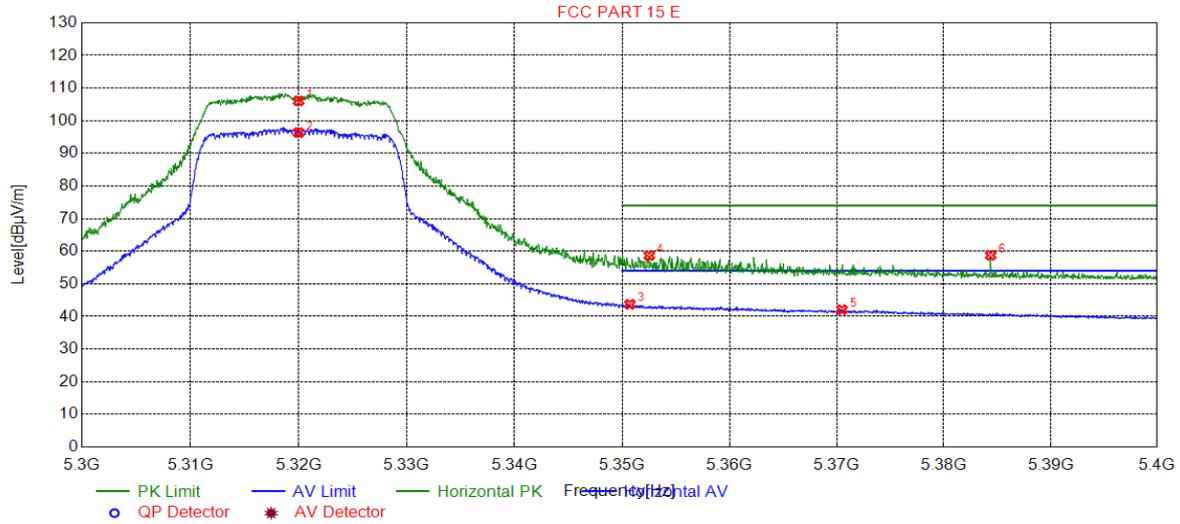


4.10.1.55 802.11AC20_Channel 64

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.000	106.08	0.00	-106.08	124	219	Horizontal
2	5320.000	96.33	0.00	-96.33	206	219	Horizontal
3	5350.725	43.73	54.00	10.27	133	219	Horizontal
4	5352.526	58.69	74.00	15.31	195	219	Horizontal
5	5370.485	42.10	54.00	11.90	198	219	Horizontal
6	5384.392	58.77	74.00	15.23	162	20	Horizontal

Final Data List

(This section is empty as it contains no data.)

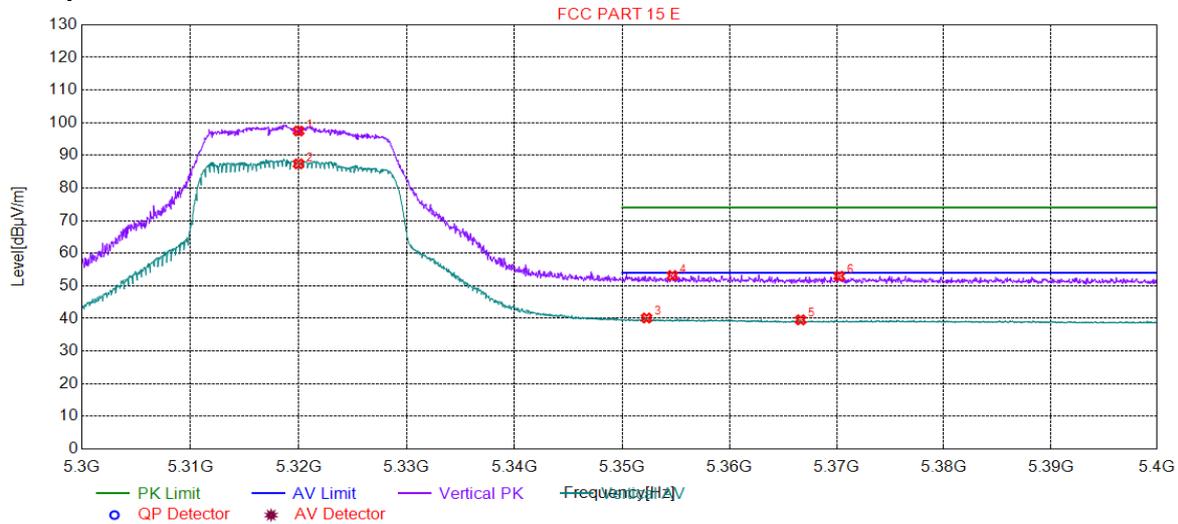


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4.10.1.56 802.11AC20_Channel 64

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5320.000	97.45	0.00	-97.45	219	248	Vertical
2	5320.000	87.39	0.00	-87.39	292	248	Vertical
3	5352.276	40.15	54.00	13.85	262	248	Vertical
4	5354.677	53.16	74.00	20.84	229	116	Vertical
5	5366.633	39.59	54.00	14.41	297	116	Vertical
6	5370.235	52.97	74.00	21.03	292	253	Vertical

Final Data List

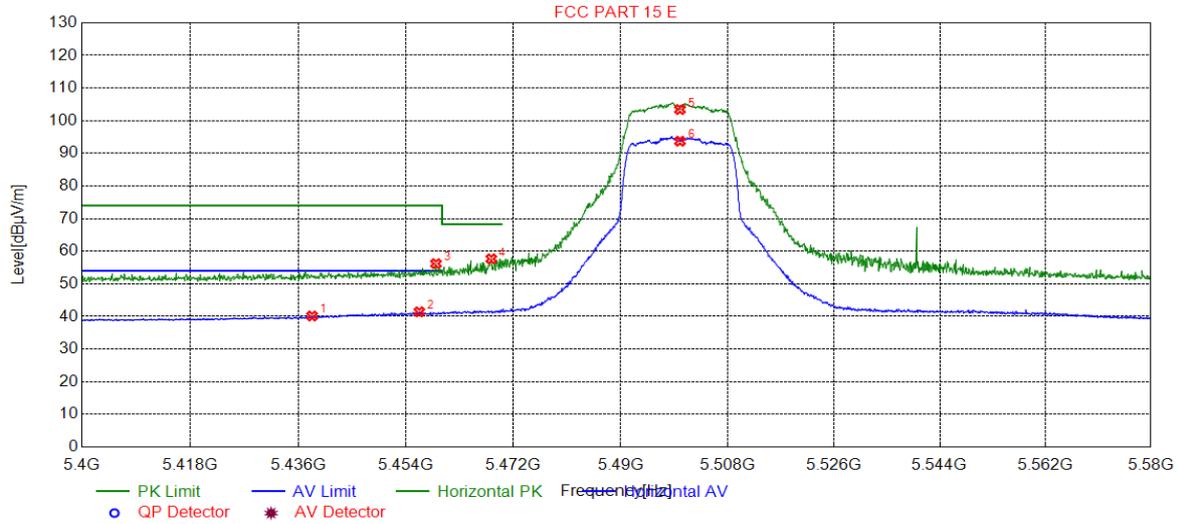


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4.10.1.57 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5438.269	40.15	54.00	13.85	132	232	Horizontal
2	5456.188	41.44	54.00	12.56	103	232	Horizontal
3	5458.979	56.21	74.00	17.79	187	232	Horizontal
4	5468.254	57.67	68.30	10.63	122	232	Horizontal
5	5500.000	103.43	0.00	-103.43	126	326	Horizontal
6	5500.000	93.72	0.00	-93.72	110	232	Horizontal

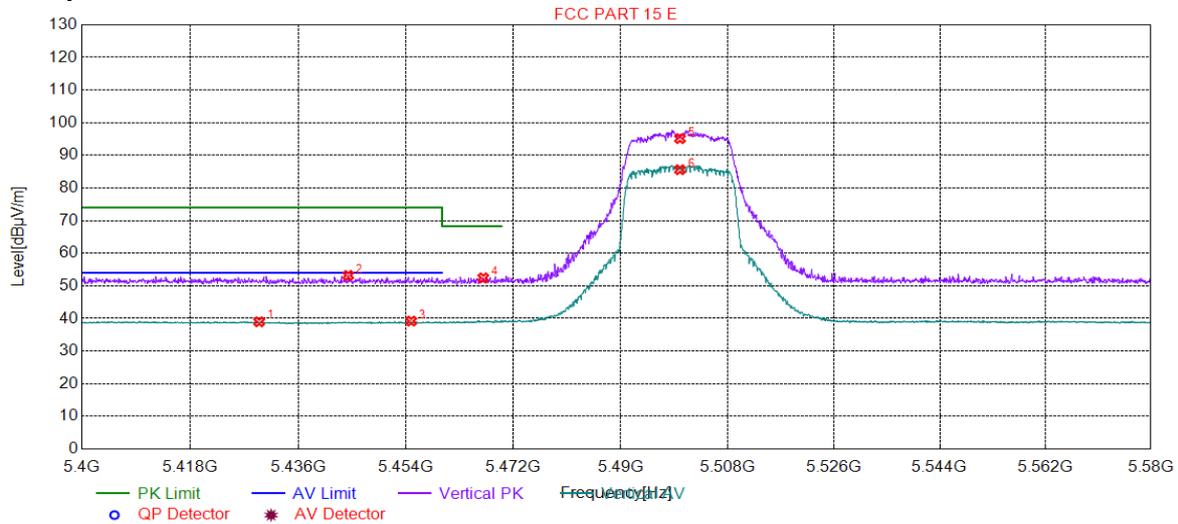
Final Data List



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4.10.1.58 802.11AC20_Channel 100

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5429.444	39.00	54.00	15.00	200	198	Vertical
2	5444.302	53.21	74.00	20.79	257	288	Vertical
3	5454.837	39.22	54.00	14.78	228	140	Vertical
4	5466.903	52.45	68.30	15.85	211	132	Vertical
5	5500.000	95.13	0.00	-95.13	205	143	Vertical
6	5500.000	85.60	0.00	-85.60	195	143	Vertical

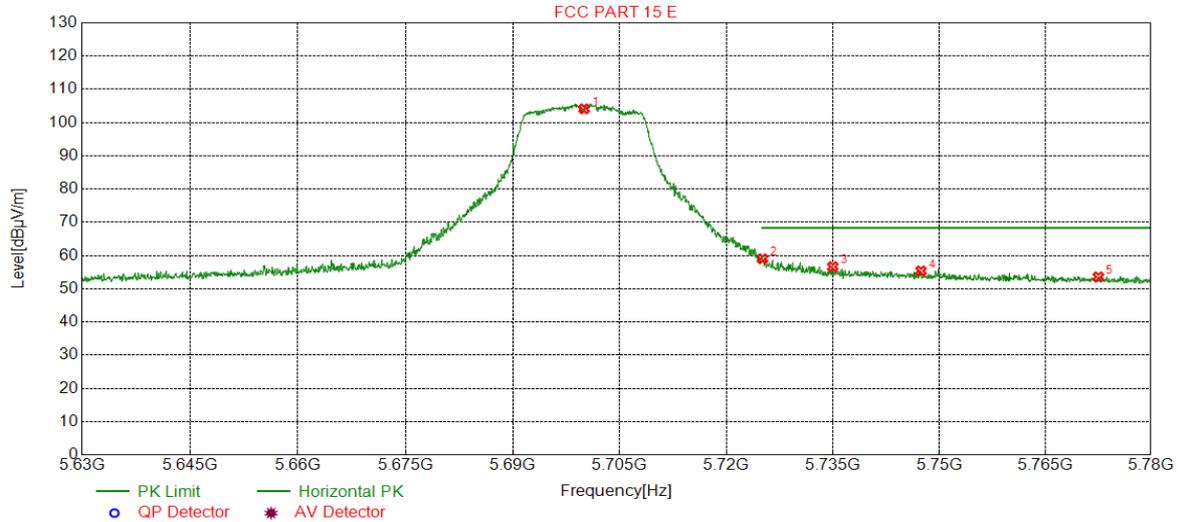
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4.10.1.59 802.11AC20_Channel 140

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.000	104.12	0.00	-104.12	169	220	Horizontal
2	5725.072	59.01	68.30	9.29	204	217	Horizontal
3	5734.977	56.64	68.30	11.66	217	220	Horizontal
4	5747.433	55.37	68.30	12.93	121	226	Horizontal
5	5772.571	53.56	68.30	14.74	168	214	Horizontal

Final Data List

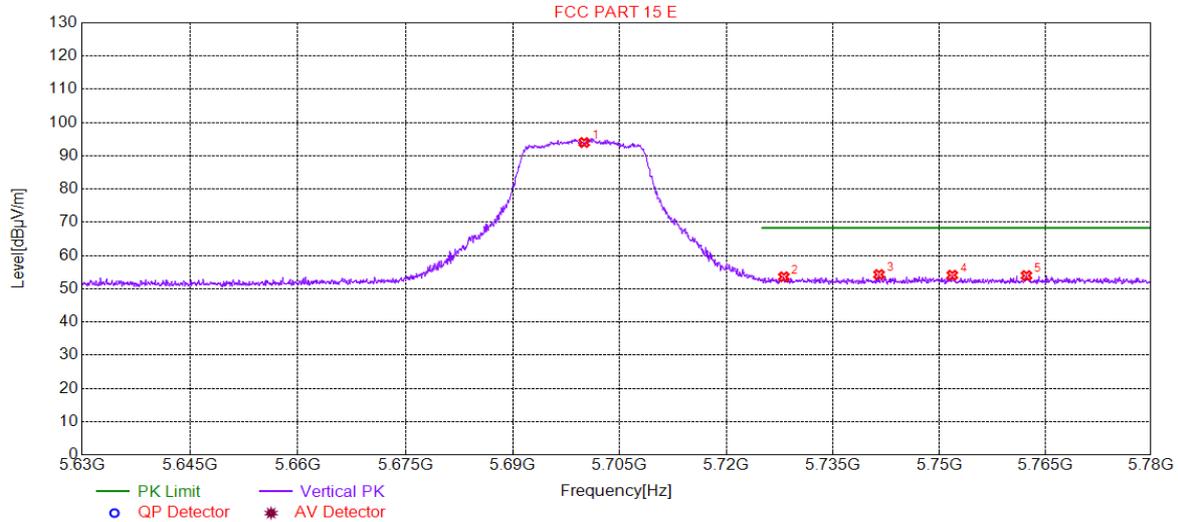


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4.10.1.60 802.11AC20_Channel 140

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5700.000	93.98	0.00	-93.98	271	207	Vertical
2	5728.074	53.59	68.30	14.71	208	207	Vertical
3	5741.505	54.27	68.30	14.03	232	181	Vertical
4	5751.860	54.08	68.30	14.22	159	115	Vertical
5	5762.366	53.97	68.30	14.33	251	20	Vertical

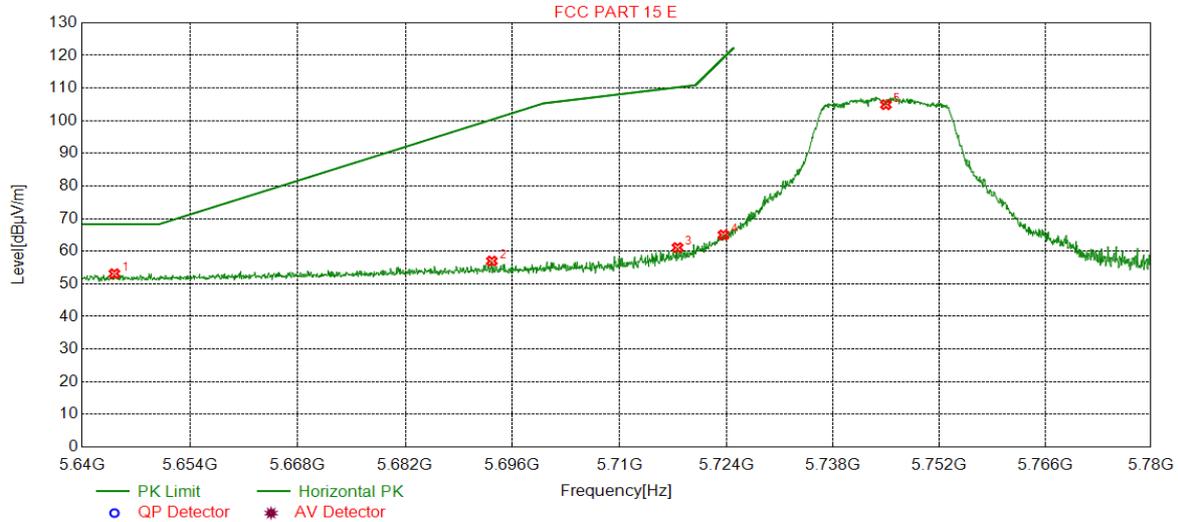
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4.10.1.61 802.11AC20_Channel 149

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.202	53.11	68.30	15.19	142	218	Horizontal
2	5693.296	57.00	100.34	43.34	172	221	Horizontal
3	5717.598	61.11	110.23	49.12	104	221	Horizontal
4	5723.621	65.00	119.16	54.16	141	221	Horizontal
5	5745.000	104.90	0.00	-104.90	205	221	Horizontal

Final Data List

(This area is intentionally left blank for the final data list.)



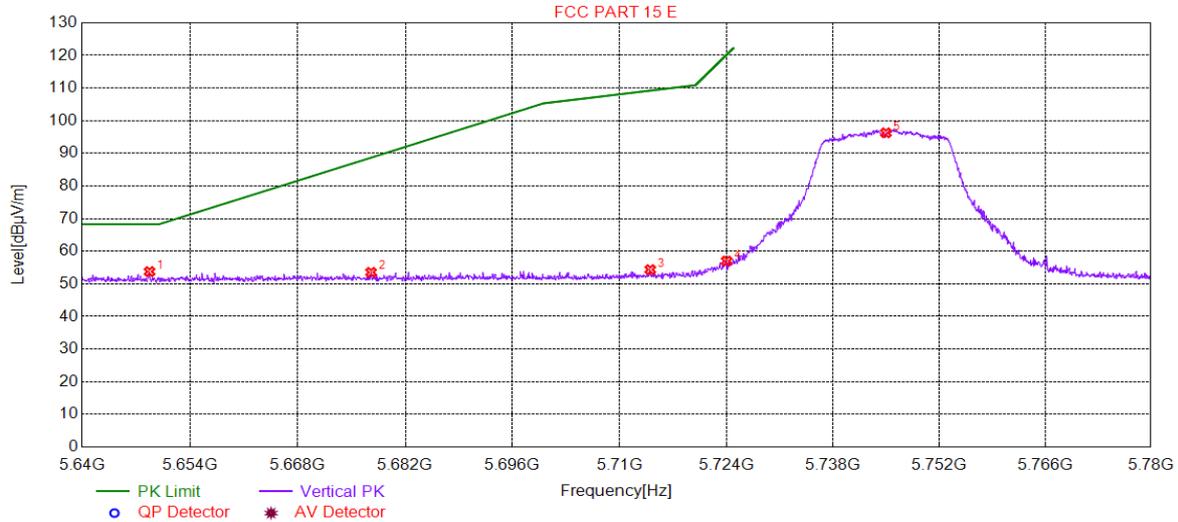
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4.10.1.62 802.11AC20_Channel 149

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5648.754	53.76	68.30	14.54	240	186	Vertical
2	5677.538	53.54	88.68	35.14	187	201	Vertical
3	5714.027	54.37	109.23	54.86	196	38	Vertical
4	5724.042	57.01	120.12	63.11	204	28	Vertical
5	5745.000	96.29	0.00	-96.29	296	201	Vertical

Final Data List

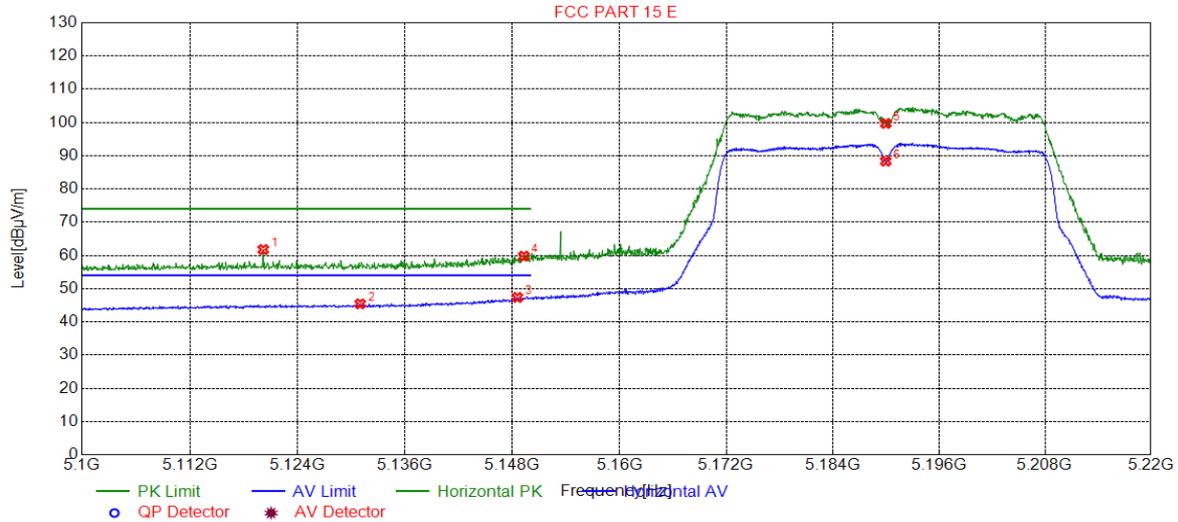


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4.10.1.63 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5120.170	61.78	74.00	12.22	233	310	Horizontal
2	5130.975	45.44	54.00	8.56	174	223	Horizontal
3	5148.564	47.37	54.00	6.63	170	223	Horizontal
4	5149.284	59.80	74.00	14.20	182	219	Horizontal
5	5190.000	99.71	0.00	-99.71	168	223	Horizontal
6	5190.000	88.35	0.00	-88.35	173	219	Horizontal

Final Data List

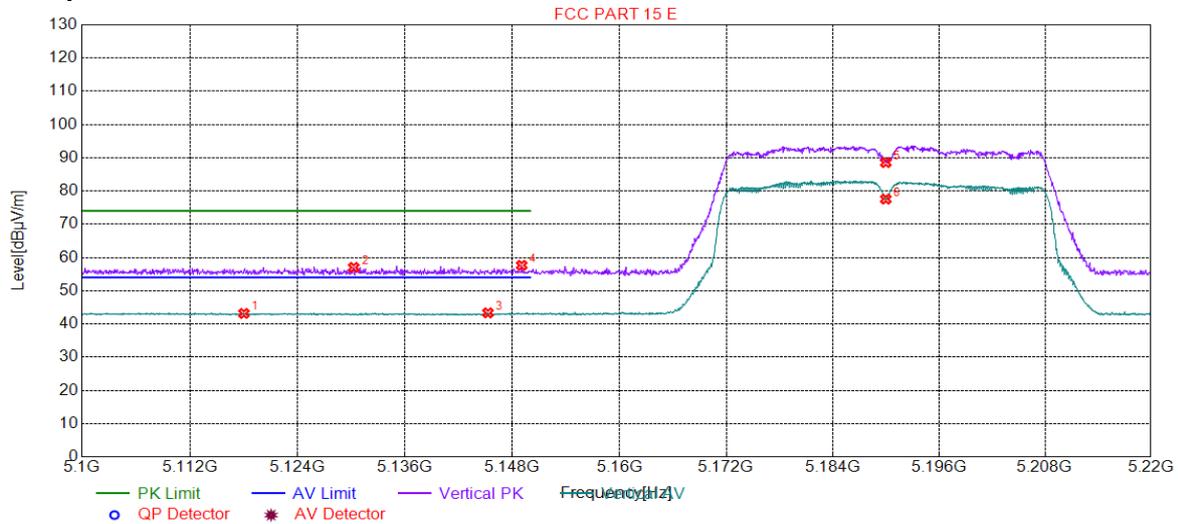


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4.10.1.64 802.11AC40_Channel 38

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5118.009	43.18	54.00	10.82	172	141	Vertical
2	5130.255	57.03	74.00	16.97	206	346	Vertical
3	5145.262	43.34	54.00	10.66	299	156	Vertical
4	5149.044	57.65	74.00	16.35	265	168	Vertical
5	5190.000	88.55	0.00	-88.55	276	249	Vertical
6	5190.000	77.57	0.00	-77.57	190	245	Vertical

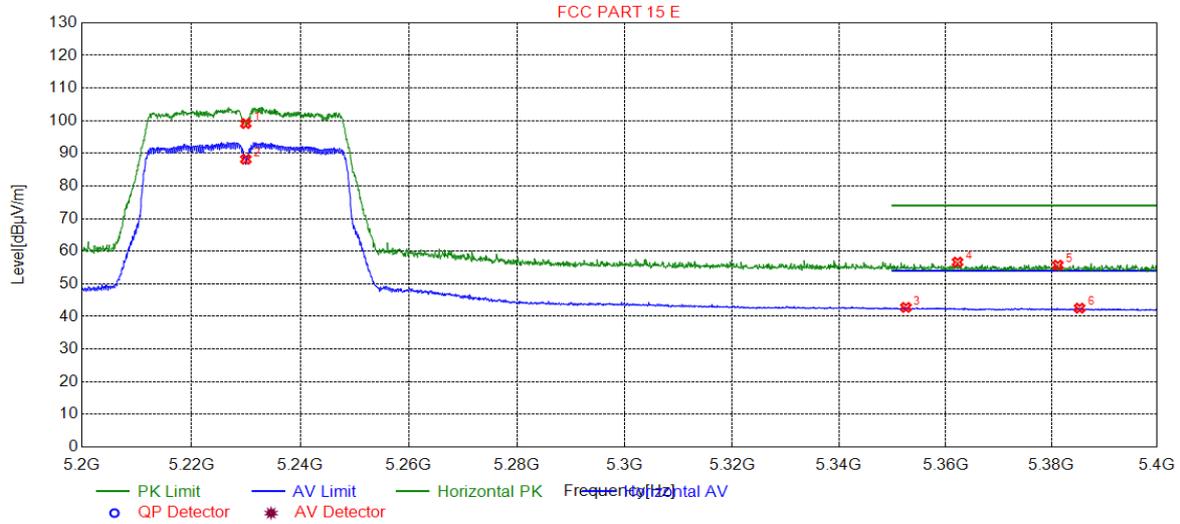
Final Data List



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4.10.1.65 802.11AC40_Channel 46

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.000	99.13	0.00	-99.13	158	226	Horizontal
2	5230.000	88.19	0.00	-88.19	221	221	Horizontal
3	5352.576	42.79	54.00	11.21	167	255	Horizontal
4	5362.281	56.68	74.00	17.32	109	221	Horizontal
5	5381.190	55.75	74.00	18.25	100	255	Horizontal
6	5385.292	42.56	54.00	11.44	238	236	Horizontal

Final Data List

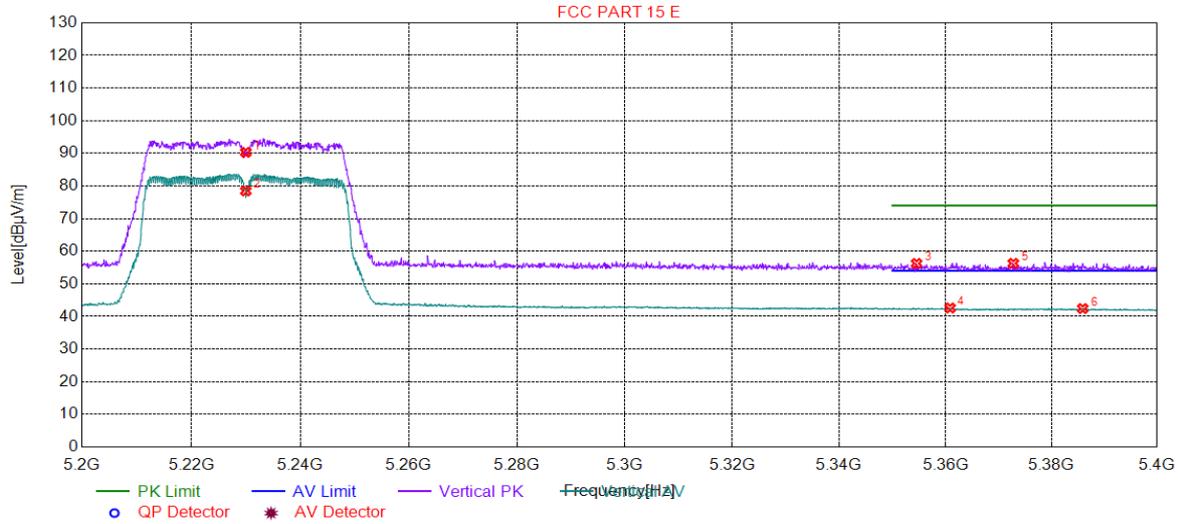


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4.10.1.66 802.11AC40_Channel 46

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5230.000	90.31	0.00	-90.31	249	257	Vertical
2	5230.000	78.49	0.00	-78.49	205	261	Vertical
3	5354.577	56.26	74.00	17.74	257	227	Vertical
4	5360.880	42.62	54.00	11.38	197	320	Vertical
5	5372.786	56.30	74.00	17.70	250	305	Vertical
6	5385.892	42.44	54.00	11.56	293	21	Vertical

Final Data List

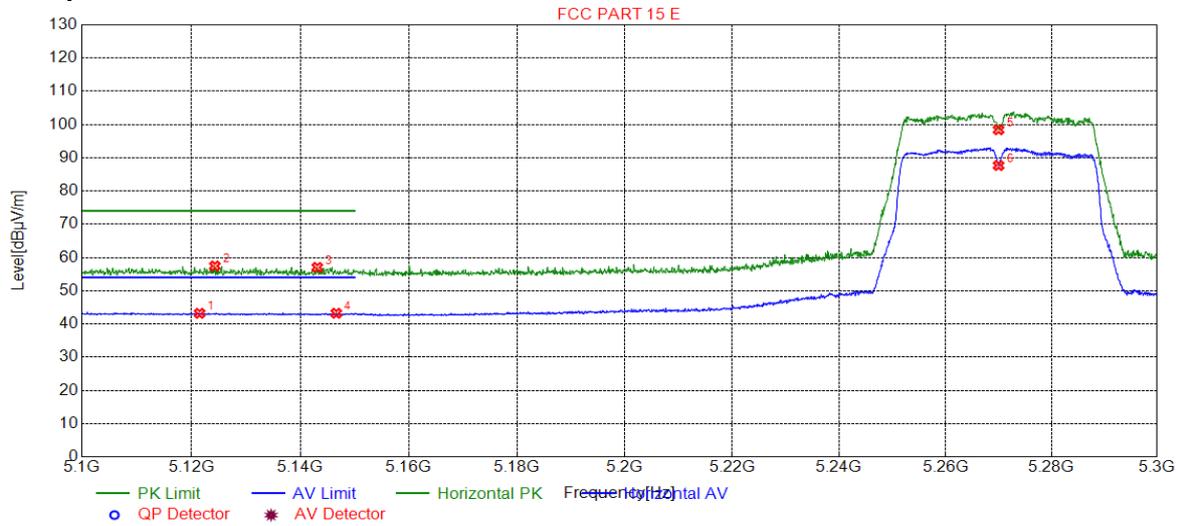


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4.10.1.67 802.11AC40_Channel 54

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5121.510	43.21	54.00	10.79	101	274	Horizontal
2	5124.312	57.46	74.00	16.54	198	347	Horizontal
3	5143.121	57.04	74.00	16.96	239	104	Horizontal
4	5146.623	43.23	54.00	10.77	140	332	Horizontal
5	5270.000	98.42	0.00	-98.42	231	225	Horizontal
6	5270.000	87.67	0.00	-87.67	243	220	Horizontal

Final Data List

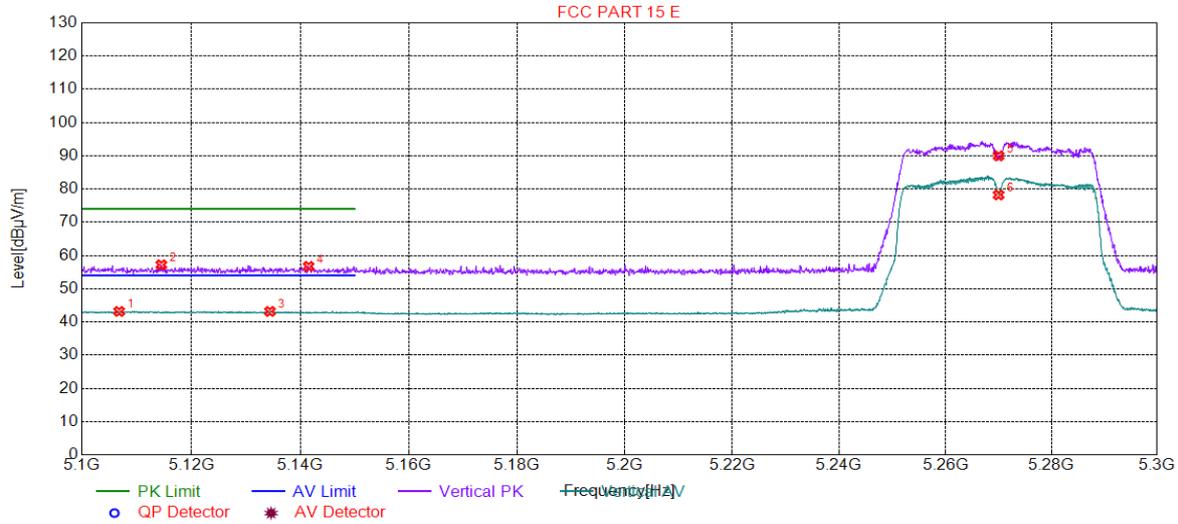


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4.10.1.68 802.11AC40_Channel 54

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5106.803	43.17	54.00	10.83	163	159	Vertical
2	5114.507	57.21	74.00	16.79	284	130	Vertical
3	5134.417	43.18	54.00	10.82	279	261	Vertical
4	5141.520	56.74	74.00	17.26	188	202	Vertical
5	5270.000	89.98	0.00	-89.98	264	252	Vertical
6	5270.000	78.22	0.00	-78.22	219	252	Vertical

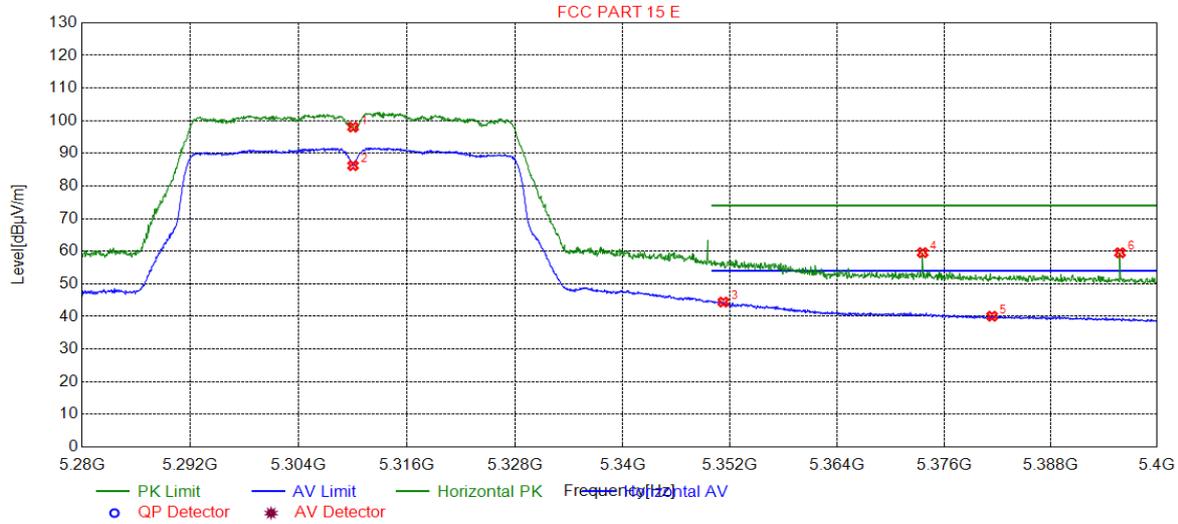
Final Data List



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4.10.1.69 802.11AC40_Channel 62

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	98.04	0.00	-98.04	129	238	Horizontal
2	5310.000	86.24	0.00	-86.24	101	233	Horizontal
3	5351.255	44.43	54.00	9.57	120	200	Horizontal
4	5373.586	59.57	74.00	14.43	195	312	Horizontal
5	5381.390	40.09	54.00	13.91	232	224	Horizontal
6	5395.797	59.54	74.00	14.46	188	336	Horizontal

Final Data List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	98.04	0.00	-98.04	129	238	Horizontal
2	5310.000	86.24	0.00	-86.24	101	233	Horizontal
3	5351.255	44.43	54.00	9.57	120	200	Horizontal
4	5373.586	59.57	74.00	14.43	195	312	Horizontal
5	5381.390	40.09	54.00	13.91	232	224	Horizontal
6	5395.797	59.54	74.00	14.46	188	336	Horizontal

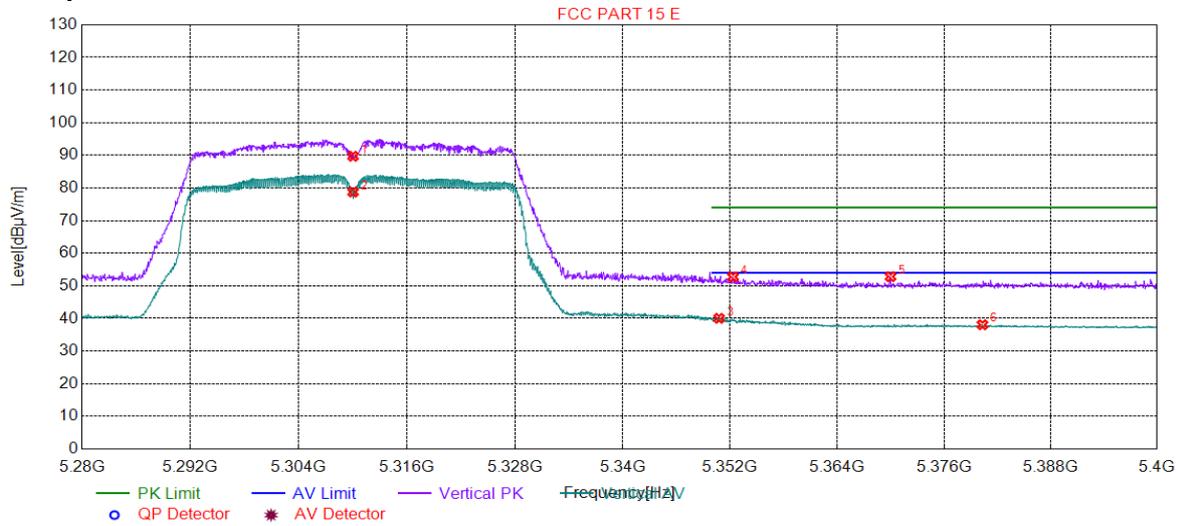


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4.10.1.70 802.11AC40_Channel 62

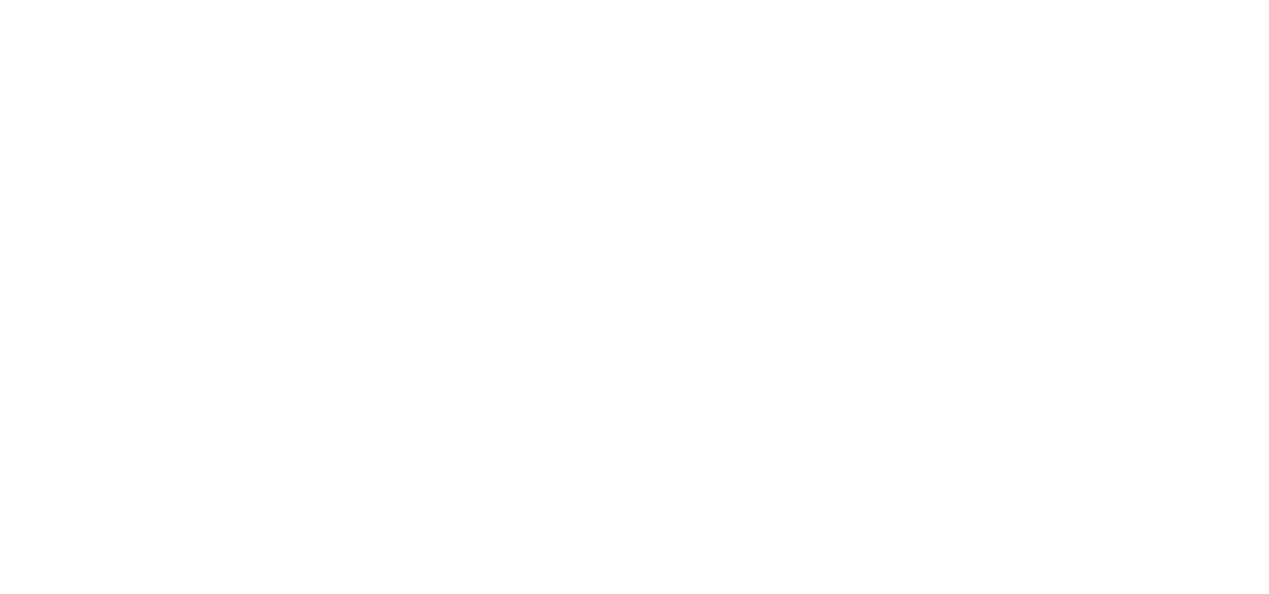
Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	89.72	0.00	-89.72	257	251	Vertical
2	5310.000	78.76	0.00	-78.76	163	251	Vertical
3	5350.775	40.06	54.00	13.94	164	251	Vertical
4	5352.336	52.75	74.00	21.25	275	246	Vertical
5	5369.985	52.83	74.00	21.17	258	256	Vertical
6	5380.310	38.10	54.00	15.90	280	208	Vertical

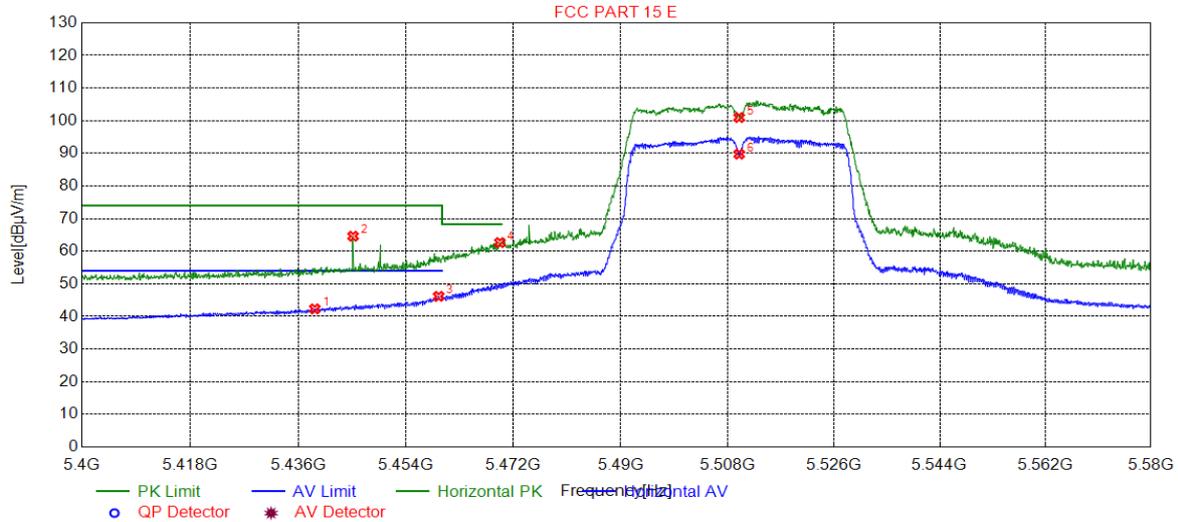
Final Data List



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4.10.1.71 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5438.719	42.34	54.00	11.66	193	231	Horizontal
2	5445.112	64.61	74.00	9.39	160	314	Horizontal
3	5459.429	46.19	54.00	7.81	182	231	Horizontal
4	5469.694	62.65	68.30	5.65	139	231	Horizontal
5	5510.000	100.98	0.00	-100.98	241	236	Horizontal
6	5510.000	89.76	0.00	-89.76	207	231	Horizontal

Final Data List

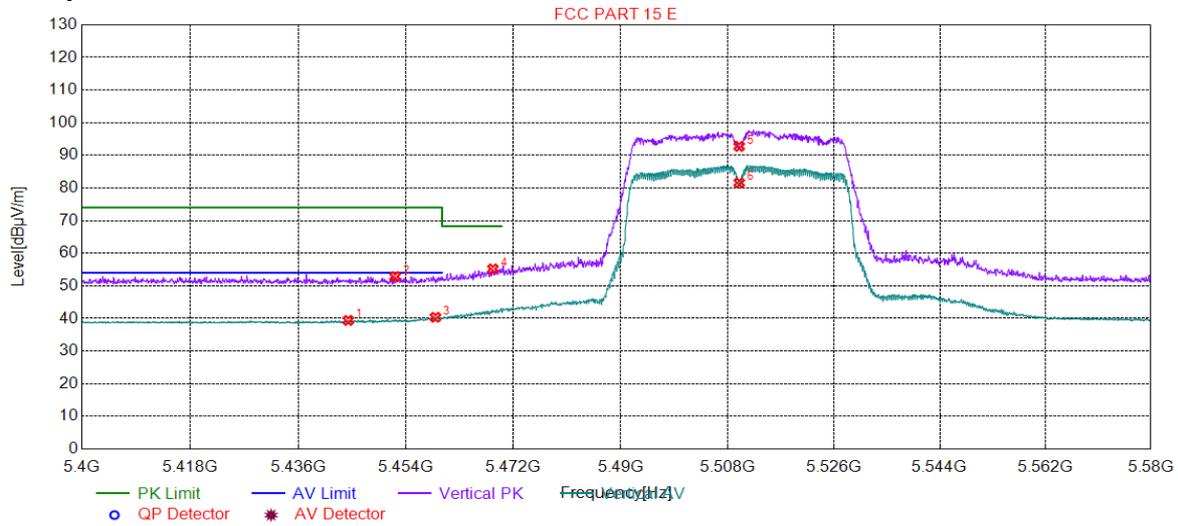


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4.10.1.72 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5444.302	39.42	54.00	14.58	162	257	Vertical
2	5452.136	52.85	74.00	21.15	292	139	Vertical
3	5458.889	40.38	54.00	13.62	167	144	Vertical
4	5468.524	55.21	68.30	13.09	223	144	Vertical
5	5510.000	92.75	0.00	-92.75	155	139	Vertical
6	5510.000	81.57	0.00	-81.57	292	144	Vertical

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5444.302	39.42	54.00	14.58	162	257	Vertical
2	5452.136	52.85	74.00	21.15	292	139	Vertical
3	5458.889	40.38	54.00	13.62	167	144	Vertical
4	5468.524	55.21	68.30	13.09	223	144	Vertical
5	5510.000	92.75	0.00	-92.75	155	139	Vertical
6	5510.000	81.57	0.00	-81.57	292	144	Vertical

