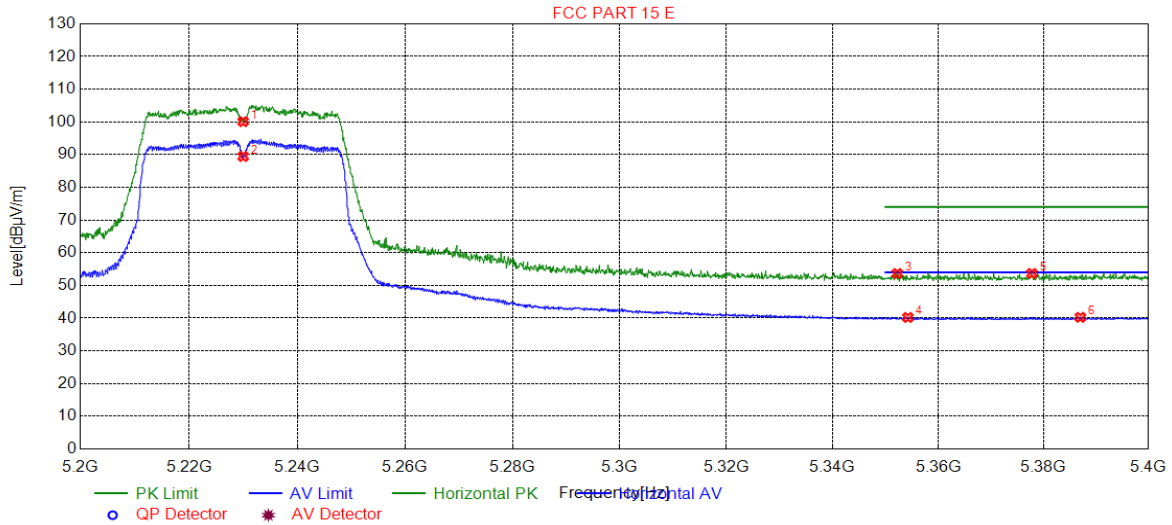


4.10.1.67 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	100.10	15.51	0.00	-100.10	133	255	Horizontal
2	5230.00	89.45	15.51	0.00	-89.45	159	269	Horizontal
3	5352.27	53.67	15.95	74.00	20.33	118	132	Horizontal
4	5354.27	40.23	15.97	54.00	13.77	125	269	Horizontal
5	5377.78	53.69	16.11	74.00	20.31	141	125	Horizontal
6	5386.99	40.27	16.17	54.00	13.73	111	29	Horizontal

Final Data List

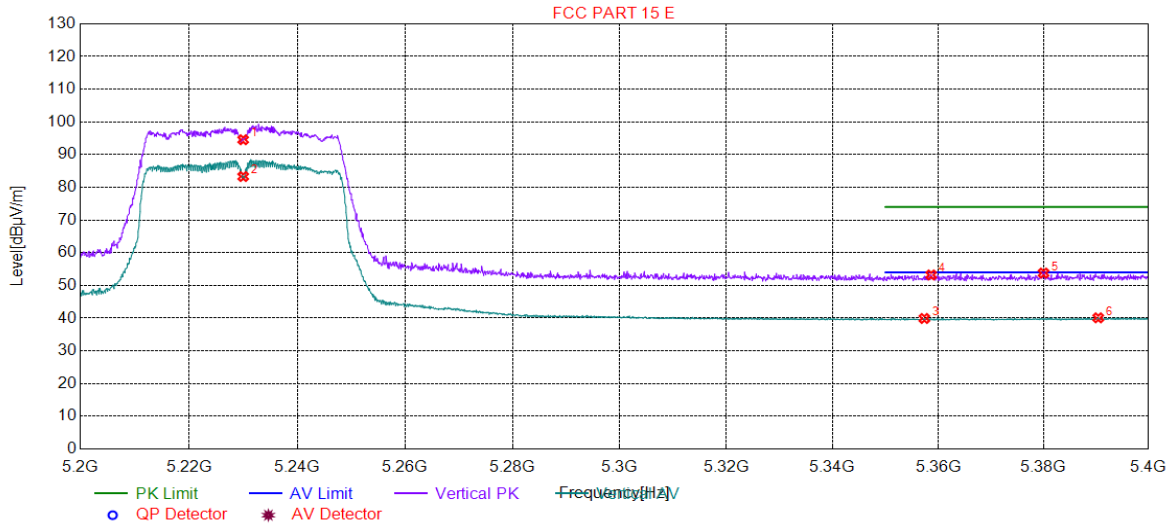


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4.10.1.68 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.00	94.56	15.51	0.00	-94.56	293	153	Vertical
2	5230.00	83.31	15.51	0.00	-83.31	202	153	Vertical
3	5357.37	39.92	15.99	54.00	14.08	176	56	Vertical
4	5358.67	53.22	15.99	74.00	20.78	230	194	Vertical
5	5379.99	53.79	16.13	74.00	20.21	255	0	Vertical
6	5390.39	40.11	16.19	54.00	13.89	166	22	Vertical

Final Data List

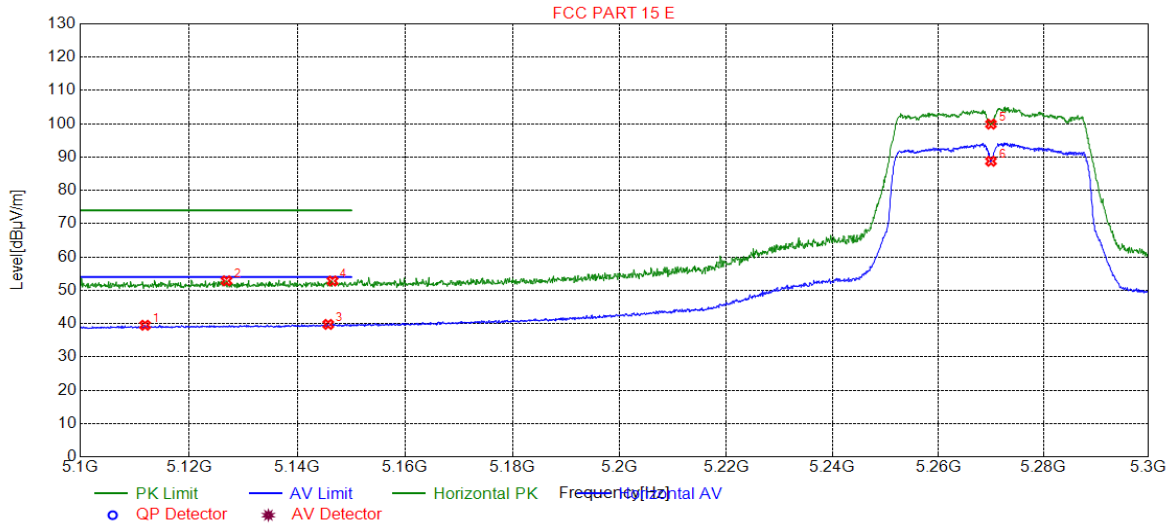


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4.10.1.69 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5111.90	39.54	15.19	54.00	14.46	155	249	Horizontal
2	5126.91	52.87	15.32	74.00	21.13	203	16	Horizontal
3	5145.72	39.79	15.48	54.00	14.21	133	262	Horizontal
4	5146.52	52.81	15.49	74.00	21.19	124	262	Horizontal
5	5270.00	99.90	15.56	0.00	-99.90	120	249	Horizontal
6	5270.00	88.76	15.56	0.00	-88.76	231	256	Horizontal

Final Data List

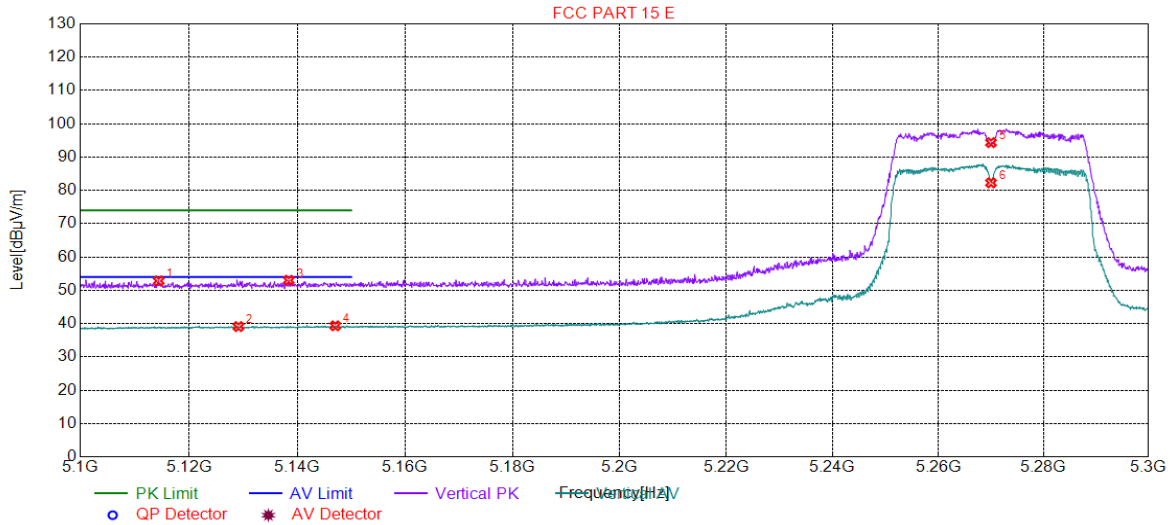


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4.10.1.70 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5114.40	52.83	15.21	74.00	21.17	260	332	Vertical
2	5129.11	39.14	15.34	54.00	14.86	180	44	Vertical
3	5138.41	53.04	15.42	74.00	20.96	186	38	Vertical
4	5147.02	39.36	15.49	54.00	14.64	195	11	Vertical
5	5270.00	94.35	15.56	0.00	-94.35	215	154	Vertical
6	5270.00	82.27	15.56	0.00	-82.27	153	161	Vertical

Final Data List

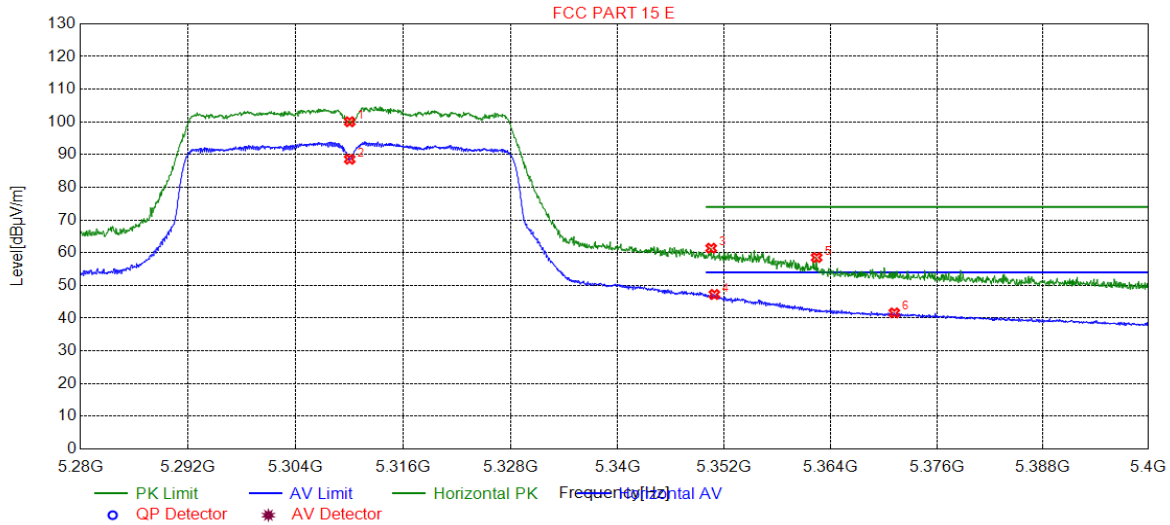


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4.10.1.71 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	100.06	15.75	0.00	-100.06	192	257	Horizontal
2	5310.00	88.60	15.75	0.00	-88.60	138	250	Horizontal
3	5350.53	61.40	15.94	74.00	12.60	153	271	Horizontal
4	5350.89	47.26	15.95	54.00	6.74	104	271	Horizontal
5	5362.42	58.55	16.02	74.00	15.45	122	271	Horizontal
6	5371.18	41.62	16.07	54.00	12.38	157	250	Horizontal

