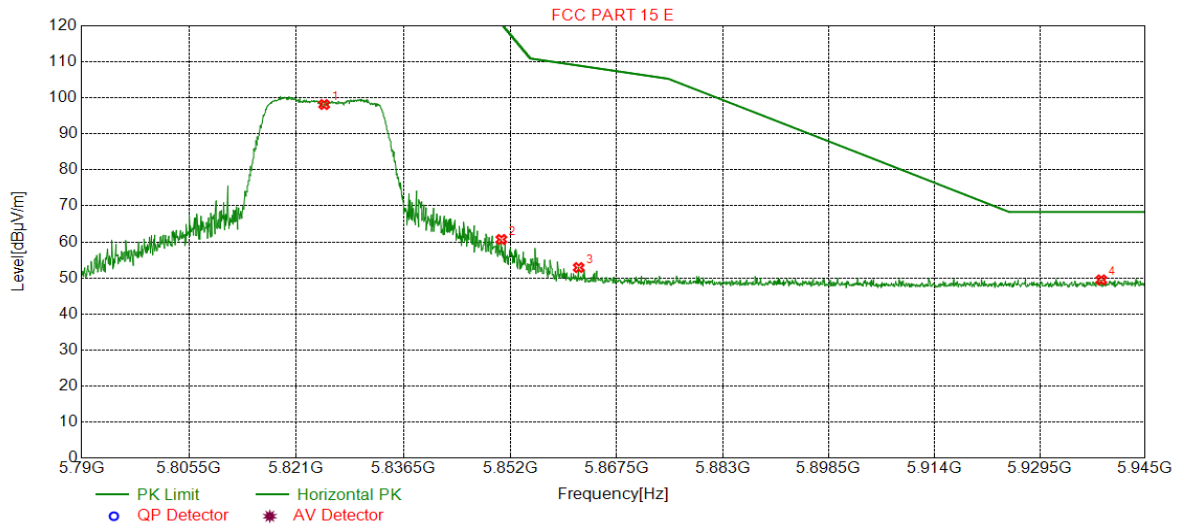


4.4.1.64 11AC20_MIMO_165 _ Horizontal



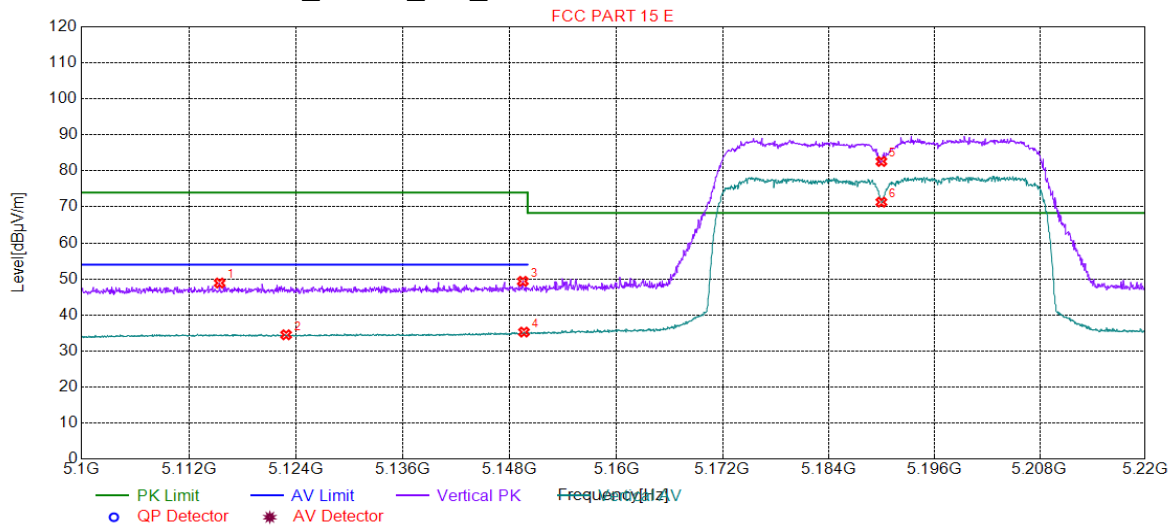
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.0000	98.14	8.82	0.00	-98.14	150	62	Horizontal
2	5850.7129	60.69	8.89	120.67	59.98	150	97	Horizontal
3	5861.9560	52.89	8.93	108.95	56.06	150	69	Horizontal
4	5938.5643	49.47	9.16	68.30	18.83	150	225	Horizontal



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4.4.1.65 11AC40_MIMO_38_Vertical

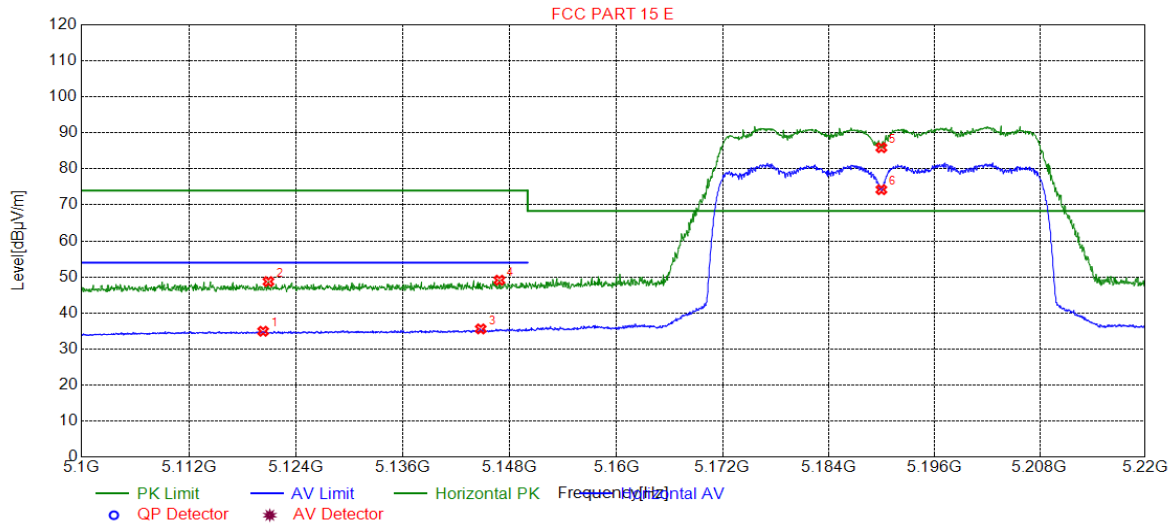


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5115.4277	48.87	7.50	74.00	25.13	150	157	Vertical
2	5122.8714	34.51	7.51	54.00	19.49	150	18	Vertical
3	5149.4647	49.35	7.55	74.00	24.65	150	31	Vertical
4	5149.5848	35.25	7.55	54.00	18.75	150	43	Vertical
5	5190.0000	82.61	7.62	68.30	-14.31	150	43	Vertical
6	5190.0000	71.32	7.62	0.00	-71.32	150	37	Vertical



4.4.1.66 11AC40_MIMO_38_Horizontal

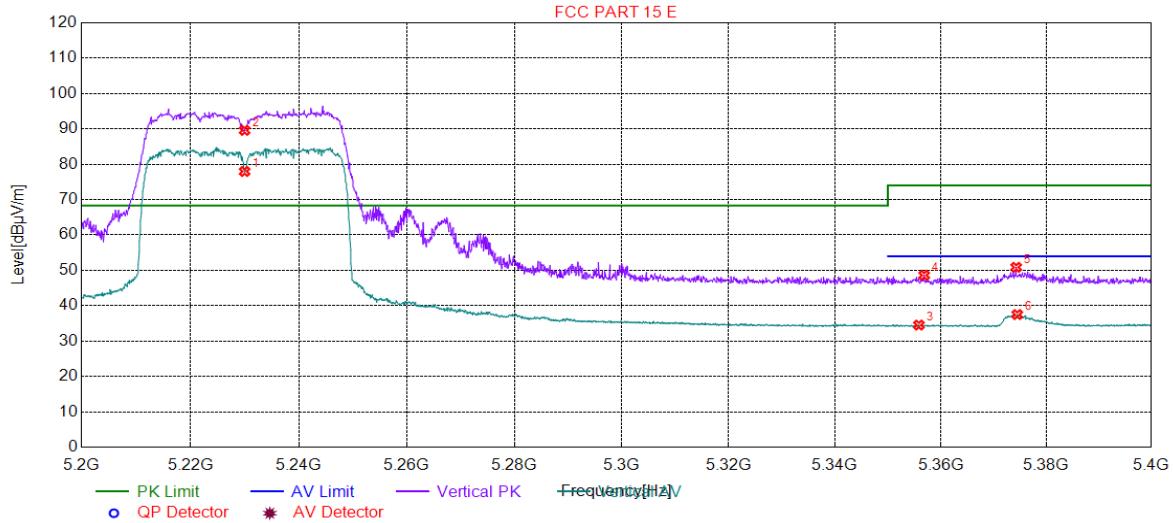


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.2901	34.93	7.50	54.00	19.07	150	342	Horizontal
2	5120.8904	48.72	7.51	74.00	25.28	150	73	Horizontal
3	5144.7224	35.58	7.55	54.00	18.42	150	233	Horizontal
4	5146.8234	49.10	7.55	74.00	24.90	150	252	Horizontal
5	5190.0000	85.89	7.62	68.30	-17.59	150	342	Horizontal
6	5190.0000	74.23	7.62	0.00	-74.23	150	233	Horizontal



4.4.1.67 11AC40_MIMO_46_Verical



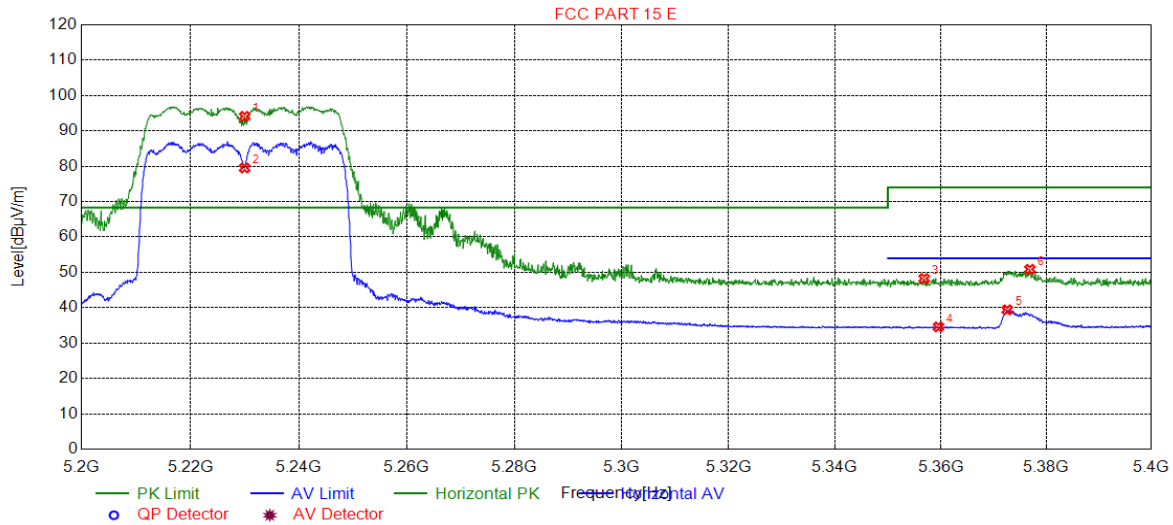
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	77.95	7.67	0.00	-77.95	150	31	Vertical
2	5230.0000	89.58	7.67	68.30	-21.28	150	37	Vertical
3	5355.8779	34.53	7.85	54.00	19.47	150	278	Vertical
4	5356.8784	48.61	7.85	74.00	25.39	150	43	Vertical
5	5374.2871	50.86	7.89	74.00	23.14	150	49	Vertical
6	5374.4872	37.50	7.89	54.00	16.50	150	43	Vertical



