

Appendix Test Data

Report No.:	18220WC10231603	Test Date:	2021.10.29
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.240	5169.40 0	5190.640	---	PASS
		5200	21.120	5189.48 0	5210.600	---	PASS
		5240	21.320	5229.36 0	5250.680	---	PASS
		5745	21.240	5734.32 0	5755.560	---	PASS
		5785	21.240	5774.28 0	5795.520	---	PASS
		5825	21.480	5814.32 0	5835.800	---	PASS
11N20SI SO	Ant1	5180	25.800	5168.36 0	5194.160	---	PASS
		5200	21.680	5189.16 0	5210.840	---	PASS
		5240	22.160	5229.16 0	5251.320	---	PASS
		5745	21.280	5734.36 0	5755.640	---	PASS
		5785	21.400	5774.28 0	5795.680	---	PASS
		5825	21.520	5814.36 0	5835.880	---	PASS
11N40SI SO	Ant1	5190	47.200	5170.08 0	5217.280	---	PASS
		5230	40.160	5210.40	5250.560	---	PASS

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				0			
		5755	39.920	5735.16 0	5775.080	---	PASS
		5795	39.280	5775.32 0	5814.600	---	PASS
11AC20S ISO	Ant1	5180	24.280	5169.16 0	5193.440	---	PASS
		5200	24.640	5189.40 0	5214.040	---	PASS
		5240	21.560	5229.20 0	5250.760	---	PASS
		5745	21.920	5733.68 0	5755.600	---	PASS
		5785	21.440	5774.40 0	5795.840	---	PASS
		5825	21.240	5814.40 0	5835.640	---	PASS
11AC40S ISO	Ant1	5190	44.560	5170.24 0	5214.800	---	PASS
		5230	39.760	5210.40 0	5250.160	---	PASS
		5755	40.320	5735.00 0	5775.320	---	PASS
		5795	39.760	5775.16 0	5814.920	---	PASS
11AC80S ISO	Ant1	5210	80.160	5170.00 0	5250.160	---	PASS
		5775	80.320	5735.16 0	5815.480	---	PASS

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Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO Ant1 5240



11N20SISO Ant1 5745



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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



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	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.381	5171.309	5188.690	---	PASS
		5200	17.296	5191.384	5208.680	---	PASS
		5240	17.305	5231.270	5248.575	---	PASS
		5745	17.397	5736.231	5753.628	---	PASS
		5785	17.312	5776.311	5793.623	---	PASS
		5825	17.610	5816.165	5833.775	---	PASS
11N20SI SO	Ant1	5180	18.369	5170.834	5189.203	---	PASS
		5200	18.358	5190.844	5209.202	---	PASS
		5240	18.322	5230.846	5249.168	---	PASS
		5745	18.346	5735.795	5754.141	---	PASS
		5785	18.251	5775.892	5794.143	---	PASS
		5825	18.331	5815.869	5834.200	---	PASS
11N40SI SO	Ant1	5190	36.399	5171.896	5208.295	---	PASS
		5230	36.218	5211.888	5248.106	---	PASS
		5755	36.371	5736.879	5773.250	---	PASS
		5795	36.220	5776.894	5813.114	---	PASS
11AC20S ISO	Ant1	5180	18.412	5170.824	5189.236	---	PASS
		5200	18.309	5190.905	5209.214	---	PASS
		5240	18.330	5230.848	5249.178	---	PASS
		5745	18.309	5735.82	5754.133	---	PASS

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				4			
		5785	18.261	5775.87 4	5794.135	---	PASS
		5825	18.306	5815.88 1	5834.187	---	PASS
11AC40S ISO	Ant1	5190	36.534	5171.76 8	5208.302	---	PASS
		5230	36.334	5211.873	5248.207	---	PASS
		5755	36.520	5736.79 4	5773.314	---	PASS
		5795	36.297	5776.85 4	5813.151	---	PASS
11AC80S ISO	Ant1	5210	75.496	5172.32 7	5247.823	---	PASS
		5775	75.541	5737.35 4	5812.895	---	PASS

