

Appendix Test Data

Report No.:	18220WC20263904	Test Sample No.:	1-2-2
Start Test Date:	2022.11.15	Finish Test Date:	2022.11.24
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	46 %
Pressure:	1012 hPa		

Appendix A1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	23.040	5168.400	5191.440
		5200	22.680	5188.280	5210.960
		5240	23.240	5228.200	5251.440
		5745	22.480	5733.840	5756.320
		5785	22.360	5773.960	5796.320
		5825	23.000	5813.640	5836.640
11N20SISO	Ant1	5180	21.920	5169.160	5191.080
		5200	22.480	5188.680	5211.160
		5240	23.080	5228.360	5251.440
		5745	22.240	5733.680	5755.920
		5785	22.560	5773.480	5796.040
		5825	22.120	5813.720	5835.840
11N40SISO	Ant1	5190	43.600	5168.080	5211.680
		5230	43.200	5208.480	5251.680
		5755	42.960	5733.560	5776.520
		5795	43.760	5773.320	5817.080
11AC20SISO	Ant1	5180	22.200	5168.760	5190.960
		5200	22.440	5188.800	5211.240
		5240	22.760	5228.760	5251.520
		5745	23.040	5733.480	5756.520
		5785	22.880	5773.680	5796.560
		5825	22.440	5813.720	5836.160
11AC40SISO	Ant1	5190	43.120	5168.000	5211.120

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11AC80SISO	Ant1	5230	43.600	5207.840	5251.440
		5755	44.400	5732.840	5777.240
		5795	42.400	5773.720	5816.120
		5210	83.520	5168.720	5252.240
		5775	82.720	5733.880	5816.600

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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_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

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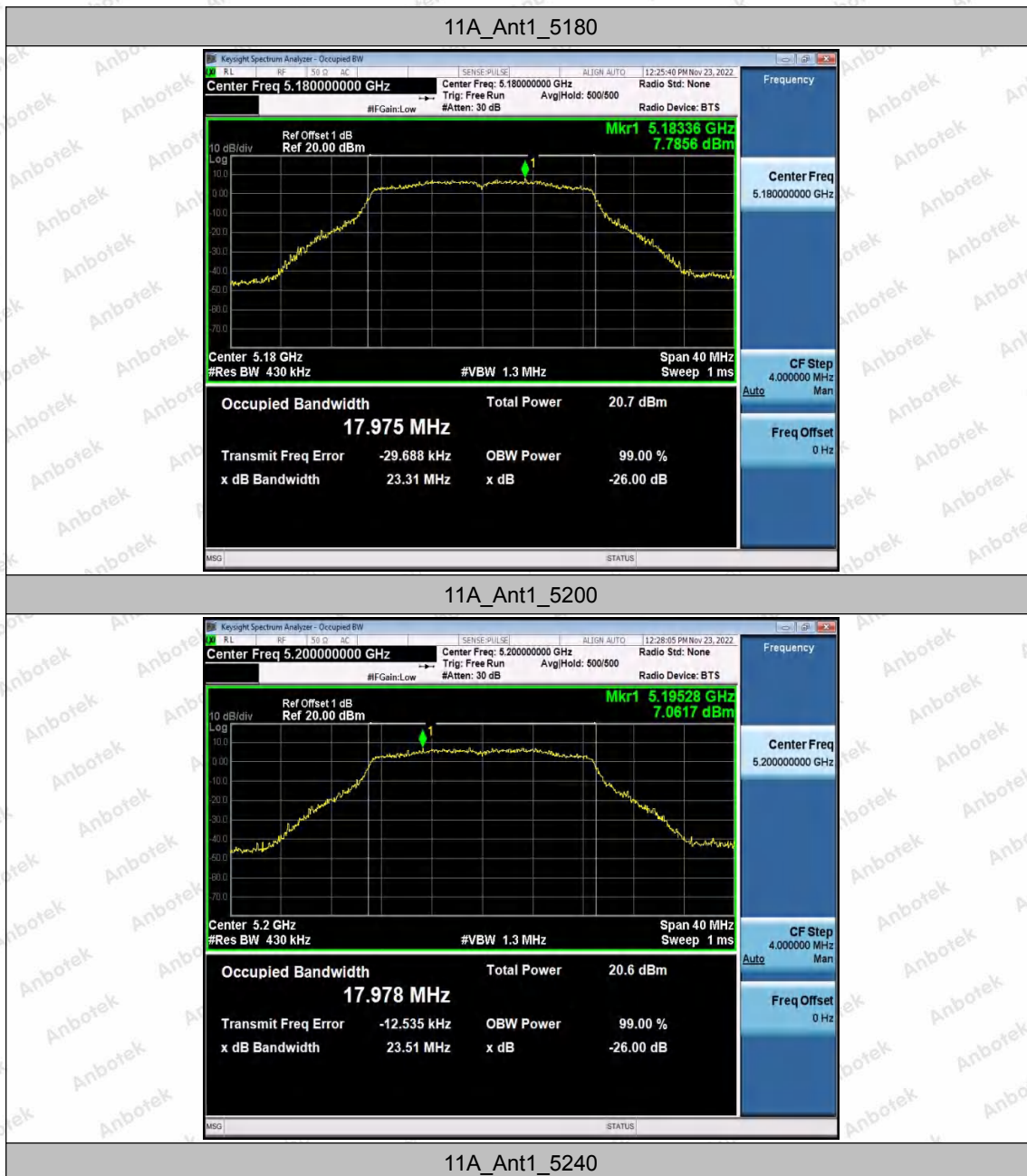
Appendix A2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	17.975	5170.9828	5188.9578
		5200	17.978	5190.9985	5208.9765
		5240	17.967	5231.0062	5248.9732
		5745	17.995	5736.0295	5754.0245
		5785	18.007	5775.9511	5793.9581
		5825	18.000	5815.9888	5833.9888
11N20SISO	Ant1	5180	18.018	5170.9451	5188.9631
		5200	18.015	5190.9662	5208.9812
		5240	18.000	5230.9872	5248.9872
		5745	17.993	5735.9870	5753.9800
		5785	18.010	5775.9536	5793.9636
		5825	17.968	5815.9840	5833.9520
11N40SISO	Ant1	5190	36.283	5171.8483	5208.1313
		5230	36.171	5211.9583	5248.1293
		5755	36.178	5736.9268	5773.1048
		5795	36.205	5776.8916	5813.0966
11AC20SISO	Ant1	5180	18.055	5170.9471	5189.0021
		5200	18.018	5190.9956	5209.0136
		5240	17.991	5230.9709	5248.9619
		5745	17.968	5735.9972	5753.9652
		5785	17.992	5775.9702	5793.9622
		5825	17.991	5815.9704	5833.9614
11AC40SISO	Ant1	5190	36.193	5171.9334	5208.1264
		5230	36.205	5211.9340	5248.1390
		5755	36.236	5736.9224	5773.1584
		5795	36.194	5776.9157	5813.1097
11AC80SISO	Ant1	5210	75.240	5172.5857	5247.8257
		5775	75.159	5737.5100	5812.6690



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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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 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	13.840	5737.400	5751.240	0.5	PASS
		5785	15.040	5777.400	5792.440	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N20SISO	Ant1	5745	17.160	5736.560	5753.720	0.5	PASS
		5785	12.720	5777.480	5790.200	0.5	PASS
		5825	17.560	5816.160	5833.720	0.5	PASS
11N40SISO	Ant1	5755	32.640	5737.400	5770.040	0.5	PASS
		5795	33.840	5777.400	5811.240	0.5	PASS
11AC20SISO	Ant1	5745	15.040	5737.440	5752.480	0.5	PASS
		5785	15.040	5777.400	5792.440	0.5	PASS
		5825	13.400	5819.040	5832.440	0.5	PASS
11AC40SISO	Ant1	5755	31.360	5737.400	5768.760	0.5	PASS
		5795	35.040	5777.400	5812.440	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS



Test Graphs B4



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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



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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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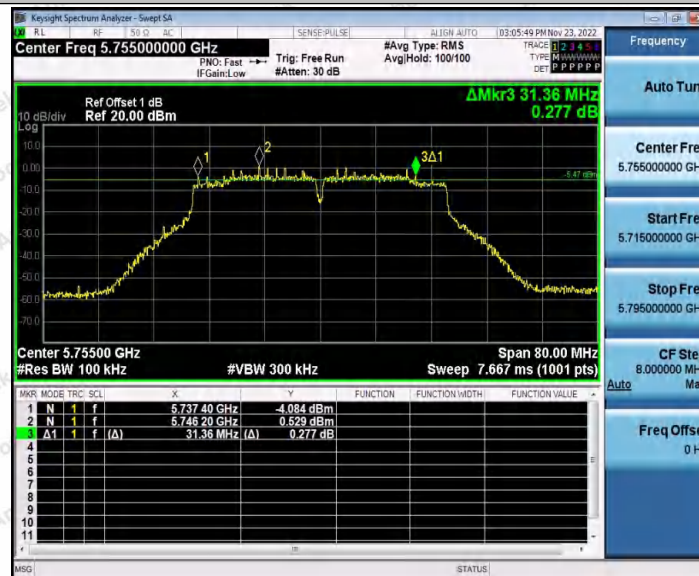
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11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

