

Appendix A: Test Results of 5GHz Wi-Fi

APPENDIX A: TEST RESULTS OF 5GHZ WI-FI.....	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY.....	2
APPENDIX A.2: TEST RESULTS OF FREQUENCY STABILITY	13
APPENDIX A.3: TEST RESULTS OF 26dB BANDWIDTH	14
APPENDIX A.4: TEST RESULTS OF 99% BANDWIDTH.....	25
APPENDIX A.5: TEST RESULTS OF 6dB BANDWIDTH	36
APPENDIX A.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	42
30MHz - 1GHz (Worst case)	42
1GHz - 18GHz.....	44
APPENDIX A.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....	76
5.2GHz Wi-Fi.....	76
5.8GHz Wi-Fi.....	84
APPENDIX A.8: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	98

Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	6.34	≤11.00	PASS
		5200	6.15	≤11.00	PASS
		5240	6.20	≤11.00	PASS
11N20SISO	Ant1	5180	5.74	≤11.00	PASS
		5200	5.69	≤11.00	PASS
		5240	5.73	≤11.00	PASS
11N40SISO	Ant1	5190	0.07	≤11.00	PASS
		5230	0.37	≤11.00	PASS
11AC20SISO	Ant1	5180	6.15	≤11.00	PASS
		5200	5.79	≤11.00	PASS
		5240	5.54	≤11.00	PASS
11AC40SISO	Ant1	5190	0.47	≤11.00	PASS
		5230	0.34	≤11.00	PASS
11AC80SISO	Ant1	5210	-4.68	≤11.00	PASS

Note:

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

TestMode	Antenna	Channel	Measured Result [dBm/300KHz]	Factor 10*log (500 kHz/300KHz) (dB)	Results [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	3.615	2.22	5.835	≤30.00	PASS
		5785	3.411	2.22	5.631	≤30.00	PASS
		5825	2.663	2.22	4.883	≤30.00	PASS
11N20SISO	Ant1	5745	3.218	2.22	5.438	≤30.00	PASS
		5785	2.233	2.22	4.453	≤30.00	PASS
		5825	2.184	2.22	4.404	≤30.00	PASS
11N40SISO	Ant1	5755	-2.853	2.22	-0.633	≤30.00	PASS
		5795	-3.017	2.22	-0.797	≤30.00	PASS
11AC20SISO	Ant1	5745	3.065	2.22	5.285	≤30.00	PASS
		5785	2.366	2.22	4.586	≤30.00	PASS
		5825	2.624	2.22	4.844	≤30.00	PASS
11AC40SISO	Ant1	5755	-2.797	2.22	-0.577	≤30.00	PASS
		5795	-3.010	2.22	-0.79	≤30.00	PASS
11AC80SISO	Ant1	5775	-6.182	2.22	-3.962	≤30.00	PASS

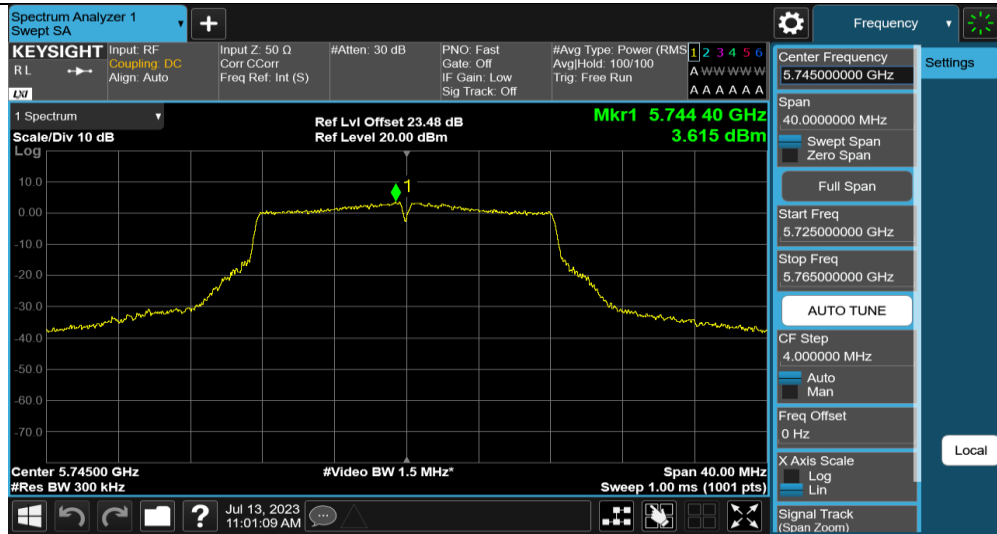
Note:

1.The Result and Limit Unit is dBm/500 kHz in the band 5.725-5.85 GHz.

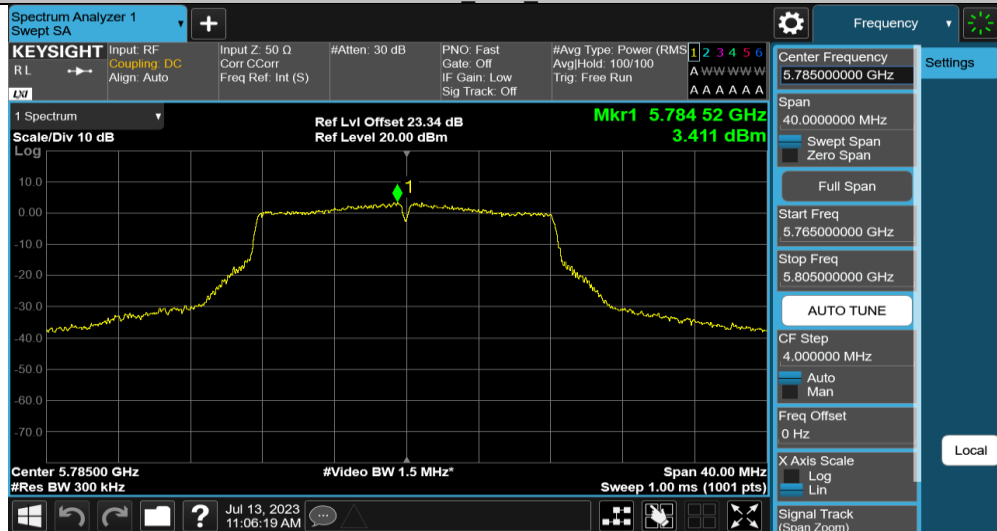
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

3. Considering a narrower RBW used, as per KDB 789033 section F(5), the factor 10*log (500 kHz/300KHz) added to the measured result.

