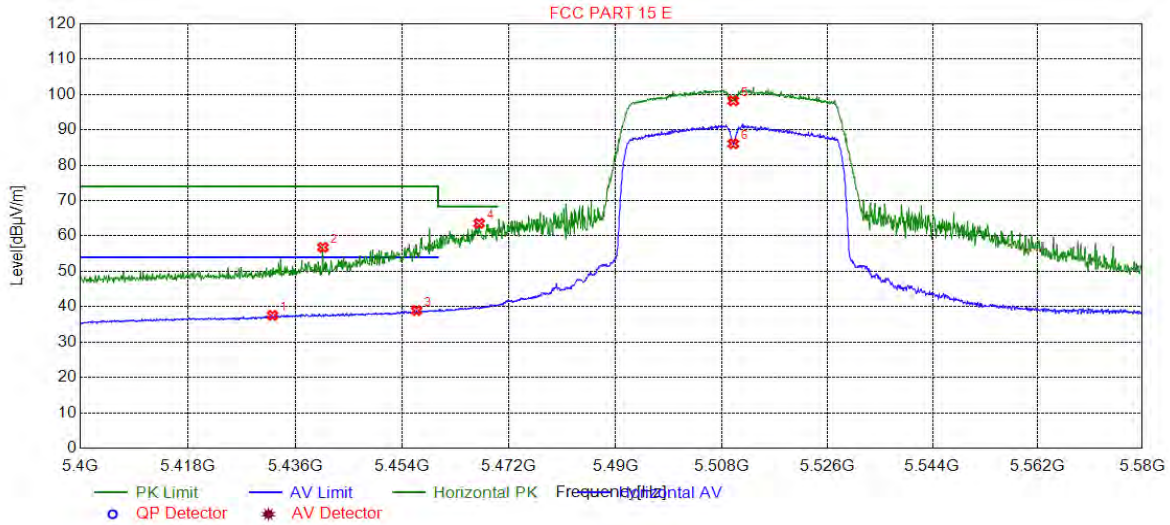


**4.10.1.42 11N40\_102 ANT 1\_ Horizontal**

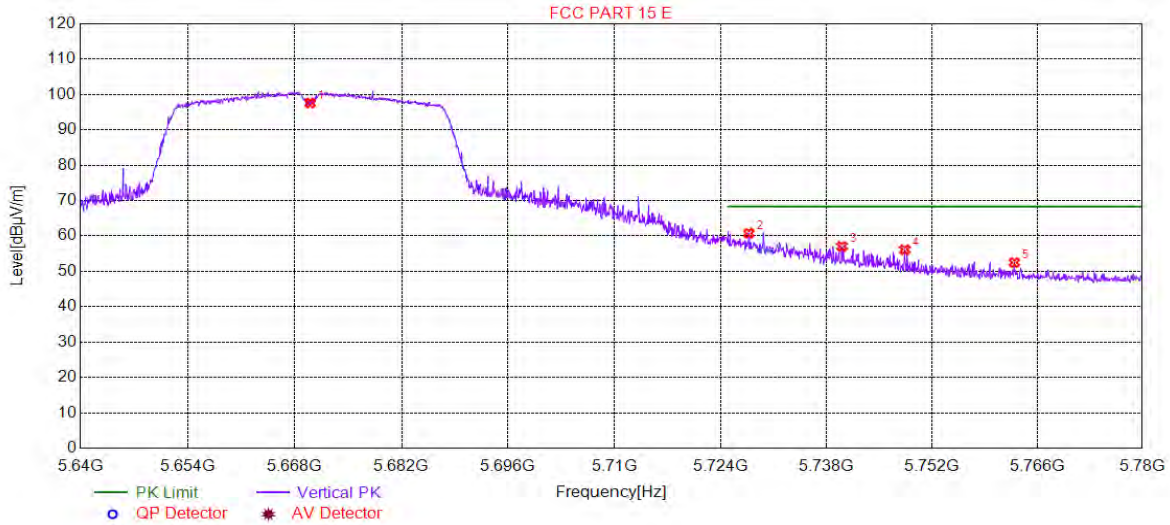


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5432.14	37.56	16.25	54.00	16.44	150	0	Horizontal
2	5440.61	56.80	16.25	74.00	17.20	150	332	Horizontal
3	5456.36	38.90	16.25	54.00	15.10	150	332	Horizontal
4	5466.90	63.56	16.25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



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**4.10.1.43 11N40\_134 ANT 1\_Vertical**



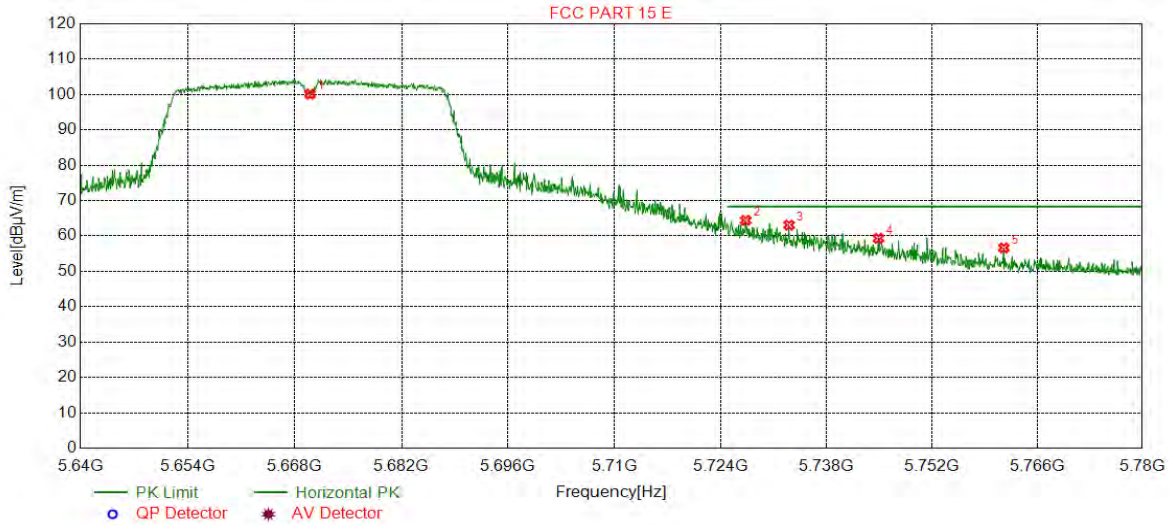
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	97.59	16.64	0.00	-97.59	150	291	Vertical
2	5727.75	60.77	16.98	68.30	7.53	150	291	Vertical
3	5740.08	57.06	17.06	68.30	11.24	150	284	Vertical
4	5748.41	56.13	17.11	68.30	12.17	150	157	Vertical
5	5762.98	52.49	17.14	68.30	15.81	150	122	Vertical



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**4.10.1.44 11N40\_134 ANT 1\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	100.09	16.64	0.00	-100.09	150	332	Horizontal
2	5727.33	64.43	16.97	68.30	3.87	150	193	Horizontal
3	5733.07	63.08	17.01	68.30	5.22	150	332	Horizontal
4	5744.91	59.33	17.09	68.30	8.97	150	226	Horizontal
5	5761.58	56.64	17.14	68.30	11.66	150	219	Horizontal

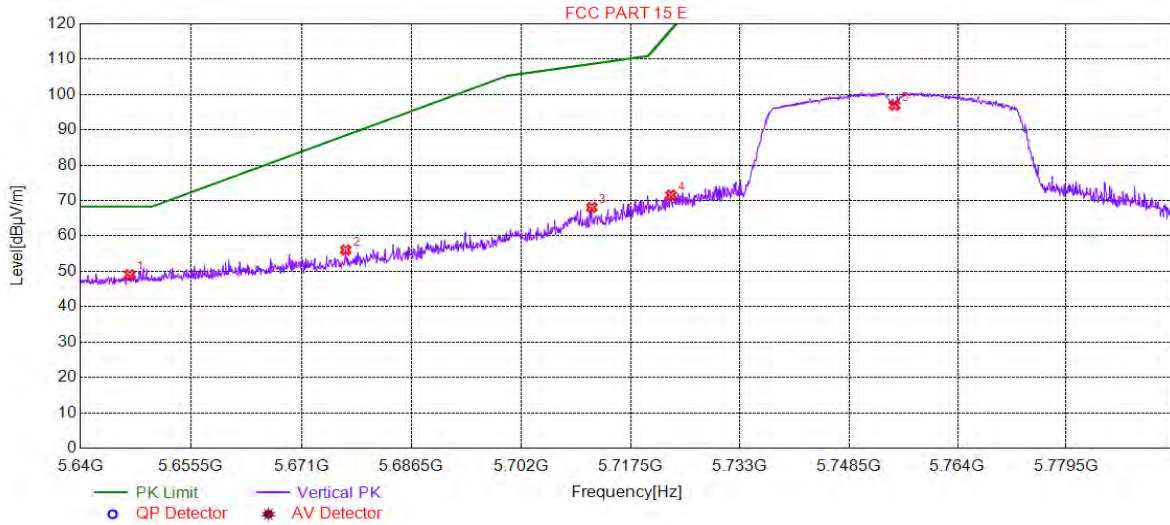


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**4.10.1.45 11N40\_151 ANT 1\_Vertical**

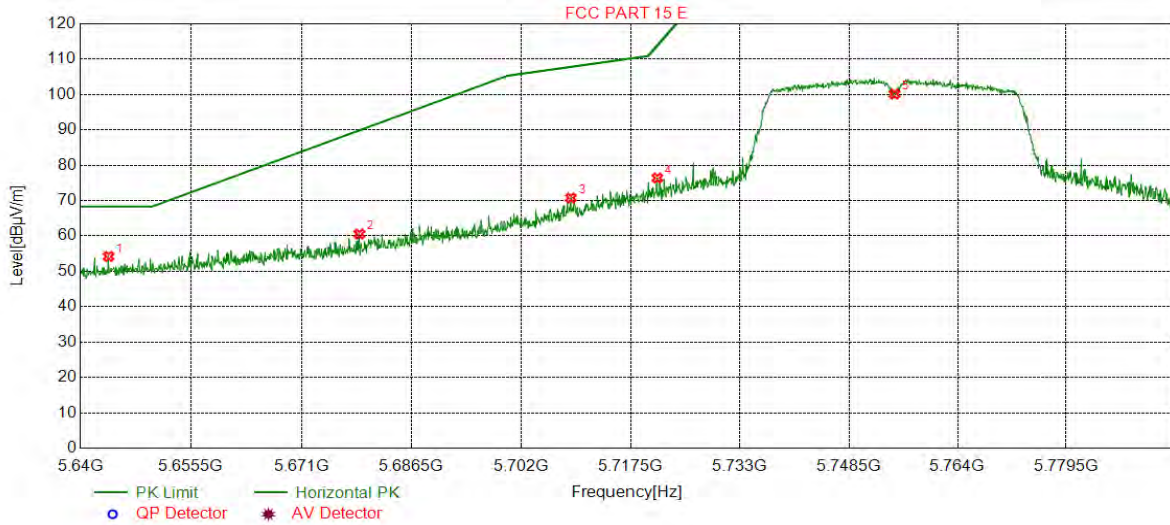


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.90	49.02	16.53	68.30	19.28	150	265	Vertical
2	5677.21	56.07	16.68	88.44	32.37	150	154	Vertical
3	5711.95	68.10	16.88	108.65	40.55	150	170	Vertical
4	5723.19	71.57	16.95	118.19	46.62	150	337	Vertical
5	5755.00	96.92	17.13	0.00	-96.92	150	293	Vertical



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**4.10.1.46 11N40\_151 ANT 1\_ Horizontal**

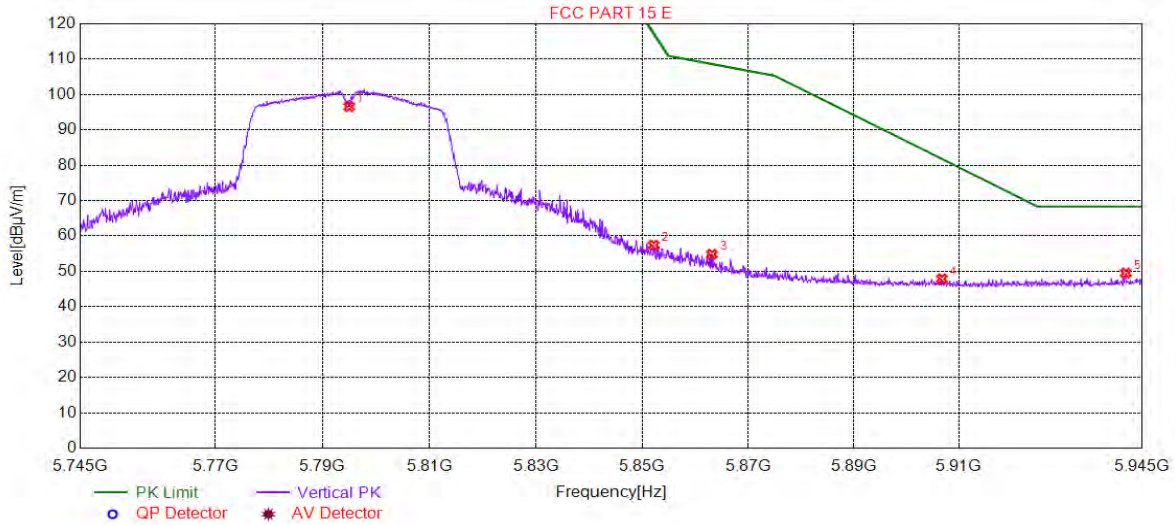


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.95	54.22	16.54	68.30	14.08	150	220	Horizontal
2	5679.15	60.55	16.69	89.88	29.33	150	220	Horizontal
3	5709.00	70.75	16.86	107.82	37.07	150	220	Horizontal
4	5721.26	76.40	16.94	113.77	37.37	150	220	Horizontal
5	5755.00	100.09	17.13	0.00	-100.09	150	220	Horizontal



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**4.10.1.47 11N40\_159 ANT 1\_Vertical**



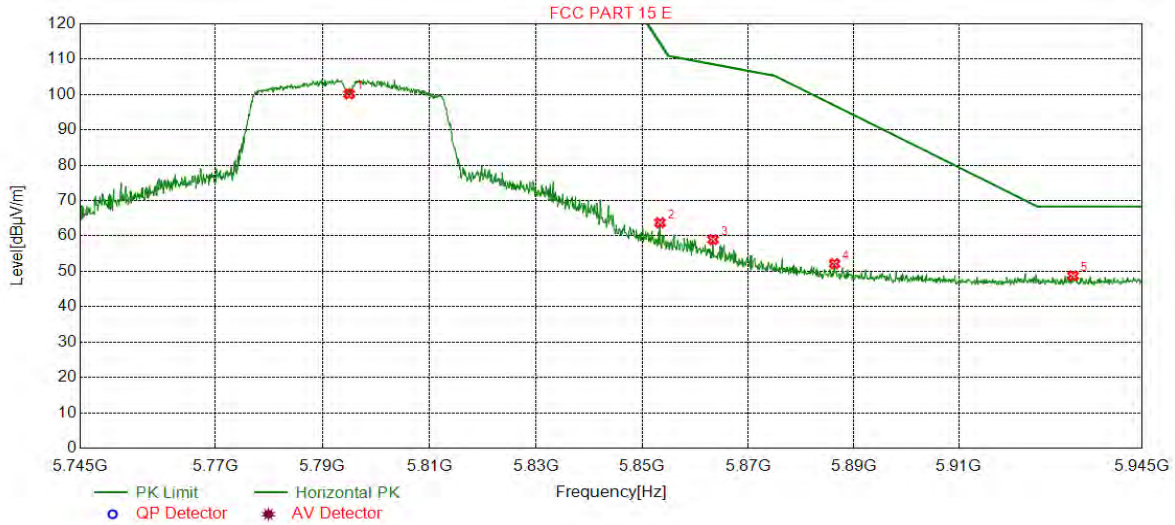
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	96.57	17.18	0.00	-96.57	150	290	Vertical
2	5852.15	57.41	17.25	117.39	59.98	150	149	Vertical
3	5863.15	54.81	17.22	108.62	53.81	150	132	Vertical
4	5906.78	47.88	17.21	81.78	33.90	150	136	Vertical
5	5941.89	49.50	17.76	68.30	18.80	150	322	Vertical



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**4.10.1.48 11N40\_159 ANT 1\_ Horizontal**