Final Data List

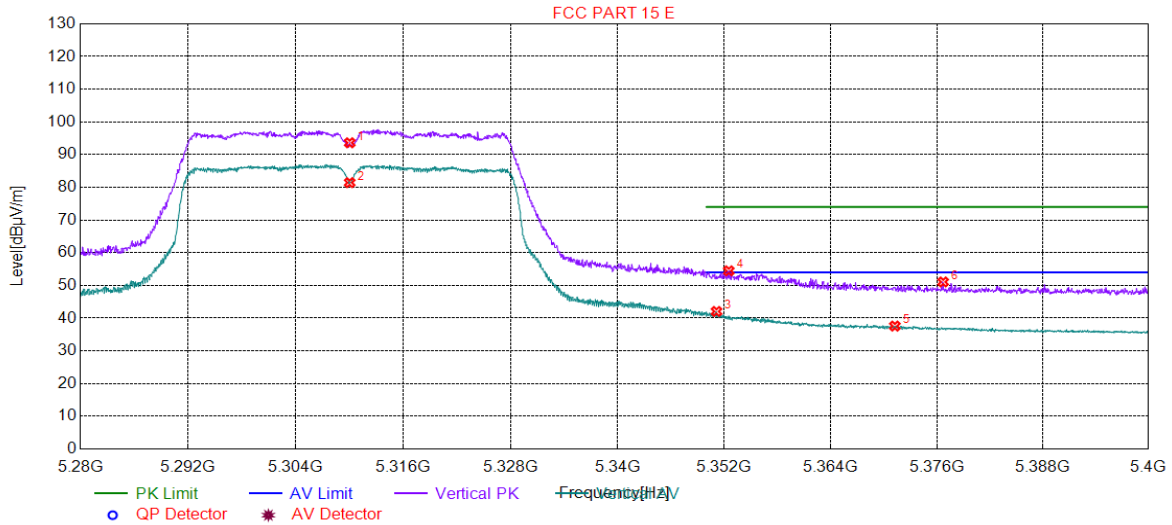


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4.10.1.72 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	93.63	15.75	0.00	-93.63	275	84	Vertical
2	5310.00	81.44	15.75	0.00	-81.44	237	91	Vertical
3	5351.13	42.07	15.95	54.00	11.93	171	84	Vertical
4	5352.51	54.48	15.96	74.00	19.52	284	29	Vertical
5	5371.24	37.59	16.07	54.00	16.41	184	84	Vertical
6	5376.70	51.08	16.11	74.00	22.92	207	50	Vertical

Final Data List

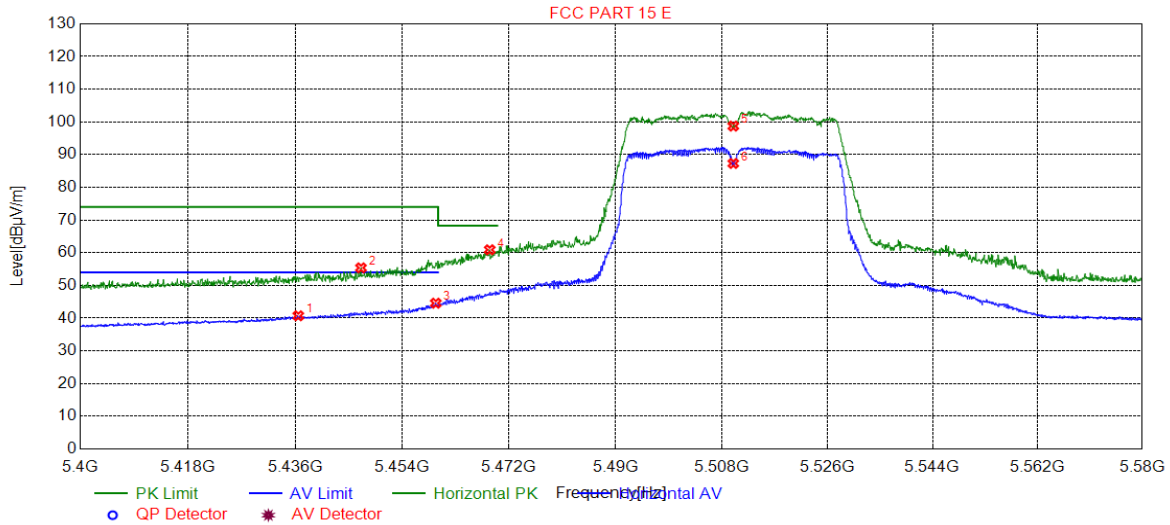


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4.10.1.73 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5436.46	40.74	16.25	54.00	13.26	202	270	Horizontal
2	5447.00	55.39	16.25	74.00	18.61	120	263	Horizontal
3	5459.60	44.59	16.25	54.00	9.41	226	270	Horizontal
4	5468.70	60.92	16.25	68.30	7.38	226	243	Horizontal
5	5510.00	98.73	16.28	0.00	-98.73	121	270	Horizontal
6	5510.00	87.31	16.28	0.00	-87.31	220	270	Horizontal

Final Data List

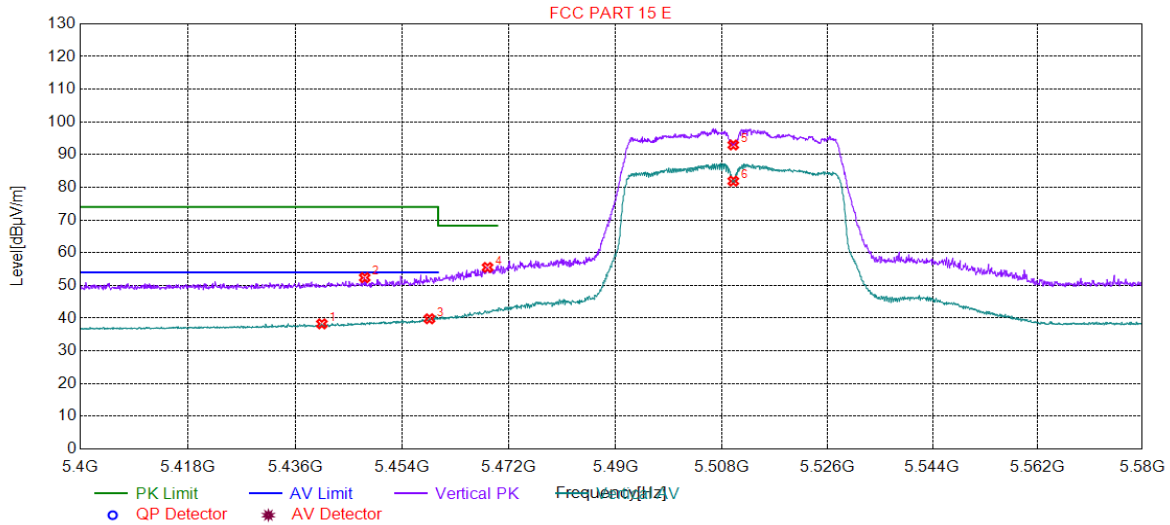


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4.10.1.74 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5440.43	38.27	16.25	54.00	15.73	179	90	Vertical
2	5447.63	52.39	16.25	74.00	21.61	257	97	Vertical
3	5458.52	39.82	16.25	54.00	14.18	180	90	Vertical
4	5468.34	55.53	16.25	68.30	12.77	193	324	Vertical
5	5510.00	92.96	16.28	0.00	-92.96	183	90	Vertical
6	5510.00	81.91	16.28	0.00	-81.91	183	90	Vertical

Final Data List

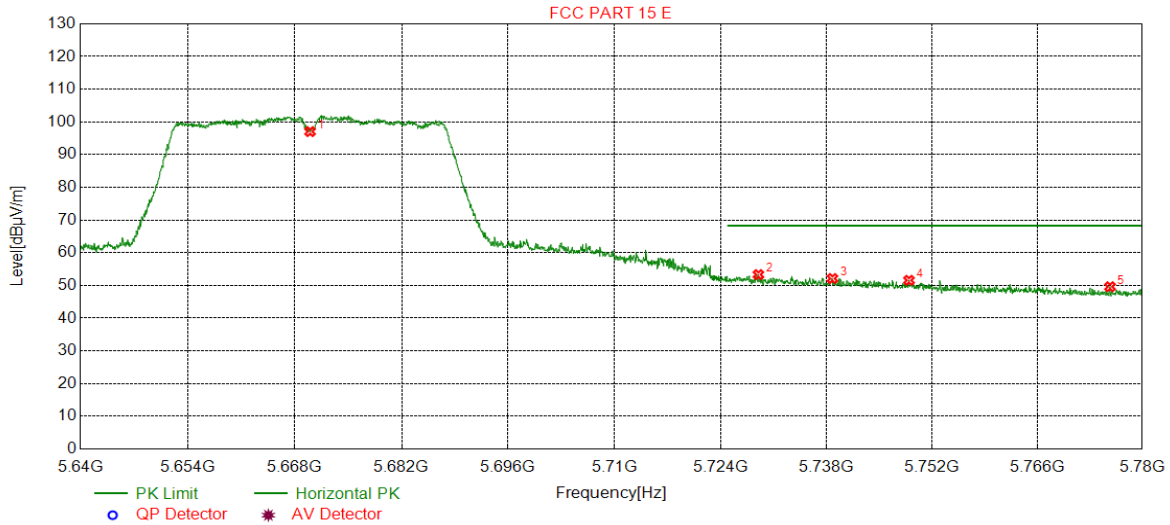


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4.10.1.75 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	97.06	16.64	0.00	-97.06	111	244	Horizontal
2	5729.01	53.33	16.99	68.30	14.97	230	266	Horizontal
3	5738.81	52.13	17.05	68.30	16.17	181	266	Horizontal
4	5748.97	51.58	17.11	68.30	16.72	106	262	Horizontal
5	5775.72	49.62	17.16	68.30	18.68	146	52	Horizontal

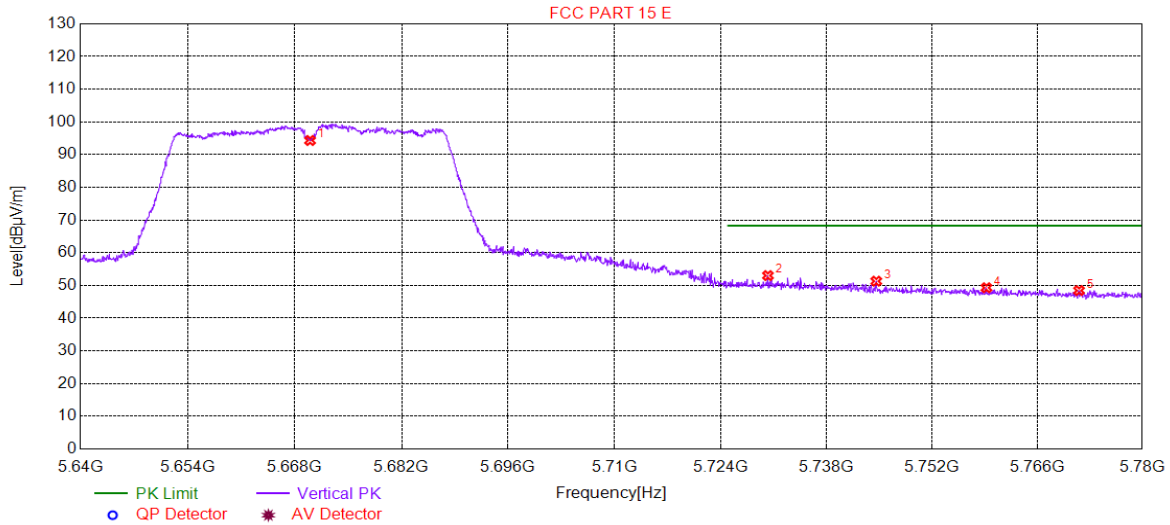
Final Data List



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4.10.1.76 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.00	94.33	16.64	0.00	-94.33	183	60	Vertical
2	5730.27	53.03	16.99	68.30	15.27	163	60	Vertical
3	5744.63	51.32	17.09	68.30	16.98	172	60	Vertical
4	5759.26	49.31	17.13	68.30	18.99	260	55	Vertical
5	5771.59	48.45	17.15	68.30	19.85	193	92	Vertical