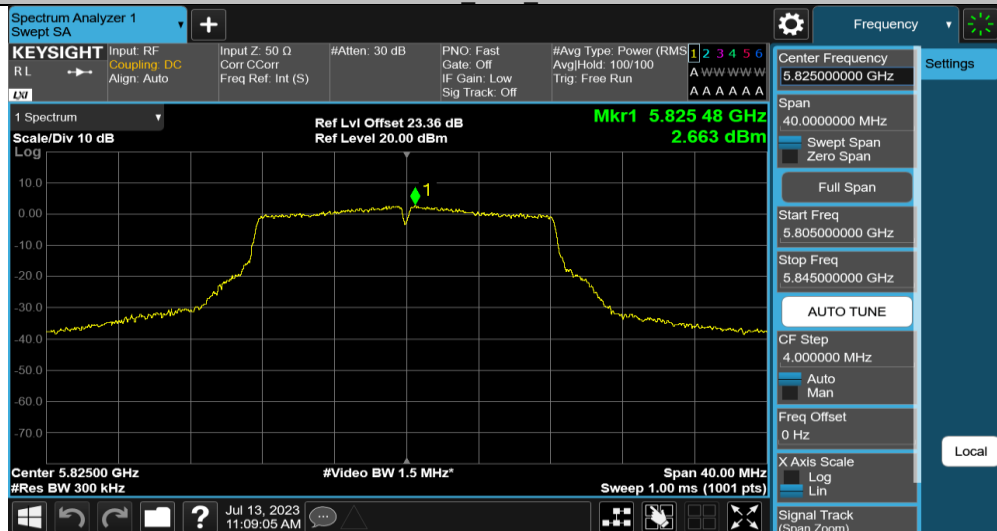




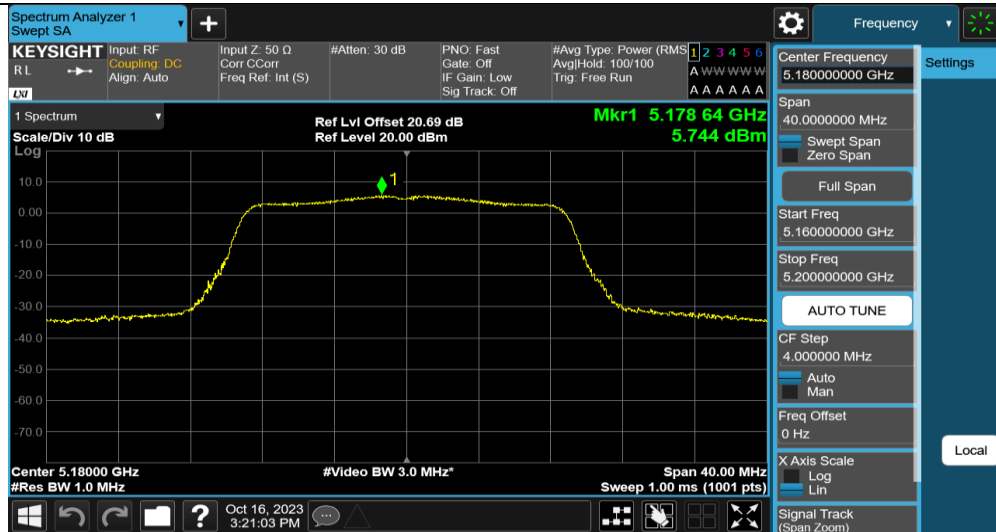
11A Ant1 5785



11A Ant1 5825



11N20SISO Ant1 5180



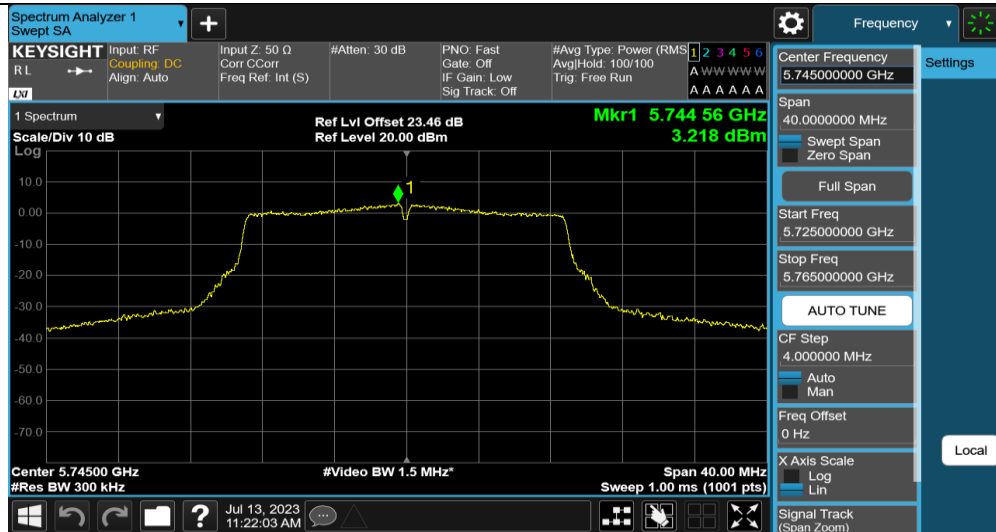
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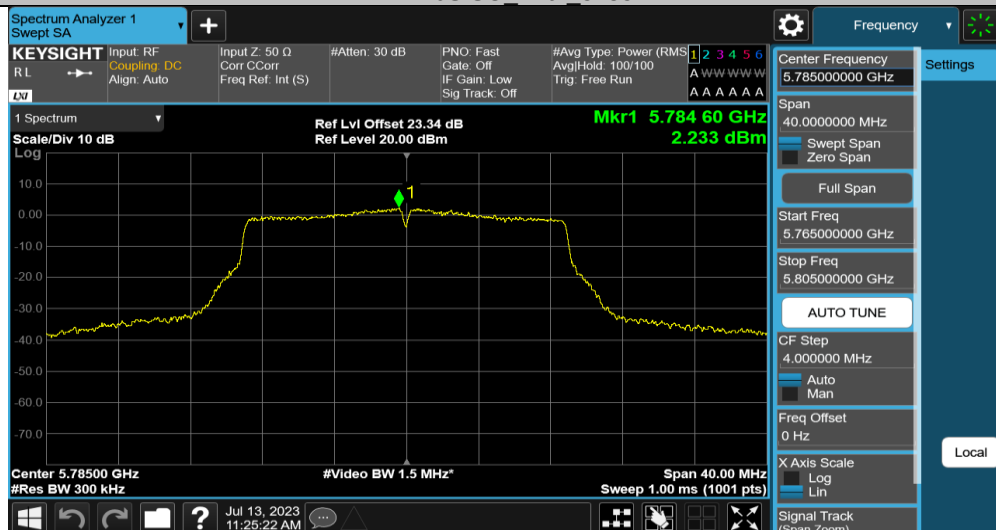
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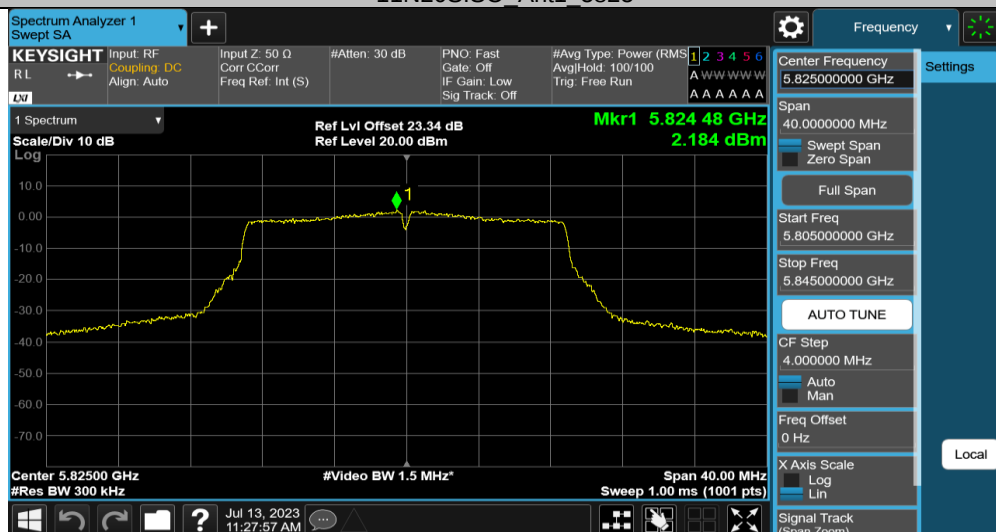
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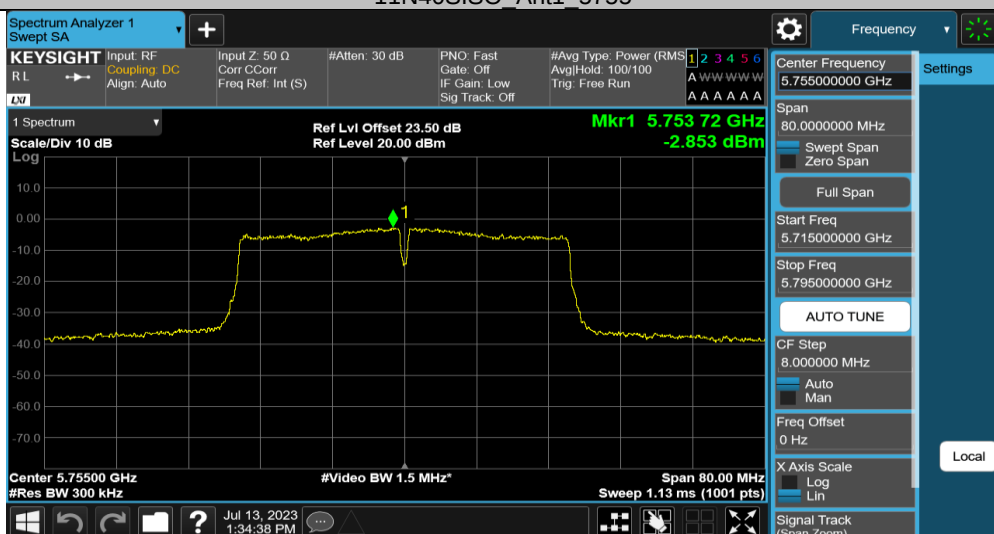
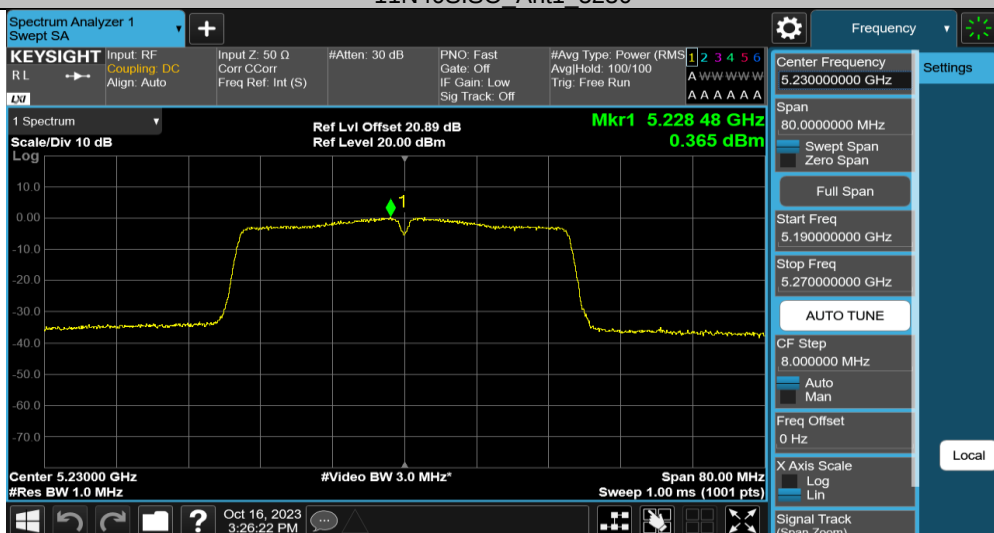
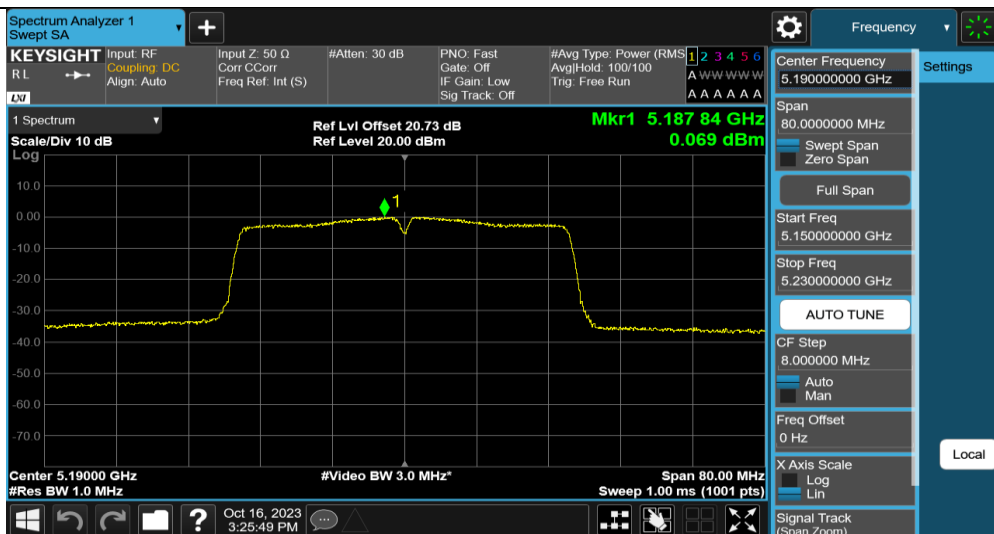
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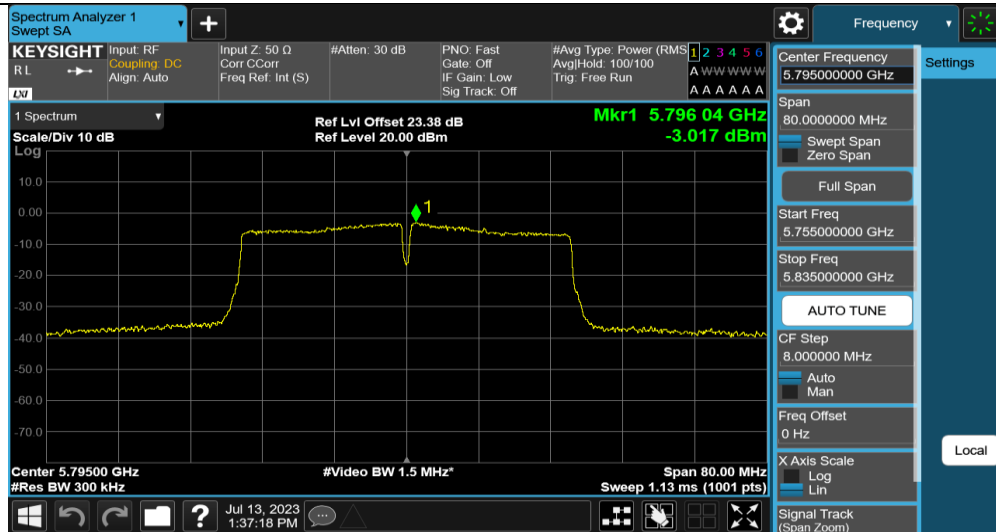


