



Appendix D

RF Test Data for 5.2GWIFI&5.3GWIFI&5.5GWIFI

(Conducted Measurement)

Product Name: MCMP1021

Trade Mark: N/A

Test Model: MCMP1021

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan



D.1 Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.880	5170.000	5189.880	---	PASS
		5200	19.960	5189.960	5209.920	---	PASS
		5240	19.880	5230.040	5249.920	---	PASS
		5260	19.880	5250.080	5269.960	---	PASS
		5280	19.680	5270.200	5289.880	---	PASS
		5320	20.040	5309.960	5330.000	---	PASS
		5500	19.800	5490.080	5509.880	---	PASS
		5580	20.280	5569.680	5589.960	---	PASS
		5700	20.040	5689.840	5709.880	---	PASS
11N20SISO	Ant1	5180	20.040	5170.000	5190.040	---	PASS
		5200	19.920	5190.040	5209.960	---	PASS
		5240	20.400	5230.040	5250.440	---	PASS
		5260	20.040	5250.000	5270.040	---	PASS
		5280	20.120	5270.000	5290.120	---	PASS
		5320	19.880	5310.040	5329.920	---	PASS
		5500	21.960	5489.880	5511.840	---	PASS
		5580	26.920	5567.960	5594.880	---	PASS
		5700	29.120	5685.000	5714.120	---	PASS
11N40SISO	Ant1	5190	40.240	5169.920	5210.160	---	PASS
		5230	40.320	5209.680	5250.000	---	PASS
		5270	40.000	5249.920	5289.920	---	PASS
		5310	40.160	5289.920	5330.080	---	PASS
		5510	42.320	5490.000	5532.320	---	PASS
		5550	47.600	5528.480	5576.080	---	PASS
		5670	50.960	5645.520	5696.480	---	PASS
11AC20SISO	Ant1	5180	19.960	5169.920	5189.880	---	PASS
		5200	20.200	5189.920	5210.120	---	PASS
		5240	20.000	5229.920	5249.920	---	PASS
		5260	19.880	5250.080	5269.960	---	PASS
		5280	19.960	5269.960	5289.920	---	PASS
		5320	19.800	5310.120	5329.920	---	PASS
		5500	20.240	5490.000	5510.240	---	PASS
		5580	20.560	5569.760	5590.320	---	PASS
		5700	34.680	5681.840	5716.520	---	PASS
11AC40SISO	Ant1	5190	40.640	5169.920	5210.560	---	PASS
		5230	40.240	5209.840	5250.080	---	PASS
		5270	40.000	5250.000	5290.000	---	PASS

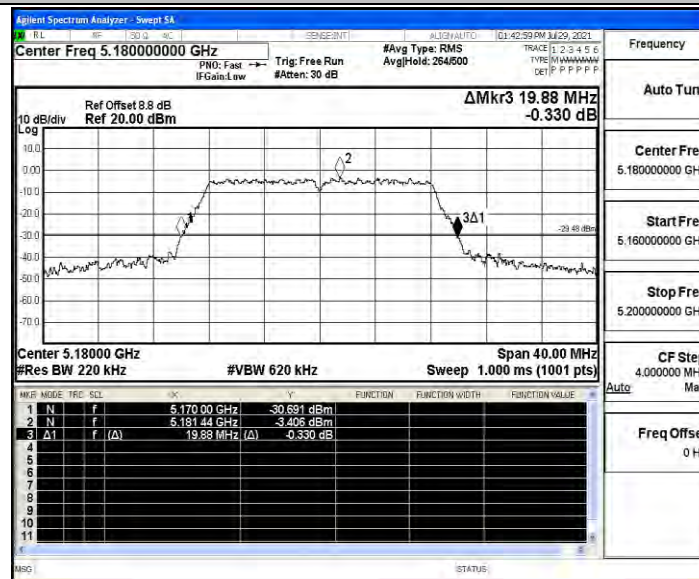


		5310	40.240	5289.760	5330.000	---	PASS
		5510	44.240	5485.840	5530.080	---	PASS
		5550	50.960	5521.200	5572.160	---	PASS
		5670	53.760	5639.760	5693.520	---	PASS
11AC80SISO	Ant1	5210	81.600	5169.520	5251.120	---	PASS
		5290	82.400	5249.840	5332.240	---	PASS
		5530	81.280	5489.360	5570.640	---	PASS

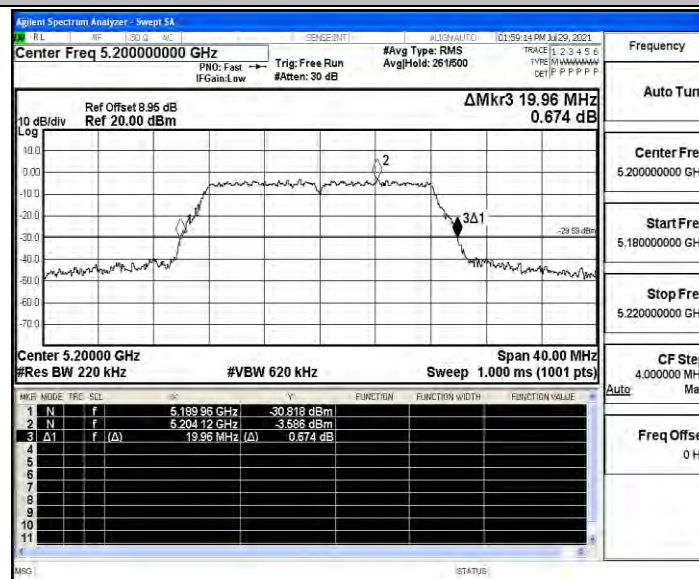


Test Graphs

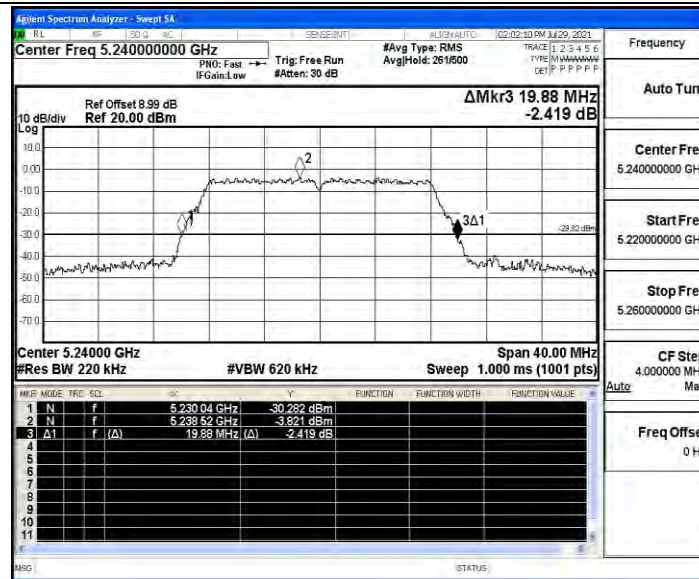
11A_Ant1_5180



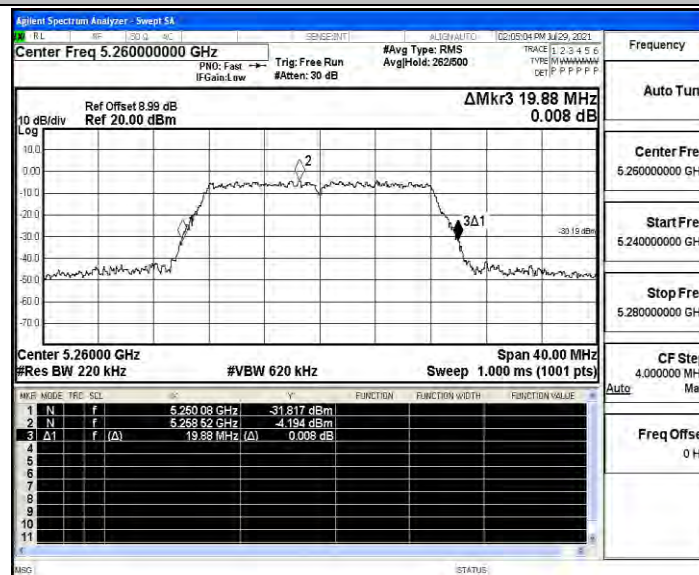
11A_Ant1_5200



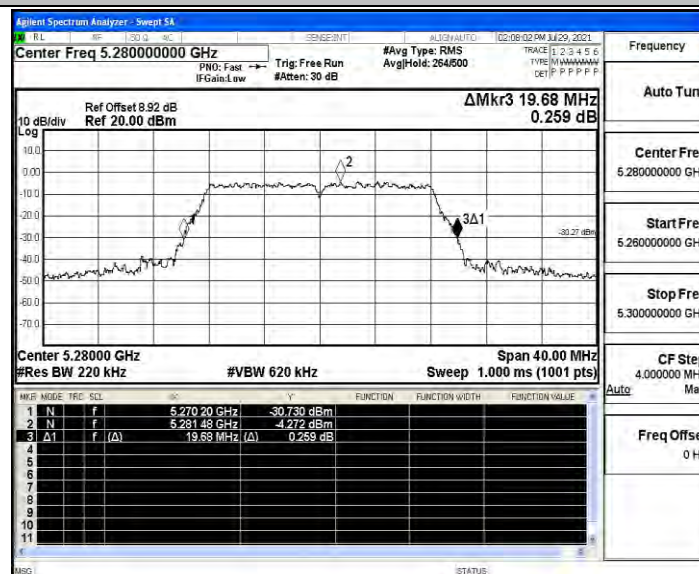
11A_Ant1_5240



11A_Ant1_5260

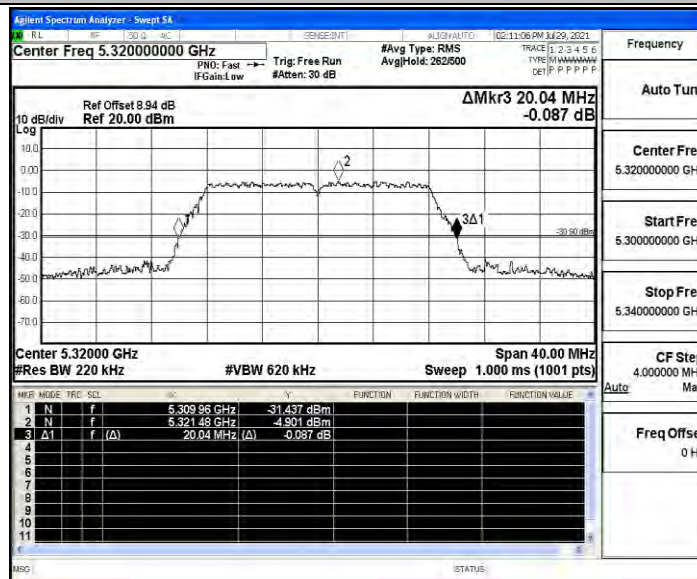


11A_Ant1_5280

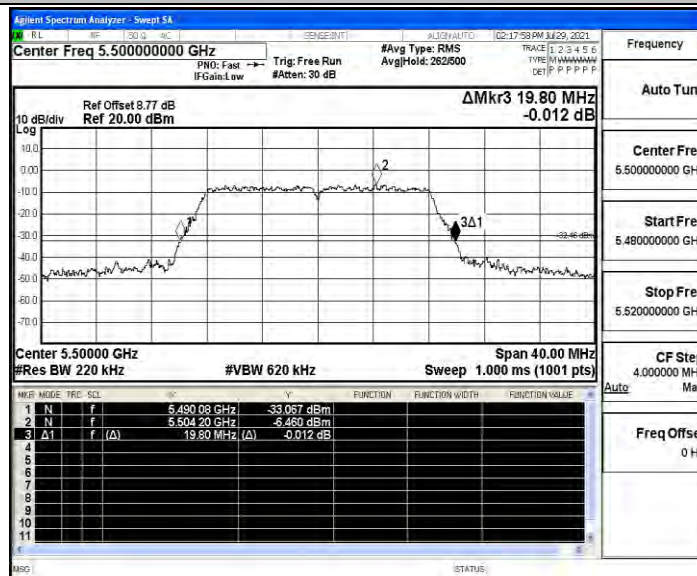




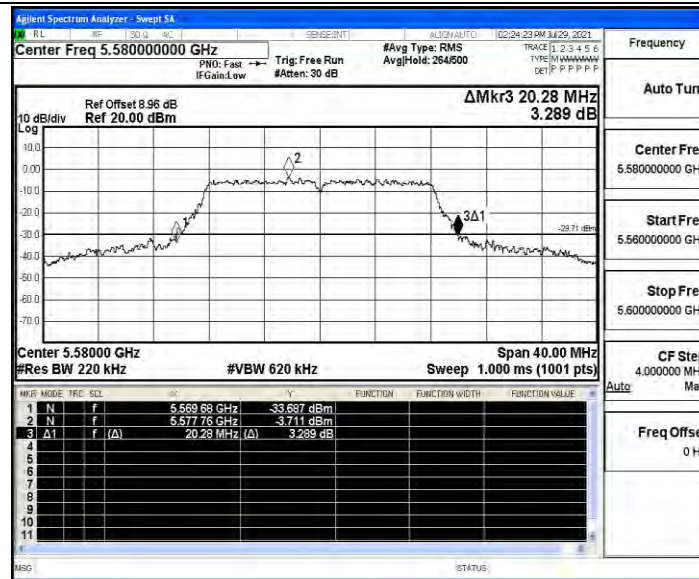
11A_Ant1_5320



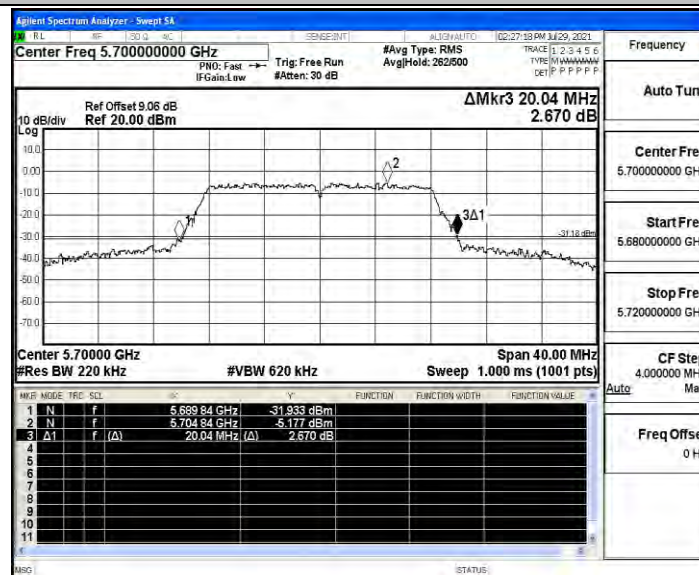
11A_Ant1_5500



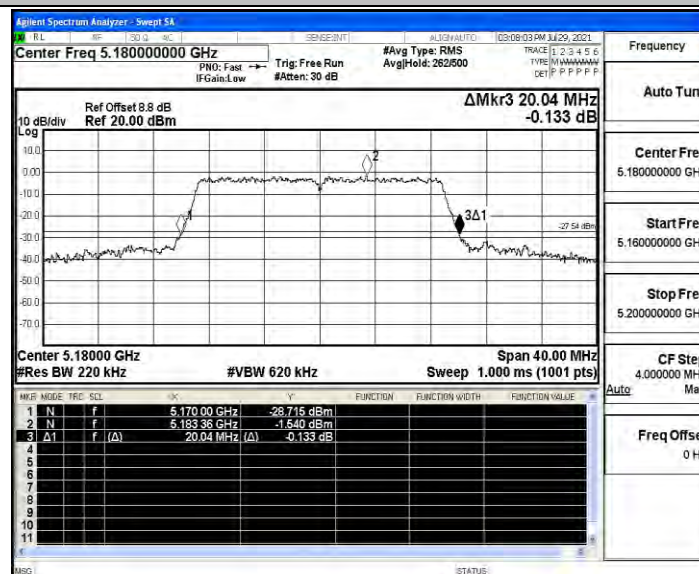
11A_Ant1_5580



11A_Ant1_5700

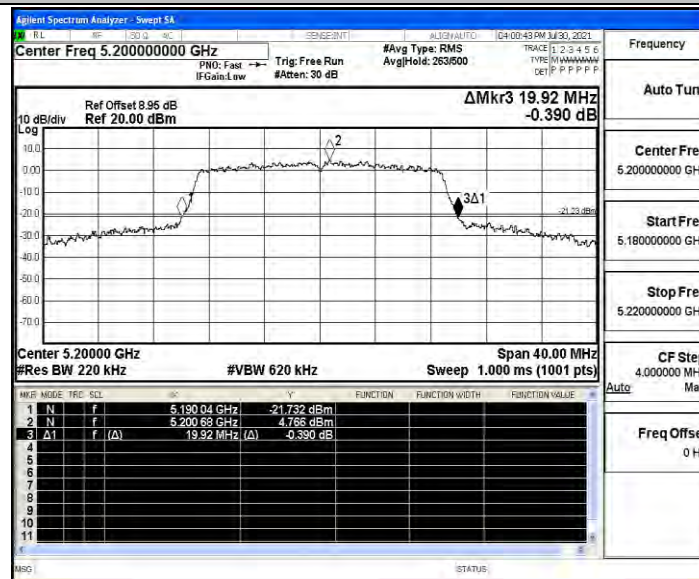


11N20SISO_Ant1_5180

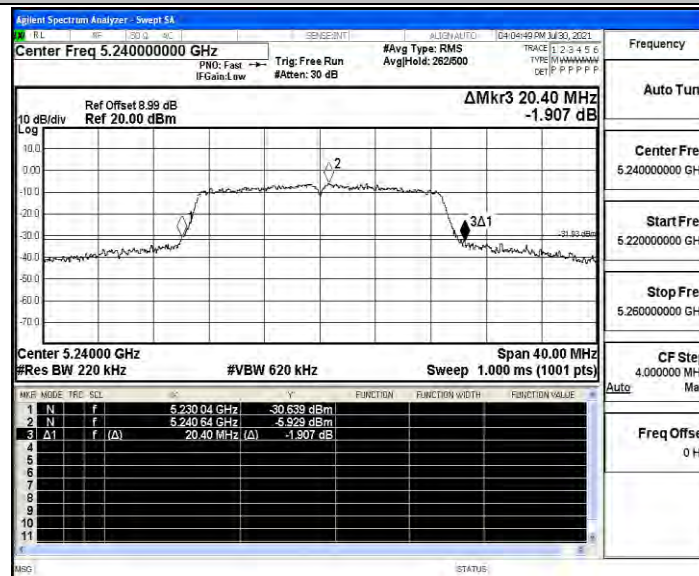




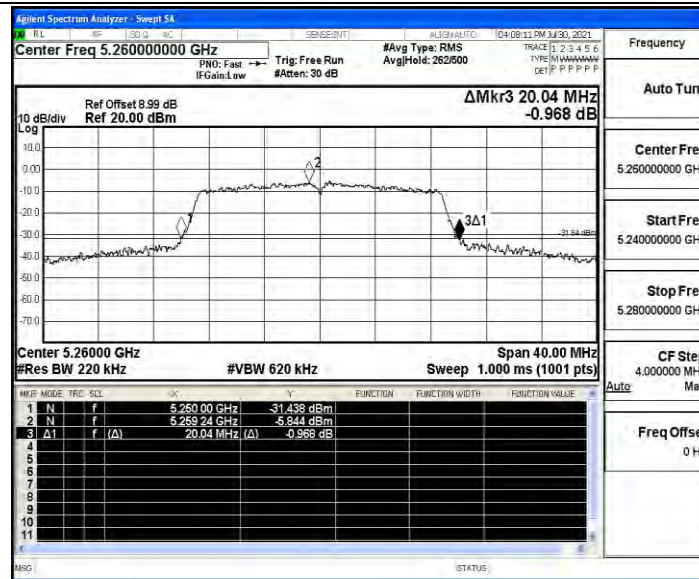
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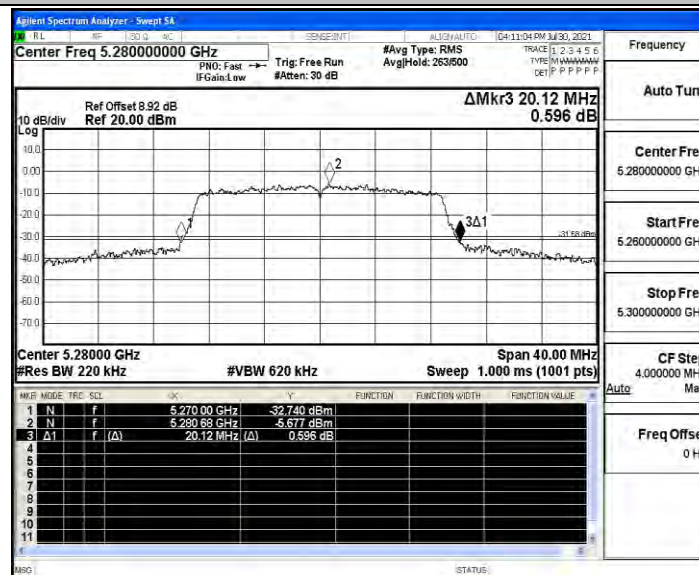
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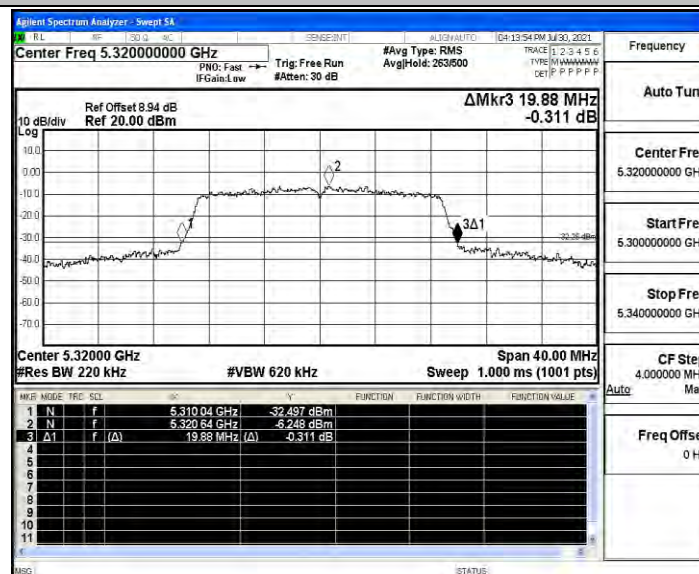
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280