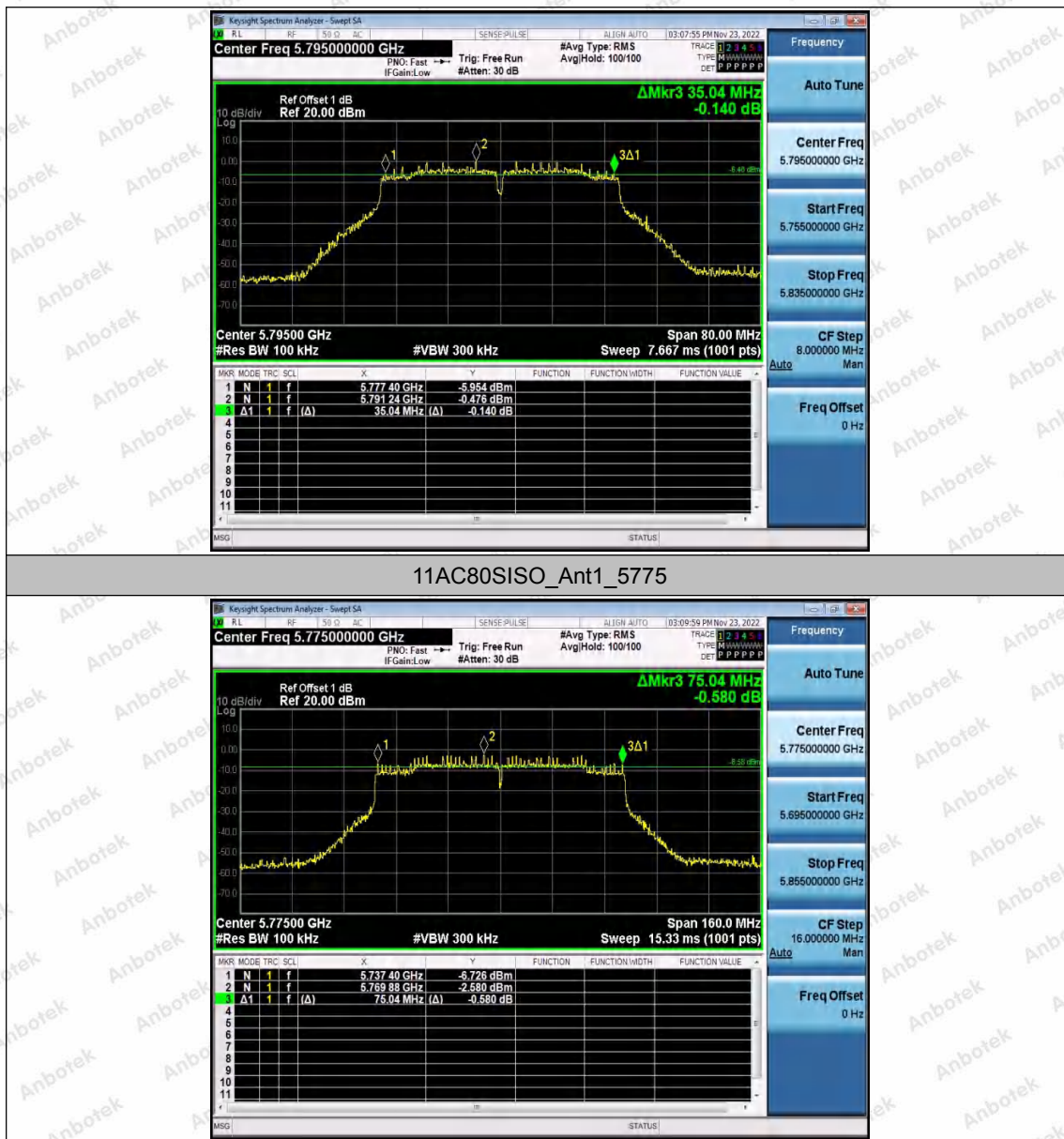
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Appendix B: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.91	1.98	96.46
		5200	1.91	1.98	96.46
		5240	1.91	1.98	96.46
		5745	1.92	2.40	80.00
		5785	1.91	2.40	79.58
		5825	1.92	2.40	80.00
11N20SISO	Ant1	5180	1.92	1.99	96.48
		5200	1.92	1.98	96.97
		5240	1.91	1.98	96.46
		5745	1.91	2.40	79.58
		5785	1.92	2.40	80.00
		5825	1.92	2.41	79.67
11N40SISO	Ant1	5190	0.94	0.98	95.92
		5230	0.94	0.98	95.92
		5755	0.94	1.19	78.99
		5795	0.95	1.19	79.83
11AC20SISO	Ant1	5180	1.91	1.98	96.46
		5200	1.92	1.98	96.97
		5240	1.91	1.98	96.46
		5745	1.91	2.40	79.58
		5785	1.91	2.40	79.58
		5825	1.91	2.40	79.58
11AC40SISO	Ant1	5190	0.95	0.98	96.94
		5230	0.95	0.98	96.94
		5755	0.94	1.19	78.99
		5795	0.95	1.19	79.83
11AC80SISO	Ant1	5210	0.46	0.50	92.00
		5775	0.46	0.59	77.97

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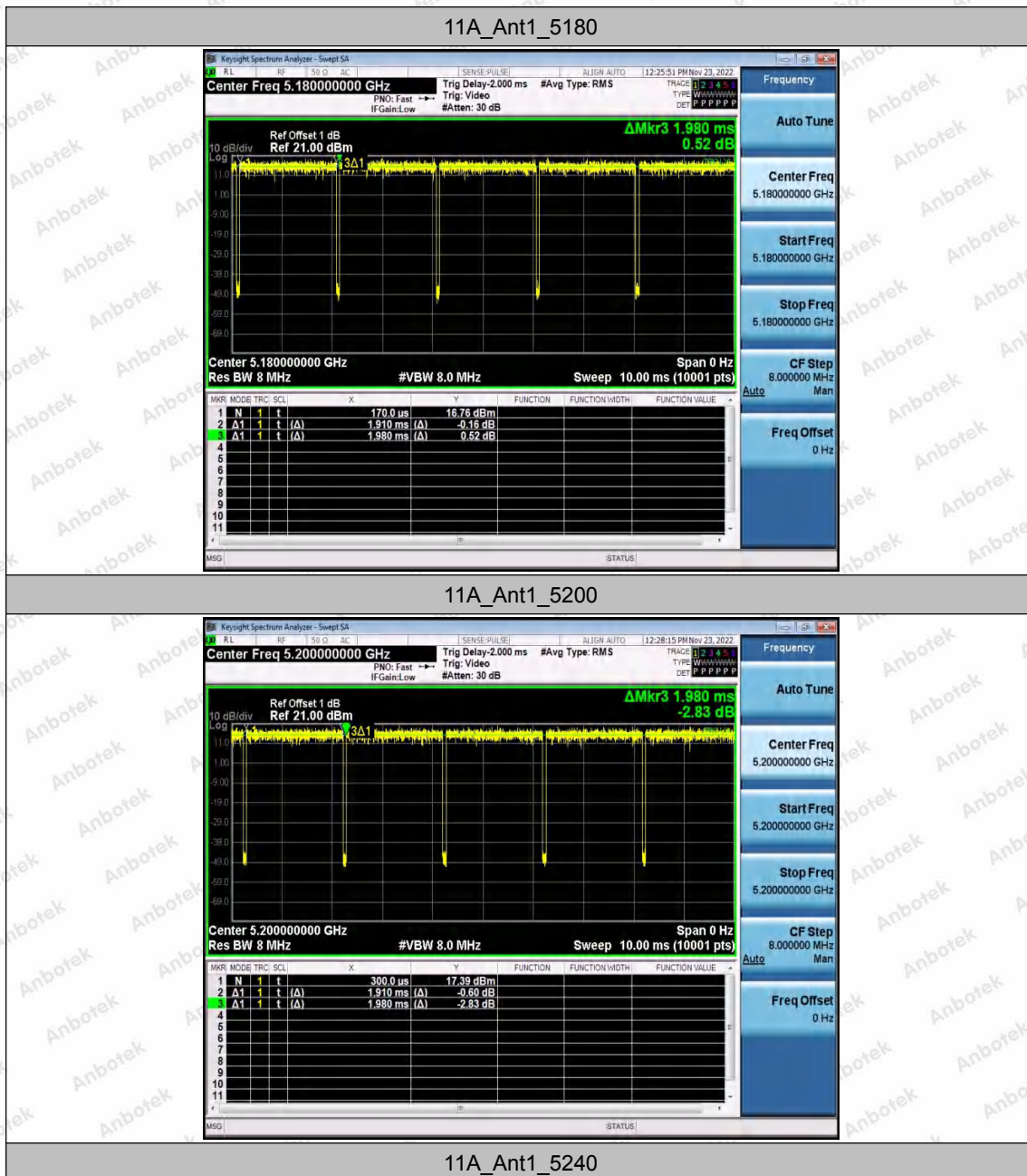
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Test Graphs



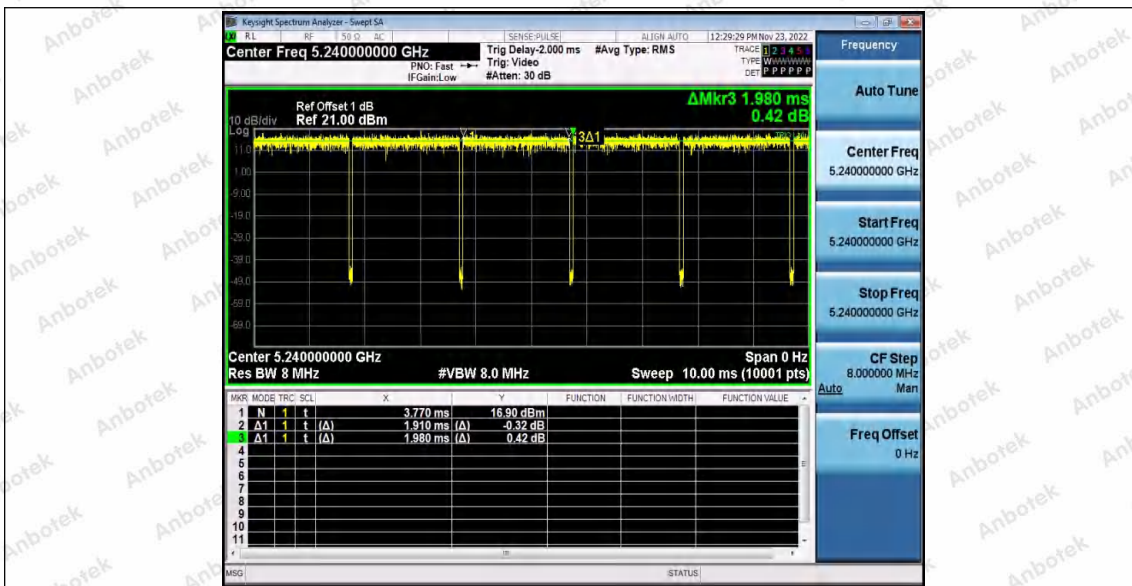
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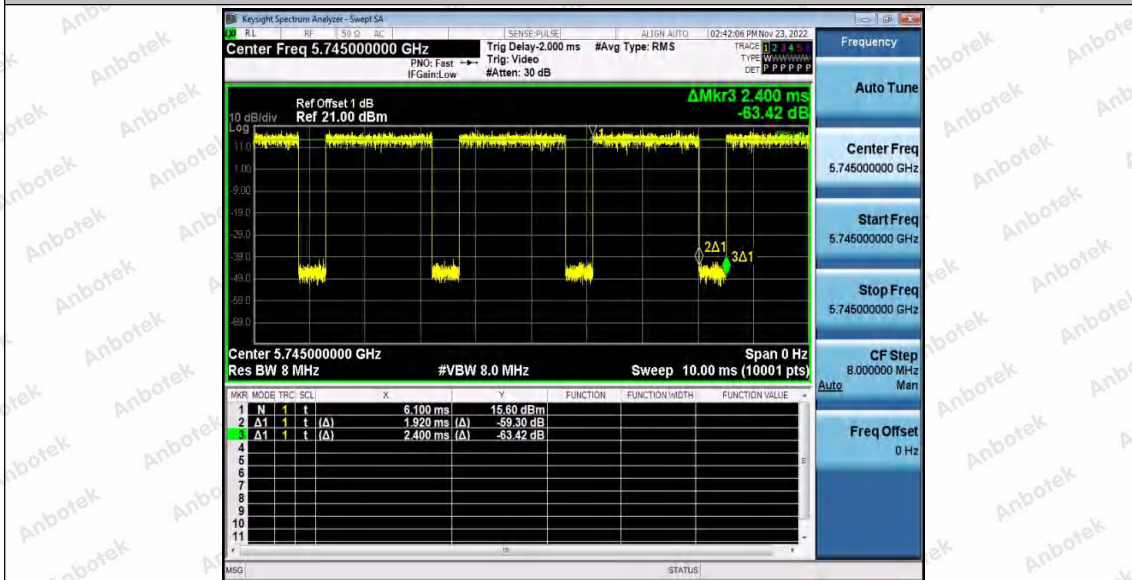