11N20SISO Ant1 5825



11N40SISO Ant1 5190





11AC20SISO_Ant1 5180



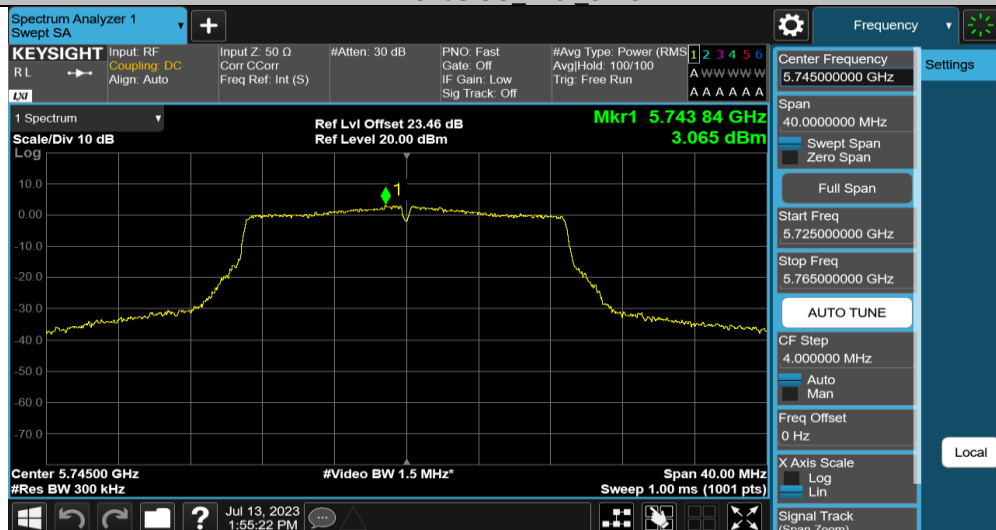
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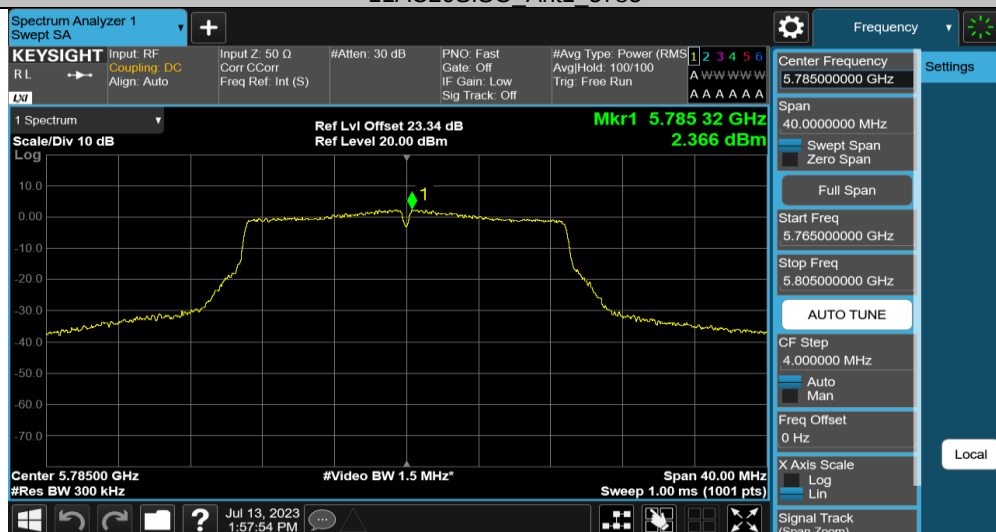
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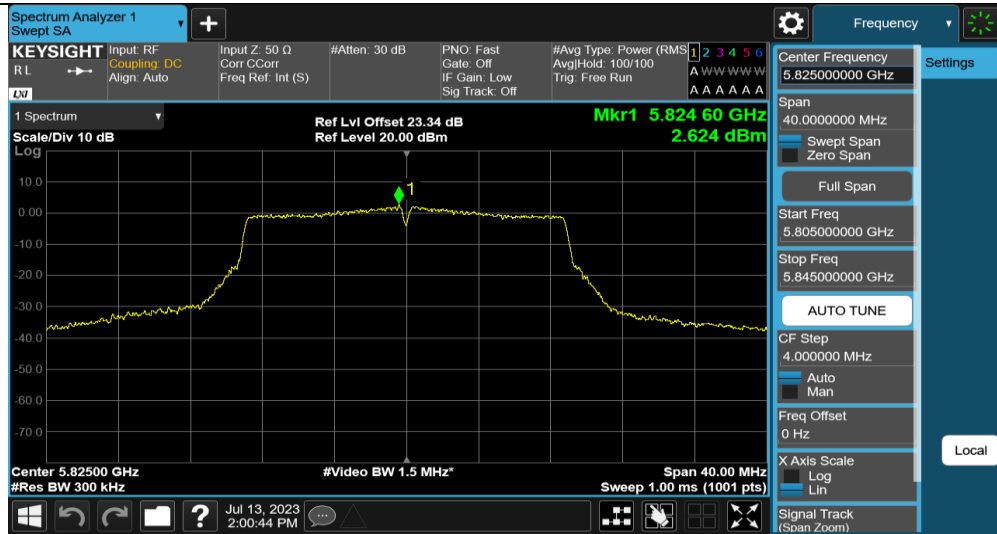
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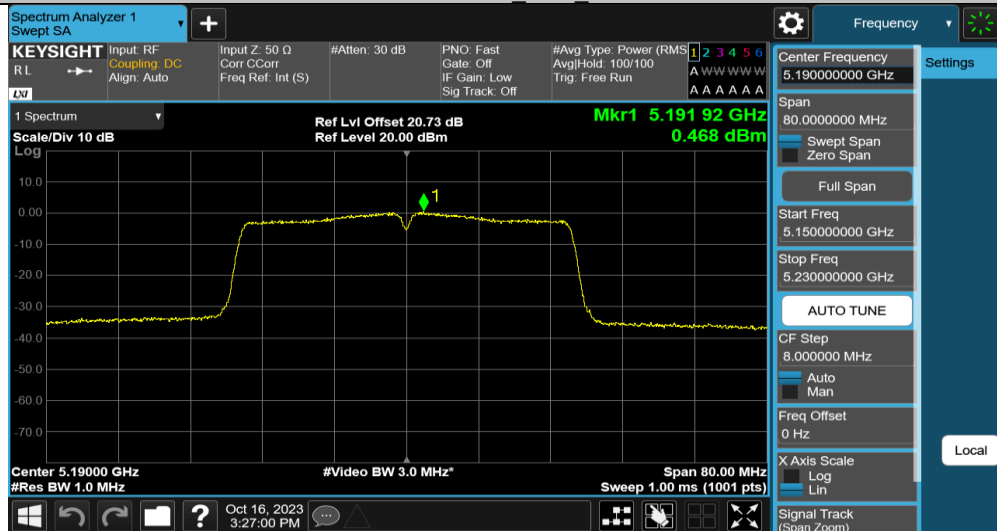
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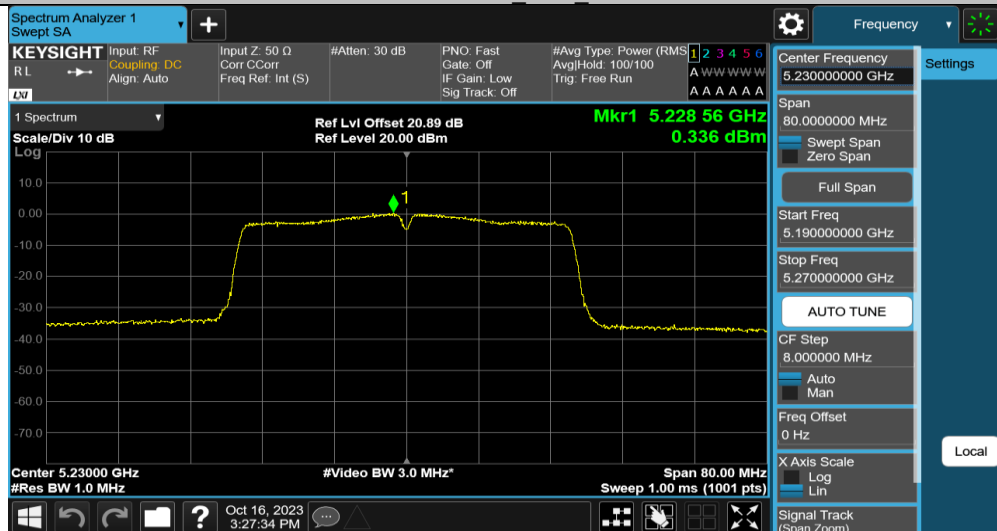
