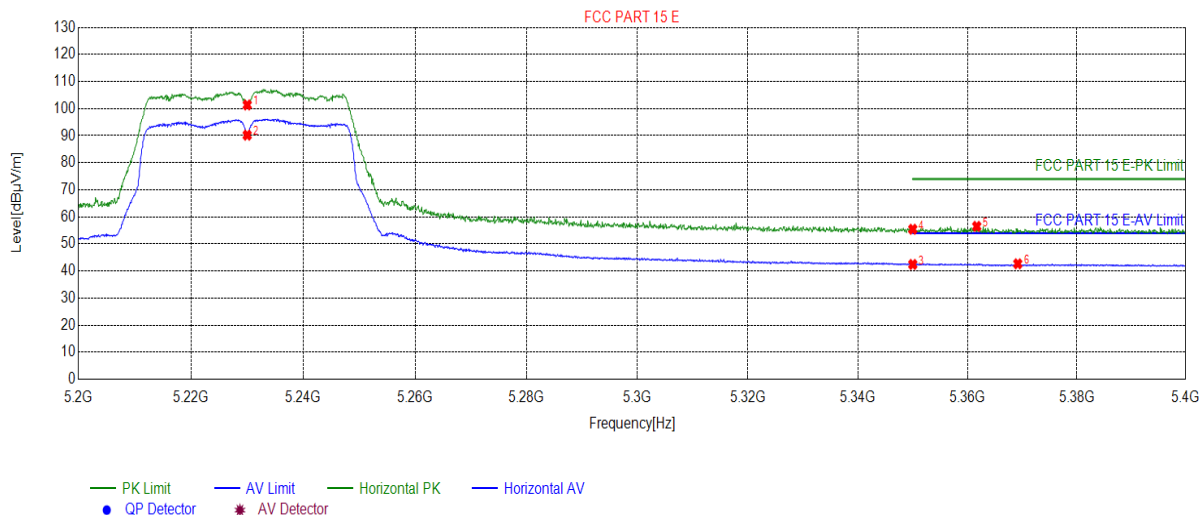


4.10.1.35 802.11N40_Channel 46 MIMO

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	101.34	18.94	0.00	-101.34	155	17	Horizontal
2	5230.00	90.19	18.94	0.00	-90.19	167	22	Horizontal
3	5350.00	42.44	18.54	54.00	11.56	198	31	Horizontal
4	5350.00	55.43	18.54	74.00	18.57	176	12	Horizontal
5	5361.68	56.49	18.54	74.00	17.51	203	60	Horizontal
6	5369.18	42.67	18.45	54.00	11.33	168	26	Horizontal

Final Data List

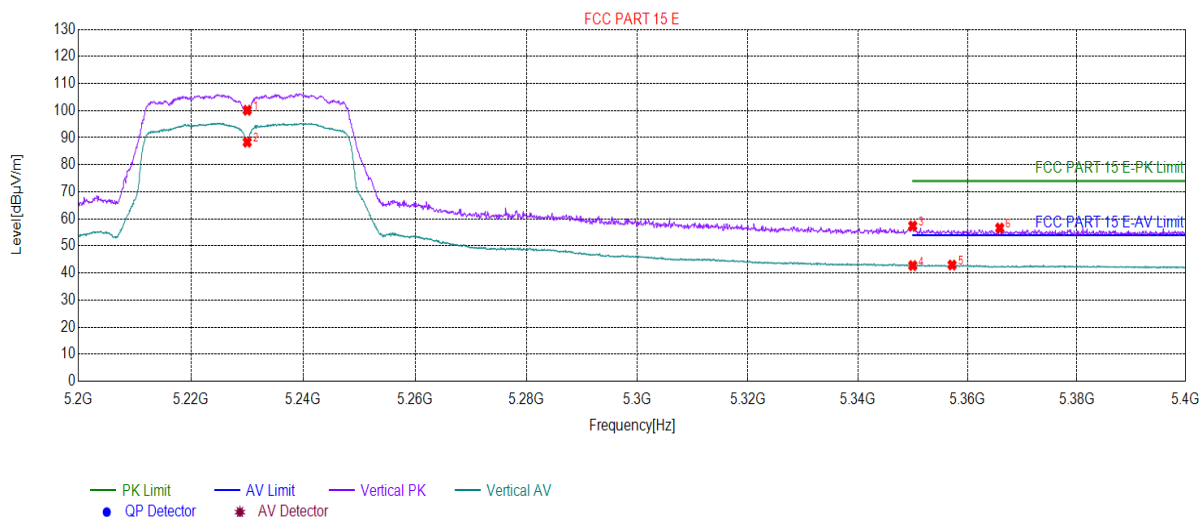


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4.10.1.36 802.11N40_Channel 46 MIMO

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	100.12	18.94	0.00	-100.12	204	312	Vertical
2	5230.00	88.33	18.94	0.00	-88.33	231	312	Vertical
3	5350.00	57.42	18.54	74.00	16.58	275	345	Vertical
4	5350.00	42.76	18.54	54.00	11.24	263	354	Vertical
5	5357.17	42.95	18.57	54.00	11.05	305	16	Vertical
6	5365.88	56.61	18.43	74.00	17.39	246	59	Vertical

Final Data List

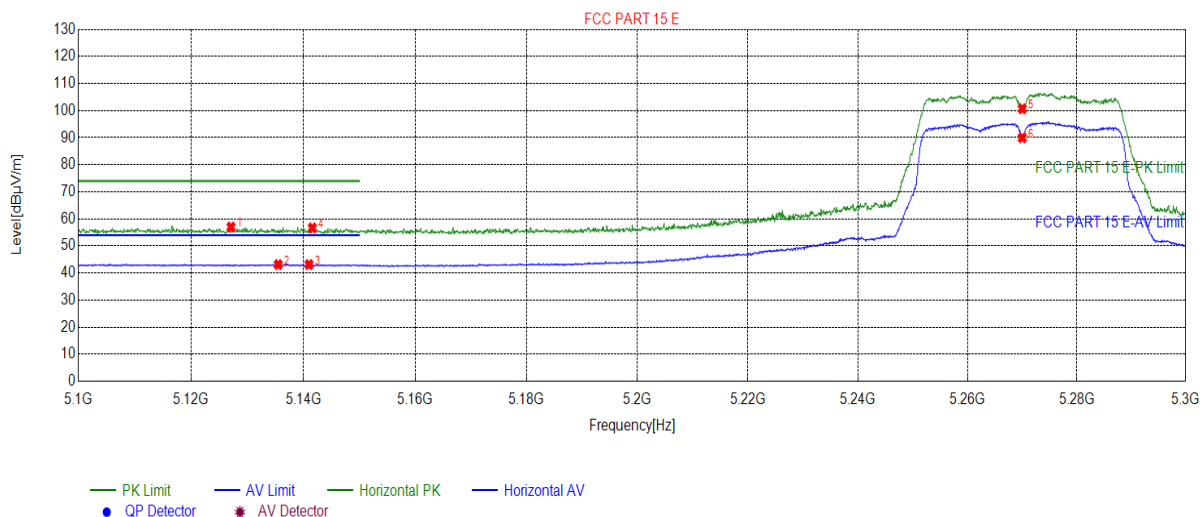


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4.10.1.37 802.11N40_Channel 54 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5127.11	57.00	19.34	74.00	17.00	157	288	Horizontal
2	5135.51	43.11	19.41	54.00	10.89	186	57	Horizontal
3	5141.02	43.13	19.34	54.00	10.87	169	62	Horizontal
4	5141.62	56.67	19.34	74.00	17.33	175	161	Horizontal
5	5270.00	100.68	18.63	0.00	-100.68	202	20	Horizontal
6	5270.00	89.98	18.63	0.00	-89.98	189	20	Horizontal

Final Data List



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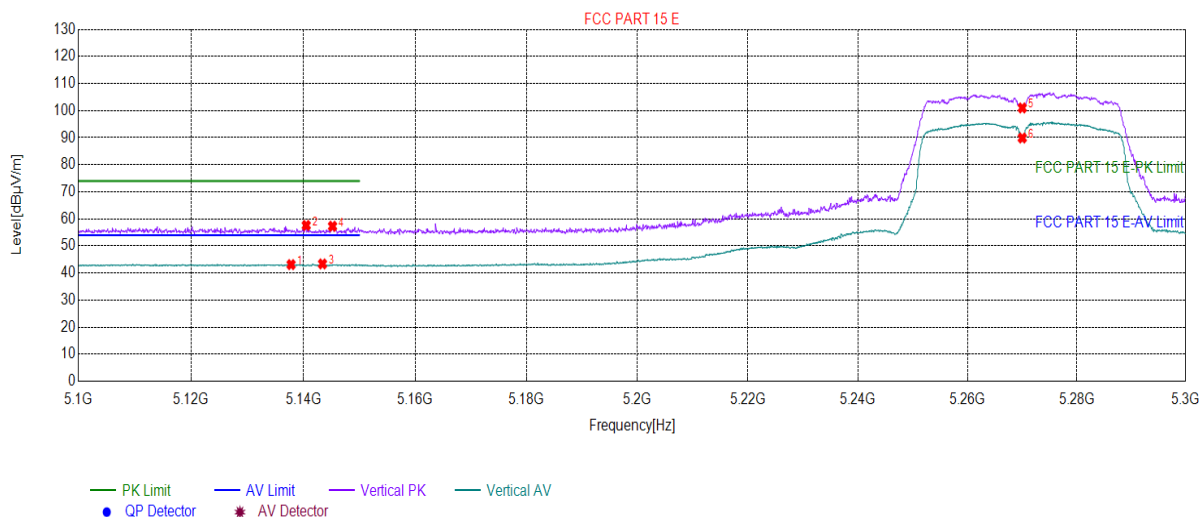
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4.10.1.38 802.11N40_Channel 54 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5137.81	43.11	19.37	54.00	10.89	256	175	Vertical
2	5140.52	57.59	19.34	74.00	16.41	245	16	Vertical
3	5143.42	43.36	19.33	54.00	10.64	263	320	Vertical
4	5145.22	57.28	19.32	74.00	16.72	274	16	Vertical
5	5270.00	100.97	18.63	0.00	-100.97	283	306	Vertical
6	5270.00	89.89	18.63	0.00	-89.89	306	311	Vertical

Final Data List

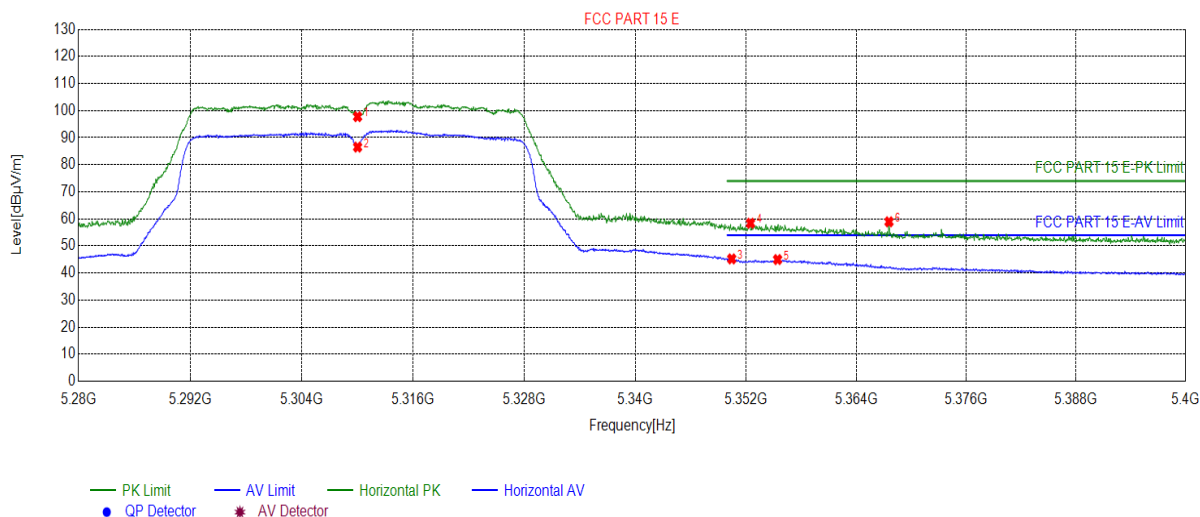


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4.10.1.39 802.11N40_Channel 62 MIMO

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	97.75	18.57	0.00	-97.75	157	25	Horizontal
2	5310.00	86.51	18.57	0.00	-86.51	186	17	Horizontal
3	5350.47	45.22	18.54	54.00	8.78	196	66	Horizontal
4	5352.51	58.40	18.54	74.00	15.60	173	29	Horizontal
5	5355.45	44.98	18.55	54.00	9.02	201	33	Horizontal
6	5367.58	58.93	18.44	74.00	15.07	186	123	Horizontal

Final Data List

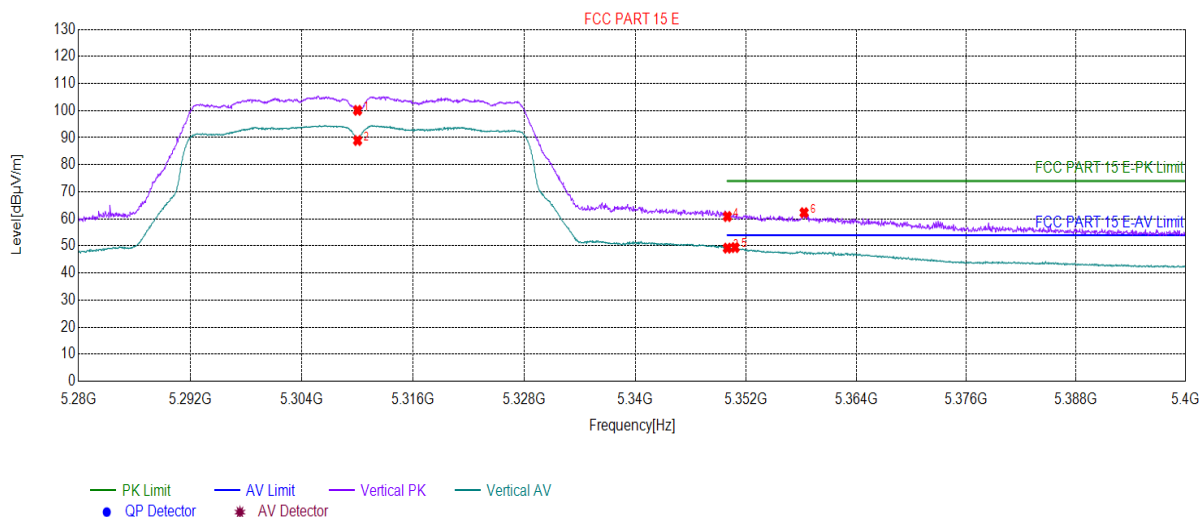


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4.10.1.40 802.11N40_Channel 62 MIMO

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	100.09	18.57	0.00	-100.09	256	357	Vertical
2	5310.00	88.96	18.57	0.00	-88.96	243	353	Vertical
3	5350.00	49.19	18.54	54.00	4.81	275	346	Vertical
4	5350.00	60.89	18.54	74.00	13.11	256	339	Vertical
5	5350.83	49.41	18.54	54.00	4.59	222	346	Vertical
6	5358.33	62.30	18.58	74.00	11.70	316	346	Vertical

Final Data List

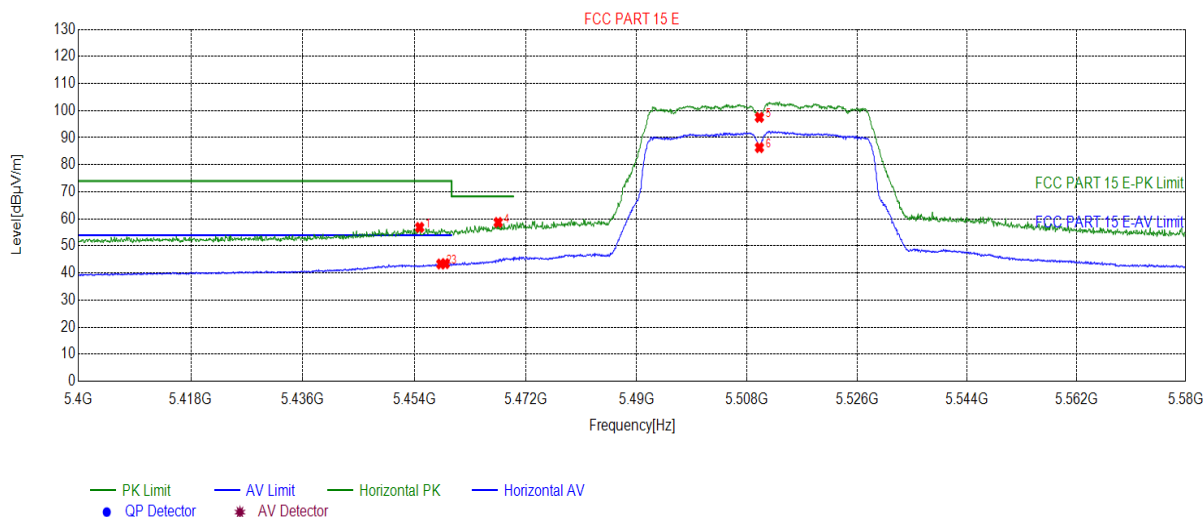


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4.10.1.41 802.11N40_Channel 102 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5454.83	56.84	18.06	74.00	17.16	159	70	Horizontal
2	5458.25	43.33	18.10	54.00	10.67	176	25	Horizontal
3	5458.97	43.49	18.11	54.00	10.51	198	25	Horizontal
4	5467.53	58.69	18.20	68.30	9.61	169	70	Horizontal
5	5510.00	97.51	18.08	0.00	-97.51	179	67	Horizontal
6	5510.00	86.32	18.08	0.00	-86.32	169	59	Horizontal

Final Data List

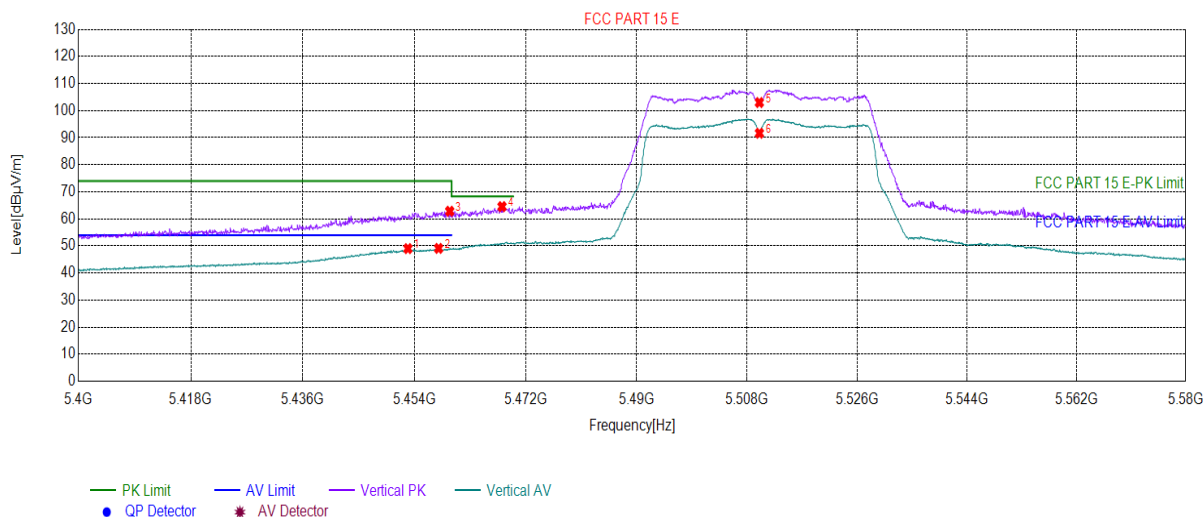


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4.10.1.42 802.11N40_Channel 102 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5452.94	49.03	18.08	54.00	4.97	204	346	Vertical
2	5457.89	49.11	18.10	54.00	4.89	169	4	Vertical
3	5459.69	62.83	18.12	74.00	11.17	278	346	Vertical
4	5468.16	64.53	18.20	68.30	3.77	198	346	Vertical
5	5510.00	102.98	18.08	0.00	-102.98	302	346	Vertical
6	5510.00	91.64	18.08	0.00	-91.64	247	346	Vertical

Final Data List

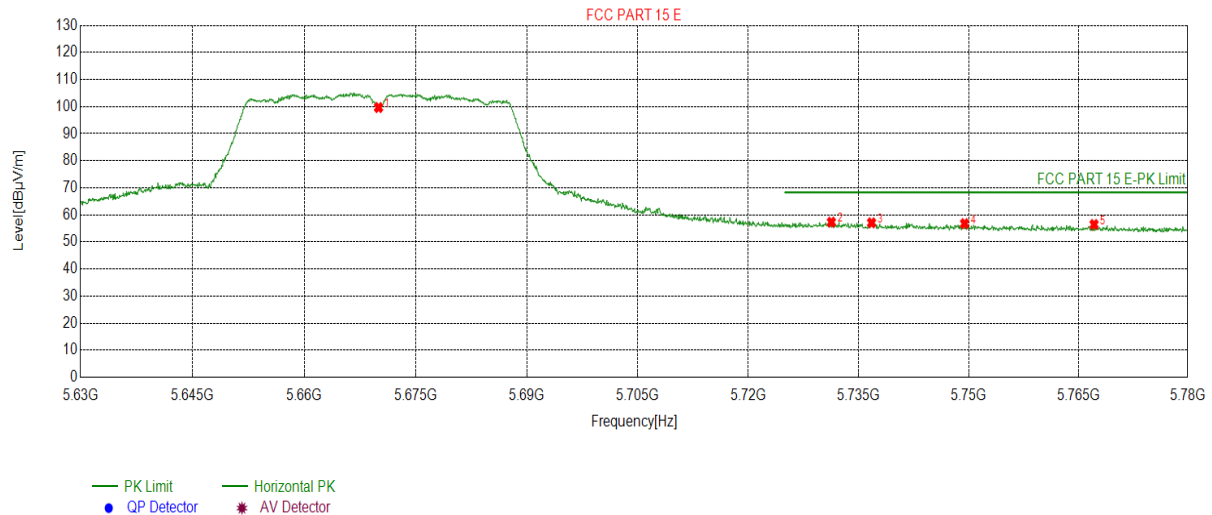


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4.10.1.43 802.11N40_Channel 134 MIMO

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	99.65	18.24	0.00	-99.65	203	42	Horizontal
2	5731.30	57.31	18.48	68.30	10.99	189	16	Horizontal
3	5736.77	57.07	18.37	68.30	11.23	196	28	Horizontal
4	5749.45	56.76	18.59	68.30	11.54	176	19	Horizontal
5	5767.16	56.46	18.38	68.30	11.84	149	332	Horizontal

Final Data List

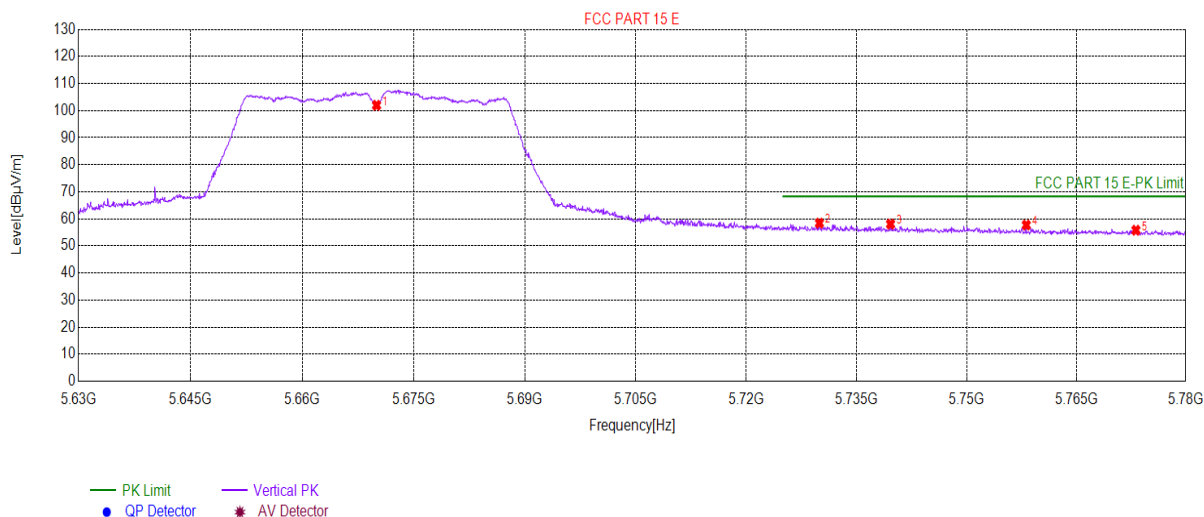


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4.10.1.44 802.11N40_Channel 134 MIMO

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	101.96	18.24	0.00	-101.96	159	0	Vertical
2	5729.95	58.42	18.50	68.30	9.88	176	2	Vertical
3	5739.62	58.07	18.33	68.30	10.23	203	346	Vertical
4	5758.16	57.72	18.36	68.30	10.58	175	346	Vertical
5	5773.17	55.81	18.36	68.30	12.49	156	301	Vertical

Final Data List

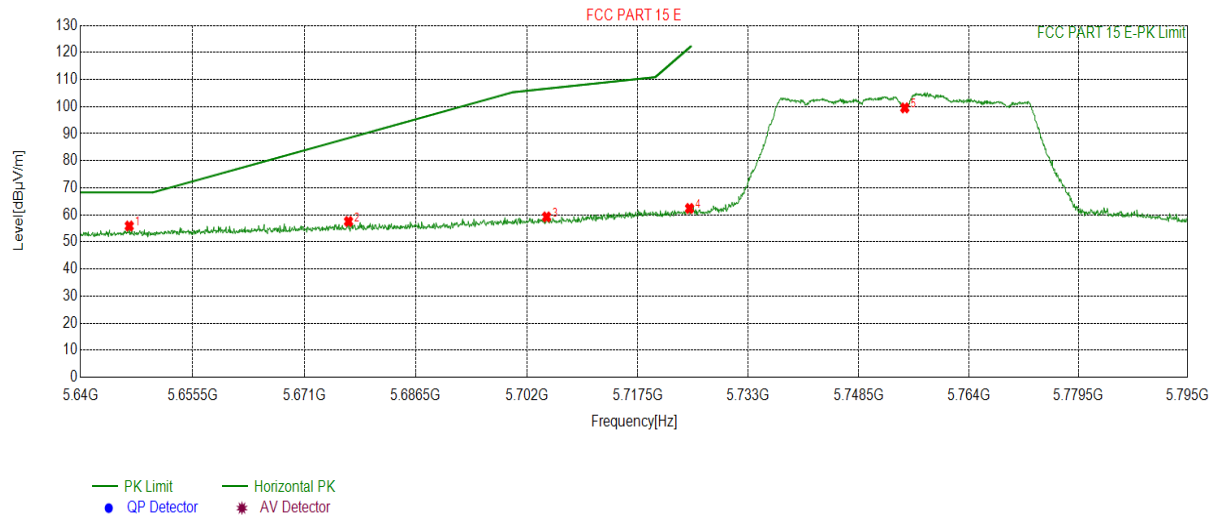


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4.10.1.45 802.11N40_Channel 151 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.74	55.88	17.98	68.30	12.42	169	20	Horizontal
2	5677.14	57.56	18.25	88.38	30.82	176	34	Horizontal
3	5704.74	59.25	18.31	106.63	47.38	189	28	Horizontal
4	5724.74	62.38	18.32	121.73	59.35	163	34	Horizontal
5	5755.00	99.52	18.39	0.00	-99.52	199	28	Horizontal

Final Data List



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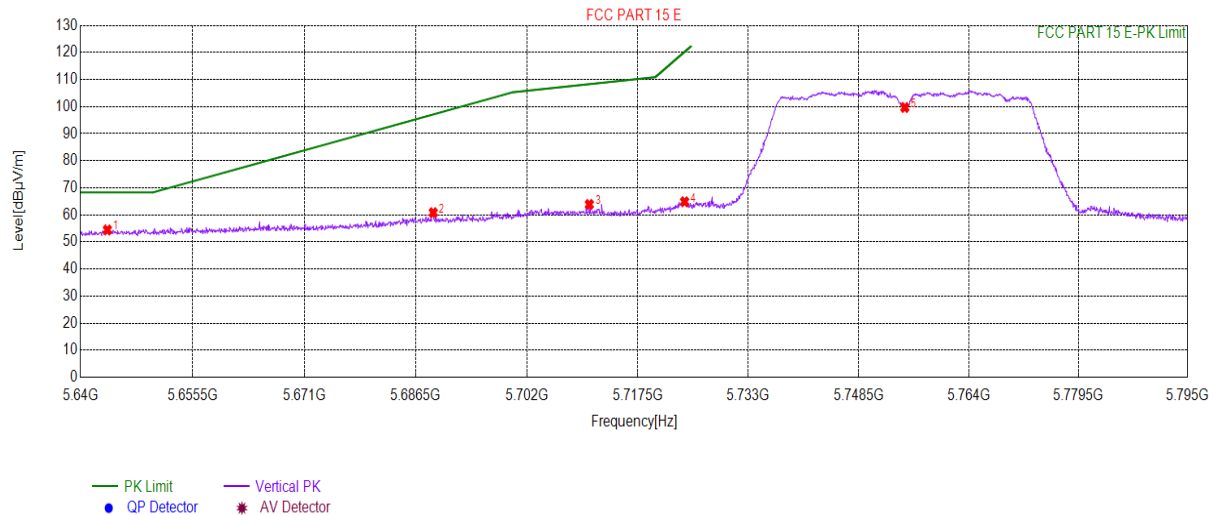
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4.10.1.46 802.11N40_Channel 151 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5643.72	54.45	18.03	68.30	13.85	163	325	Vertical
2	5688.92	60.81	18.21	97.11	36.30	189	16	Vertical
3	5710.71	63.87	18.52	108.30	44.43	203	16	Vertical
4	5724.05	64.85	18.33	120.14	55.29	207	16	Vertical
5	5755.00	99.68	18.39	0.00	-99.68	211	336	Vertical

