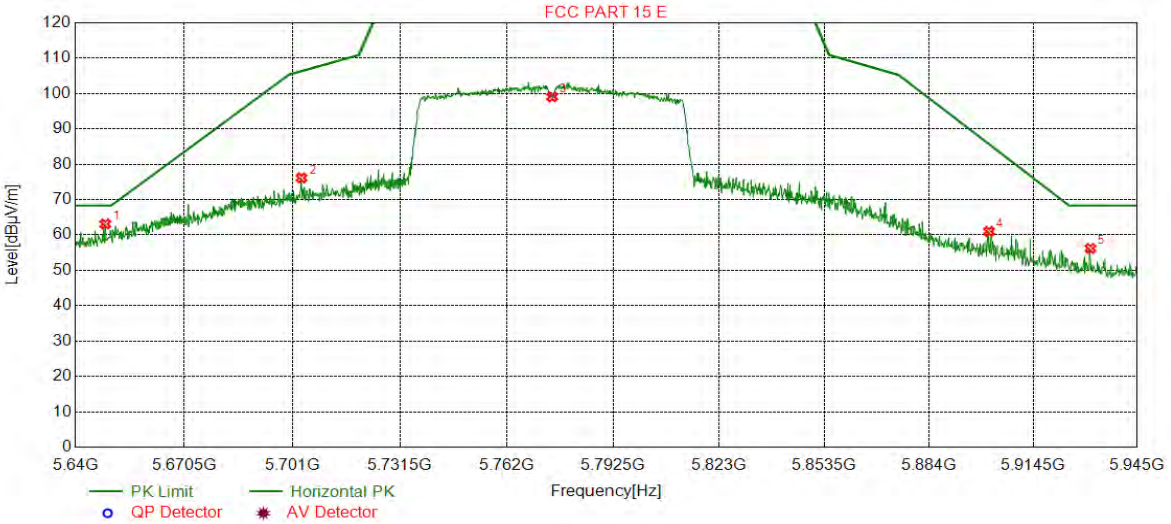
4.10.1.90 11AC80_155 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5648.39	63.11	16.53	68.30	5.19	171	230	Horizontal
2	5703.62	76.16	16.82	106.31	30.15	105	230	Horizontal
3	5775.00	99.06	17.16	122.30	23.24	221	238	Horizontal
4	5901.51	61.00	17.13	85.68	24.68	174	311	Horizontal
5	5931.26	56.20	17.59	68.30	12.10	142	311	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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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.004921	5825.007955
V max(V)	5180.012435	5825.008787
V min(V)	5180.009081	5825.006371
Max. Deviation Frequency	0.012435	0.008787
Max. Frequency Error (ppm)	2.400579	2.542415

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.006314	5825.009856
5	5180.007724	5825.002400
15	5180.007733	5825.010334
25	5180.012751	5825.015275
35	5180.015567	5825.017038
45	5180.012259	5825.002795
50	5180.012918	5824.998131
Max. Deviation Frequency	0.015567	0.017038
Max. Frequency Error (ppm)	3.005212	2.924979