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Test Graphs

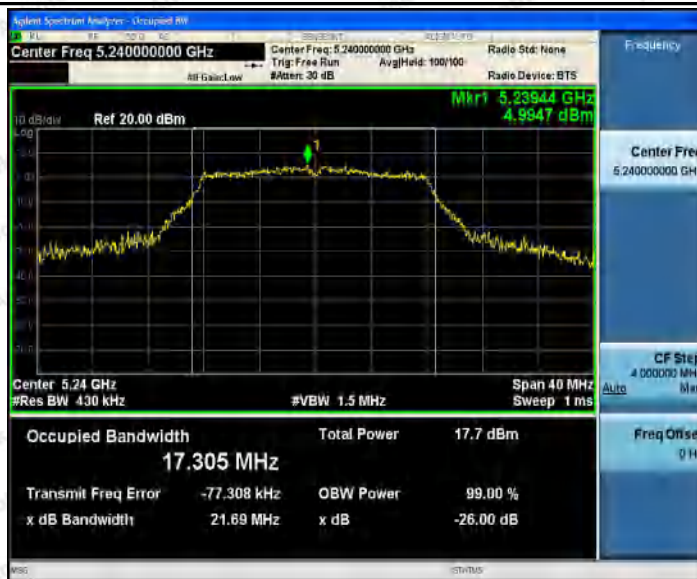
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11A_Ant1_5200



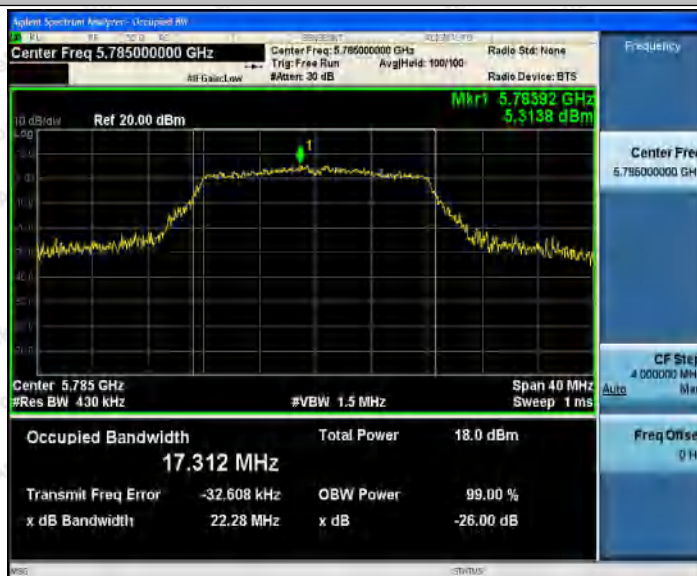
11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



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11A_Ant1_5825



11N20SISO_Ant1_5180



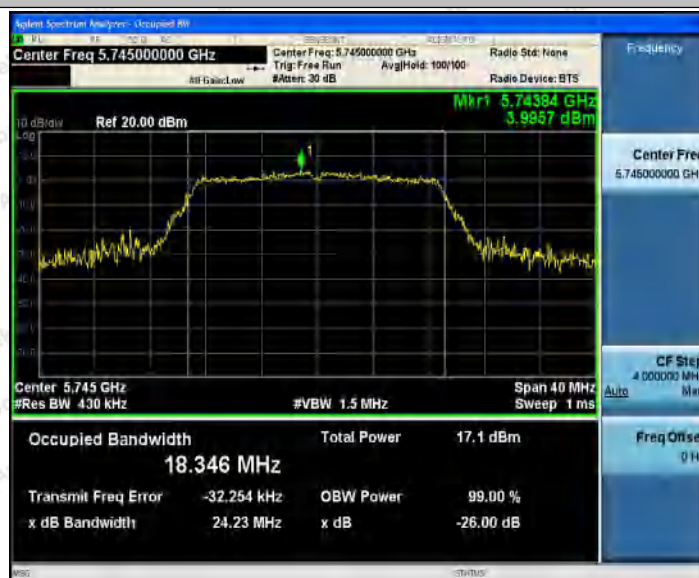
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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