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4.4.1.68 11AC40_MIMO_46_Horizontal

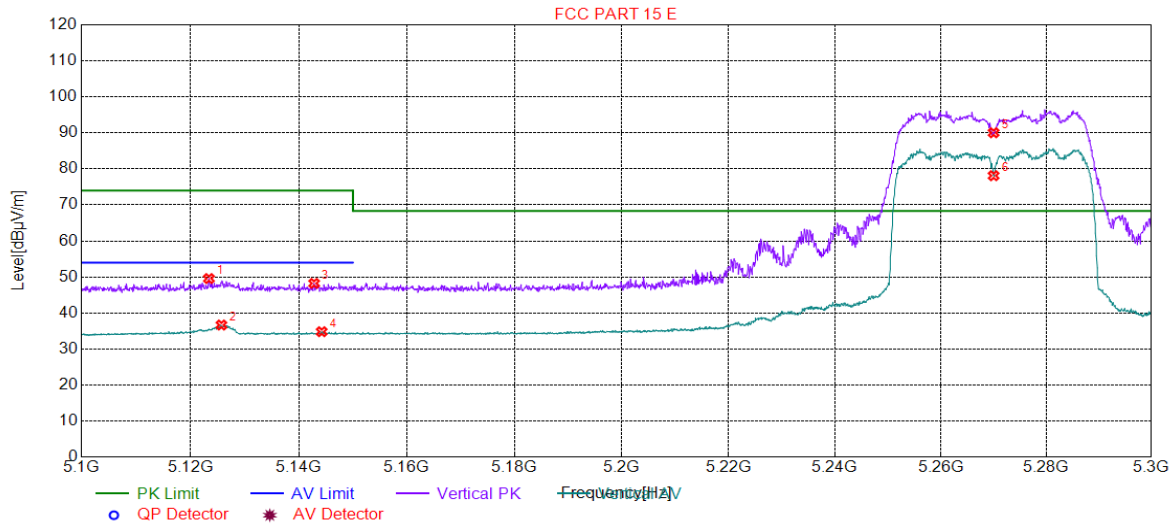


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.0000	94.12	7.67	68.30	-25.82	150	232	Horizontal
2	5230.0000	79.51	7.67	0.00	-79.51	150	238	Horizontal
3	5356.8784	48.26	7.85	74.00	25.74	150	30	Horizontal
4	5359.5798	34.59	7.86	54.00	19.41	150	206	Horizontal
5	5372.5863	39.40	7.89	54.00	14.60	150	213	Horizontal
6	5376.8884	50.86	7.89	74.00	23.14	150	75	Horizontal



4.4.1.69 11AC40_MIMO_54_Veritical



Suspected List

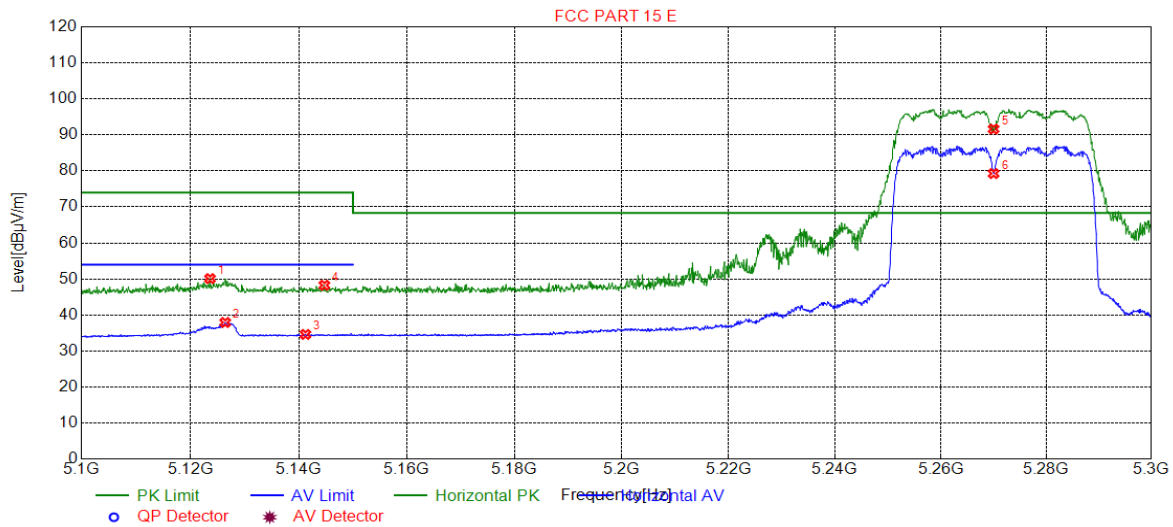
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5123.4117	49.56	7.51	74.00	24.44	150	57	Vertical
2	5125.7129	36.66	7.51	54.00	17.34	150	38	Vertical
3	5142.8214	48.22	7.54	74.00	25.78	150	32	Vertical
4	5144.2221	34.81	7.55	54.00	19.19	150	188	Vertical
5	5270.0000	90.03	7.71	68.30	-21.73	150	38	Vertical
6	5270.0000	78.11	7.71	0.00	-78.11	150	38	Vertical



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4.4.1.70 11AC40_MIMO_54_Horizontal



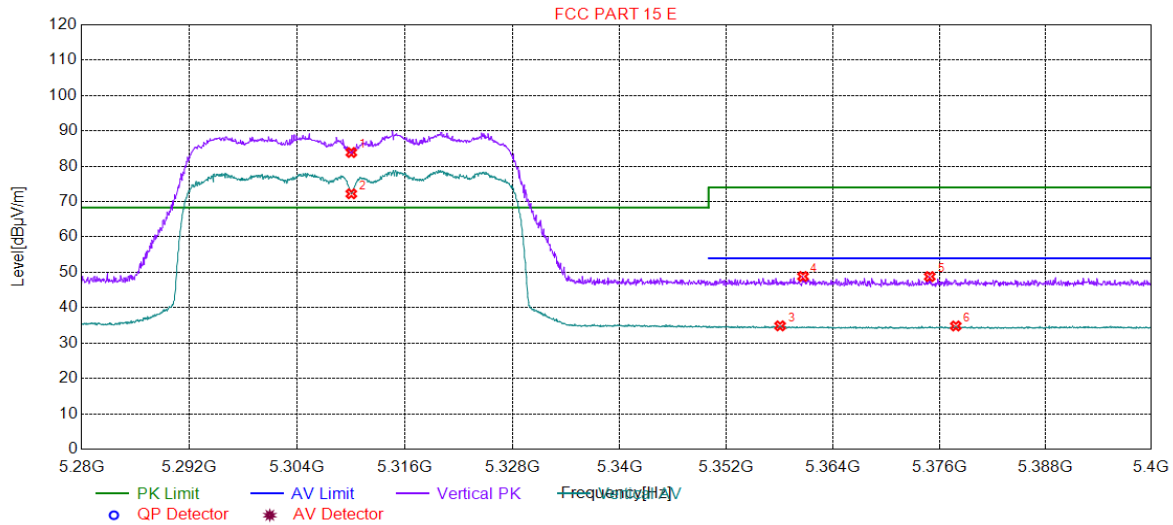
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5123.6118	50.10	7.51	74.00	23.90	150	69	Horizontal
2	5126.4132	37.92	7.51	54.00	16.08	150	233	Horizontal
3	5141.2206	34.61	7.54	54.00	19.39	150	258	Horizontal
4	5144.7224	48.26	7.55	74.00	25.74	150	50	Horizontal
5	5270.0000	91.61	7.71	68.30	-23.31	150	258	Horizontal
6	5270.0000	79.26	7.71	0.00	-79.26	150	227	Horizontal



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4.4.1.71 11AC40_MIMO_62_Vertical



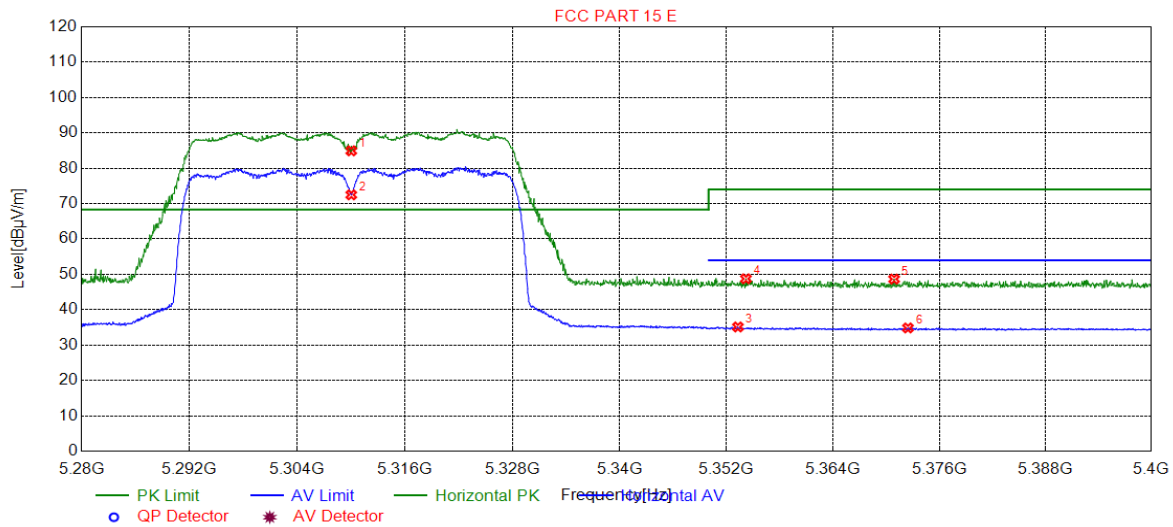
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.0000	83.89	7.76	68.30	-15.59	150	42	Vertical
2	5310.0000	72.21	7.76	0.00	-72.21	150	42	Vertical
3	5358.0390	34.87	7.86	54.00	19.13	150	66	Vertical
4	5360.6203	48.84	7.86	74.00	25.16	150	48	Vertical
5	5374.9075	48.80	7.89	74.00	25.20	150	267	Vertical
6	5377.8489	34.84	7.90	54.00	19.16	150	149	Vertical



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4.4.1.72 11AC40_MIMO_62_Horizontal



