

Appendix A3: Min emission bandwidth

Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.280	5736.840	5753.120	0.5	PASS
	Ant2	5745	16.240	5736.880	5753.120	0.5	PASS
	Ant1	5785	16.320	5776.840	5793.160	0.5	PASS
	Ant2	5785	16.320	5776.840	5793.160	0.5	PASS
	Ant1	5825	16.280	5816.840	5833.120	0.5	PASS
	Ant2	5825	16.040	5816.840	5832.880	0.5	PASS
11N20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant2	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant1	5785	15.120	5777.440	5792.560	0.5	PASS
	Ant2	5785	15.120	5777.440	5792.560	0.5	PASS
	Ant1	5825	15.120	5817.440	5832.560	0.5	PASS
	Ant2	5825	15.080	5817.440	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
	Ant1	5795	35.120	5777.400	5812.520	0.5	PASS
	Ant2	5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant2	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant1	5785	15.080	5777.480	5792.560	0.5	PASS
	Ant2	5785	15.040	5777.480	5792.520	0.5	PASS
	Ant1	5825	15.120	5817.440	5832.560	0.5	PASS
	Ant2	5825	15.080	5817.440	5832.520	0.5	PASS
11AC40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
	Ant2	5755	35.120	5737.400	5772.520	0.5	PASS
	Ant1	5795	35.120	5777.400	5812.520	0.5	PASS
	Ant2	5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS
	Ant2	5775	72.640	5737.400	5810.040	0.5	PASS



Test Graphs B4



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11A_Ant2_5785



11A_Ant1_5825



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11A_Ant2_5825



11N20SISO_Ant1_5745



11N20SISO_Ant2_5745

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11N20SISO_Ant1_5785



11N20SISO_Ant2_5785



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11N20SISO_Ant1_5825



11N20SISO_Ant2_5825



11N40SISO_Ant1_5755

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11N40SISO_Ant2_5755



11N40SISO_Ant1_5795



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11N40SISO_Ant2_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant2_5745





11AC20SISO_Ant1_5785



11AC20SISO_Ant2_5785



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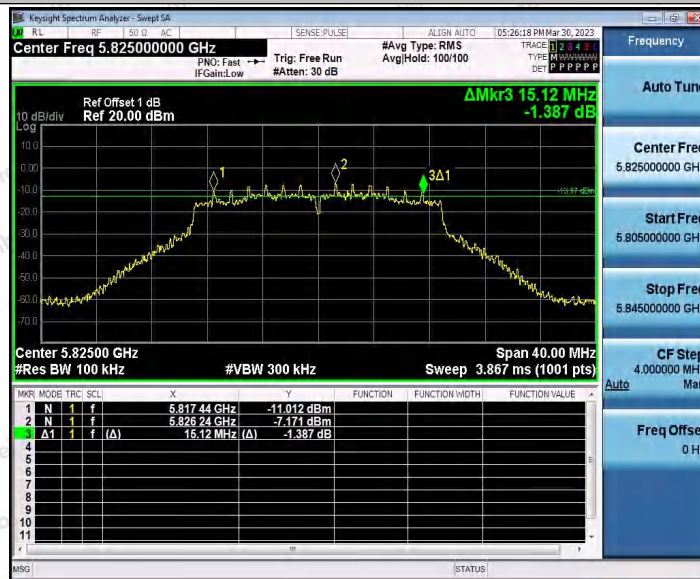
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11AC20SISO_Ant1_5825



11AC20SISO_Ant2_5825



11AC40SISO_Ant1_5755

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11AC40SISO_Ant2_5755



11AC40SISO_Ant1_5795



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11AC40SISO_Ant2_5795



11AC80SISO_Ant1_5775



11AC80SISO_Ant2_5775

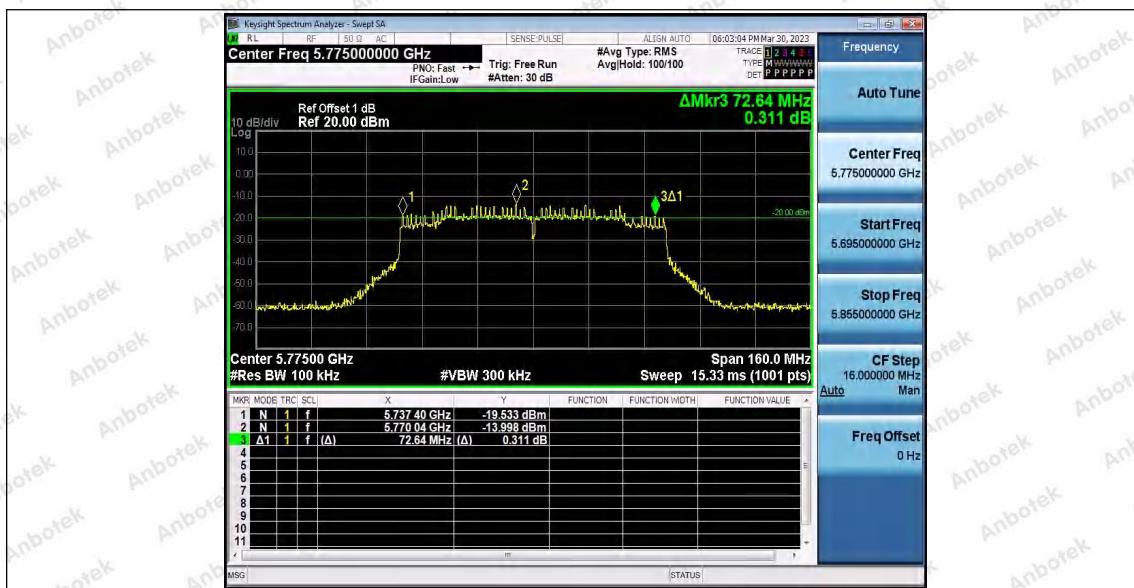
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Appendix B: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.15	0.20	75.00
	Ant2	5180	0.15	0.20	75.00
	Ant1	5200	0.15	0.19	78.95
	Ant2	5200	0.14	0.19	73.68
	Ant1	5240	0.15	0.19	78.95
	Ant2	5240	0.15	0.20	75.00
	Ant1	5745	0.14	0.19	73.68
	Ant2	5745	0.14	0.19	73.68
	Ant1	5785	0.15	0.20	75.00
	Ant2	5785	0.14	0.19	73.68
	Ant1	5825	0.14	0.19	73.68
	Ant2	5825	0.15	0.20	75.00
11N20SISO	Ant1	5180	0.17	0.22	77.27
	Ant2	5180	0.18	0.22	81.82
	Ant1	5200	0.18	0.23	78.26
	Ant2	5200	0.18	0.23	78.26
	Ant1	5240	0.17	0.22	77.27
	Ant2	5240	0.17	0.22	77.27
	Ant1	5745	0.17	0.22	77.27
	Ant2	5745	0.17	0.22	77.27
	Ant1	5785	0.17	0.22	77.27
	Ant2	5785	0.17	0.22	77.27
	Ant1	5825	0.18	0.22	81.82
	Ant2	5825	0.18	0.23	78.26
11N40SISO	Ant1	5190	0.18	0.22	81.82
	Ant2	5190	0.18	0.23	78.26
	Ant1	5230	0.18	0.22	81.82
	Ant2	5230	0.18	0.23	78.26
	Ant1	5755	0.18	0.23	78.26
	Ant2	5755	0.18	0.23	78.26
	Ant1	5795	0.18	0.23	78.26
	Ant2	5795	0.18	0.23	78.26
11AC20SISO	Ant1	5180	0.16	0.21	76.19
	Ant2	5180	0.17	0.22	77.27
	Ant1	5200	0.17	0.21	80.95
	Ant2	5200	0.17	0.22	77.27
	Ant1	5240	0.17	0.21	80.95

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	Ant2	5240	0.16	0.21	76.19
	Ant1	5745	0.17	0.21	80.95
	Ant2	5745	0.16	0.21	76.19
	Ant1	5785	0.17	0.22	77.27
	Ant2	5785	0.16	0.21	76.19
	Ant1	5825	0.16	0.21	76.19
	Ant2	5825	0.16	0.21	76.19
11AC40SISO	Ant1	5190	0.16	0.20	80.00
	Ant2	5190	0.16	0.21	76.19
	Ant1	5230	0.16	0.21	76.19
	Ant2	5230	0.16	0.21	76.19
	Ant1	5755	0.16	0.21	76.19
	Ant2	5755	0.15	0.20	75.00
	Ant1	5795	0.16	0.21	76.19
	Ant2	5795	0.15	0.20	75.00
11AC80SISO	Ant1	5210	0.17	0.22	77.27
	Ant2	5210	0.16	0.21	76.19
	Ant1	5775	0.16	0.21	76.19
	Ant2	5775	0.16	0.21	76.19

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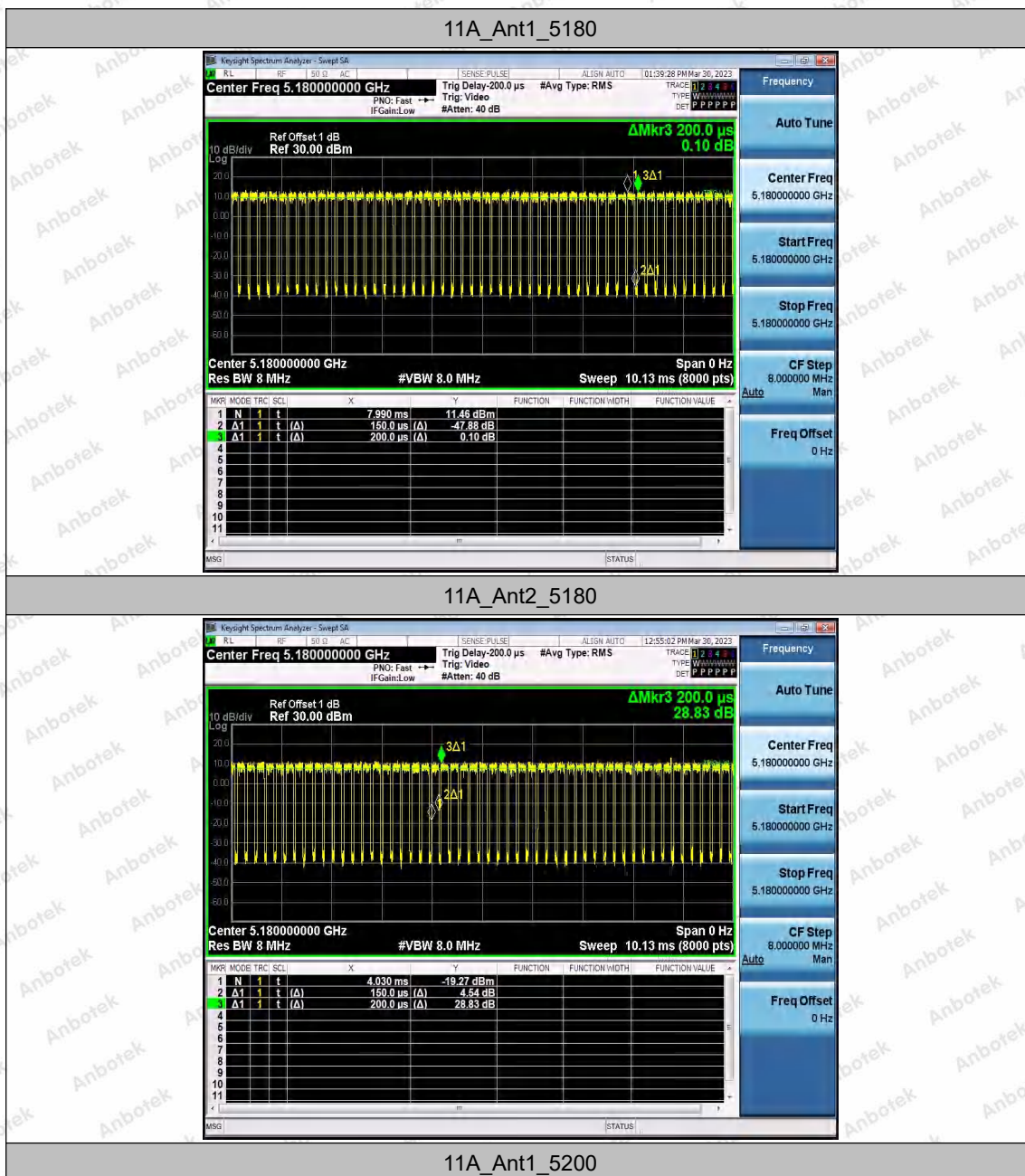
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Test Graphs



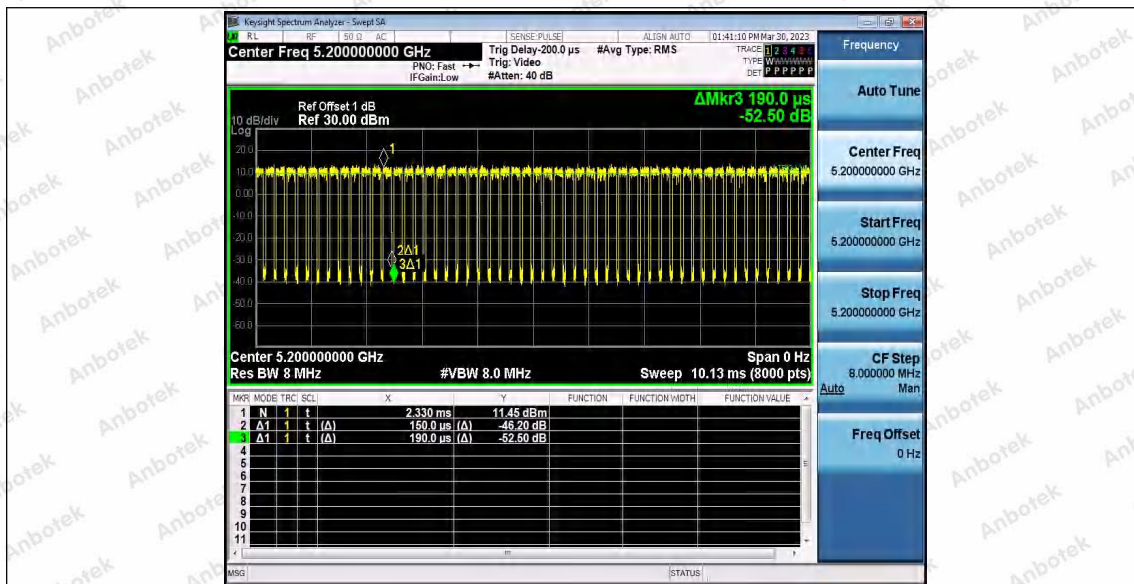
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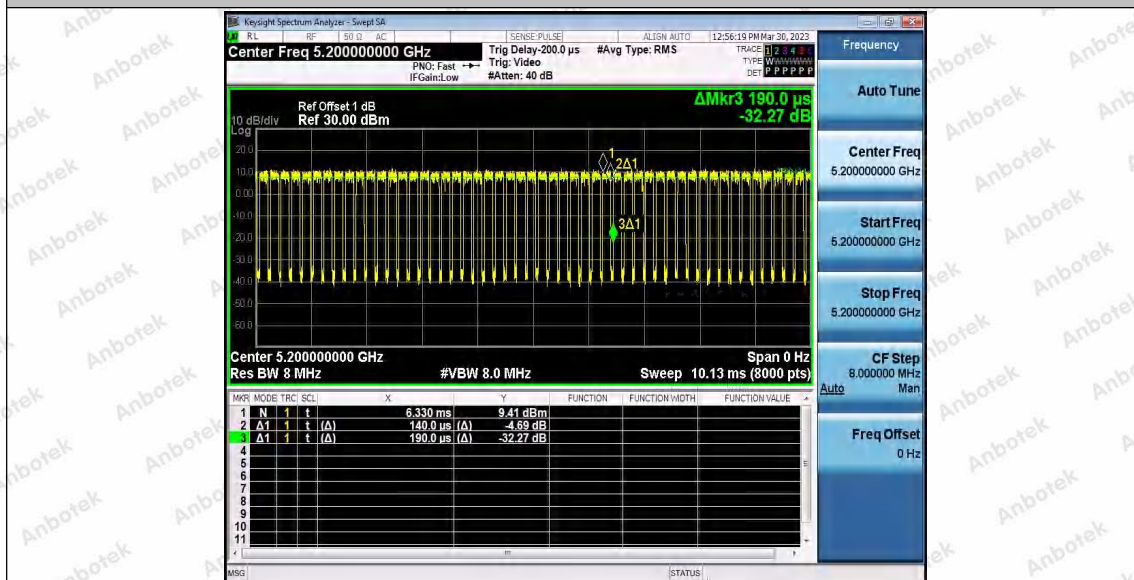