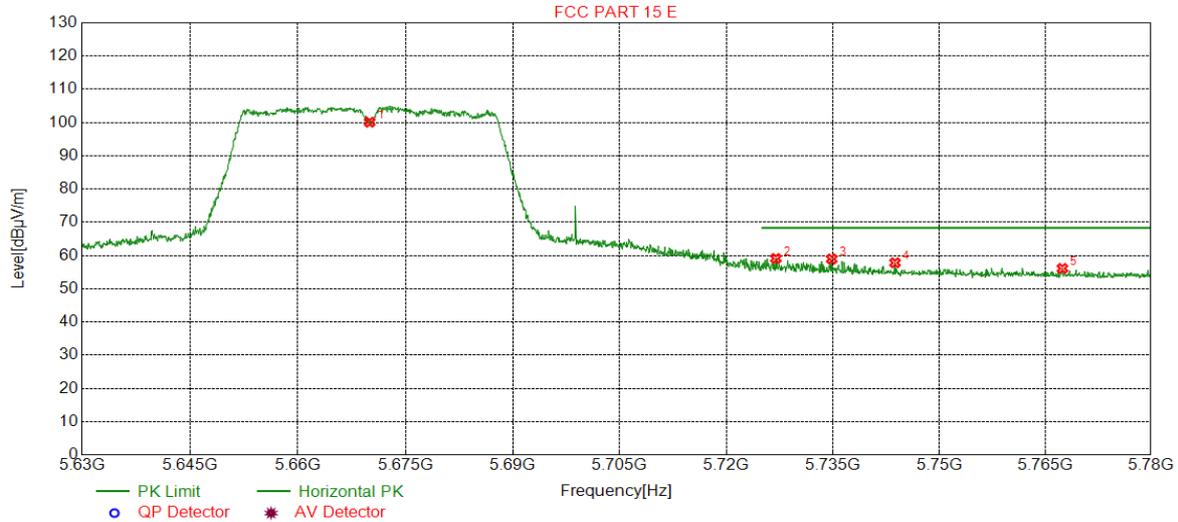


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4.10.1.73 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	100.10	0.00	-100.10	210	227	Horizontal
2	5726.948	59.12	68.30	9.18	160	230	Horizontal
3	5734.827	58.96	68.30	9.34	166	230	Horizontal
4	5743.756	57.82	68.30	10.48	219	227	Horizontal
5	5767.468	56.11	68.30	12.19	114	230	Horizontal

Final Data List

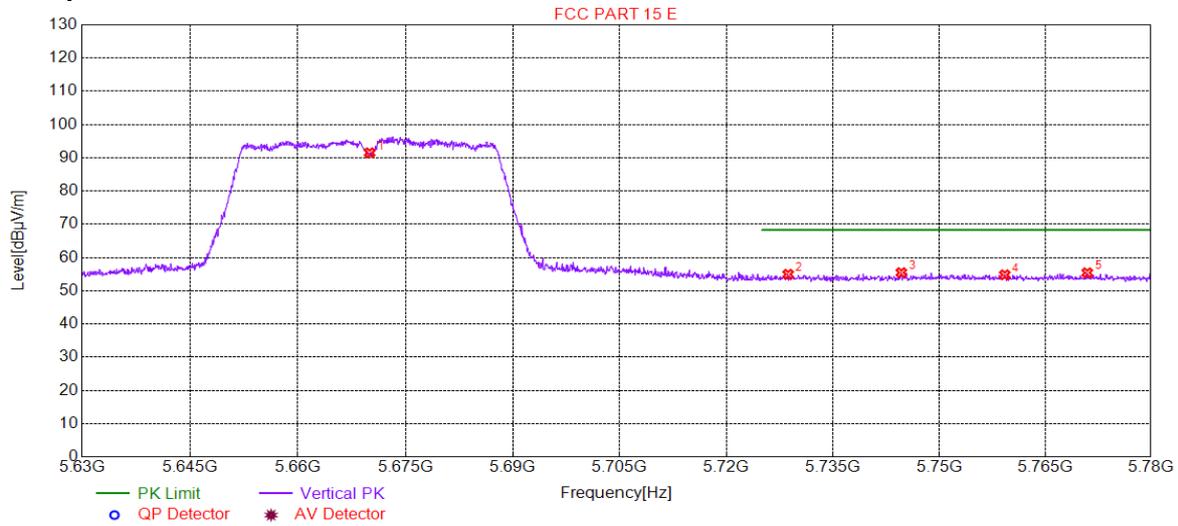


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4.10.1.74 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	91.52	0.00	-91.52	284	208	Vertical
2	5728.674	54.96	68.30	13.34	256	49	Vertical
3	5744.657	55.45	68.30	12.85	243	344	Vertical
4	5759.289	54.79	68.30	13.51	285	132	Vertical
5	5770.995	55.41	68.30	12.89	265	85	Vertical

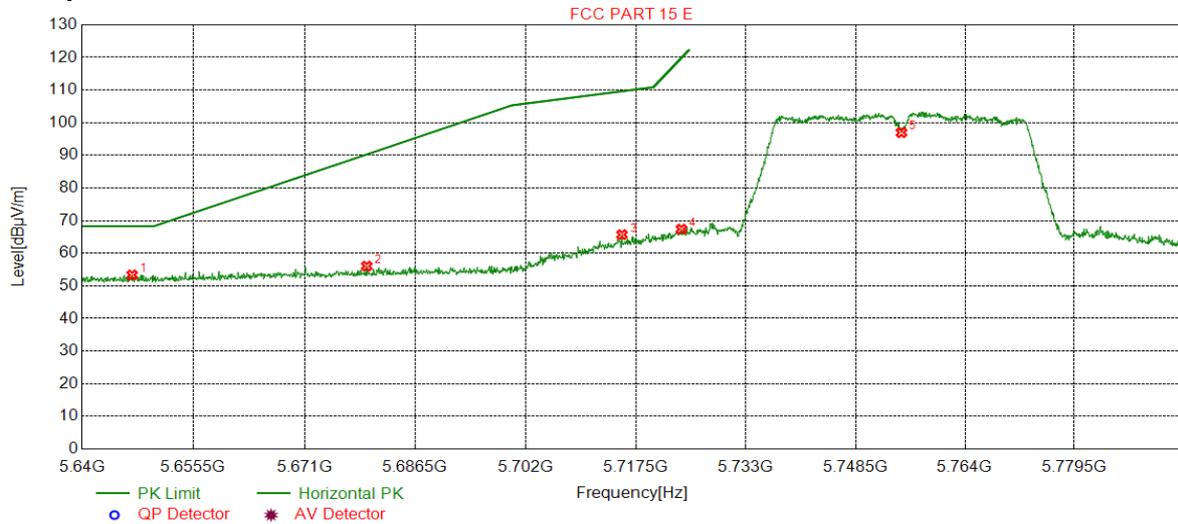
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4.10.1.75 802.11AC40_Channel 151

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5646.978	53.34	68.30	14.96	174	16	Horizontal
2	5679.699	56.06	90.28	34.22	100	310	Horizontal
3	5715.522	65.70	109.65	43.95	190	235	Horizontal
4	5723.896	67.39	119.79	52.40	238	220	Horizontal
5	5755.000	96.95	0.00	-96.95	210	227	Horizontal

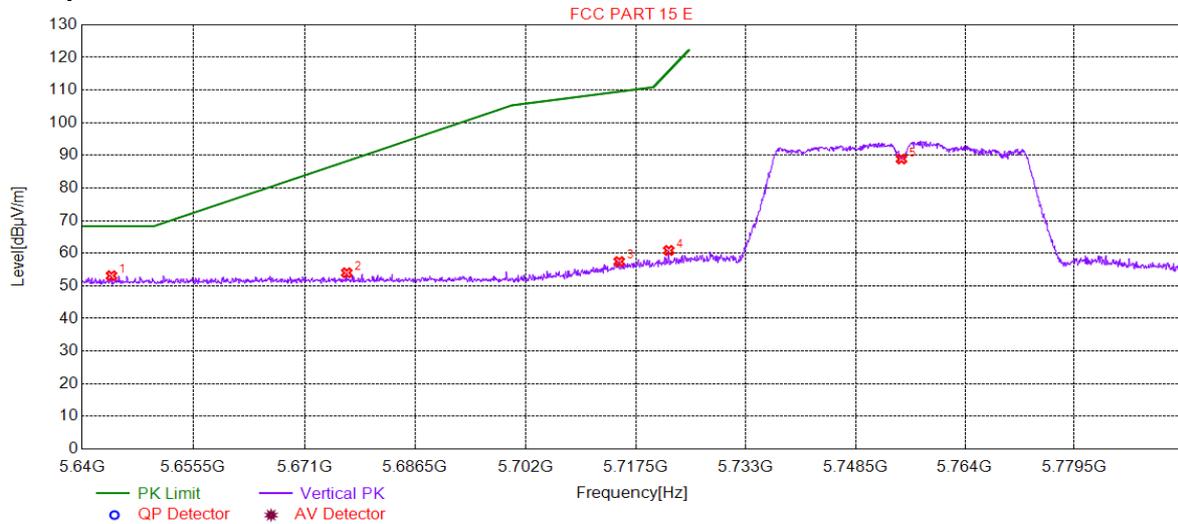
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4.10.1.76 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.109	53.11	68.30	15.19	277	169	Vertical
2	5676.908	54.01	88.21	34.20	157	208	Vertical
3	5715.135	57.46	109.54	52.08	221	187	Vertical
4	5722.113	60.85	115.72	54.87	177	4	Vertical
5	5755.000	88.89	0.00	-88.89	238	201	Vertical

Final Data List

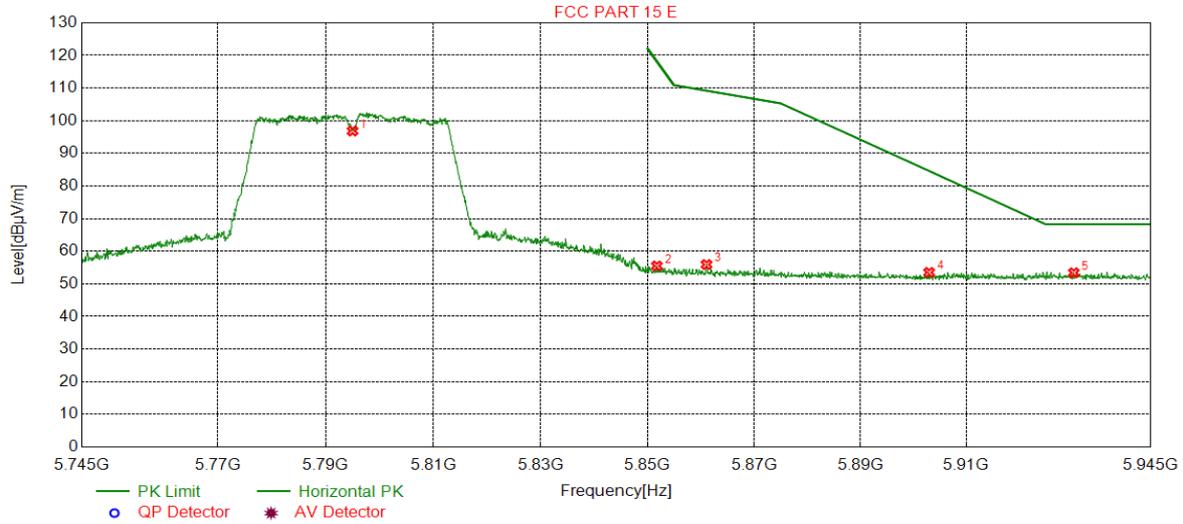
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4.10.1.77 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	96.85	0.00	-96.85	241	228	Horizontal
2	5851.753	55.52	118.30	62.78	119	231	Horizontal
3	5861.058	55.93	109.20	53.27	208	224	Horizontal
4	5902.979	53.51	84.60	31.09	138	228	Horizontal
5	5930.392	53.40	68.30	14.90	230	119	Horizontal

Final Data List

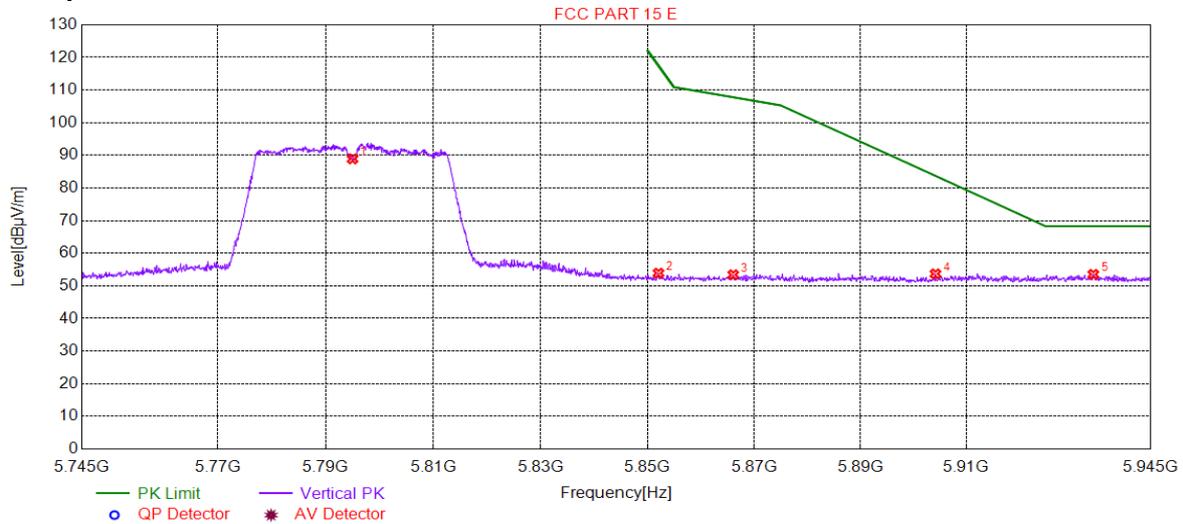


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4.10.1.78 802.11AC40_Channel 159

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	88.91	0.00	-88.91	288	206	Vertical
2	5852.053	53.90	117.62	63.72	274	59	Vertical
3	5866.060	53.41	107.80	54.39	159	326	Vertical
4	5904.179	53.68	83.71	30.03	150	170	Vertical
5	5934.094	53.53	68.30	14.77	294	127	Vertical

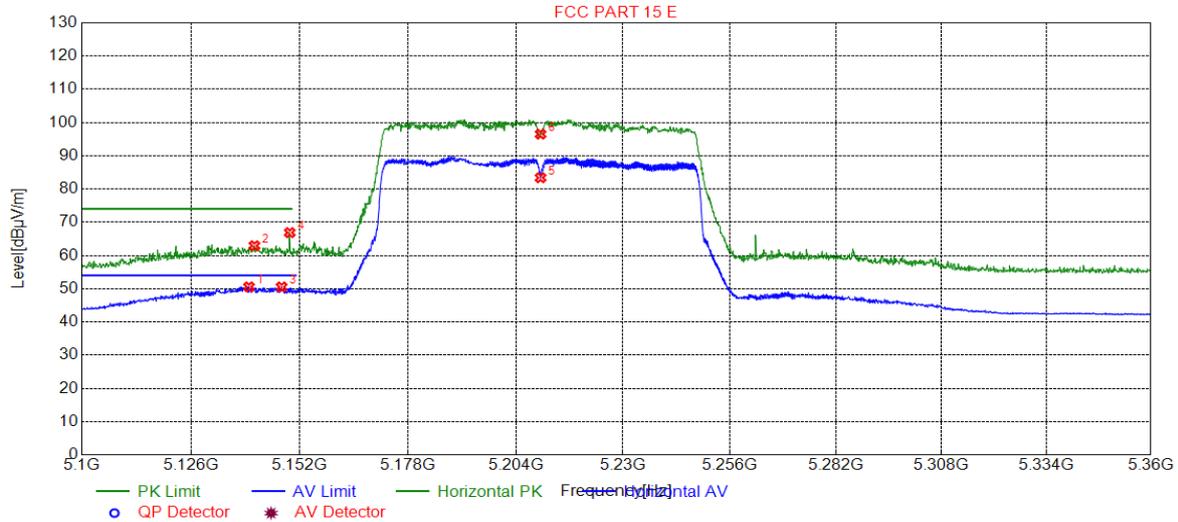
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4.10.1.79 802.11AC80_Channel 42

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5139.799	50.57	54.00	3.43	195	231	Horizontal
2	5141.100	62.94	74.00	11.06	196	231	Horizontal
3	5147.603	50.55	54.00	3.45	138	231	Horizontal
4	5149.554	66.88	74.00	7.12	213	302	Horizontal
5	5210.000	83.39	0.00	-83.39	127	226	Horizontal
6	5210.000	96.50	0.00	-96.50	121	235	Horizontal

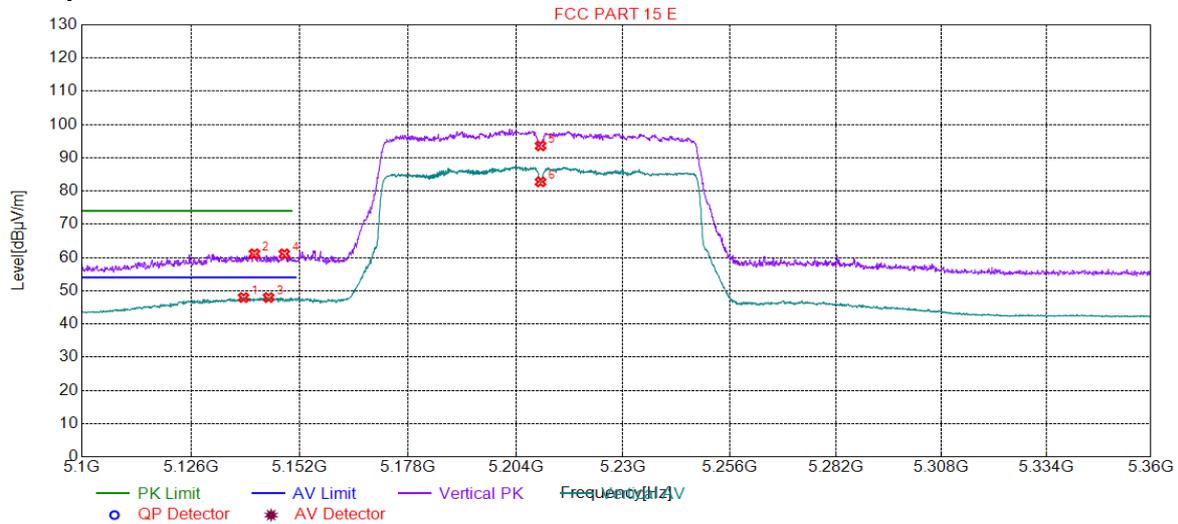
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4.10.1.80 802.11AC80_Channel 42

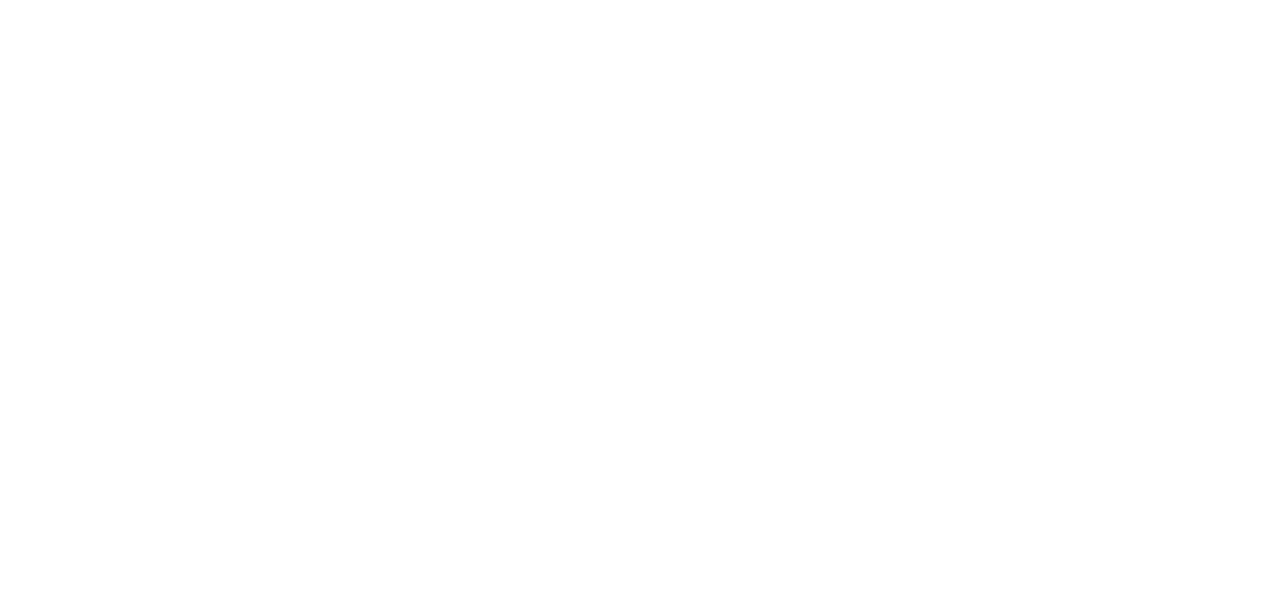
Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5138.499	47.96	54.00	6.04	285	168	Vertical
2	5141.100	61.12	74.00	12.88	180	164	Vertical
3	5144.482	47.96	54.00	6.04	173	168	Vertical
4	5148.254	61.10	74.00	12.90	259	174	Vertical
5	5210.000	93.59	0.00	-93.59	181	164	Vertical
6	5210.000	82.74	0.00	-82.74	157	168	Vertical

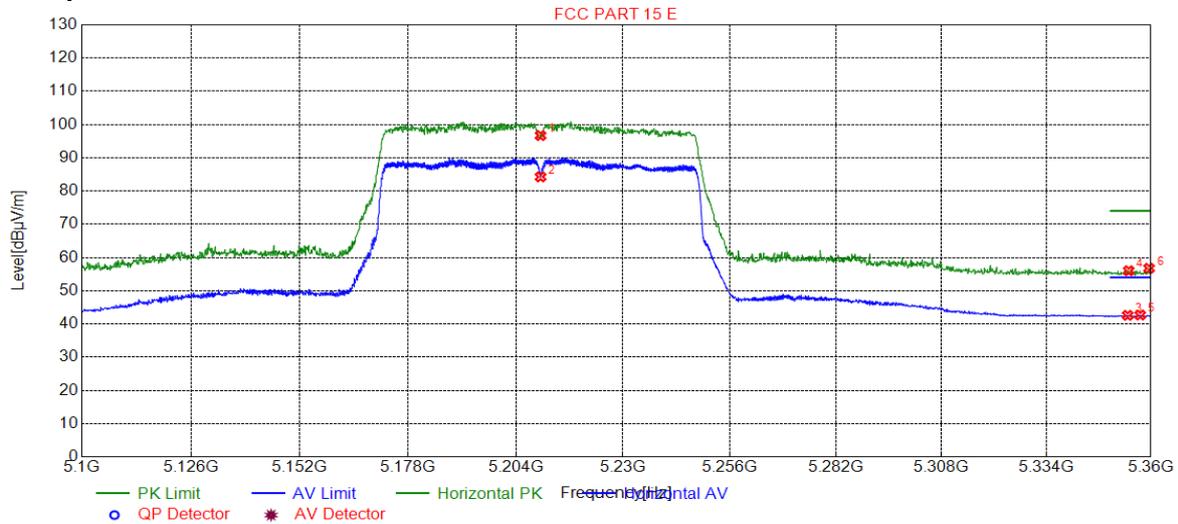
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4.10.1.81 802.11AC80_Channel 42

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	96.68	0.00	-96.68	229	231	Horizontal
2	5210.000	84.25	0.00	-84.25	223	222	Horizontal
3	5354.277	42.60	54.00	11.40	149	335	Horizontal
4	5354.537	56.02	74.00	17.98	123	260	Horizontal
5	5357.398	42.69	54.00	11.31	137	231	Horizontal
6	5359.609	56.76	74.00	17.24	193	0	Horizontal

Final Data List

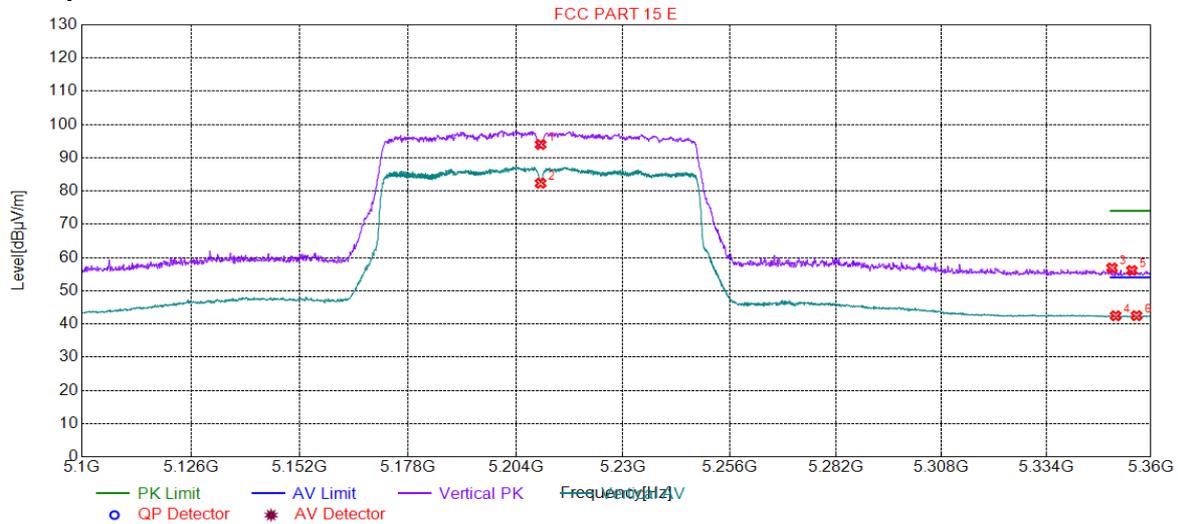
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	96.68	0.00	-96.68	229	231	Horizontal
2	5210.000	84.25	0.00	-84.25	223	222	Horizontal
3	5354.277	42.60	54.00	11.40	149	335	Horizontal
4	5354.537	56.02	74.00	17.98	123	260	Horizontal
5	5357.398	42.69	54.00	11.31	137	231	Horizontal
6	5359.609	56.76	74.00	17.24	193	0	Horizontal



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4.10.1.82 802.11AC80_Channel 42

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	93.99	0.00	-93.99	167	169	Vertical
2	5210.000	82.33	0.00	-82.33	240	164	Vertical
3	5350.375	56.87	74.00	17.13	261	40	Vertical
4	5351.285	42.47	54.00	11.53	244	144	Vertical
5	5355.317	56.12	74.00	17.88	190	19	Vertical
6	5356.488	42.50	54.00	11.50	255	15	Vertical

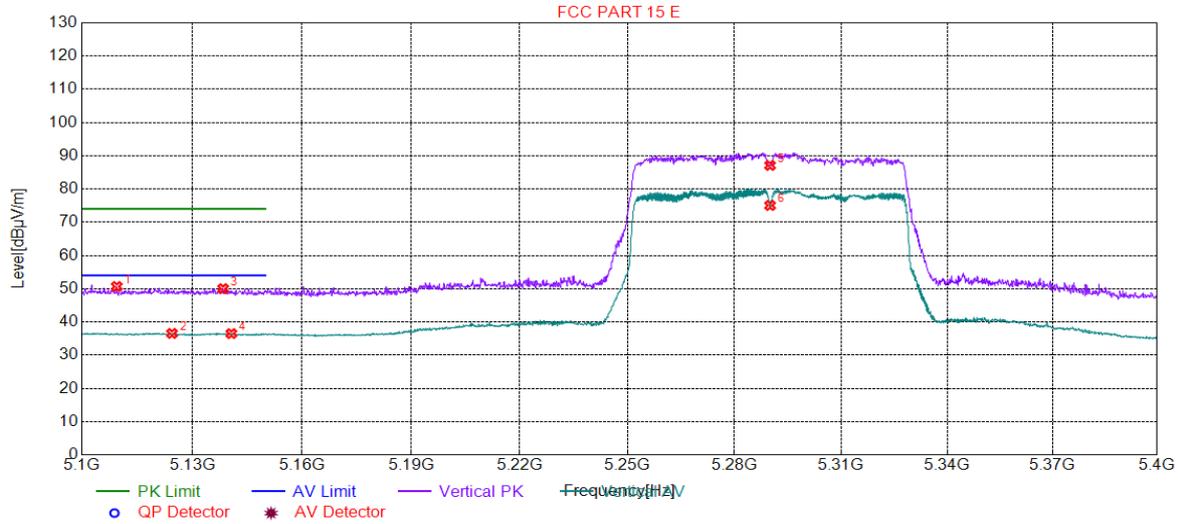
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4.10.1.84 802.11AC80_Channel 58

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5109.454	50.69	74.00	23.31	265	1	Vertical
2	5124.462	36.56	54.00	17.44	233	130	Vertical
3	5138.419	50.03	74.00	23.97	169	252	Vertical
4	5140.670	36.52	54.00	17.48	296	344	Vertical
5	5290.000	87.10	0.00	-87.10	242	145	Vertical
6	5290.000	75.04	0.00	-75.04	242	140	Vertical

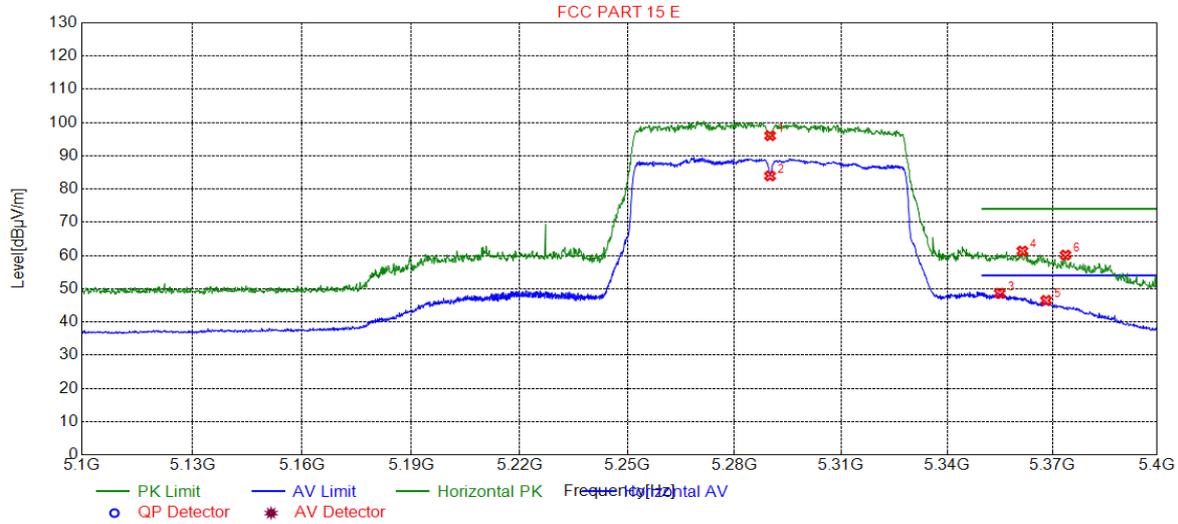
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4.10.1.85 802.11AC80_Channel 58

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	96.03	0.00	-96.03	198	234	Horizontal
2	5290.000	83.93	0.00	-83.93	247	230	Horizontal
3	5354.977	48.66	54.00	5.34	232	230	Horizontal
4	5361.430	61.35	74.00	12.65	122	234	Horizontal
5	5368.184	46.50	54.00	7.50	139	230	Horizontal
6	5373.736	60.14	74.00	13.86	188	234	Horizontal

Final Data List

Table content is identical to the Suspected List table above.

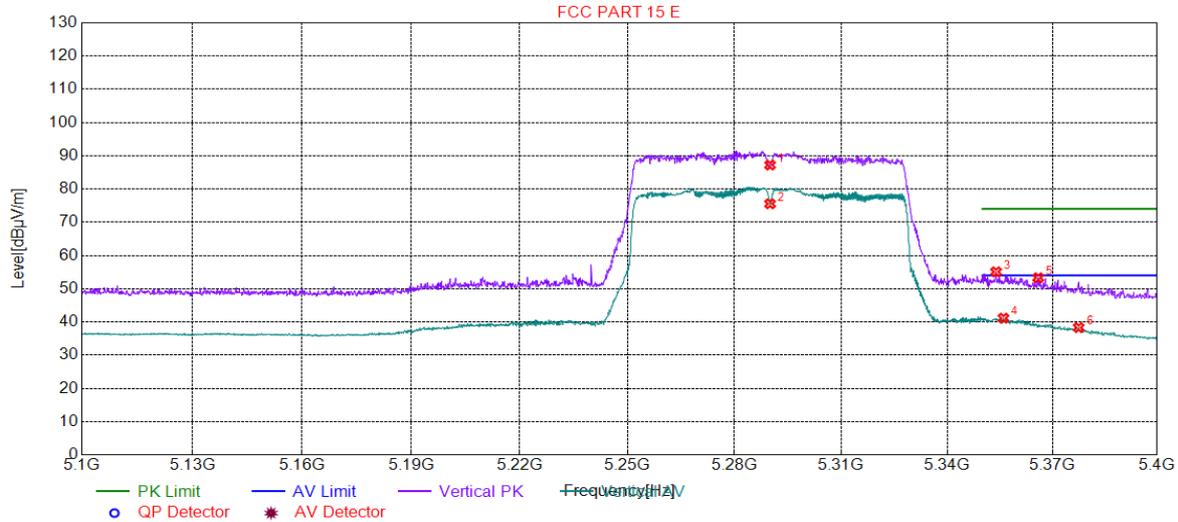


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4.10.1.86 802.11AC80_Channel 58

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	87.21	0.00	-87.21	216	139	Vertical
2	5290.000	75.54	0.00	-75.54	275	139	Vertical
3	5353.927	55.09	74.00	18.91	223	144	Vertical
4	5356.028	41.16	54.00	12.84	234	252	Vertical
5	5365.933	53.30	74.00	20.70	206	246	Vertical
6	5377.488	38.32	54.00	15.68	175	149	Vertical

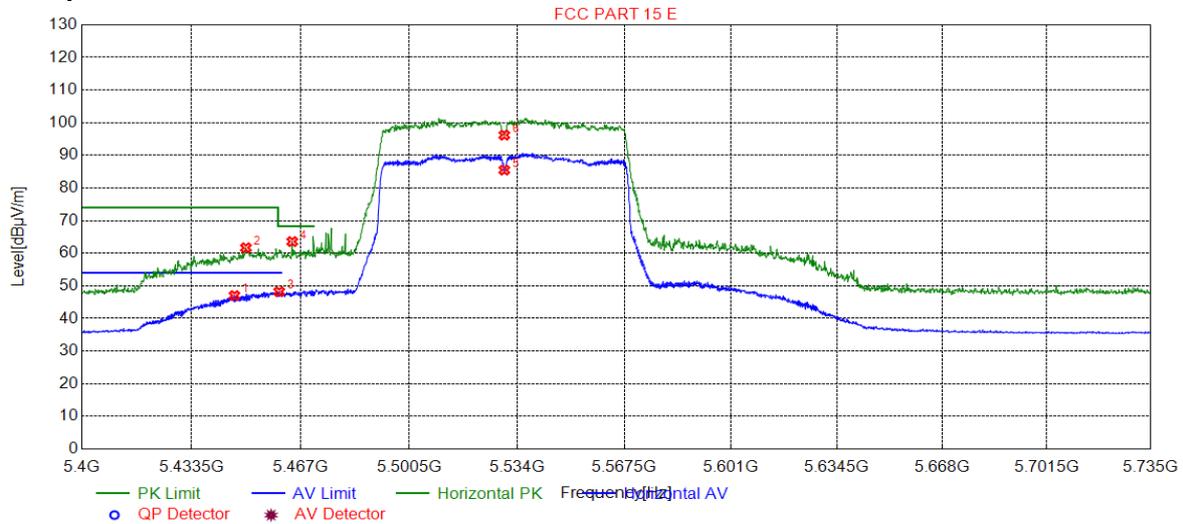
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4.10.1.87 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.588	47.03	54.00	6.97	109	221	Horizontal
2	5450.107	61.68	74.00	12.32	118	221	Horizontal
3	5460.330	48.22	54.00	5.78	132	221	Horizontal
4	5464.352	63.57	68.30	4.73	199	221	Horizontal
5	5530.000	85.48	0.00	-85.48	223	216	Horizontal
6	5530.000	96.19	0.00	-96.19	225	226	Horizontal

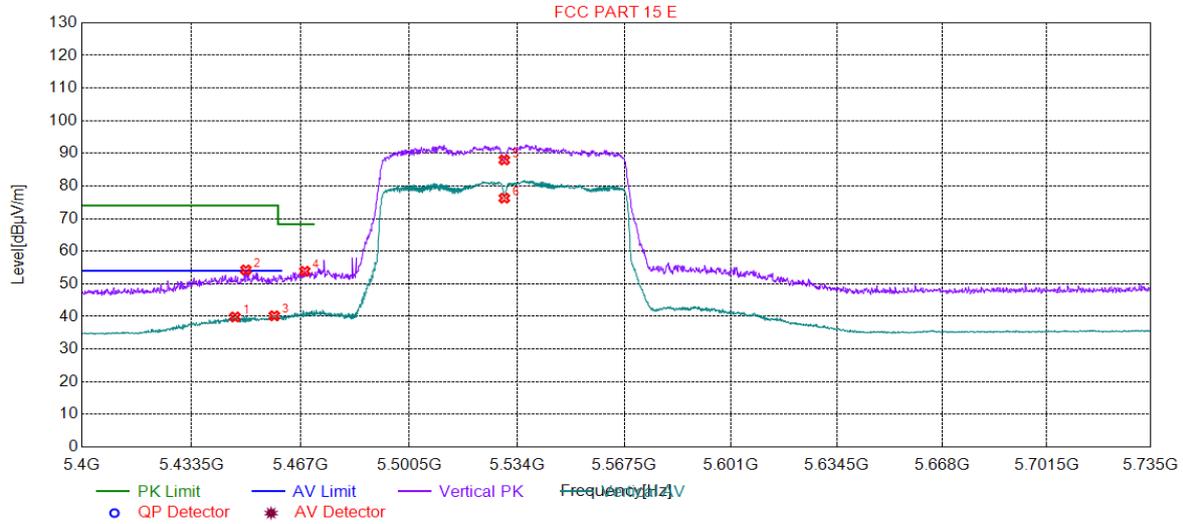
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4.10.1.88 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5446.755	39.87	54.00	14.13	155	247	Vertical
2	5450.107	54.27	74.00	19.73	282	134	Vertical
3	5458.821	40.22	54.00	13.78	280	247	Vertical
4	5468.206	53.87	68.30	14.43	243	247	Vertical
5	5530.000	87.97	0.00	-87.97	284	134	Vertical
6	5530.000	76.26	0.00	-76.26	198	3	Vertical

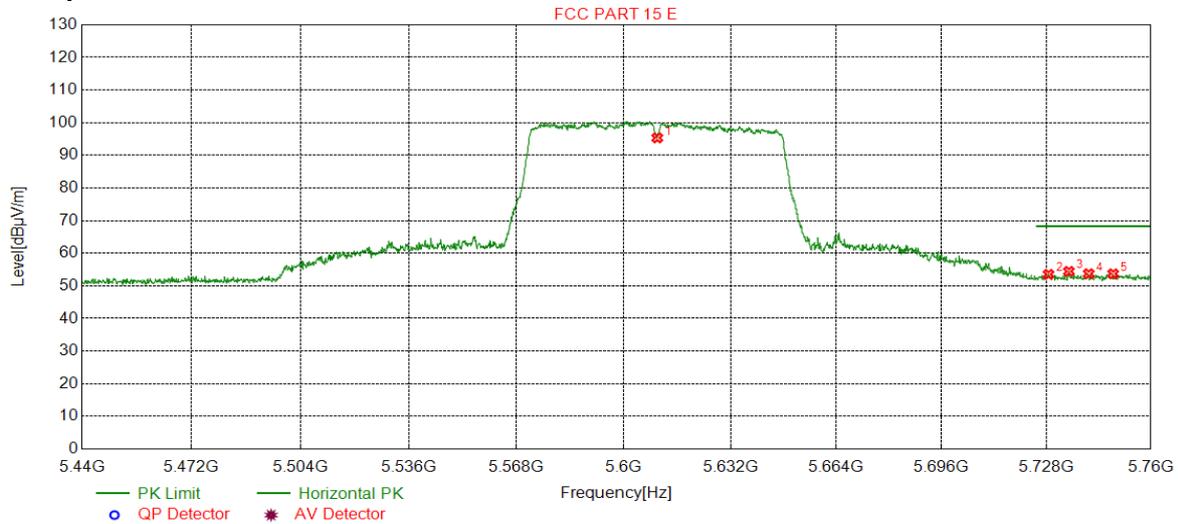
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4.10.1.89 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	95.35	0.00	-95.35	204	230	Horizontal
2	5728.624	53.52	68.30	14.78	164	55	Horizontal
3	5734.867	54.45	68.30	13.85	167	94	Horizontal
4	5740.950	53.72	68.30	14.58	133	16	Horizontal
5	5748.474	53.70	68.30	14.60	224	338	Horizontal

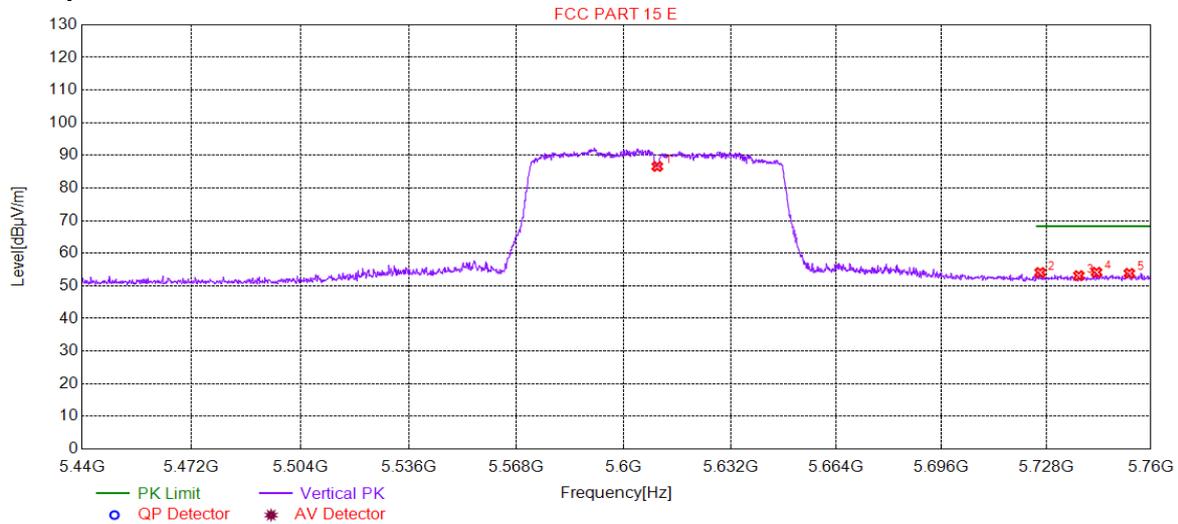
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4.10.1.90 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	86.59	0.00	-86.59	256	211	Vertical
2	5726.063	54.10	68.30	14.20	248	326	Vertical
3	5737.909	53.13	68.30	15.17	263	0	Vertical
4	5743.351	54.18	68.30	14.12	277	284	Vertical
5	5753.436	53.84	68.30	14.46	228	107	Vertical

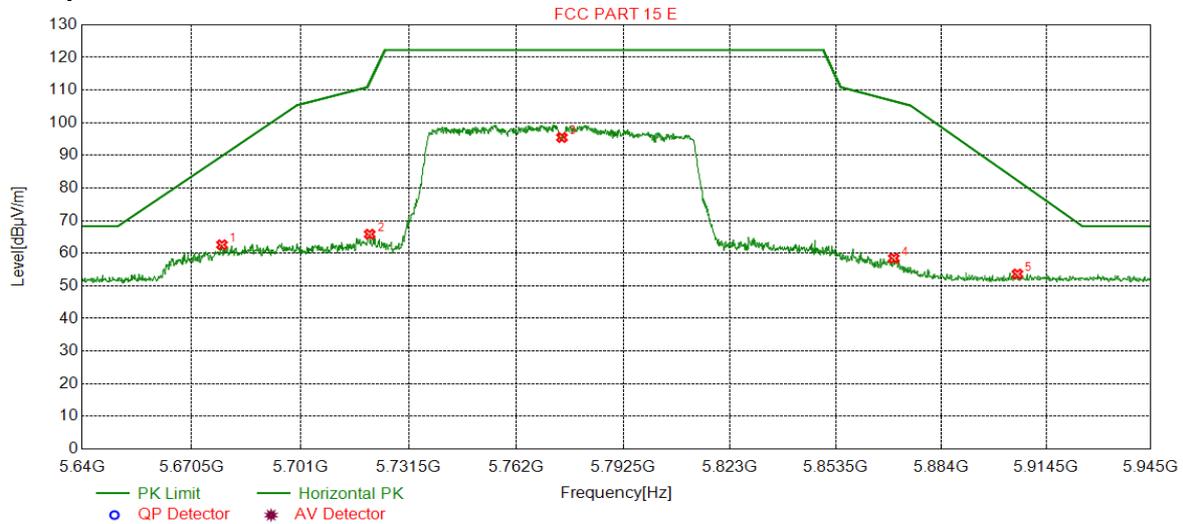
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4.10.1.91 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5679.059	62.59	89.80	27.21	230	221	Horizontal
2	5720.560	65.83	112.18	46.35	156	225	Horizontal
3	5775.000	95.47	122.30	26.83	159	225	Horizontal
4	5870.237	58.46	106.63	48.17	170	221	Horizontal
5	5906.093	53.64	82.29	28.65	108	142	Horizontal

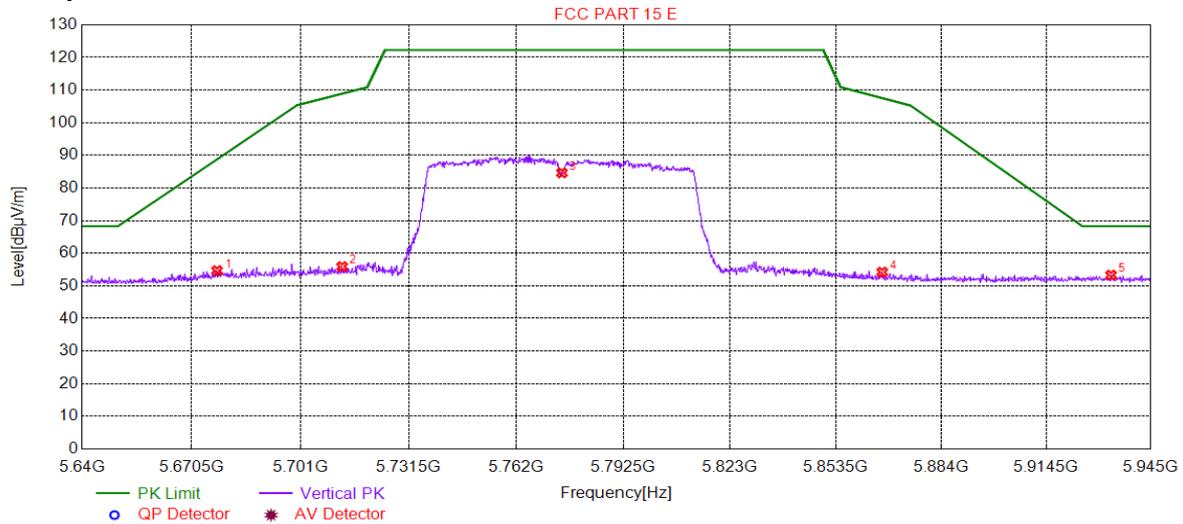
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4.10.1.92 802.11AC80_Channel 155