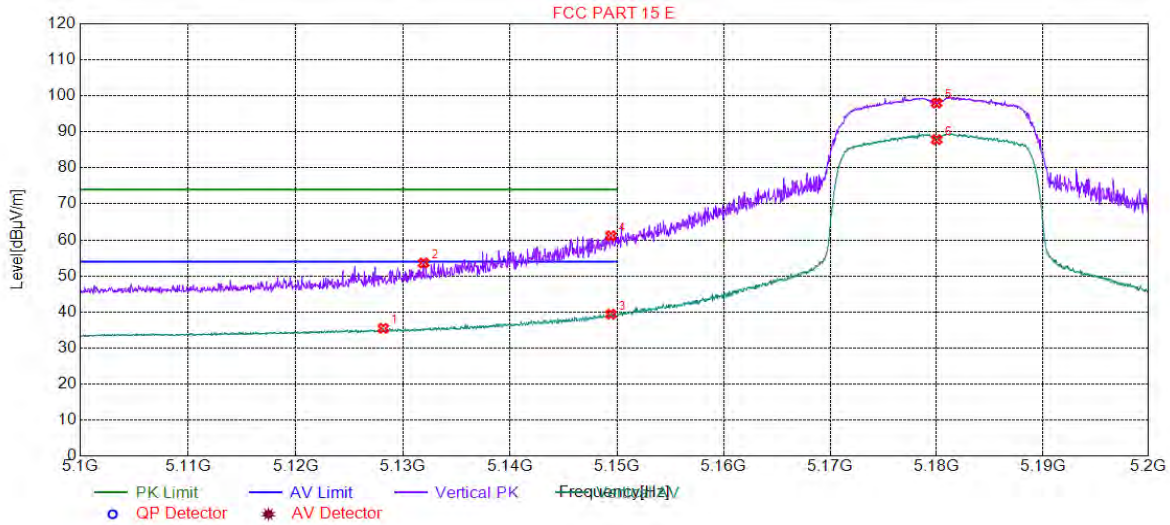


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	100.16	17.18	0.00	-100.16	150	230	Horizontal
2	5853.35	63.74	17.25	114.65	50.91	150	230	Horizontal
3	5863.35	58.96	17.22	108.56	49.60	150	237	Horizontal
4	5886.37	52.15	17.15	96.89	44.74	150	230	Horizontal
5	5931.79	48.74	17.60	68.30	19.56	150	224	Horizontal



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**4.10.1.49 11AC20\_36 ANT 1\_Vertical**



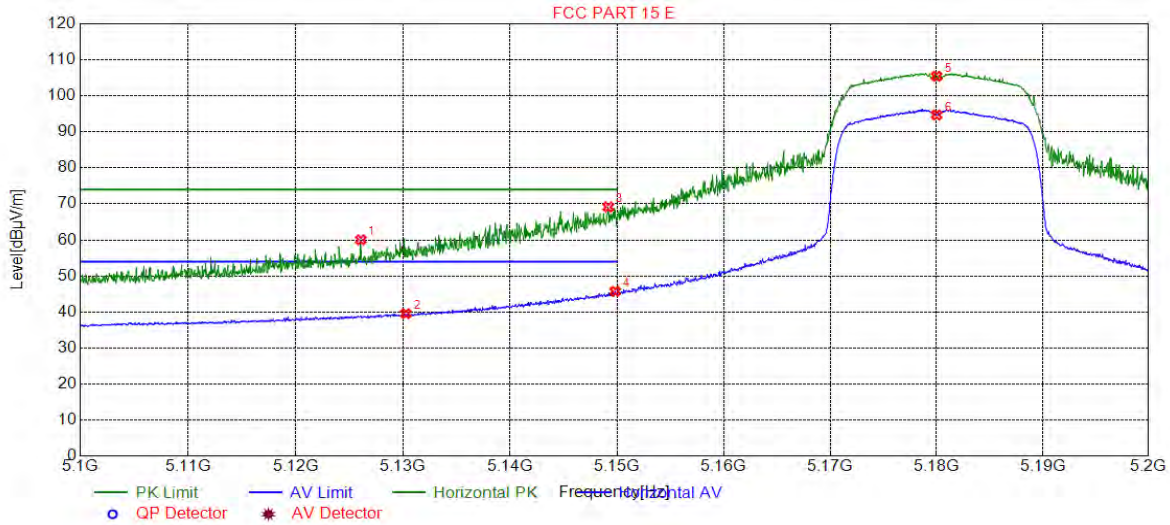
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.16	35.48	15.33	54.00	18.52	150	291	Vertical
2	5131.91	53.61	15.36	74.00	20.39	150	319	Vertical
3	5149.42	39.37	15.52	54.00	14.63	150	324	Vertical
4	5149.42	61.14	15.52	74.00	12.86	150	291	Vertical
5	5180.00	97.97	15.56	0.00	-97.97	150	285	Vertical
6	5180.00	87.83	15.56	0.00	-87.83	150	285	Vertical



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**4.10.1.50 11AC20\_36 ANT 1\_ Horizontal**

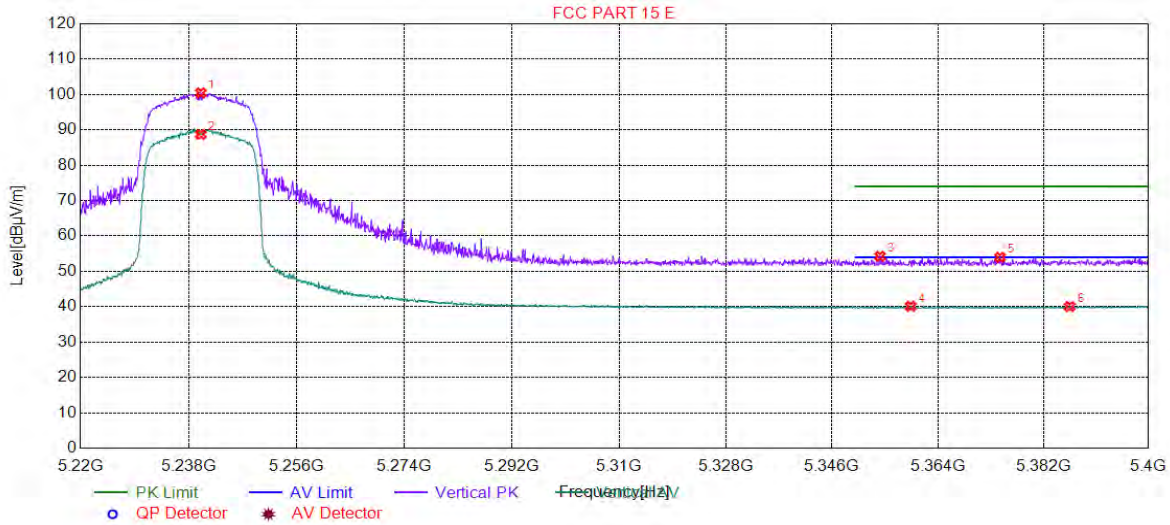


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.06	60.04	15.31	74.00	13.96	150	356	Horizontal
2	5130.26	39.53	15.35	54.00	14.47	150	356	Horizontal
3	5149.17	69.13	15.51	74.00	4.87	150	324	Horizontal
4	5149.82	45.74	15.52	54.00	8.26	150	356	Horizontal
5	5180.00	105.44	15.56	0.00	-105.44	150	19	Horizontal
6	5180.00	94.68	15.56	0.00	-94.68	150	339	Horizontal



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4.10.1.51 11AC20\_48 ANT 1\_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	100.46	15.49	0.00	-100.46	150	278	Vertical
2	5240.00	88.72	15.49	0.00	-88.72	150	313	Vertical
3	5354.16	54.27	15.97	74.00	19.73	150	202	Vertical
4	5359.38	40.11	16.00	54.00	13.89	150	313	Vertical
5	5374.60	53.98	16.09	74.00	20.02	150	195	Vertical
6	5386.49	40.06	16.17	54.00	13.94	150	302	Vertical

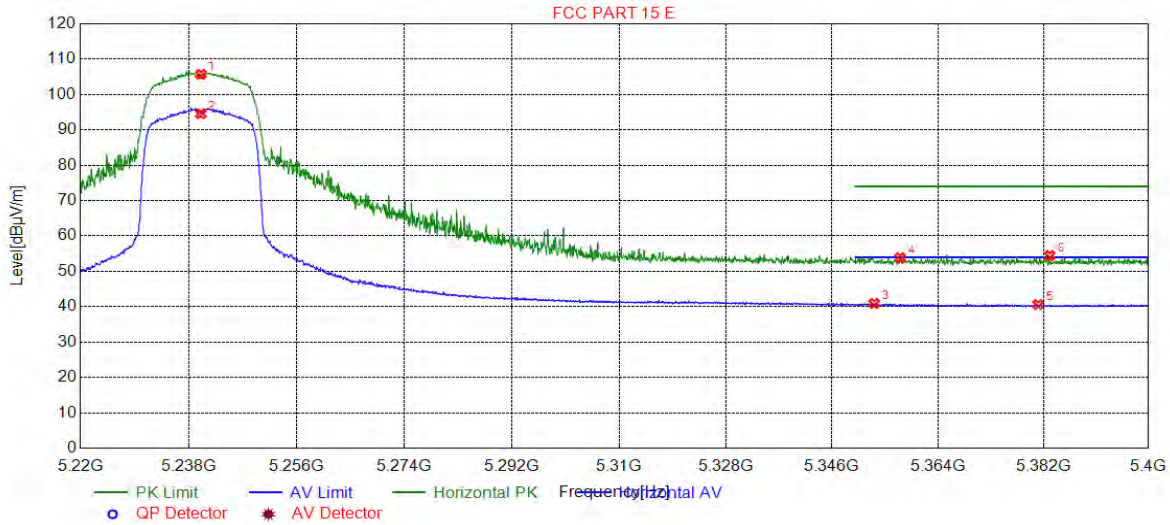


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**4.10.1.52 11AC20\_48 ANT 1\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	105.70	15.49	0.00	-105.70	150	357	Horizontal
2	5240.00	94.56	15.49	0.00	-94.56	150	357	Horizontal
3	5353.17	40.91	15.96	54.00	13.09	150	357	Horizontal
4	5357.58	53.86	15.99	74.00	20.14	150	58	Horizontal
5	5381.09	40.63	16.13	54.00	13.37	150	345	Horizontal
6	5383.07	54.47	16.15	74.00	19.53	150	326	Horizontal

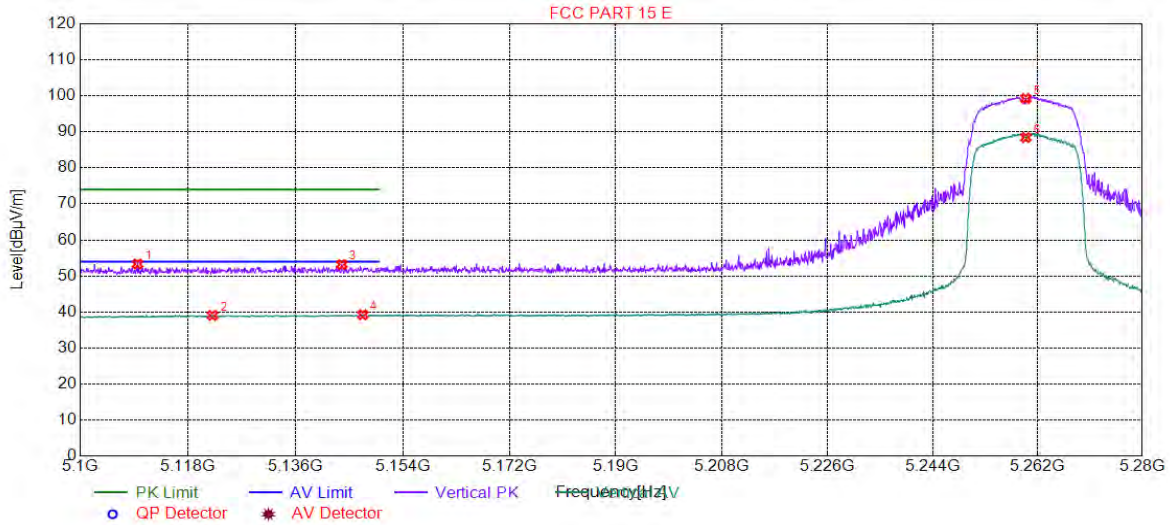


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**4.10.1.53 11AC20\_52 ANT 1\_Vertical**

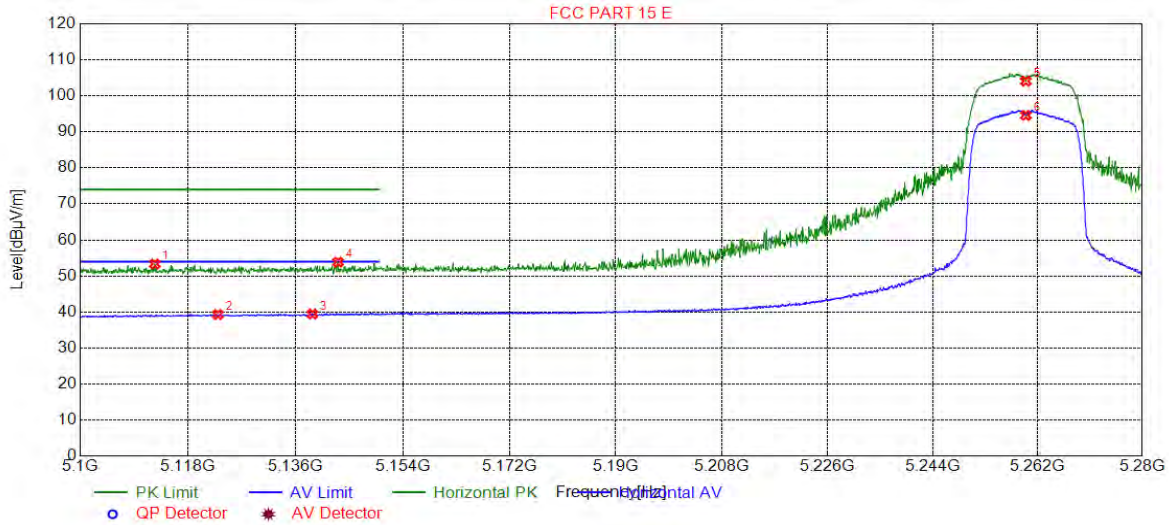


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5109.54	53.32	15.17	74.00	20.68	150	141	Vertical
2	5122.06	39.05	15.28	54.00	14.95	150	32	Vertical
3	5143.76	53.18	15.47	74.00	20.82	150	147	Vertical
4	5147.27	39.24	15.50	54.00	14.76	150	342	Vertical
5	5260.00	99.26	15.51	0.00	-99.26	150	288	Vertical
6	5260.00	88.43	15.51	0.00	-88.43	150	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	150	227	Horizontal
2	5122.96	39.30	15.29	54.00	14.70	150	31	Horizontal
3	5138.80	39.42	15.42	54.00	14.58	150	31	Horizontal
4	5143.13	53.86	15.46	74.00	20.14	150	31	Horizontal
5	5260.00	104.06	15.51	0.00	-104.06	150	31	Horizontal
6	5260.00	94.57	15.51	0.00	-94.57	150	31	Horizontal

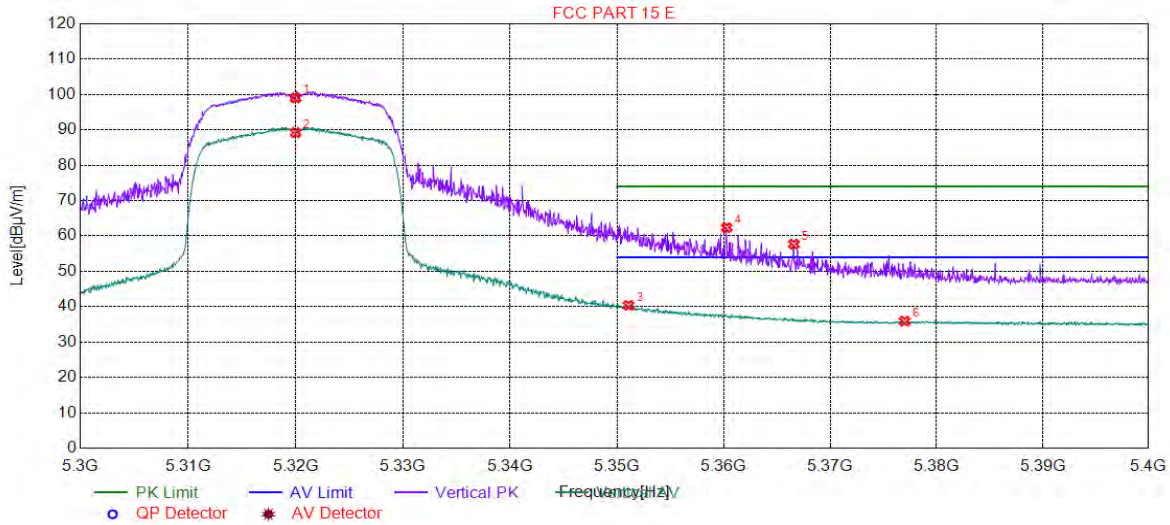


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**4.10.1.55 11AC20\_64 ANT 1\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	99.04	15.80	0.00	-99.04	150	284	Vertical
2	5320.00	89.24	15.80	0.00	-89.24	150	284	Vertical
3	5351.07	40.38	15.95	54.00	13.62	150	291	Vertical
4	5360.28	62.36	16.00	74.00	11.64	150	284	Vertical
5	5366.58	57.69	16.04	74.00	16.31	150	325	Vertical
6	5376.98	35.91	16.11	54.00	18.09	150	298	Vertical