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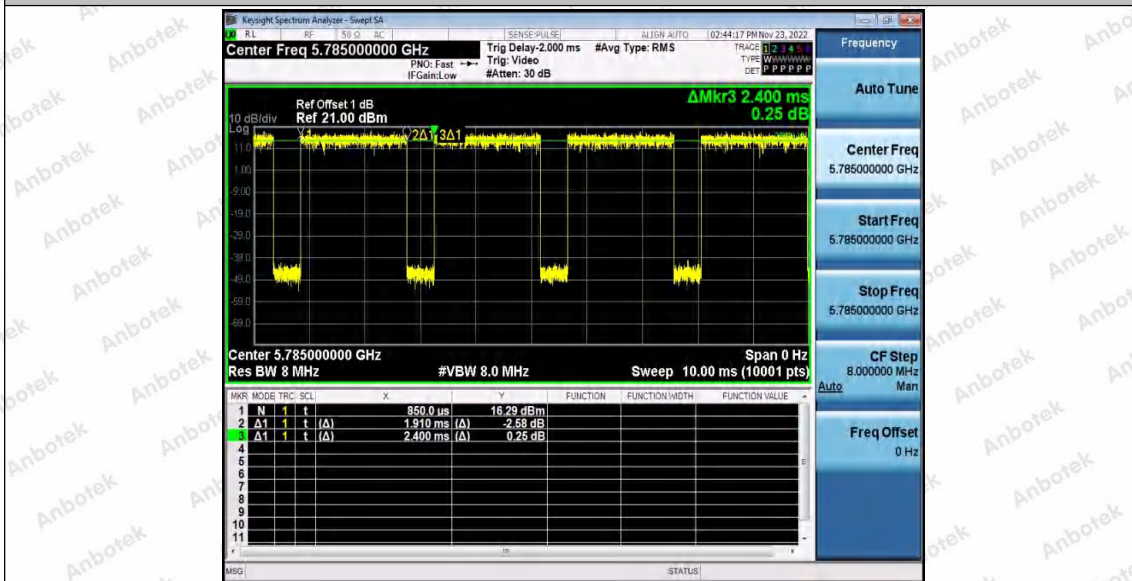




11A_Ant1_5745



11A_Ant1_5785



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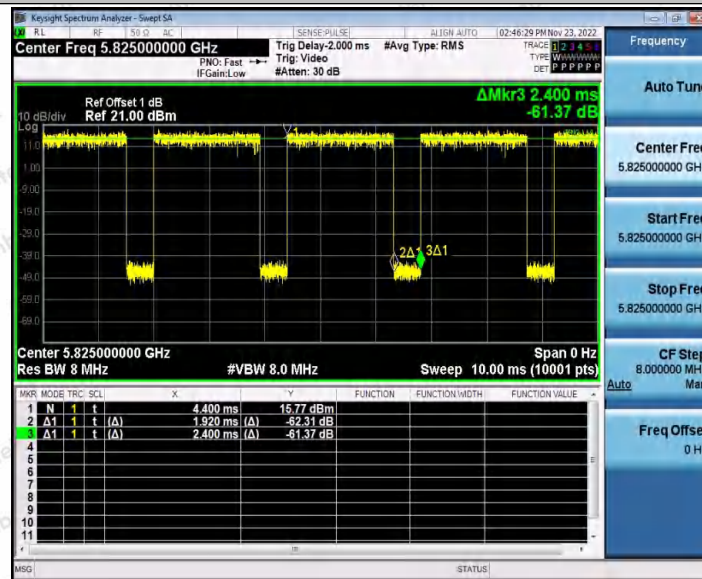
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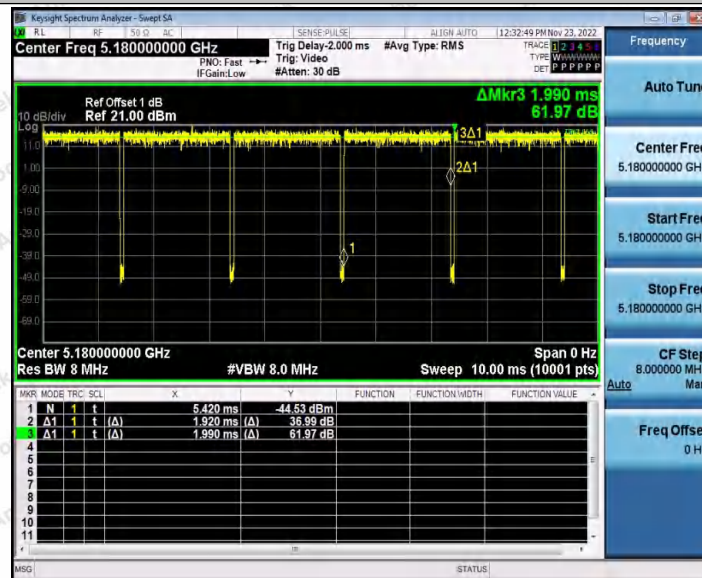
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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

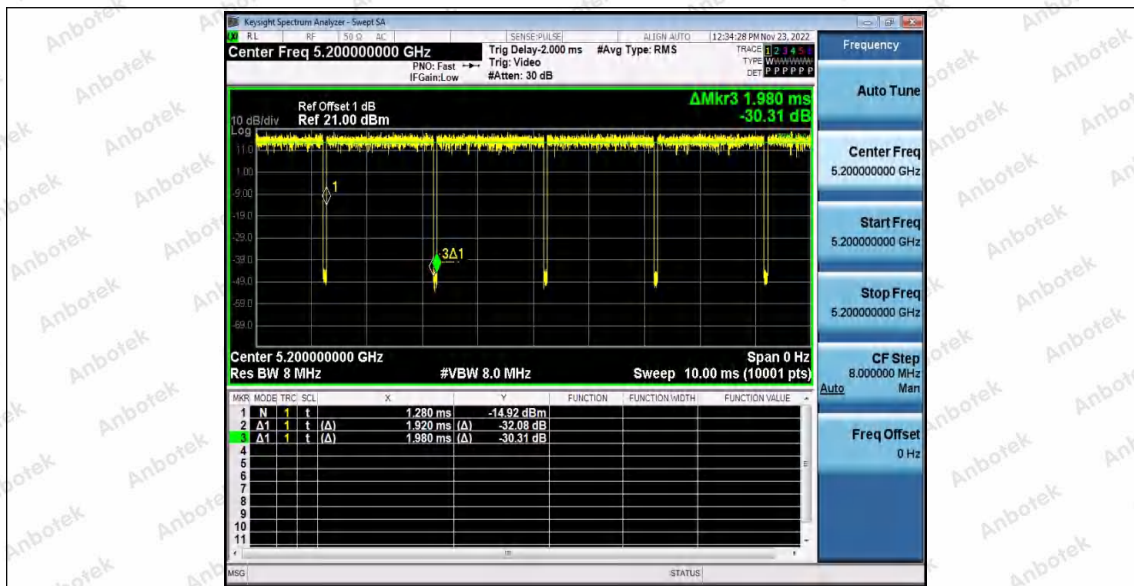
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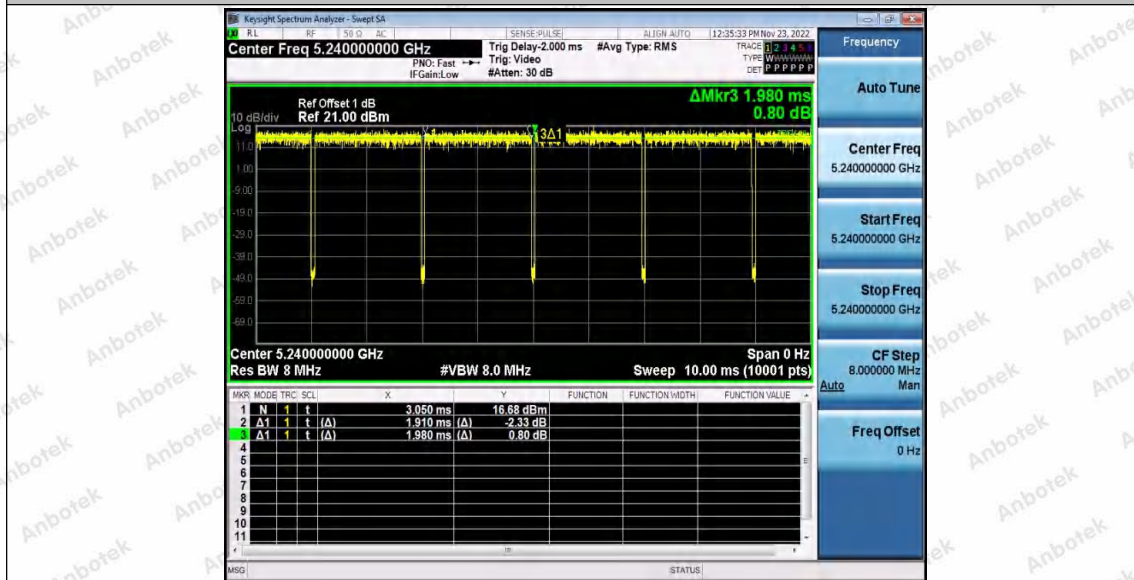