Final Data List



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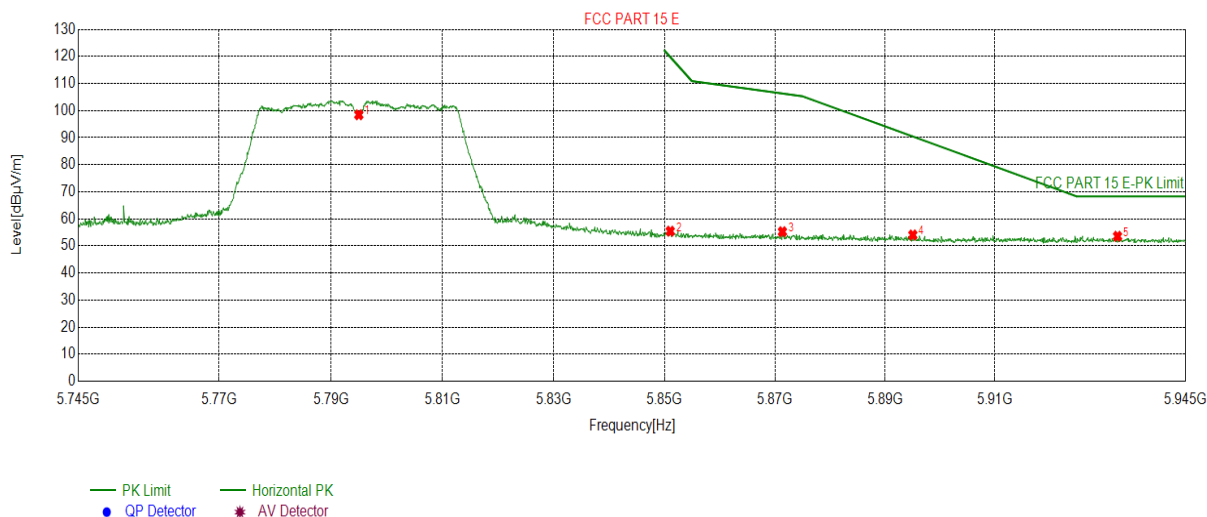
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4.10.1.47 802.11N40_Channel 159 MIMO

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	98.46	18.58	0.00	-98.46	136	58	Horizontal
2	5851.05	55.45	18.75	119.90	64.45	186	31	Horizontal
3	5871.36	55.25	18.86	106.32	51.07	179	334	Horizontal
4	5895.07	54.06	18.89	90.44	36.38	136	334	Horizontal
5	5932.49	53.56	19.12	68.30	14.74	175	76	Horizontal

Final Data List

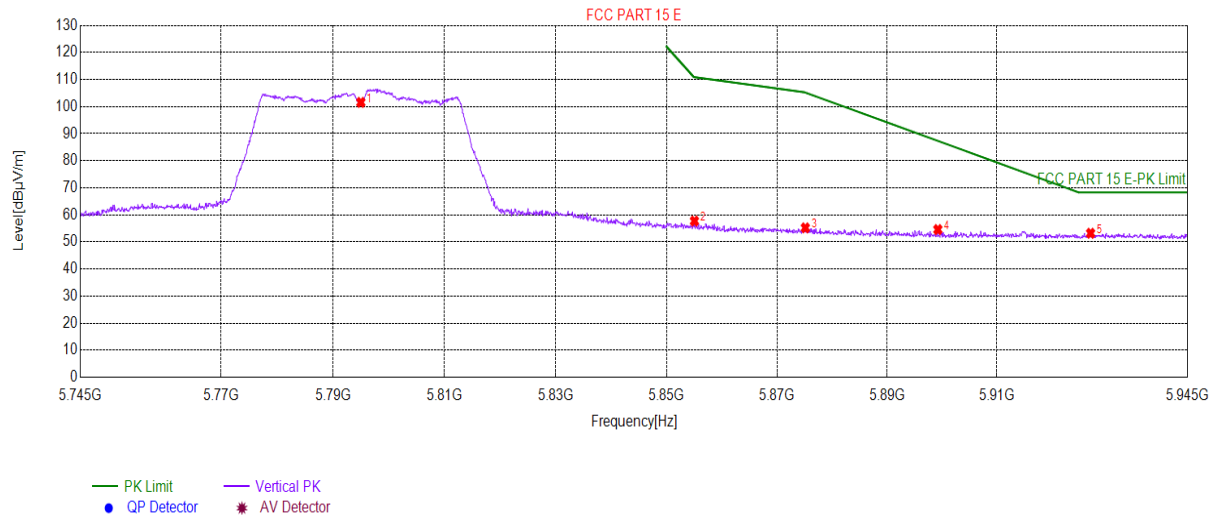


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4.10.1.48 802.11N40_Channel 159 MIMO

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	101.55	18.58	0.00	-101.55	150	16	Vertical
2	5855.05	57.72	18.66	110.88	53.16	150	316	Vertical
3	5875.16	55.20	18.71	105.18	49.98	150	16	Vertical
4	5899.27	54.58	18.70	87.33	32.75	150	16	Vertical
5	5927.19	53.20	19.13	68.30	15.10	150	330	Vertical

Final Data List



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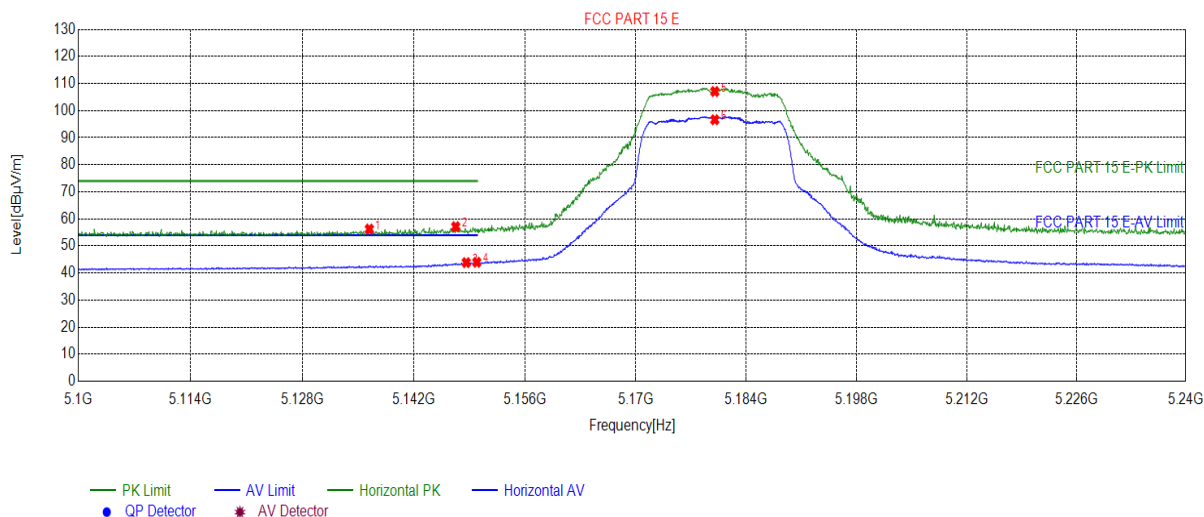
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4.10.1.49 802.11AC20_Channel 36 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5136.41	56.22	19.39	74.00	17.78	202	171	Horizontal
2	5147.27	57.12	19.33	74.00	16.88	156	43	Horizontal
3	5148.60	43.84	19.33	54.00	10.16	214	25	Horizontal
4	5149.93	43.97	19.33	54.00	10.03	159	54	Horizontal
5	5180.00	107.05	19.19	0.00	-107.05	203	59	Horizontal
6	5180.00	96.62	19.19	0.00	-96.62	223	51	Horizontal

Final Data List



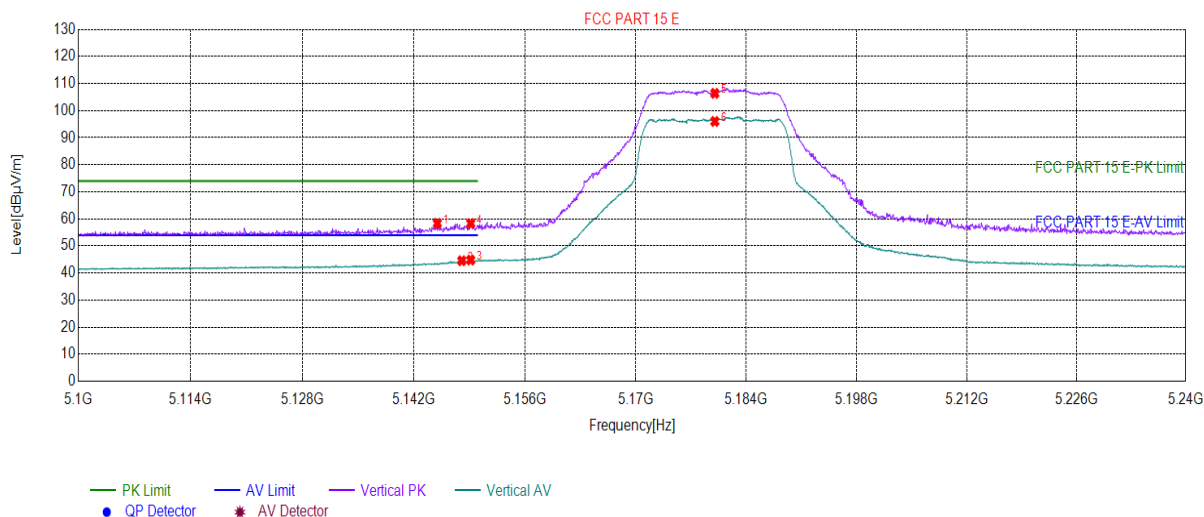
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4.10.1.50 802.11AC20_Channel 36 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.96	58.36	19.32	74.00	15.64	302	344	Vertical
2	5148.04	44.54	19.33	54.00	9.46	345	359	Vertical
3	5149.16	44.79	19.33	54.00	9.21	247	356	Vertical
4	5149.16	58.31	19.33	74.00	15.69	309	359	Vertical
5	5180.00	106.37	19.19	0.00	-106.37	245	335	Vertical
6	5180.00	96.00	19.19	0.00	-96.00	211	331	Vertical

Final Data List

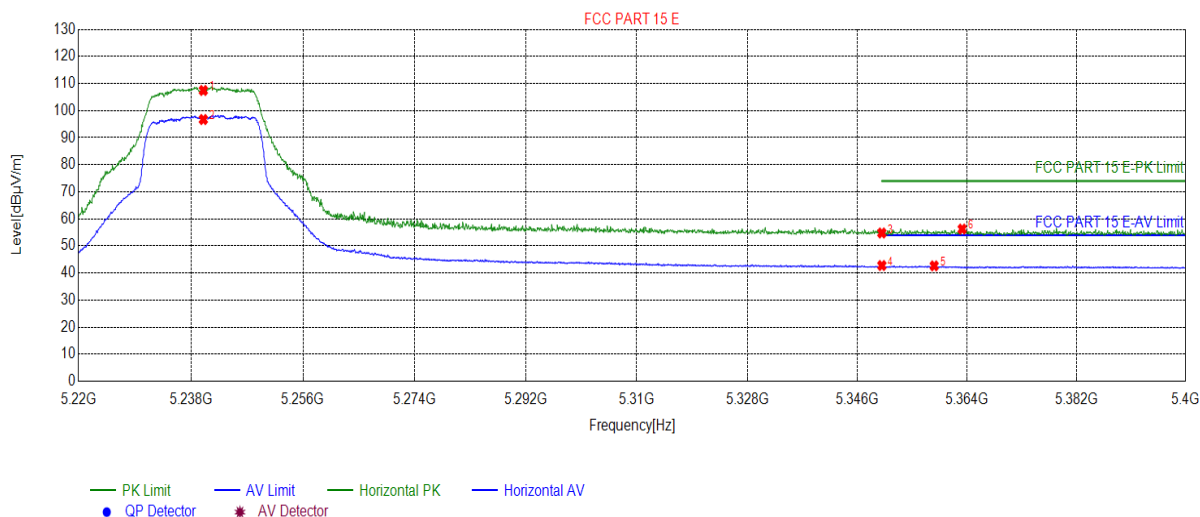


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4.10.1.51 802.11AC20_Channel 48 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	107.44	18.80	0.00	-107.44	156	35	Horizontal
2	5240.00	96.70	18.80	0.00	-96.70	179	20	Horizontal
3	5350.00	54.78	18.54	74.00	19.22	165	305	Horizontal
4	5350.00	42.77	18.54	54.00	11.23	189	28	Horizontal
5	5358.57	42.64	18.58	54.00	11.36	202	278	Horizontal
6	5363.17	56.24	18.49	74.00	17.76	189	114	Horizontal

Final Data List

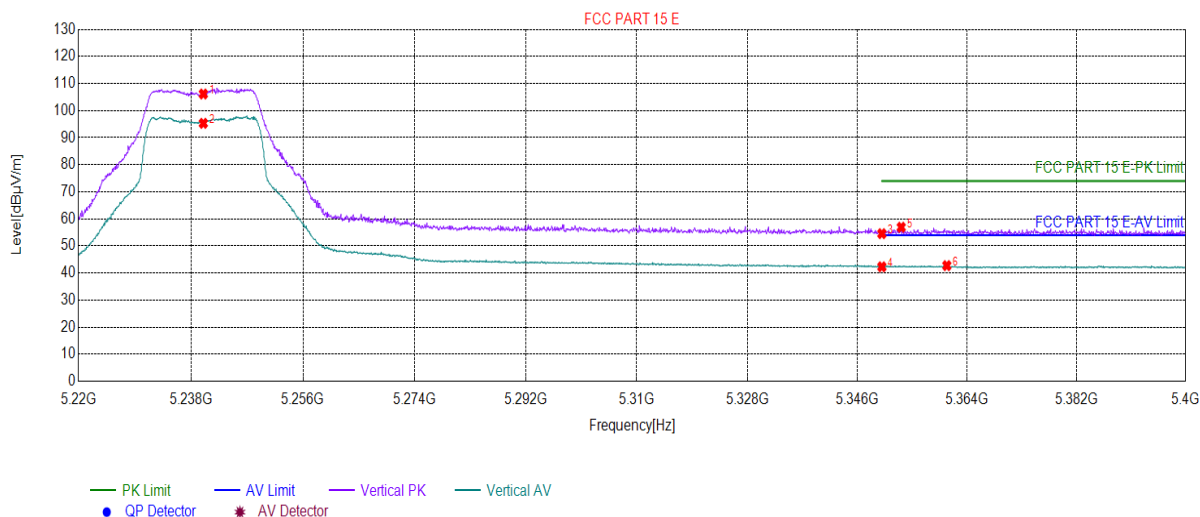


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4.10.1.52 802.11AC20_Channel 48 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5240.00	106.14	18.80	0.00	-106.14	189	312	Vertical
2	5240.00	95.30	18.80	0.00	-95.30	186	309	Vertical
3	5350.00	54.54	18.54	74.00	19.46	179	21	Vertical
4	5350.00	42.30	18.54	54.00	11.70	206	286	Vertical
5	5353.17	56.91	18.55	74.00	17.09	198	358	Vertical
6	5360.65	42.73	18.58	54.00	11.27	197	324	Vertical

Final Data List



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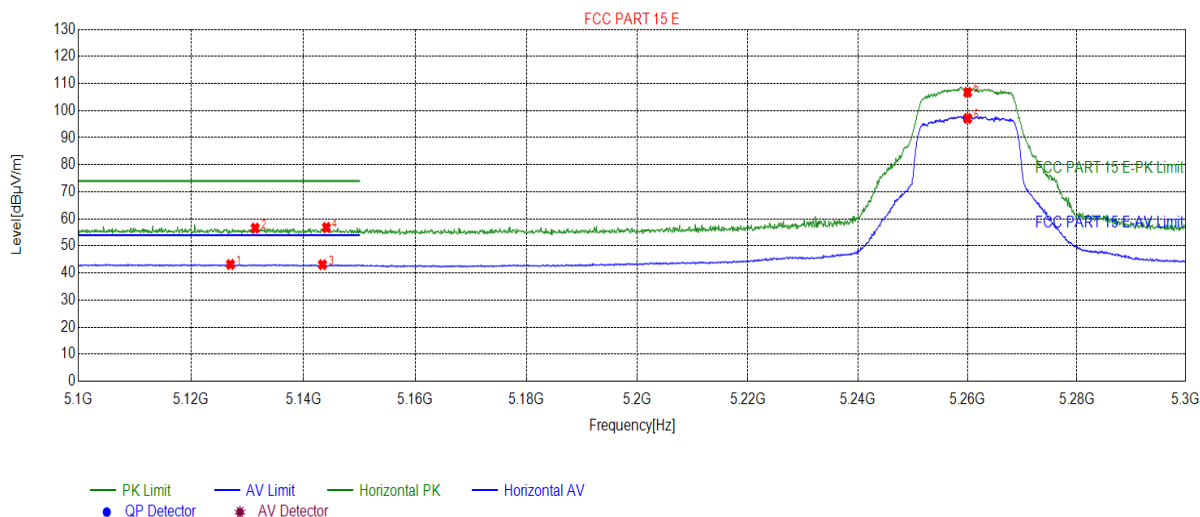
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Page: 199 of 855

4.10.1.53 802.11AC20_Channel 52 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5127.01	43.16	19.34	54.00	10.84	169	108	Horizontal
2	5131.41	56.58	19.36	74.00	17.42	189	154	Horizontal
3	5143.42	43.08	19.33	54.00	10.92	183	265	Horizontal
4	5144.12	56.84	19.32	74.00	17.16	196	288	Horizontal
5	5260.00	106.76	18.84	0.00	-106.76	156	17	Horizontal
6	5260.00	97.11	18.84	0.00	-97.11	179	22	Horizontal

Final Data List

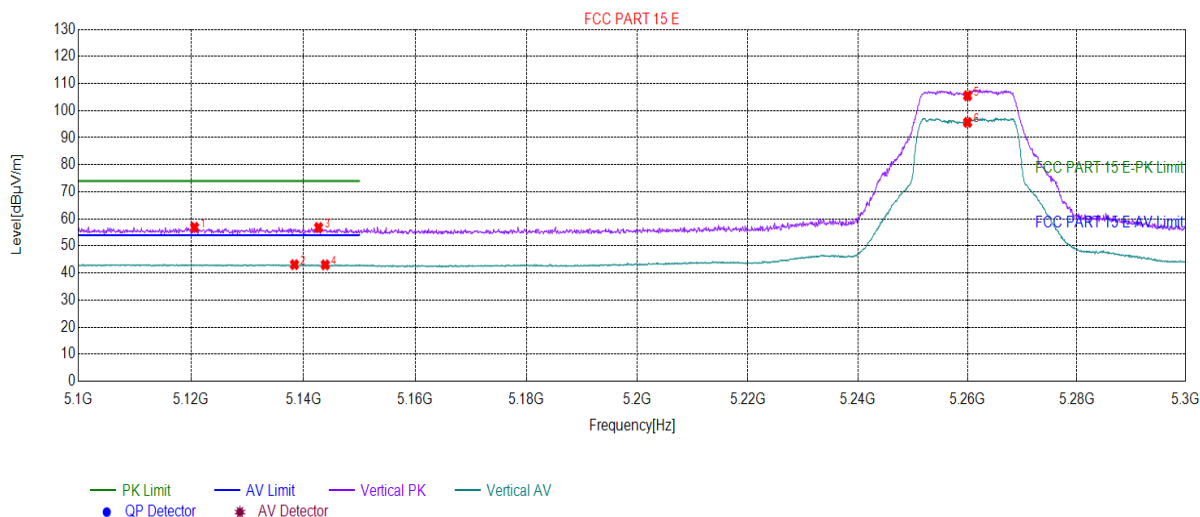


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4.10.1.54 802.11AC20_Channel 52 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.61	56.90	19.32	74.00	17.10	168	68	Vertical
2	5138.41	43.09	19.36	54.00	10.91	179	315	Vertical
3	5142.72	56.82	19.33	74.00	17.18	188	234	Vertical
4	5143.92	43.03	19.33	54.00	10.97	175	272	Vertical
5	5260.00	105.49	18.84	0.00	-105.49	213	310	Vertical
6	5260.00	95.64	18.84	0.00	-95.64	159	310	Vertical

Final Data List



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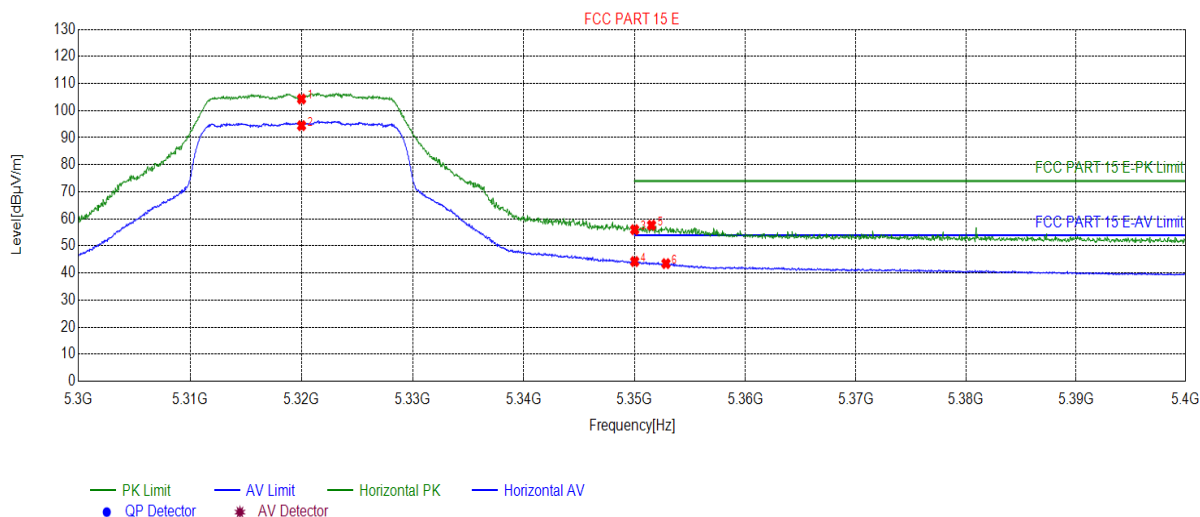
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4.10.1.55 802.11AC20_Channel 64 MIMO

Test Graph



Suspected List

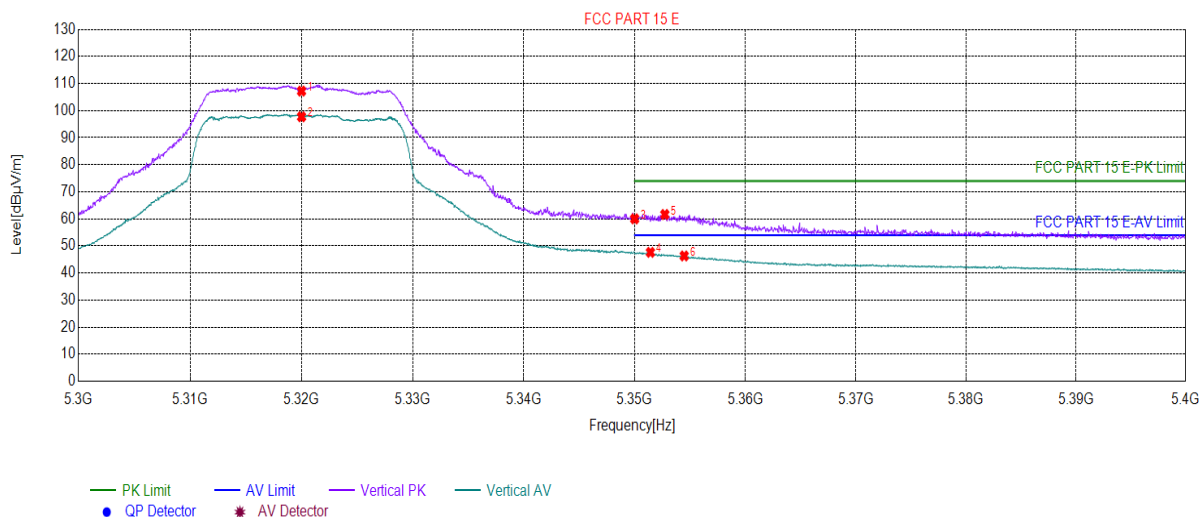
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	104.29	18.58	0.00	-104.29	115	30	Horizontal
2	5320.00	94.44	18.58	0.00	-94.44	202	16	Horizontal
3	5350.00	55.99	18.54	74.00	18.01	189	48	Horizontal
4	5350.00	44.24	18.54	54.00	9.76	246	44	Horizontal
5	5351.52	57.66	18.54	74.00	16.34	199	58	Horizontal
6	5352.82	43.48	18.55	54.00	10.52	206	67	Horizontal

Final Data List



4.10.1.56 802.11AC20_Channel 64 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.00	107.21	18.58	0.00	-107.21	302	357	Vertical
2	5320.00	97.72	18.58	0.00	-97.72	208	357	Vertical
3	5350.00	60.01	18.54	74.00	13.99	269	344	Vertical
4	5351.42	47.64	18.54	54.00	6.36	315	344	Vertical
5	5352.72	61.63	18.54	74.00	12.37	285	344	Vertical
6	5354.47	46.32	18.55	54.00	7.68	199	344	Vertical

Final Data List

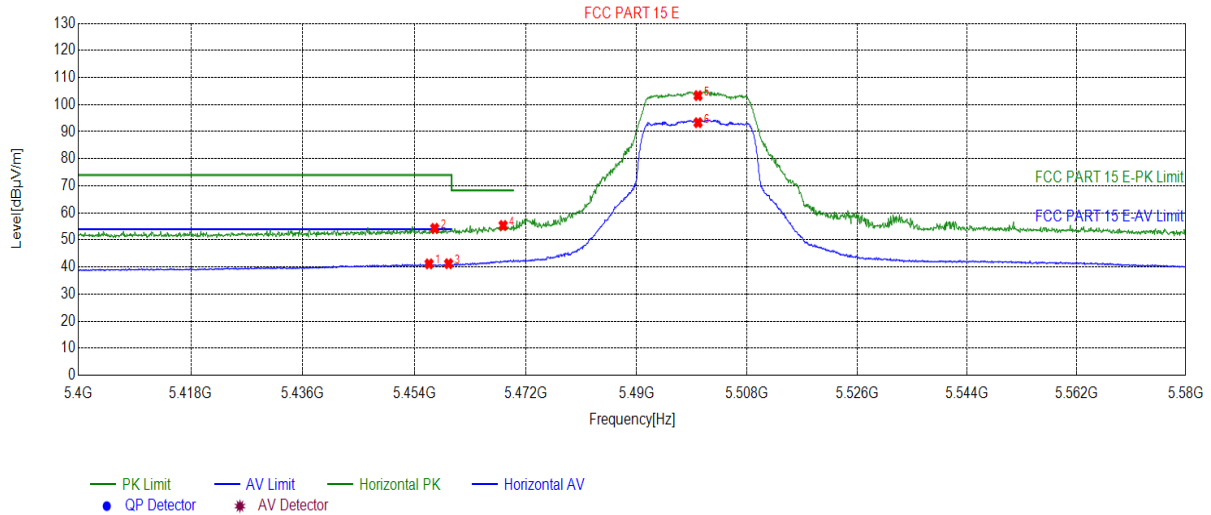


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4.10.1.57 802.11AC20_Channel 100 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5456.36	41.15	18.08	54.00	12.85	253	36	Horizontal
2	5457.26	54.28	18.09	74.00	19.72	202	88	Horizontal
3	5459.51	41.22	18.12	54.00	12.78	246	36	Horizontal
4	5468.34	55.35	18.20	68.30	12.95	159	39	Horizontal
5	5500.00	103.31	18.24	0.00	-103.31	136	70	Horizontal
6	5500.00	93.32	18.24	0.00	-93.32	149	66	Horizontal

