

Appendix Test Data

Report No.:	18220WC20286103	Test Sample No.:	1-2-2
Start Test Date:	2022.12.15	Finish Test Date:	2022.12.24
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	17 %
Pressure:	1012 hPa		

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.920	5169.640	5190.560	---	---
		5200	20.920	5189.600	5210.520	---	---
		5240	21.040	5229.520	5250.560	---	---
		5745	21.000	5734.560	5755.560	---	---
		5785	20.920	5774.600	5795.520	---	---
		5825	20.960	5814.560	5835.520	---	---
11N20SISO	Ant1	5180	21.280	5169.400	5190.680	---	---
		5200	21.200	5189.440	5210.640	---	---
		5240	21.200	5229.440	5250.640	---	---
		5745	21.280	5734.440	5755.720	---	---
		5785	21.360	5774.520	5795.880	---	---
		5825	21.280	5814.360	5835.640	---	---
11N40SISO	Ant1	5190	39.440	5170.400	5209.840	---	---
		5230	39.280	5210.560	5249.840	---	---
		5755	39.520	5735.400	5774.920	---	---
		5795	39.600	5775.320	5814.920	---	---
11AC20SISO	Ant1	5180	21.480	5169.280	5190.760	---	---
		5200	21.360	5189.320	5210.680	---	---
		5240	21.200	5229.320	5250.520	---	---
		5745	21.320	5734.320	5755.640	---	---
		5785	21.080	5774.480	5795.560	---	---
		5825	21.320	5814.320	5835.640	---	---
11AC40SISO	Ant1	5190	40.240	5169.760	5210.000	---	---

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		5230	40.240	5209.840	5250.080	---	---
		5755	39.600	5735.240	5774.840	---	---
		5795	40.000	5775.240	5815.240	---	---
11AC80SISO	Ant1	5210	80.960	5169.840	5250.800	---	---
		5775	80.960	5735.000	5815.960	---	---

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Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240

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11A_Ant1_5745



11A_Ant1_5785



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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

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11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190

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11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

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Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.887	5171.6401	5188.5271	---	---
		5200	16.894	5191.6297	5208.5237	---	---
		5240	16.894	5231.6244	5248.5184	---	---
		5745	16.925	5736.6357	5753.5607	---	---
		5785	16.915	5776.6436	5793.5586	---	---
		5825	16.913	5816.6350	5833.5480	---	---
11N20SISO	Ant1	5180	18.257	5170.9250	5189.1820	---	---
		5200	18.209	5190.9557	5209.1647	---	---
		5240	18.227	5230.9405	5249.1675	---	---
		5745	18.230	5735.9513	5754.1813	---	---
		5785	18.227	5775.9594	5794.1864	---	---
		5825	18.167	5815.9693	5834.1363	---	---
11N40SISO	Ant1	5190	36.536	5171.8204	5208.3564	---	---
		5230	36.556	5211.7974	5248.3534	---	---
		5755	36.585	5736.8017	5773.3867	---	---
		5795	36.529	5776.8631	5813.3921	---	---
11AC20SISO	Ant1	5180	18.286	5170.8466	5189.1326	---	---
		5200	18.306	5190.8490	5209.1550	---	---
		5240	18.280	5230.8366	5249.1166	---	---
		5745	18.348	5735.8378	5754.1858	---	---
		5785	18.308	5775.8686	5794.1766	---	---
		5825	18.331	5815.8290	5834.1600	---	---
11AC40SISO	Ant1	5190	36.832	5171.6006	5208.4326	---	---
		5230	36.784	5211.5719	5248.3559	---	---
		5755	36.878	5736.5995	5773.4775	---	---
		5795	36.840	5776.6409	5813.4809	---	---
11AC80SISO	Ant1	5210	75.784	5172.3240	5248.1080	---	---
		5775	75.978	5737.2861	5813.2641	---	---



Test Graphs



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11A_Ant1_5745



11A_Ant1_5785



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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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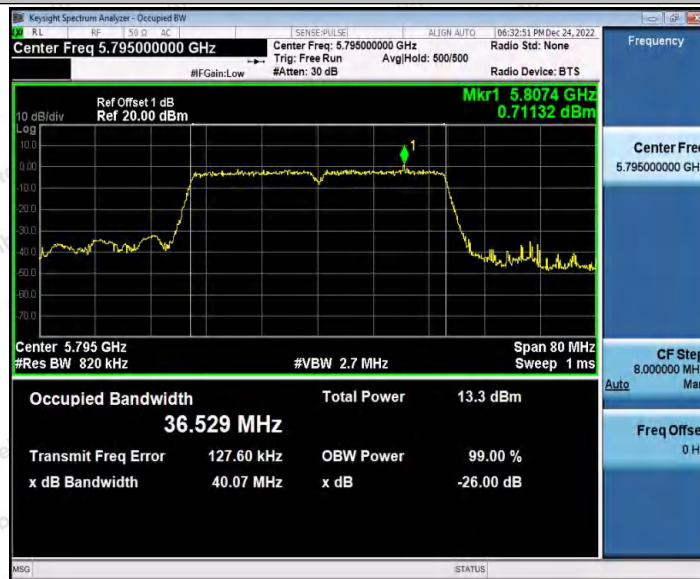
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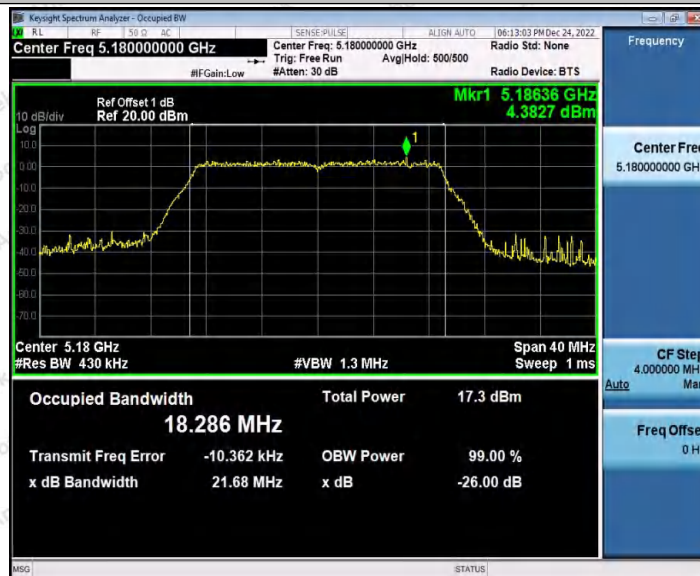
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

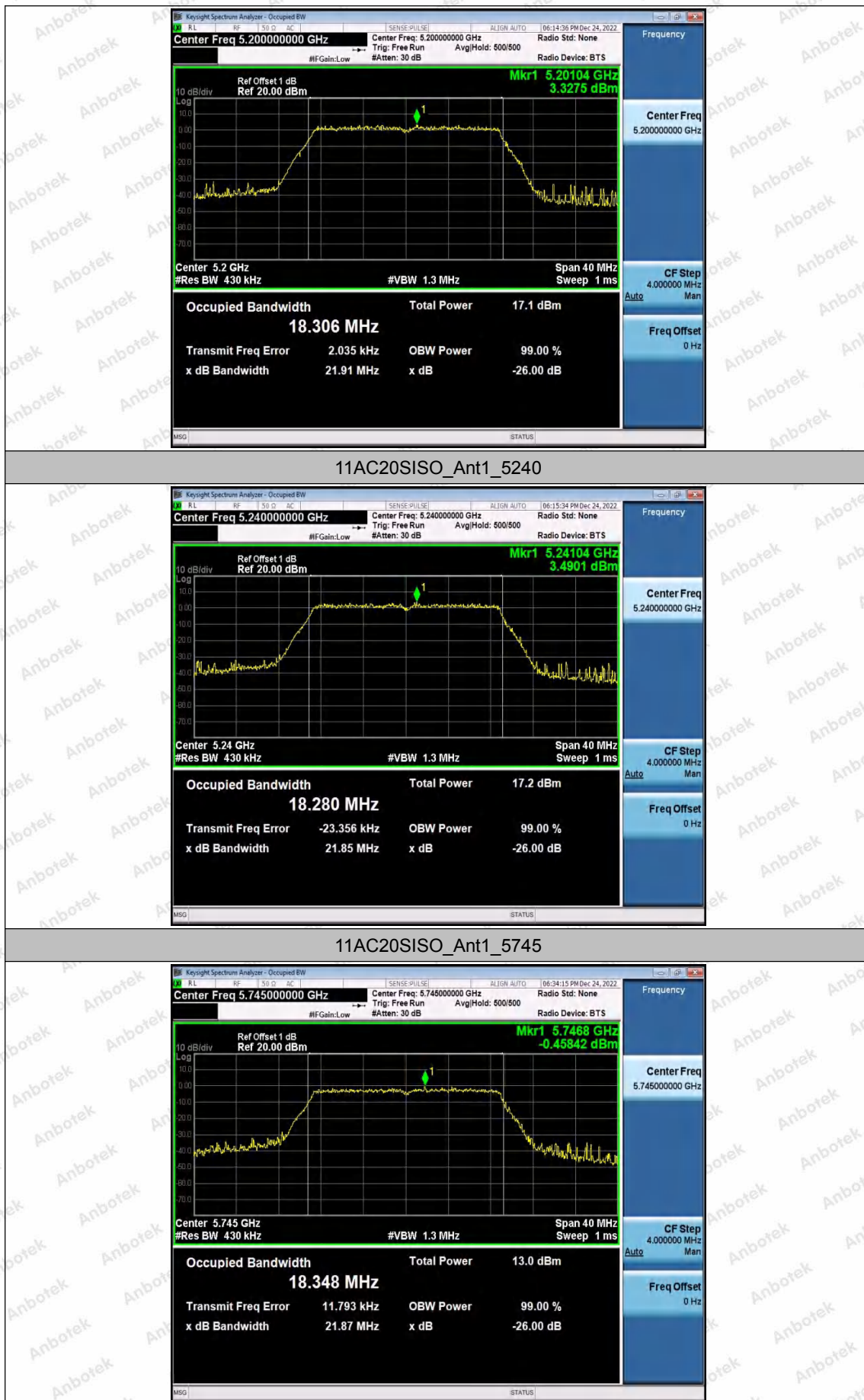
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190

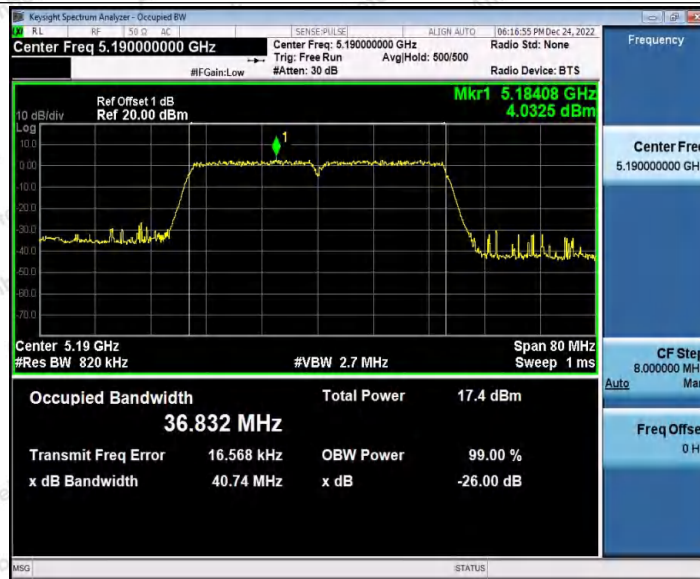
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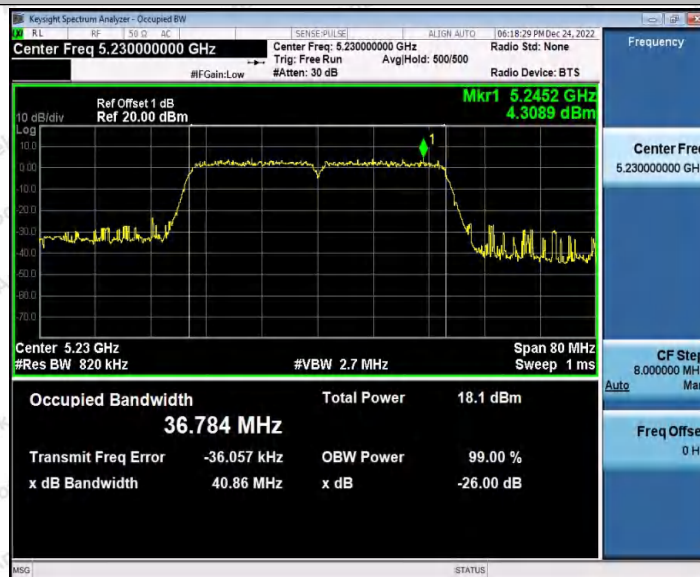


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11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