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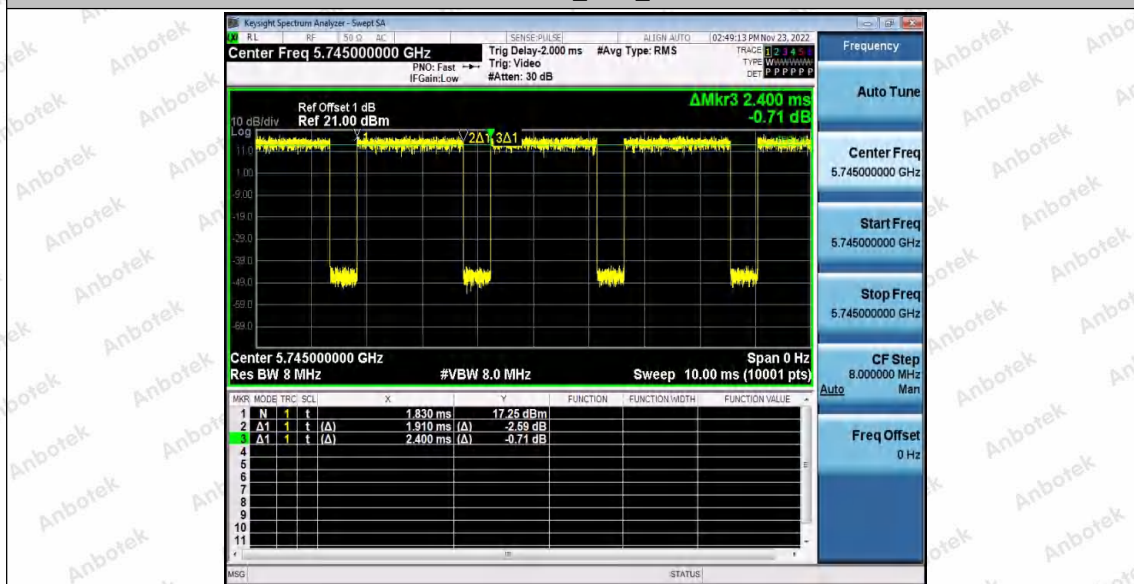




11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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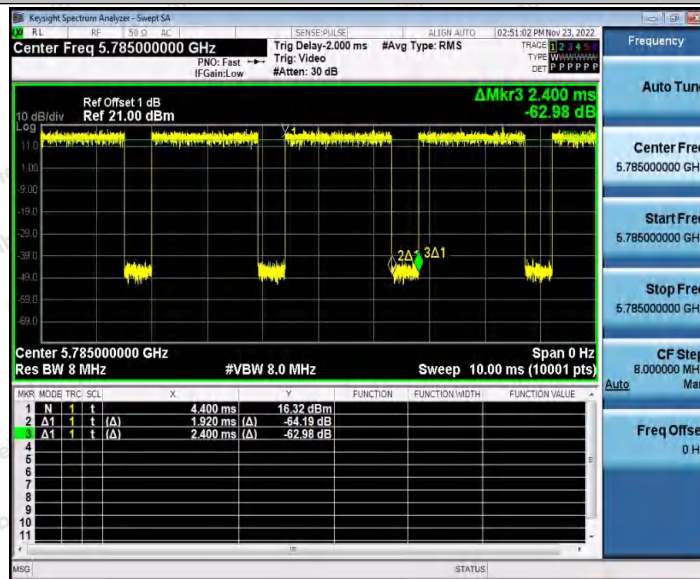
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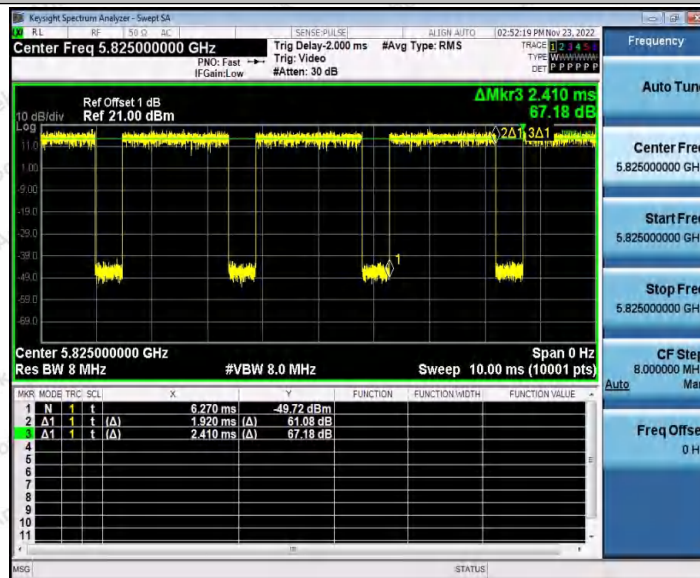
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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

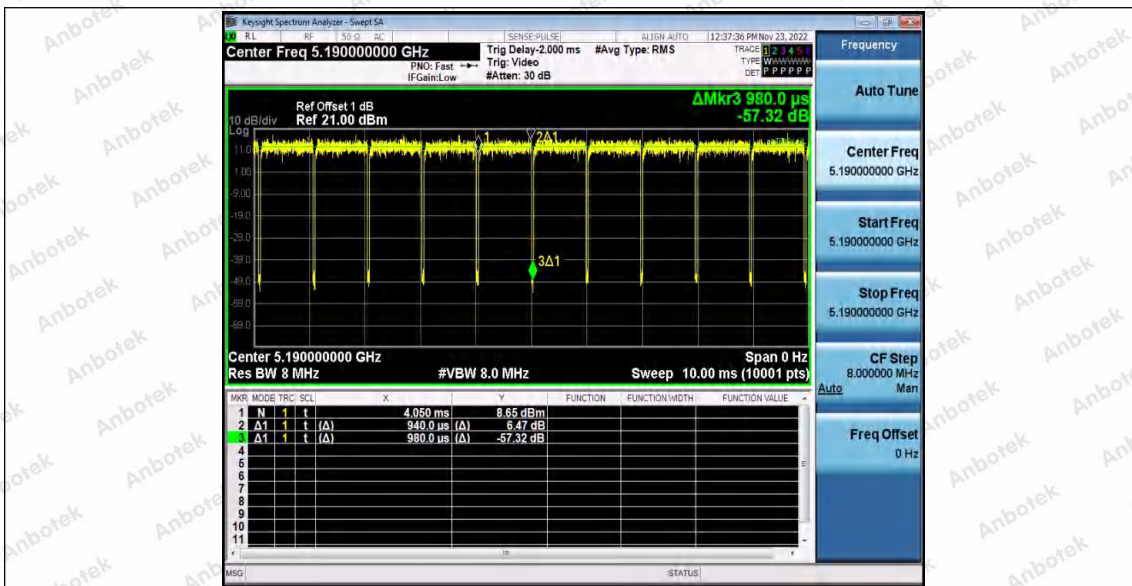
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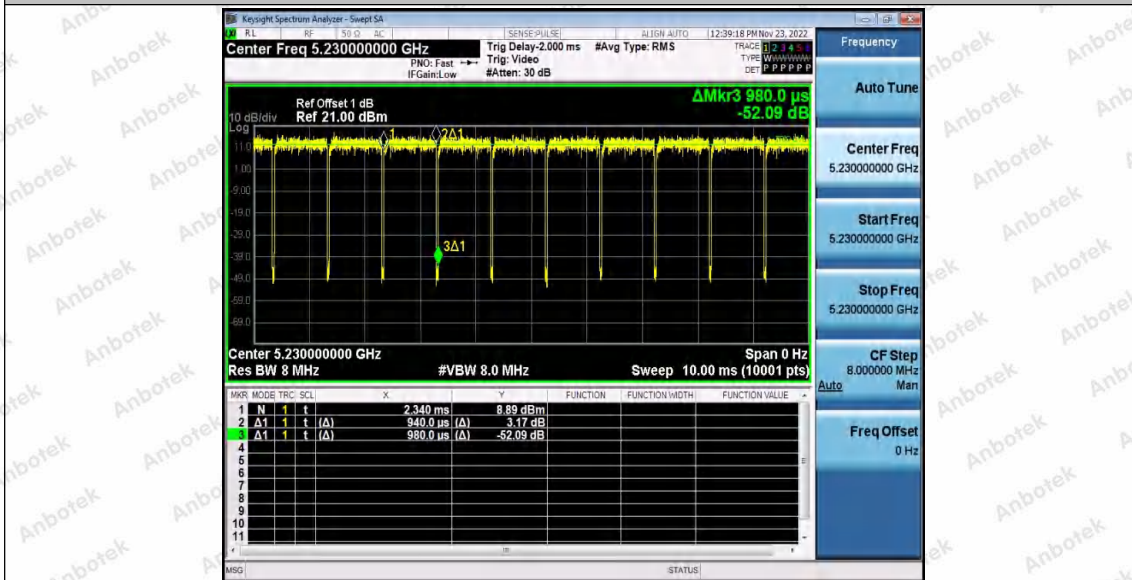


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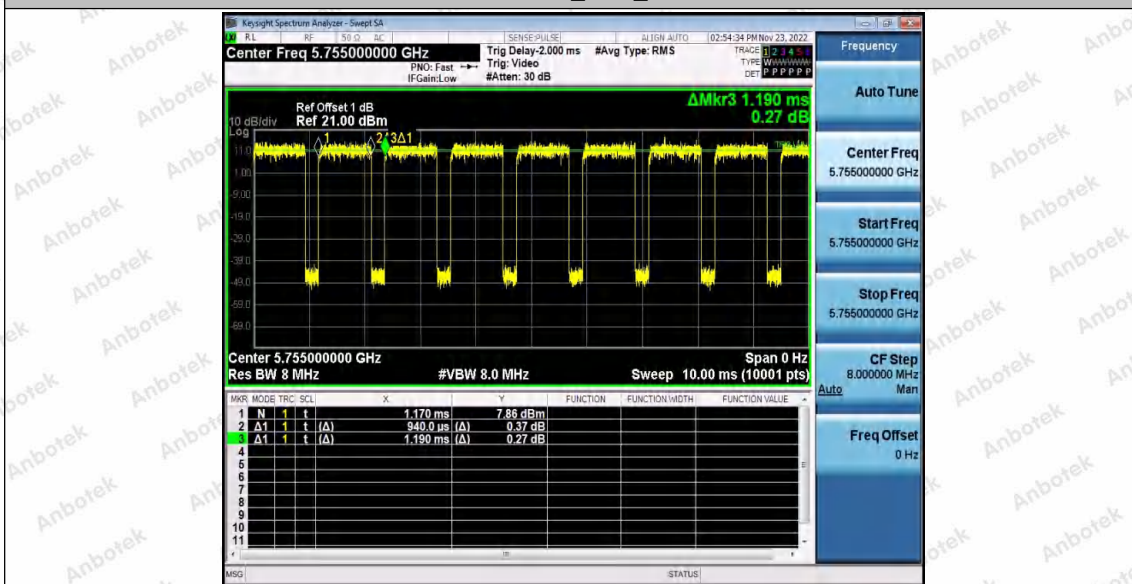