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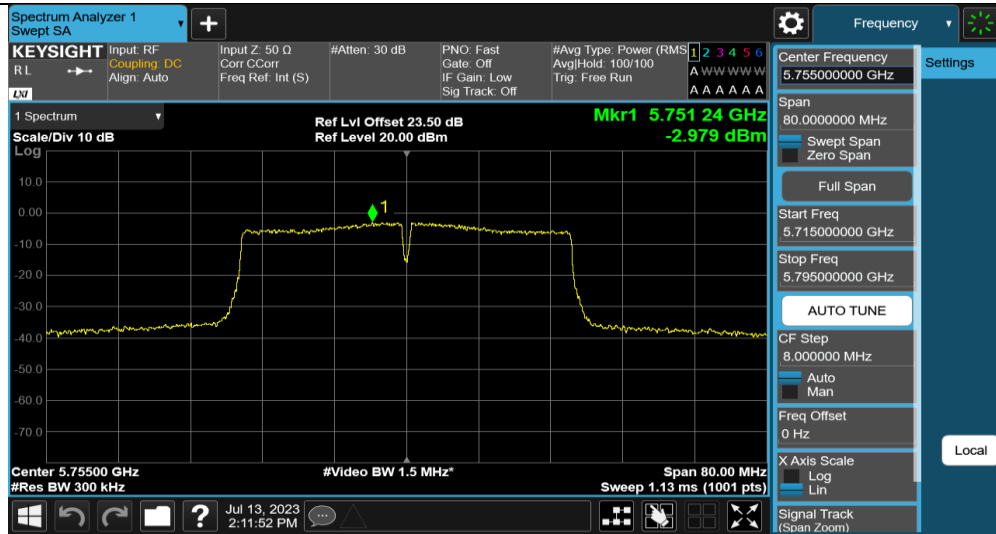
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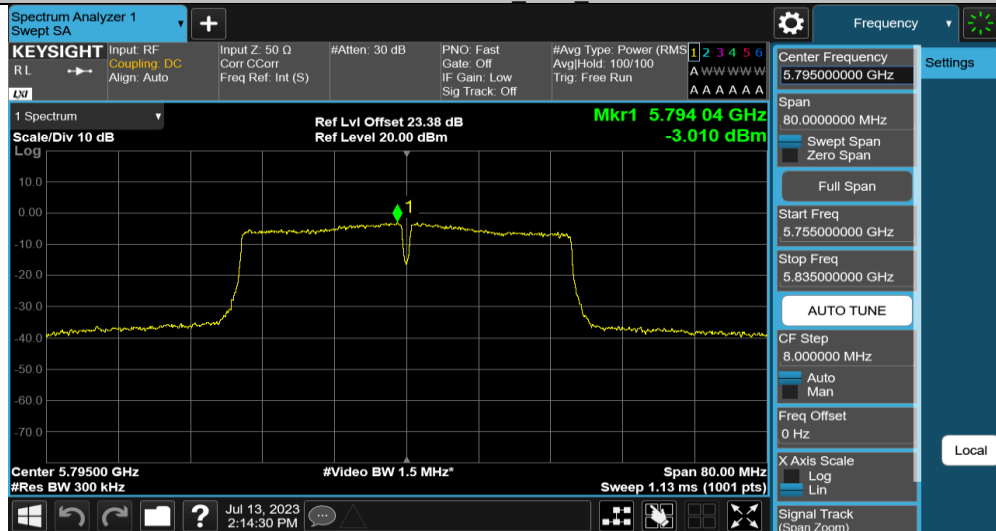
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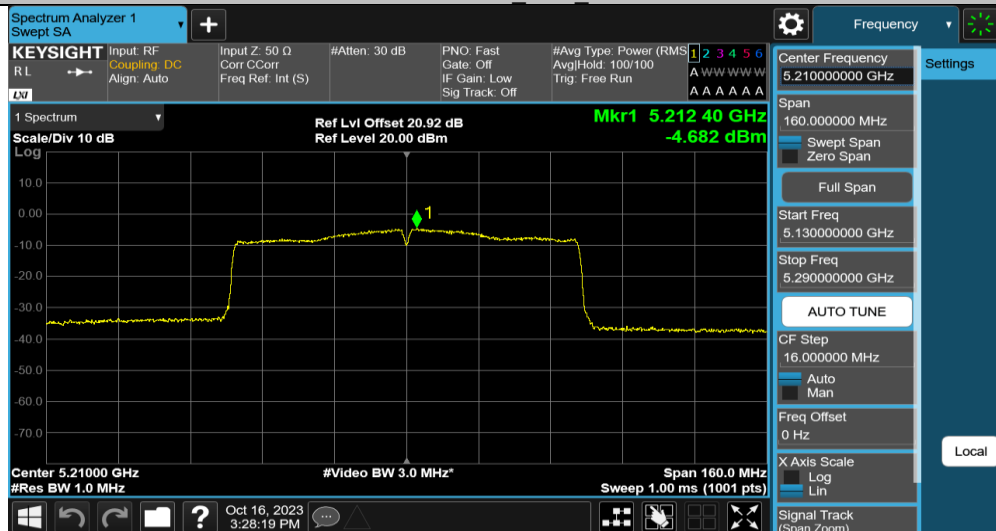
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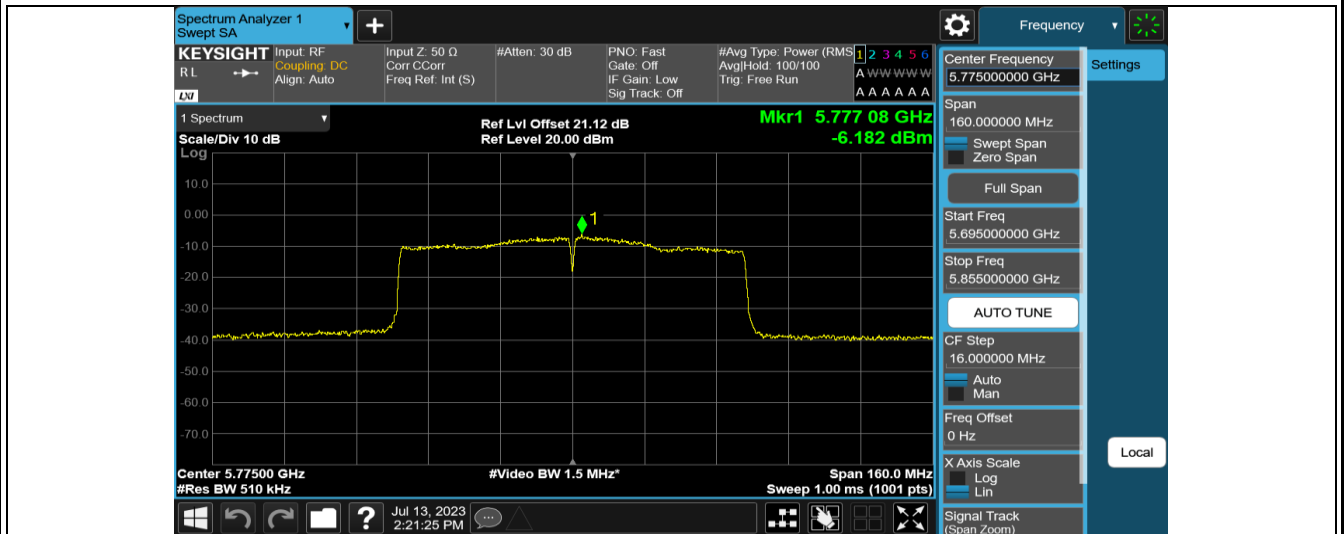
11AC40SISO_Ant1 5795