Final Data List



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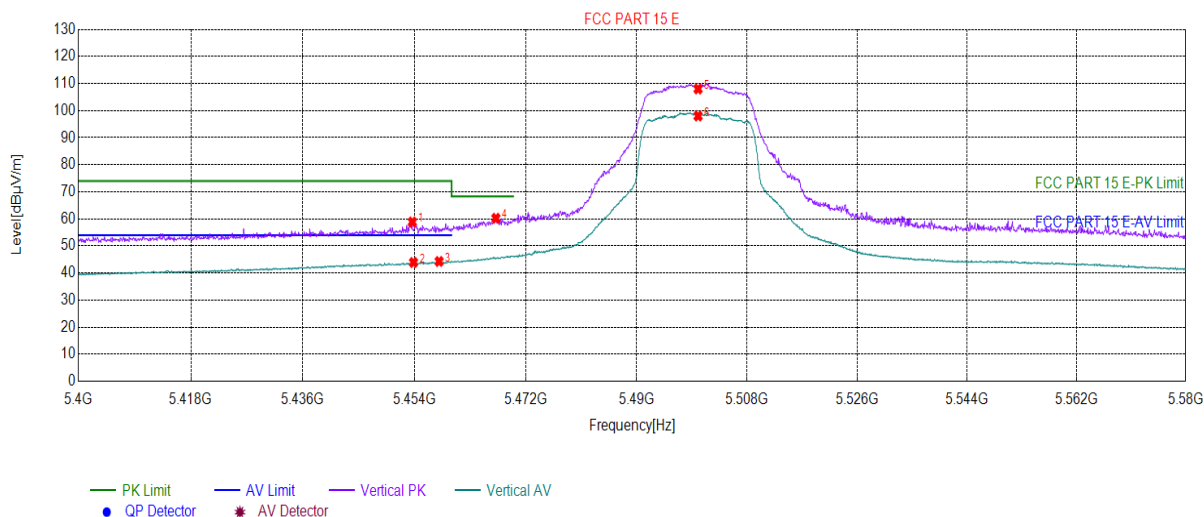
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4.10.1.58 802.11AC20_Channel 100 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5453.66	58.86	18.07	74.00	15.14	202	346	Vertical
2	5453.84	43.89	18.07	54.00	10.11	234	0	Vertical
3	5457.98	44.28	18.10	54.00	9.72	348	346	Vertical
4	5467.17	60.21	18.20	68.30	8.09	279	18	Vertical
5	5500.00	108.00	18.24	0.00	-108.00	195	346	Vertical
6	5500.00	98.00	18.24	0.00	-98.00	279	346	Vertical

Final Data List

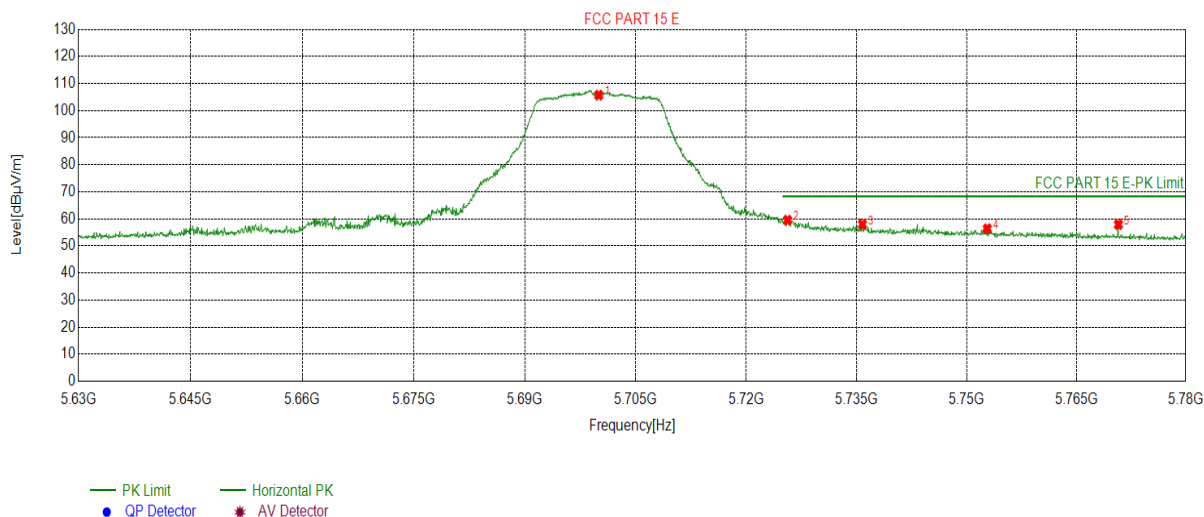


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4.10.1.59 802.11AC20_Channel 140 MIMO

Test Graph



Suspected List

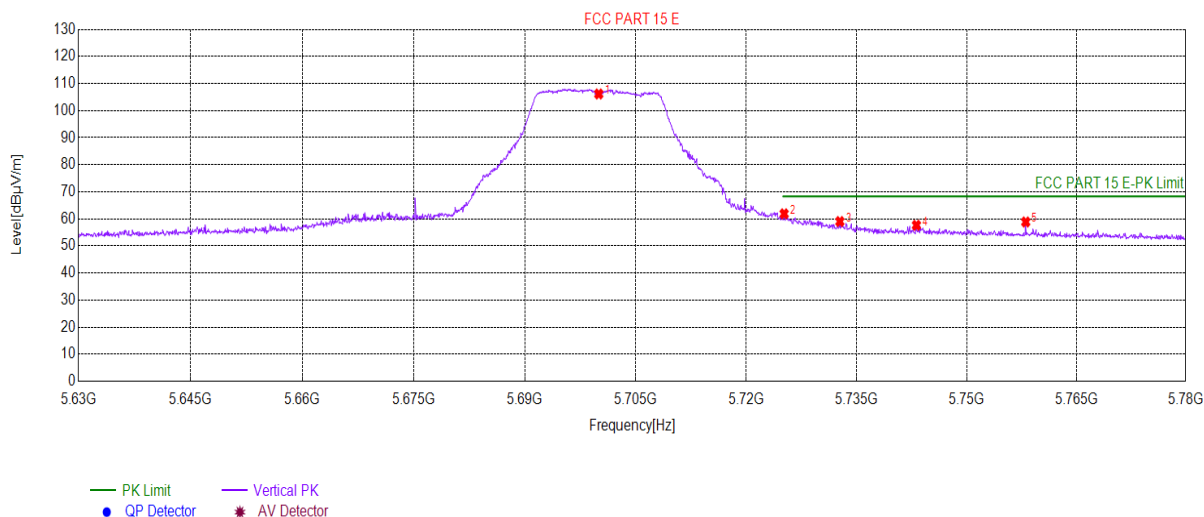
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	105.72	18.24	0.00	-105.72	263	22	Horizontal
2	5725.59	59.52	18.35	68.30	8.78	156	51	Horizontal
3	5735.80	57.97	18.39	68.30	10.33	345	19	Horizontal
4	5752.83	56.35	18.49	68.30	11.95	179	31	Horizontal
5	5770.77	57.91	18.41	68.30	10.39	196	3	Horizontal

Final Data List



4.10.1.60 802.11AC20_Channel 140 MIMO

Test Graph



Suspected List

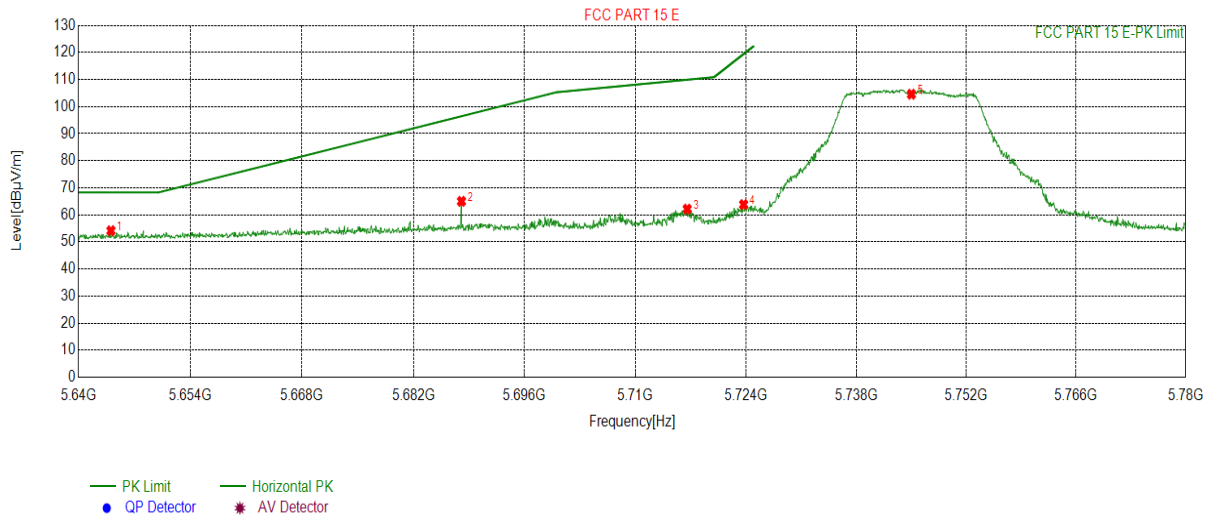
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.00	106.15	18.24	0.00	-106.15	156	21	Vertical
2	5725.14	61.88	18.33	68.30	6.42	139	297	Vertical
3	5732.72	59.03	18.45	68.30	9.27	185	350	Vertical
4	5743.15	57.64	18.35	68.30	10.66	203	12	Vertical
5	5758.08	58.86	18.36	68.30	9.44	199	307	Vertical

Final Data List



4.10.1.61 802.11AC20_Channel 149 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.06	54.14	18.02	68.30	14.16	169	21	Horizontal
2	5688.04	65.02	18.18	96.45	31.43	136	344	Horizontal
3	5716.54	62.14	18.46	109.93	47.79	246	7	Horizontal
4	5723.69	63.81	18.33	119.32	55.51	159	60	Horizontal
5	5745.00	104.57	18.37	0.00	-104.57	236	60	Horizontal

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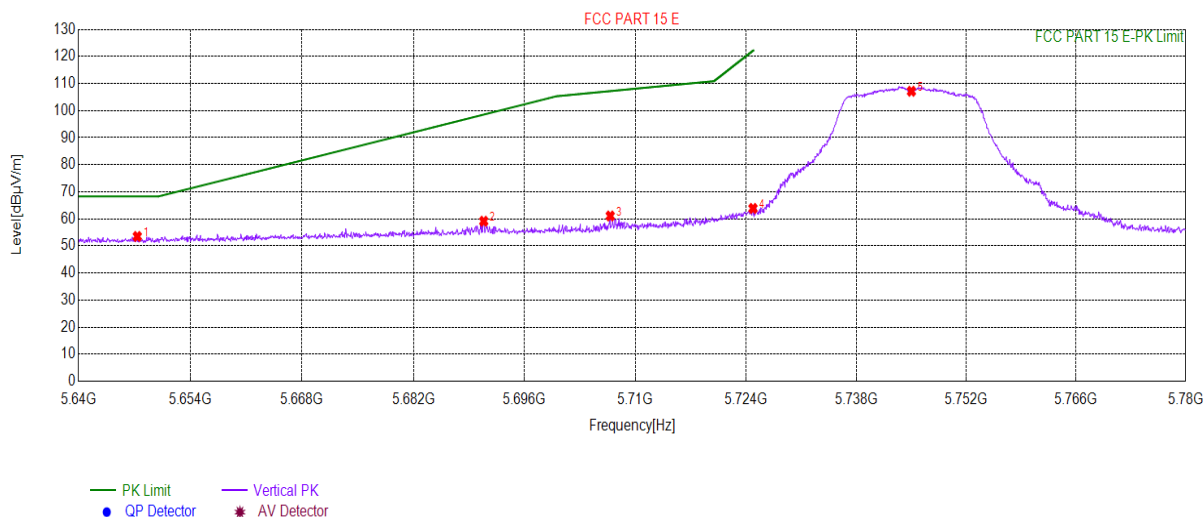
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4.10.1.62 802.11AC20_Channel 149 MIMO

Test Graph



Suspected List

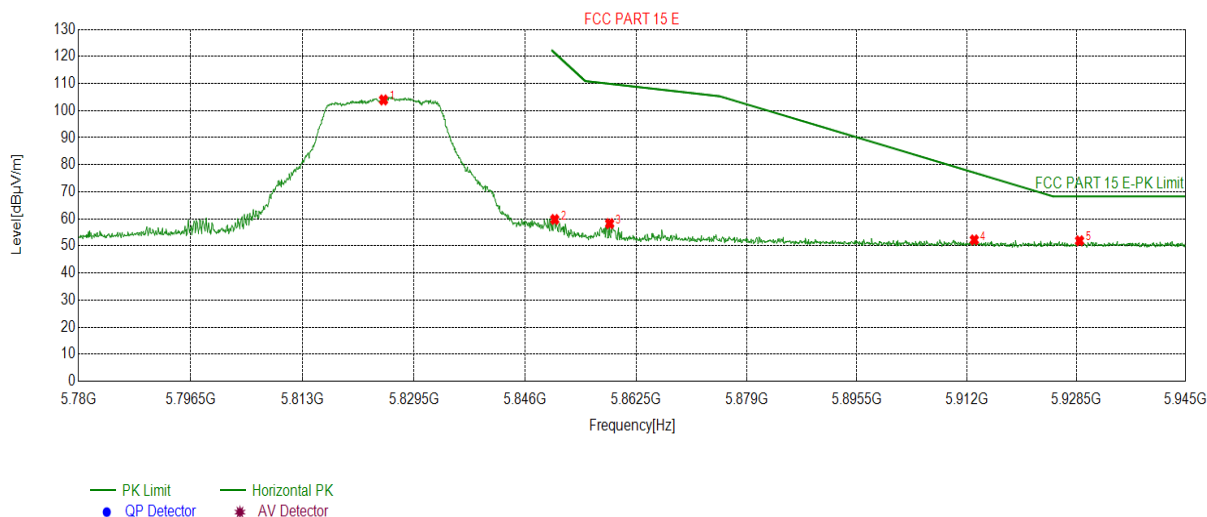
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5647.35	53.51	17.98	68.30	14.79	246	357	Vertical
2	5690.84	59.13	18.26	98.53	39.40	186	350	Vertical
3	5706.81	61.08	18.39	107.21	46.13	136	16	Vertical
4	5724.88	63.86	18.32	122.03	58.17	156	16	Vertical
5	5745.00	107.15	18.37	0.00	-107.15	179	360	Vertical

Final Data List



4.10.1.63 802.11AC20_Channel 165 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	103.94	18.80	0.00	-103.94	189	24	Horizontal
2	5850.40	59.78	18.77	121.37	61.59	139	10	Horizontal
3	5858.57	58.25	18.60	109.90	51.65	263	66	Horizontal
4	5913.13	52.23	19.20	77.08	24.85	246	344	Horizontal
5	5928.98	51.91	19.16	68.30	16.39	239	154	Horizontal

Final Data List

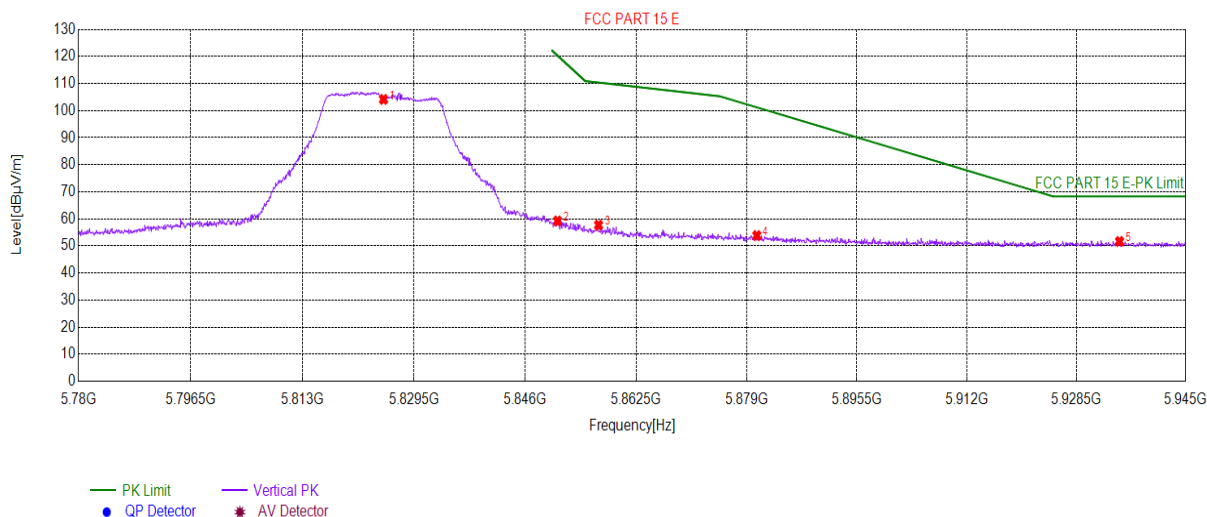


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4.10.1.64 802.11AC20_Channel 165 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5825.00	104.14	18.80	0.00	-104.14	256	22	Vertical
2	5850.82	59.24	18.76	120.43	61.19	189	19	Vertical
3	5856.92	57.71	18.63	110.36	52.65	153	19	Vertical
4	5880.53	53.84	18.65	101.20	47.36	179	19	Vertical
5	5935.01	51.67	19.05	68.30	16.63	169	234	Vertical

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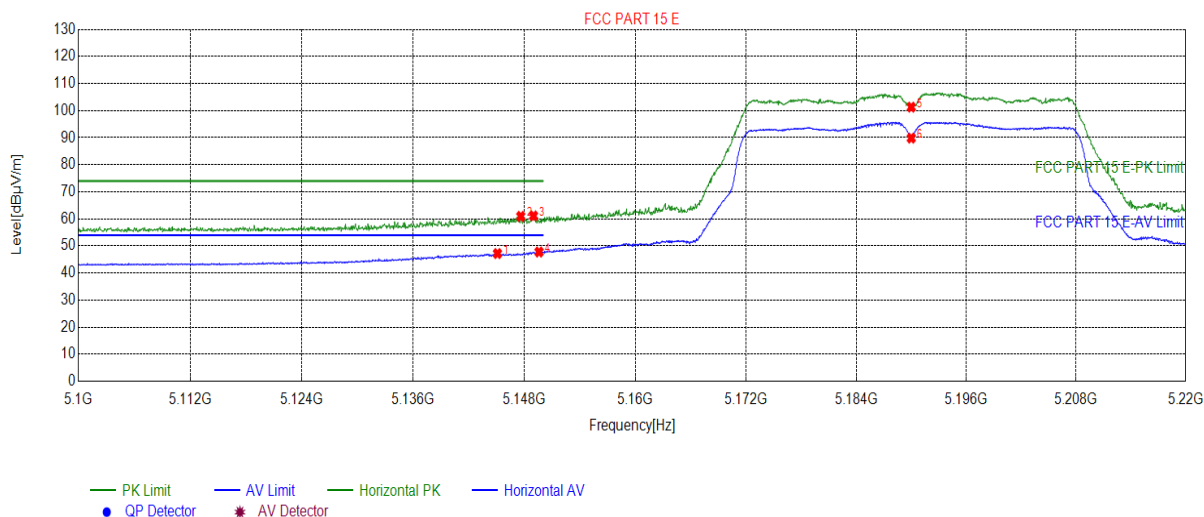
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4.10.1.65 802.11AC40_Channel 38 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5145.08	47.20	19.32	54.00	6.80	152	32	Horizontal
2	5147.60	60.93	19.33	74.00	13.07	146	23	Horizontal
3	5148.98	61.10	19.33	74.00	12.90	275	23	Horizontal
4	5149.58	47.77	19.33	54.00	6.23	221	30	Horizontal
5	5190.00	101.27	19.00	0.00	-101.27	165	36	Horizontal
6	5190.00	89.85	19.00	0.00	-89.85	202	36	Horizontal

Final Data List

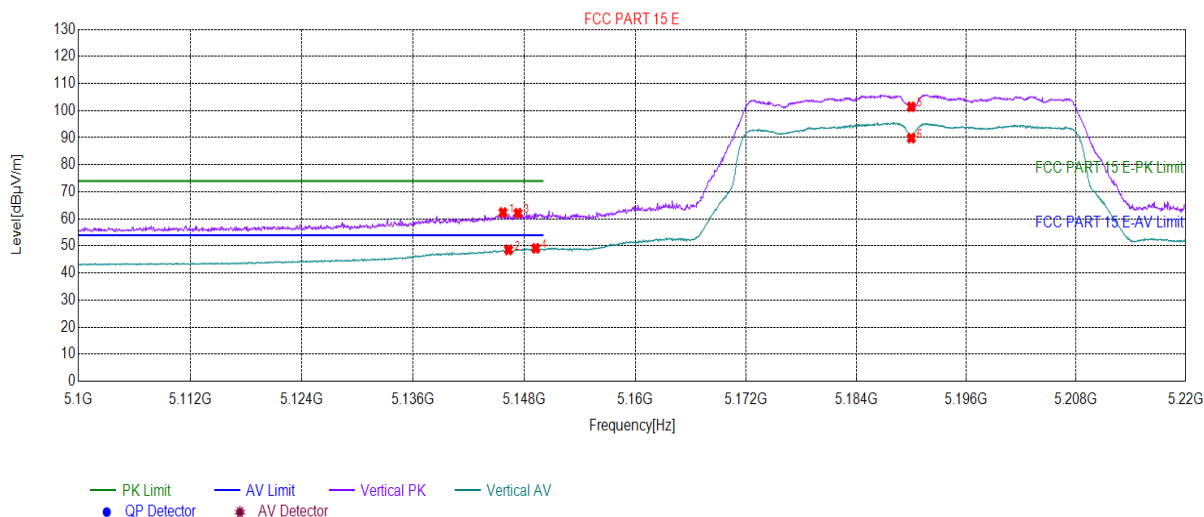


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4.10.1.66 802.11AC40_Channel 38 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5145.68	62.34	19.32	74.00	11.66	230	342	Vertical
2	5146.28	48.56	19.32	54.00	5.44	304	346	Vertical
3	5147.30	62.11	19.33	74.00	11.89	274	346	Vertical
4	5149.22	49.12	19.33	54.00	4.88	199	4	Vertical
5	5190.00	101.40	19.00	0.00	-101.40	242	342	Vertical
6	5190.00	89.84	19.00	0.00	-89.84	301	346	Vertical

Final Data List



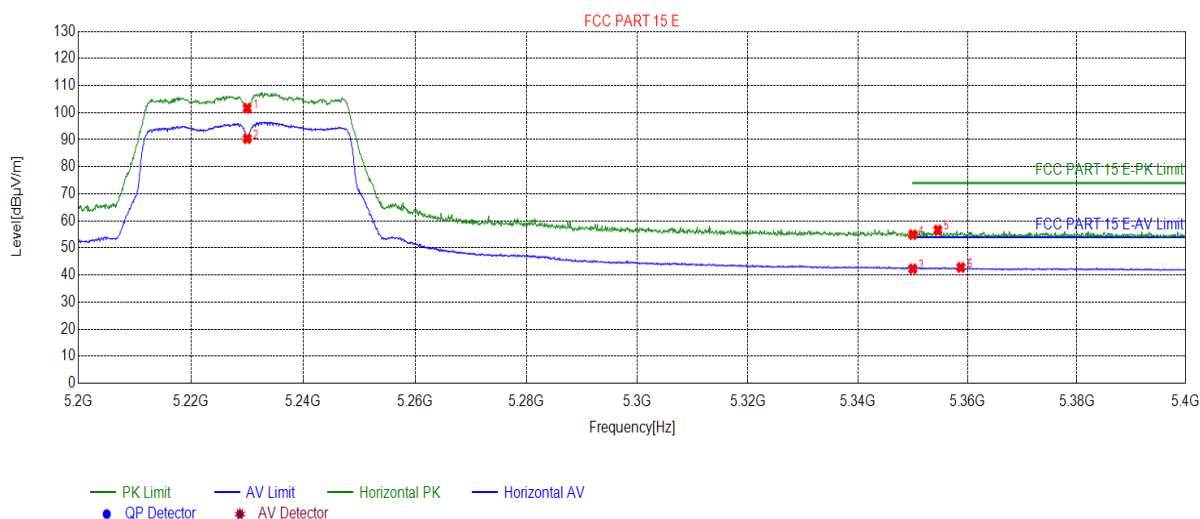
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4.10.1.67 802.11AC40_Channel 46 MIMO

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	101.64	18.94	0.00	-101.64	189	16	Horizontal
2	5230.00	90.39	18.94	0.00	-90.39	156	21	Horizontal
3	5350.00	42.31	18.54	54.00	11.69	159	64	Horizontal
4	5350.00	54.93	18.54	74.00	19.07	199	326	Horizontal
5	5354.57	56.64	18.55	74.00	17.36	159	344	Horizontal
6	5358.77	42.79	18.59	54.00	11.21	203	35	Horizontal

Final Data List

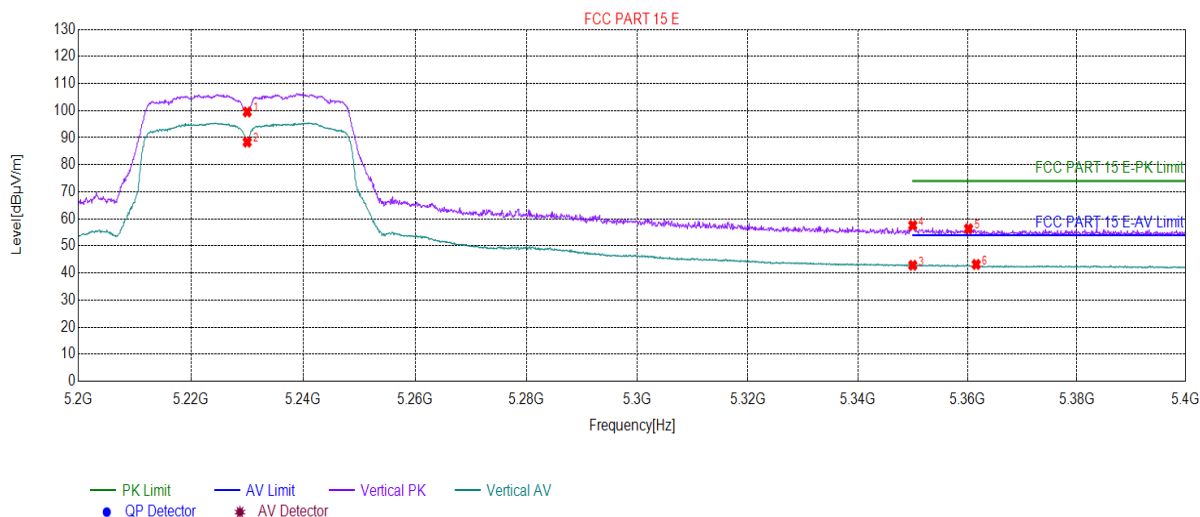


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4.10.1.68 802.11AC40_Channel 46 MIMO

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	99.51	18.94	0.00	-99.51	189	315	Vertical
2	5230.00	88.36	18.94	0.00	-88.36	163	310	Vertical
3	5350.00	42.85	18.54	54.00	11.15	208	16	Vertical
4	5350.00	57.59	18.54	74.00	16.41	356	338	Vertical
5	5360.18	56.36	18.59	74.00	17.64	123	16	Vertical
6	5361.58	43.17	18.54	54.00	10.83	248	357	Vertical

Final Data List

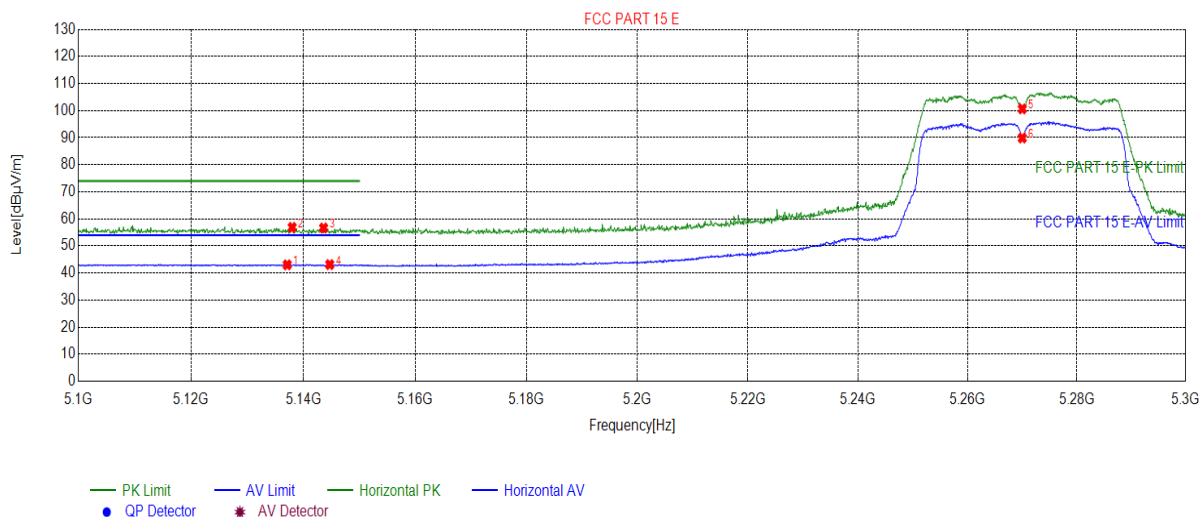


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4.10.1.69 802.11AC40_Channel 54 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5137.11	43.04	19.38	54.00	10.96	179	31	Horizontal
2	5138.01	56.87	19.37	74.00	17.13	139	65	Horizontal
3	5143.62	56.64	19.33	74.00	17.36	183	240	Horizontal
4	5144.72	43.12	19.32	54.00	10.88	156	344	Horizontal
5	5270.00	100.64	18.63	0.00	-100.64	215	31	Horizontal
6	5270.00	89.88	18.63	0.00	-89.88	165	18	Horizontal