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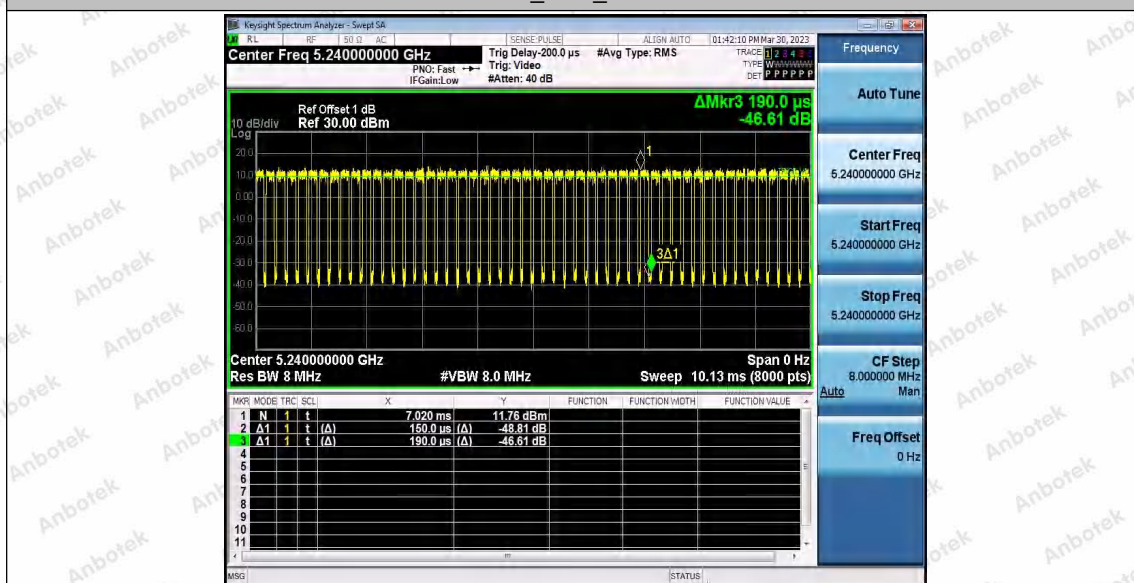




11A_Ant2_5200



11A_Ant1_5240



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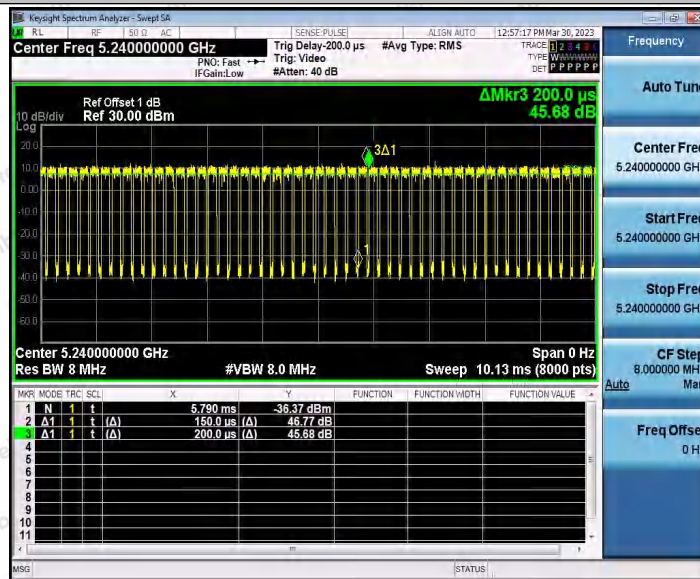
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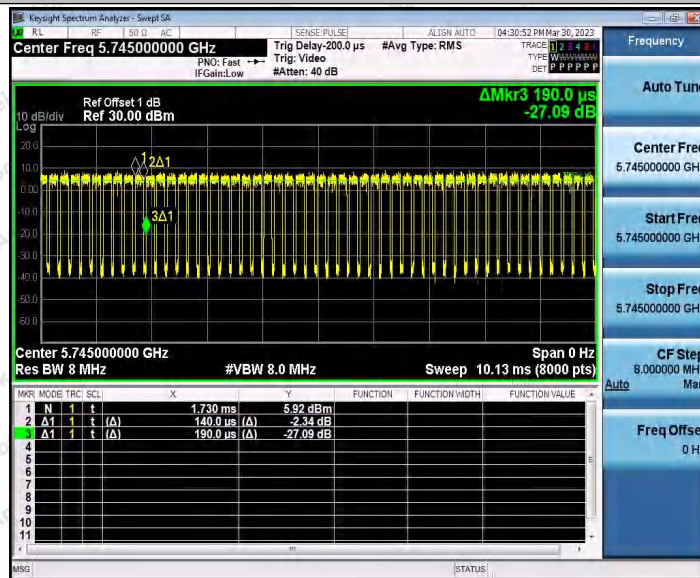
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11A_Ant2_5240



11A_Ant1_5745



11A_Ant2_5745

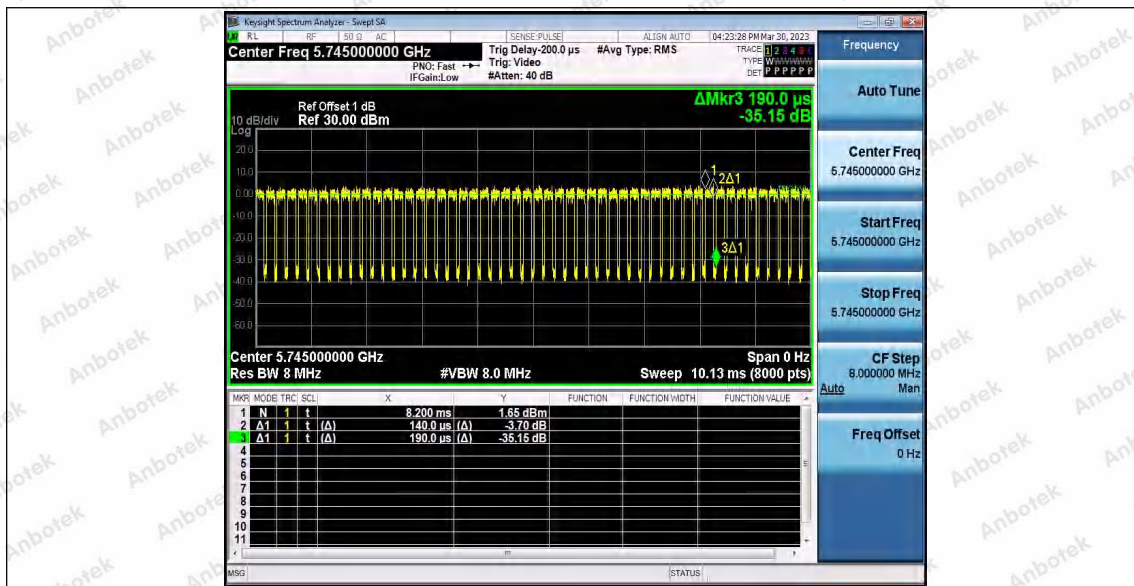
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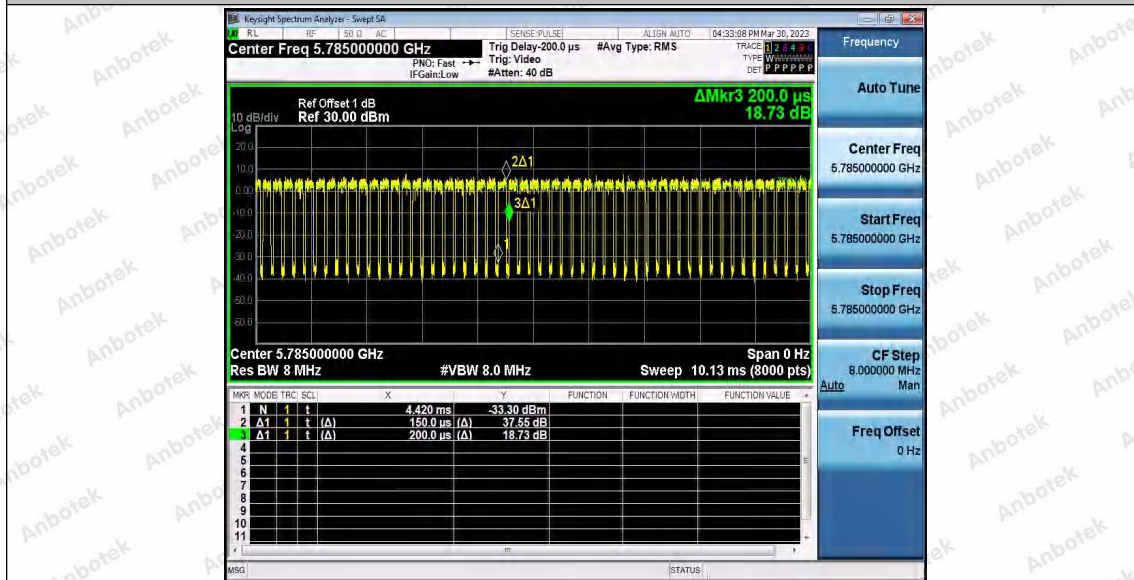


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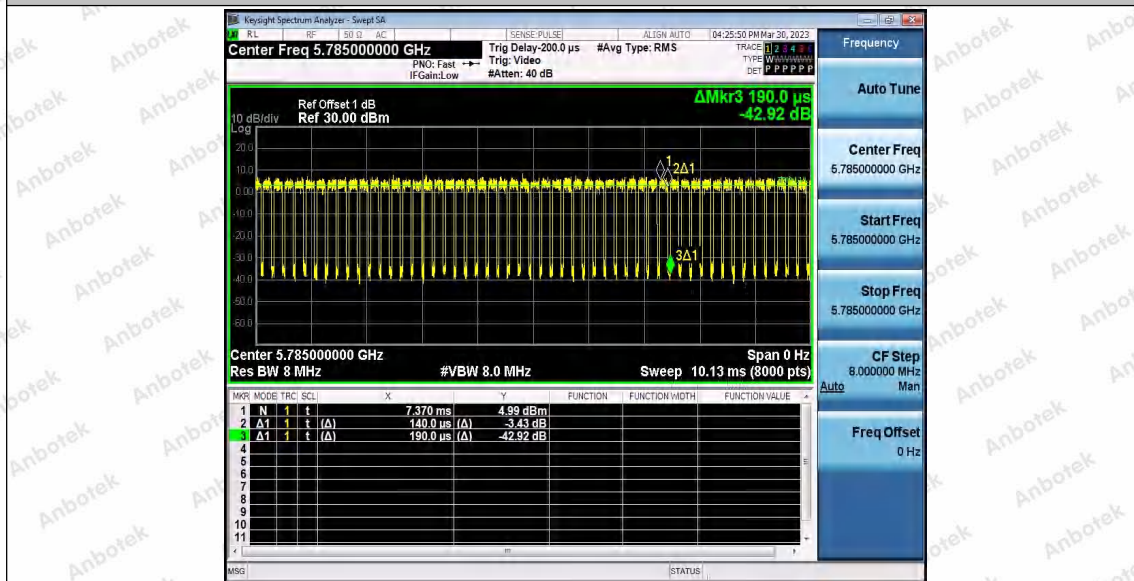




11A_Ant1_5785



11A_Ant2_5785



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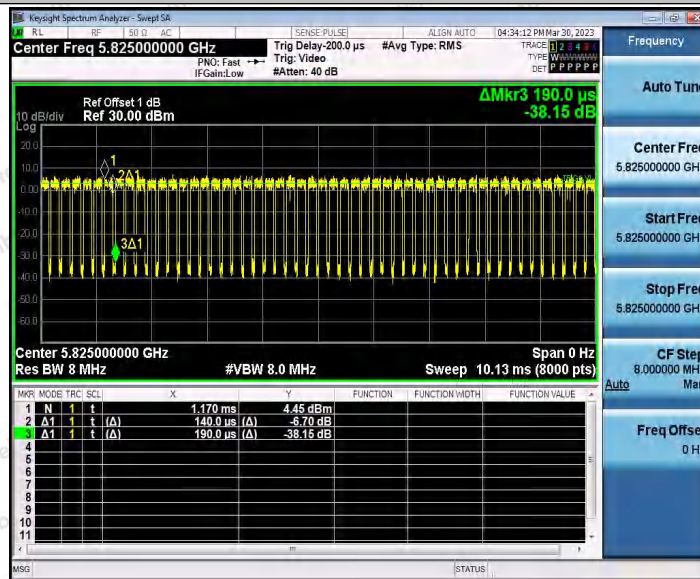
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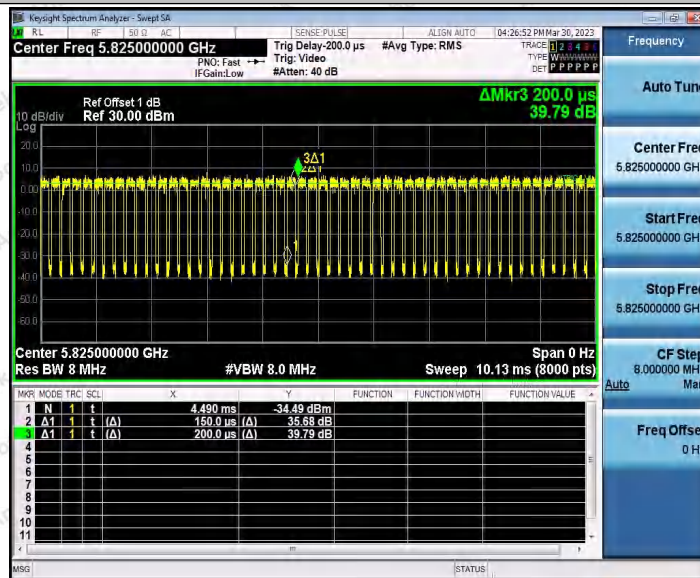
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11A_Ant1_5825