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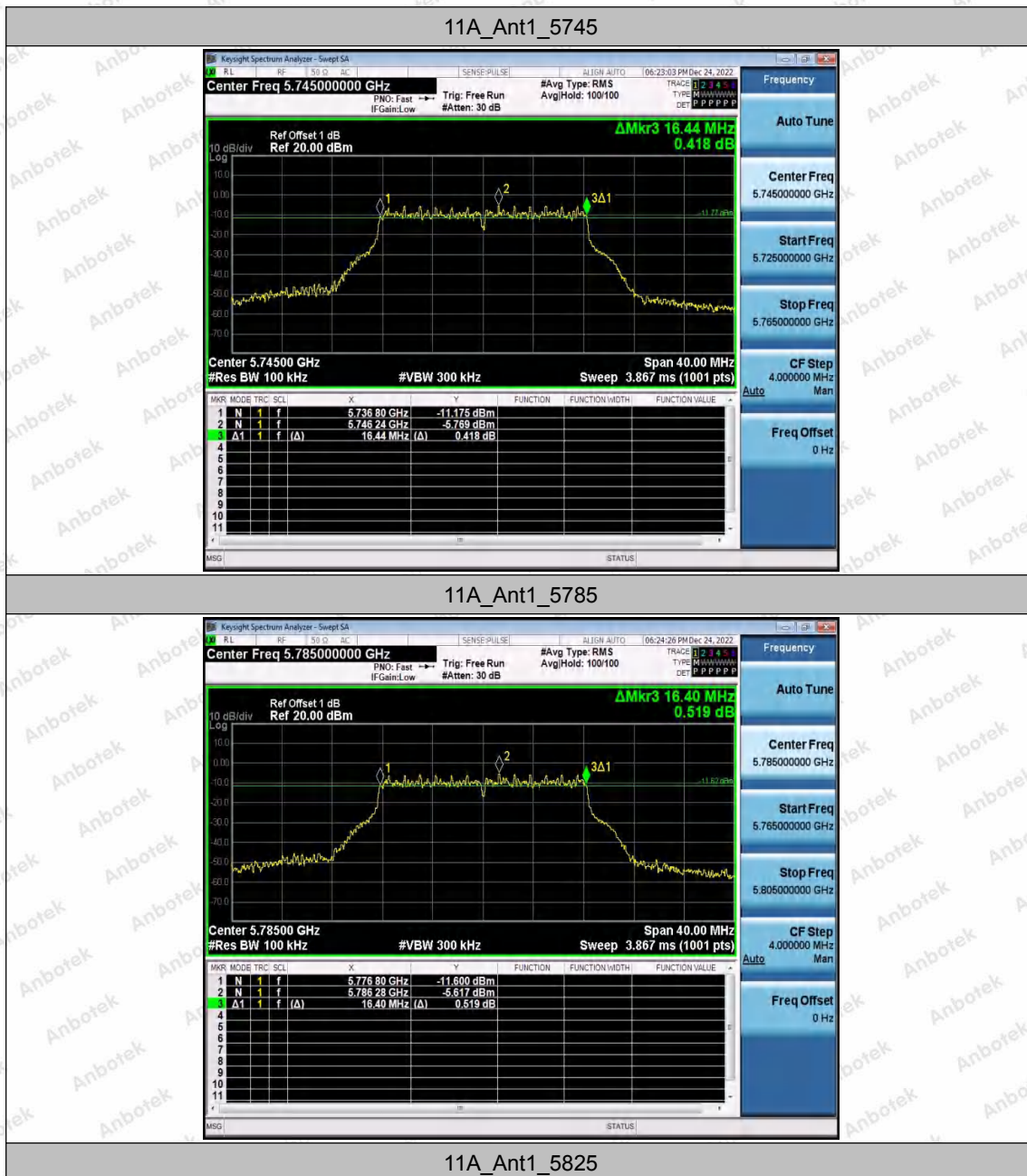
Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.440	5736.800	5753.240	0.5	PASS
		5785	16.400	5776.800	5793.200	0.5	PASS
		5825	16.400	5816.800	5833.200	0.5	PASS
11N20SISO	Ant1	5745	17.680	5736.160	5753.840	0.5	PASS
		5785	17.600	5776.240	5793.840	0.5	PASS
		5825	17.640	5816.160	5833.800	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.400	5776.840	5813.240	0.5	PASS
11AC20SISO	Ant1	5745	17.640	5736.200	5753.840	0.5	PASS
		5785	17.640	5776.200	5793.840	0.5	PASS
		5825	17.600	5816.240	5833.840	0.5	PASS
11AC40SISO	Ant1	5755	36.400	5736.840	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC80SISO	Ant1	5775	75.360	5737.240	5812.600	0.5	PASS



Test Graphs B4



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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



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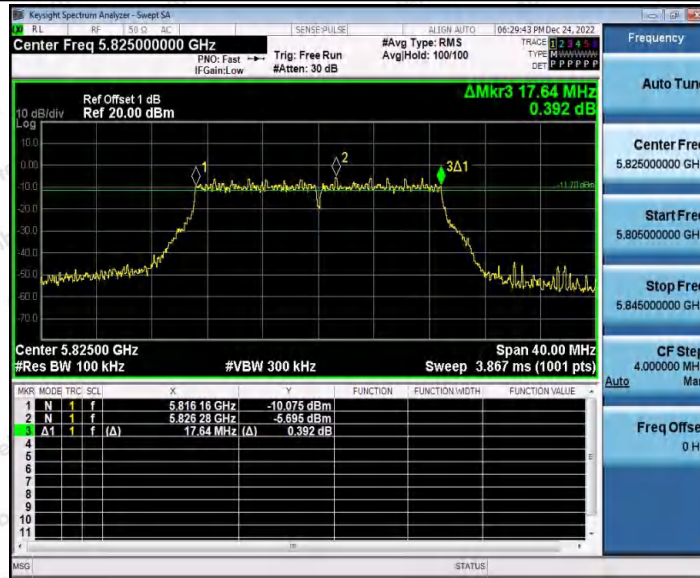
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

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11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



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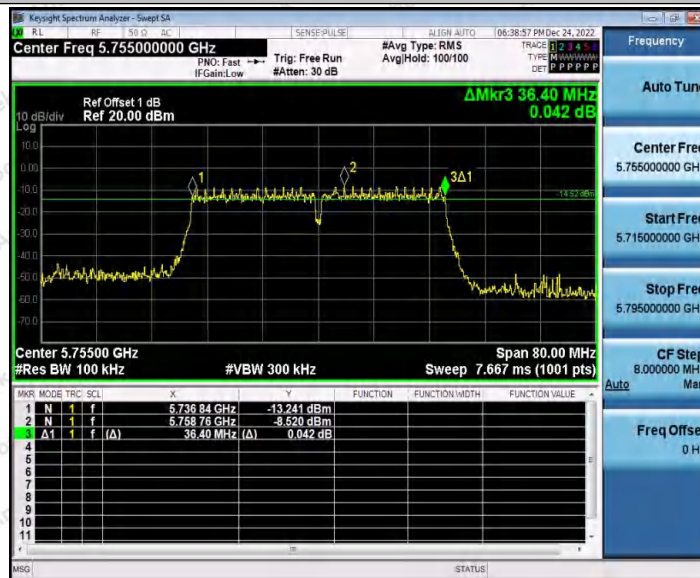
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11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

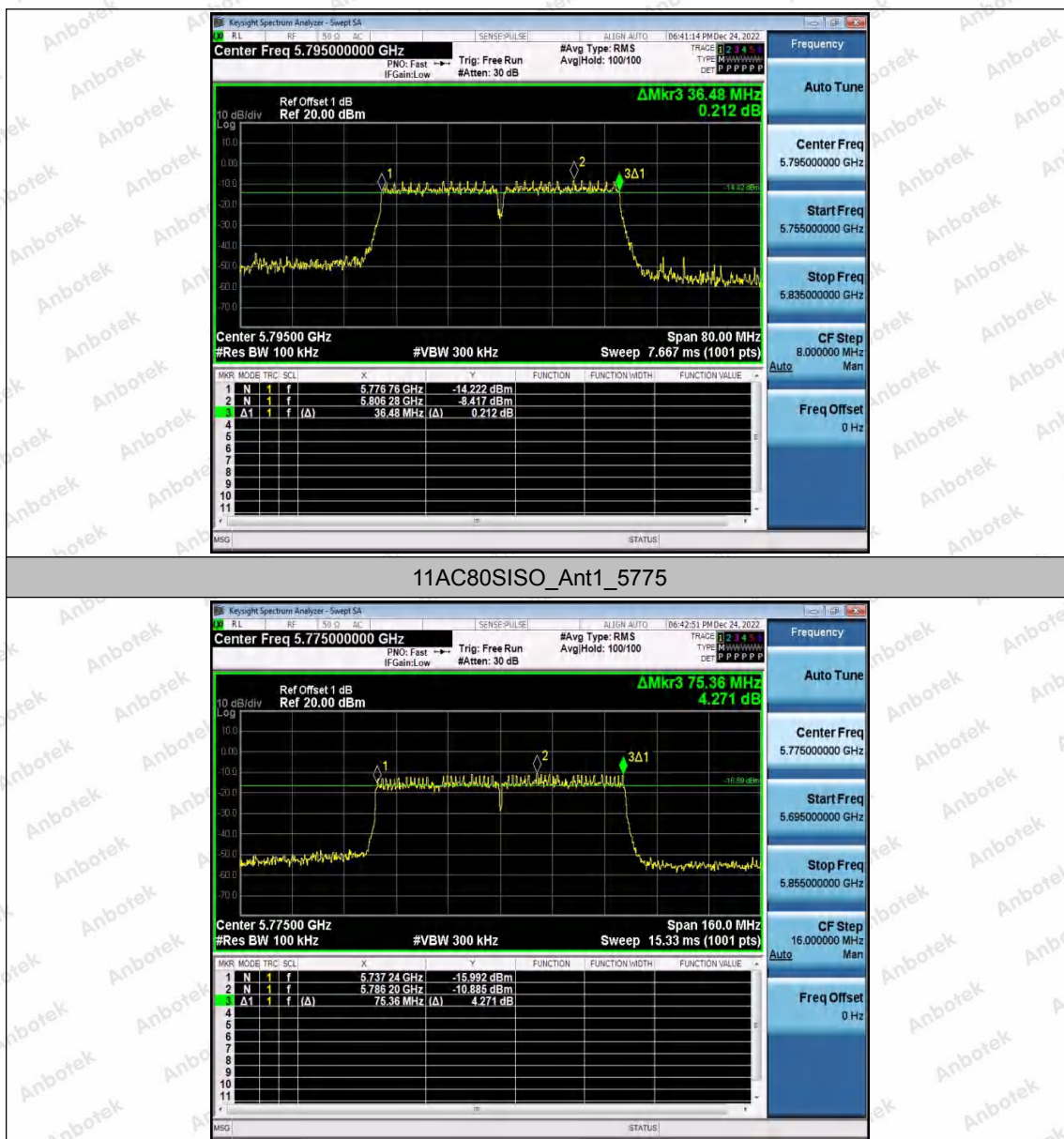
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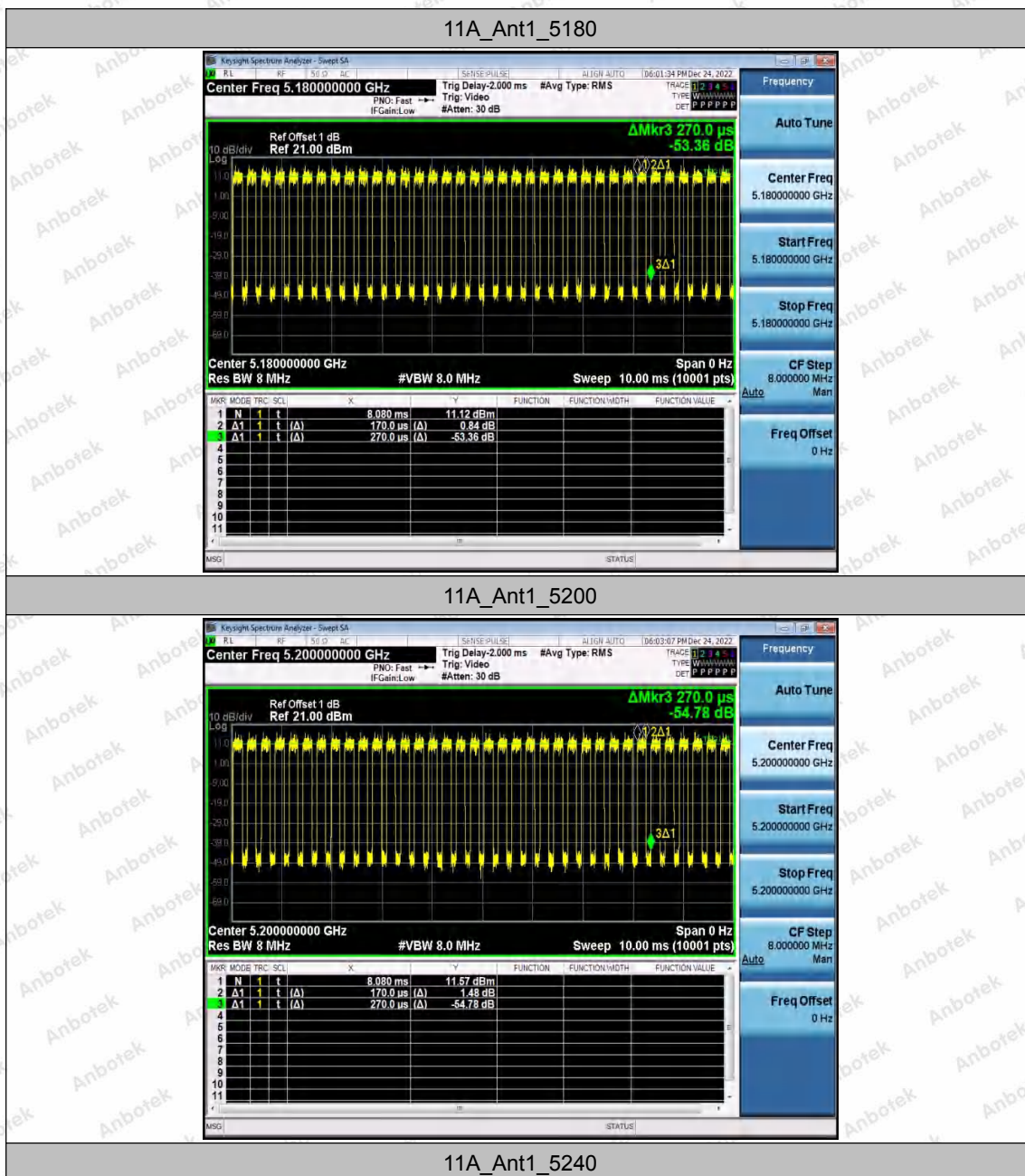
Appendix B: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.17	0.27	62.96
		5200	0.17	0.27	62.96
		5240	0.18	0.28	64.29
		5745	0.17	0.27	62.96
		5785	0.18	0.28	64.29
		5825	0.17	0.27	62.96
11N20SISO	Ant1	5180	0.16	0.26	61.54
		5200	0.17	0.27	62.96
		5240	0.17	0.27	62.96
		5745	0.17	0.27	62.96
		5785	0.17	0.27	62.96
		5825	0.16	0.26	61.54
11N40SISO	Ant1	5190	0.10	0.20	50.00
		5230	0.10	0.20	50.00
		5755	0.10	0.21	47.62
		5795	0.10	0.20	50.00
11AC20SISO	Ant1	5180	0.14	0.25	56.00
		5200	0.14	0.24	58.33
		5240	0.14	0.25	56.00
		5745	0.15	0.25	60.00
		5785	0.15	0.25	60.00
		5825	0.15	0.25	60.00
11AC40SISO	Ant1	5190	0.09	0.19	47.37
		5230	0.08	0.18	44.44
		5755	0.09	0.19	47.37
		5795	0.09	0.19	47.37
11AC80SISO	Ant1	5210	0.06	0.17	35.29
		5775	0.07	0.17	41.18



