

Appendix Test Data

Report No:	18220WC20178902	Test Sample NO:	1-2-2
Start Test Date :	2022.8.8	Finish Test Date:	2022.8.18
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3C°	Relative Humidity:	48%
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	20.120	5169.880	5190.000	---	PASS
		5200	19.600	5190.240	5209.840	---	PASS
		5240	20.200	5229.840	5250.040	---	PASS
		5745	20.480	5734.800	5755.280	---	PASS
		5785	20.080	5775.040	5795.120	---	PASS
		5825	20.520	5814.960	5835.480	---	PASS
11N20SISO	Ant1	5180	20.880	5169.760	5190.640	---	PASS
		5200	20.840	5189.800	5210.640	---	PASS
		5240	20.760	5229.400	5250.160	---	PASS
		5745	20.720	5734.640	5755.360	---	PASS
		5785	20.560	5774.800	5795.360	---	PASS
		5825	20.920	5814.600	5835.520	---	PASS
11N40SISO	Ant1	5190	40.640	5170.000	5210.640	---	PASS
		5230	39.680	5210.240	5249.920	---	PASS
		5755	42.320	5733.640	5775.960	---	PASS
		5795	39.520	5775.240	5814.760	---	PASS
11AC20SISO	Ant1	5180	21.480	5168.960	5190.440	---	PASS
		5200	20.800	5189.640	5210.440	---	PASS
		5240	20.880	5229.720	5250.600	---	PASS
		5745	21.600	5734.440	5756.040	---	PASS
		5785	20.840	5774.720	5795.560	---	PASS
		5825	21.200	5814.360	5835.560	---	PASS
11AC40SISO	Ant1	5190	41.520	5169.600	5211.120	---	PASS
		5230	40.800	5210.000	5250.800	---	PASS
		5755	42.080	5734.120	5776.200	---	PASS
		5795	41.600	5774.200	5815.800	---	PASS
11AC80SISO	Ant1	5210	80.480	5170.000	5250.480	---	PASS
		5775	80.640	5734.680	5815.320	---	PASS



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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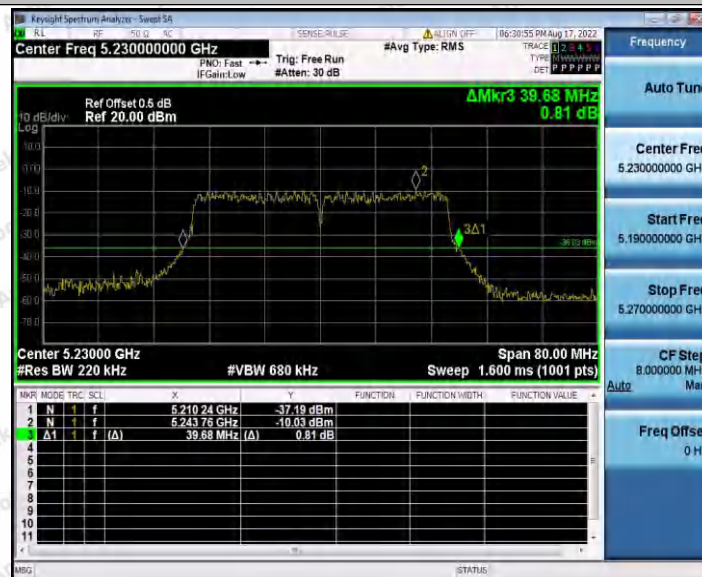


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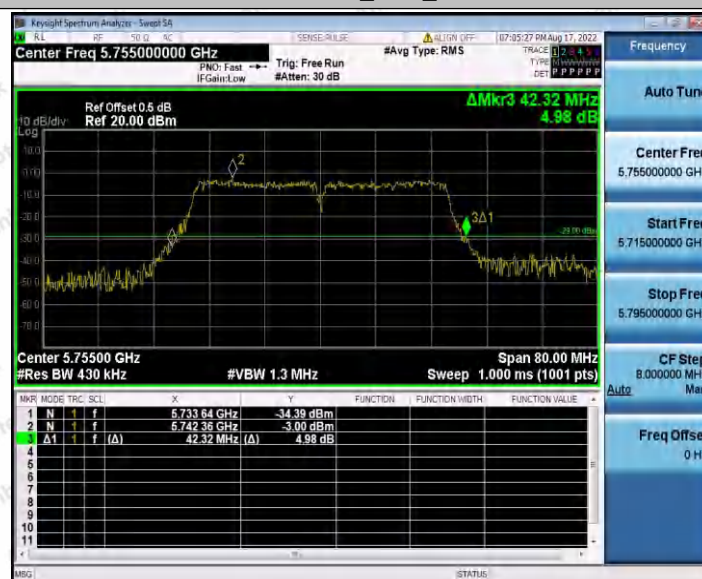




11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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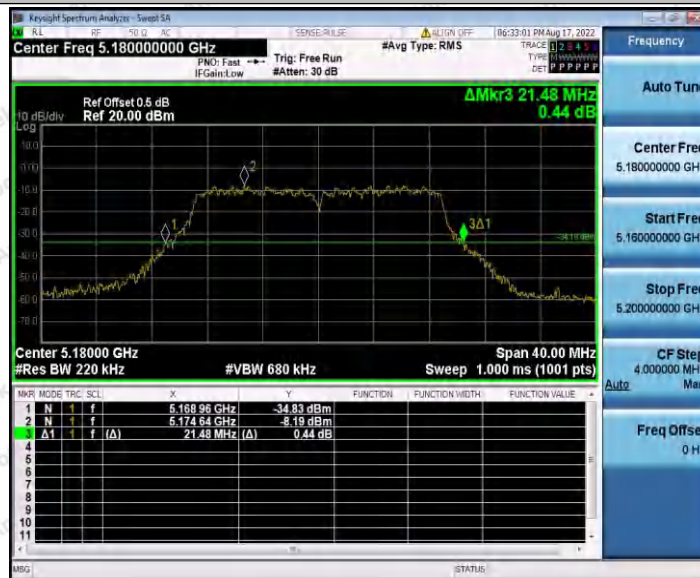
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

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11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5240



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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190





11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5230



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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

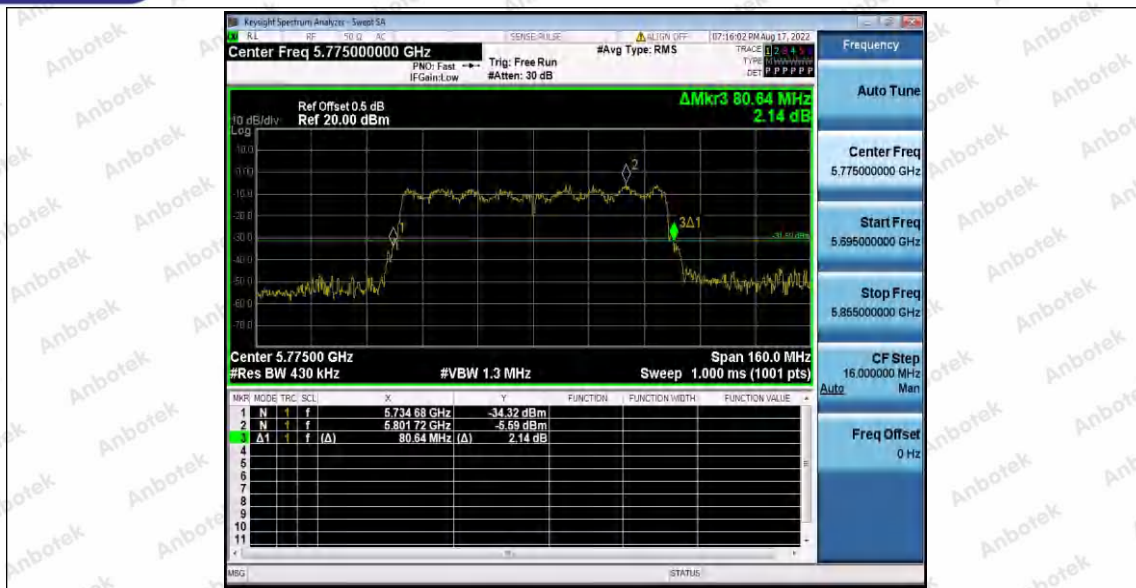
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Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.882	5171.5847	5188.4667	---	PASS
		5200	16.827	5191.6714	5208.4984	---	PASS
		5240	16.838	5231.6102	5248.4482	---	PASS
		5745	16.804	5736.6424	5753.4464	---	PASS
		5785	16.892	5776.6111	5793.5031	---	PASS
		5825	16.831	5816.6478	5833.4788	---	PASS
11N20SISO	Ant1	5180	17.924	5171.1046	5189.0286	---	PASS
		5200	17.947	5191.0648	5209.0118	---	PASS
		5240	17.866	5231.0648	5248.9308	---	PASS
		5745	17.843	5736.1063	5753.9493	---	PASS
		5785	17.897	5776.0554	5793.9524	---	PASS
		5825	17.879	5816.0831	5833.9621	---	PASS
11N40SISO	Ant1	5190	36.187	5171.9997	5208.1867	---	PASS
		5230	36.276	5211.9810	5248.2570	---	PASS
		5755	36.346	5736.8974	5773.2434	---	PASS
		5795	36.311	5776.9023	5813.2133	---	PASS
11AC20SISO	Ant1	5180	17.980	5170.9881	5188.9681	---	PASS
		5200	17.870	5191.1327	5209.0027	---	PASS
		5240	17.931	5231.0800	5249.0110	---	PASS
		5745	17.944	5736.0637	5754.0077	---	PASS
		5785	17.851	5776.0822	5793.9332	---	PASS
		5825	17.904	5816.0412	5833.9452	---	PASS
11AC40SISO	Ant1	5190	36.914	5171.6575	5208.5715	---	PASS
		5230	36.492	5211.8485	5248.3405	---	PASS
		5755	36.565	5736.7474	5773.3124	---	PASS
		5795	36.426	5776.8490	5813.2750	---	PASS
11AC80SISO	Ant1	5210	75.884	5172.3109	5248.1949	---	PASS
		5775	75.738	5737.3934	5813.1314	---	PASS



Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240

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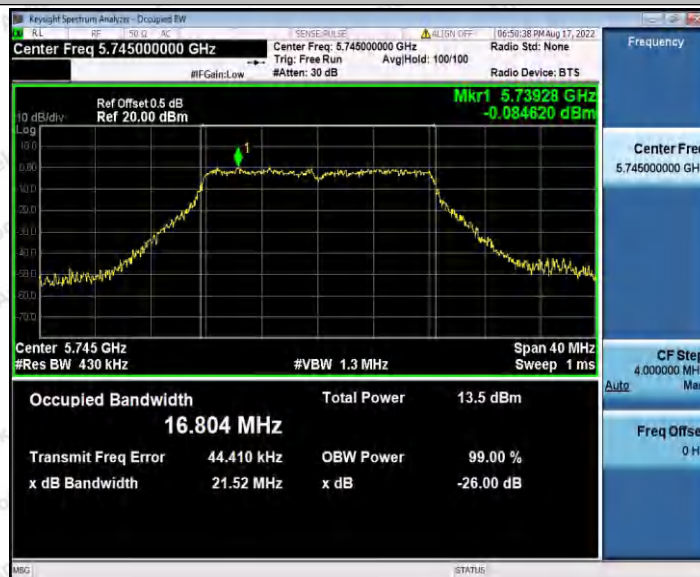


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11A_Ant1_5745



11A_Ant1_5785



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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

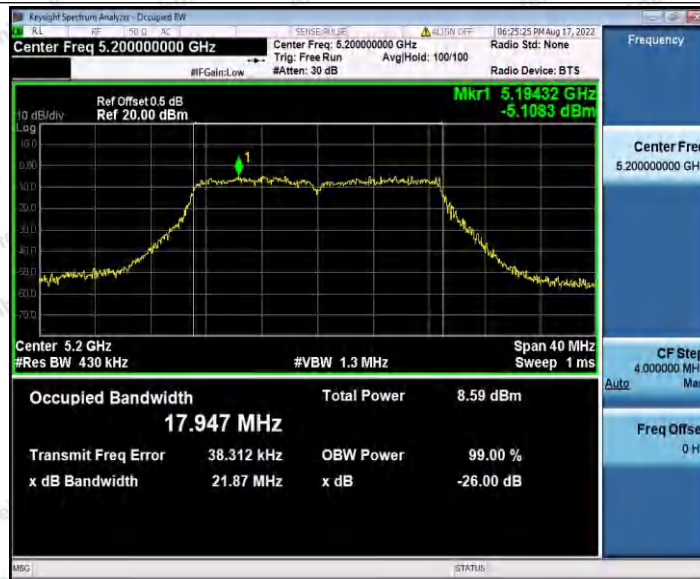
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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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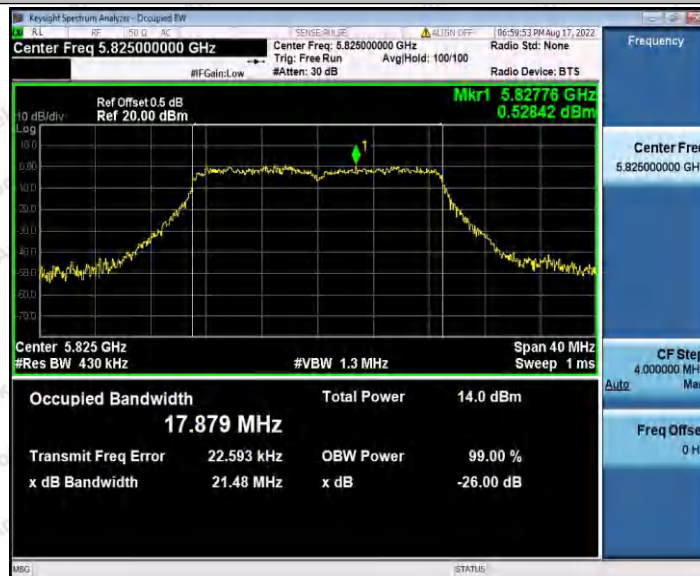
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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

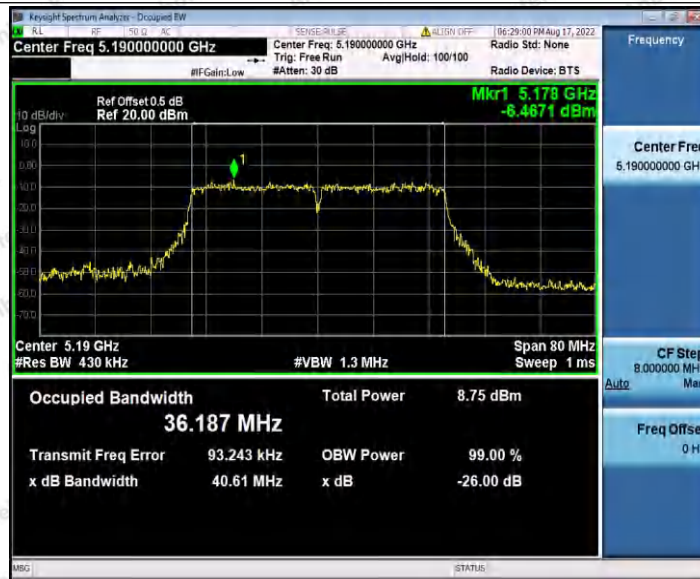
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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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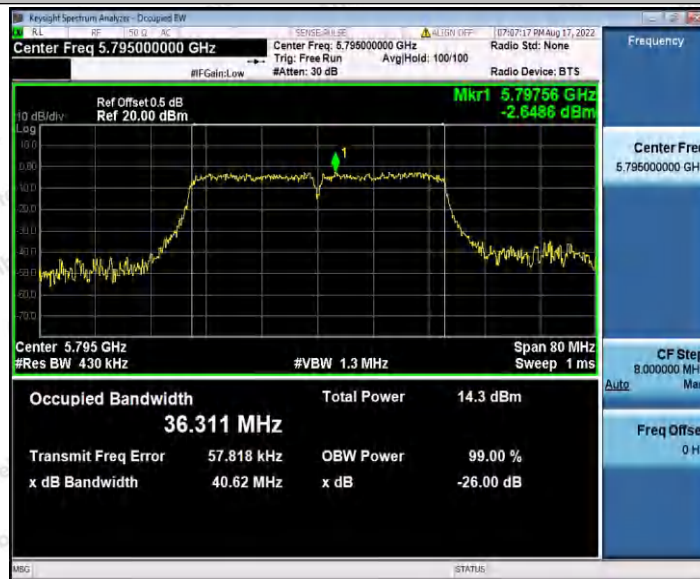
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11N40SISO_Ant1_5795



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

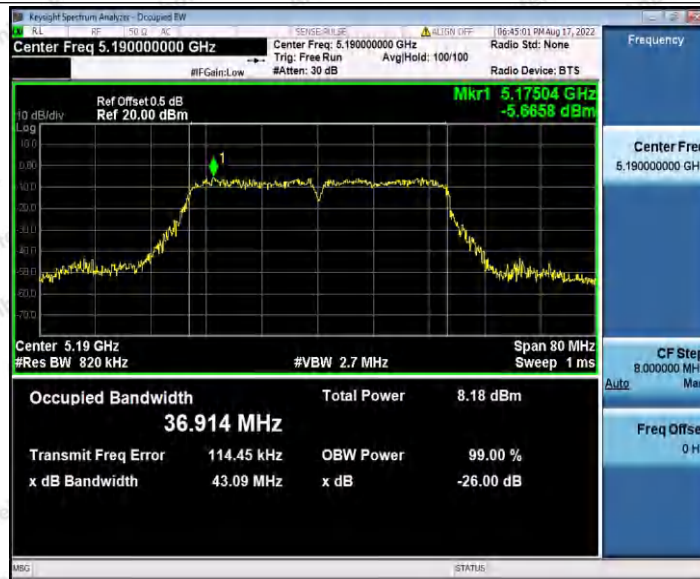
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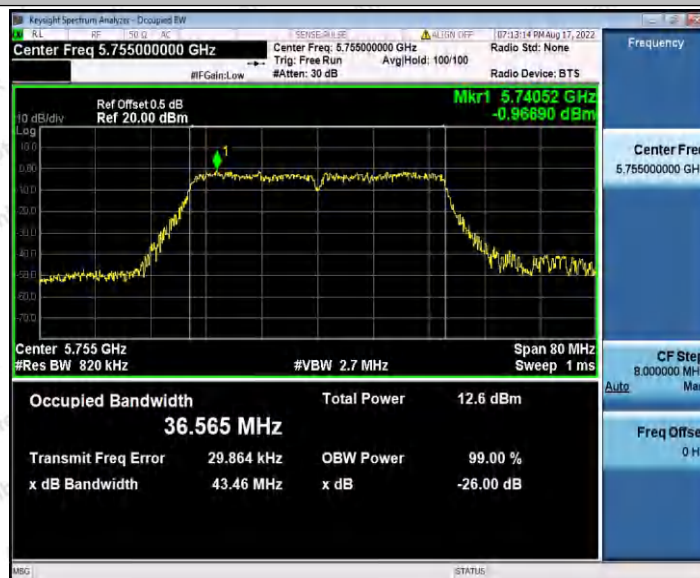




11AC40SISO_Ant1_5230



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

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.840	5753.200	0.5	PASS
		5785	16.400	5776.800	5793.200	0.5	PASS
		5825	16.120	5816.880	5833.000	0.5	PASS
11N20SISO	Ant1	5745	17.480	5736.240	5753.720	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.600	5816.160	5833.760	0.5	PASS
11N40SISO	Ant1	5755	35.920	5736.920	5772.840	0.5	PASS
		5795	35.920	5777.240	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.200	5736.280	5753.480	0.5	PASS
		5785	17.440	5776.320	5793.760	0.5	PASS
		5825	17.280	5816.480	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	35.440	5737.160	5772.600	0.5	PASS
		5795	35.440	5777.400	5812.840	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS



Test Graphs B4

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

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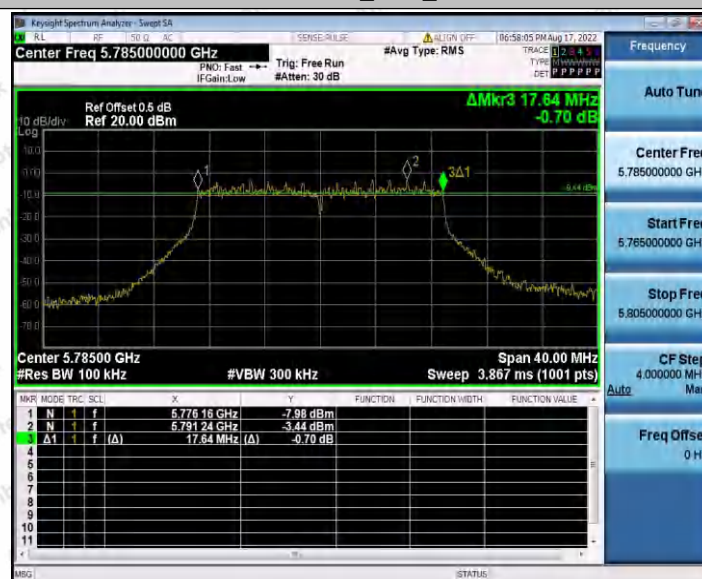




11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



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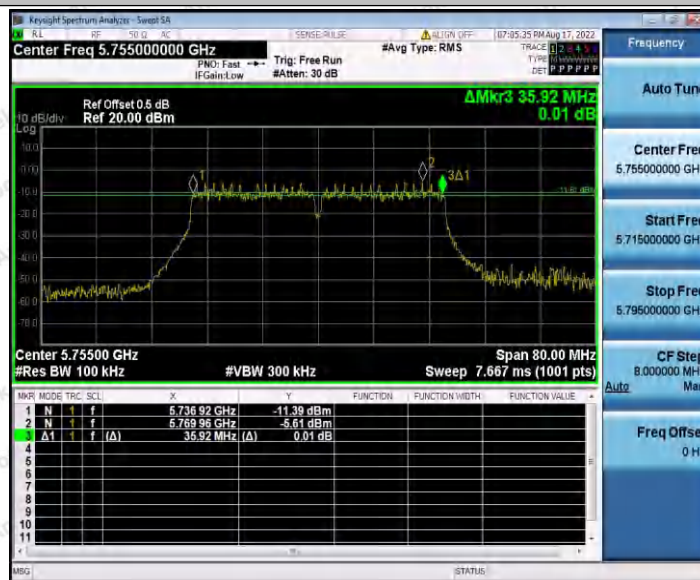
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

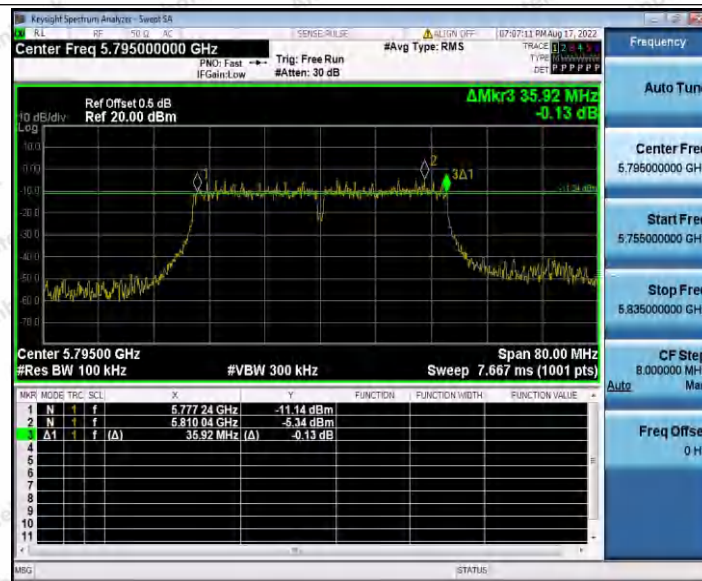
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11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



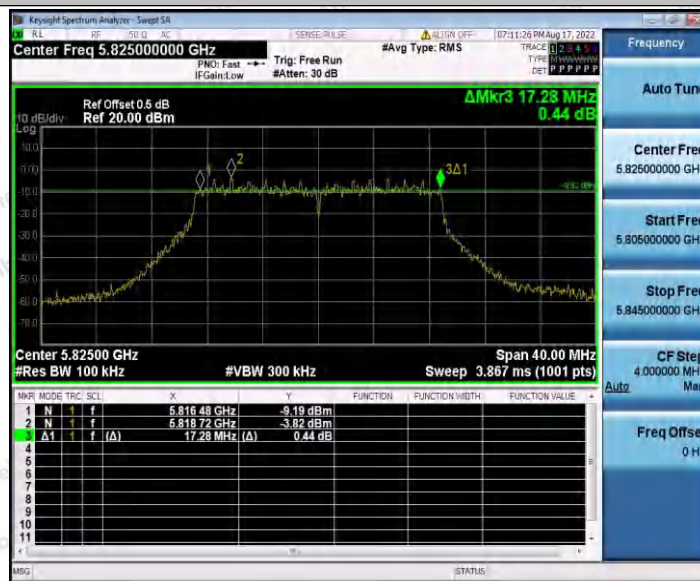
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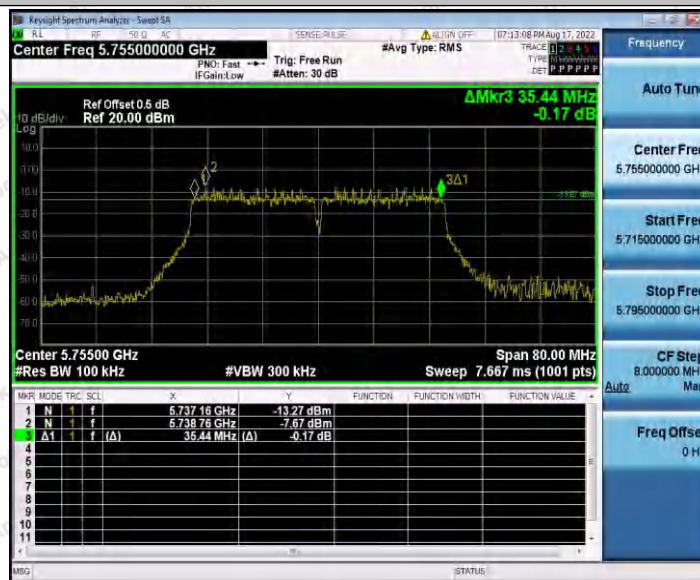
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11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

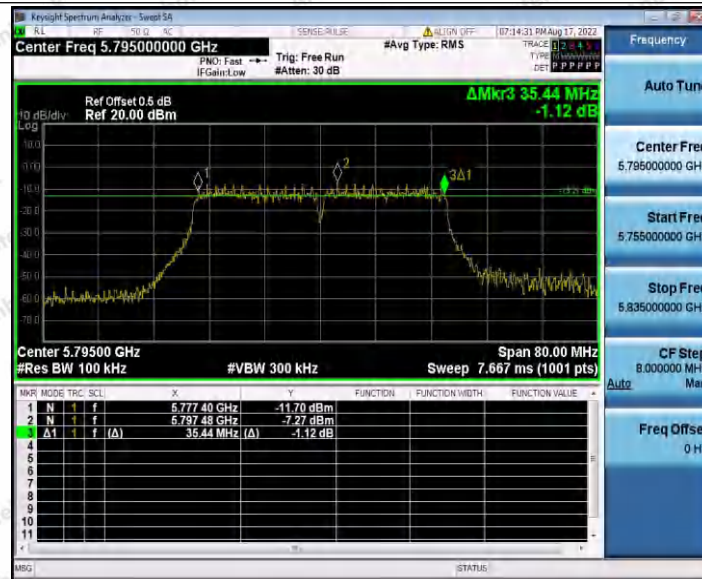
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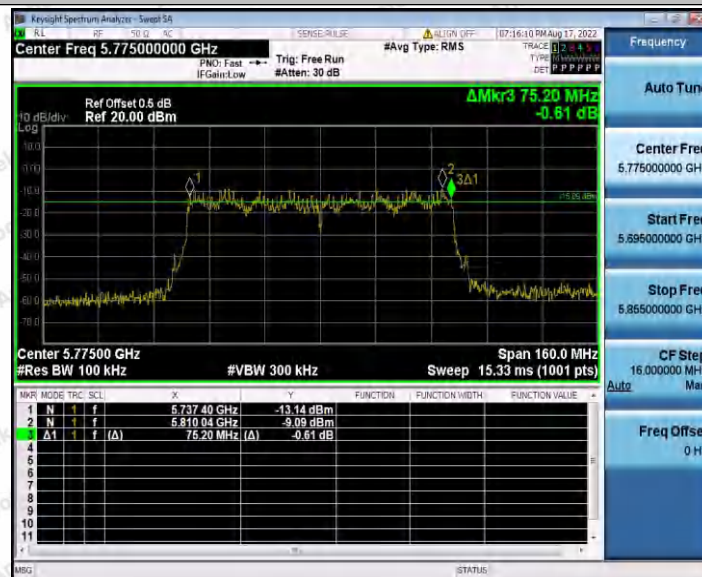