11A_Ant2_5825



11N20SISO_Ant1_5180

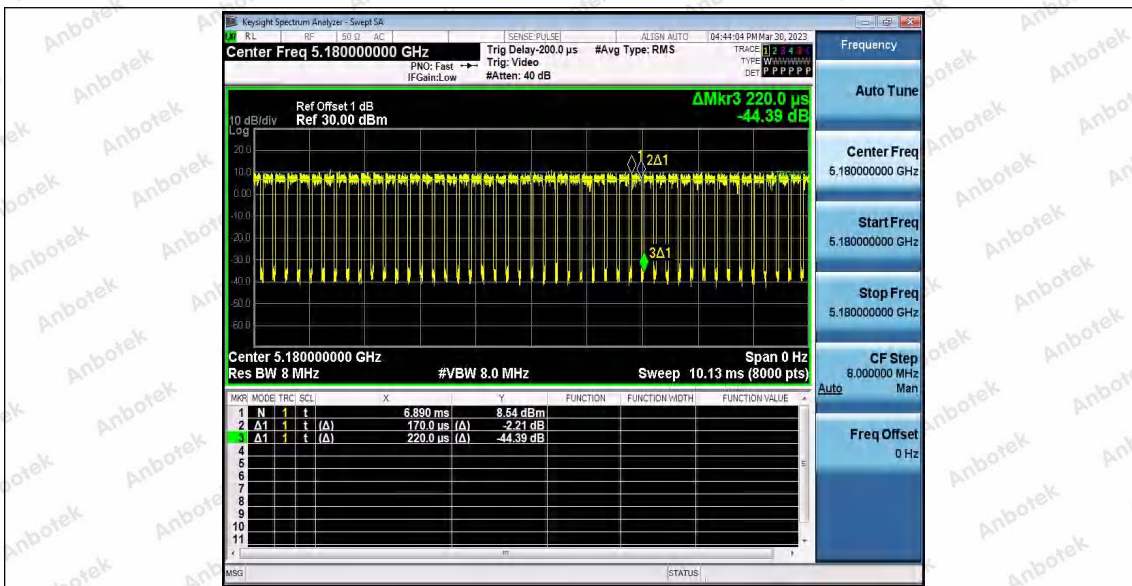
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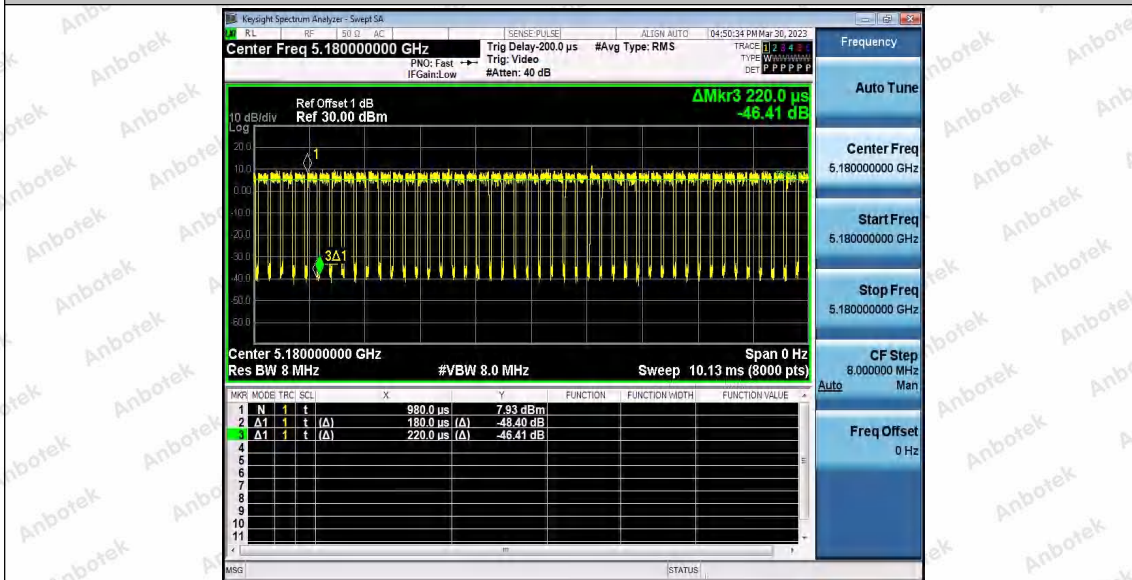


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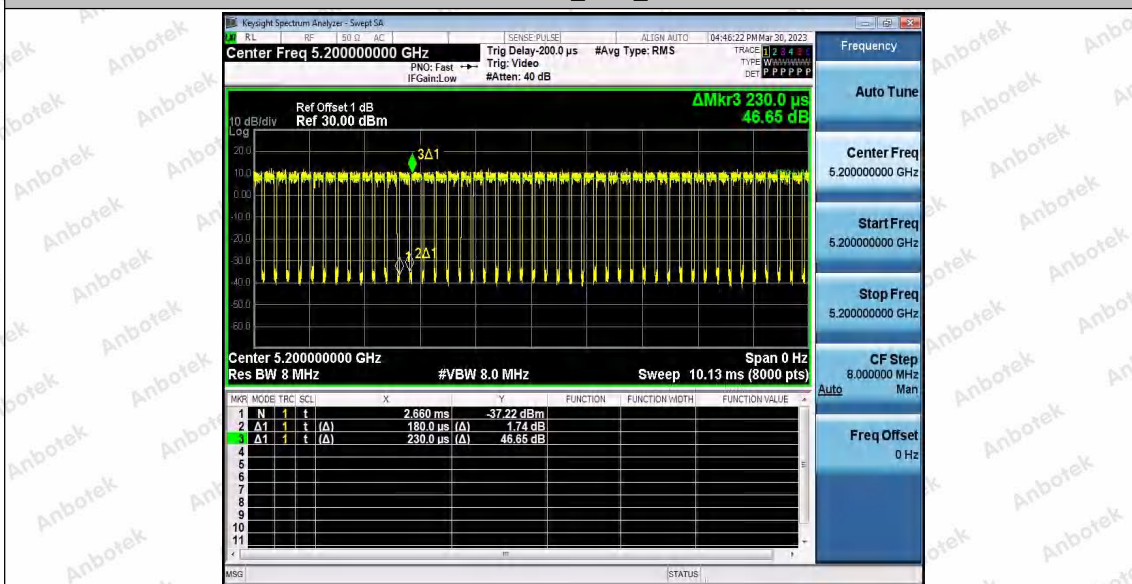




11N20SISO_Ant2_5180



11N20SISO_Ant1_5200



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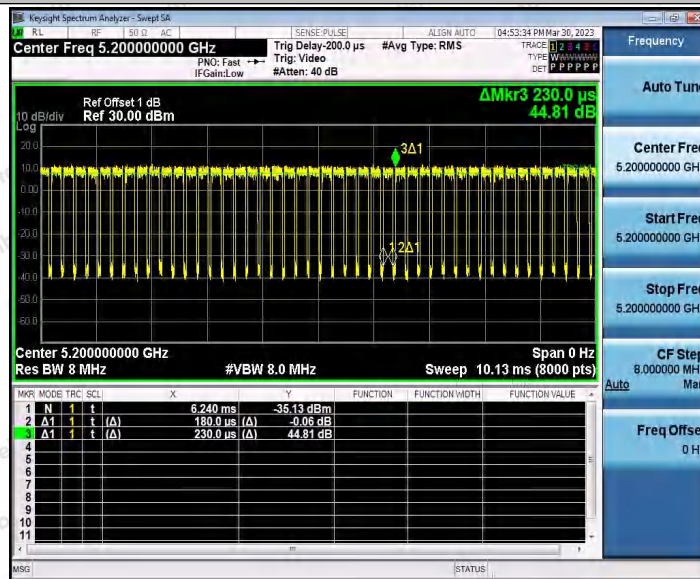
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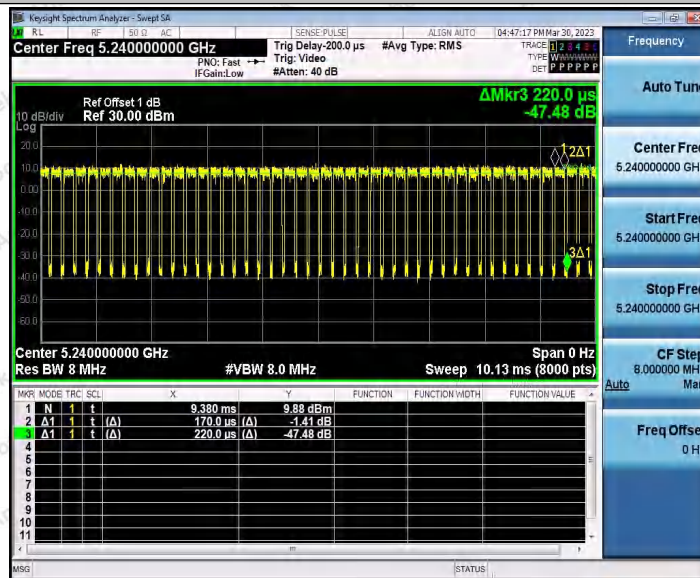
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11N20SISO_Ant2_5200



11N20SISO_Ant1_5240



11N20SISO_Ant2_5240

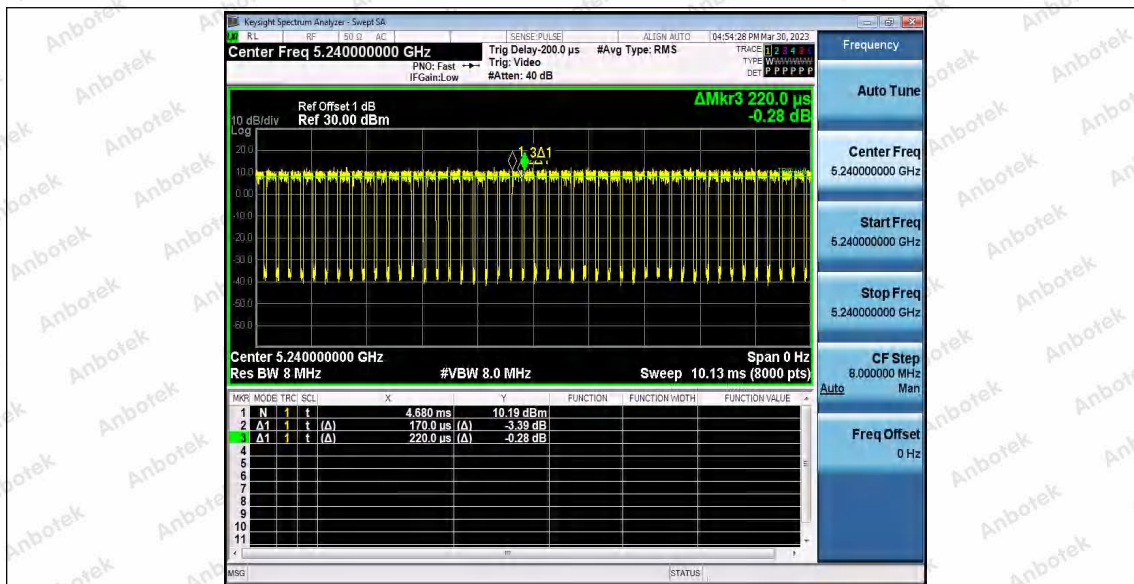
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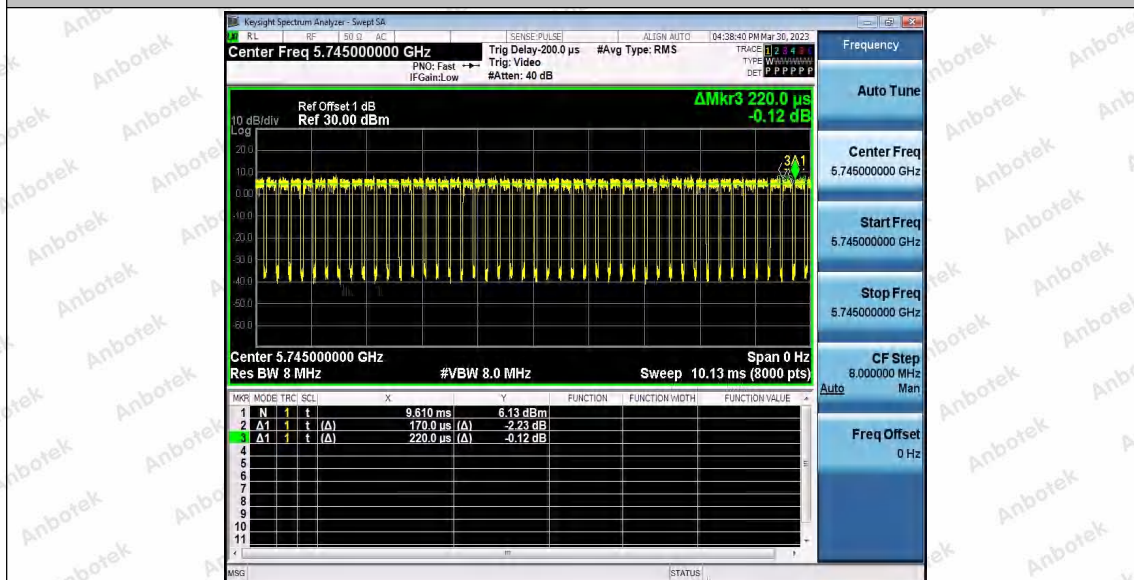


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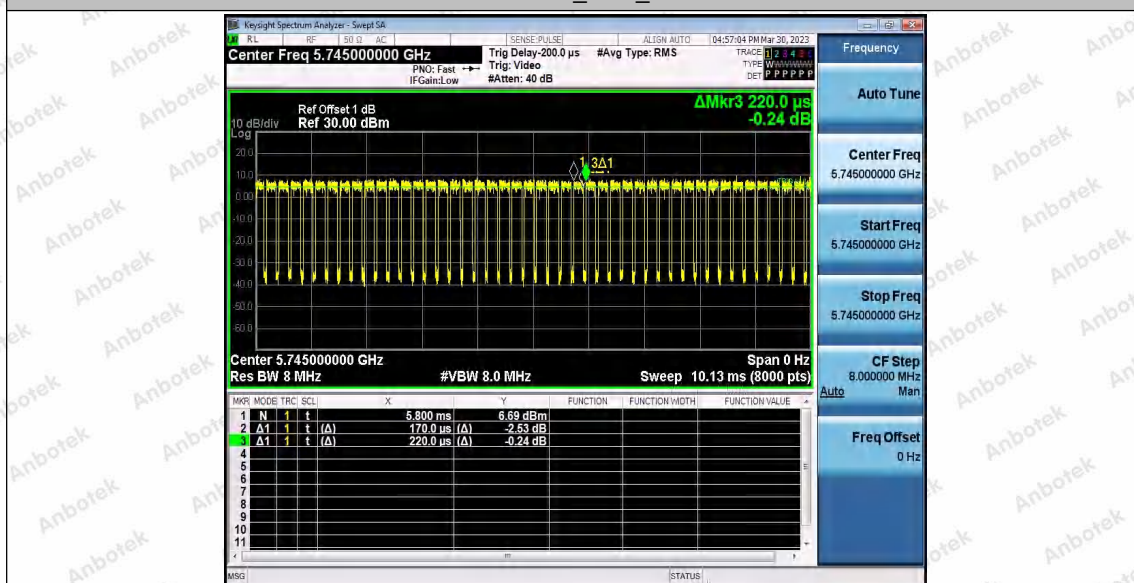