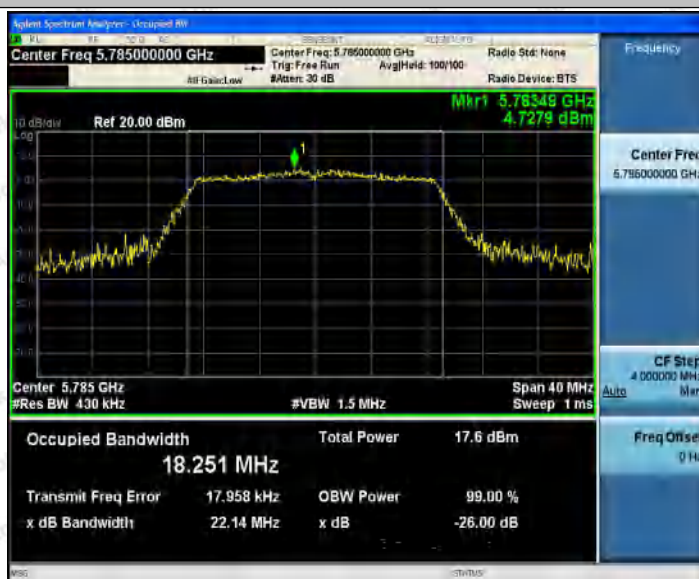
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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

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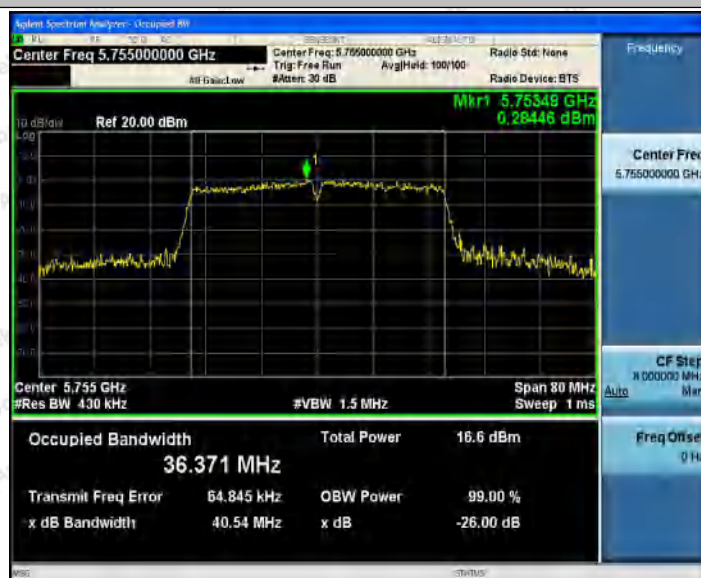
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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



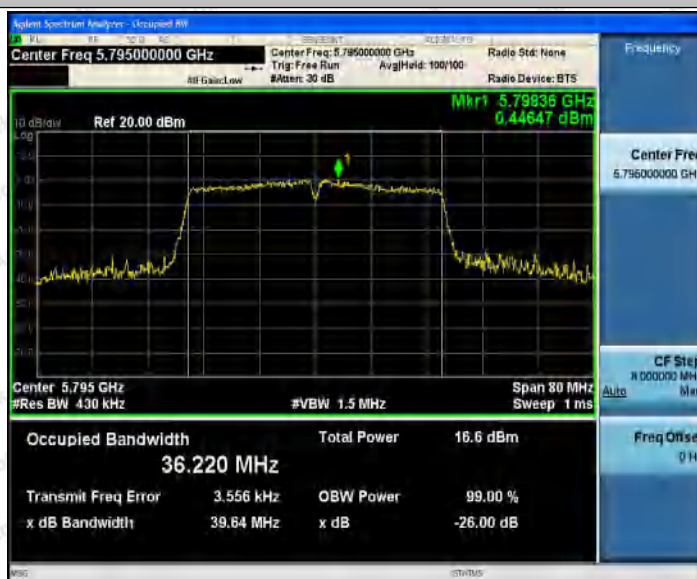
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