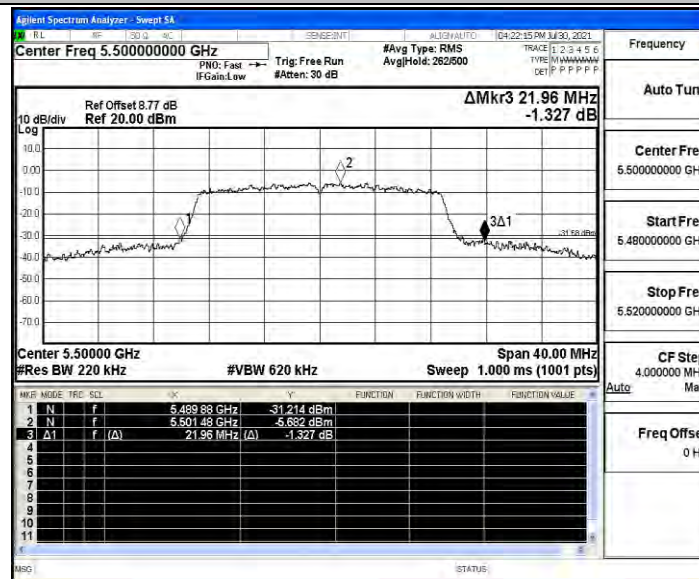


11N20SISO_Ant1_5320

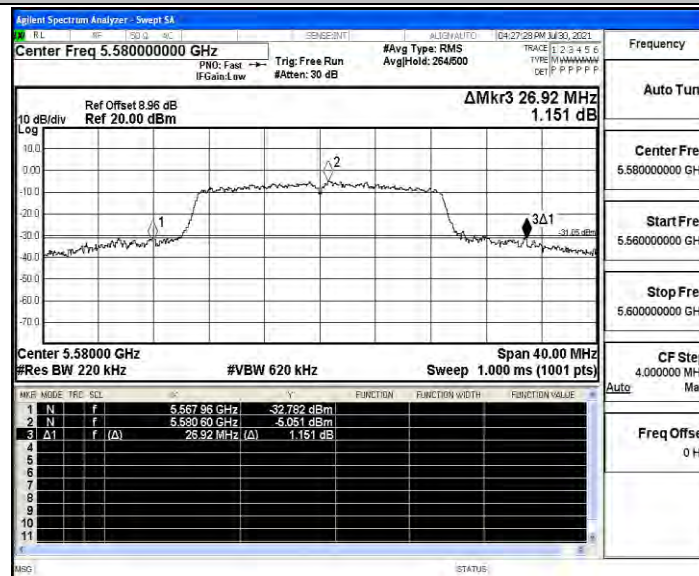




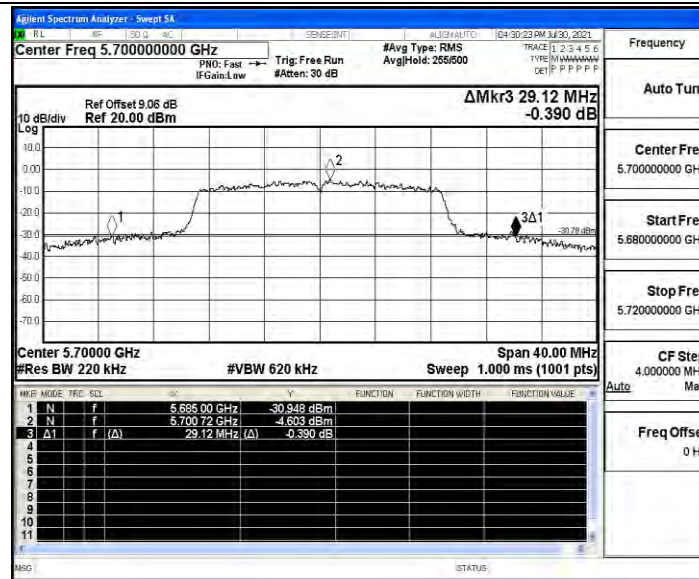
11N20SISO_Ant1_5500



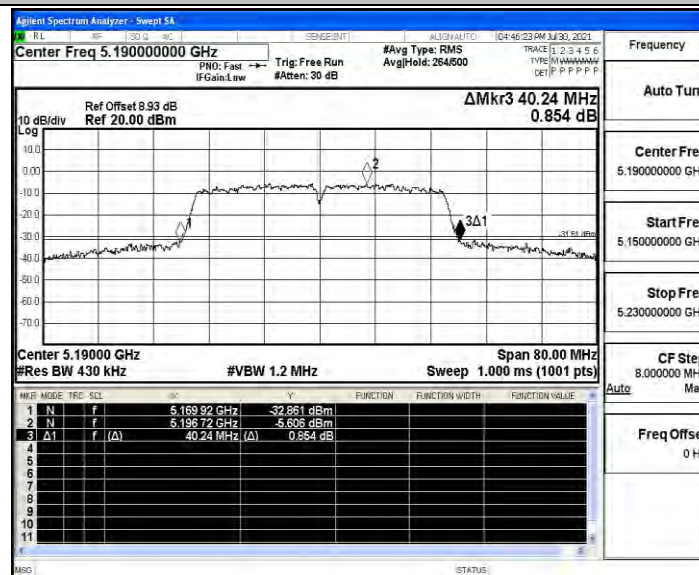
11N20SISO_Ant1_5580



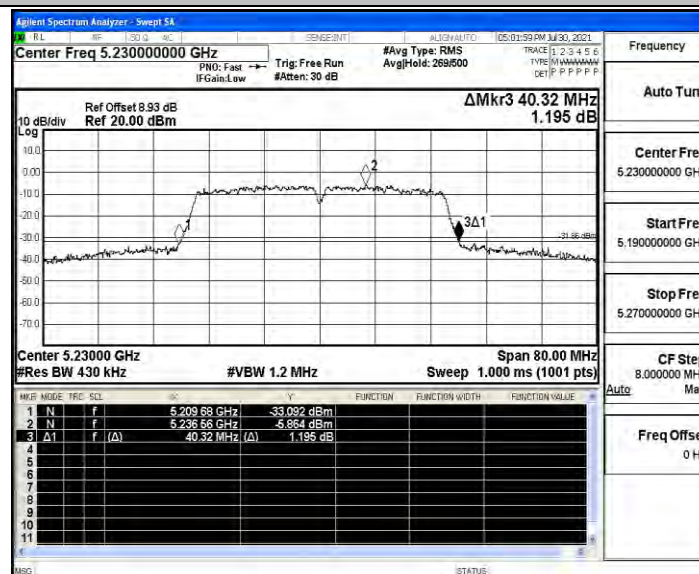
11N20SISO_Ant1_5700



11N40SISO_Ant1_5190

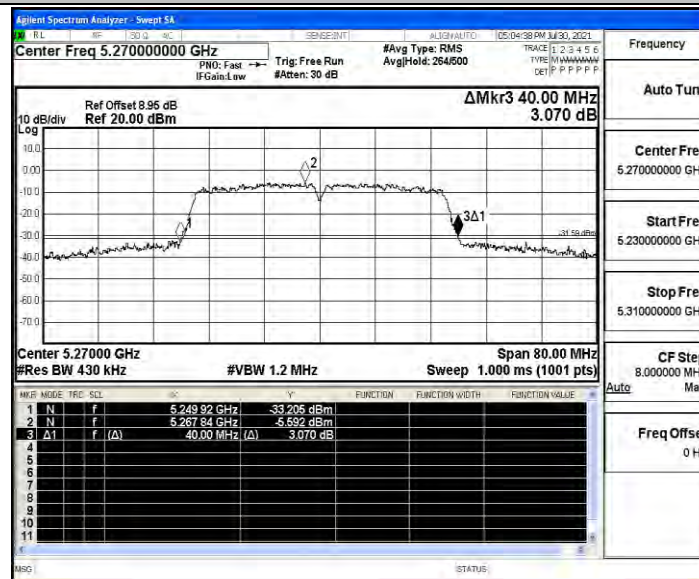


11N40SISO_Ant1_5230

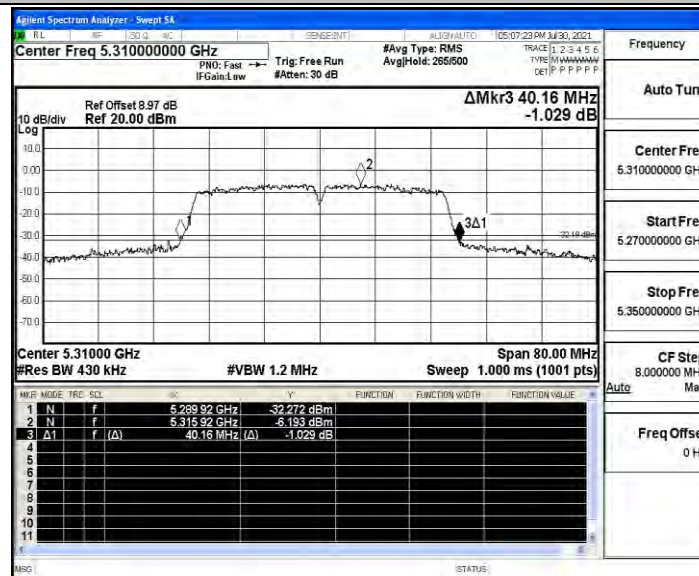




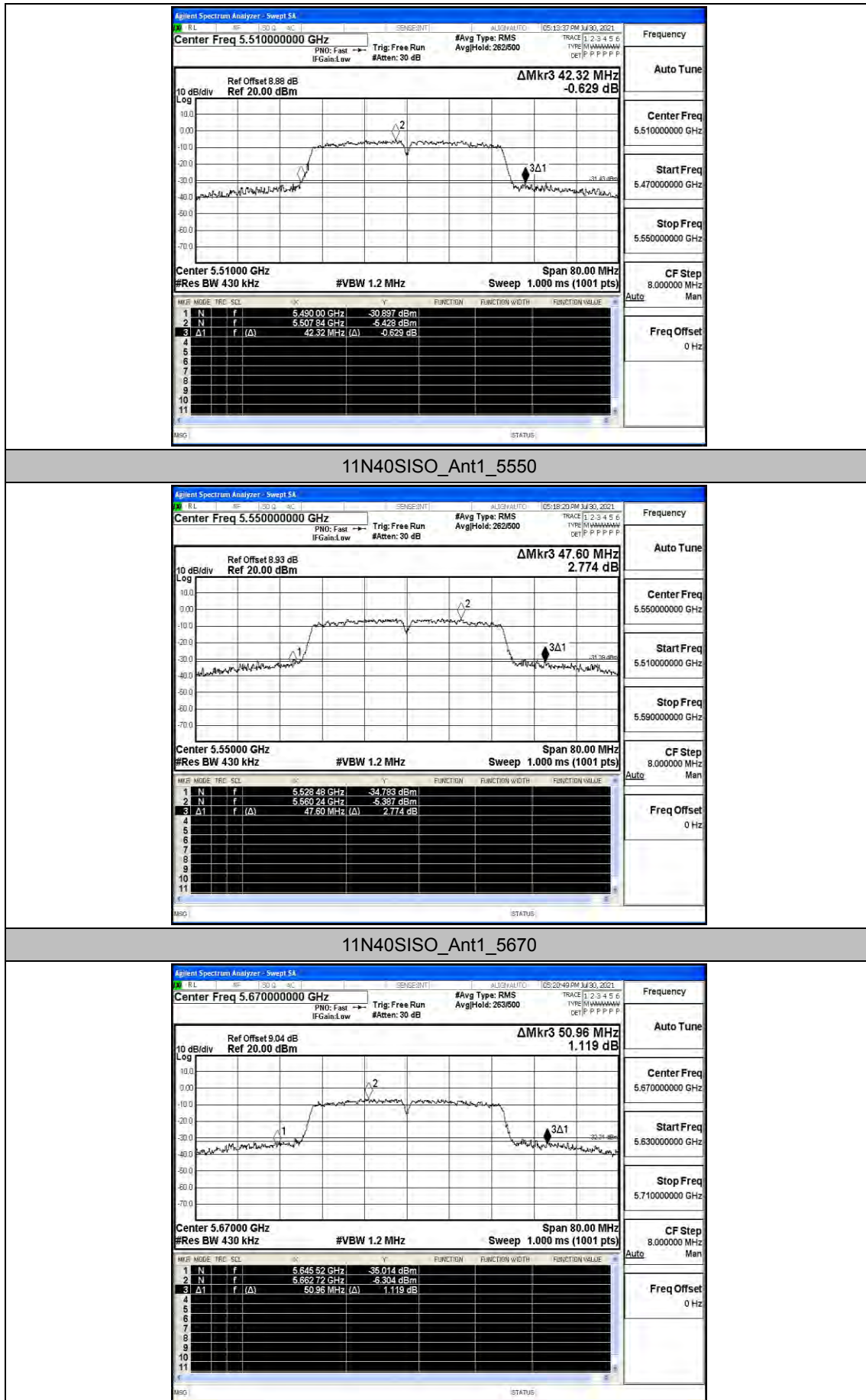
11N40SISO_Ant1_5270



11N40SISO_Ant1_5310

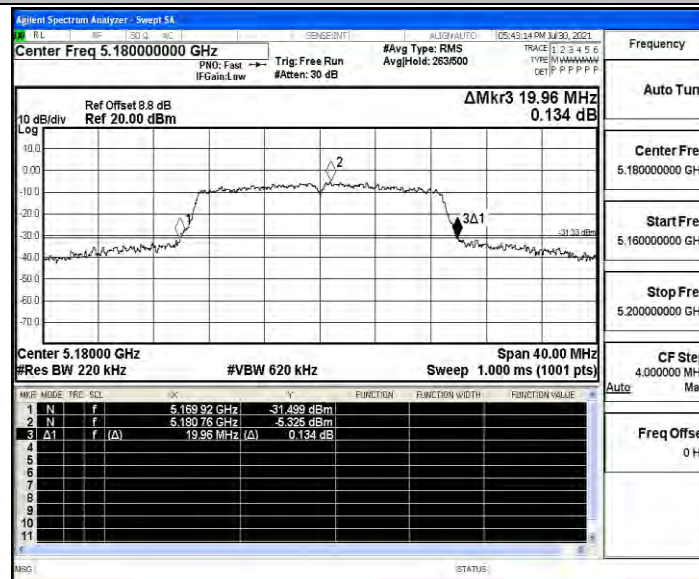


11N40SISO_Ant1_5510

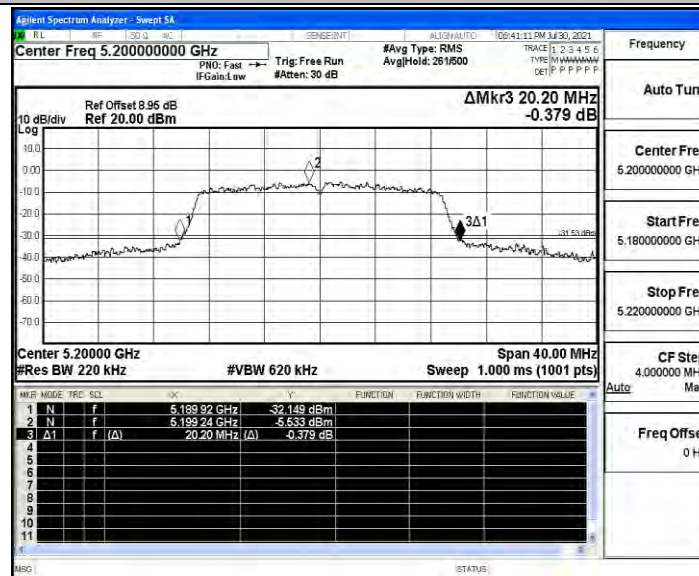




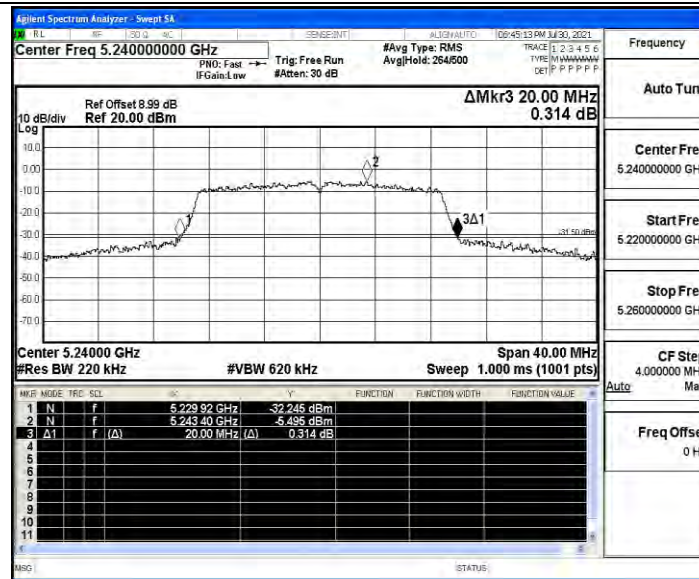
11AC20SISO_Ant1_5180



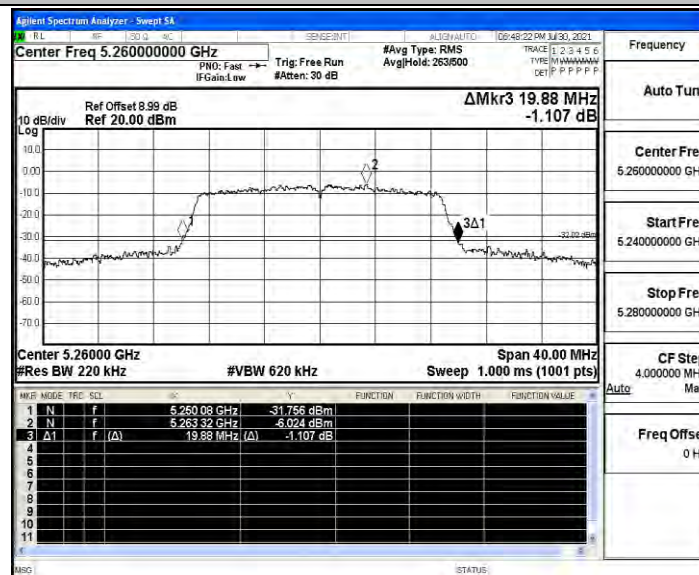
11AC20SISO_Ant1_5200



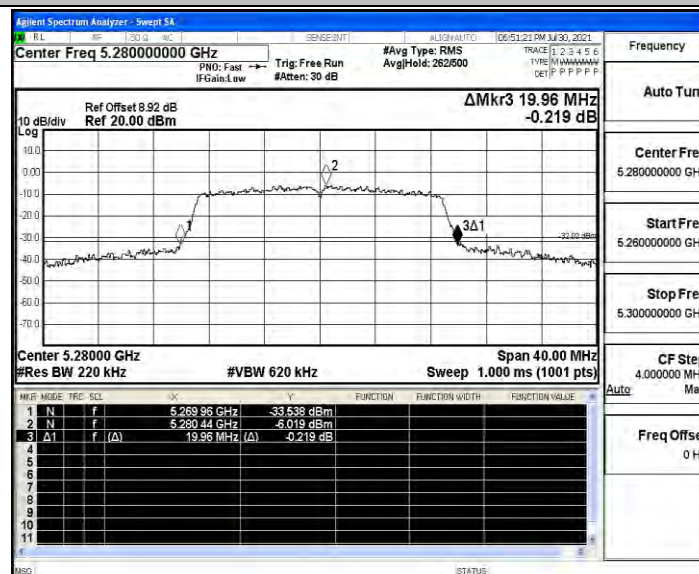
11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5260