11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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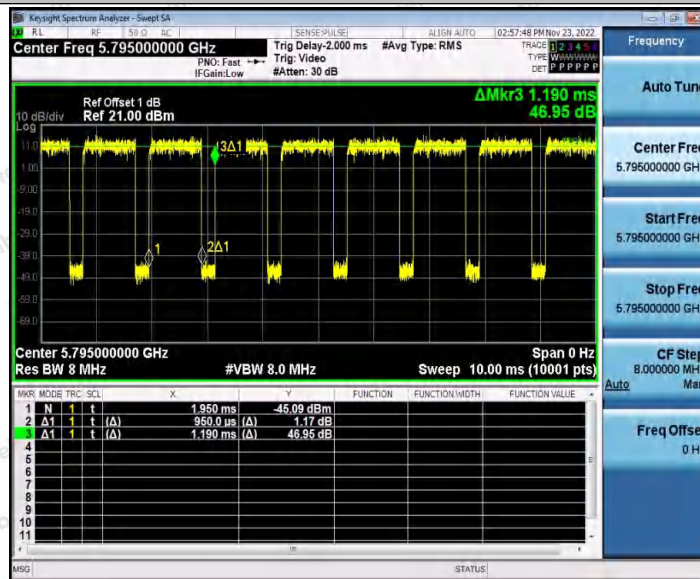
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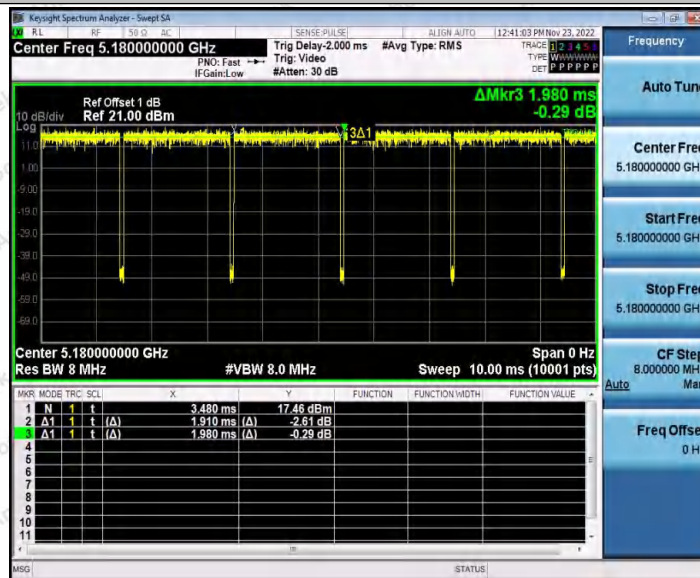
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

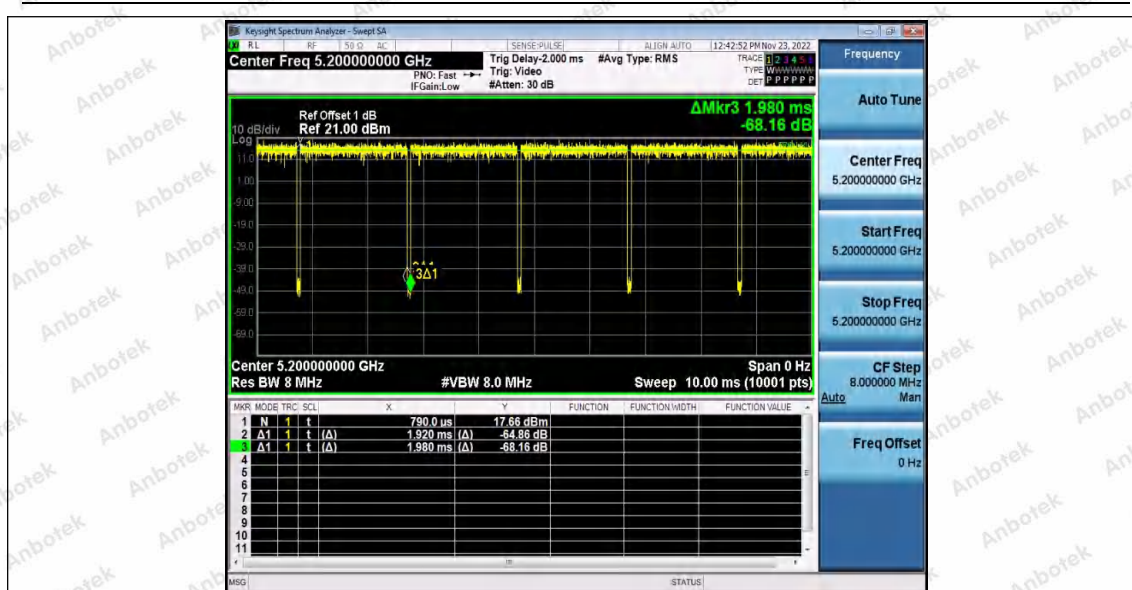
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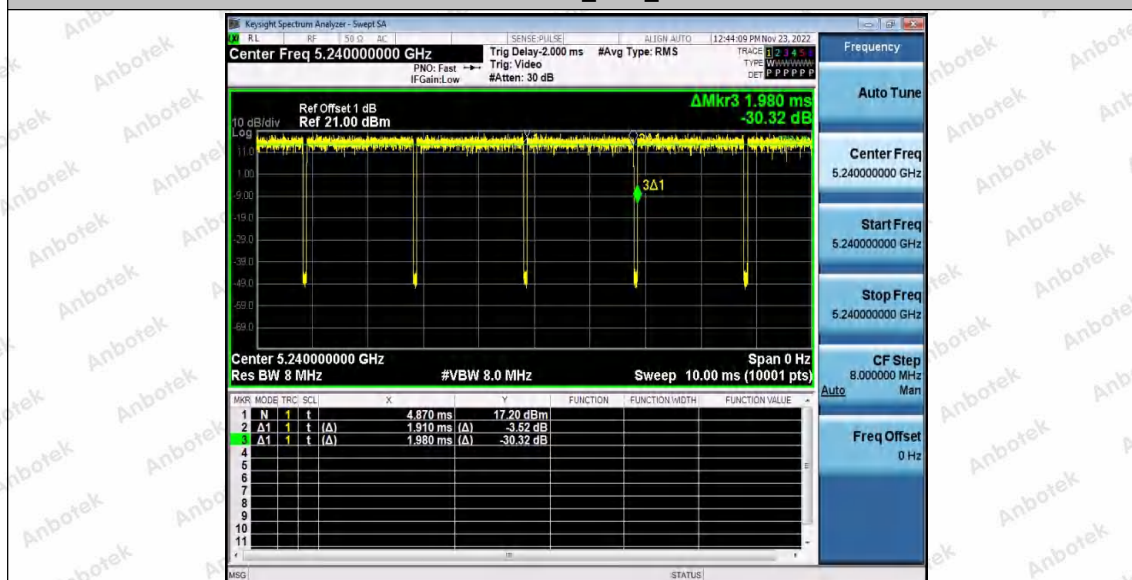


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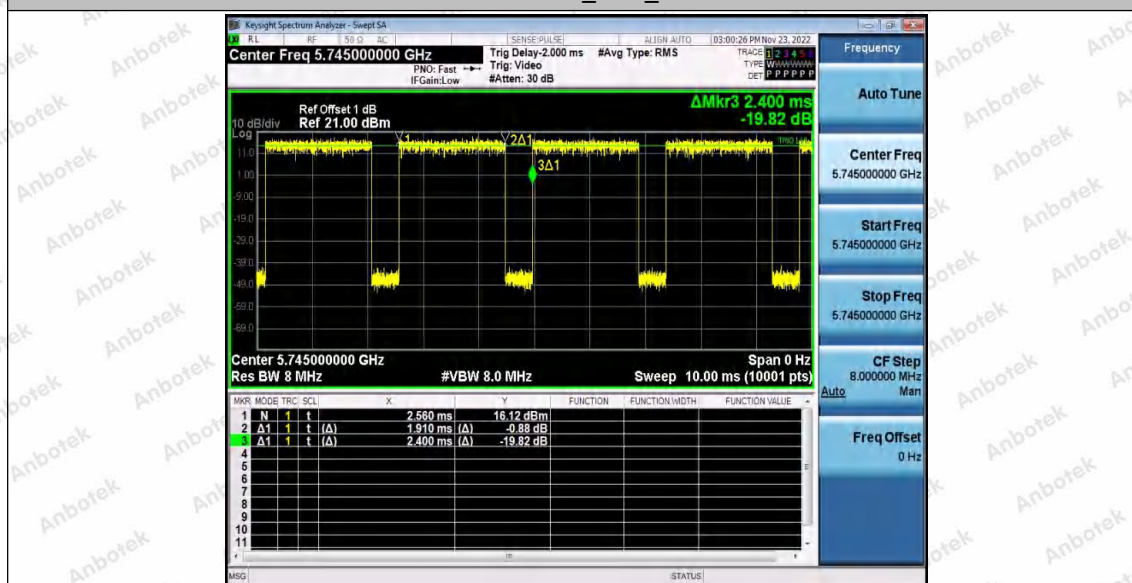




11AC20SISO Ant1 5240



11AC20SISO Ant1 5745



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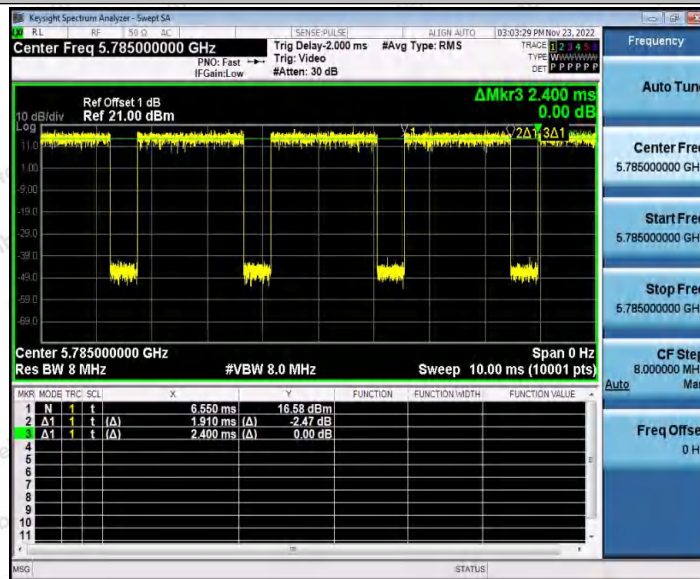
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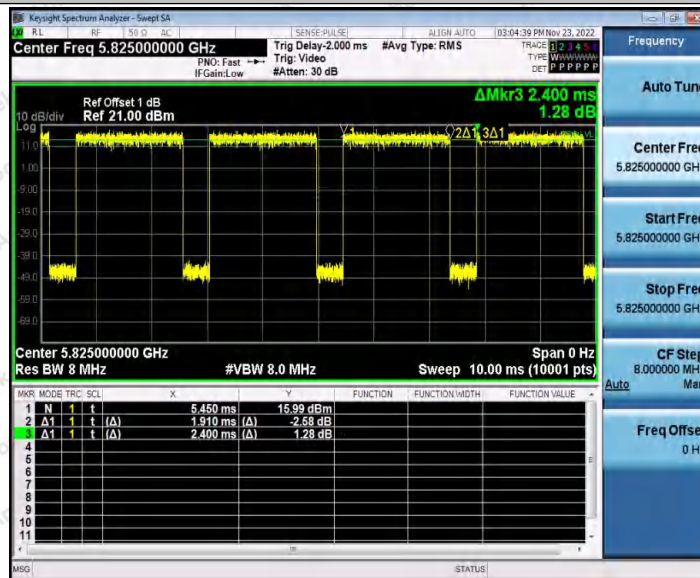
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190