11AC80SISO_Ant1 5210



11AC80SISO_Ant1 5775



Appendix A.2: Test Results of Frequency Stability

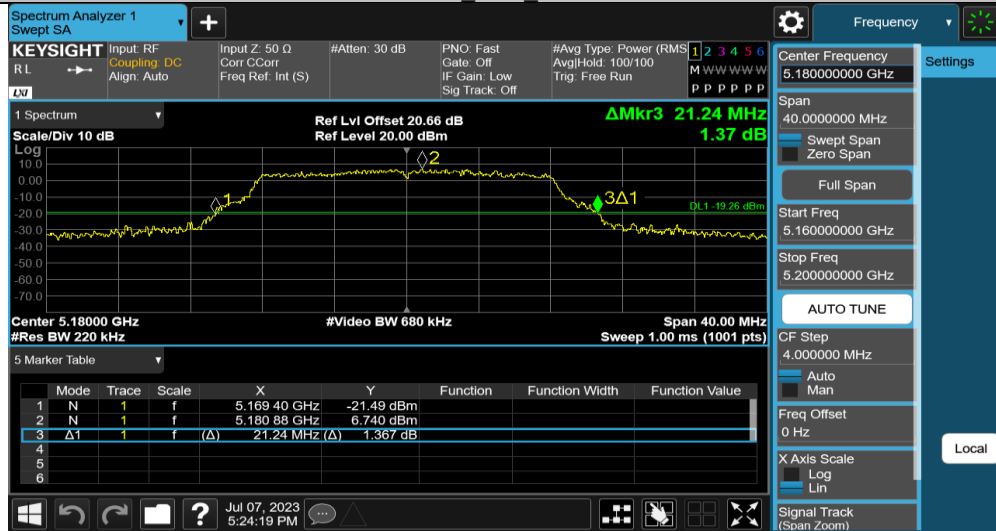
Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5180	NV	NT	-48000.00	-9.266409	20	PASS
		5200	NV	NT	-46000.00	-8.846154	20	PASS
		5240	NV	NT	-48000.00	-9.160305	20	PASS
		5745	NV	NT	-52000.00	-9.051349	20	PASS
		5785	NV	NT	-53000.00	-9.161625	20	PASS
		5825	NV	NT	-55000.00	-9.442060	20	PASS
11AC40SIS O	Ant1	5190	NV	NT	-48000.00	-9.248555	20	PASS
		5230	NV	NT	-49000.00	-9.369025	20	PASS
		5755	NV	NT	-59000.00	-10.251955	20	PASS
		5795	NV	NT	-60000.00	-10.353753	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	-54000.00	-10.364683	20	PASS
		5775	NV	NT	-60000.00	-10.389610	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5180	NV	0	-47000.00	-9.073359	20	PASS
			NV	40	-46000.00	-8.880309	20	PASS
		5200	NV	0	-46000.00	-8.846154	20	PASS
			NV	40	-47000.00	-9.038462	20	PASS
		5240	NV	0	-48000.00	-9.160305	20	PASS
			NV	40	-48000.00	-9.160305	20	PASS
		5745	NV	0	-52000.00	-9.051349	20	PASS
			NV	40	-52000.00	-9.051349	20	PASS
		5785	NV	0	-54000.00	-9.334486	20	PASS
			NV	40	-53000.00	-9.161625	20	PASS
		5825	NV	0	-54000.00	-9.270386	20	PASS
			NV	40	-55000.00	-9.442060	20	PASS
11AC40SIS O	Ant1	5190	NV	0	-49000.00	-9.441233	20	PASS
			NV	40	-48000.00	-9.248555	20	PASS
		5230	NV	0	-49000.00	-9.369025	20	PASS
			NV	40	-49000.00	-9.369025	20	PASS
		5755	NV	0	-59000.00	-10.251955	20	PASS
			NV	40	-60000.00	-10.425717	20	PASS
		5795	NV	0	-60000.00	-10.353753	20	PASS
			NV	40	-60000.00	-10.353753	20	PASS
11AC80SIS O	Ant1	5210	NV	0	-54000.00	-10.364683	20	PASS
			NV	40	-54000.00	-10.364683	20	PASS
		5775	NV	0	-60000.00	-10.389610	20	PASS
			NV	40	-60000.00	-10.389610	20	PASS

