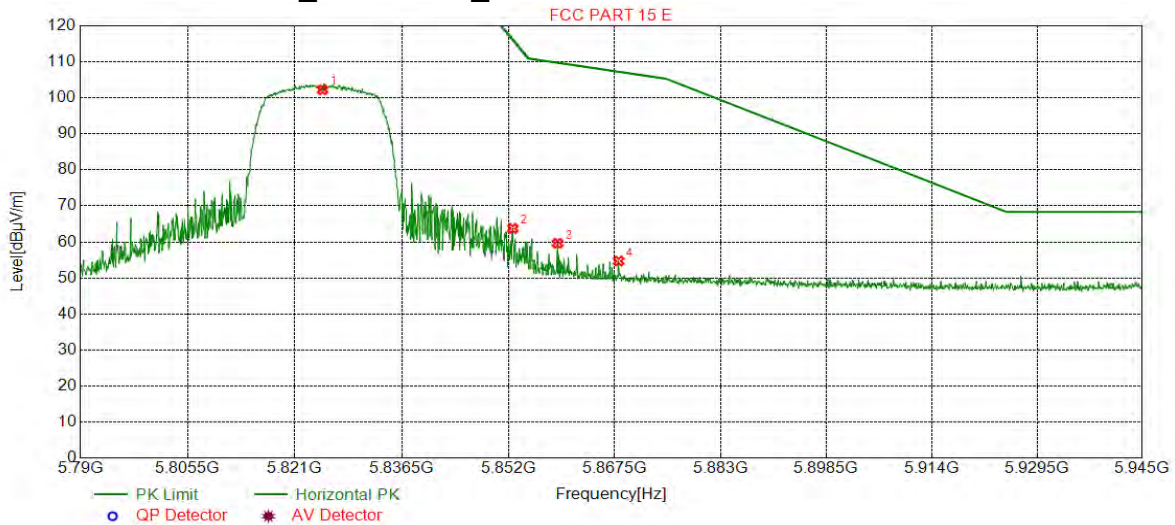


4.10.1.71 11AC20_165 ANT 1_ Horizontal

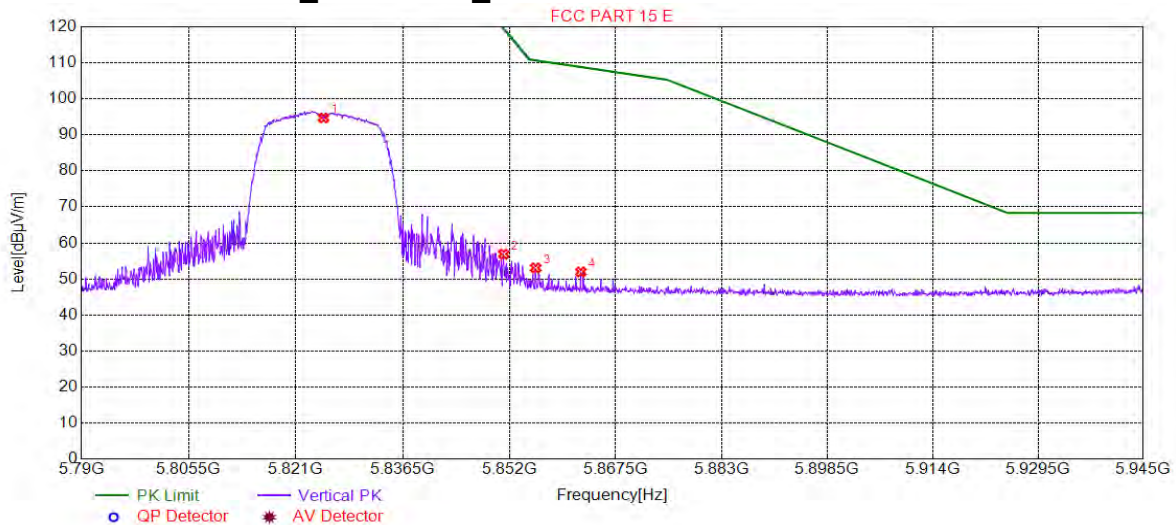


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	102.23	17.23	0.00	-102.23	150	27	Horizontal
2	5852.65	63.74	17.25	116.25	52.51	150	13	Horizontal
3	5859.16	59.63	17.23	109.73	50.10	150	345	Horizontal
4	5868.08	54.70	17.21	107.24	52.54	150	18	Horizontal



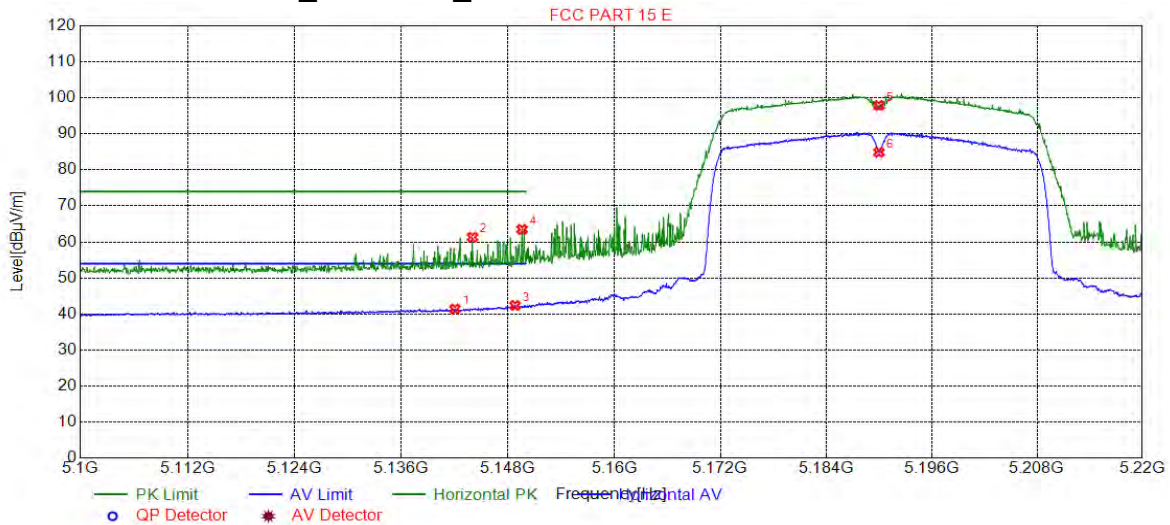
4.10.1.72 11AC20_165 ANT 1_Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	94.70	17.23	0.00	-94.70	150	184	Vertical
2	5851.17	56.90	17.26	119.61	62.71	150	198	Vertical
3	5855.83	53.06	17.24	110.67	57.61	150	188	Vertical
4	5862.42	51.95	17.22	108.82	56.87	150	184	Vertical

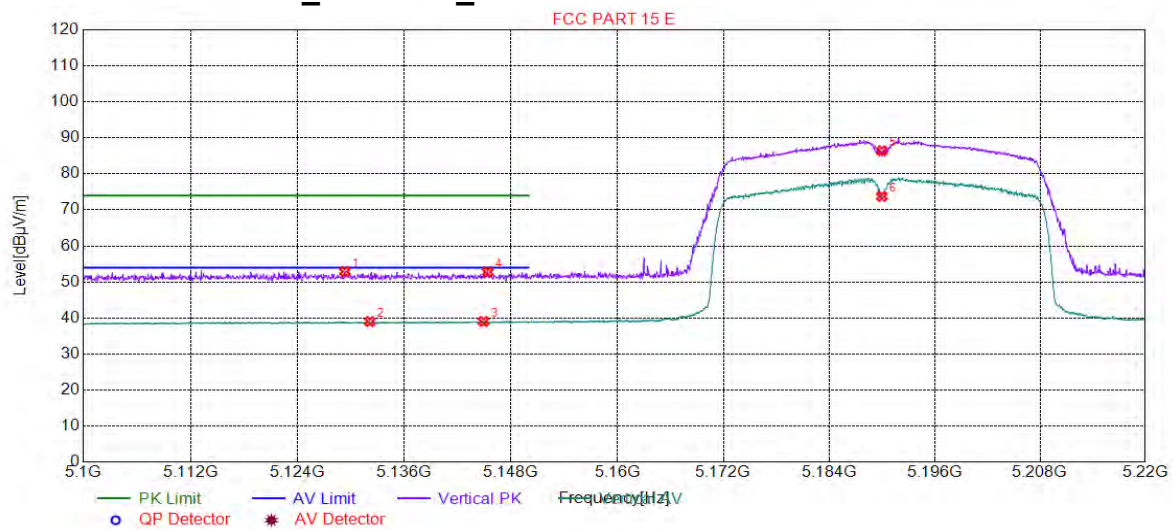
4.10.1.73 11AC40_38 ANT 1_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.02	41.38	15.45	54.00	12.62	150	0	Horizontal
2	5144.00	61.30	15.47	74.00	12.70	150	346	Horizontal
3	5148.80	42.36	15.51	54.00	11.64	150	1	Horizontal
4	5149.58	63.49	15.52	74.00	10.51	150	0	Horizontal
5	5190.00	97.88	15.58	0.00	-97.88	150	0	Horizontal
6	5190.00	84.89	15.58	0.00	-84.89	150	1	Horizontal

4.10.1.74 11AC40_38 ANT 1_ Vertical

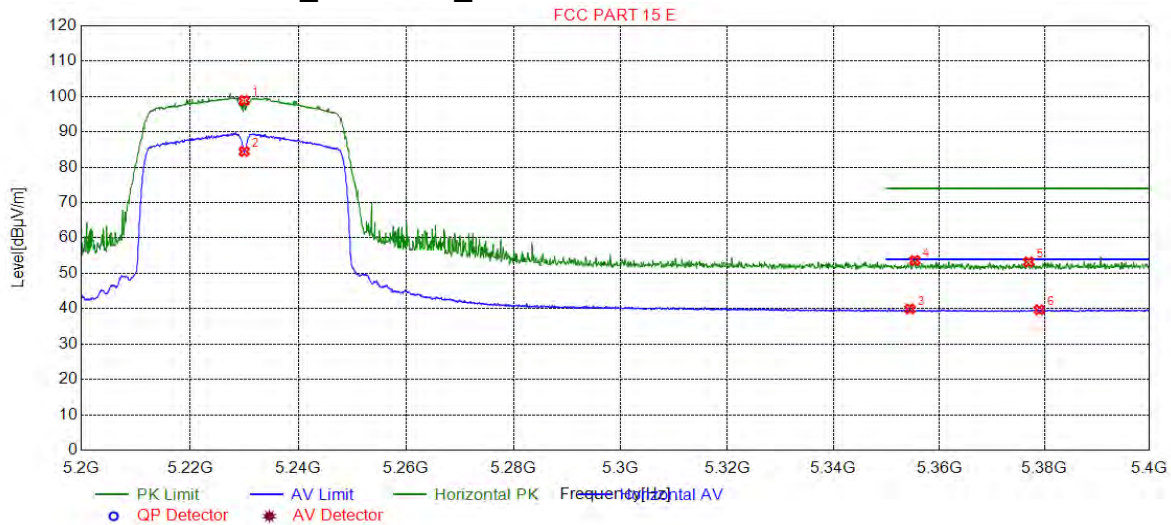


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.29	52.89	15.34	74.00	21.11	150	242	Vertical
2	5132.11	39.02	15.37	54.00	14.98	150	78	Vertical
3	5144.90	39.04	15.48	54.00	14.96	150	110	Vertical
4	5145.38	52.76	15.48	74.00	21.24	150	237	Vertical
5	5190.00	86.43	15.58	0.00	-86.43	150	67	Vertical
6	5190.00	73.77	15.58	0.00	-73.77	150	61	Vertical



4.10.1.75 11AC40_46 ANT 1_ Horizontal



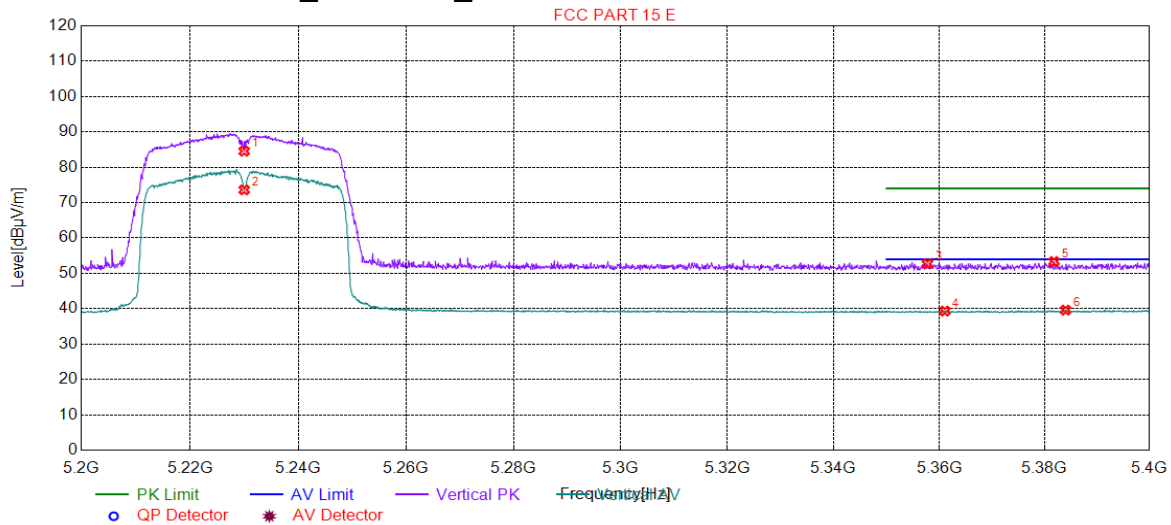
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	98.86	15.51	0.00	-98.86	150	0	Horizontal
2	5230.00	84.45	15.51	0.00	-84.45	150	0	Horizontal
3	5354.47	39.93	15.97	54.00	14.07	150	0	Horizontal
4	5355.37	53.66	15.97	74.00	20.34	150	0	Horizontal
5	5376.98	53.22	16.11	74.00	20.78	150	312	Horizontal
6	5378.98	39.70	16.12	54.00	14.30	150	16	Horizontal