Test Graphs



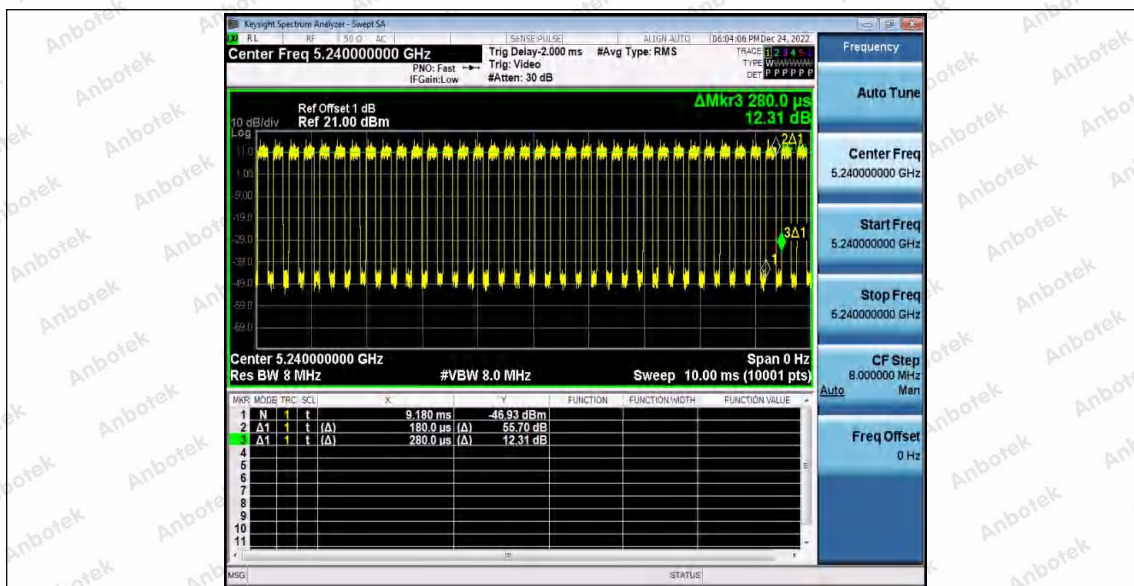
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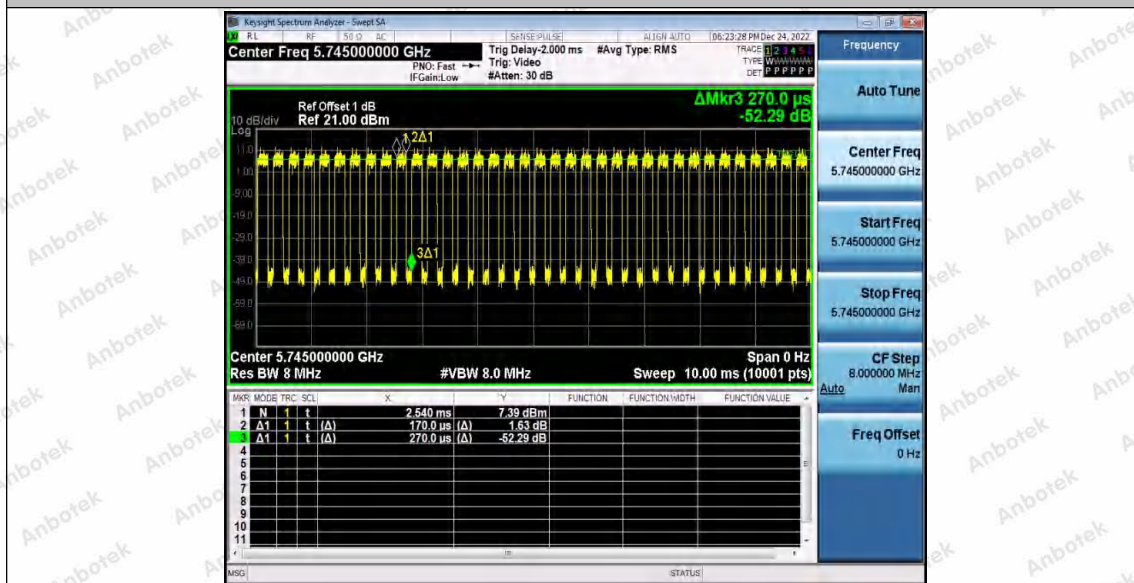


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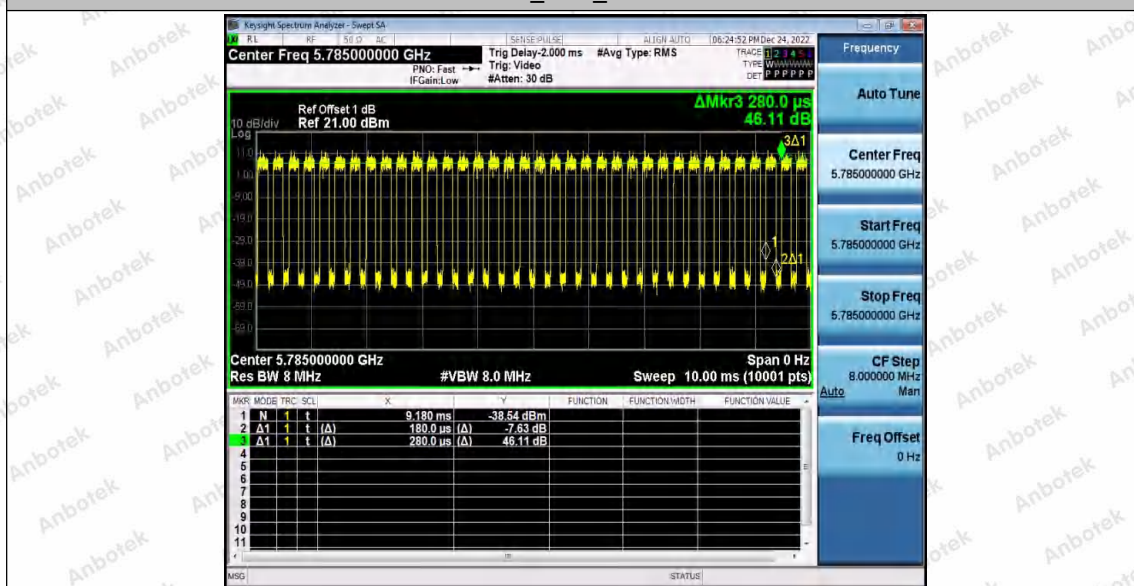




11A_Ant1_5745



11A_Ant1_5785



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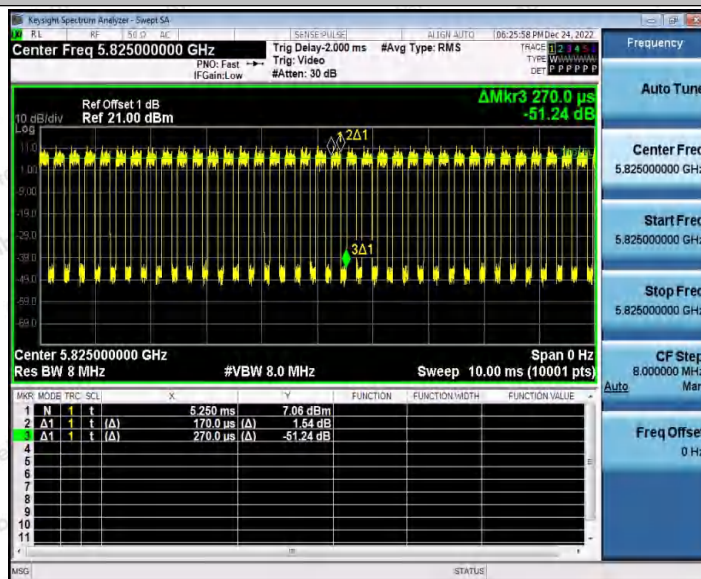
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



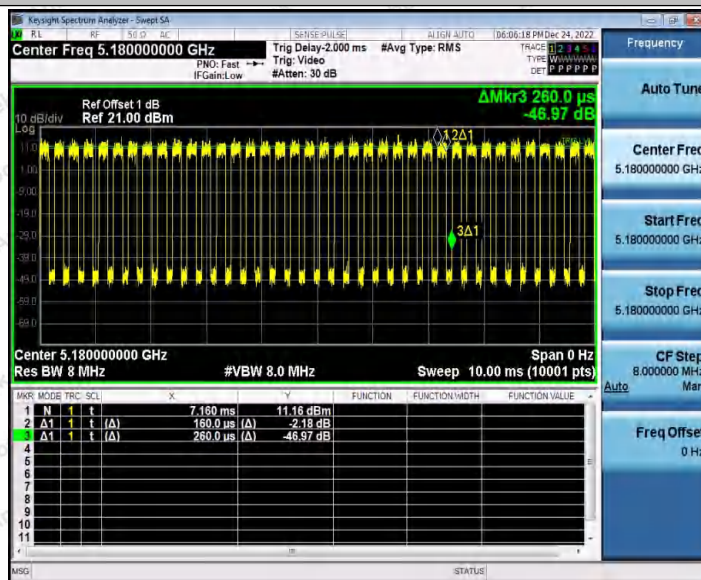
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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

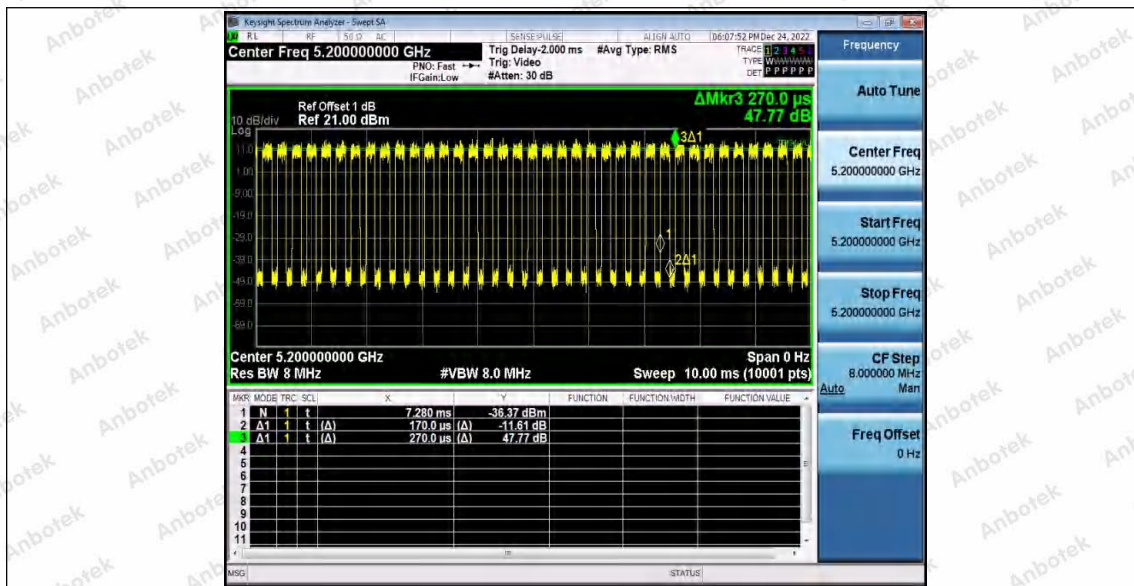
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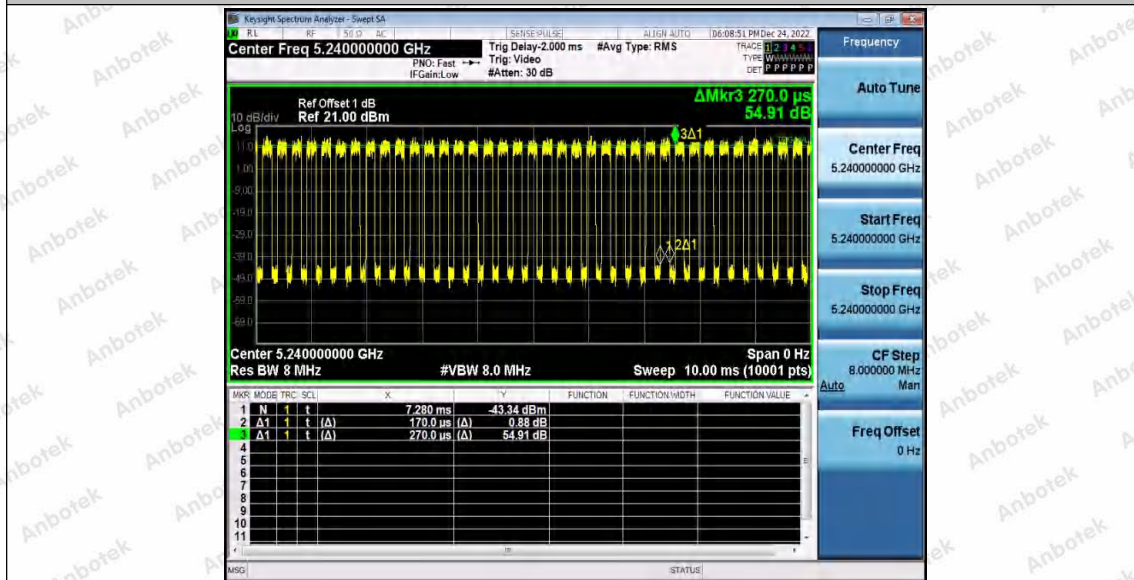


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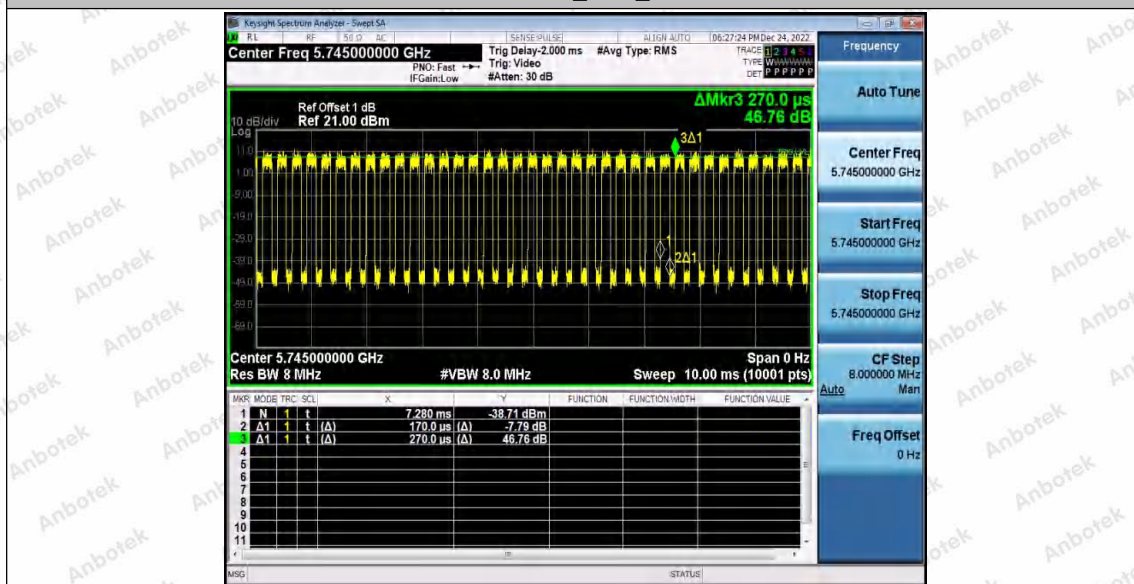