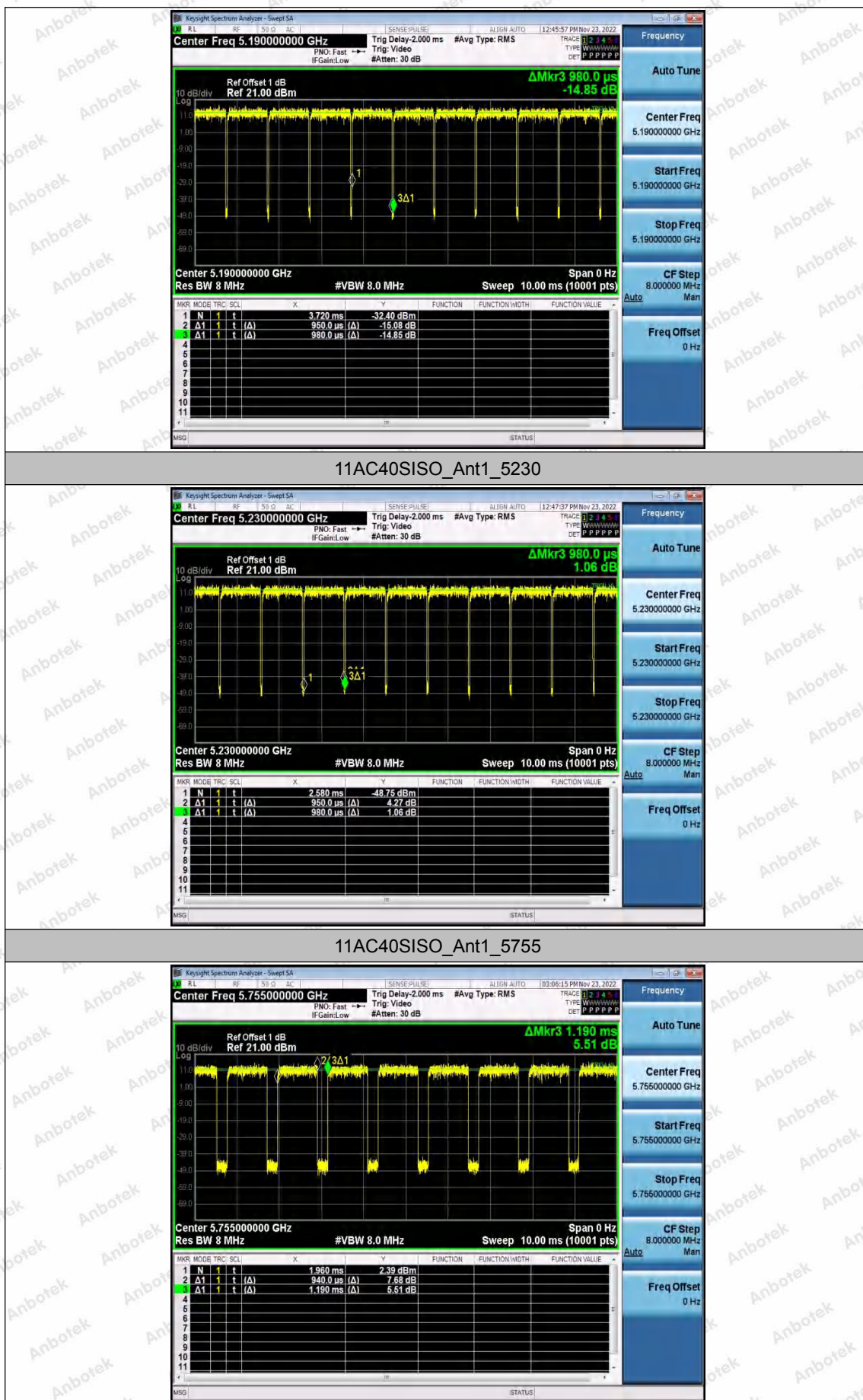
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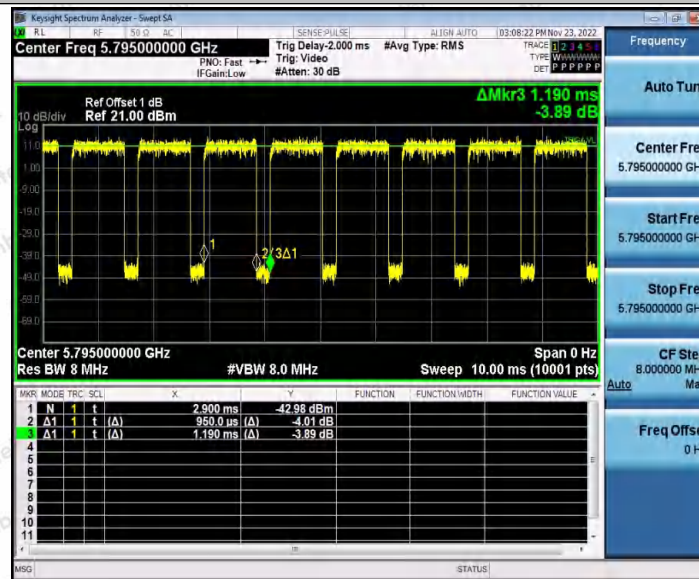
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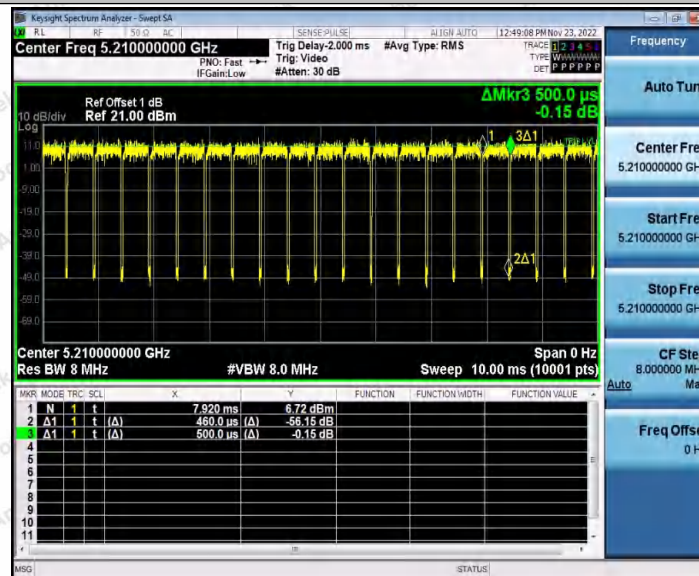
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

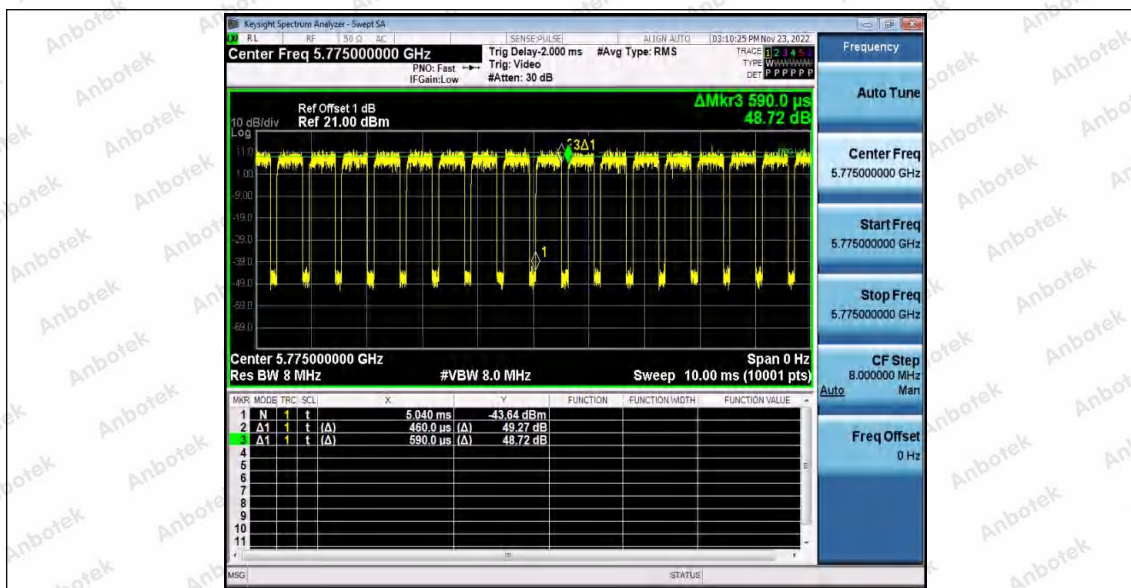
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Appendix C: Maximum conducted output power

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	---	18.80	96.46	0.16	18.96	≤23.98
		5200	---	18.71	96.46	0.16	18.87	≤23.98
		5240	---	18.60	96.46	0.16	18.76	≤23.98
		5745	---	18.06	80.00	0.97	19.03	≤30.00
		5785	---	18.35	79.58	0.99	19.34	≤30.00
		5825	---	18.15	80.00	0.97	19.12	≤30.00
11N20 SISO	Ant1	5180	---	19.16	96.48	0.16	19.32	≤23.98
		5200	---	19.02	96.97	0.13	19.15	≤23.98
		5240	---	18.64	96.46	0.16	18.80	≤23.98
		5745	---	18.10	79.58	0.99	19.09	≤30.00
		5785	---	18.46	80.00	0.97	19.43	≤30.00
		5825	---	18.22	79.67	0.99	19.21	≤30.00
11N40 SISO	Ant1	5190	---	19.88	95.92	0.18	20.06	≤23.98
		5230	---	19.59	95.92	0.18	19.77	≤23.98
		5755	---	18.70	78.99	1.02	19.72	≤30.00
		5795	---	18.39	79.83	0.98	19.37	≤30.00
11AC20 SISO	Ant1	5180	---	18.88	96.46	0.16	19.04	≤23.98
		5200	---	18.89	96.97	0.13	19.02	≤23.98
		5240	---	18.63	96.46	0.16	18.79	≤23.98
		5745	---	18.01	79.58	0.99	19.00	≤30.00
		5785	---	18.34	79.58	0.99	19.33	≤30.00
		5825	---	18.15	79.58	0.99	19.14	≤30.00
11AC40 SISO	Ant1	5190	---	19.95	96.94	0.13	20.08	≤23.98
		5230	---	19.57	96.94	0.13	19.70	≤23.98
		5755	---	18.51	78.99	1.02	19.53	≤30.00
		5795	---	18.16	79.83	0.98	19.14	≤30.00
11AC80 SISO	Ant1	5210	---	19.74	92.00	0.36	20.10	≤23.98
		5775	---	18.04	77.97	1.08	19.12	≤30.00