Suspected List

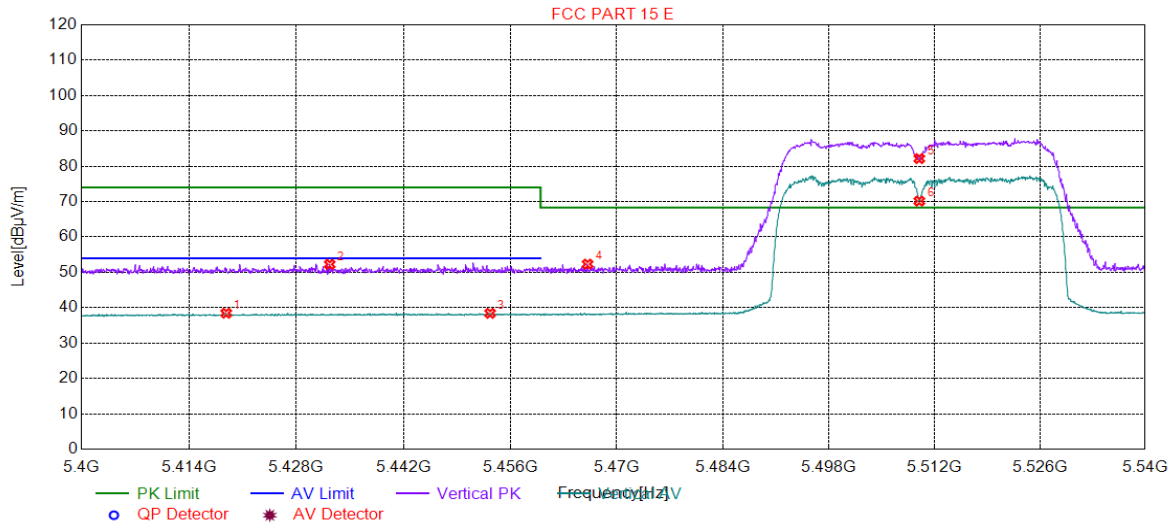
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.0000	84.92	7.76	68.30	-16.62	150	226	Horizontal
2	5310.0000	72.48	7.76	0.00	-72.48	150	226	Horizontal
3	5353.2966	35.13	7.85	54.00	18.87	150	226	Horizontal
4	5354.1971	48.75	7.85	74.00	25.25	150	336	Horizontal
5	5370.8854	48.66	7.88	74.00	25.34	150	51	Horizontal
6	5372.4462	34.85	7.88	54.00	19.15	150	201	Horizontal



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4.4.1.73 11AC40_MIMO_102_Vertical



Suspected List

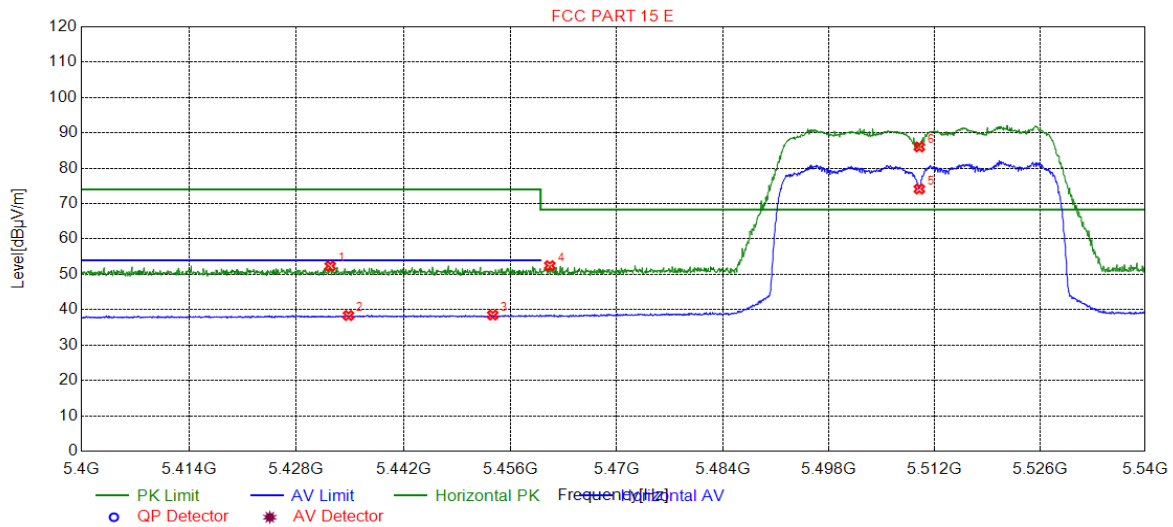
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5418.8394	38.45	7.97	54.00	15.55	150	349	Vertical
2	5432.3562	52.26	7.99	74.00	21.74	150	145	Vertical
3	5453.3667	38.43	8.03	54.00	15.57	150	74	Vertical
4	5466.1831	52.33	8.05	68.30	15.97	150	260	Vertical
5	5510.0000	82.17	8.13	68.30	-13.87	150	31	Vertical
6	5510.0000	70.15	8.13	0.00	-70.15	150	273	Vertical



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4.4.1.74 11AC40_MIMO_102_Horizontal



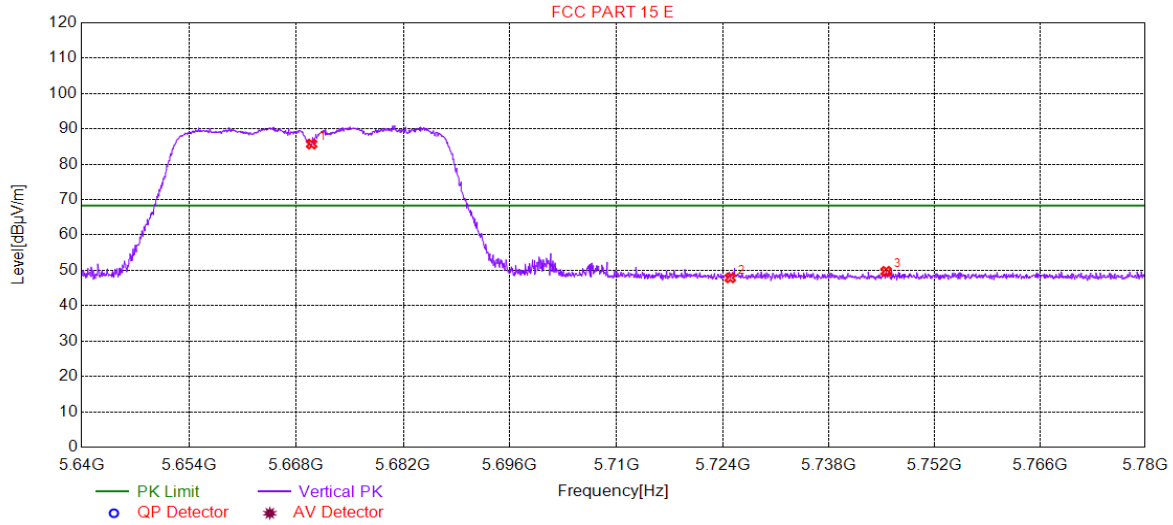
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5432.4262	52.33	7.99	74.00	21.67	150	10	Horizontal
2	5434.8074	38.36	8.00	54.00	15.64	150	234	Horizontal
3	5453.7169	38.49	8.03	54.00	15.51	150	214	Horizontal
4	5461.2106	52.46	8.04	68.30	15.84	150	311	Horizontal
5	5510.0000	74.12	8.13	0.00	-74.12	150	228	Horizontal
6	5510.0000	86.04	8.13	68.30	-17.74	150	228	Horizontal



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4.4.1.75 11AC40_MIMO_134_Vertical



Suspected List

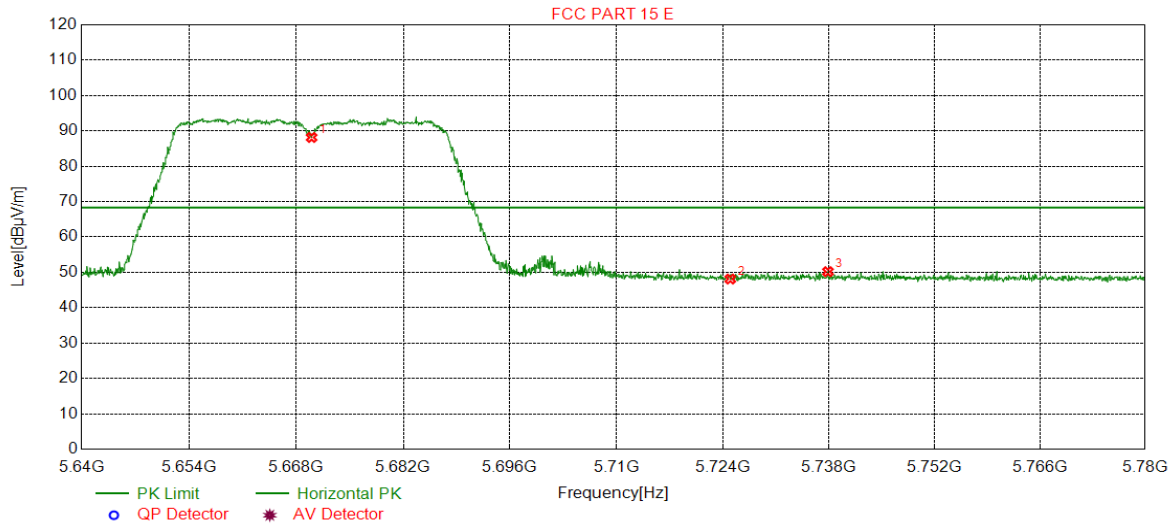
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	85.72	8.46	68.30	-17.42	150	32	Vertical
2	5725.0000	47.89	8.57	68.30	20.41	150	18	Vertical
3	5745.6128	49.71	8.61	68.30	18.59	150	18	Vertical



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4.4.1.76 11AC40_MIMO_134 _ Horizontal



Suspected List

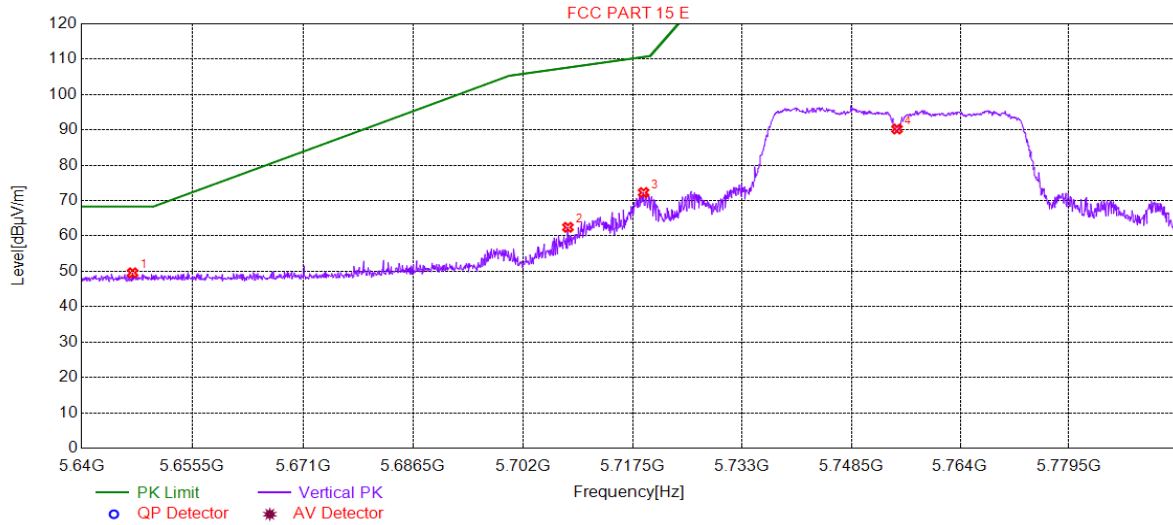
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.0000	88.14	8.46	68.30	-19.84	150	228	Horizontal
2	5725.0000	48.11	8.57	68.30	20.19	150	8	Horizontal
3	5737.9090	50.19	8.60	68.30	18.11	150	56	Horizontal