11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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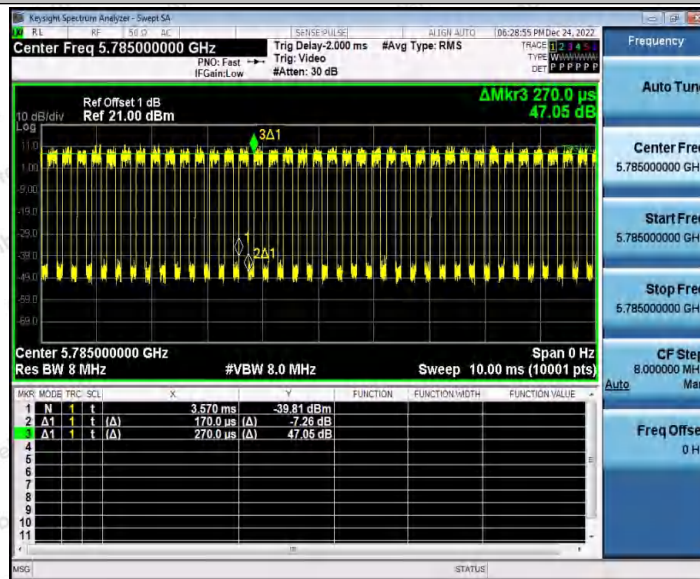
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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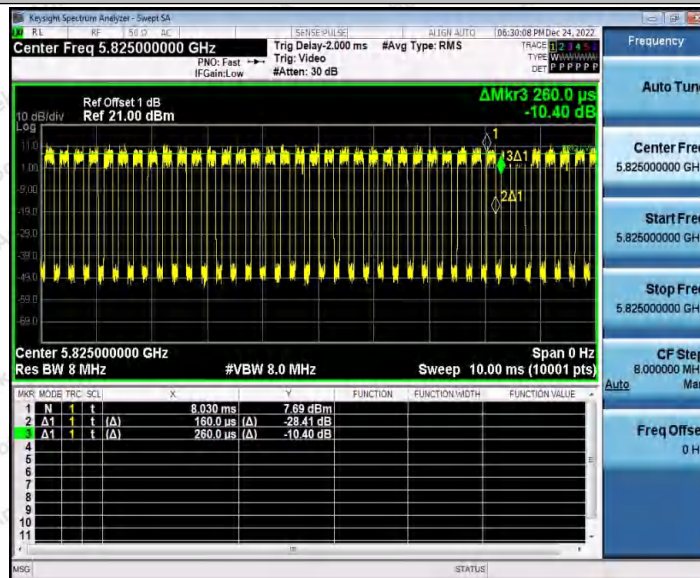
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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

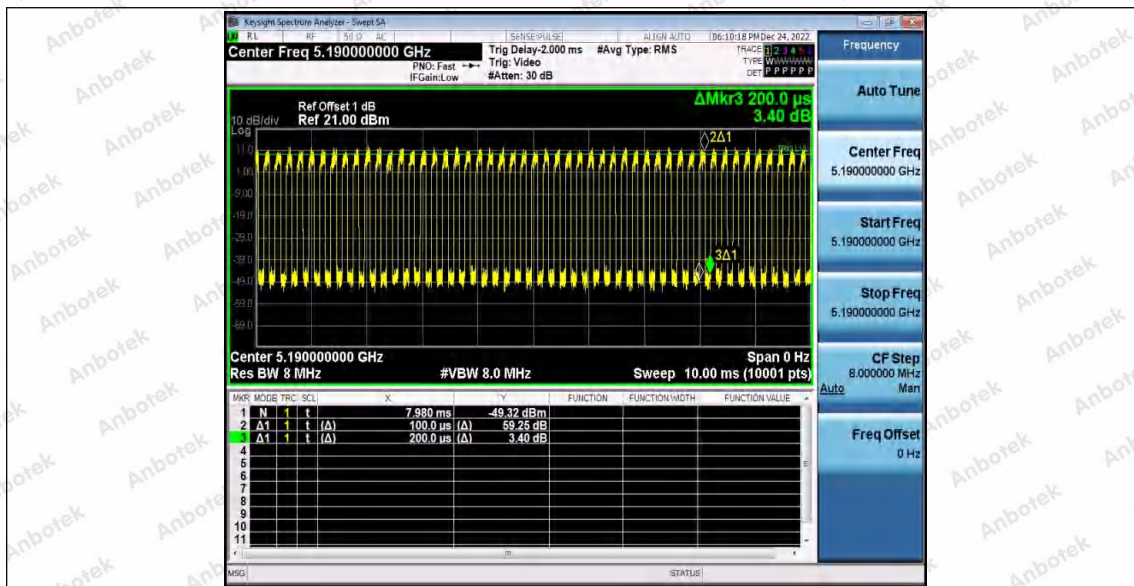
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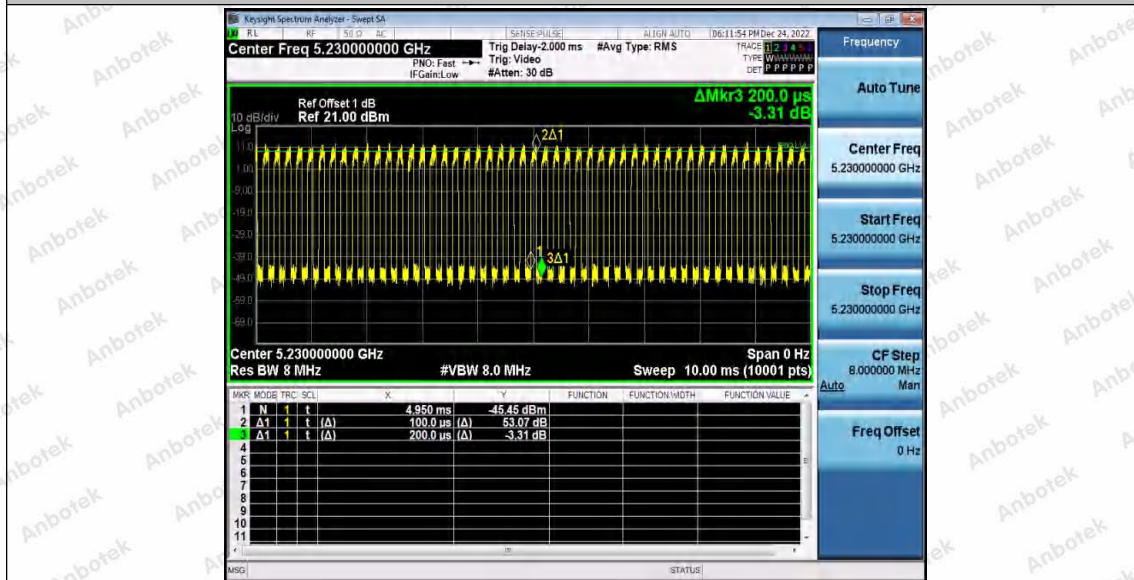


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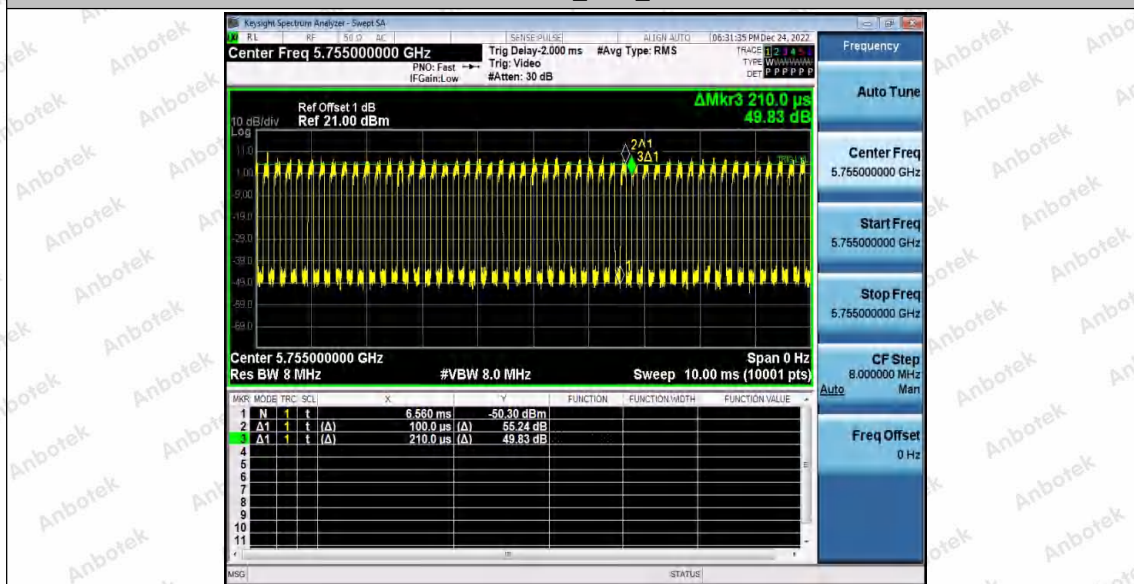




11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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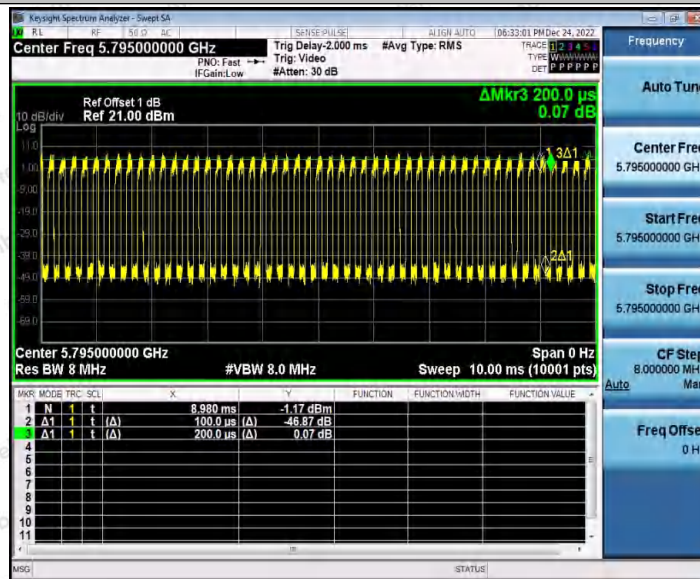
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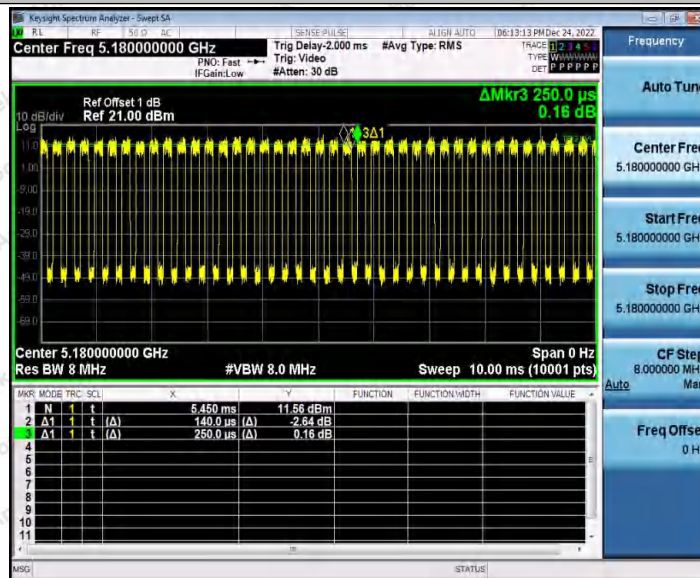
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

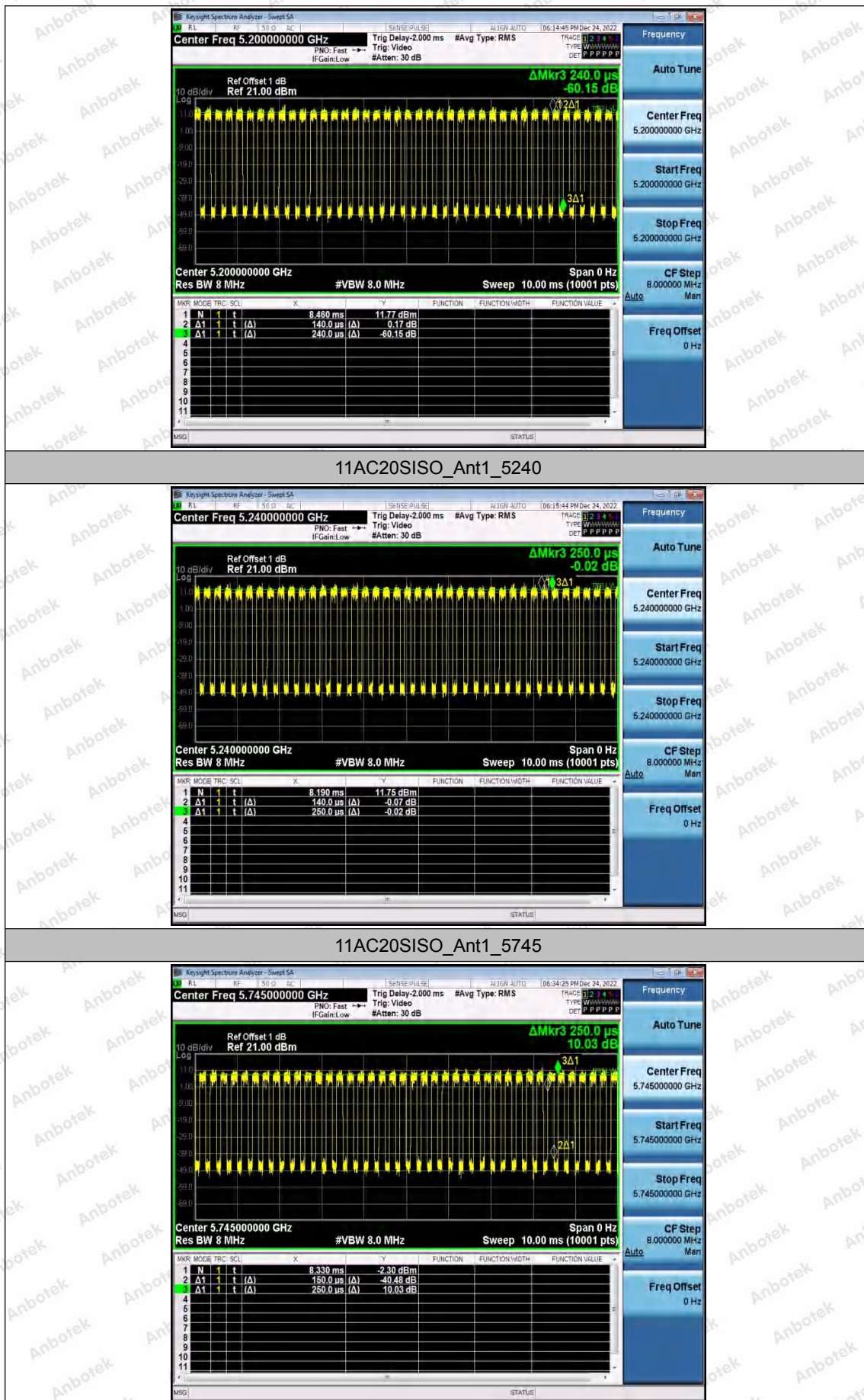
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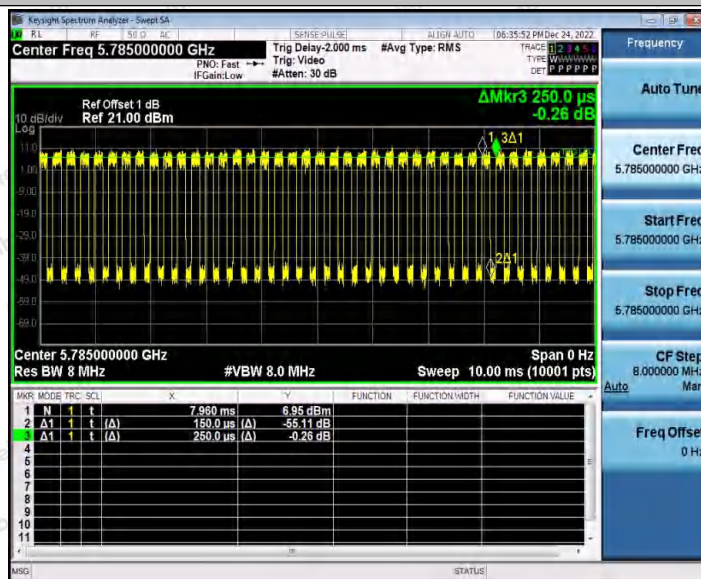
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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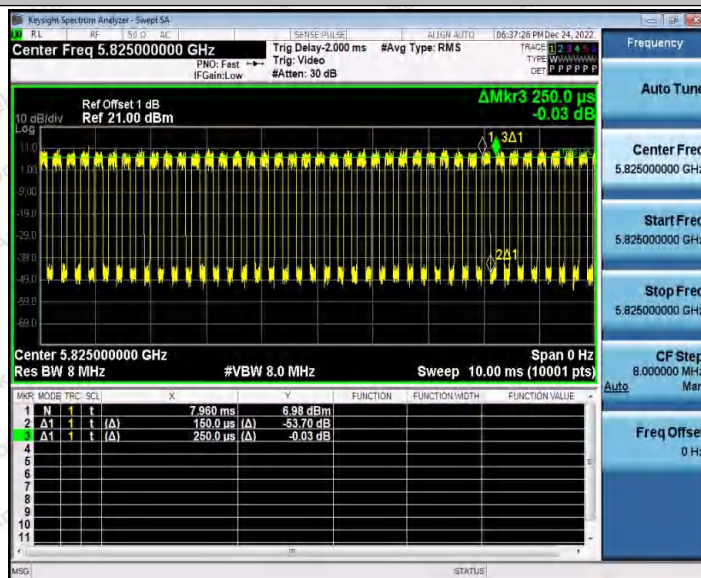
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190