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5677.686	54.67	88.79	34.12	219	20	Vertical
2	5712.778	55.91	108.88	52.97	181	204	Vertical
3	5775.000	84.63	122.30	37.67	250	208	Vertical
4	5866.880	54.22	107.57	53.35	193	204	Vertical
5	5933.404	53.31	68.30	14.99	239	110	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)	5180.008977	5825.003227
V max(V)	5180.017337	5825.006863
V min(V)	5180.027039	5825.007847
Max. Deviation Frequency	0.027039	0.007847
Max. Frequency Error (ppm)	5.219814	1.347092

4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency (MHz)	
	5180	5825
-5	5180.004390	5825.009455
5	5180.005085	5825.015410
15	5180.013817	5825.017312
25	5180.019642	5825.017477
35	5180.022086	5825.024168
45	5180.026339	5825.033433
50	5180.034250	5825.033752
Max. Deviation Frequency	0.034250	0.033752
Max. Frequency Error (ppm)	6.611981	5.794330



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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
<p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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4.12.2 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 ≥ 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. 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. Note 3: 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. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	



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4.12.4 Test plots

4.12.4.1 DFS Detection Thresholds

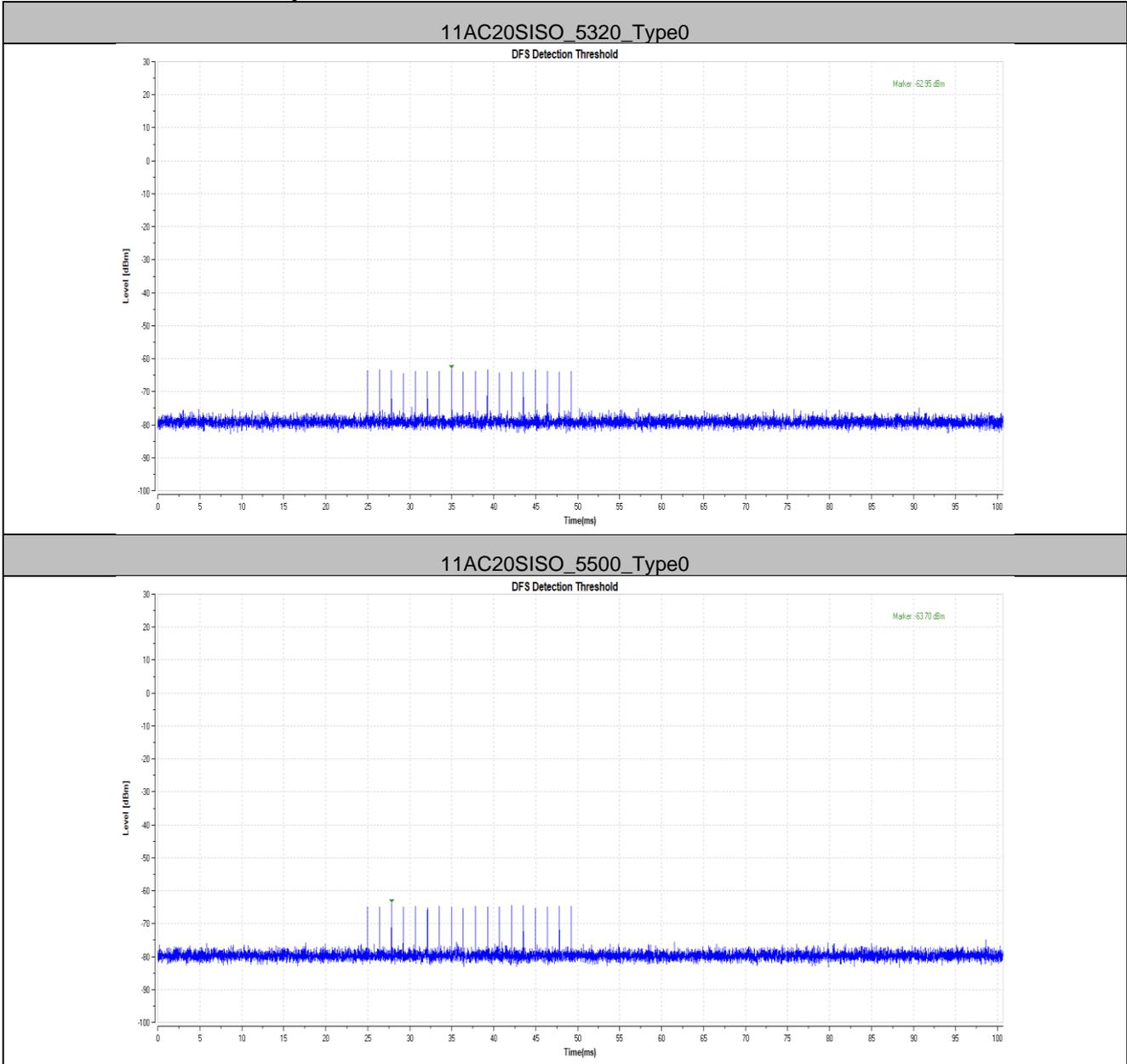
4.12.4.1.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.95	-61.00	PASS
	5500	Type0	-63.70	-61.00	PASS
11AC80SISO	5290	Type0	-62.24	-61.00	PASS
	5530	Type0	-63.59	-61.00	PASS



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4.12.4.1.2 Test Graphs

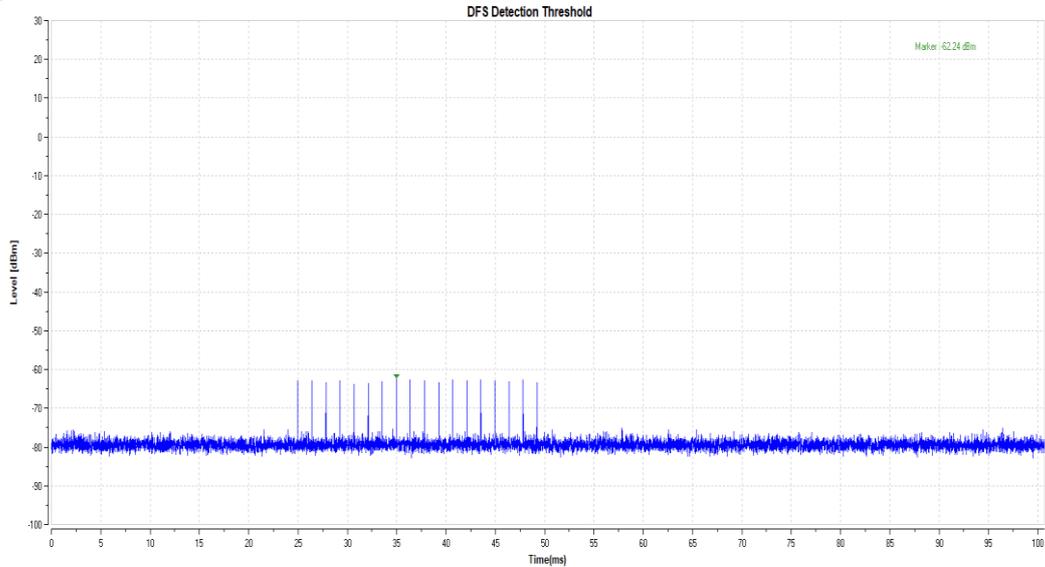


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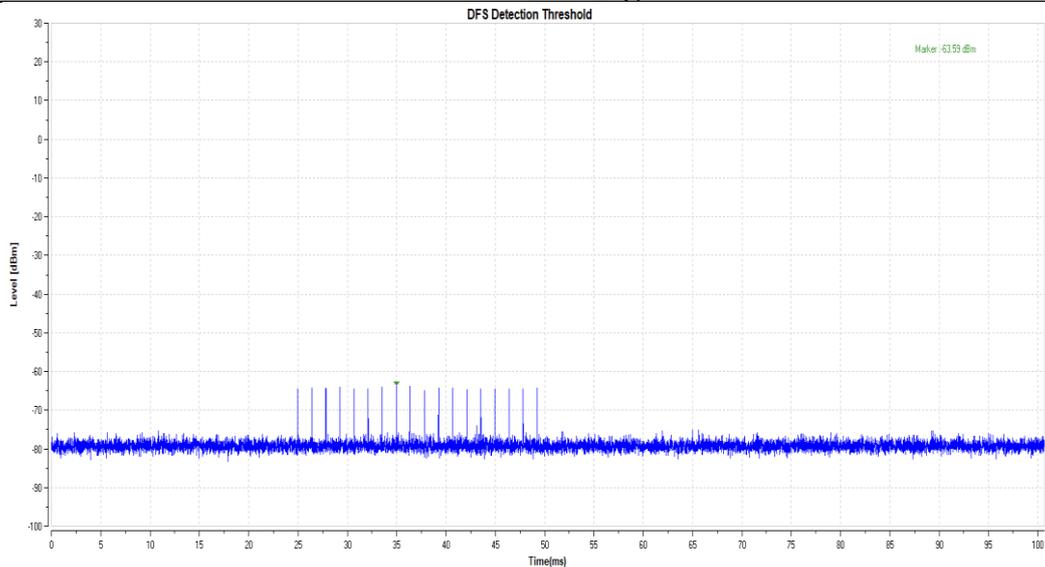
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11AC80SISO_5290_Type0



11AC80SISO_5530_Type0



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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

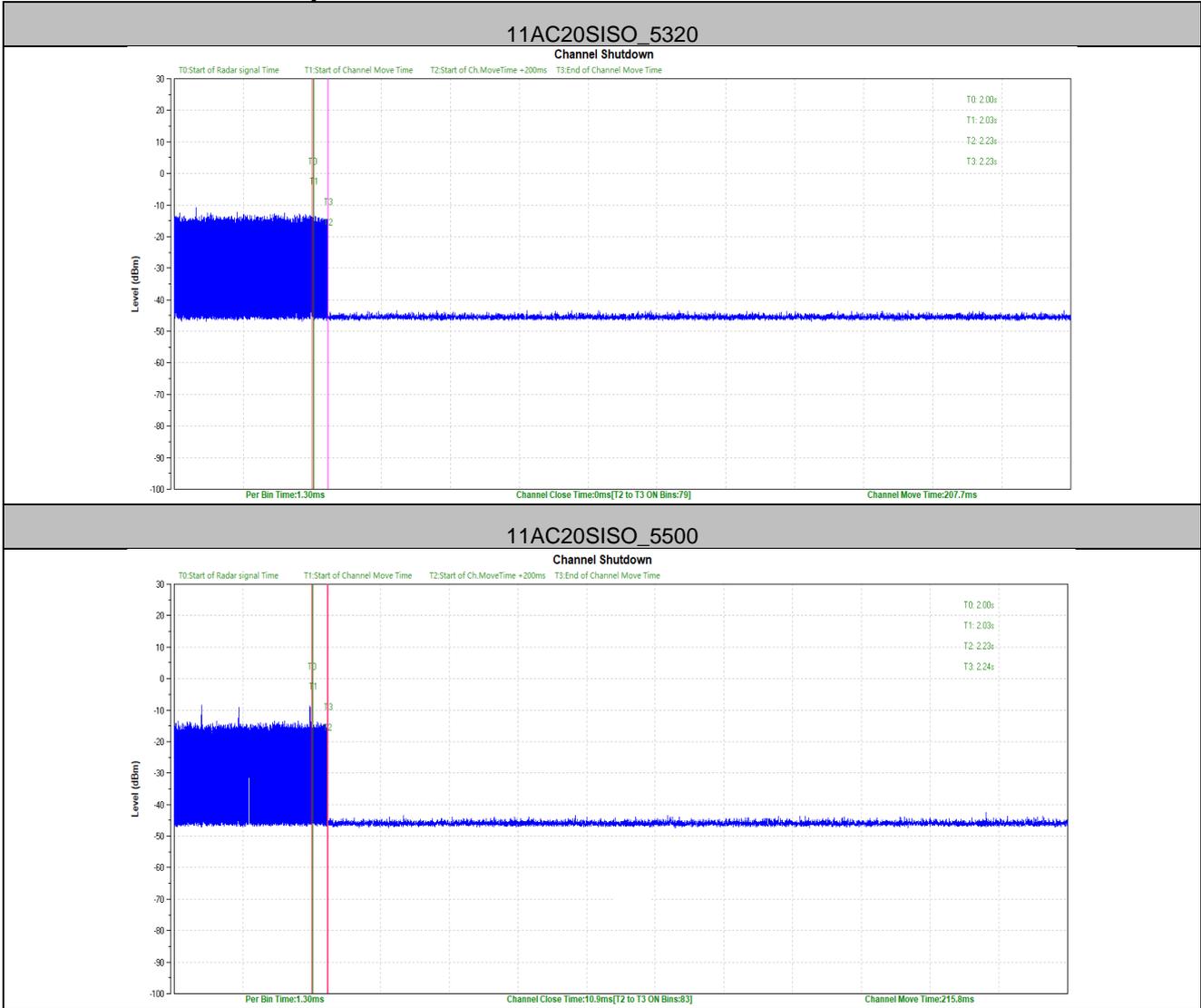
4.12.4.2.1 Test Result

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	0	60	207.7	10000	PASS
	5500	10.9	60	215.8	10000	PASS
11AC80SISO	5290	0	60	201.9	10000	PASS
	5530	9.8	60	214.6	10000	PASS



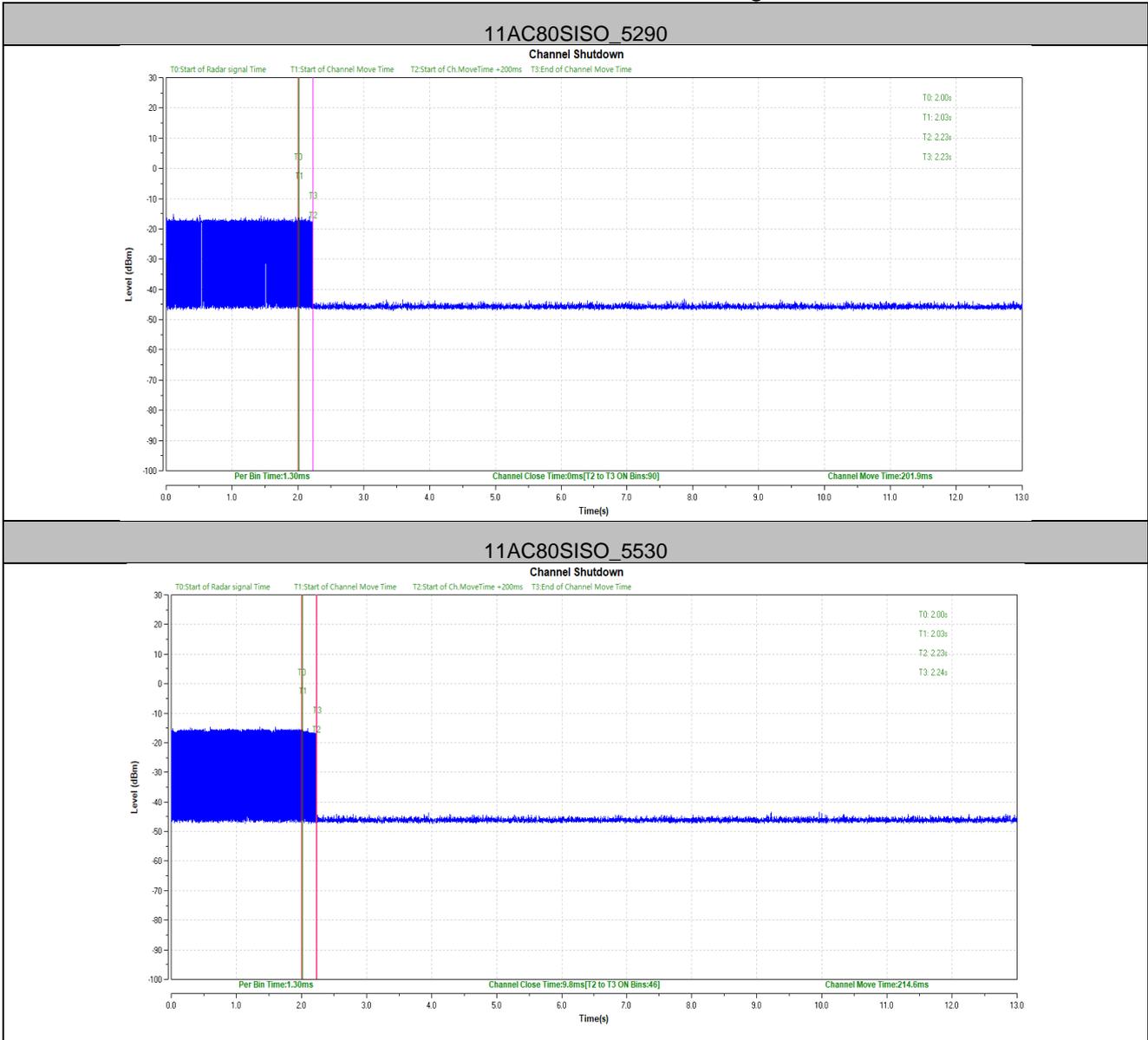
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4.12.4.2.2 Test Graphs



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4.12.4.3 Non-Occupancy Period

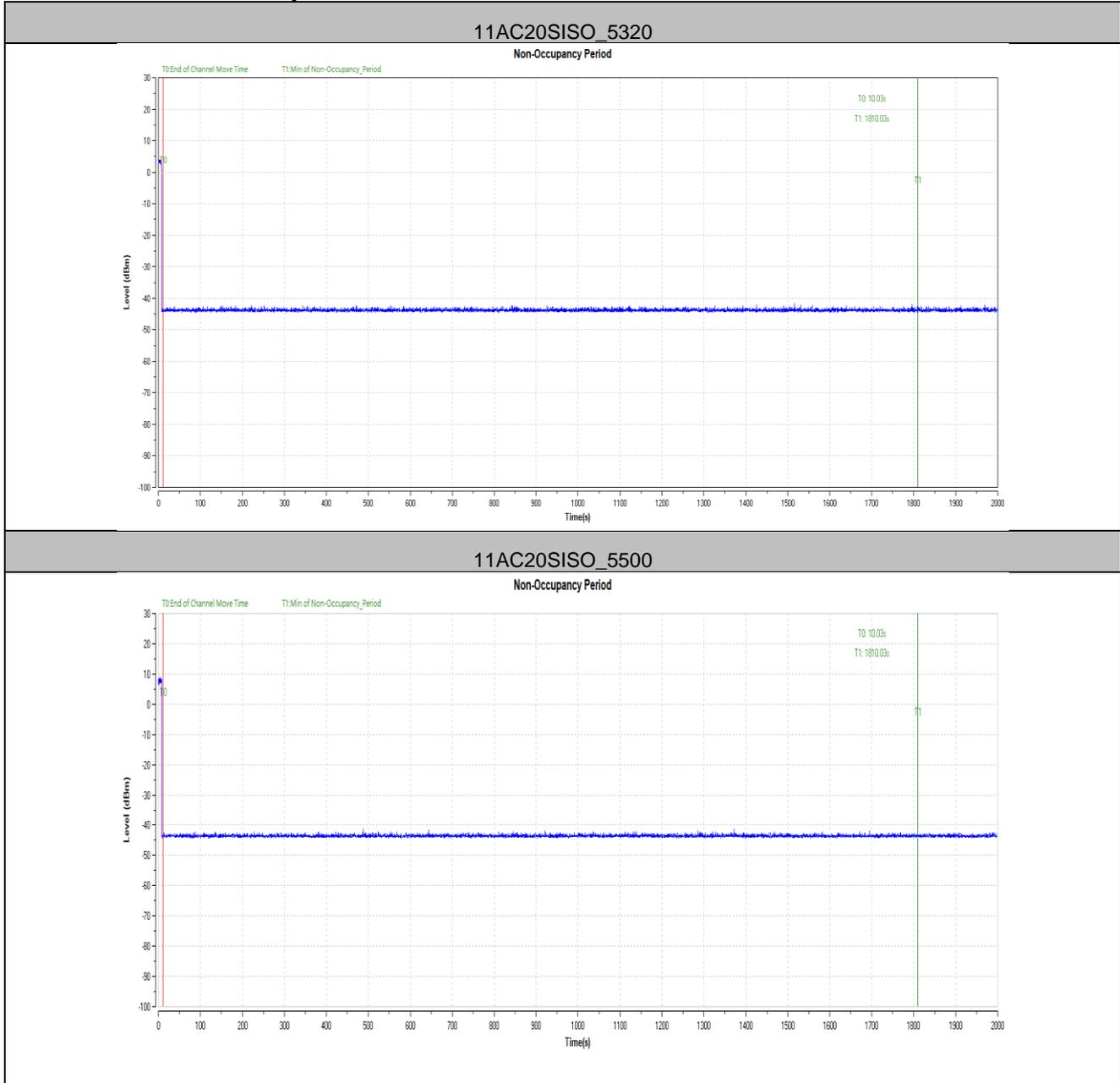
4.12.4.3.1 Test Result

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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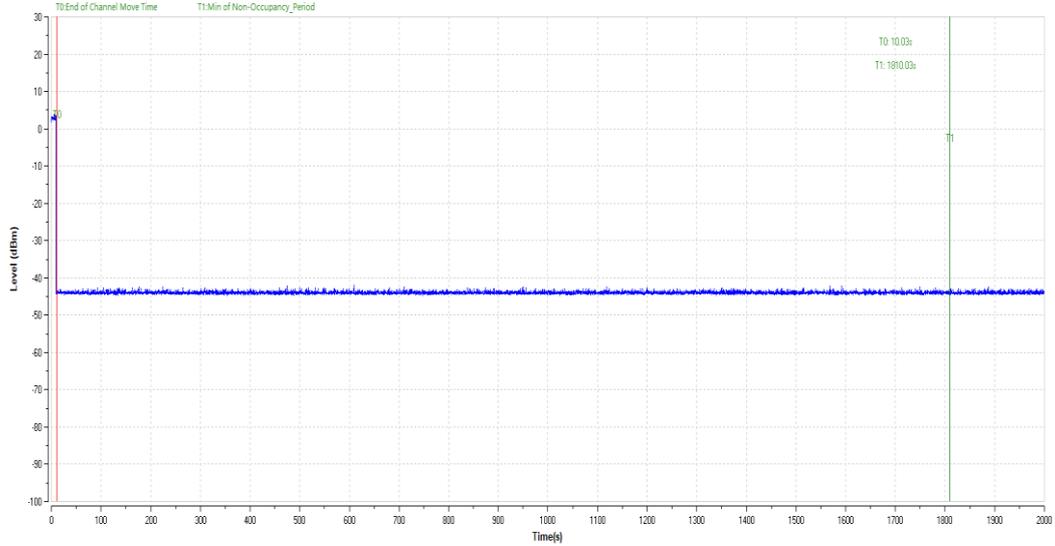
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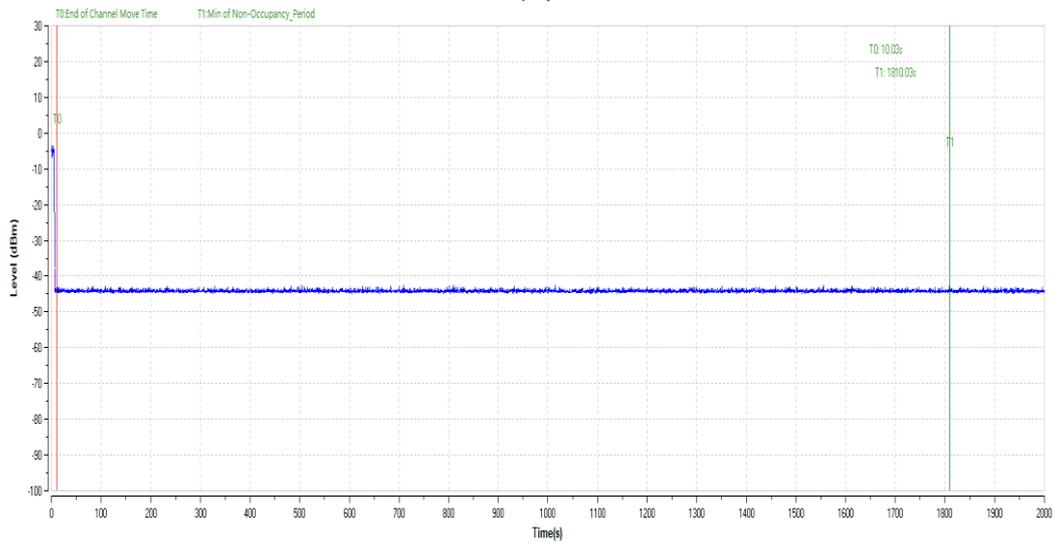
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Non-Occupancy Period



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	±0.75dB
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)



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6 Equipment List

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	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14

DFS					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87- WRT3200ACM IC ID:3839A- WRT3200ACM	N/A	N/A
MXA signal analyzer	Angilent	N9020A	XAW01-06-07	2020/4/16	2021/4/15
MXG vector signal Generator	Angilent	N5182B	XAW01-07-16	2020/4/16	2021/4/15
MXG vector signal Generator	Angilent	N5182A	XAW01-07-17	2020/4/16	2021/4/15



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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	XAW01-04-03	2019-12-11	2020-12-10
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
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

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for AR/2020/B0003.



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Appendix



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Emission Bandwidth
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.210	5168.810	5193.020	---	PASS
		5200	22.260	5188.870	5211.130	---	PASS
		5240	22.110	5228.810	5250.920	---	PASS
		5260	22.440	5248.810	5271.250	---	PASS
		5300	22.080	5288.840	5310.920	---	PASS
		5320	22.110	5308.810	5330.920	---	PASS
		5500	22.590	5488.450	5511.040	---	PASS
		5580	22.170	5568.780	5590.950	---	PASS
		5700	22.680	5688.480	5711.160	---	PASS
		5745	22.380	5733.750	5756.130	---	PASS
		5785	23.040	5773.750	5796.790	---	PASS
		5825	22.560	5813.600	5836.160	---	PASS
11N20SISO	Ant1	5180	24.330	5167.580	5191.910	---	PASS
		5200	23.670	5188.120	5211.790	---	PASS
		5240	23.670	5228.150	5251.820	---	PASS
		5260	24.240	5248.060	5272.300	---	PASS
		5300	23.220	5288.570	5311.790	---	PASS
		5320	23.550	5308.240	5331.790	---	PASS
		5500	23.610	5488.210	5511.820	---	PASS
		5580	23.790	5568.030	5591.820	---	PASS
		5700	23.910	5688.090	5712.000	---	PASS
		5745	23.760	5733.060	5756.820	---	PASS
		5785	24.240	5772.550	5796.790	---	PASS
		5825	23.700	5813.090	5836.790	---	PASS
11N40SISO	Ant1	5190	41.820	5168.940	5210.760	---	PASS
		5230	41.040	5209.600	5250.640	---	PASS
		5270	41.280	5249.420	5290.700	---	PASS
		5310	41.460	5289.240	5330.700	---	PASS



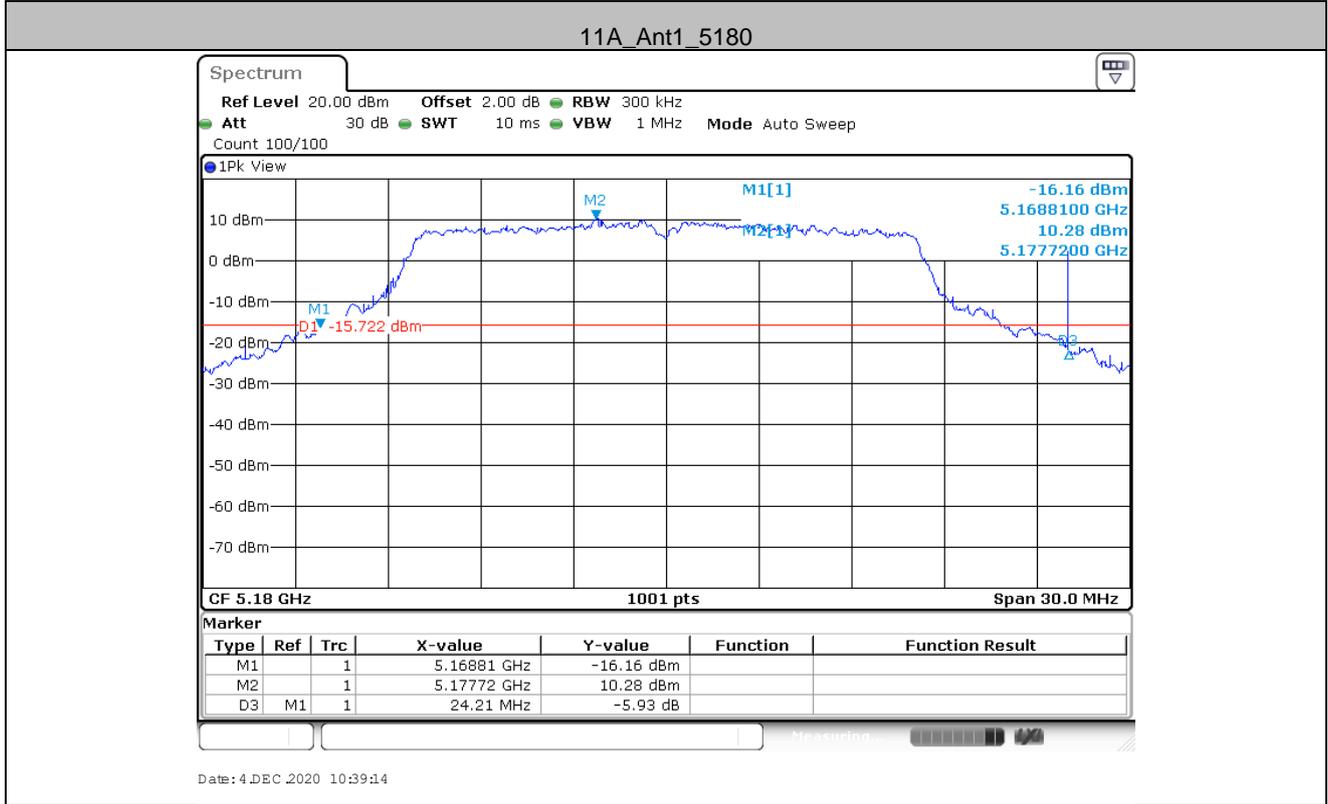
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		5510	40.800	5489.720	5530.520	---	PASS
		5550	40.740	5529.780	5570.520	---	PASS
		5670	41.340	5649.360	5690.700	---	PASS
		5755	41.580	5734.120	5775.700	---	PASS
		5795	41.460	5774.240	5815.700	---	PASS
11AC20SISO	Ant1	5180	24.390	5168.060	5192.450	---	PASS
		5200	23.700	5188.120	5211.820	---	PASS
		5240	23.760	5228.090	5251.850	---	PASS
		5260	24.660	5248.180	5272.840	---	PASS
		5300	23.850	5288.060	5311.910	---	PASS
		5320	23.370	5308.540	5331.910	---	PASS
		5500	23.670	5488.120	5511.790	---	PASS
		5580	23.850	5568.060	5591.910	---	PASS
		5700	24.300	5688.090	5712.390	---	PASS
		5745	23.550	5733.240	5756.790	---	PASS
		5785	23.730	5773.090	5796.820	---	PASS
		5825	23.430	5813.360	5836.790	---	PASS
11AC40SISO	Ant1	5190	42.180	5168.820	5211.000	---	PASS
		5230	41.940	5208.880	5250.820	---	PASS
		5270	41.880	5249.120	5291.000	---	PASS
		5310	41.700	5289.120	5330.820	---	PASS
		5510	41.640	5489.120	5530.760	---	PASS
		5550	41.700	5529.240	5570.940	---	PASS
		5670	41.460	5649.240	5690.700	---	PASS
		5755	41.820	5733.820	5775.640	---	PASS
		5795	41.760	5774.060	5815.820	---	PASS
11AC80SISO	Ant1	5210	84.120	5167.880	5252.000	---	PASS
		5290	84.000	5248.000	5332.000	---	PASS
		5530	84.120	5487.760	5571.880	---	PASS
		5610	84.600	5567.400	5652.000	---	PASS
		5775	84.240	5732.640	5816.880	---	PASS



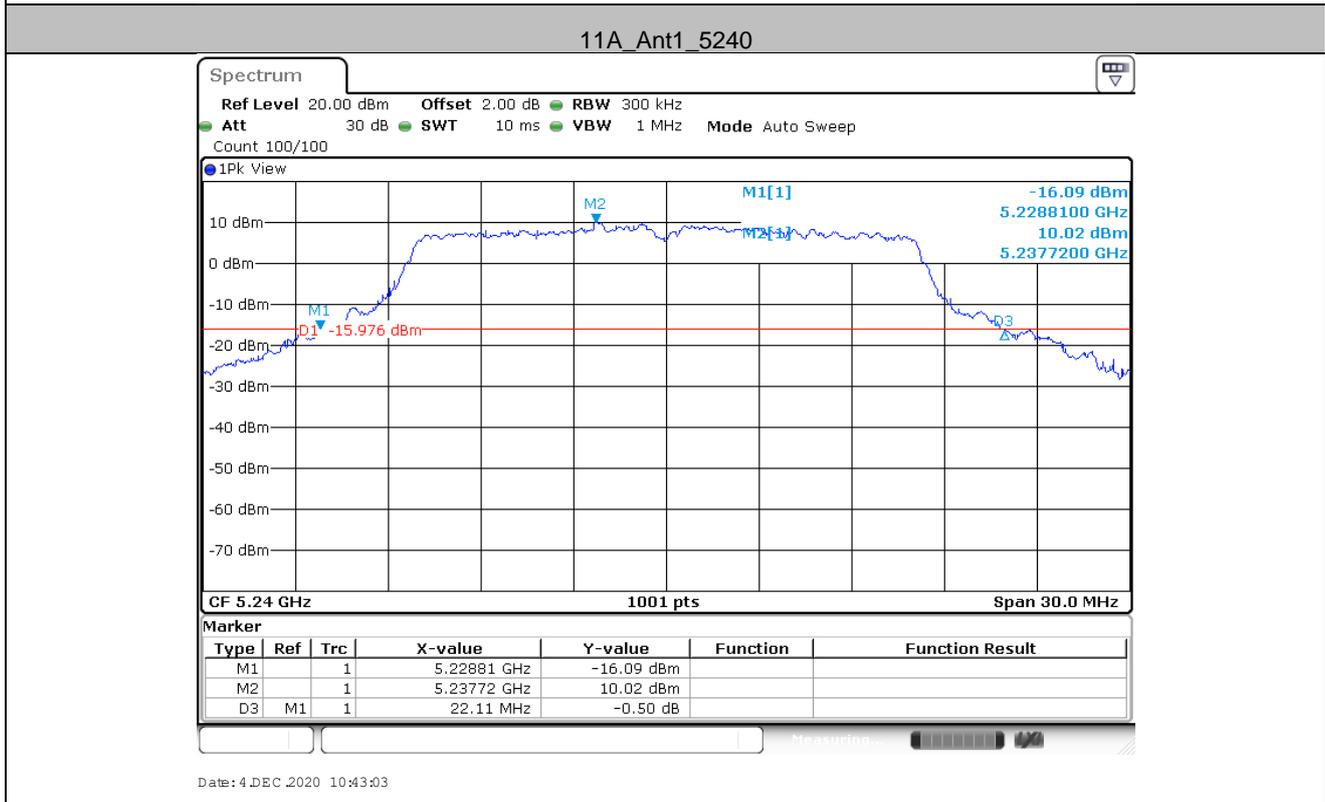
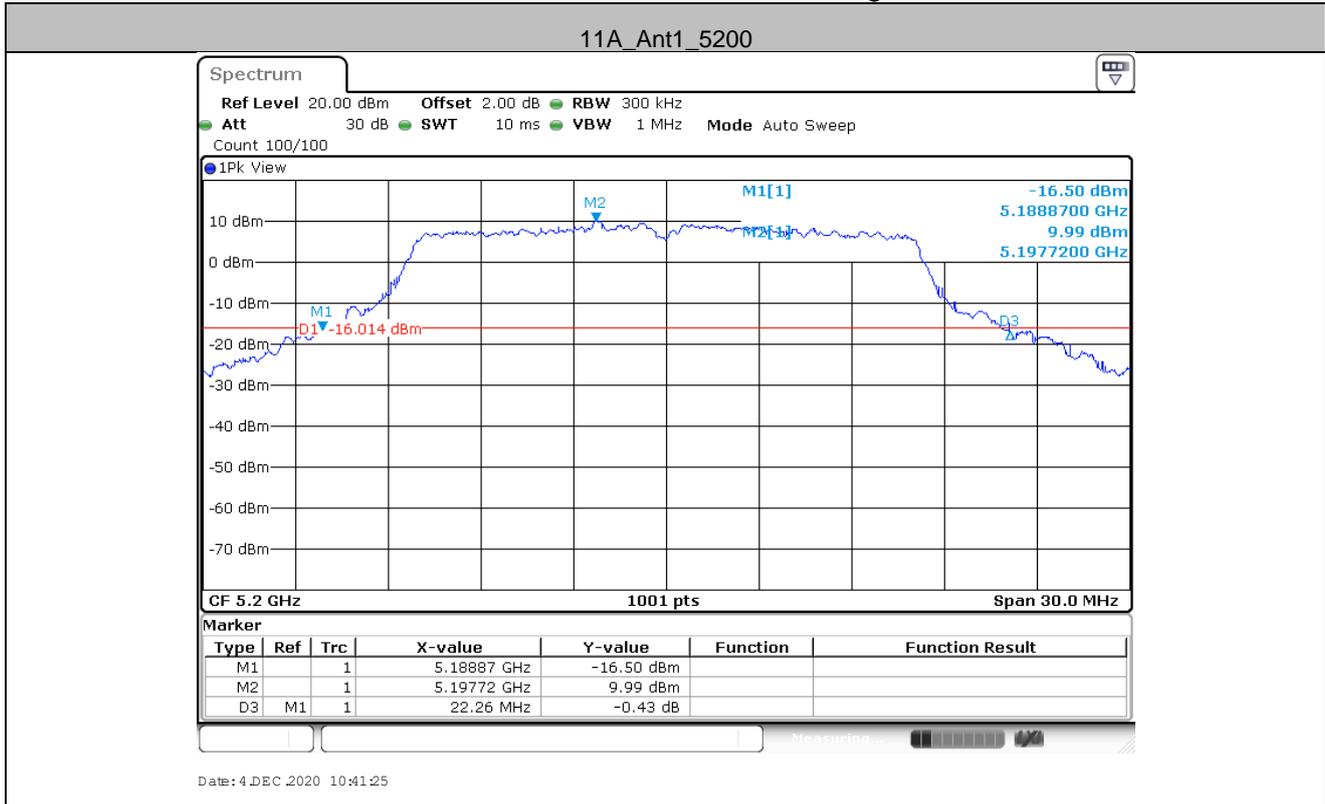
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Test Graphs

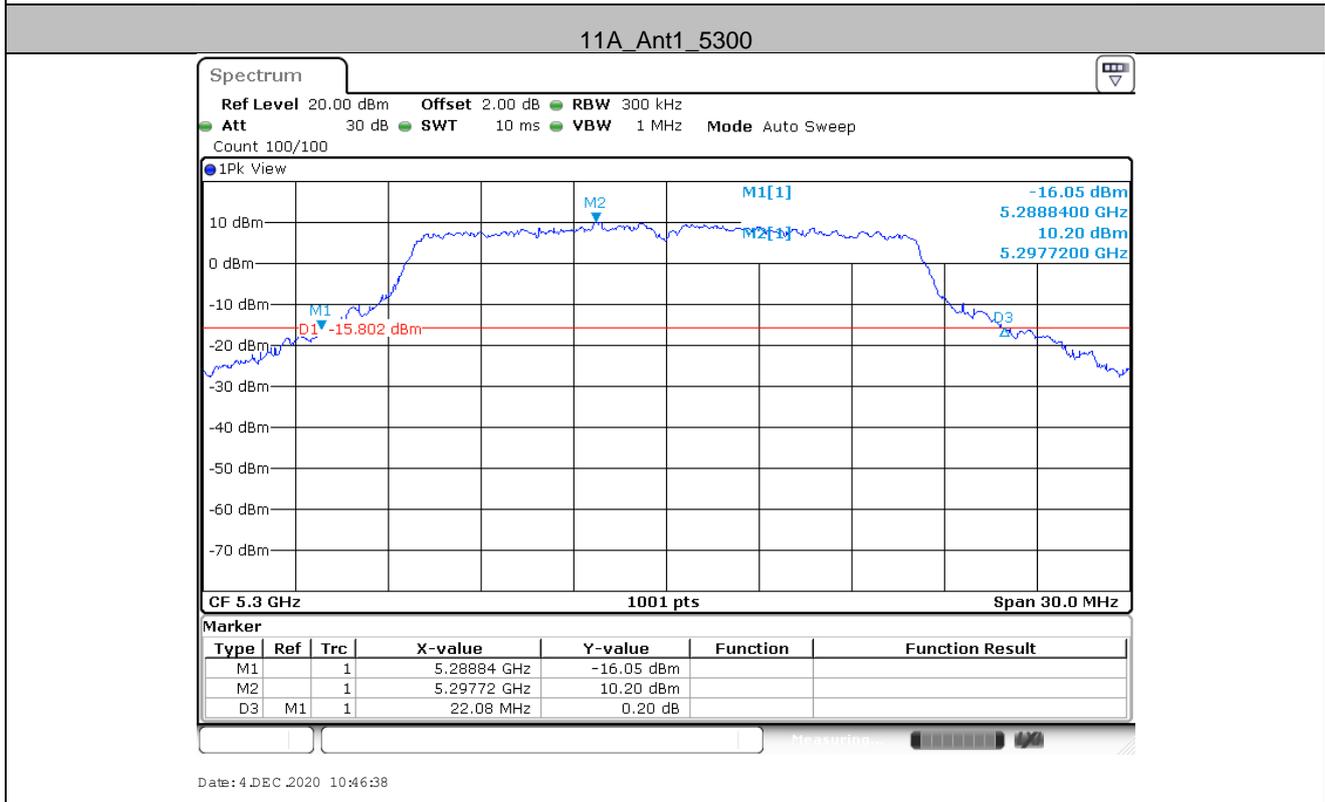
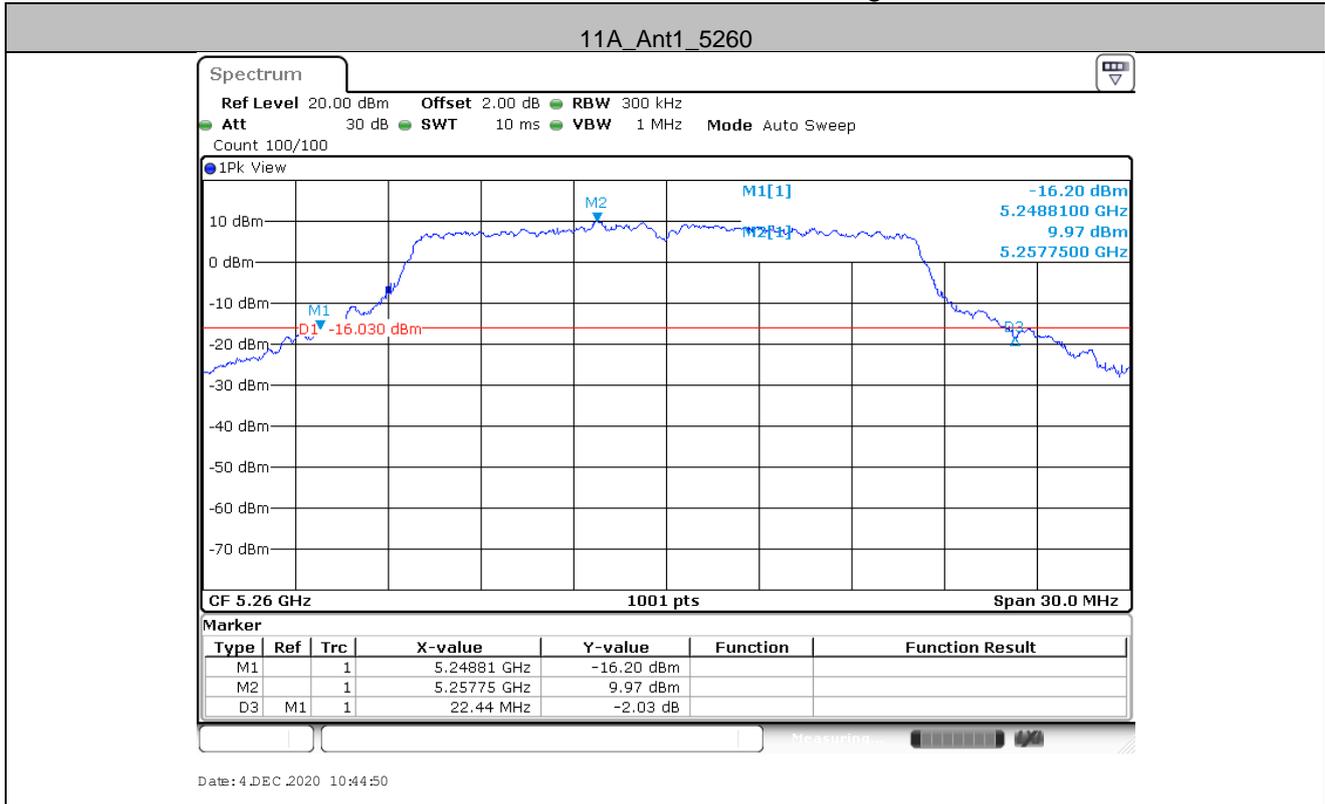