4.10.1.76 11AC40_46 ANT 1_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	84.55	15.51	0.00	-84.55	150	204	Vertical
2	5230.00	73.61	15.51	0.00	-73.61	150	204	Vertical
3	5357.77	52.68	15.99	74.00	21.32	150	76	Vertical
4	5361.08	39.33	16.01	54.00	14.67	150	82	Vertical
5	5381.79	53.35	16.14	74.00	20.65	150	197	Vertical
6	5383.99	39.60	16.15	54.00	14.40	150	42	Vertical



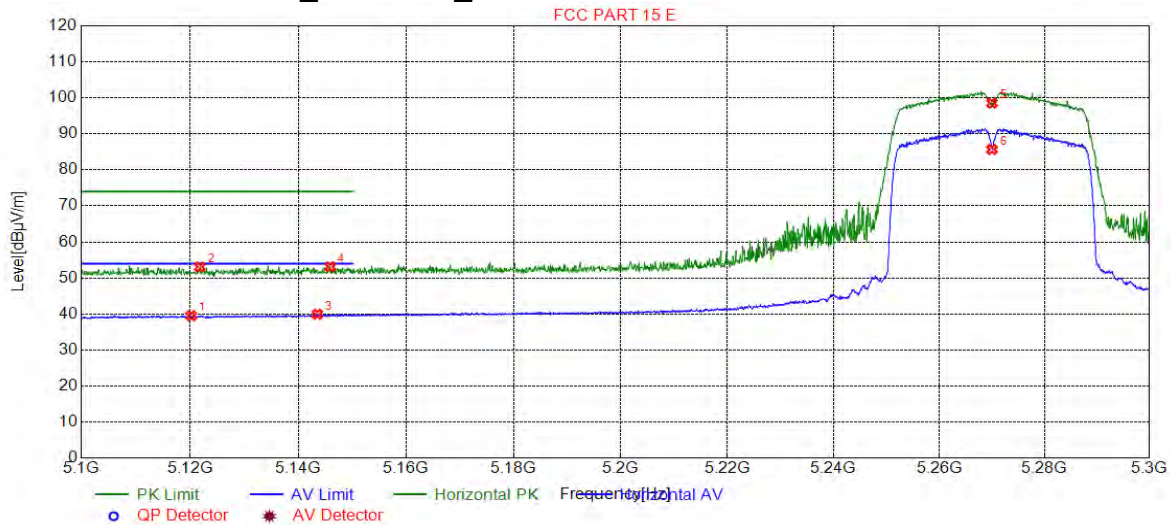
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4.10.1.77 11AC40_54 ANT 1_ Horizontal

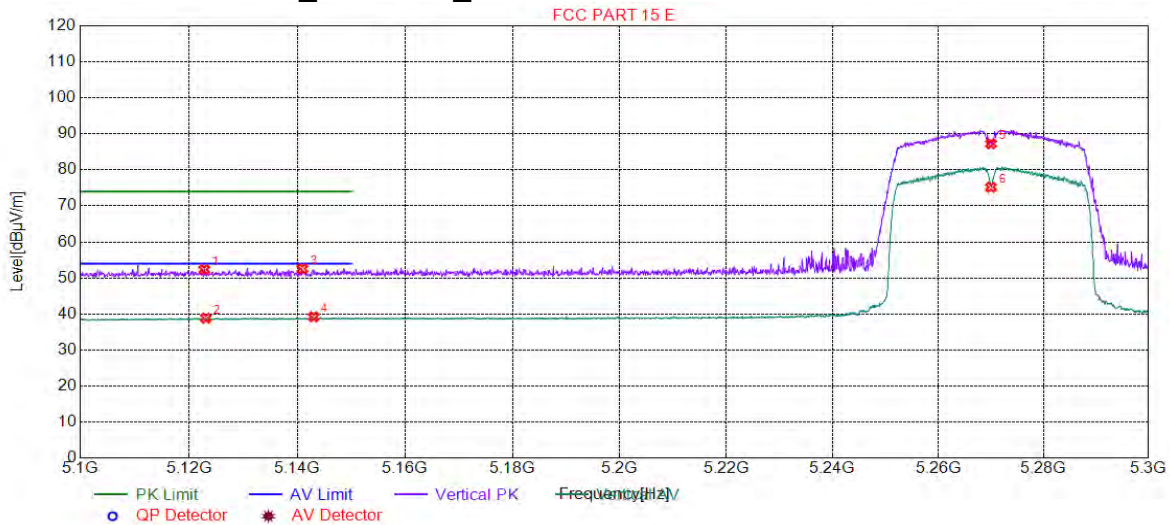


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.21	39.50	15.26	54.00	14.50	150	10	Horizontal
2	5121.81	53.05	15.28	74.00	20.95	150	24	Horizontal
3	5143.52	39.95	15.46	54.00	14.05	150	17	Horizontal
4	5145.92	53.10	15.48	74.00	20.90	150	344	Horizontal
5	5270.00	98.53	15.56	0.00	-98.53	150	344	Horizontal
6	5270.00	85.67	15.56	0.00	-85.67	150	10	Horizontal



4.10.1.78 11AC40_54 ANT 1_ Vertical

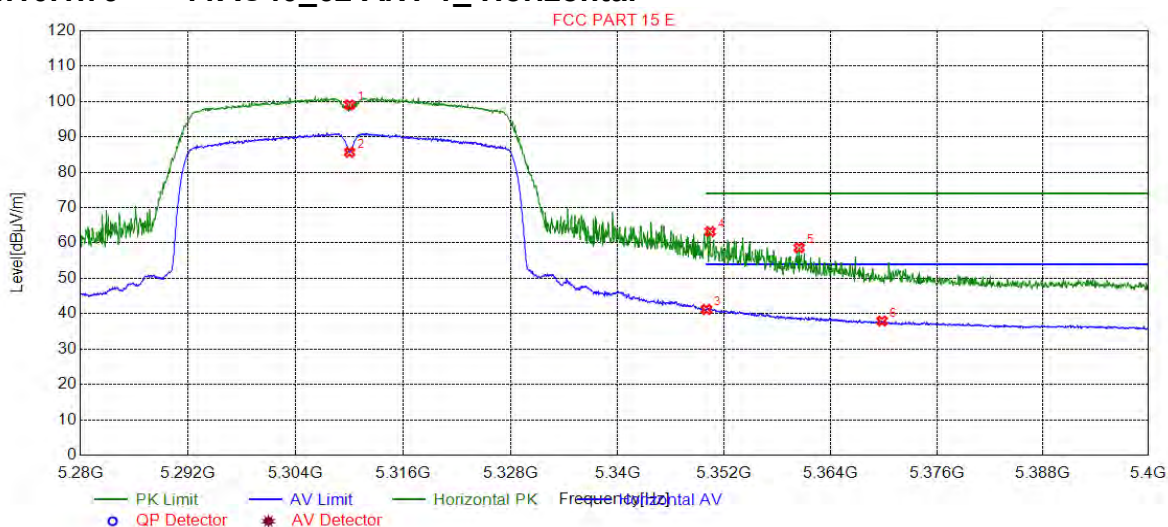


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.81	52.33	15.29	74.00	21.67	150	15	Vertical
2	5123.11	38.87	15.29	54.00	15.13	150	289	Vertical
3	5140.92	52.55	15.44	74.00	21.45	150	194	Vertical
4	5143.02	39.22	15.46	54.00	14.78	150	15	Vertical
5	5270.00	87.26	15.56	0.00	-87.26	150	70	Vertical
6	5270.00	75.19	15.56	0.00	-75.19	150	70	Vertical



4.10.1.79 11AC40_62 ANT 1_ Horizontal

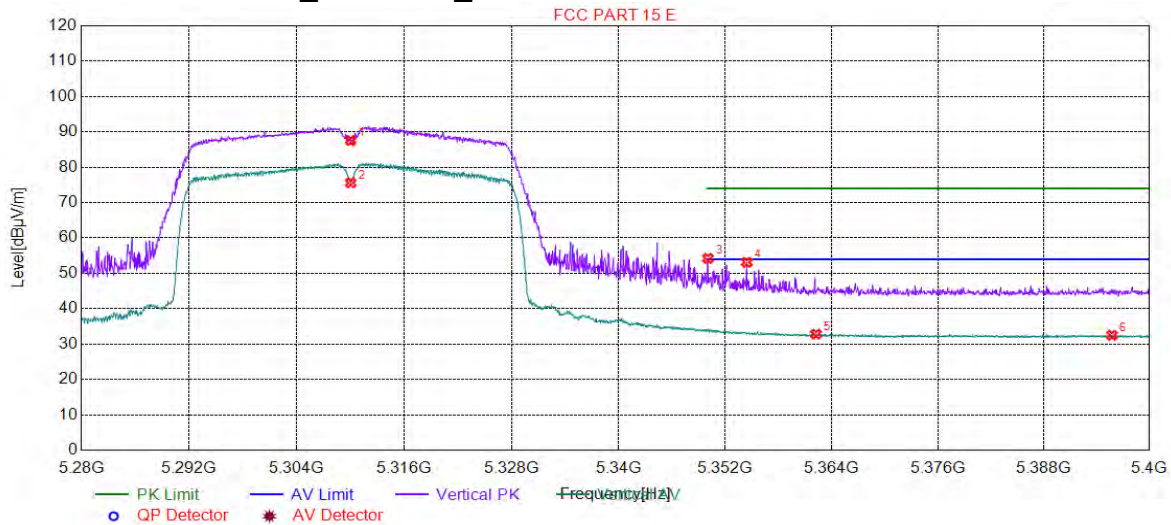


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	99.04	15.75	0.00	-99.04	150	344	Horizontal
2	5310.00	85.65	15.75	0.00	-85.65	150	4	Horizontal
3	5350.00	41.20	15.94	54.00	12.80	150	344	Horizontal
4	5350.41	63.21	15.94	74.00	10.79	150	344	Horizontal
5	5360.44	58.65	16.00	74.00	15.35	150	0	Horizontal
6	5369.80	37.95	16.06	54.00	16.05	150	0	Horizontal



4.10.1.80 11AC40_62 ANT 1_ Vertical

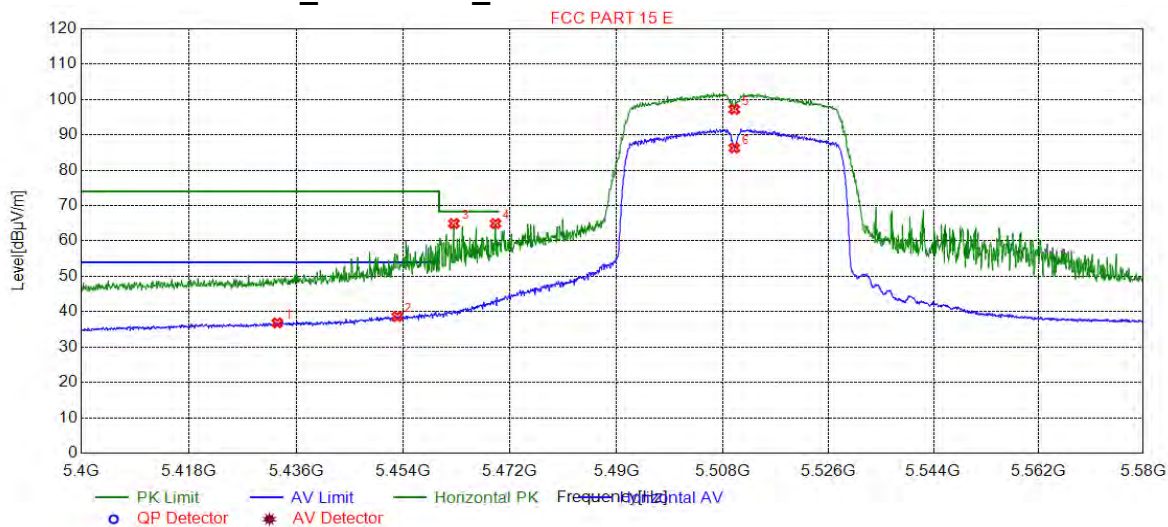


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	87.53	15.75	0.00	-87.53	150	76	Vertical
2	5310.00	75.62	15.75	0.00	-75.62	150	178	Vertical
3	5350.05	54.23	15.94	74.00	19.77	150	178	Vertical
4	5354.43	53.13	15.97	74.00	20.87	150	185	Vertical
5	5362.24	32.81	16.02	54.00	21.19	150	178	Vertical
6	5395.73	32.50	16.22	54.00	21.50	150	76	Vertical