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11N20SISO_Ant2_5745



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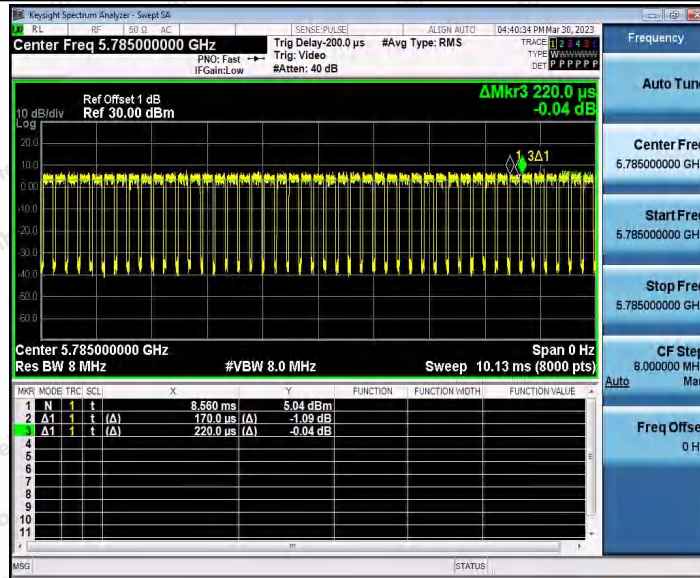
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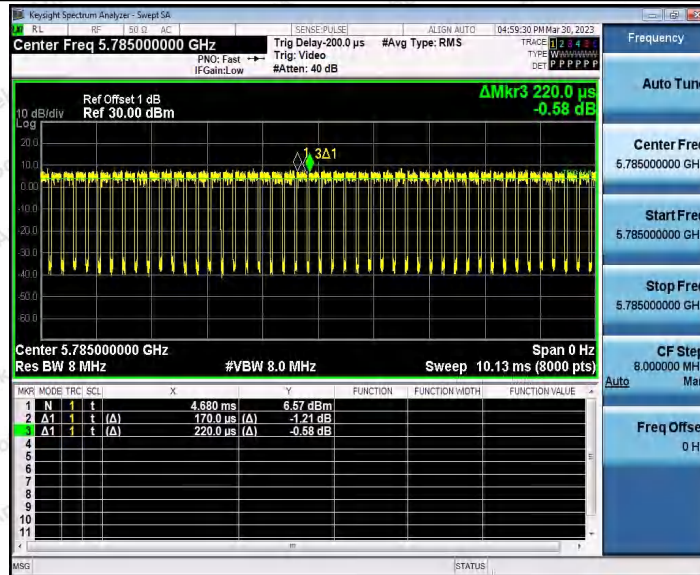
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11N20SISO_Ant1_5785



11N20SISO_Ant2_5785



11N20SISO_Ant1_5825

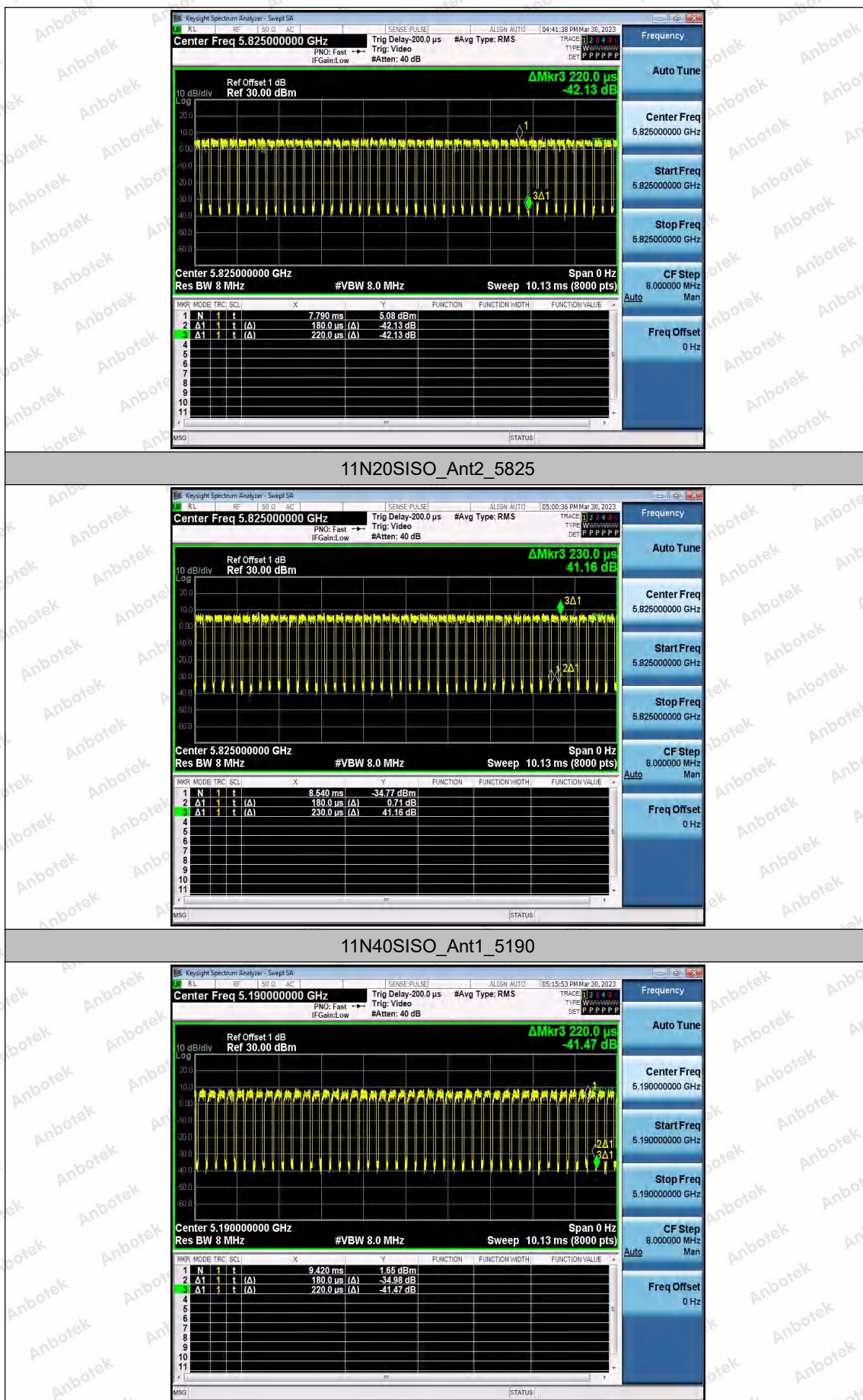
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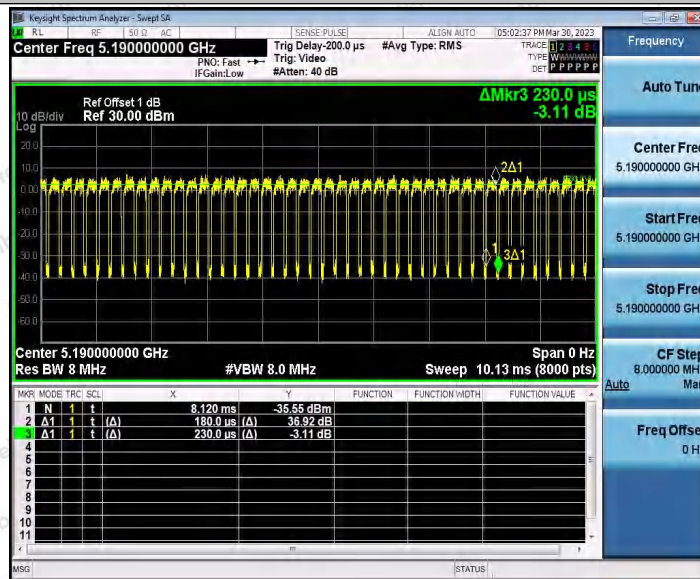
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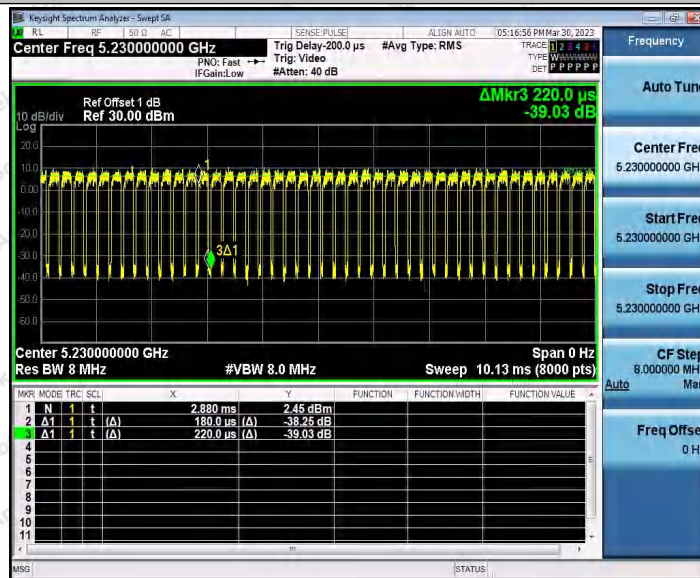
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11N40SISO_Ant2_5190



11N40SISO_Ant1_5230



11N40SISO_Ant2_5230

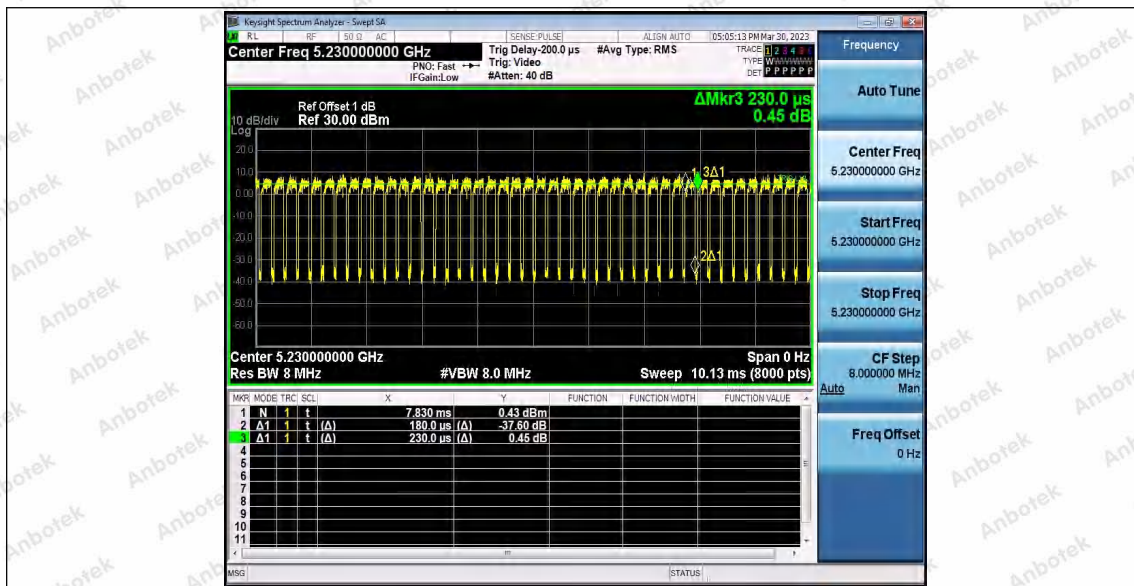
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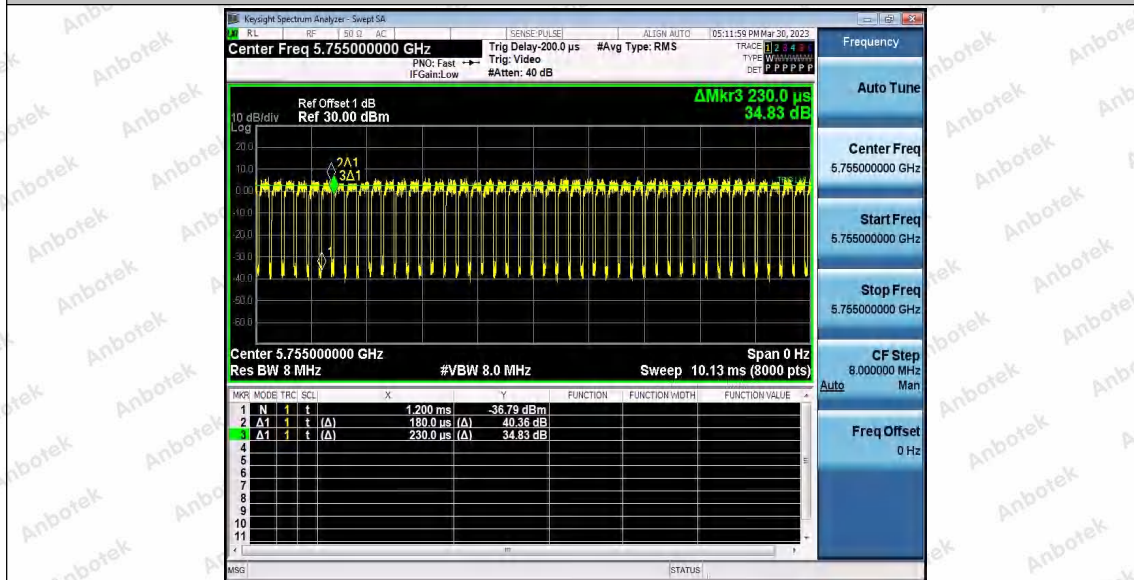


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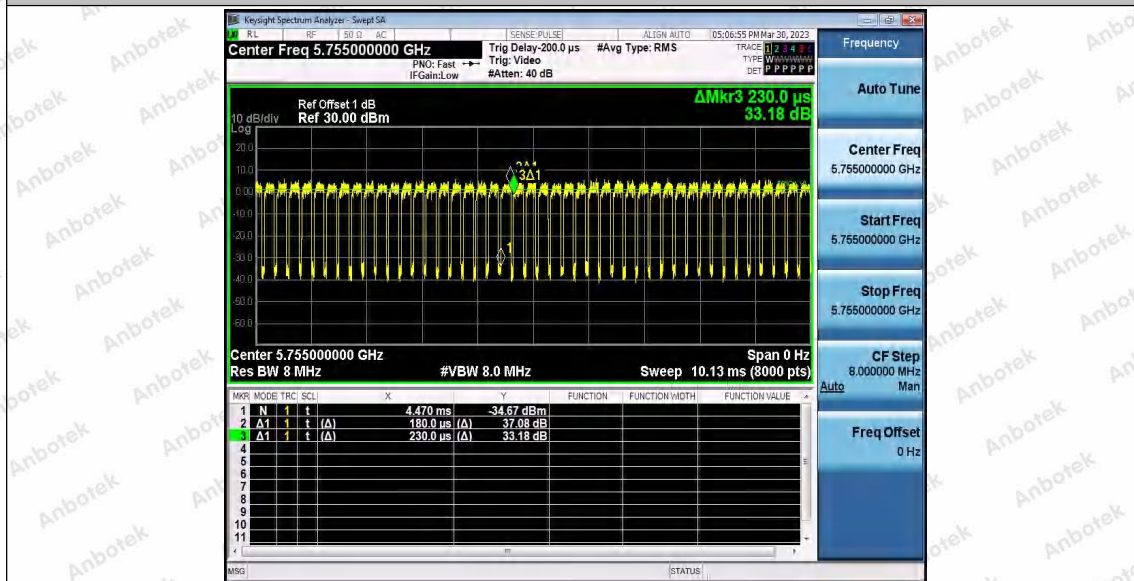