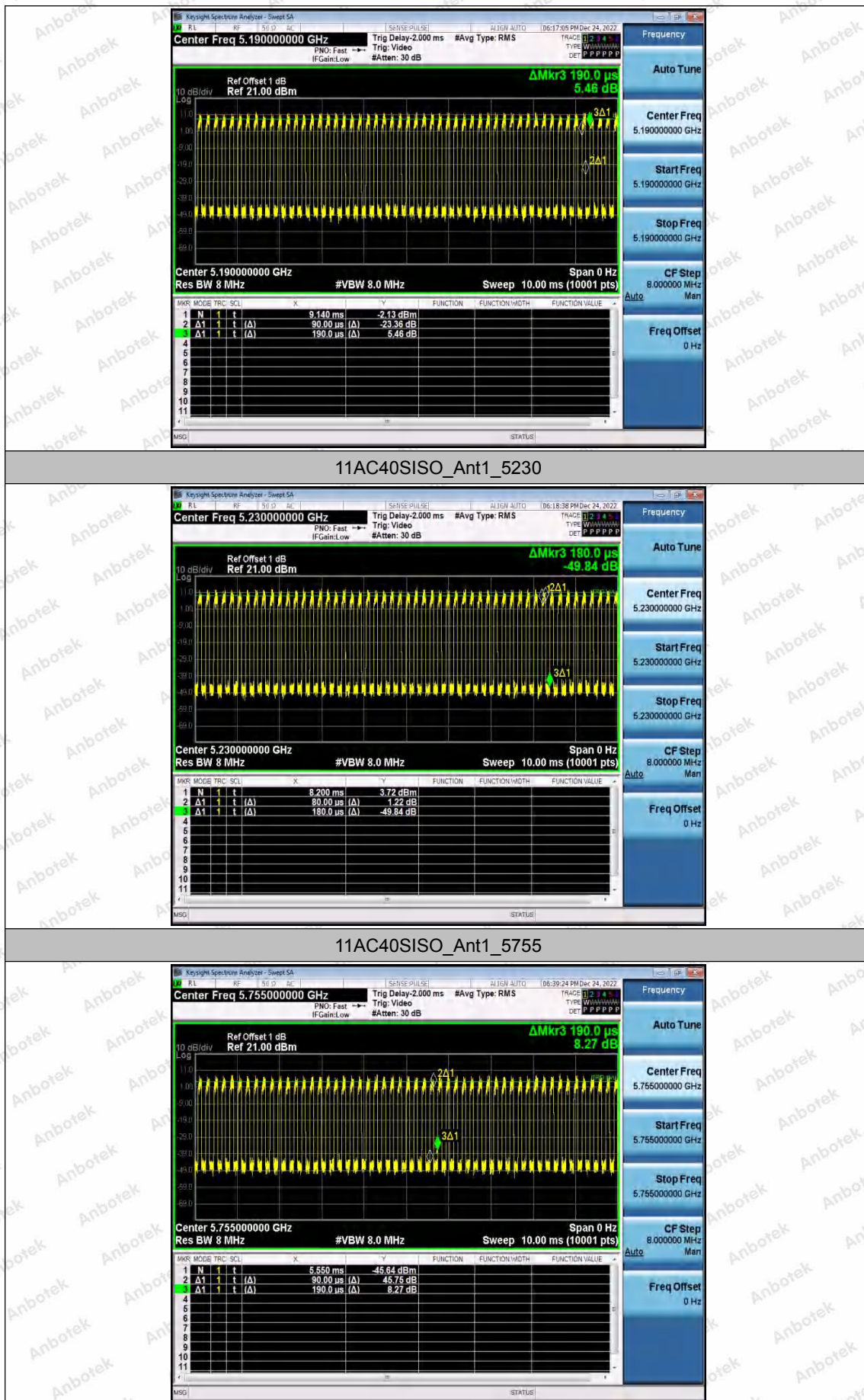
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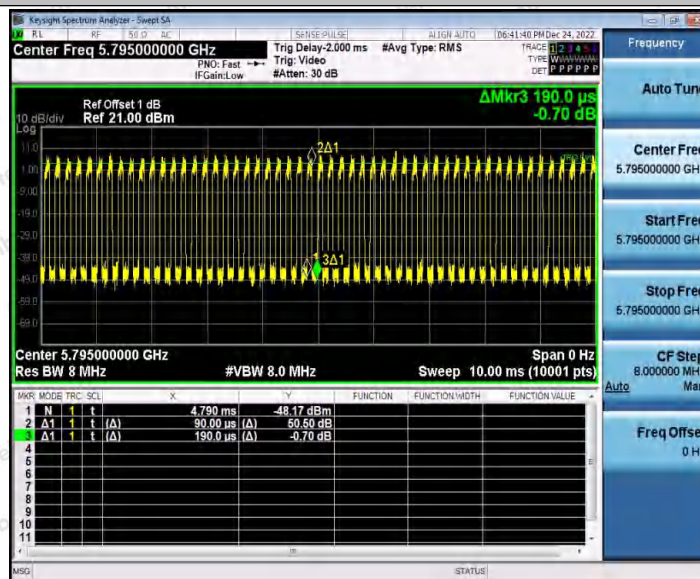
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



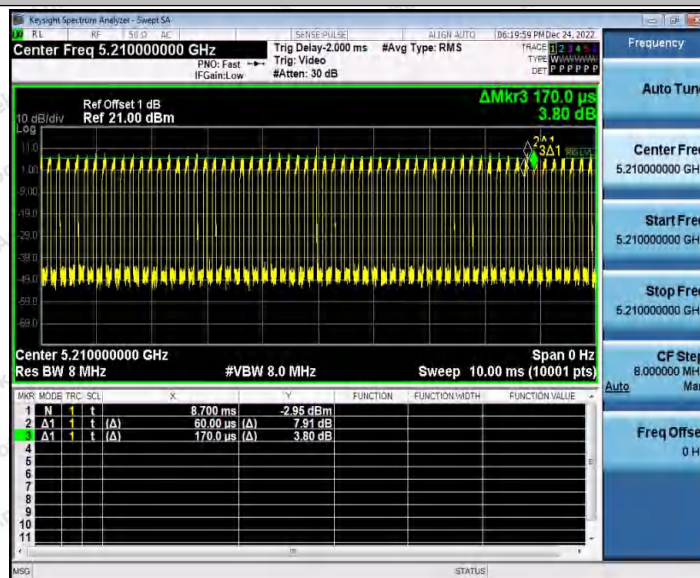
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

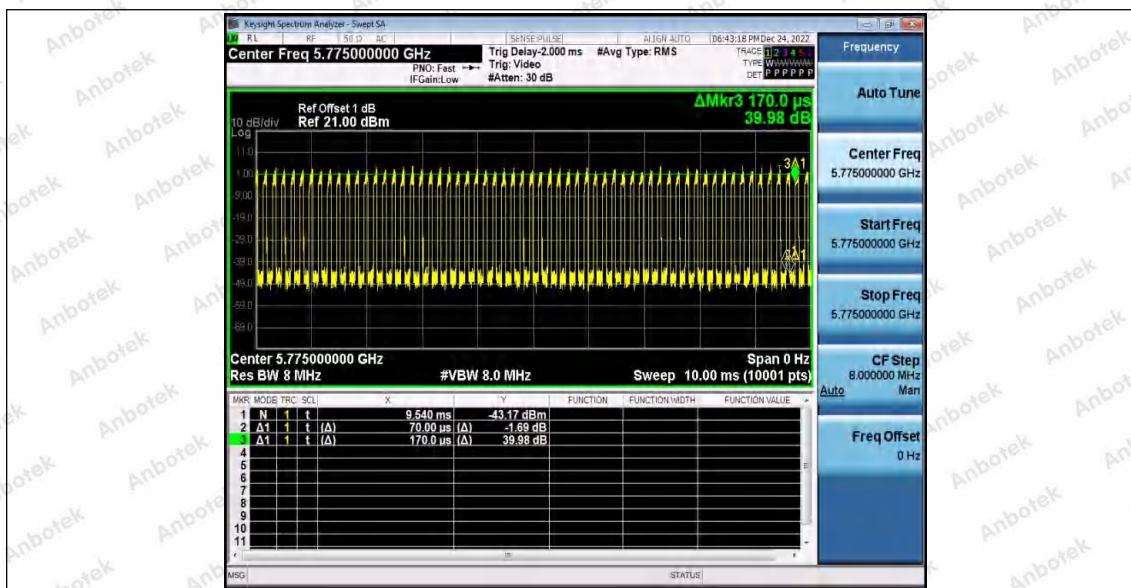
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Appendix C: Maximum conducted output power

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	---	15.34	62.96	2.01	17.35	≤23.98
		5200	---	15.45	62.96	2.01	17.46	≤23.98
		5240	---	15.29	64.29	1.92	17.21	≤23.98
		5745	---	10.88	62.96	2.01	12.89	≤30.00
		5785	---	10.82	64.29	1.92	12.74	≤30.00
		5825	---	10.62	62.96	2.01	12.63	≤30.00
11N20 SISO	Ant1	5180	---	15.22	61.54	2.11	17.33	≤23.98
		5200	---	15.29	62.96	2.01	17.30	≤23.98
		5240	---	15.20	62.96	2.01	17.21	≤23.98
		5745	---	10.92	62.96	2.01	12.93	≤30.00
		5785	---	10.70	62.96	2.01	12.71	≤30.00
		5825	---	10.70	61.54	2.11	12.81	≤30.00
11N40 SISO	Ant1	5190	---	15.22	50.00	3.01	18.23	≤23.98
		5230	---	15.32	50.00	3.01	18.33	≤23.98
		5755	---	10.92	47.62	3.22	14.14	≤30.00
		5795	---	10.71	50.00	3.01	13.72	≤30.00
11AC2 OSISO	Ant1	5180	---	15.36	56.00	2.52	17.88	≤23.98
		5200	---	15.08	58.33	2.34	17.42	≤23.98
		5240	---	15.21	56.00	2.52	17.73	≤23.98
		5745	---	11.11	60.00	2.22	13.33	≤30.00
		5785	---	10.65	60.00	2.22	12.87	≤30.00
		5825	---	10.42	60.00	2.22	12.64	≤30.00
11AC4 OSISO	Ant1	5190	---	14.90	47.37	3.24	18.14	≤23.98
		5230	---	15.43	44.44	3.52	18.95	≤23.98
		5755	---	10.63	47.37	3.24	13.87	≤30.00
		5795	---	10.72	47.37	3.24	13.96	≤30.00
11AC8 OSISO	Ant1	5210	---	15.09	35.29	4.52	19.61	≤23.98
		5775	---	10.43	41.18	3.85	14.28	≤30.00

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



Appendix D: Maximum power spectral density

Test Result B1

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-0.54	≤11.00	PASS
		5200	-0.37	≤11.00	PASS
		5240	-0.9	≤11.00	PASS
11N20SISO	Ant1	5180	-1	≤11.00	PASS
		5200	-1.09	≤11.00	PASS
		5240	-1.23	≤11.00	PASS
11N40SISO	Ant1	5190	-3.77	≤11.00	PASS
		5230	-3.4	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.81	≤11.00	PASS
		5200	-1.2	≤11.00	PASS
		5240	-0.64	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.45	≤11.00	PASS
		5230	-3.02	≤11.00	PASS
11AC80SISO	Ant1	5210	-5.67	≤11.00	PASS

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

Test Result B4

TestMode	Antenna	Frequency[MHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-7.85	≤30.00	PASS
		5785	-7.77	≤30.00	PASS
		5825	-8.2	≤30.00	PASS
11N20SISO	Ant1	5745	-7.97	≤30.00	PASS
		5785	-8.07	≤30.00	PASS
		5825	-7.89	≤30.00	PASS
11N40SISO	Ant1	5755	-10.31	≤30.00	PASS
		5795	-10.03	≤30.00	PASS
11AC20SISO	Ant1	5745	-7.74	≤30.00	PASS
		5785	-8.37	≤30.00	PASS
		5825	-8.37	≤30.00	PASS
11AC40SISO	Ant1	5755	-10.18	≤30.00	PASS
		5795	-10.21	≤30.00	PASS
11AC80SISO	Ant1	5775	-13.01	≤30.00	PASS