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



Appendix D: Maximum power spectral density

Test Result B1

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.22	≤11.00	PASS
		5200	3.24	≤11.00	PASS
		5240	3.23	≤11.00	PASS
11N20SISO	Ant1	5180	3.7	≤11.00	PASS
		5200	3.44	≤11.00	PASS
		5240	3.07	≤11.00	PASS
11N40SISO	Ant1	5190	0.97	≤11.00	PASS
		5230	0.44	≤11.00	PASS
11AC20SISO	Ant1	5180	3.29	≤11.00	PASS
		5200	3.41	≤11.00	PASS
		5240	3.26	≤11.00	PASS
11AC40SISO	Ant1	5190	0.69	≤11.00	PASS
		5230	0.36	≤11.00	PASS
11AC80SISO	Ant1	5210	-2.23	≤11.00	PASS

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

Test Result B4

Test Mode	Antenna	Frequency[MHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-0.34	≤30.00	PASS
		5785	0.21	≤30.00	PASS
		5825	-0.46	≤30.00	PASS
11N20SISO	Ant1	5745	0.01	≤30.00	PASS
		5785	0.3	≤30.00	PASS
		5825	-0.15	≤30.00	PASS
11N40SISO	Ant1	5755	-2.86	≤30.00	PASS
		5795	-3.24	≤30.00	PASS
11AC20SISO	Ant1	5745	-0.27	≤30.00	PASS
		5785	0.31	≤30.00	PASS
		5825	0	≤30.00	PASS
11AC40SISO	Ant1	5755	-3.15	≤30.00	PASS
		5795	-3.37	≤30.00	PASS
11AC80SISO	Ant1	5775	-6.4	≤30.00	PASS

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



Test Graphs B1



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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

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11AC20SISO_Ant1_5180

11AC20SISO_Ant1_5200

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11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

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Test Graphs B4

11A_Ant1_5745





11A_Ant1_5785



11A_Ant1_5825



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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

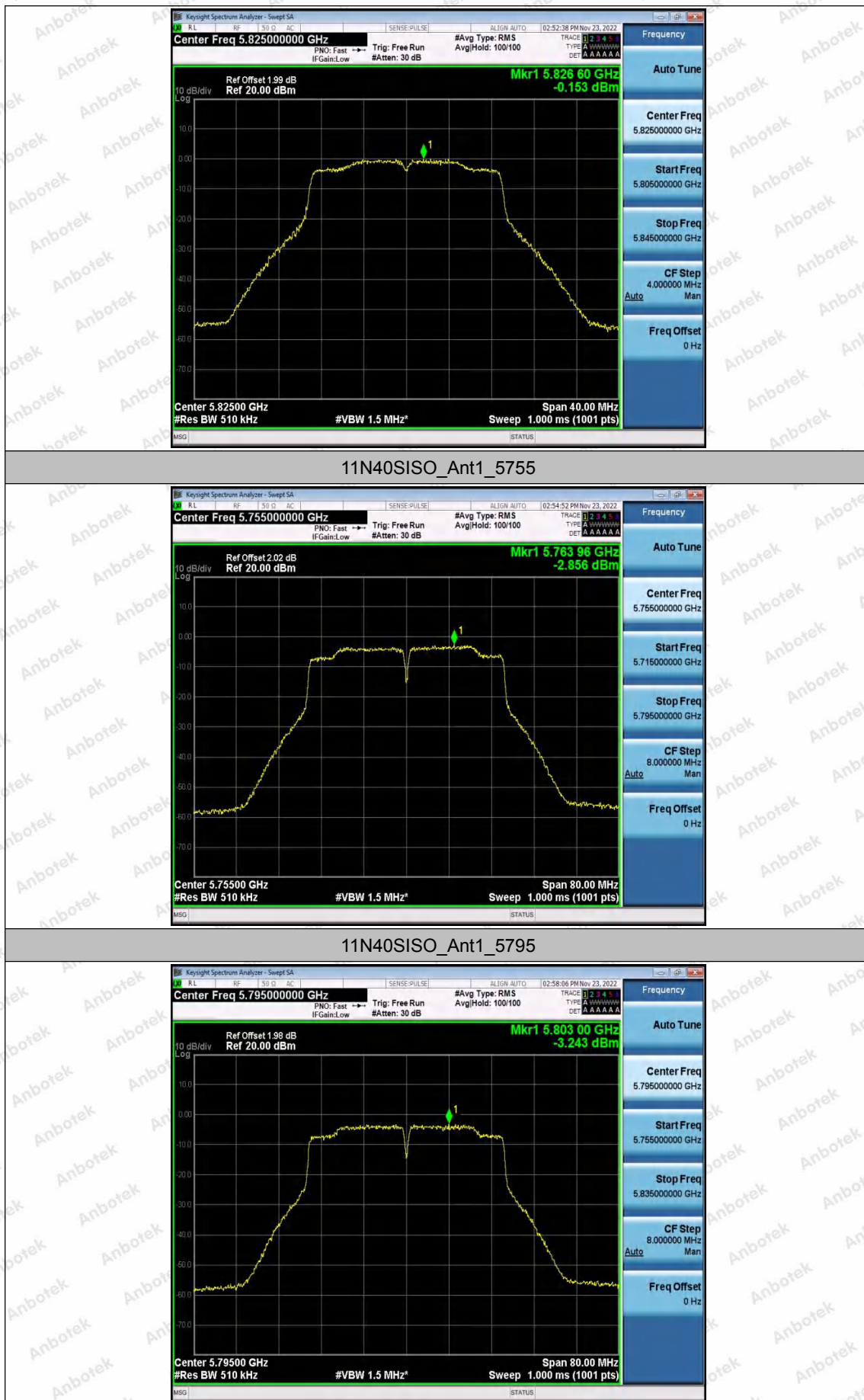
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11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



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Appendix E: Band edge measurements

Test Result B1

Test Mode	Antenna	Ch Name	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-52.94	≤-27	PASS
		High	5240	-55.82	≤-27	PASS
11N20SISO	Ant1	Low	5180	-52.79	≤-27	PASS
		High	5240	-54.42	≤-27	PASS
11N40SISO	Ant1	Low	5190	-51.97	≤-27	PASS
		High	5230	-55.31	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-52.64	≤-27	PASS
		High	5240	-55.05	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-50.96	≤-27	PASS
		High	5230	-55.53	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-49.73	≤-27	PASS
		High	5210	-54.5	≤-27	PASS

Test Result B4

Test Mode	Antenna	Ch Name	Frequency [MHz]	Freq Range [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-55.71	≤-19.81	PASS
				5700~5720	-52.47	≤14.21	PASS
				5720~5725	-47.35	≤26.83	PASS
				5760~5650	-57.57	≤-27	PASS
		High	5825	5850~5855	-55.73	≤21.95	PASS
				5855~5875	-55.71	≤14.33	PASS
				5875~5925	-56.26	≤-24.26	PASS
				5925~5935	-57.18	≤-27	PASS
11N20 SISO	Ant1	Low	5745	5650~5700	-56.04	≤2.57	PASS
				5700~5720	-55.63	≤10.96	PASS
				5720~5725	-53.63	≤25.26	PASS
				5760~5650	-57.67	≤-27	PASS
		High	5825	5850~5855	-54.43	≤16.41	PASS
				5855~5875	-56.3	≤13.01	PASS
				5875~5925	-55.91	≤-8.97	PASS
				5925~5935	-58.27	≤-27	PASS
11N40 SISO	Ant1	Low	5755	5650~5700	-55.44	≤1.17	PASS
				5700~5720	-53.98	≤15.05	PASS
				5720~5725	-52.06	≤25.28	PASS
				5780~5650	-57.43	≤-27	PASS
		High	5795	5850~5855	-56.66	≤16.79	PASS

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				5855~5875	-55.68	≤ 12.16	PASS
				5875~5925	-55.43	≤ 2.99	PASS
				5925~5935	-57.26	≤ -27	PASS
11AC20 SISO	Ant1	Low	5745	5650~5700	-56.59	≤ -10.53	PASS
				5700~5720	-53.26	≤ 14.18	PASS
				5720~5725	-53.73	≤ 26.04	PASS
				5760~5650	-57.16	≤ -27	PASS
		High	5825	5850~5855	-55.75	≤ 23.18	PASS
				5855~5875	-55.71	≤ 10.25	PASS
				5875~5925	-55.96	≤ -3.18	PASS
				5925~5935	-58.16	≤ -27	PASS
11AC40 SISO	Ant1	Low	5755	5650~5700	-55.43	≤ -8.72	PASS
				5700~5720	-53.85	≤ 12.78	PASS
				5720~5725	-53.24	≤ 26.82	PASS
				5780~5650	-57.01	≤ -27	PASS
		High	5795	5850~5855	-55.05	≤ 22.43	PASS
				5855~5875	-56.1	≤ 12.44	PASS
				5875~5925	-56.78	≤ -2.01	PASS
				5925~5935	-56.91	≤ -27	PASS
11AC80 SISO	Ant1	Low	5775	5650~5700	-53.53	≤ -2.03	PASS
				5700~5720	-50.57	≤ 15.52	PASS
				5720~5725	-43.43	≤ 26.25	PASS
				5800~5650	-57.26	≤ -27	PASS
		High	5775	5850~5855	-52.18	≤ 21.28	PASS
				5855~5875	-50.44	≤ 11.73	PASS
				5875~5925	-55.18	≤ -21.48	PASS
				5925~5935	-57.87	≤ -27	PASS