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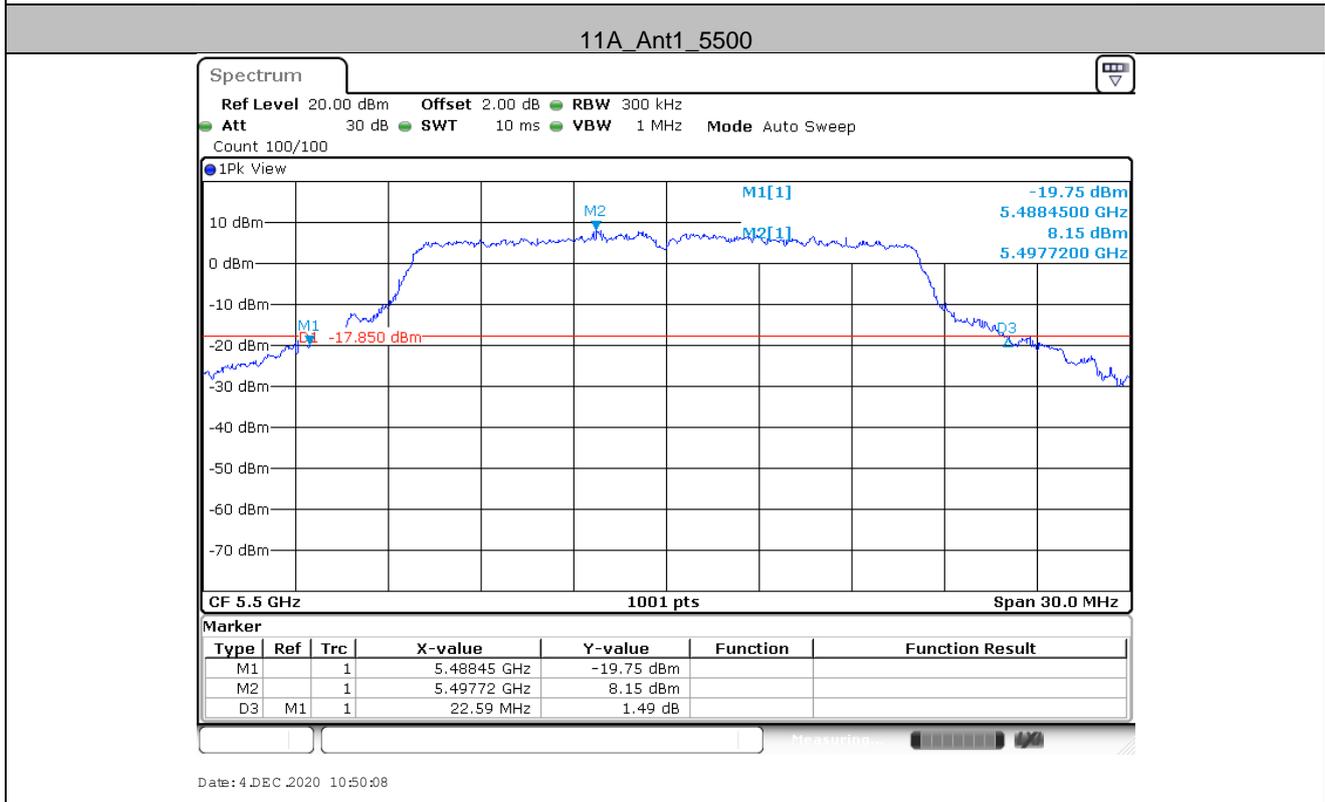
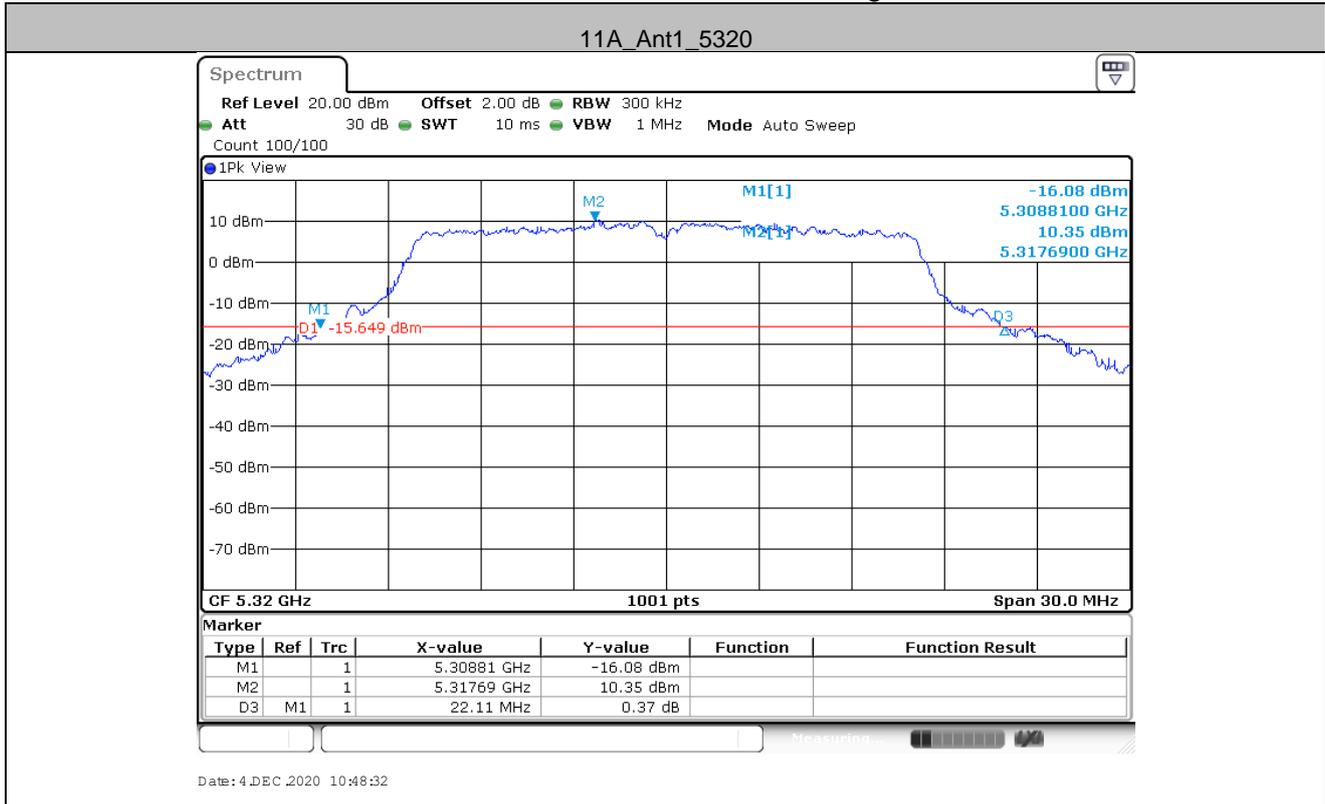
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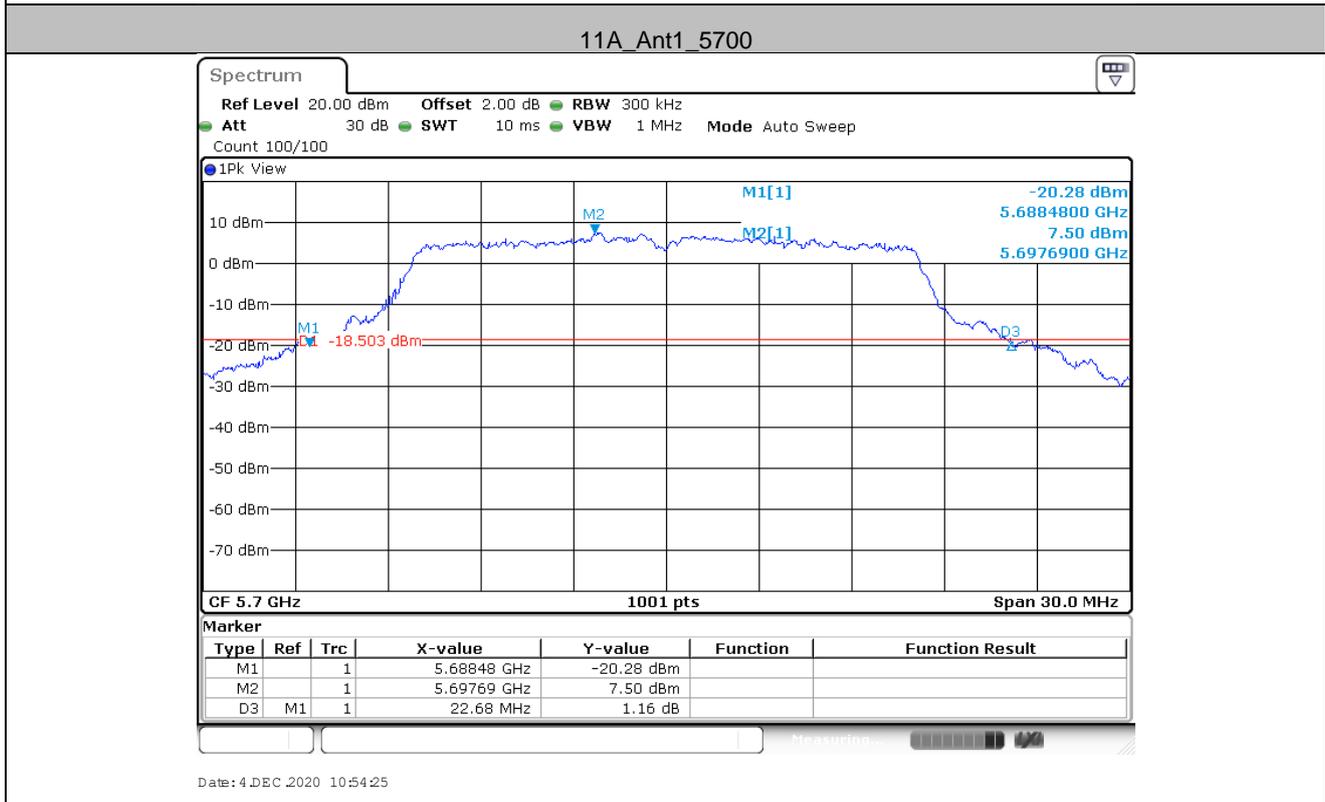
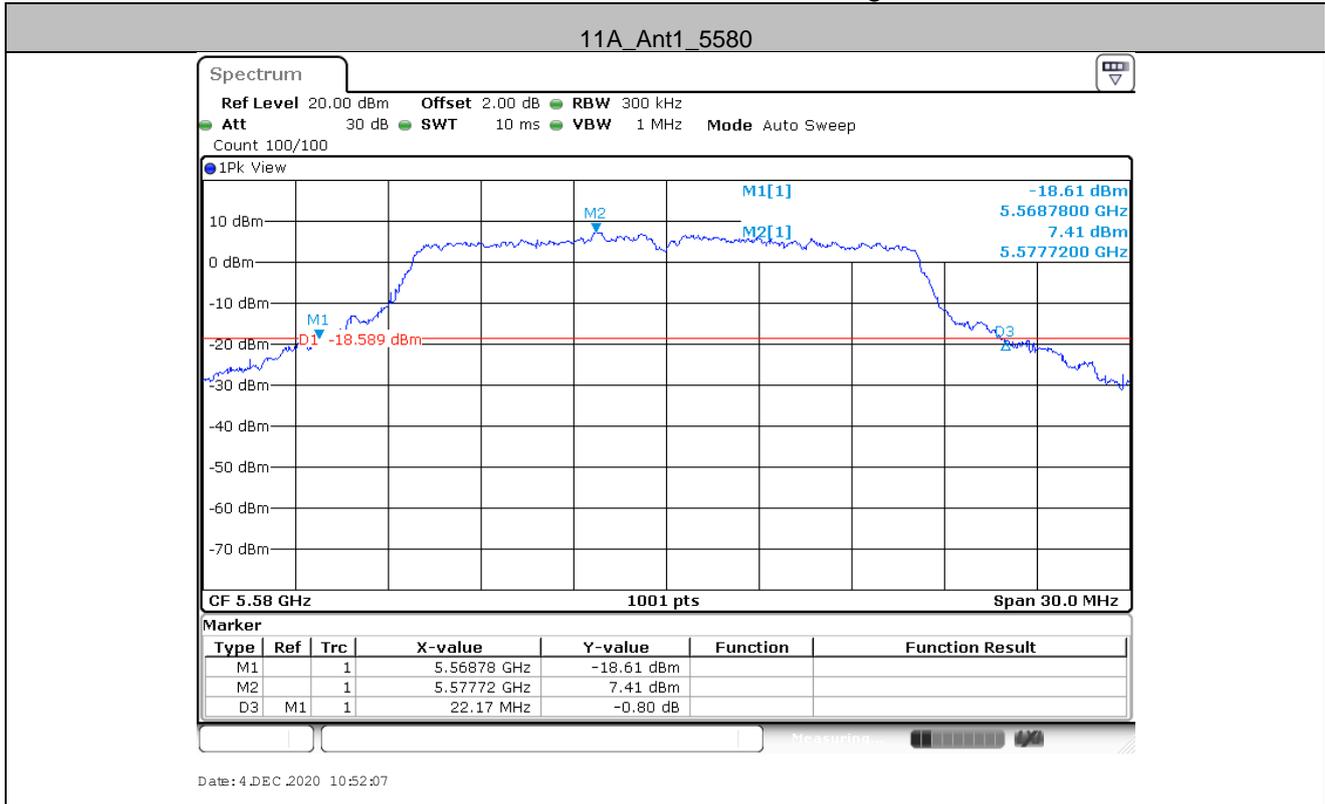
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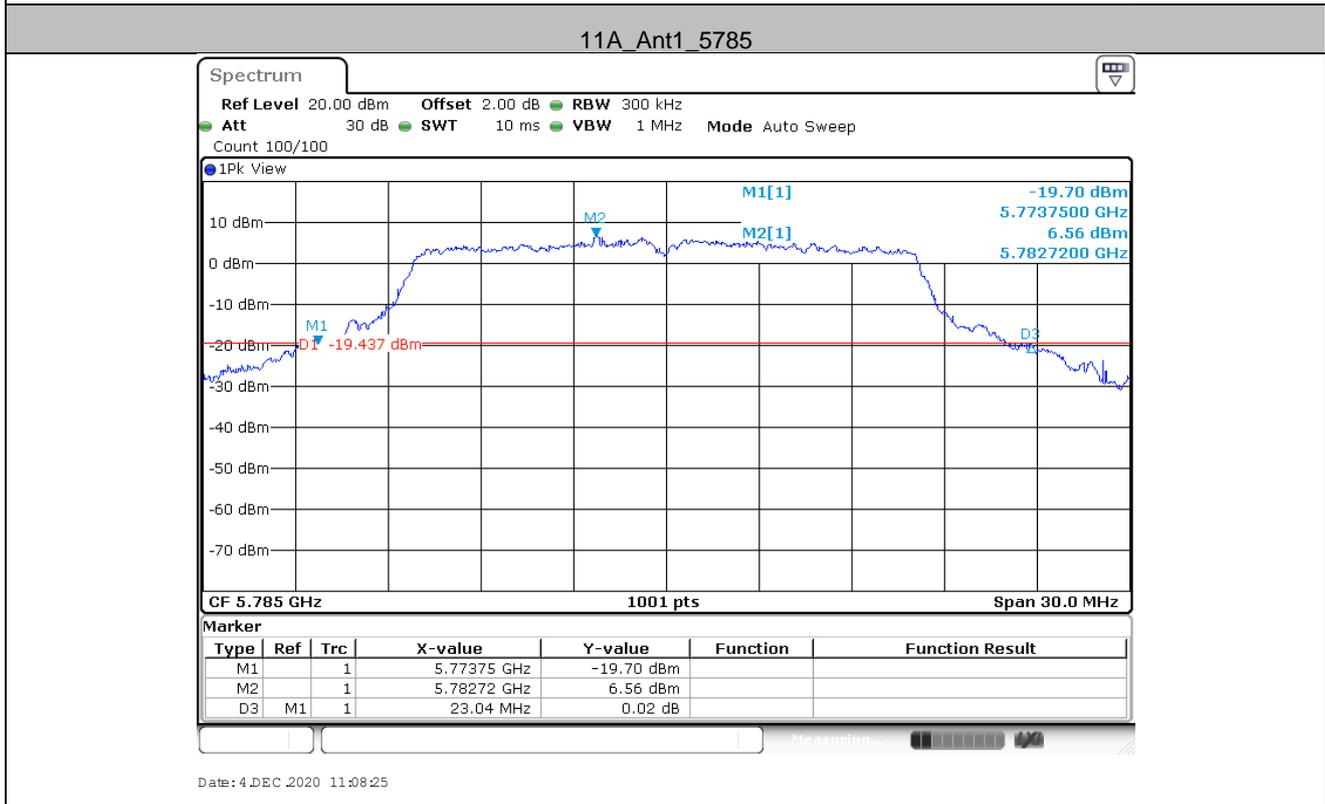
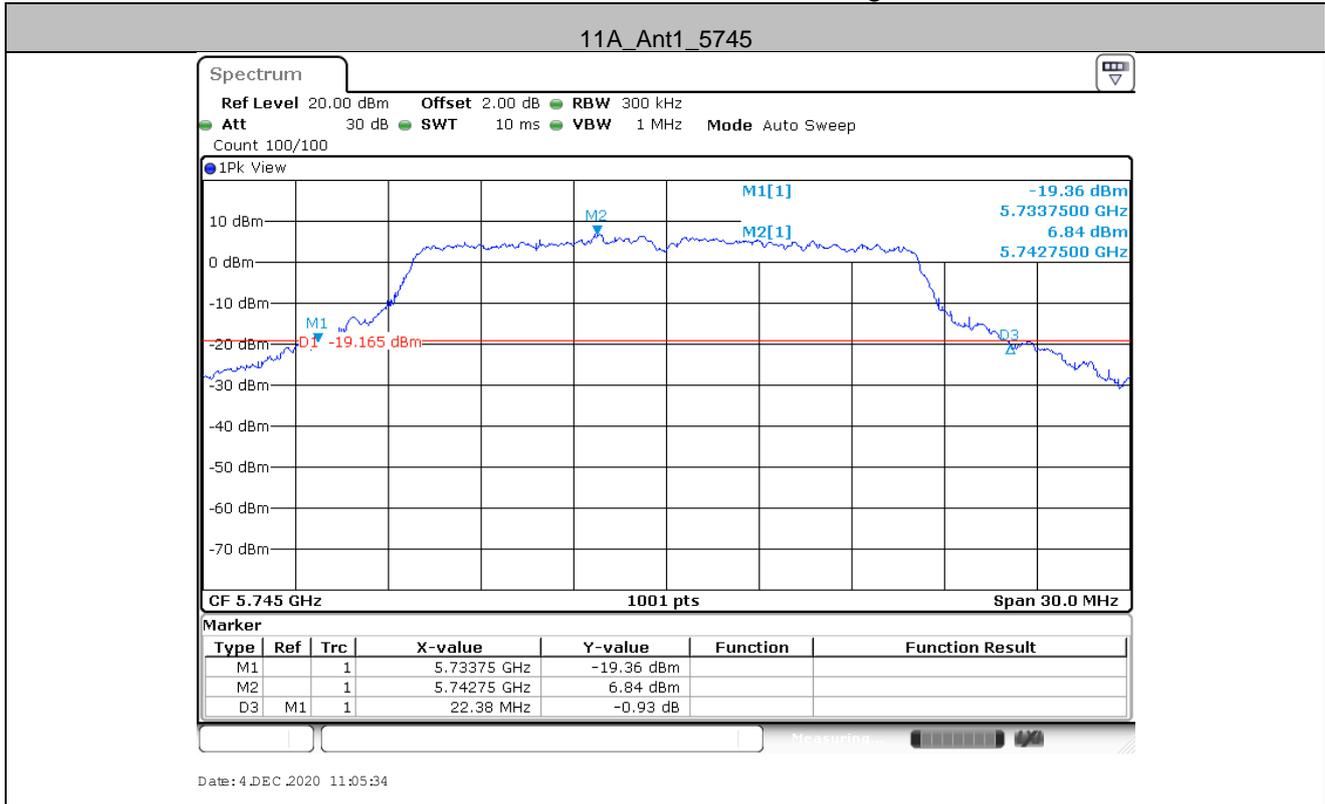
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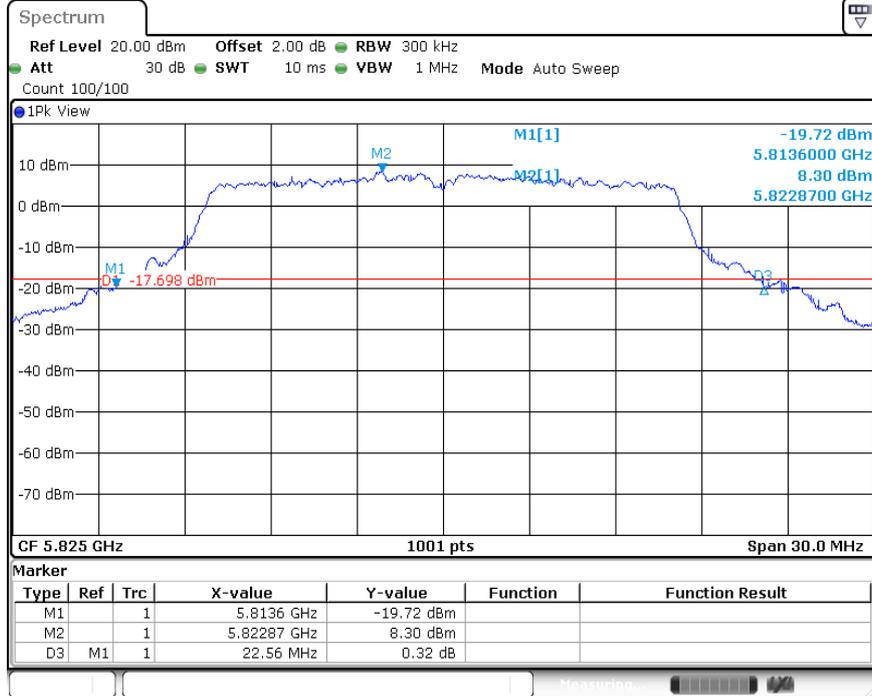


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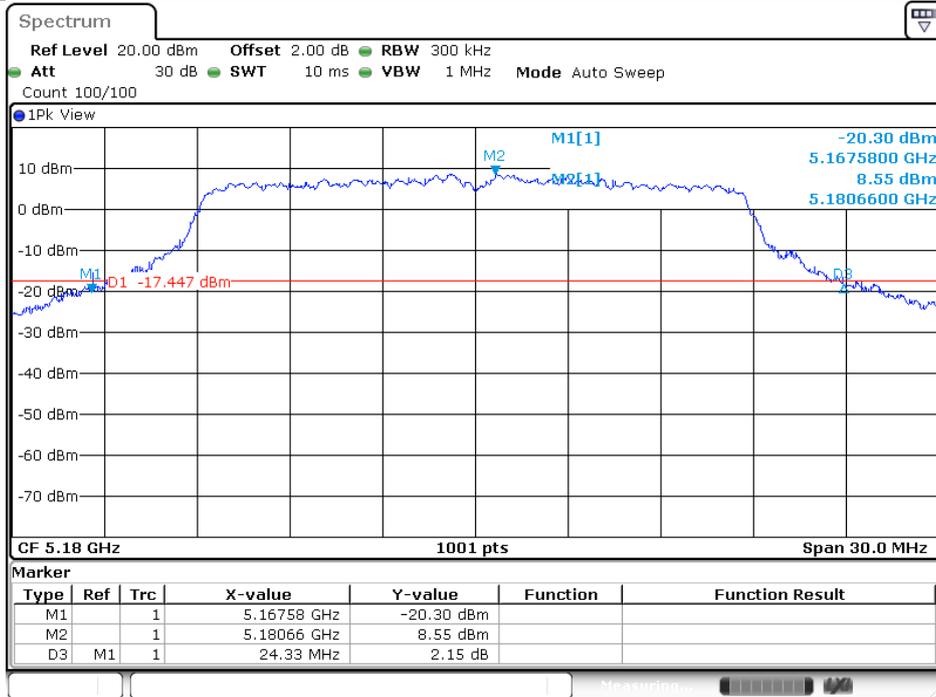
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11A_Ant1_5825



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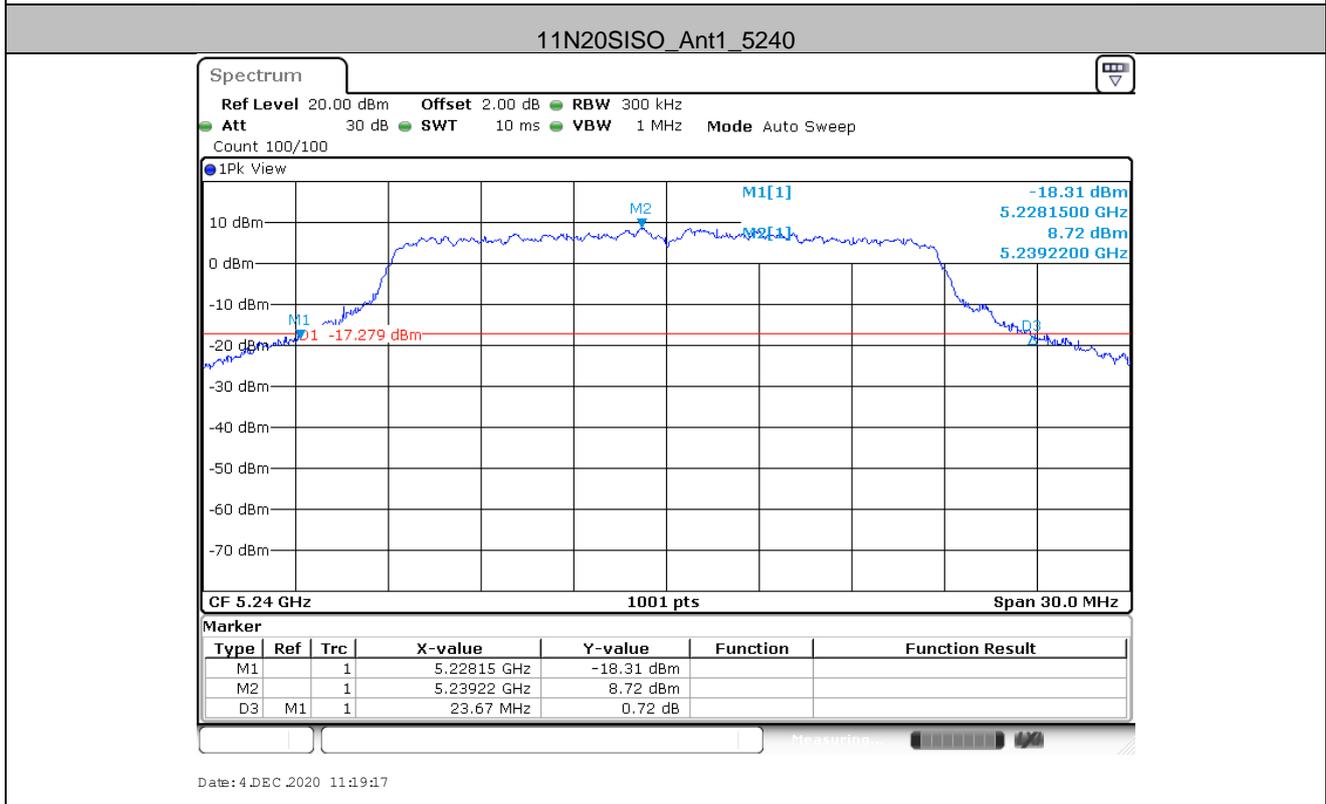
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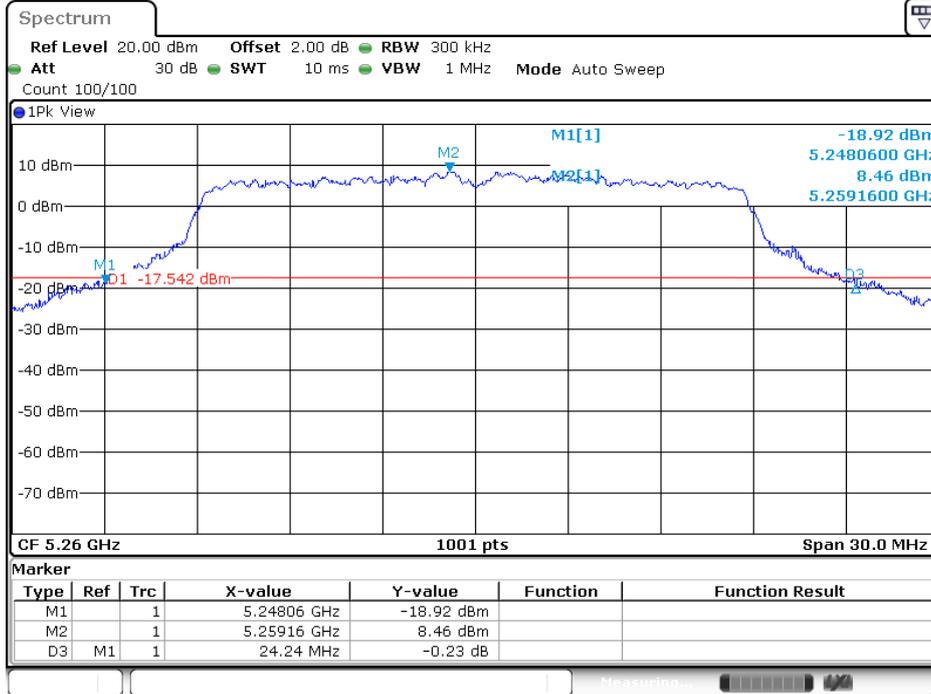


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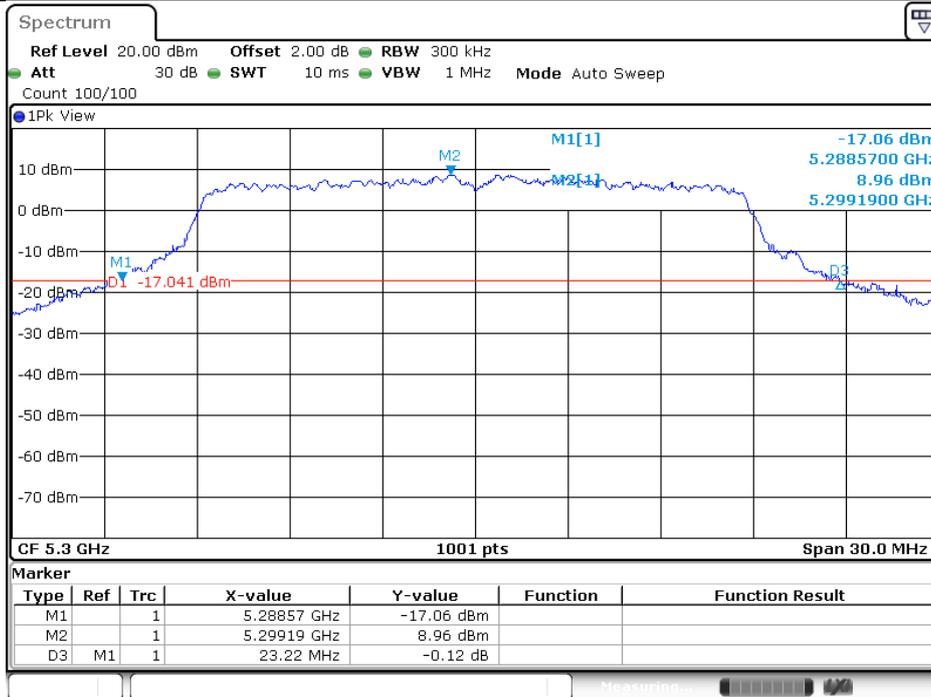
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11N20SISO_Ant1_5260



Date: 4 DEC 2020 11:20:53

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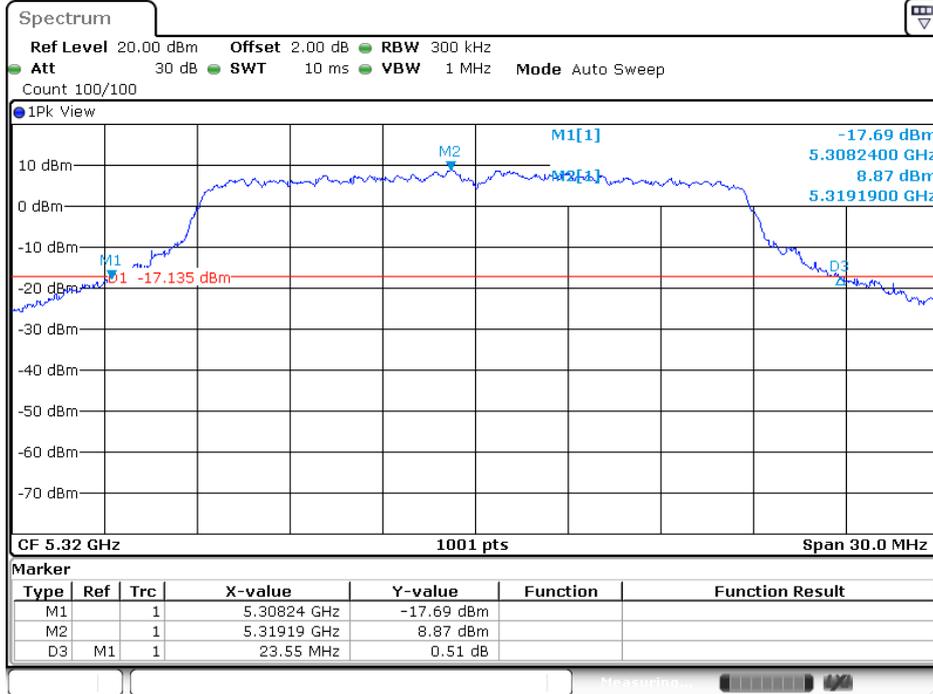
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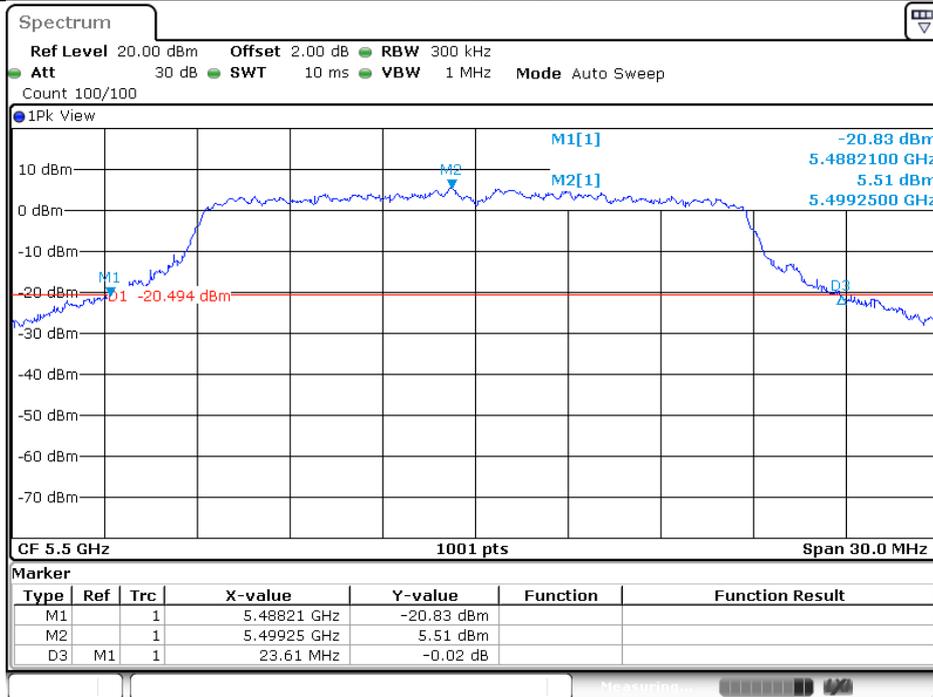
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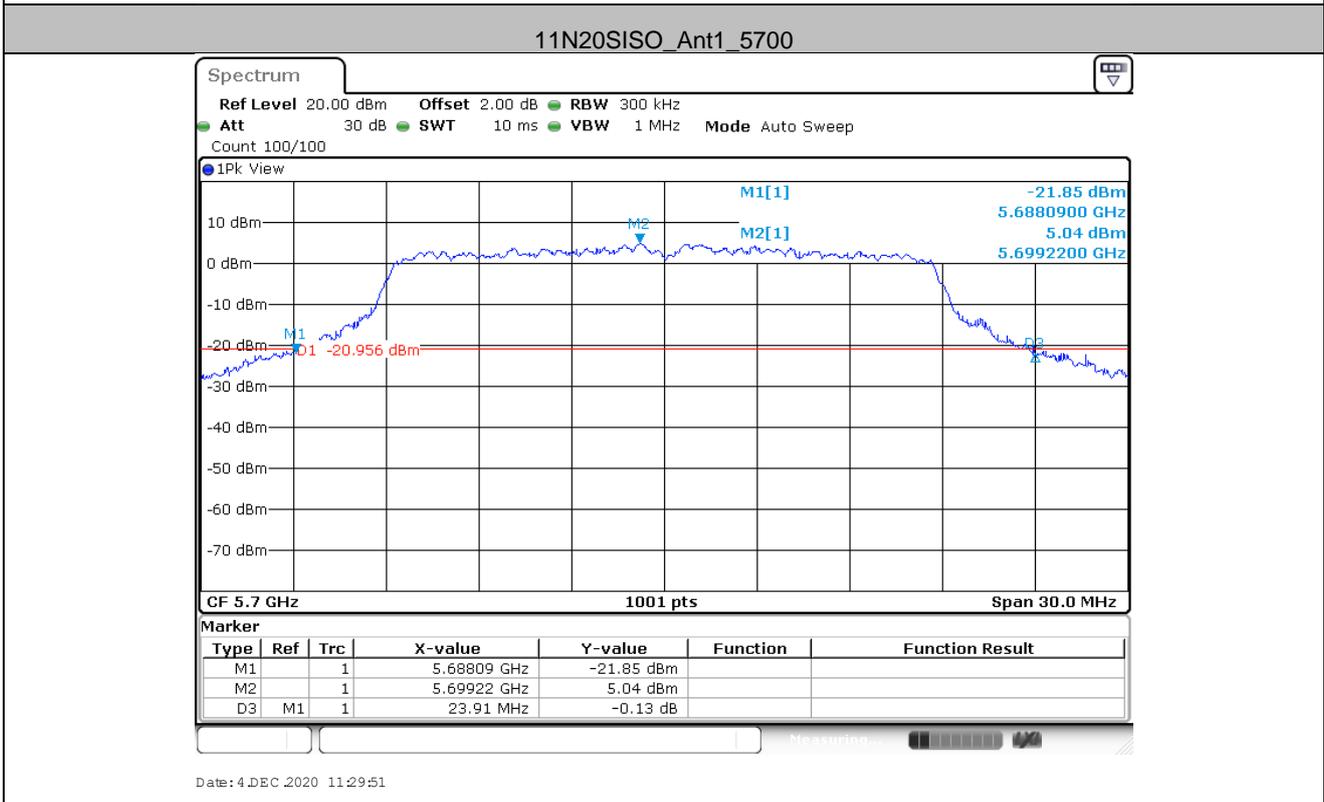
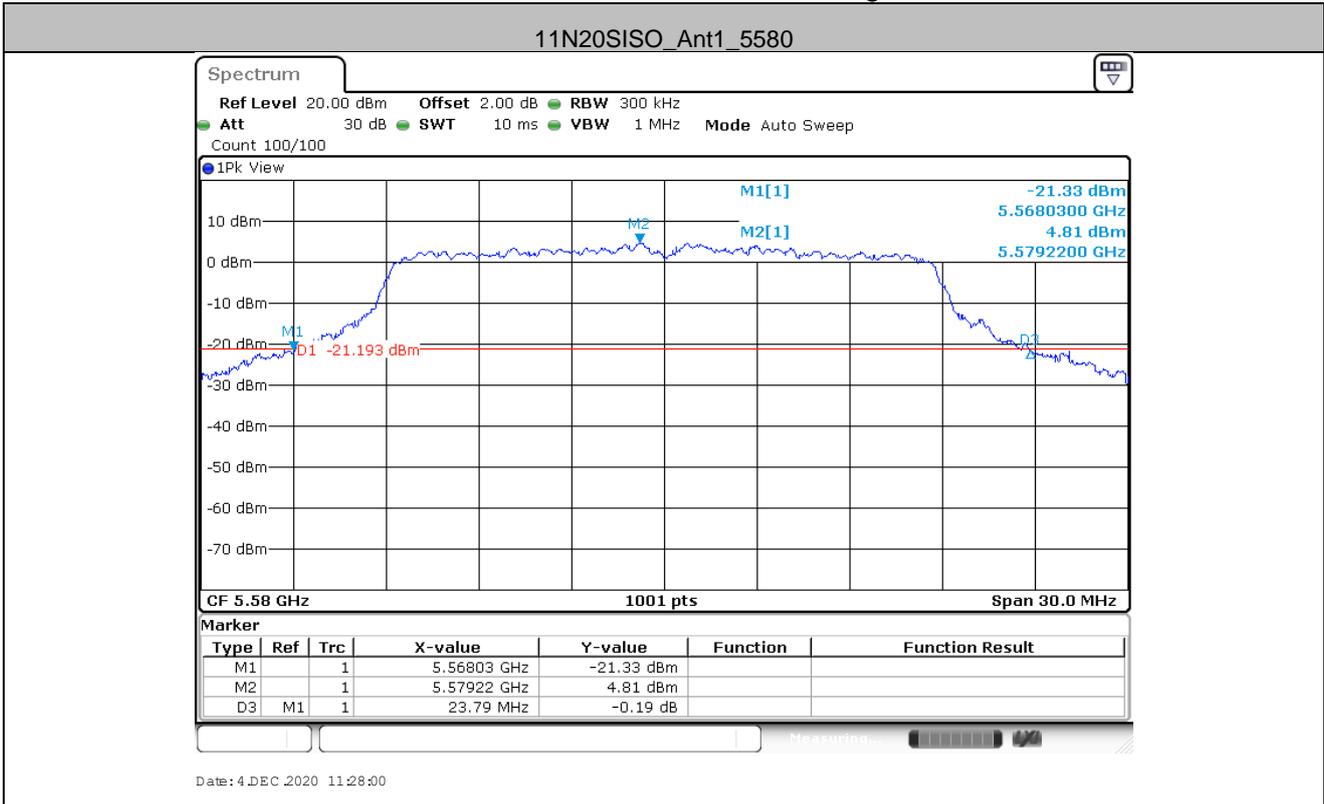
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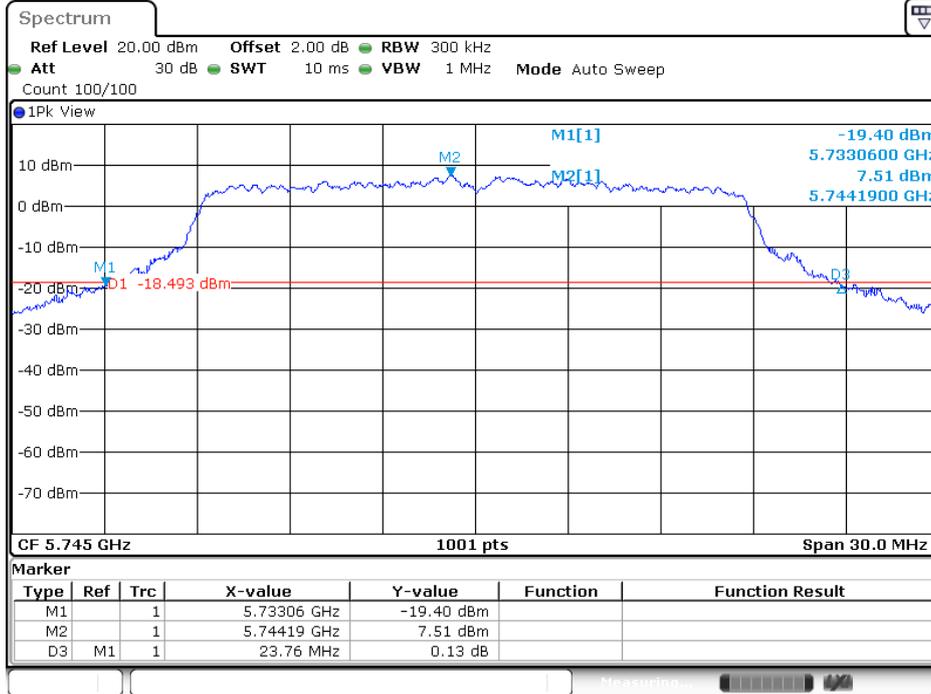


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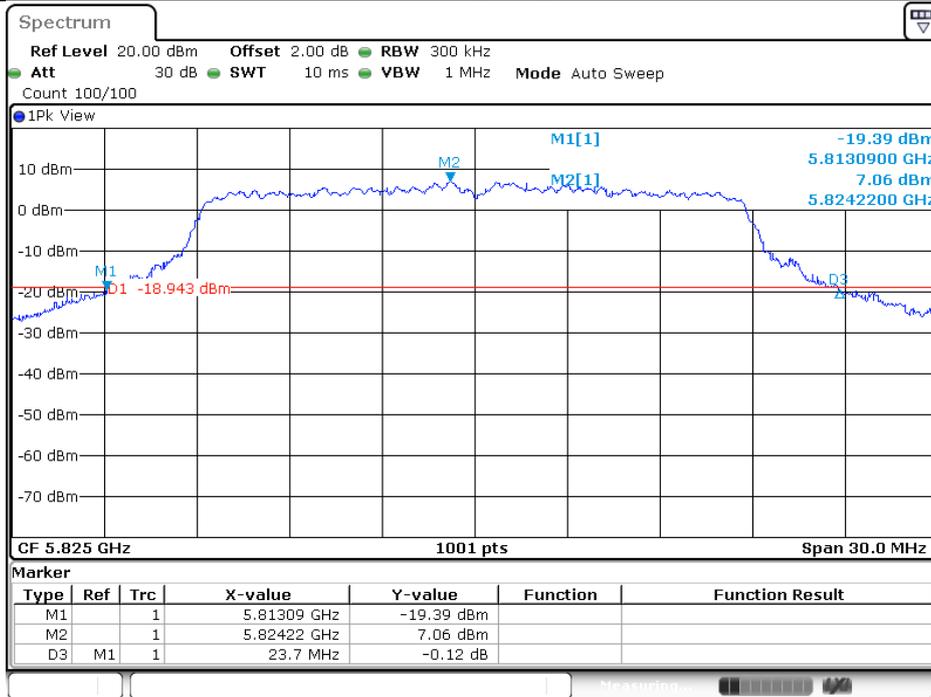