Final Data List

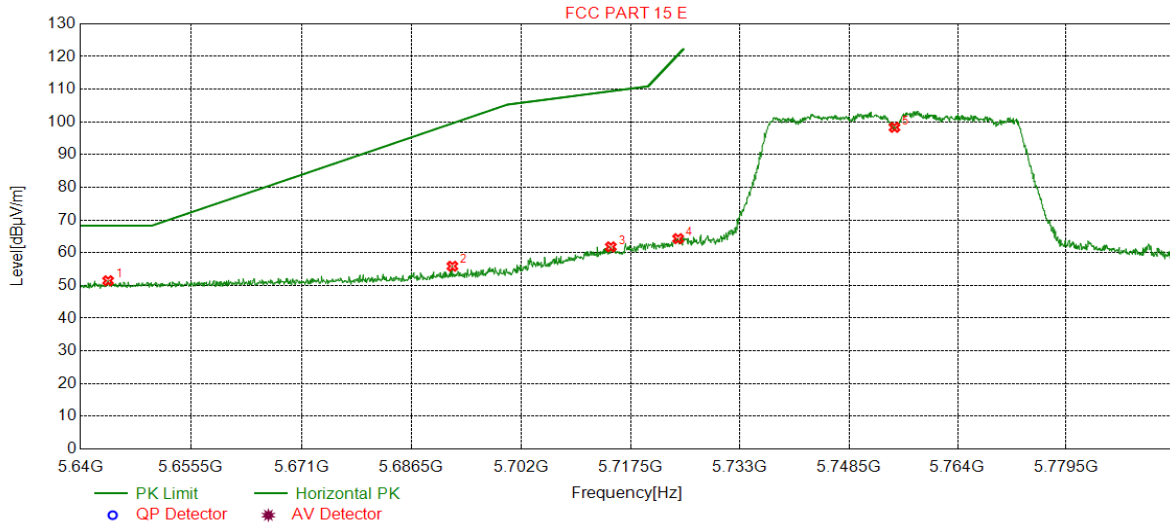


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4.10.1.77 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.87	51.46	16.54	68.30	16.84	148	62	Horizontal
2	5692.26	55.89	16.76	99.57	43.68	159	264	Horizontal
3	5714.66	61.82	16.89	109.41	47.59	109	268	Horizontal
4	5724.20	64.33	16.95	120.49	56.16	166	264	Horizontal
5	5755.00	98.33	17.13	0.00	-98.33	203	268	Horizontal

Final Data List

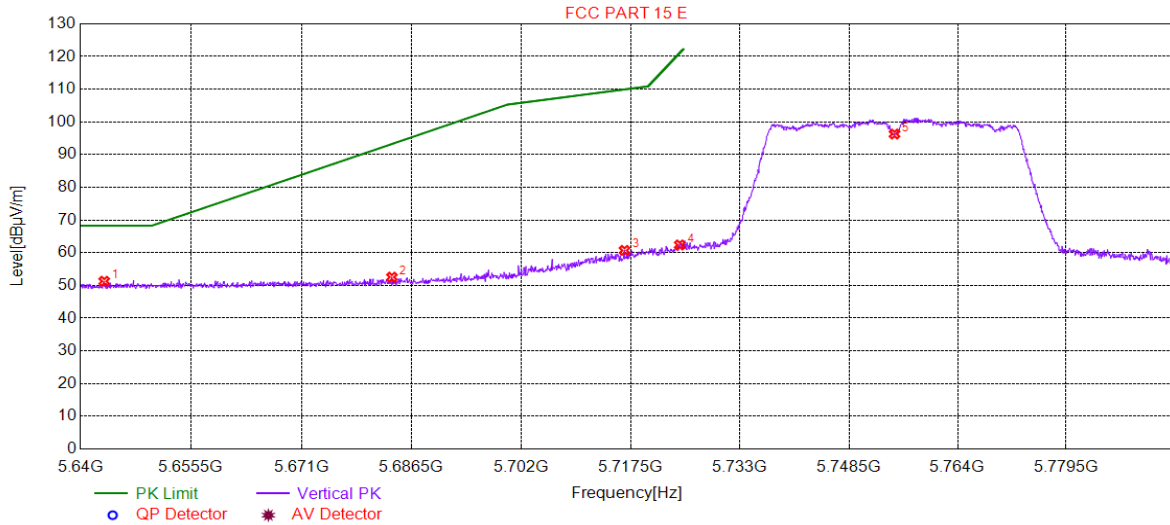


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4.10.1.78 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.33	51.30	16.54	68.30	17.00	196	157	Vertical
2	5683.73	52.55	16.71	93.26	40.71	251	97	Vertical
3	5716.60	60.72	16.91	109.95	49.23	218	60	Vertical
4	5724.43	62.39	16.96	121.02	58.63	231	60	Vertical
5	5755.00	96.31	17.13	0.00	-96.31	286	65	Vertical

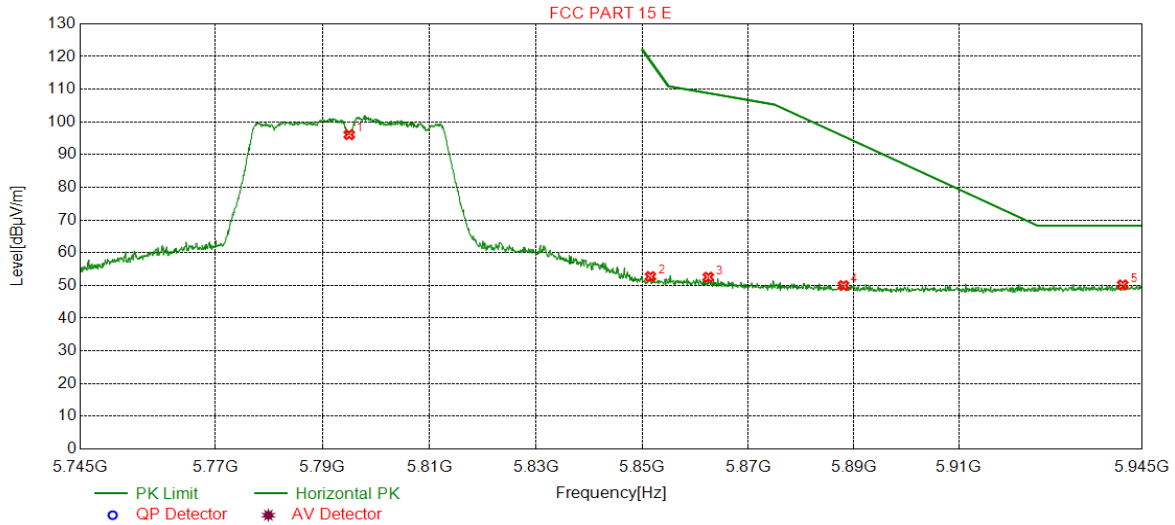
Final Data List



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4.10.1.79 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	96.10	17.18	0.00	-96.10	152	268	Horizontal
2	5851.55	52.73	17.26	118.76	66.03	244	250	Horizontal
3	5862.45	52.56	17.22	108.81	56.25	156	273	Horizontal
4	5888.07	49.99	17.15	95.63	45.64	186	268	Horizontal
5	5941.29	50.19	17.75	68.30	18.11	135	356	Horizontal

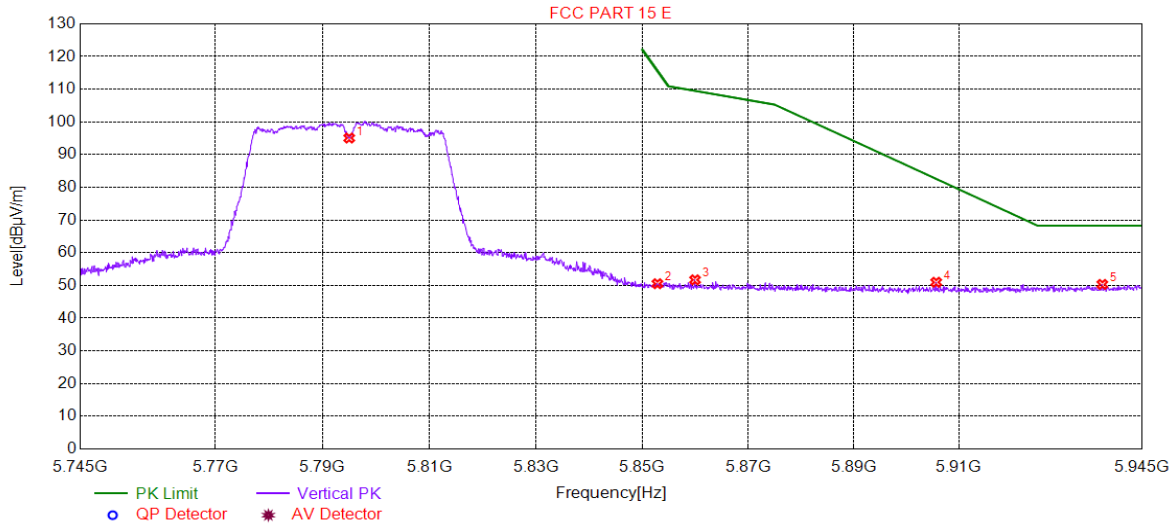
Final Data List



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4.10.1.80 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.00	95.08	17.18	0.00	-95.08	188	68	Vertical
2	5852.85	50.54	17.25	115.79	65.25	163	68	Vertical
3	5859.95	51.73	17.23	109.51	57.78	202	63	Vertical
4	5905.68	50.99	17.20	82.60	31.61	288	63	Vertical
5	5937.39	50.34	17.69	68.30	17.96	160	4	Vertical

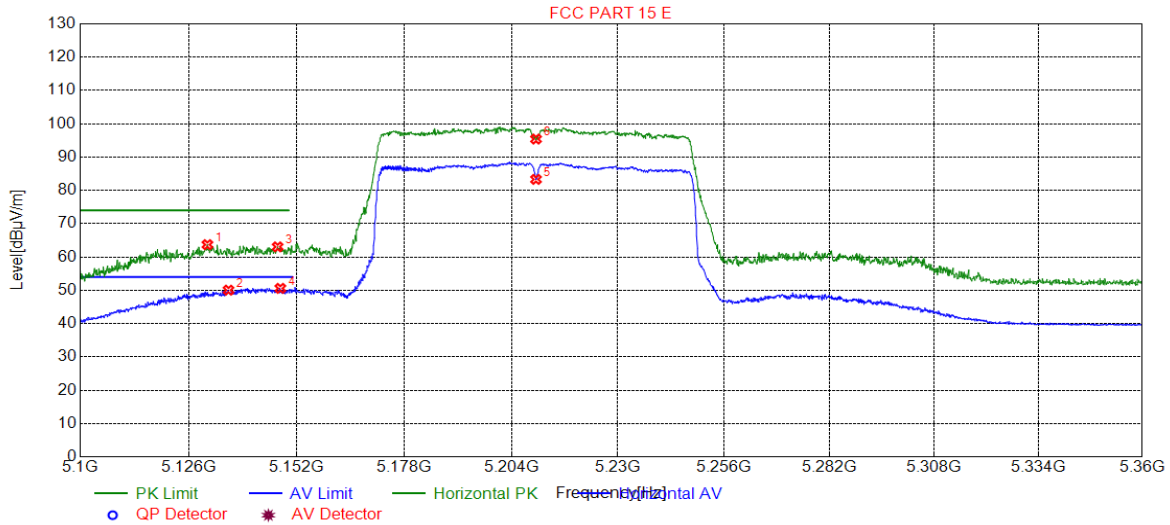
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4.10.1.81 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.43	63.72	15.35	74.00	10.28	109	268	Horizontal
2	5135.50	50.07	15.40	54.00	3.93	248	268	Horizontal
3	5147.34	63.06	15.50	74.00	10.94	152	268	Horizontal
4	5147.99	50.60	15.50	54.00	3.40	100	268	Horizontal
5	5210.00	83.31	15.56	0.00	-83.31	198	254	Horizontal
6	5210.00	95.42	15.56	0.00	-95.42	199	268	Horizontal