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11AC80SISO_Ant1_5775



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Appendix B: Duty Cycle

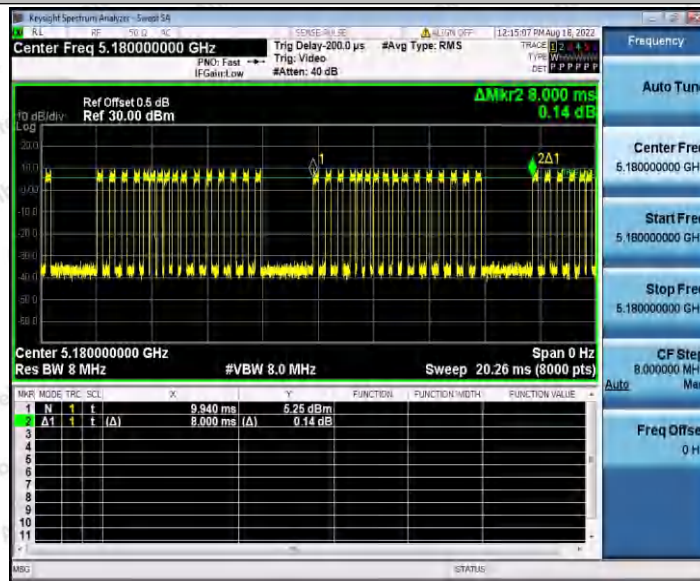
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	3.20	8.00	40.00
		5200	0.20	0.45	44.44
		5240	0.20	0.37	54.05
		5745	0.19	0.45	42.22
		5785	2.00	5.46	36.63
		5825	3.22	7.93	40.61
11N20SISO	Ant1	5180	3.20	8.13	39.36
		5200	3.21	7.97	40.28
		5240	3.21	8.06	39.83
		5745	0.60	2.91	20.62
		5785	0.20	0.45	44.44
		5825	0.20	0.46	43.48
11N40SISO	Ant1	5190	0.11	3.17	3.47
		5230	0.11	3.46	3.18
		5755	0.11	0.35	31.43
		5795	0.11	0.89	12.36
11AC20SISO	Ant1	5180	3.20	8.00	40.00
		5200	0.20	0.45	44.44
		5240	0.20	0.45	44.44
		5745	0.20	1.67	11.98
		5785	0.20	0.46	43.48
		5825	3.20	7.81	40.97
11AC40SISO	Ant1	5190	0.11	3.43	3.21
		5230	0.11	2.91	3.78
		5755	0.11	3.58	3.07
		5795	0.11	3.52	3.13
11AC80SISO	Ant1	5210	0.07	1.82	3.85
		5775	0.07	3.84	1.82

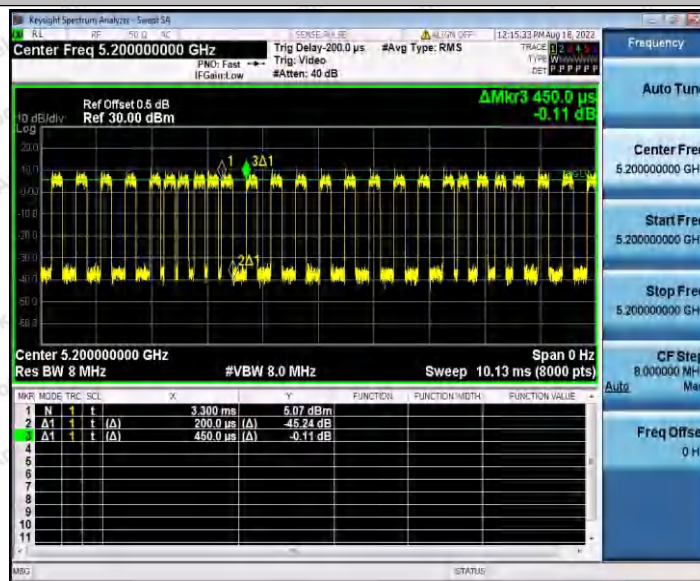


Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240

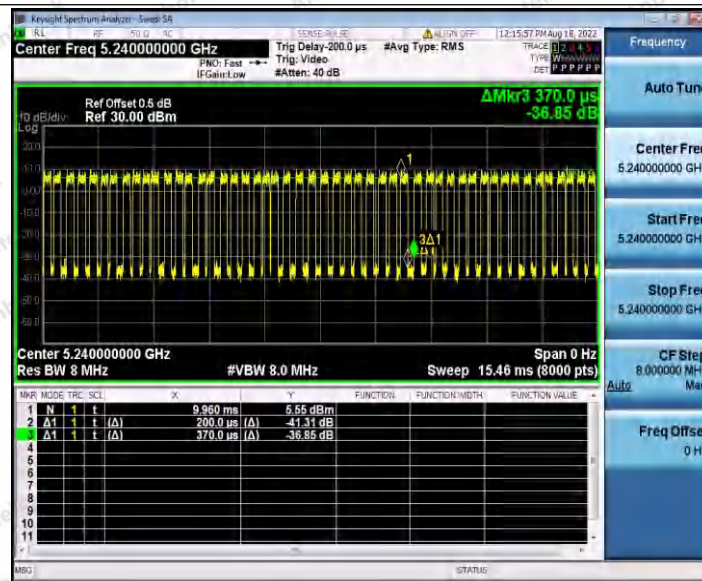
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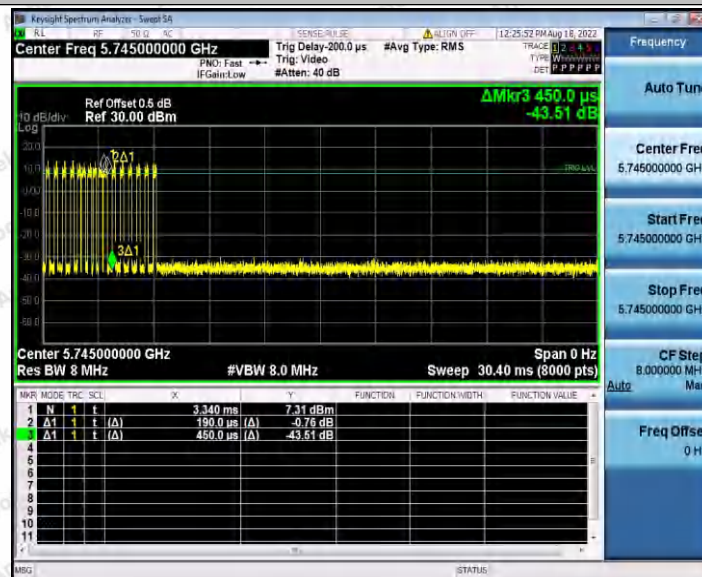


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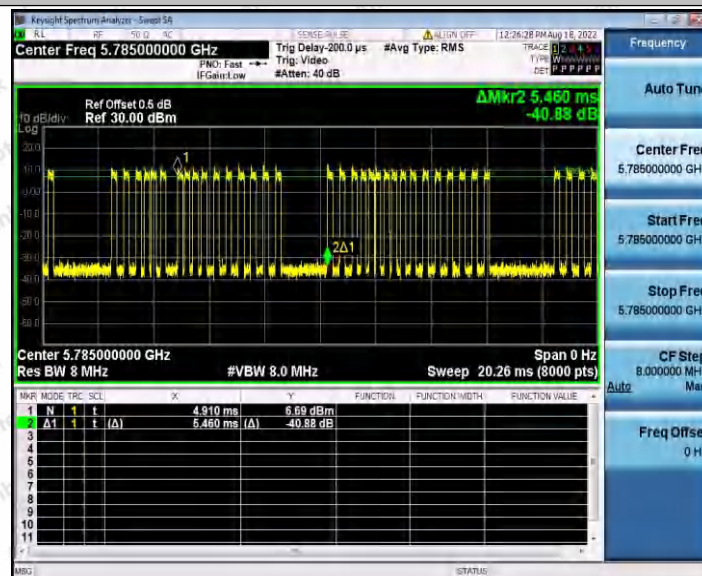




11A_Ant1_5745



11A_Ant1_5785



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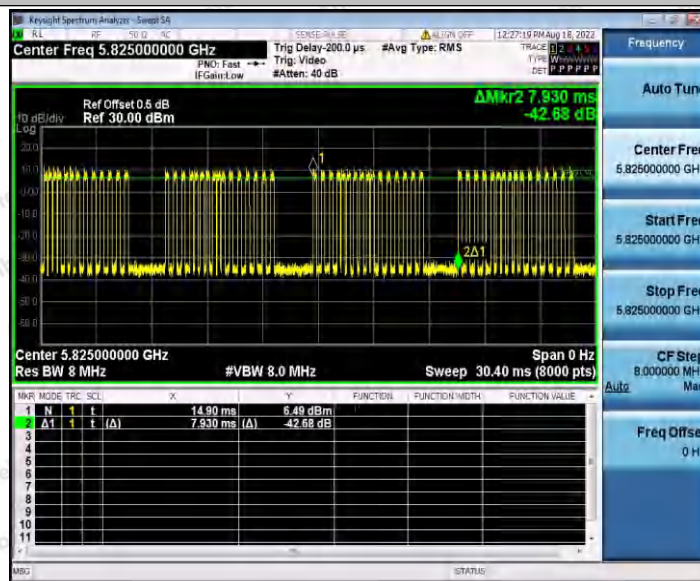
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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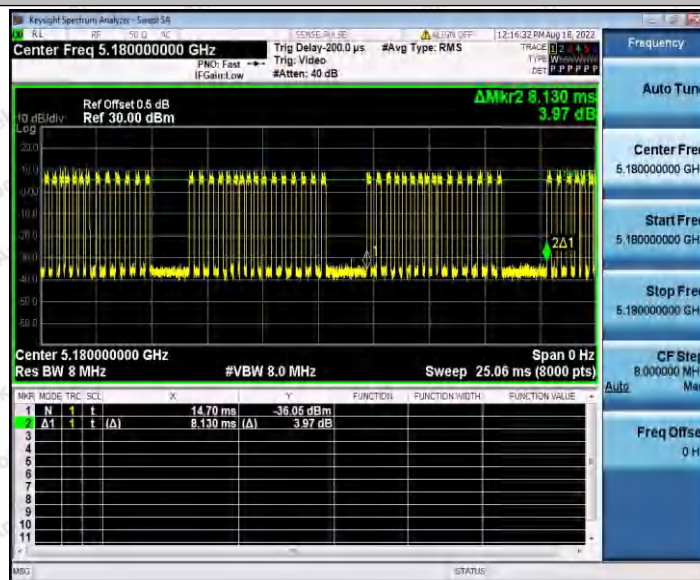
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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

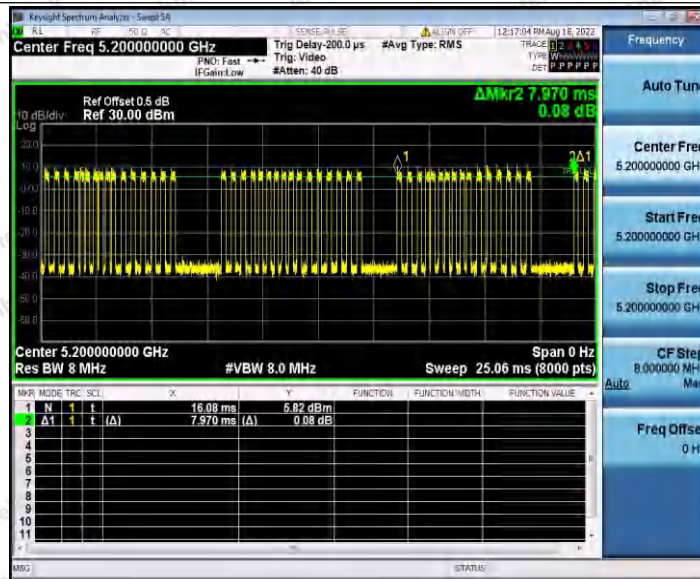
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