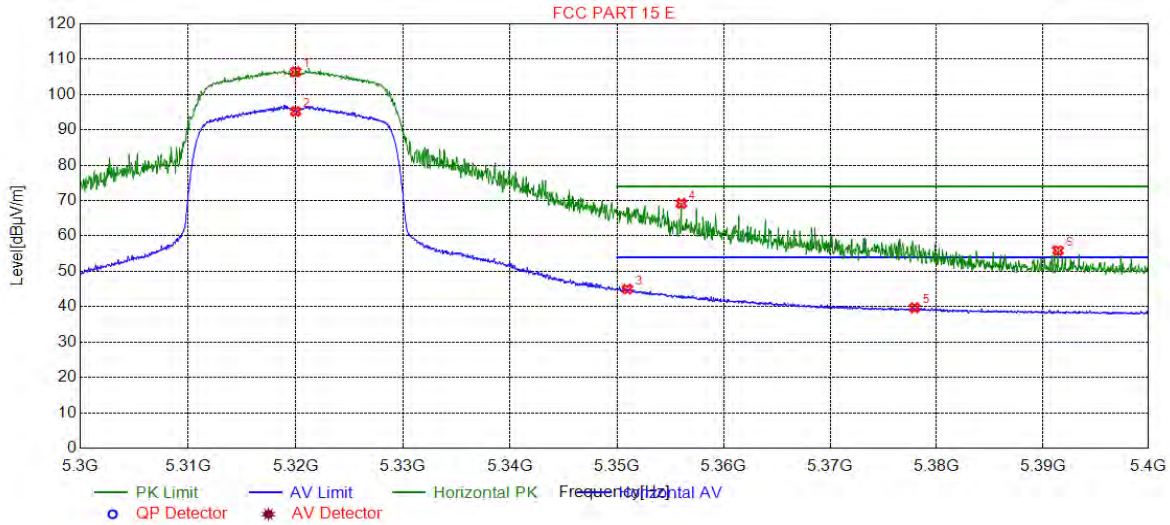
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**4.10.1.56 11AC20\_64 ANT 1\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	106.40	15.80	0.00	-106.40	150	346	Horizontal
2	5320.00	95.21	15.80	0.00	-95.21	150	357	Horizontal
3	5350.97	44.96	15.95	54.00	9.04	150	357	Horizontal
4	5356.02	69.21	15.98	74.00	4.79	150	357	Horizontal
5	5377.93	39.70	16.11	54.00	14.30	150	357	Horizontal
6	5391.44	55.89	16.20	74.00	18.11	150	16	Horizontal

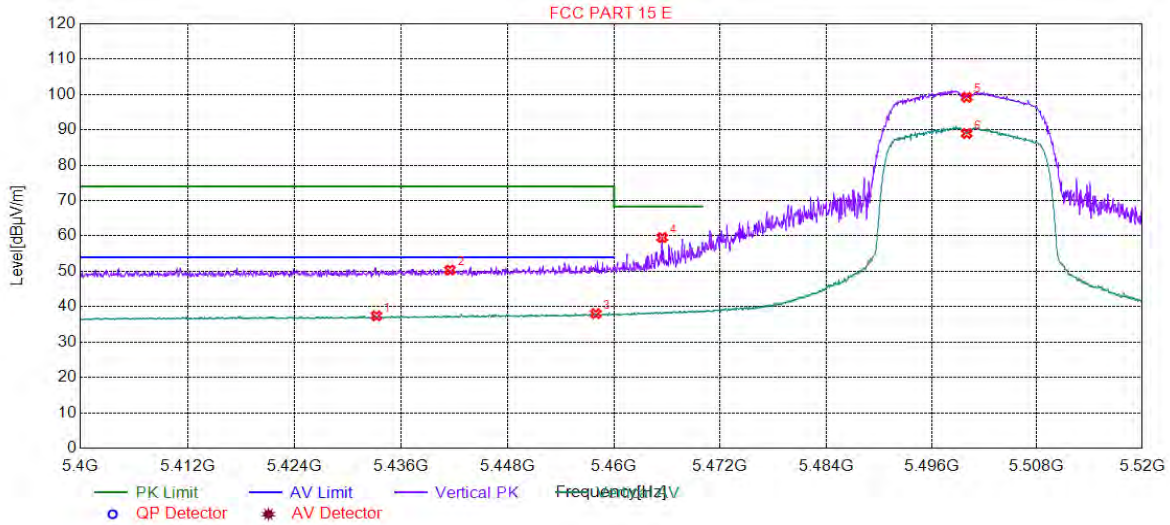


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**4.10.1.57 11AC20\_100 ANT 1\_Vertical**

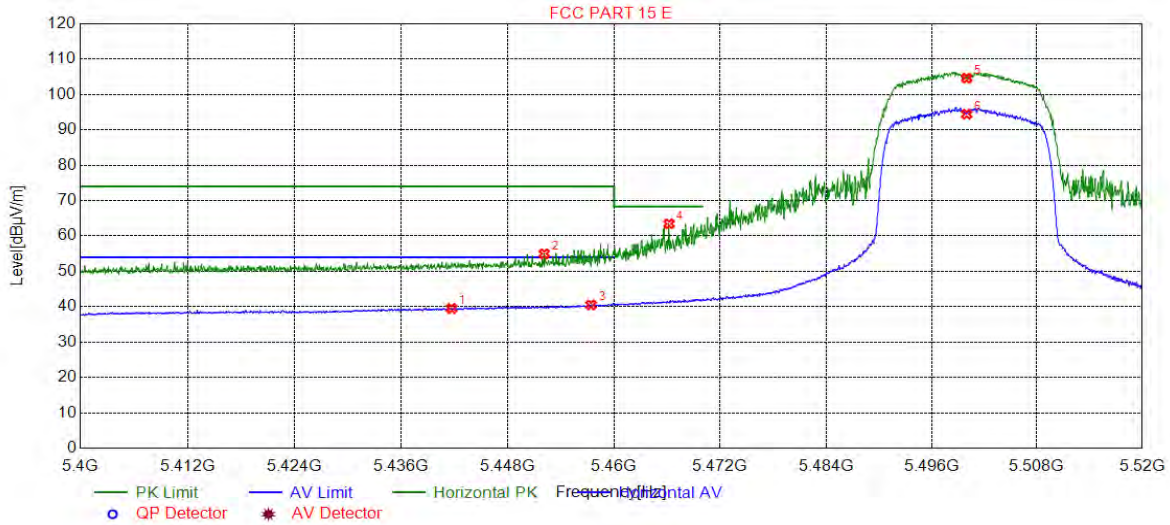


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5433.19	37.42	16.25	54.00	16.58	150	326	Vertical
2	5441.48	50.39	16.25	74.00	23.61	150	296	Vertical
3	5457.92	38.03	16.25	54.00	15.97	150	307	Vertical
4	5465.43	59.55	16.25	68.30	8.75	150	269	Vertical
5	5500.00	99.25	16.25	0.00	-99.25	150	307	Vertical
6	5500.00	88.99	16.25	0.00	-88.99	150	269	Vertical



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**4.10.1.58 11AC20\_100 ANT 1\_ Horizontal**



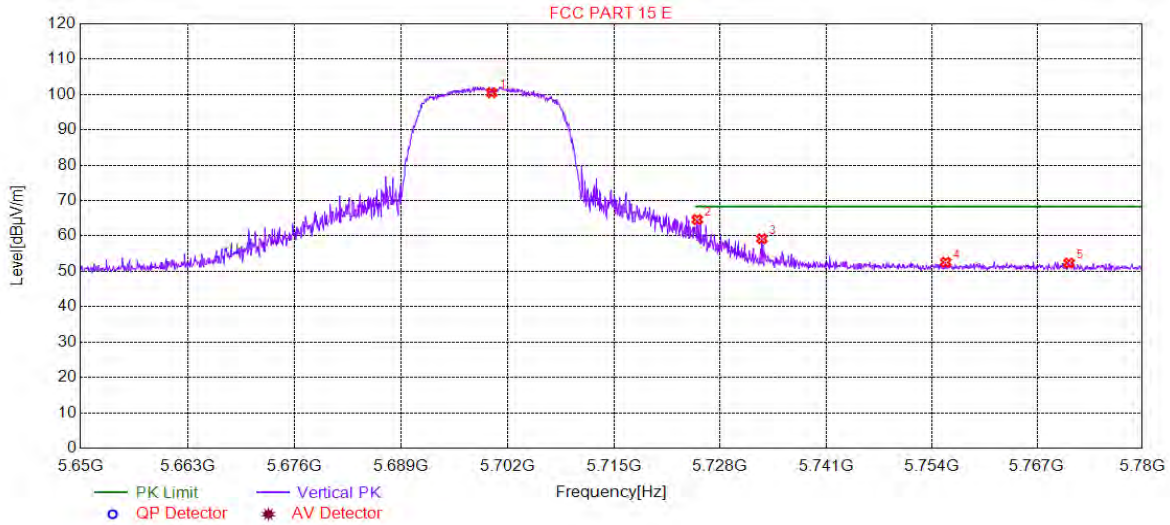
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5441.66	39.51	16.25	54.00	14.49	150	352	Horizontal
2	5452.10	54.97	16.25	74.00	19.03	150	18	Horizontal
3	5457.38	40.50	16.25	54.00	13.50	150	358	Horizontal
4	5466.21	63.45	16.25	68.30	4.85	150	229	Horizontal
5	5500.00	104.62	16.25	0.00	-104.62	150	229	Horizontal
6	5500.00	94.45	16.25	0.00	-94.45	150	229	Horizontal



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**4.10.1.59 11AC20\_140 ANT 1\_Vertical**



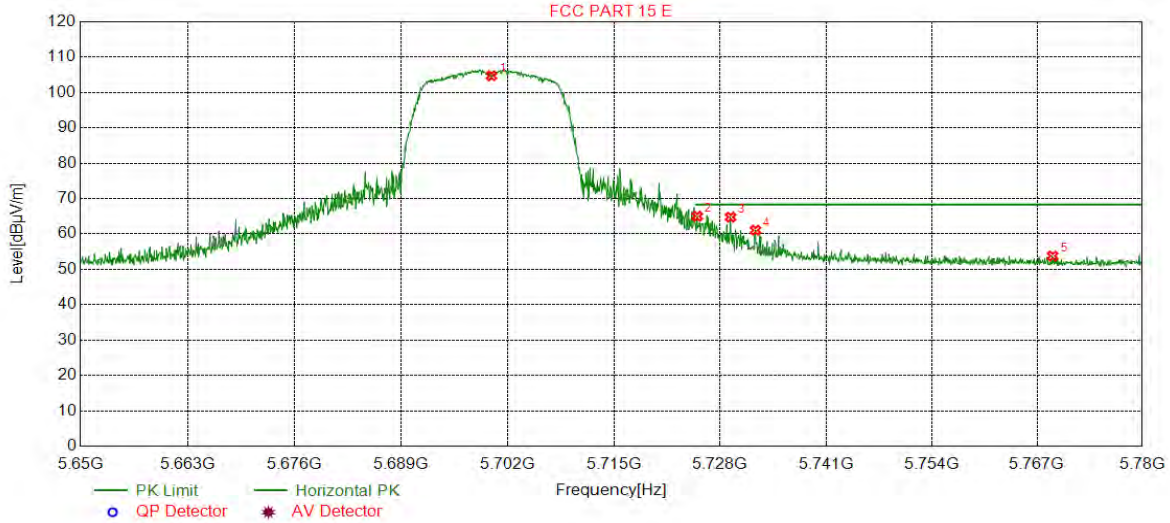
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	100.50	16.80	0.00	-100.50	150	154	Vertical
2	5725.17	64.65	16.96	68.30	3.65	150	279	Vertical
3	5733.11	59.22	17.01	68.30	9.08	150	149	Vertical
4	5755.74	52.57	17.13	68.30	15.73	150	273	Vertical
5	5770.96	52.35	17.15	68.30	15.95	150	171	Vertical



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4.10.1.60 11AC20\_140 ANT 1\_ Horizontal

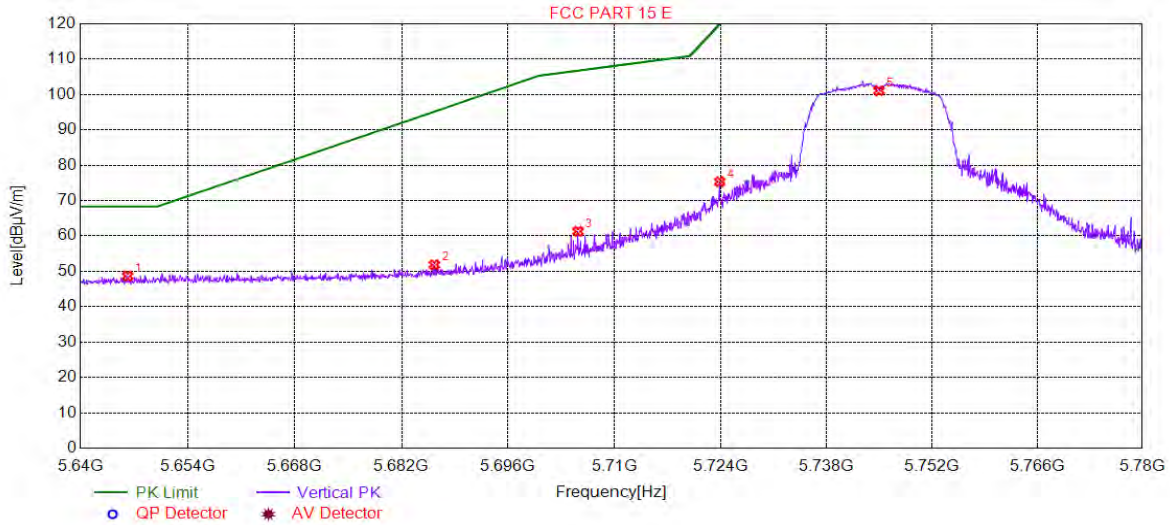


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	104.73	16.80	0.00	-104.73	150	231	Horizontal
2	5725.17	65.01	16.96	68.30	3.29	150	231	Horizontal
3	5729.27	64.77	16.99	68.30	3.53	150	231	Horizontal
4	5732.33	61.06	17.01	68.30	7.24	150	241	Horizontal
5	5768.94	53.78	17.15	68.30	14.52	150	231	Horizontal



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**4.10.1.61 11AC20\_149 ANT 1\_Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.16	48.67	16.53	68.30	19.63	150	304	Vertical
2	5686.29	51.84	16.73	95.16	43.32	150	304	Vertical
3	5705.20	61.30	16.83	106.76	45.46	150	327	Vertical
4	5723.90	75.35	16.95	119.80	44.45	150	272	Vertical
5	5745.00	101.07	17.09	0.00	-101.07	150	154	Vertical

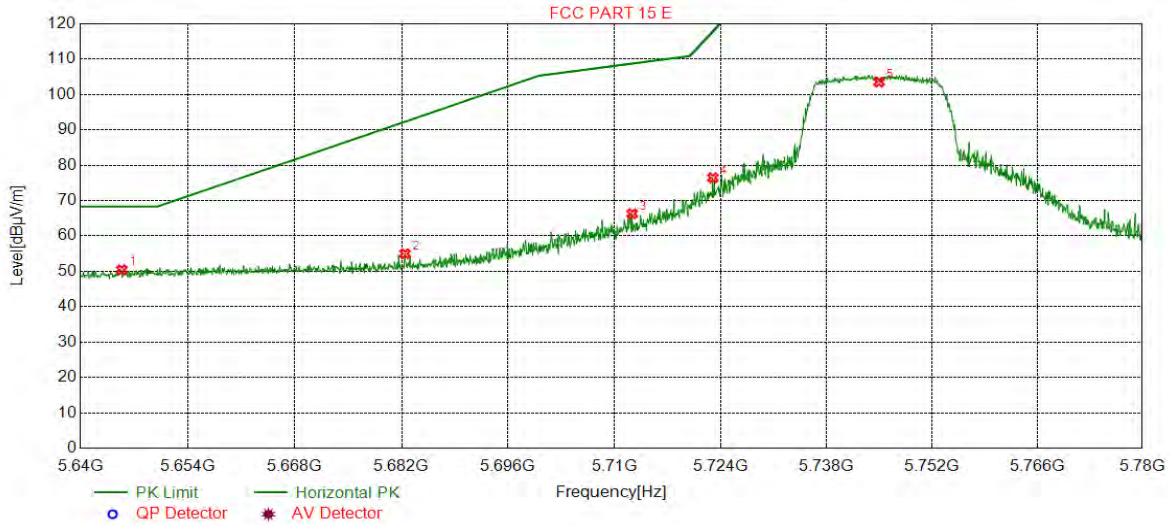


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4.10.1.62 11AC20\_149 ANT 1\_ Horizontal