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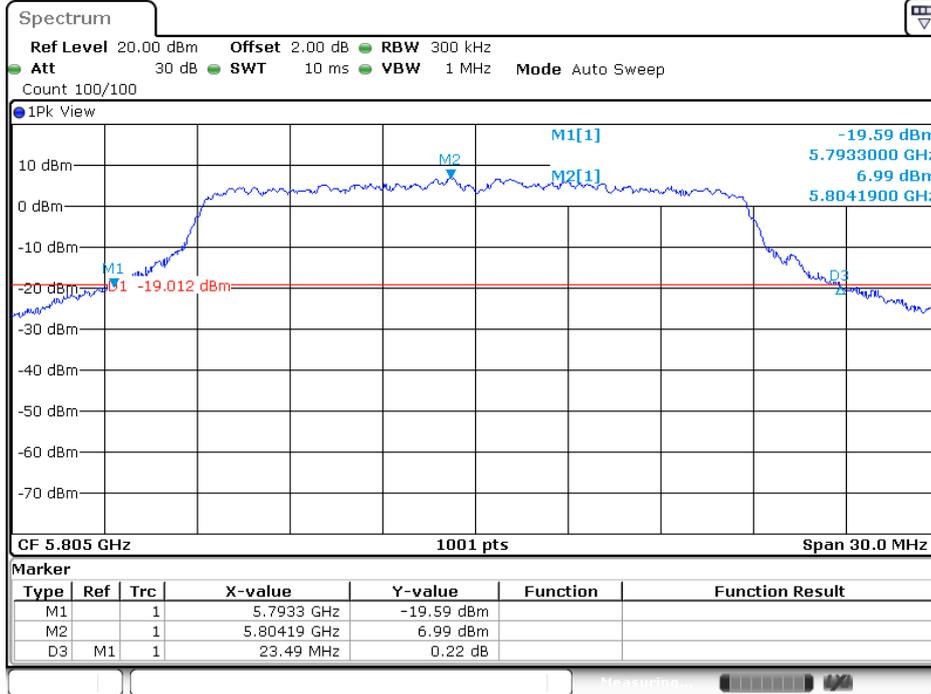
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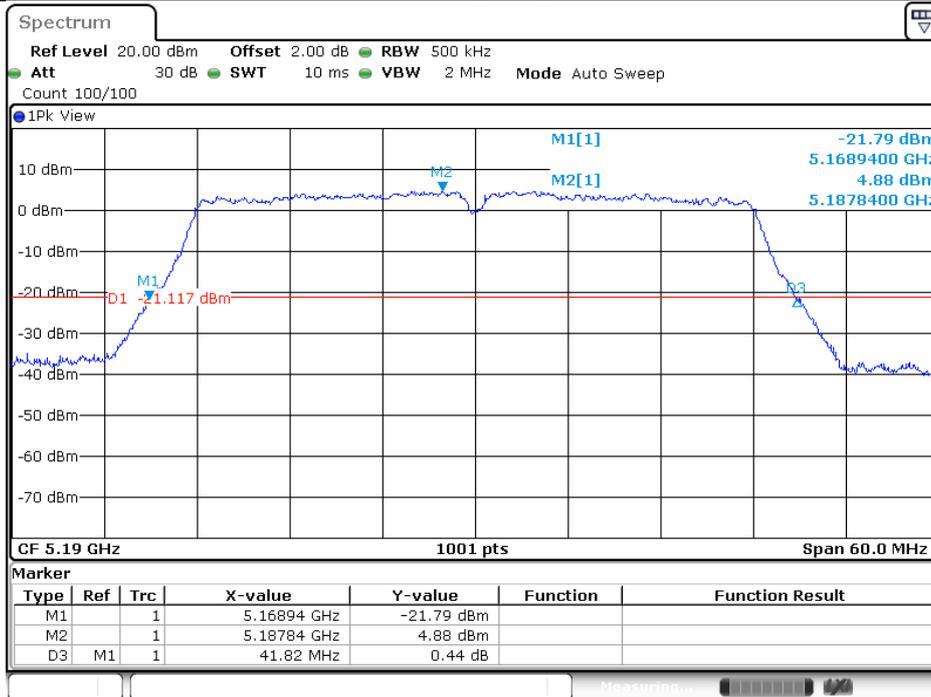
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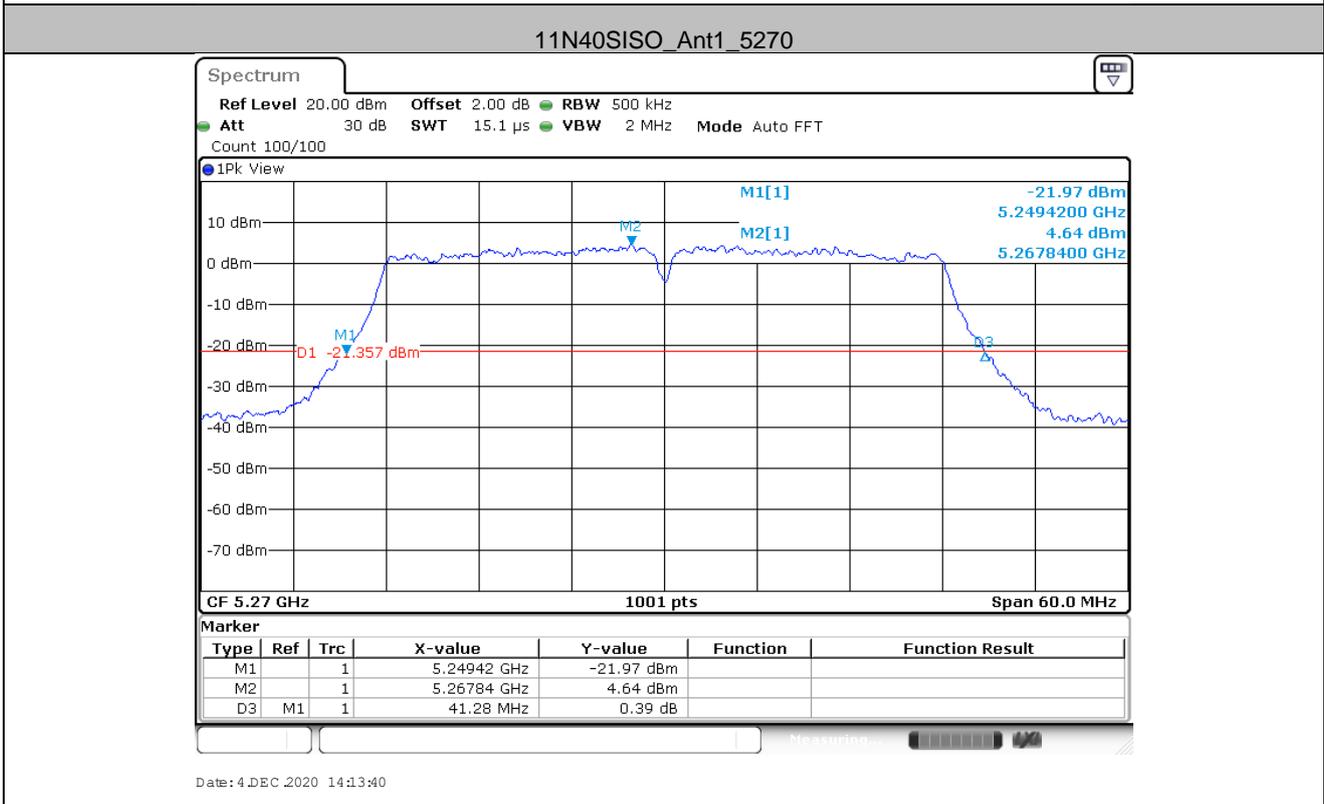
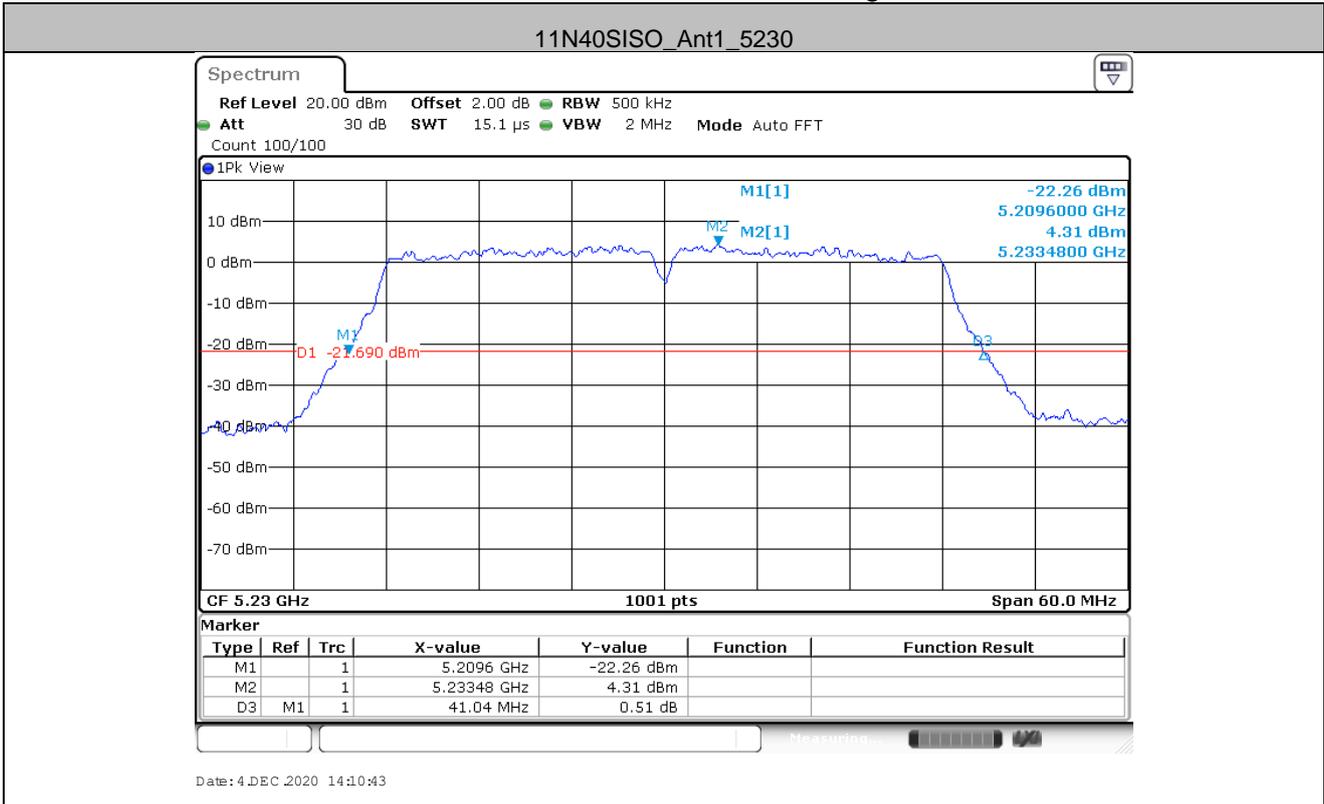
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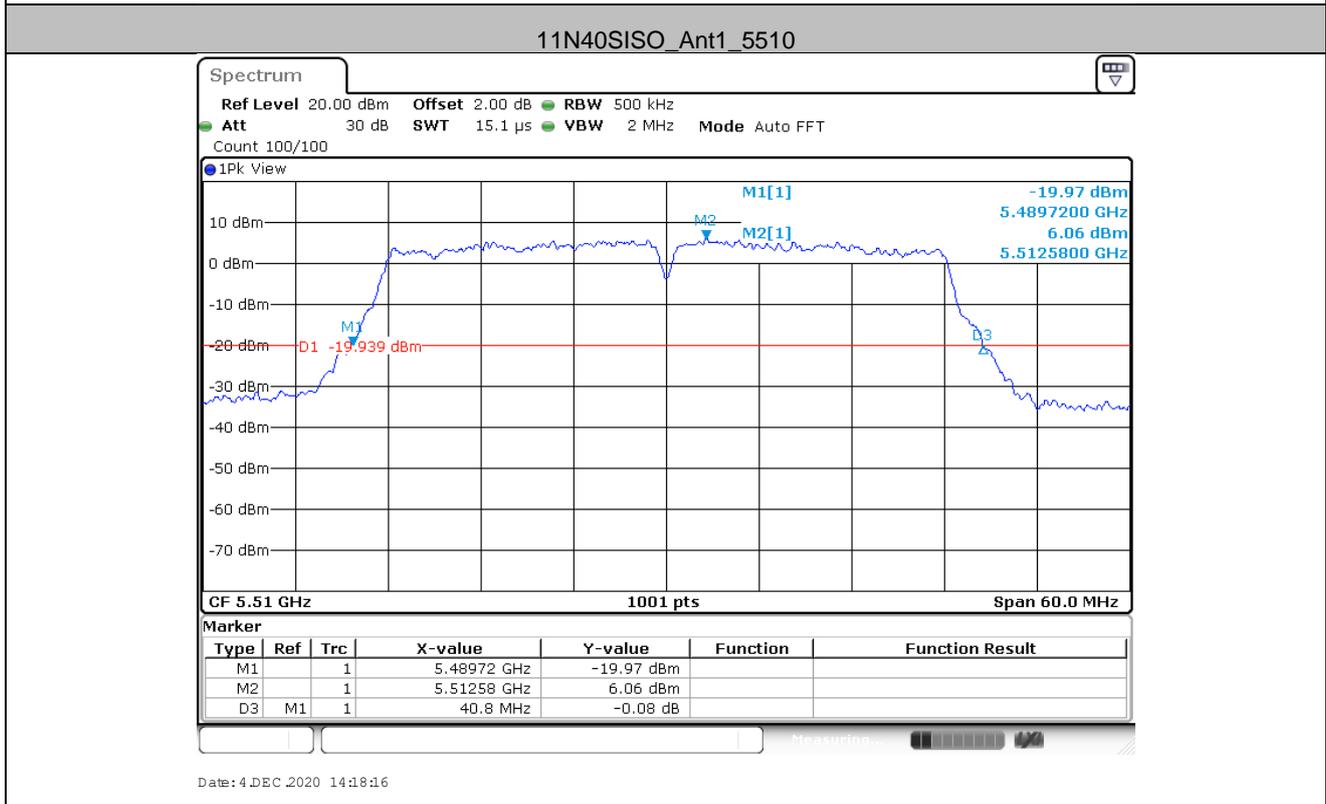
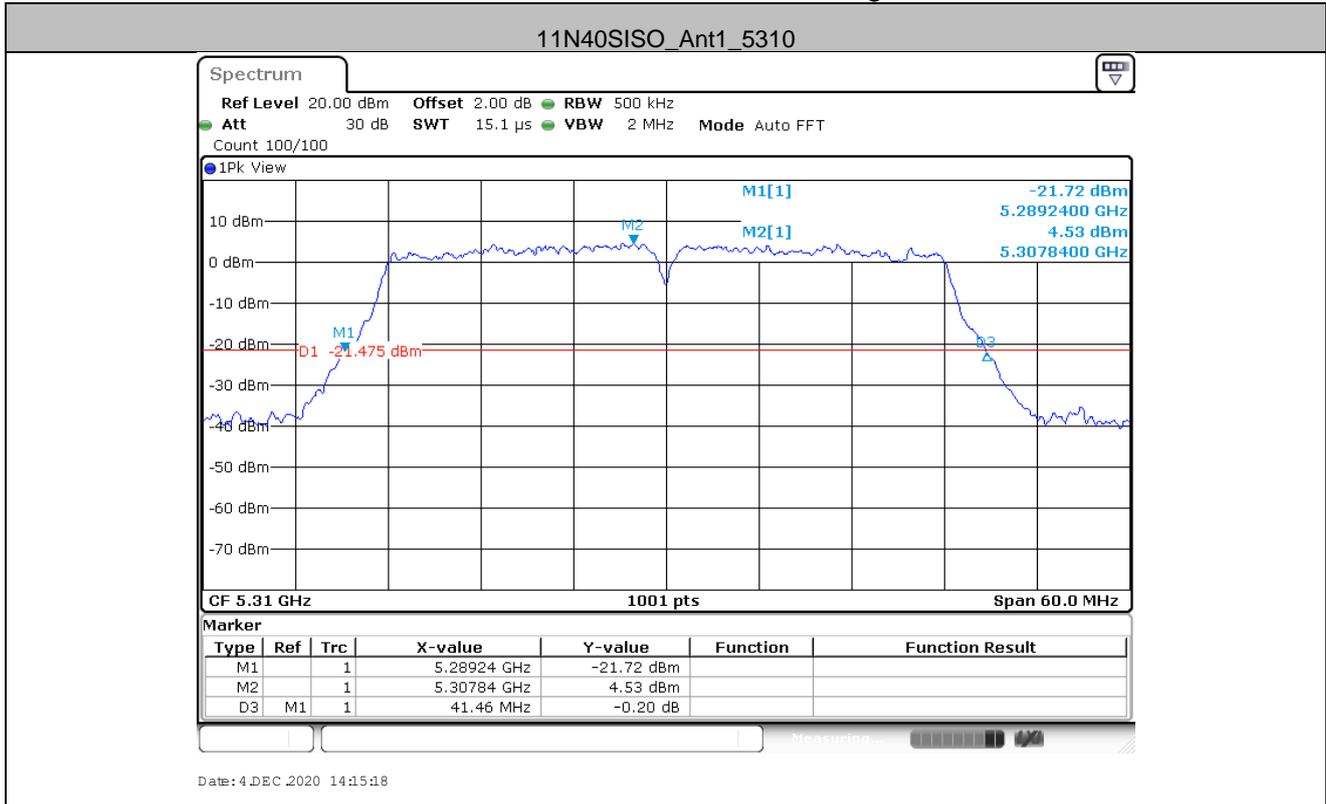
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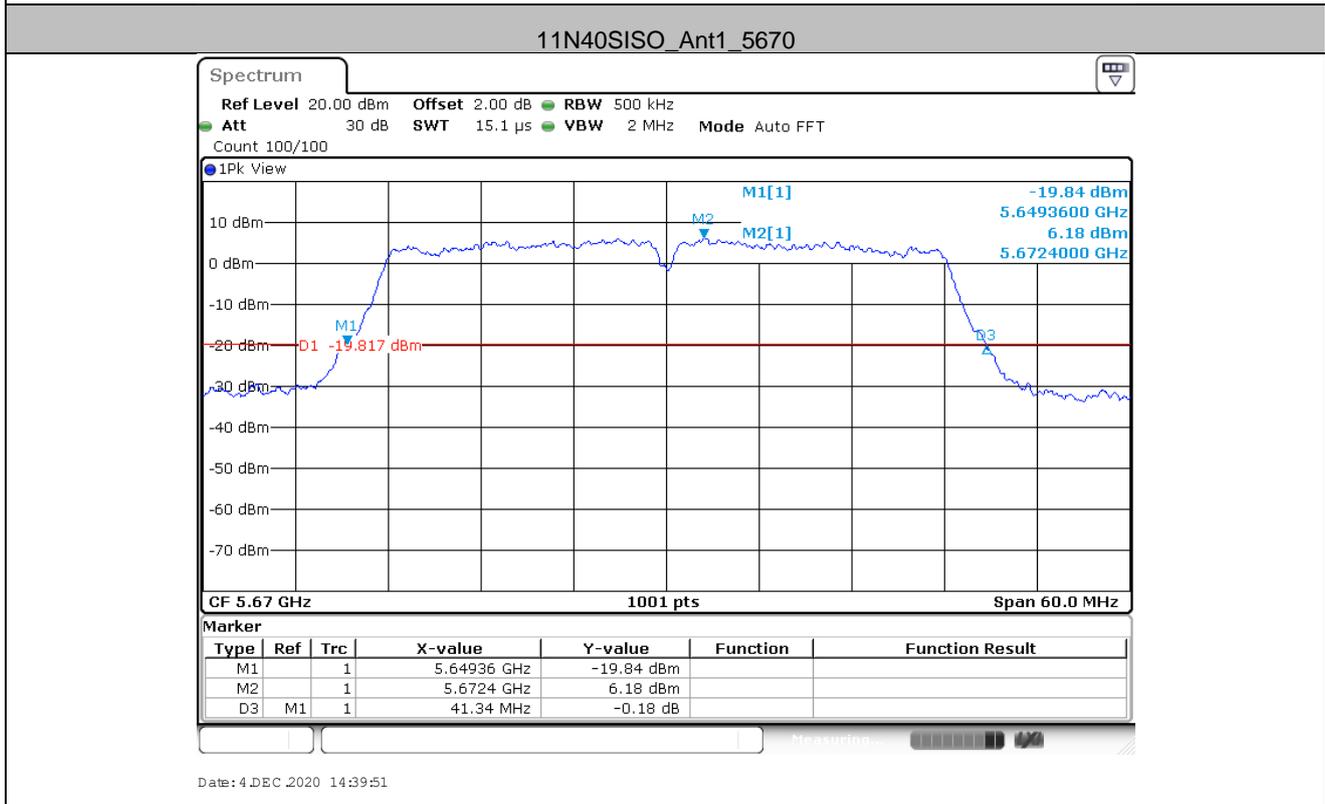
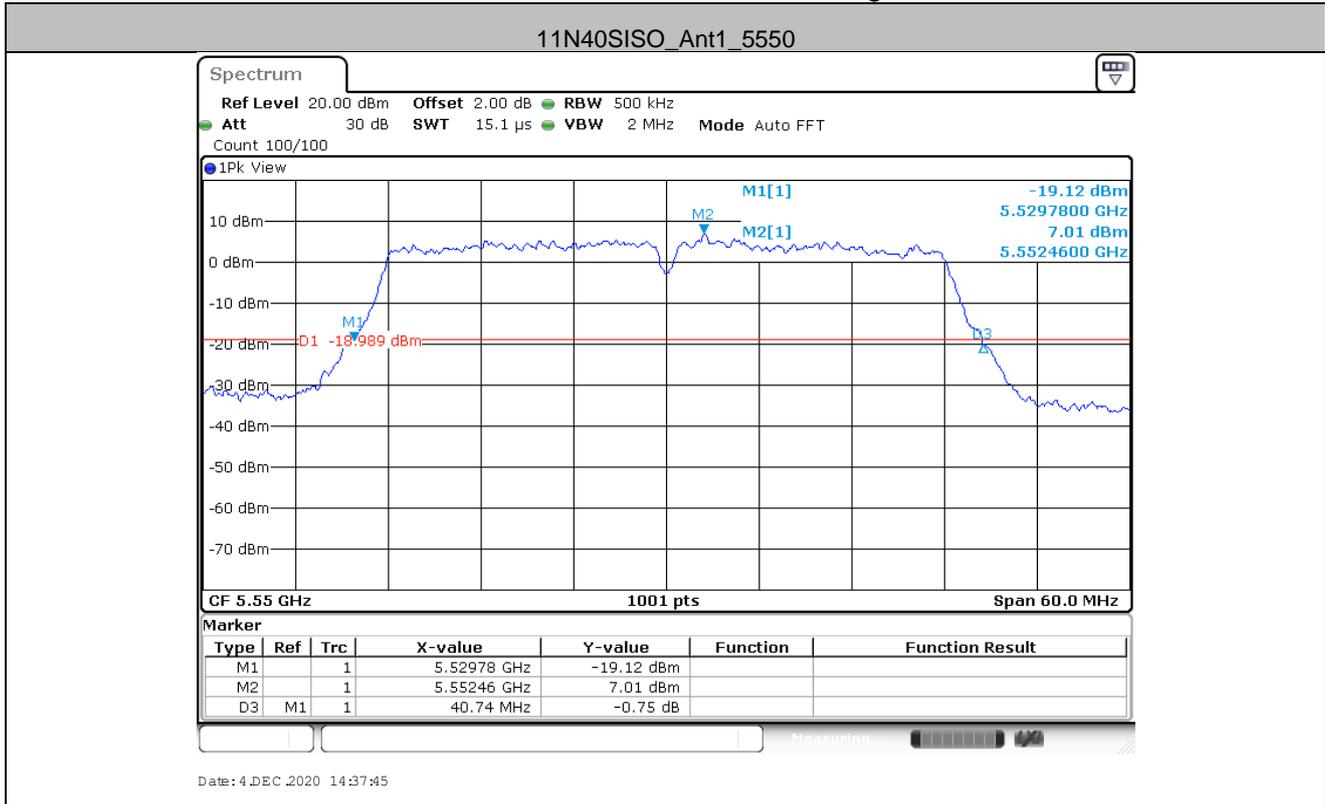


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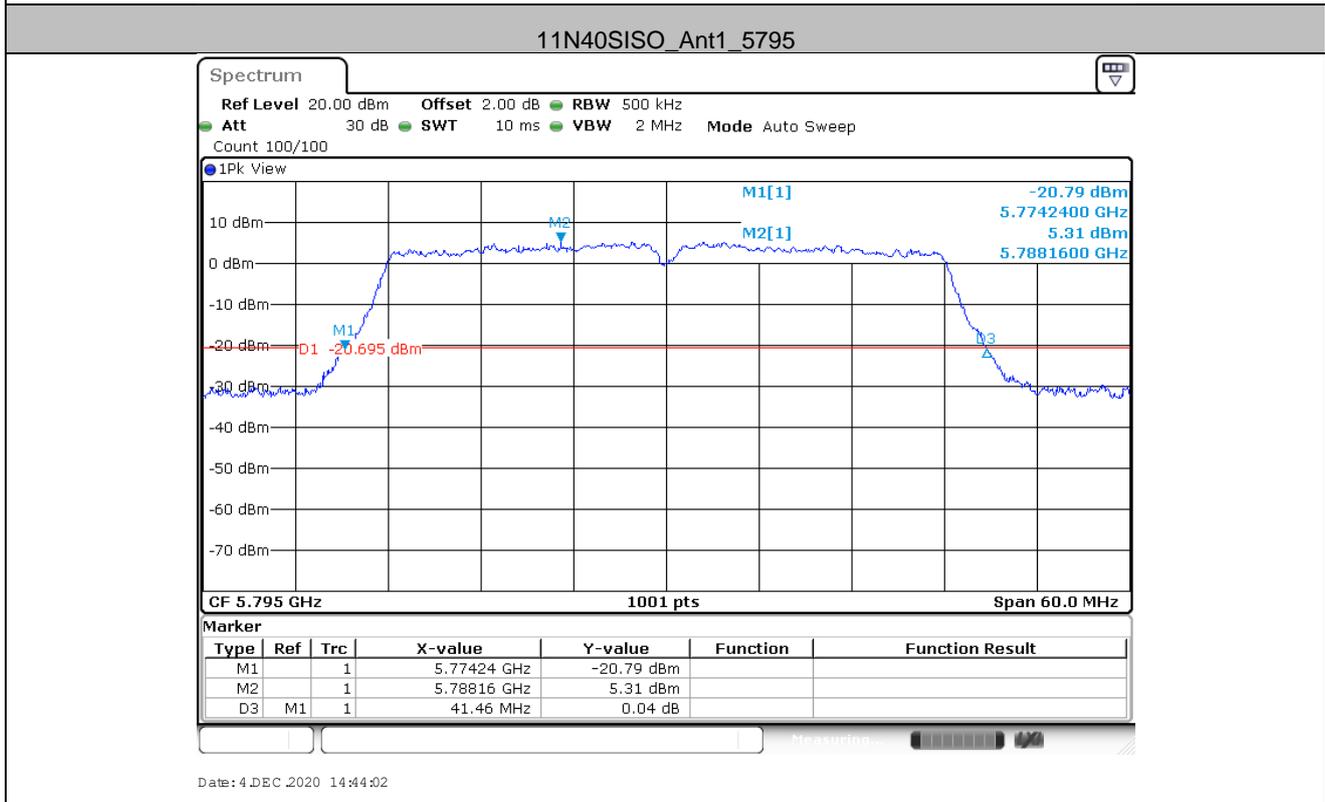
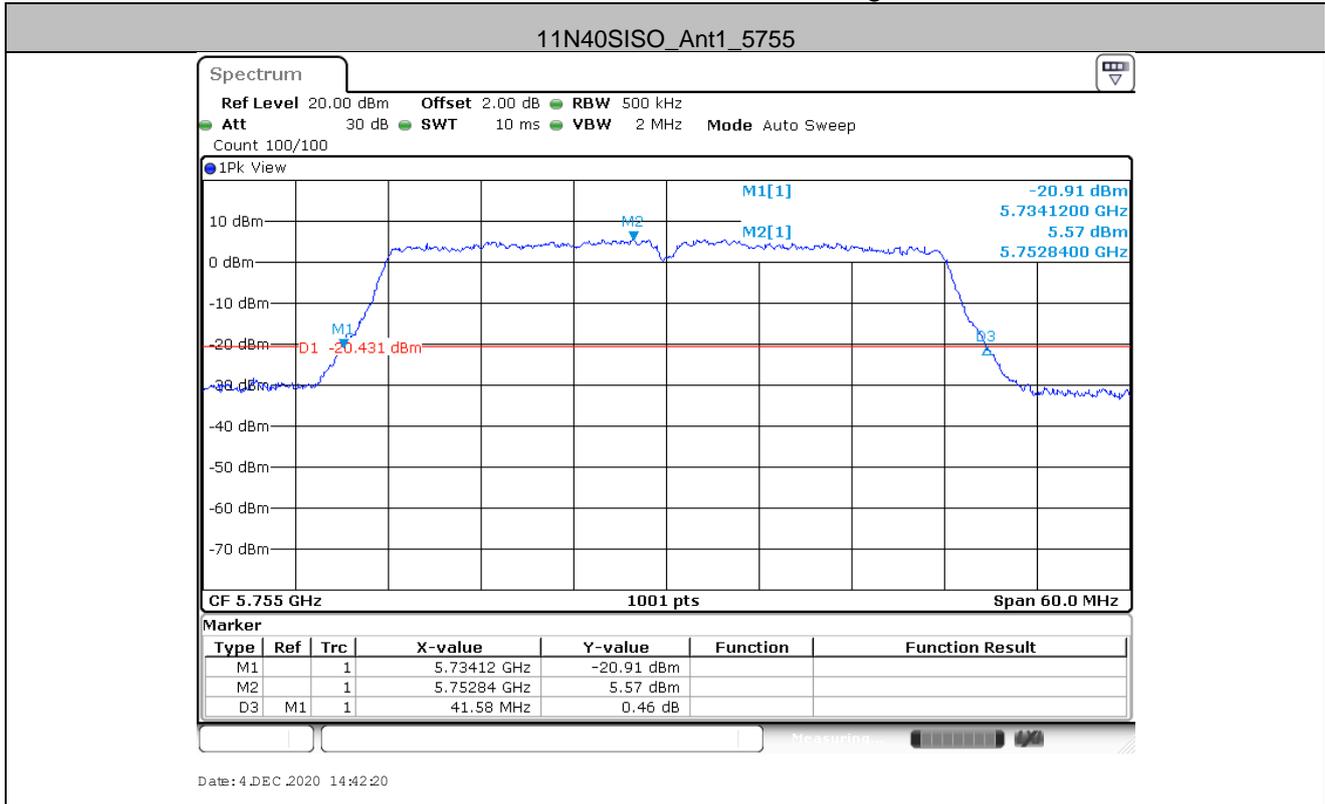