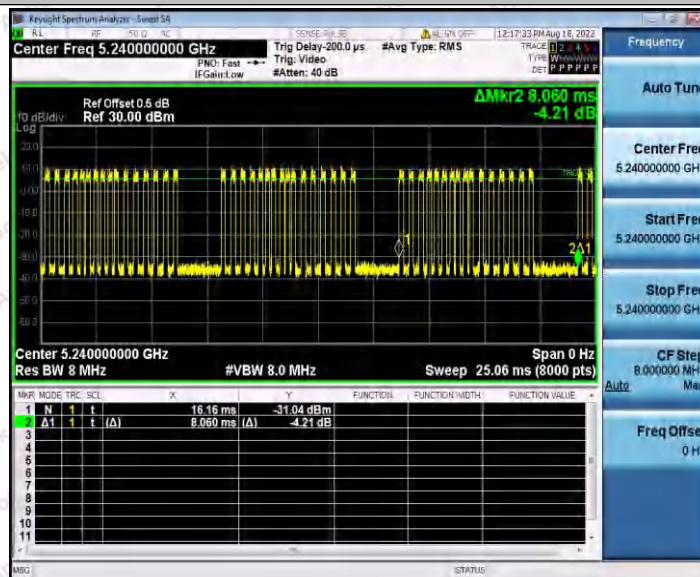


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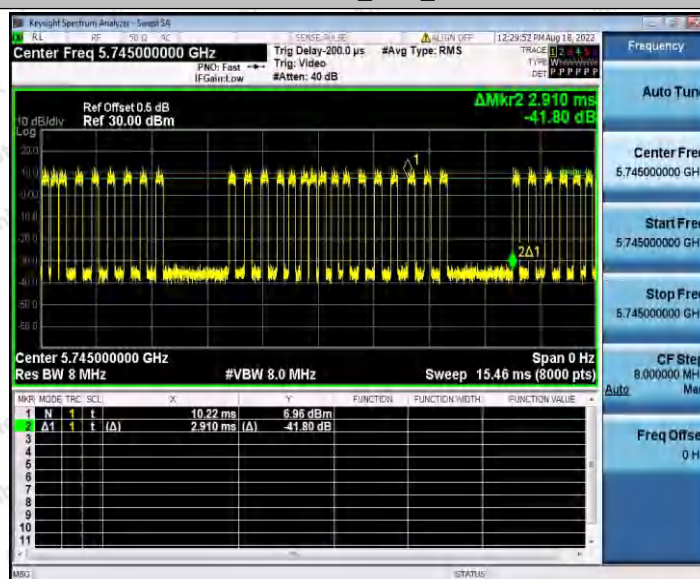




11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



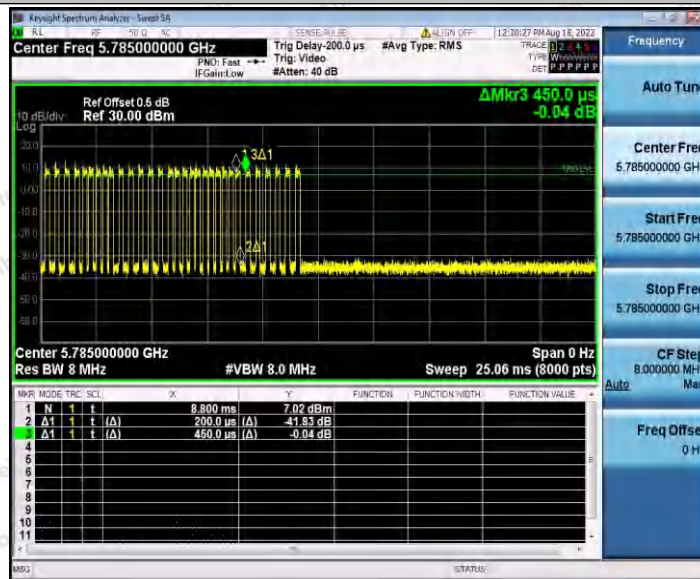
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

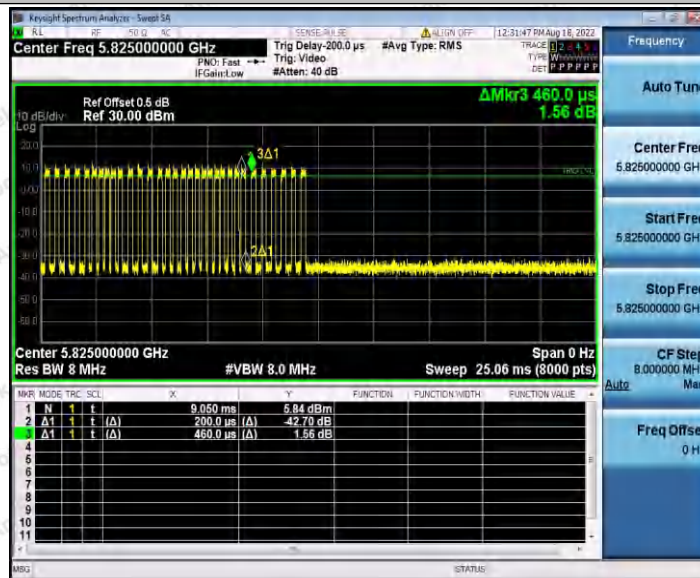
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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

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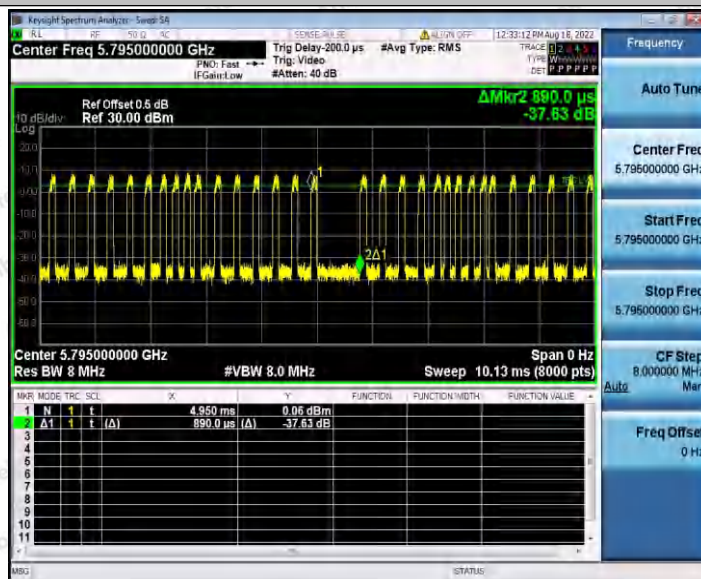
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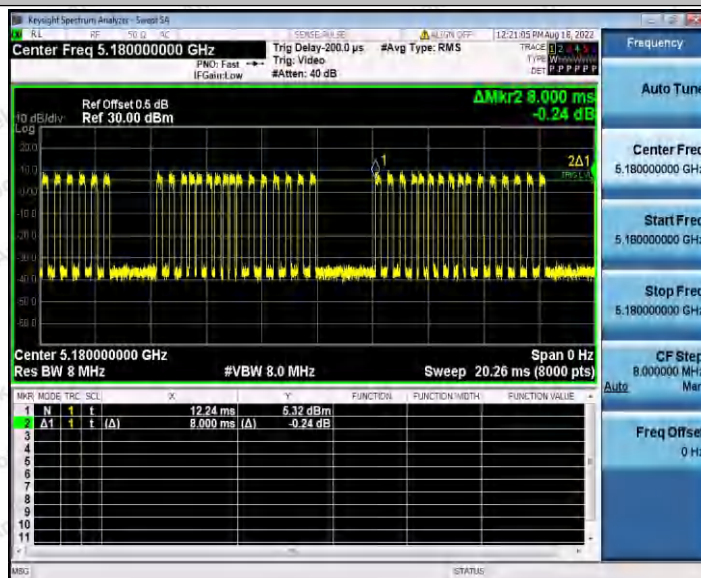
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

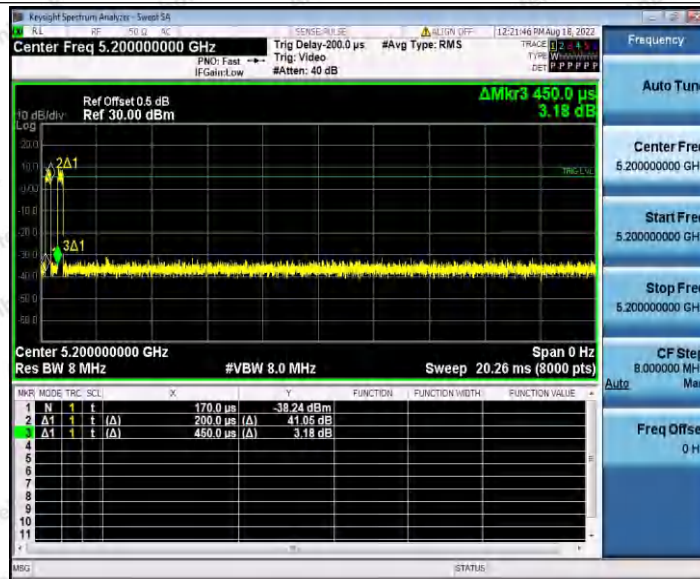
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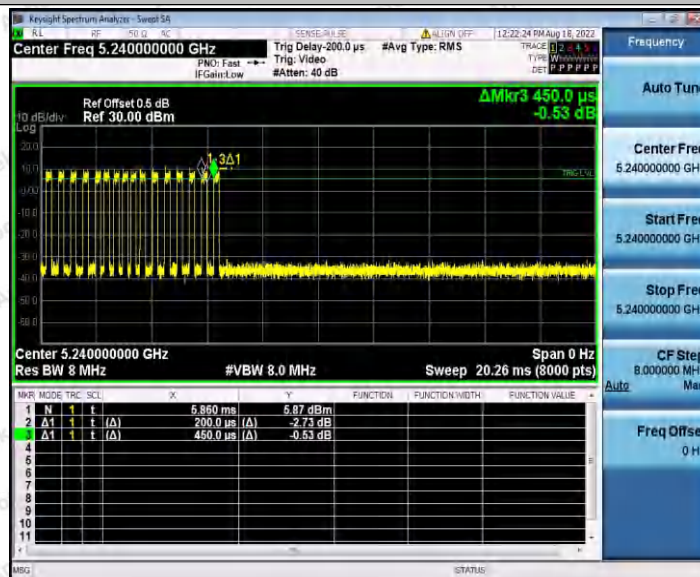