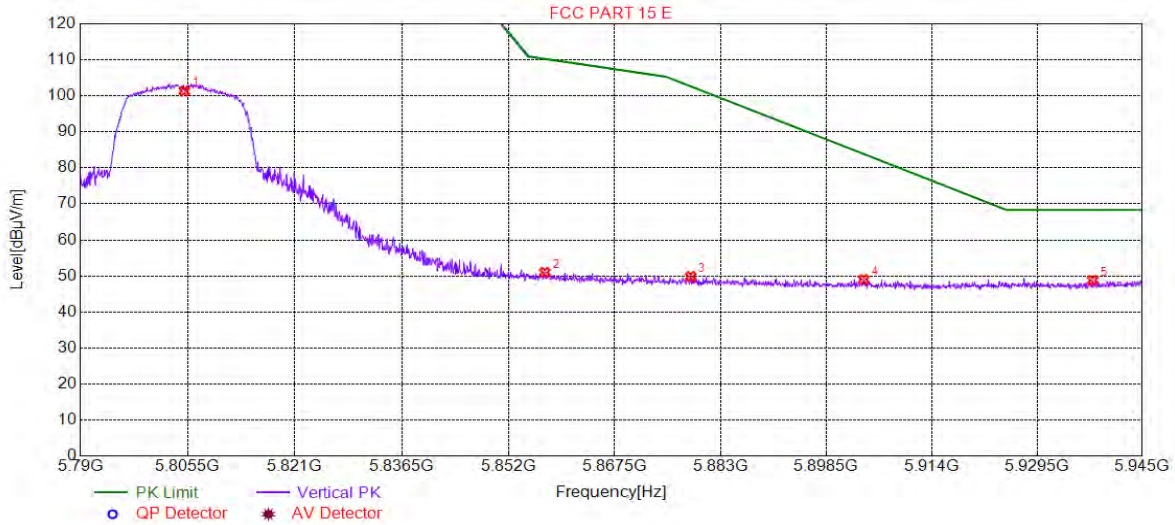


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.39	50.44	16.54	68.30	17.86	150	225	Horizontal
2	5682.44	54.98	16.71	92.31	37.33	150	24	Horizontal
3	5712.34	66.30	16.88	108.76	42.46	150	225	Horizontal
4	5722.99	76.44	16.95	117.72	41.28	150	225	Horizontal
5	5745.00	103.50	17.09	0.00	-103.50	150	230	Horizontal



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**4.10.1.63 11AC20\_161 ANT 1\_Vertical**



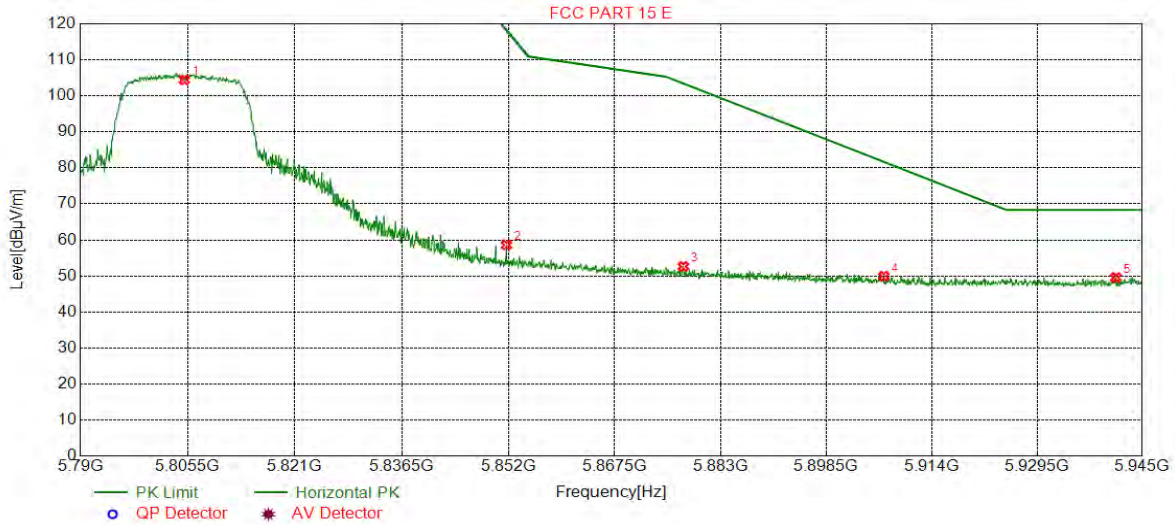
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5805.00	101.33	17.20	0.00	-101.33	150	298	Vertical
2	5857.30	51.01	17.24	110.25	59.24	150	331	Vertical
3	5878.62	49.87	17.17	102.62	52.75	150	123	Vertical
4	5903.98	49.02	17.17	83.85	34.83	150	298	Vertical
5	5937.71	48.78	17.69	68.30	19.52	150	183	Vertical



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**4.10.1.64 11AC20\_161 ANT 1\_ Horizontal**



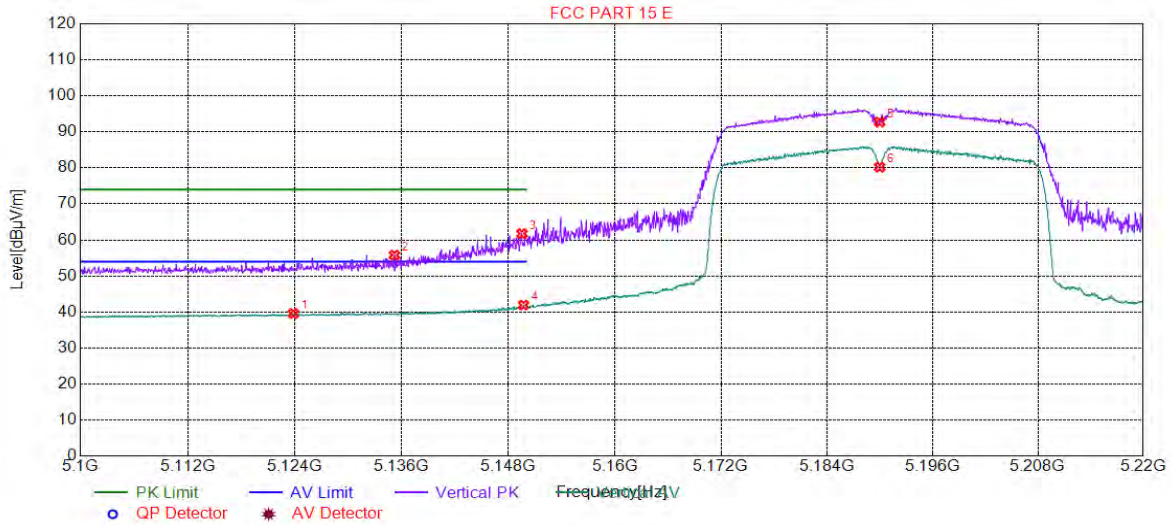
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5805.00	104.44	17.20	0.00	-104.44	150	225	Horizontal
2	5851.72	58.61	17.25	118.38	59.77	150	219	Horizontal
3	5877.54	52.64	17.18	103.42	50.78	150	219	Horizontal
4	5906.92	49.93	17.22	81.67	31.74	150	215	Horizontal
5	5941.12	49.58	17.74	68.30	18.72	150	210	Horizontal



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**4.10.1.65 11AC40\_38 ANT 1\_ Vertical**

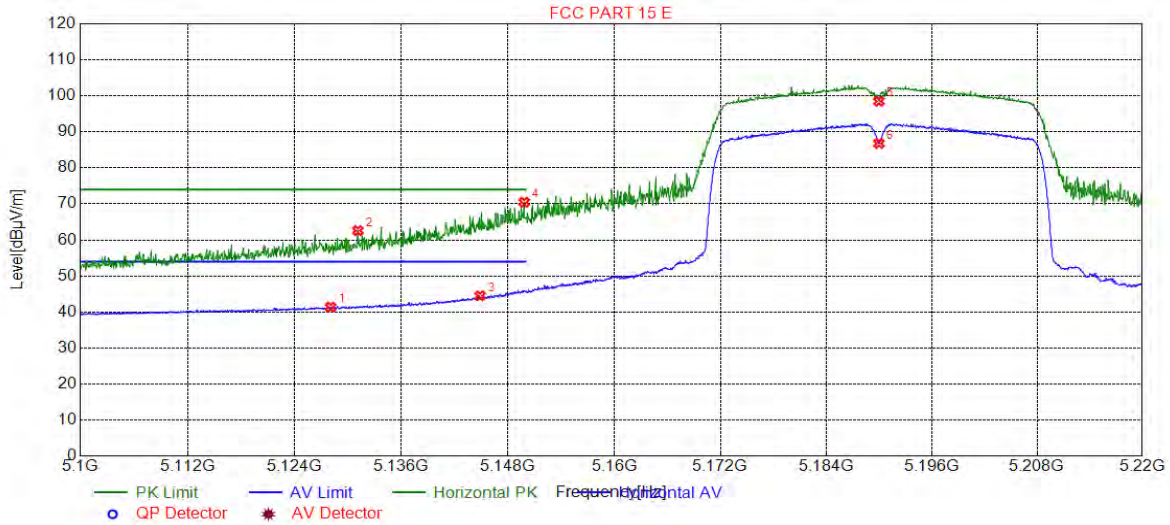


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5123.83	39.56	15.29	54.00	14.44	150	273	Vertical
2	5135.17	55.79	15.39	74.00	18.21	150	282	Vertical
3	5149.52	61.76	15.52	74.00	12.24	150	293	Vertical
4	5149.70	41.92	15.52	54.00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



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**4.10.1.66 11AC40\_38 ANT 1\_ Horizontal**



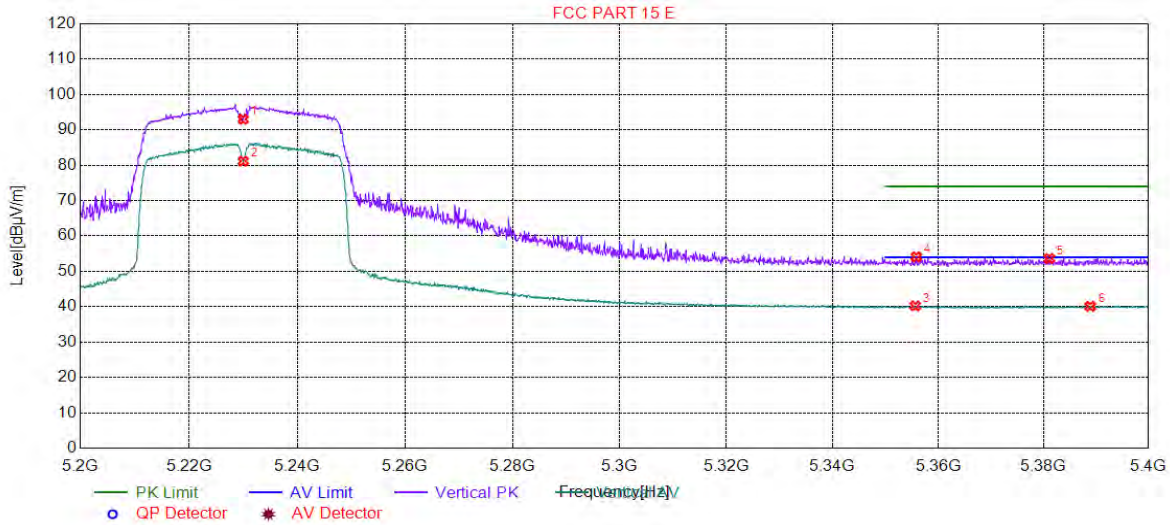
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.03	41.36	15.33	54.00	12.64	150	21	Horizontal
2	5131.09	62.59	15.36	74.00	11.41	150	345	Horizontal
3	5144.84	44.50	15.48	54.00	9.50	150	21	Horizontal
4	5149.82	70.48	15.52	74.00	3.52	150	21	Horizontal
5	5190.00	98.48	15.58	0.00	-98.48	150	351	Horizontal
6	5190.00	86.79	15.58	0.00	-86.79	150	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	150	318	Vertical
2	5230.00	81.16	15.51	0.00	-81.16	150	275	Vertical
3	5355.67	40.21	15.98	54.00	13.79	150	242	Vertical
4	5355.87	54.11	15.98	74.00	19.89	150	118	Vertical
5	5381.09	53.63	16.13	74.00	20.37	150	345	Vertical
6	5388.89	40.11	16.18	54.00	13.89	150	275	Vertical

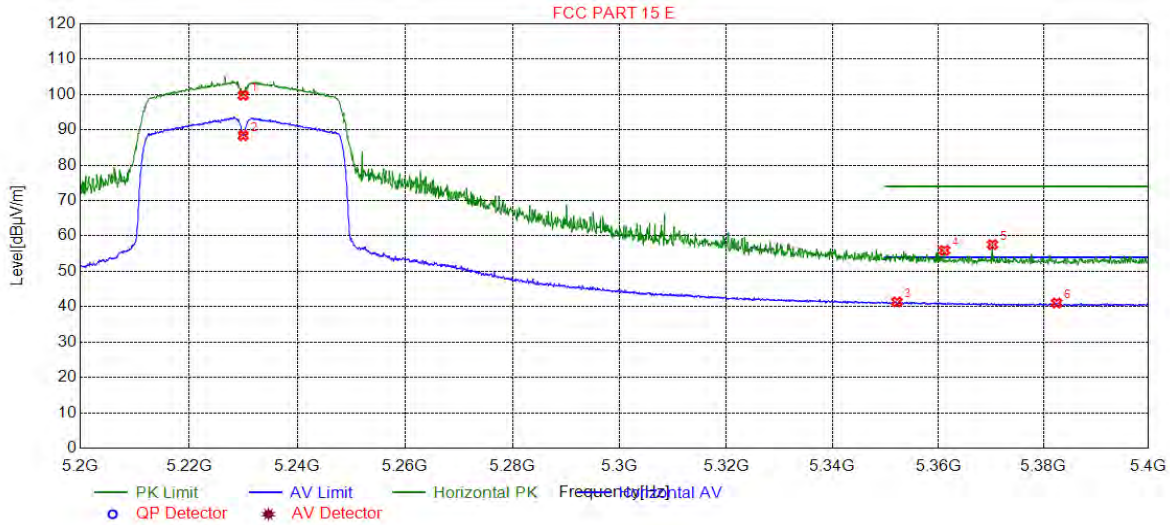


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**4.10.1.68 11AC40\_46 ANT 1\_ Horizontal**



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	150	28	Horizontal
2	5230.00	88.38	15.51	0.00	-88.38	150	360	Horizontal
3	5352.17	41.36	15.95	54.00	12.64	150	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	150	28	Horizontal
6	5382.49	41.05	16.14	54.00	12.95	150	28	Horizontal

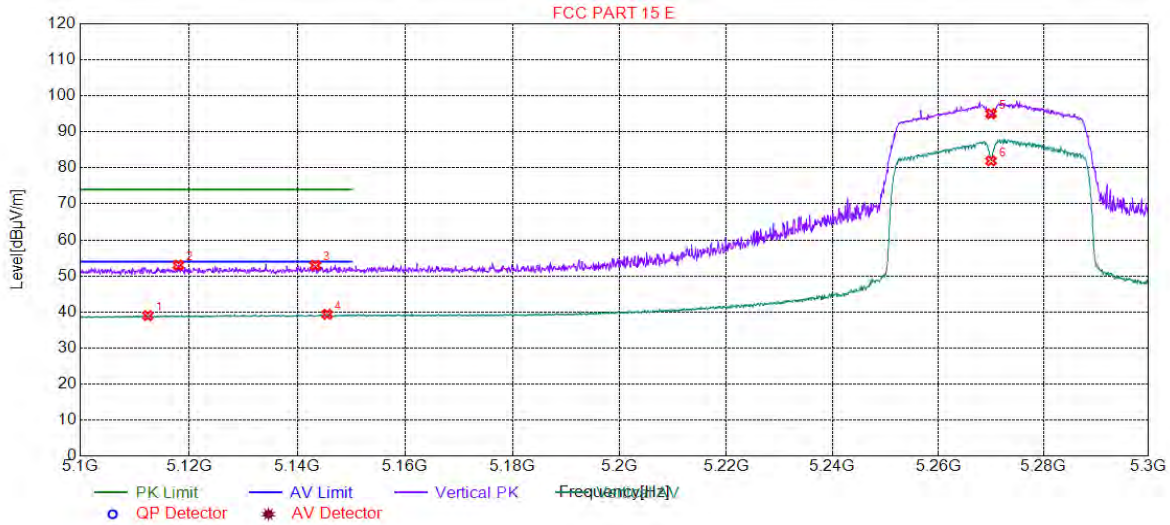


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**4.10.1.69 11AC40\_54 ANT 1\_ Vertical**