Final Data List

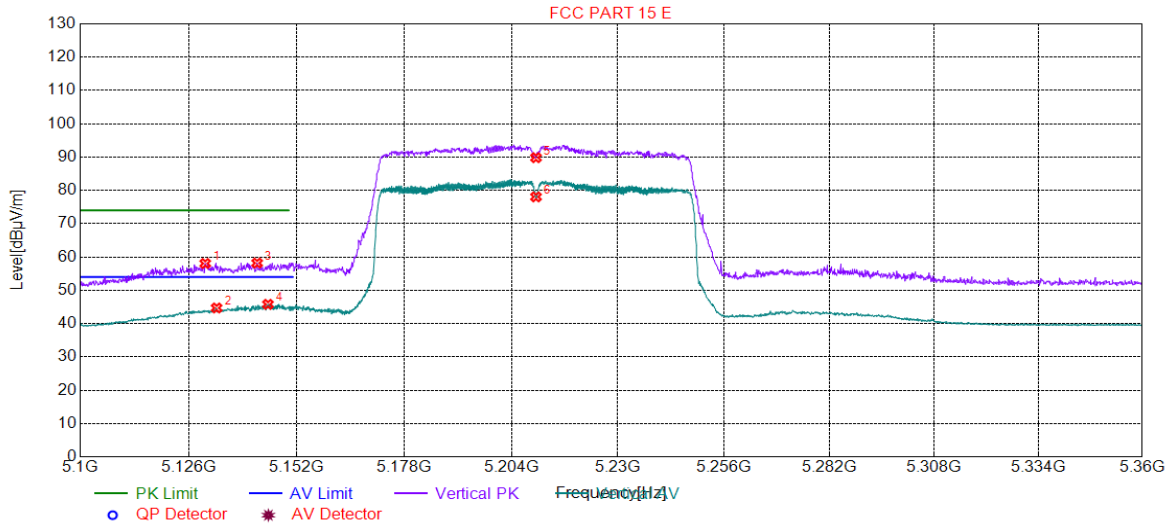


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4.10.1.82 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.91	58.08	15.35	74.00	15.92	163	147	Vertical
2	5132.64	44.72	15.37	54.00	9.28	163	71	Vertical
3	5142.40	58.20	15.45	74.00	15.80	205	36	Vertical
4	5145.00	45.81	15.48	54.00	8.19	274	36	Vertical
5	5210.00	89.83	15.56	0.00	-89.83	166	154	Vertical
6	5210.00	78.06	15.56	0.00	-78.06	283	154	Vertical

Final Data List



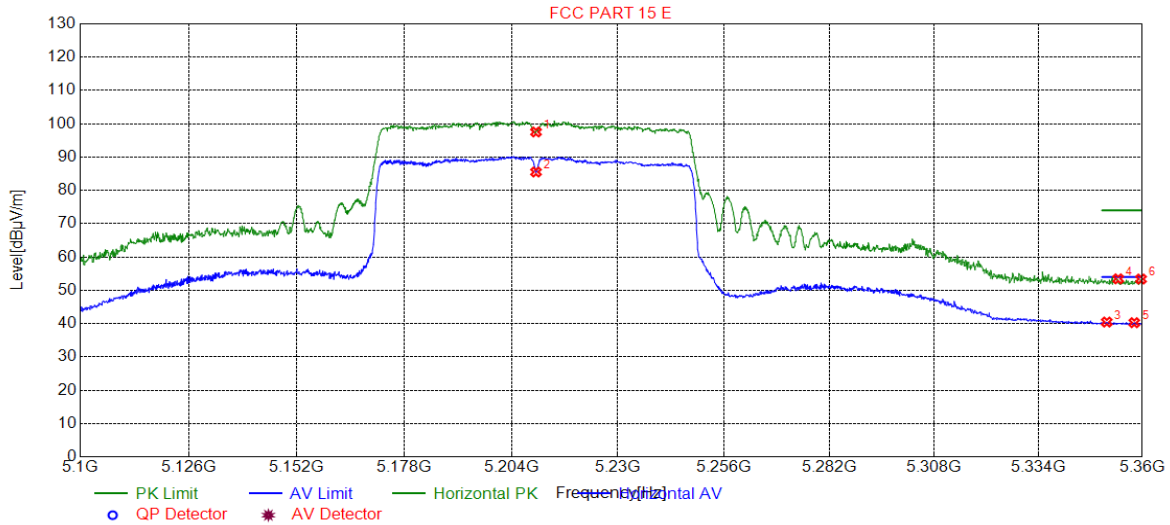
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4.10.1.83 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	97.54	15.56	0.00	-97.54	236	253	Horizontal
2	5210.00	85.52	15.56	0.00	-85.52	231	260	Horizontal
3	5351.15	40.49	15.95	54.00	13.51	112	273	Horizontal
4	5354.01	53.46	15.96	74.00	20.54	248	36	Horizontal
5	5358.04	40.30	15.99	54.00	13.70	242	273	Horizontal
6	5359.73	53.40	16.00	74.00	20.60	153	36	Horizontal

Final Data List

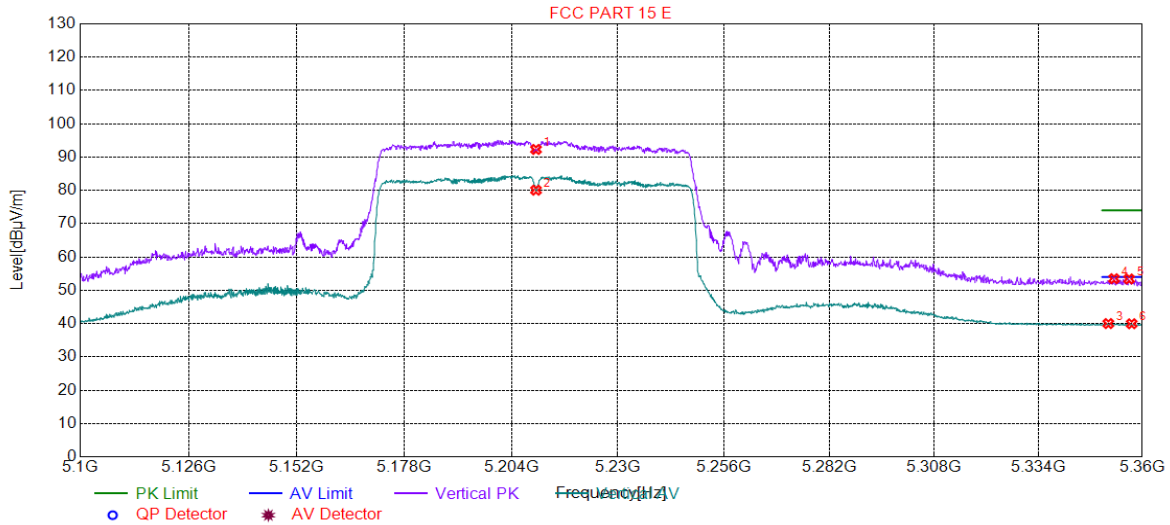


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4.10.1.84 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.00	92.30	15.56	0.00	-92.30	173	154	Vertical
2	5210.00	80.07	15.56	0.00	-80.07	212	154	Vertical
3	5351.54	40.04	15.95	54.00	13.96	212	330	Vertical
4	5352.97	53.51	15.96	74.00	20.49	172	344	Vertical
5	5356.74	53.42	15.98	74.00	20.58	289	25	Vertical
6	5357.39	39.98	15.99	54.00	14.02	230	337	Vertical

Final Data List

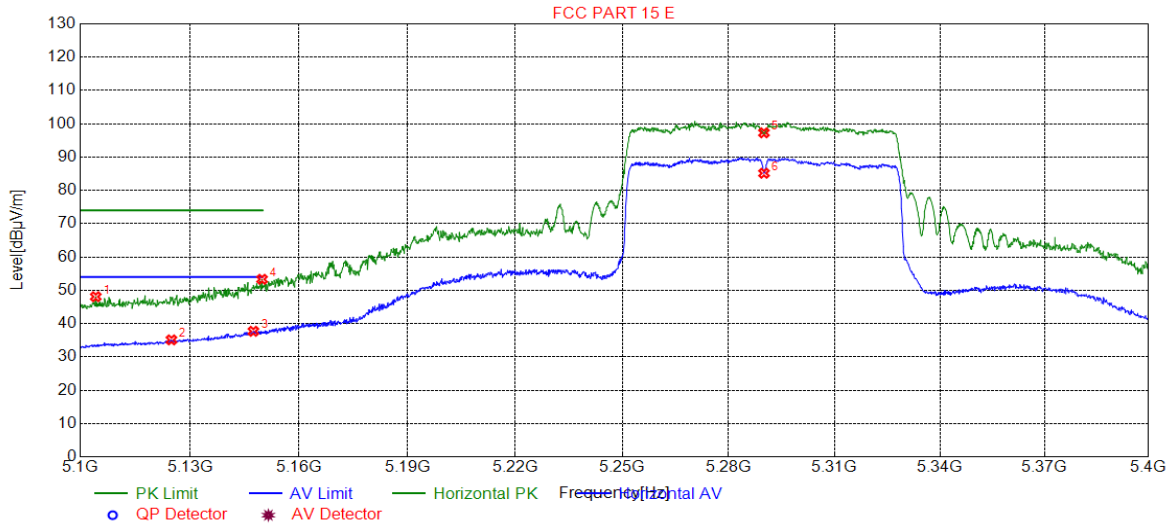


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4.10.1.85 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5104.20	48.10	15.13	74.00	25.90	209	271	Horizontal
2	5124.91	35.14	15.30	54.00	18.86	243	264	Horizontal
3	5147.42	37.72	15.50	54.00	16.28	249	264	Horizontal
4	5149.82	53.33	15.52	74.00	20.67	196	264	Horizontal
5	5290.00	97.29	15.65	0.00	-97.29	202	278	Horizontal
6	5290.00	85.15	15.65	0.00	-85.15	131	250	Horizontal

Final Data List

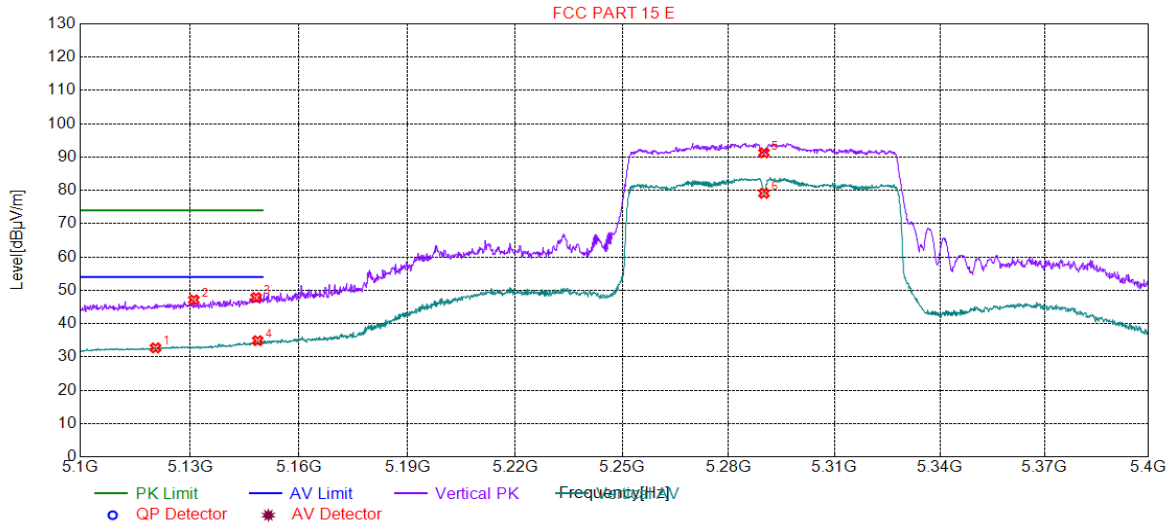


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4.10.1.86 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.56	32.74	15.27	54.00	21.26	176	43	Vertical
2	5131.06	47.16	15.36	74.00	26.84	245	77	Vertical
3	5148.17	47.85	15.50	74.00	26.15	190	152	Vertical
4	5148.62	34.90	15.51	54.00	19.10	289	36	Vertical
5	5290.00	91.29	15.65	0.00	-91.29	209	152	Vertical
6	5290.00	79.14	15.65	0.00	-79.14	269	160	Vertical

Final Data List

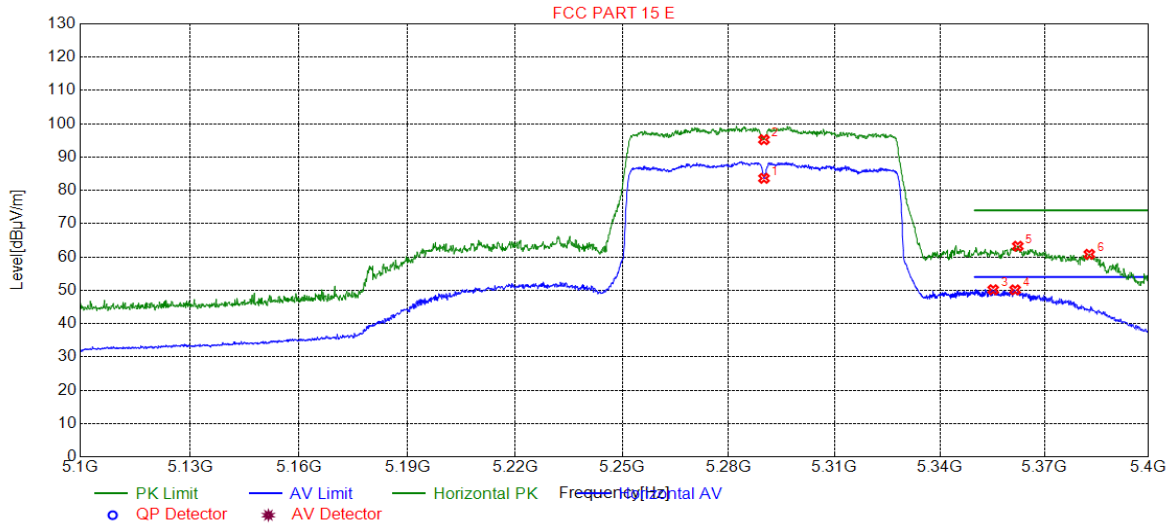


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4.10.1.87 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	83.63	15.65	0.00	-83.63	155	256	Horizontal
2	5290.00	95.23	15.65	0.00	-95.23	243	256	Horizontal
3	5355.27	50.18	15.97	54.00	3.82	246	270	Horizontal
4	5361.58	50.15	16.01	54.00	3.85	228	256	Horizontal
5	5362.33	63.25	16.02	74.00	10.75	224	262	Horizontal
6	5382.89	60.82	16.14	74.00	13.18	102	270	Horizontal