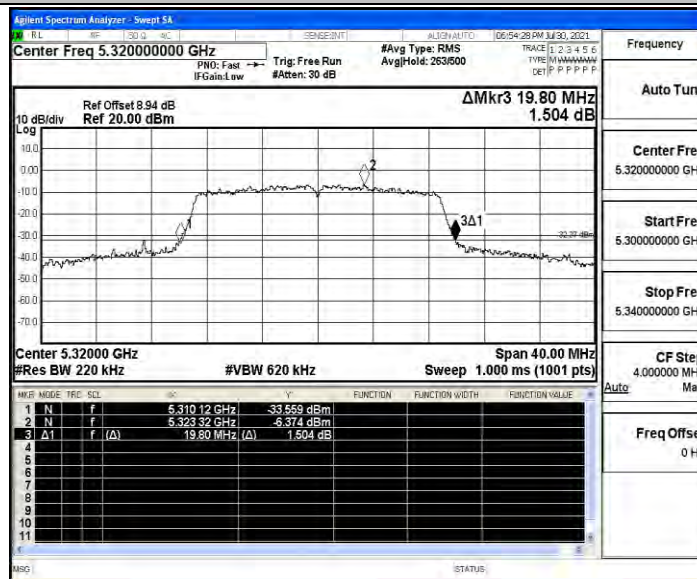


11AC20SISO_Ant1_5280

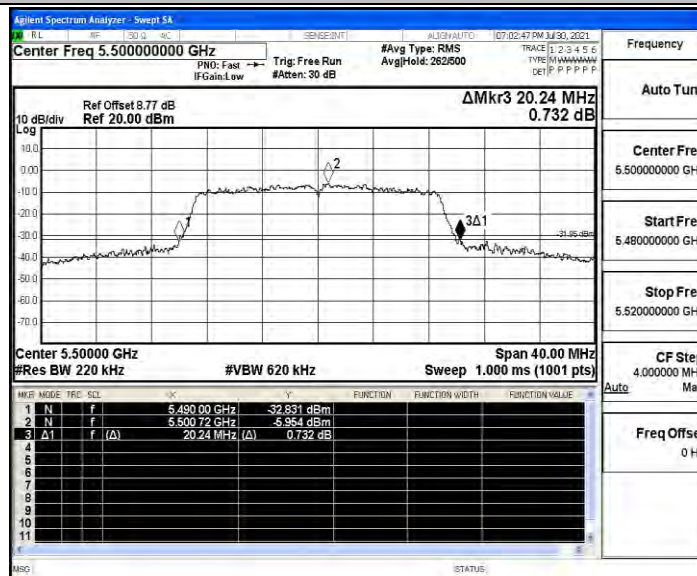




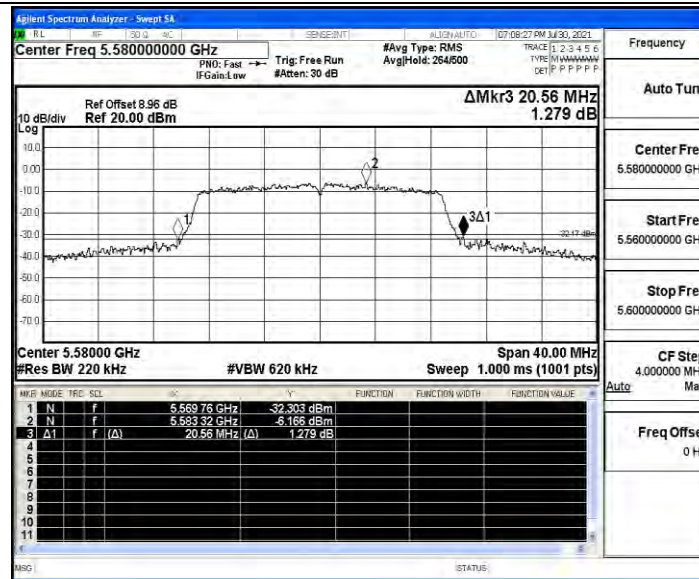
11AC20SISO_Ant1_5320



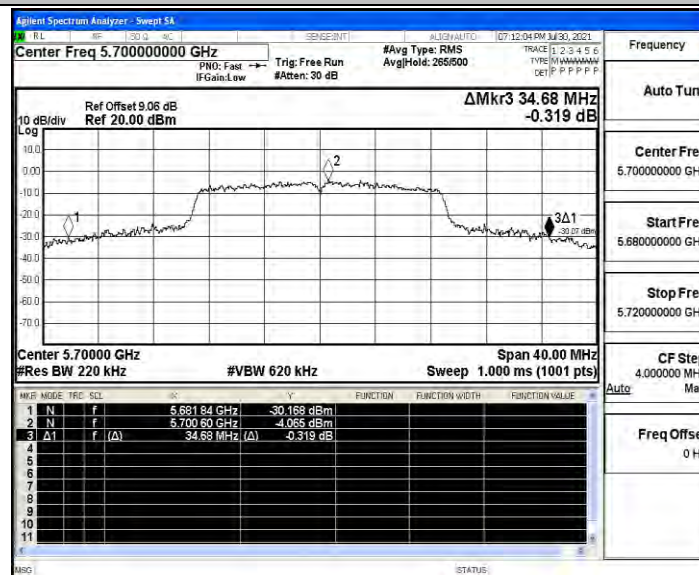
11AC20SISO_Ant1_5500



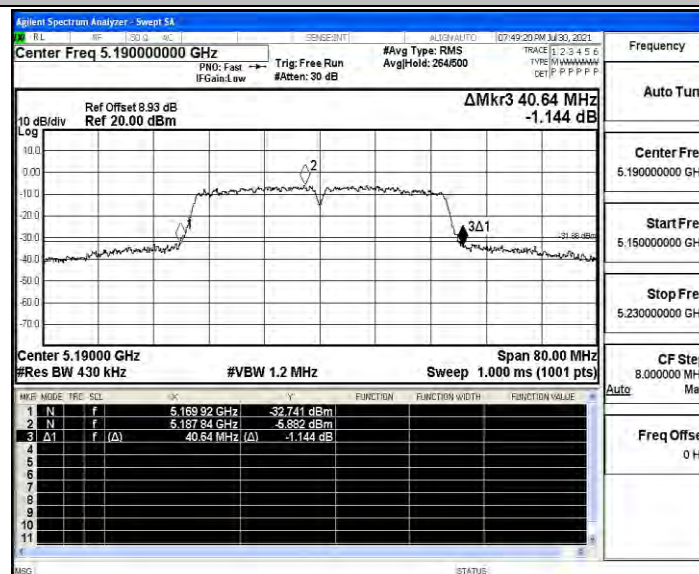
11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700

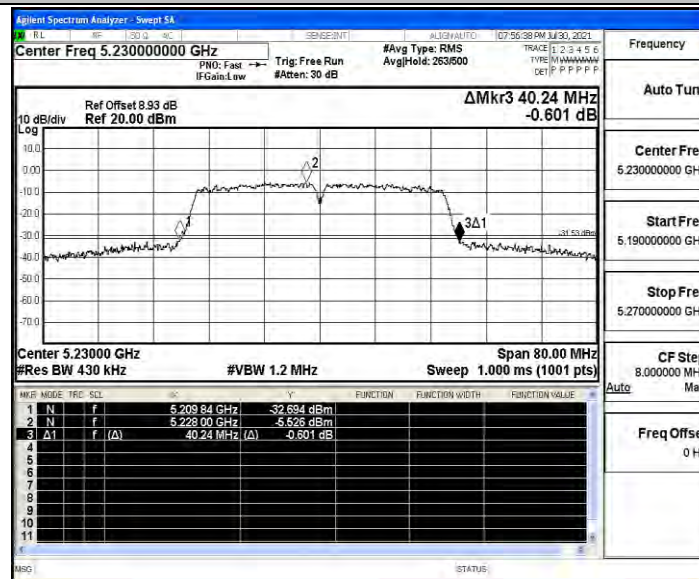


11AC40SISO_Ant1_5190

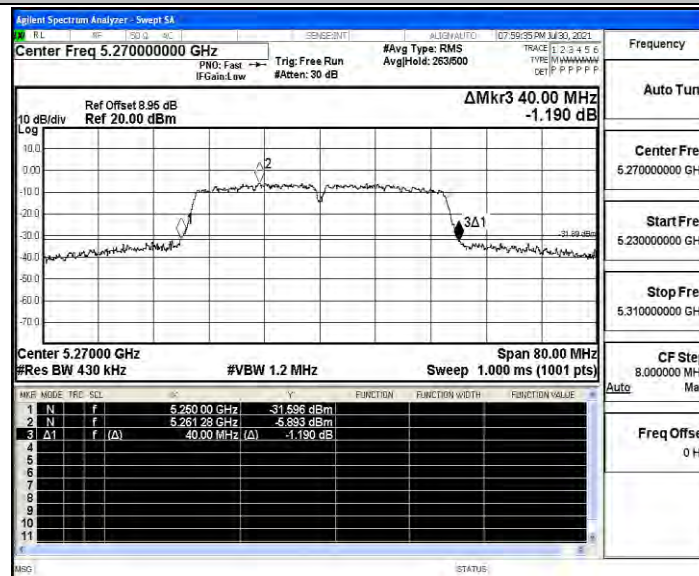




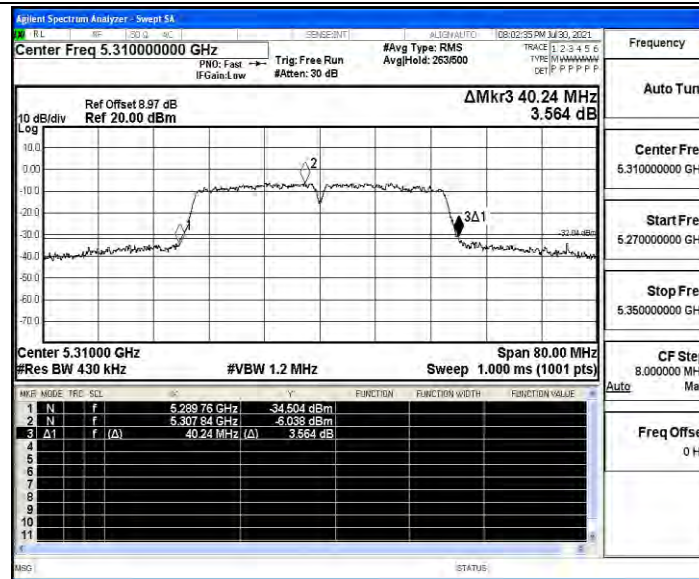
11AC40SISO_Ant1_5230



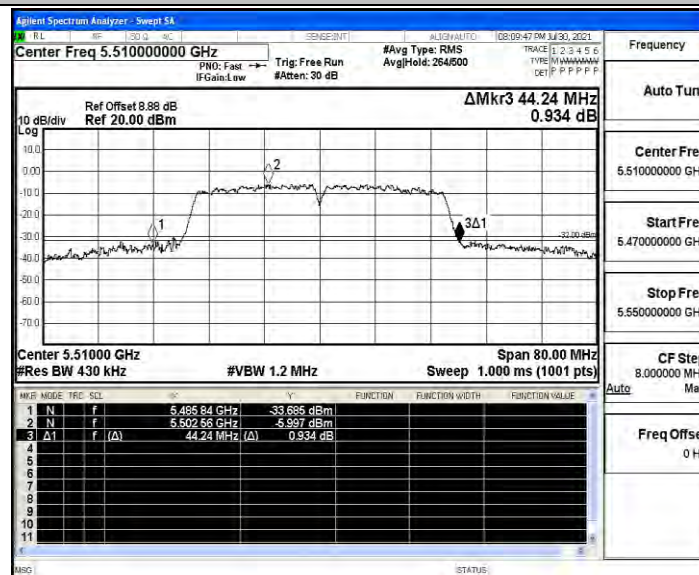
11AC40SISO_Ant1_5270



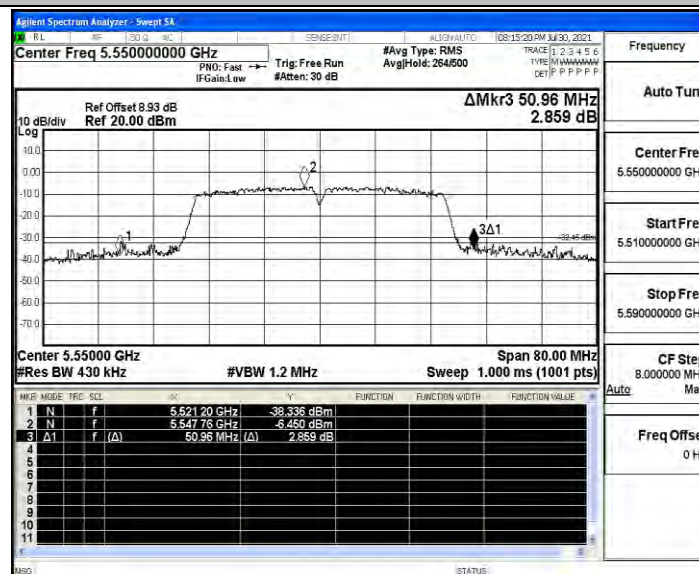
11AC40SISO_Ant1_5310



11AC40SISO_Ant1_5510

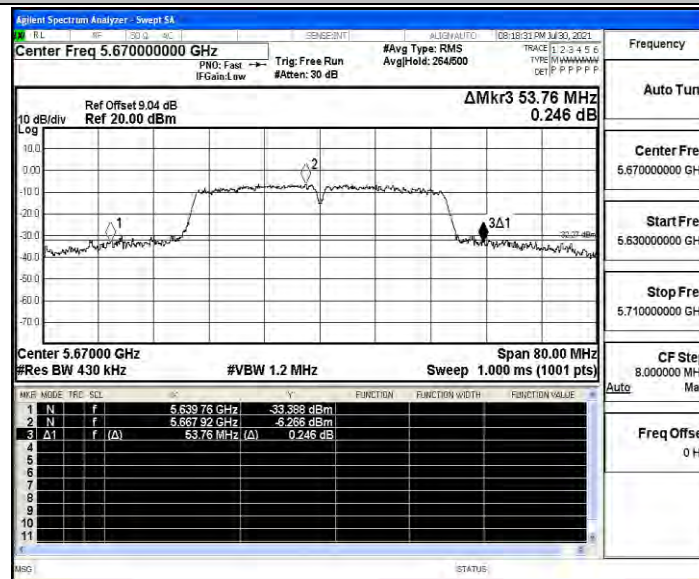


11AC40SISO_Ant1_5550

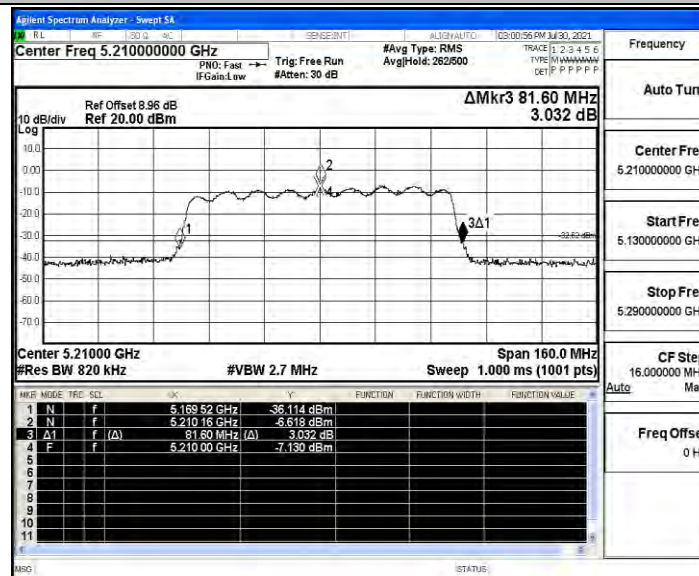




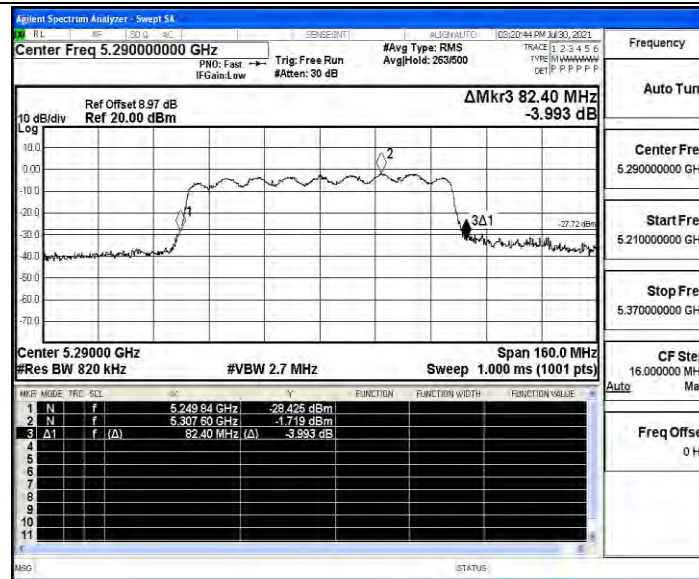
11AC40SISO_Ant1_5670



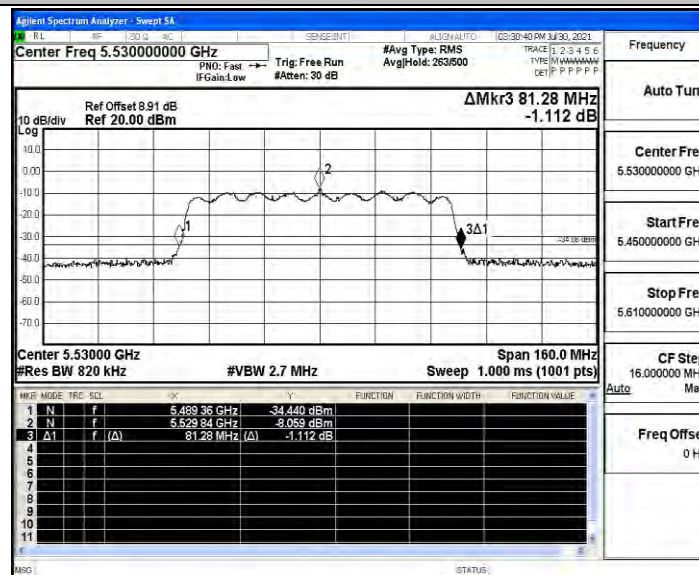
11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5290



11AC80SISO_Ant1_5530





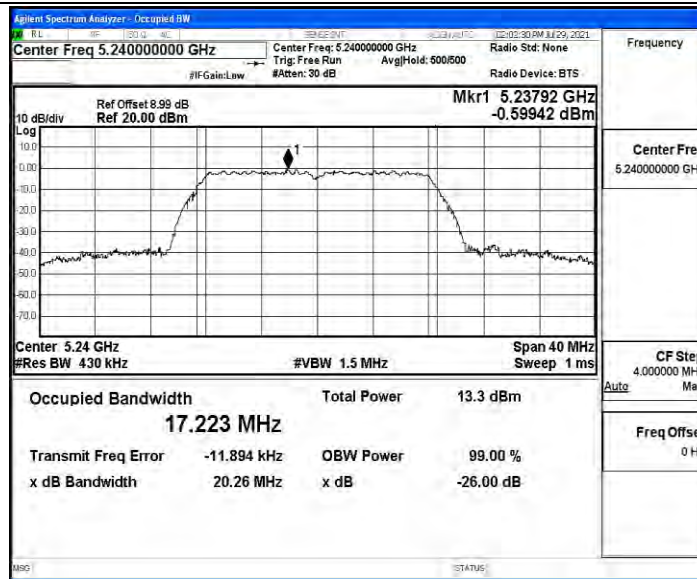
D.2 Occupied channel bandwidth

Test Result

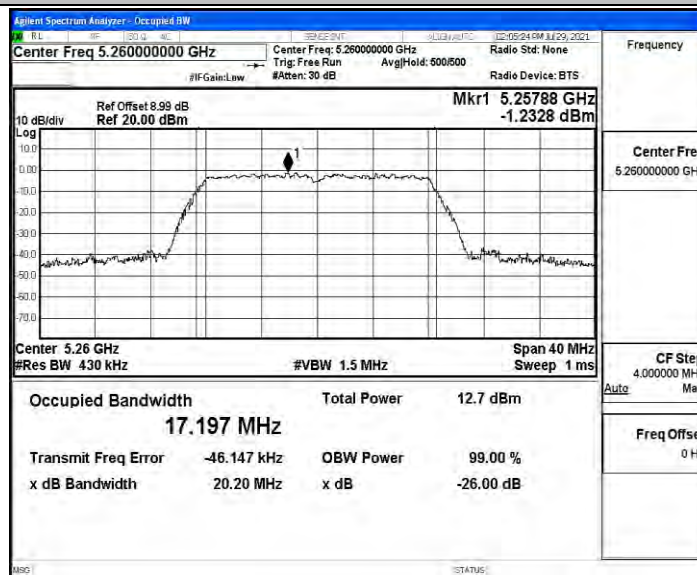
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.297	5171.301	5188.598	---	PASS
		5200	17.406	5191.267	5208.673	---	PASS
		5240	17.223	5231.377	5248.600	---	PASS
		5260	17.197	5251.355	5268.552	---	PASS
		5280	17.270	5271.312	5288.582	---	PASS
		5320	17.470	5311.214	5328.684	---	PASS
		5500	17.270	5491.319	5508.589	---	PASS
		5580	17.345	5571.275	5588.620	---	PASS
		5700	17.419	5691.233	5708.652	---	PASS
11N20SISO	Ant1	5180	17.955	5171.029	5188.984	---	PASS
		5200	17.805	5191.119	5208.924	---	PASS
		5240	17.811	5231.108	5248.919	---	PASS
		5260	17.807	5251.104	5268.911	---	PASS
		5280	17.820	5271.106	5288.926	---	PASS
		5320	17.805	5311.109	5328.914	---	PASS
		5500	17.885	5491.100	5508.985	---	PASS
		5580	17.960	5571.053	5589.013	---	PASS
		5700	18.138	5690.959	5709.097	---	PASS
11N40SISO	Ant1	5190	36.298	5171.937	5208.235	---	PASS
		5230	36.238	5211.943	5248.181	---	PASS
		5270	36.291	5251.924	5288.215	---	PASS
		5310	36.235	5291.958	5328.193	---	PASS
		5510	36.310	5491.899	5528.209	---	PASS
		5550	36.371	5531.894	5568.265	---	PASS
		5670	36.460	5651.788	5688.248	---	PASS
11AC20SISO	Ant1	5180	17.852	5171.084	5188.936	---	PASS
		5200	17.824	5191.119	5208.943	---	PASS
		5240	17.824	5231.098	5248.922	---	PASS
		5260	17.793	5251.102	5268.895	---	PASS
		5280	17.803	5271.108	5288.911	---	PASS
		5320	17.793	5311.117	5328.910	---	PASS
		5500	17.824	5491.114	5508.938	---	PASS
		5580	17.869	5571.074	5588.943	---	PASS
		5700	18.856	5690.609	5709.465	---	PASS
11AC40SISO	Ant1	5190	36.276	5171.931	5208.207	---	PASS
		5230	36.251	5211.938	5248.189	---	PASS
		5270	36.258	5251.928	5288.186	---	PASS
		5310	36.250	5291.963	5328.213	---	PASS



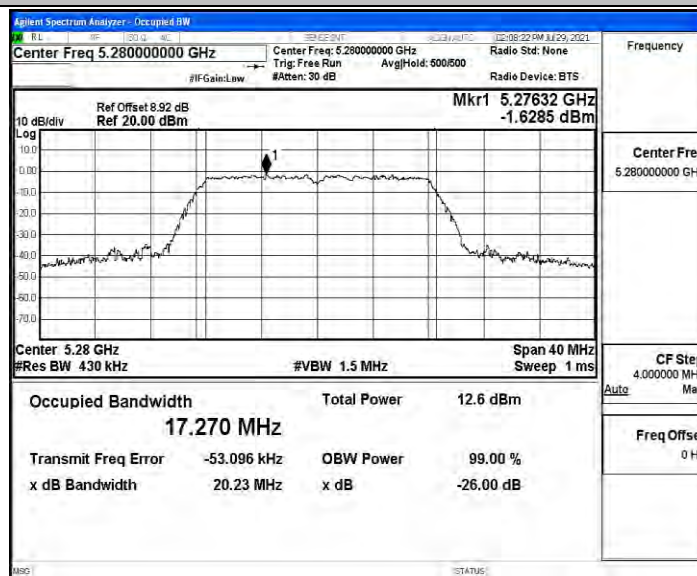
		5510	36.323	5491.910	5528.233	---	PASS
		5550	36.311	5531.934	5568.245	---	PASS
		5670	36.518	5651.755	5688.273	---	PASS
11AC80SISO	Ant1	5210	75.156	5172.754	5247.910	---	PASS
		5290	75.177	5252.721	5327.898	---	PASS
		5530	75.208	5492.434	5567.642	---	PASS