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	150	272	Vertical
2	5118.00	53.00	15.24	74.00	21.00	150	240	Vertical
3	5143.32	52.93	15.46	74.00	21.07	150	22	Vertical
4	5145.52	39.35	15.48	54.00	14.65	150	10	Vertical
5	5270.00	95.02	15.56	0.00	-95.02	150	298	Vertical
6	5270.00	81.95	15.56	0.00	-81.95	150	281	Vertical

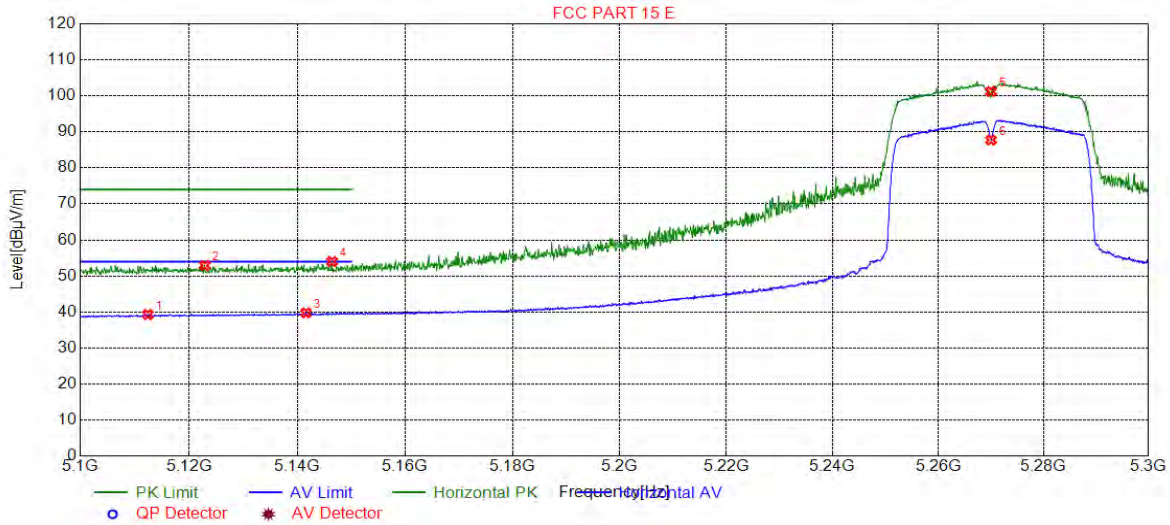


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4.10.1.70 11AC40\_54 ANT 1\_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5112.40	39.29	15.20	54.00	14.71	150	348	Horizontal
2	5122.91	52.91	15.29	74.00	21.09	150	190	Horizontal
3	5141.62	39.77	15.45	54.00	14.23	150	360	Horizontal
4	5146.42	54.01	15.49	74.00	19.99	150	360	Horizontal
5	5270.00	101.22	15.56	0.00	-101.22	150	25	Horizontal
6	5270.00	87.73	15.56	0.00	-87.73	150	360	Horizontal



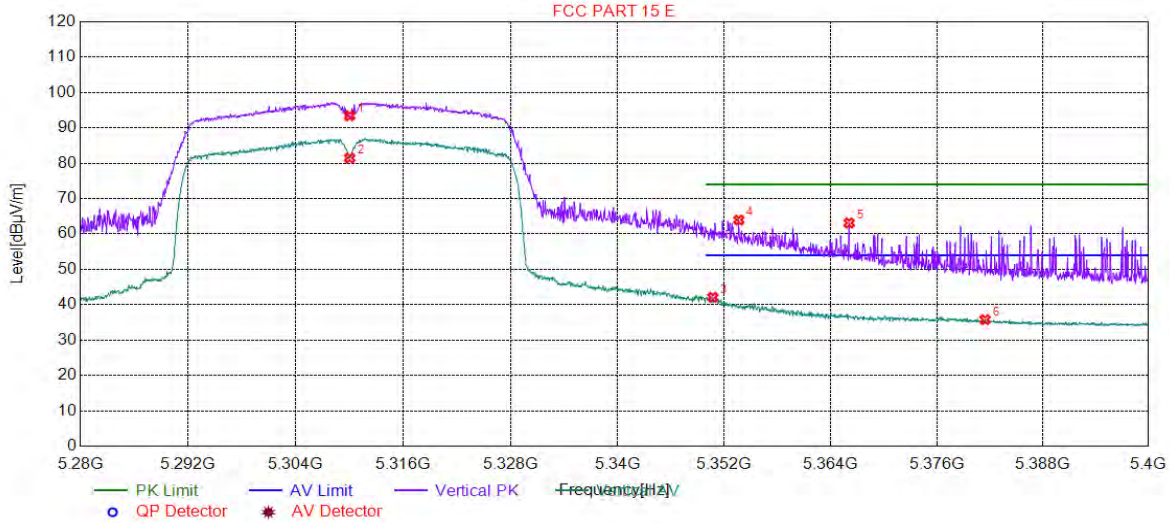
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**4.10.1.71 11AC40\_62 ANT 1\_ Vertical**



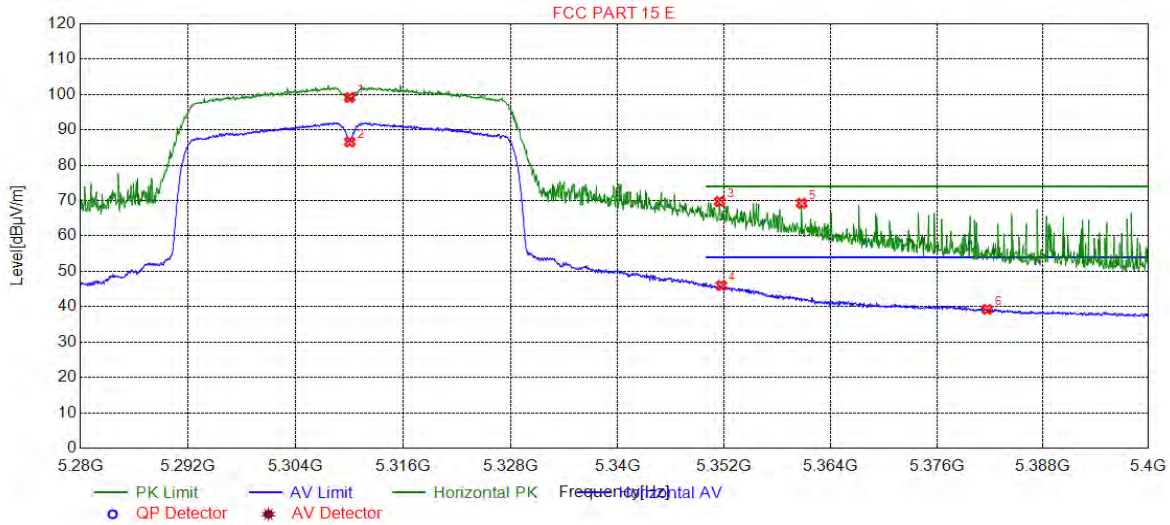
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	93.44	15.75	0.00	-93.44	150	279	Vertical
2	5310.00	81.47	15.75	0.00	-81.47	150	285	Vertical
3	5350.71	42.09	15.94	54.00	11.91	150	279	Vertical
4	5353.65	63.95	15.96	74.00	10.05	150	285	Vertical
5	5366.08	63.10	16.04	74.00	10.90	150	285	Vertical
6	5381.45	35.78	16.13	54.00	18.22	150	320	Vertical



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**4.10.1.72 11AC40\_62 ANT 1\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	99.14	15.75	0.00	-99.14	150	360	Horizontal
2	5310.00	86.61	15.75	0.00	-86.61	150	337	Horizontal
3	5351.49	69.74	15.95	74.00	4.26	150	337	Horizontal
4	5351.67	46.02	15.95	54.00	7.98	150	350	Horizontal
5	5360.74	69.23	16.01	74.00	4.77	150	360	Horizontal
6	5381.69	39.26	16.14	54.00	14.74	150	350	Horizontal

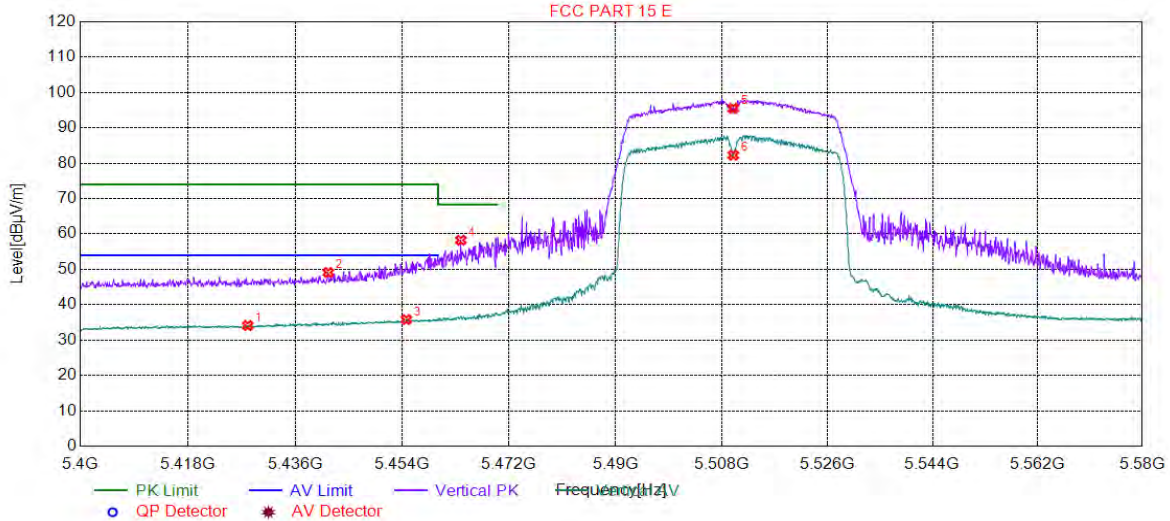


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**4.10.1.73 11AC40\_102 ANT 1\_ Vertical**



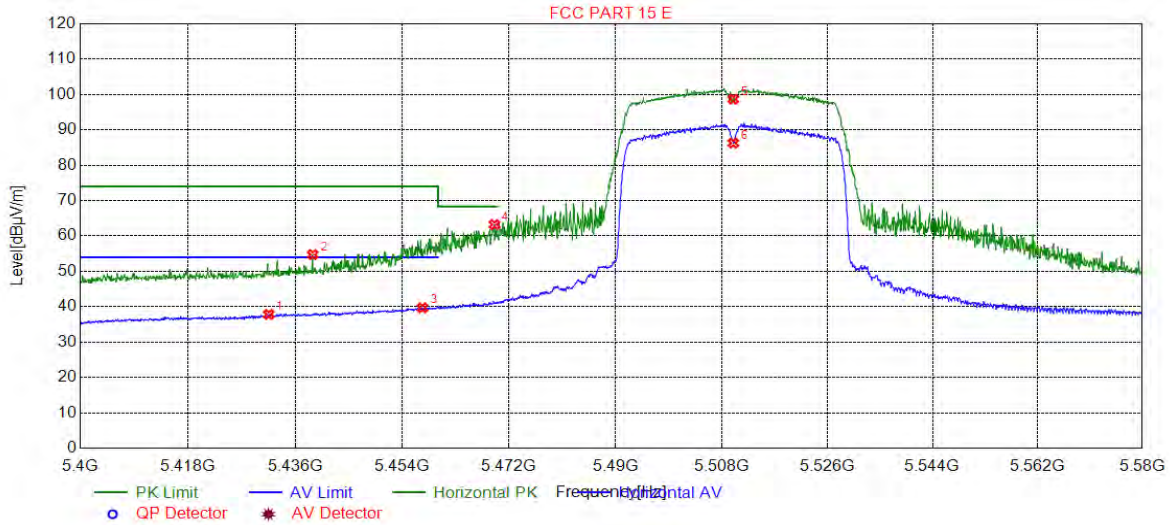
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5428.00	34.11	16.25	54.00	19.89	150	310	Vertical
2	5441.51	49.12	16.25	74.00	24.88	150	276	Vertical
3	5454.65	35.80	16.25	54.00	18.20	150	310	Vertical
4	5463.84	58.25	16.25	68.30	10.05	150	276	Vertical
5	5510.00	95.52	16.28	0.00	-95.52	150	303	Vertical
6	5510.00	82.30	16.28	0.00	-82.30	150	303	Vertical



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**4.10.1.74 11AC40\_102 ANT 1\_ Horizontal**

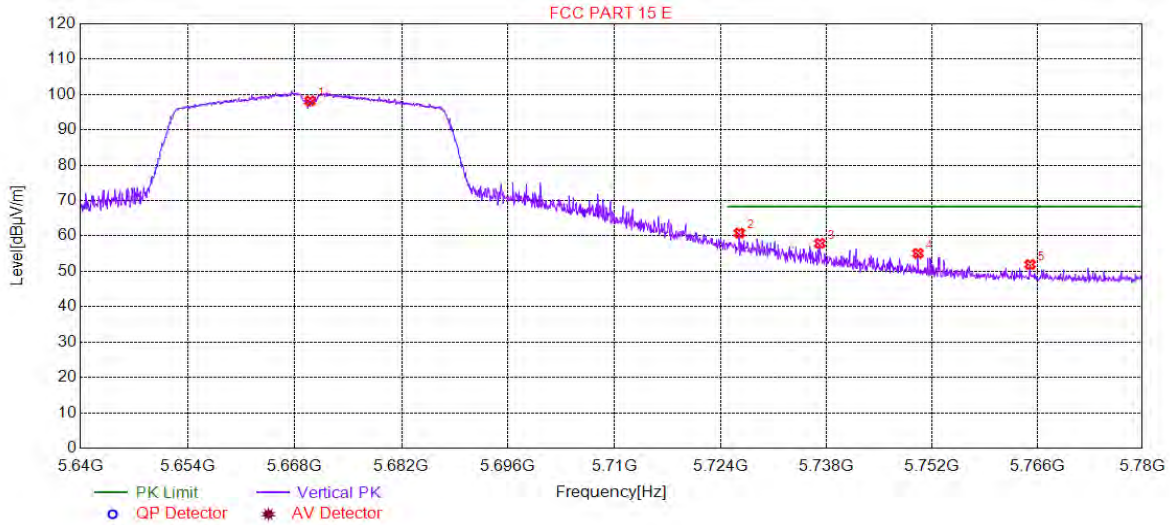


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5431.51	37.82	16.25	54.00	16.18	150	336	Horizontal
2	5438.89	54.75	16.25	74.00	19.25	150	360	Horizontal
3	5457.35	39.69	16.25	54.00	14.31	150	336	Horizontal
4	5469.51	63.23	16.25	68.30	5.07	150	360	Horizontal
5	5510.00	98.68	16.28	0.00	-98.68	150	336	Horizontal
6	5510.00	86.26	16.28	0.00	-86.26	150	264	Horizontal



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**4.10.1.75 11AC40\_134 ANT 1\_ Vertical**

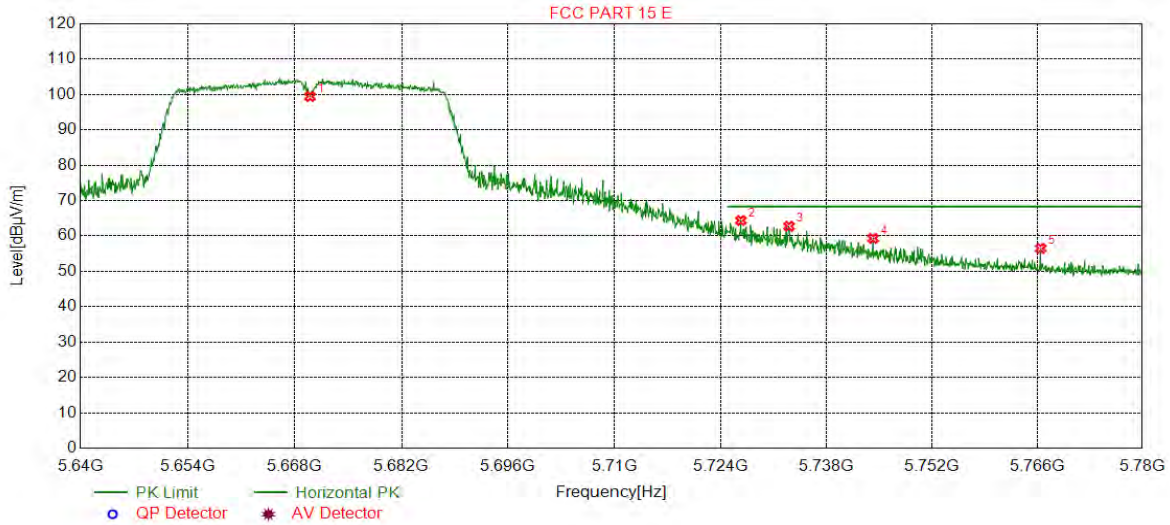


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	98.18	16.64	0.00	-98.18	150	326	Vertical
2	5726.49	60.83	16.97	68.30	7.47	150	356	Vertical
3	5737.13	57.92	17.04	68.30	10.38	150	286	Vertical
4	5750.16	55.08	17.12	68.30	13.22	150	175	Vertical
5	5765.08	51.93	17.14	68.30	16.37	150	296	Vertical