Final Data List

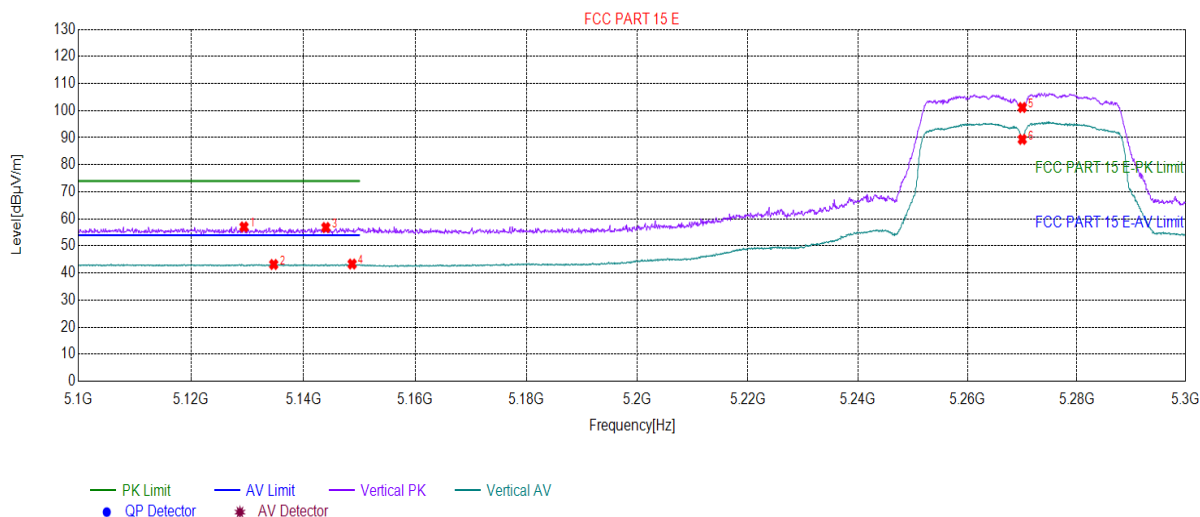


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4.10.1.70 802.11AC40_Channel 54 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.41	57.03	19.34	74.00	16.97	245	44	Vertical
2	5134.71	43.16	19.41	54.00	10.84	231	316	Vertical
3	5144.02	56.81	19.33	74.00	17.19	196	30	Vertical
4	5148.72	43.32	19.33	54.00	10.68	186	73	Vertical
5	5270.00	101.15	18.63	0.00	-101.15	203	311	Vertical
6	5270.00	89.36	18.63	0.00	-89.36	195	311	Vertical

Final Data List

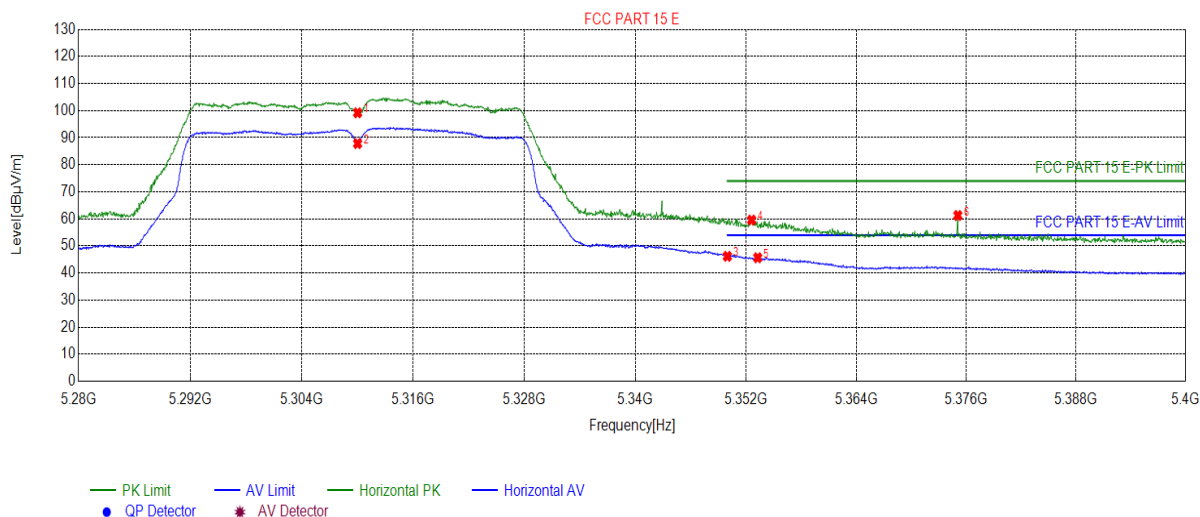


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4.10.1.71 802.11AC40_Channel 62 MIMO

Test Graph



Suspected List

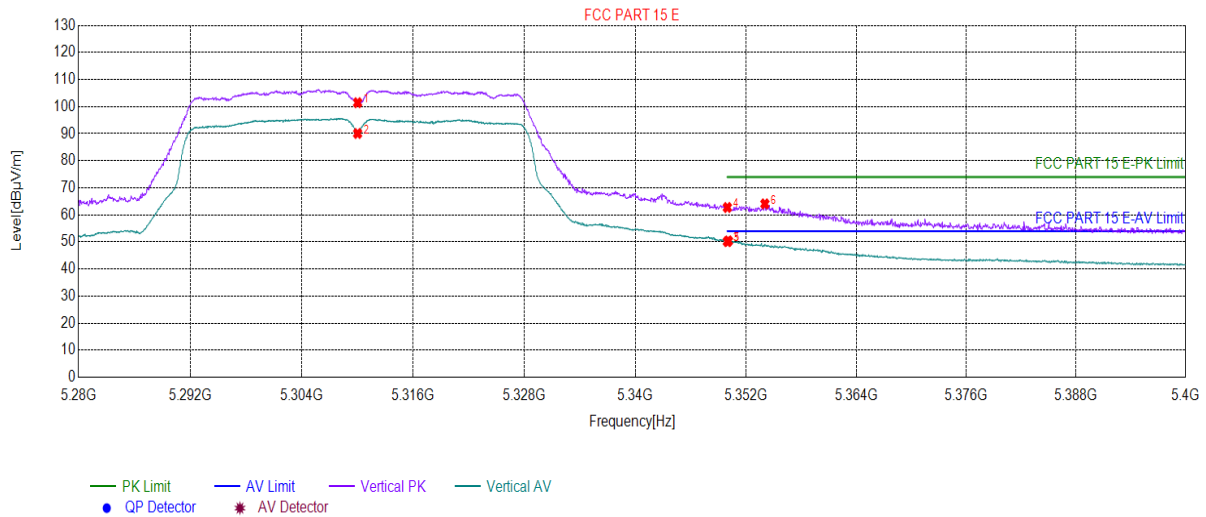
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.00	99.18	18.57	0.00	-99.18	204	14	Horizontal
2	5310.00	87.82	18.57	0.00	-87.82	169	14	Horizontal
3	5350.00	46.17	18.54	54.00	7.83	203	25	Horizontal
4	5352.63	59.56	18.54	74.00	14.44	199	44	Horizontal
5	5353.29	45.65	18.55	54.00	8.35	187	40	Horizontal
6	5375.08	61.25	18.54	74.00	12.75	196	48	Horizontal

Final Data List



4.10.1.72 802.11AC40_Channel 62 MIMO

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	101.44	18.57	0.00	-101.44	186	346	Vertical
2	5310.00	90.08	18.57	0.00	-90.08	189	346	Vertical
3	5350.00	50.16	18.54	54.00	3.84	176	335	Vertical
4	5350.00	62.74	18.54	74.00	11.26	144	316	Vertical
5	5350.11	50.36	18.54	54.00	3.64	204	354	Vertical
6	5354.07	64.07	18.55	74.00	9.93	196	350	Vertical

Final Data List



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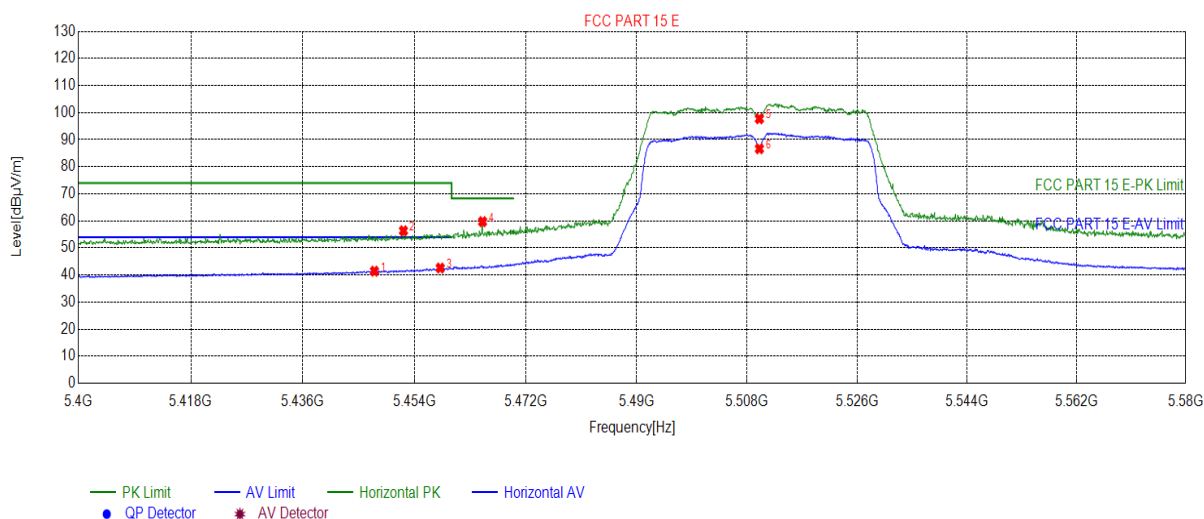
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4.10.1.73 802.11AC40_Channel 102 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5447.54	41.42	18.13	54.00	12.58	203	62	Horizontal
2	5452.22	56.35	18.08	74.00	17.65	221	36	Horizontal
3	5458.16	42.58	18.10	54.00	11.42	345	25	Horizontal
4	5465.01	59.72	18.21	68.30	8.58	232	238	Horizontal
5	5510.00	97.72	18.08	0.00	-97.72	278	59	Horizontal
6	5510.00	86.64	18.08	0.00	-86.64	196	66	Horizontal

Final Data List

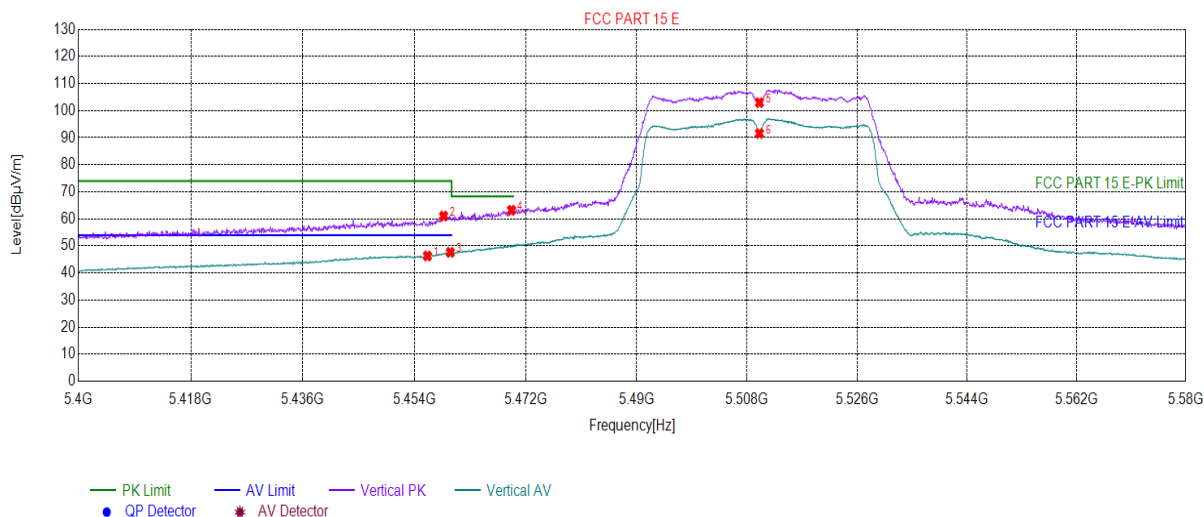


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4.10.1.74 802.11AC40_Channel 102 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5456.09	46.29	18.07	54.00	7.71	203	0	Vertical
2	5458.70	61.04	18.11	74.00	12.96	241	10	Vertical
3	5459.78	47.63	18.13	54.00	6.37	263	346	Vertical
4	5469.69	63.19	18.20	68.30	5.11	174	339	Vertical
5	5510.00	102.94	18.08	0.00	-102.94	156	346	Vertical
6	5510.00	91.55	18.08	0.00	-91.55	169	346	Vertical

Final Data List

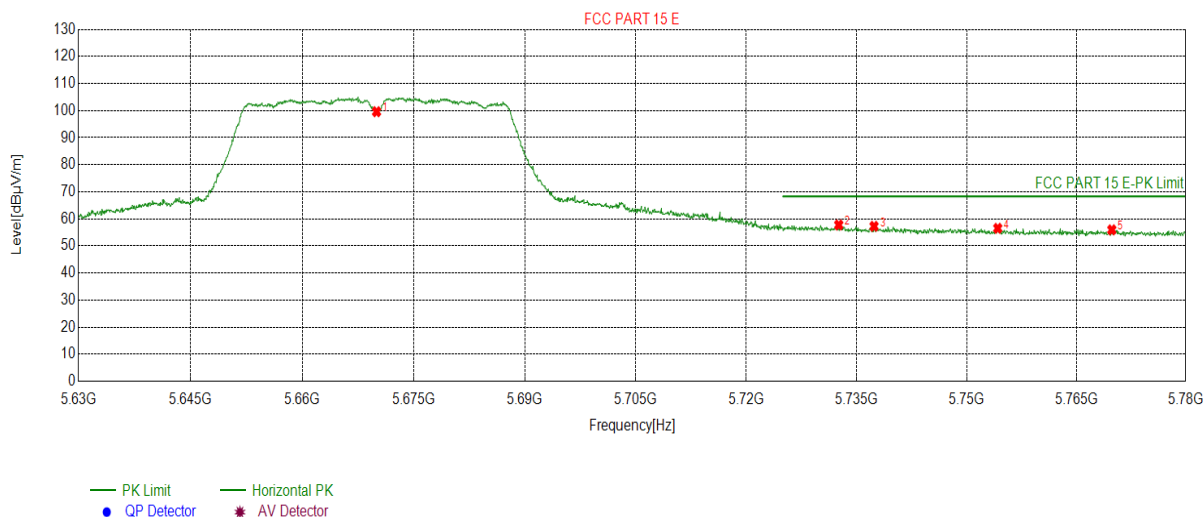


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4.10.1.75 802.11AC40_Channel 134 MIMO

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	99.59	18.24	0.00	-99.59	156	47	Horizontal
2	5732.57	57.76	18.45	68.30	10.54	179	309	Horizontal
3	5737.37	57.25	18.36	68.30	11.05	186	315	Horizontal
4	5754.26	56.52	18.42	68.30	11.78	189	14	Horizontal
5	5769.86	55.95	18.42	68.30	12.35	198	39	Horizontal

Final Data List

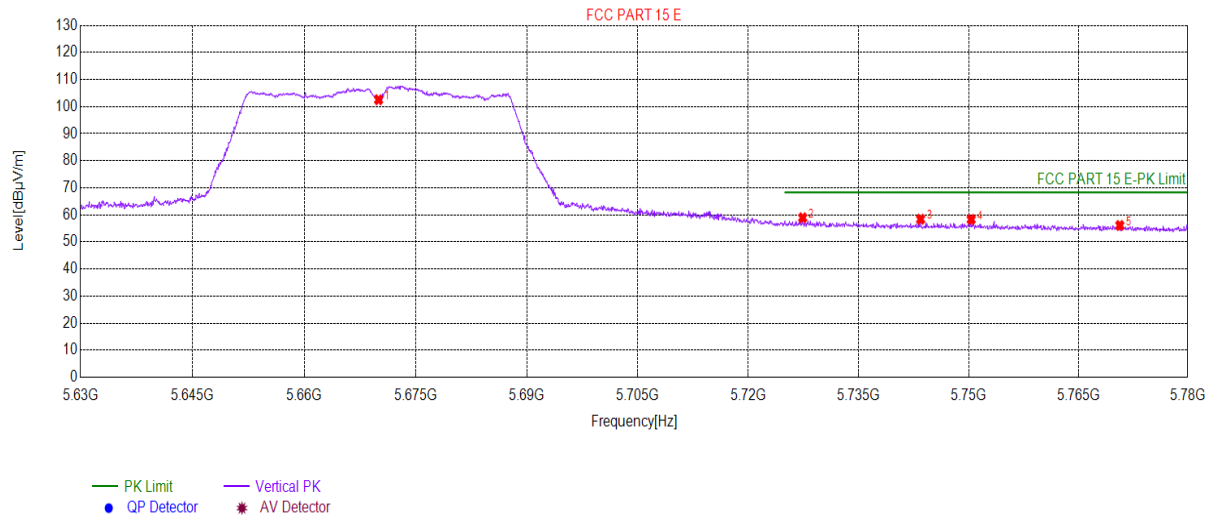


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4.10.1.76 802.11AC40_Channel 134 MIMO

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	102.53	18.24	0.00	-102.53	202	346	Vertical
2	5727.39	58.94	18.41	68.30	9.36	211	2	Vertical
3	5743.45	58.41	18.35	68.30	9.89	198	0	Vertical
4	5750.36	58.31	18.60	68.30	9.99	187	346	Vertical
5	5770.69	56.09	18.41	68.30	12.21	305	354	Vertical

Final Data List

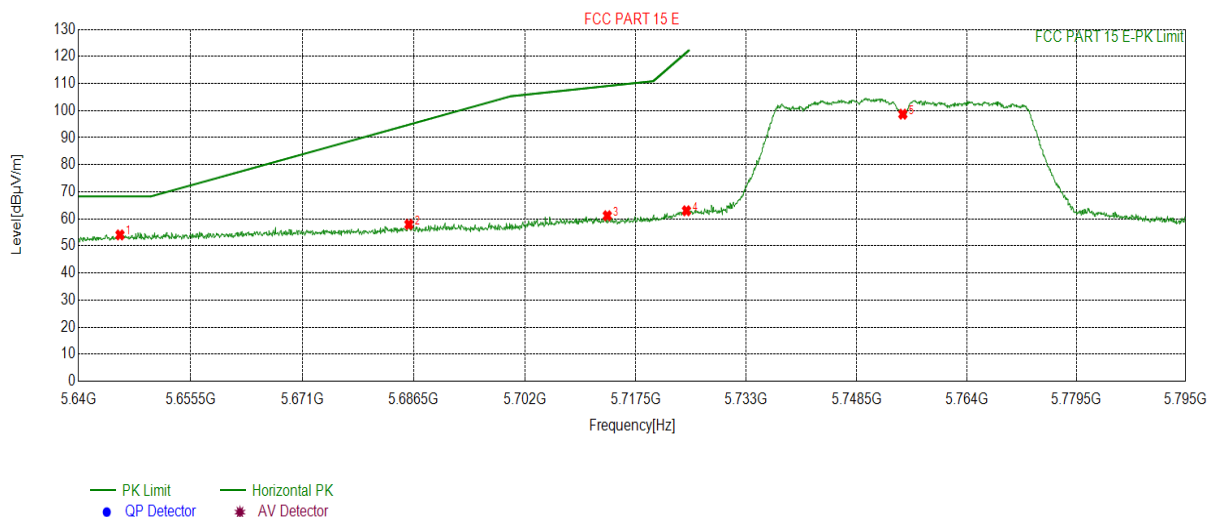


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4.10.1.77 802.11AC40_Channel 151 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.73	54.07	17.99	68.30	14.23	189	320	Horizontal
2	5685.82	57.94	18.11	94.81	36.87	169	28	Horizontal
3	5713.50	61.17	18.51	109.08	47.91	187	35	Horizontal
4	5724.59	63.00	18.33	121.38	58.38	206	25	Horizontal
5	5755.00	98.68	18.39	0.00	-98.68	196	60	Horizontal

Final Data List



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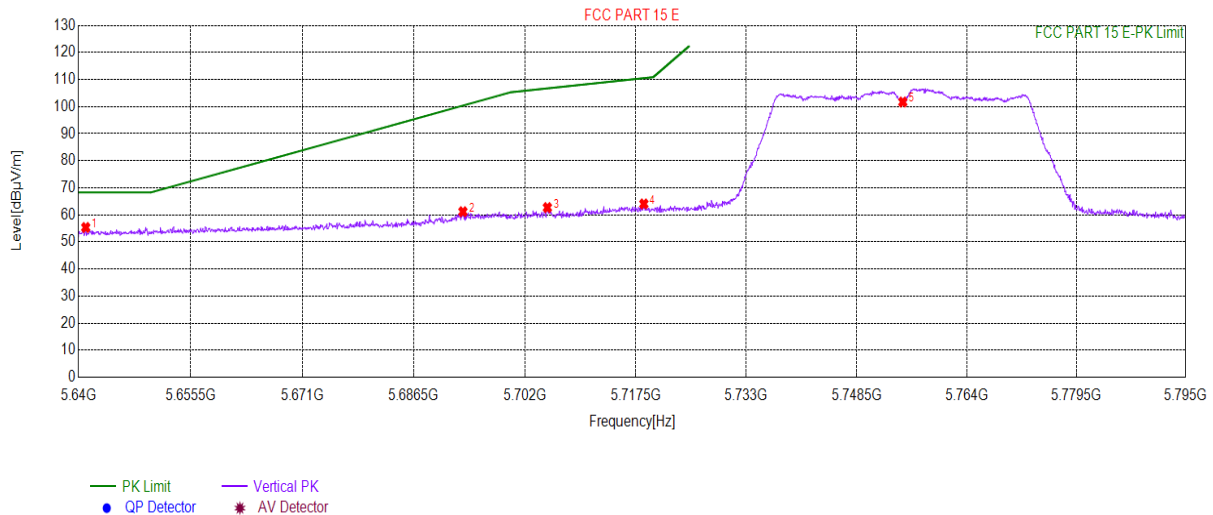
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4.10.1.78 802.11AC40_Channel 151 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5641.00	55.34	18.08	68.30	12.96	168	16	Vertical
2	5693.34	61.17	18.28	100.38	39.21	179	358	Vertical
3	5705.13	62.69	18.32	106.74	44.05	169	16	Vertical
4	5718.62	64.05	18.38	110.51	46.46	203	16	Vertical
5	5755.00	101.68	18.39	0.00	-101.68	241	16	Vertical

Final Data List



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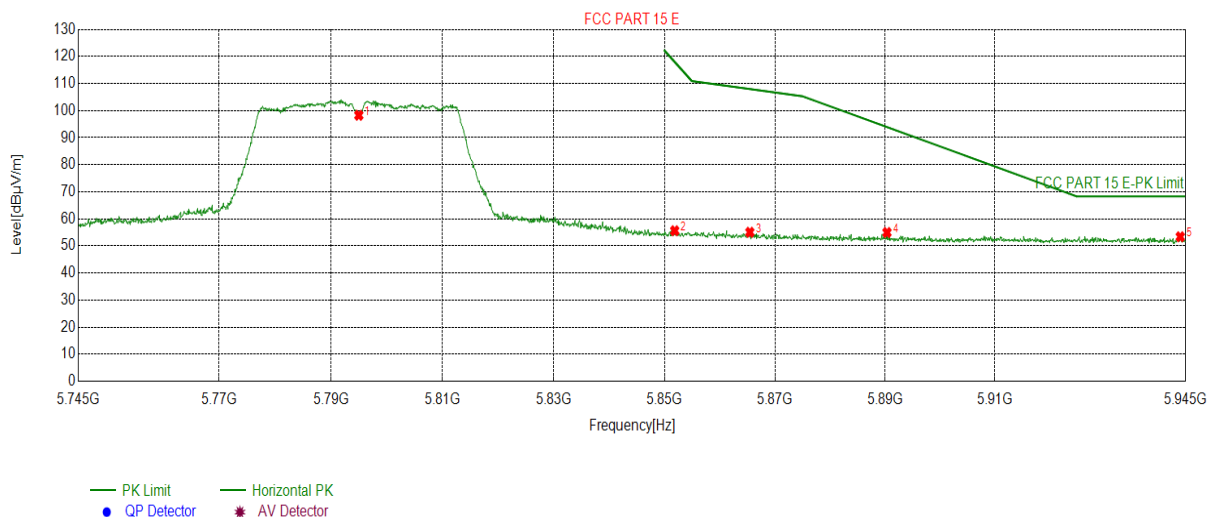
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4.10.1.79 802.11AC40_Channel 159 MIMO

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	98.26	18.58	0.00	-98.26	151	57	Horizontal
2	5851.85	55.62	18.73	118.07	62.45	165	36	Horizontal
3	5865.46	55.05	18.83	107.97	52.92	176	29	Horizontal
4	5890.37	54.96	18.97	93.92	38.96	196	234	Horizontal
5	5943.99	53.39	18.89	68.30	14.91	158	213	Horizontal

Final Data List



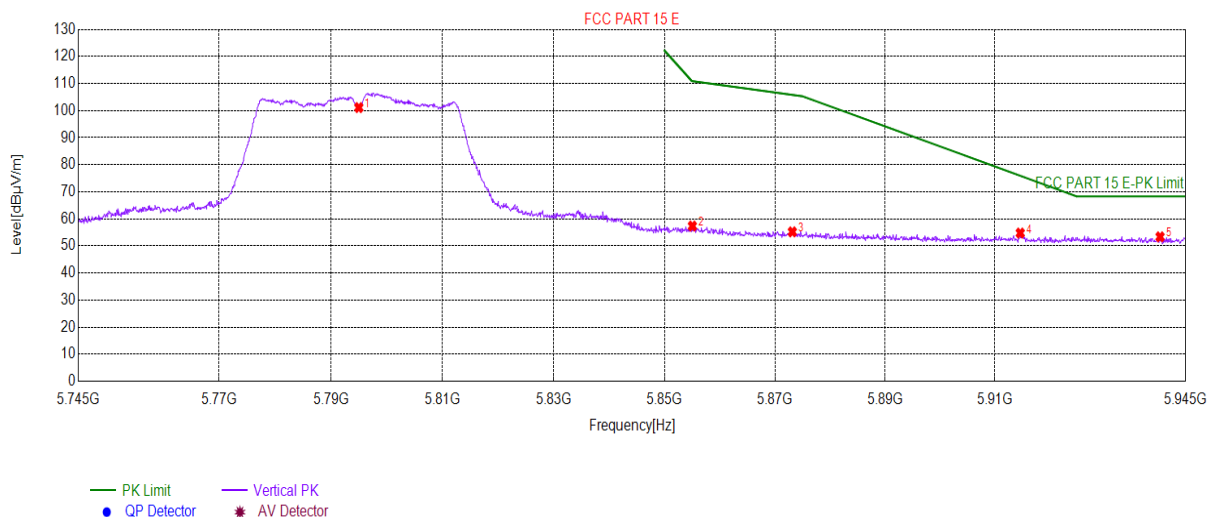
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4.10.1.80 802.11AC40_Channel 159 MIMO

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	101.10	18.58	0.00	-101.10	165	16	Vertical
2	5855.05	57.35	18.66	110.88	53.53	179	16	Vertical
3	5873.16	55.21	18.79	105.81	50.60	203	16	Vertical
4	5914.68	54.77	19.15	75.93	21.16	248	33	Vertical
5	5940.29	53.37	18.79	68.30	14.93	189	269	Vertical

Final Data List



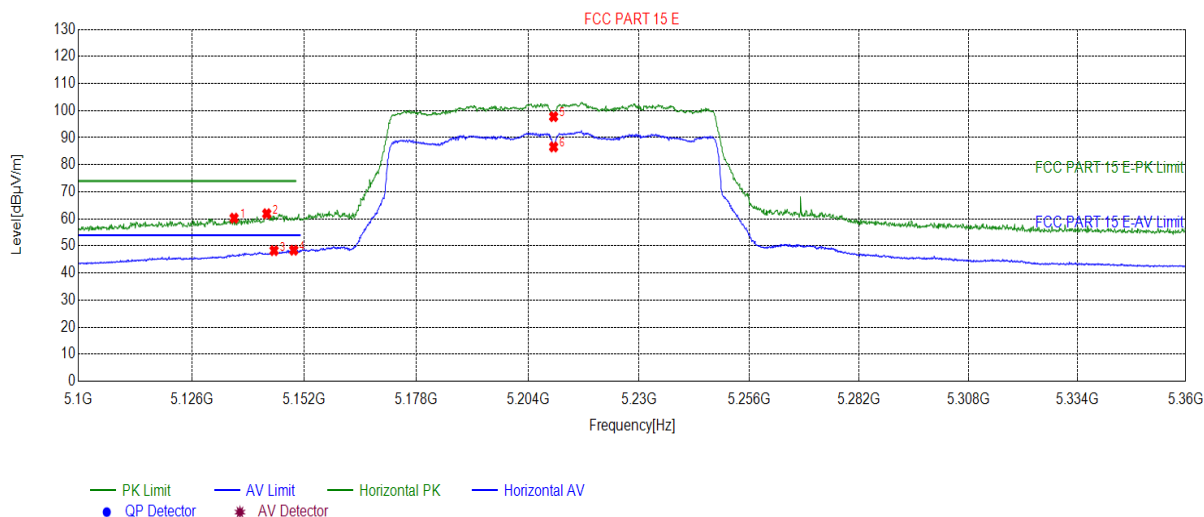
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4.10.1.81 802.11AC80_Channel 42 MIMO