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4.4.1.77 11AC40_MIMO_151_Veritical



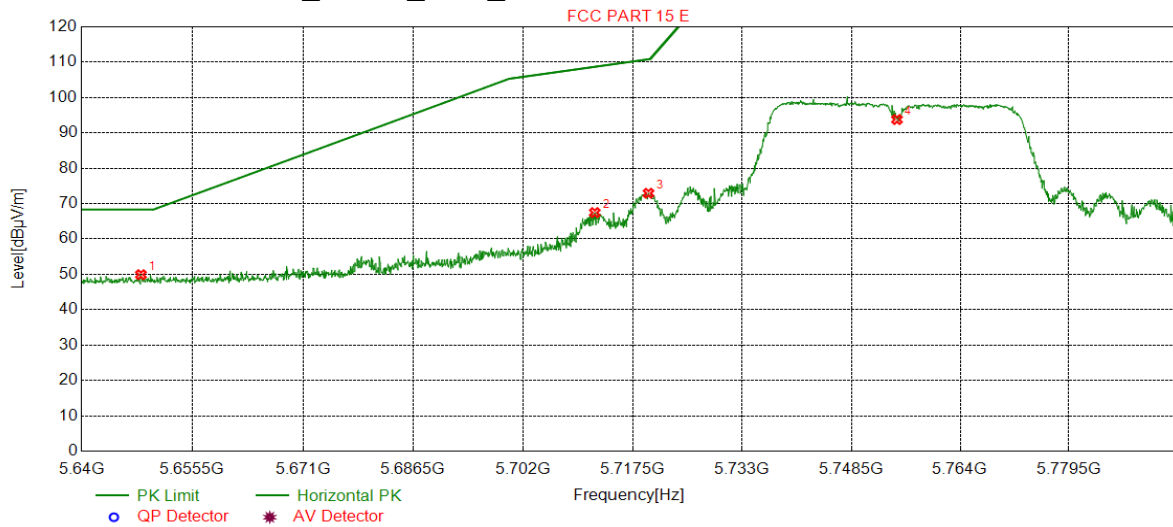
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.1336	49.58	8.43	68.30	18.72	150	18	Vertical
2	5708.3117	62.46	8.53	107.63	45.17	150	46	Vertical
3	5719.0120	72.29	8.55	110.62	38.33	150	42	Vertical
4	5755.0000	90.24	8.64	0.00	-90.24	150	66	Vertical



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4.4.1.78 11AC40_MIMO_151 _ Horizontal



Suspected List

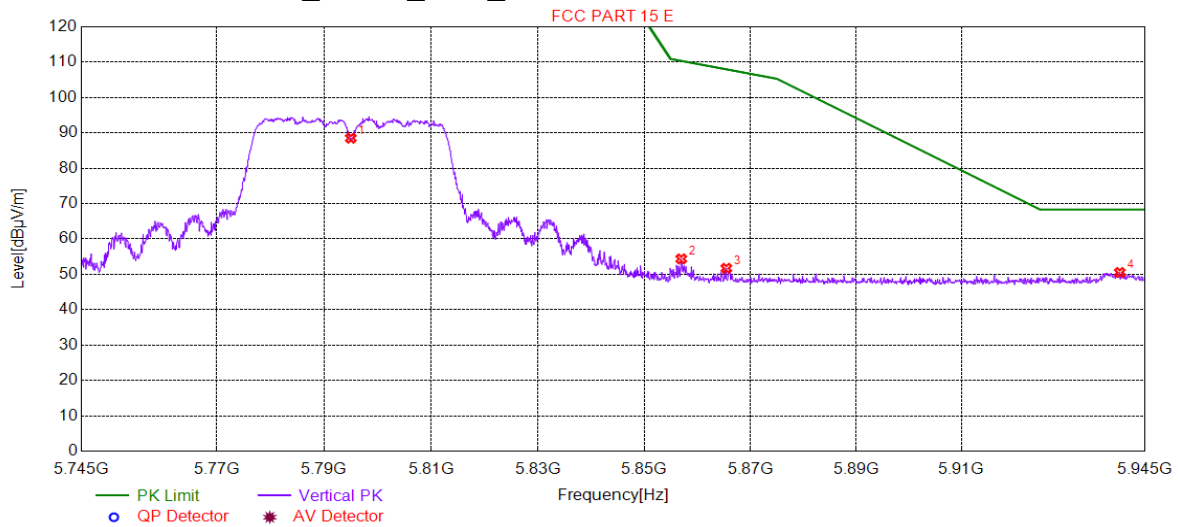
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5648.2966	49.91	8.43	68.30	18.39	150	61	Horizontal
2	5712.1111	67.46	8.54	108.69	41.23	150	66	Horizontal
3	5719.7099	72.94	8.56	110.82	37.88	150	200	Horizontal
4	5755.0000	93.78	8.64	0.00	-93.78	150	57	Horizontal



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4.4.1.79 11AC40_MIMO_159_Veritical



Suspected List

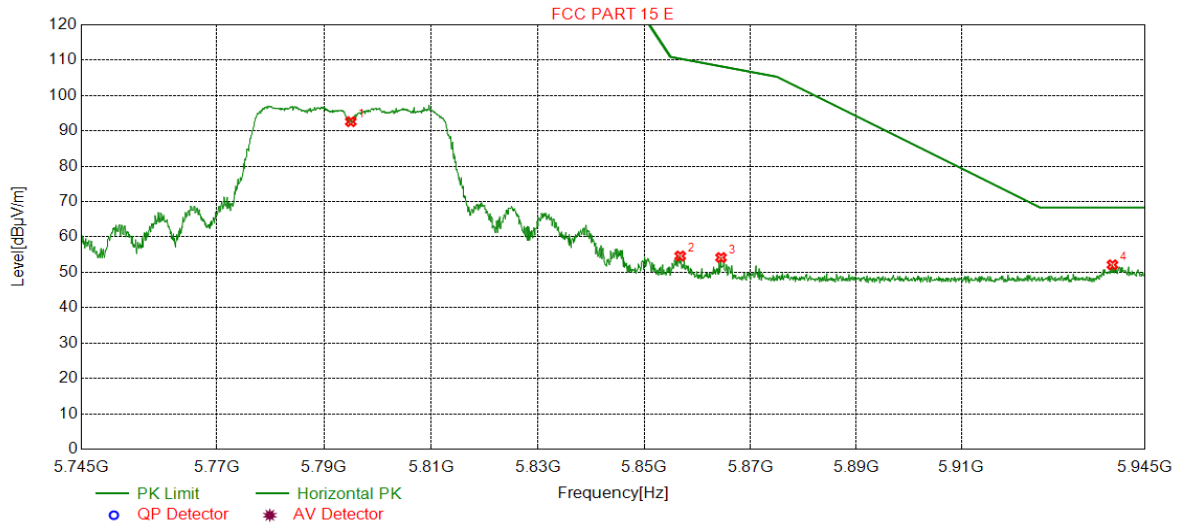
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	88.51	8.73	0.00	-88.51	150	52	Vertical
2	5856.9560	54.37	8.91	110.35	55.98	150	66	Vertical
3	5865.4602	51.71	8.94	107.97	56.26	150	75	Vertical
4	5940.1976	50.53	9.16	68.30	17.77	150	66	Vertical



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4.4.1.80 11AC40_MIMO_159_Horizontal

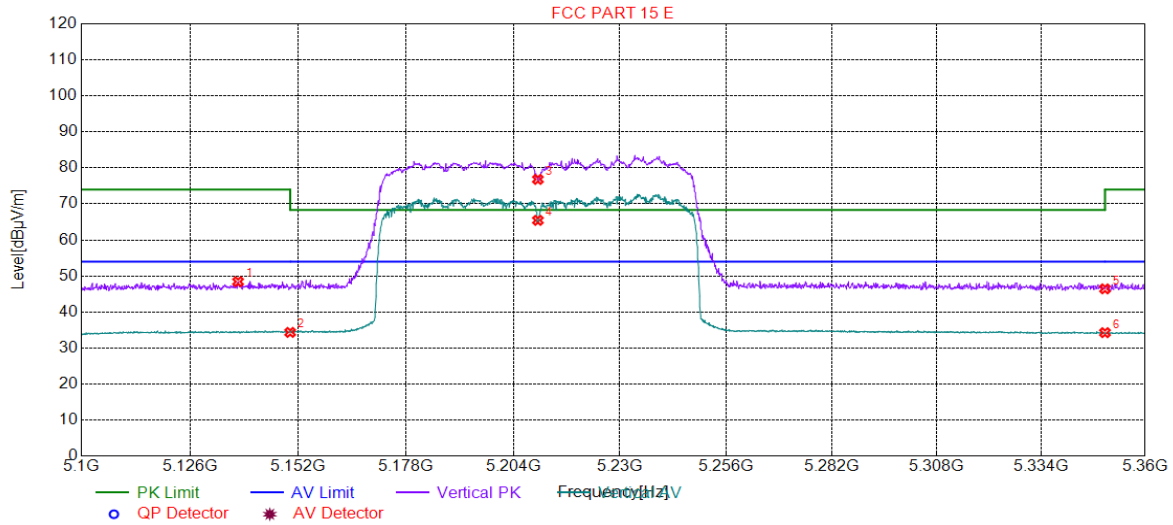


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.0000	92.61	8.73	0.00	-92.61	150	64	Horizontal
2	5856.7559	54.62	8.91	110.41	55.79	150	55	Horizontal
3	5864.4597	54.19	8.93	108.25	54.06	150	69	Horizontal
4	5938.7969	52.13	9.16	68.30	16.17	150	78	Horizontal