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**4.10.1.76 11AC40\_134 ANT 1\_ Horizontal**



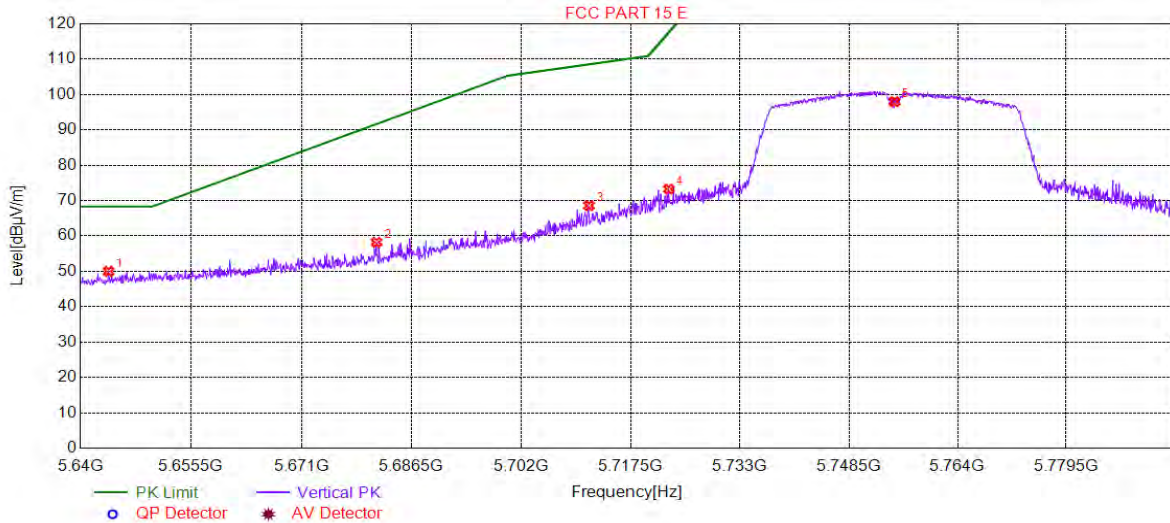
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	99.42	16.64	0.00	-99.42	150	344	Horizontal
2	5726.70	64.37	16.97	68.30	3.93	150	226	Horizontal
3	5733.07	62.75	17.01	68.30	5.55	150	226	Horizontal
4	5744.21	59.33	17.08	68.30	8.97	150	226	Horizontal
5	5766.48	56.51	17.14	68.30	11.79	150	226	Horizontal



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**4.10.1.77 11AC40\_151 ANT 1\_ Vertical**

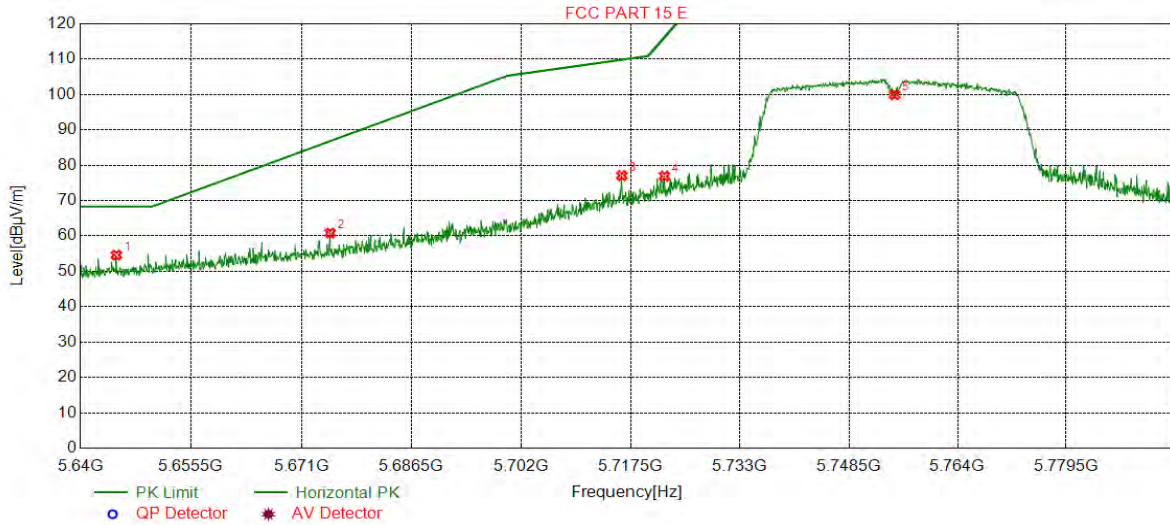


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.95	50.01	16.54	68.30	18.29	150	346	Vertical
2	5681.56	58.24	16.70	91.65	33.41	150	164	Vertical
3	5711.56	68.59	16.87	108.54	39.95	150	172	Vertical
4	5722.88	73.25	16.95	117.49	44.24	150	164	Vertical
5	5755.00	97.96	17.13	0.00	-97.96	150	334	Vertical



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**4.10.1.78 11AC40\_151 ANT 1\_ Horizontal**

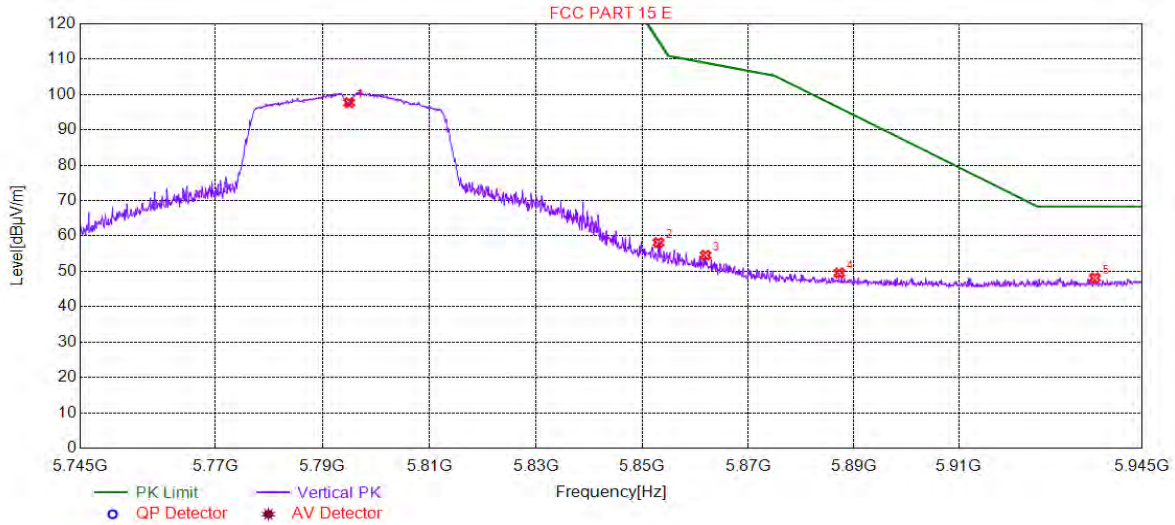


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.04	54.59	16.54	68.30	13.71	150	226	Horizontal
2	5675.04	60.84	16.67	86.84	26.00	150	226	Horizontal
3	5716.22	77.06	16.90	109.84	32.78	150	235	Horizontal
4	5722.26	76.91	16.94	116.07	39.16	150	235	Horizontal
5	5755.00	99.93	17.13	0.00	-99.93	150	214	Horizontal



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**4.10.1.79 11AC40\_159 ANT 1\_ Vertical**



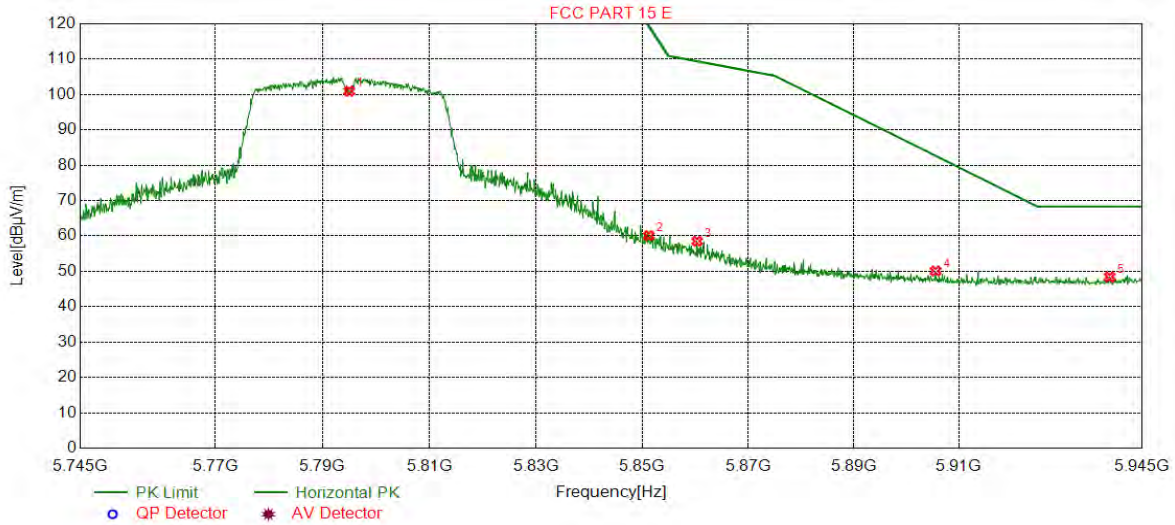
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	97.69	17.18	0.00	-97.69	150	304	Vertical
2	5853.05	58.13	17.25	115.34	57.21	150	130	Vertical
3	5861.95	54.54	17.22	108.95	54.41	150	182	Vertical
4	5887.27	49.53	17.15	96.22	46.69	150	304	Vertical
5	5935.99	48.14	17.66	68.30	20.16	150	134	Vertical



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**4.10.1.80 11AC40\_159 ANT 1\_ Horizontal**

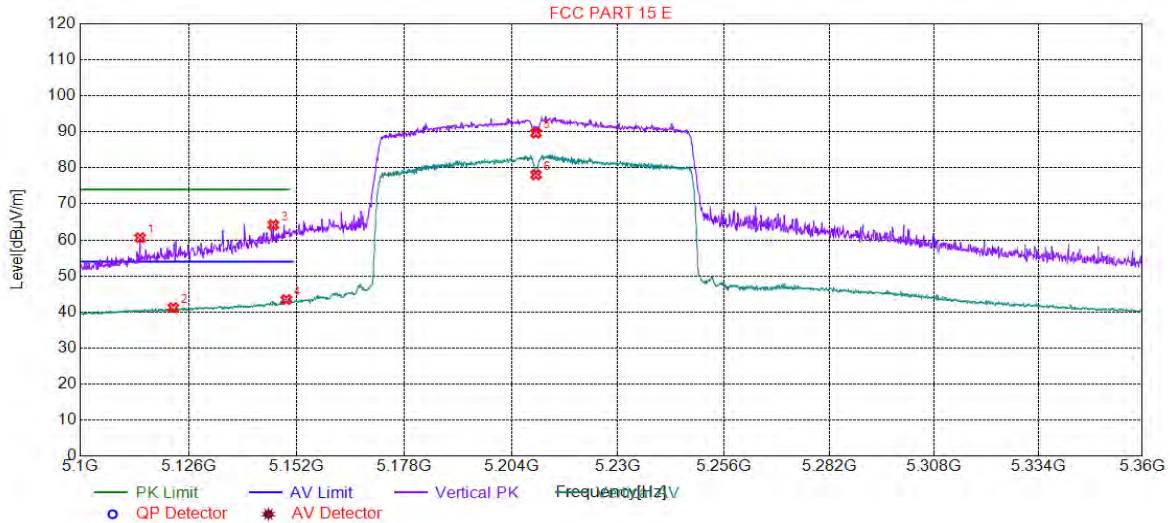


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	100.96	17.18	0.00	-100.96	150	232	Horizontal
2	5851.25	60.09	17.26	119.44	59.35	150	213	Horizontal
3	5860.35	58.51	17.23	109.40	50.89	150	232	Horizontal
4	5905.58	50.10	17.20	82.67	32.57	150	226	Horizontal
5	5938.79	48.41	17.71	68.30	19.89	150	226	Horizontal



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**4.10.1.81 11AC80\_42 ANT 1\_Vertical**

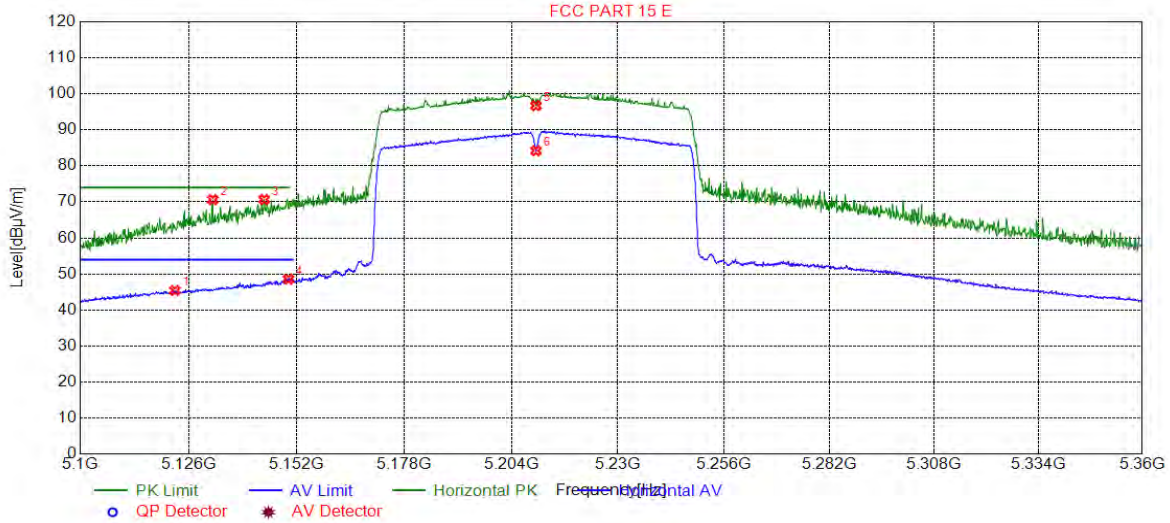


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5114.30	60.60	15.21	74.00	13.40	150	321	Vertical
2	5122.24	41.17	15.28	54.00	12.83	150	330	Vertical
3	5146.30	64.17	15.49	74.00	9.83	150	330	Vertical
4	5149.42	43.43	15.52	54.00	10.57	150	321	Vertical
5	5210.00	89.66	15.56	0.00	-89.66	150	330	Vertical
6	5210.00	78.10	15.56	0.00	-78.10	150	292	Vertical



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**4.10.1.82 11AC80\_42 ANT 1\_ Horizontal**



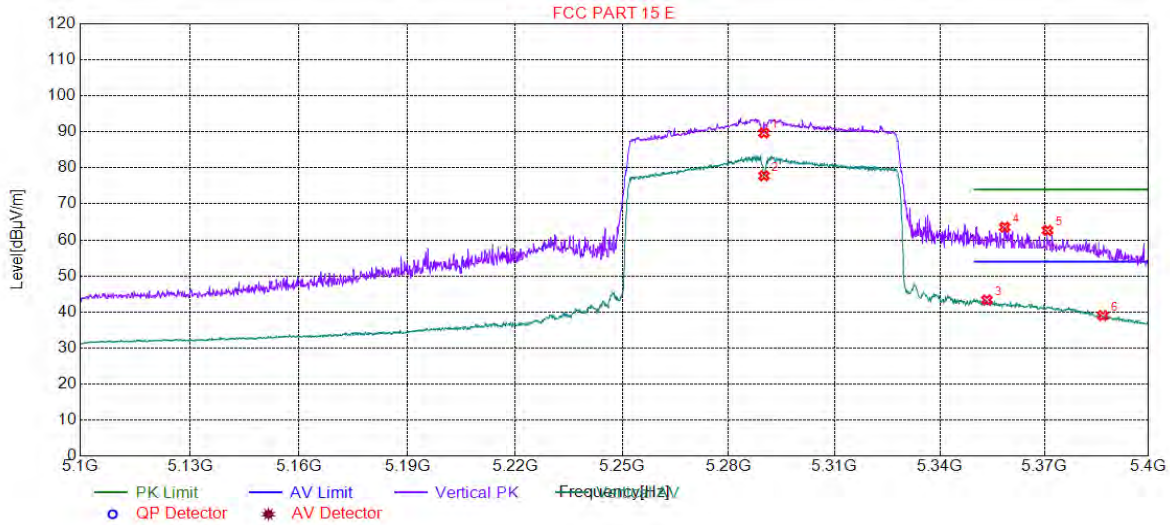
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.63	45.40	15.28	54.00	8.60	150	0	Horizontal
2	5131.73	70.61	15.36	74.00	3.39	150	0	Horizontal
3	5144.09	70.66	15.47	74.00	3.34	150	332	Horizontal
4	5149.94	48.58	15.52	54.00	5.42	150	0	Horizontal
5	5210.00	96.70	15.56	0.00	-96.70	150	0	Horizontal
6	5210.00	84.20	15.56	0.00	-84.20	150	0	Horizontal