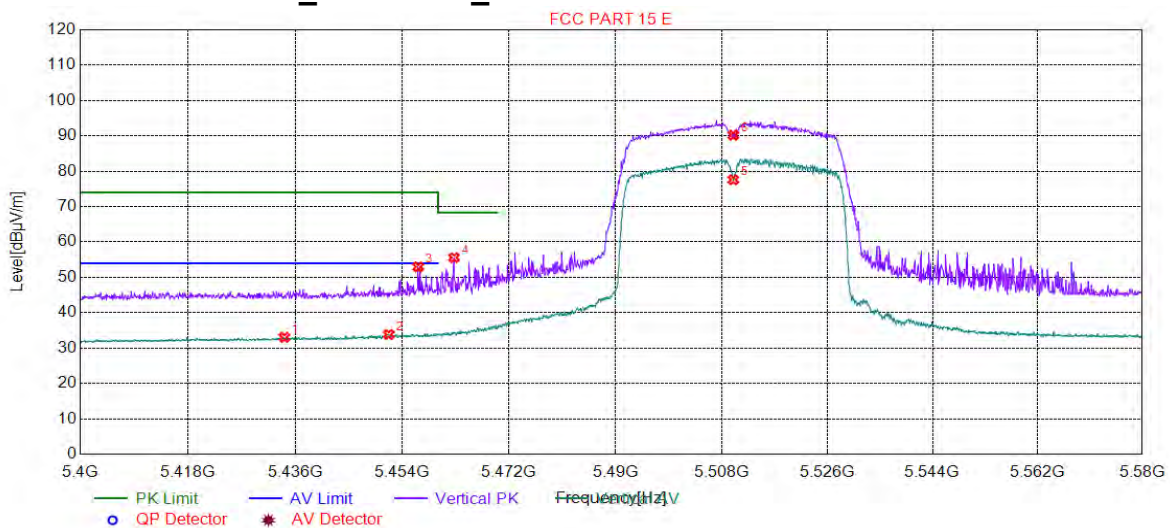
4.10.1.81 11AC40_102 ANT 1_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5432.77	36.84	16.25	54.00	17.16	150	10	Horizontal
2	5452.94	38.63	16.25	54.00	15.37	150	10	Horizontal
3	5462.49	64.95	16.25	68.30	3.35	150	4	Horizontal
4	5469.51	64.94	16.25	68.30	3.36	150	344	Horizontal
5	5510.00	97.22	16.28	0.00	-97.22	150	4	Horizontal
6	5510.00	86.29	16.28	0.00	-86.29	150	10	Horizontal

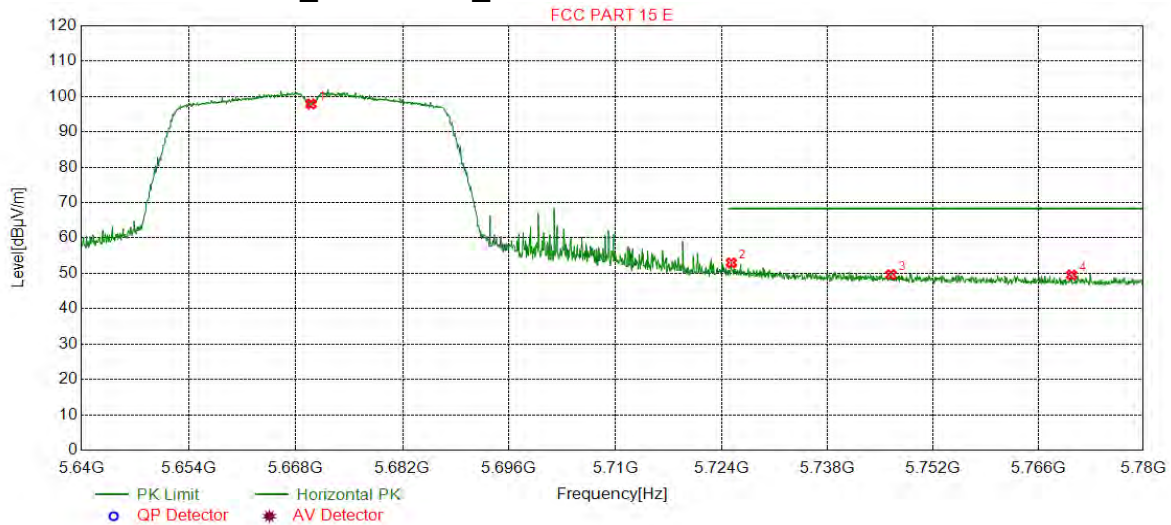
4.10.1.82 11AC40_102 ANT 1_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5434.12	33.04	16.25	54.00	20.96	150	192	Vertical
2	5451.68	33.84	16.25	54.00	20.16	150	192	Vertical
3	5456.63	52.94	16.25	74.00	21.06	150	185	Vertical
4	5462.67	55.58	16.25	68.30	12.72	150	192	Vertical
5	5510.00	77.58	16.28	0.00	-77.58	150	192	Vertical
6	5510.00	90.18	16.28	0.00	-90.18	150	199	Vertical

4.10.1.83 11AC40_134 ANT 1_ Horizontal

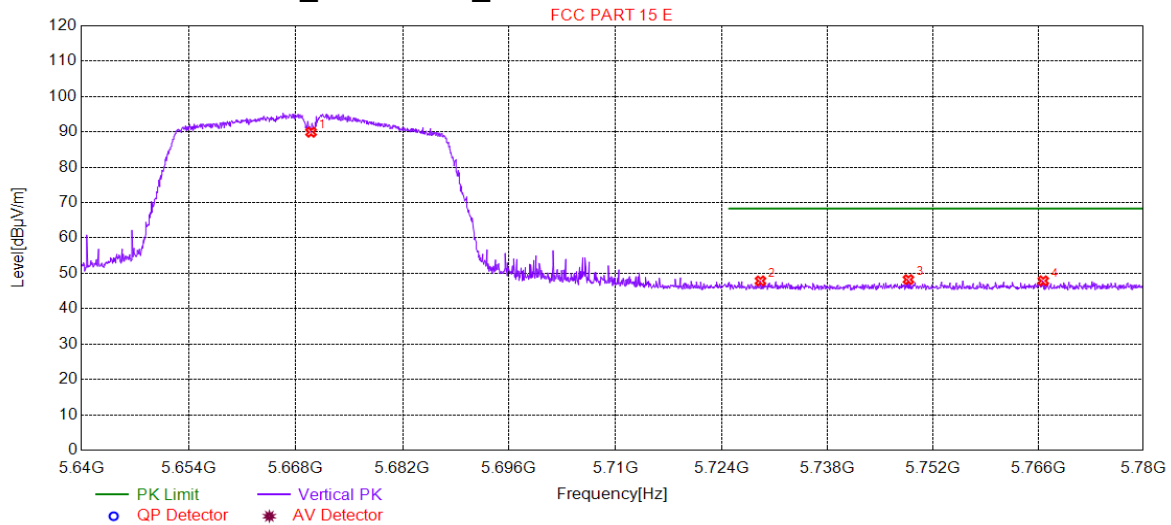


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	97.85	16.64	0.00	-97.85	150	19	Horizontal
2	5725.30	52.97	16.96	68.30	15.33	150	5	Horizontal
3	5746.45	49.62	17.10	68.30	18.68	150	10	Horizontal
4	5770.47	49.52	17.15	68.30	18.78	150	24	Horizontal



4.10.1.84 11AC40_134 ANT 1_ Vertical

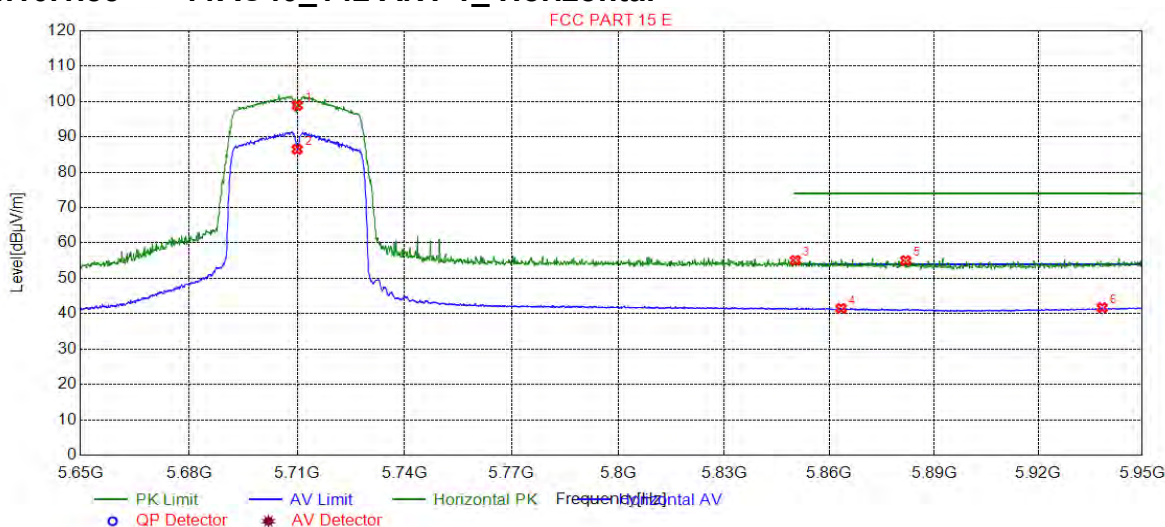


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	89.90	16.64	0.00	-89.90	150	184	Vertical
2	5729.15	47.87	16.99	68.30	20.43	150	184	Vertical
3	5748.76	48.24	17.11	68.30	20.06	150	184	Vertical
4	5766.69	47.89	17.14	68.30	20.41	150	152	Vertical



4.10.1.85 11AC40_142 ANT 1_ Horizontal

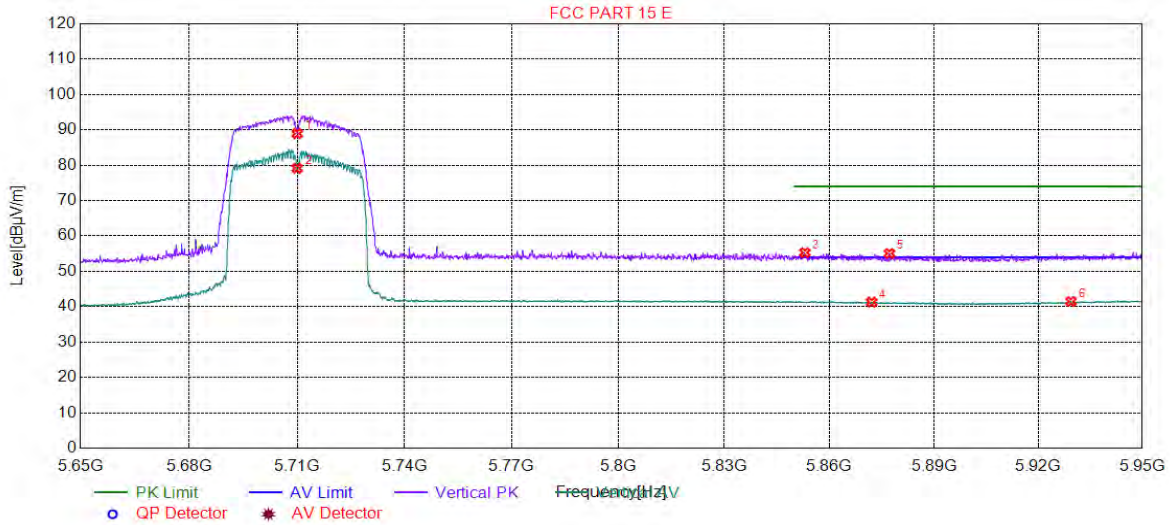


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.00	98.89	16.86	0.00	-98.89	150	12	Horizontal
2	5710.00	86.48	16.86	0.00	-86.48	150	12	Horizontal
3	5850.35	55.10	17.26	74.00	18.90	150	177	Horizontal
4	5863.40	41.54	17.22	54.00	12.46	150	39	Horizontal
5	5881.86	55.06	17.16	74.00	18.94	150	80	Horizontal
6	5938.44	41.73	17.70	54.00	12.27	150	5	Horizontal



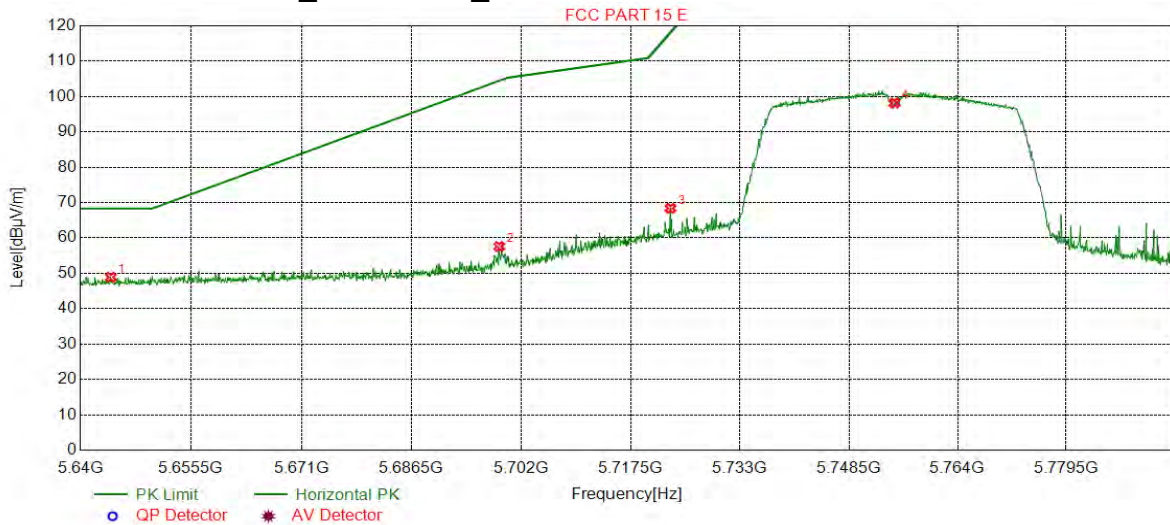
4.10.1.86 11AC40_142 ANT 1_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5710.00	88.95	16.86	0.00	-88.95	150	180	Vertical
2	5710.00	79.15	16.86	0.00	-79.15	150	180	Vertical
3	5853.05	55.31	17.25	74.00	18.69	150	186	Vertical
4	5872.11	41.28	17.19	54.00	12.72	150	173	Vertical
5	5877.21	55.06	17.18	74.00	18.94	150	268	Vertical
6	5929.43	41.50	17.56	54.00	12.50	150	310	Vertical