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

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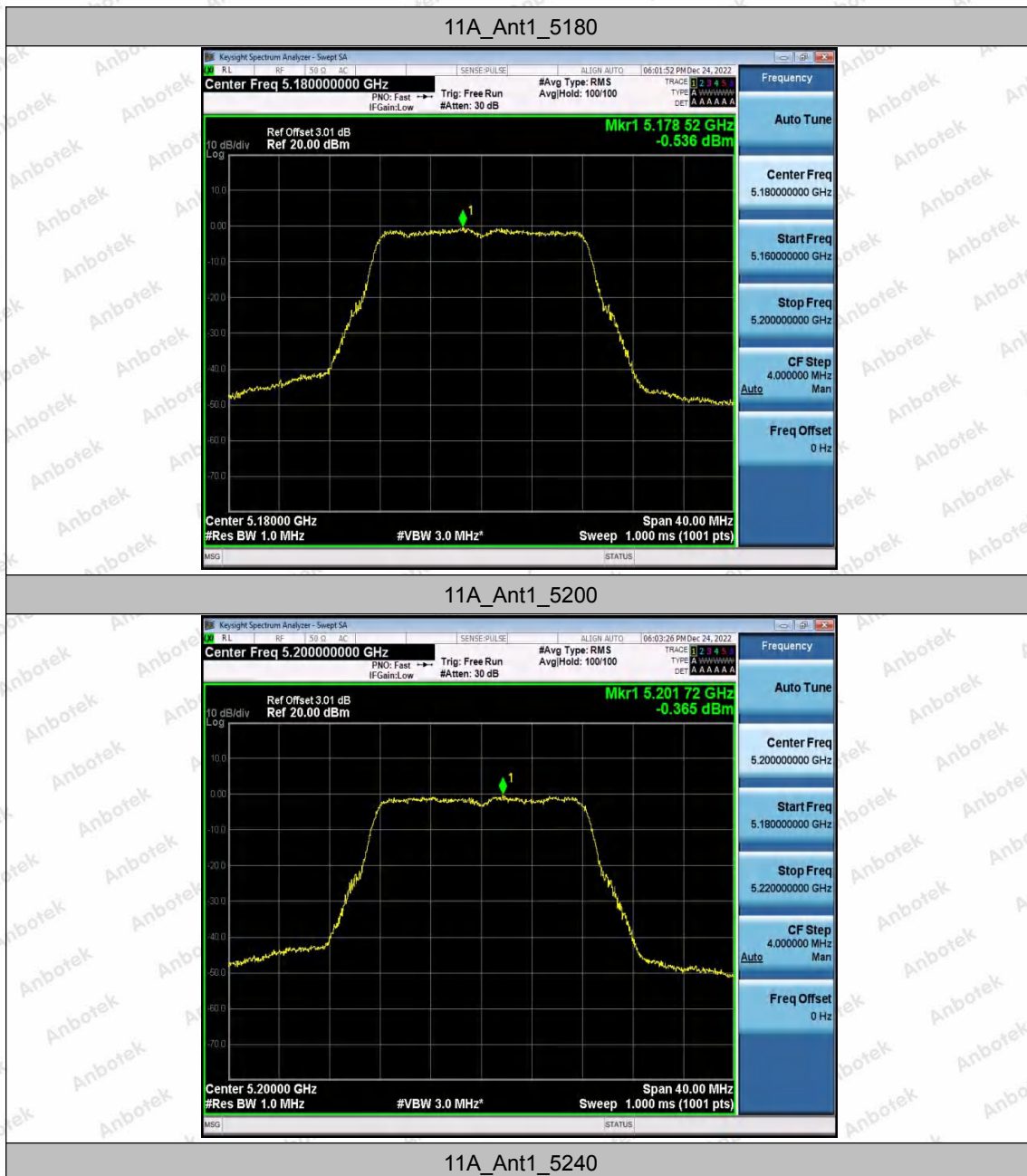
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Test Graphs B1



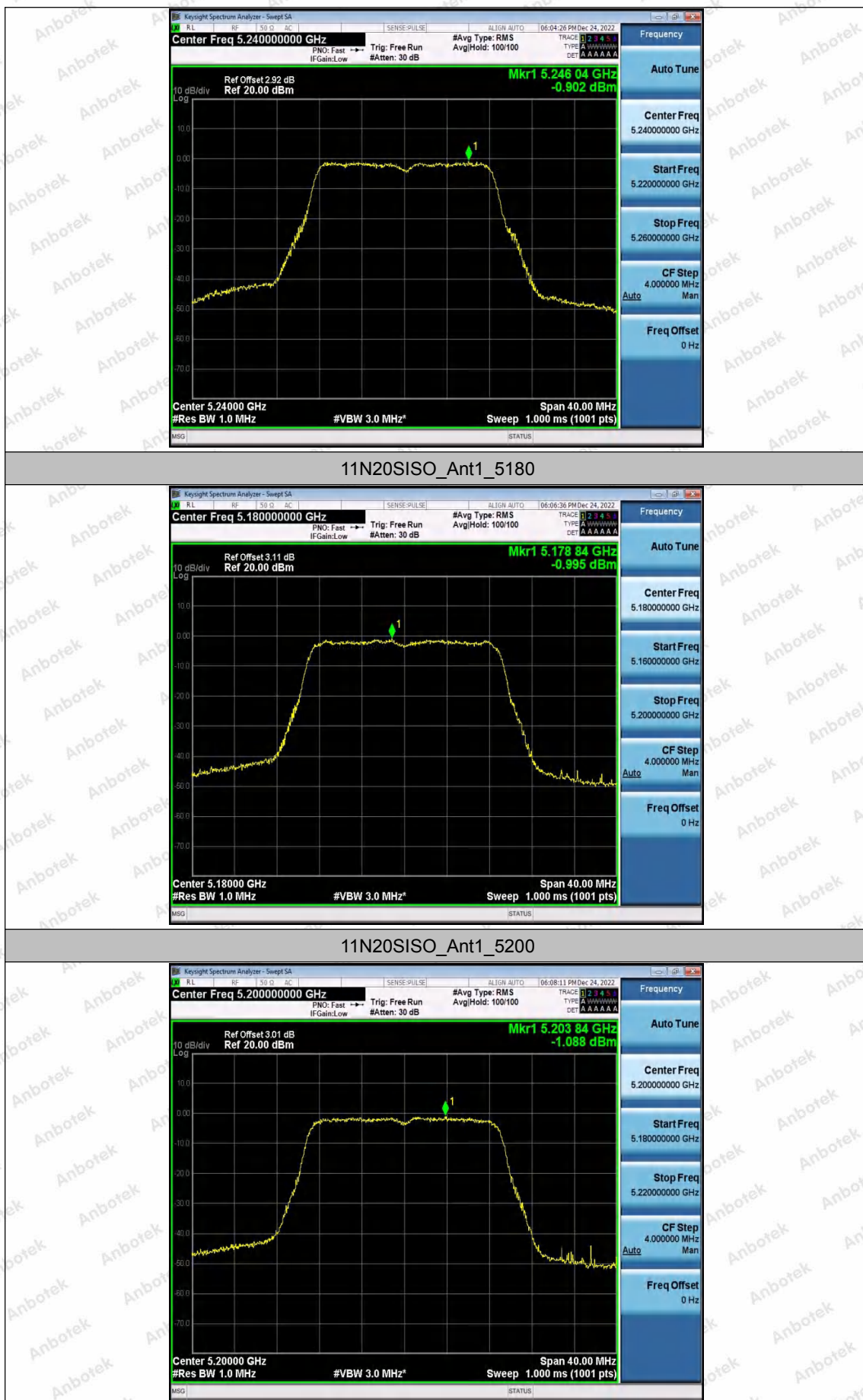
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

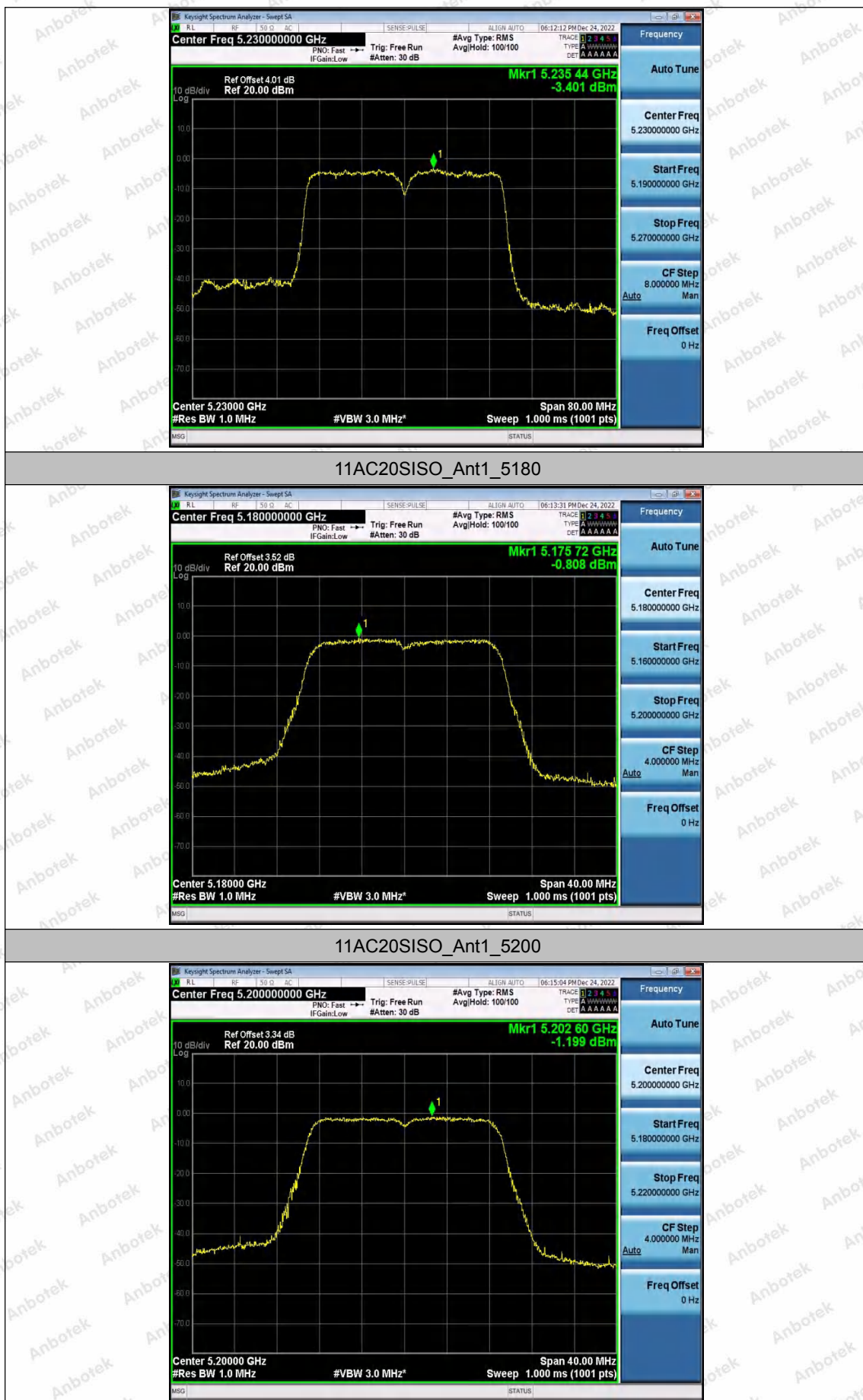
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11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

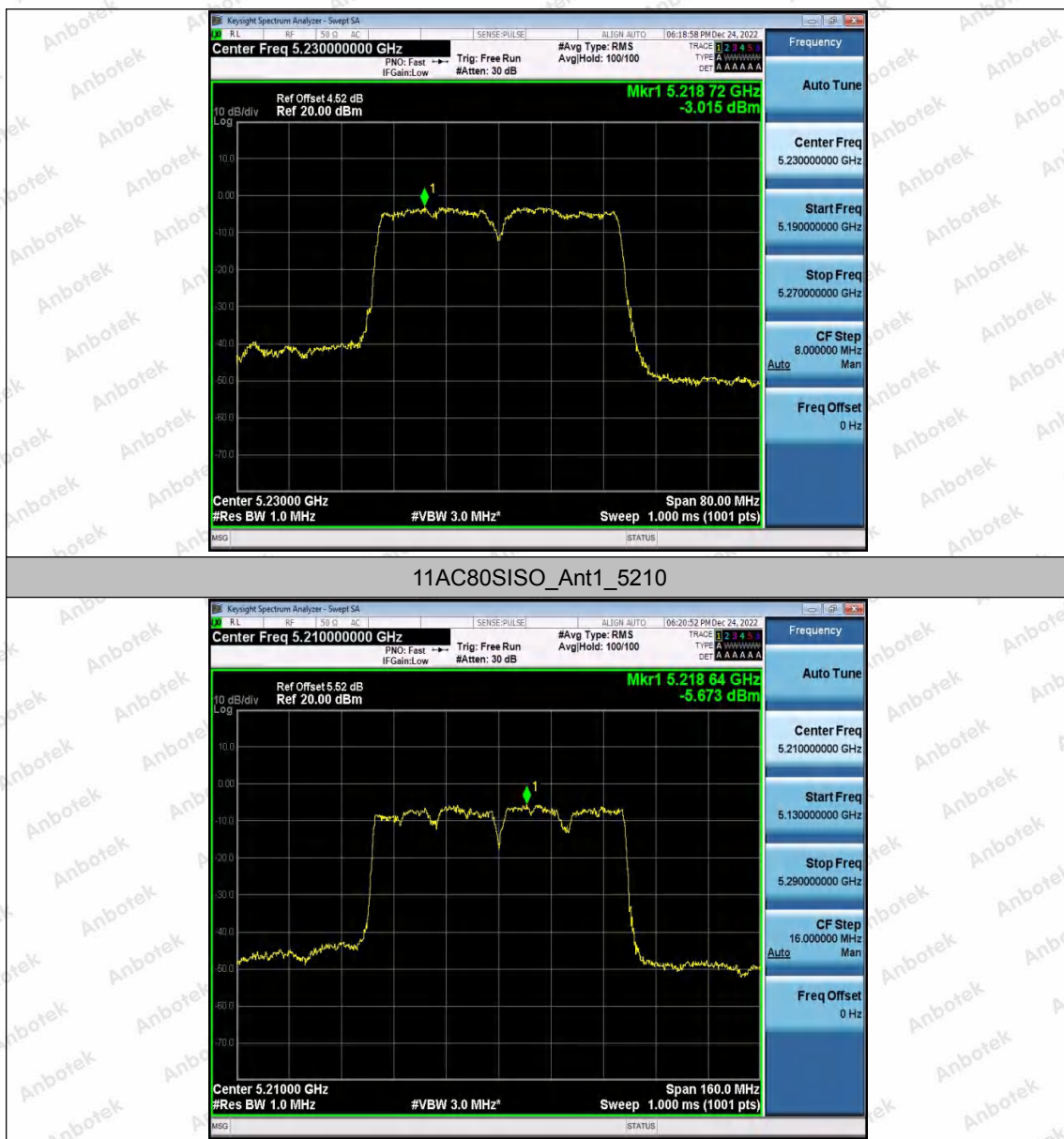
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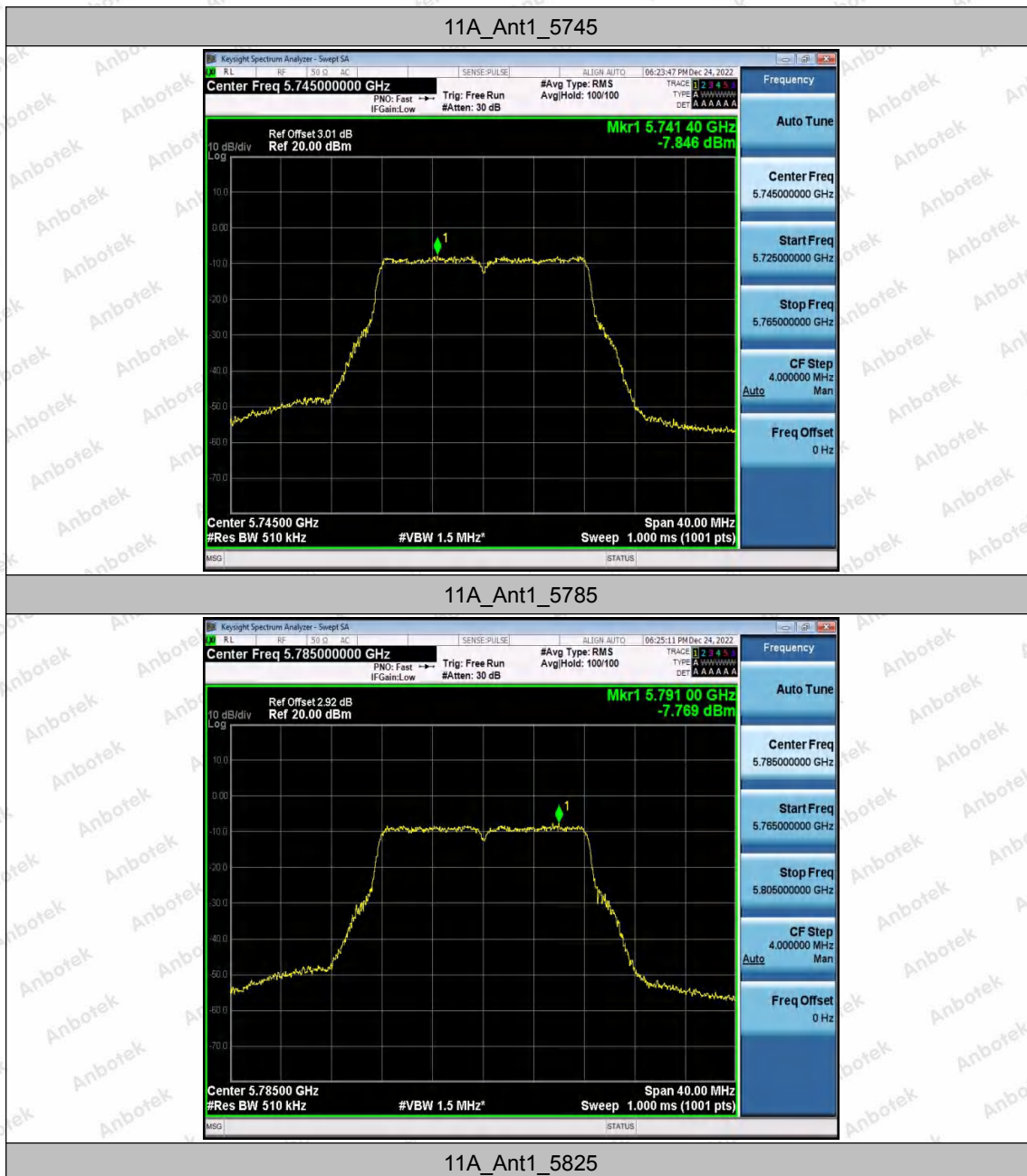
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Test Graphs B4