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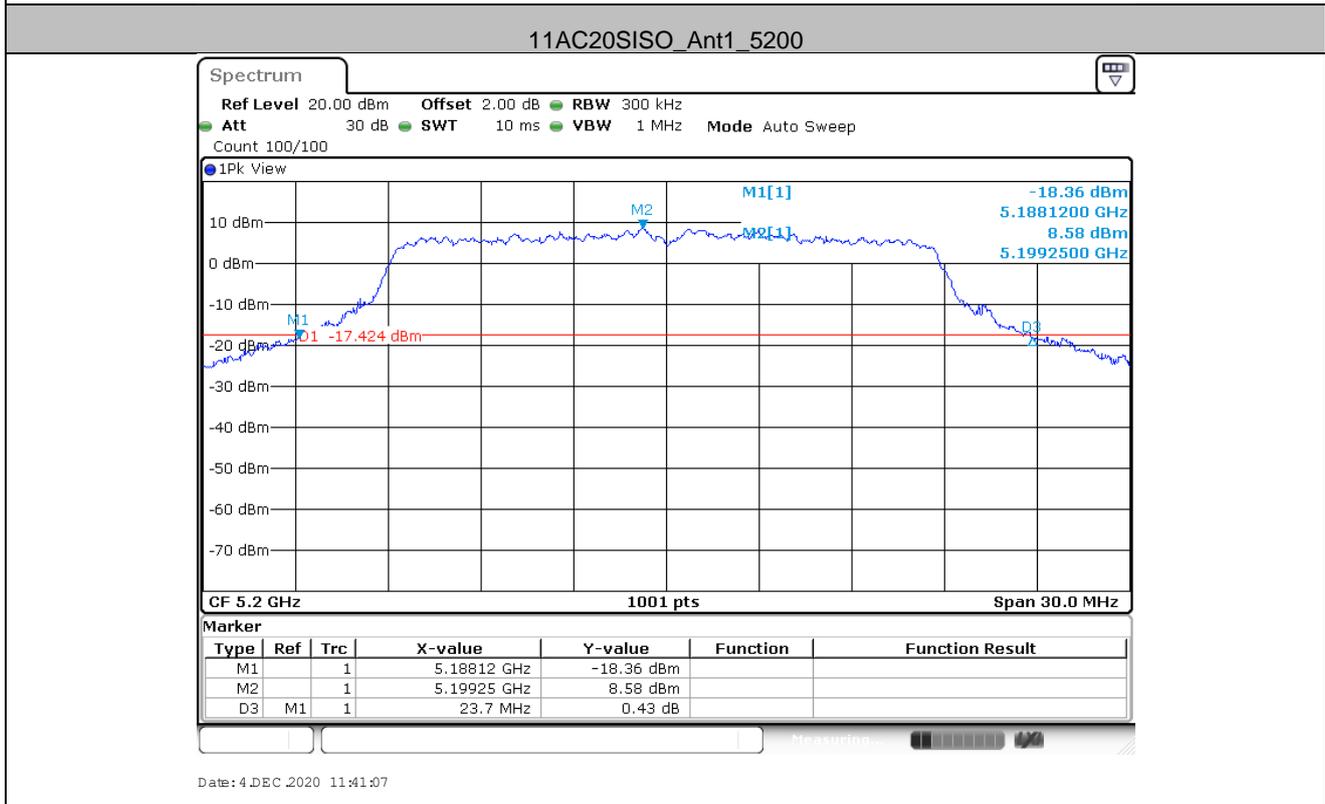
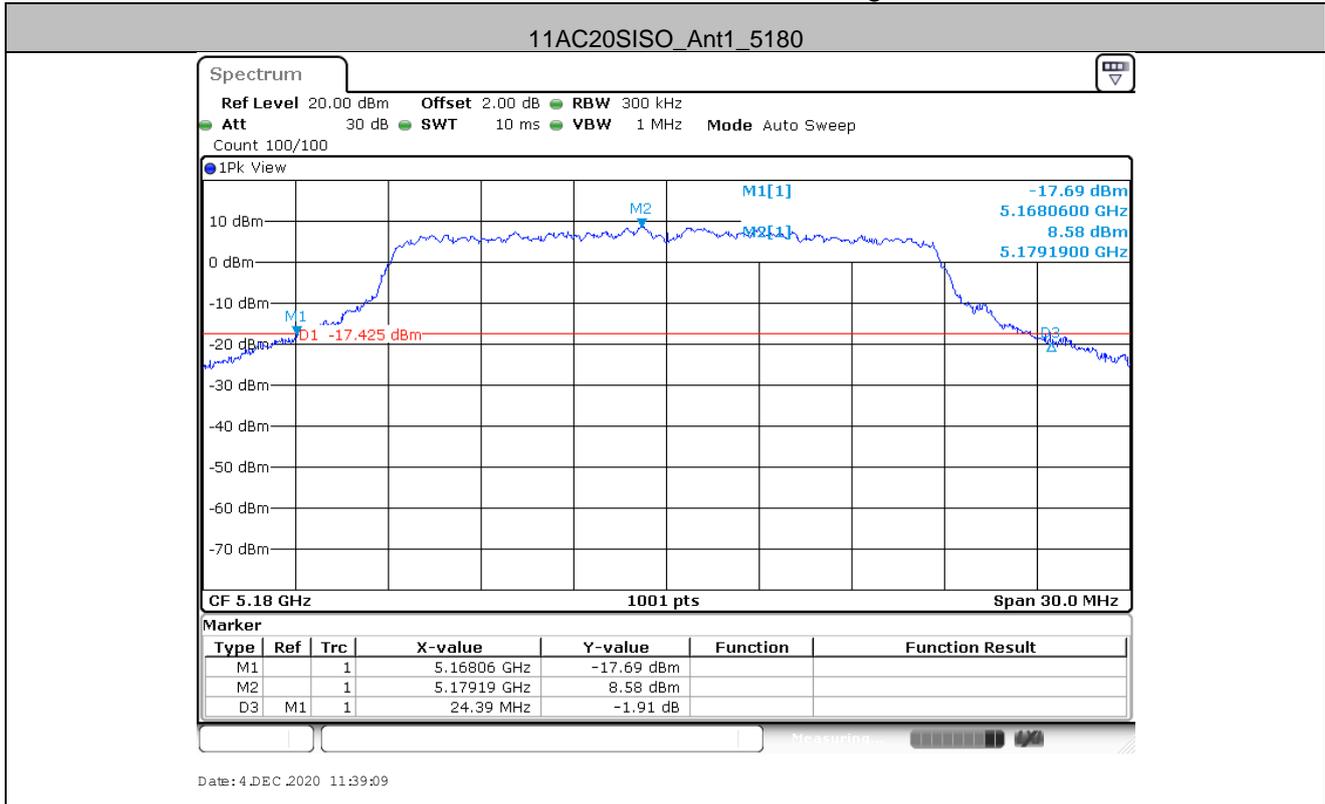
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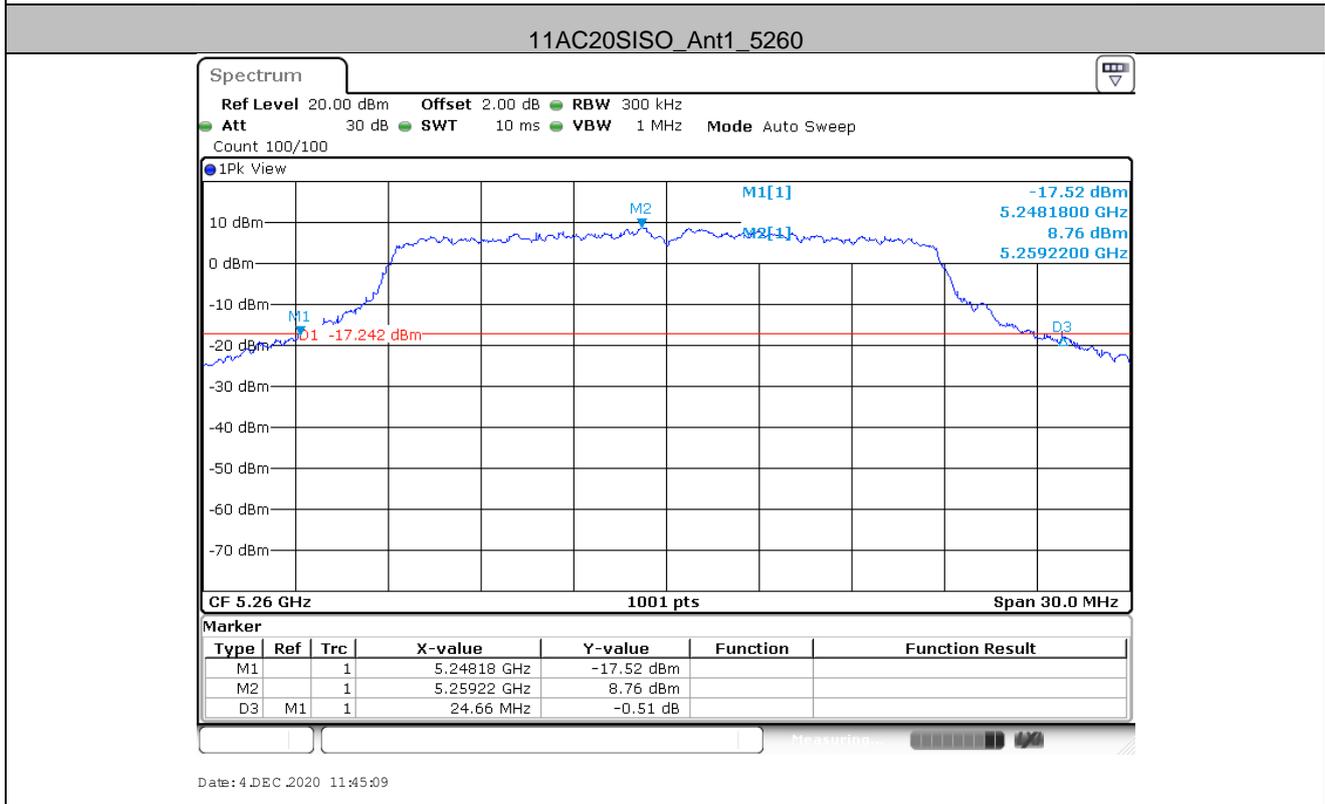
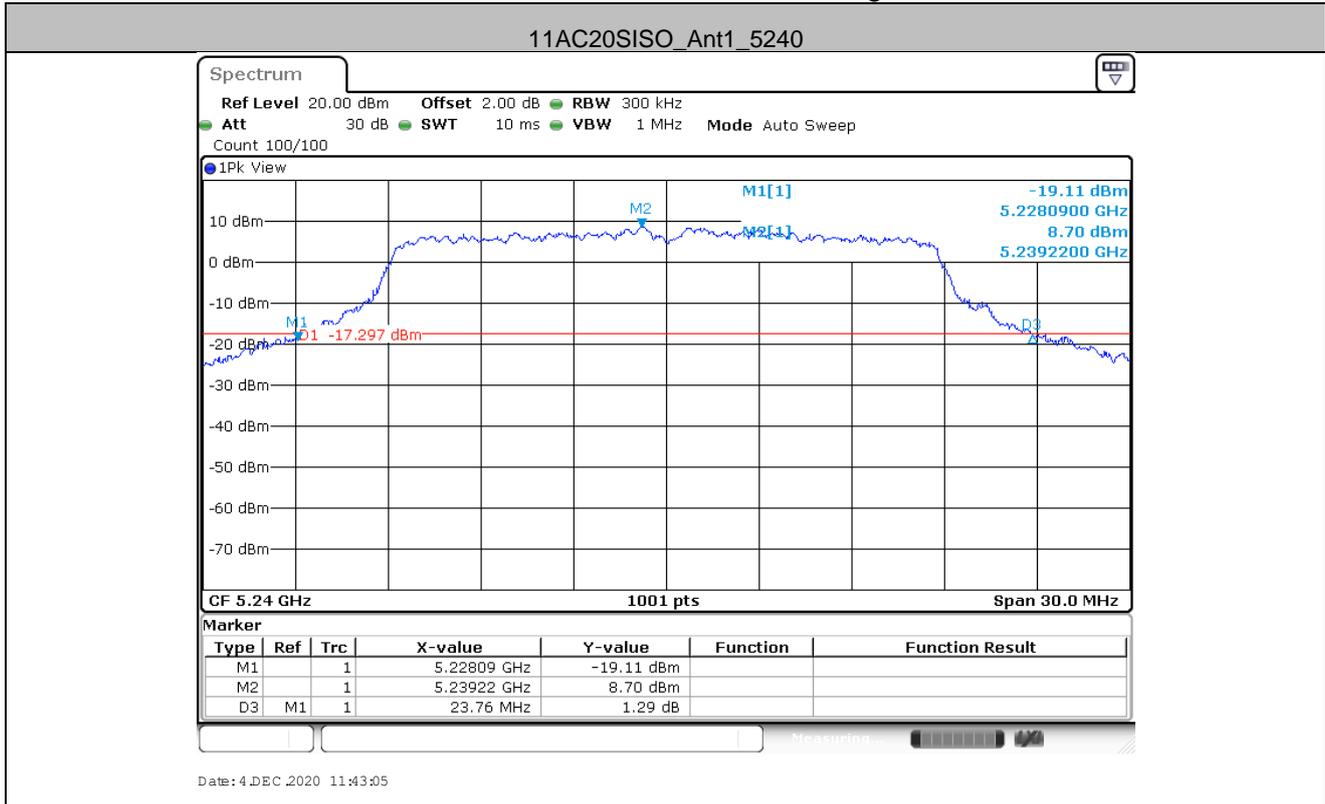
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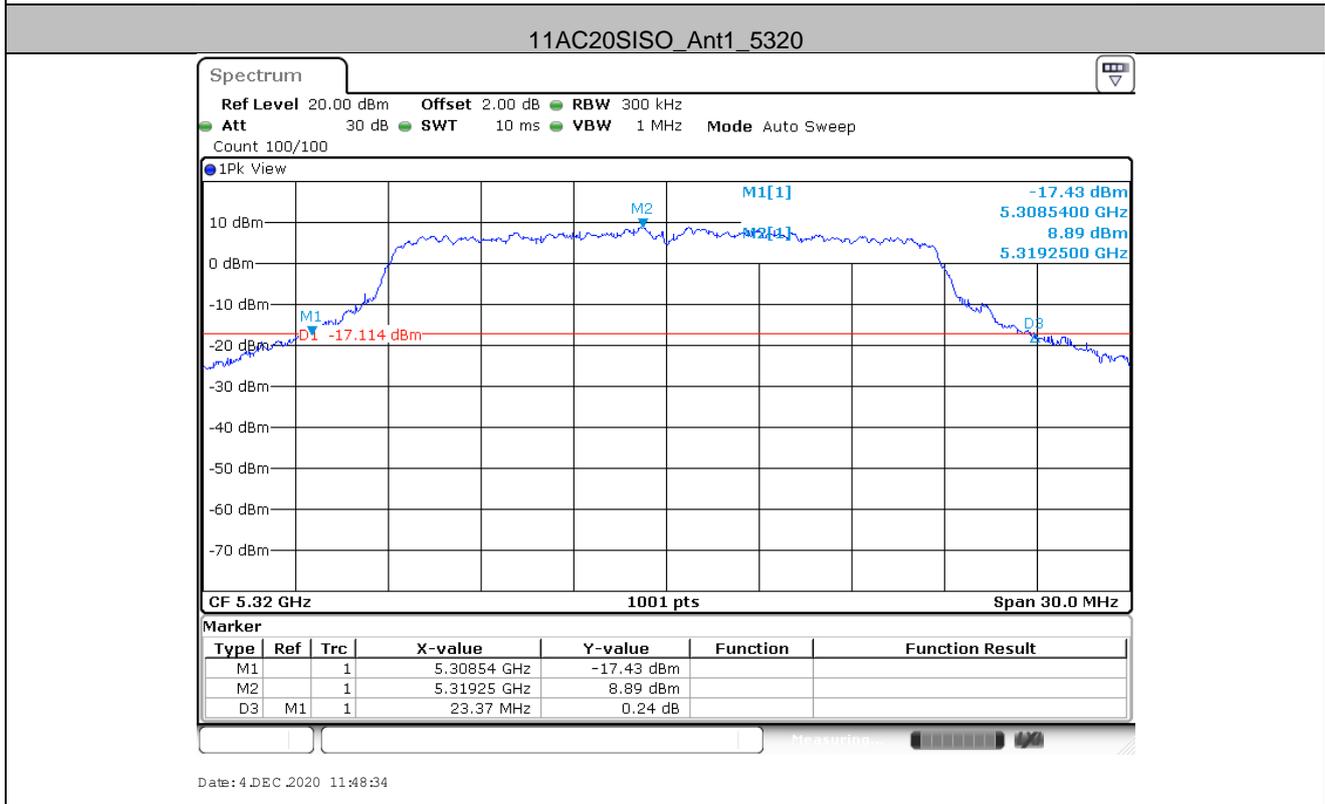
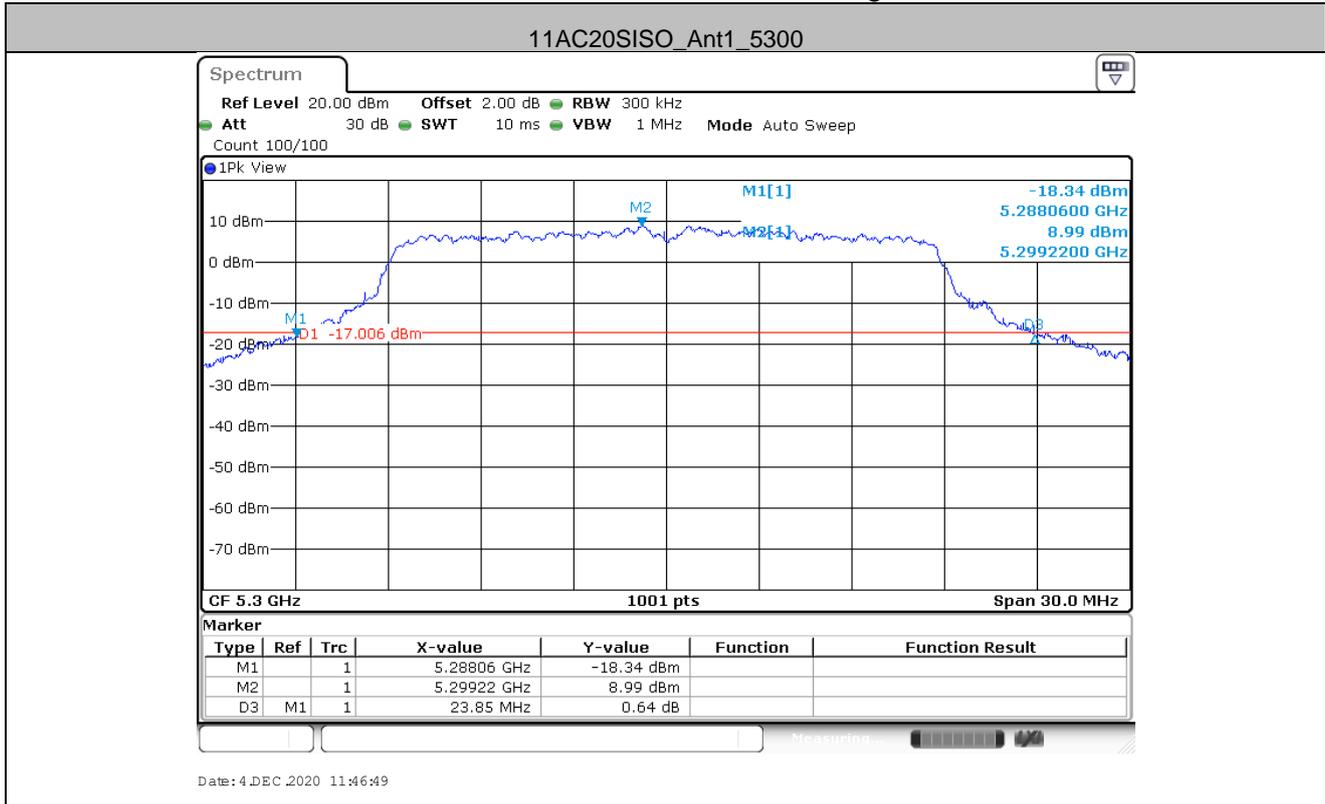
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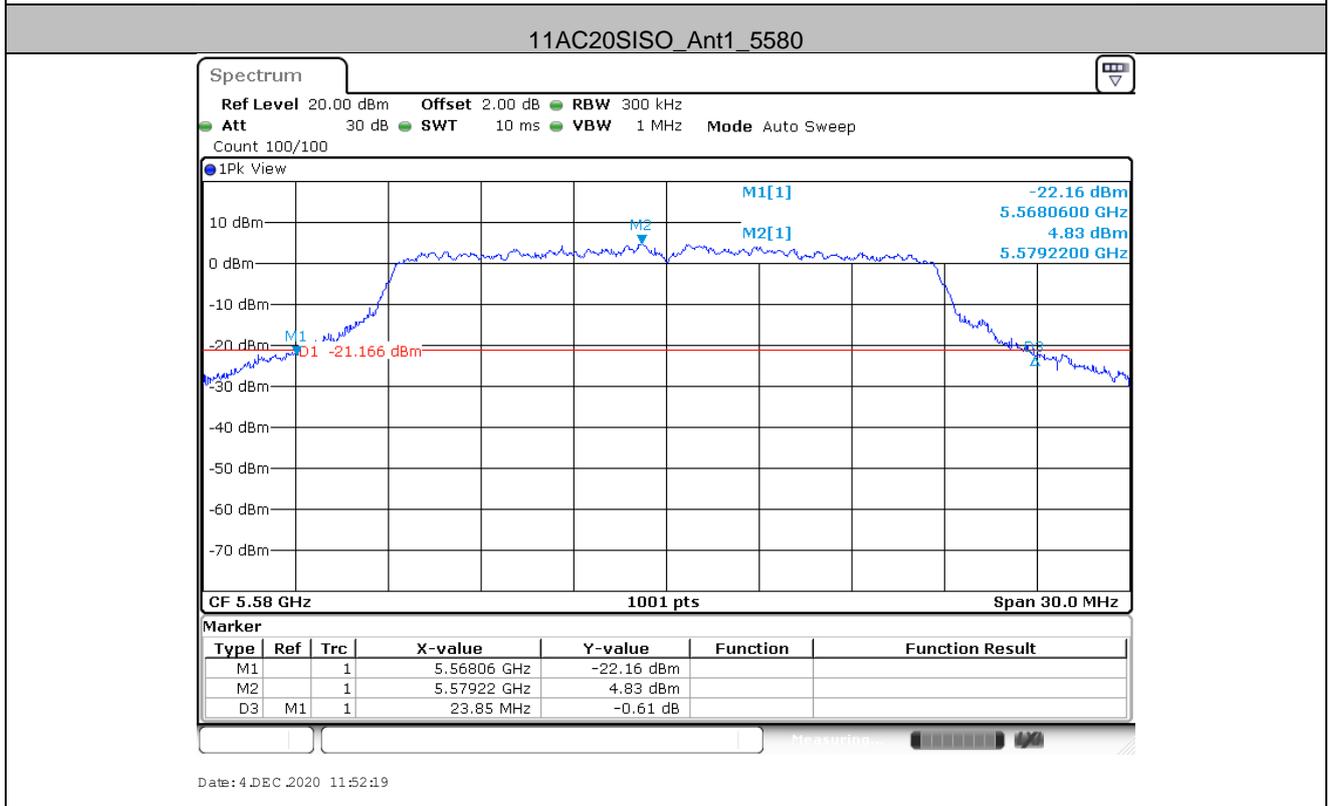
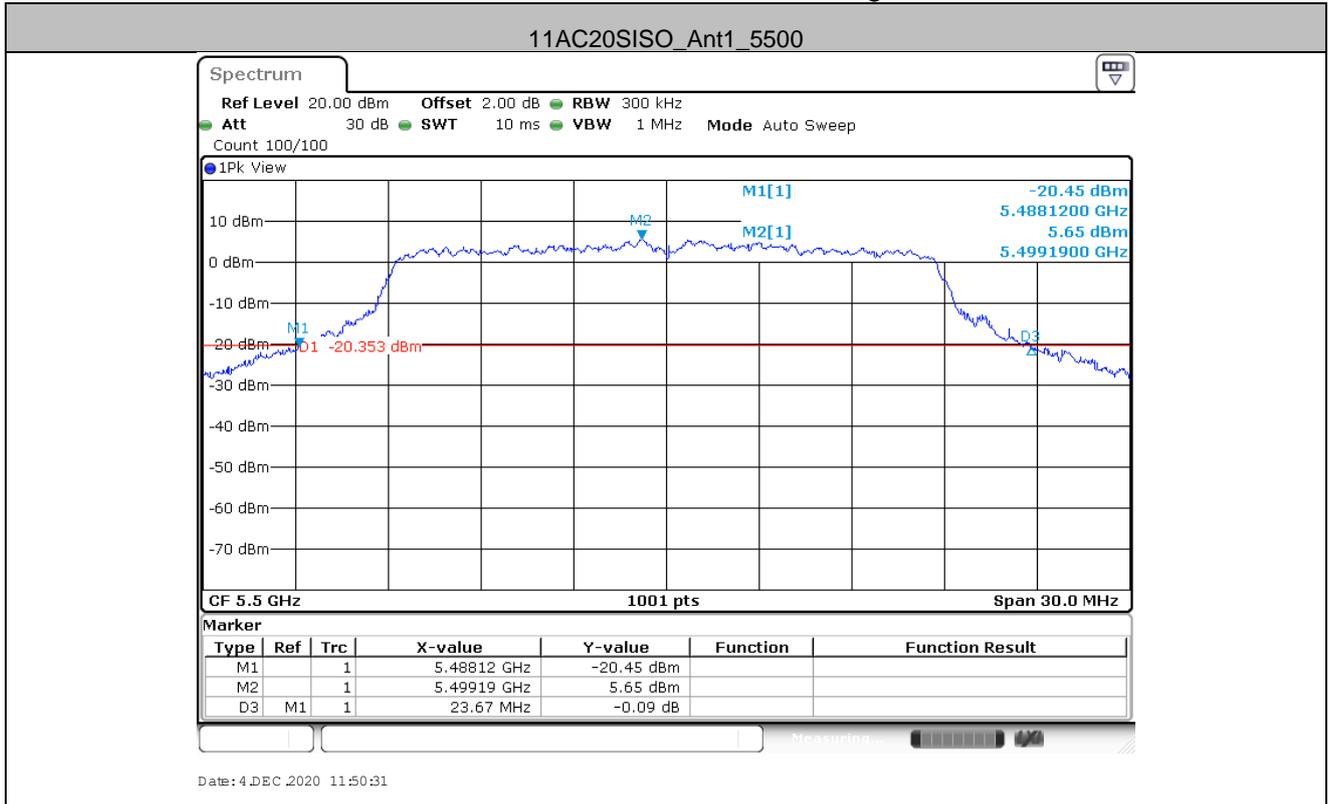
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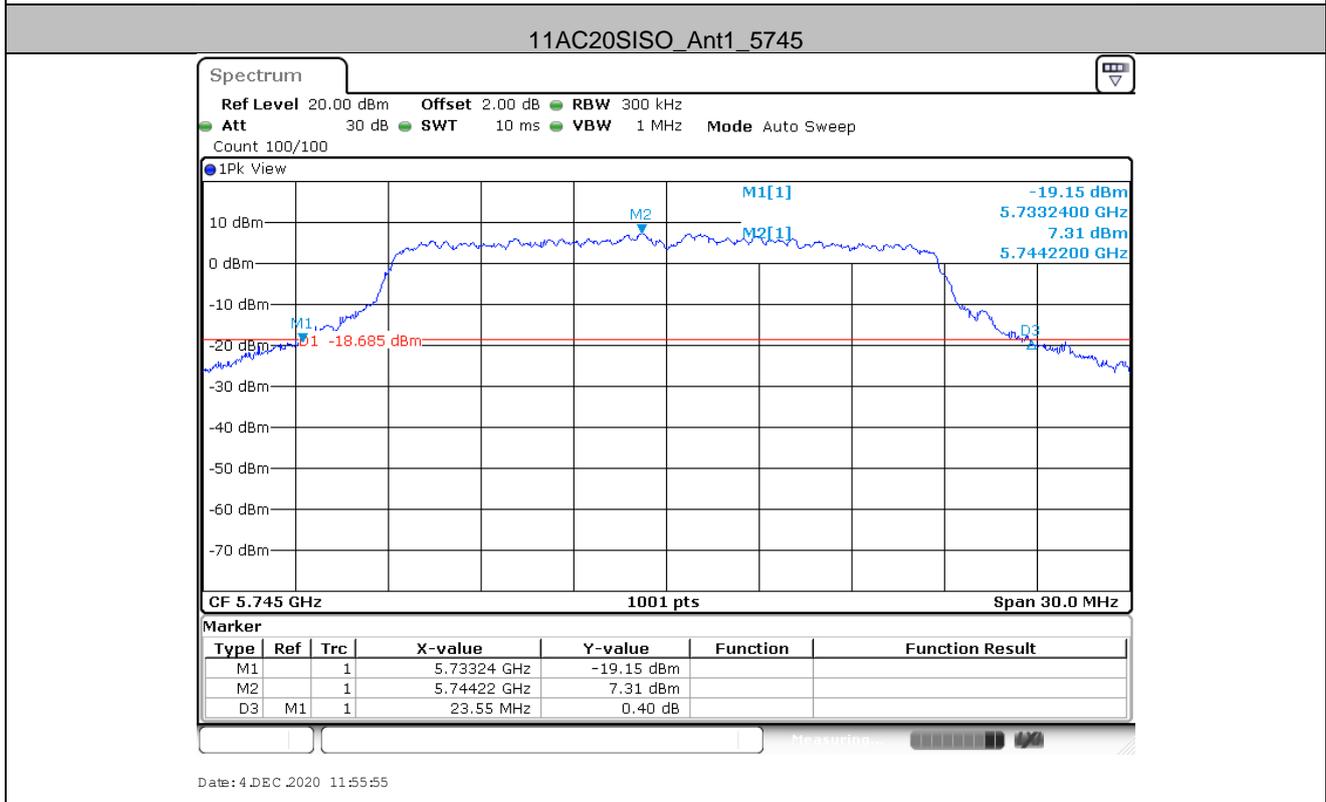
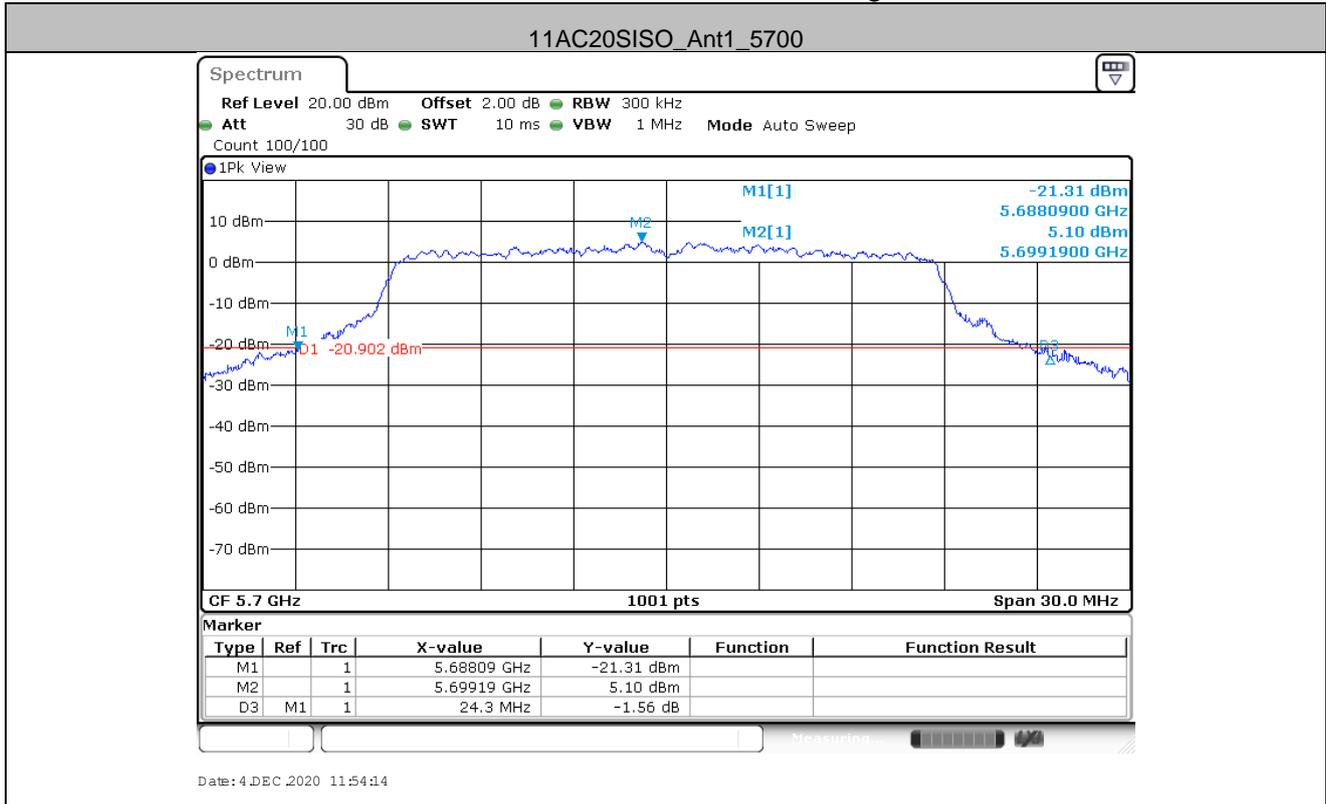
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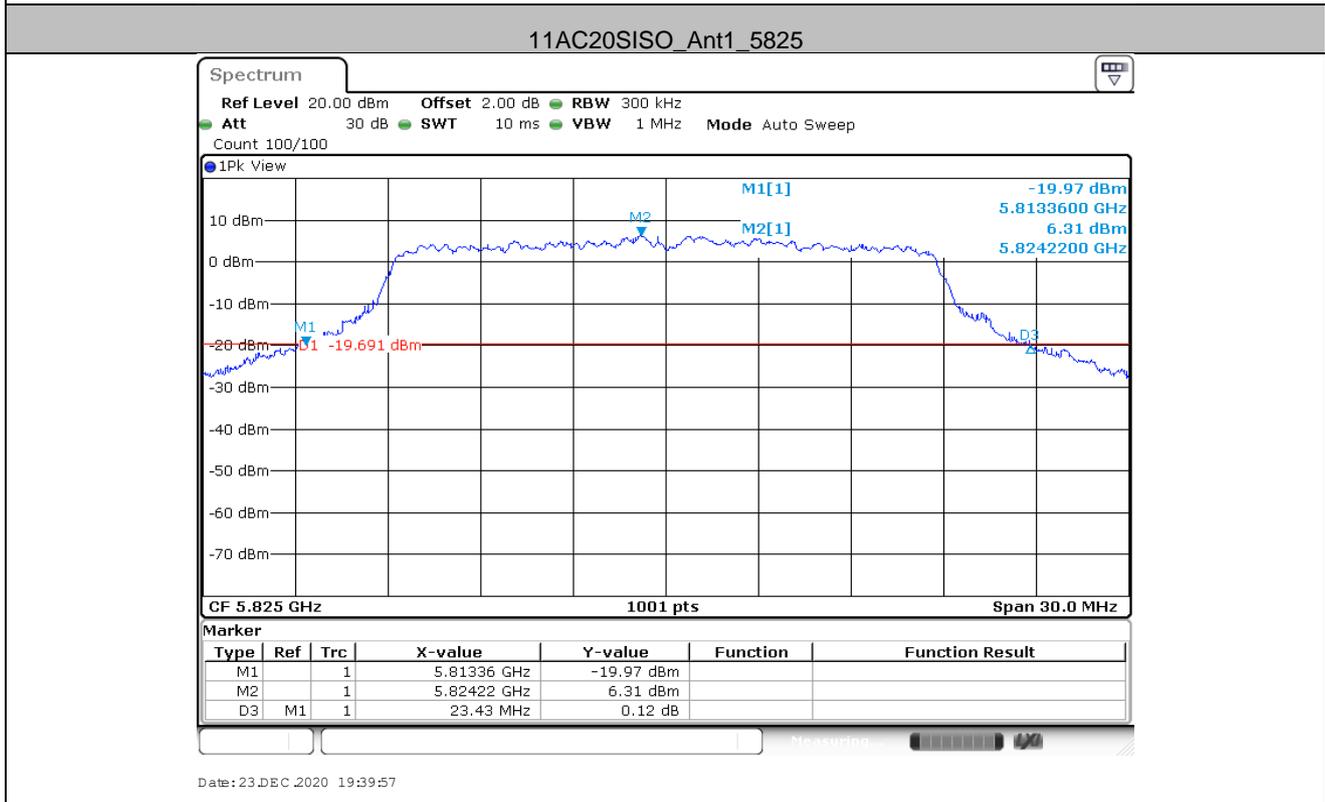
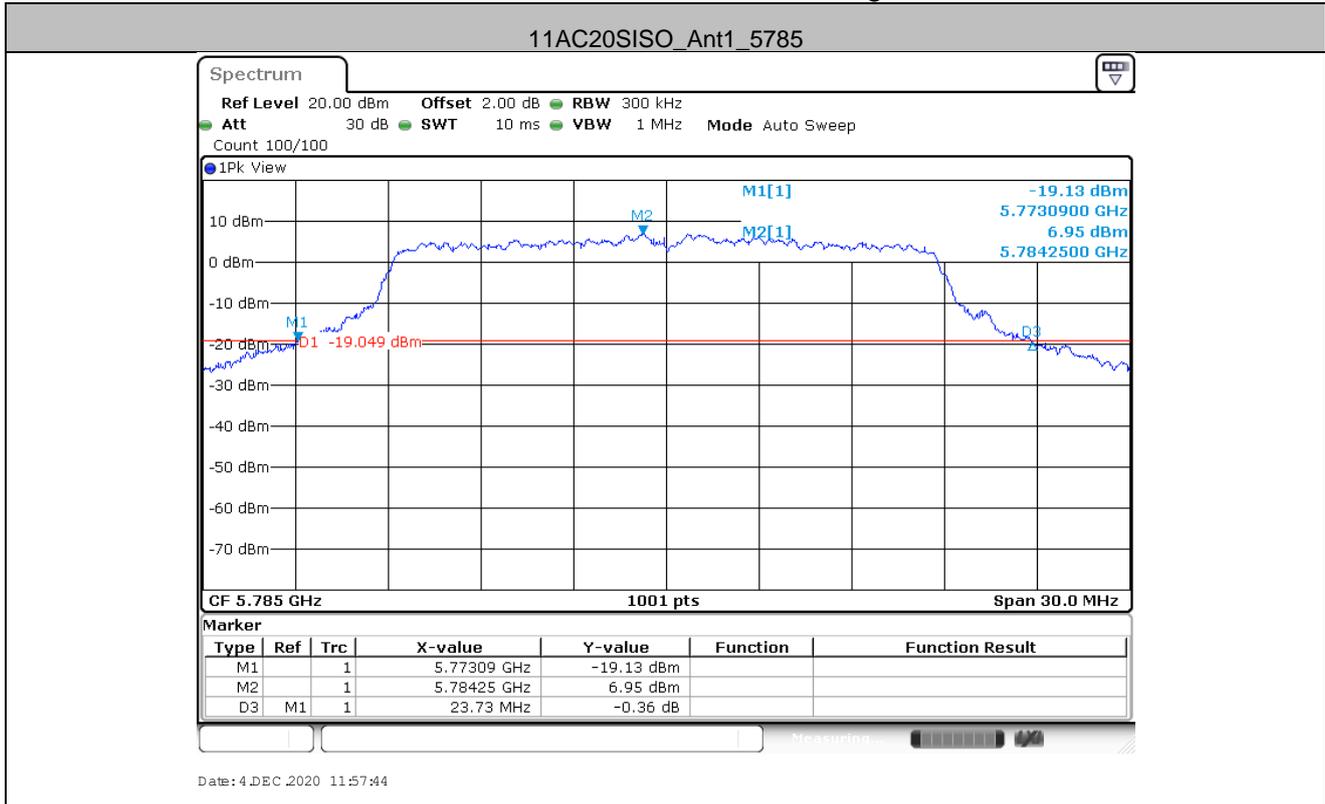
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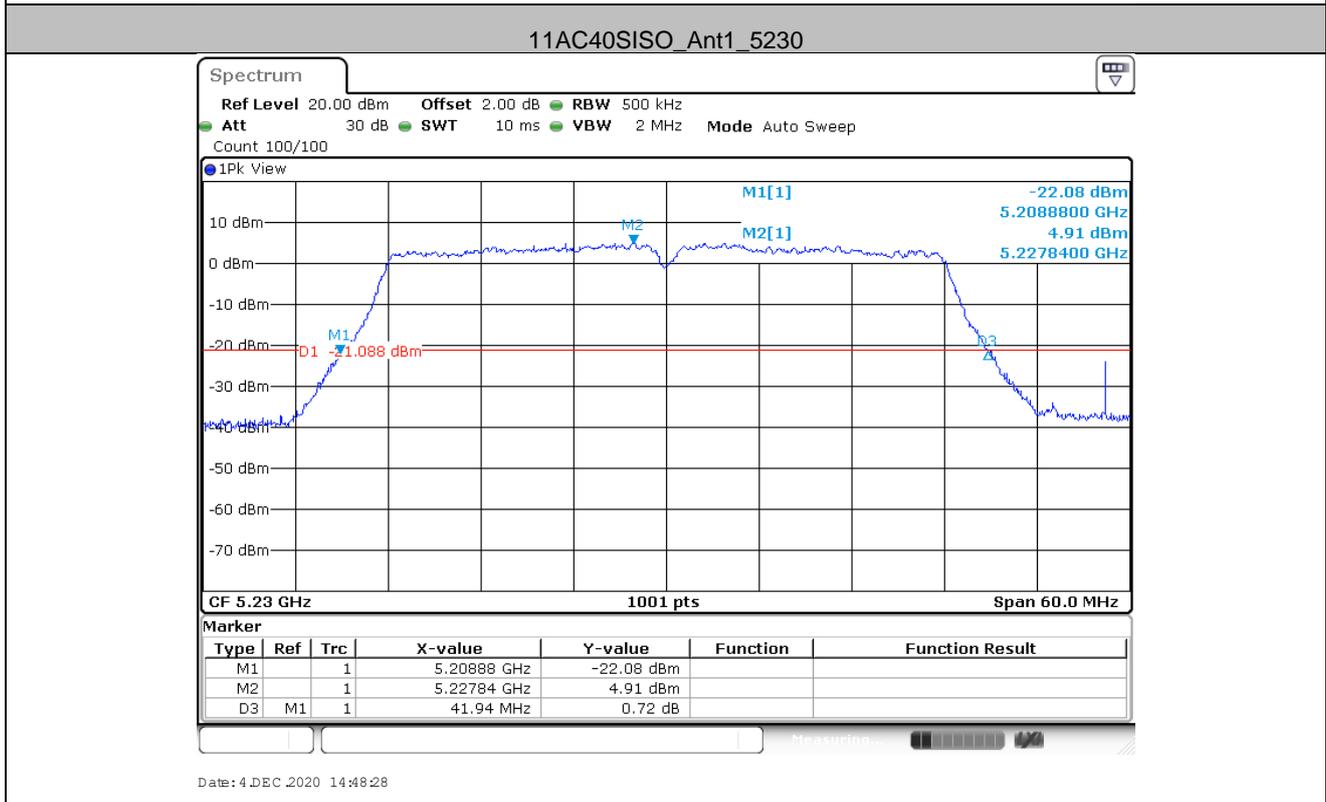
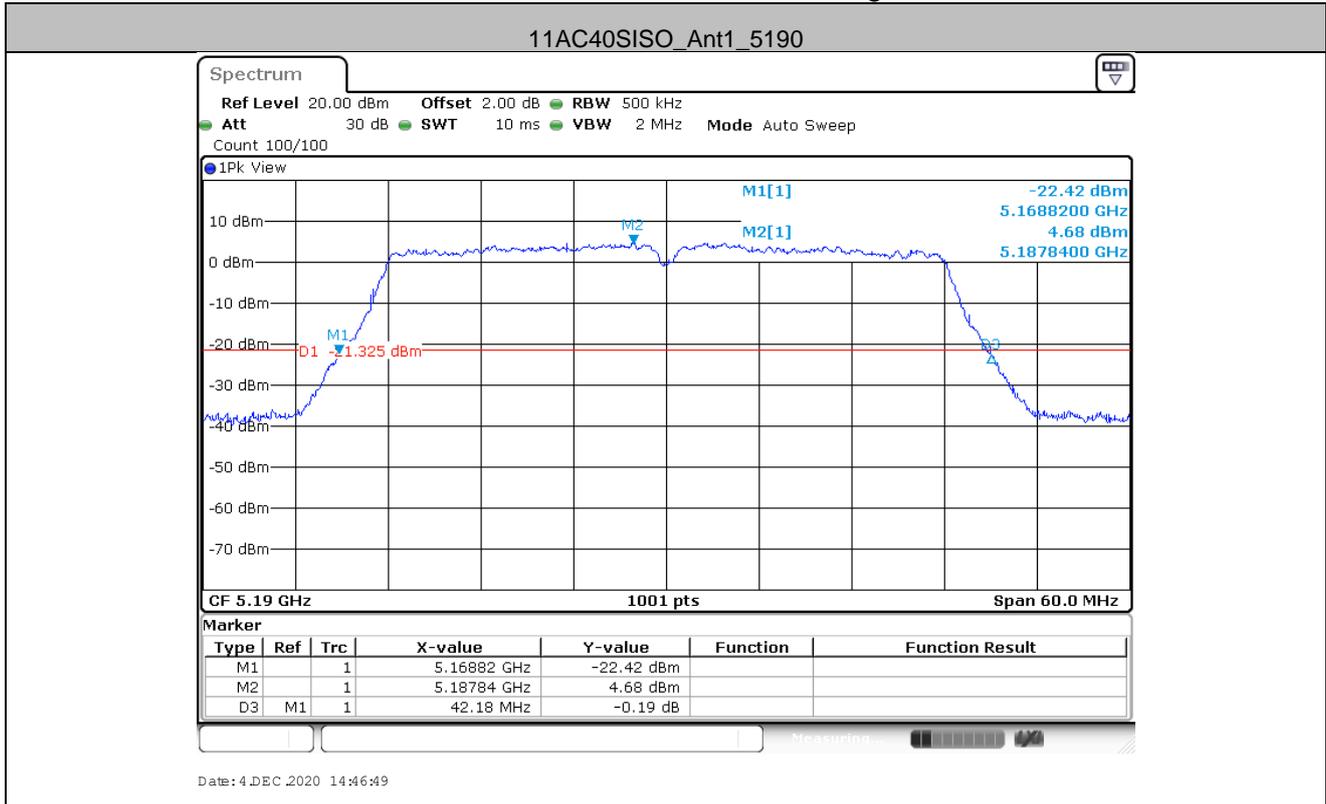
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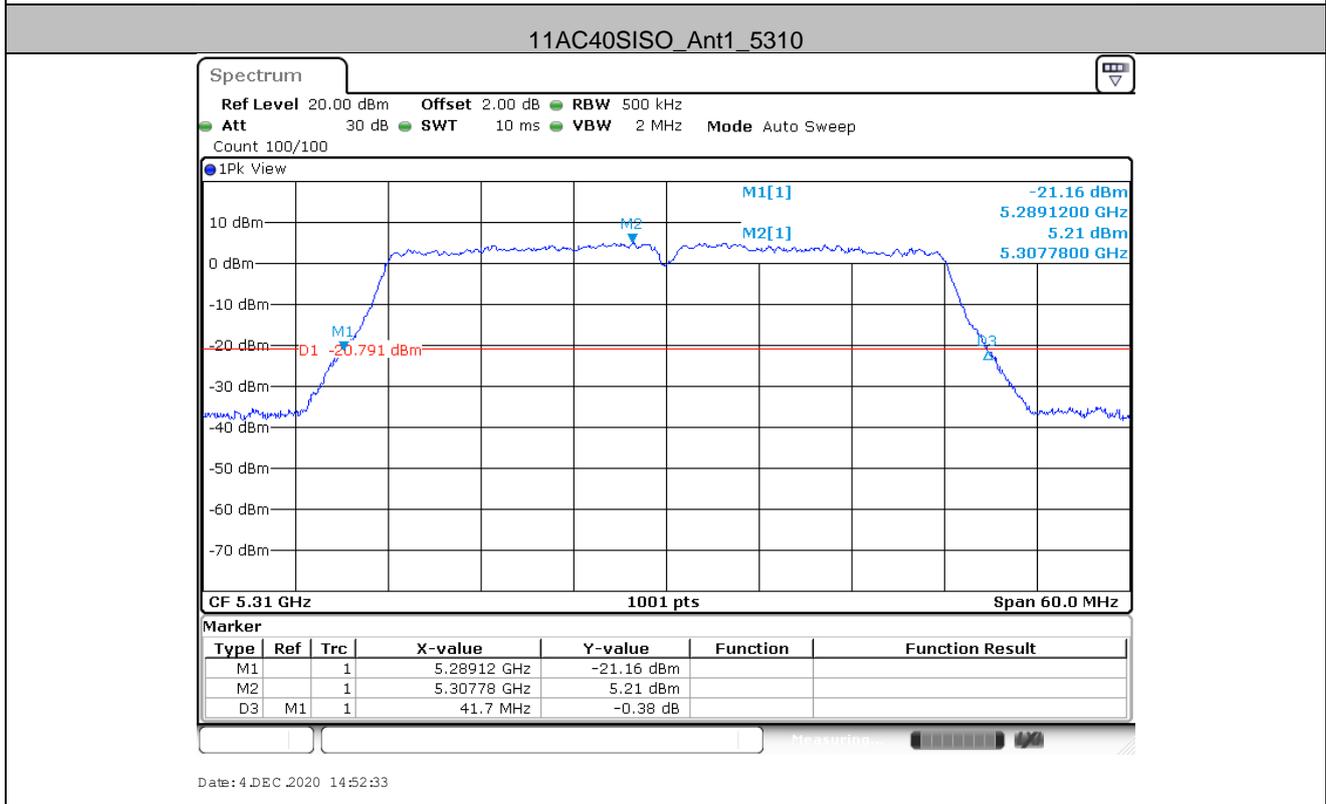
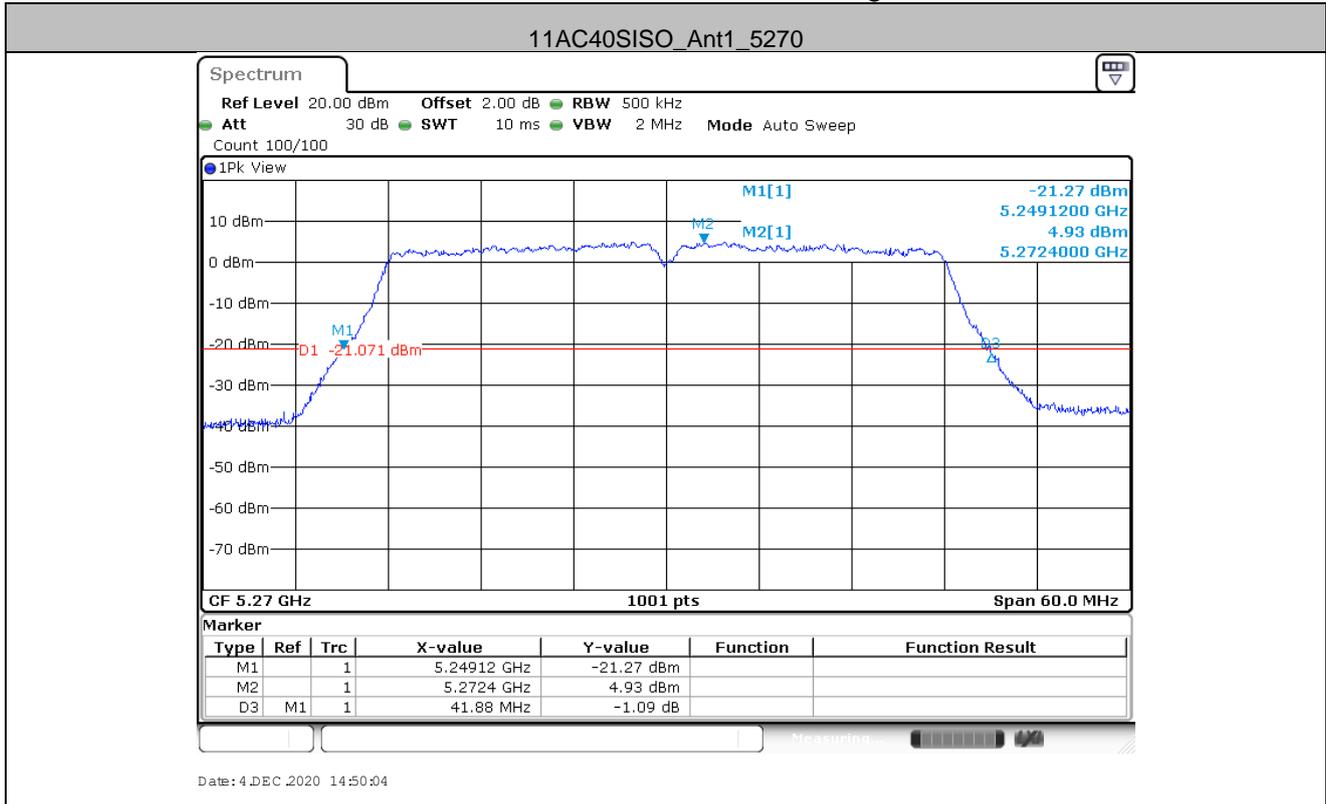
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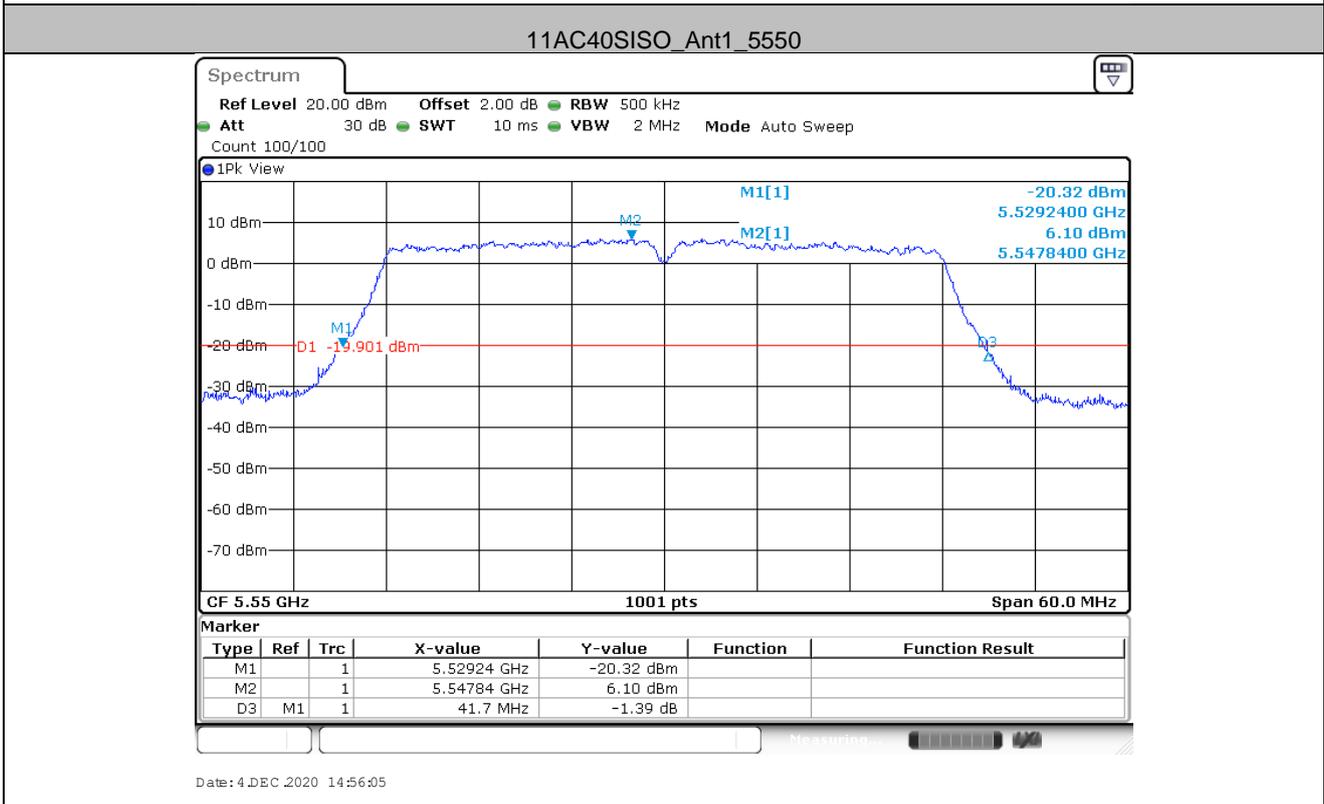
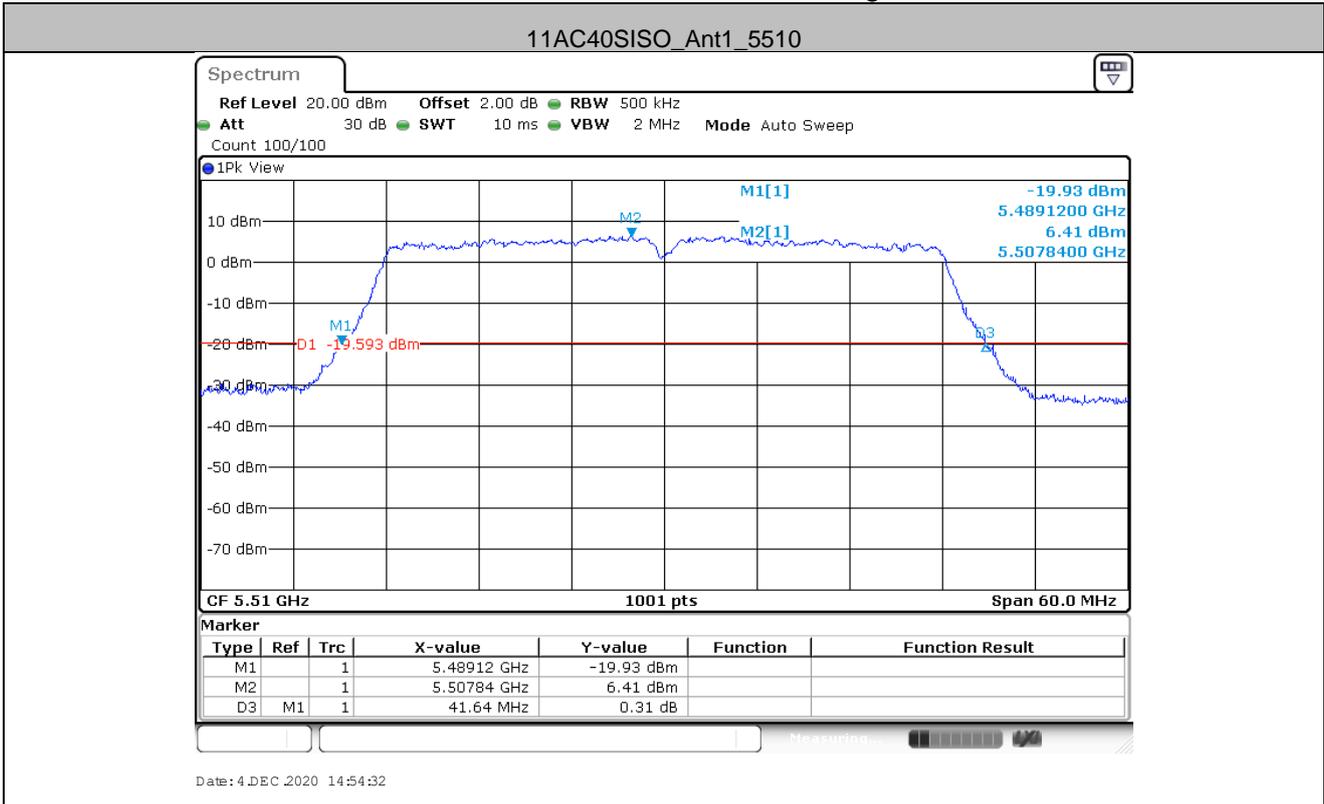


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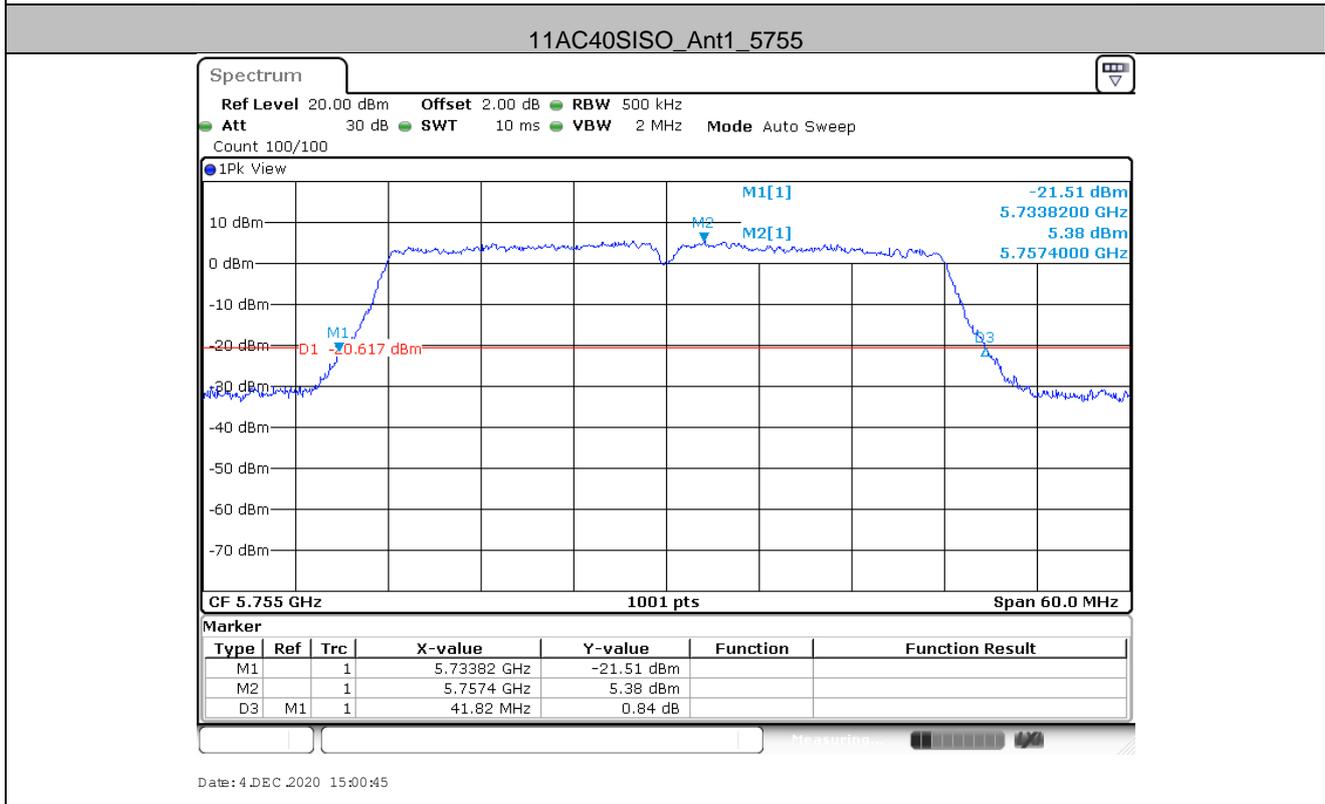
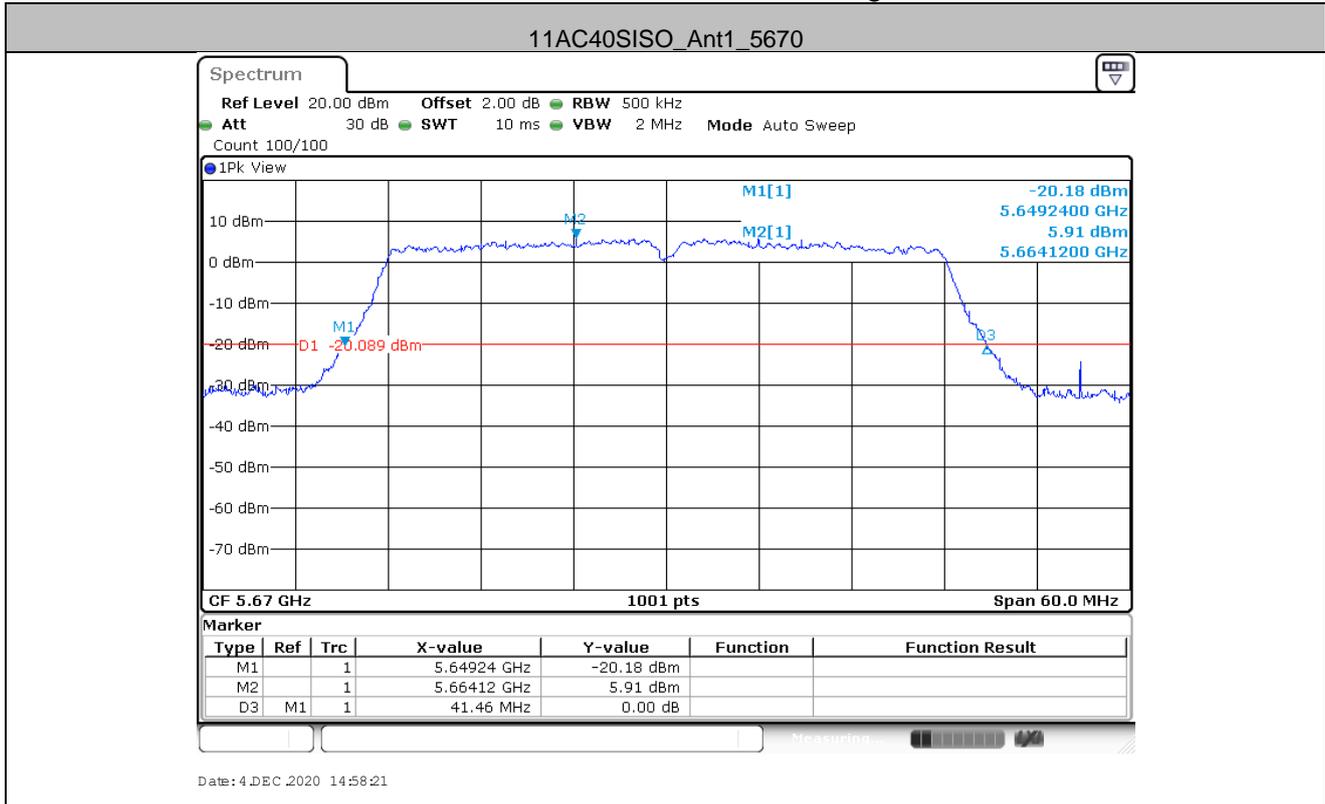