4.10.1.87 11AC40_151 ANT 1_ Horizontal

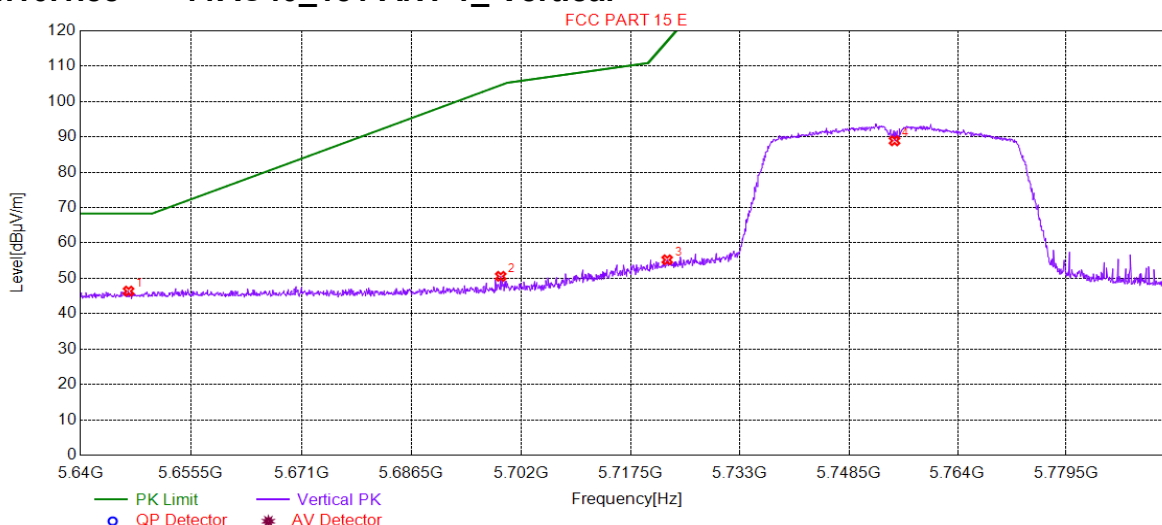


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.26	48.92	16.54	68.30	19.38	150	344	Horizontal
2	5698.85	57.59	16.79	104.45	46.86	150	14	Horizontal
3	5723.12	68.40	16.95	118.02	49.62	150	10	Horizontal
4	5755.00	98.16	17.13	0.00	-98.16	150	14	Horizontal



4.10.1.88 11AC40_151 ANT 1_ Vertical

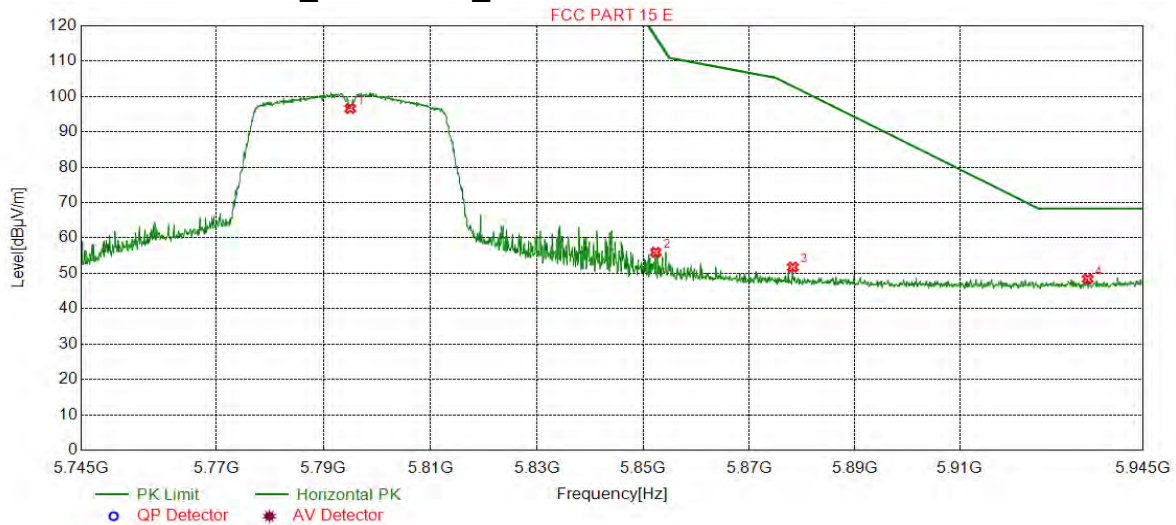


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.74	46.39	16.53	68.30	21.91	150	247	Vertical
2	5699.08	50.57	16.80	104.62	54.05	150	179	Vertical
3	5722.65	55.24	16.95	116.96	61.72	150	184	Vertical
4	5755.00	88.90	17.13	0.00	-88.90	150	242	Vertical



4.10.1.89 11AC40_159 ANT 1_ Horizontal

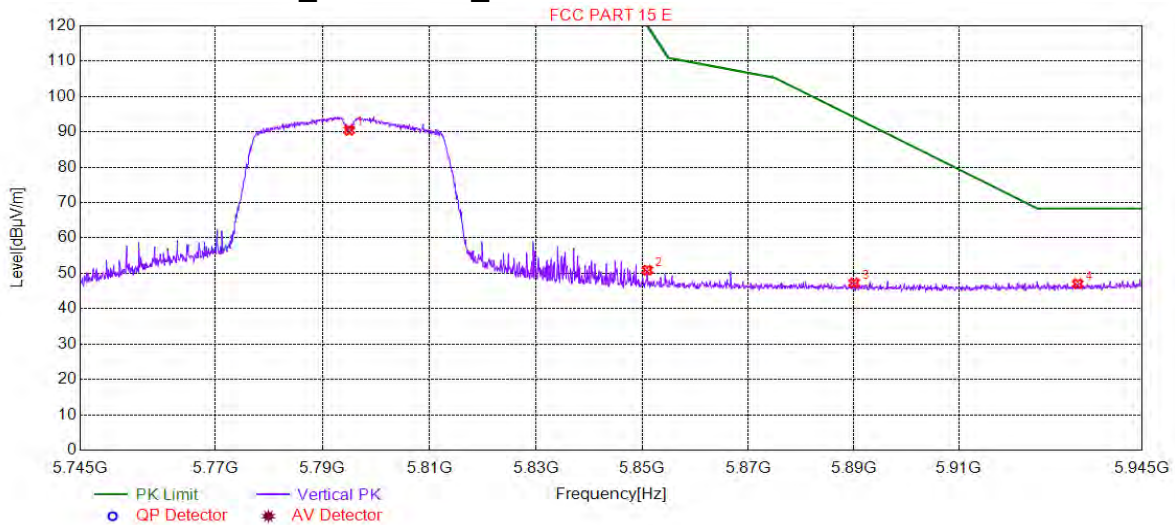


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	96.63	17.18	0.00	-96.63	150	15	Horizontal
2	5852.35	55.96	17.25	116.93	60.97	150	6	Horizontal
3	5878.26	51.76	17.18	102.88	51.12	150	2	Horizontal
4	5934.39	48.42	17.64	68.30	19.88	150	2	Horizontal



4.10.1.90 11AC40_159 ANT 1_ Vertical

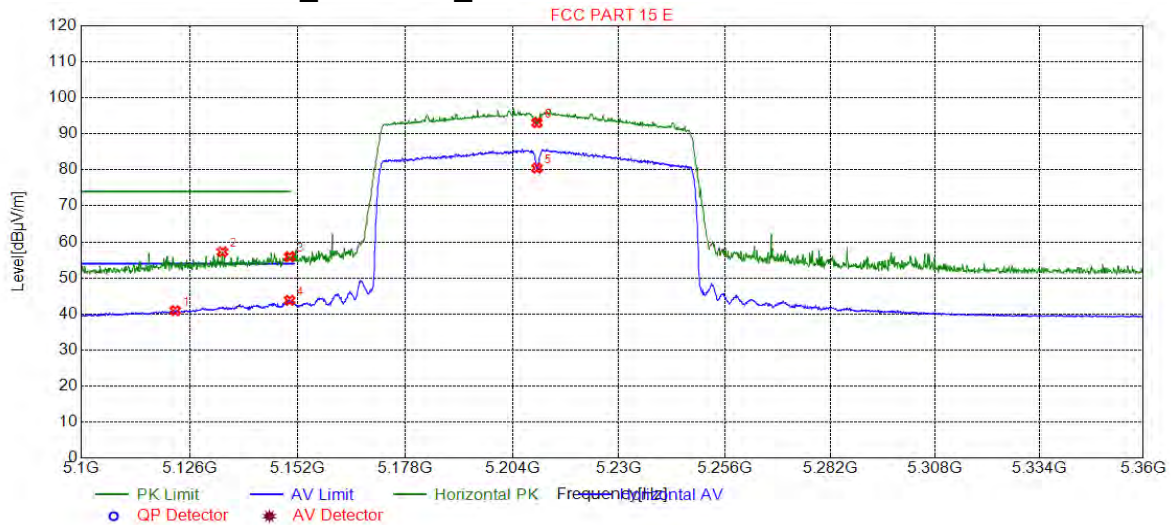


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	90.47	17.18	0.00	-90.47	150	189	Vertical
2	5850.95	50.91	17.26	120.13	69.22	150	208	Vertical
3	5890.07	47.26	17.14	94.15	46.89	150	43	Vertical
4	5932.69	47.05	17.61	68.30	21.25	150	277	Vertical



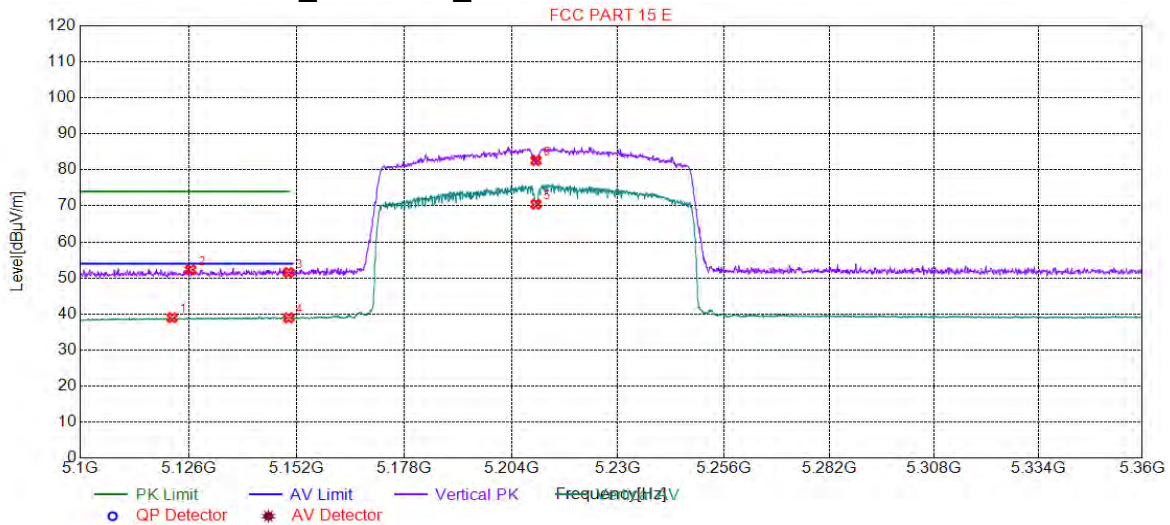
4.10.1.91 11AC80_42 ANT 1_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.50	40.94	15.28	54.00	13.06	150	3	Horizontal
2	5133.81	57.26	15.38	74.00	16.74	150	30	Horizontal
3	5150.00	55.89	15.52	0.00	-55.89	150	3	Horizontal
4	5150.00	43.78	15.52	54.00	10.22	150	0	Horizontal
5	5210.00	80.48	15.56	0.00	-80.48	150	0	Horizontal
6	5210.00	93.10	15.56	0.00	-93.10	150	344	Horizontal