11A_Ant1_5260

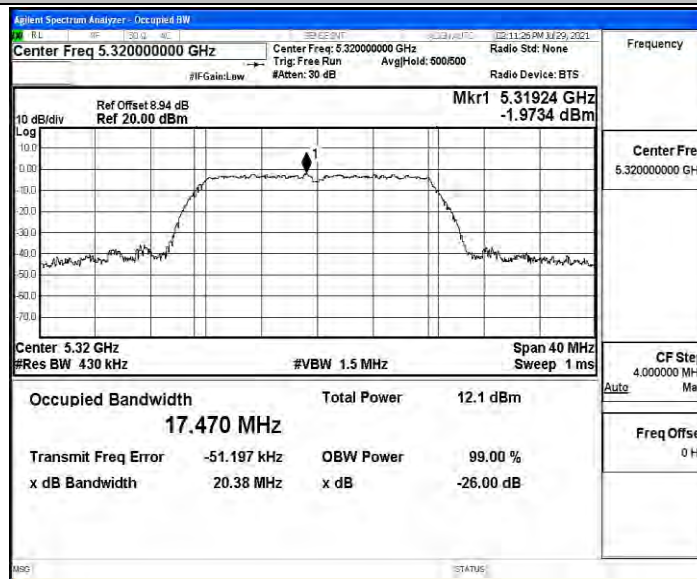


11A_Ant1_5280

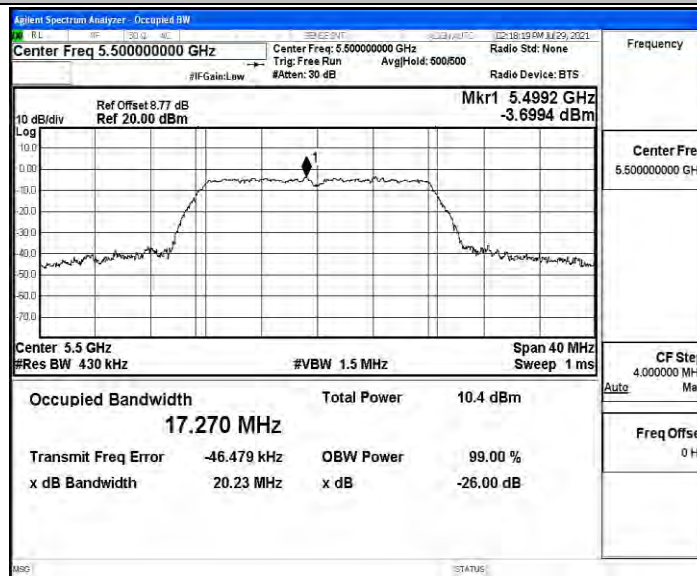




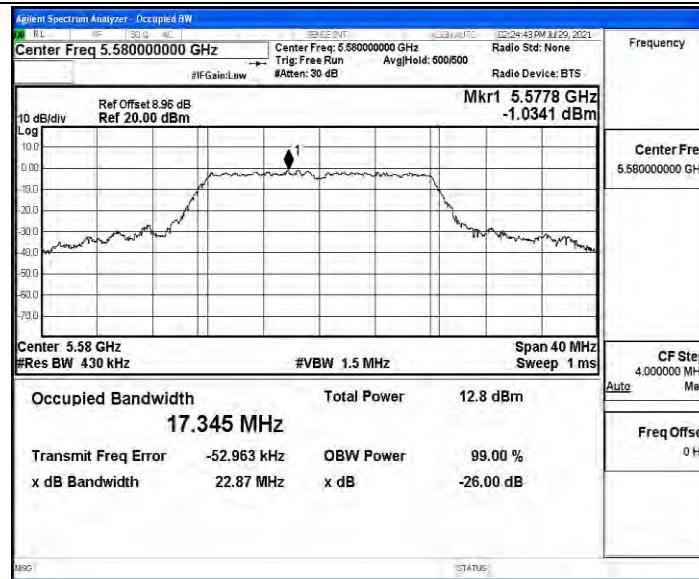
11A_Ant1_5320



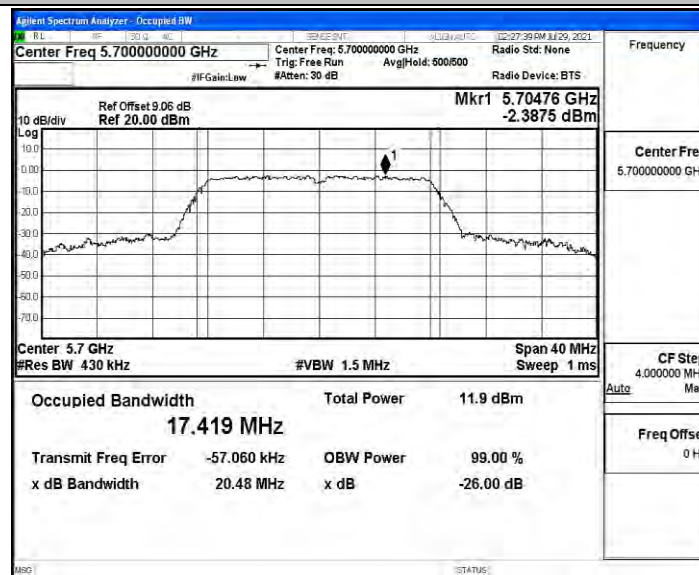
11A_Ant1_5500



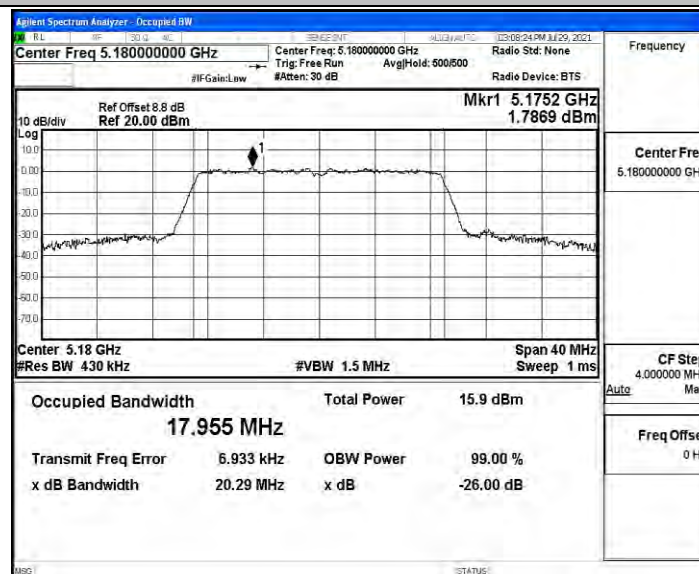
11A_Ant1_5580



11A_Ant1_5700

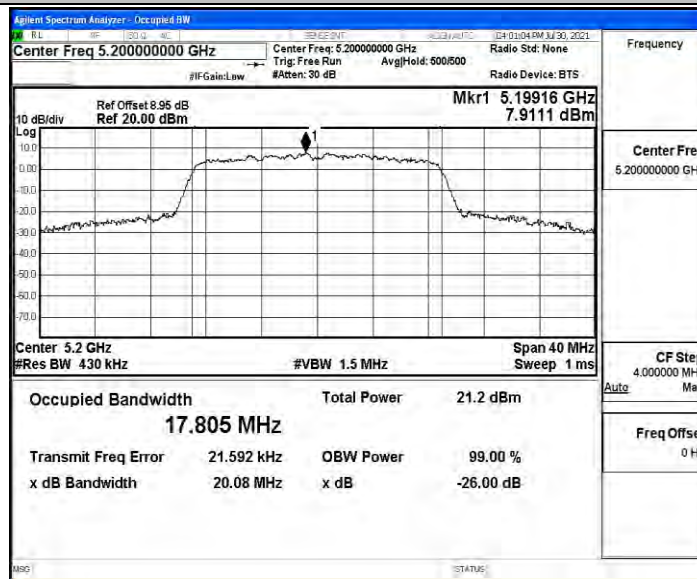


11N20SISO_Ant1_5180

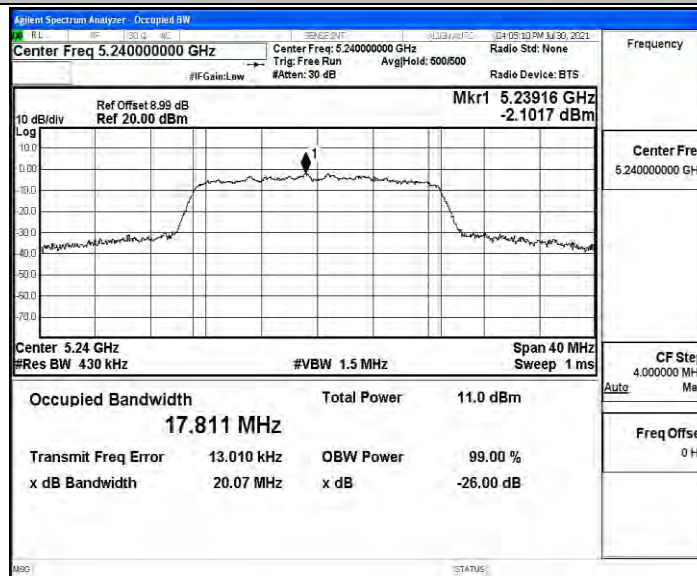




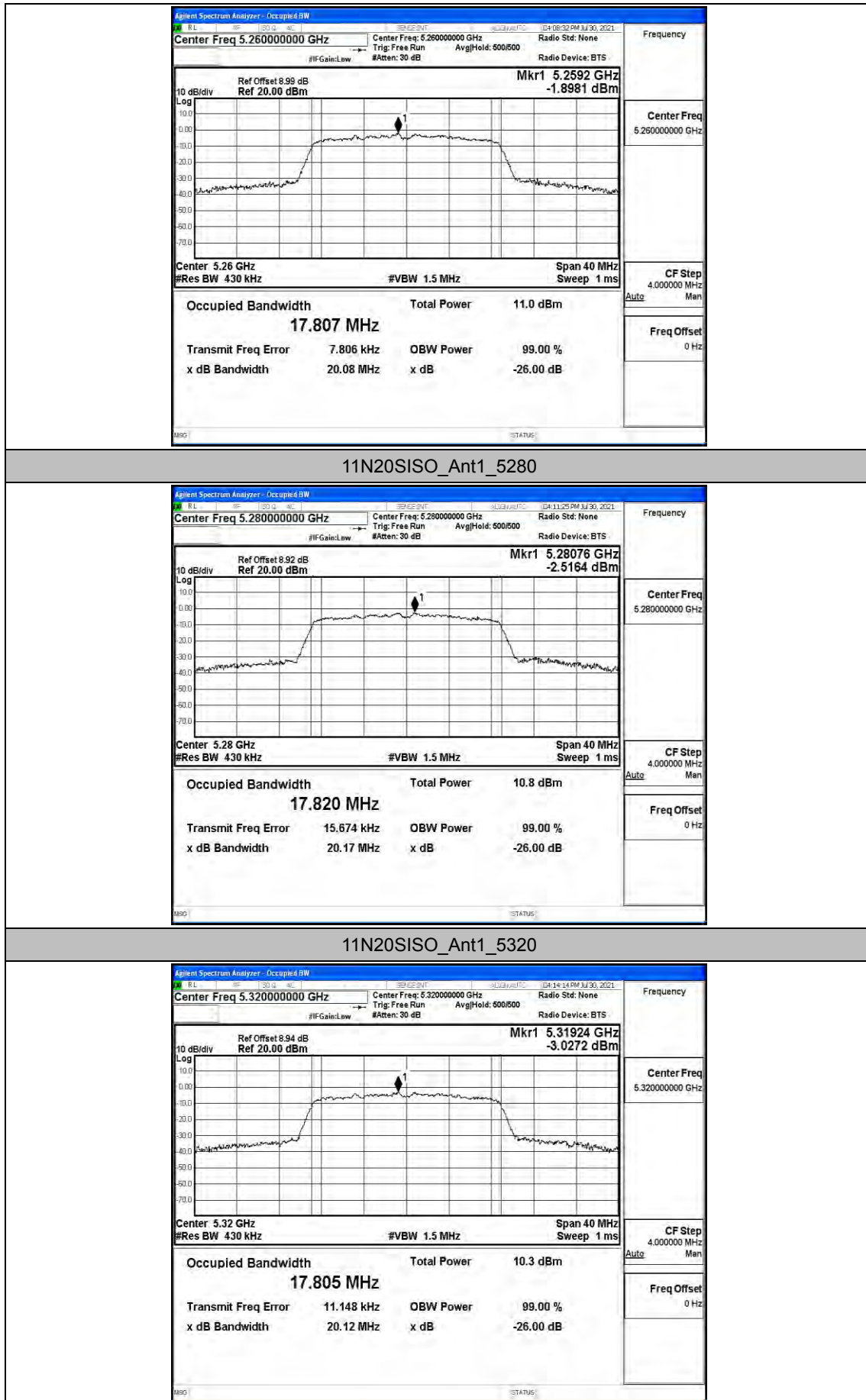
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240