4.4.1.81 11AC80_MIMO_42_Veritical



Suspected List

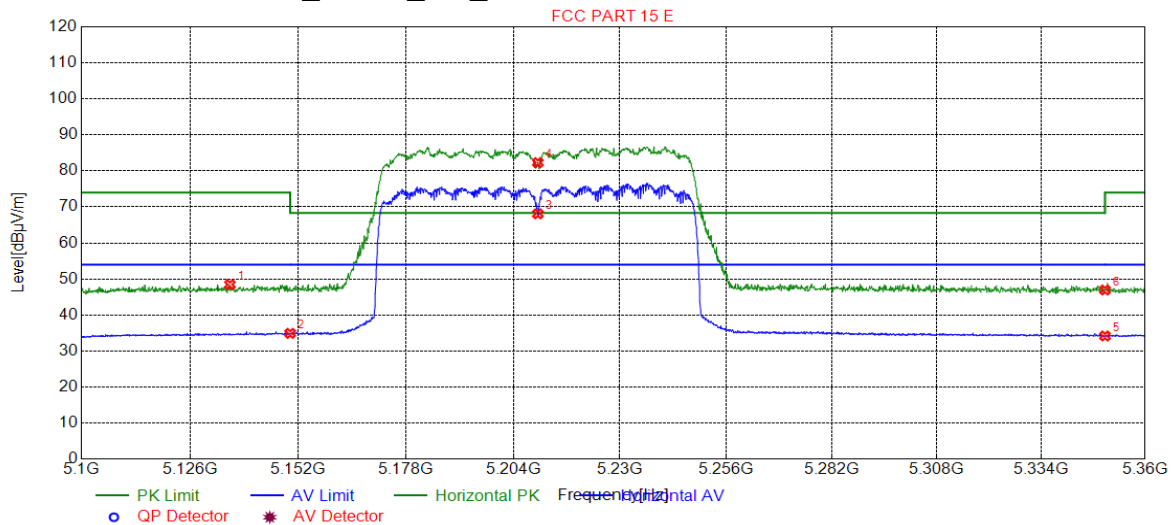
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5137.4587	48.42	7.53	74.00	25.58	150	300	Vertical
2	5150.0000	34.34	7.56	54.00	19.66	150	111	Vertical
3	5210.0000	76.81	7.65	68.30	-8.51	150	49	Vertical
4	5210.0000	65.44	7.65	54.00	-11.44	150	35	Vertical
5	5350.0100	46.42	7.84	74.00	27.58	150	178	Vertical
6	5350.0000	34.26	7.84	54.00	19.74	150	276	Vertical



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4.4.1.82 11AC80_MIMO_42_Horizontal



Suspected List

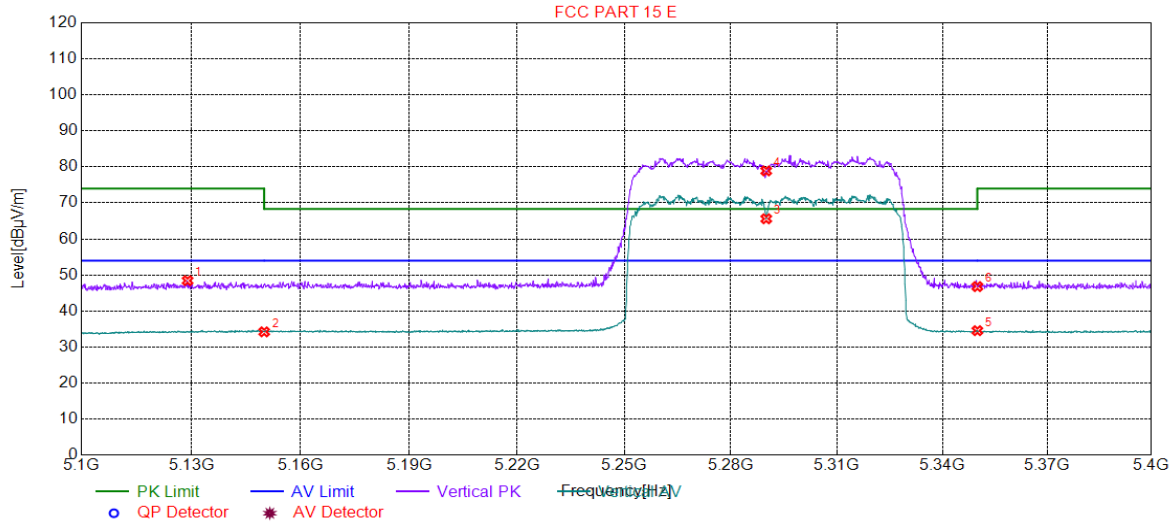
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5135.5078	48.44	7.53	74.00	25.56	150	88	Horizontal
2	5150.0000	34.90	7.56	54.00	19.10	150	230	Horizontal
3	5210.0000	68.08	7.65	54.00	-14.08	150	230	Horizontal
4	5210.0000	82.30	7.65	68.30	-14.00	150	225	Horizontal
5	5350.0000	34.18	7.84	54.00	19.82	150	235	Horizontal
6	5350.01000	46.94	7.84	74.00	27.06	150	64	Horizontal



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4.4.1.83 11AC80_MIMO_58_Veritical



Suspected List

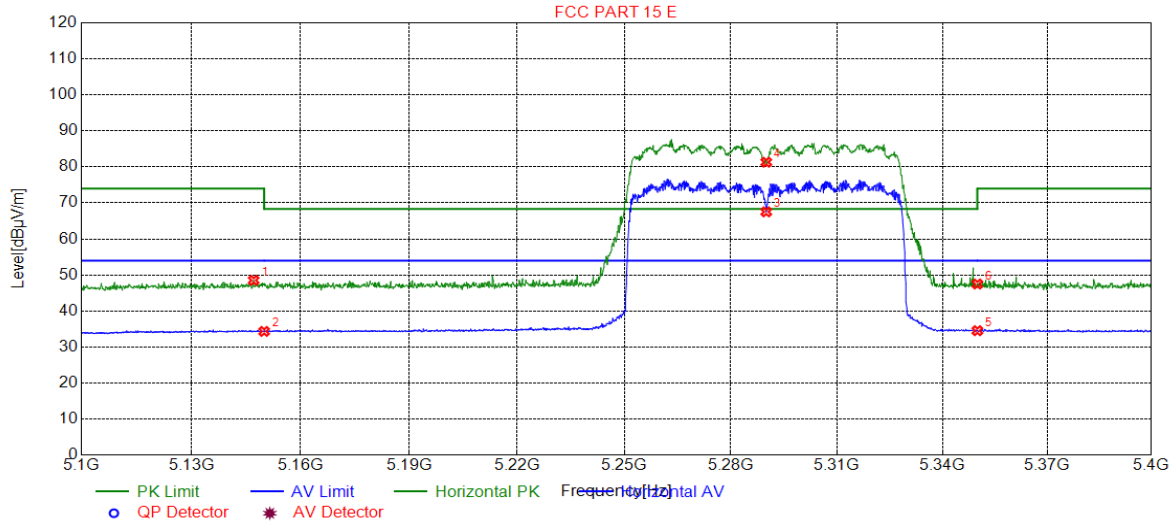
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5128.9645	48.42	7.52	74.00	25.58	150	98	Vertical
2	5150.0000	34.21	7.56	54.00	19.79	150	199	Vertical
3	5290.0000	65.59	7.73	54.00	-11.59	150	30	Vertical
4	5290.0000	78.89	7.73	68.30	-10.59	150	35	Vertical
5	5350.0000	34.54	7.84	54.00	19.46	150	40	Vertical
6	5350.0100	46.78	7.84	74.00	27.22	150	60	Vertical



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4.4.1.84 11AC80_MIMO_58 _ Horizontal

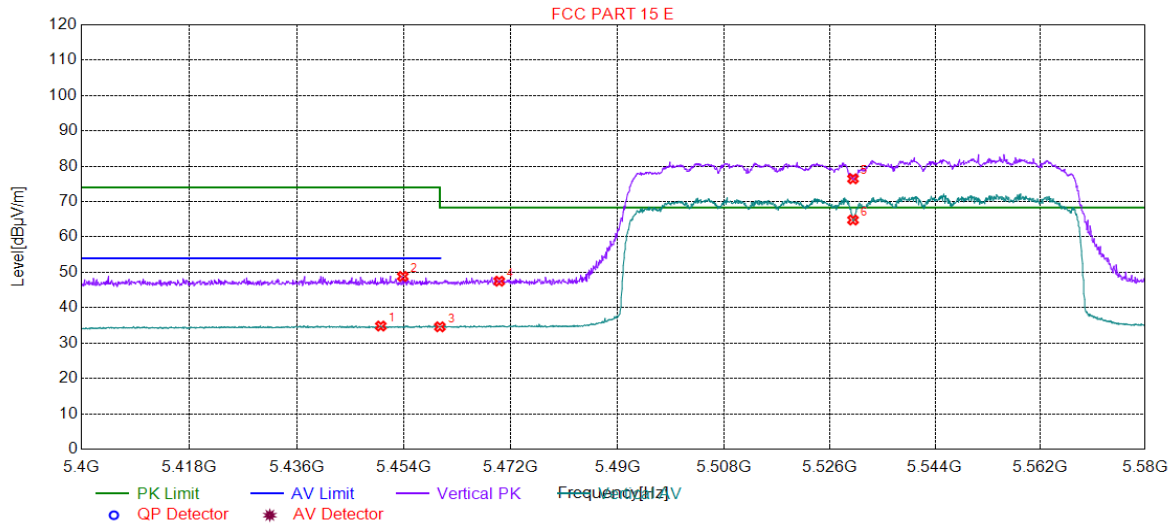


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5147.1236	48.52	7.55	74.00	25.48	150	344	Horizontal
2	5150.0000	34.34	7.56	54.00	19.66	150	136	Horizontal
3	5290.0000	67.53	7.73	54.00	-13.53	150	217	Horizontal
4	5290.0000	81.30	7.73	68.30	-13.00	150	231	Horizontal
5	5350.0000	34.53	7.84	54.00	19.47	150	226	Horizontal
6	5350.0100	47.49	7.84	74.00	26.51	150	121	Horizontal



4.4.1.85 11AC80_MIMO_106_Veritical



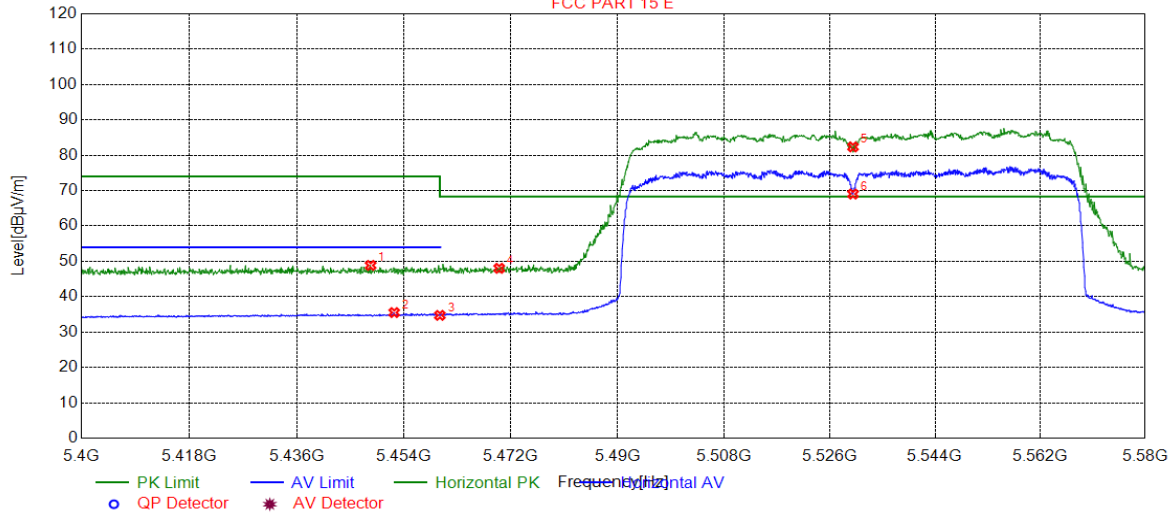
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.0650	34.82	8.02	54.00	19.18	150	178	Vertical
2	5453.7569	48.85	8.03	74.00	25.15	150	308	Vertical
3	5460.0000	34.60	8.04	54.00	19.40	150	189	Vertical
4	5470.0000	47.50	8.05	68.30	20.80	150	263	Vertical
5	5530.0000	76.46	8.18	68.30	-8.16	150	169	Vertical
6	5530.0000	64.80	8.18	0.00	-64.80	150	178	Vertical