Final Data List

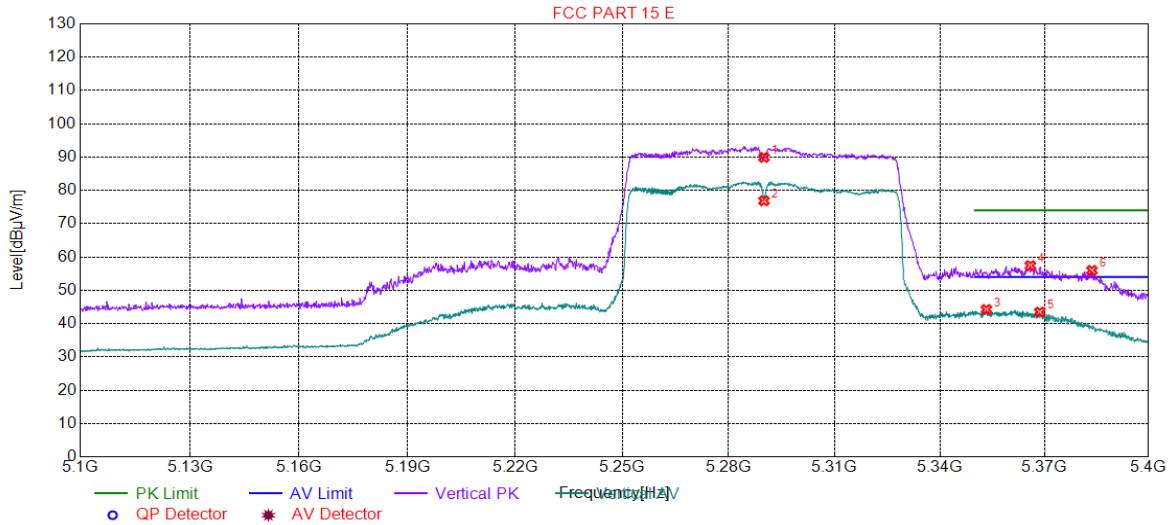


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4.10.1.88 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.00	89.91	15.65	0.00	-89.91	295	156	Vertical
2	5290.00	76.88	15.65	0.00	-76.88	237	108	Vertical
3	5353.32	44.26	15.96	54.00	9.74	222	45	Vertical
4	5365.93	57.45	16.04	74.00	16.55	160	87	Vertical
5	5368.63	43.49	16.06	54.00	10.51	299	87	Vertical
6	5383.64	56.01	16.15	74.00	17.99	152	30	Vertical

Final Data List

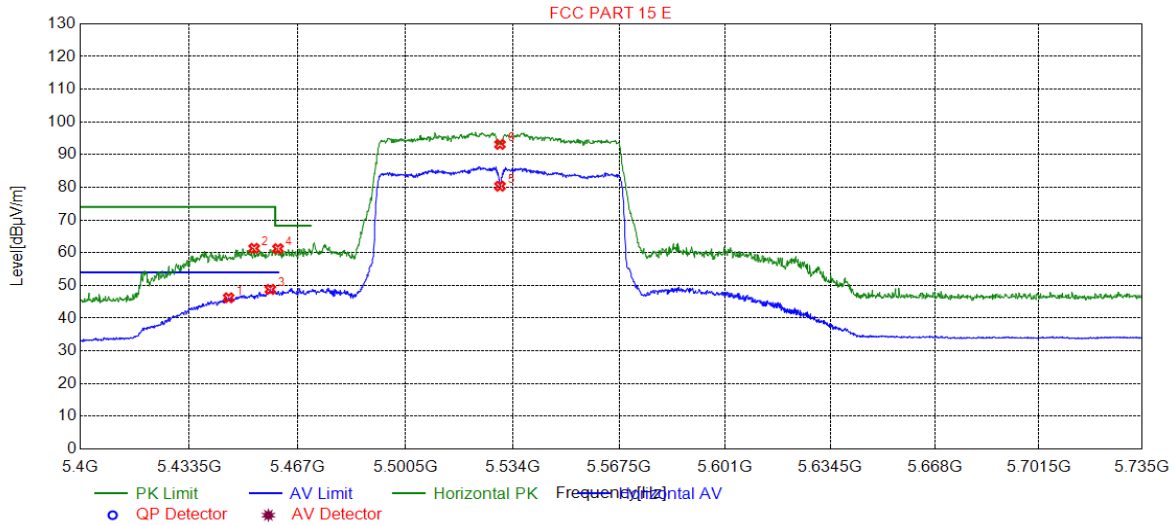


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4.10.1.89 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5445.58	46.24	16.25	54.00	7.76	149	264	Horizontal
2	5453.45	61.35	16.25	74.00	12.65	160	238	Horizontal
3	5458.48	48.80	16.25	54.00	5.20	208	245	Horizontal
4	5460.83	61.25	16.25	68.30	7.05	141	257	Horizontal
5	5530.00	80.35	16.35	0.00	-80.35	162	257	Horizontal
6	5530.00	93.14	16.35	0.00	-93.14	230	264	Horizontal

Final Data List

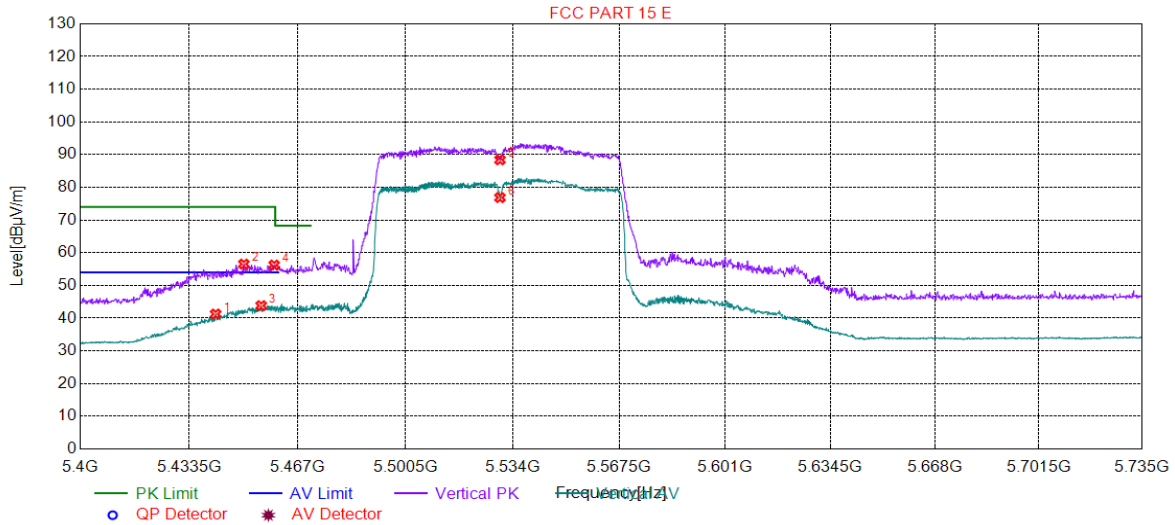


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4.10.1.90 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5441.56	41.27	16.25	54.00	12.73	216	96	Vertical
2	5450.27	56.55	16.25	74.00	17.45	157	96	Vertical
3	5455.63	43.84	16.25	54.00	10.16	281	96	Vertical
4	5459.65	56.25	16.25	74.00	17.75	222	96	Vertical
5	5530.00	88.41	16.35	0.00	-88.41	175	96	Vertical
6	5530.00	76.87	16.35	0.00	-76.87	272	96	Vertical

Final Data List

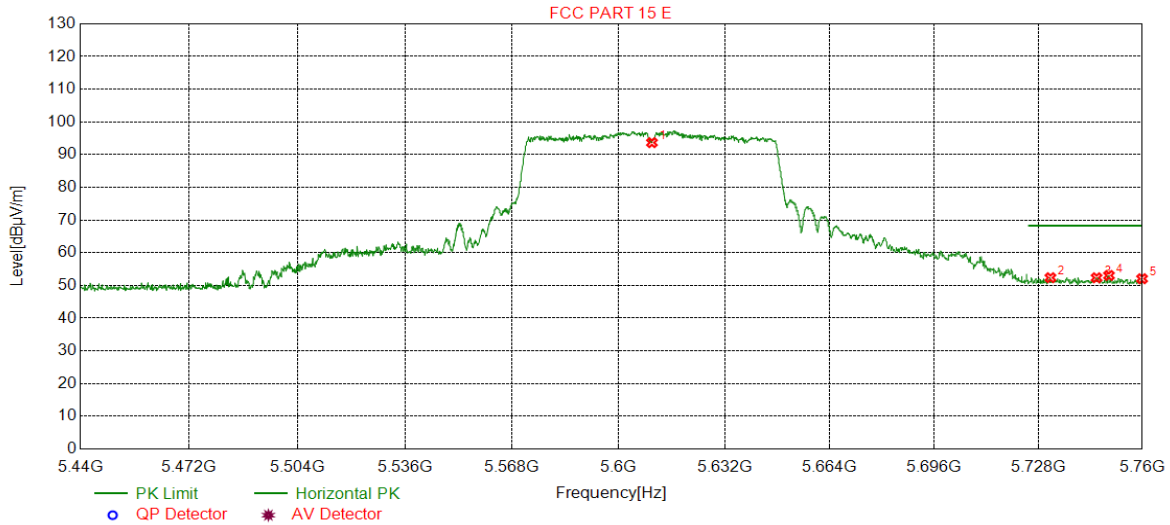


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4.10.1.91 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	93.67	16.58	0.00	-93.67	235	239	Horizontal
2	5731.66	52.38	17.00	68.30	15.92	105	267	Horizontal
3	5745.91	52.36	17.09	68.30	15.94	196	79	Horizontal
4	5749.75	53.05	17.12	68.30	15.25	244	106	Horizontal
5	5760.00	52.07	17.13	68.30	16.23	208	344	Horizontal

Final Data List

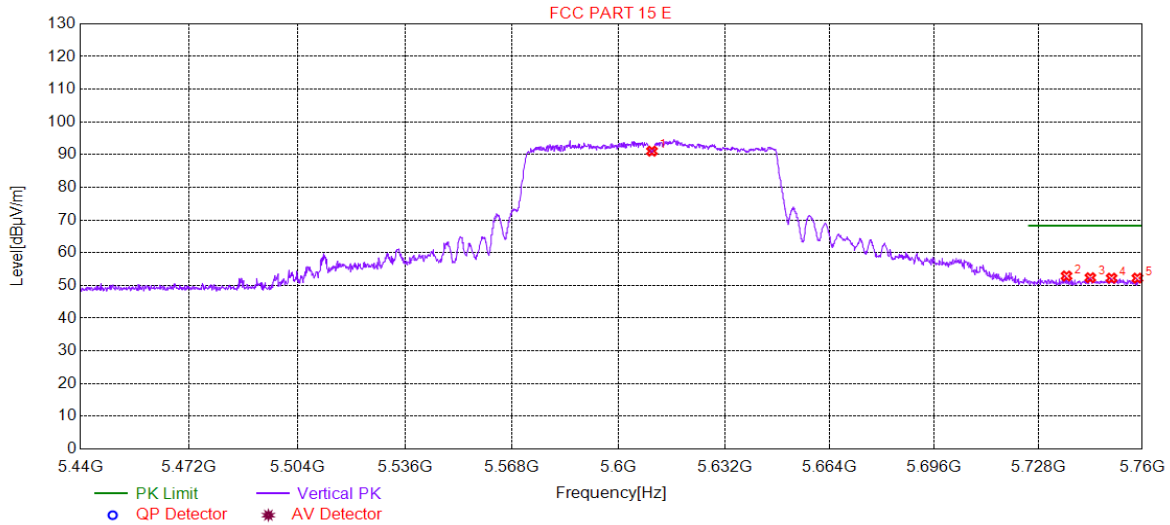


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4.10.1.92 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	91.07	16.58	0.00	-91.07	208	103	Vertical
2	5736.62	52.91	17.03	68.30	15.39	217	84	Vertical
3	5743.99	52.38	17.08	68.30	15.92	267	66	Vertical
4	5750.55	52.25	17.12	68.30	16.05	286	38	Vertical
5	5758.55	52.25	17.13	68.30	16.05	169	305	Vertical