Test Graph



Suspected List

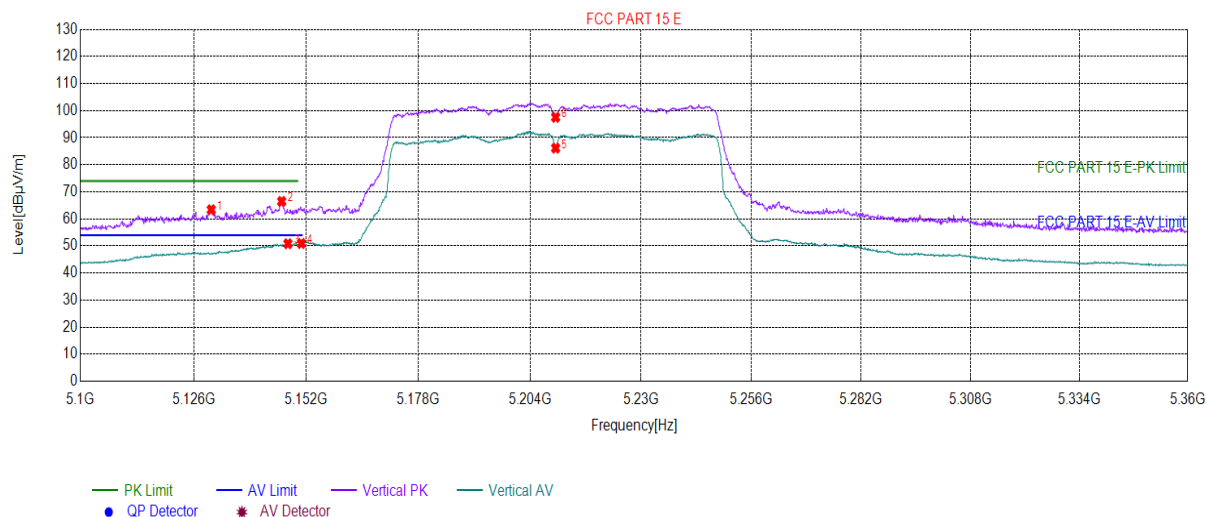
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5135.76	60.27	19.40	74.00	13.73	193	15	Horizontal
2	5143.31	61.90	19.33	74.00	12.10	176	14	Horizontal
3	5145.00	48.28	19.32	54.00	5.72	163	28	Horizontal
4	5149.55	48.44	19.33	54.00	5.56	188	19	Horizontal
5	5210.00	97.77	18.93	0.00	-97.77	211	36	Horizontal
6	5210.00	86.58	18.93	0.00	-86.58	199	39	Horizontal

Final Data List



4.10.1.82 802.11AC80_Channel 42 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.04	63.38	19.34	74.00	10.62	189	14	Vertical
2	5146.30	66.43	19.32	74.00	7.57	163	4	Vertical
3	5147.73	50.82	19.33	54.00	3.18	189	346	Vertical
4	5150.85	50.91	19.28	54.00	3.09	179	346	Vertical
5	5210.00	86.13	18.93	0.00	-86.13	163	346	Vertical
6	5210.00	97.53	18.93	0.00	-97.53	189	2	Vertical

Final Data List

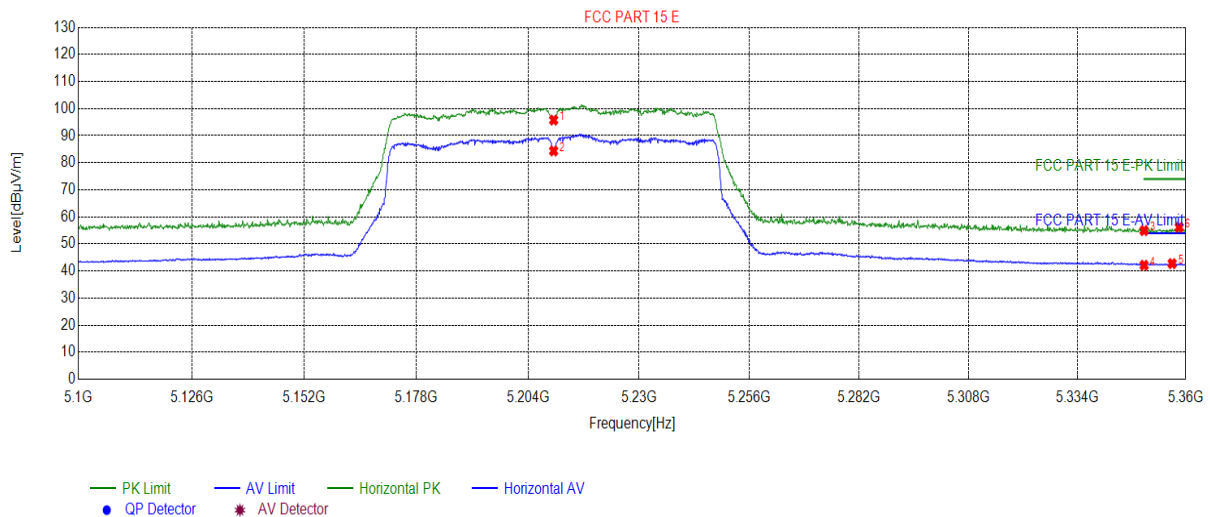


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4.10.1.83 802.11AC80_Channel 42 MIMO

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	95.77	18.93	0.00	-95.77	155	35	Horizontal
2	5210.00	84.35	18.93	0.00	-84.35	163	22	Horizontal
3	5350.00	54.94	18.54	74.00	19.06	178	325	Horizontal
4	5350.00	42.14	18.54	54.00	11.86	193	7	Horizontal
5	5356.74	42.74	18.57	54.00	11.26	176	12	Horizontal
6	5358.43	56.16	18.58	74.00	17.84	138	276	Horizontal

Final Data List

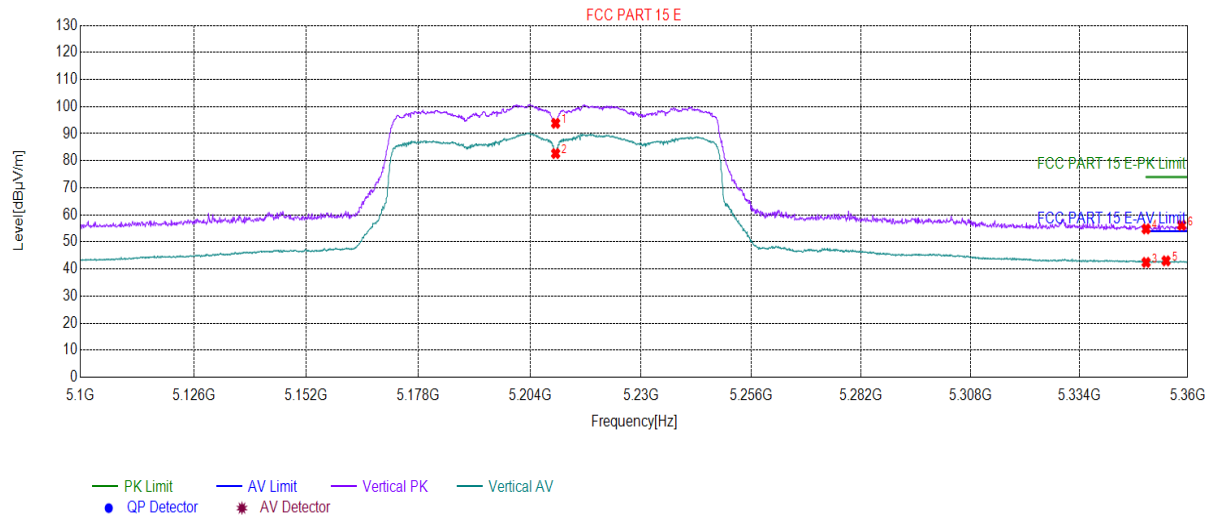


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4.10.1.84 802.11AC80_Channel 42 MIMO

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	93.84	18.93	0.00	-93.84	176	312	Vertical
2	5210.00	82.66	18.93	0.00	-82.66	196	312	Vertical
3	5350.00	42.44	18.54	54.00	11.56	153	336	Vertical
4	5350.00	54.82	18.54	74.00	19.18	179	345	Vertical
5	5354.79	43.02	18.55	54.00	10.98	203	331	Vertical
6	5358.56	56.18	18.58	74.00	17.82	186	350	Vertical

Final Data List



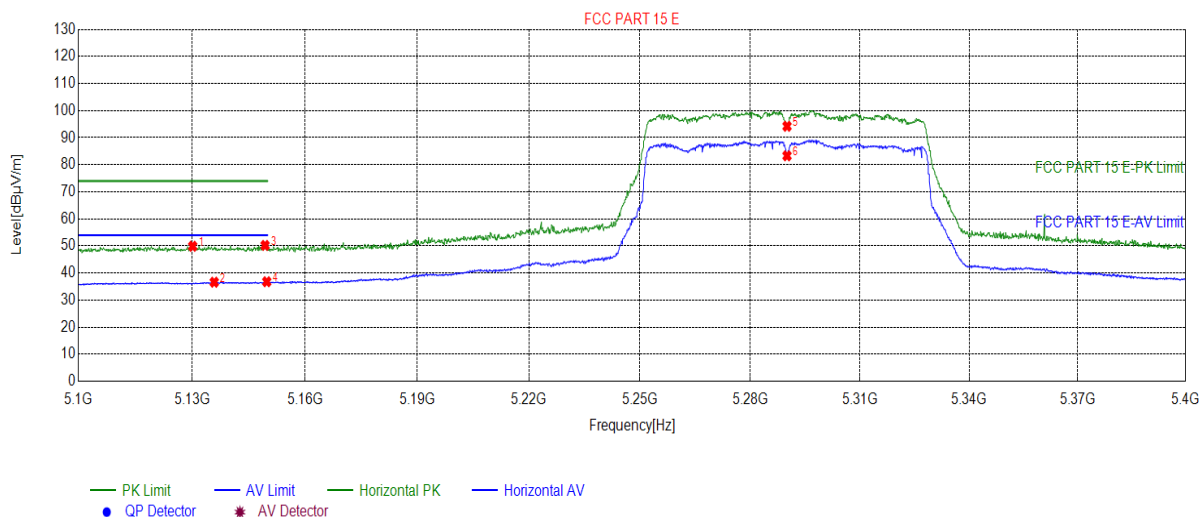
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4.10.1.85 802.11AC80_Channel 58 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5130.16	49.89	19.35	74.00	24.11	153	26	Horizontal
2	5135.86	36.60	19.40	54.00	17.40	186	26	Horizontal
3	5149.37	50.21	19.33	74.00	23.79	169	26	Horizontal
4	5149.82	36.78	19.33	54.00	17.22	179	12	Horizontal
5	5290.00	94.21	18.48	0.00	-94.21	189	21	Horizontal
6	5290.00	83.29	18.48	0.00	-83.29	202	21	Horizontal

Final Data List



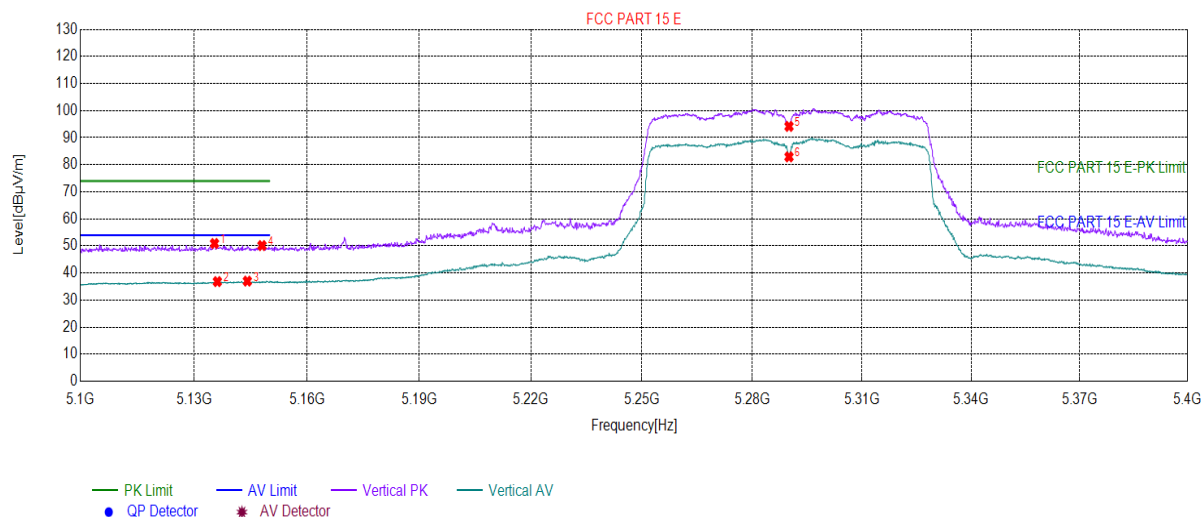
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4.10.1.86 802.11AC80_Channel 58 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5135.41	50.91	19.41	74.00	23.09	189	329	Vertical
2	5136.16	36.83	19.40	54.00	17.17	263	360	Vertical
3	5144.12	37.01	19.32	54.00	16.99	199	357	Vertical
4	5148.02	50.14	19.33	74.00	23.86	203	338	Vertical
5	5290.00	94.16	18.48	0.00	-94.16	198	305	Vertical
6	5290.00	82.91	18.48	0.00	-82.91	169	305	Vertical

Final Data List



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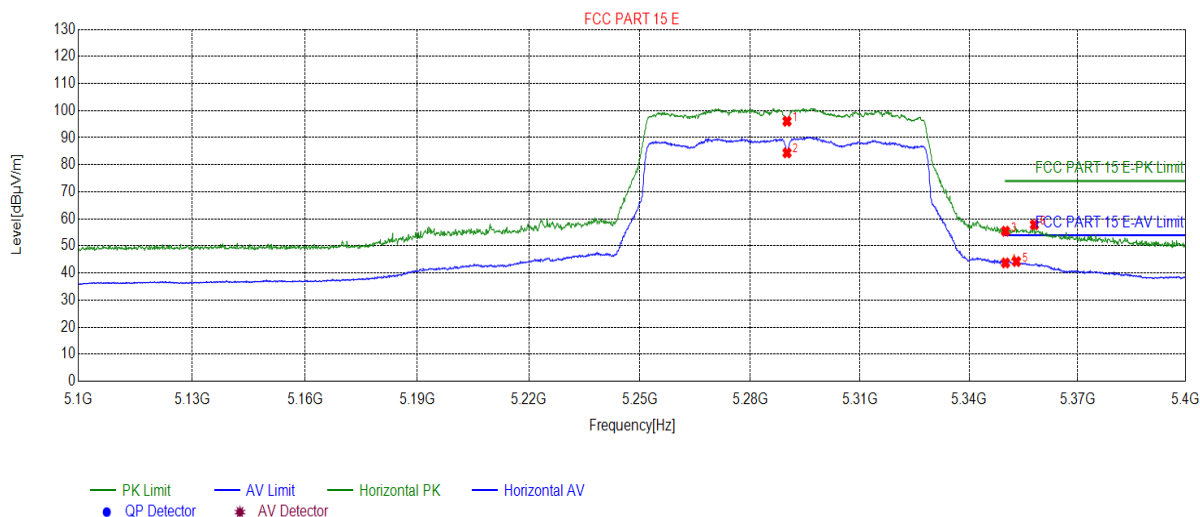
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4.10.1.87 802.11AC80_Channel 58 MIMO

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	96.07	18.48	0.00	-96.07	186	36	Horizontal
2	5290.00	84.37	18.48	0.00	-84.37	163	23	Horizontal
3	5350.00	55.44	18.54	74.00	18.56	259	30	Horizontal
4	5350.00	43.73	18.54	54.00	10.27	179	19	Horizontal
5	5353.02	44.24	18.55	54.00	9.76	204	30	Horizontal
6	5357.97	57.84	18.58	74.00	16.16	202	45	Horizontal

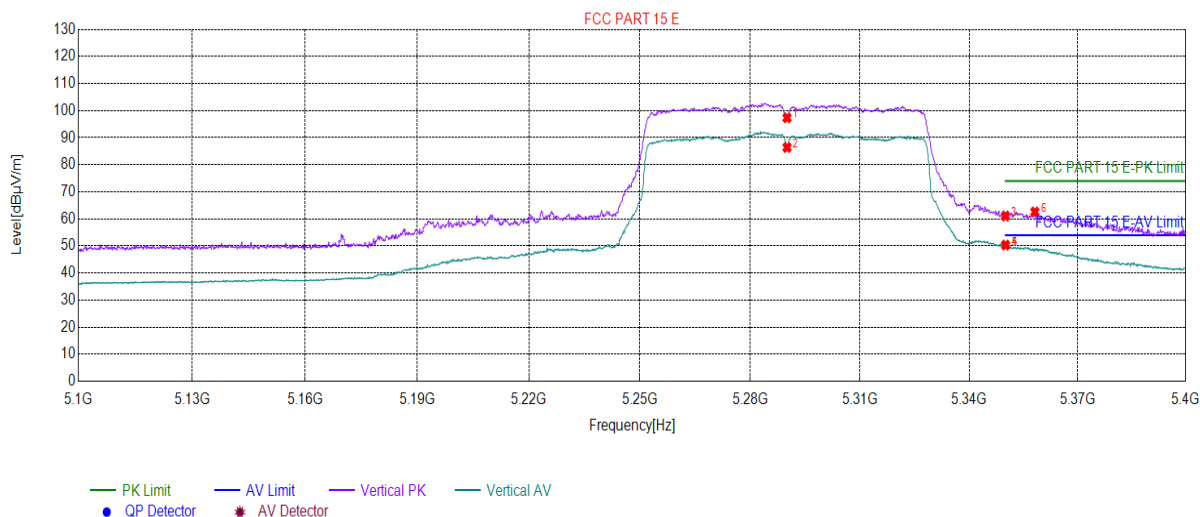
Final Data List



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4.10.1.88 802.11AC80_Channel 58 MIMO

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	97.34	18.48	0.00	-97.34	176	346	Vertical
2	5290.00	86.38	18.48	0.00	-86.38	163	346	Vertical
3	5350.00	61.07	18.54	74.00	12.93	203	346	Vertical
4	5350.02	50.32	18.54	54.00	3.68	221	359	Vertical
5	5350.17	50.05	18.54	54.00	3.95	199	348	Vertical
6	5358.12	62.57	18.58	74.00	11.43	189	352	Vertical

Final Data List



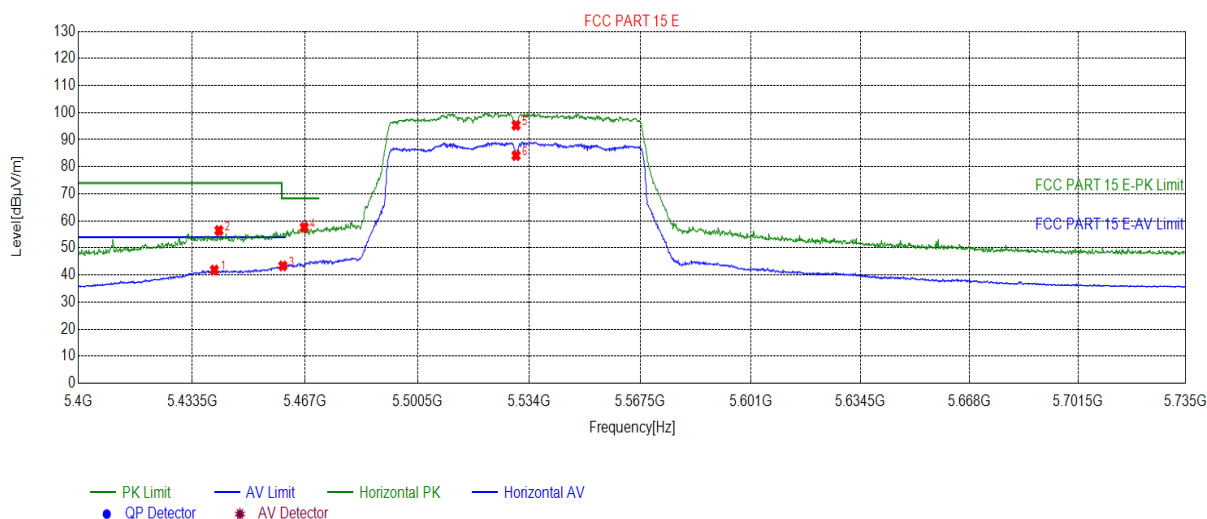
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4.10.1.89 802.11AC80_Channel 106 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5440.05	41.83	18.04	54.00	12.17	232	68	Horizontal
2	5441.39	56.46	18.07	74.00	17.54	241	68	Horizontal
3	5460.33	43.36	18.13	54.00	10.64	212	56	Horizontal
4	5466.69	57.60	18.20	68.30	10.70	196	30	Horizontal
5	5530.00	95.32	18.15	0.00	-95.32	187	18	Horizontal
6	5530.00	84.11	18.15	0.00	-84.11	205	22	Horizontal

Final Data List

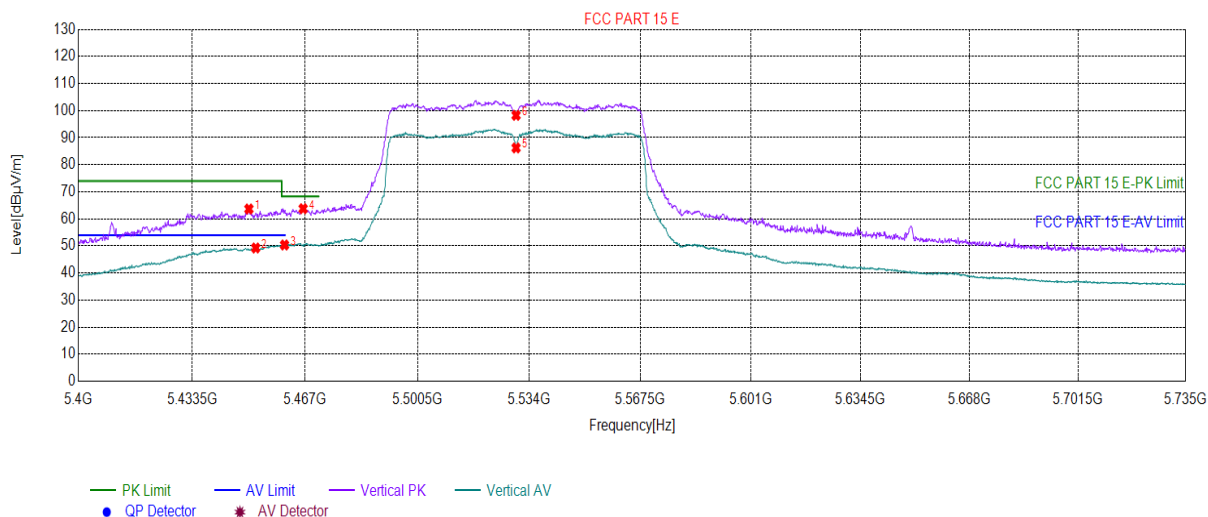


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4.10.1.90 802.11AC80_Channel 106 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.27	63.66	18.10	74.00	10.34	200	14	Vertical
2	5452.28	49.25	18.08	54.00	4.75	200	341	Vertical
3	5460.83	50.36	18.14	54.00	3.64	200	359	Vertical
4	5466.36	63.76	18.20	68.30	4.54	200	341	Vertical
5	5530.00	86.21	18.15	0.00	-86.21	200	322	Vertical
6	5530.00	98.25	18.15	0.00	-98.25	200	326	Vertical

Final Data List

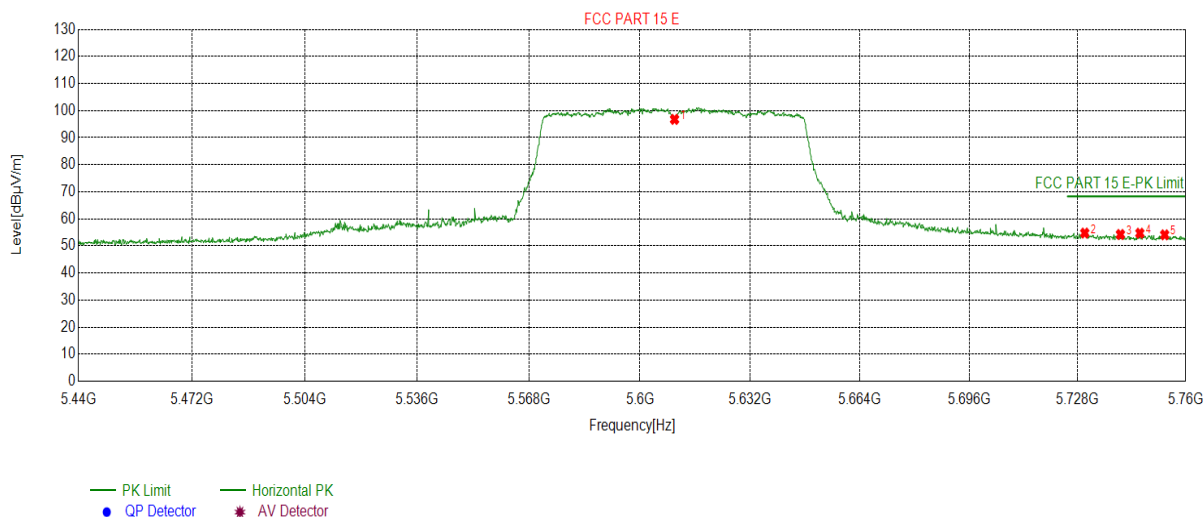


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4.10.1.91 802.11AC80_Channel 122 MIMO

Test Graph



Suspected List

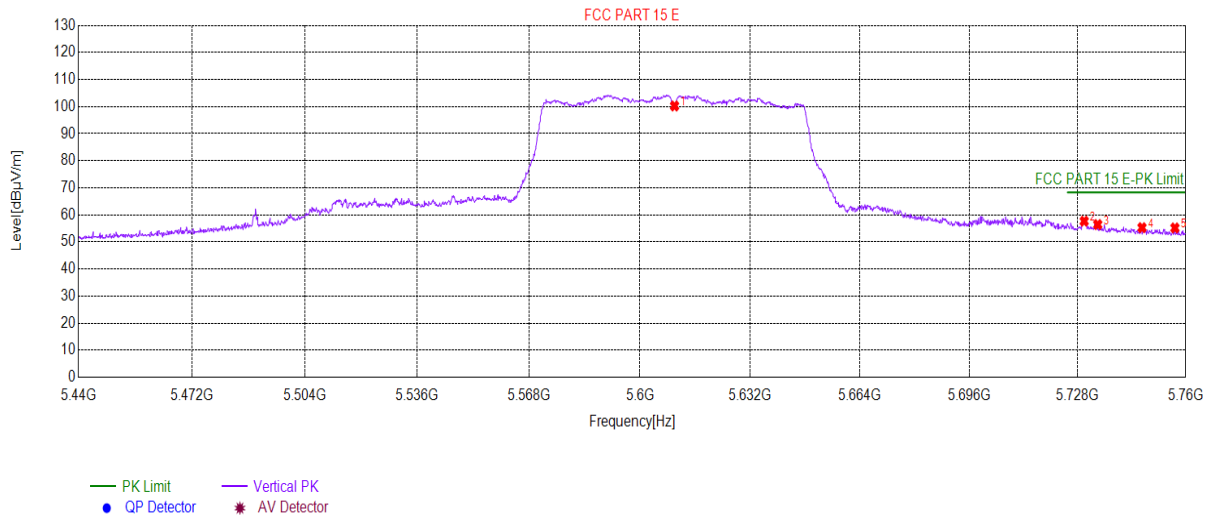
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.00	96.76	18.09	0.00	-96.76	241	39	Horizontal
2	5730.06	54.75	18.51	68.30	13.55	231	28	Horizontal
3	5740.63	54.24	18.33	68.30	14.06	202	14	Horizontal
4	5746.39	54.69	18.43	68.30	13.61	199	22	Horizontal
5	5753.75	54.11	18.44	68.30	14.19	198	92	Horizontal

Final Data List



4.10.1.92 802.11AC80_Channel 122 MIMO

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	100.23	18.09	0.00	-100.23	186	351	Vertical
2	5729.90	57.67	18.50	68.30	10.63	203	14	Vertical
3	5733.90	56.43	18.42	68.30	11.87	241	14	Vertical
4	5747.03	55.27	18.47	68.30	13.03	199	14	Vertical
5	5756.79	55.17	18.37	68.30	13.13	162	275	Vertical

Final Data List

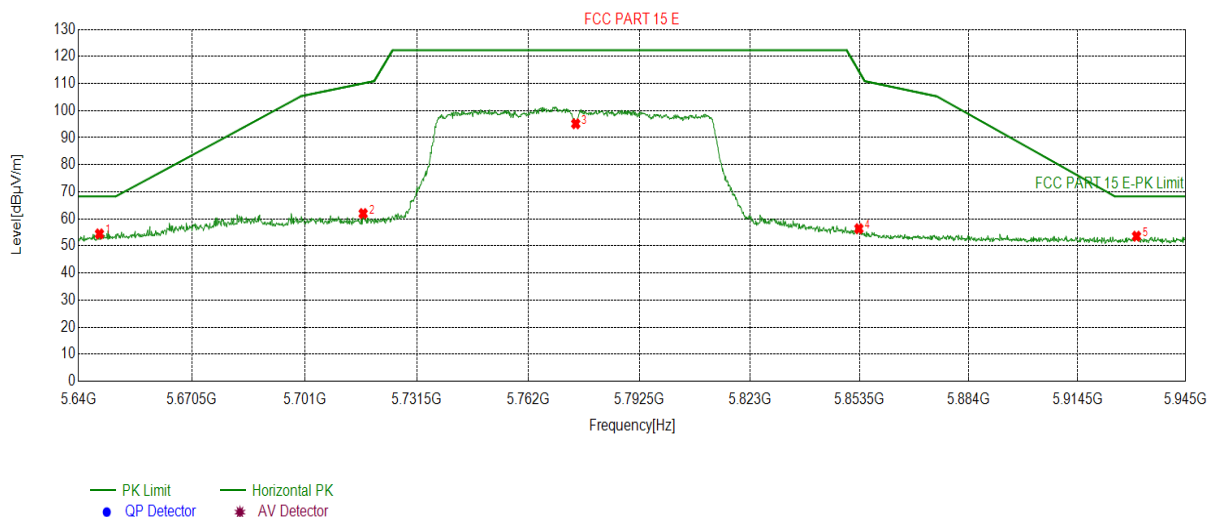


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4.10.1.93 802.11AC80_Channel 155 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5645.64	54.44	17.99	68.30	13.86	169	31	Horizontal
2	5716.89	61.97	18.44	110.03	48.06	179	24	Horizontal
3	5775.00	95.13	18.33	122.30	27.17	238	60	Horizontal
4	5853.30	56.38	18.70	114.77	58.39	279	38	Horizontal
5	5931.11	53.59	19.15	68.30	14.71	169	344	Horizontal

Final Data List



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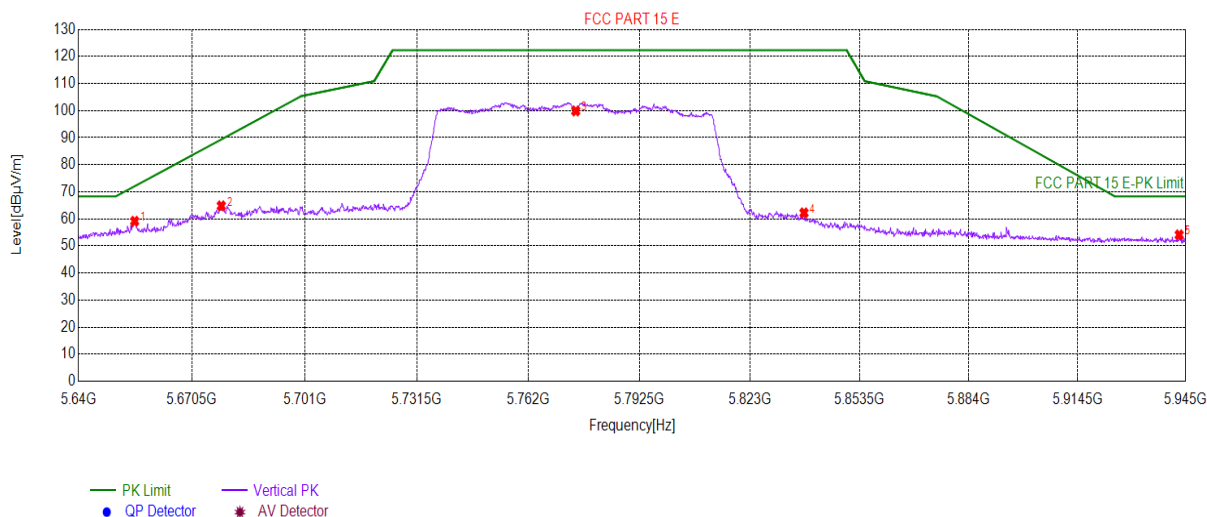
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4.10.1.94 802.11AC80_Channel 155 MIMO

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5655.10	59.13	18.11	72.08	12.95	256	19	Vertical
2	5678.44	64.80	18.22	89.35	24.55	279	358	Vertical
3	5775.00	99.88	18.33	122.30	22.42	163	16	Vertical
4	5838.04	62.22	18.67	122.30	60.08	198	16	Vertical
5	5943.16	54.08	18.87	68.30	14.22	211	186	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	5825
V nom(V)	5180.009753	5825.000905
V max(V)	5180.012743	5825.002074
V min(V)	5180.013239	5825.007037
Max. Deviation Frequency	0.013239	0.007037
Max. Frequency Error (ppm)	2.555851	1.208010

4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency (MHz)	
	5180	5825
-5	5180.002822	5825.001262
5	5180.008642	5825.002602
15	5180.014176	5825.010480
25	5180.014190	5825.013979
35	5180.018328	5825.022241
45	5180.023391	5825.031347
50	5180.031814	5825.037675
Max. Deviation Frequency	0.031814	0.037675
Max. Frequency Error (ppm)	6.141634	6.467809



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4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

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

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

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
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.		