4.4.1.86 11AC80_MIMO_106 _ Horizontal

FCC PART 15 E

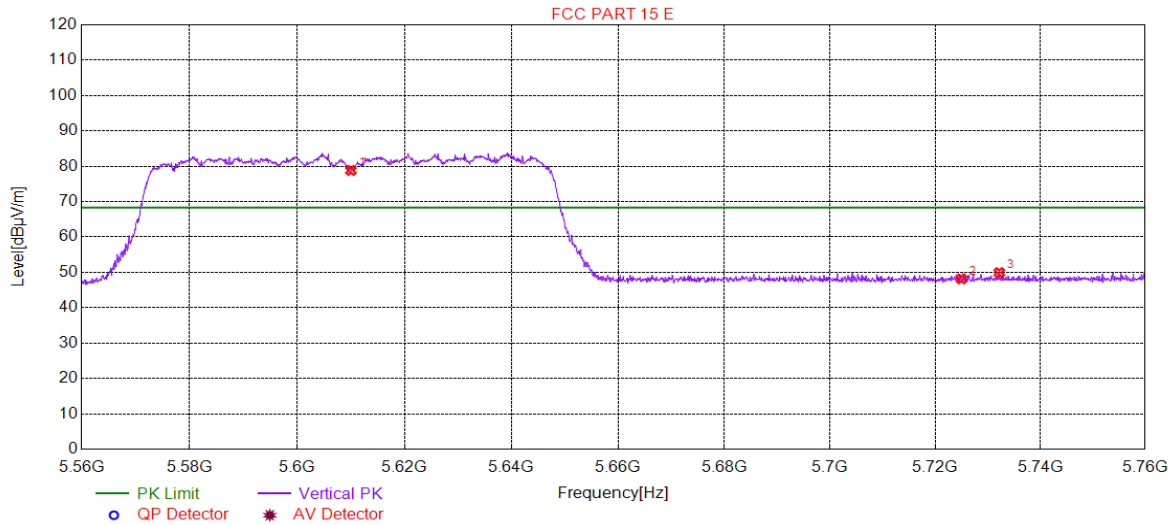


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5448.3542	48.86	8.02	74.00	25.14	150	113	Horizontal
2	5452.3162	35.52	8.02	54.00	18.48	150	228	Horizontal
3	5460.0000	34.73	8.04	54.00	19.27	150	214	Horizontal
4	5470.0000	48.04	8.05	68.30	20.26	150	185	Horizontal
5	5530.0000	82.36	8.18	68.30	-14.06	150	224	Horizontal
6	5530.0000	69.04	8.18	0.00	-69.04	150	224	Horizontal



4.4.1.87 11AC80_MIMO_122_Vertical



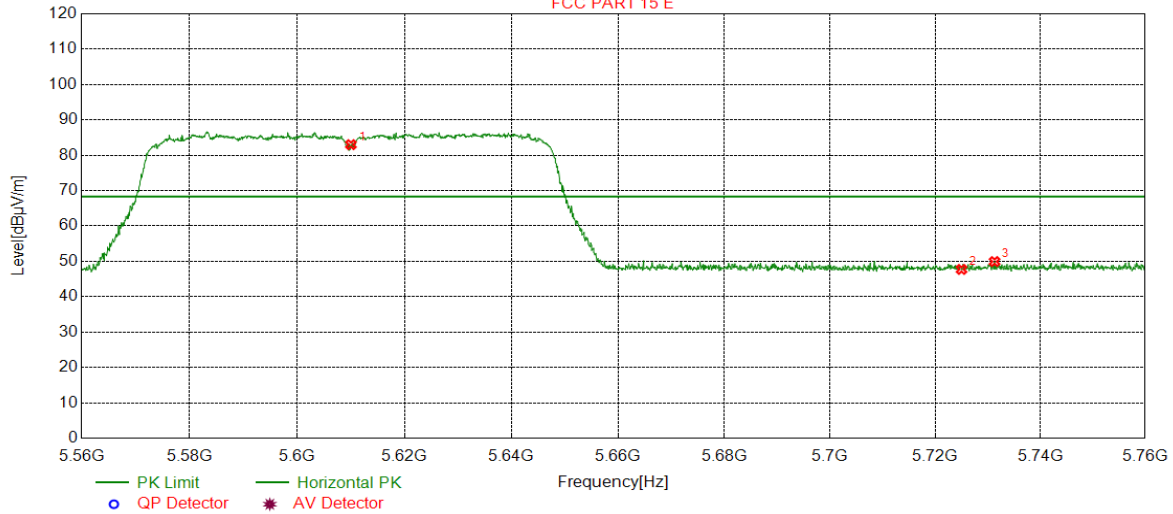
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.0000	78.82	8.37	68.30	-10.52	150	37	Vertical
2	5725.0000	48.15	8.57	68.30	20.15	150	19	Vertical
3	5732.1861	49.93	8.58	68.30	18.37	150	241	Vertical



4.4.1.88 11AC80_MIMO_122 _ Horizontal

FCC PART 15 E



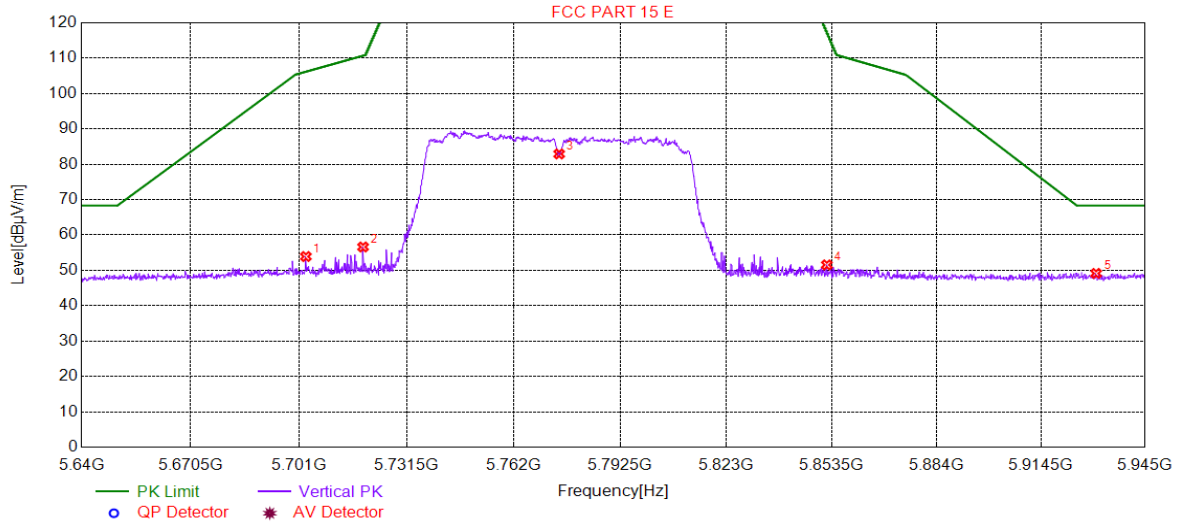
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.0000	83.00	8.37	68.30	-14.70	150	77	Horizontal
2	5725.0000	47.72	8.57	68.30	20.58	150	162	Horizontal
3	5731.2856	49.94	8.58	68.30	18.36	150	305	Horizontal



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4.4.1.89 11AC80_MIMO_155_Verticial

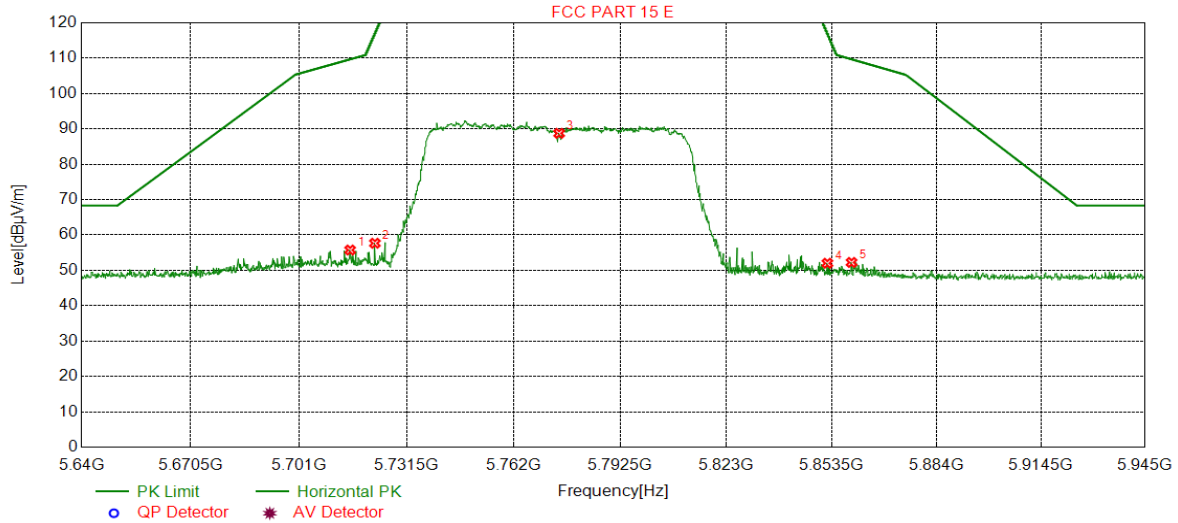


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5703.0140	53.91	8.52	106.14	52.23	150	16	Vertical
2	5719.1871	56.61	8.55	110.67	54.06	150	26	Vertical
3	5775.0000	82.91	8.68	122.30	39.39	150	26	Vertical
4	5852.0810	51.55	8.90	117.56	66.01	150	16	Vertical
5	5930.6578	49.14	9.13	68.30	19.16	150	360	Vertical



4.4.1.90 11AC80_MIMO_155_Horizontal

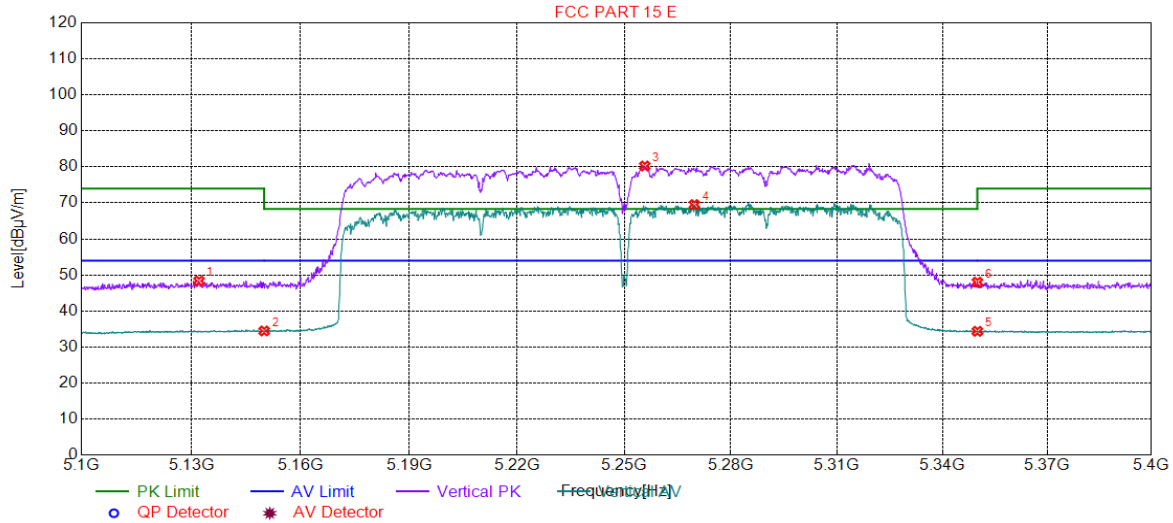


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5715.5253	55.74	8.55	109.65	53.91	150	70	Horizontal
2	5722.5438	57.67	8.56	116.70	59.03	150	59	Horizontal
3	5775.0000	88.74	8.68	122.30	33.56	150	70	Horizontal
4	5852.2336	52.01	8.90	117.21	65.20	150	73	Horizontal
5	5859.2521	52.24	8.92	109.71	57.47	150	52	Horizontal