4.10.1.92 11AC80_42 ANT 1_ Vertical

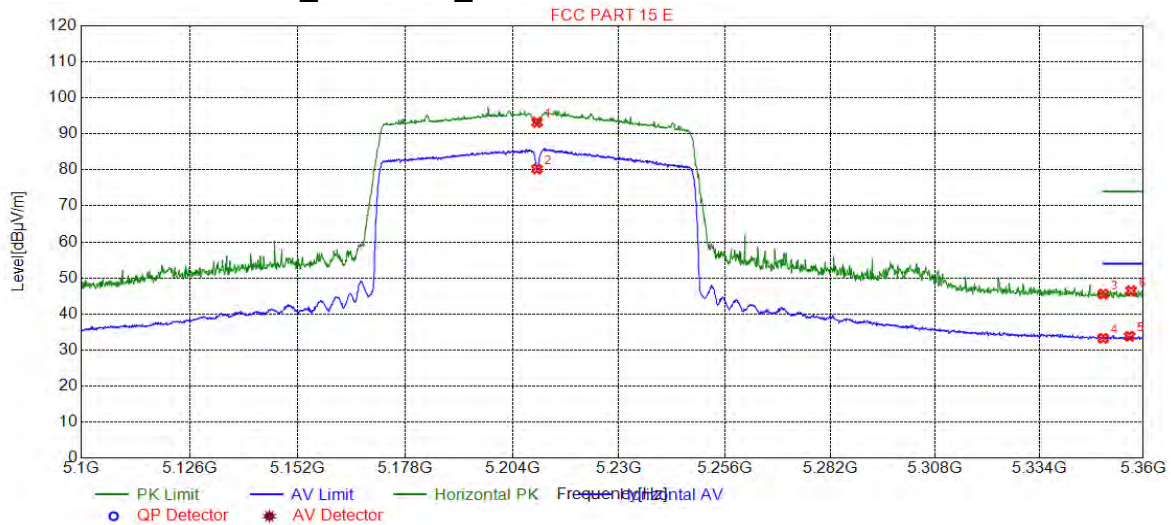


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.98	38.96	15.28	54.00	15.04	150	240	Vertical
2	5126.40	52.28	15.32	74.00	21.72	150	22	Vertical
3	5150.00	51.54	15.52	0.00	-51.54	150	233	Vertical
4	5150.00	38.94	15.52	54.00	15.06	150	16	Vertical
5	5210.00	70.47	15.56	0.00	-70.47	150	199	Vertical
6	5210.00	82.59	15.56	0.00	-82.59	150	206	Vertical



4.10.1.93 11AC80_42 ANT 1_ Horizontal

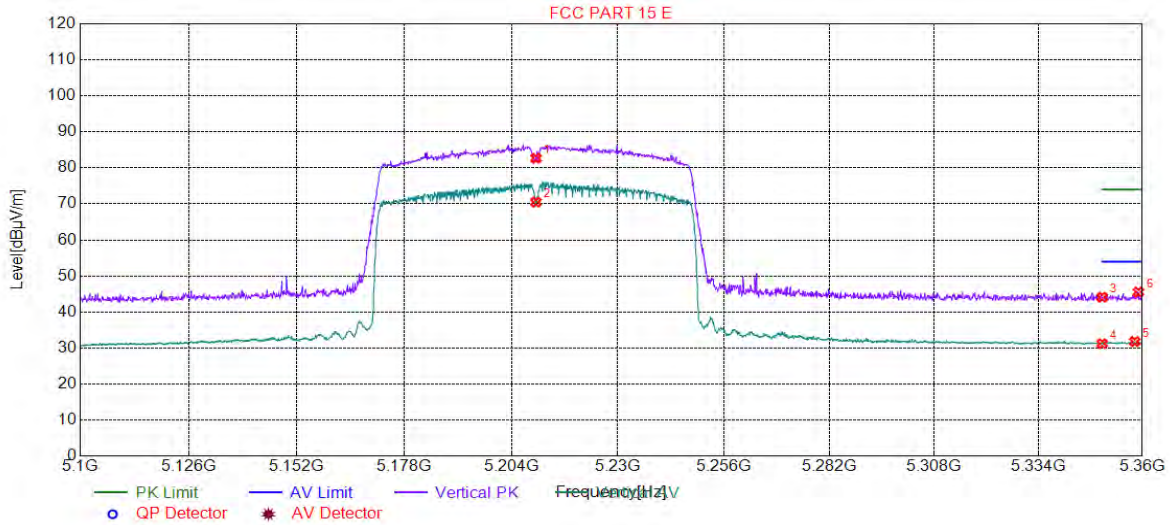


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	93.21	15.56	0.00	-93.21	150	2	Horizontal
2	5210.00	80.25	15.56	0.00	-80.25	150	0	Horizontal
3	5350.00	45.53	15.94	74.00	28.47	150	15	Horizontal
4	5350.00	33.25	15.94	54.00	20.75	150	2	Horizontal
5	5356.61	33.82	15.98	54.00	20.18	150	8	Horizontal
6	5357.00	46.44	15.98	74.00	27.56	150	345	Horizontal



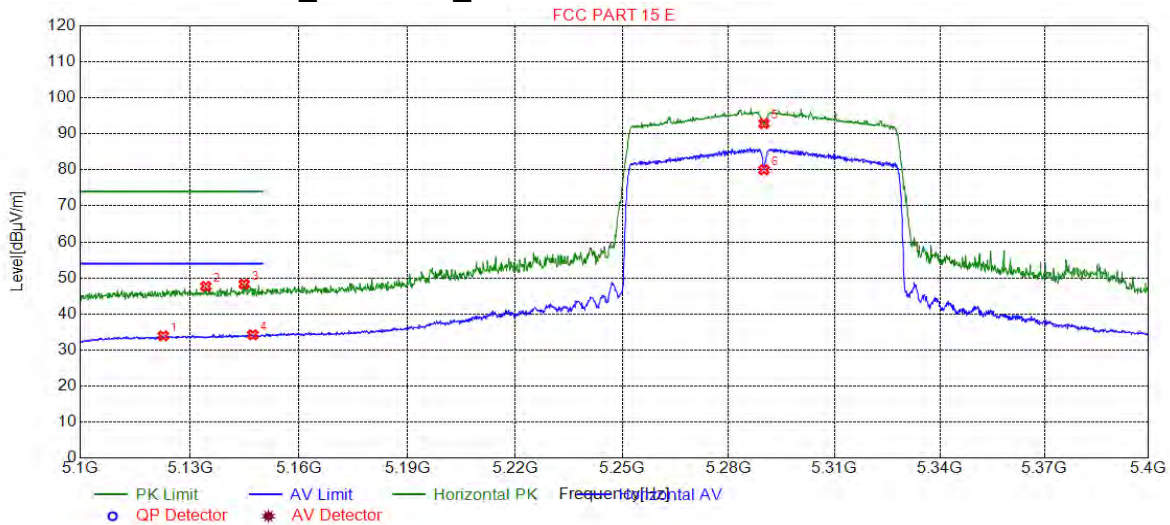
4.10.1.94 11AC80_42 ANT 1_ Vertical



Suspected List

Suspected List								
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1	5210.00	82.66	15.56	0.00	-82.66	150	201	Vertical
2	5210.00	70.51	15.56	0.00	-70.51	150	201	Vertical
3	5350.00	44.11	15.94	74.00	29.89	150	91	Vertical
4	5350.00	31.21	15.94	54.00	22.79	150	84	Vertical
5	5358.17	31.78	15.99	54.00	22.22	150	50	Vertical
6	5359.08	45.55	16.00	74.00	28.45	150	229	Vertical

4.10.1.95 11AC80_58 ANT 1_ Horizontal

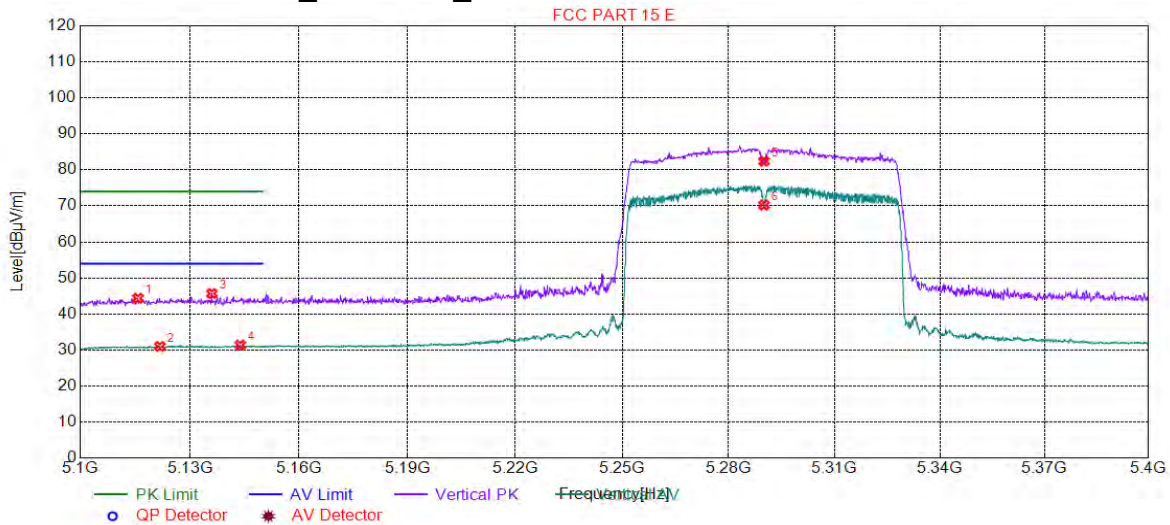


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.66	33.92	15.28	54.00	20.08	150	1	Horizontal
2	5134.36	47.66	15.39	74.00	26.34	150	4	Horizontal
3	5144.87	48.30	15.48	74.00	25.70	150	4	Horizontal
4	5147.27	34.21	15.50	54.00	19.79	150	345	Horizontal
5	5290.00	92.87	15.65	0.00	-92.87	150	1	Horizontal
6	5290.00	80.01	15.65	0.00	-80.01	150	345	Horizontal



4.10.1.96 11AC80_58 ANT 1_ Vertical

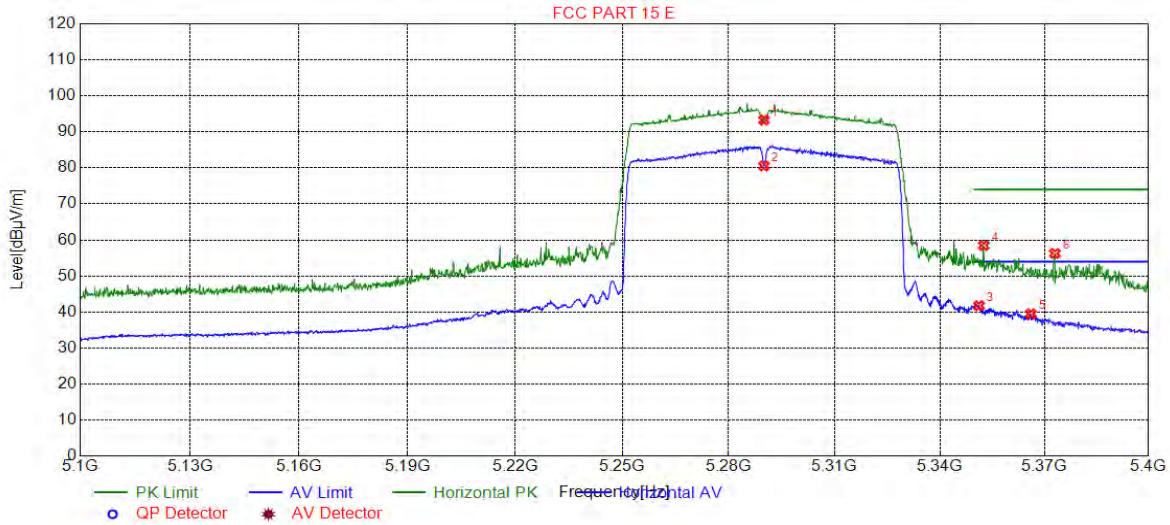


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5115.75	44.36	15.23	74.00	29.64	150	150	Vertical
2	5121.76	30.99	15.28	54.00	23.01	150	69	Vertical
3	5136.01	45.69	15.40	74.00	28.31	150	252	Vertical
4	5143.82	31.37	15.47	54.00	22.63	150	204	Vertical
5	5290.00	82.39	15.65	0.00	-82.39	150	198	Vertical
6	5290.00	70.24	15.65	0.00	-70.24	150	198	Vertical



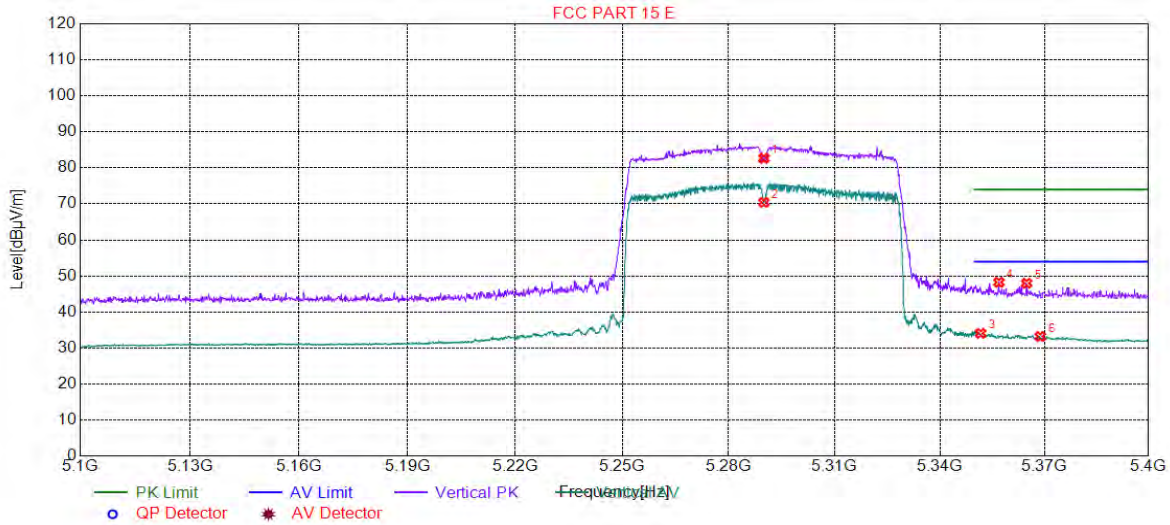
4.10.1.97 11AC80_58 ANT 1_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	93.29	15.65	0.00	-93.29	150	0	Horizontal
2	5290.00	80.52	15.65	0.00	-80.52	150	0	Horizontal
3	5351.22	41.75	15.95	54.00	12.25	150	4	Horizontal
4	5352.57	58.46	15.96	74.00	15.54	150	4	Horizontal
5	5366.08	39.48	16.04	54.00	14.52	150	4	Horizontal
6	5372.98	56.26	16.08	74.00	17.74	150	221	Horizontal