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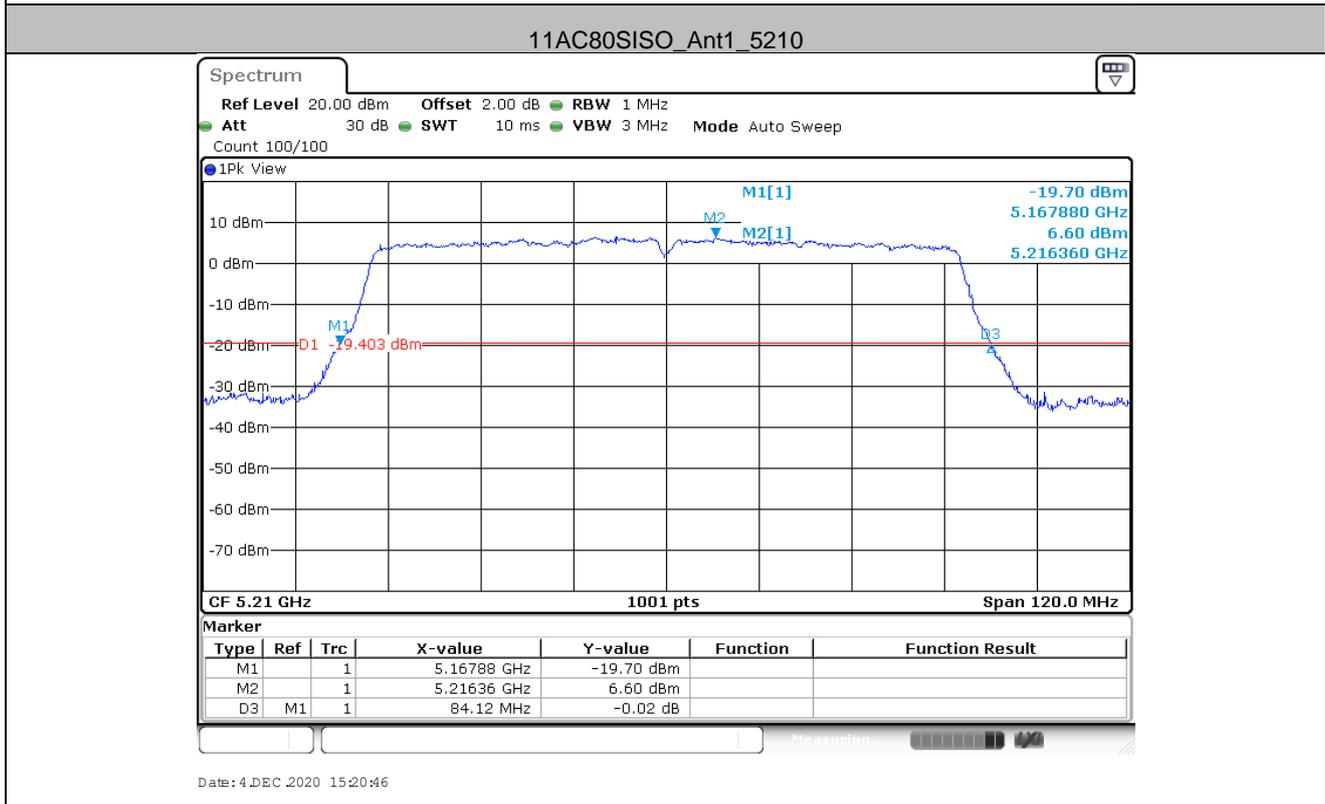
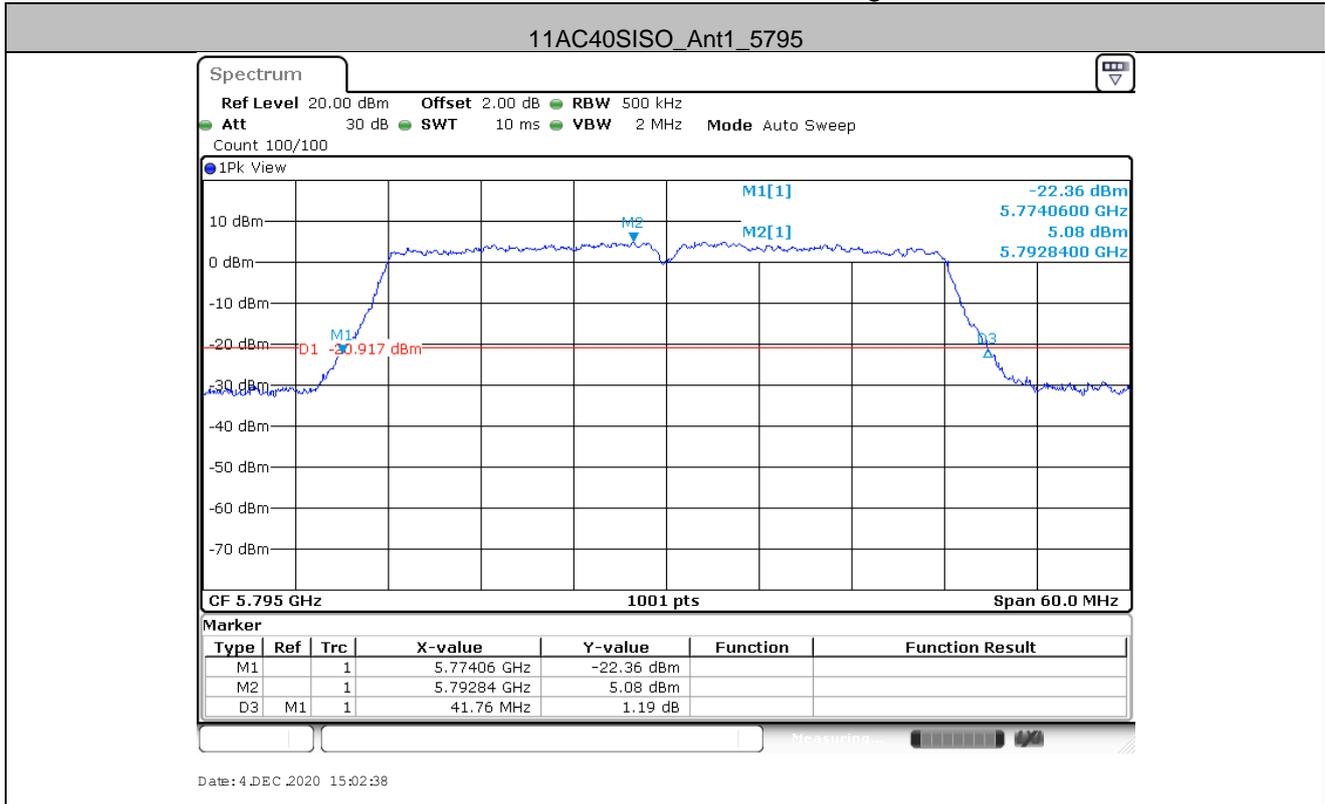
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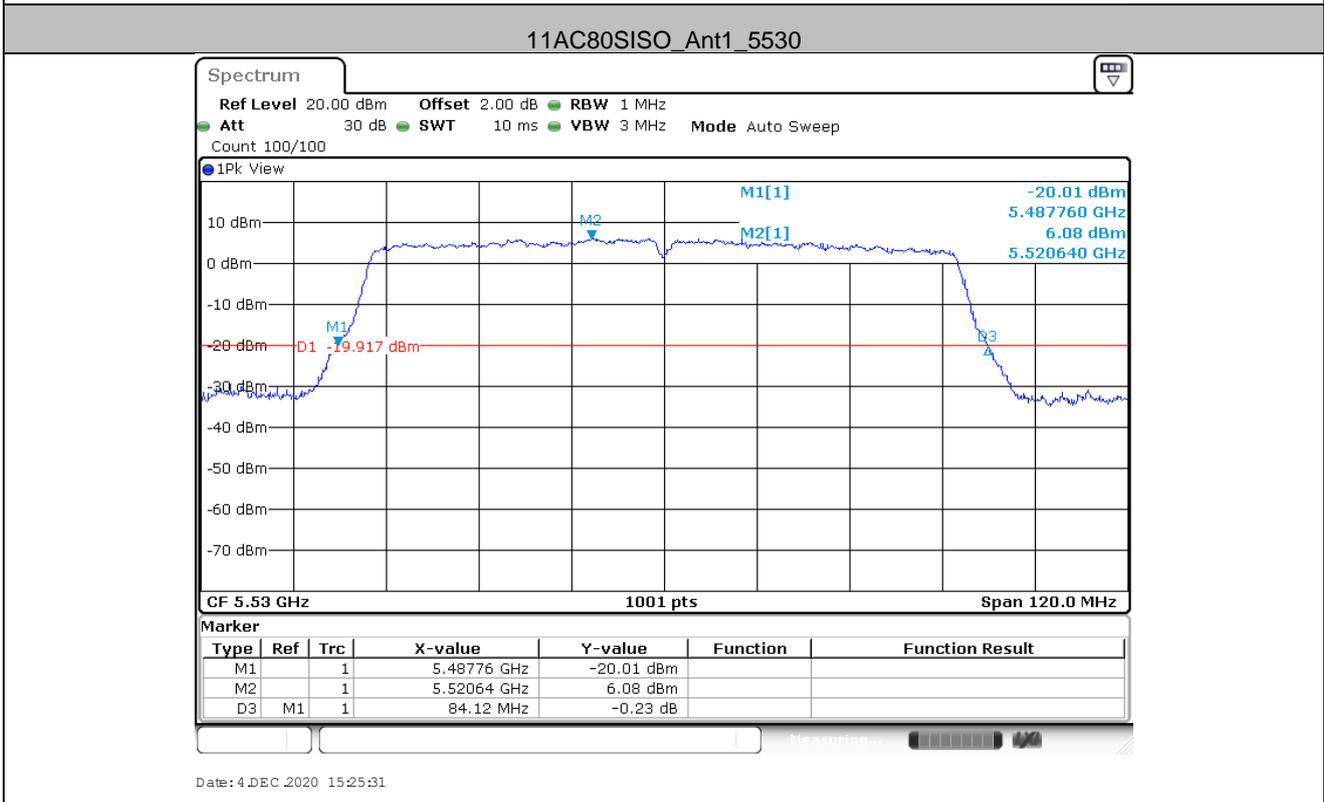
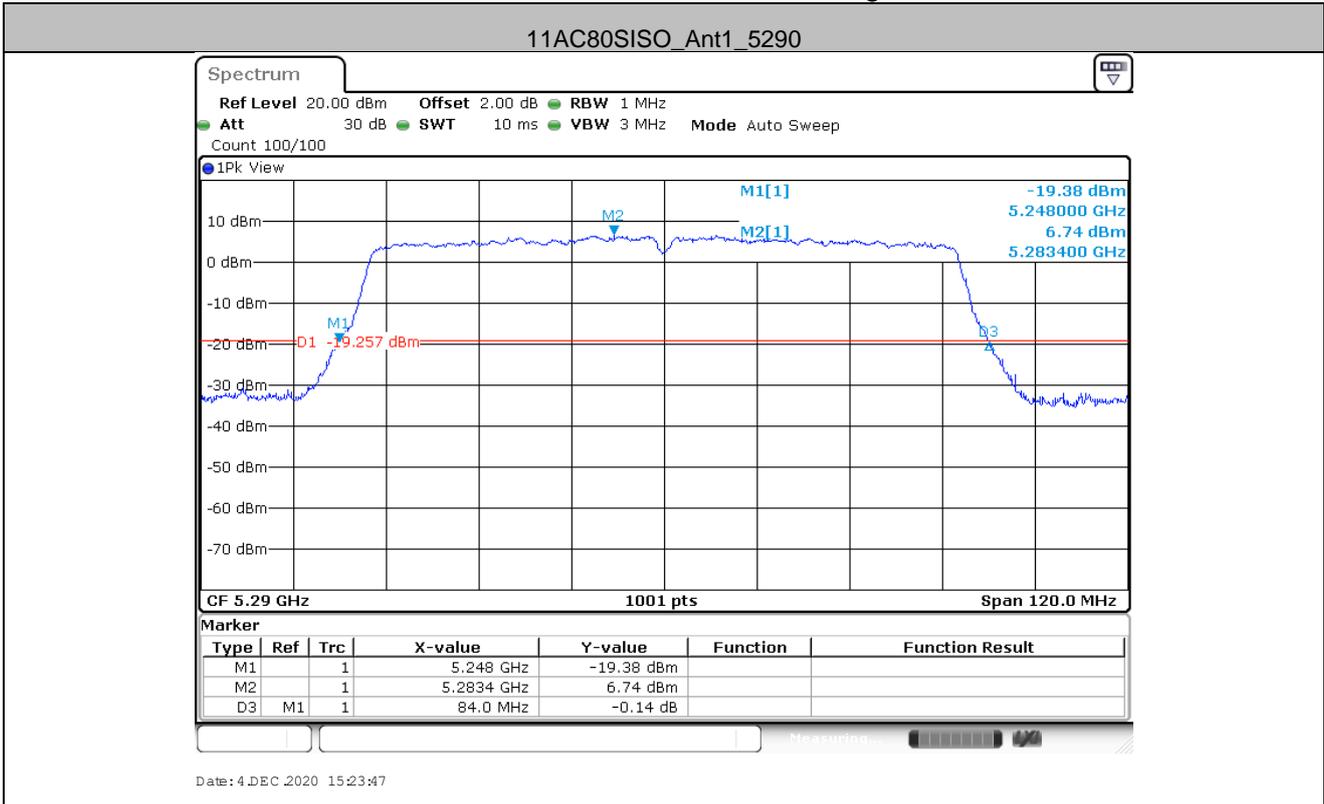


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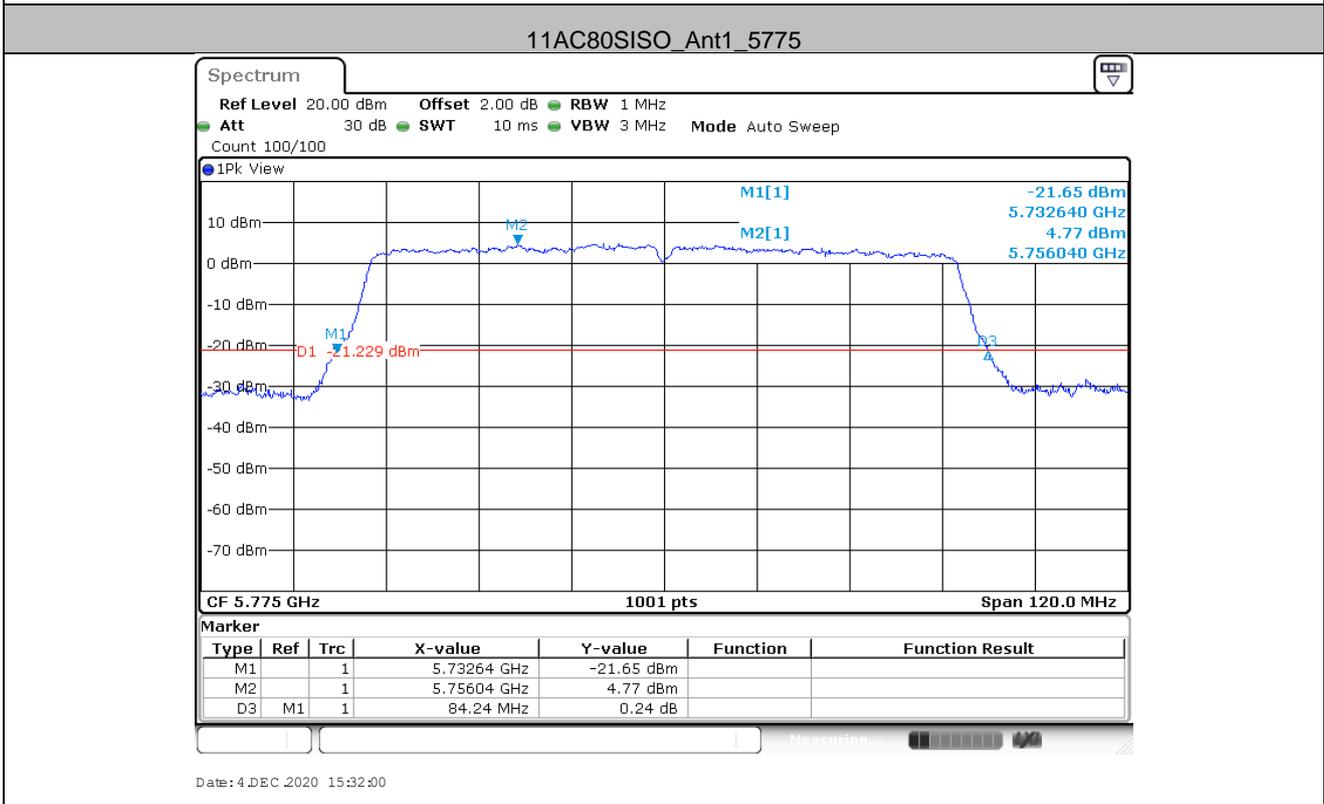
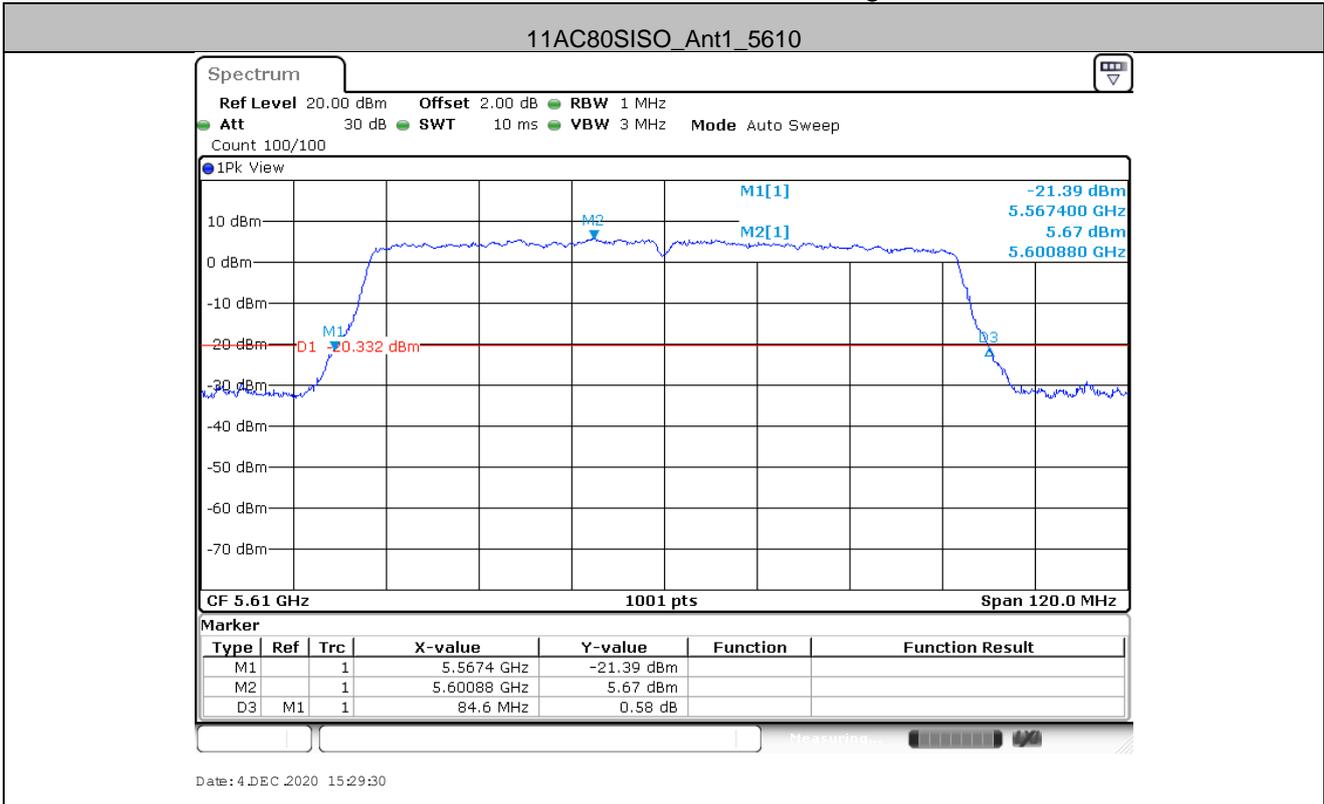


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Occupied channel bandwidth
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.663	5171.608	5188.272	---	PASS
		5200	16.663	5191.608	5208.272	---	PASS
		5240	16.663	5231.638	5248.302	---	PASS
		5260	16.723	5251.608	5268.332	---	PASS
		5300	16.693	5291.608	5308.302	---	PASS
		5320	16.693	5311.608	5328.302	---	PASS
		5500	16.693	5491.608	5508.302	---	PASS
		5580	16.693	5571.608	5588.302	---	PASS
		5700	16.693	5691.608	5708.302	---	PASS
		5745	16.723	5736.578	5753.302	---	PASS
		5785	16.723	5776.608	5793.332	---	PASS
		5825	16.693	5816.608	5833.302	---	PASS
11N20SISO	Ant1	5180	17.892	5171.039	5188.931	---	PASS
		5200	17.922	5191.009	5208.931	---	PASS
		5240	17.922	5231.039	5248.961	---	PASS
		5260	17.922	5251.039	5268.961	---	PASS
		5300	17.922	5291.039	5308.961	---	PASS
		5320	17.892	5311.039	5328.931	---	PASS
		5500	17.892	5491.039	5508.931	---	PASS
		5580	17.922	5571.009	5588.931	---	PASS
		5700	17.892	5691.039	5708.931	---	PASS
		5745	17.892	5736.009	5753.901	---	PASS
		5785	17.892	5776.039	5793.931	---	PASS
		5825	17.892	5816.039	5833.931	---	PASS
11N40SISO	Ant1	5190	36.324	5171.838	5208.162	---	PASS
		5230	36.204	5211.898	5248.102	---	PASS
		5270	36.264	5251.898	5288.162	---	PASS
		5310	36.204	5291.898	5328.102	---	PASS



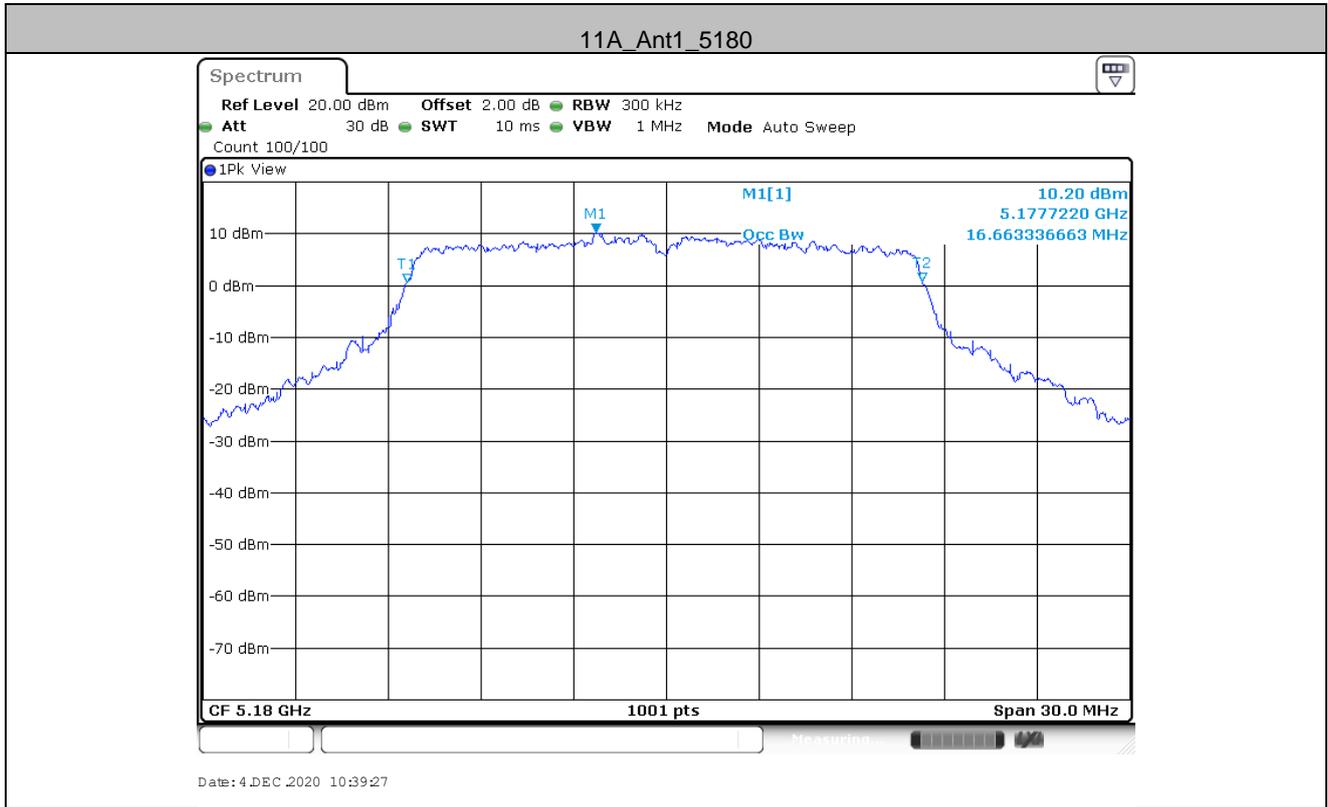
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		5510	36.204	5491.898	5528.102	---	PASS
		5550	36.264	5531.838	5568.102	---	PASS
		5670	36.264	5651.838	5688.102	---	PASS
		5755	36.384	5736.778	5773.162	---	PASS
		5795	36.324	5776.838	5813.162	---	PASS
11AC20SISO	Ant1	5180	17.892	5171.039	5188.931	---	PASS
		5200	17.922	5191.009	5208.931	---	PASS
		5240	17.892	5231.039	5248.931	---	PASS
		5260	17.922	5251.039	5268.961	---	PASS
		5300	17.922	5291.039	5308.961	---	PASS
		5320	17.892	5311.039	5328.931	---	PASS
		5500	17.892	5491.039	5508.931	---	PASS
		5580	17.922	5571.009	5588.931	---	PASS
		5700	17.922	5691.009	5708.931	---	PASS
		5745	17.922	5736.009	5753.931	---	PASS
		5785	17.922	5776.009	5793.931	---	PASS
		5825	17.892	5816.039	5833.931	---	PASS
11AC40SISO	Ant1	5190	36.324	5171.838	5208.162	---	PASS
		5230	36.324	5211.838	5248.162	---	PASS
		5270	36.324	5251.838	5288.162	---	PASS
		5310	36.324	5291.838	5328.162	---	PASS
		5510	36.324	5491.838	5528.162	---	PASS
		5550	36.324	5531.778	5568.102	---	PASS
		5670	36.324	5651.838	5688.162	---	PASS
		5755	36.324	5736.778	5773.102	---	PASS
		5795	36.324	5776.838	5813.162	---	PASS
11AC80SISO	Ant1	5210	75.764	5172.118	5247.882	---	PASS
		5290	75.764	5252.118	5327.882	---	PASS
		5530	75.644	5492.118	5567.762	---	PASS
		5610	75.764	5571.998	5647.762	---	PASS
		5775	75.764	5736.998	5812.762	---	PASS



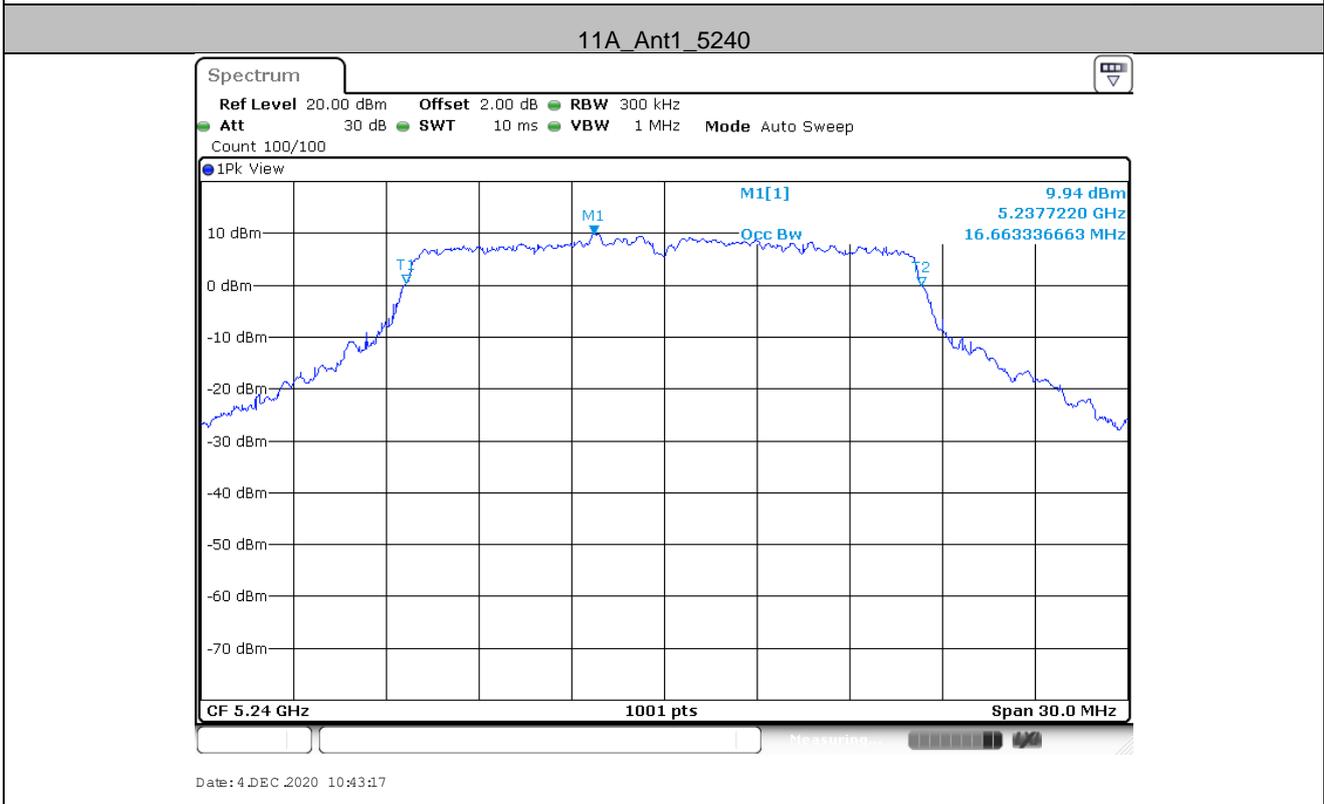
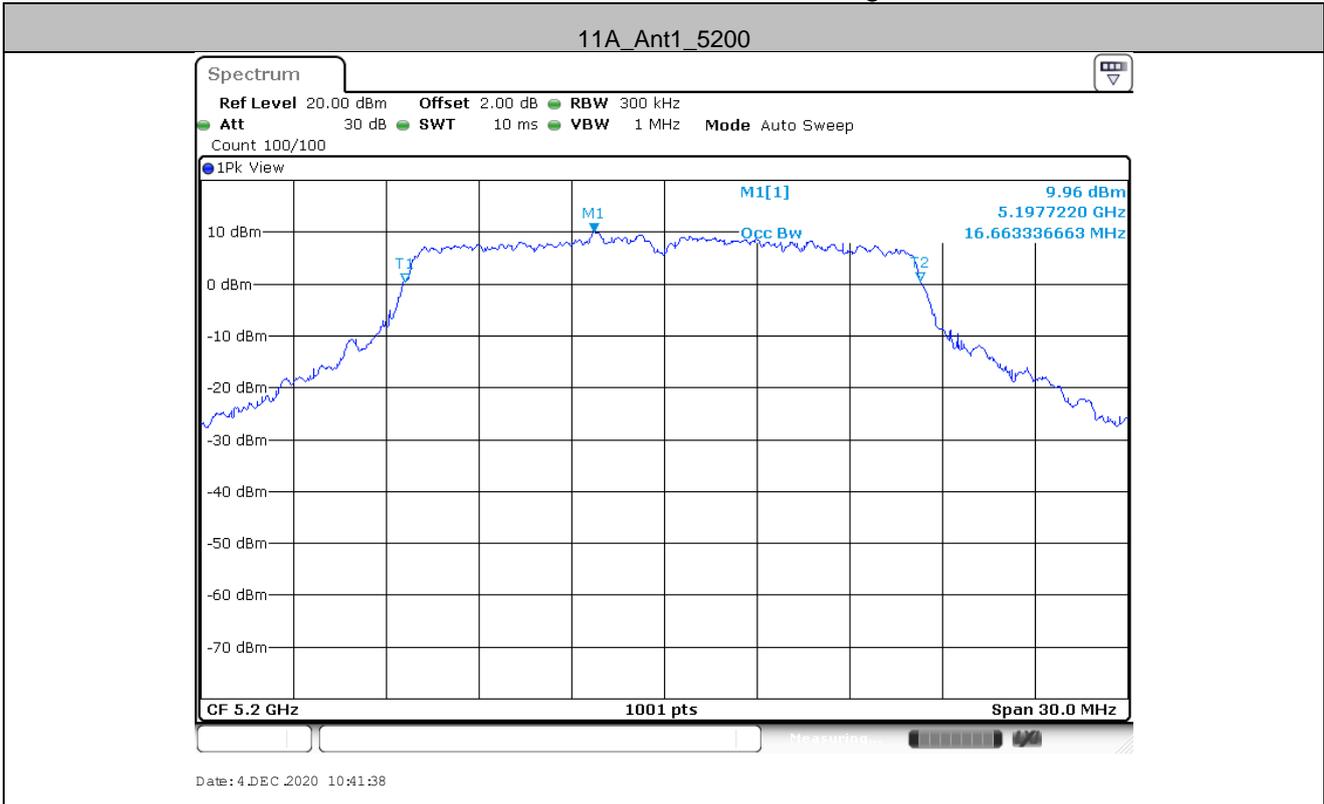
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Test Graphs



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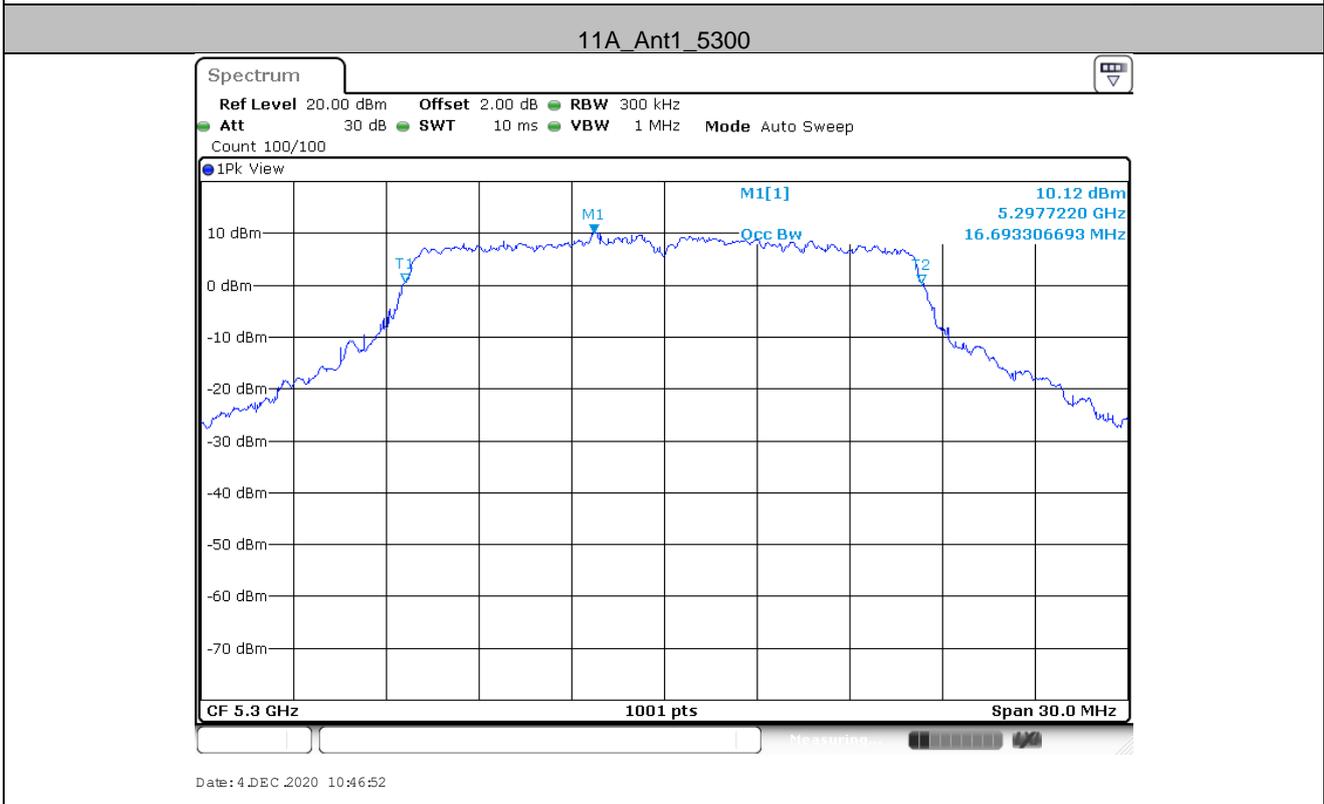
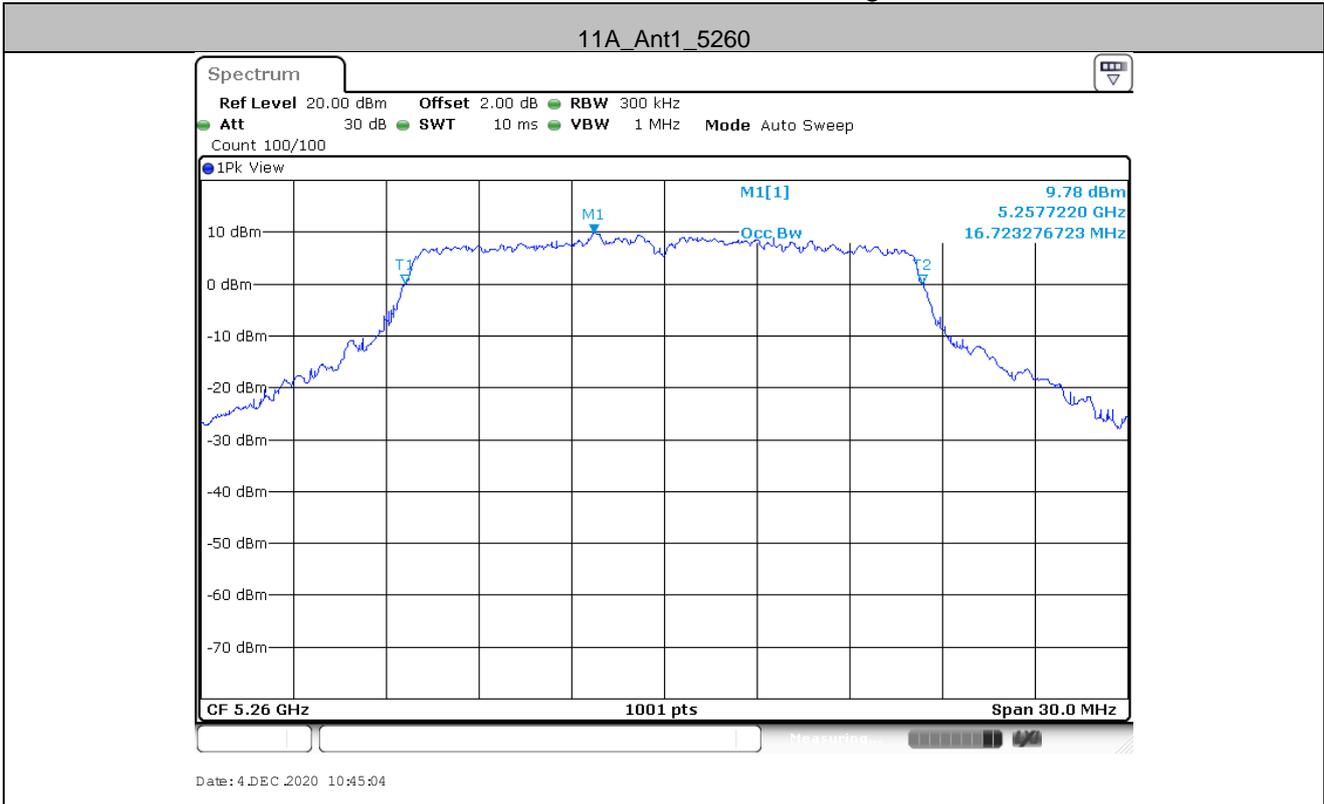
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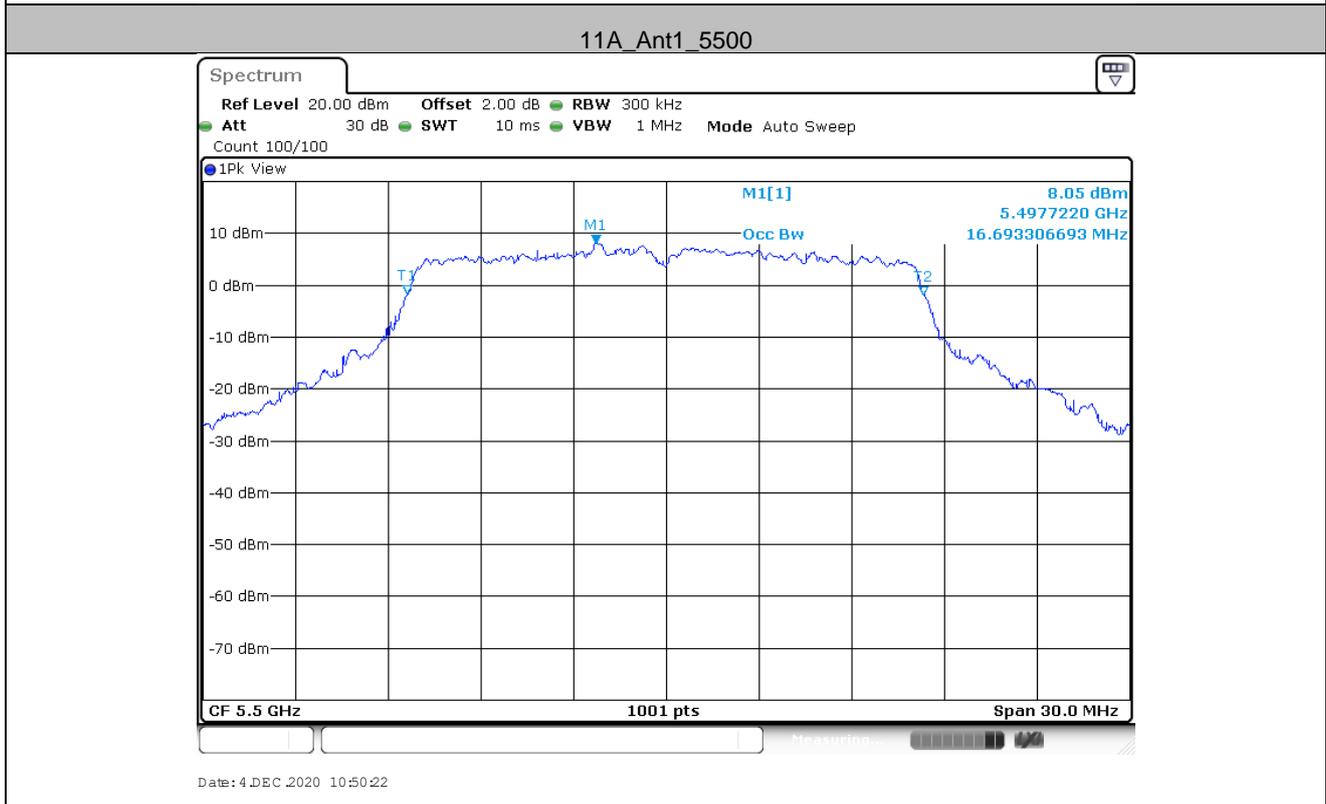
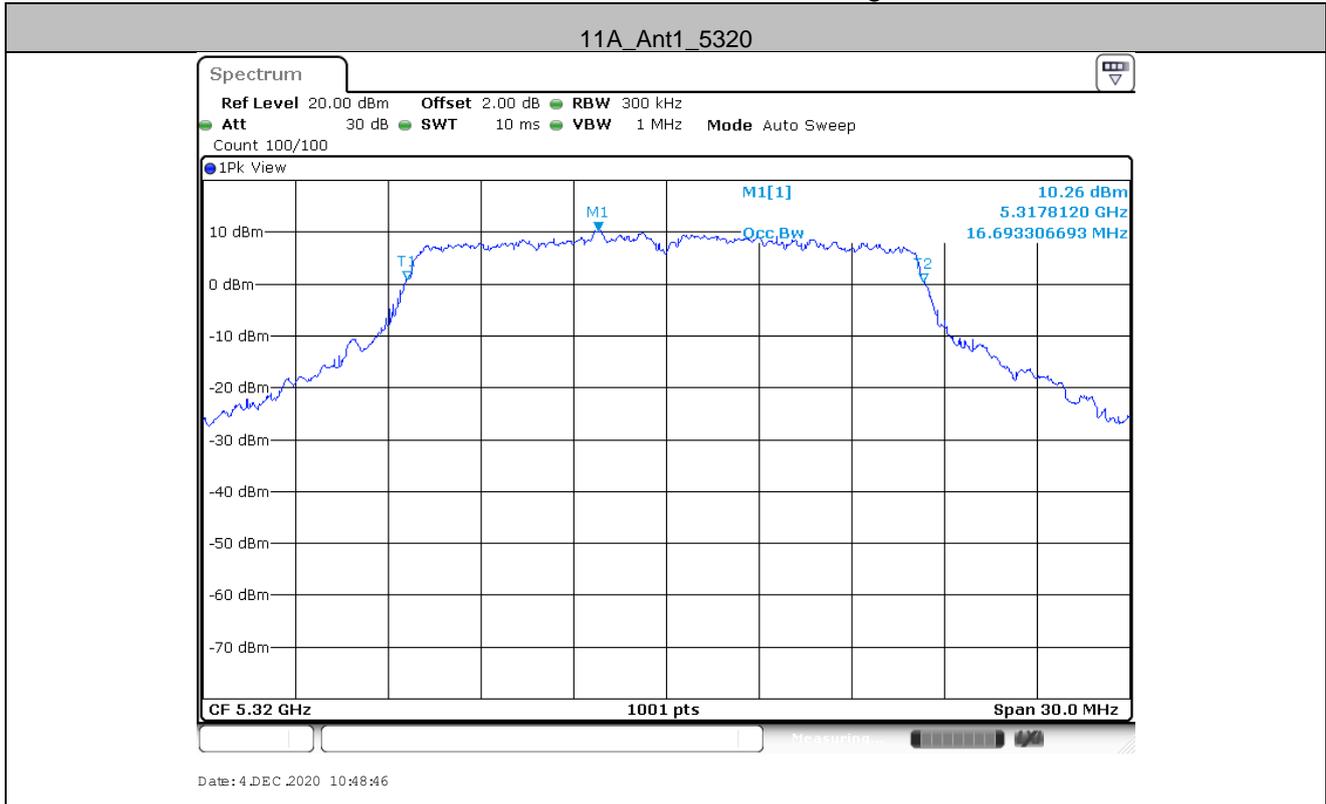
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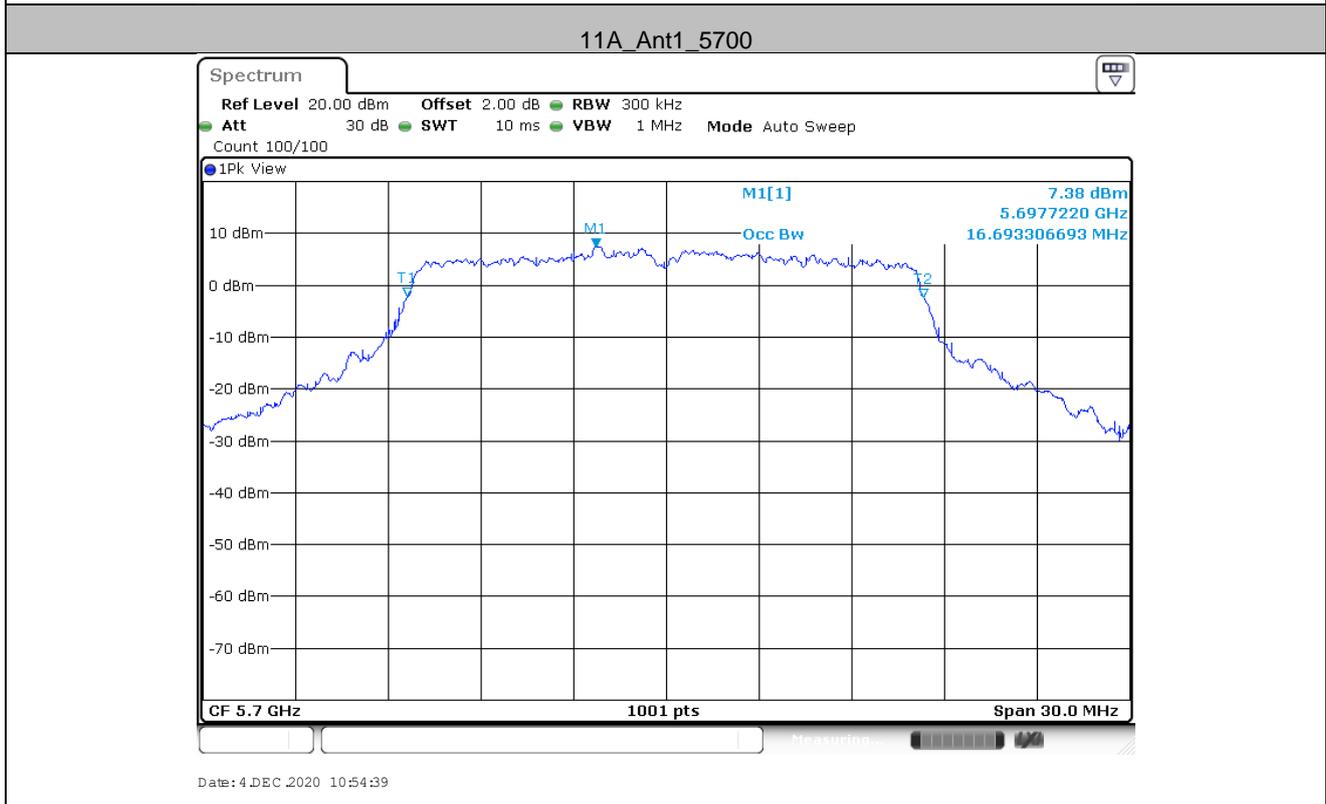
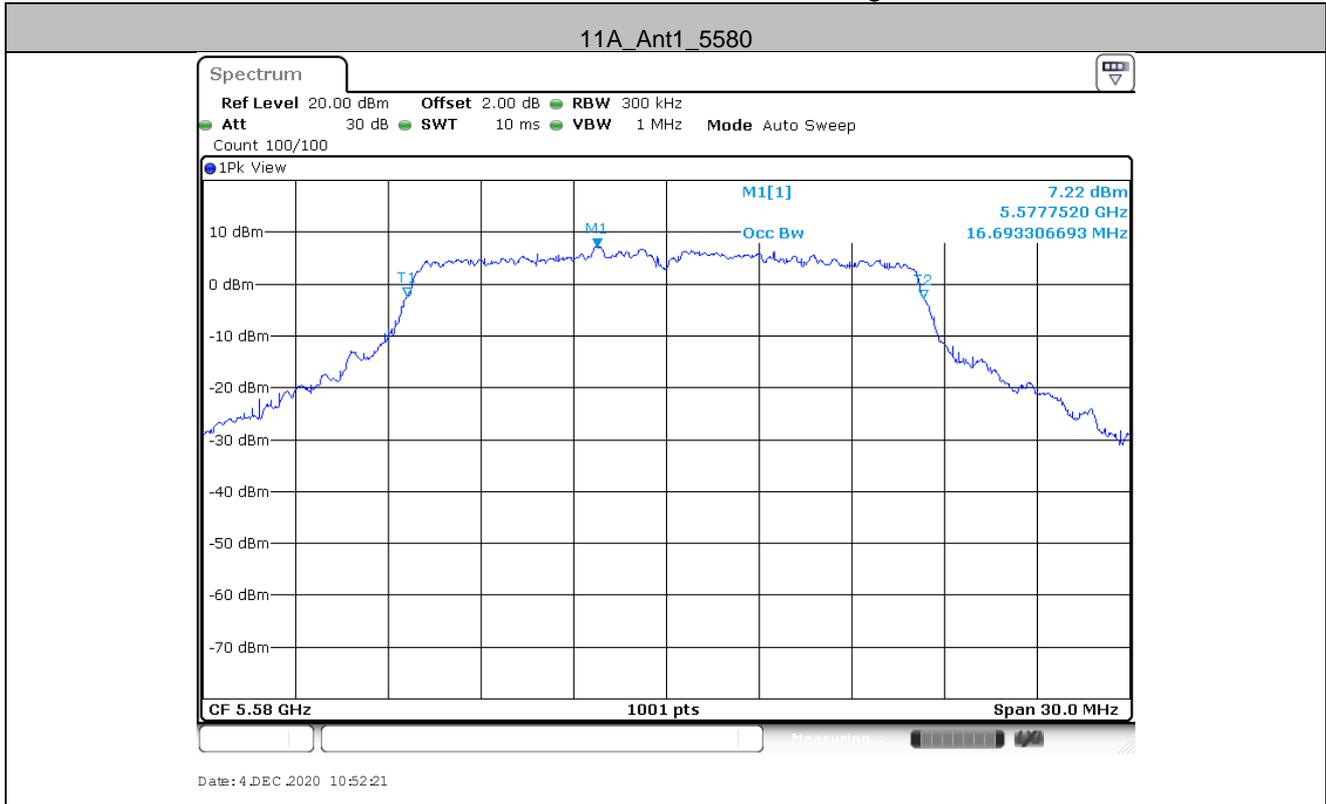