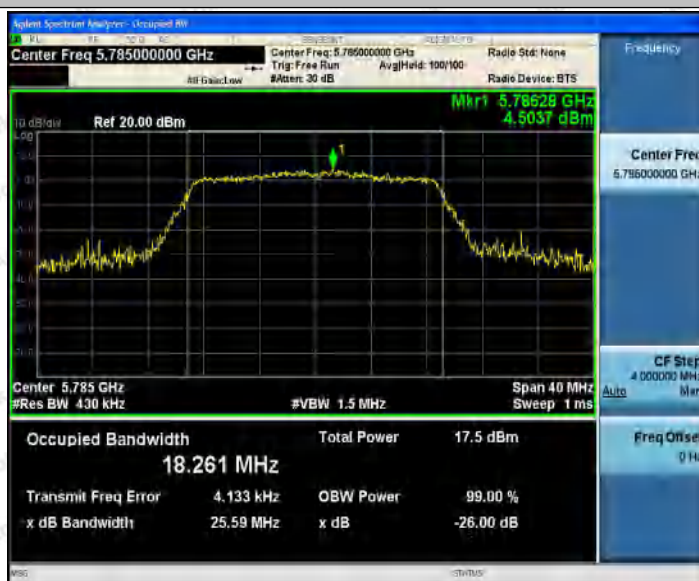
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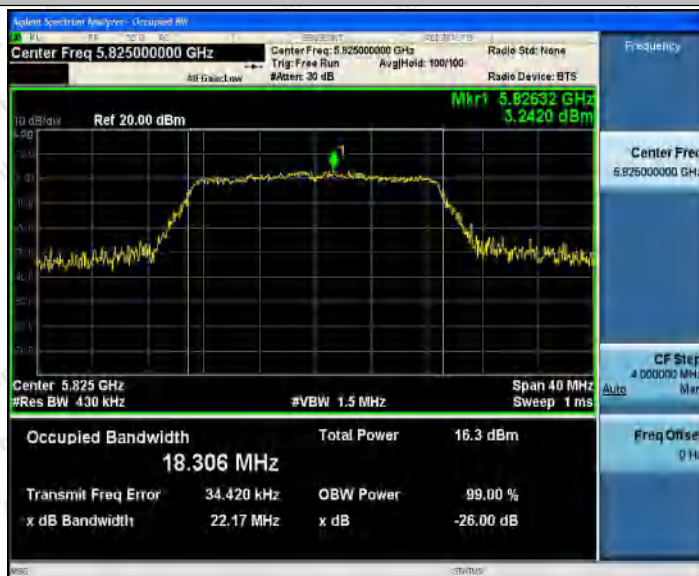
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



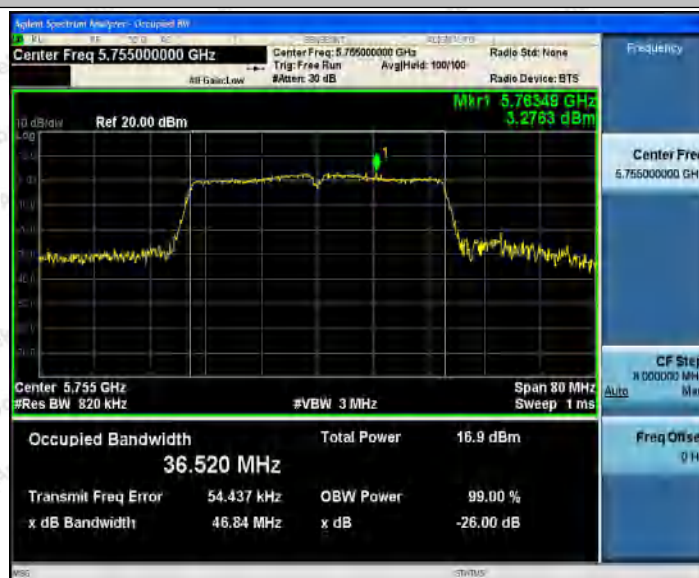
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



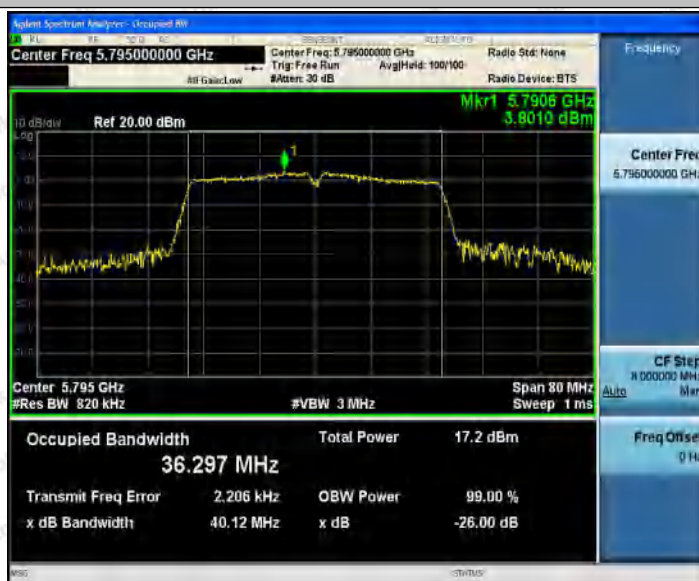
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