Final Data List

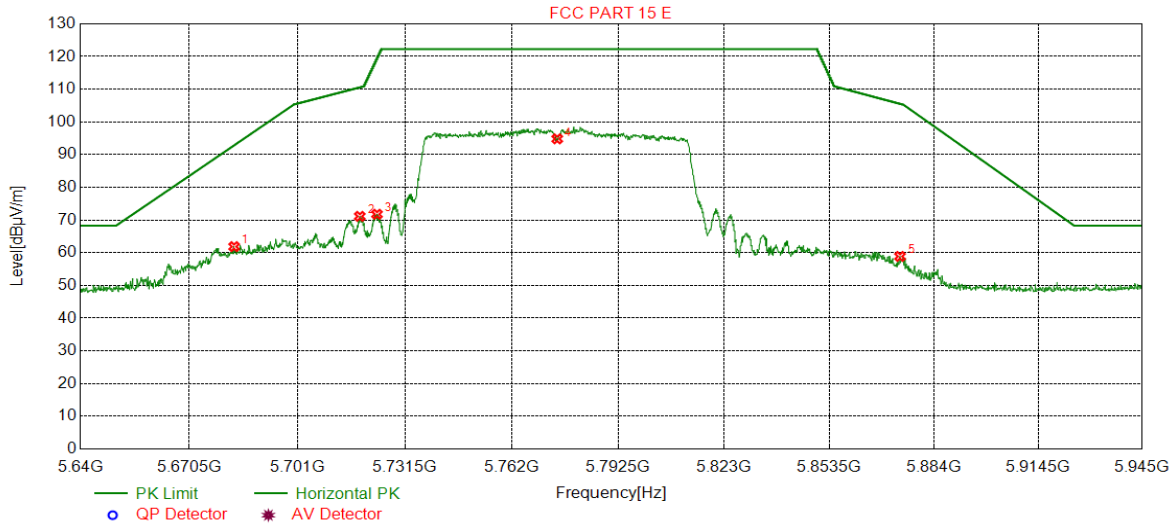


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4.10.1.93 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5683.17	61.88	16.71	92.85	30.97	197	263	Horizontal
2	5718.72	71.14	16.92	110.54	39.40	145	263	Horizontal
3	5723.61	71.79	16.95	119.13	47.34	223	263	Horizontal
4	5775.00	94.83	17.16	122.30	27.47	231	263	Horizontal
5	5874.05	58.89	17.19	105.57	46.68	121	263	Horizontal

Final Data List

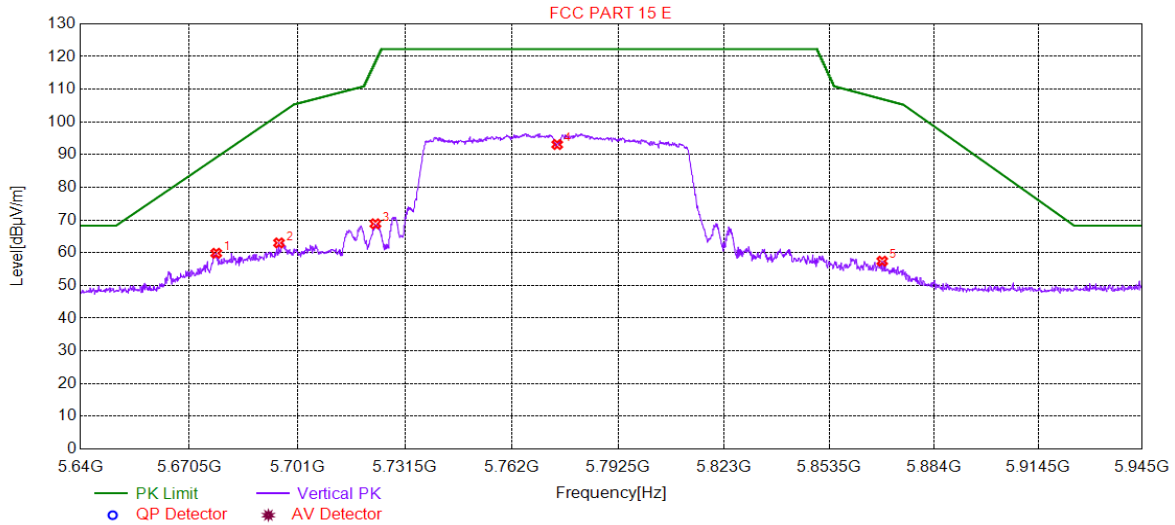


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4.10.1.94 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5678.14	59.86	16.68	89.13	29.27	225	66	Vertical
2	5695.84	63.02	16.78	102.22	39.20	153	66	Vertical
3	5723.15	68.86	16.95	118.09	49.23	179	98	Vertical
4	5775.00	93.10	17.16	122.30	29.20	163	70	Vertical
5	5868.86	57.44	17.20	107.02	49.58	154	66	Vertical

Final Data List

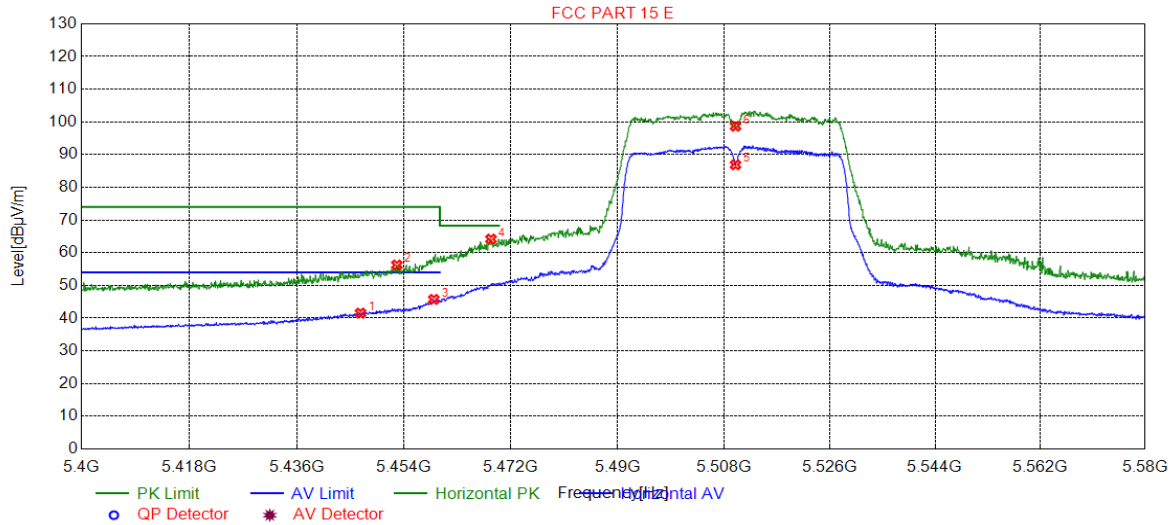


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4.10.1.95 802.11N40_Channel 102 (Spot check data)

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.64	41.55	16.25	54.00	12.45	133	214	Horizontal
2	5452.76	56.27	16.25	74.00	17.73	120	221	Horizontal
3	5458.97	45.74	16.25	54.00	8.26	149	214	Horizontal
4	5468.61	64.19	16.25	68.30	4.11	162	214	Horizontal
5	5510.00	86.90	16.28	0.00	-86.90	208	214	Horizontal
6	5510.00	98.69	16.28	0.00	-98.69	170	214	Horizontal

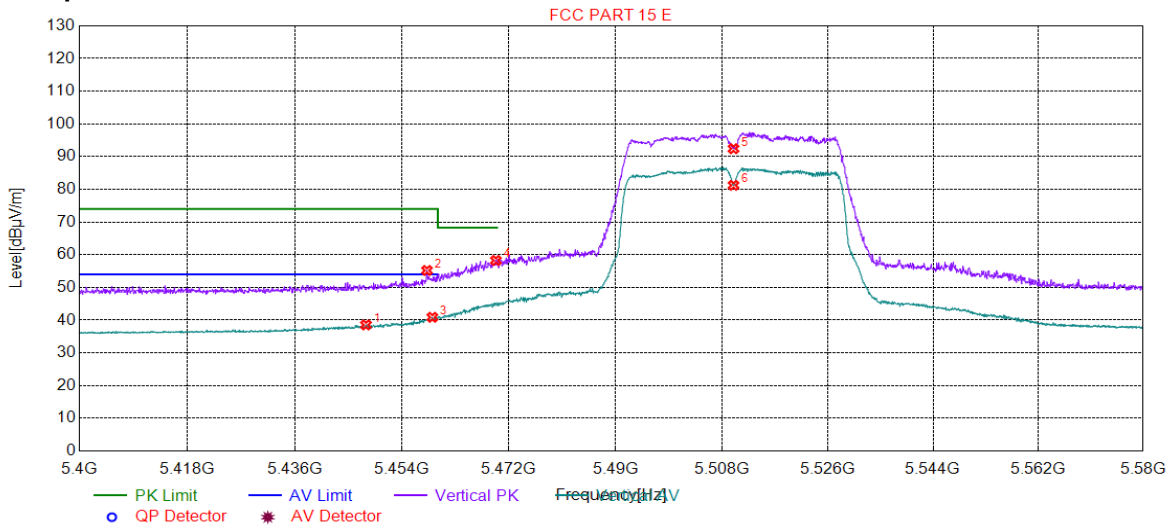
Final Data List



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4.10.1.96 802.11N40_Channel 102 Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.90	38.56	16.25	54.00	15.44	272	317	Vertical
2	5458.16	55.21	16.25	74.00	18.79	179	317	Vertical
3	5459.06	40.90	16.25	54.00	13.10	288	317	Vertical
4	5469.78	58.27	16.25	68.30	10.03	184	331	Vertical
5	5510.00	92.43	16.28	0.00	-92.43	215	324	Vertical
6	5510.00	81.23	16.28	0.00	-81.23	296	324	Vertical

Final Data List

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All modes have been tested, but only the worst case data displayed in this report.