11N40SISO_Ant1_5755



11N40SISO_Ant2_5755



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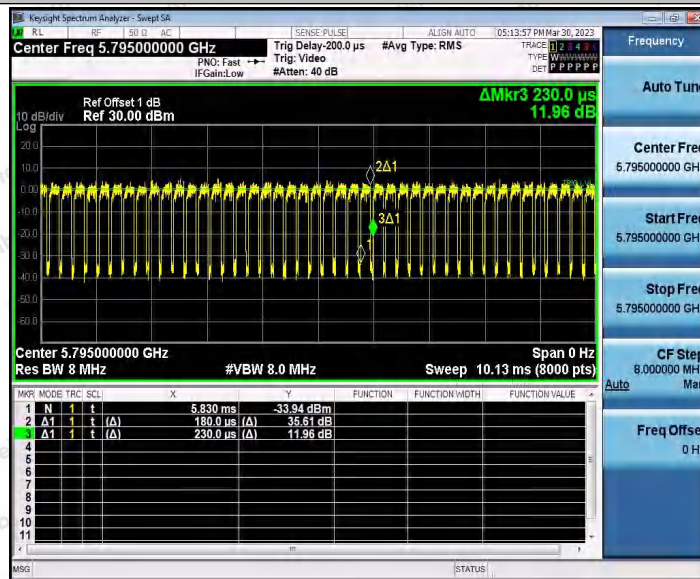
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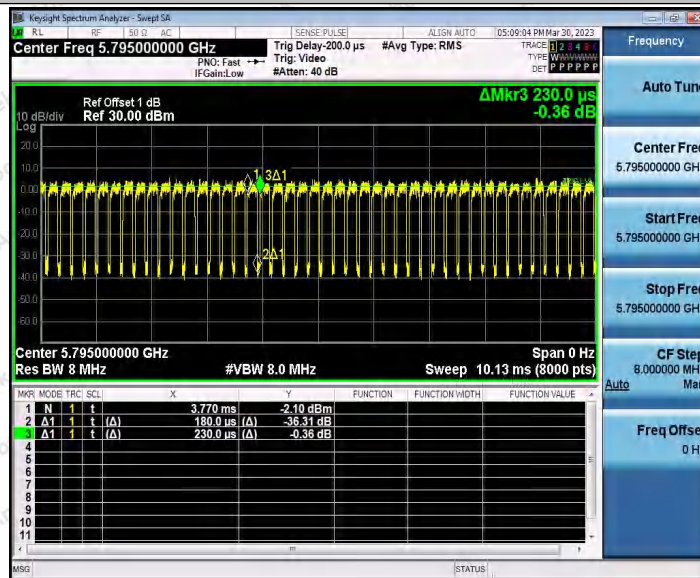
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11N40SISO_Ant1_5795



11N40SISO_Ant2_5795



11AC20SISO_Ant1_5180

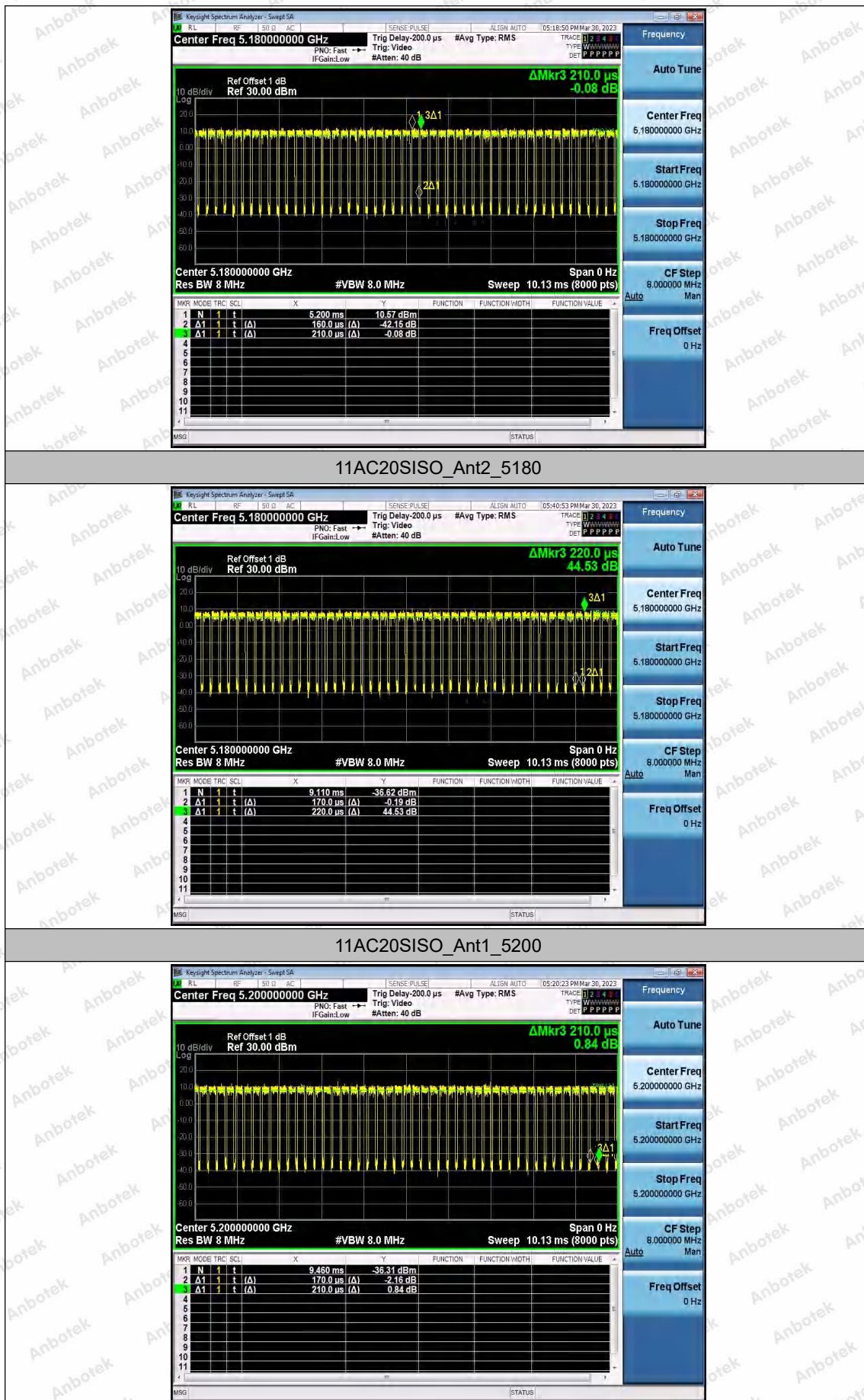
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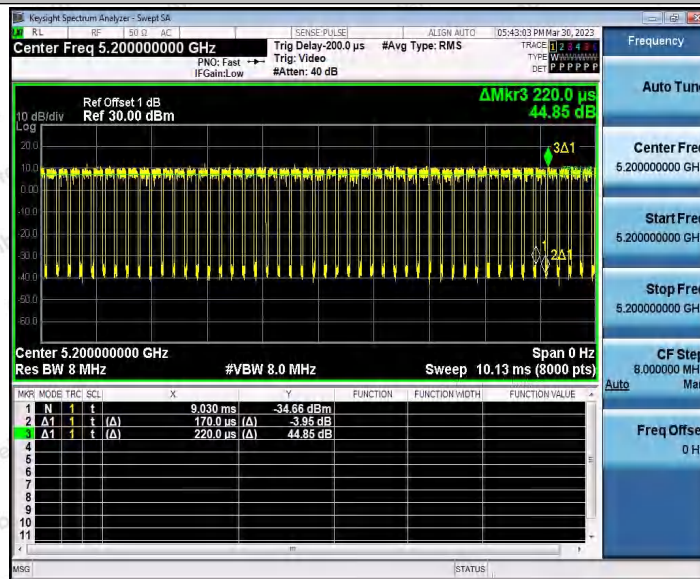
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



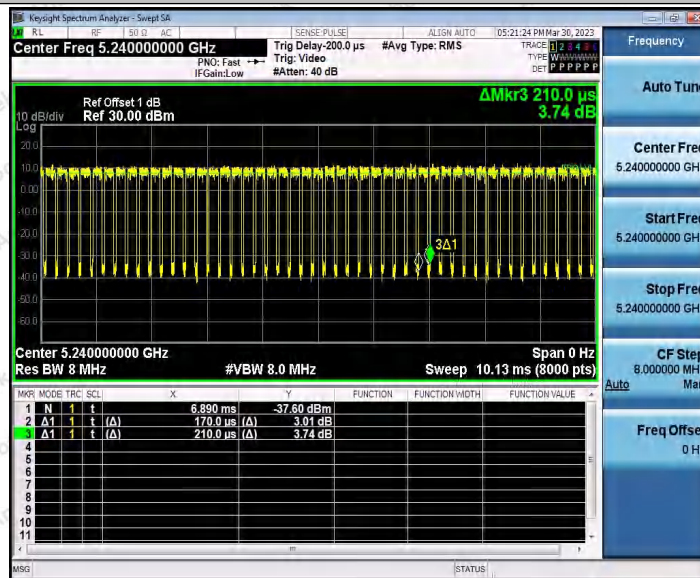
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11AC20SISO_Ant2_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant2_5240

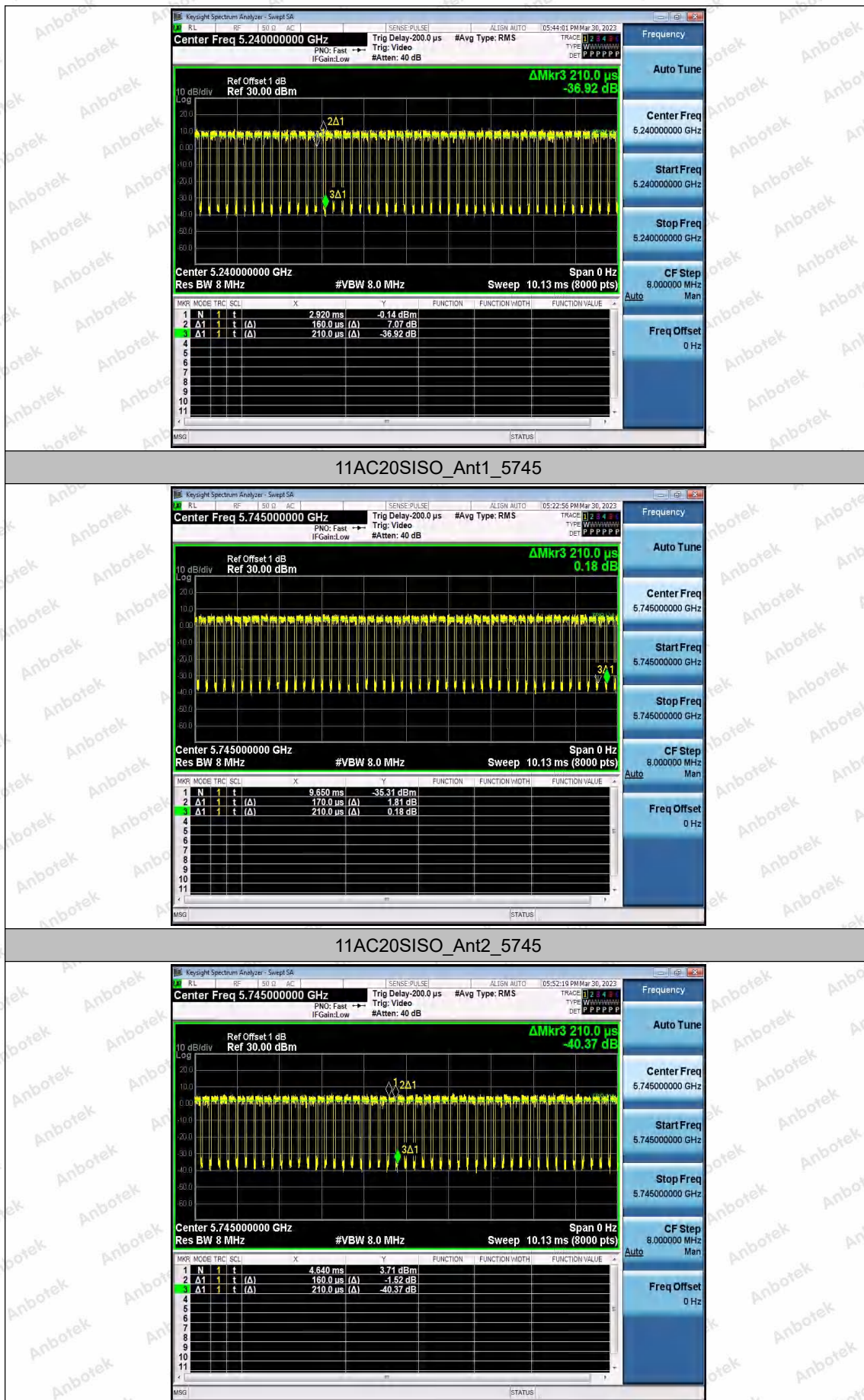
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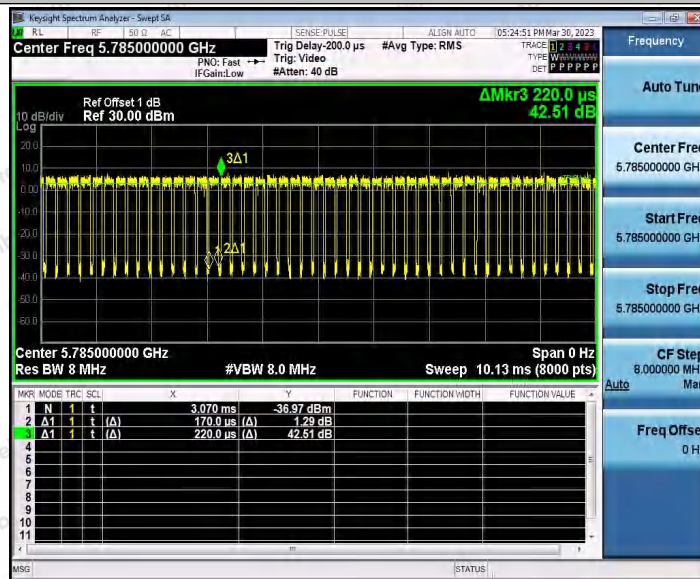
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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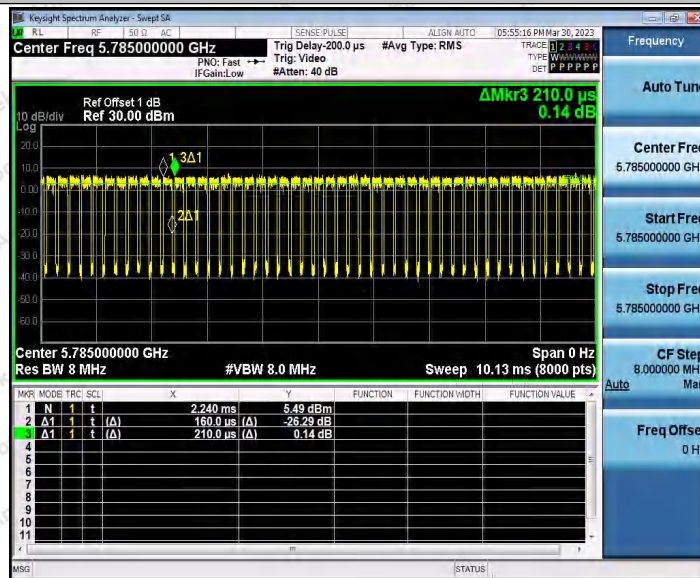
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11AC20SISO_Ant1_5785