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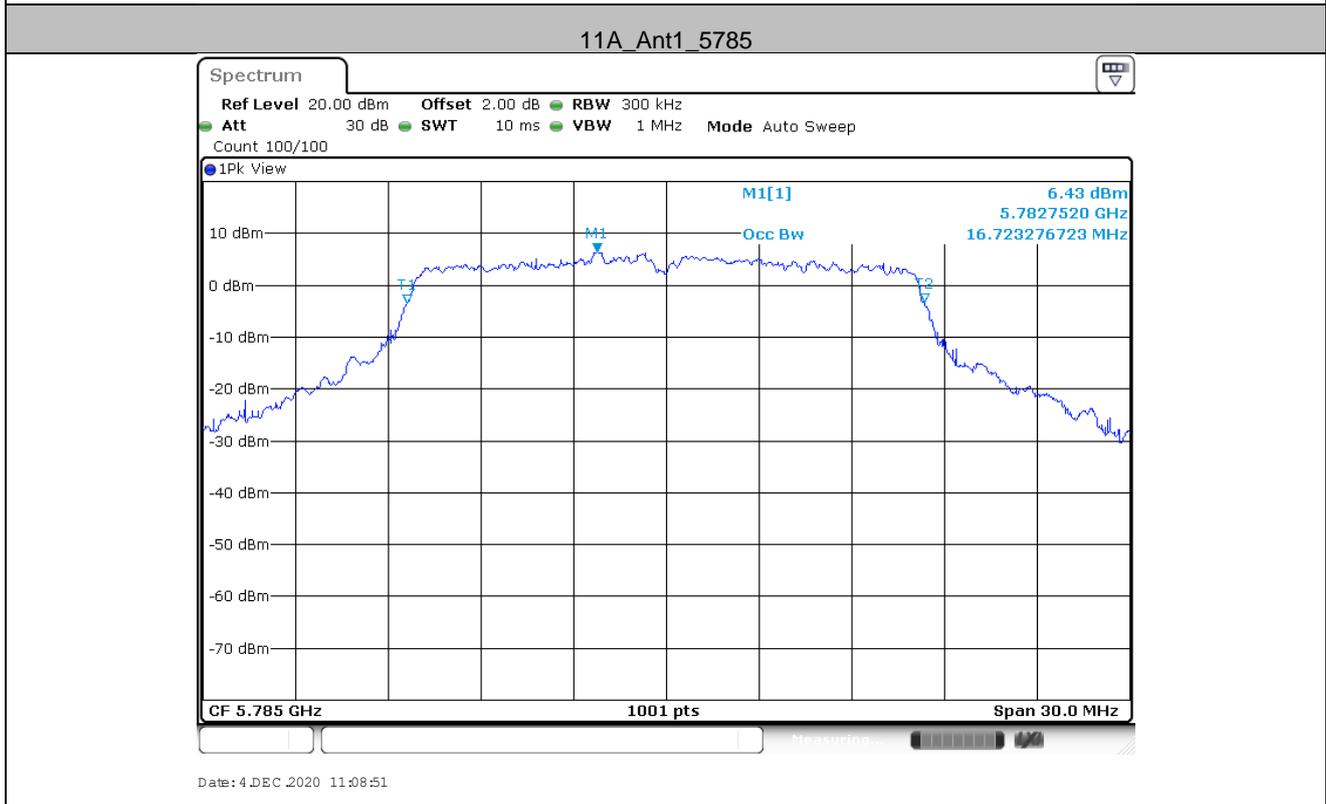
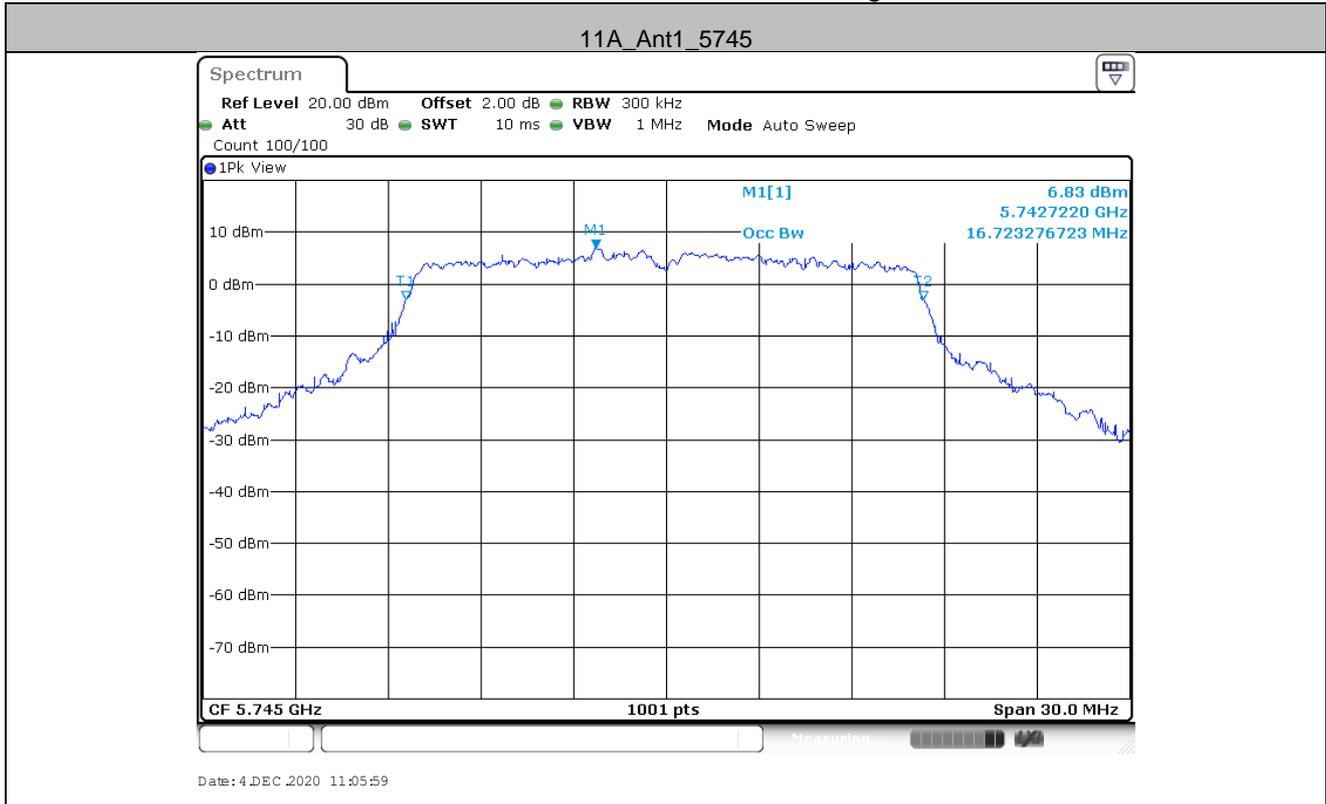
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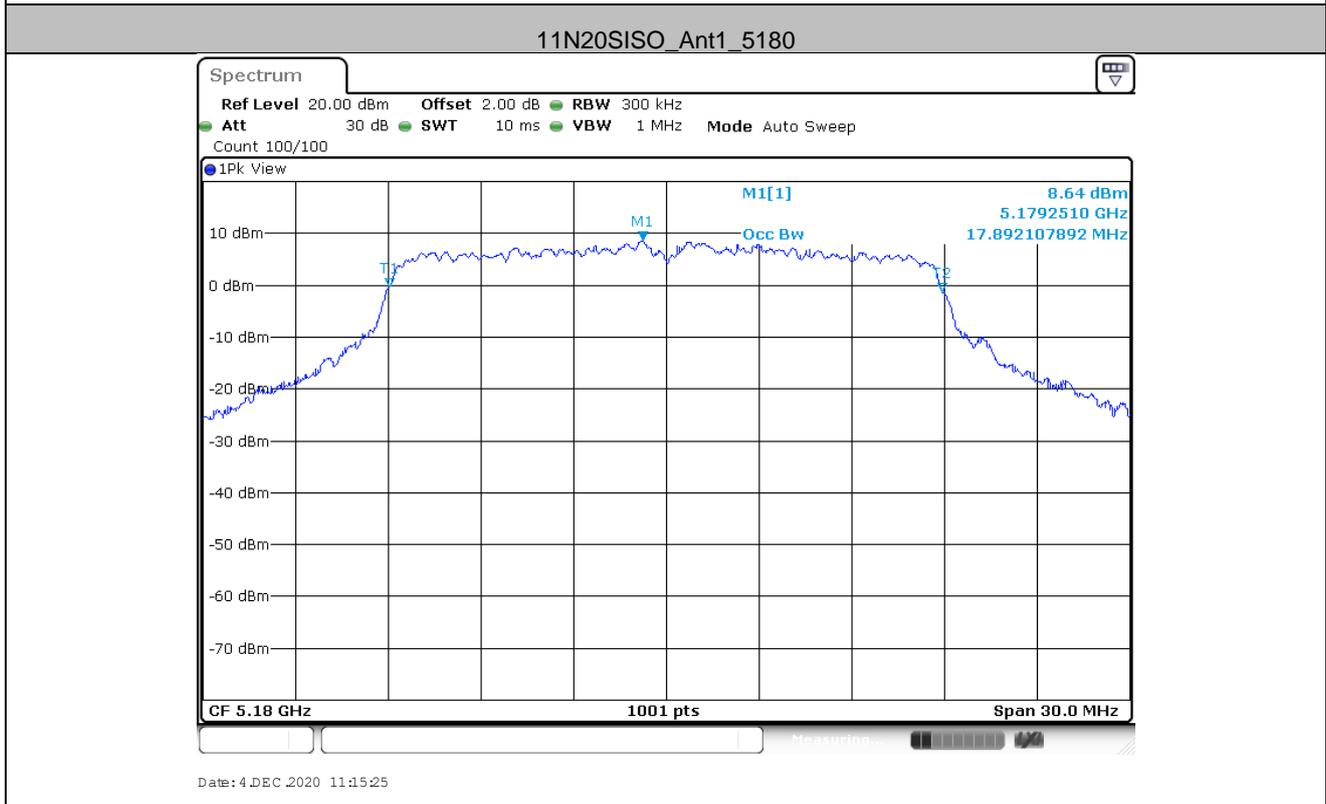
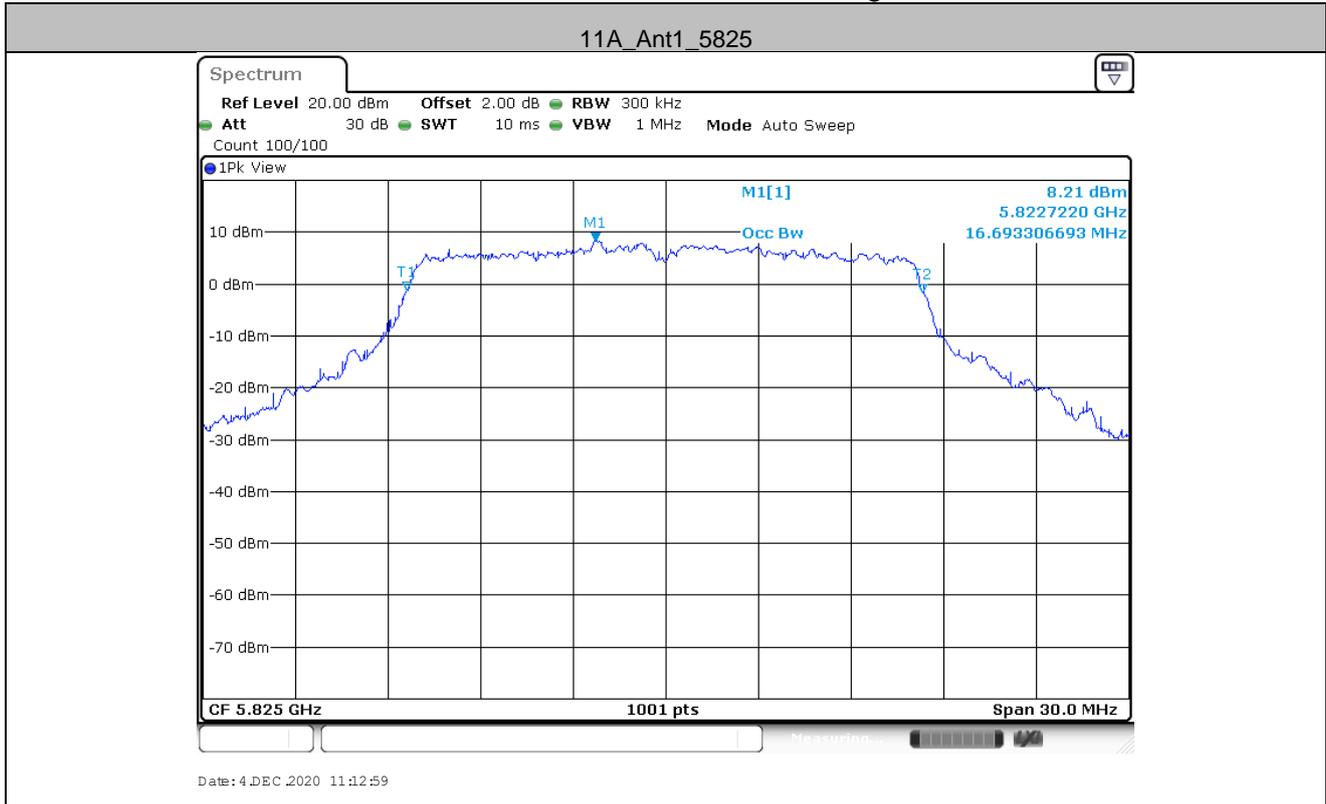
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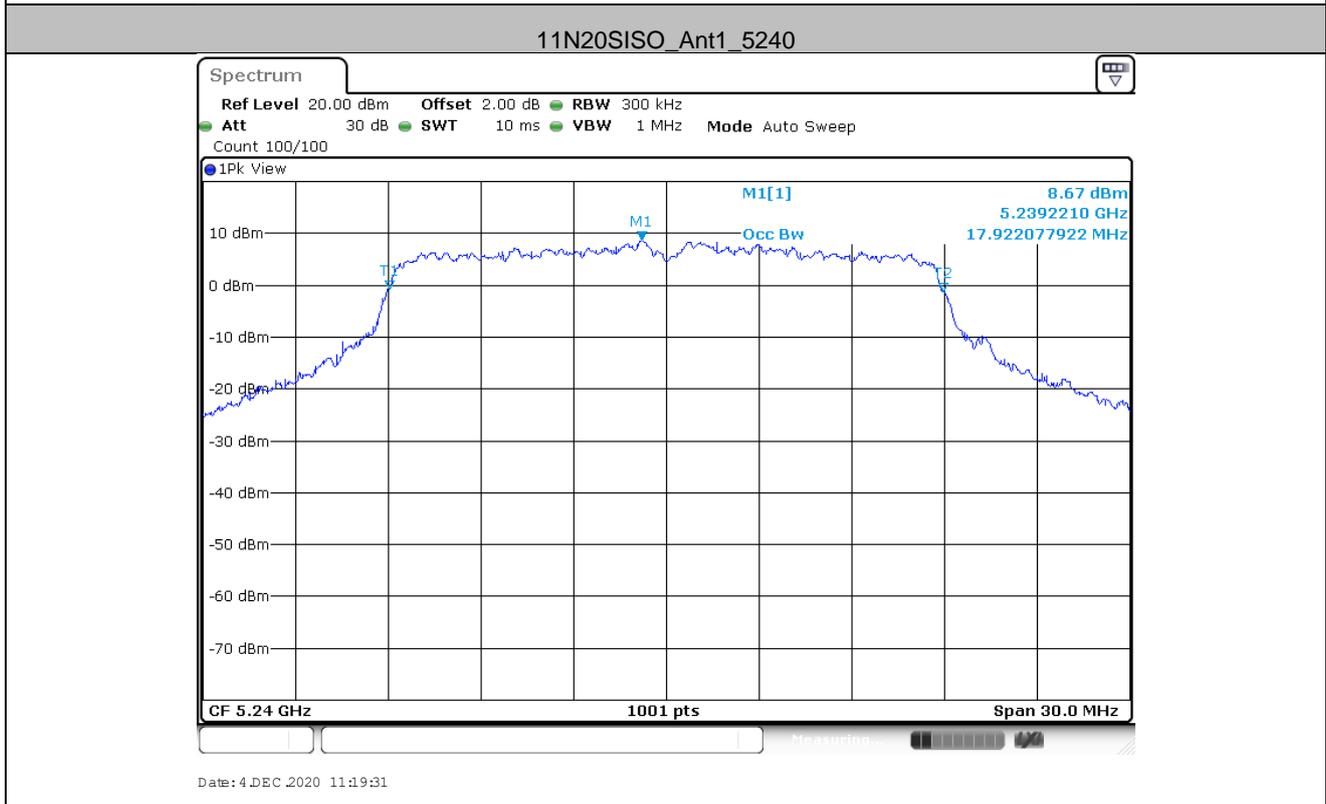
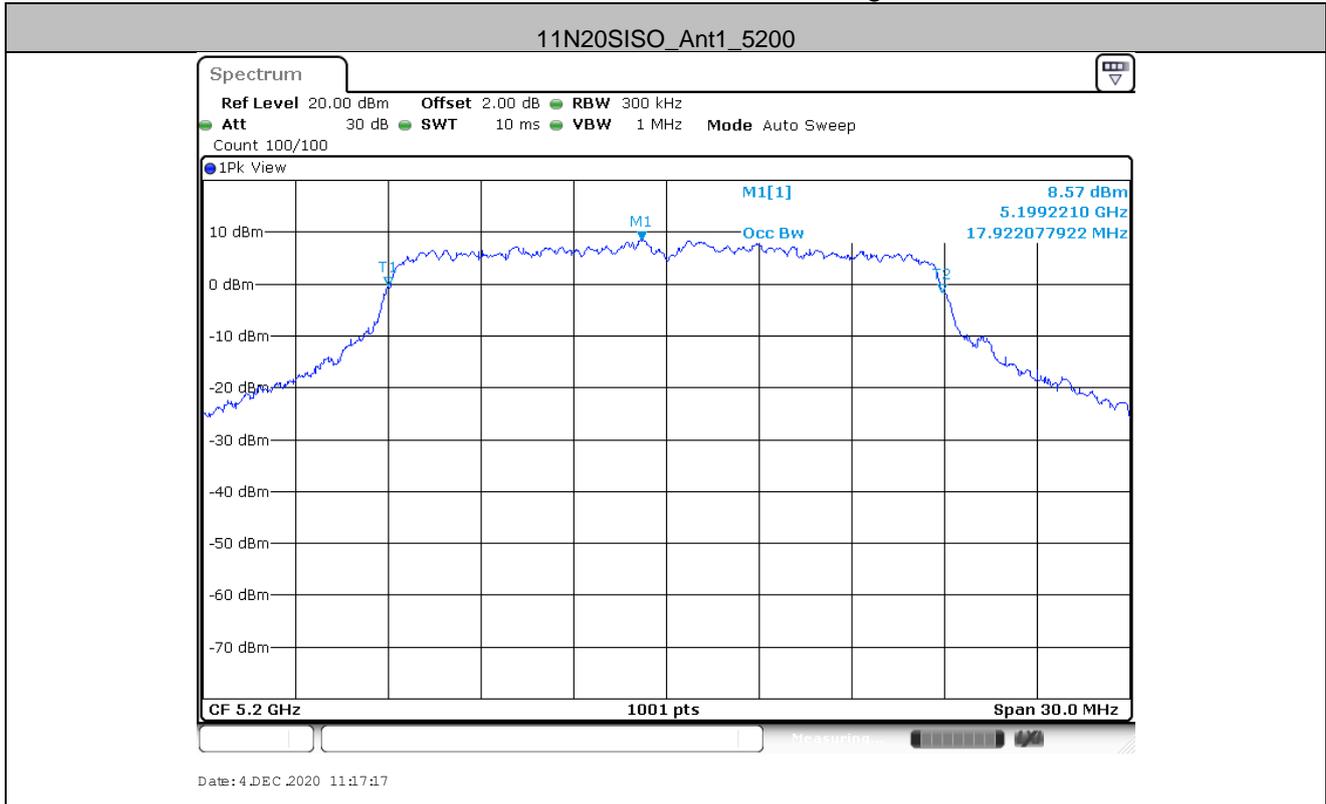
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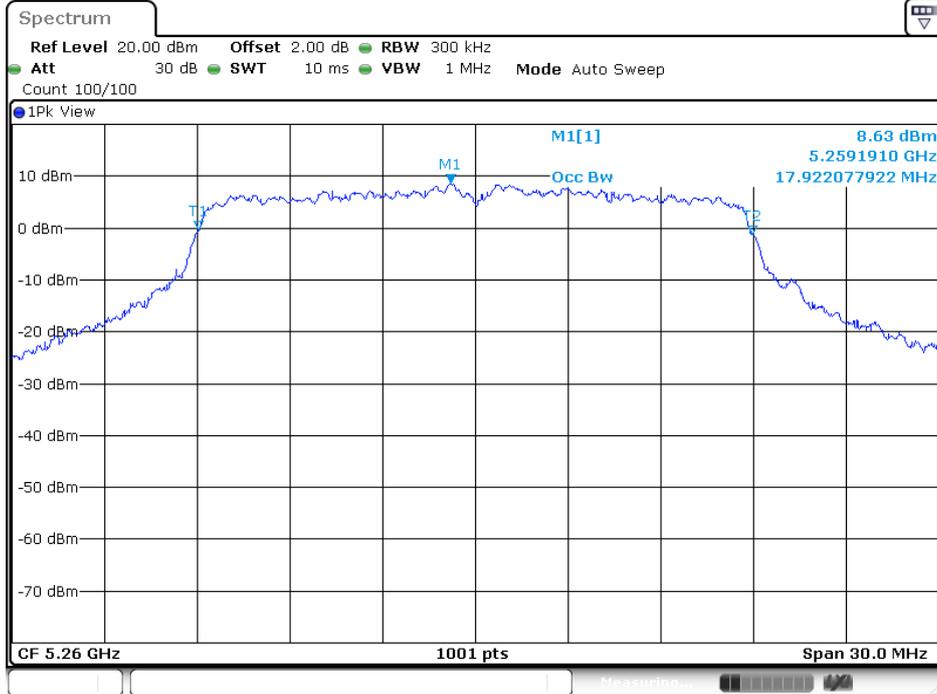
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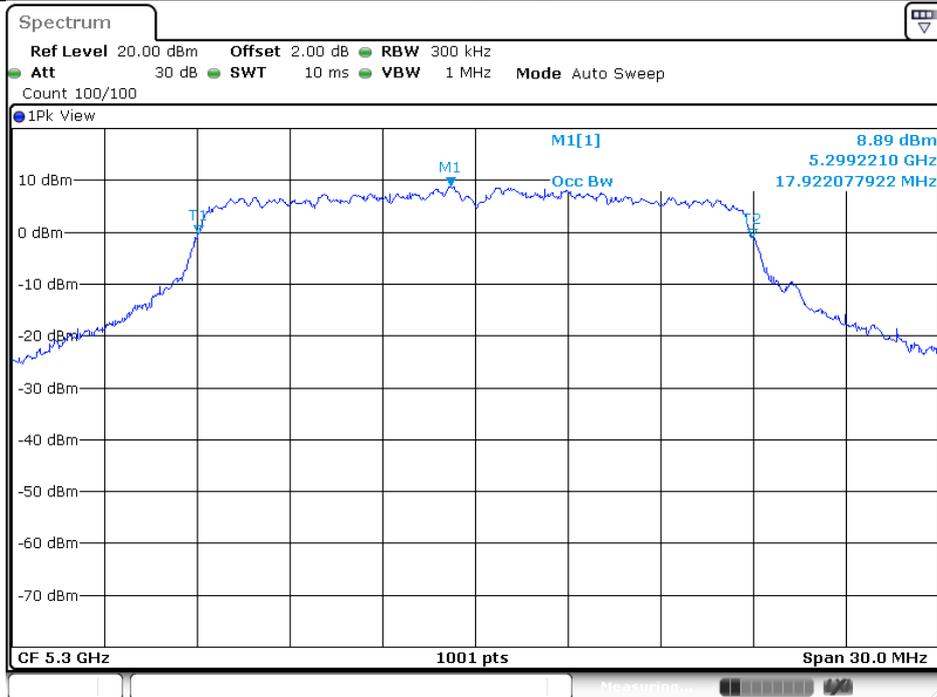


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11N20SISO_Ant1_5260



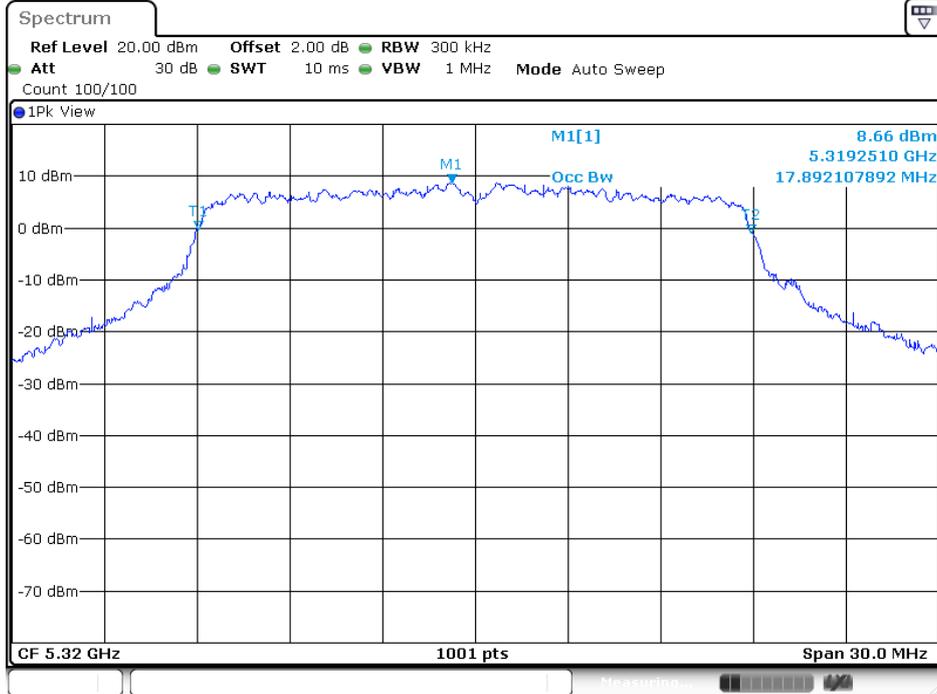
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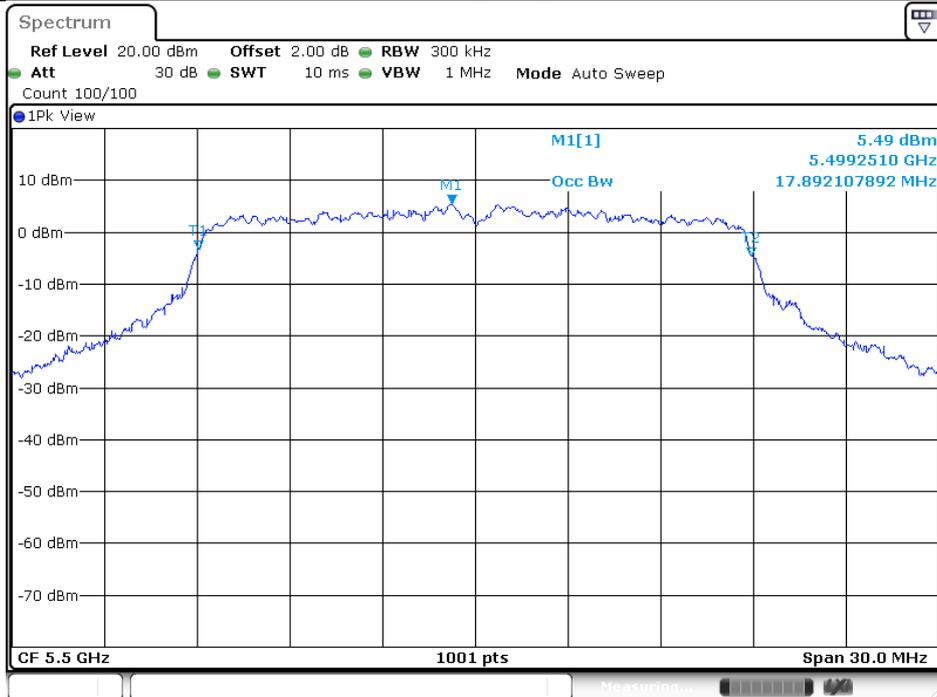
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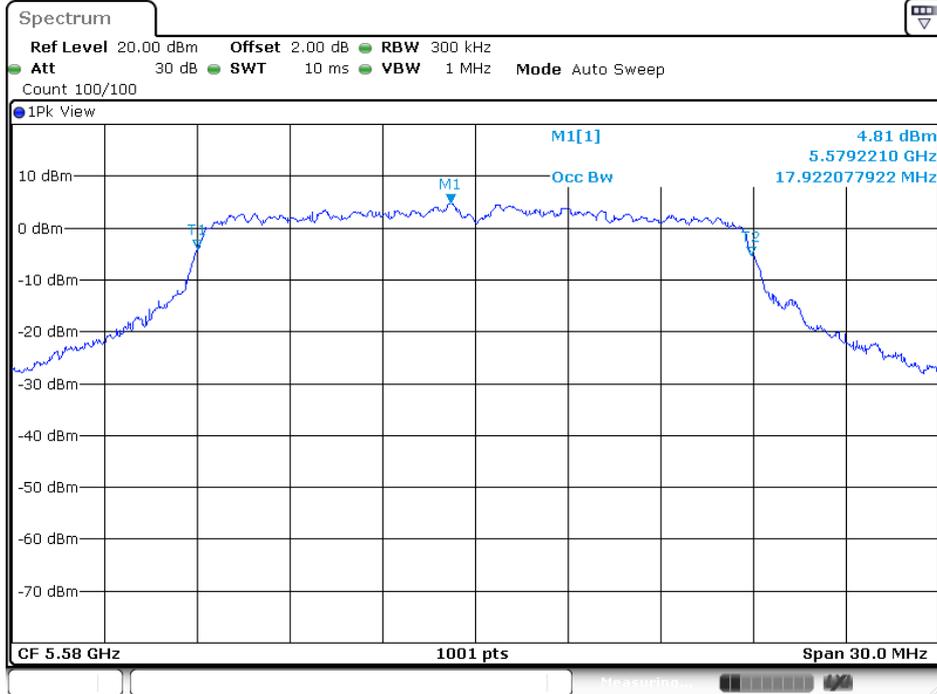
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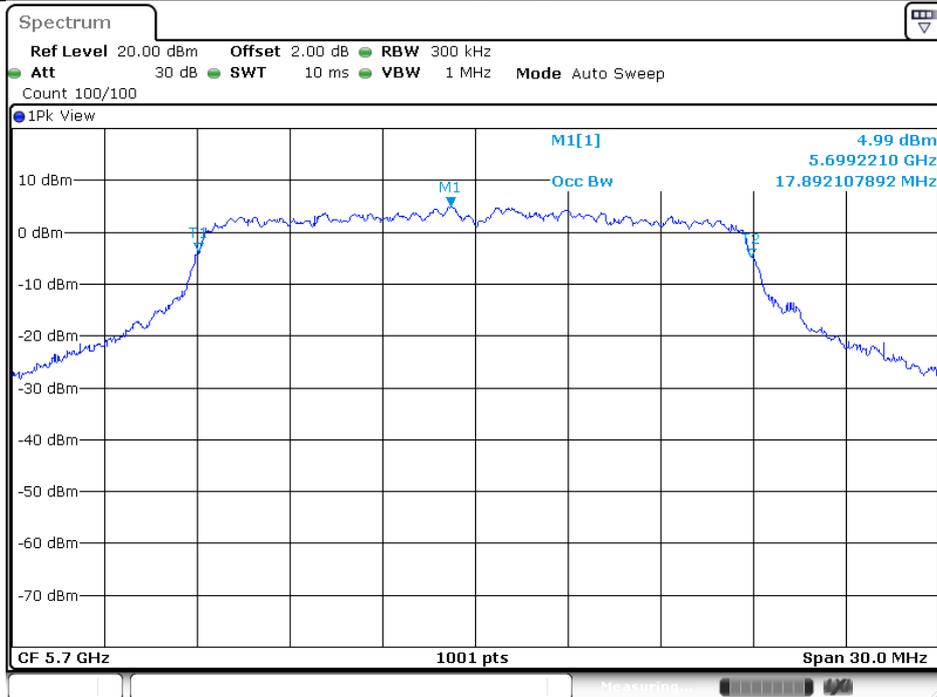
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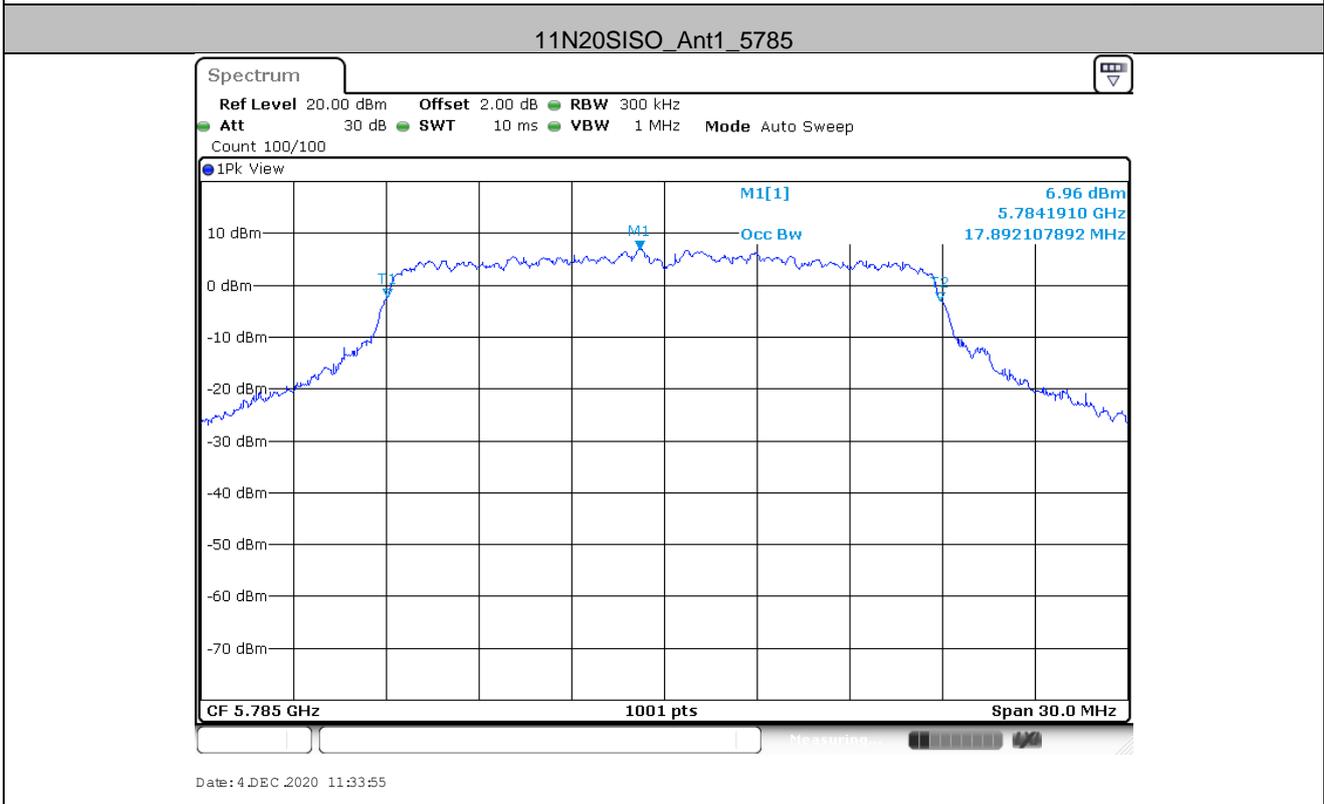
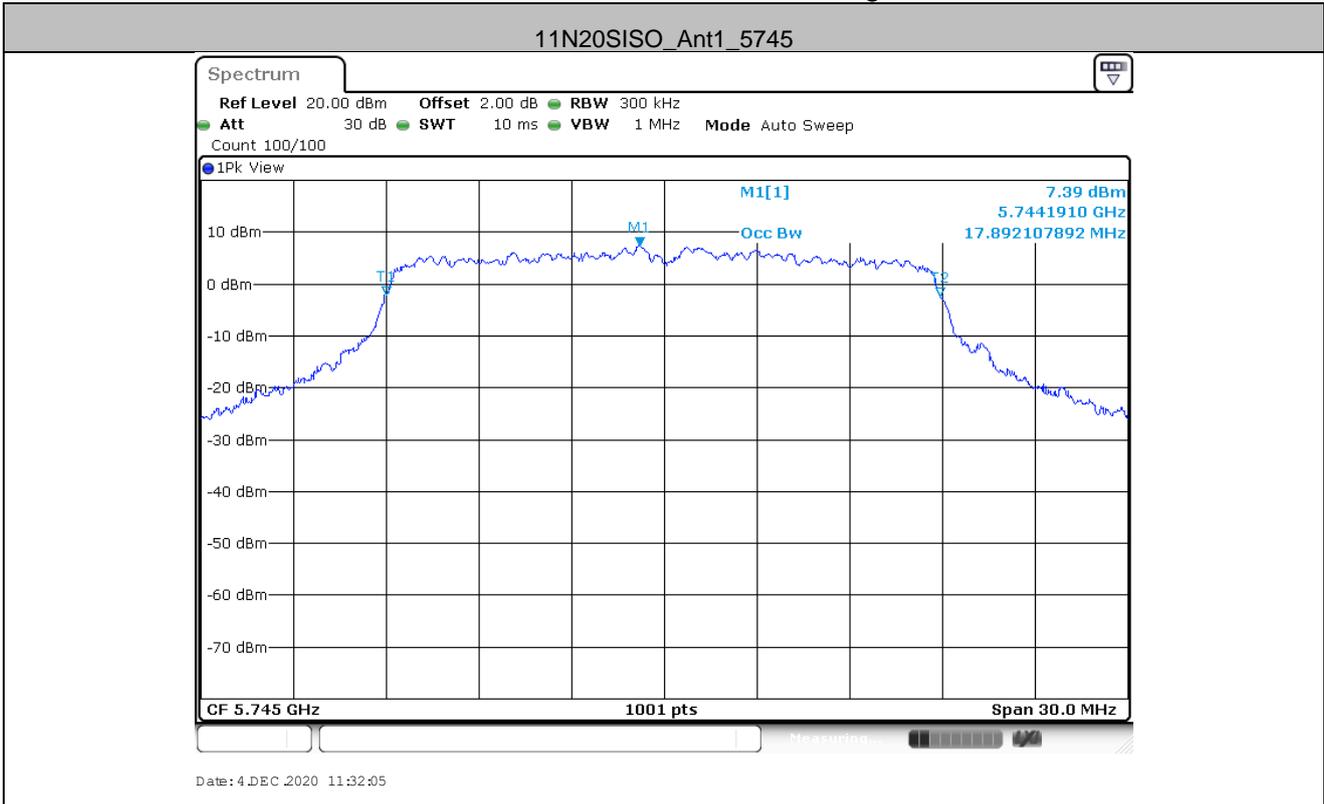


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