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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5805
V nom(V)	5180.009852	5805.004923
V max(V)	5180.016965	5805.012364
V min(V)	5180.024723	5805.013668
Max. Deviation Frequency	0.024723	0.013668
Max. Frequency Error (ppm)	4.772718	2.346460

4.11.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5805
-5	5180.009301	5805.009645
5	5180.015326	5805.015632
15	5180.024344	5805.023441
25	5180.025248	5805.030955
35	5180.028218	5805.037671
45	5180.031425	5805.040419
50	5180.034367	5805.041676
Max. Deviation Frequency	0.034367	0.041676
Max. Frequency Error (ppm)	6.634544	7.154677



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
<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>		



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>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>	

4.12.3 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>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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4.12.1 Test Result

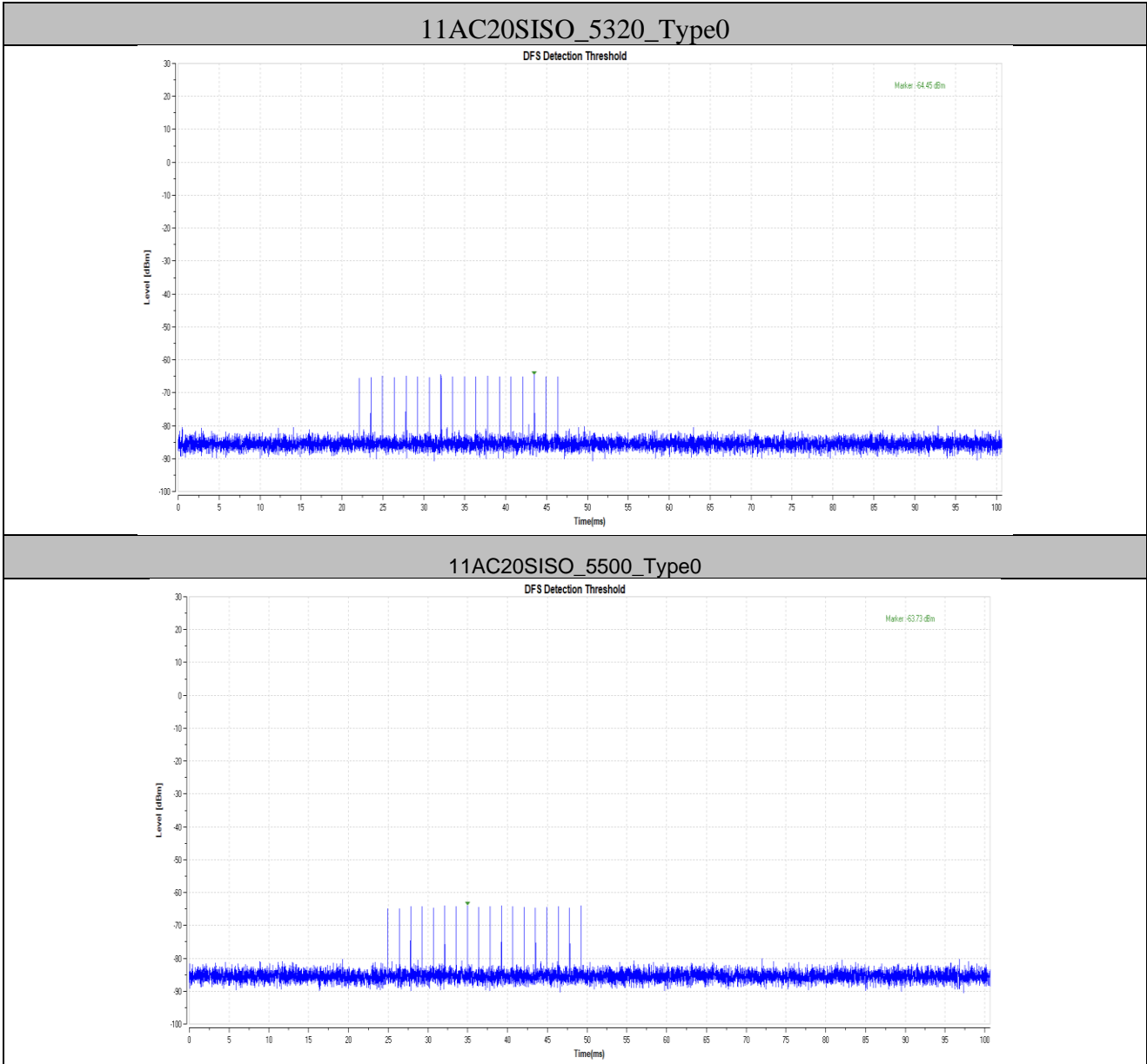
TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-64.45	-61.00	PASS
	5500	Type0	-63.73	-61.00	PASS
11AC80SISO	5290	Type0	-63.88	-61.00	PASS
	5530	Type0	-63.83	-61.00	PASS



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4.12.2 Test Graphs

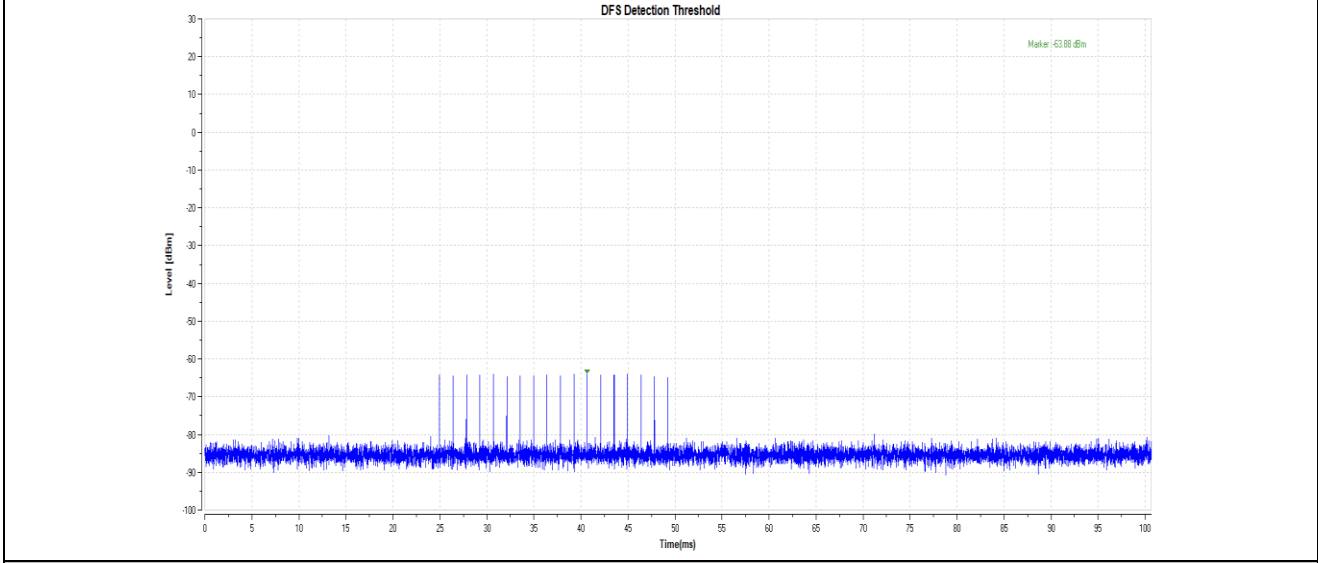


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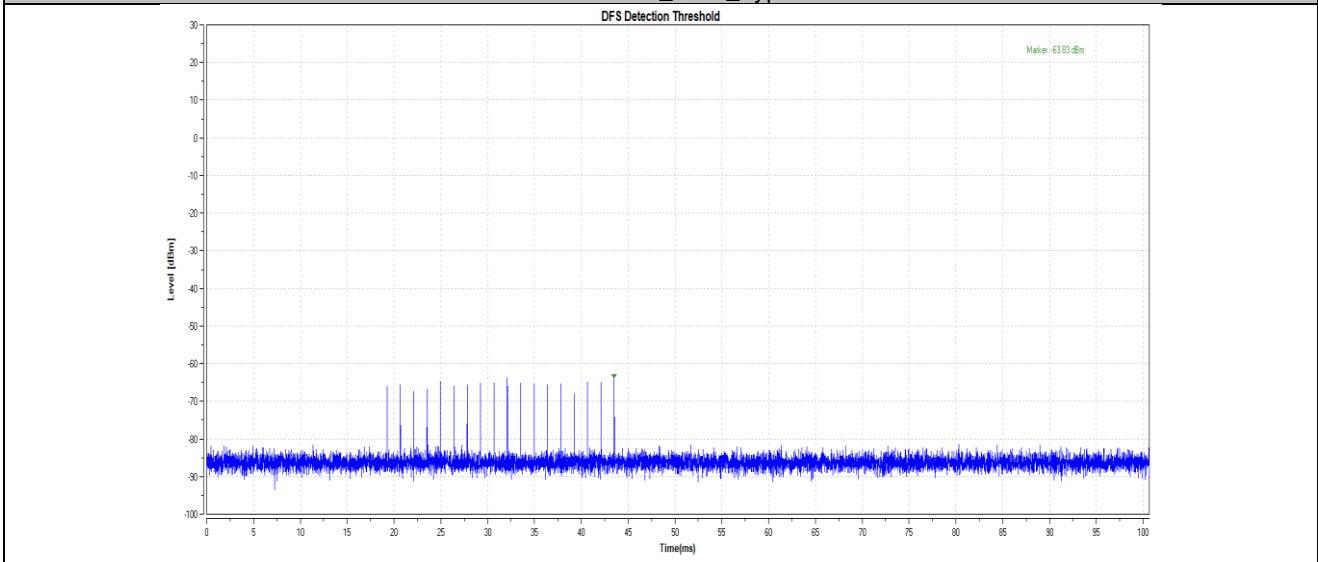
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

11AC80SISO_5290_Type0



11AC80SISO_5530_Type0



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**4.12.2.1 Channel Move Time and Channel Closing Transmission Time
4.12.1 Test Result**

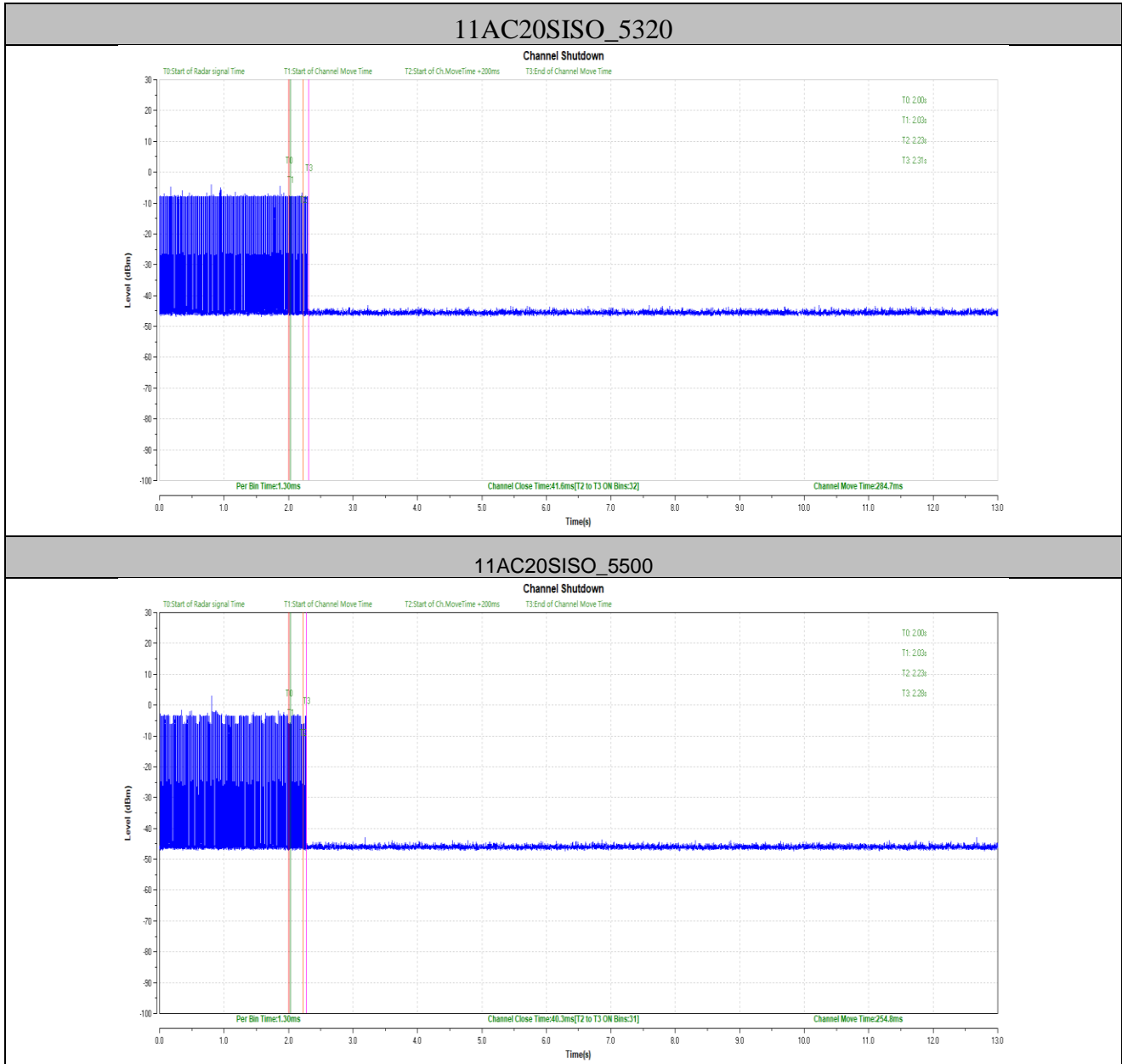
TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	41.6	60	284.7	10000	PASS
	5500	40.3	60	254.8	10000	PASS
11AC80SISO	5290	0	60	161.2	10000	PASS
	5530	53.3	60	343.2	10000	PASS