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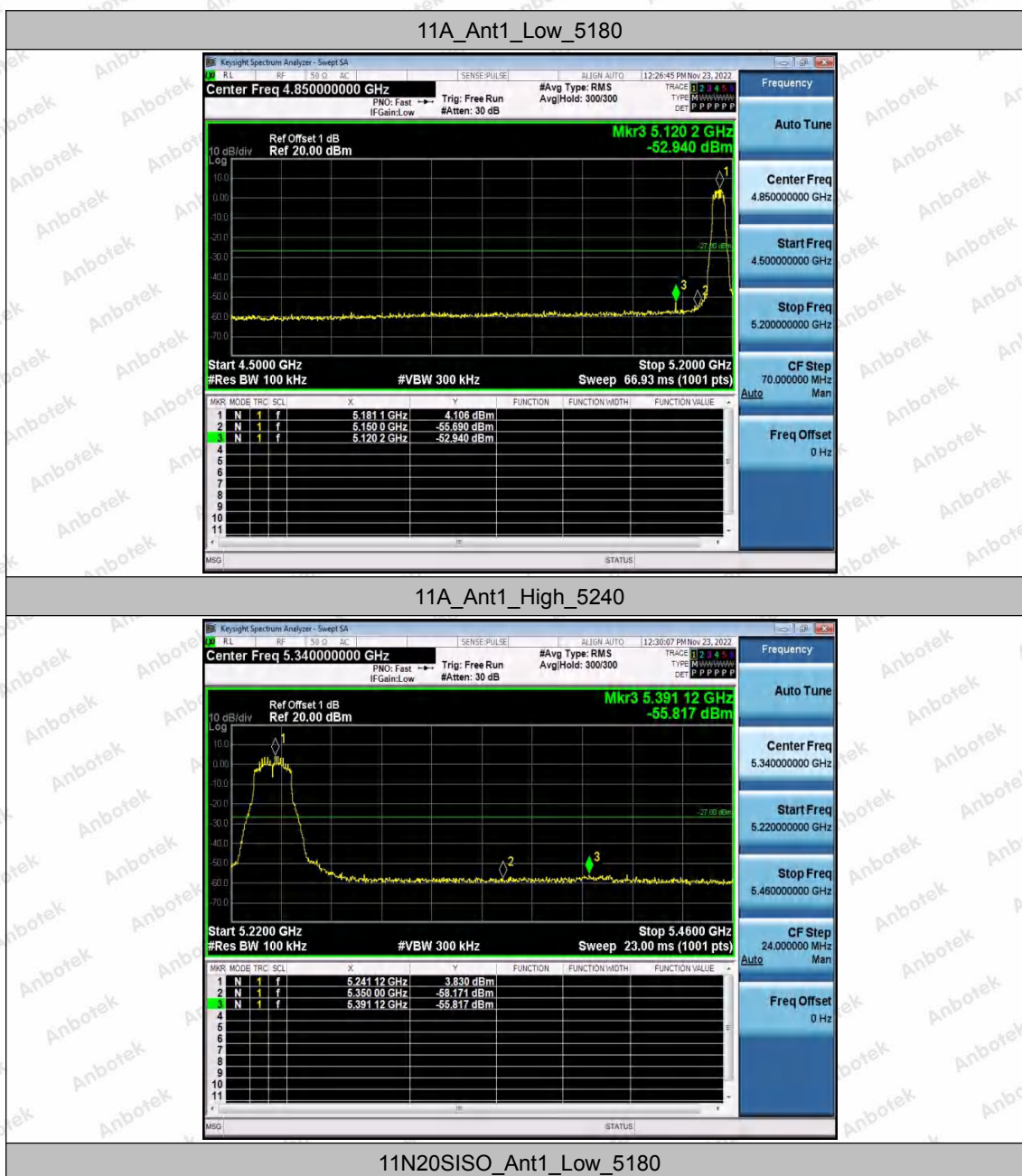
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Test Graphs B1/2/3



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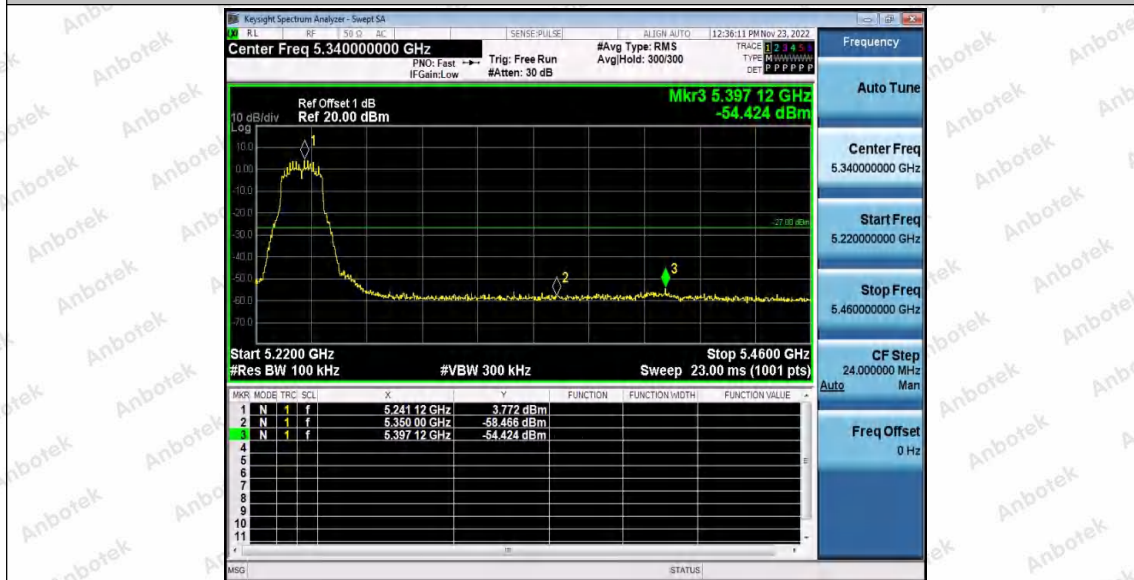


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11N20ISO_Ant1_High_5240



11N40ISO_Ant1_Low_5190



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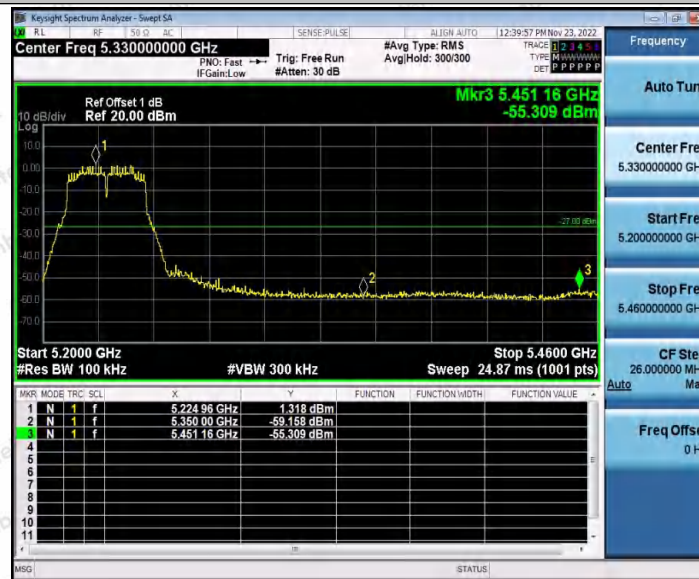
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



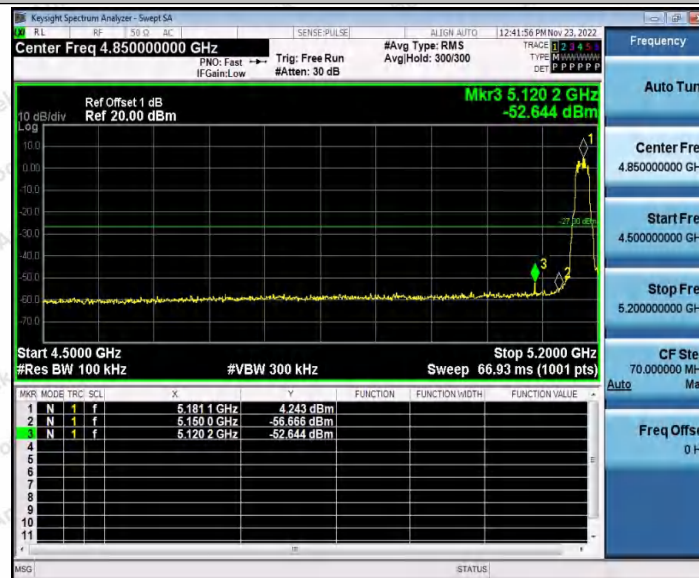
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11N40SISO_Ant1_High_5230



11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240

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11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



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11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



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Test Graphs B4



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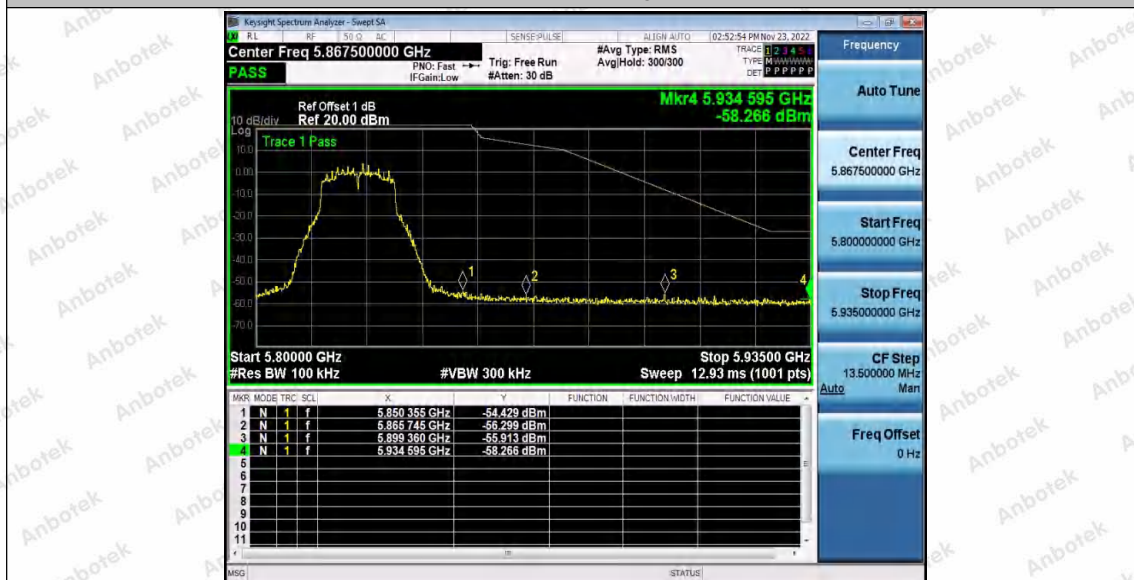


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11N20ISO_Ant1_High_5825



11N40ISO_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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11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



---End---

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