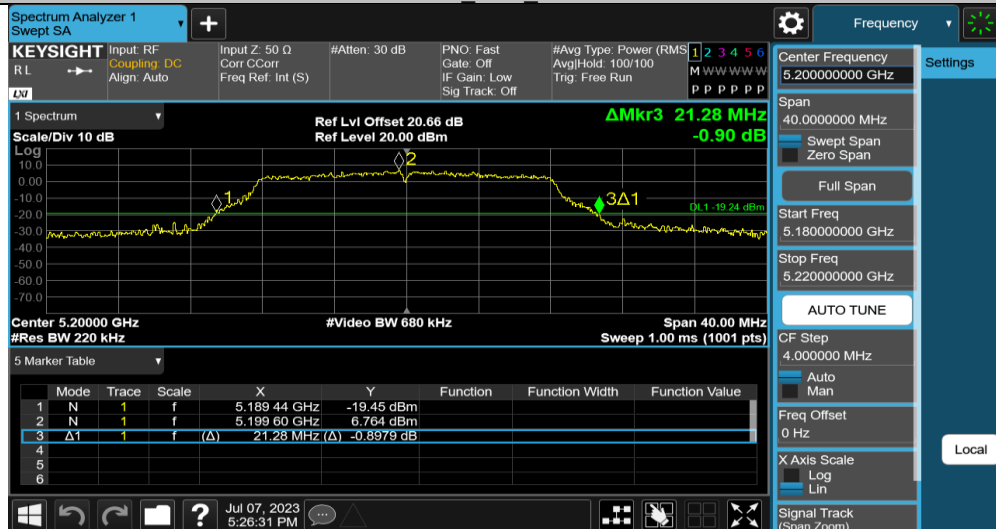
Appendix A.3: Test Results of 26dB Bandwidth

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.240	5169.400	5190.640	---	PASS
		5200	21.280	5189.440	5210.720	---	PASS
		5240	21.080	5229.360	5250.440	---	PASS
		5745	21.360	5734.240	5755.600	---	PASS
		5785	21.080	5774.280	5795.360	---	PASS
		5825	21.280	5814.320	5835.600	---	PASS
11N20SISO	Ant1	5180	21.440	5169.360	5190.800	---	PASS
		5200	21.600	5189.280	5210.880	---	PASS
		5240	21.280	5229.320	5250.600	---	PASS
		5745	21.440	5734.200	5755.640	---	PASS
		5785	21.320	5774.240	5795.560	---	PASS
		5825	21.640	5814.200	5835.840	---	PASS
11N40SISO	Ant1	5190	39.920	5169.840	5209.760	---	PASS
		5230	39.520	5210.240	5249.760	---	PASS
		5755	40.160	5734.760	5774.920	---	PASS
		5795	42.960	5771.960	5814.920	---	PASS
11AC20SISO	Ant1	5180	21.520	5169.200	5190.720	---	PASS
		5200	21.440	5189.360	5210.800	---	PASS
		5240	21.120	5229.400	5250.520	---	PASS
		5745	22.120	5733.680	5755.800	---	PASS
		5785	21.560	5774.120	5795.680	---	PASS
		5825	22.680	5813.080	5835.760	---	PASS
11AC40SISO	Ant1	5190	39.840	5170.160	5210.000	---	PASS
		5230	39.840	5210.080	5249.920	---	PASS
		5755	39.600	5735.160	5774.760	---	PASS
		5795	39.760	5775.240	5815.000	---	PASS
11AC80SISO	Ant1	5210	81.120	5169.360	5250.480	---	PASS
		5775	81.280	5734.200	5815.480	---	PASS

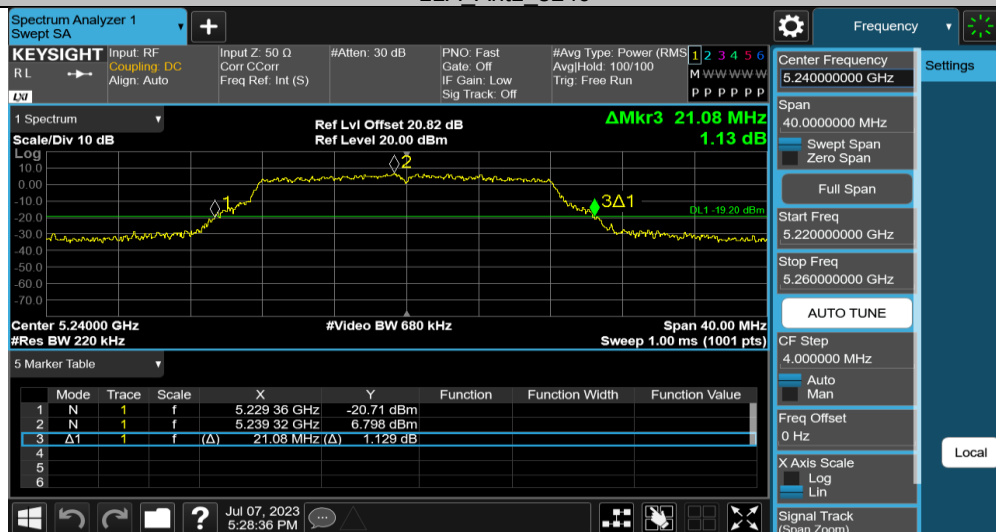
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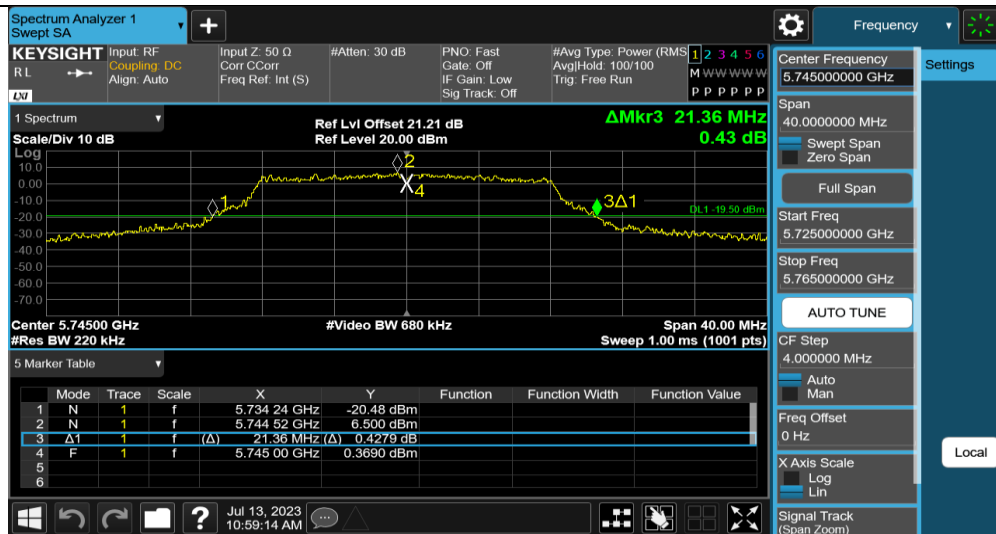
11A_Ant1_5200



11A_Ant1_5240



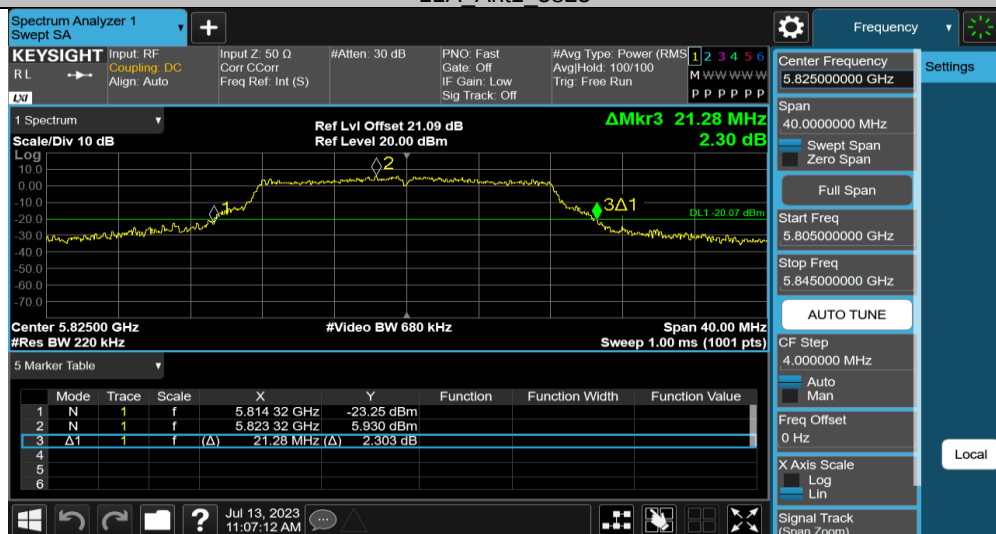
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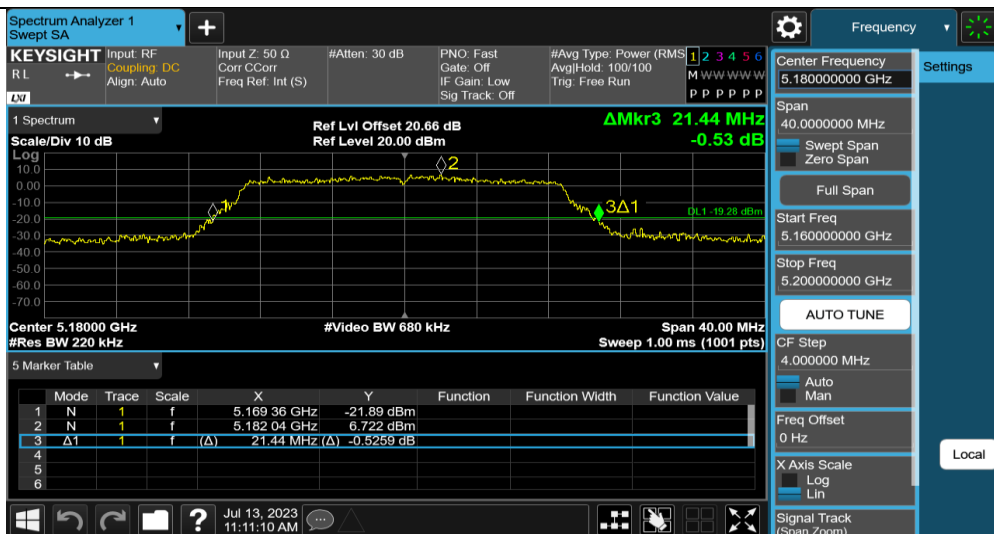
11A Ant1 5785