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Appendix A3: Min emission bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.160	5736.800	5752.960	0.5	PASS
		5785	16.400	5776.800	5793.200	0.5	PASS
		5825	16.400	5816.800	5833.200	0.5	PASS
11N20SI SO	Ant1	5745	17.600	5736.200	5753.800	0.5	PASS
		5785	16.360	5777.080	5793.440	0.5	PASS
		5825	17.640	5816.200	5833.840	0.5	PASS
11N40SI SO	Ant1	5755	35.520	5737.400	5772.920	0.5	PASS
		5795	35.280	5777.400	5812.680	0.5	PASS
11AC20S ISO	Ant1	5745	17.600	5736.200	5753.800	0.5	PASS
		5785	17.600	5776.200	5793.800	0.5	PASS
		5825	17.240	5816.200	5833.440	0.5	PASS
11AC40S ISO	Ant1	5755	36.160	5737.080	5773.240	0.5	PASS
		5795	35.440	5777.160	5812.600	0.5	PASS
11AC80S ISO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS

Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



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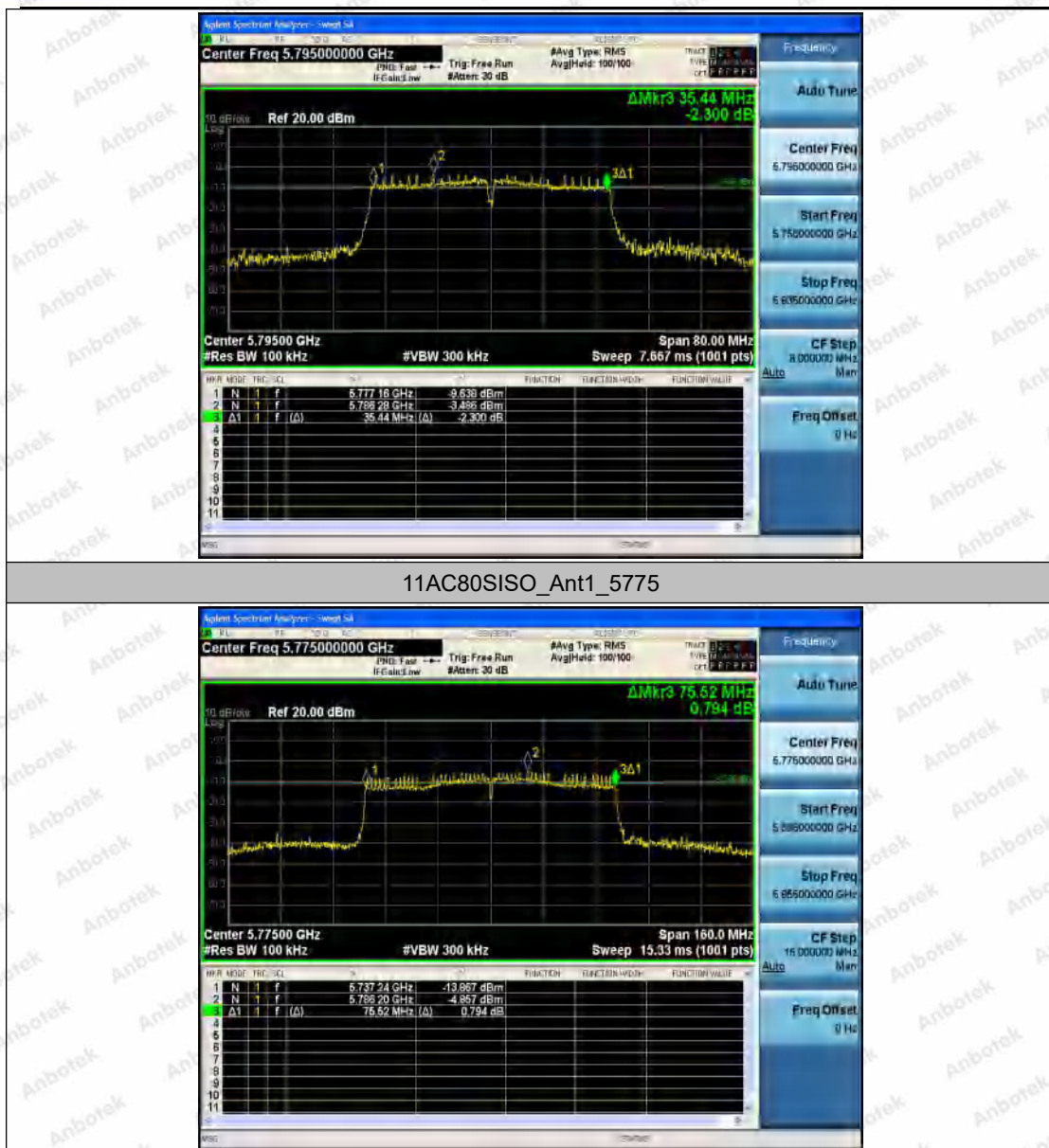
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