11AC20SISO_Ant2_5785



11AC20SISO_Ant1_5825

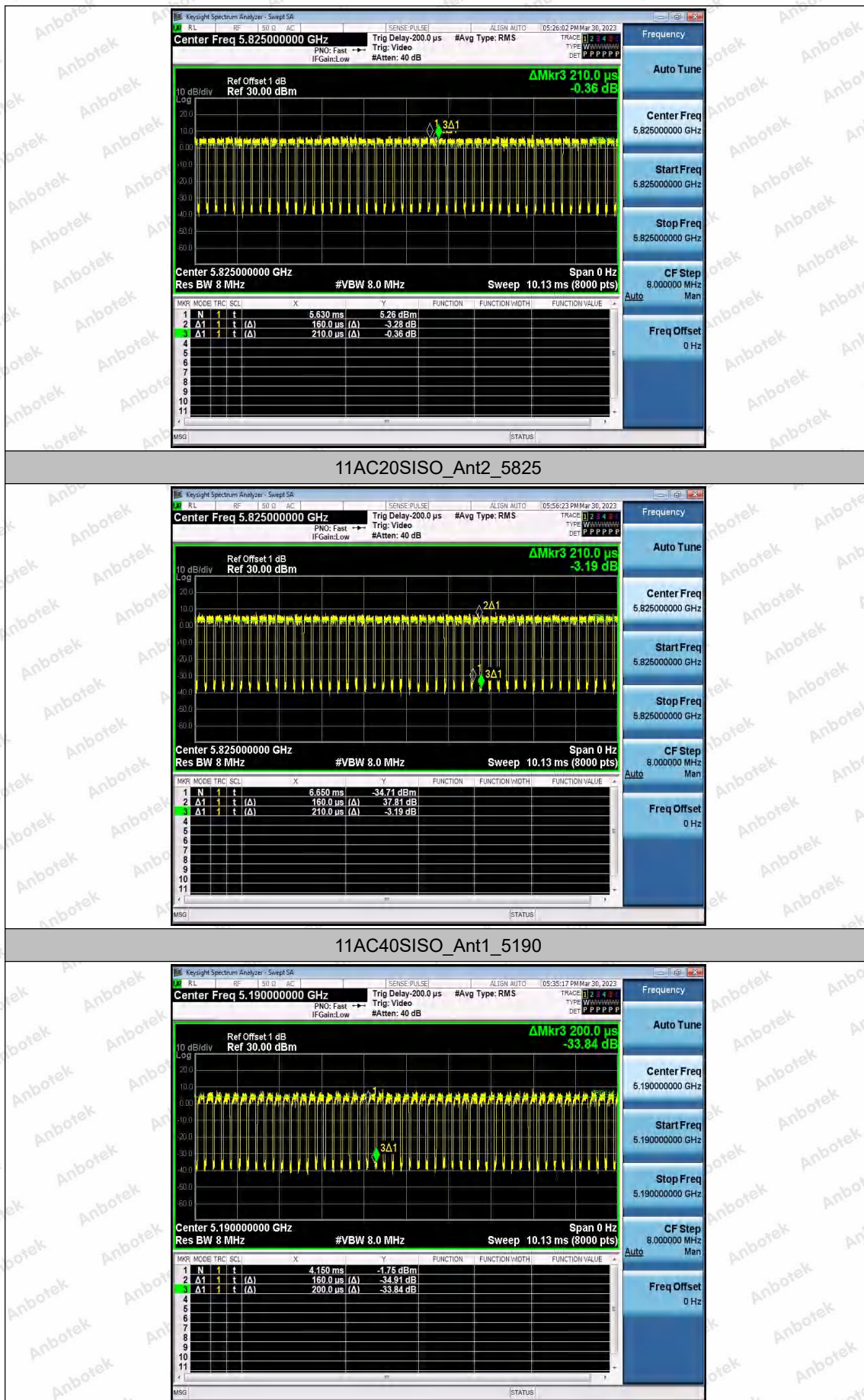
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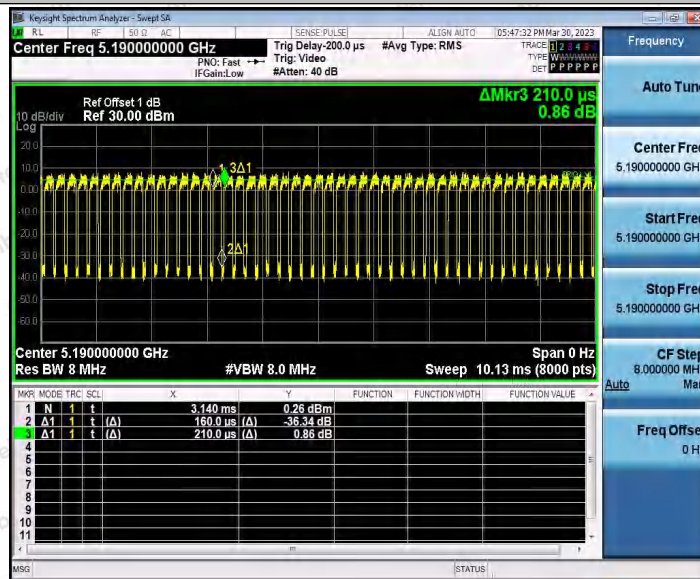
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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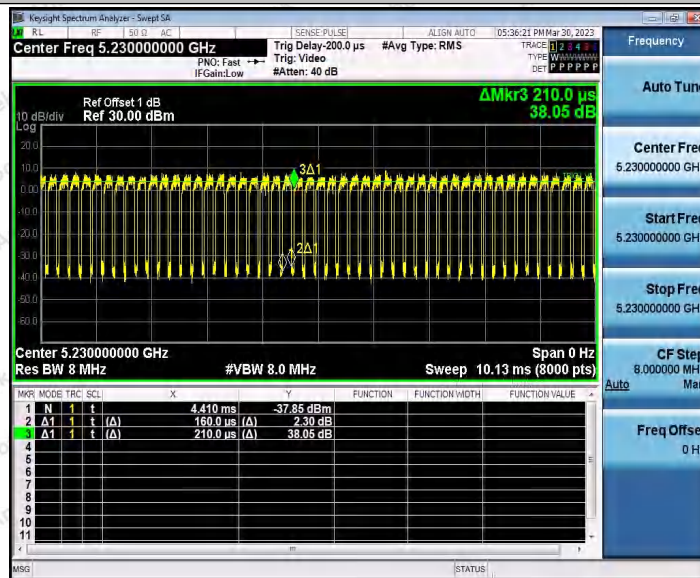
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11AC40SISO_Ant2_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant2_5230

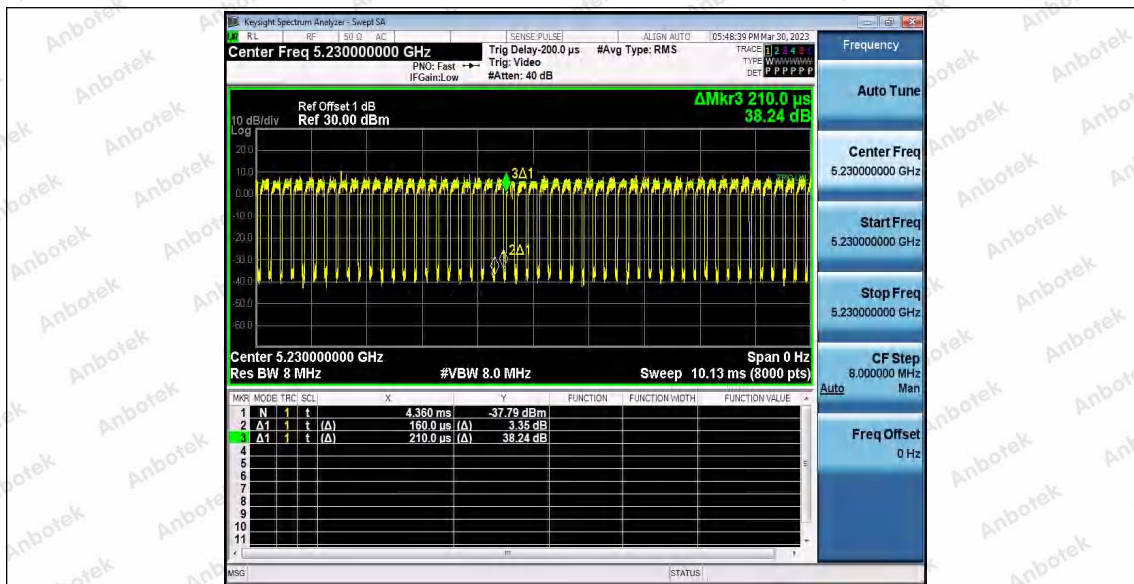
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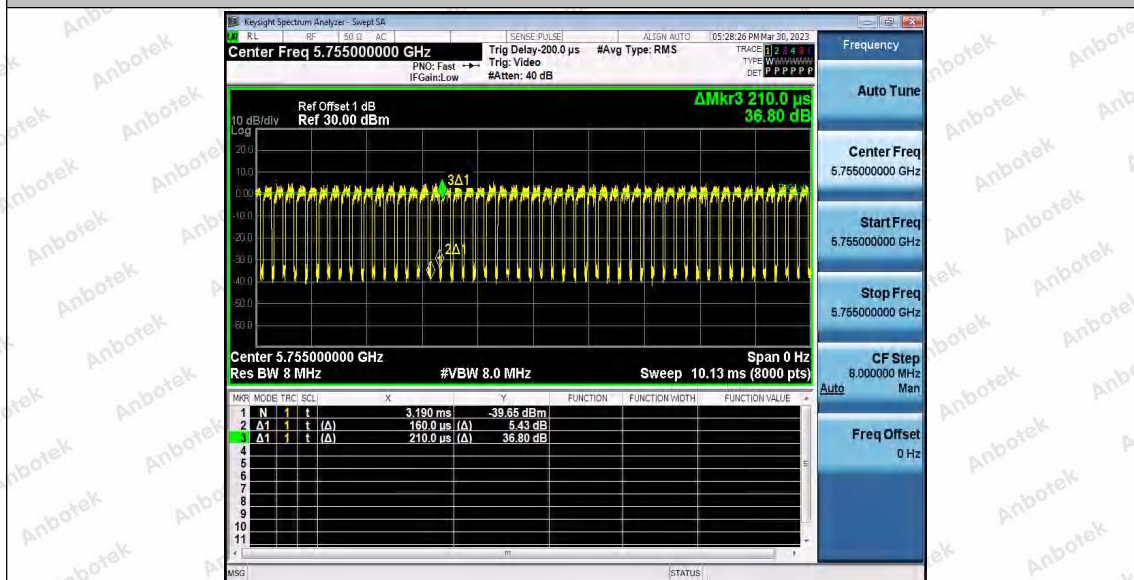


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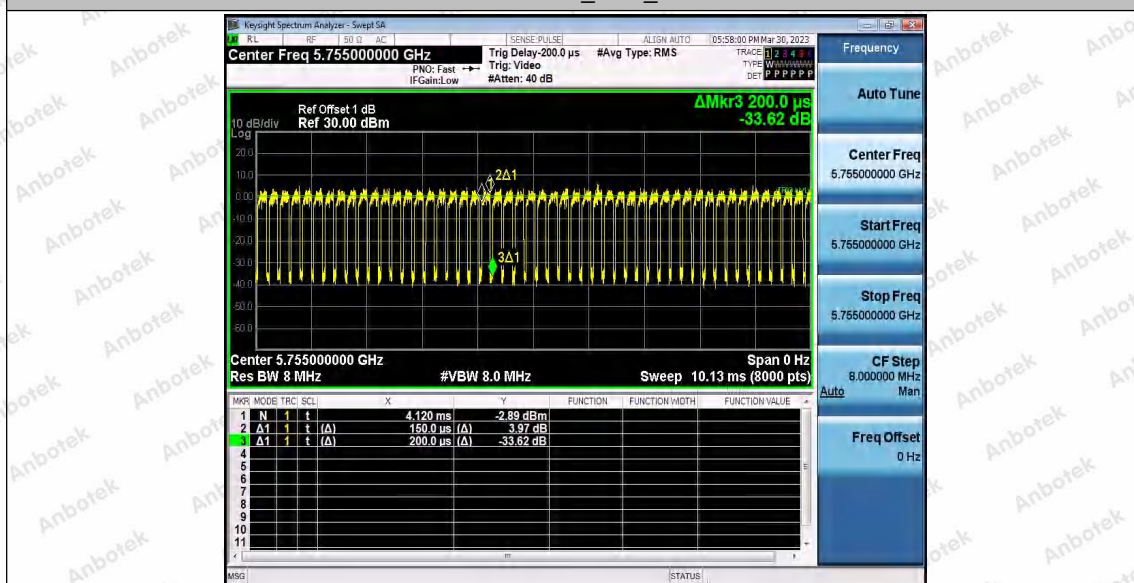




11AC40SISO_Ant1_5755



11AC40SISO_Ant2_5755



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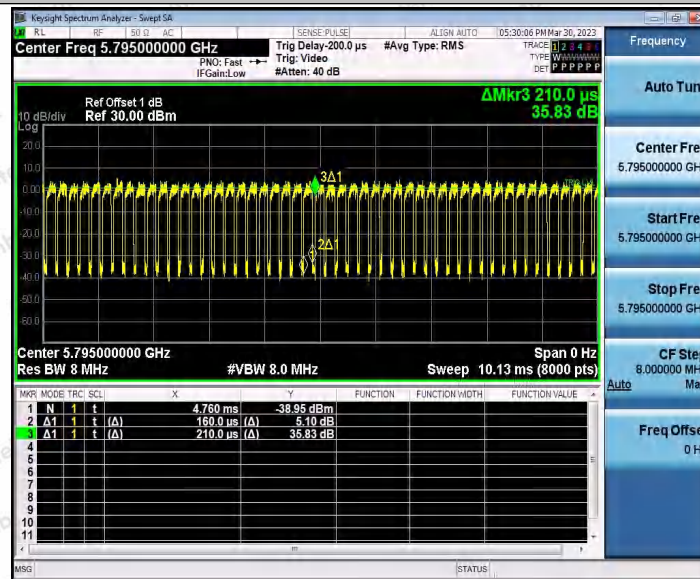
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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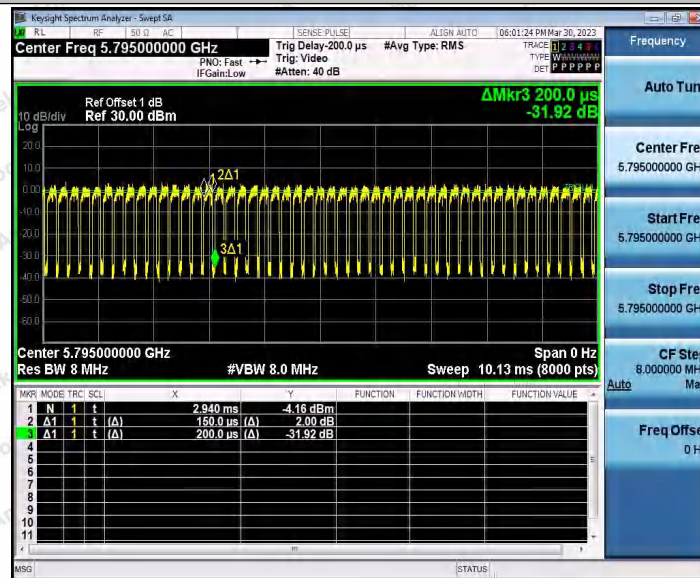
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11AC40SISO_Ant1_5795