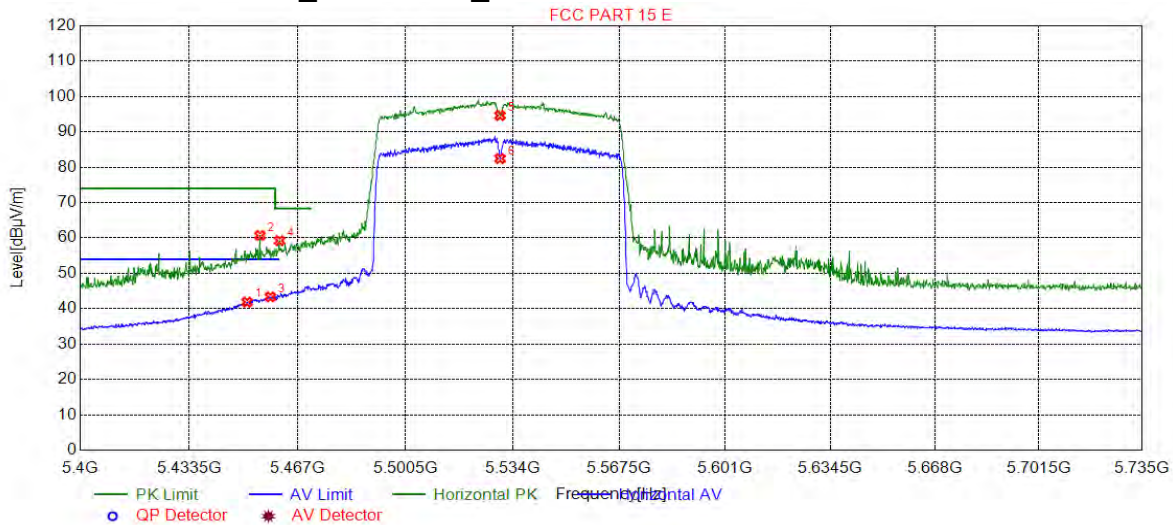
4.10.1.98 11AC80_58 ANT 1_ Vertical



Suspected List

Suspected List								
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1	5290.00	82.66	15.65	0.00	-82.66	150	198	Vertical
2	5290.00	70.40	15.65	0.00	-70.40	150	192	Vertical
3	5351.67	34.07	15.95	54.00	19.93	150	198	Vertical
4	5356.92	48.26	15.98	74.00	25.74	150	198	Vertical
5	5364.88	47.97	16.03	74.00	26.03	150	70	Vertical
6	5368.78	33.20	16.06	54.00	20.80	150	198	Vertical

4.10.1.99 11AC80_106 ANT 1_ Horizontal

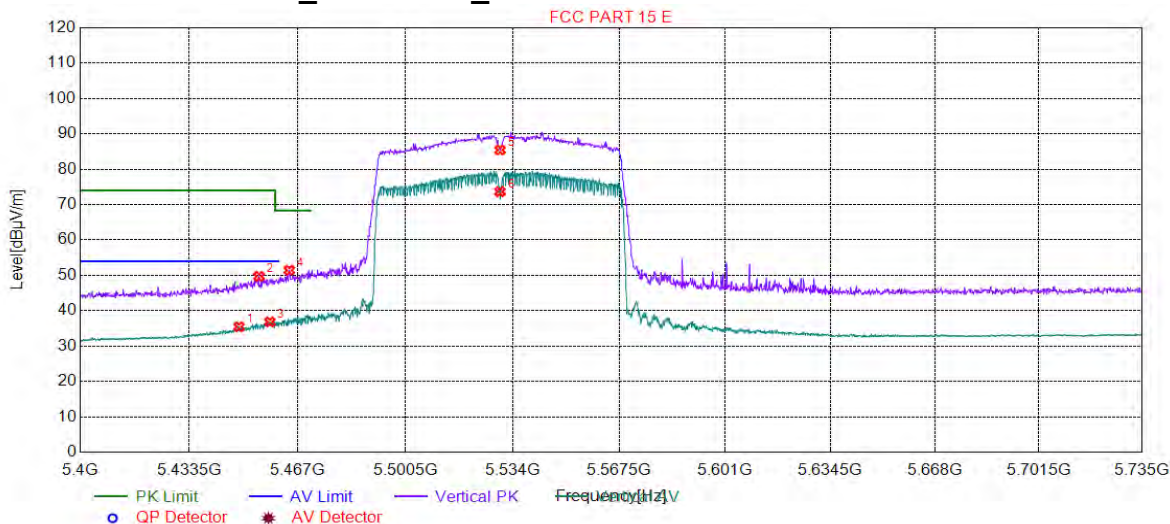


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5451.28	41.88	16.25	54.00	12.12	150	16	Horizontal
2	5455.30	60.73	16.25	74.00	13.27	150	16	Horizontal
3	5458.48	43.34	16.25	54.00	10.66	150	16	Horizontal
4	5461.33	59.25	16.25	68.30	9.05	150	16	Horizontal
5	5530.00	94.61	16.35	0.00	-94.61	150	23	Horizontal
6	5530.00	82.45	16.35	0.00	-82.45	150	9	Horizontal



4.10.1.100 11AC80_106 ANT 1_ Vertical

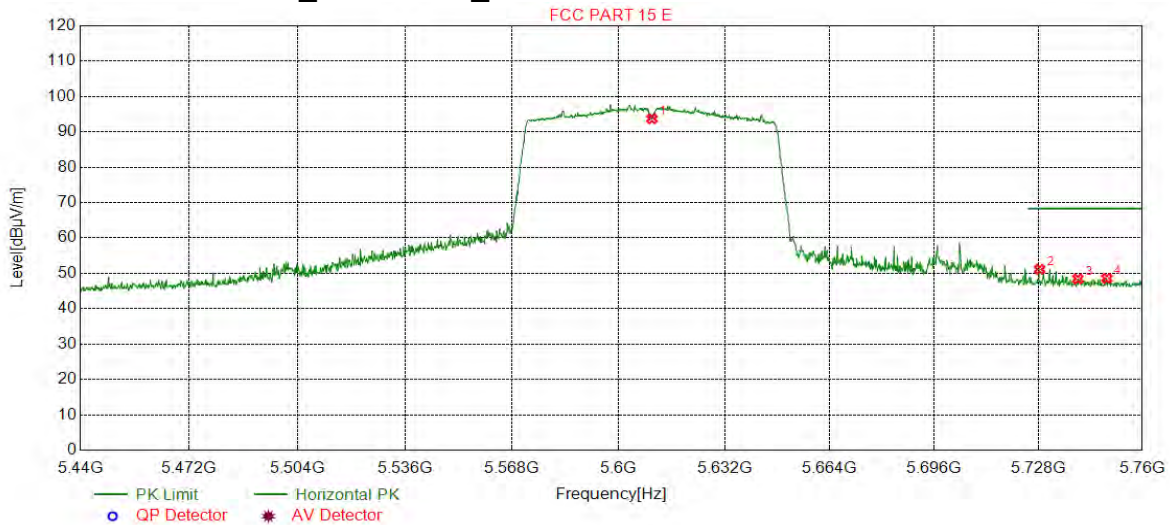


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5448.76	35.47	16.25	54.00	18.53	150	193	Vertical
2	5454.96	49.72	16.25	74.00	24.28	150	193	Vertical
3	5458.31	36.84	16.25	54.00	17.16	150	193	Vertical
4	5464.35	51.47	16.25	68.30	16.83	150	193	Vertical
5	5530.00	85.44	16.35	0.00	-85.44	150	193	Vertical
6	5530.00	73.65	16.35	0.00	-73.65	150	193	Vertical



4.10.1.101 11AC80_122 ANT 1_ Horizontal



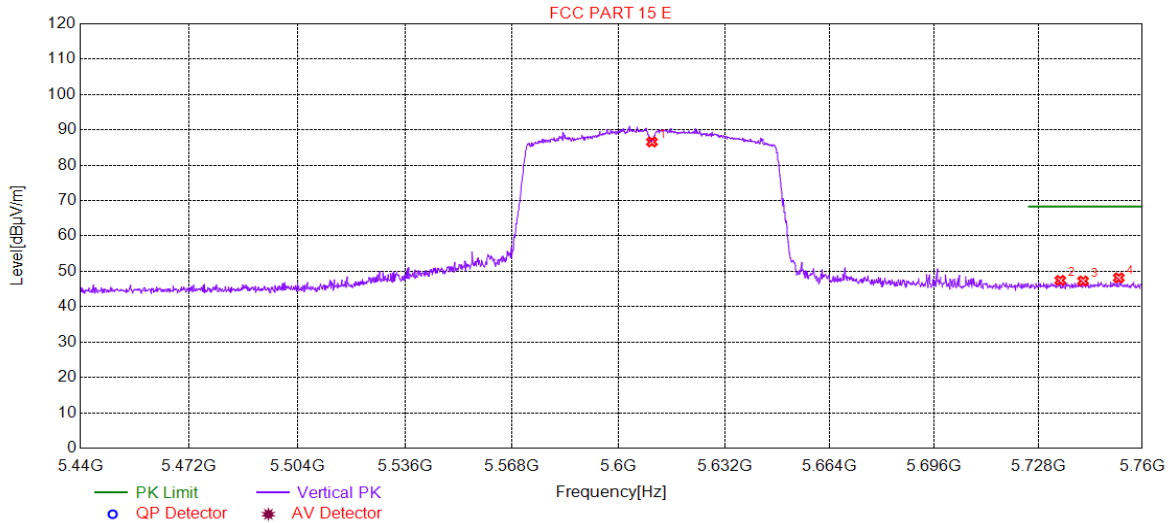
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	93.70	16.58	0.00	-93.70	150	226	Horizontal
2	5728.30	51.14	16.98	68.30	17.16	150	33	Horizontal
3	5740.15	48.43	17.06	68.30	19.87	150	331	Horizontal
4	5749.11	48.59	17.11	68.30	19.71	150	24	Horizontal





4.10.1.102 11AC80_122 ANT 1_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	86.60	16.58	0.00	-86.60	150	255	Vertical
2	5734.70	47.46	17.02	68.30	20.84	150	16	Vertical
3	5741.75	47.28	17.07	68.30	21.02	150	16	Vertical
4	5752.79	48.17	17.12	68.30	20.13	150	192	Vertical



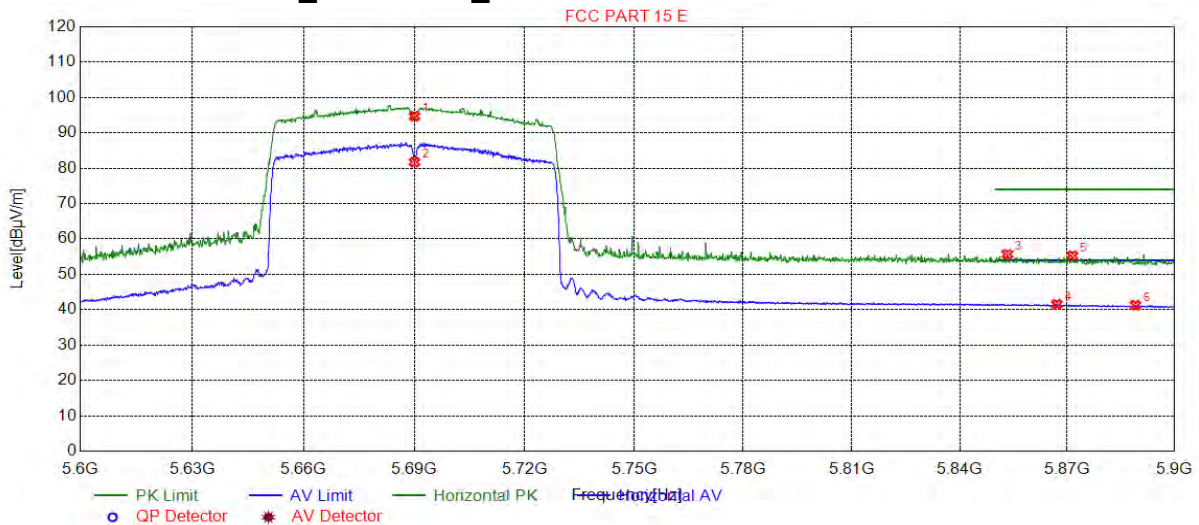
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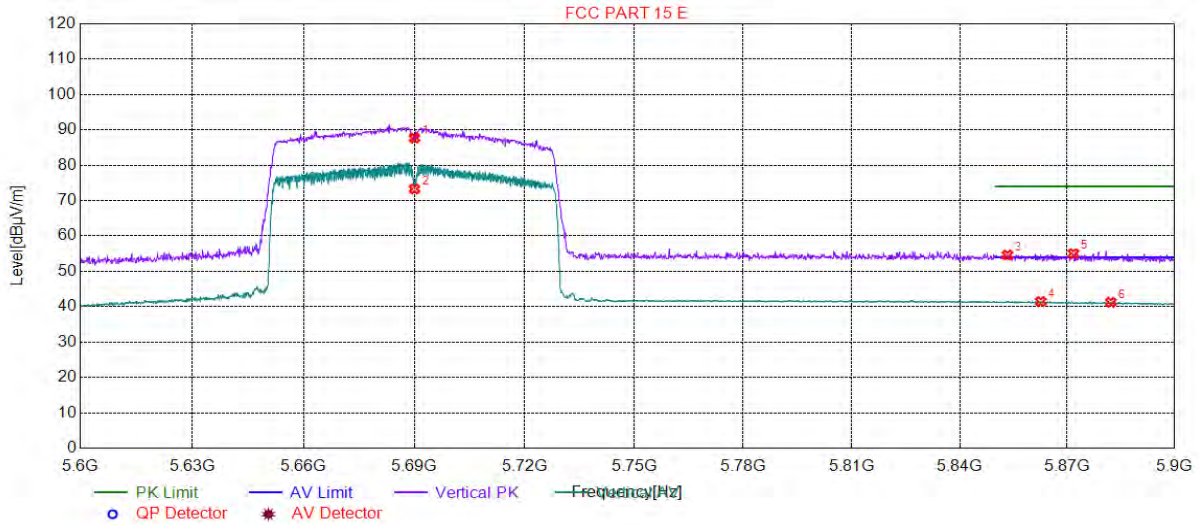
4.10.1.103 11AC80_138 ANT 1_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.00	94.70	16.75	0.00	-94.70	150	9	Horizontal
2	5690.00	81.74	16.75	0.00	-81.74	150	9	Horizontal
3	5853.32	55.68	17.25	74.00	18.32	150	154	Horizontal
4	5867.13	41.54	17.21	54.00	12.46	150	202	Horizontal
5	5871.48	55.30	17.20	74.00	18.70	150	126	Horizontal
6	5889.19	41.28	17.14	54.00	12.72	150	91	Horizontal