4.4.1.91 11AC160_MIMO_50_Vertical



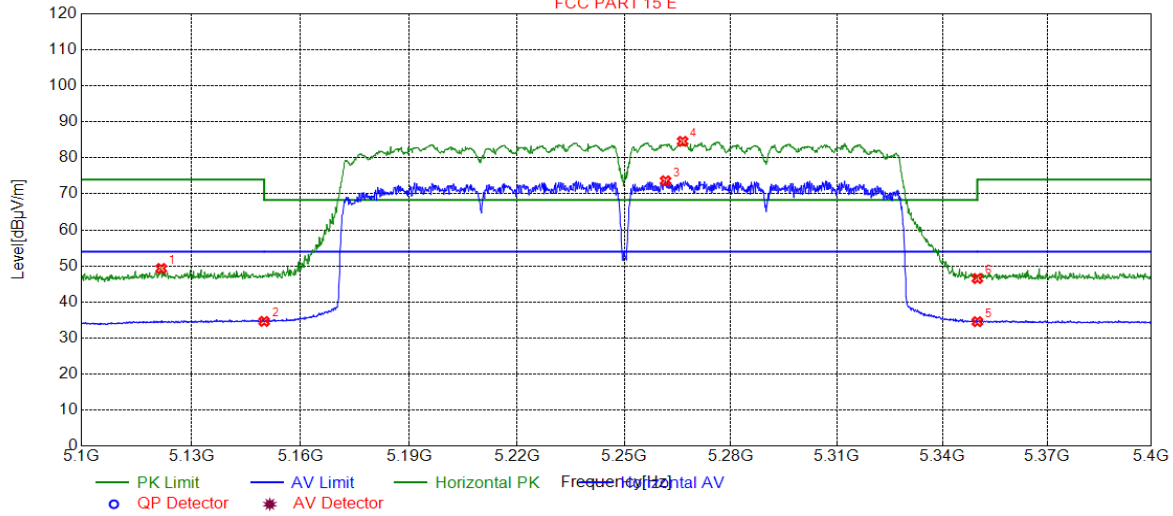
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5132.1161	48.34	7.52	74.00	25.66	150	94	Vertical
2	5150.0000	34.46	7.56	54.00	19.54	150	78	Vertical
3	5255.7779	80.25	7.70	68.30	-11.95	150	22	Vertical
4	5269.7349	69.54	7.71	54.00	-15.54	150	37	Vertical
5	5350.0000	34.36	7.84	54.00	19.64	150	321	Vertical
6	5350.0100	48.01	7.84	74.00	25.99	150	14	Vertical



4.4.1.92 11AC160_MIMO_50_Horizontal

FCC PART 15 E



Suspected List

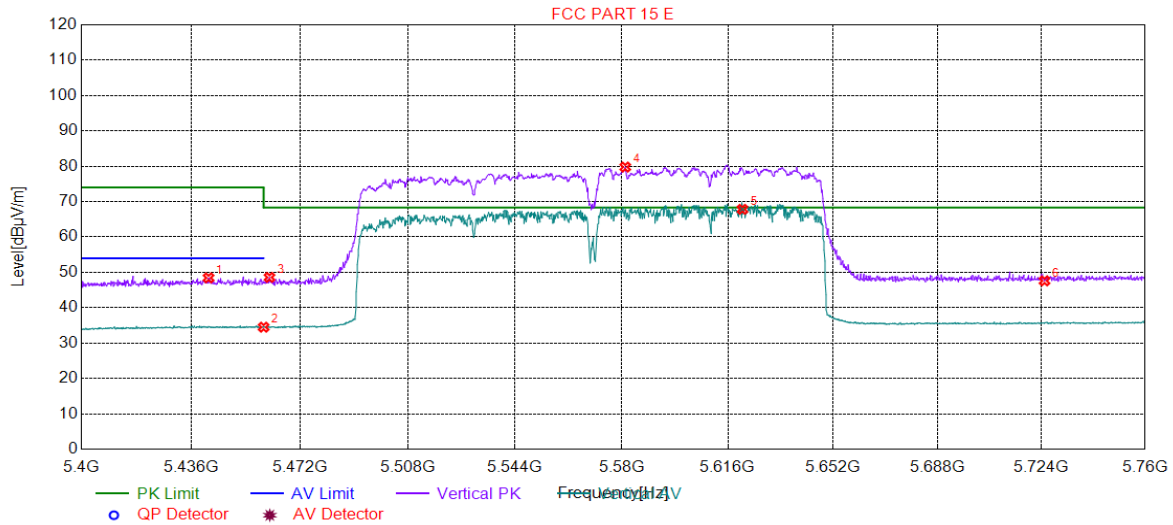
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.7609	49.31	7.51	74.00	24.69	150	229	Horizontal
2	5150.0000	34.62	7.56	54.00	19.38	150	156	Horizontal
3	5261.6308	73.64	7.70	54.00	-19.64	150	225	Horizontal
4	5266.4332	84.60	7.71	68.30	-16.30	150	217	Horizontal
5	5350.0000	34.54	7.84	54.00	19.46	150	52	Horizontal
6	5350.0100	46.52	7.84	74.00	27.48	150	214	Horizontal



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4.4.1.93 11AC160_MIMO_114_Veritical



Suspected List

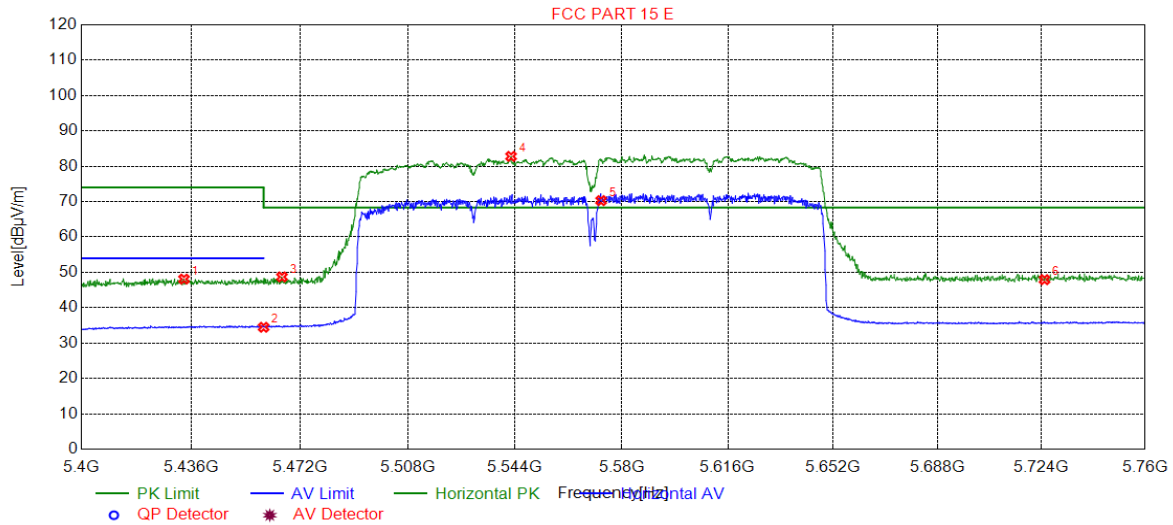
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5441.7809	48.44	8.01	74.00	25.56	150	86	Vertical
2	5460.0000	34.50	8.04	54.00	19.50	150	16	Vertical
3	5461.9510	48.58	8.04	68.30	19.72	150	282	Vertical
4	5581.1706	79.77	8.30	68.30	-11.47	150	20	Vertical
5	5621.0000	67.83	8.38	0.00	-67.83	150	25	Vertical
6	5725.0000	47.60	8.57	68.30	20.70	150	20	Vertical



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4.4.1.94 11AC160_MIMO_114 _ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5433.6768	48.10	7.99	74.00	25.90	150	84	Horizontal
2	5460.0000	34.47	8.04	54.00	19.53	150	55	Horizontal
3	5466.0930	48.71	8.05	68.30	19.59	150	193	Horizontal
4	5542.6313	82.79	8.21	68.30	-14.49	150	55	Horizontal
5	5573.0000	70.29	8.28	0.00	-70.29	150	50	Horizontal
6	5725.0000	47.94	8.57	68.30	20.36	150	221	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.



4.5 Dynamic Frequency Selection

4.5.1 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
<p>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.</p>		



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

4.5.3 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>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.</p> <p>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.</p> <p>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.</p>	