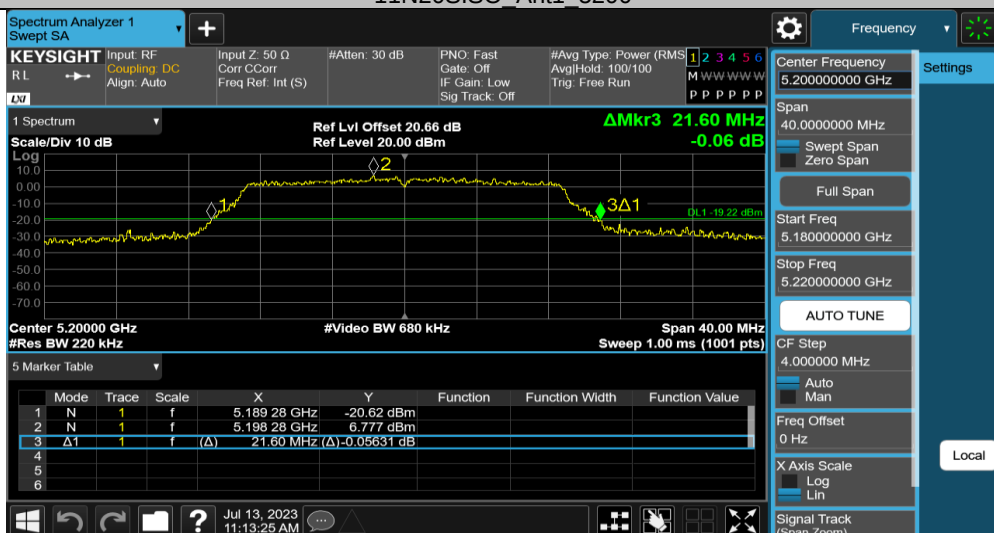
11A Ant1 5825



11N20SISO Ant1 5180



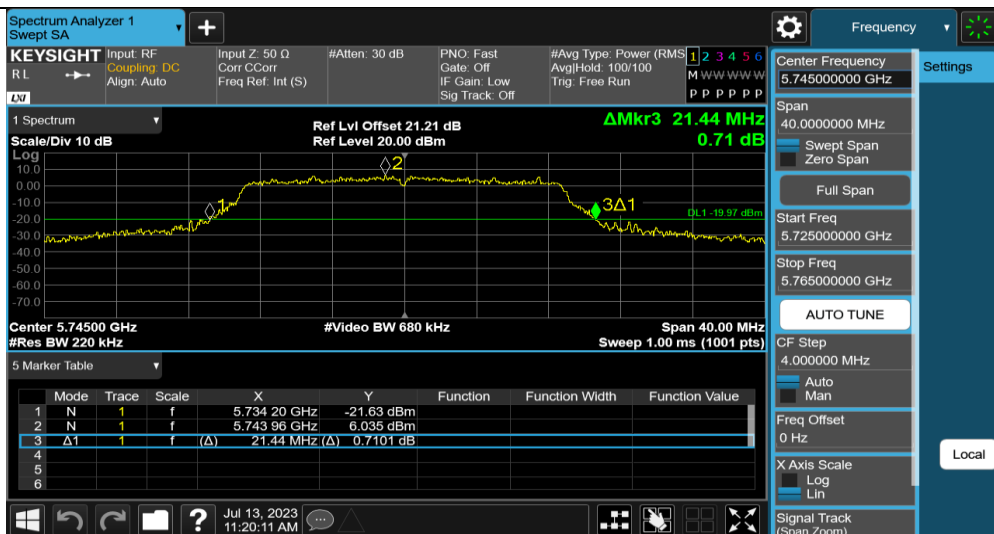
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11N20SISO Ant1 5240



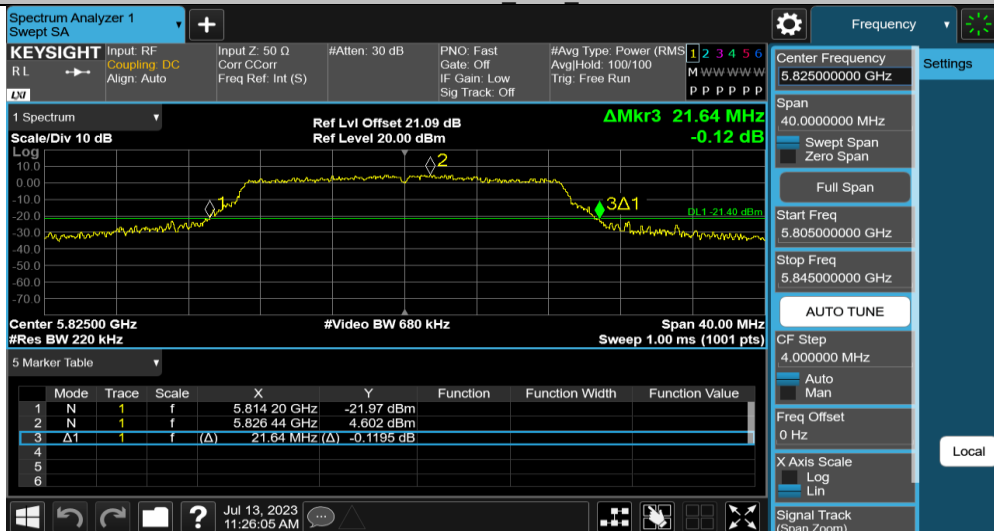
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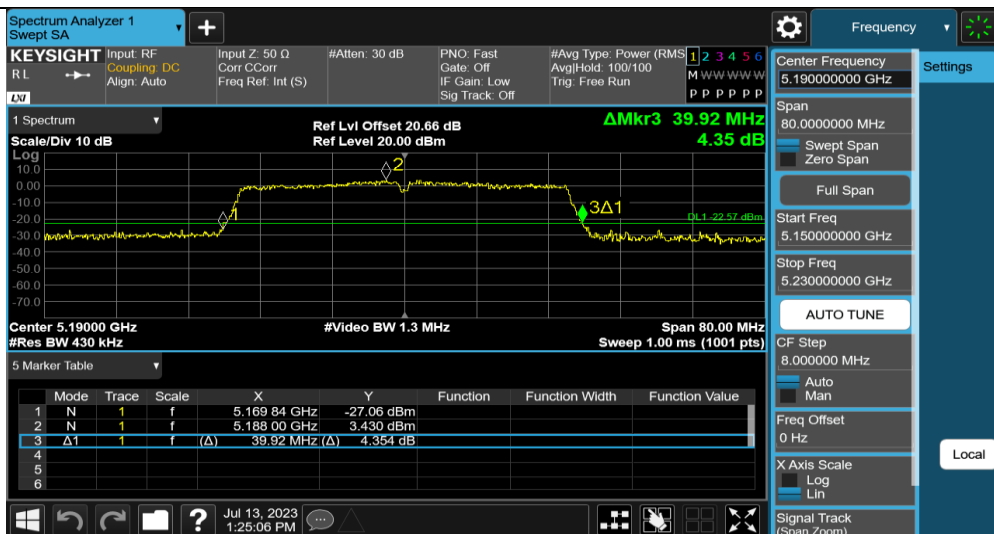
11N20SISO Ant1 5785