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4.12.2 DFS Detection Thresholds

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

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



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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: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel move* (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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4.12.4 Test plots

4.12.4.1 DFS Detection Thresholds

4.12.4.1.1 Test Result

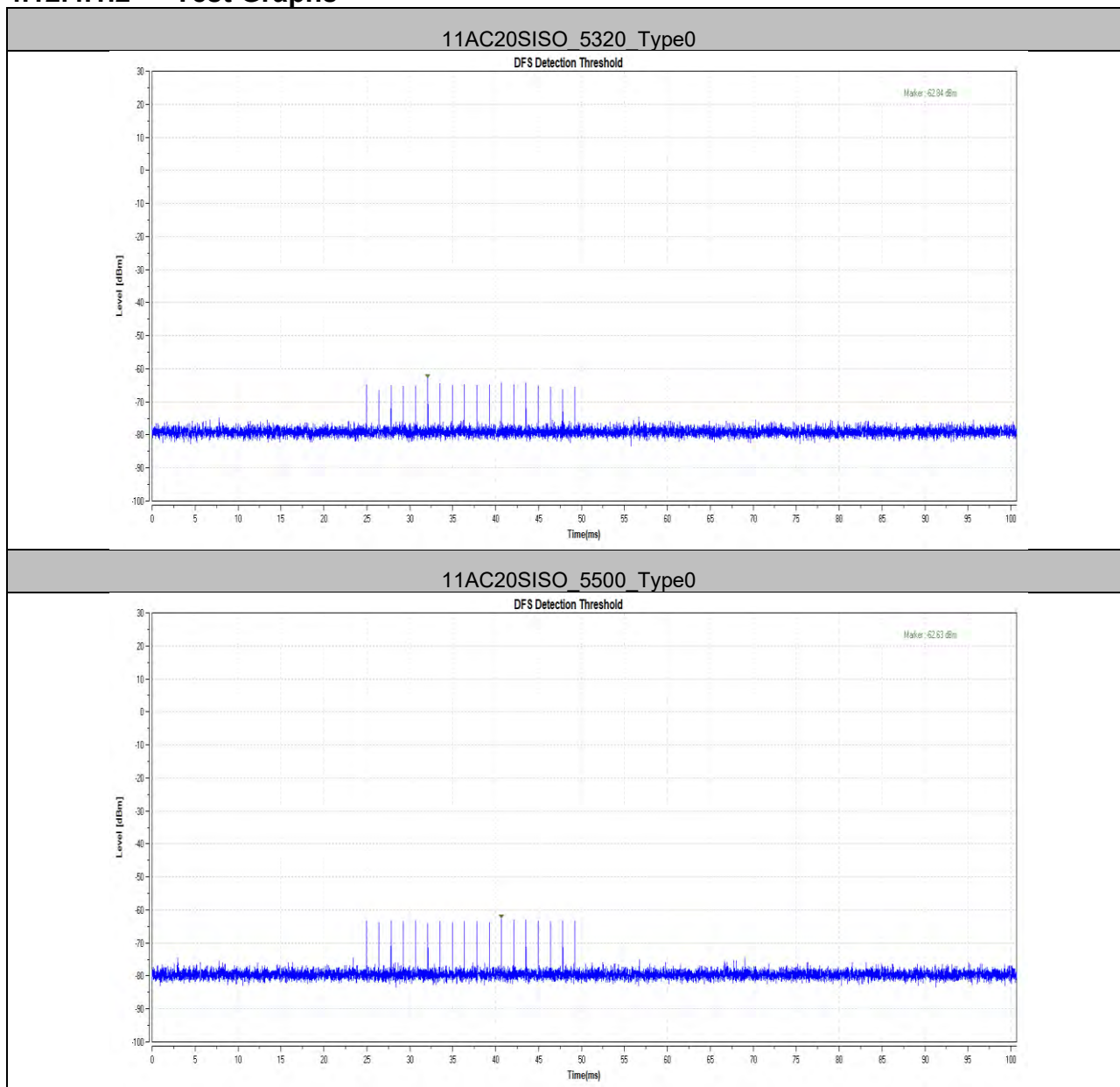
TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.84	-62.00	PASS
	5500	Type0	-62.63	-62.00	PASS
11AC80SISO	5290	Type0	-62.36	-62.00	PASS
	5530	Type0	-62.94	-62.00	PASS



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4.12.4.1.2 Test Graphs



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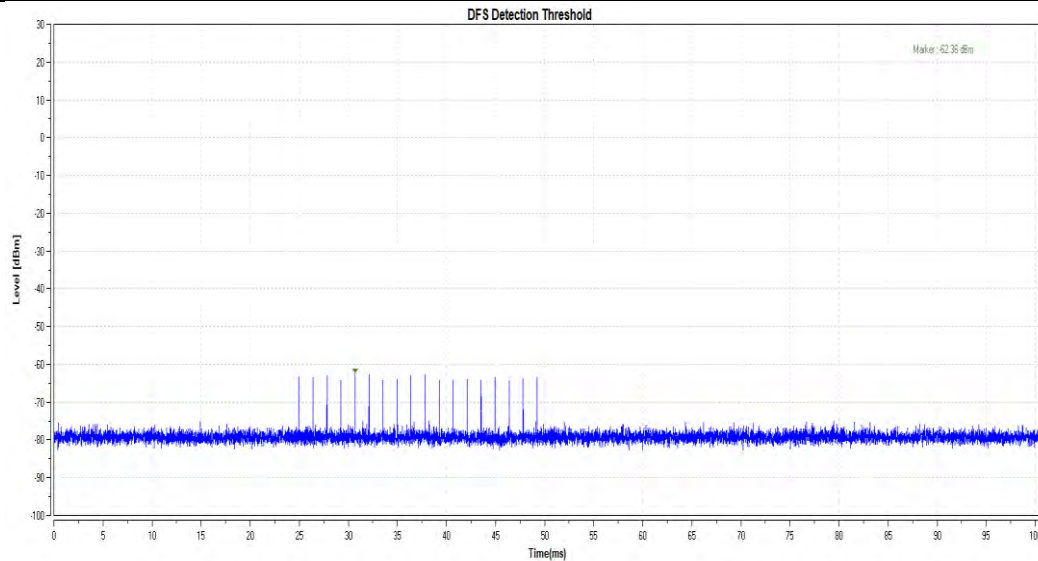
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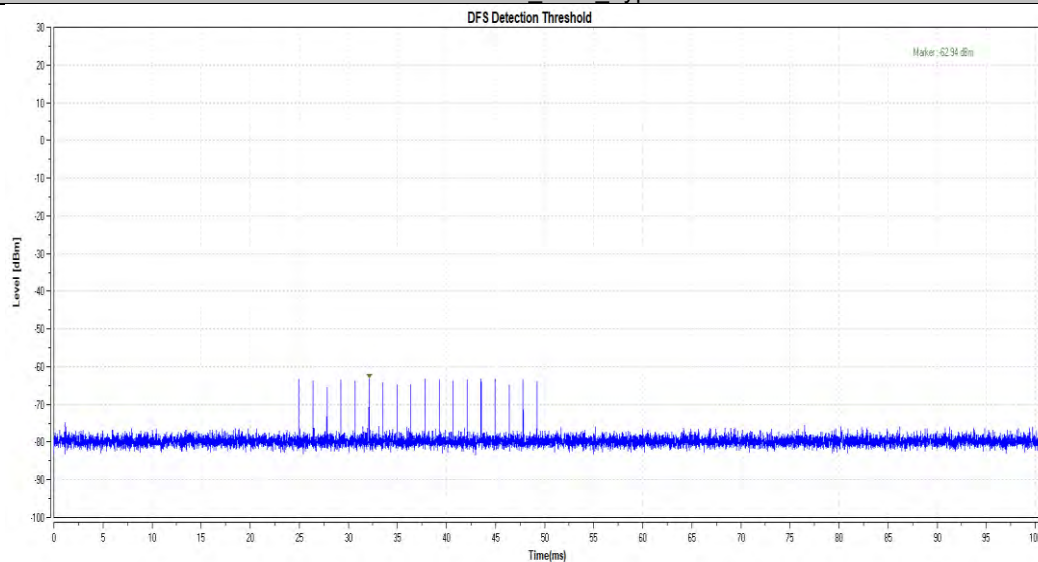
Report No.: ZR/2020/C003405

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11AC80SISO 5290 Type0



11AC80SISO 5530 Type0



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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

4.12.4.2.1 Test Result

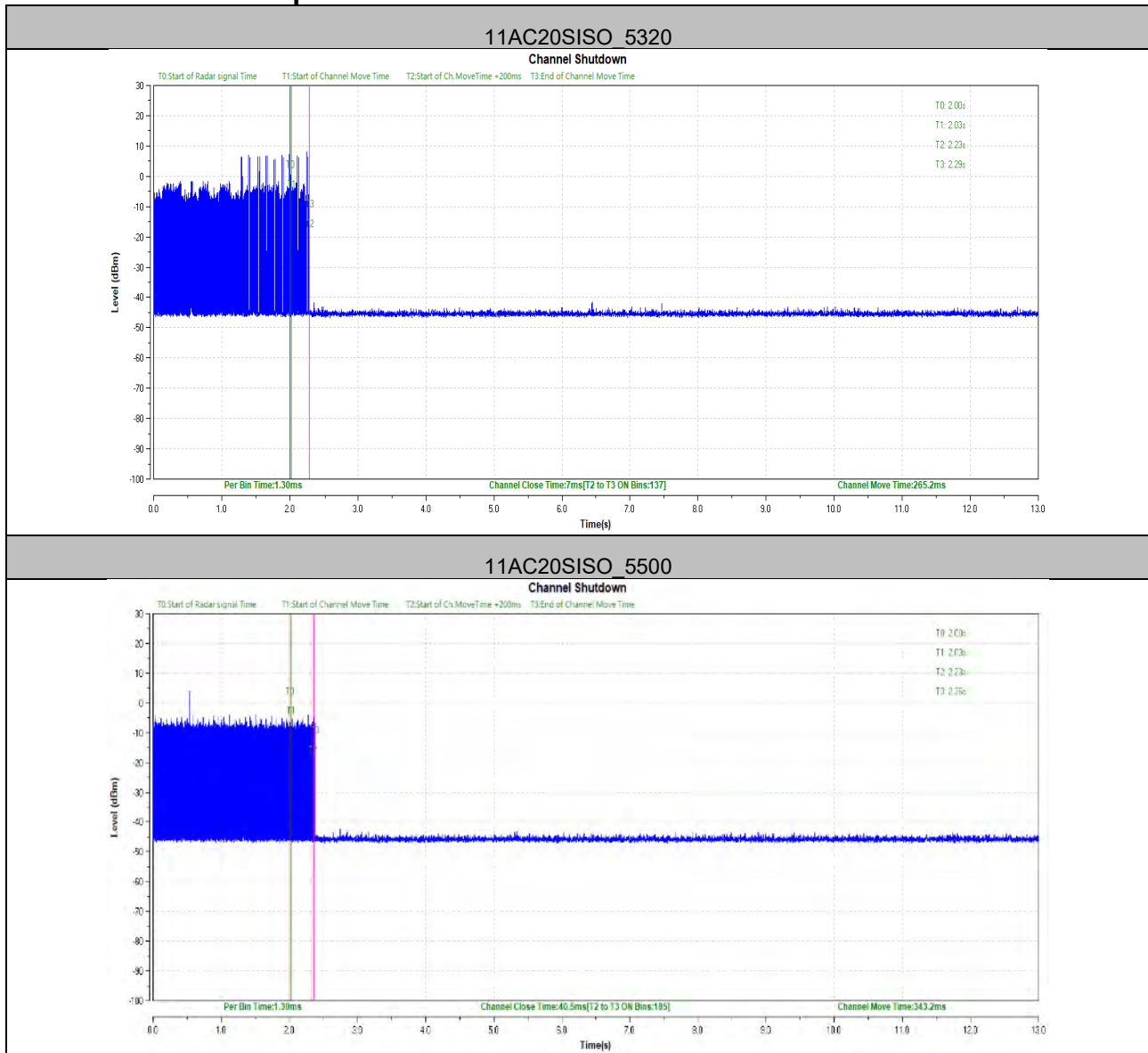
TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	7	60	265.2	10000	PASS
	5500	40.5	60	343.2	10000	PASS
11AC80SISO	5290	0	60	226.2	10000	PASS
	5530	33.3	60	293.8	10000	PASS



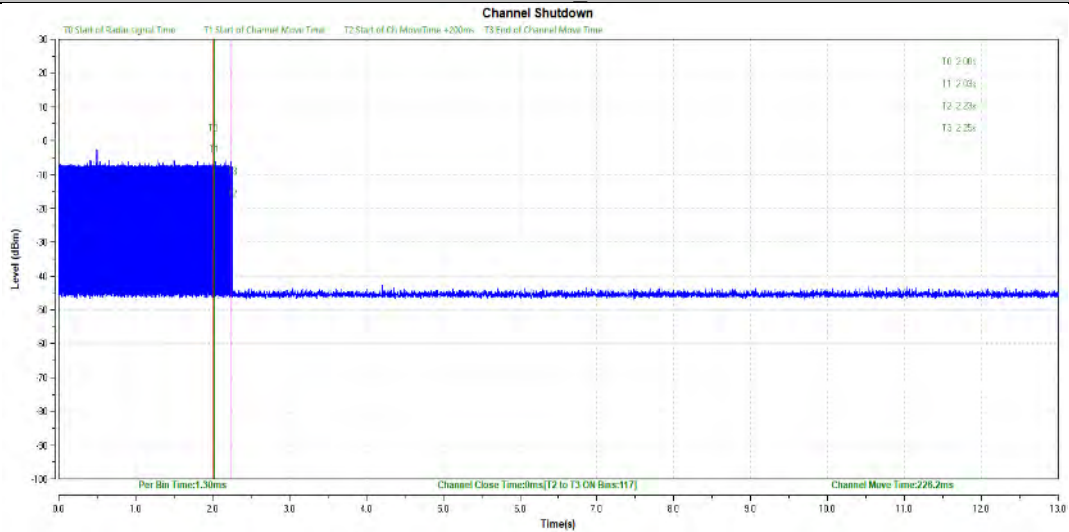
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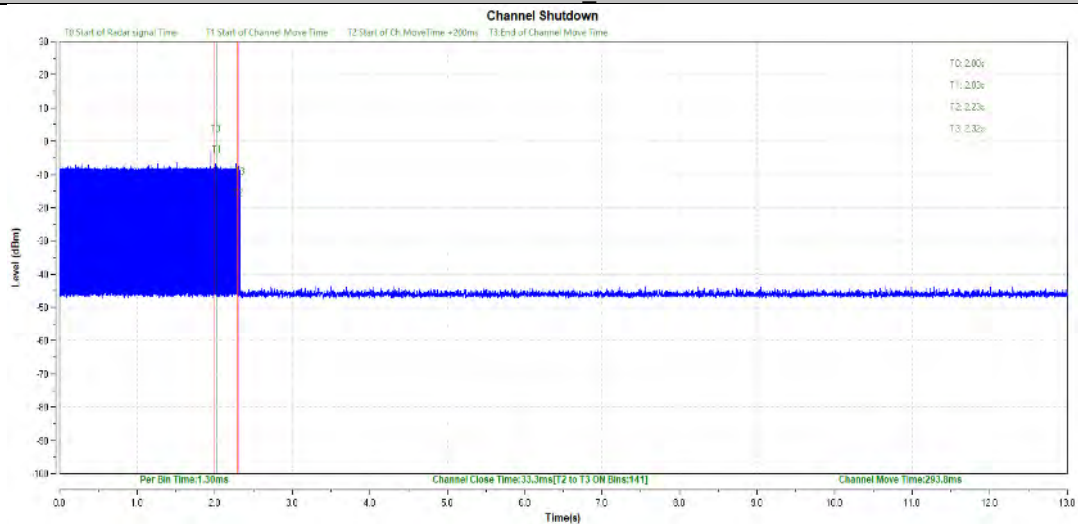
4.12.4.2.2 Test Graphs



11AC80SISO_5290



11AC80SISO_5530



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4.12.4.3 Non-Occupancy Period

4.12.4.3.1 Test Result

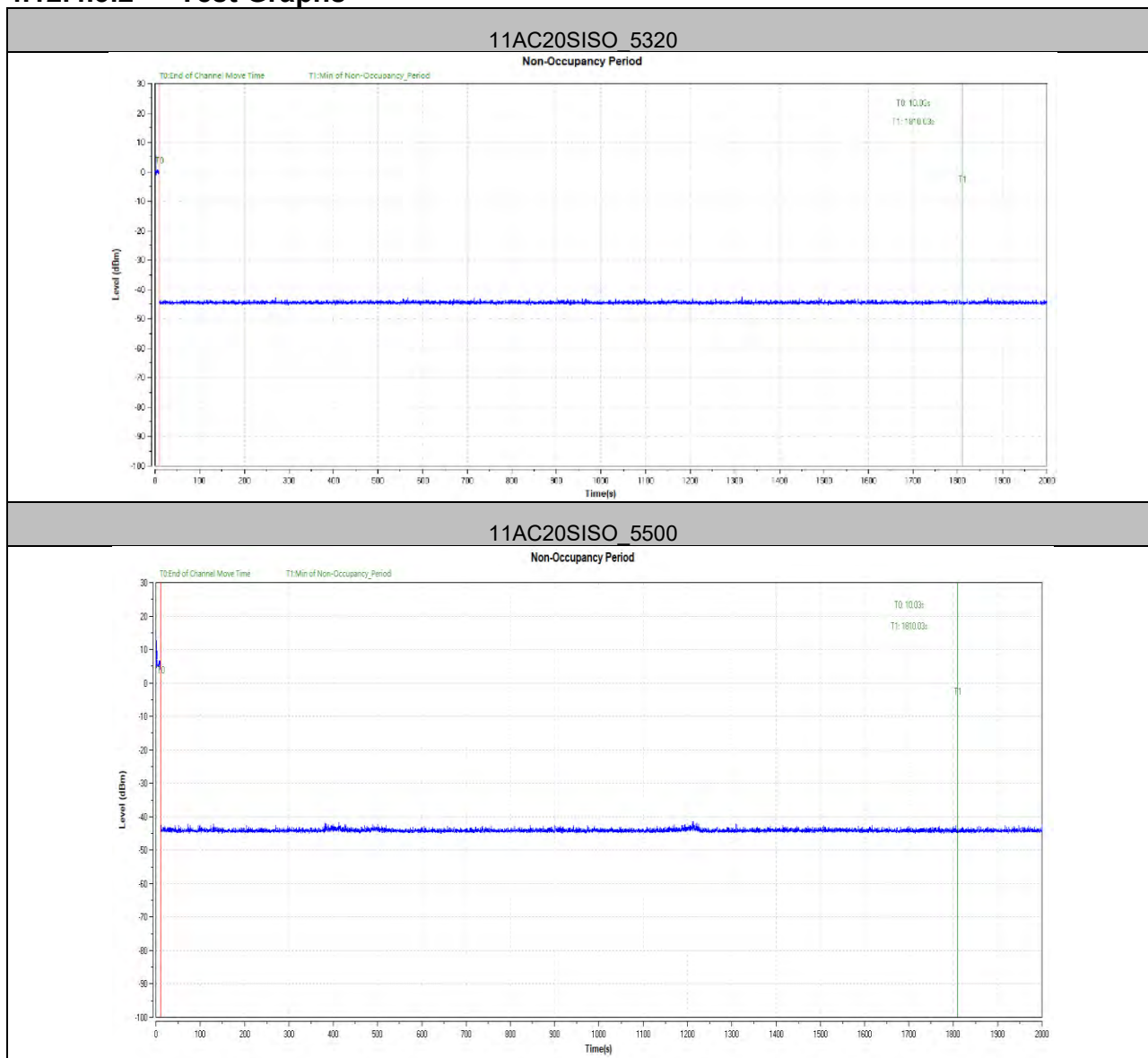
TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	≥ 1800	PASS
	5500	see test graph	≥ 1800	PASS
11AC80SISO	5290	see test graph	≥ 1800	PASS
	5530	see test graph	≥ 1800	PASS



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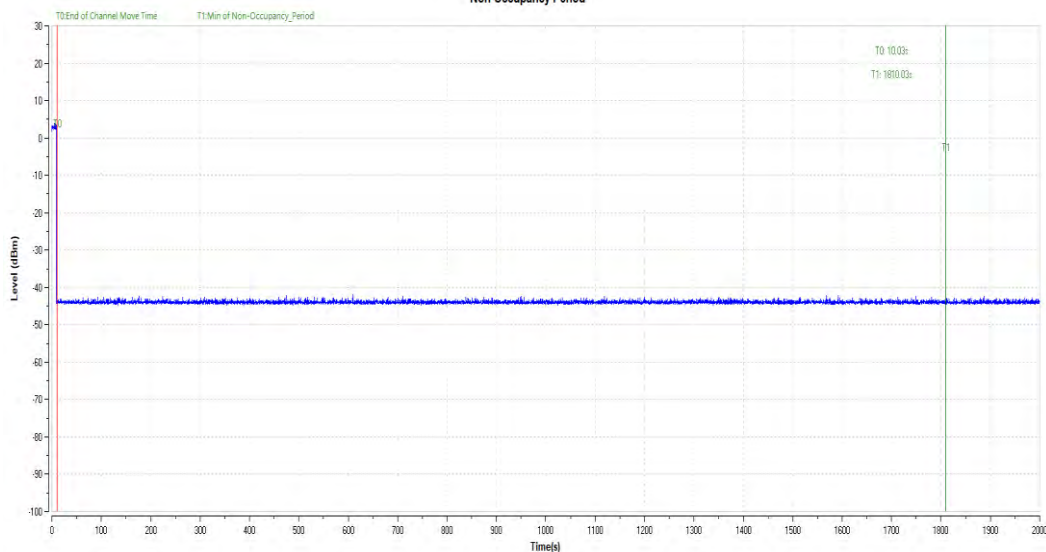
4.12.4.3.2 Test Graphs



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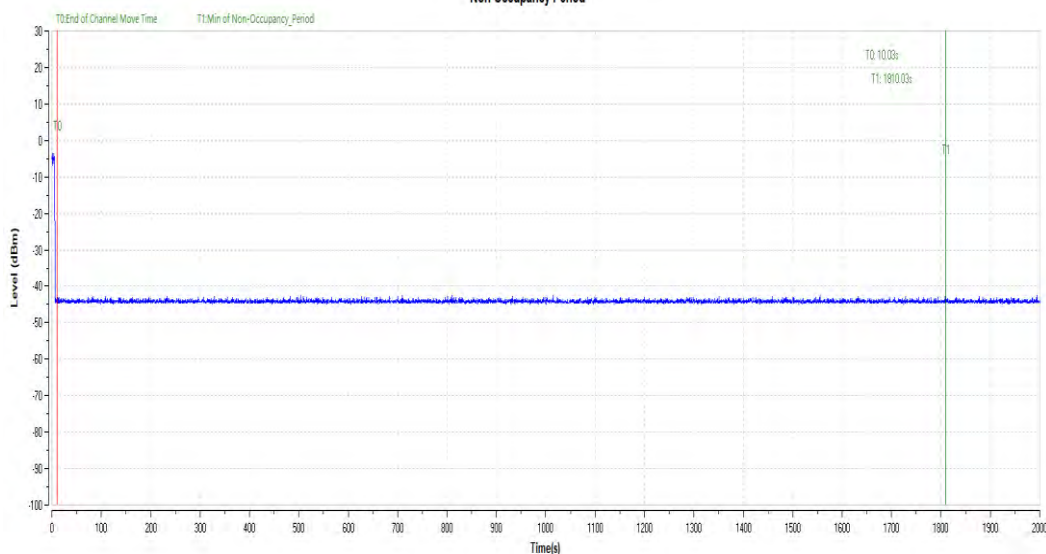
11AC80SISO 5290

Non-Occupancy Period



11AC80SISO 5530

Non-Occupancy Period



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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 ⁻⁸
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%

Lab B:

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



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6 Equipment List

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/4/16	2021/4/15
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2020/4/21	2021/4/20

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	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	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
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	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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7 Photographs - EUT Constructional Details

Refer to Appendix A PCE & NII & DTS & DSS Setup Photos.