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4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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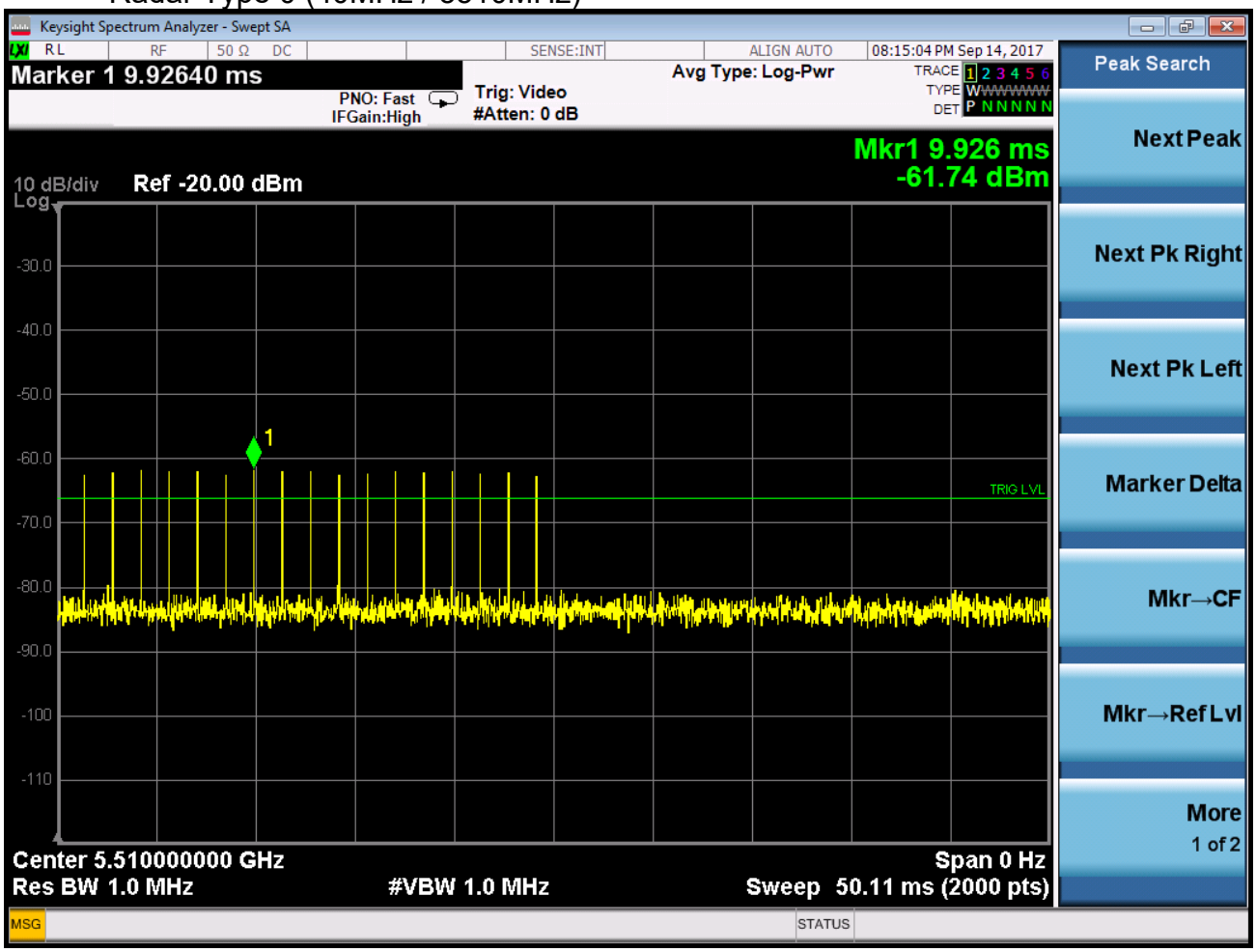
4.12.4 Test plots

Remark: Only the data of Ant.1 is recorded.

4.12.4.1 Radar Waveform Calibration Result

Radar Type 0 (40MHz / 5510MHz)