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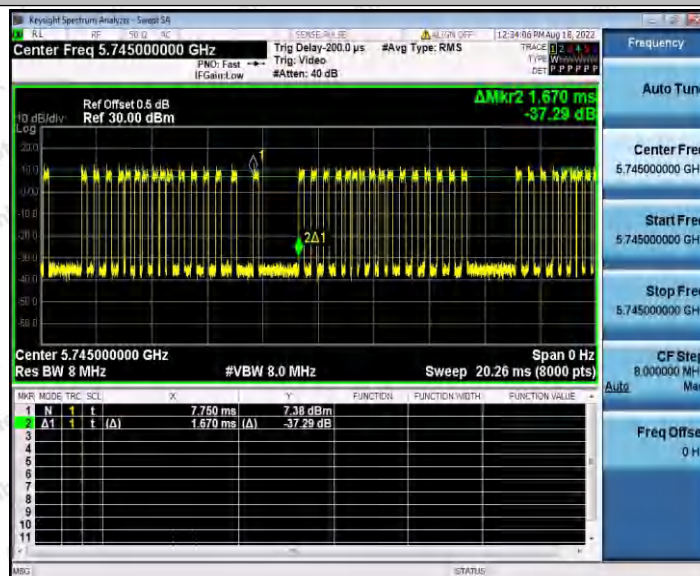




11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



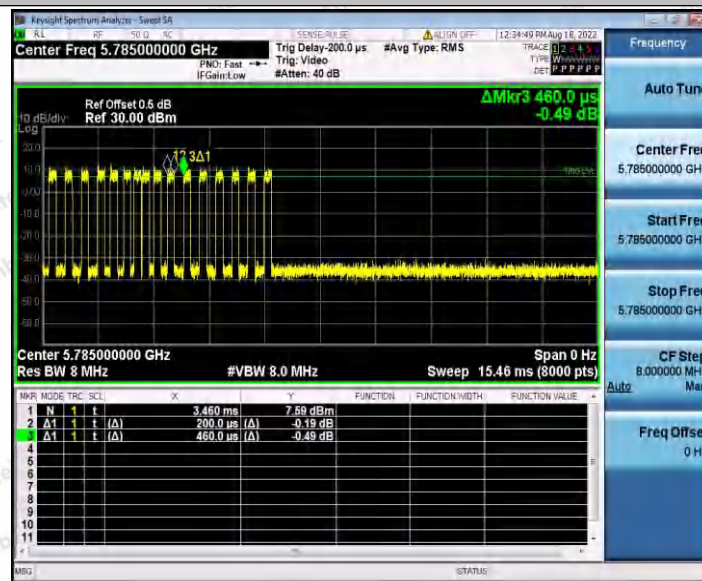
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

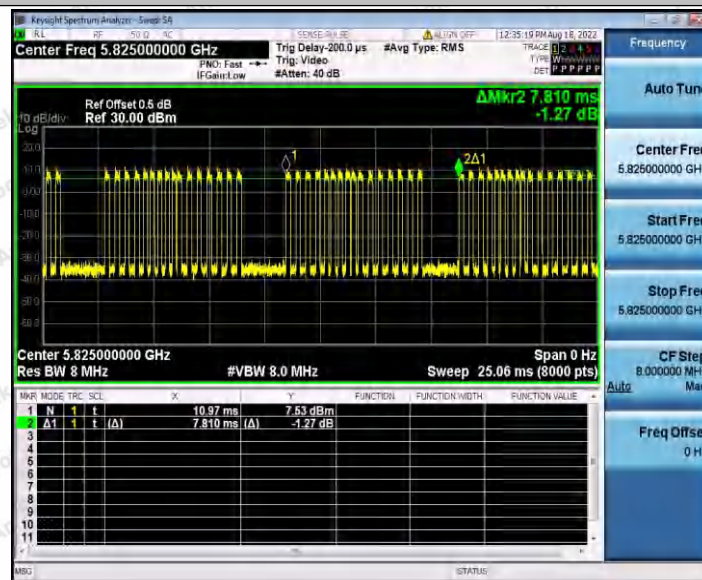
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190

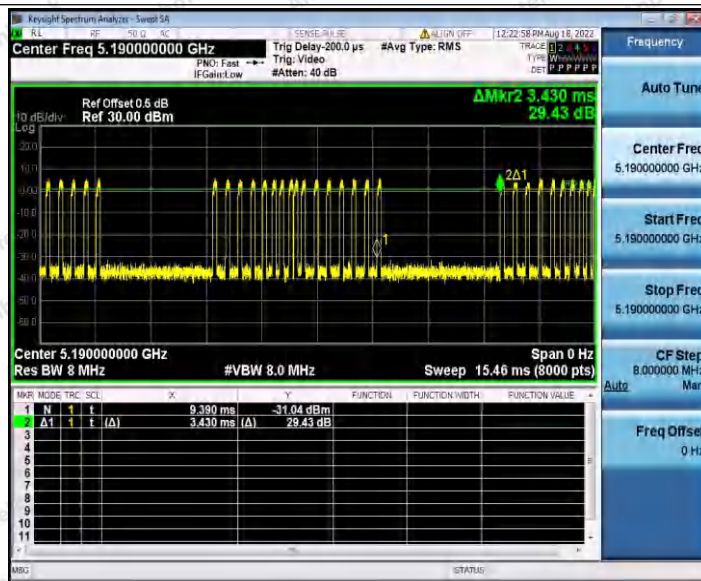
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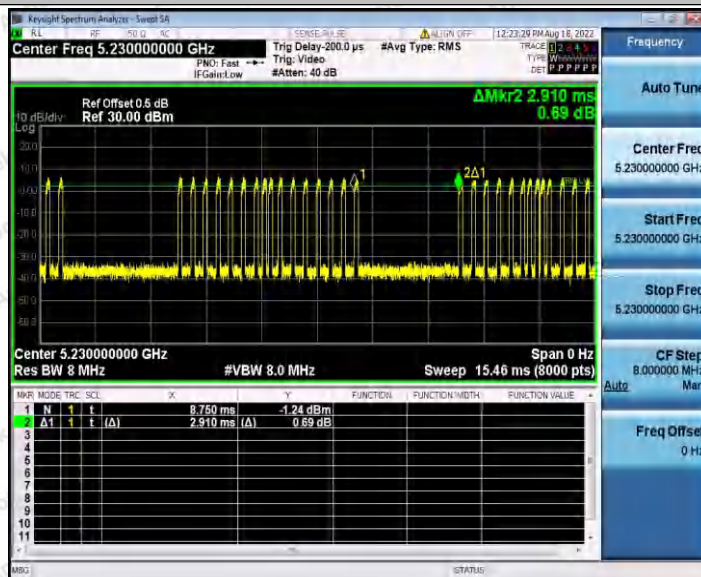


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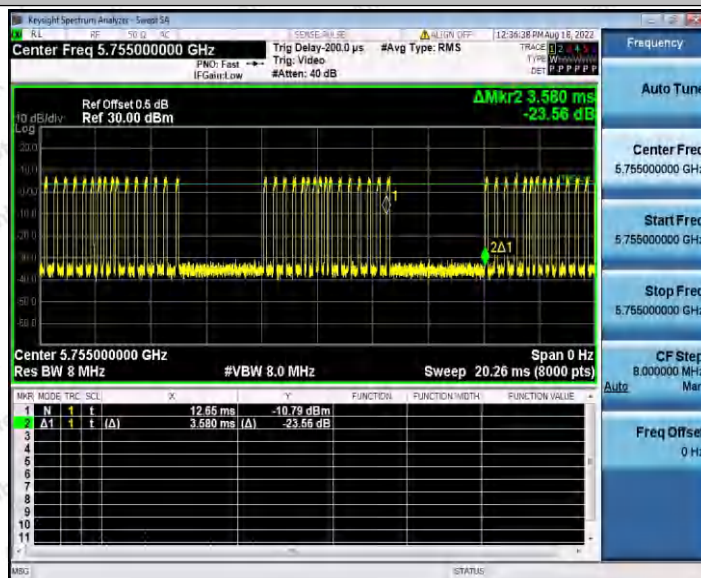