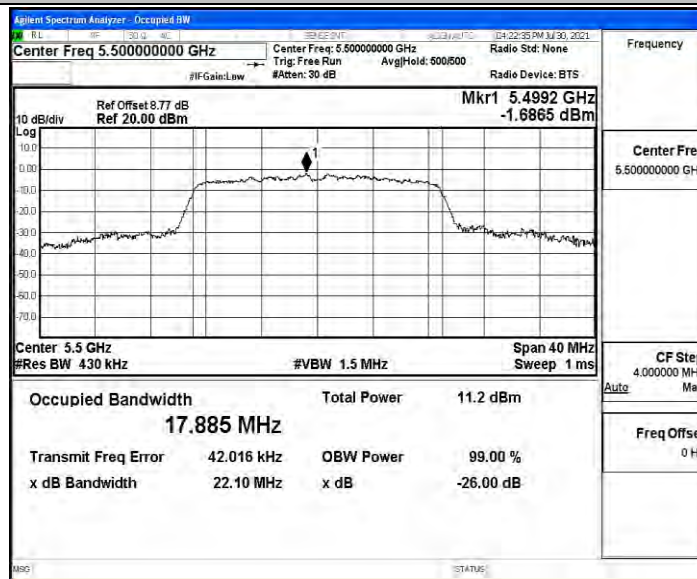


11N20SISO_Ant1_5260

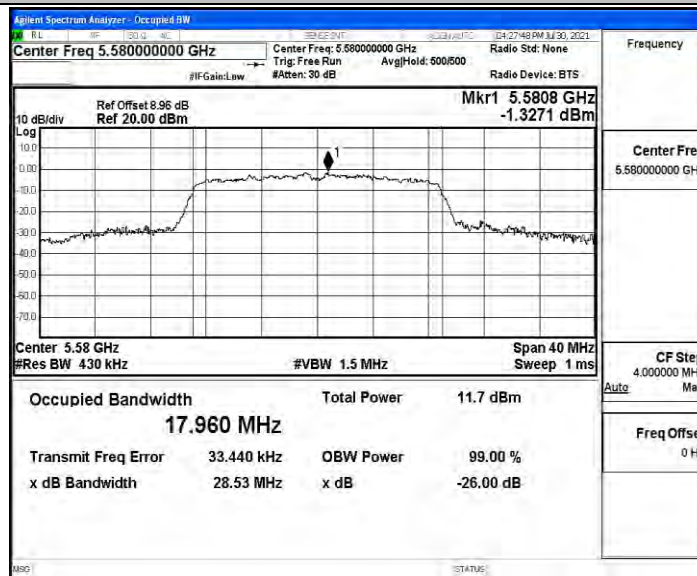




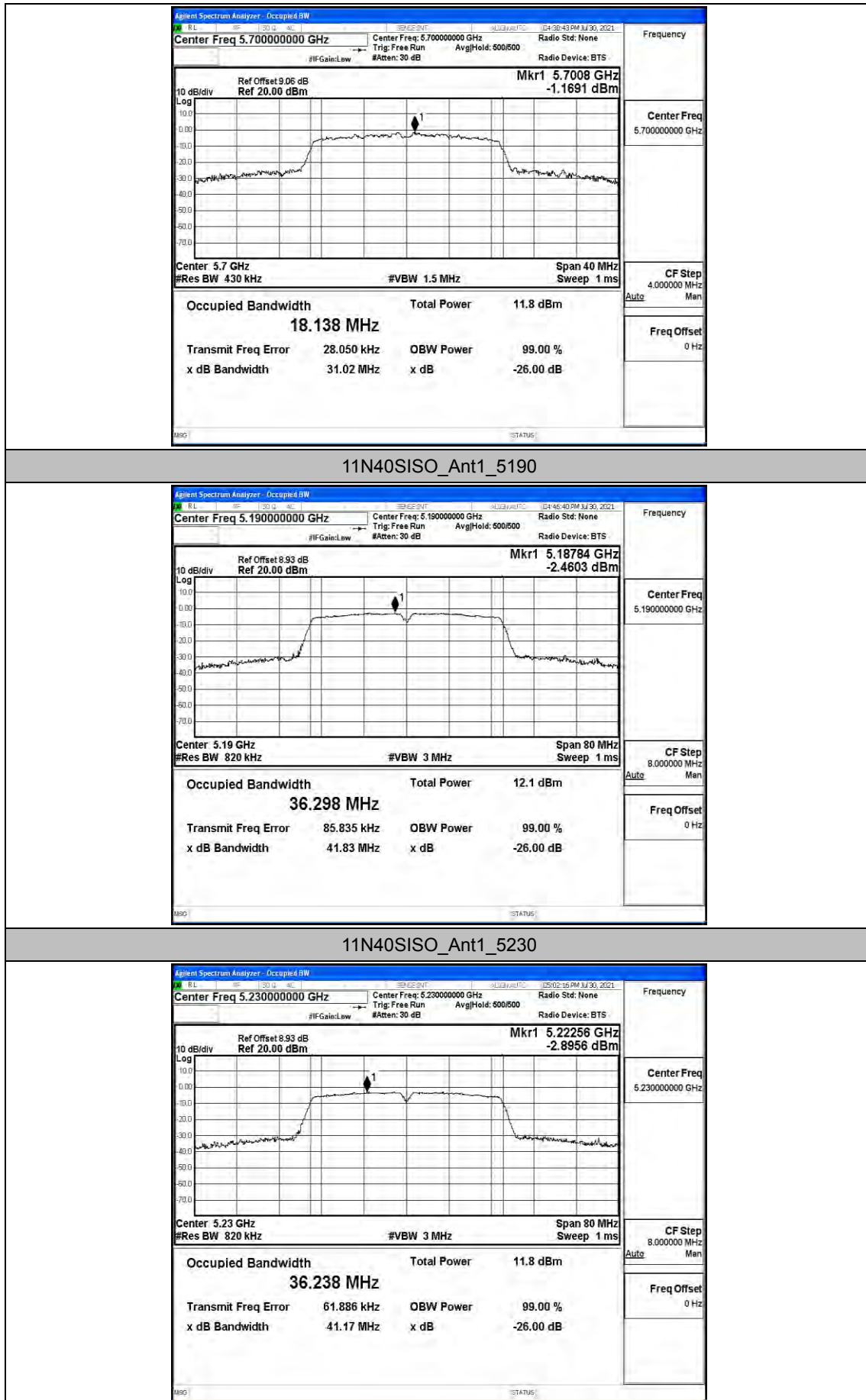
11N20SISO_Ant1_5500



11N20SISO_Ant1_5580

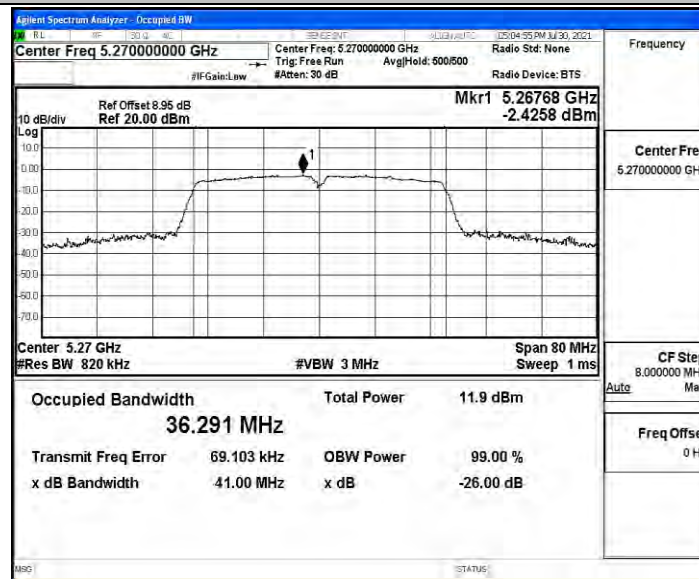


11N20SISO_Ant1_5700

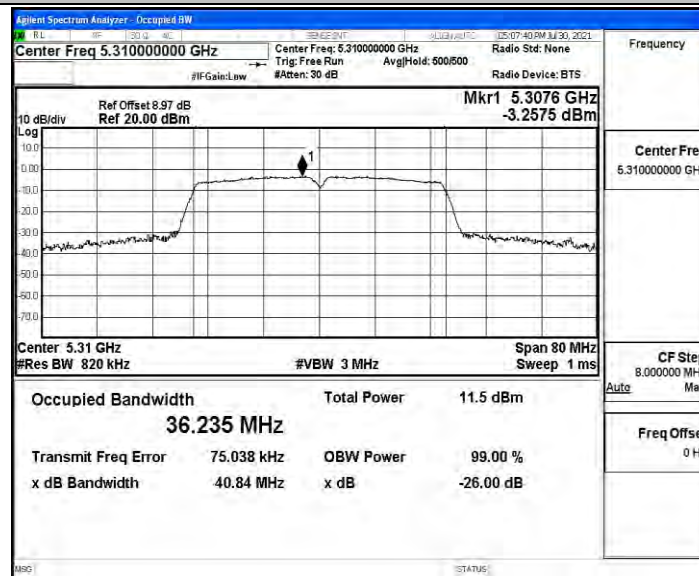




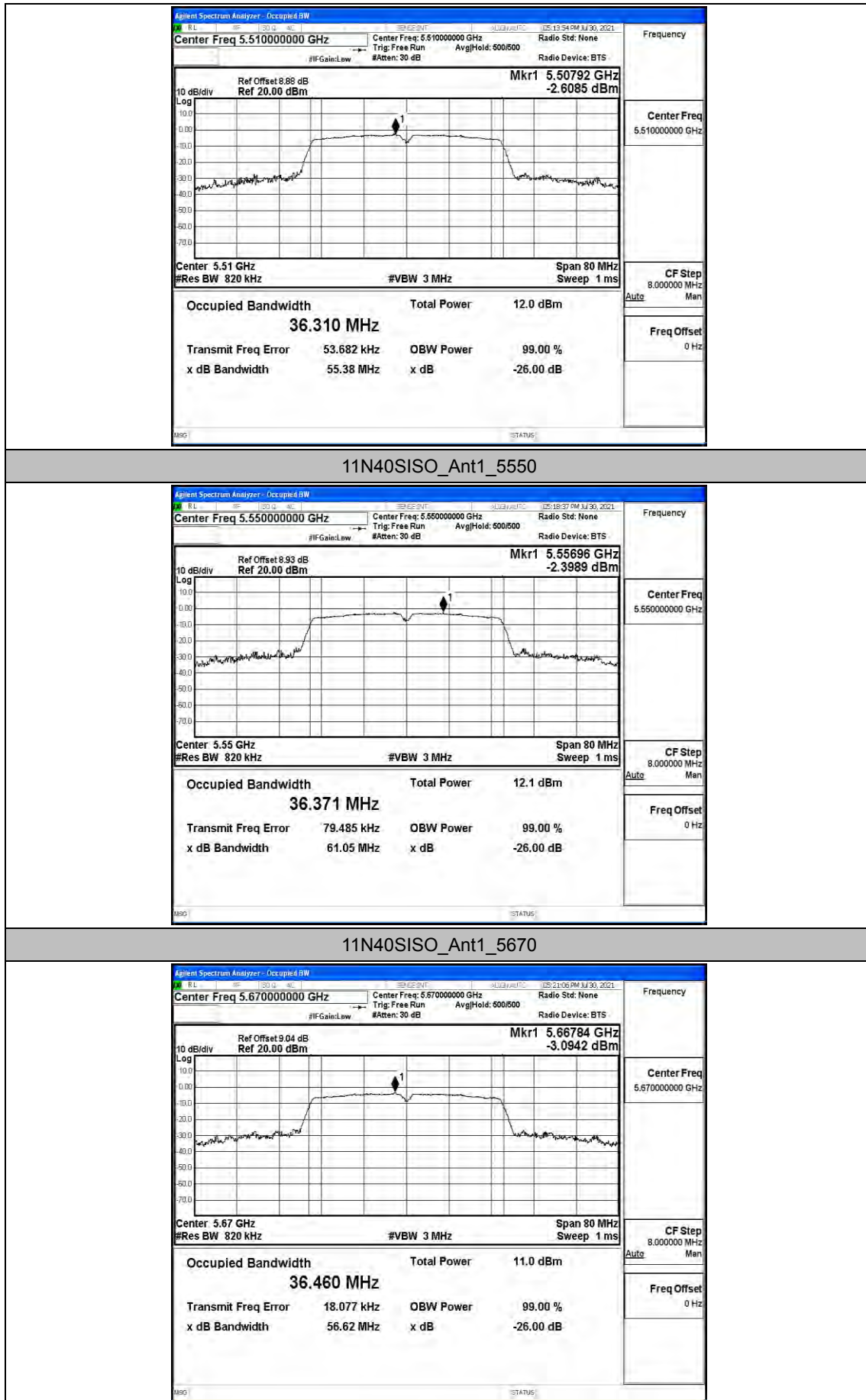
11N40SISO_Ant1_5270



11N40SISO_Ant1_5310

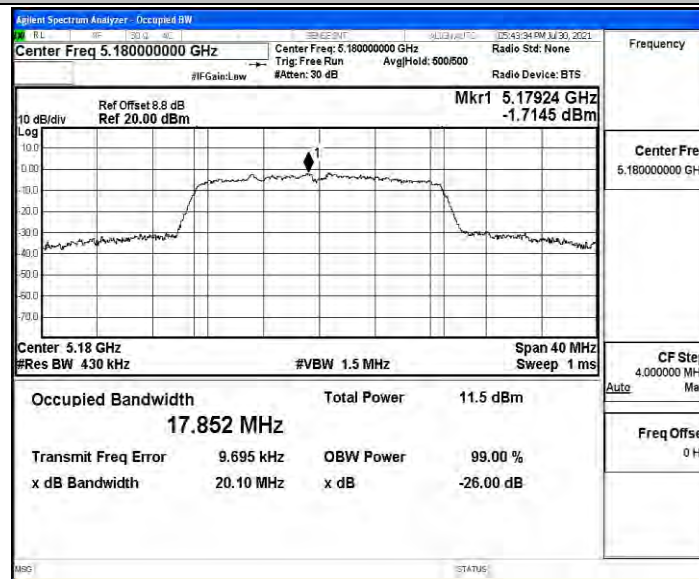


11N40SISO_Ant1_5510

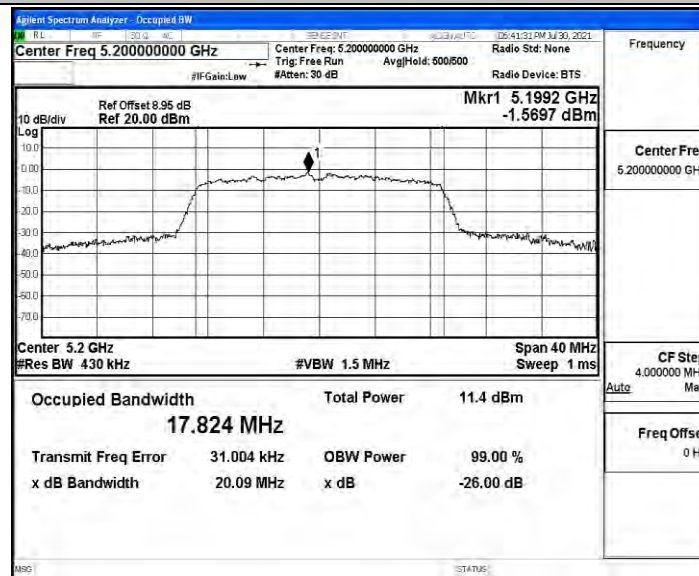




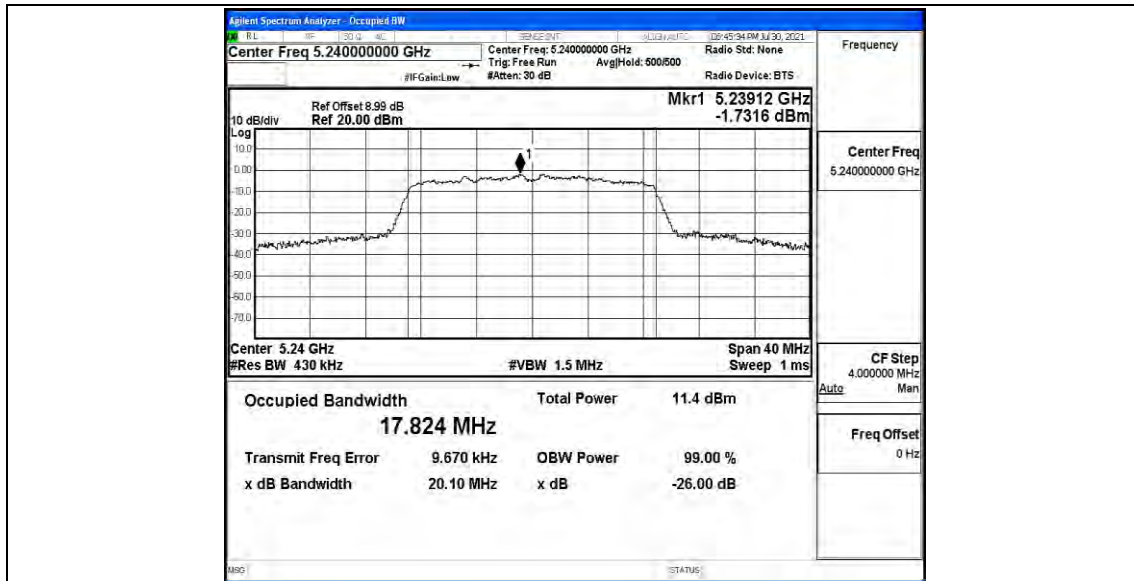
11AC20SISO_Ant1_5180



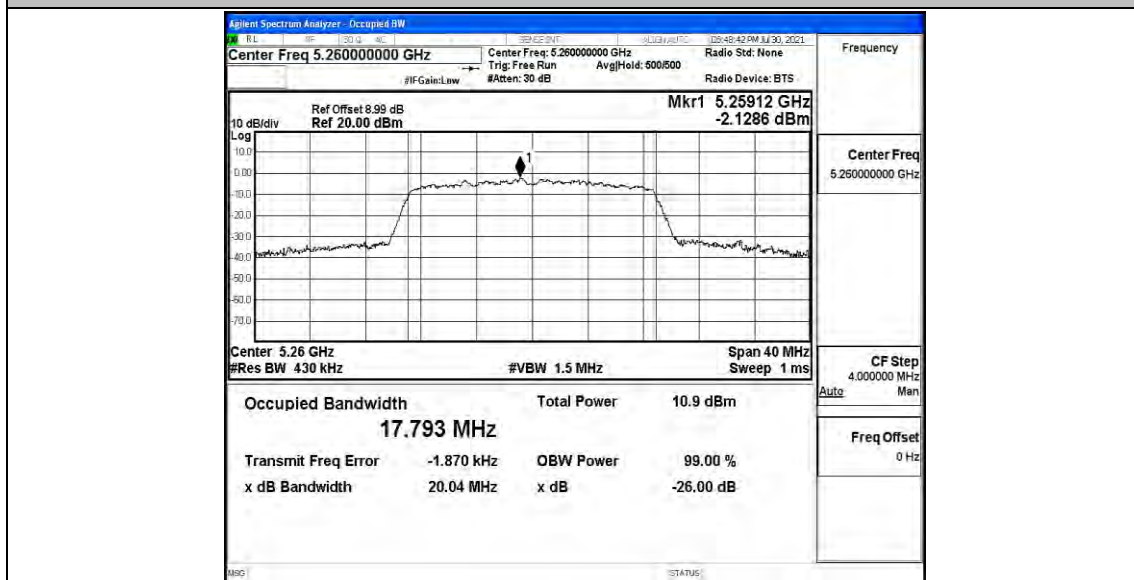
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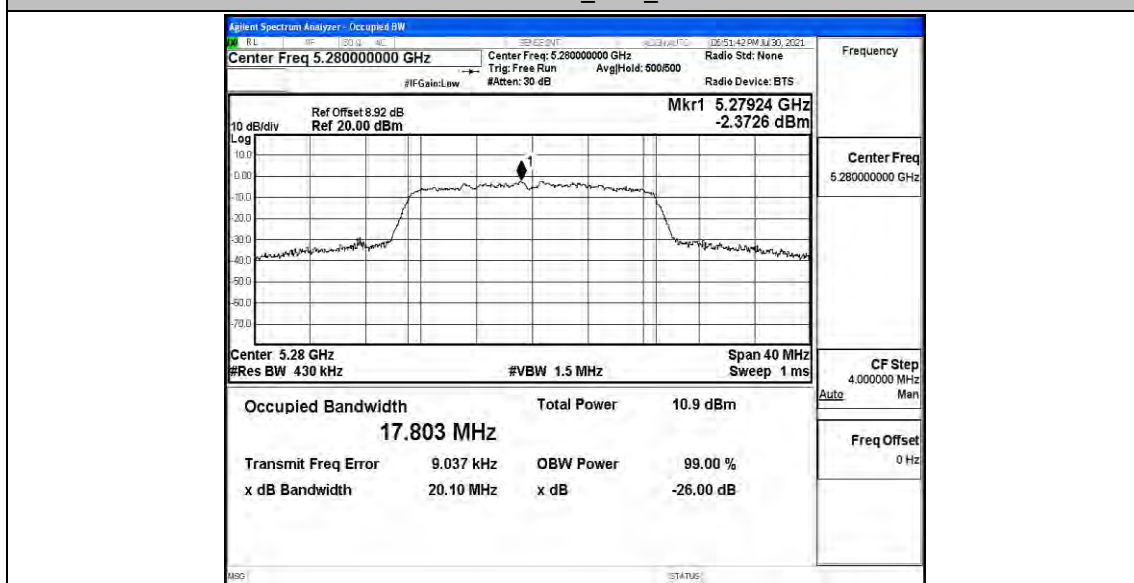
11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5260

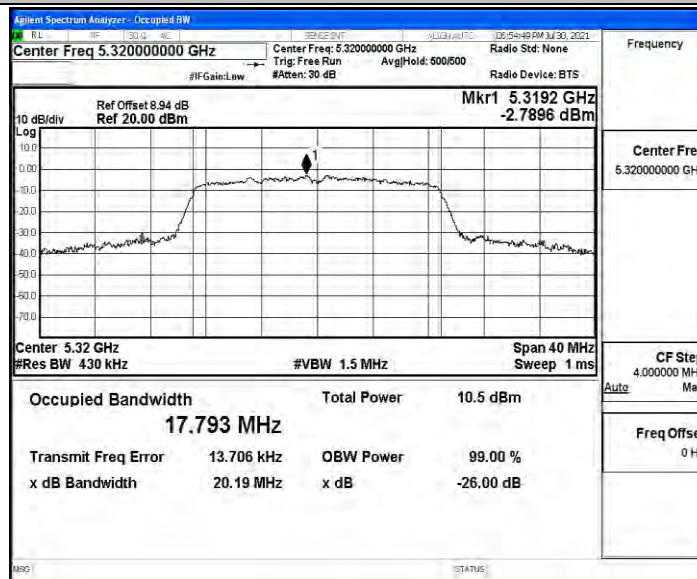


11AC20SISO_Ant1_5280

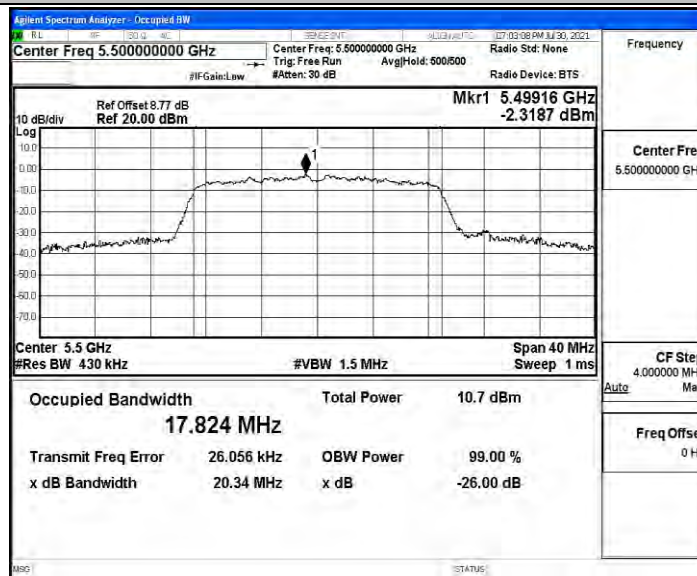




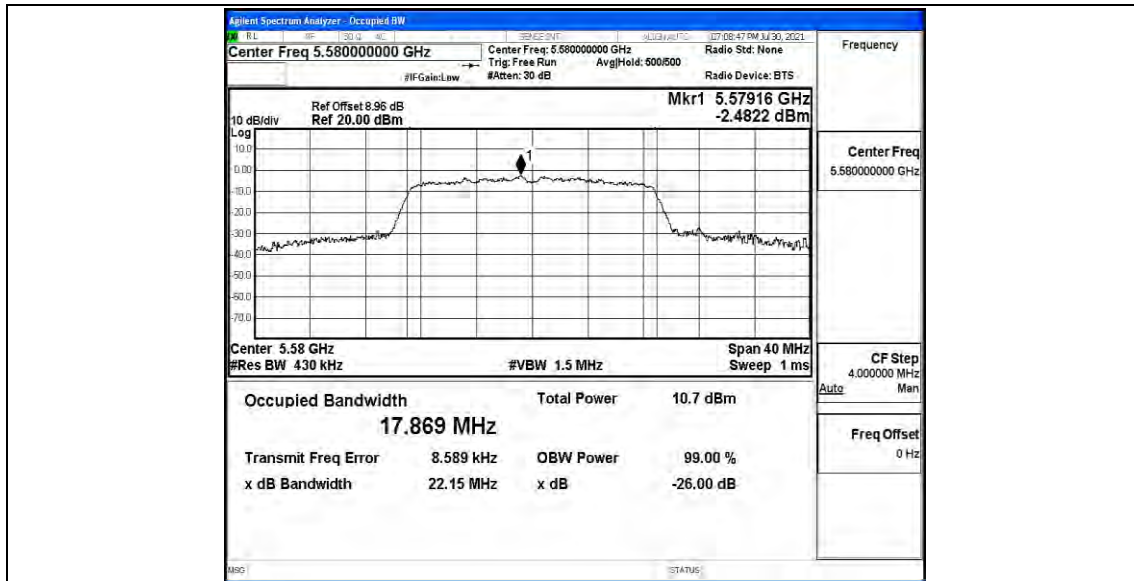
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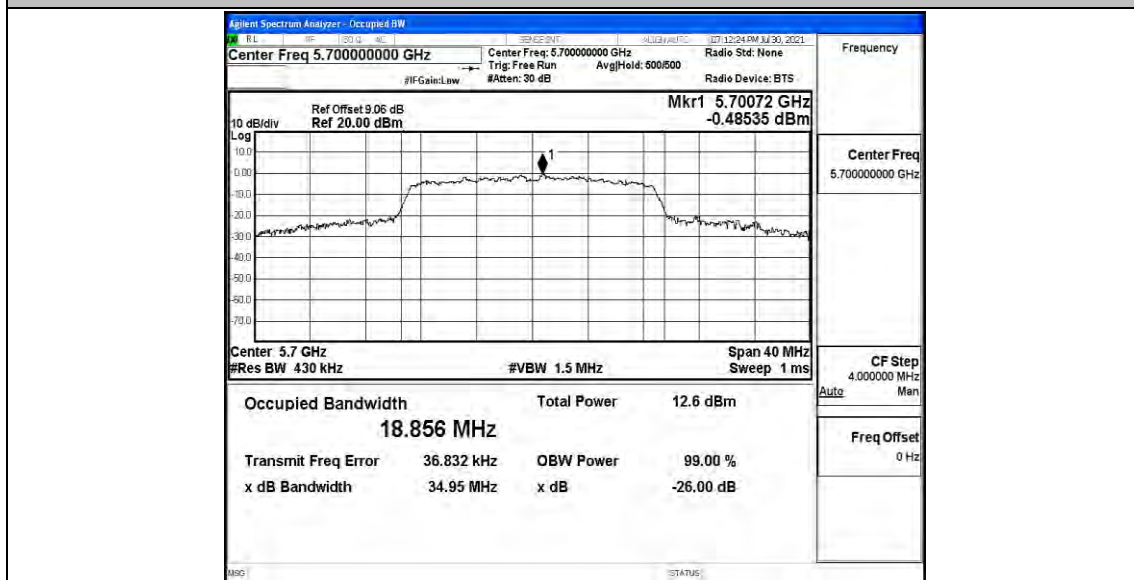
11AC20SISO_Ant1_5500



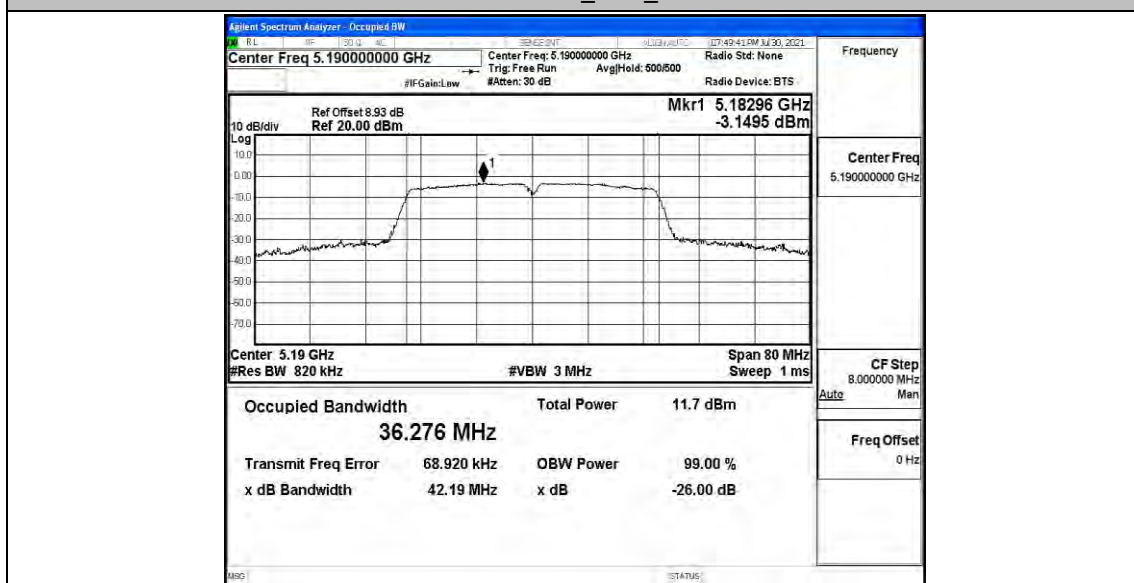
11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700