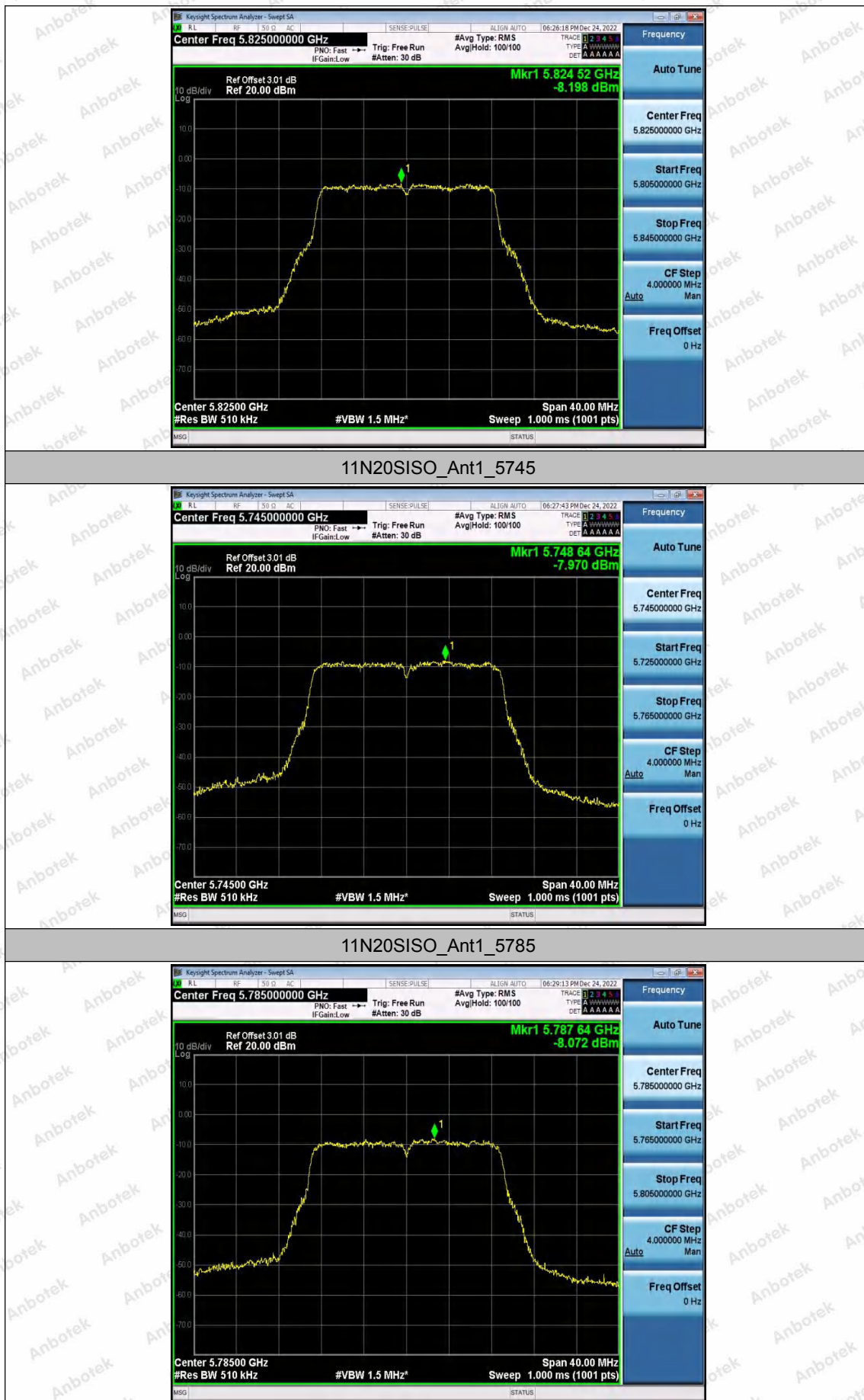
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

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11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

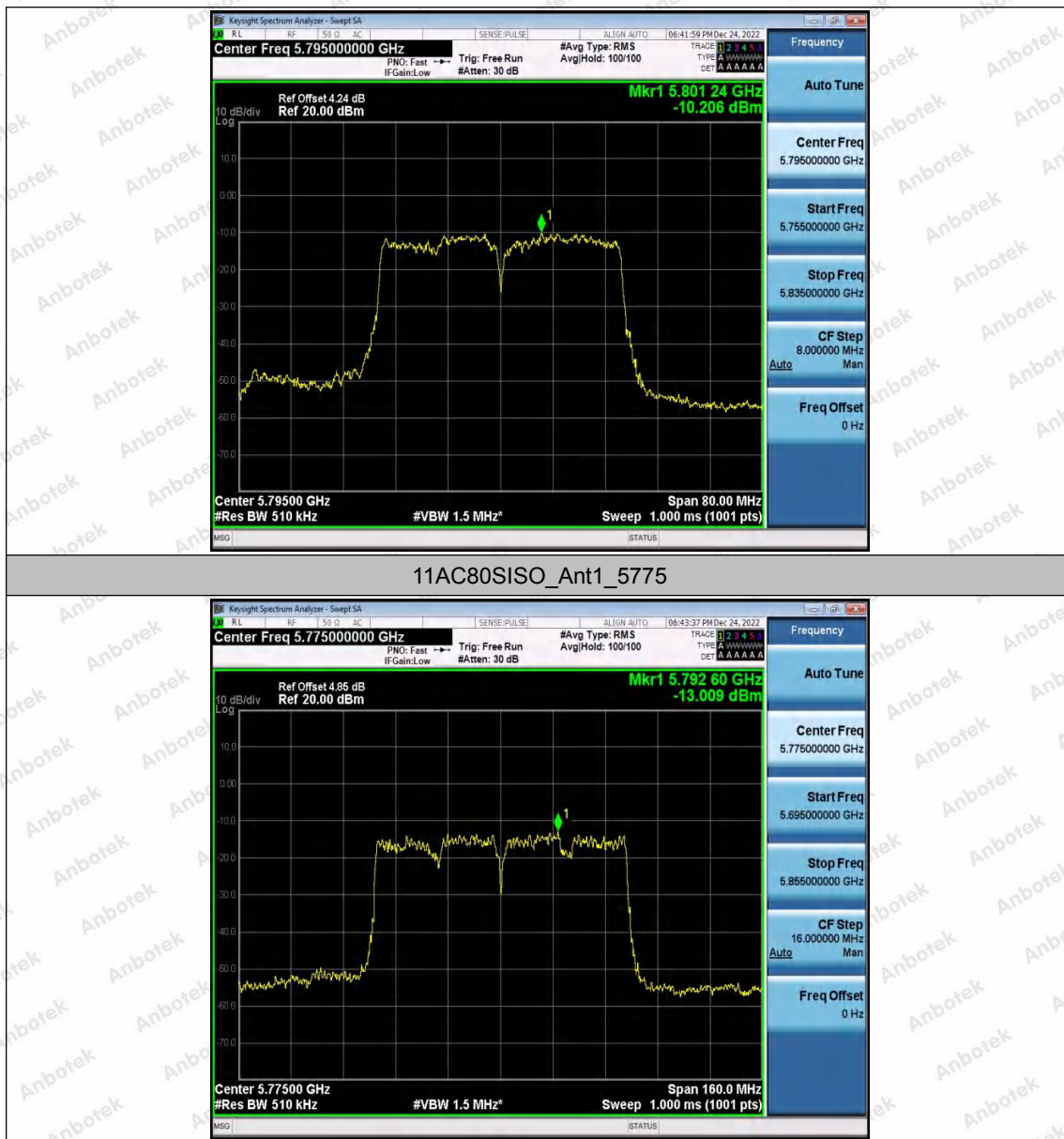
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Appendix E: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-49.97	≤-27	PASS
		High	5240	-50.82	≤-27	PASS
11N20SISO	Ant1	Low	5180	-50.35	≤-27	PASS
		High	5240	-50.66	≤-27	PASS
11N40SISO	Ant1	Low	5190	-43.69	≤-27	PASS
		High	5230	-52.99	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-49.37	≤-27	PASS
		High	5240	-50.83	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-45.49	≤-27	PASS
		High	5230	-52.76	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-43.8	≤-27	PASS
		High	5210	-54.36	≤-27	PASS

Test Result B4

TestMode	Antenna	ChName	Frequency[MHz]	FreqRange[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-51.85	≤-17.59	PASS
				5700~5720	-56.06	≤15.47	PASS
				5720~5725	-49.65	≤26.83	PASS
				5760~5650	-58.7	≤-27	PASS
		High	5825	5850~5855	-56.71	≤25.34	PASS
				5855~5875	-57.19	≤13.50	PASS
				5875~5925	-50.9	≤-6.78	PASS
				5925~5935	-58.89	≤-27	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-51.66	≤-15.72	PASS
				5700~5720	-51.32	≤15.34	PASS
				5720~5725	-46.27	≤25.78	PASS
				5760~5650	-58.81	≤-27	PASS
		High	5825	5850~5855	-51.73	≤21.33	PASS
				5855~5875	-55.33	≤10.17	PASS
				5875~5925	-49.99	≤-3.08	PASS
				5925~5935	-57.44	≤-27	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-51.82	≤8.16	PASS
				5700~5720	-42.5	≤14.90	PASS
				5720~5725	-43.46	≤24.66	PASS
				5780~5650	-58.88	≤-27	PASS
		High	5795	5850~5855	-50.77	≤23.56	PASS

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				5855~5875	-50.77	≤ 12.03	PASS
				5875~5925	-51.63	≤ 22.53	PASS
				5925~5935	-56.7	≤ 27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-51.13	≤ 13.00	PASS
				5700~5720	-50.57	≤ 15.43	PASS
				5720~5725	-46.52	≤ 26.30	PASS
				5760~5650	-58.93	≤ 27	PASS
		High	5825	5850~5855	-54.48	≤ 20.72	PASS
				5855~5875	-56.67	≤ 11.46	PASS
				5875~5925	-50.81	≤ 12.37	PASS
				5925~5935	-58	≤ 27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-50.91	≤ 8.26	PASS
				5700~5720	-42.88	≤ 14.90	PASS
				5720~5725	-45.19	≤ 18.51	PASS
				5780~5650	-57.96	≤ 27	PASS
		High	5795	5850~5855	-50.66	≤ 20.92	PASS
				5855~5875	-50.84	≤ 10.27	PASS
				5875~5925	-50.91	≤ 19.72	PASS
				5925~5935	-55.74	≤ 27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-47.91	≤ 0.73	PASS
				5700~5720	-47.64	≤ 15.26	PASS
				5720~5725	-48.22	≤ 15.65	PASS
				5800~5650	-56.25	≤ 27	PASS
		High	5775	5850~5855	-52.24	≤ 23.81	PASS
				5855~5875	-51.69	≤ 14.89	PASS
				5875~5925	-53.85	≤ 26.27	PASS
				5925~5935	-57.67	≤ 27	PASS