11AC40SISO_Ant2_5795



11AC80SISO_Ant1_5210

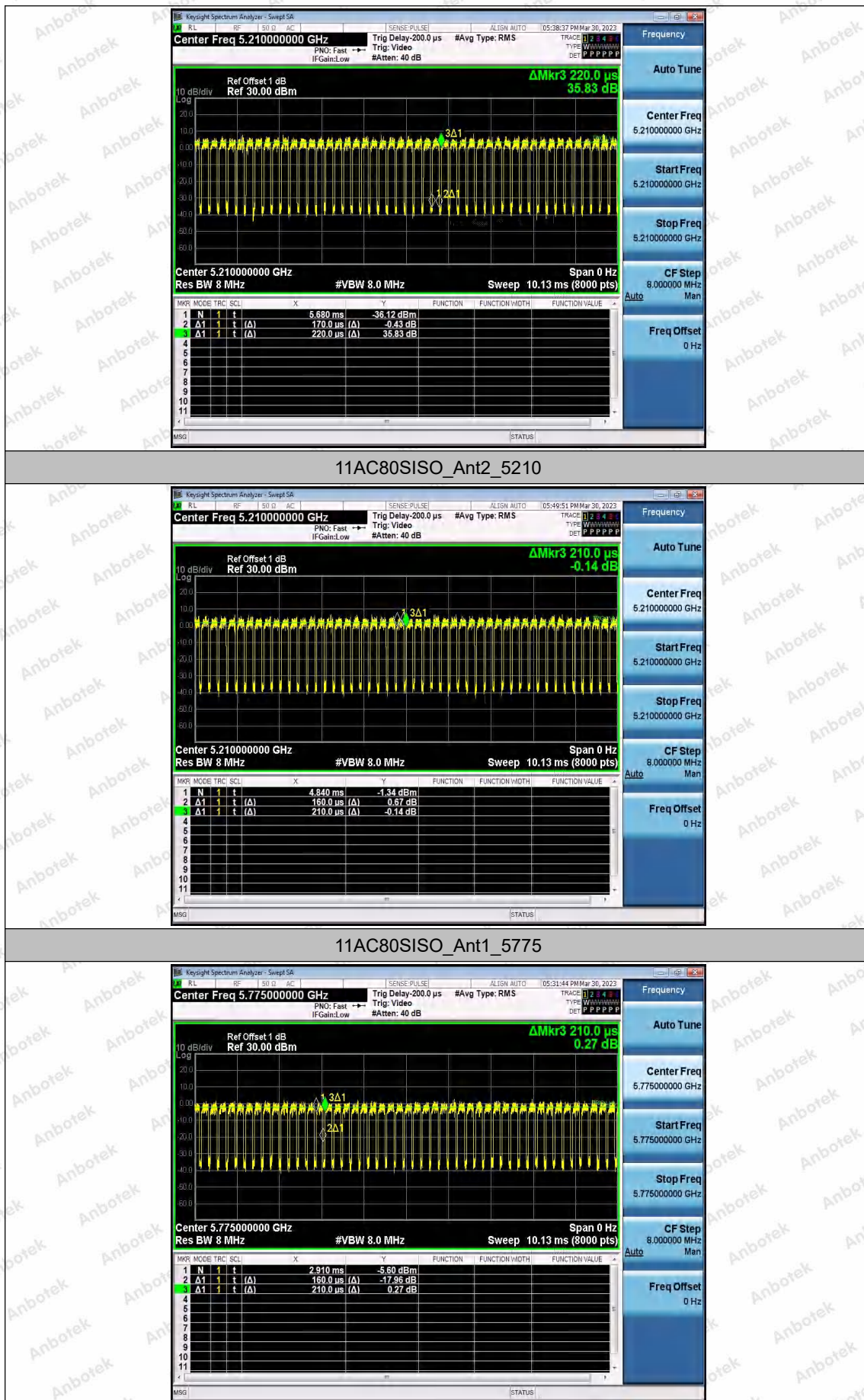
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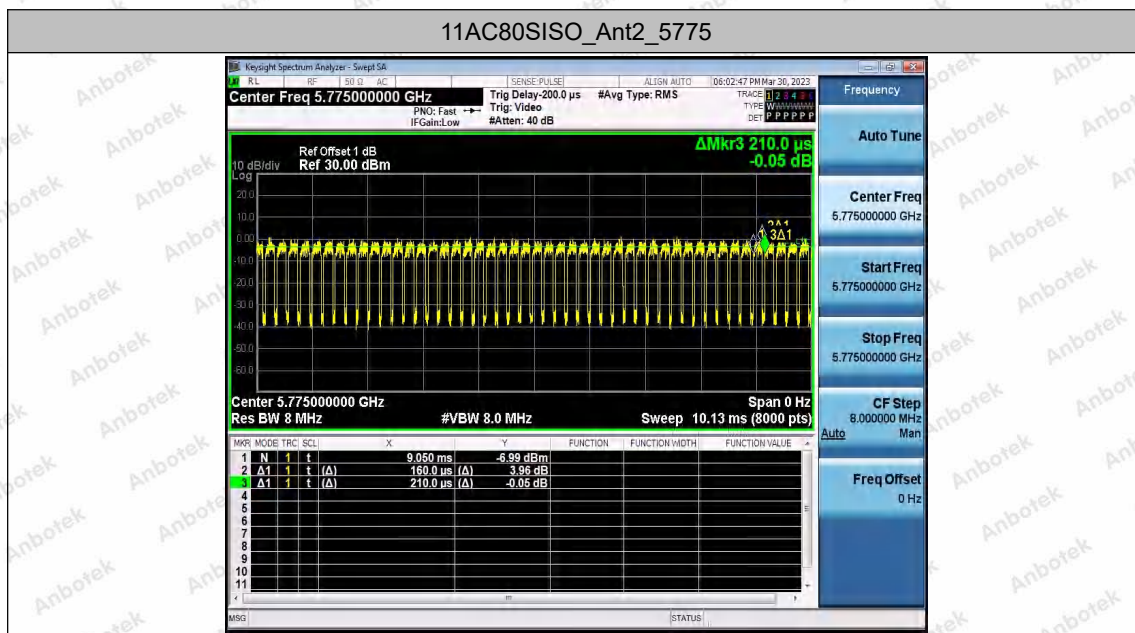
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Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]
11A	Ant1	5180	---	13.37	75.00	1.25	14.62	≤23.98
	Ant2	5180	---	11.39	75.00	1.25	12.64	≤23.98
	Ant1	5200	---	13.32	78.95	1.03	14.35	≤23.98
	Ant2	5200	---	11.53	73.68	1.33	12.86	≤23.98
	Ant1	5240	---	13.25	78.95	1.03	14.28	≤23.98
	Ant2	5240	---	11.39	75.00	1.25	12.64	≤23.98
	Ant1	5745	---	7.11	73.68	1.33	8.44	≤30.00
	Ant2	5745	---	7.56	73.68	1.33	8.89	≤30.00
	Ant1	5785	---	6.89	75.00	1.25	8.14	≤30.00
	Ant2	5785	---	7.57	73.68	1.33	8.90	≤30.00
	Ant1	5825	---	6.77	73.68	1.33	8.10	≤30.00
	Ant2	5825	---	7.53	75.00	1.25	8.78	≤30.00
11N20 SISO	Ant1	5180	---	11.47	77.27	1.12	12.59	≤23.98
	Ant2	5180	---	11.77	81.82	0.87	12.64	≤23.98
	Ant1	5200	---	11.64	78.26	1.06	12.70	≤23.98
	Ant2	5200	---	11.76	78.26	1.06	12.82	≤23.98
	Ant1	5240	---	11.45	77.27	1.12	12.57	≤23.98
	Ant2	5240	---	11.64	77.27	1.12	12.76	≤23.98
	Ant1	5745	---	7.63	77.27	1.12	8.75	≤30.00
	Ant2	5745	---	7.84	77.27	1.12	8.96	≤30.00
	Ant1	5785	---	7.30	77.27	1.12	8.42	≤30.00
	Ant2	5785	---	8.11	77.27	1.12	9.23	≤30.00
	Ant1	5825	---	7.31	81.82	0.87	8.18	≤30.00
	Ant2	5825	---	8.02	78.26	1.06	9.08	≤30.00
11N40 SISO	Ant1	5190	---	12.64	81.82	0.87	13.51	≤23.98
	Ant2	5190	---	11.28	78.26	1.06	12.34	≤23.98
	Ant1	5230	---	12.57	81.82	0.87	13.44	≤23.98
	Ant2	5230	---	11.21	78.26	1.06	12.27	≤23.98
	Ant1	5755	---	7.32	78.26	1.06	8.38	≤30.00
	Ant2	5755	---	8.06	78.26	1.06	9.12	≤30.00
	Ant1	5795	---	7.32	78.26	1.06	8.38	≤30.00
	Ant2	5795	---	8.23	78.26	1.06	9.29	≤30.00
11AC2 OSISO	Ant1	5180	---	11.53	76.19	1.18	12.71	≤23.98
	Ant2	5180	---	11.02	77.27	1.12	12.14	≤23.98
	Ant1	5200	---	11.67	80.95	0.92	12.59	≤23.98

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	Ant2	5200	---	11.03	77.27	1.12	12.15	≤23.98
	Ant1	5240	---	11.44	80.95	0.92	12.36	≤23.98
	Ant2	5240	---	11.05	76.19	1.18	12.23	≤23.98
	Ant1	5745	---	7.58	80.95	0.92	8.50	≤30.00
	Ant2	5745	---	7.22	76.19	1.18	8.40	≤30.00
	Ant1	5785	---	7.36	77.27	1.12	8.48	≤30.00
	Ant2	5785	---	7.32	76.19	1.18	8.50	≤30.00
	Ant1	5825	---	7.27	76.19	1.18	8.45	≤30.00
	Ant2	5825	---	7.27	76.19	1.18	8.45	≤30.00
11AC4 OSISO	Ant1	5190	---	13.39	0	0	13.39	≤23.98
	Ant2	5190	---	13.81	0	0	13.81	≤23.98
	Ant1	5230	---	11.90	76.19	1.18	13.08	≤23.98
	Ant2	5230	---	11.34	76.19	1.18	12.52	≤23.98
	Ant1	5755	---	10.29	0	0	10.29	≤30.00
	Ant2	5755	---	8.38	0	0	8.38	≤30.00
	Ant1	5795	---	7.38	76.19	1.18	8.56	≤30.00
	Ant2	5795	---	5.75	75.00	1.25	7.00	≤30.00
11AC8 OSISO	Ant1	5210	---	12.77	77.27	1.12	13.89	≤23.98
	Ant2	5210	---	11.76	76.19	1.18	12.94	≤23.98
	Ant1	5775	---	7.65	76.19	1.18	8.83	≤30.00
	Ant2	5775	---	7.40	76.19	1.18	8.58	≤30.00

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

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MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]
11N20SISO	Ant1+Ant2	5180	15.63	≤23.98
	Ant1+Ant2	5200	15.77	≤23.98
	Ant1+Ant2	5240	15.68	≤23.98
	Ant1+Ant2	5745	11.87	≤30.00
	Ant1+Ant2	5785	11.85	≤30.00
	Ant1+Ant2	5825	11.66	≤30.00
11N40SISO	Ant1+Ant2	5190	15.97	≤23.98
	Ant1+Ant2	5230	15.90	≤23.98
	Ant1+Ant2	5755	11.78	≤30.00
	Ant1+Ant2	5795	11.87	≤30.00
11AC20SISO	Ant1+Ant2	5180	15.44	≤23.98
	Ant1+Ant2	5200	15.39	≤23.98
	Ant1+Ant2	5240	15.31	≤23.98
	Ant1+Ant2	5745	11.46	≤30.00
	Ant1+Ant2	5785	11.50	≤30.00
	Ant1+Ant2	5825	11.46	≤30.00
11AC40SISO	Ant1+Ant2	5190	16.62	≤23.98
	Ant1+Ant2	5230	15.82	≤23.98
	Ant1+Ant2	5755	12.45	≤30.00
	Ant1+Ant2	5795	10.86	≤30.00
11AC80SISO	Ant1+Ant2	5210	16.45	≤23.98
	Ant1+Ant2	5775	11.72	≤30.00

Note:

$$1. \text{Total (dBm)} = 10 \times \log(10^{(\text{ANT1 power(dBm)/10})} + 10^{(\text{Ant2 power(dBm)/10})} + 10^{(\text{ANT3 power(dBm)/10})})$$

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Appendix D: Maximum power spectral density

Test Result B1

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.74	≤11.00	PASS
	Ant2	5180	3.78	≤11.00	PASS
	Ant1	5200	5.85	≤11.00	PASS
	Ant2	5200	3.45	≤11.00	PASS
	Ant1	5240	5.14	≤11.00	PASS
	Ant2	5240	3.45	≤11.00	PASS
11N20SISO	Ant1	5180	3.18	≤11.00	PASS
	Ant2	5180	3.38	≤11.00	PASS
	Ant1	5200	3.68	≤11.00	PASS
	Ant2	5200	3.91	≤11.00	PASS
	Ant1	5240	3.69	≤11.00	PASS
	Ant2	5240	3.58	≤11.00	PASS
11N40SISO	Ant1	5190	1.92	≤11.00	PASS
	Ant2	5190	-0.11	≤11.00	PASS
	Ant1	5230	1.42	≤11.00	PASS
	Ant2	5230	0.37	≤11.00	PASS
11AC20SISO	Ant1	5180	3.61	≤11.00	PASS
	Ant2	5180	3.12	≤11.00	PASS
	Ant1	5200	3.66	≤11.00	PASS
	Ant2	5200	3.09	≤11.00	PASS
	Ant1	5240	3.75	≤11.00	PASS
	Ant2	5240	2.73	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.7	≤11.00	PASS
	Ant2	5190	0.09	≤11.00	PASS
	Ant1	5230	0.42	≤11.00	PASS
	Ant2	5230	0.02	≤11.00	PASS
11AC80SISO	Ant1	5210	-1.6	≤11.00	PASS
	Ant2	5210	-3	≤11.00	PASS

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



MIMO:

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20SISO	Ant1+Ant2	5180	6.29	≤11.00	PASS
	Ant1+Ant2	5200	6.81	≤11.00	PASS
	Ant1+Ant2	5240	6.65	≤11.00	PASS
11N40SISO	Ant1+Ant2	5190	4.03	≤11.00	PASS
	Ant1+Ant2	5230	3.94	≤11.00	PASS
11AC20SISO	Ant1+Ant2	5180	6.38	≤11.00	PASS
	Ant1+Ant2	5200	6.39	≤11.00	PASS
	Ant1+Ant2	5240	6.28	≤11.00	PASS
11AC40SISO	Ant1+Ant2	5190	2.72	≤11.00	PASS
	Ant1+Ant2	5230	3.23	≤11.00	PASS
11AC80SISO	Ant1+Ant2	5210	0.77	≤11.00	PASS

Note:

$$1. \text{Total (dBm)} = 10 \times \log(10^{(\text{ANT1 power(dBm)}/10)} + 10^{(\text{Ant2 power(dBm)}/10)} + 10^{(\text{ANT3 power(dBm)}/10)})$$