11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



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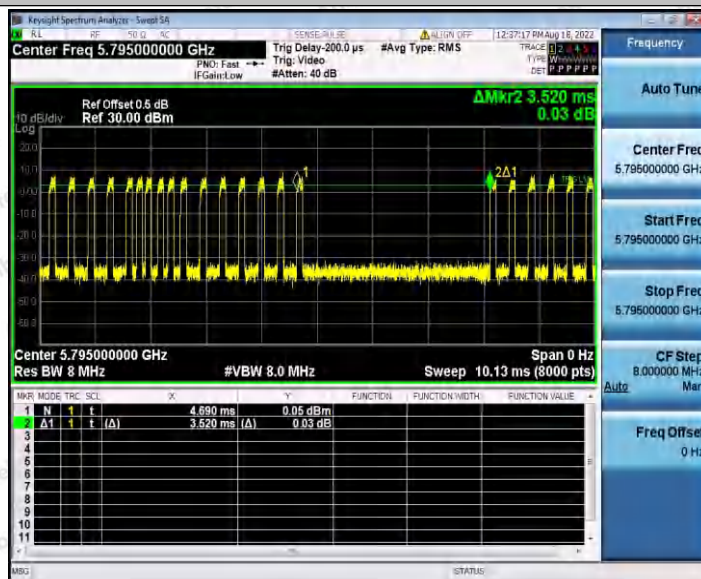
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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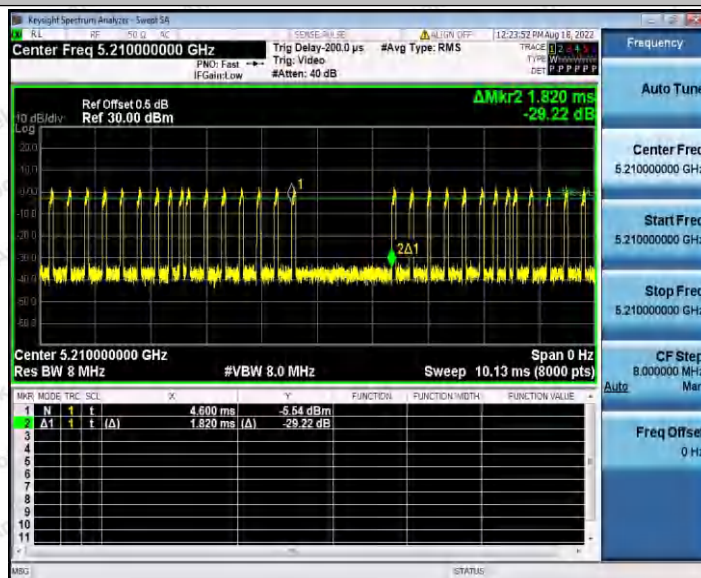
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

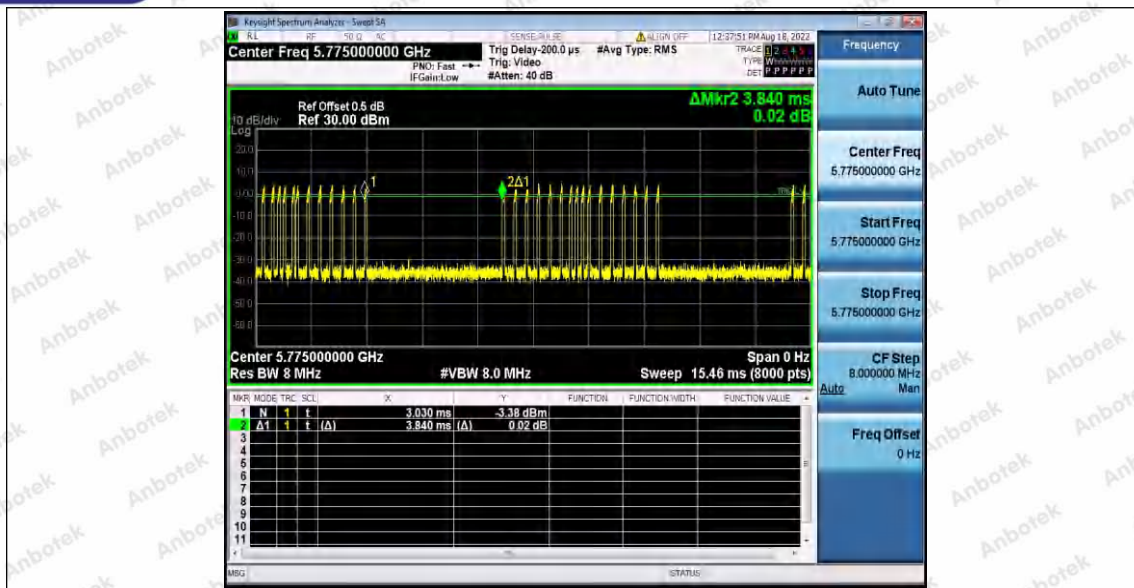
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Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.65	≤23.98	PASS
		5200	12.71	≤23.98	PASS
		5240	12.91	≤23.98	PASS
		5745	15.55	≤30.00	PASS
		5785	14.79	≤30.00	PASS
		5825	16.03	≤30.00	PASS
11N20SISO	Ant1	5180	12.81	≤23.98	PASS
		5200	12.82	≤23.98	PASS
		5240	12.75	≤23.98	PASS
		5745	15.66	≤30.00	PASS
		5785	14.25	≤30.00	PASS
		5825	14.89	≤30.00	PASS
11N40SISO	Ant1	5190	14.57	≤23.98	PASS
		5230	14.57	≤23.98	PASS
		5755	16.64	≤30.00	PASS
		5795	16.56	≤30.00	PASS
11AC20SISO	Ant1	5180	12.75	≤23.98	PASS
		5200	11.72	≤23.98	PASS
		5240	12.78	≤23.98	PASS
		5745	14.14	≤30.00	PASS
		5785	15.71	≤30.00	PASS
		5825	21.31	≤30.00	PASS
11AC40SISO	Ant1	5190	11.73	≤23.98	PASS
		5230	14.69	≤23.98	PASS
		5755	13.40	≤30.00	PASS
		5795	16.58	≤30.00	PASS
11AC80SISO	Ant1	5210	14.36	≤23.98	PASS
		5775	18.66	≤30.00	PASS



Appendix D: Maximum power spectral density

Test Result(For wifi 5.2G)

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.98	≤11.00	PASS
		5200	1.38	≤11.00	PASS
		5240	2.14	≤11.00	PASS
11N20SISO	Ant1	5180	1.63	≤11.00	PASS
		5200	1.35	≤11.00	PASS
		5240	0.93	≤11.00	PASS
11N40SISO	Ant1	5190	-1.39	≤11.00	PASS
		5230	-0.79	≤11.00	PASS
11AC20SISO	Ant1	5180	0.99	≤11.00	PASS
		5200	0.86	≤11.00	PASS
		5240	0.93	≤11.00	PASS
11AC40SISO	Ant1	5190	-1.01	≤11.00	PASS
		5230	0.04	≤11.00	PASS
11AC80SISO	Ant1	5210	-2.32	≤11.00	PASS

Test Result(For wifi 5.8G)

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	0.86	≤30.00	PASS
		5785	2.85	≤30.00	PASS
		5825	1.76	≤30.00	PASS
11N20SISO	Ant1	5745	1.56	≤30.00	PASS
		5785	2.36	≤30.00	PASS
		5825	1.82	≤30.00	PASS
11N40SISO	Ant1	5755	-2.18	≤30.00	PASS
		5795	-1.19	≤30.00	PASS
11AC20SISO	Ant1	5745	-0.18	≤30.00	PASS
		5785	0.36	≤30.00	PASS
		5825	0.24	≤30.00	PASS
11AC40SISO	Ant1	5755	-3.64	≤30.00	PASS
		5795	-3.53	≤30.00	PASS
11AC80SISO	Ant1	5775	-4.91	≤30.00	PASS



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_5245



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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190

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11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5230



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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

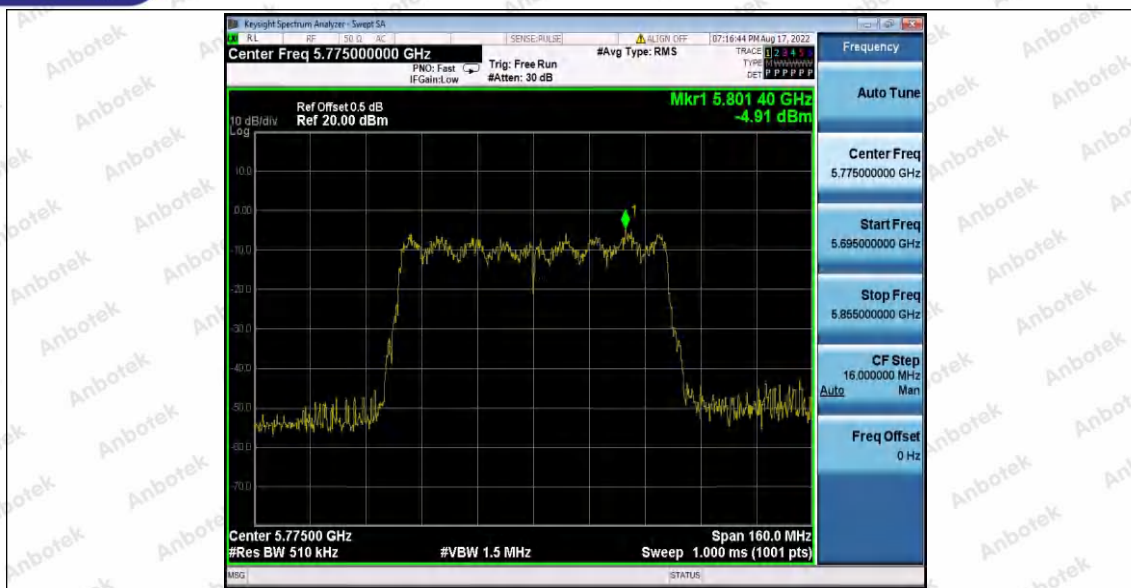
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Appendix E: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-43.2	≤-27	PASS
		High	5240	-43.54	≤-27	PASS
11N20SISO	Ant1	Low	5180	-43.63	≤-27	PASS
		High	5240	-42.96	≤-27	PASS
11N40SISO	Ant1	Low	5190	-41.33	≤-27	PASS
		High	5230	-43.4	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-43.58	≤-27	PASS
		High	5240	-43.73	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-43.08	≤-27	PASS
		High	5230	-43.45	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-42.54	≤-27	PASS
		High	5210	-43.33	≤-27	PASS

Test Result B4

TestMode	Antenna	ChName	Frequency[MHz]	FreqRange[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-41.79	≤-12.84	PASS
				5700~5720	-41.17	≤14.68	PASS
				5720~5725	-43.44	≤25.78	PASS
				5755~5650	-43.26	≤-27	PASS
		High	5825	5850~5855	-43.64	≤26.09	PASS
				5855~5875	-42.8	≤14.42	PASS
				5875~5925	-43.3	≤-26.11	PASS
				5925~5950	-43.5	≤-27	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-42.78	≤-14.22	PASS
				5700~5720	-41.42	≤14.98	PASS
				5720~5725	-39.26	≤23.31	PASS
				5755~5650	-42.9	≤-27	PASS
		High	5825	5850~5855	-42.93	≤22.67	PASS
				5855~5875	-43.29	≤15.47	PASS
				5875~5925	-42.61	≤-1.03	PASS
				5925~5950	-43.55	≤-27	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-42.21	≤5.03	PASS
				5700~5720	-36.7	≤15.54	PASS
				5720~5725	-36.76	≤22.26	PASS
				5745~5650	-43.22	≤-27	PASS
		High	5795	5850~5855	-43.06	≤17.14	PASS