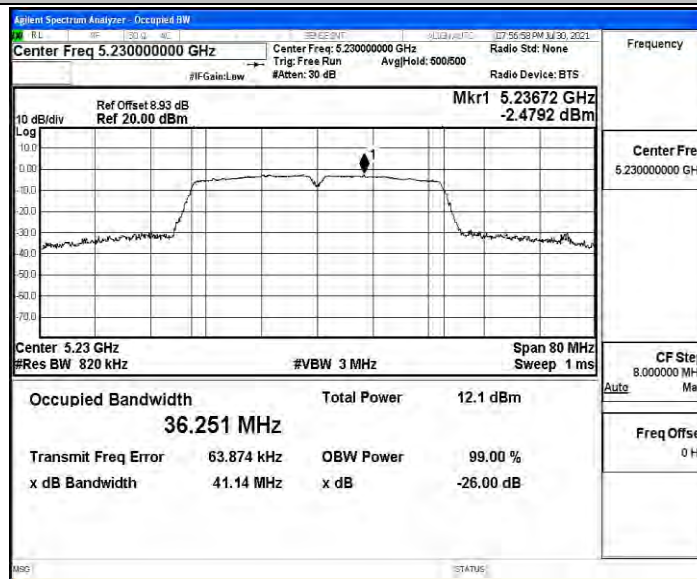


11AC40SISO_Ant1_5190

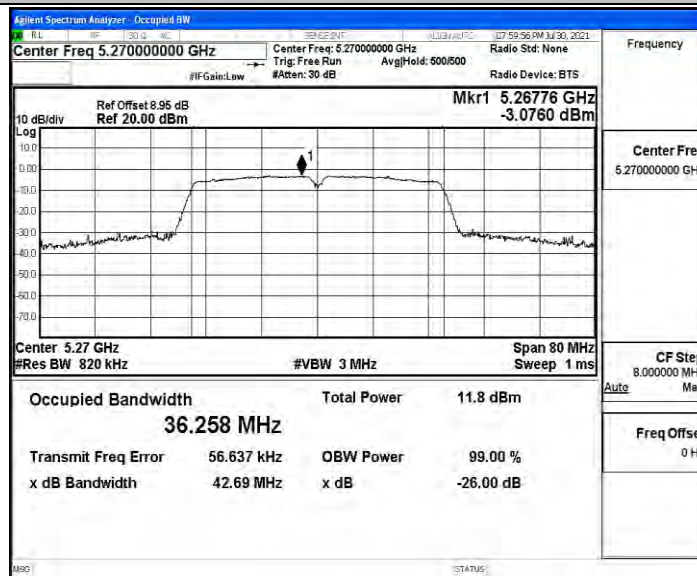




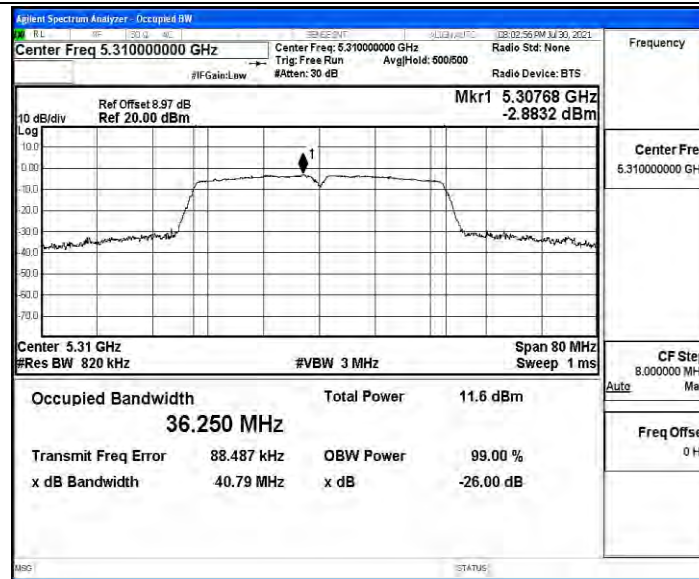
11AC40SISO_Ant1_5230



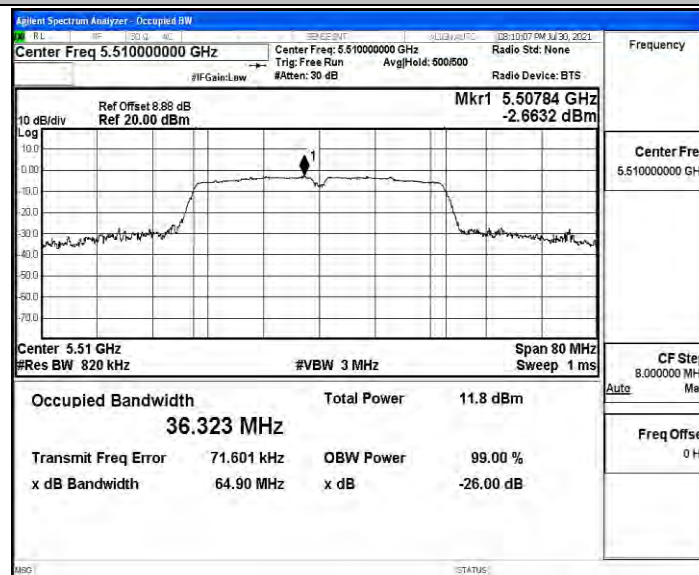
11AC40SISO_Ant1_5270



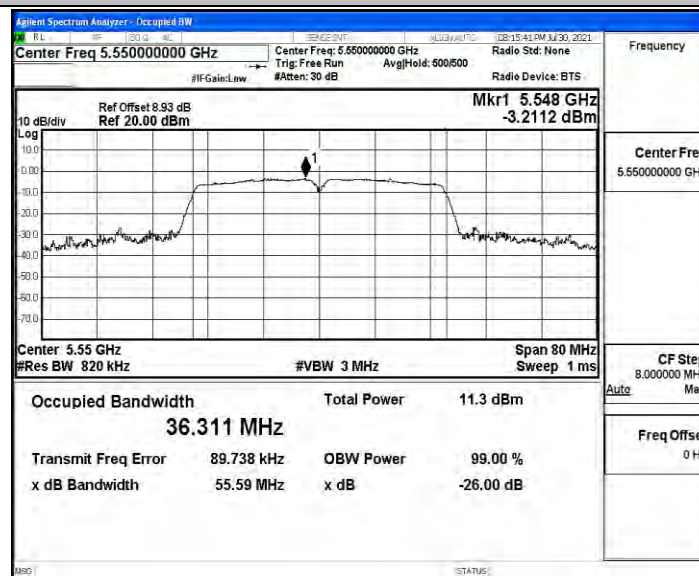
11AC40SISO_Ant1_5310



11AC40SISO_Ant1_5510

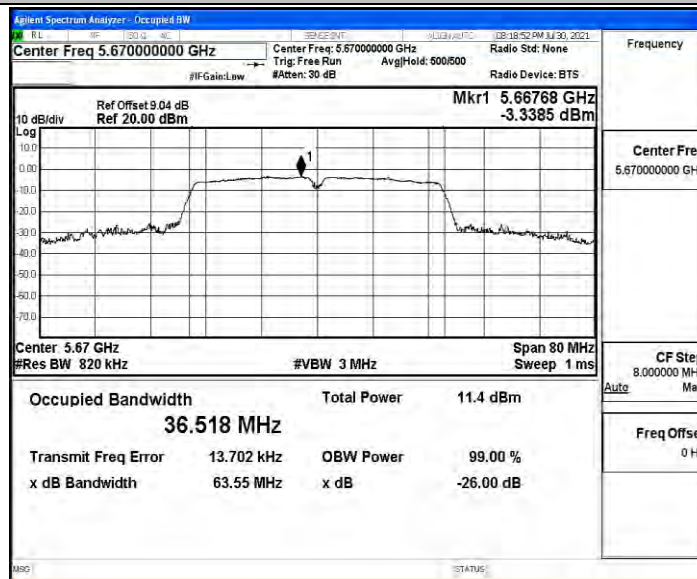


11AC40SISO_Ant1_5550

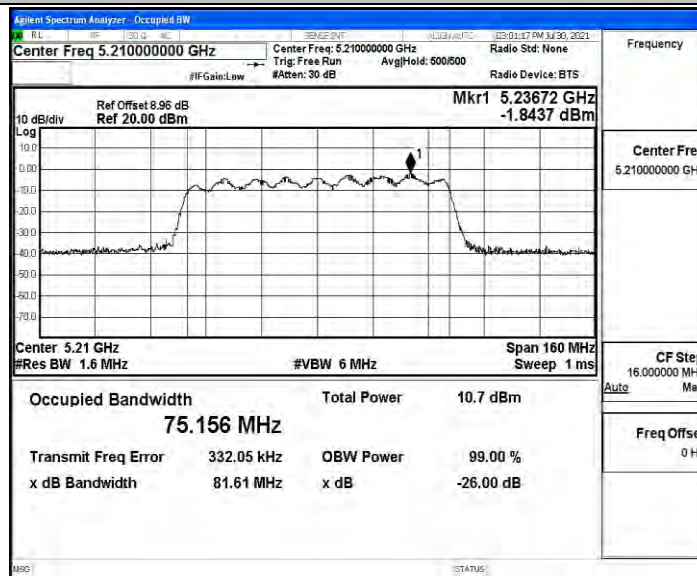




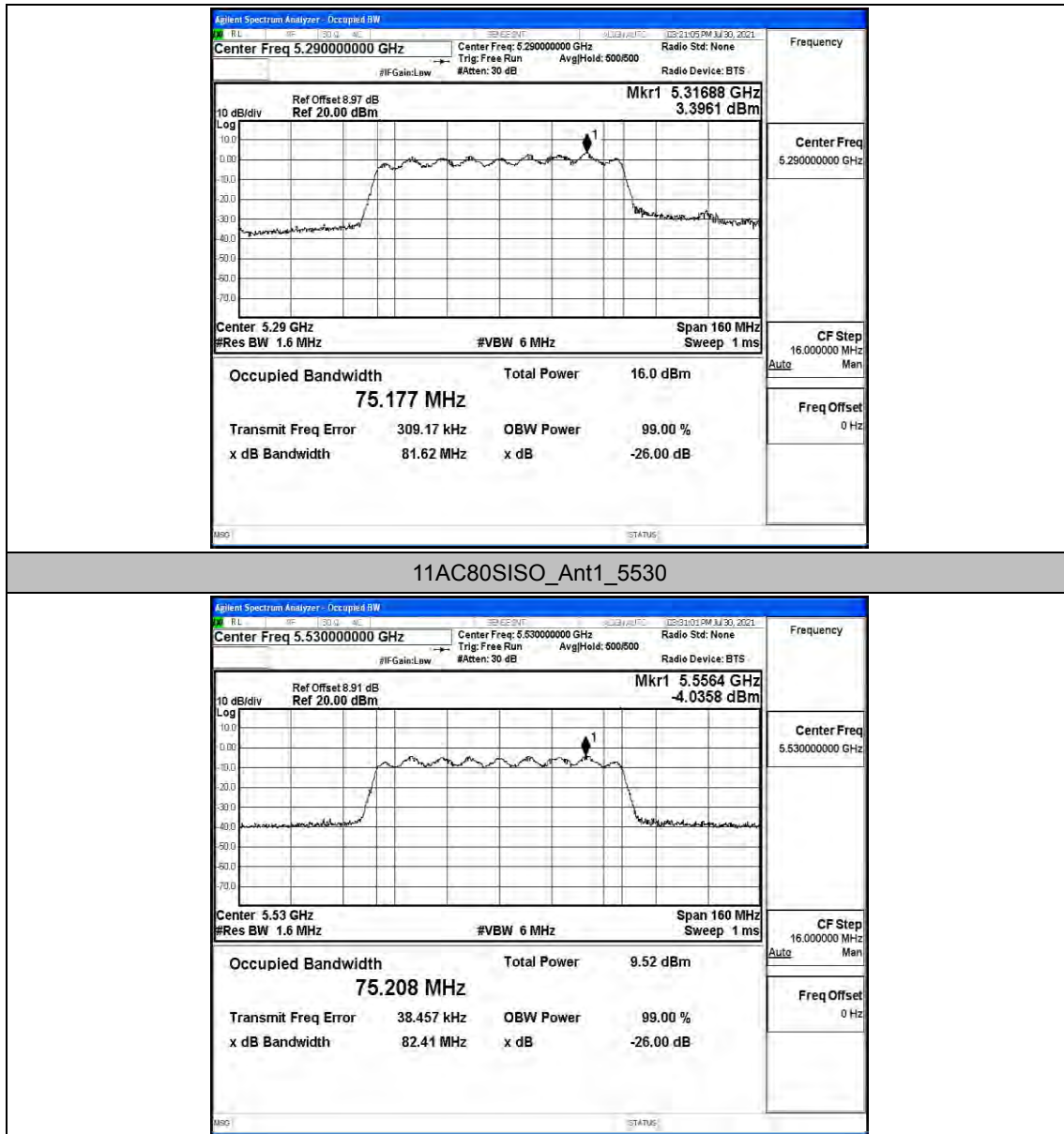
11AC40SISO_Ant1_5670



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5290





D.3 Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Power [dBm]	FCC Limit [dBm]	EIRP [dBm]	ISED Limit [dBm]	Verdict
11A	Ant1	5180	12.56	30	15.56	23	PASS
		5200	12.56	30	15.56	23	PASS
		5240	13.32	30	16.32	23	PASS
		5260	12.35	24	15.35	23	PASS
		5280	12.44	24	15.44	23	PASS
		5320	12.09	24	15.09	23	PASS
		5500	12.17	24	15.17	23	PASS
		5580	12.14	24	15.14	23	PASS
		5700	12.24	24	15.24	23	PASS
11N20SISO	Ant1	5180	11.82	30	14.82	23	PASS
		5200	11.82	30	14.82	23	PASS
		5240	12.60	30	15.6	23	PASS
		5260	11.67	24	14.67	23	PASS
		5280	11.70	24	14.7	23	PASS
		5320	11.34	24	14.34	23	PASS
		5500	11.47	24	14.47	23	PASS
		5580	11.35	24	14.35	23	PASS
		5700	11.60	24	14.6	23	PASS
11N40SISO	Ant1	5190	11.14	30	14.14	23	PASS
		5230	11.29	30	14.29	23	PASS
		5270	11.86	24	14.86	23	PASS
		5310	11.11	24	14.11	23	PASS
		5510	10.98	24	13.98	23	PASS
		5550	10.67	24	13.67	23	PASS
		5670	10.83	24	13.83	23	PASS
11AC20SISO	Ant1	5180	11.85	30	14.85	23	PASS
		5200	11.82	30	14.82	23	PASS
		5240	12.73	30	15.73	23	PASS
		5260	11.58	24	14.58	23	PASS
		5280	11.79	24	14.79	23	PASS
		5320	11.40	24	14.4	23	PASS
		5500	11.47	24	14.47	23	PASS
		5580	11.50	24	14.5	23	PASS
		5700	11.47	24	14.47	23	PASS
11AC40SISO	Ant1	5190	11.13	30	14.13	23	PASS
		5230	11.13	30	14.13	23	PASS



		5270	12.01	24	15.01	23	PASS
		5310	10.94	24	13.94	23	PASS
		5510	11.08	24	14.08	23	PASS
		5550	10.69	24	13.69	23	PASS
		5670	10.77	24	13.77	23	PASS
11AC80SISO	Ant1	5210	10.32	30	13.32	23	PASS
		5290	10.34	24	13.34	23	PASS
		5530	9.98	24	12.98	23	PASS



D.4: Maximum power spectral density

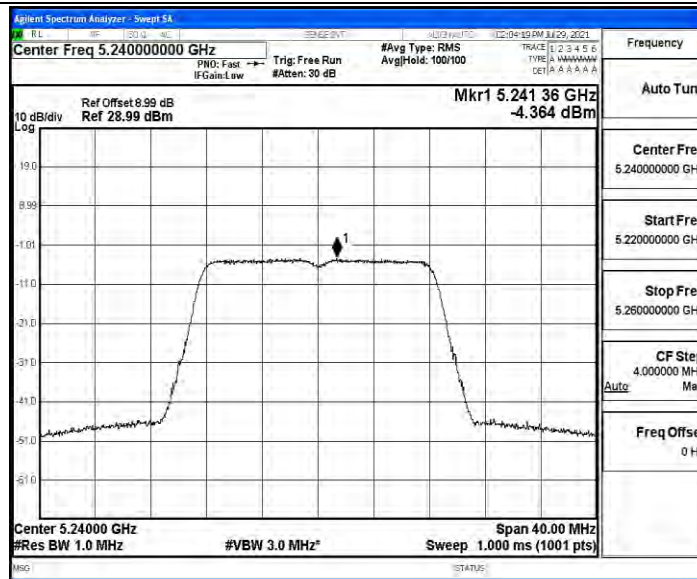
Test Result

Test Mode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-4.21	≤11	-1.21	≤10	PASS
		5200	-4.42	≤11	-1.42	≤10	PASS
		5240	-4.36	≤11	-1.36	≤10	PASS
		5260	-5.06	≤11	-2.06	≤10	PASS
		5280	-5.07	≤11	-2.07	≤10	PASS
		5320	-5.89	≤11	-2.89	≤10	PASS
		5500	-4.45	≤11	-1.45	≤10	PASS
		5580	-5.02	≤11	-2.02	≤10	PASS
		5700	-6.02	≤11	-3.02	≤10	PASS
11N20SISO	Ant1	5180	-5.55	≤11	-2.55	≤10	PASS
		5200	-4.65	≤11	-1.65	≤10	PASS
		5240	-5.8	≤11	-2.8	≤10	PASS
		5260	-6.09	≤11	-3.09	≤10	PASS
		5280	-6.32	≤11	-3.32	≤10	PASS
		5320	-5.12	≤11	-2.12	≤10	PASS
		5500	-5.86	≤11	-2.86	≤10	PASS
		5580	-5.15	≤11	-2.15	≤10	PASS
		5700	-5.43	≤11	-2.43	≤10	PASS
11N40SISO	Ant1	5190	-8.98	≤11	-5.98	≤10	PASS
		5230	-9.31	≤11	-6.31	≤10	PASS
		5270	-9.11	≤11	-6.11	≤10	PASS
		5310	-9.53	≤11	-6.53	≤10	PASS
		5510	-9.1	≤11	-6.1	≤10	PASS
		5550	-8.88	≤11	-5.88	≤10	PASS
		5670	-8.39	≤11	-5.39	≤10	PASS
11AC20SISO	Ant1	5180	-5.45	≤11	-2.45	≤10	PASS
		5200	-5.8	≤11	-2.8	≤10	PASS
		5240	-5.48	≤11	-2.48	≤10	PASS
		5260	-6.02	≤11	-3.02	≤10	PASS
		5280	-6.27	≤11	-3.27	≤10	PASS
		5320	-6.64	≤11	-3.64	≤10	PASS
		5500	-6.3	≤11	-3.3	≤10	PASS
		5580	-6.06	≤11	-3.06	≤10	PASS
		5700	-4.34	≤11	-1.34	≤10	PASS
11AC40SISO	Ant1	5190	-9.26	≤11	-6.26	≤10	PASS
		5230	-8.94	≤11	-5.94	≤10	PASS
		5270	-9.17	≤11	-6.17	≤10	PASS

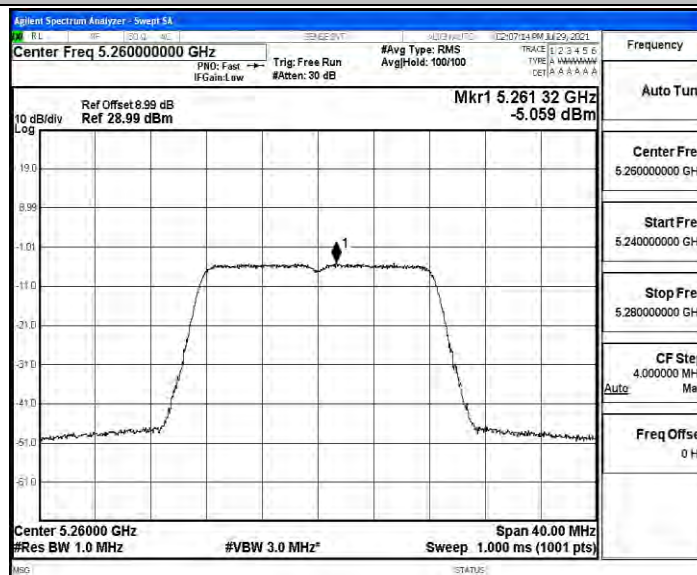


		5310	-9.5	≤ 11	-6.5	≤ 10	PASS
		5510	-9.31	≤ 11	-6.31	≤ 10	PASS
		5550	-9.69	≤ 11	-6.69	≤ 10	PASS
		5670	-9.77	≤ 11	-6.77	≤ 10	PASS
11AC80SISO	Ant1	5210	-10.57	≤ 11	-7.57	≤ 10	PASS
		5290	-8.47	≤ 11	-5.47	≤ 10	PASS
		5530	-11.29	≤ 11	-8.29	≤ 10	PASS

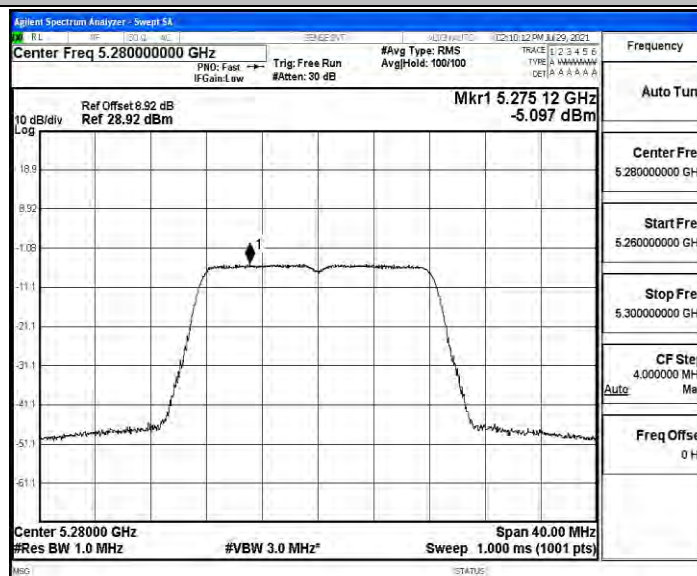
Note: 1..The Duty Cycle Factor and RBW Factor is compensated in the graph.