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Appendix



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Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.870	---	PASS
	Ant2	5180	23.460	---	PASS
	Ant1	5200	23.790	---	PASS
	Ant2	5200	23.520	---	PASS
	Ant1	5240	23.880	---	PASS
	Ant2	5240	24.480	---	PASS
	Ant1	5260	23.880	---	PASS
	Ant2	5260	26.880	---	PASS
	Ant1	5300	23.940	---	PASS
	Ant2	5300	23.460	---	PASS
	Ant1	5320	23.970	---	PASS
	Ant2	5320	23.640	---	PASS
	Ant1	5500	23.820	---	PASS
	Ant2	5500	23.970	---	PASS
	Ant1	5580	24.150	---	PASS
	Ant2	5580	23.310	---	PASS
	Ant1	5700	25.020	---	PASS
	Ant2	5700	23.550	---	PASS
	Ant1	5720	21.898	---	PASS
	Ant2	5720	22.298	---	PASS
	Ant1	5745	23.670	---	PASS
	Ant2	5745	23.790	---	PASS
	Ant1	5785	23.790	---	PASS
	Ant2	5785	23.370	---	PASS
	Ant1	5825	23.850	---	PASS



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	Ant2	5825	23.910	---	PASS
11N20SISO	Ant1	5180	25.590	---	PASS
	Ant2	5180	24.450	---	PASS
	Ant1	5200	25.590	---	PASS
	Ant2	5200	25.590	---	PASS
	Ant1	5240	25.110	---	PASS
	Ant2	5240	24.720	---	PASS
	Ant1	5260	24.600	---	PASS
	Ant2	5260	24.930	---	PASS
	Ant1	5300	25.170	---	PASS
	Ant2	5300	24.570	---	PASS
	Ant1	5320	24.270	---	PASS
	Ant2	5320	24.690	---	PASS
	Ant1	5500	25.170	---	PASS
	Ant2	5500	24.510	---	PASS
	Ant1	5580	25.020	---	PASS
	Ant2	5580	25.080	---	PASS
	Ant1	5700	24.750	---	PASS
	Ant2	5700	25.140	---	PASS
	Ant1	5720	23.057	---	PASS
	Ant2	5720	23.017	---	PASS
	Ant1	5745	25.170	---	PASS
	Ant2	5745	25.380	---	PASS
	Ant1	5785	24.390	---	PASS
	Ant2	5785	24.660	---	PASS
	Ant1	5825	24.900	---	PASS
	Ant2	5825	24.420	---	PASS
11N40SISO	Ant1	5190	41.820	---	PASS
	Ant2	5190	41.760	---	PASS



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	Ant1	5230	42.000	---	PASS
	Ant2	5230	41.760	---	PASS
	Ant1	5270	41.820	---	PASS
	Ant2	5270	42.240	---	PASS
	Ant1	5310	42.180	---	PASS
	Ant2	5310	41.880	---	PASS
	Ant1	5510	41.760	---	PASS
	Ant2	5510	42.000	---	PASS
	Ant1	5550	42.180	---	PASS
	Ant2	5550	42.120	---	PASS
	Ant1	5670	42.180	---	PASS
	Ant2	5670	42.420	---	PASS
	Ant1	5710	41.878	---	PASS
	Ant2	5710	41.718	---	PASS
	Ant1	5755	42.120	---	PASS
	Ant2	5755	41.820	---	PASS
	Ant1	5795	42.120	---	PASS
	Ant2	5795	41.820	---	PASS
11AC20SISO	Ant1	5180	25.110	---	PASS
	Ant2	5180	25.590	---	PASS
	Ant1	5200	24.870	---	PASS
	Ant2	5200	24.810	---	PASS
	Ant1	5240	24.810	---	PASS
	Ant2	5240	24.870	---	PASS
	Ant1	5260	24.330	---	PASS
	Ant2	5260	25.590	---	PASS
	Ant1	5300	24.450	---	PASS
	Ant2	5300	24.840	---	PASS
	Ant1	5320	24.420	---	PASS



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	Ant2	5320	25.170	---	PASS
	Ant1	5500	24.630	---	PASS
	Ant2	5500	24.360	---	PASS
	Ant1	5580	24.960	---	PASS
	Ant2	5580	25.680	---	PASS
	Ant1	5700	24.990	---	PASS
	Ant2	5700	24.600	---	PASS
	Ant1	5720	23.257	---	PASS
	Ant2	5720	23.137	---	PASS
	Ant1	5745	25.200	---	PASS
	Ant2	5745	23.910	---	PASS
	Ant1	5785	24.720	---	PASS
	Ant2	5785	25.470	---	PASS
	Ant1	5825	25.620	---	PASS
	Ant2	5825	25.320	---	PASS
11AC40SISO	Ant1	5190	42.120	---	PASS
	Ant2	5190	41.760	---	PASS
	Ant1	5230	41.880	---	PASS
	Ant2	5230	41.820	---	PASS
	Ant1	5270	41.940	---	PASS
	Ant2	5270	42.120	---	PASS
	Ant1	5310	42.420	---	PASS
	Ant2	5310	41.760	---	PASS
	Ant1	5510	42.060	---	PASS
	Ant2	5510	47.040	---	PASS
	Ant1	5550	42.000	---	PASS
	Ant2	5550	41.820	---	PASS
	Ant1	5670	42.060	---	PASS
	Ant2	5670	41.880	---	PASS



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	Ant1	5710	41.558	---	PASS
	Ant2	5710	41.718	---	PASS
	Ant1	5755	41.820	---	PASS
	Ant2	5755	41.880	---	PASS
	Ant1	5795	42.000	---	PASS
	Ant2	5795	42.060	---	PASS
11AC80SISO	Ant1	5210	87.840	---	PASS
	Ant2	5210	92.400	---	PASS
	Ant1	5290	98.640	---	PASS
	Ant2	5290	92.760	---	PASS
	Ant1	5530	84.960	---	PASS
	Ant2	5530	93.360	---	PASS
	Ant1	5610	84.480	---	PASS
	Ant2	5610	93.120	---	PASS
	Ant1	5690	84.400	---	PASS
	Ant2	5690	84.560	---	PASS
	Ant1	5775	84.840	---	PASS
	Ant2	5775	92.760	---	PASS
11A-CDD	Ant1	5180	25.020	---	PASS
	Ant2	5180	24.000	---	PASS
	Ant1	5200	25.380	---	PASS
	Ant2	5200	24.180	---	PASS
	Ant1	5240	23.850	---	PASS
	Ant2	5240	23.760	---	PASS
	Ant1	5260	24.540	---	PASS
	Ant2	5260	24.600	---	PASS
	Ant1	5300	23.880	---	PASS
	Ant2	5300	23.940	---	PASS
	Ant1	5320	23.820	---	PASS



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	Ant2	5320	24.180	---	PASS
	Ant1	5500	23.910	---	PASS
	Ant2	5500	24.270	---	PASS
	Ant1	5580	25.380	---	PASS
	Ant2	5580	23.460	---	PASS
	Ant1	5700	23.670	---	PASS
	Ant2	5700	23.520	---	PASS
	Ant1	5720	22.338	---	PASS
	Ant2	5720	22.258	---	PASS
	Ant1	5745	23.880	---	PASS
	Ant2	5745	23.340	---	PASS
	Ant1	5785	24.030	---	PASS
	Ant2	5785	23.490	---	PASS
	Ant1	5825	24.210	---	PASS
	Ant2	5825	23.370	---	PASS
11N20MIMO	Ant1	5180	24.780	---	PASS
	Ant2	5180	24.690	---	PASS
	Ant1	5200	25.590	---	PASS
	Ant2	5200	24.270	---	PASS
	Ant1	5240	24.360	---	PASS
	Ant2	5240	24.660	---	PASS
	Ant1	5260	24.810	---	PASS
	Ant2	5260	24.720	---	PASS
	Ant1	5300	25.410	---	PASS
	Ant2	5300	24.660	---	PASS
	Ant1	5320	25.530	---	PASS
	Ant2	5320	24.540	---	PASS
	Ant1	5500	25.770	---	PASS
	Ant2	5500	24.660	---	PASS



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	Ant1	5580	25.650	---	PASS
	Ant2	5580	24.360	---	PASS
	Ant1	5700	24.810	---	PASS
	Ant2	5700	24.690	---	PASS
	Ant1	5720	23.457	---	PASS
	Ant2	5720	22.857	---	PASS
	Ant1	5745	24.840	---	PASS
	Ant2	5745	24.660	---	PASS
	Ant1	5785	26.040	---	PASS
	Ant2	5785	24.270	---	PASS
	Ant1	5825	24.810	---	PASS
	Ant2	5825	24.510	---	PASS
11N40MIMO	Ant1	5190	42.180	---	PASS
	Ant2	5190	41.880	---	PASS
	Ant1	5230	42.060	---	PASS
	Ant2	5230	42.360	---	PASS
	Ant1	5270	42.000	---	PASS
	Ant2	5270	42.360	---	PASS
	Ant1	5310	42.120	---	PASS
	Ant2	5310	42.060	---	PASS
	Ant1	5510	42.180	---	PASS
	Ant2	5510	42.000	---	PASS
	Ant1	5550	41.940	---	PASS
	Ant2	5550	41.940	---	PASS
	Ant1	5670	42.300	---	PASS
	Ant2	5670	41.880	---	PASS
	Ant1	5710	41.718	---	PASS
	Ant2	5710	41.479	---	PASS
	Ant1	5755	42.180	---	PASS



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	Ant2	5755	41.940	---	PASS
	Ant1	5795	42.120	---	PASS
	Ant2	5795	41.820	---	PASS
11AC20MIMO	Ant1	5180	24.870	---	PASS
	Ant2	5180	24.180	---	PASS
	Ant1	5200	24.630	---	PASS
	Ant2	5200	24.870	---	PASS
	Ant1	5240	24.720	---	PASS
	Ant2	5240	24.780	---	PASS
	Ant1	5260	24.480	---	PASS
	Ant2	5260	24.240	---	PASS
	Ant1	5300	24.750	---	PASS
	Ant2	5300	24.930	---	PASS
	Ant1	5320	24.420	---	PASS
	Ant2	5320	24.240	---	PASS
	Ant1	5500	23.490	---	PASS
	Ant2	5500	25.020	---	PASS
	Ant1	5580	24.750	---	PASS
	Ant2	5580	24.990	---	PASS
	Ant1	5700	24.600	---	PASS
	Ant2	5700	24.120	---	PASS
	Ant1	5720	23.177	---	PASS
	Ant2	5720	23.337	---	PASS
	Ant1	5745	24.810	---	PASS
	Ant2	5745	24.600	---	PASS
	Ant1	5785	24.480	---	PASS
	Ant2	5785	24.840	---	PASS
	Ant1	5825	24.960	---	PASS
	Ant2	5825	24.090	---	PASS



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11AC40MIMO	Ant1	5190	41.700	---	PASS
	Ant2	5190	41.820	---	PASS
	Ant1	5230	42.060	---	PASS
	Ant2	5230	42.000	---	PASS
	Ant1	5270	42.060	---	PASS
	Ant2	5270	41.280	---	PASS
	Ant1	5310	41.820	---	PASS
	Ant2	5310	42.300	---	PASS
	Ant1	5510	42.180	---	PASS
	Ant2	5510	42.120	---	PASS
	Ant1	5550	42.120	---	PASS
	Ant2	5550	41.700	---	PASS
	Ant1	5670	41.820	---	PASS
	Ant2	5670	41.880	---	PASS
	Ant1	5710	41.558	---	PASS
	Ant2	5710	41.718	---	PASS
	Ant1	5755	41.940	---	PASS
	Ant2	5755	41.640	---	PASS
	Ant1	5795	42.000	---	PASS
	Ant2	5795	41.700	---	PASS
11AC80MIMO	Ant1	5210	84.720	---	PASS
	Ant2	5210	84.600	---	PASS
	Ant1	5290	84.600	---	PASS
	Ant2	5290	85.080	---	PASS
	Ant1	5530	84.600	---	PASS
	Ant2	5530	84.360	---	PASS
	Ant1	5610	84.840	---	PASS
	Ant2	5610	84.240	---	PASS
	Ant1	5690	84.24	---	PASS



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	Ant2	5690	84.240	---	PASS
	Ant1	5775	85.080	---	PASS
	Ant2	5775	84.480	---	PASS



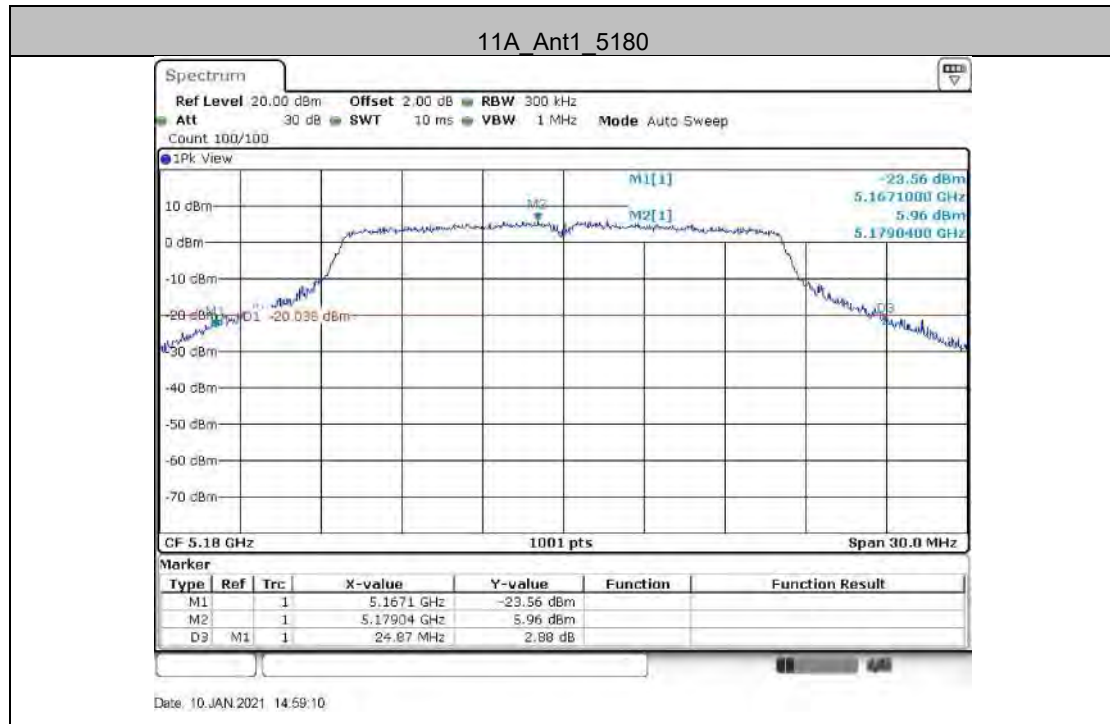
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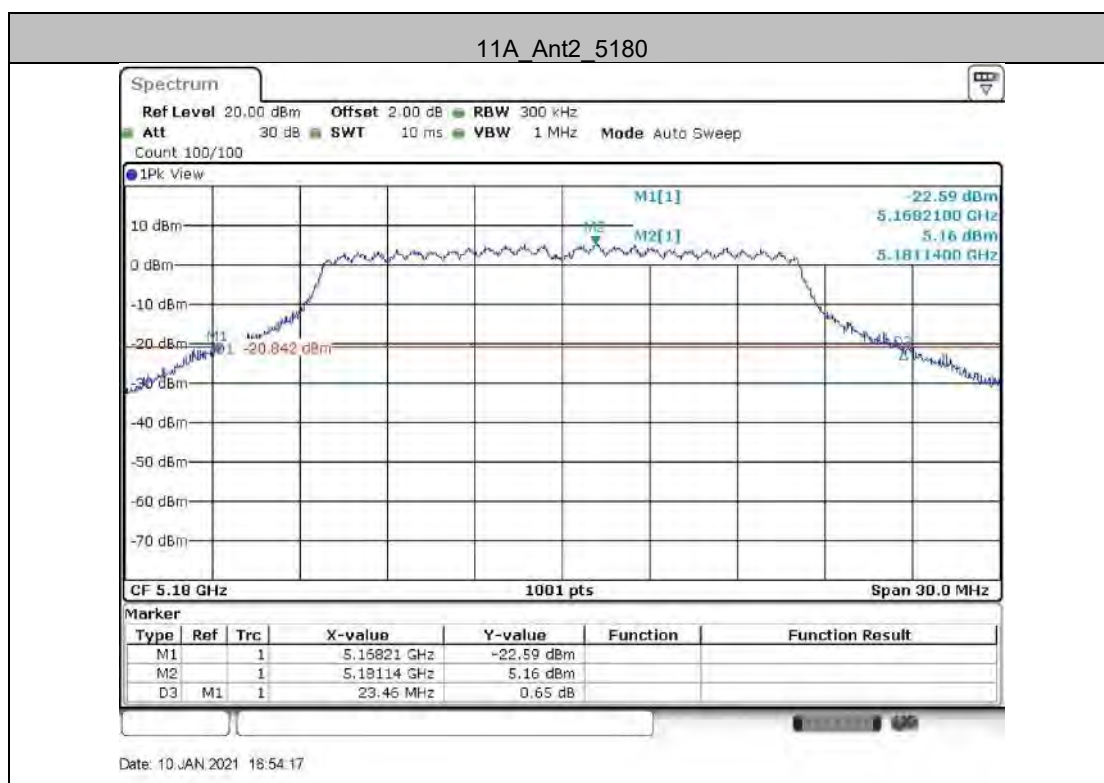
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Test Graphs



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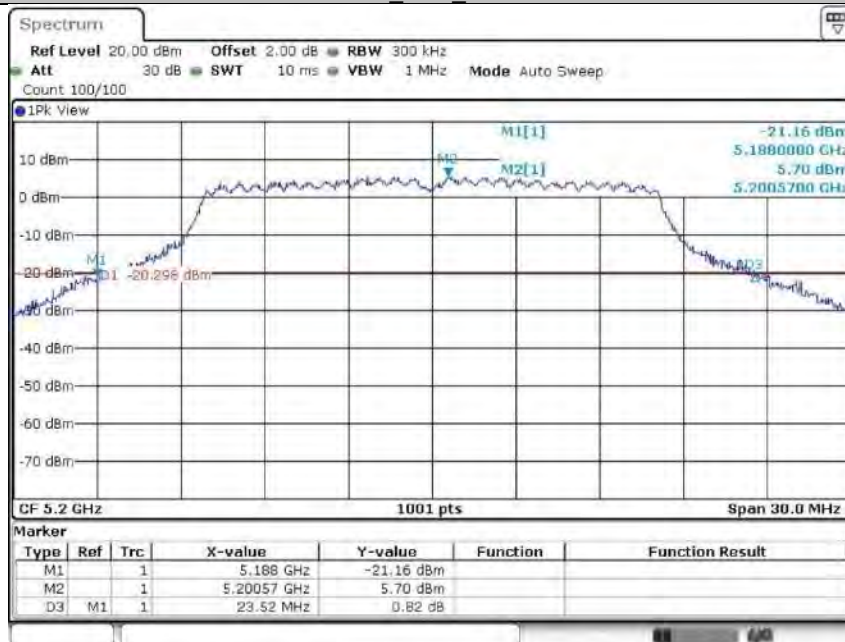


11A Ant1 5200



Date: 10 JAN 2021 15:00:22

11A Ant2 5200



Date: 10 JAN 2021 16:55:46

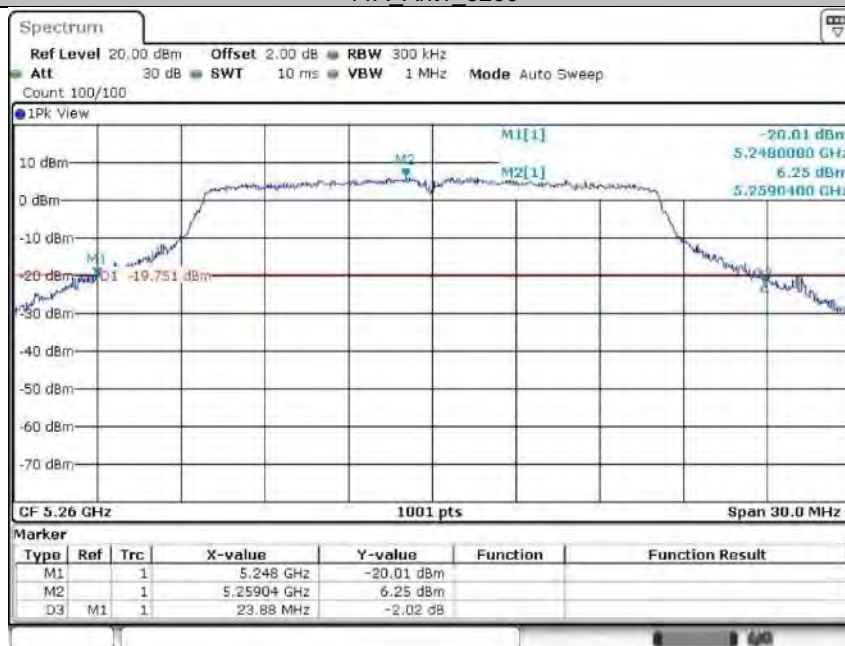


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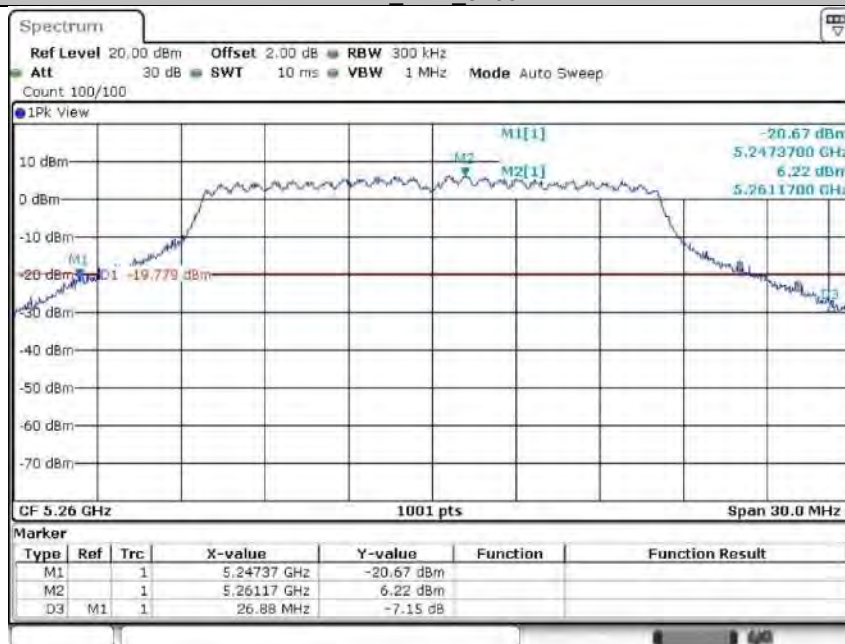