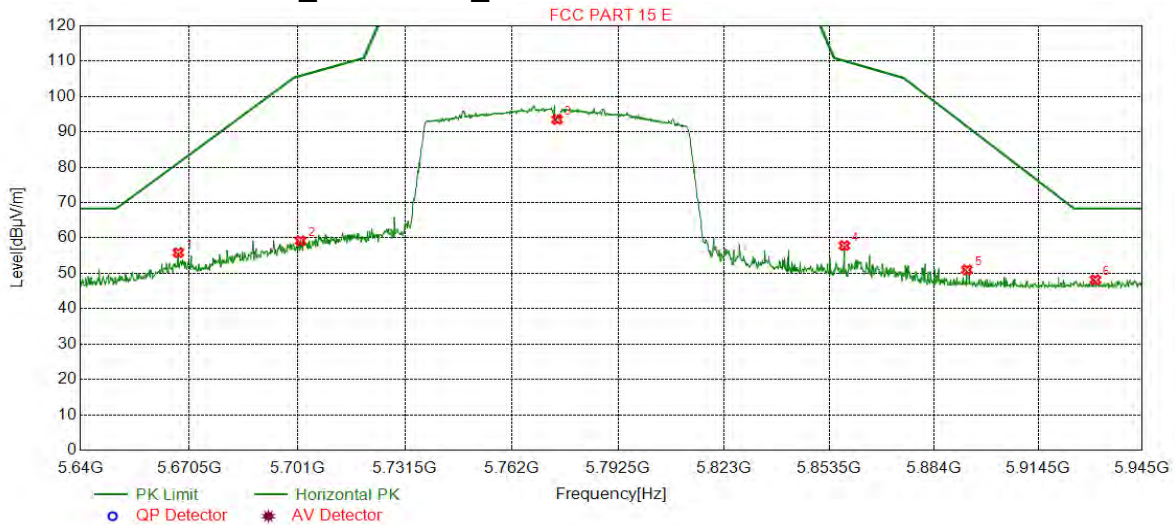
4.10.1.104 11AC80_138 ANT 1_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5690.00	87.71	16.75	0.00	-87.71	150	186	Vertical
2	5690.00	73.28	16.75	0.00	-73.28	150	220	Vertical
3	5853.32	54.63	17.25	74.00	19.37	150	56	Vertical
4	5862.63	41.47	17.22	54.00	12.53	150	338	Vertical
5	5871.78	55.05	17.19	74.00	18.95	150	186	Vertical
6	5882.29	41.27	17.16	54.00	12.73	150	269	Vertical

4.10.1.105 11AC80_155 ANT 1_ Horizontal

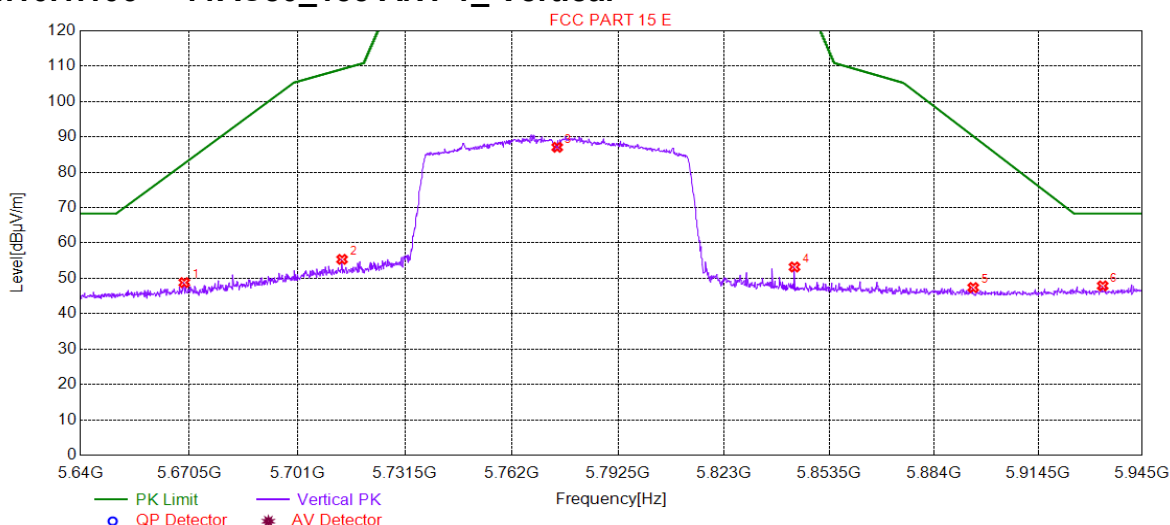


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5667.46	55.86	16.62	81.22	25.36	150	7	Horizontal
2	5701.94	59.22	16.81	105.84	46.62	150	34	Horizontal
3	5775.00	93.49	17.16	122.30	28.81	150	212	Horizontal
4	5857.87	57.82	17.24	110.09	52.27	150	344	Horizontal
5	5893.58	50.99	17.13	91.55	40.56	150	20	Horizontal
6	5931.26	48.19	17.59	68.30	20.11	150	344	Horizontal



4.10.1.106 11AC80_155 ANT 1_ Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5669.14	48.80	16.63	82.47	33.67	150	183	Vertical
2	5713.69	55.37	16.89	109.13	53.76	150	211	Vertical
3	5775.00	87.06	17.16	122.30	35.24	150	211	Vertical
4	5843.38	53.21	17.25	122.30	69.09	150	106	Vertical
5	5895.41	47.40	17.12	90.19	42.79	150	51	Vertical
6	5933.40	47.88	17.62	68.30	20.42	150	207	Vertical

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)	5180.006570	5825.003271
V max(V)	5180.014860	5825.005254
V min(V)	5180.021923	5825.005352
Max. Deviation Frequency	0.021923	0.005352
Max. Frequency Error (ppm)	4.232242	0.918782

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5825
-5	5180.001976	5825.001644
5	5180.007552	5825.009889
15	5180.013642	5825.015061
25	5180.022309	5825.015395
35	5180.028049	5825.019354
45	5180.035694	5825.021281
50	5180.040895	5825.023078
Max. Deviation Frequency	0.040895	0.023078
Max. Frequency Error (ppm)	7.894741	3.961895





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
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<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
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.		





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
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
<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.
Note 1: <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. Note 2: 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. Note 3: 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.	



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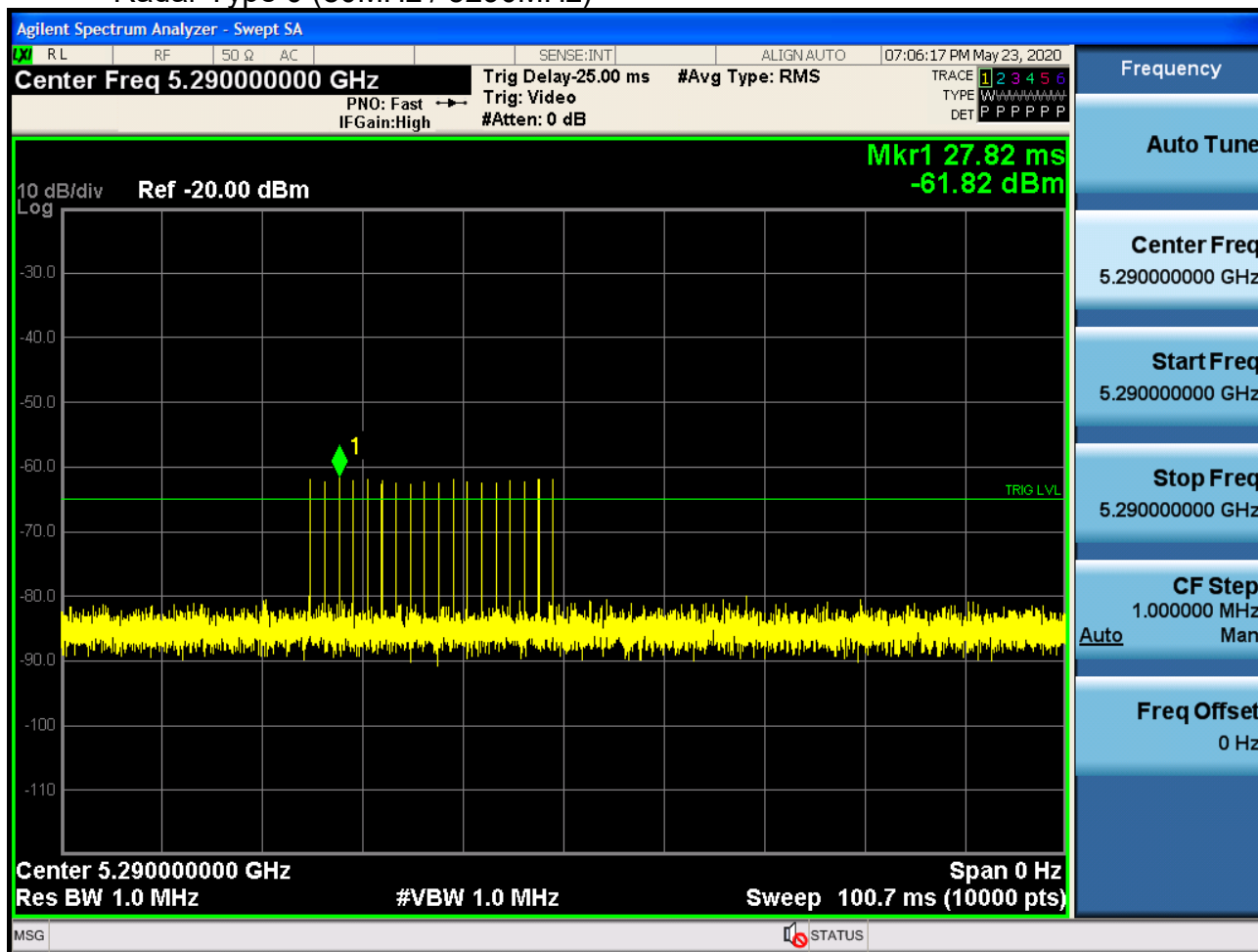
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4.12.4 Test plots