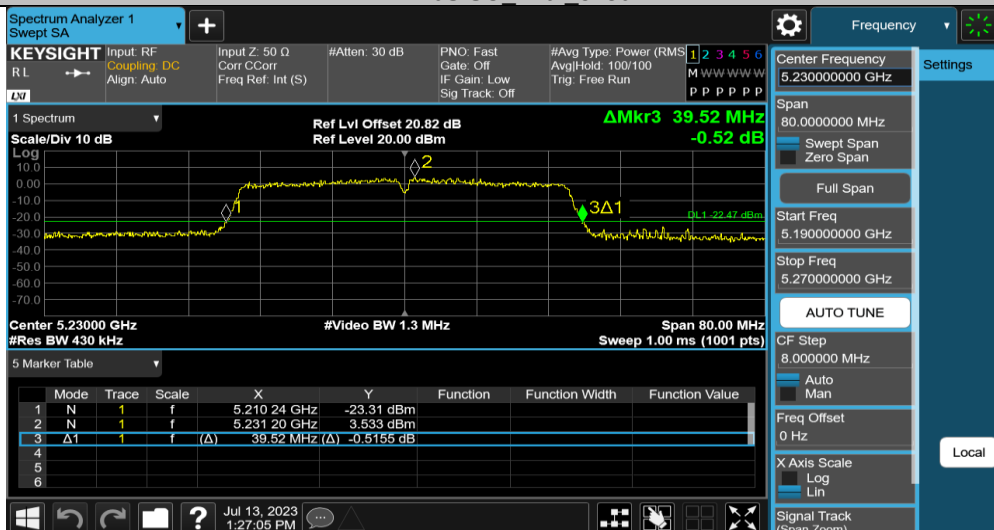
11N20SISO Ant1 5825



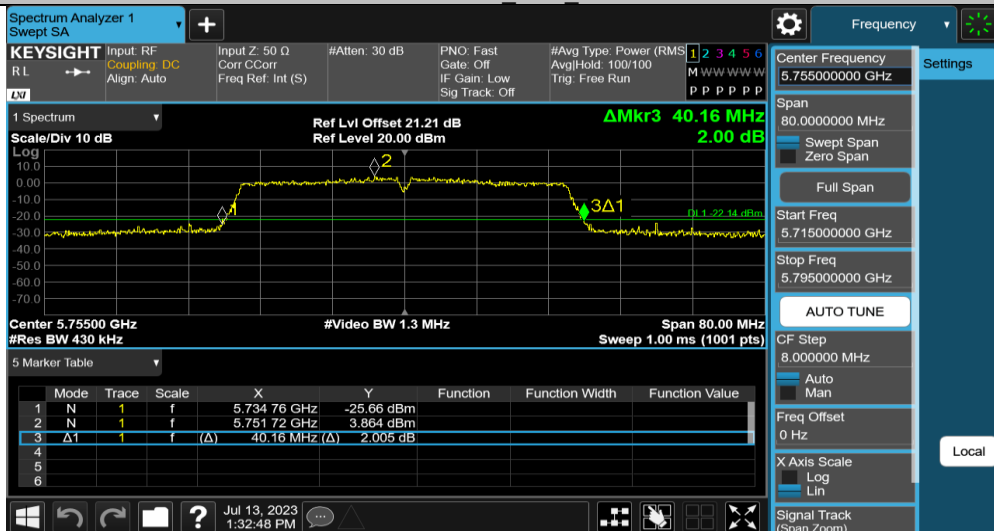
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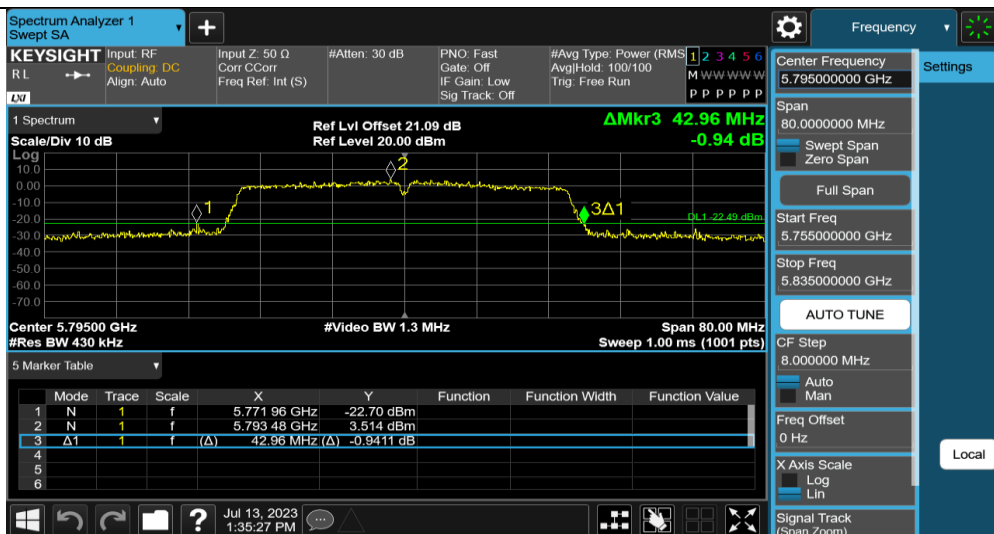
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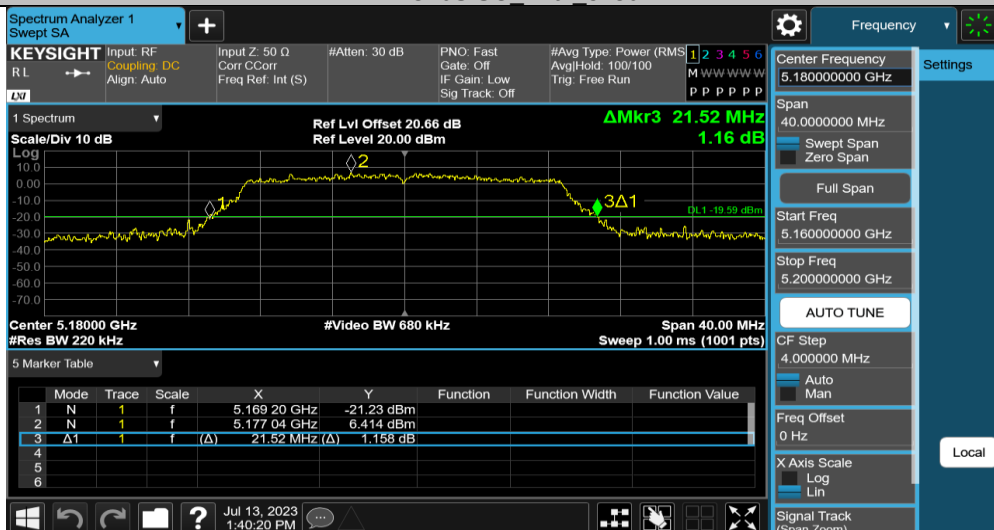
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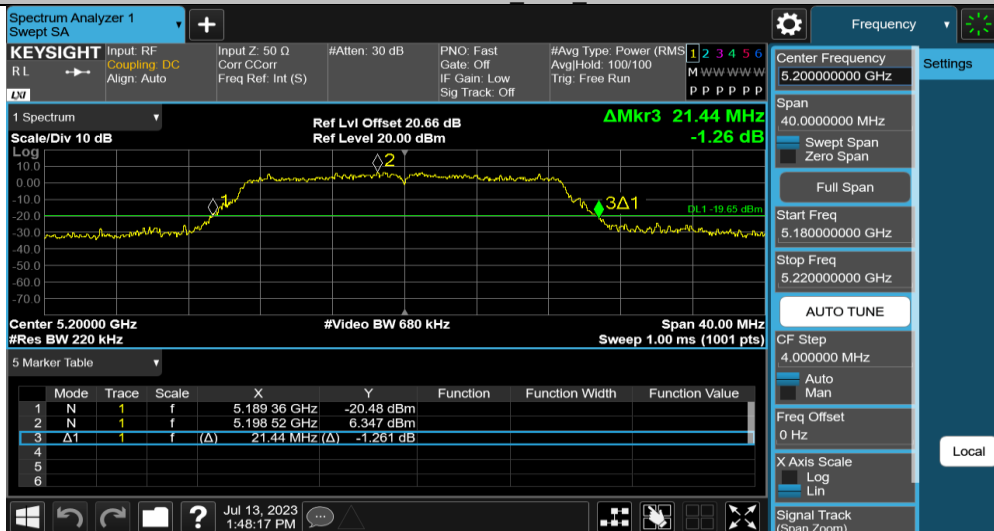
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11AC20SISO_Ant1 5180



11AC20SISO_Ant1 5200



11AC20SISO_Ant1 5240