Test Result B4

Test Mode	Antenna	Frequency[MHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-5.56	≤30.00	PASS
	Ant2	5745	-4.5	≤30.00	PASS
	Ant1	5785	-5.59	≤30.00	PASS
	Ant2	5785	-4.98	≤30.00	PASS
	Ant1	5825	-5.29	≤30.00	PASS
	Ant2	5825	-5.28	≤30.00	PASS
11N20SISO	Ant1	5745	-4.72	≤30.00	PASS
	Ant2	5745	-4.83	≤30.00	PASS
	Ant1	5785	-4.68	≤30.00	PASS
	Ant2	5785	-3.92	≤30.00	PASS
	Ant1	5825	-3.91	≤30.00	PASS
	Ant2	5825	-3.91	≤30.00	PASS
11N40SISO	Ant1	5755	-7.38	≤30.00	PASS
	Ant2	5755	-7.15	≤30.00	PASS
	Ant1	5795	-7.37	≤30.00	PASS
	Ant2	5795	-7.31	≤30.00	PASS
11AC20SISO	Ant1	5745	-4.87	≤30.00	PASS
	Ant2	5745	-5.26	≤30.00	PASS
	Ant1	5785	-4.59	≤30.00	PASS
	Ant2	5785	-4.69	≤30.00	PASS

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	Ant1	5825	-4.94	≤30.00	PASS
	Ant2	5825	-4.4	≤30.00	PASS
11AC40SISO	Ant1	5755	-7.44	≤30.00	PASS
	Ant2	5755	-9.85	≤30.00	PASS
	Ant1	5795	-7.41	≤30.00	PASS
	Ant2	5795	-9.83	≤30.00	PASS
11AC80SISO	Ant1	5775	-10.72	≤30.00	PASS
	Ant2	5775	-10.76	≤30.00	PASS

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

MIMO:

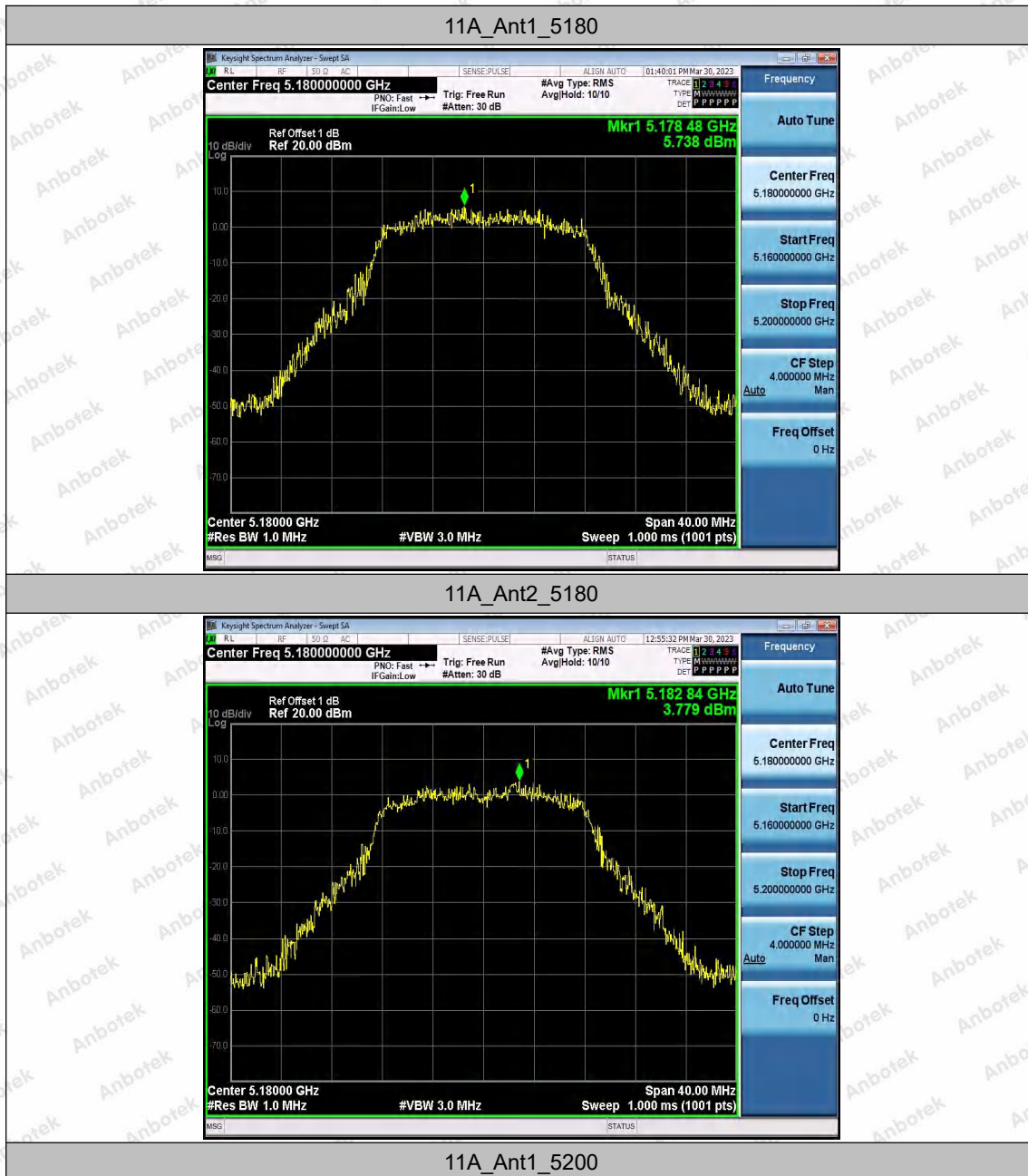
Test Mode	Antenna	Frequency[MHz]	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11N20SISO	Ant1+Ant2	5745	-1.76	≤30.00	PASS
	Ant1+Ant2	5785	-1.27	≤30.00	PASS
	Ant1+Ant2	5825	-0.90	≤30.00	PASS
11N40SISO	Ant1+Ant2	5755	-4.25	≤30.00	PASS
	Ant1+Ant2	5795	-4.33	≤30.00	PASS
11AC20SISO	Ant1+Ant2	5745	-2.05	≤30.00	PASS
	Ant1+Ant2	5785	-1.63	≤30.00	PASS
	Ant1+Ant2	5825	-1.65	≤30.00	PASS
11AC40SISO	Ant1+Ant2	5755	-5.47	≤30.00	PASS
	Ant1+Ant2	5795	-5.44	≤30.00	PASS
11AC80SISO	Ant1+Ant2	5775	-7.73	≤30.00	PASS

Note:

$$1. \text{Total (dBm)} = 10 \times \log(10^{(\text{ANT1 power(dBm)/10})} + 10^{(\text{Ant2 power(dBm)/10})} + 10^{(\text{ANT3 power(dBm)/10})})$$



Test Graphs B1



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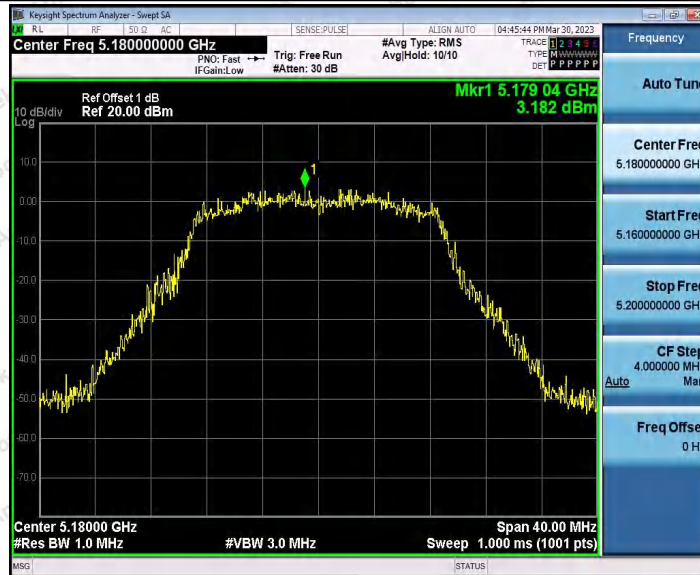
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11A_Ant2_5240



11N20SISO_Ant1_5180



11N20SISO_Ant2_5180

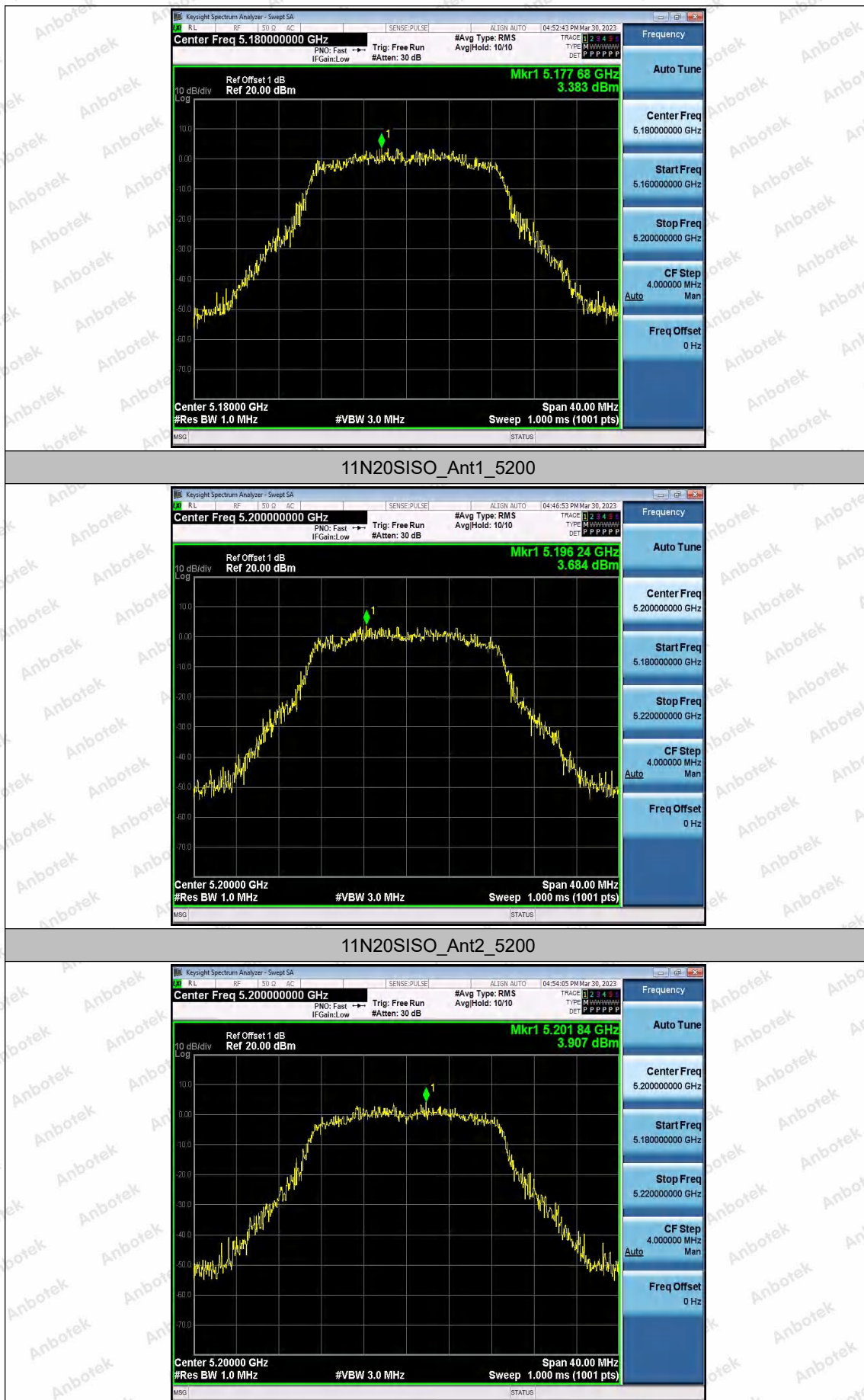
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11N20SISO_Ant1_5240



11N20SISO_Ant2_5240



11N40SISO_Ant1_5190

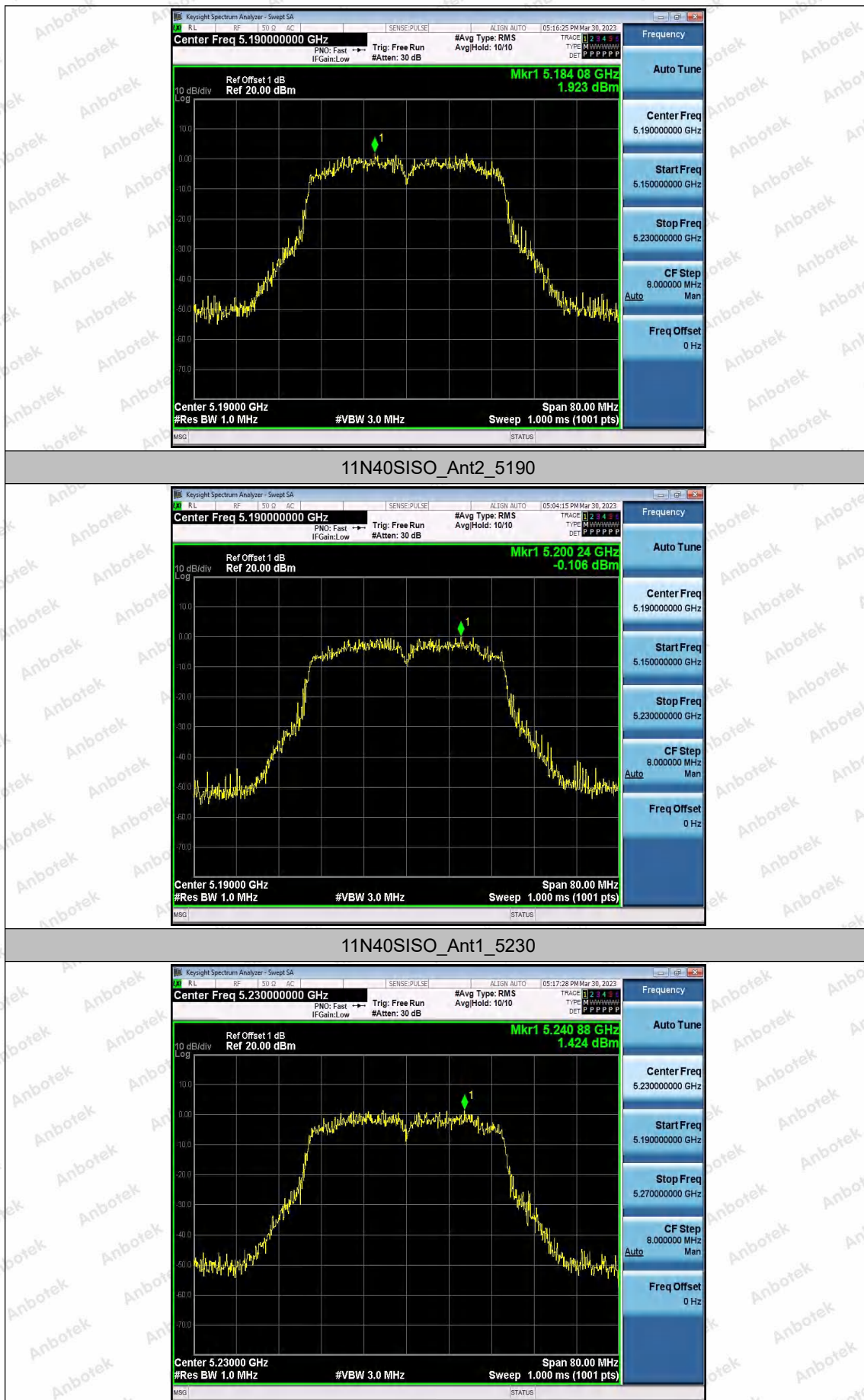
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