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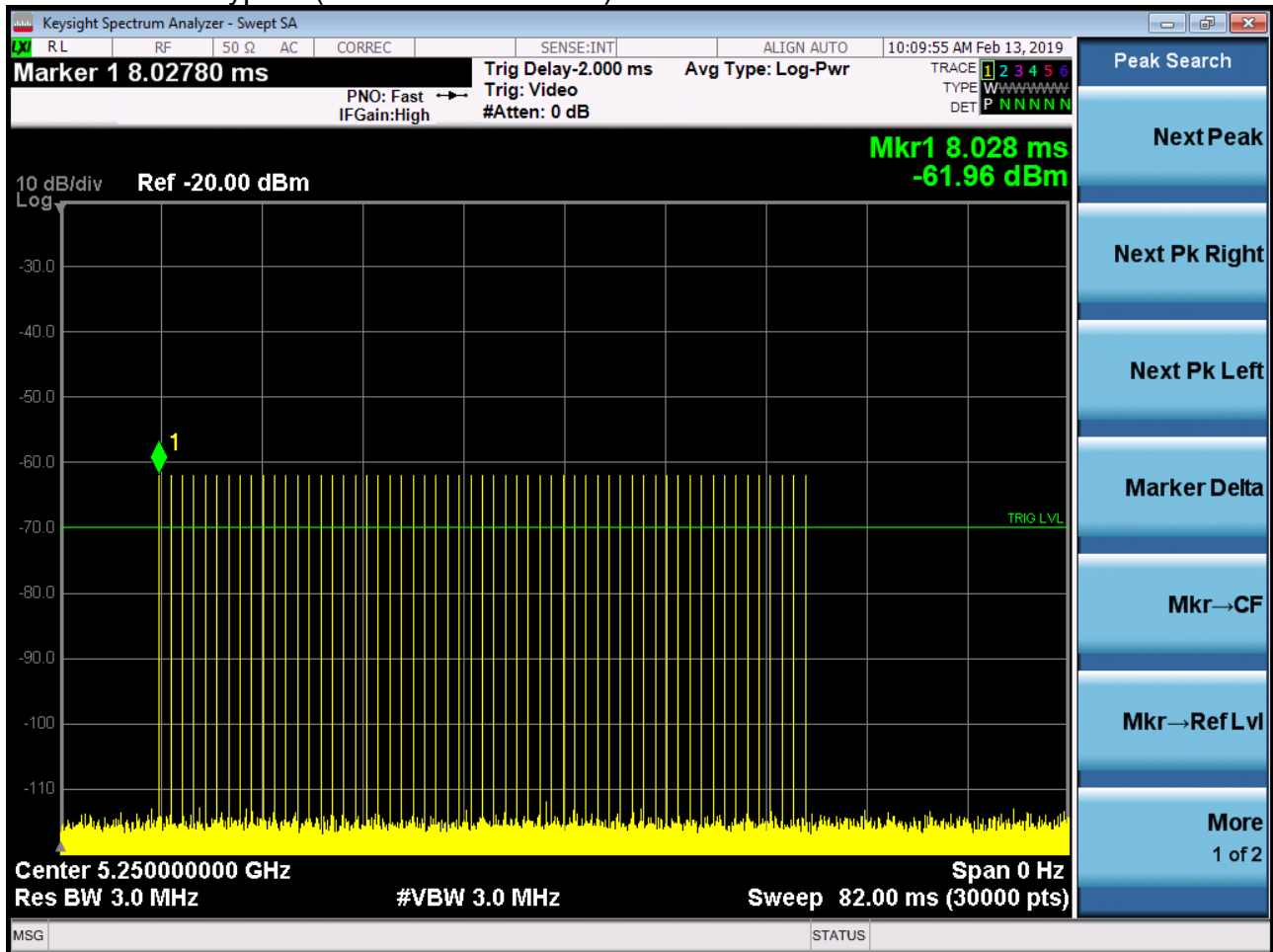
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4.5.4 Test plots

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

4.5.4.1 Radar Waveform Calibration Result

Radar Type 0 (160MHz / 5250MHz)

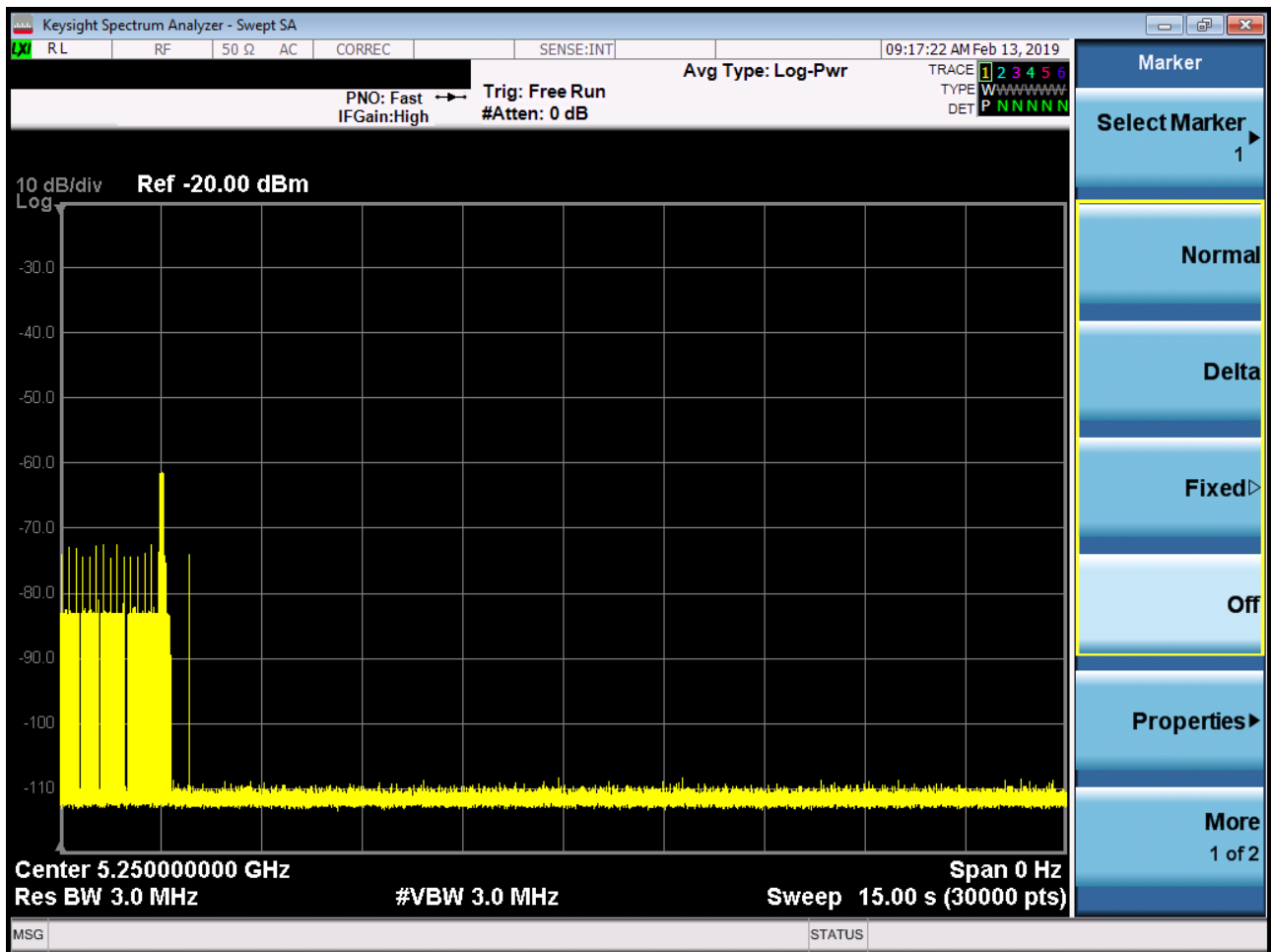


4.5.5 Test Data:

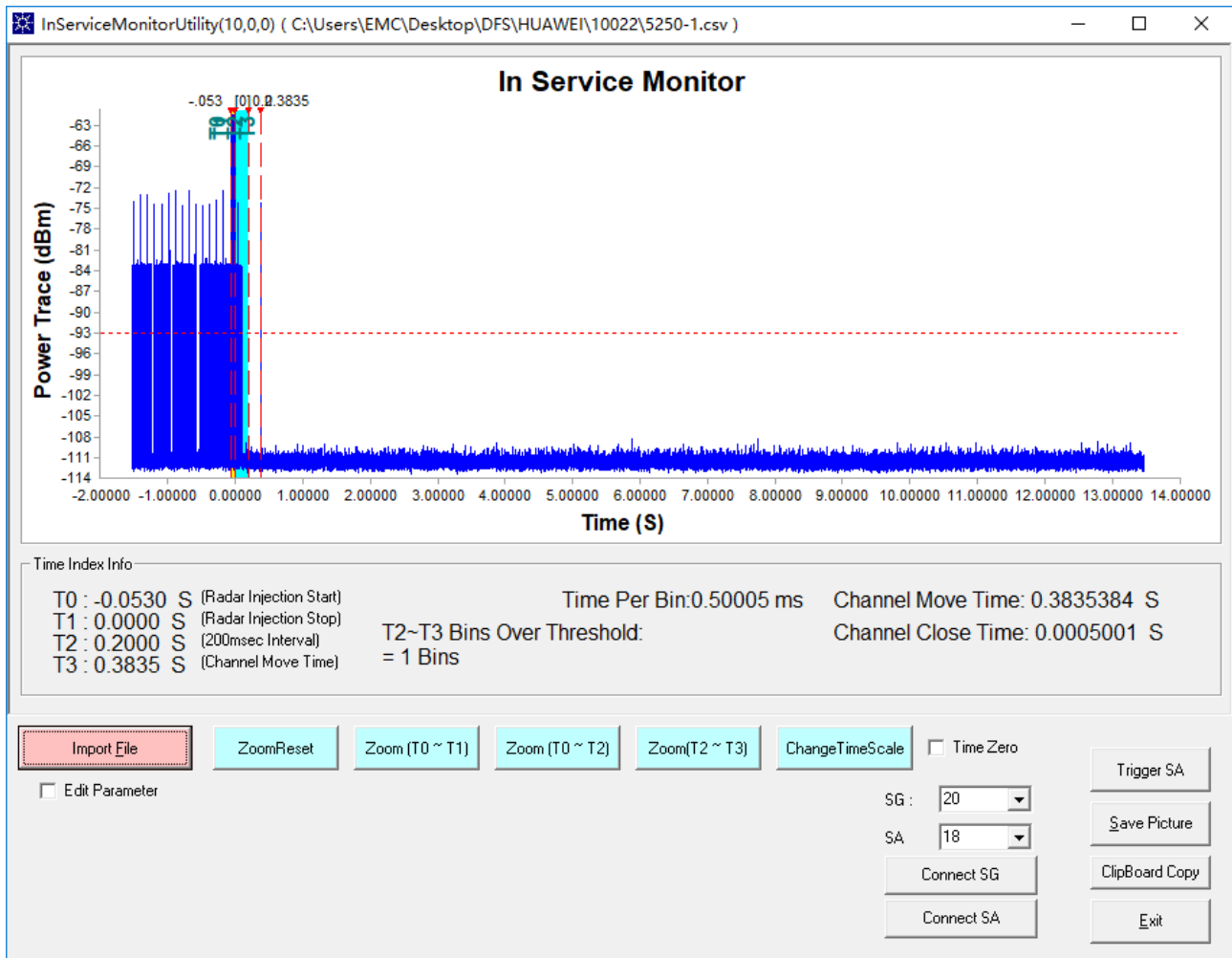
BW/Channel	Test Item	Test Result	Limit	Results
160MHz / 5250MHz	Channel Move Time	0.3835s	<10s	Pass
	Channel Closing Transmission Time	0.5ms	<60ms	Pass

4.5.5.1 Test plots

4.5.5.1.1 Test Bandwidth/Channel= 160MHz / 5250MHz



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

No.	Item	Measurement Uncertainty
1	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
2	Conduct emission test	±3.12 dB(9KHz- 30MHz)
3	Temperature test	±1°C
4	Humidity test	±3%
5	DC and low frequency voltages	±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	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2018/4/2	2019/4/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2019/2/11	2020/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2019/2/11	2020/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018/4/2	2019/4/1

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	2018/9/2	2019/9/2
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2018/3/13	2019/3/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2
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	2018/7/12	2019/7/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2
BiConiLog Antenna (26-	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26



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3000MHz)					
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2018/4/2	2019/4/1

RE in Chamber

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018/4/2	2019/4/1
Trilog-Broadband Antenna (25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28
Pre-amplifier (9k-1GHz)	Sonoma Instrument Co	310N	SEM005-03	2018/4/13	2019/4/12
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11

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	2018/4/2	2019/4/1
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	2018/9/2	2019/9/2
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2018/11/20	2019/11/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018/4/2	2019/4/1
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	2018/7/12	2019/7/11

7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for HR/2019/10021.

The End