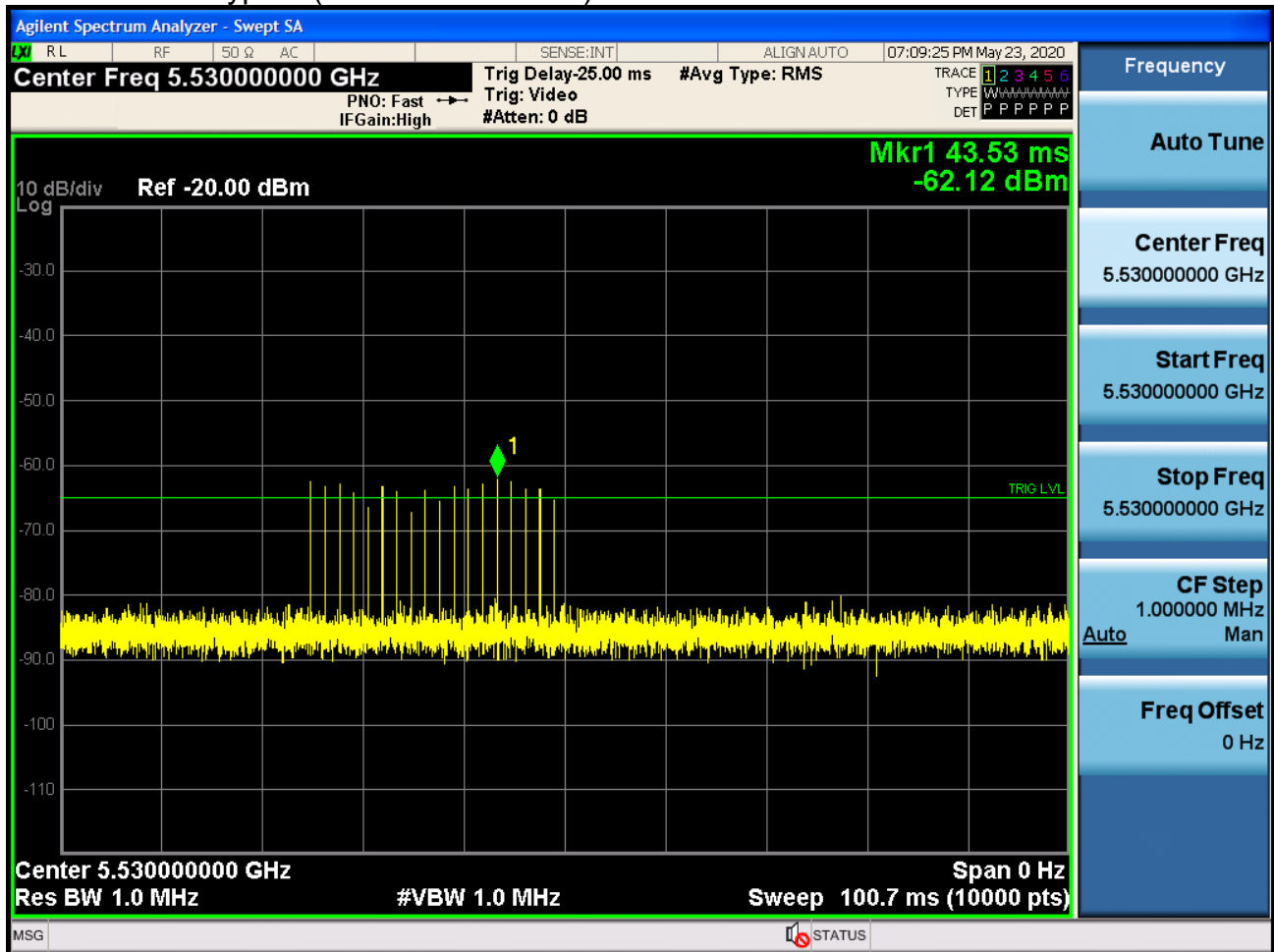
4.12.4.1 Radar Waveform Calibration Result

Radar Type 0 (80MHz / 5290MHz)





Radar Type 0 (80MHz / 5530MHz)



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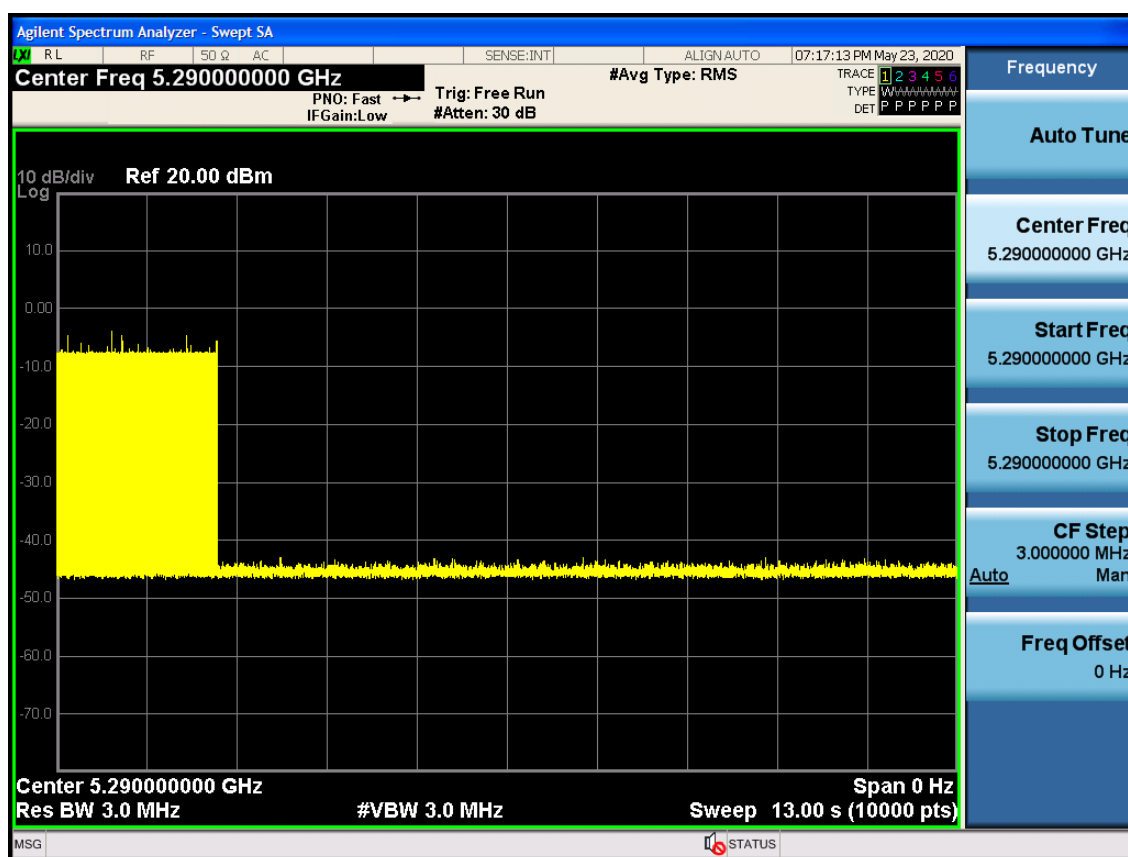


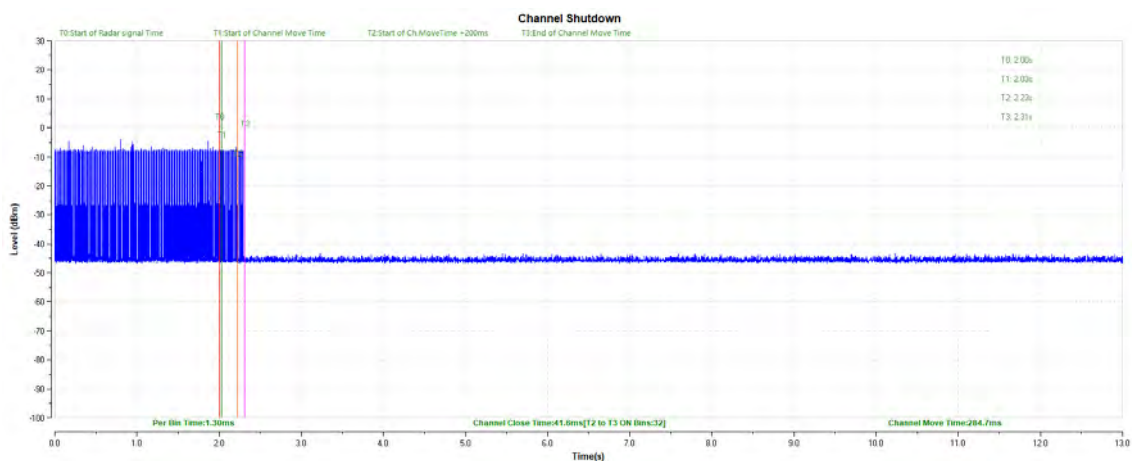
4.12.5 Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5290MHz	Channel Move Time	0s	<10s	Pass
	Channel Closing Transmission Time	41ms	<60ms	Pass
80MHz / 5530MHz	Channel Move Time	0s	<10s	Pass
	Channel Closing Transmission Time	40ms	<60ms	Pass

4.12.5.1 Test plots

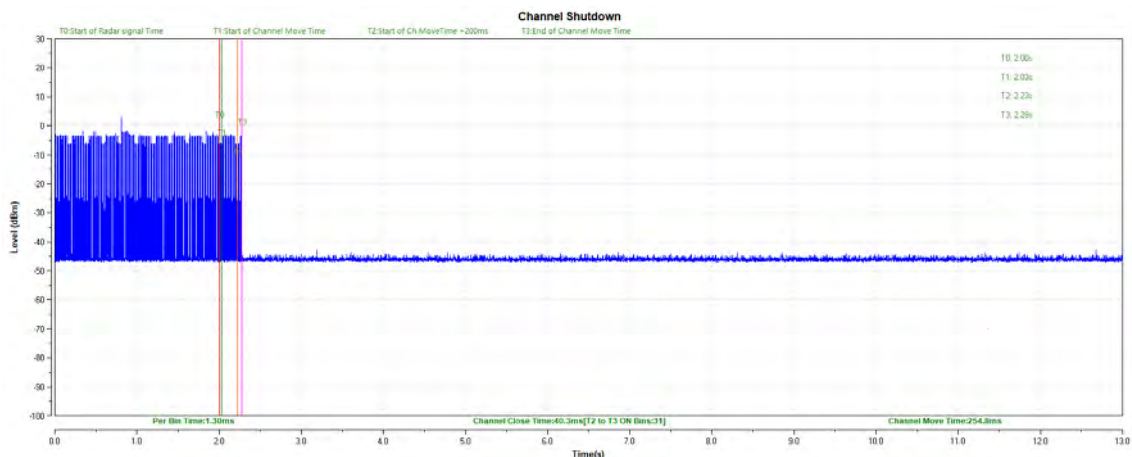
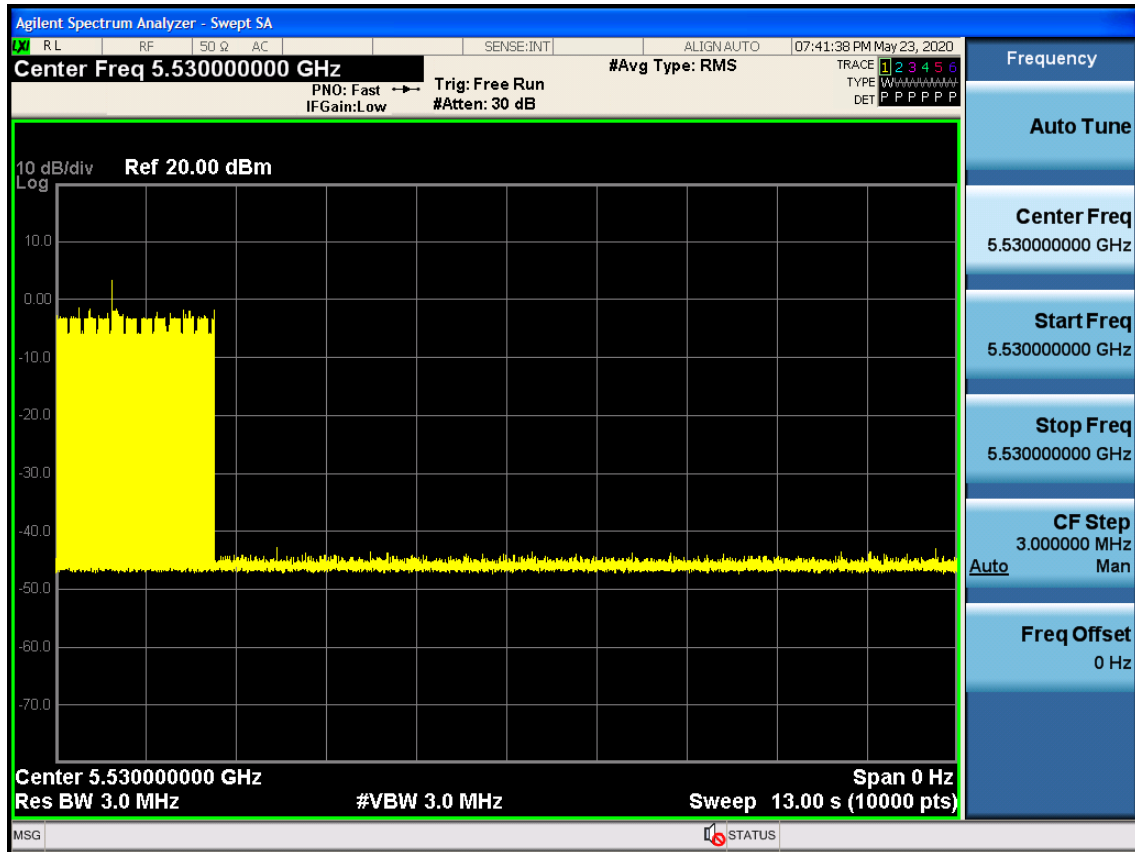
4.12.5.1.1 Test Bandwidth/Channel= 80MHz / 5290MHz







4.12.5.1.2 Test Bandwidth/ Channel =80MHz/5530MHz



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	RF power density, conducted	$\pm 2.84\text{dB}$
3	Spurious emissions, conducted	$\pm 0.75\text{dB}$
4	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-25GHz)
5	Conduct emission test	$\pm 3.12\text{ dB}$ (9KHz- 30MHz)
6	Temperature test	$\pm 1^{\circ}\text{C}$
7	Humidity test	$\pm 3\%$
8	DC and low frequency voltages	$\pm 0.5\%$





6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/3/2	2021/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2020/2/11	2021/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2020/2/11	2021/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2019/7/14	2020/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
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	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A





RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (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	2020/3/2	2021/3/1

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2020/3/2	2021/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDNA-0118-352810	SEM005-05	2019/7/14	2020/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2019/10/20	2020/10/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020/3/2	2021/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11

7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2020/50001.

The End



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