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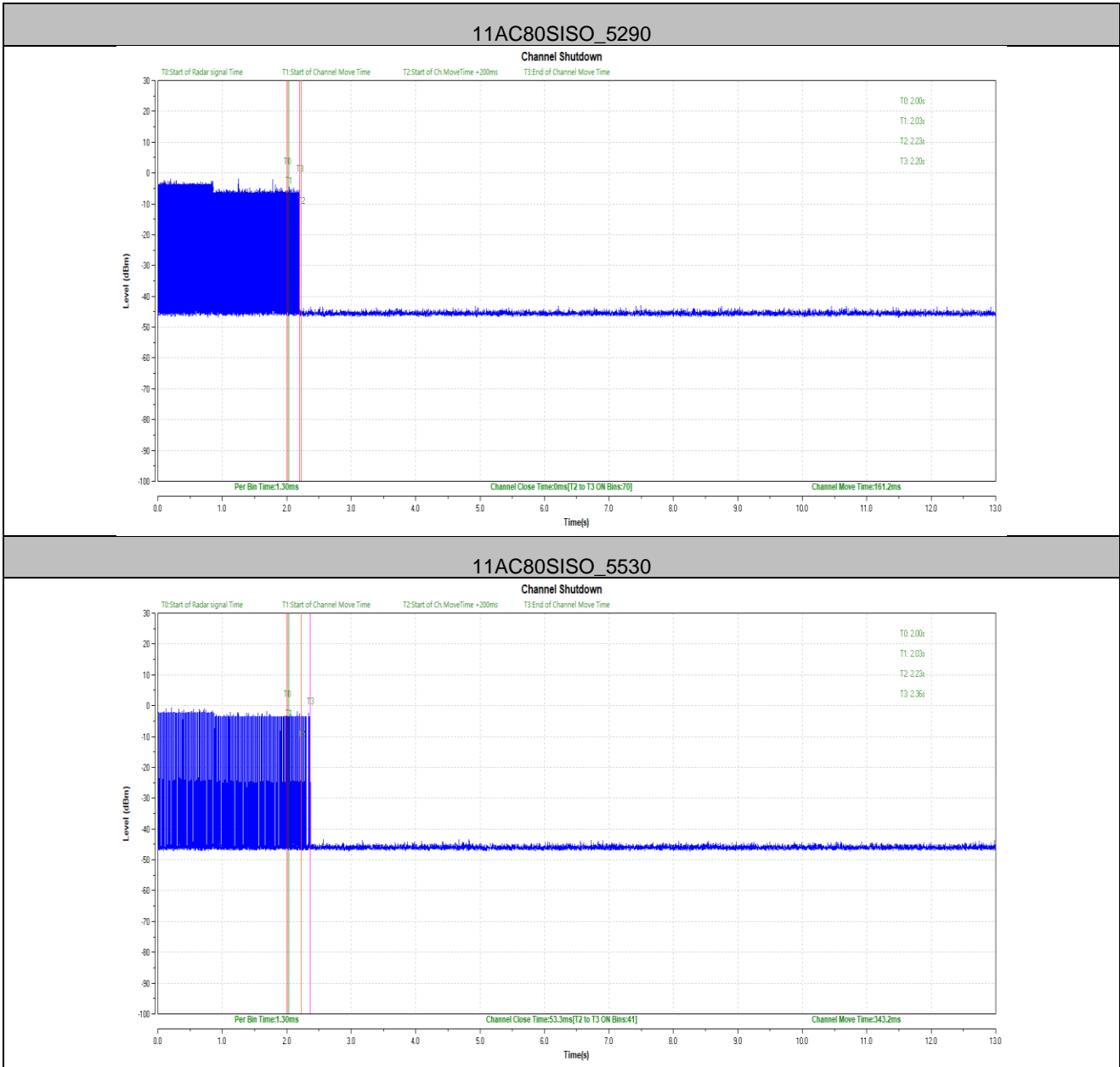
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4.12.2 Test Graphs



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4.12.3 Non-Occupancy Period Test Result

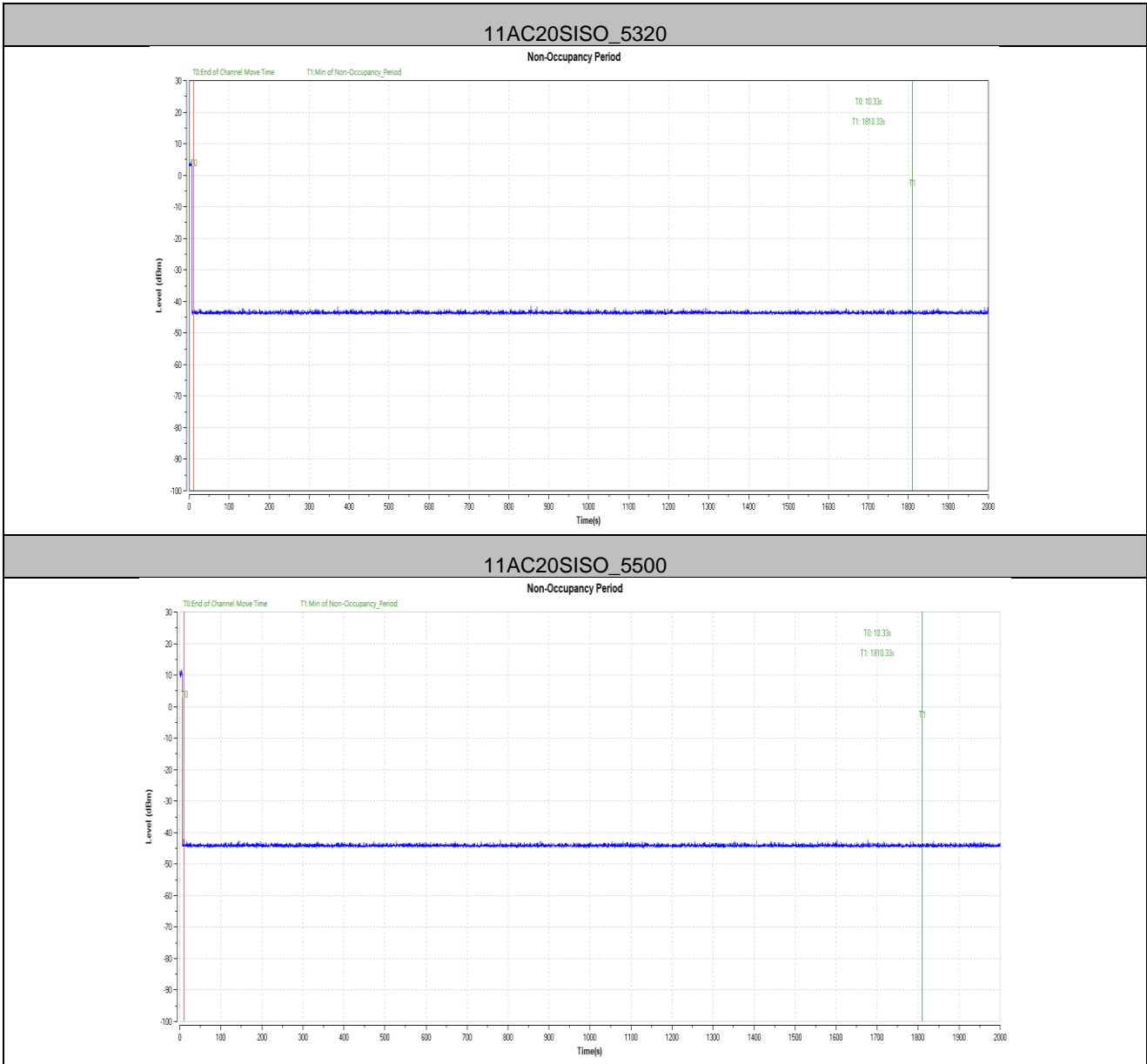
TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS



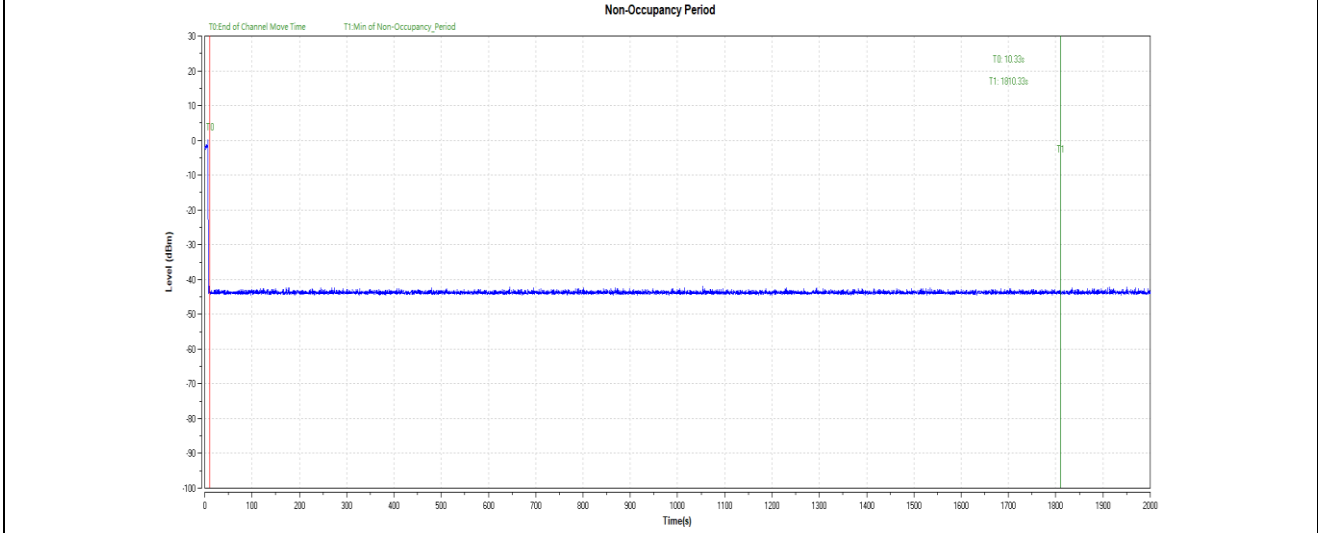
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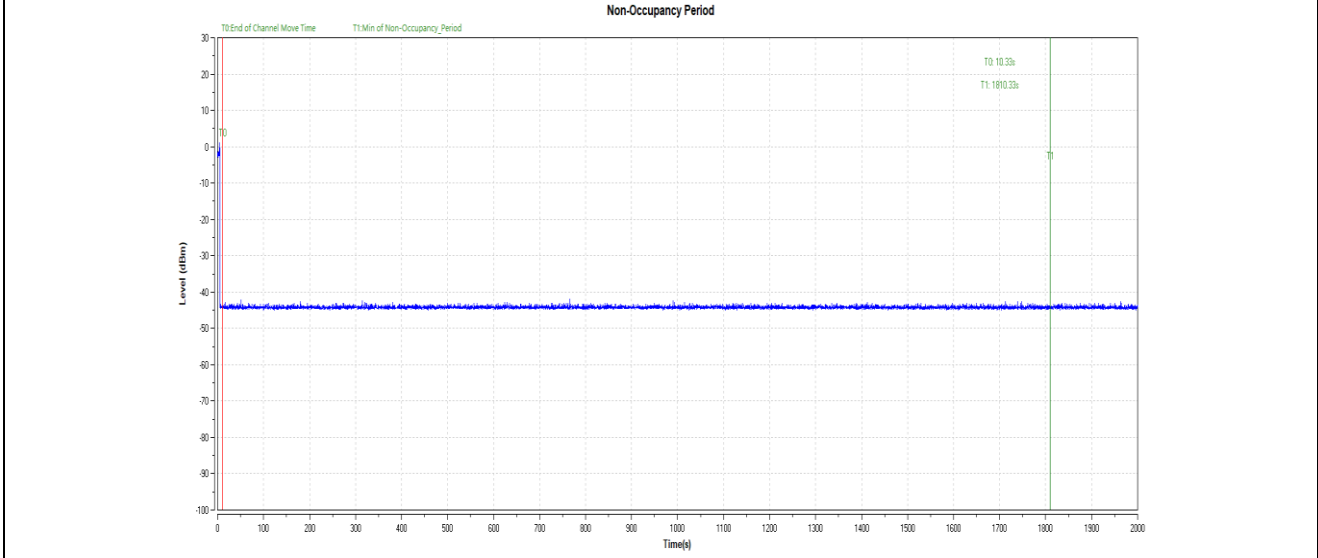
4.12.4 Test Graphs



11AC80SISO_5290



11AC80SISO_5530



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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduct emission test	± 3.0dB (150kHz to 30MHz)
2	Radiated Spurious emission test	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



6 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter Measurement Software	MingGao	TH101B	XAW01-01-01	2019-11-28	2020-11-28
	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

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	2020/7/14	2021/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2020-04-15	2021-04-14
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12



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Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-11-28	2020-11-28
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for AR/2020/A0007.

The End