11A Ant1 5260



Date: 10 JAN 2021 15:02:40

11A Ant2 5260

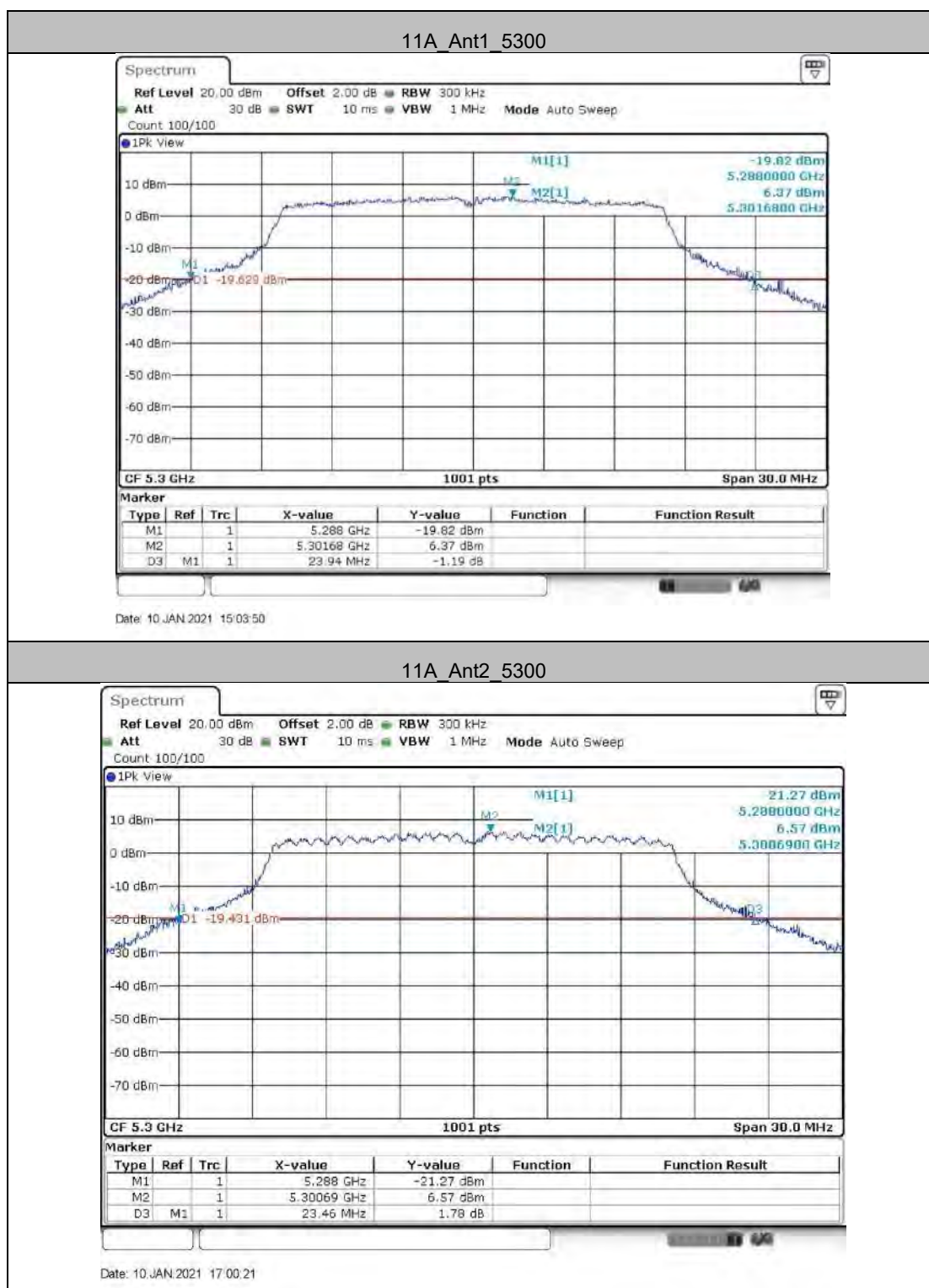


Date: 10 JAN 2021 16:58:42



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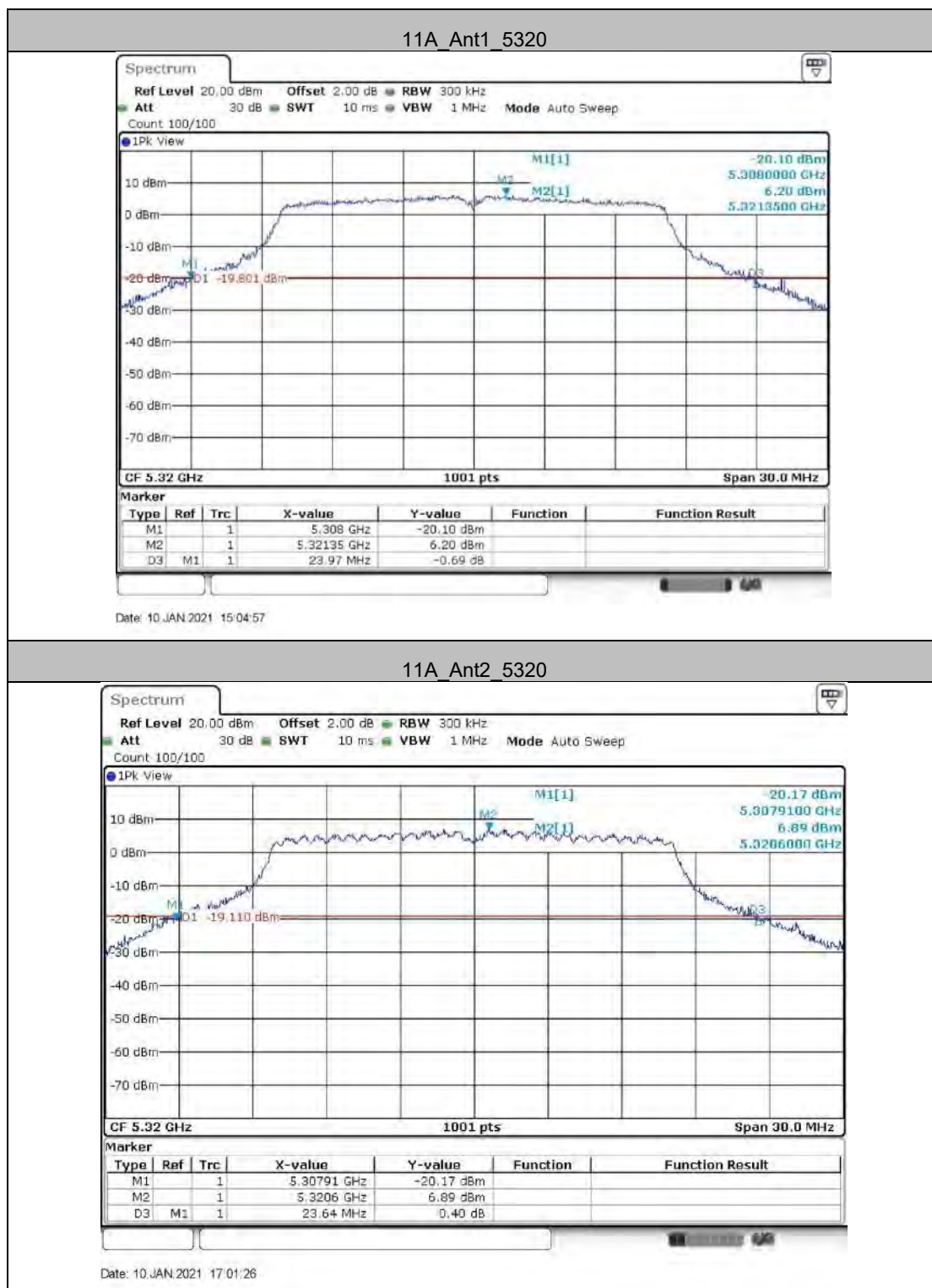
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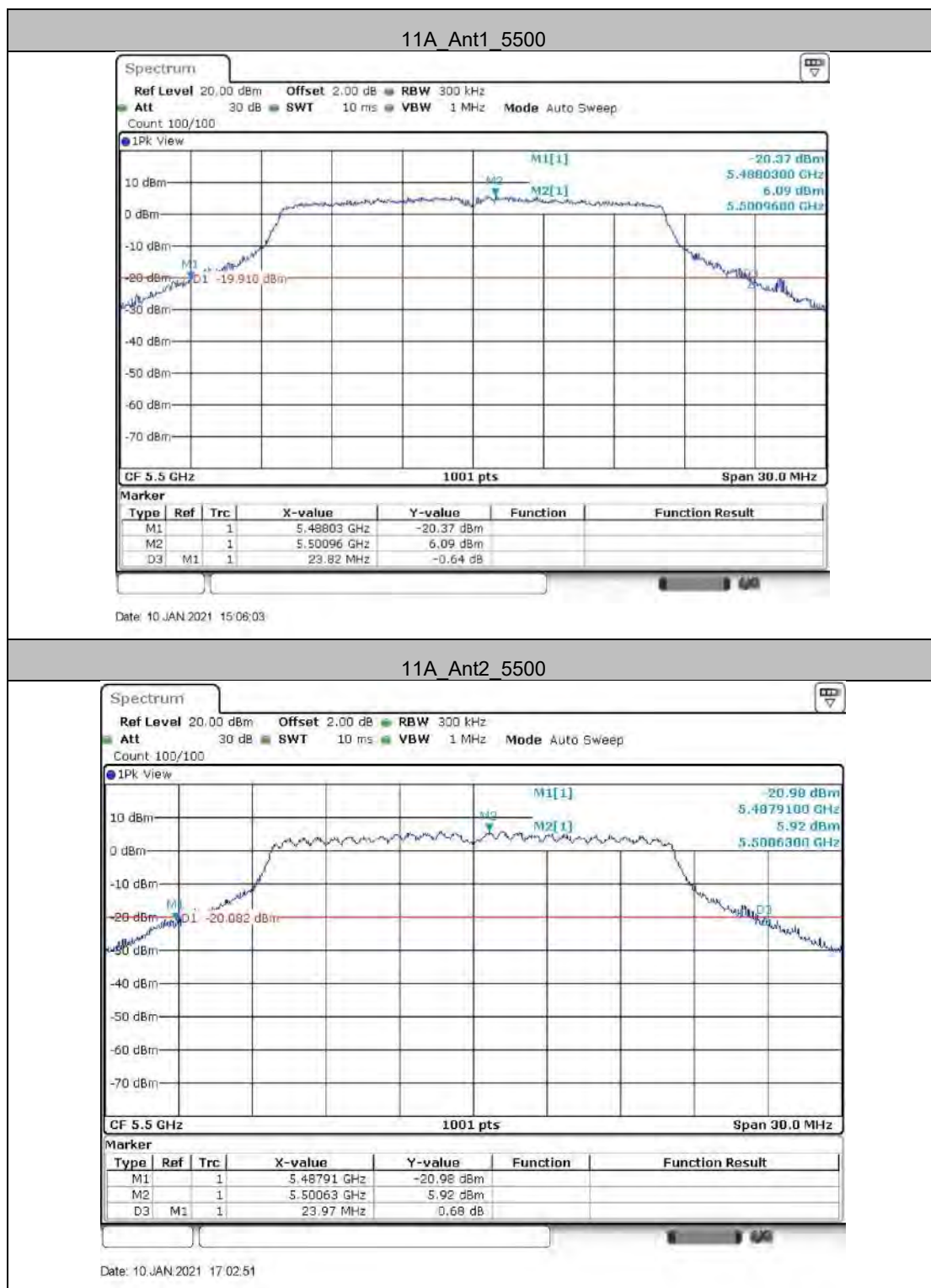
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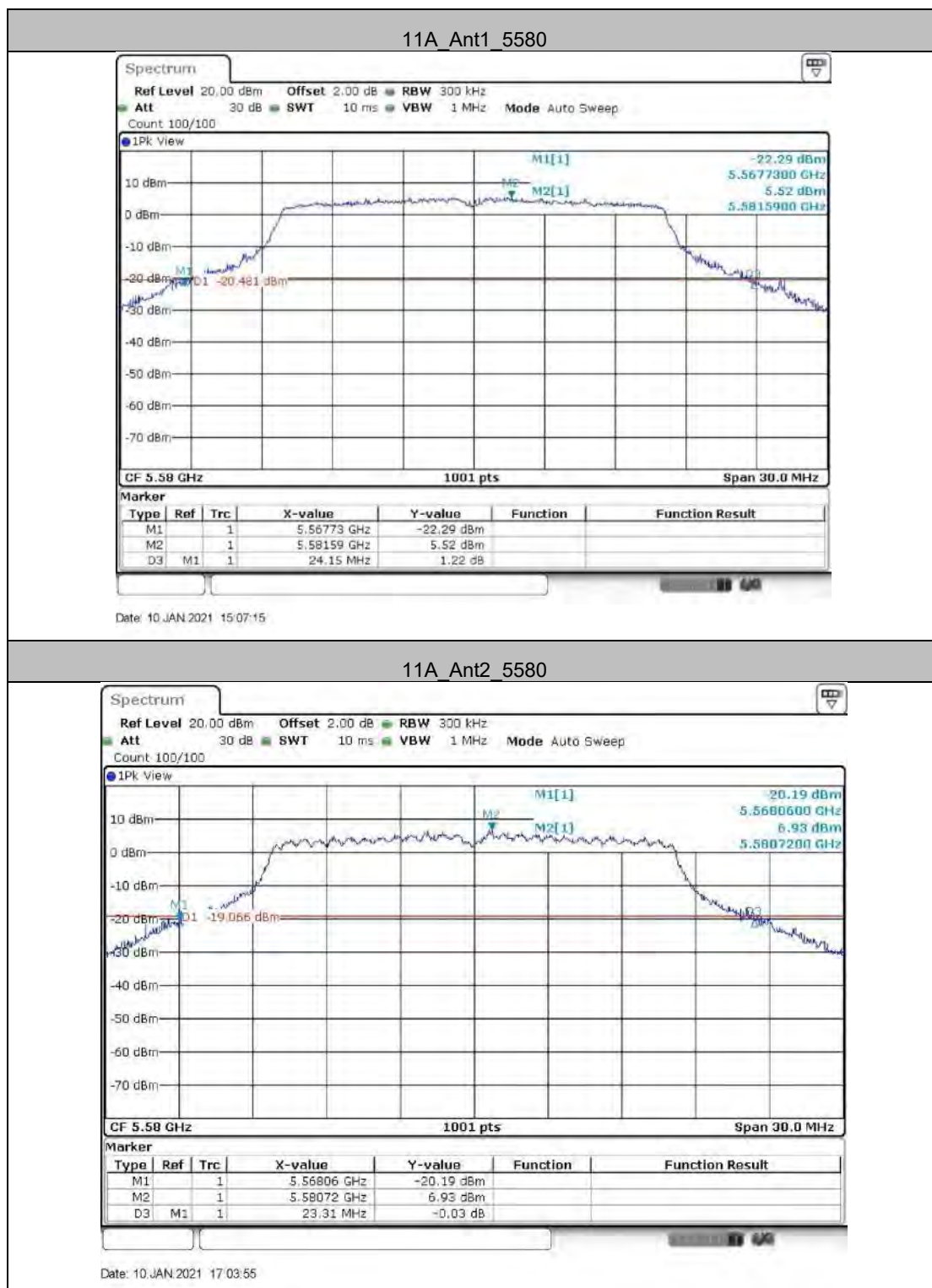


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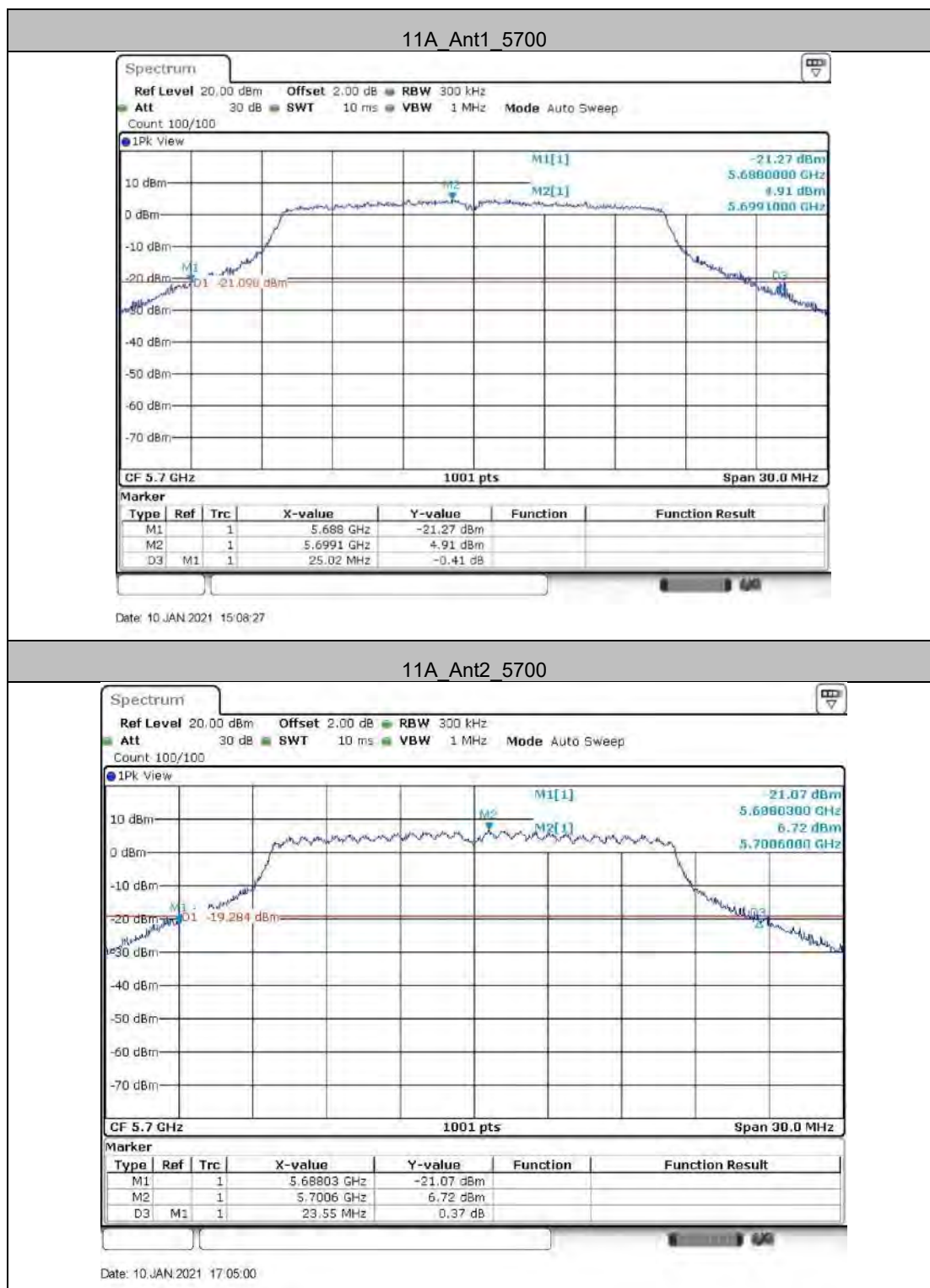




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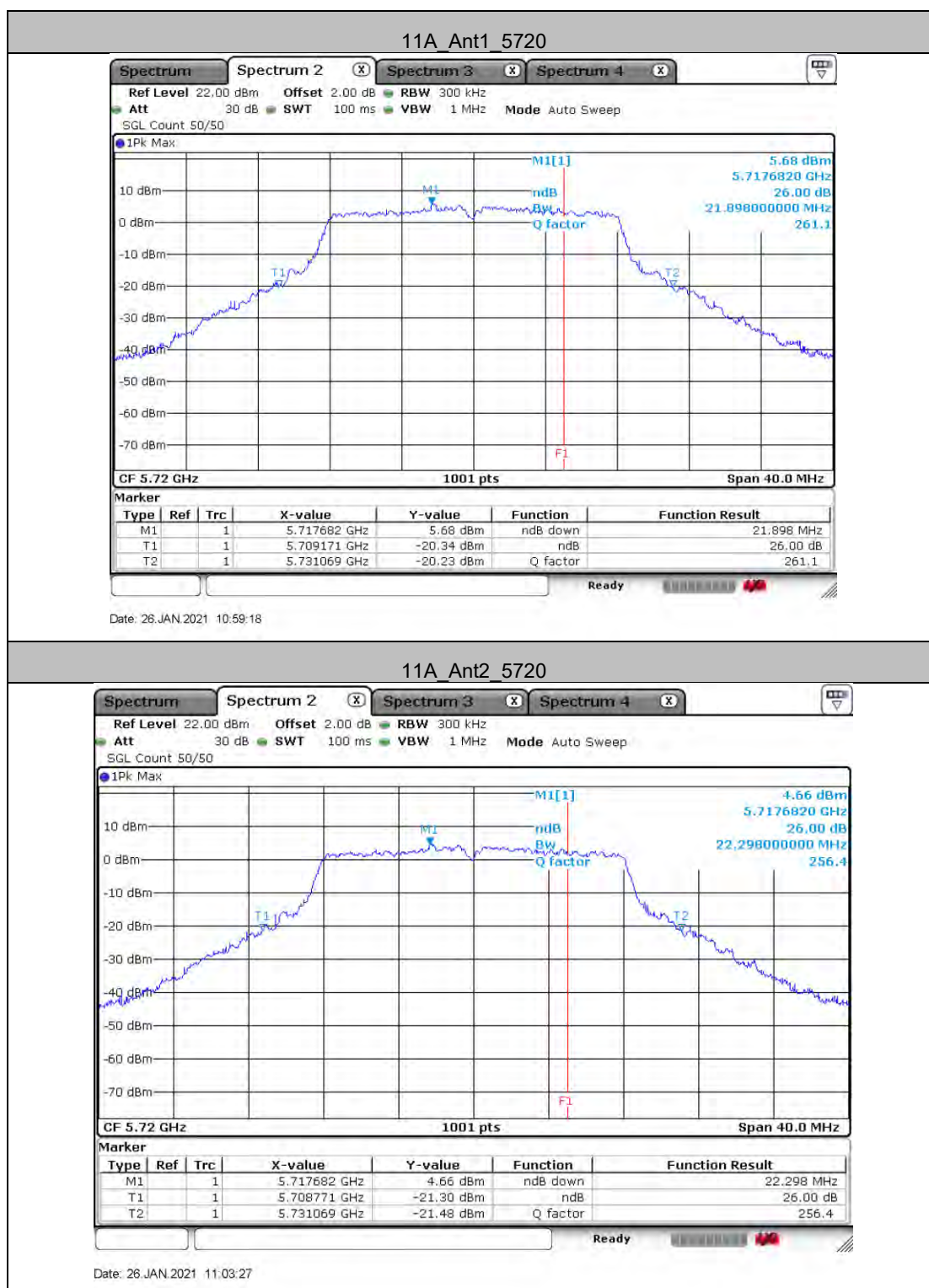
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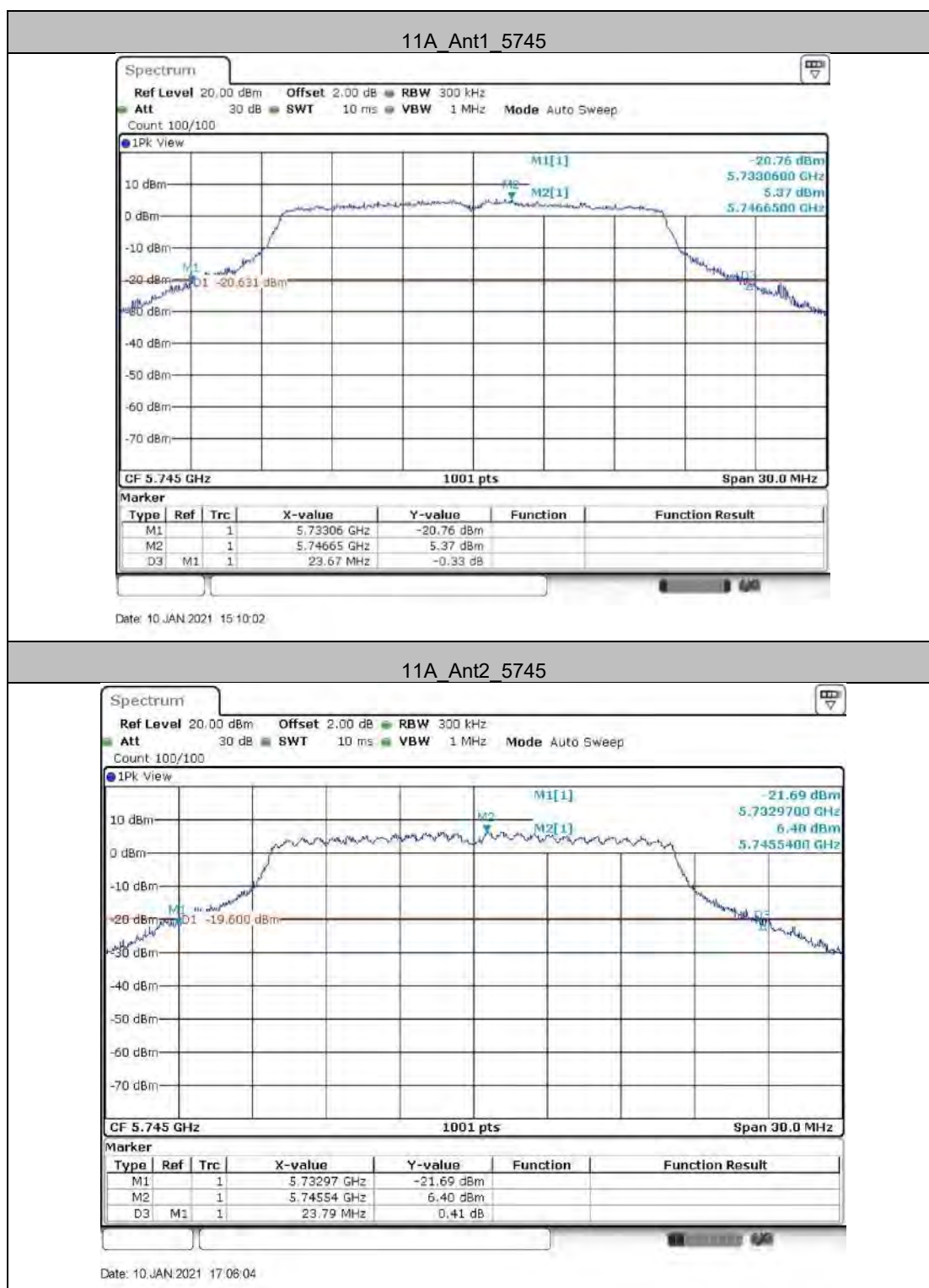
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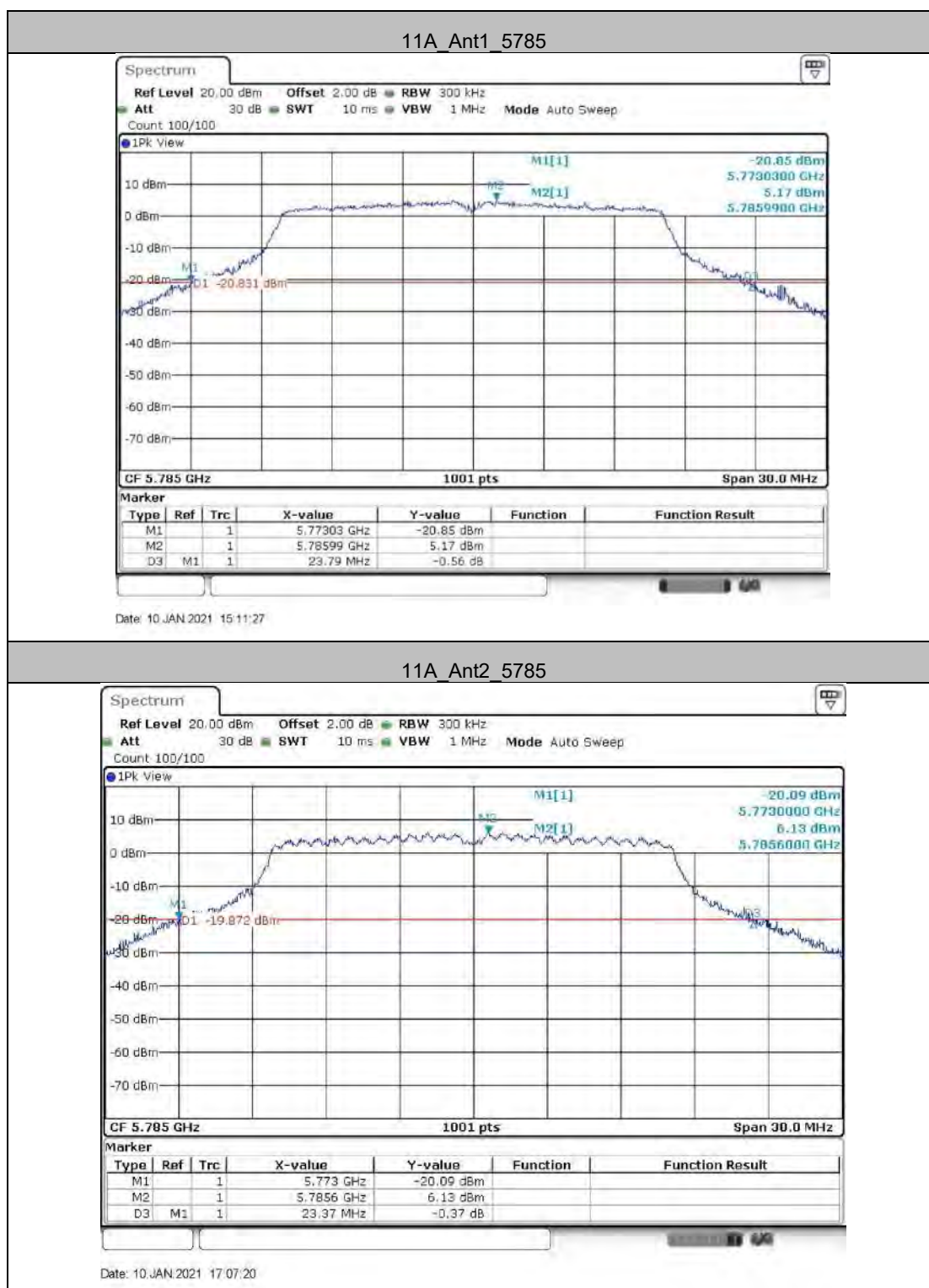
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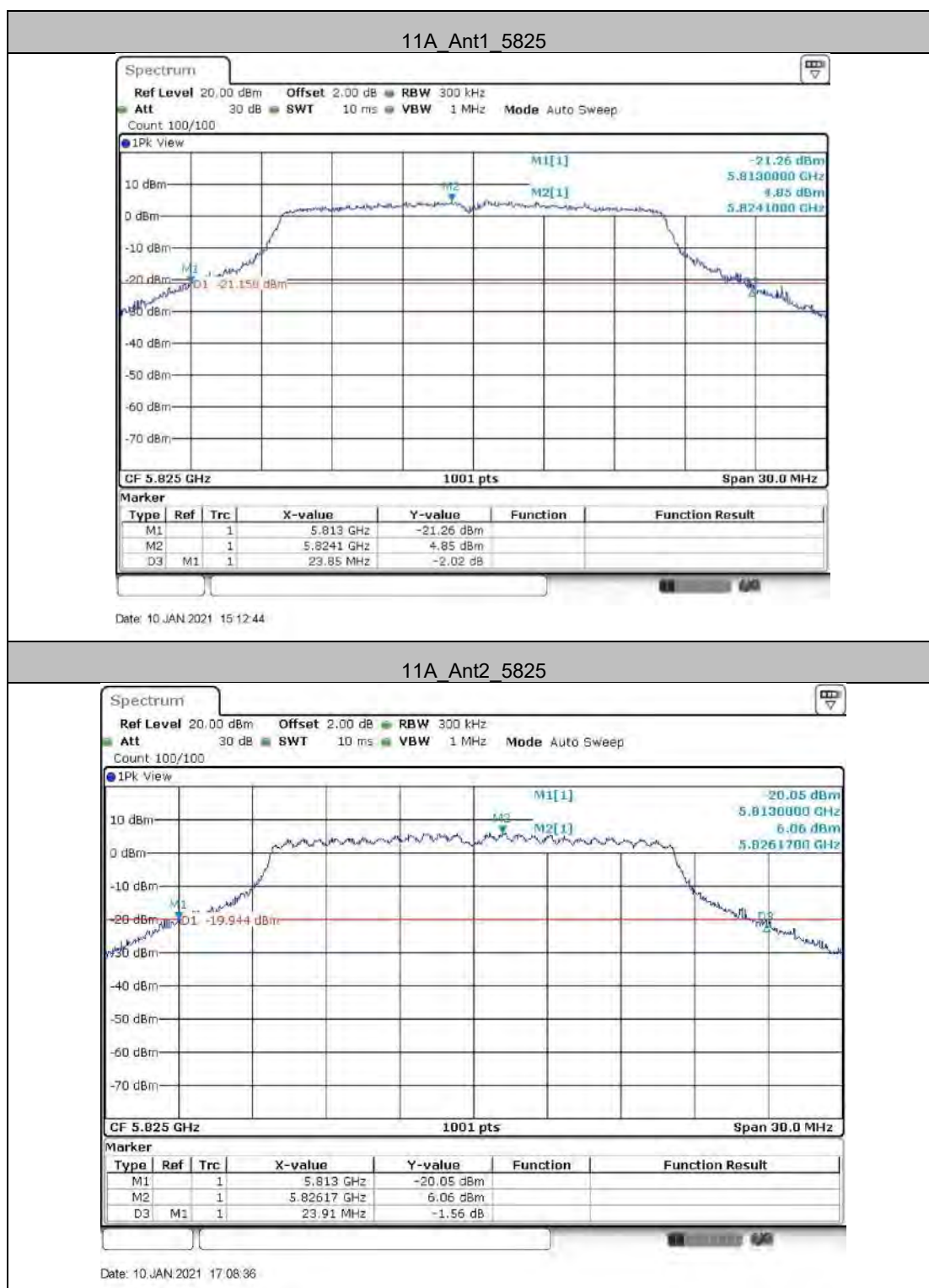
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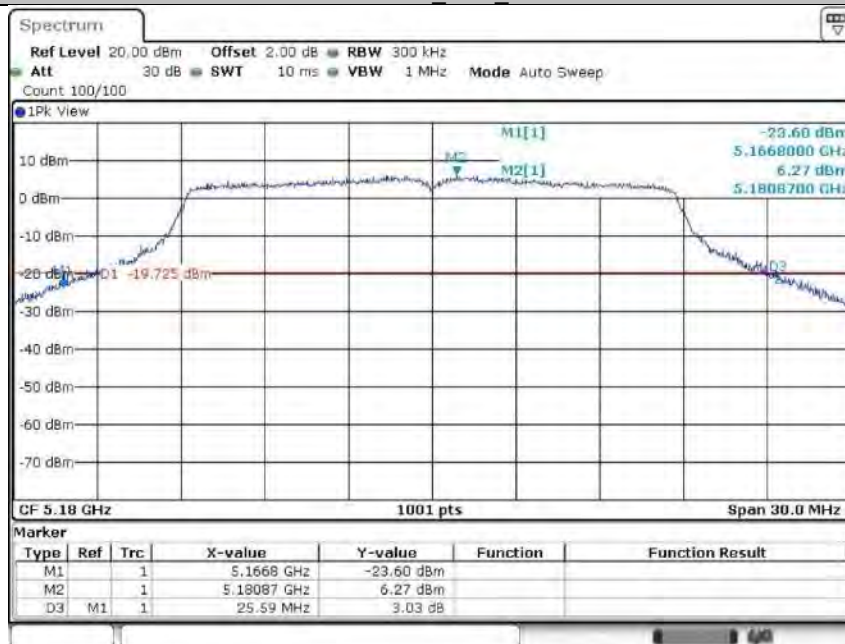
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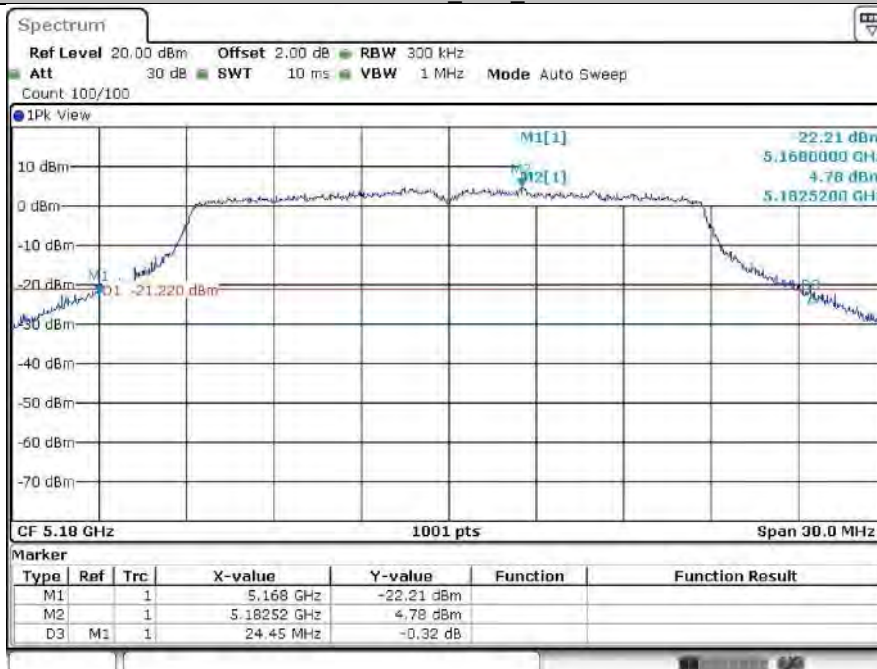


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