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**4.10.1.83 11AC80\_58 ANT 1\_ Vertical**



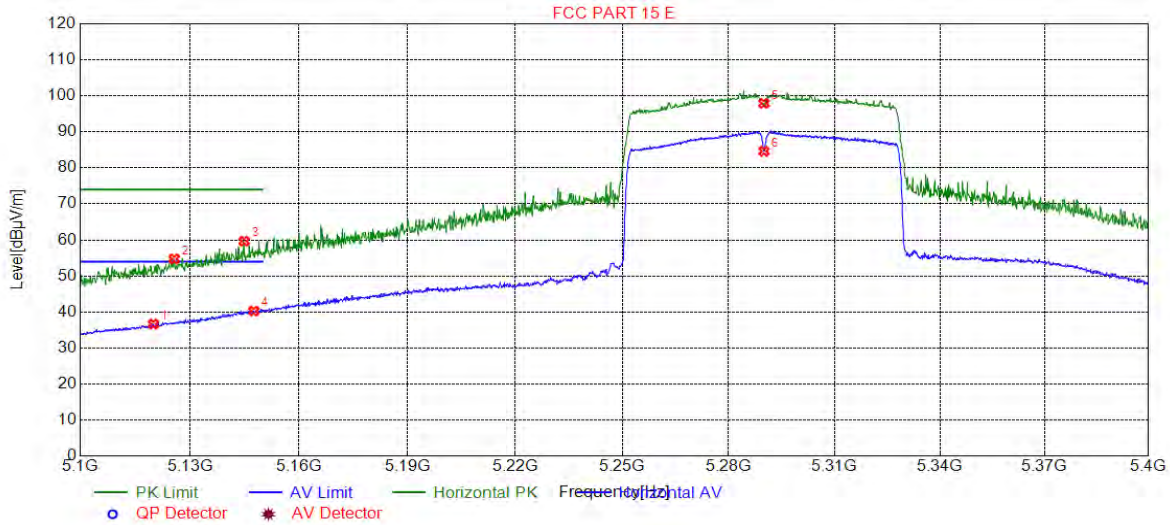
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	89.68	15.65	0.00	-89.68	150	293	Vertical
2	5290.00	77.81	15.65	0.00	-77.81	150	293	Vertical
3	5353.47	43.34	15.96	54.00	10.66	150	293	Vertical
4	5358.57	63.56	15.99	74.00	10.44	150	293	Vertical
5	5370.88	62.65	16.07	74.00	11.35	150	293	Vertical
6	5386.79	39.00	16.17	54.00	15.00	150	293	Vertical



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**4.10.1.84 11AC80\_58 ANT 1\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/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	150	303	Horizontal
3	5144.87	59.67	15.48	74.00	14.33	150	4	Horizontal
4	5147.57	40.26	15.50	54.00	13.74	150	1	Horizontal
5	5290.00	97.91	15.65	0.00	-97.91	150	339	Horizontal
6	5290.00	84.62	15.65	0.00	-84.62	150	339	Horizontal

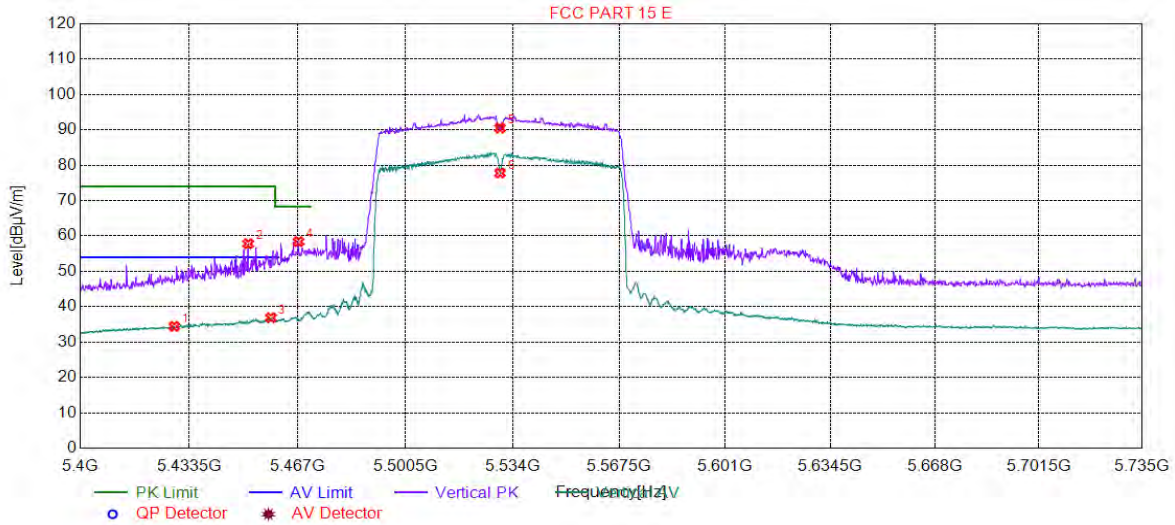


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**4.10.1.85 11AC80\_106 ANT 1\_ Vertical**



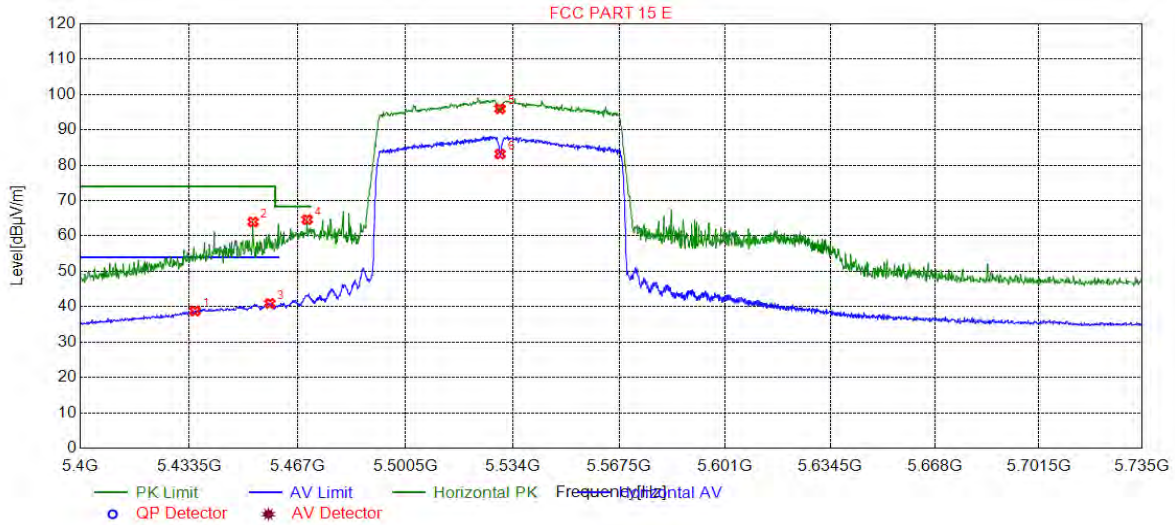
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5428.82	34.45	16.25	54.00	19.55	150	318	Vertical
2	5451.61	57.80	16.25	74.00	16.20	150	255	Vertical
3	5458.65	36.89	16.25	54.00	17.11	150	303	Vertical
4	5467.20	58.40	16.25	68.30	9.90	150	255	Vertical
5	5530.00	90.53	16.35	0.00	-90.53	150	147	Vertical
6	5530.00	77.80	16.35	0.00	-77.80	150	276	Vertical



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4.10.1.86 11AC80\_106 ANT 1\_ Horizontal

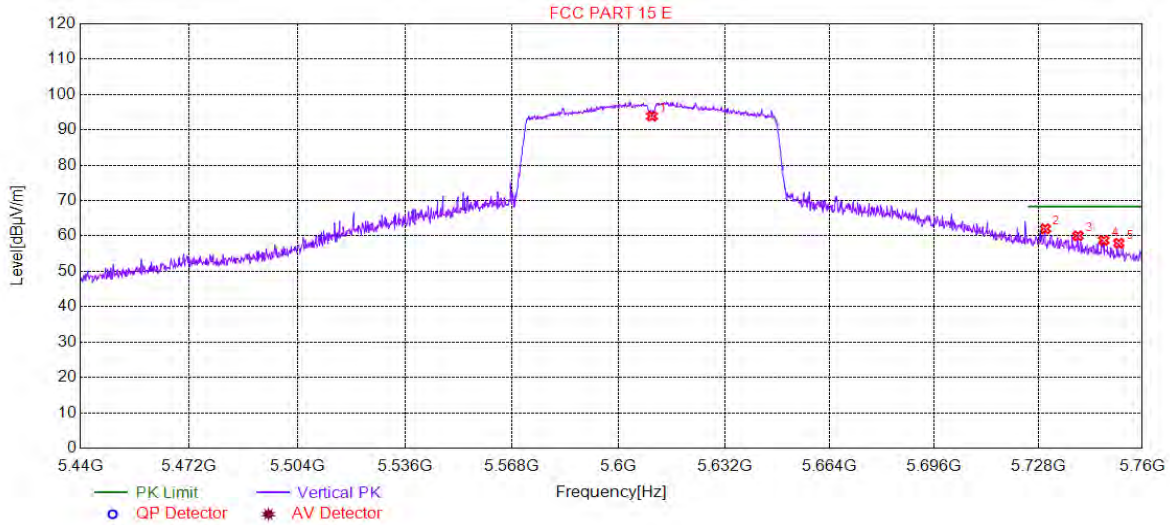


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5435.19	38.78	16.25	54.00	15.22	150	360	Horizontal
2	5453.12	63.97	16.25	74.00	10.03	150	33	Horizontal
3	5458.31	40.92	16.25	54.00	13.08	150	247	Horizontal
4	5469.88	64.64	16.25	68.30	3.66	150	247	Horizontal
5	5530.00	95.98	16.35	0.00	-95.98	150	359	Horizontal
6	5530.00	83.16	16.35	0.00	-83.16	150	247	Horizontal



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**4.10.1.87 11AC80\_122 ANT 1\_ Vertical**

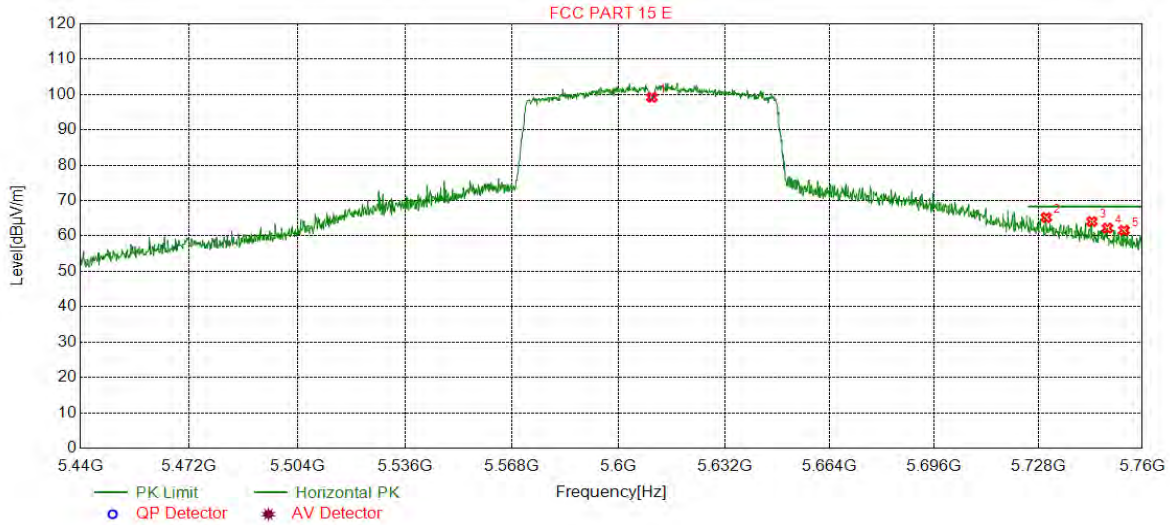


Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	93.88	16.58	0.00	-93.88	150	303	Vertical
2	5730.06	62.02	16.99	68.30	6.28	150	268	Vertical
3	5740.15	60.05	17.06	68.30	8.25	150	291	Vertical
4	5748.15	58.76	17.11	68.30	9.54	150	319	Vertical
5	5752.79	57.96	17.12	68.30	10.34	150	325	Vertical



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**4.10.1.88 11AC80\_122 ANT 1\_ Horizontal**



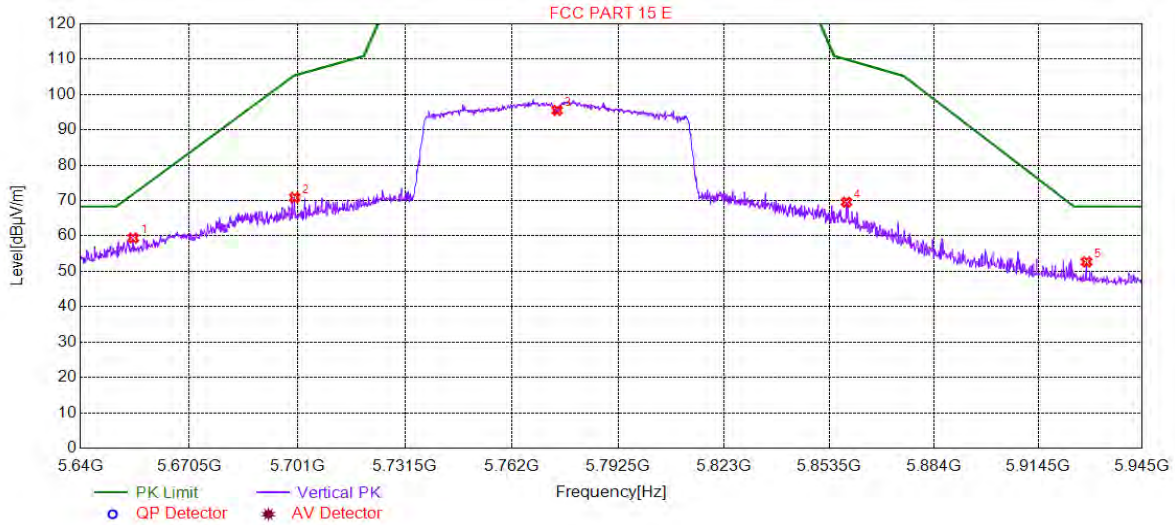
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	99.19	16.58	0.00	-99.19	150	357	Horizontal
2	5730.38	65.23	16.99	68.30	3.07	150	246	Horizontal
3	5744.47	64.10	17.08	68.30	4.20	150	246	Horizontal
4	5749.27	62.20	17.12	68.30	6.10	150	246	Horizontal
5	5754.39	61.60	17.13	68.30	6.70	150	353	Horizontal



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**4.10.1.89 11AC80\_155 ANT 1\_ Vertical**