11A_Ant1_5260

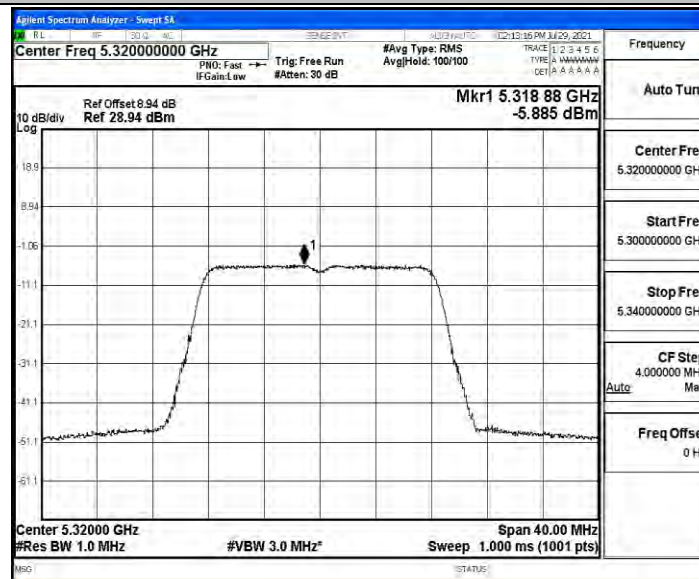


11A_Ant1_5280

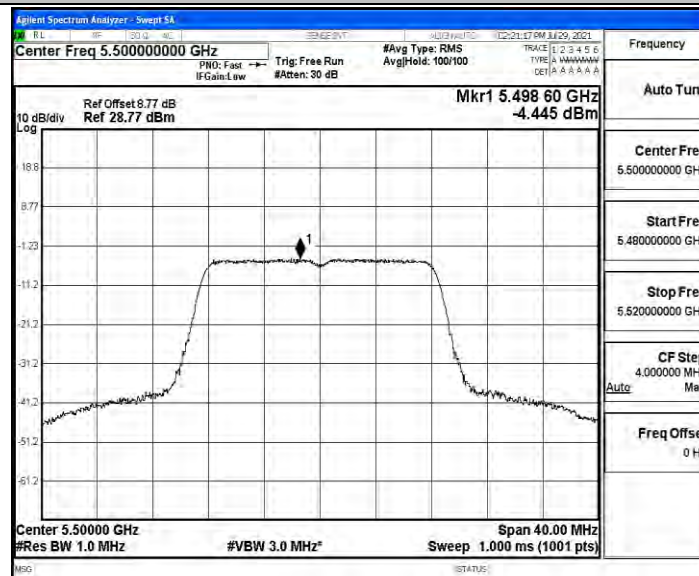




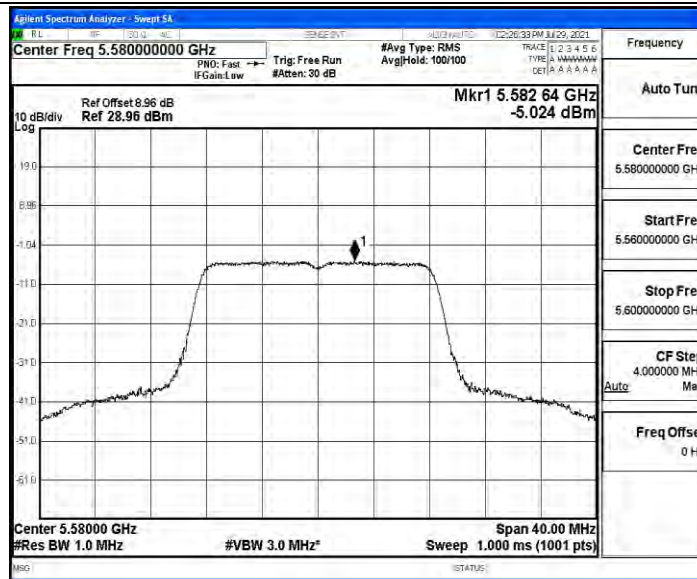
11A_Ant1_5320



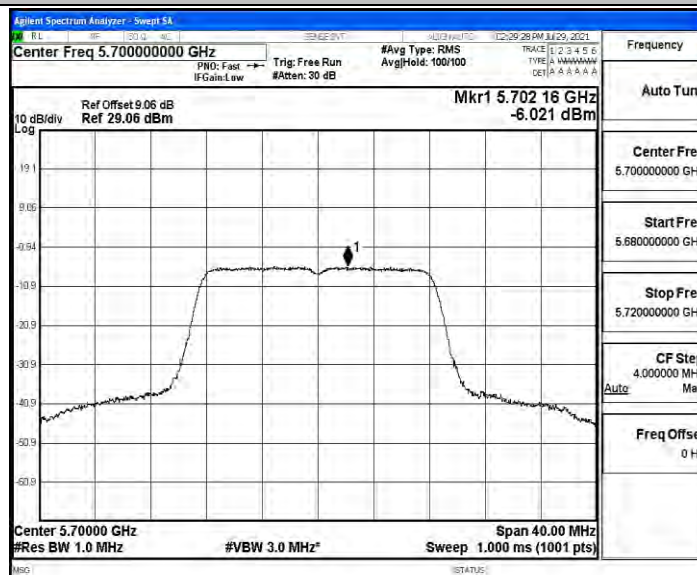
11A_Ant1_5500



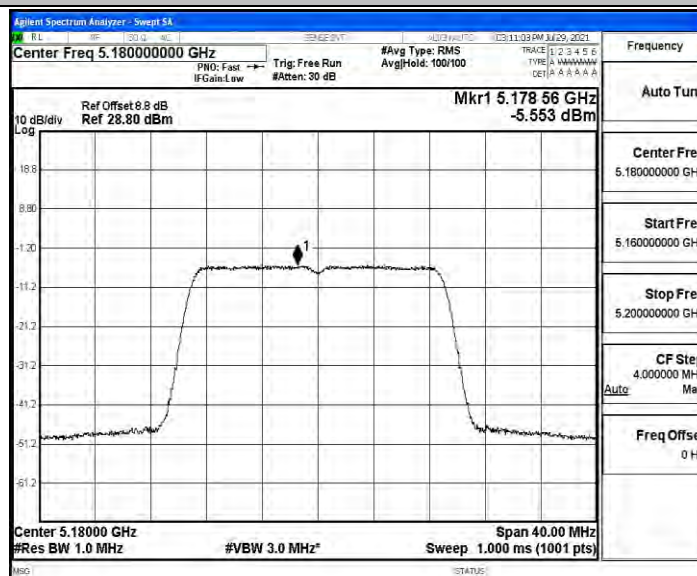
11A_Ant1_5580



11A_Ant1_5700

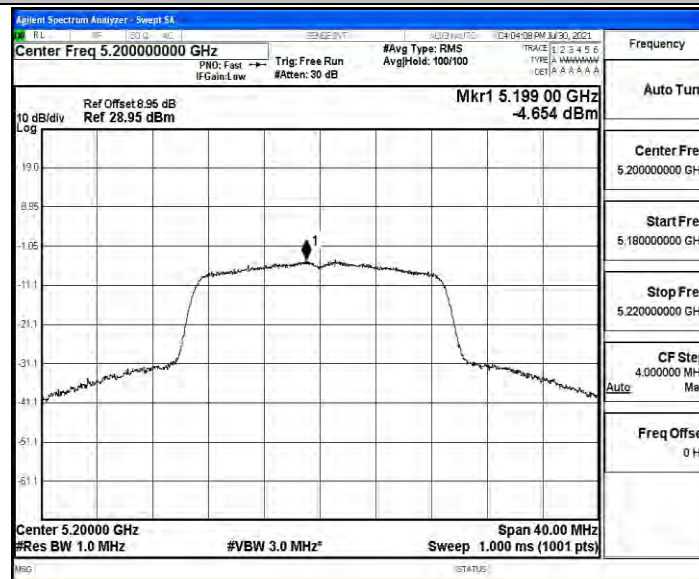


11N20SISO_Ant1_5180

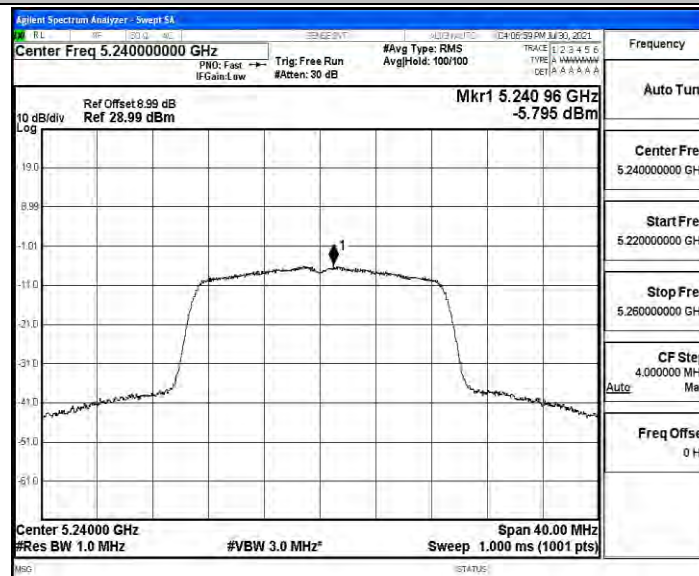




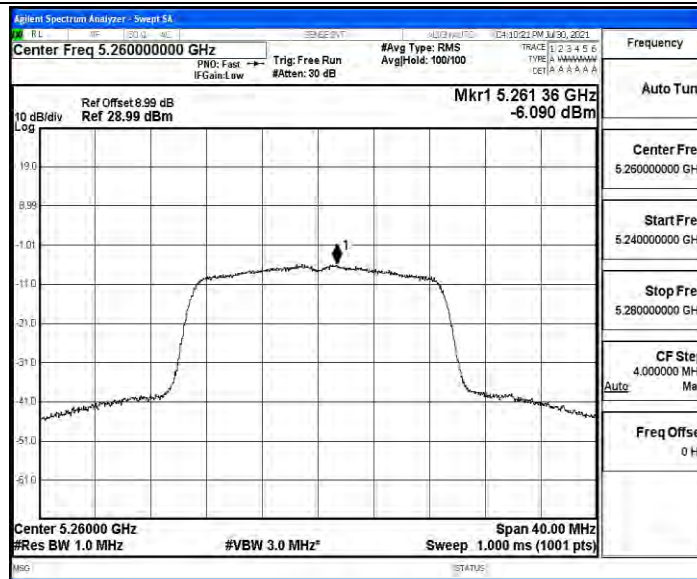
11N20SISO_Ant1_5200



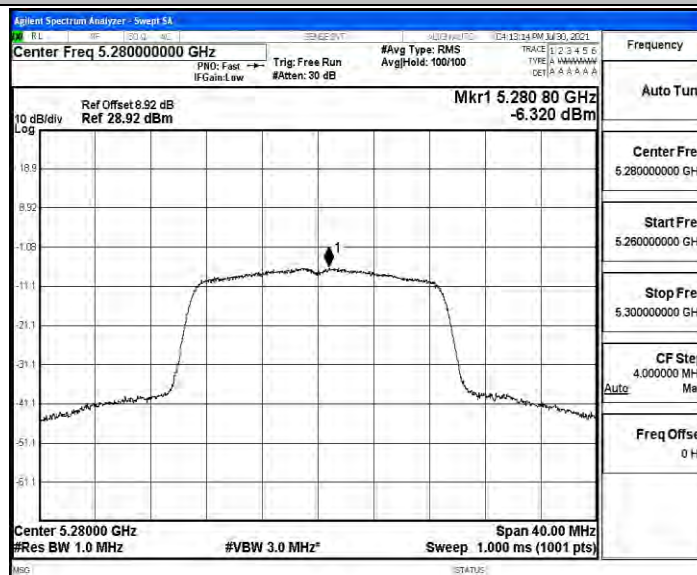
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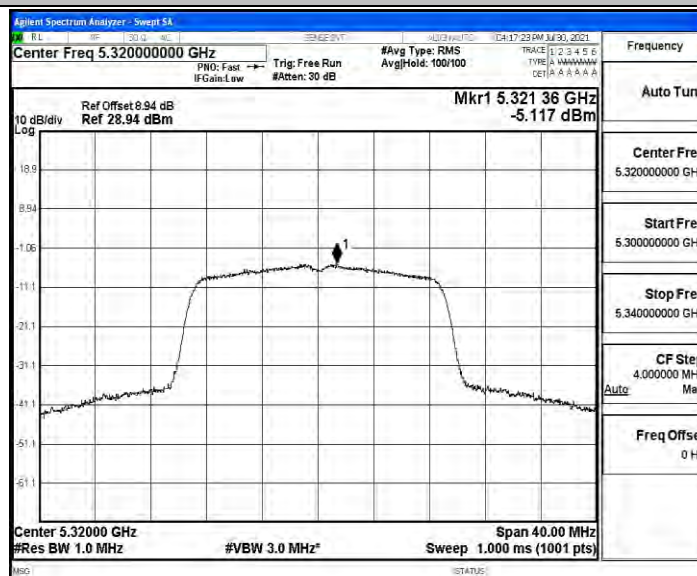
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280

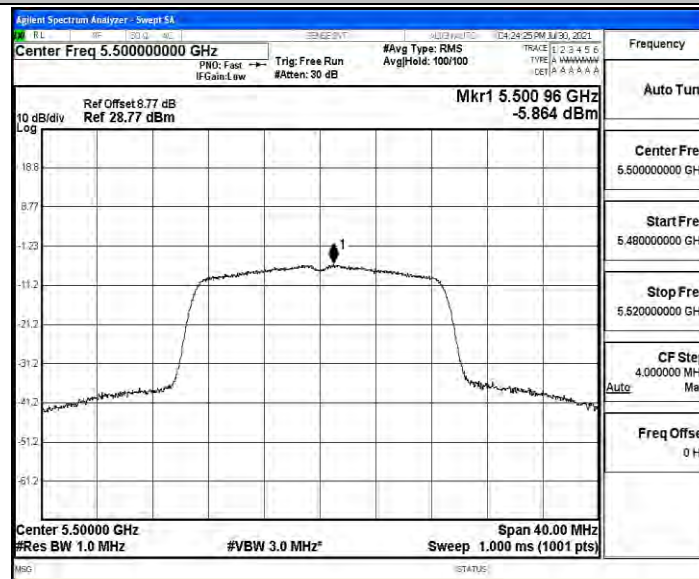


11N20SISO_Ant1_5320

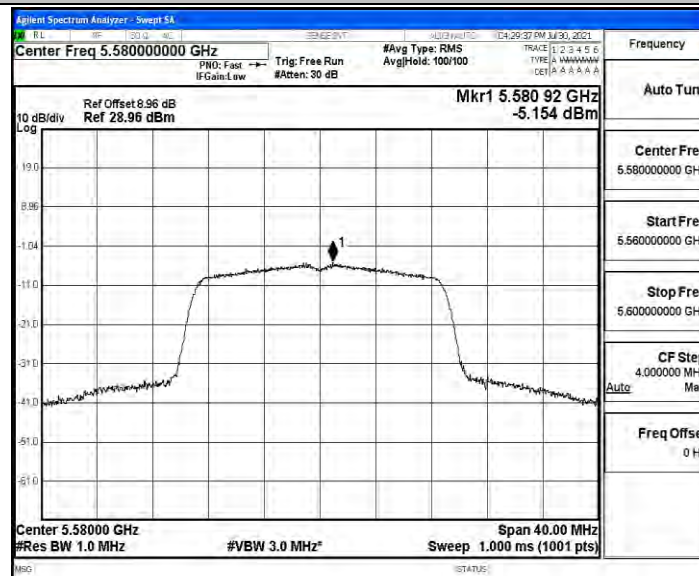




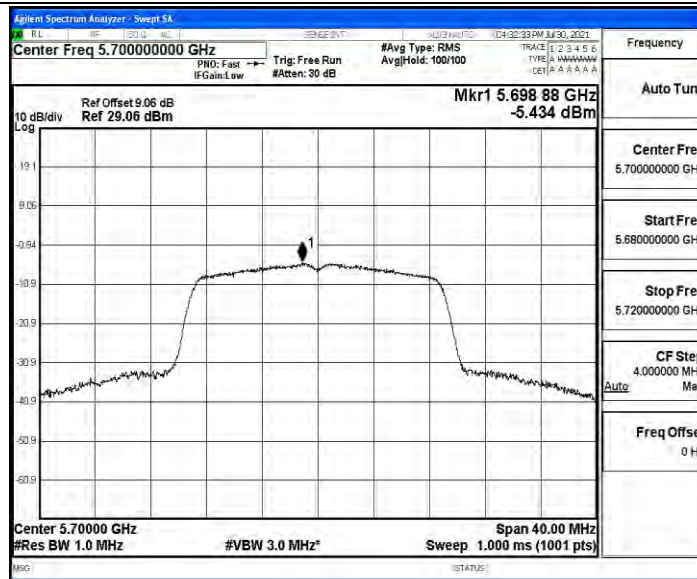
11N20SISO_Ant1_5500



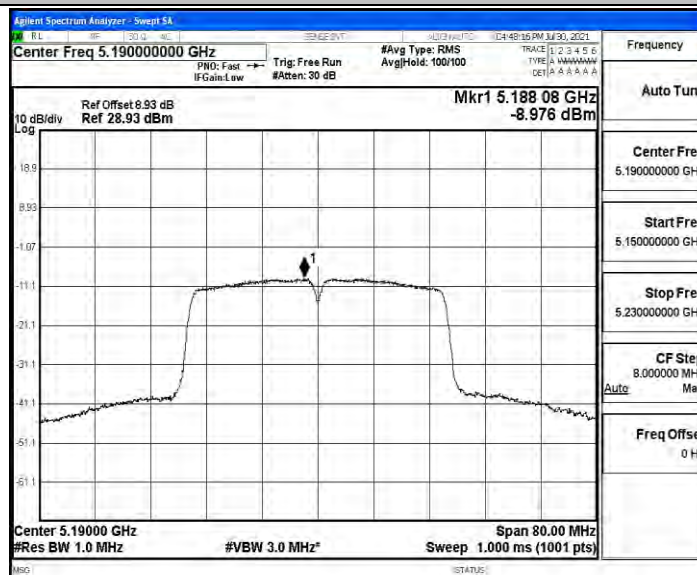
11N20SISO_Ant1_5580



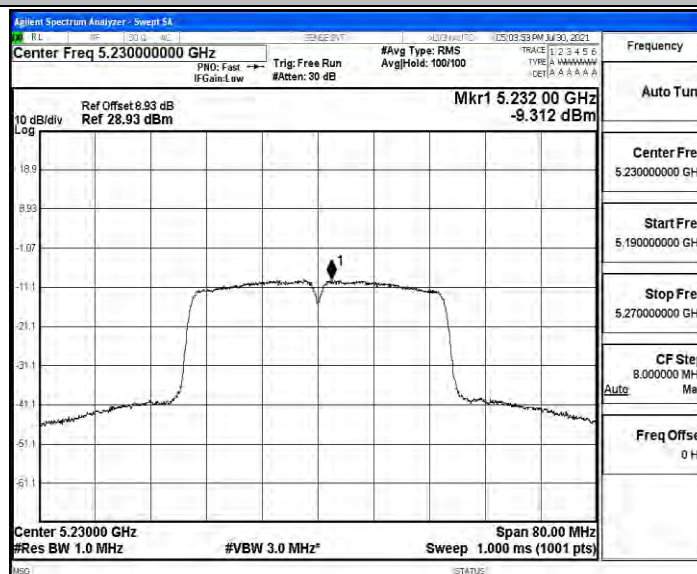
11N20SISO_Ant1_5700



11N40SISO_Ant1_5190

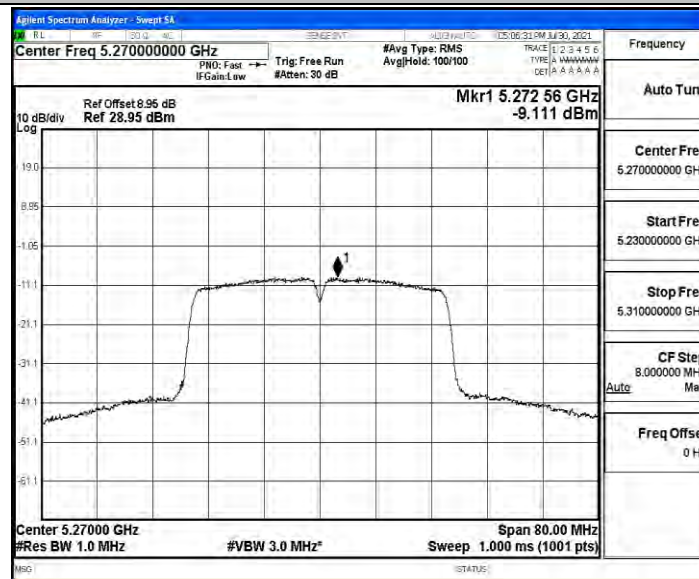


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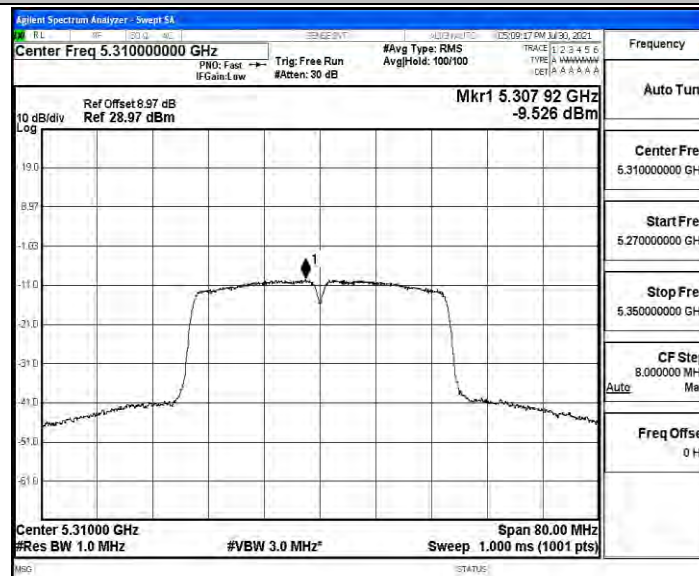