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11AC20S ISO	Ant1	Low	5745	5855~5875	-42.61	≤12.08	PASS
				5875~5925	-43.46	≤-17.42	PASS
				5925~5950	-42.98	≤-27	PASS
		High	5745	5650~5700	-42.89	≤3.90	PASS
				5700~5720	-43.36	≤10.43	PASS
				5720~5725	-42	≤24.37	PASS
			5825	5755~5650	-43.63	≤-27	PASS
				5850~5855	-43.98	≤17.20	PASS
				5855~5875	-43.13	≤10.18	PASS
11AC40S ISO	Ant1	Low	5755	5875~5925	-42.87	≤-18.01	PASS
				5925~5950	-43.6	≤-27	PASS
				5650~5700	-42.84	≤-21.52	PASS
		High	5755	5700~5720	-41.87	≤15.51	PASS
				5720~5725	-42.76	≤16.79	PASS
				5745~5650	-43.61	≤-27	PASS
			5795	5850~5855	-43.4	≤17.14	PASS
				5855~5875	-43.03	≤12.12	PASS
				5875~5925	-42.75	≤7.04	PASS
11AC80S ISO	Ant1	Low	5775	5925~5950	-44.31	≤-27	PASS
				5650~5700	-42.81	≤3.52	PASS
				5700~5720	-39.98	≤15.08	PASS
				5720~5725	-39.82	≤17.38	PASS
		High	5775	5765~5650	-43.41	≤-27	PASS
				5850~5855	-37.08	≤19.78	PASS
				5855~5875	-35.7	≤12.61	PASS
				5875~5925	-39.42	≤-26.76	PASS
				5925~5950	-42.79	≤-27	PASS

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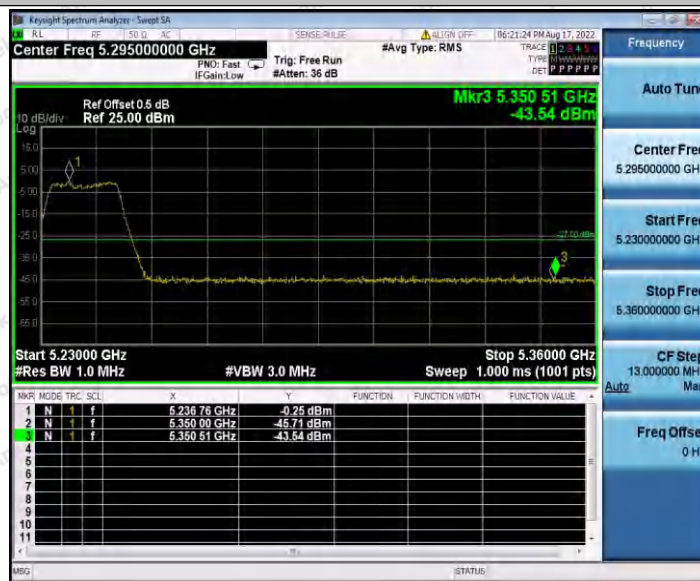


Test Graphs B1/2/3

11A_Ant1_Low_5180



11A_Ant1_High_5240



11N20SISO_Ant1_Low_5180

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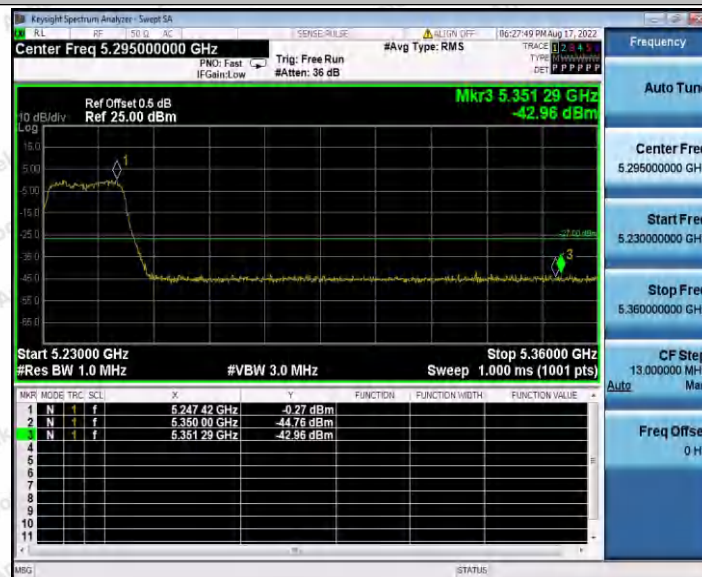


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11N20ISO_Ant1_High_5240



11N40ISO_Ant1_Low_5190



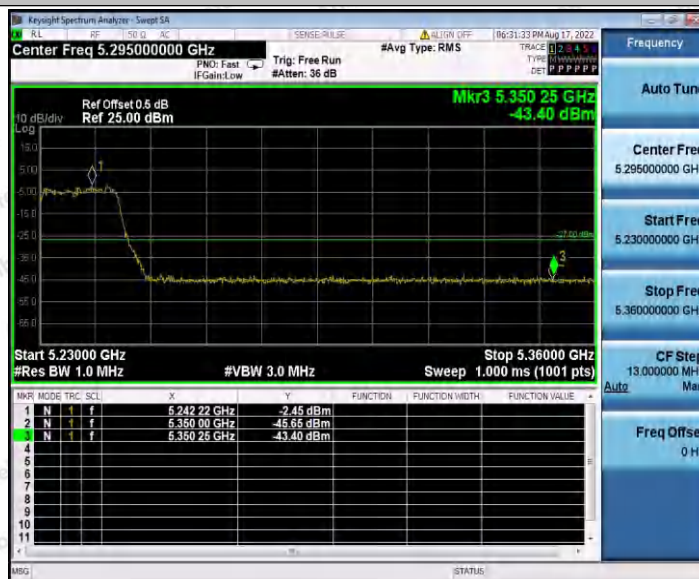
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11N40SISO_Ant1_High_5230



11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240

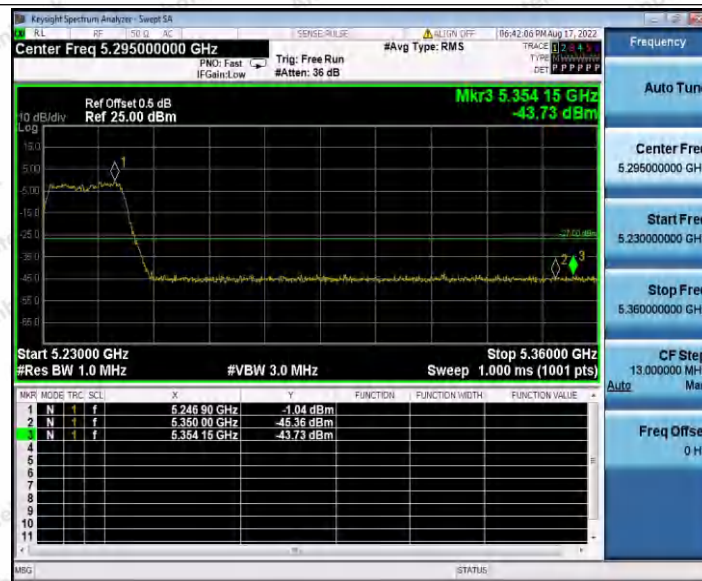
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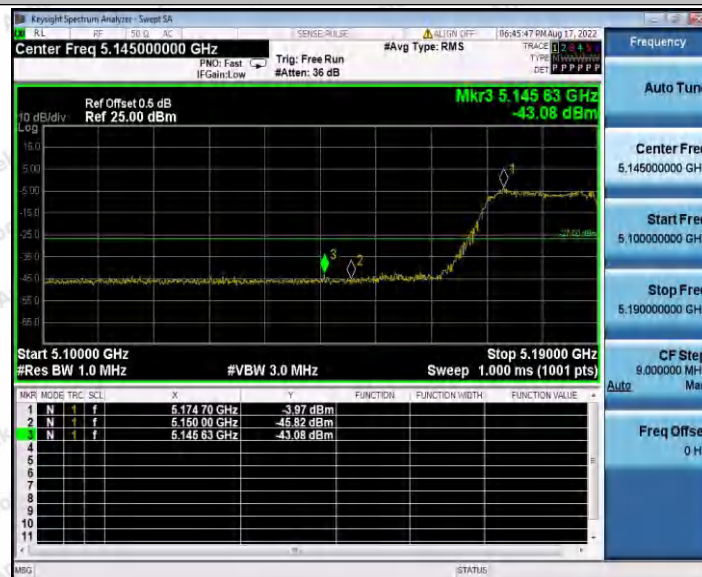


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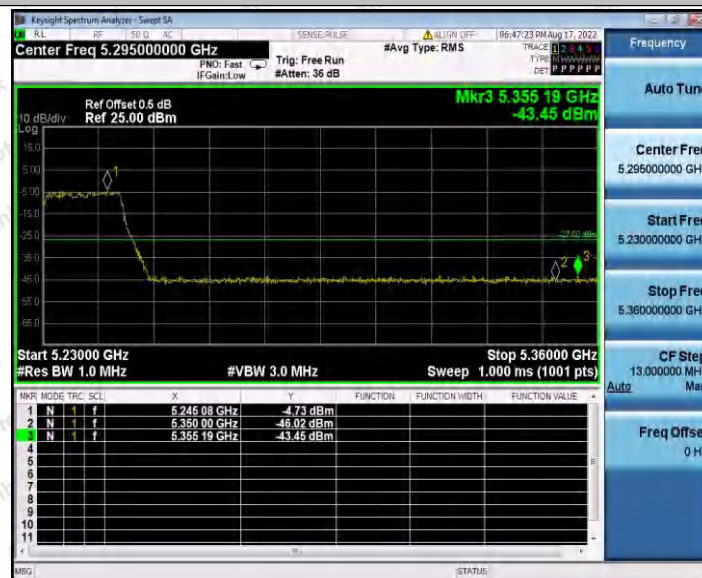




11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



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11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



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Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745

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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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11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



---End---