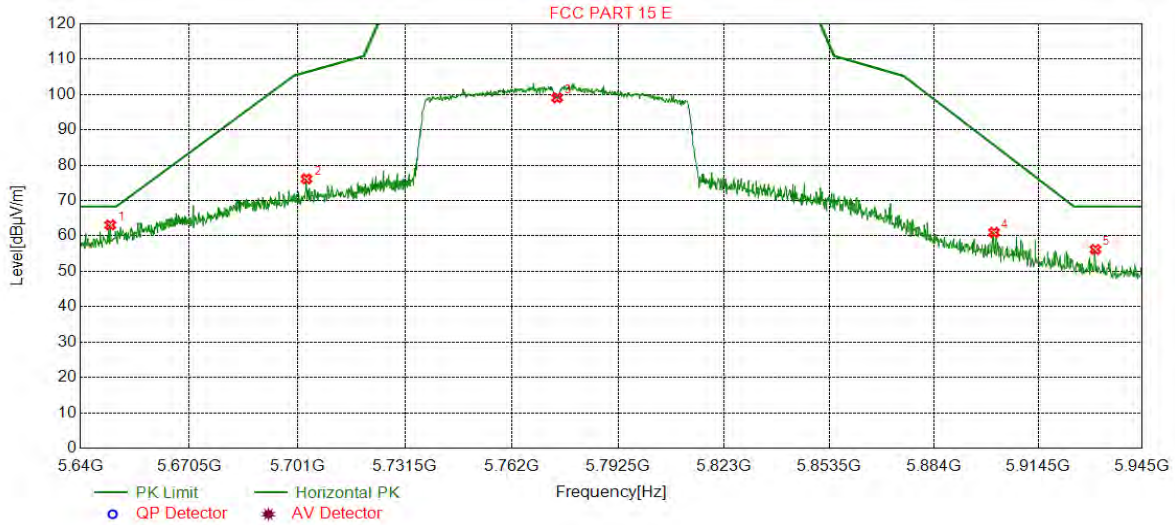
Suspected List								
NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5654.79	59.45	16.56	71.85	12.40	150	142	Vertical
2	5700.26	70.87	16.80	105.37	34.50	150	288	Vertical
3	5775.00	95.52	17.16	122.30	26.78	150	288	Vertical
4	5858.48	69.58	17.23	109.92	40.34	150	288	Vertical
5	5928.67	52.71	17.55	68.30	15.59	150	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	150	230	Horizontal
2	5703.62	76.16	16.82	106.31	30.15	150	230	Horizontal
3	5775.00	99.06	17.16	122.30	23.24	150	238	Horizontal
4	5901.51	61.00	17.13	85.68	24.68	150	311	Horizontal
5	5931.26	56.20	17.59	68.30	12.10	150	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
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	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
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
<b>Additional requirements for devices with multiple bandwidth modes</b>	<b>Master Device or Client with Radar Detection</b>	<b>Client Without Radar Detection</b>
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p><b>Note:</b> 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.</p>		



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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 $\geq$ 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
<p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

**4.12.3 Response Requirements**

**Table 4: DFS Response Requirement Values**

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> 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.</p> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> 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.</p>	



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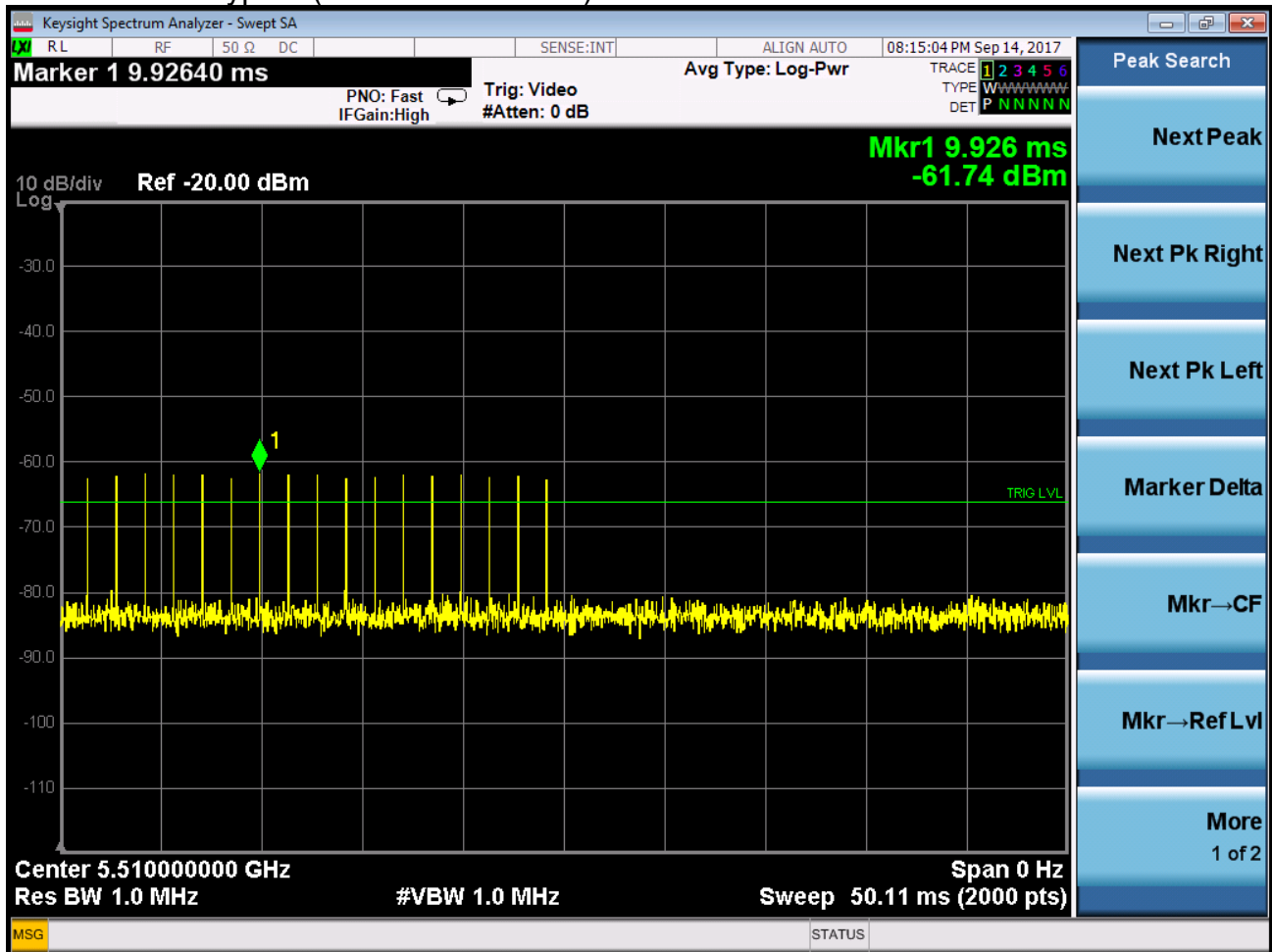
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### 4.12.4 Test plots

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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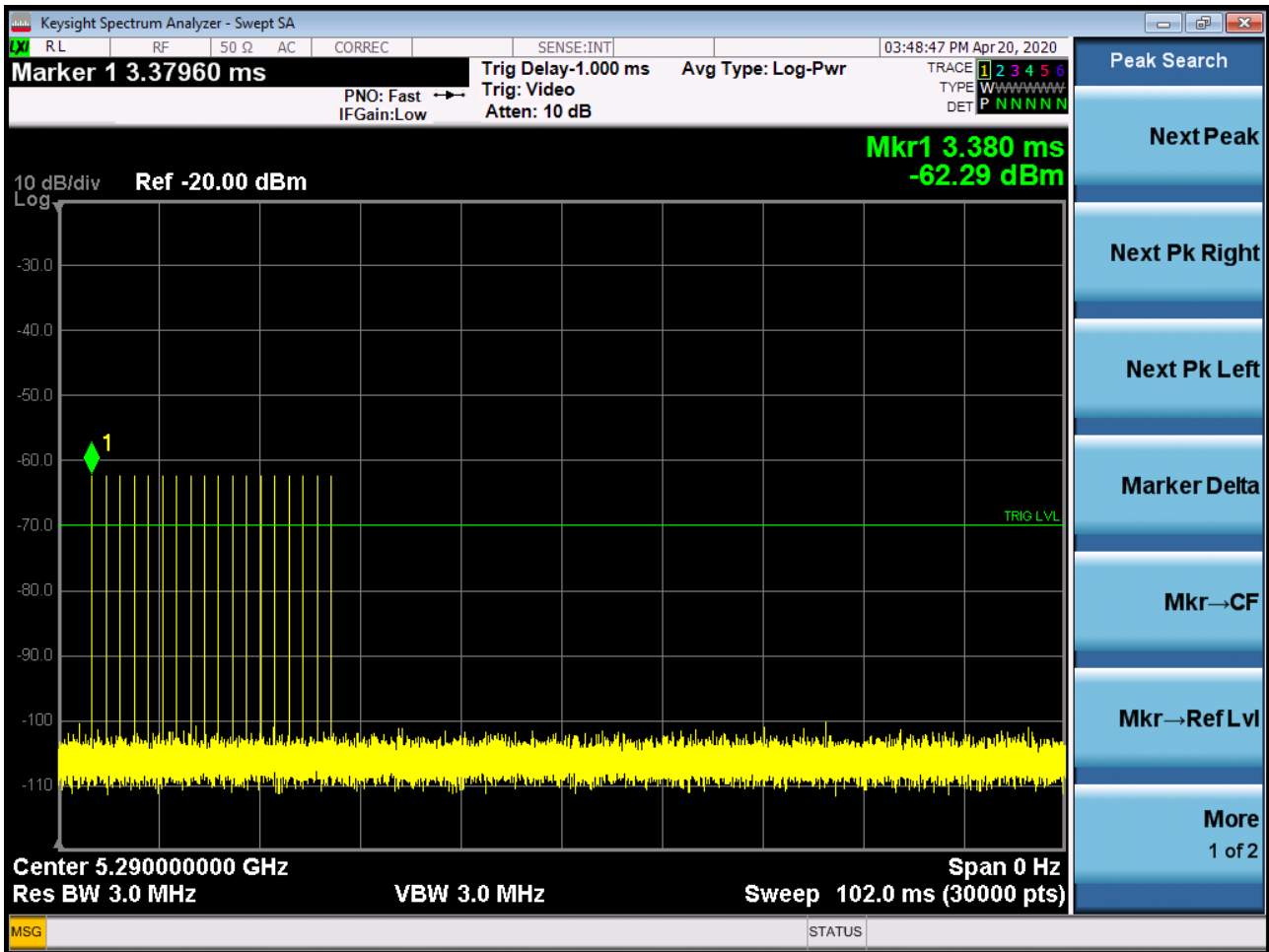


4.12.5 Test Data:

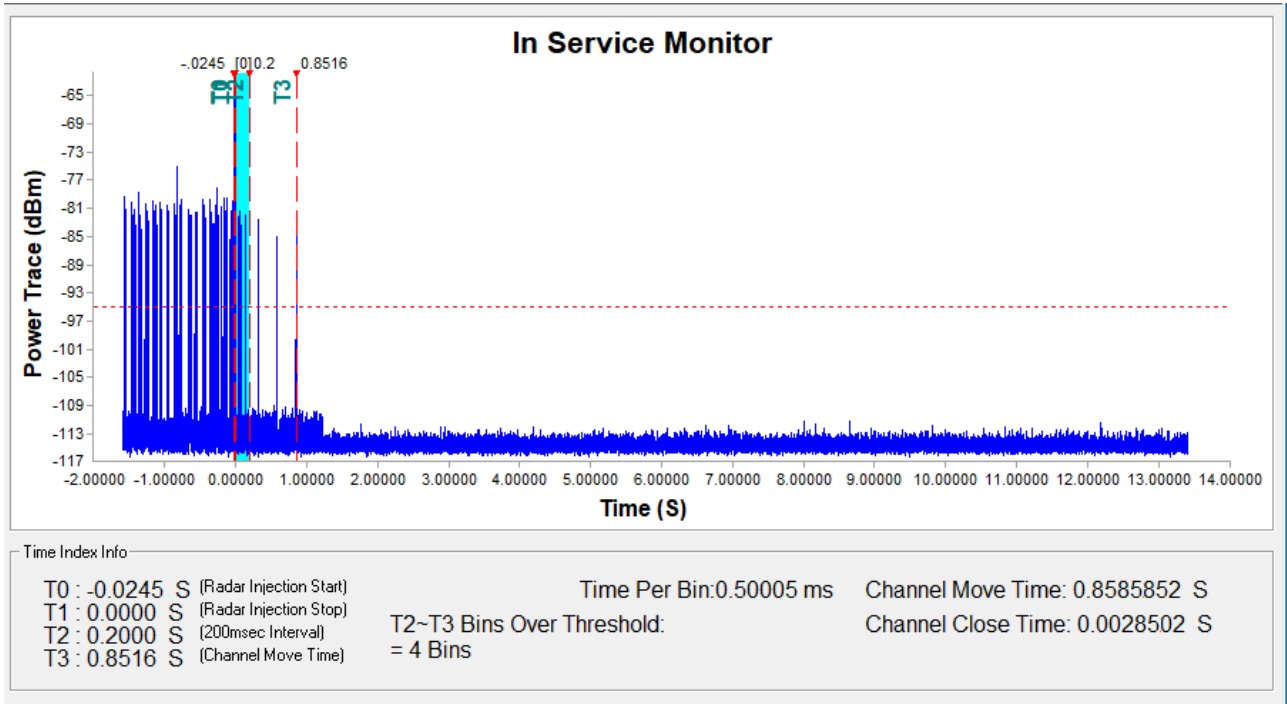
BW/Channel	Test Item	Test Result	Limit	Results
40MHz / 5290MHz	Channel Move Time	0.08s	<10s	Pass
	Channel Closing Transmission Time	3.38ms	<60ms	Pass

4.12.5.1 Test plots

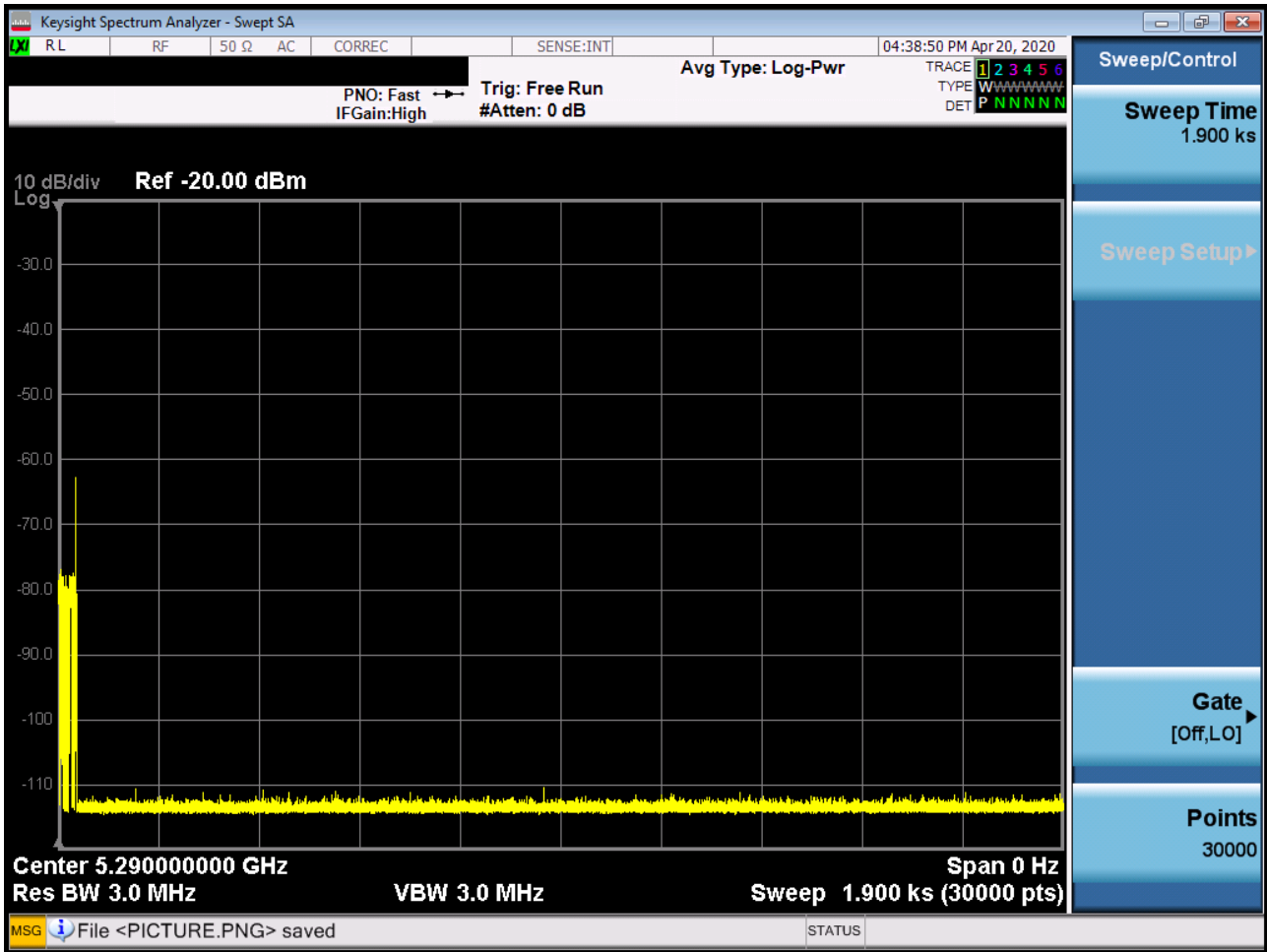
4.12.5.1.1 Test Bandwidth/Channel= 40MHz / 5290MHz



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

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	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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## 6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(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
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/22	2021/3/21
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/9/3	2020/9/2
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020/3/22	2021/3/21
Band filter	N/A	N/A	SEM023-01	N/A	N/A



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019/6/12	2020/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/22	2021/3/21

## 7 Photographs - EUT Test Setup Details

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

The End