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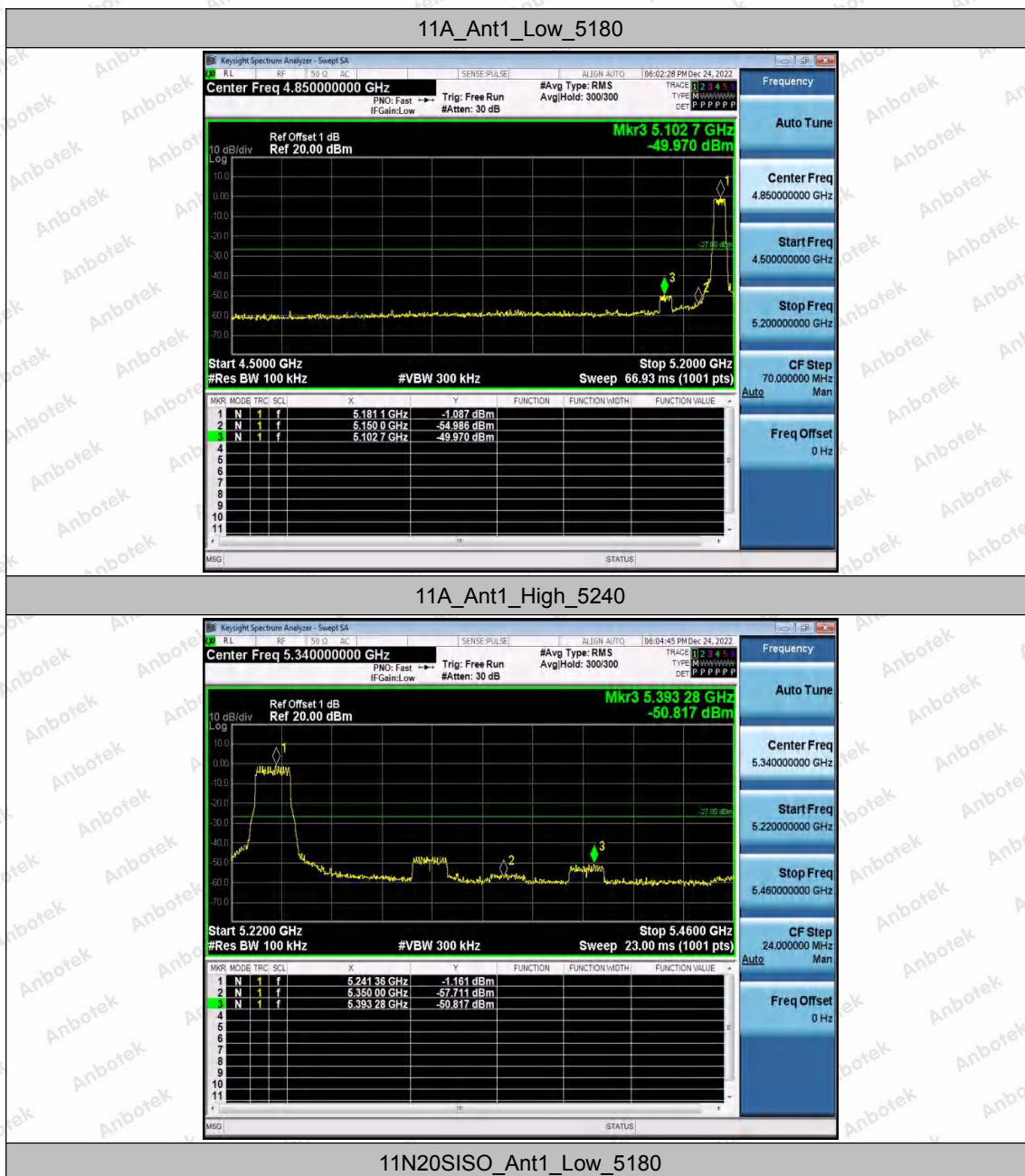
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
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Test Graphs B1



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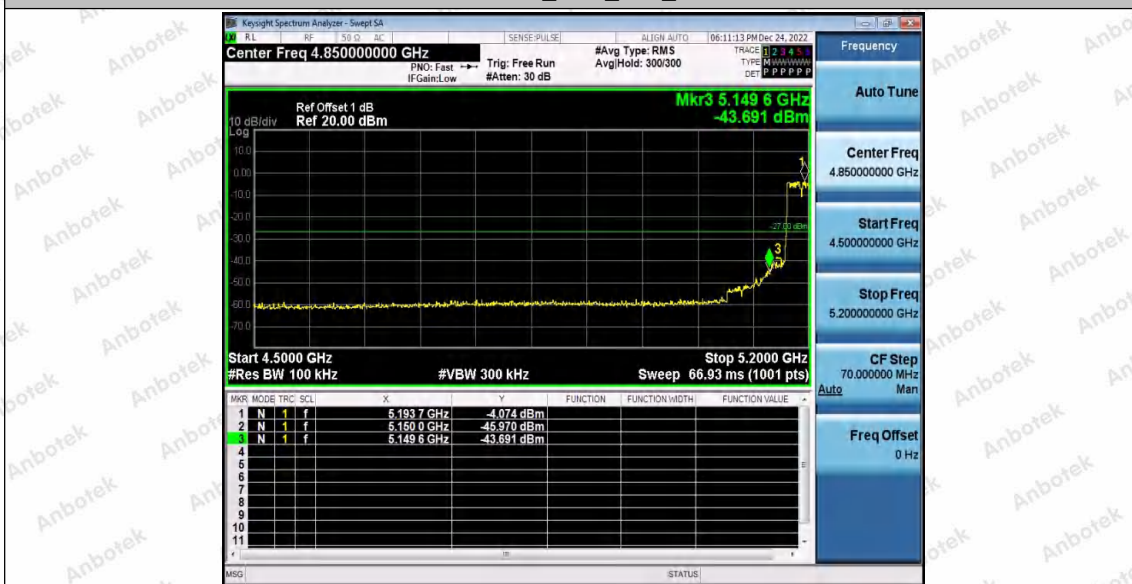




11N20SISO_Ant1_High_5240



11N40SISO_Ant1_Low_5190



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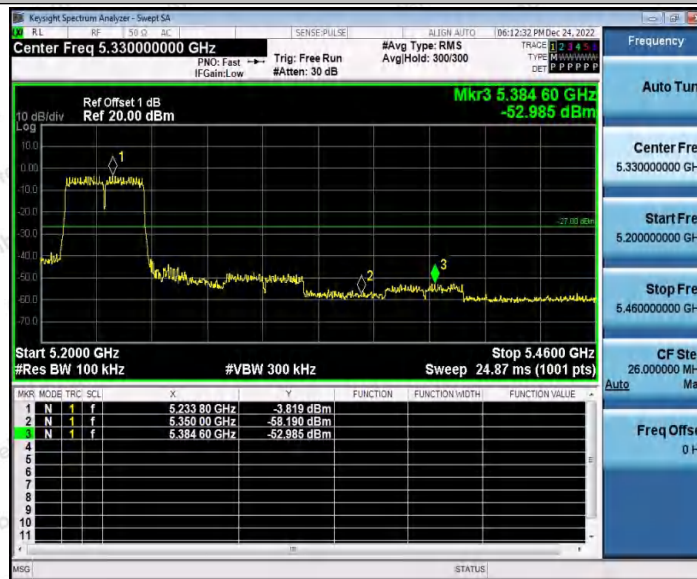
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N40SISO_Ant1_High_5230



11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240

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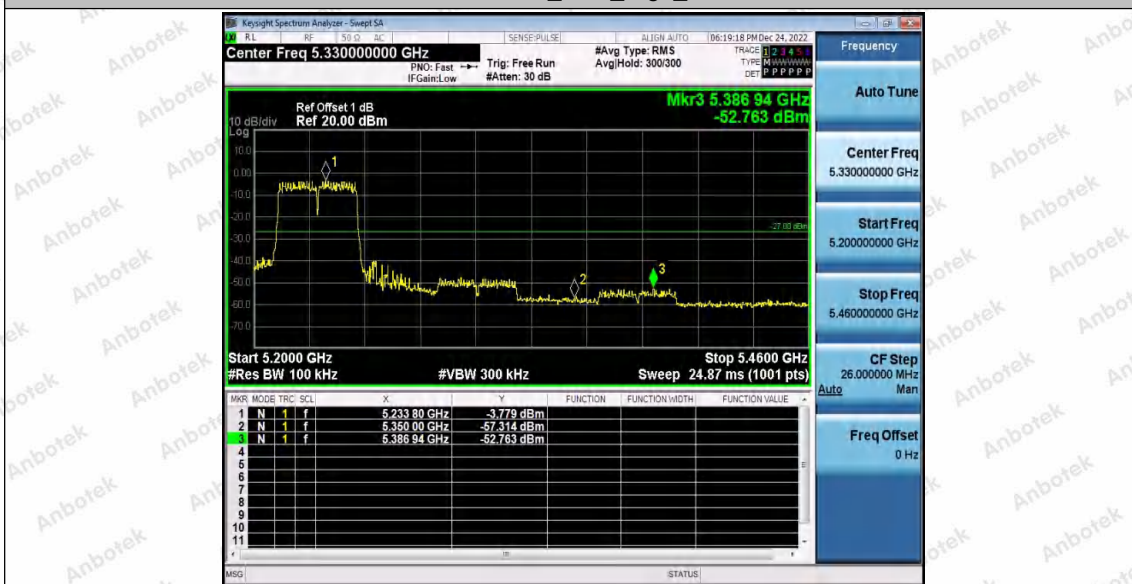




11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



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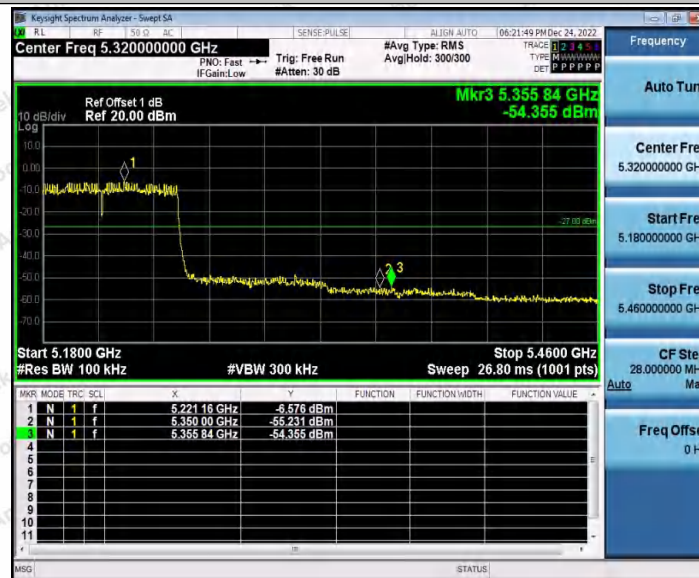
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11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



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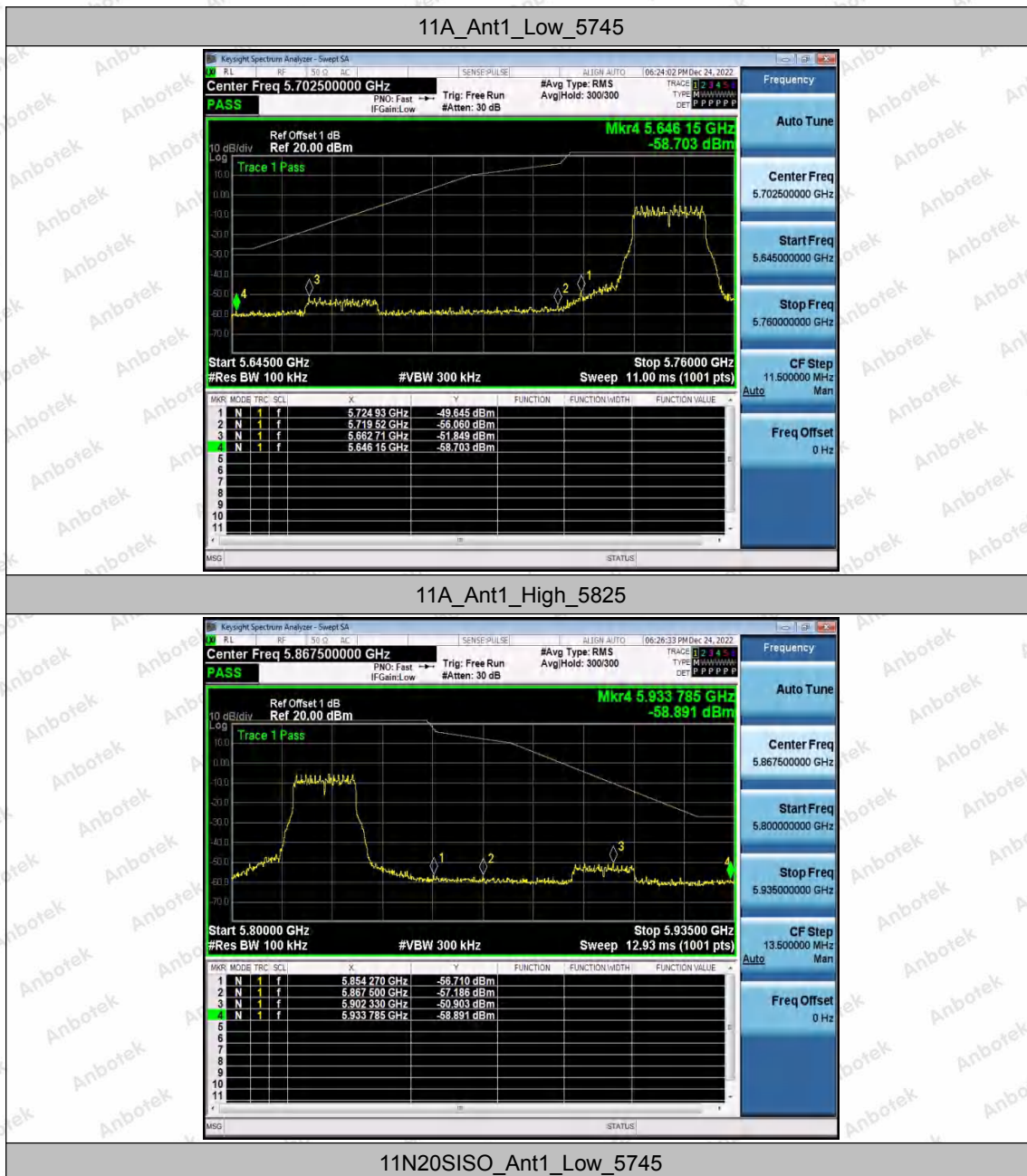
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs B4



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11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



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11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825

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11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



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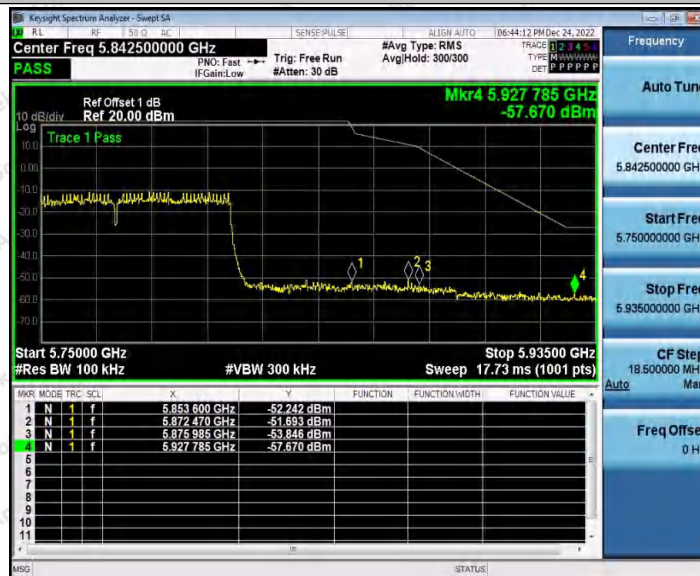
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11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



---End---

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