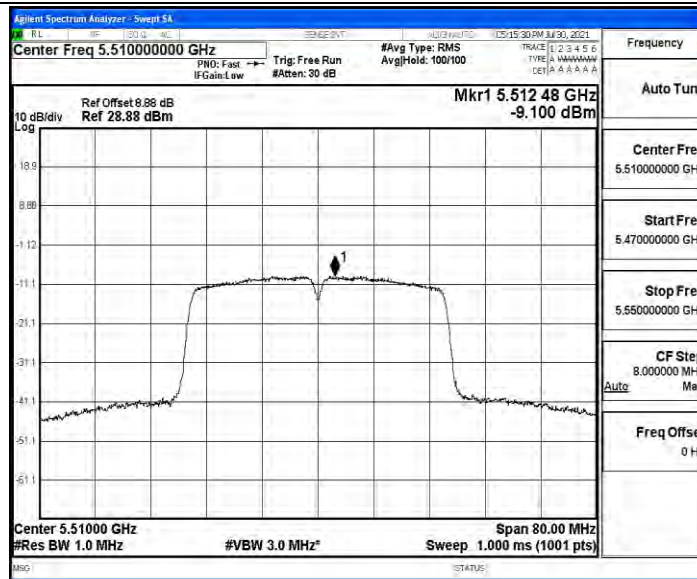
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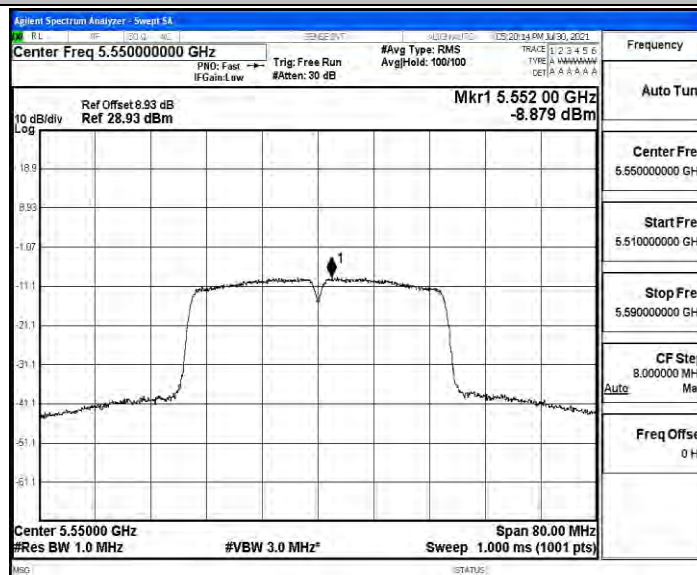
11N40SISO_Ant1_5310



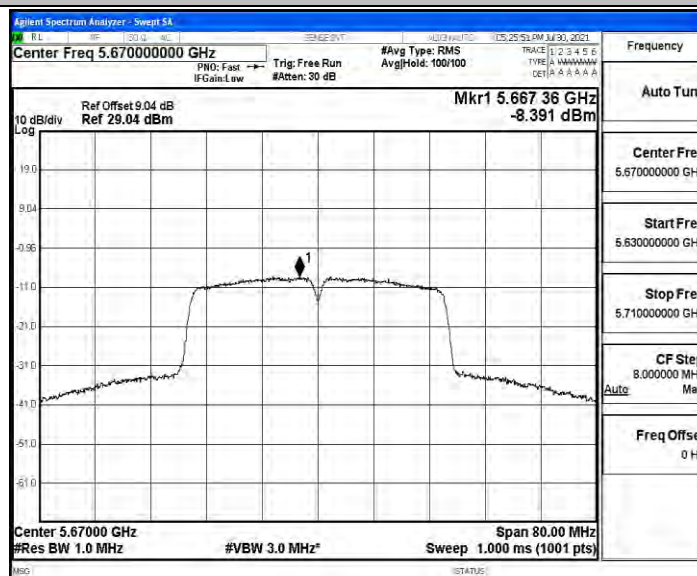
11N40SISO_Ant1_5510



11N40SISO_Ant1_5550

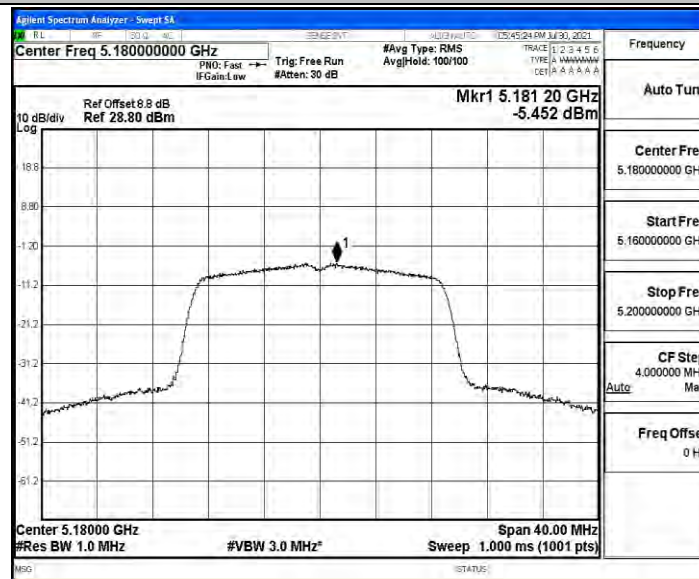


11N40SISO_Ant1_5670

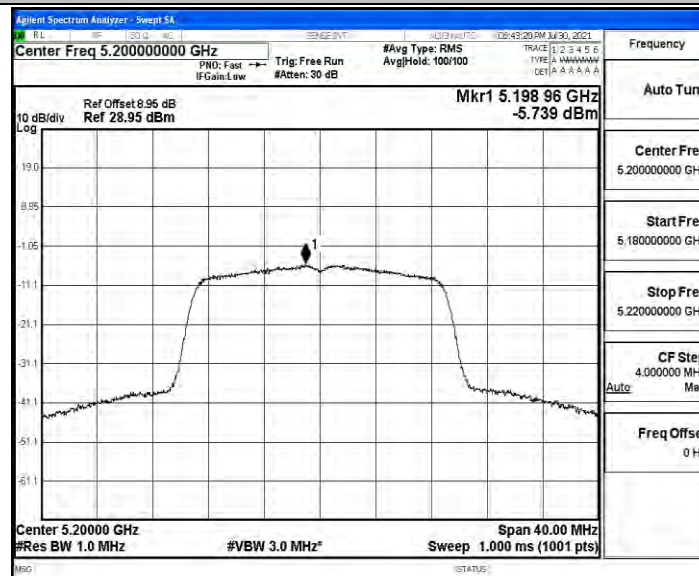




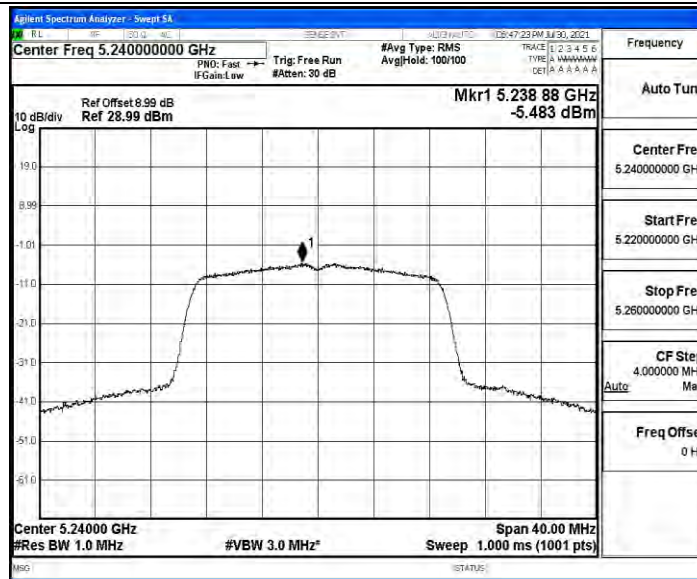
11AC20SISO_Ant1_5180



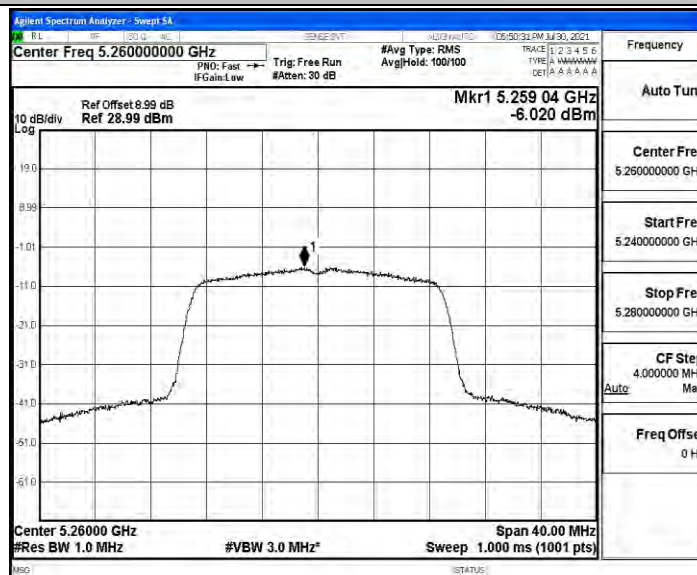
11AC20SISO_Ant1_5200



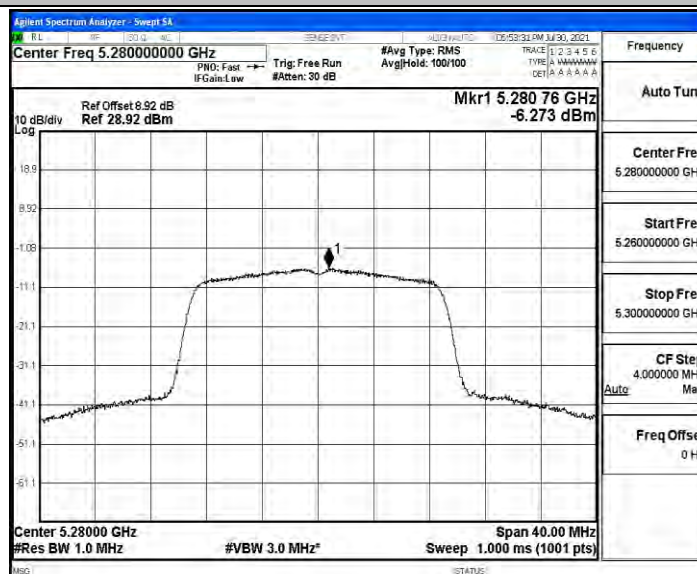
11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5260

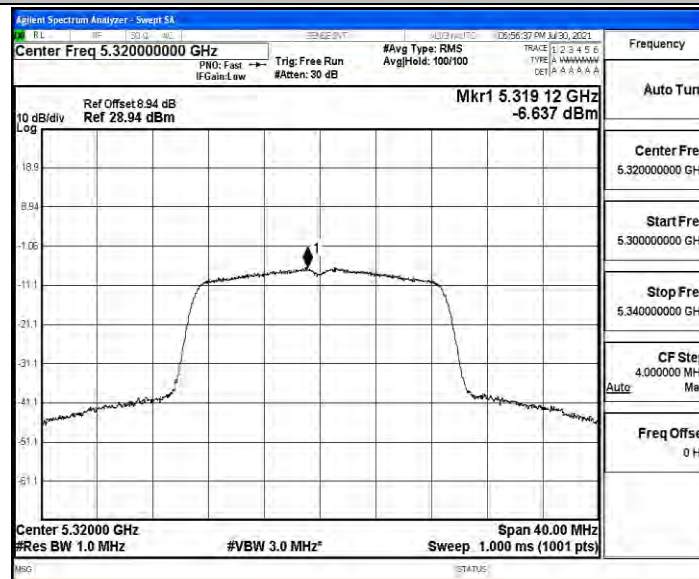


11AC20SISO_Ant1_5280

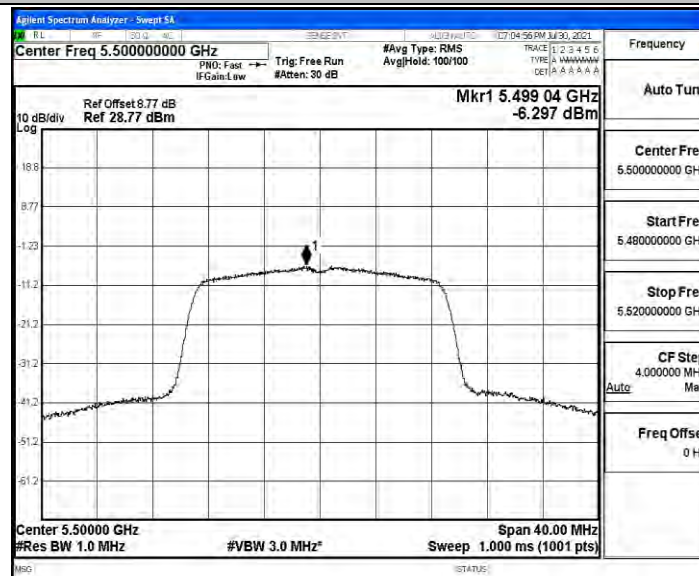




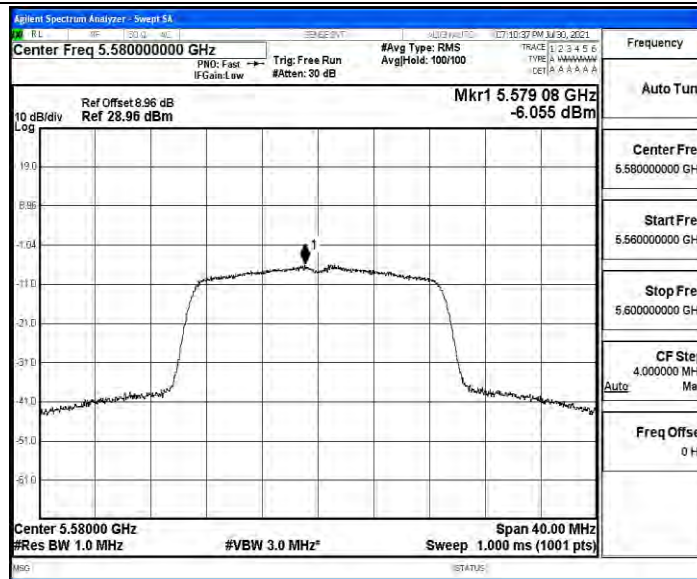
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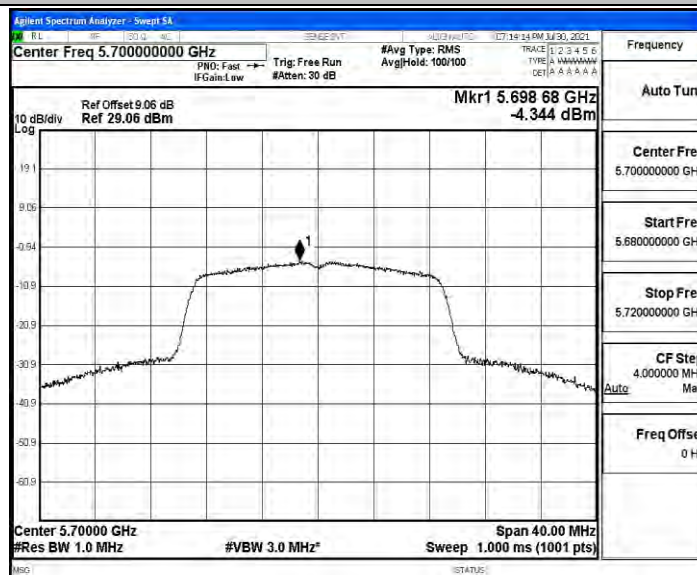
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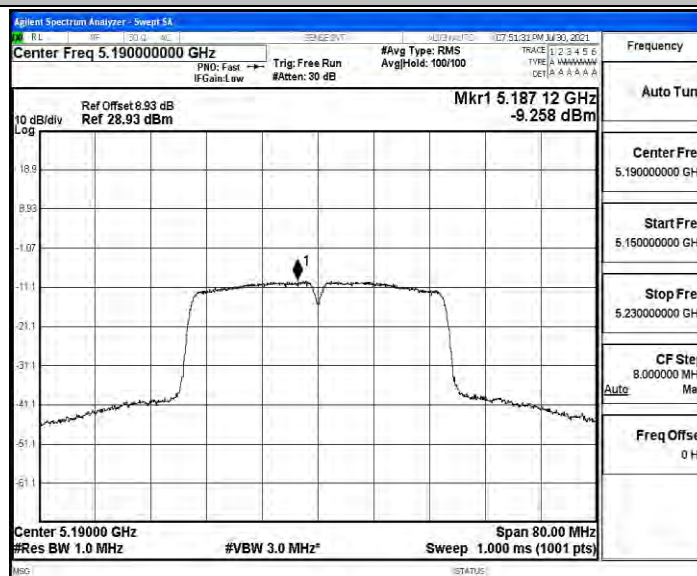
11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700

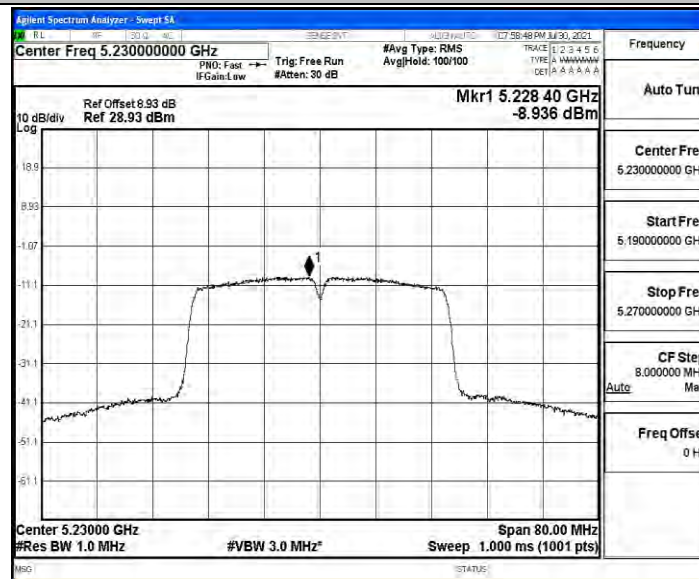


11AC40SISO_Ant1_5190

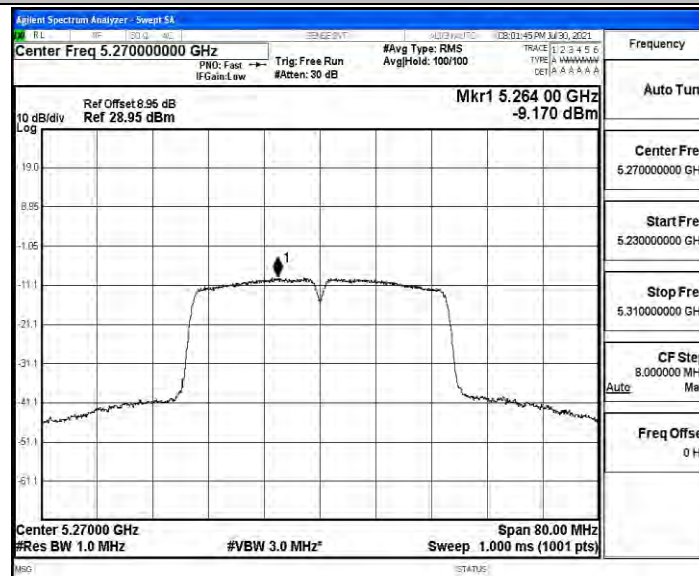




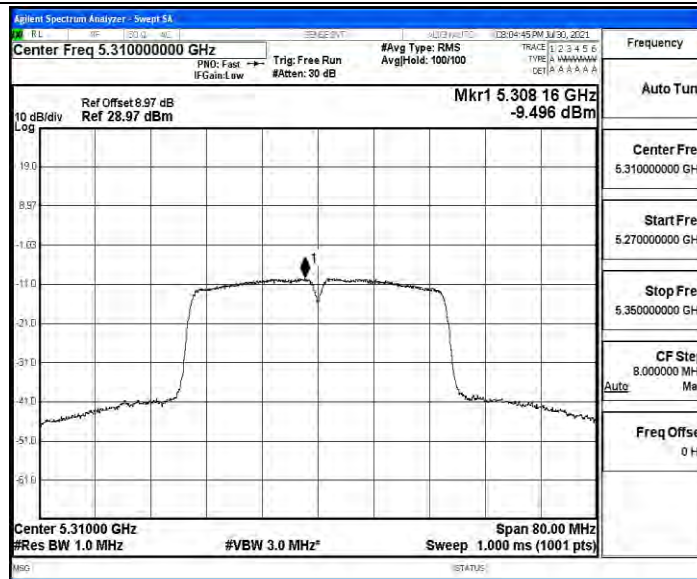
11AC40SISO_Ant1_5230



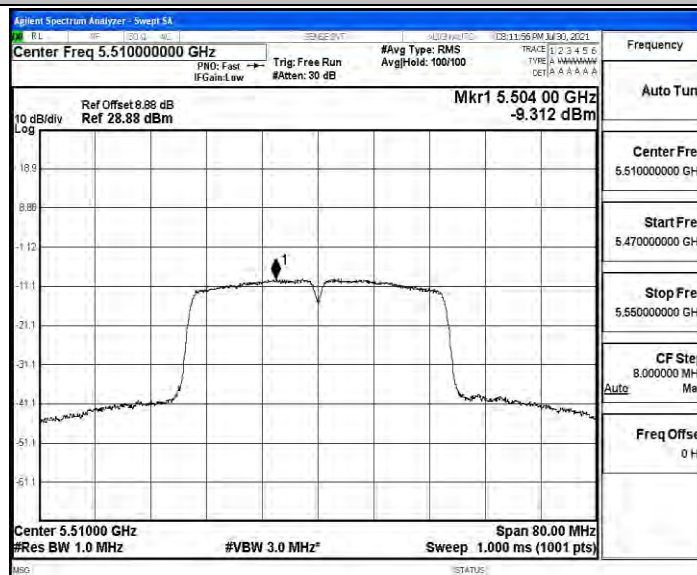
11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC40SISO_Ant1_5510



11AC40SISO_Ant1_5550