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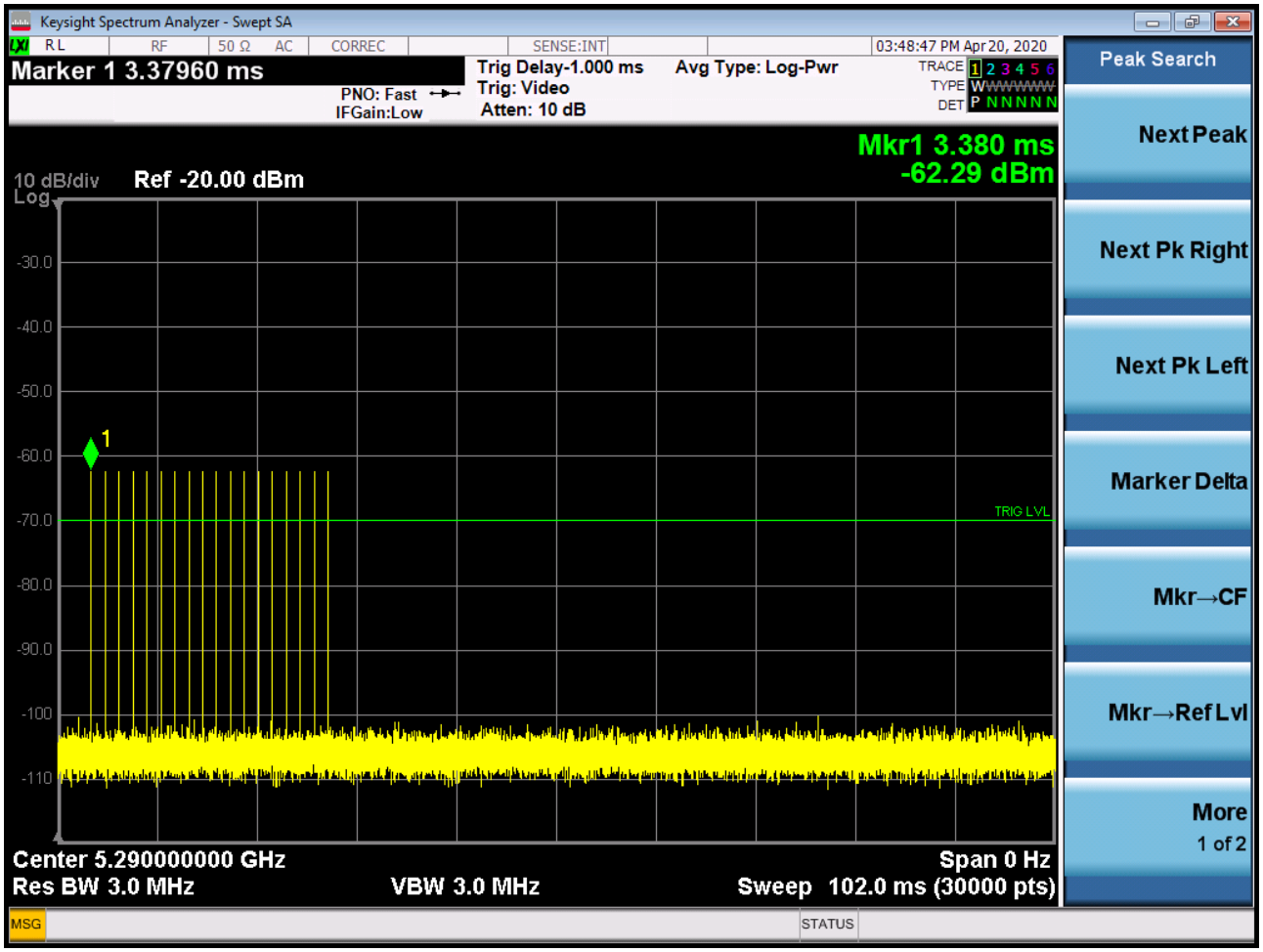
4.12.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
40MHz / 5290MHz	Channel Move Time	0.08s	＜10s	Pass
	Channel Closing Transmission Time	3.38ms	＜60ms	Pass

4.12.5.1 Test plots

4.12.5.1.1 Test Bandwidth/Channel= 40MHz / 5290MHz



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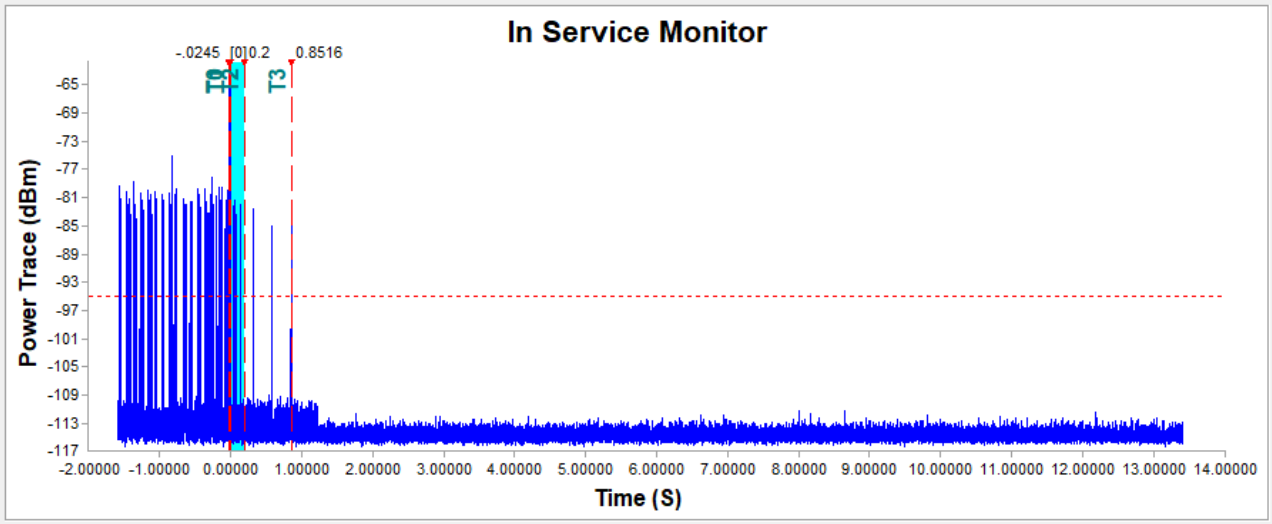

Time Index Info

T0 : -0.0245 S (Radar Injection Start)
T1 : 0.0000 S (Radar Injection Stop)
T2 : 0.2000 S (200msec Interval)
T3 : 0.8516 S (Channel Move Time)

Time Per Bin:0.50005 ms

T2~T3 Bins Over Threshold: = 4 Bins

Channel Move Time: 0.8585852 S

Channel Close Time: 0.0028502 S

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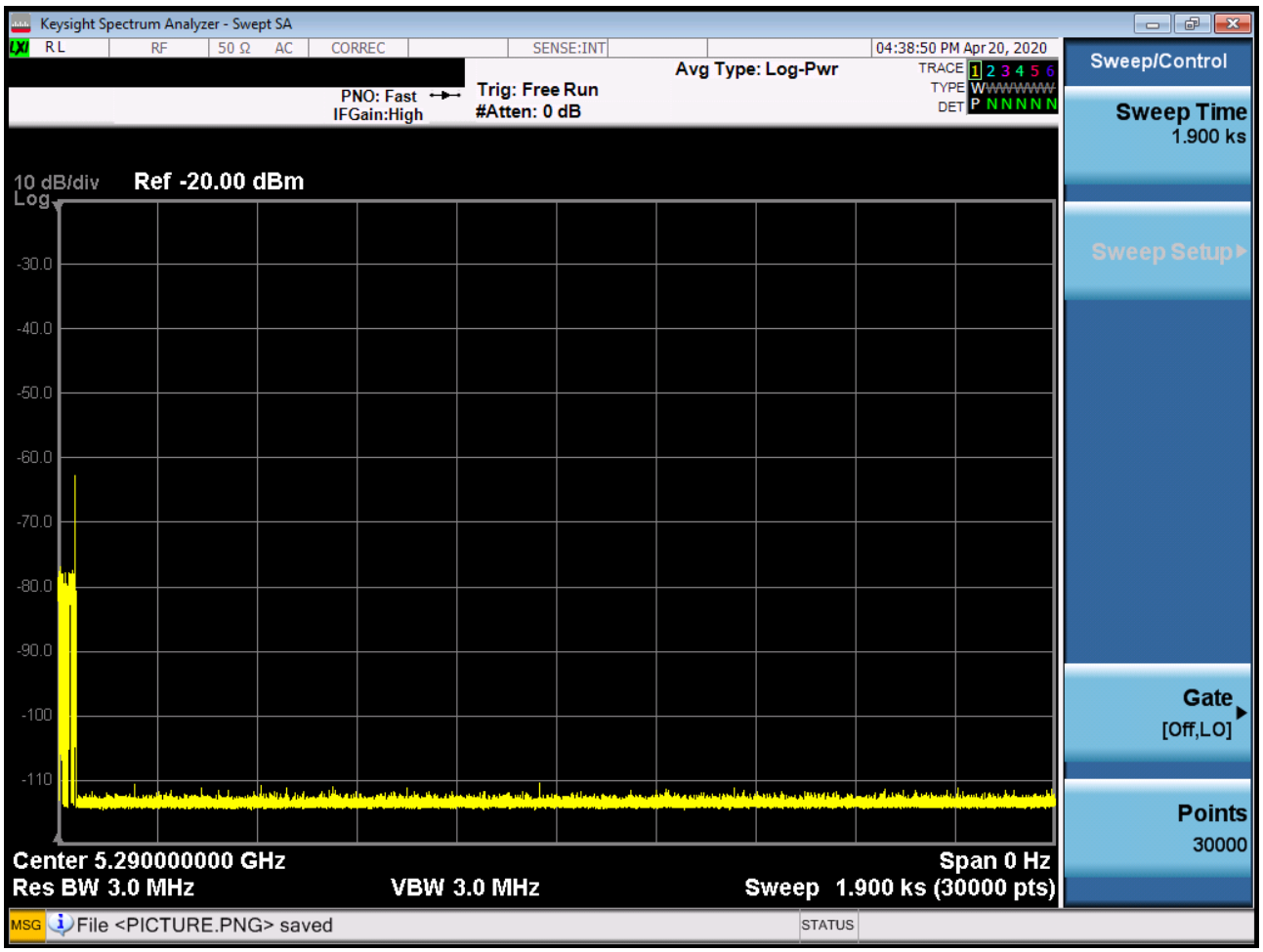

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5 Measurement Uncertainty (95% confidence levels, k=2)

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

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
Master Device	Linksy pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

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

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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
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2019-06-28	2020-06-27
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 Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/202040003

The End

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