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Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	10.11	≤23.98	PASS
		5200	10.96	≤23.98	PASS
		5240	11.42	≤23.98	PASS
11N20SISO	Ant1	5180	10.71	≤23.98	PASS
		5200	11.49	≤23.98	PASS
		5240	11.93	≤23.98	PASS
11N40SISO	Ant1	5190	10.17	≤23.98	PASS
		5230	11.33	≤23.98	PASS
11AC20SISO	Ant1	5180	10.69	≤23.98	PASS
		5200	11.46	≤23.98	PASS
		5240	11.93	≤23.98	PASS
11AC40SISO	Ant1	5190	12.59	≤23.98	PASS
		5230	11.11	≤23.98	PASS
11AC80SISO	Ant1	5210	10.84	≤23.98	PASS

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	11.36	≤30	PASS
		5785	11.84	≤30	PASS
		5825	10.59	≤30	PASS
11N20SISO	Ant1	5745	10.95	≤30	PASS
		5785	11.40	≤30	PASS
		5825	10.08	≤30	PASS
11N40SISO	Ant1	5755	10.43	≤30	PASS
		5795	10.26	≤30	PASS
11AC20SISO	Ant1	5745	10.96	≤30	PASS
		5785	11.33	≤30	PASS
		5825	10.15	≤30	PASS
11AC40SISO	Ant1	5755	12.35	≤30	PASS
		5795	10.23	≤30	PASS
11AC80SISO	Ant1	5775	11.33	≤30	PASS

Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	7.24	≤11	PASS
		5200	7.97	≤11	PASS
		5240	8.54	≤11	PASS
11N20SISO	Ant1	5180	8.08	≤11	PASS
		5200	8.03	≤11	PASS
		5240	8.93	≤11	PASS
11N40SISO	Ant1	5190	4.06	≤11	PASS
		5230	5.24	≤11	PASS
11AC20SISO	Ant1	5180	7.32	≤11	PASS
		5200	8.36	≤11	PASS
		5240	8.72	≤11	PASS
11AC40SISO	Ant1	5190	4.21	≤11	PASS
		5230	5.36	≤11	PASS
11AC80SISO	Ant1	5210	1.36	≤11	PASS

TestMode	Antenna	Channel	Result [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	Ant1	5745	4.96	≤30	PASS
		5785	5.19	≤30	PASS
		5825	3.97	≤30	PASS
11N20SISO	Ant1	5745	4.11	≤30	PASS
		5785	4.12	≤30	PASS
		5825	3.23	≤30	PASS
11N40SISO	Ant1	5755	0.92	≤30	PASS
		5795	0.63	≤30	PASS
11AC20SISO	Ant1	5745	3.96	≤30	PASS
		5785	4.65	≤30	PASS
		5825	3.44	≤30	PASS
11AC40SISO	Ant1	5755	0.59	≤30	PASS
		5795	0.56	≤30	PASS
11AC80SISO	Ant1	5775	-1.01	≤30	PASS

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



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11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



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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 D: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-31.59	≤-27	PASS
		High	5240	-45.01	≤-27	PASS
11N20SI SO	Ant1	Low	5180	-31.01	≤-27	PASS
		High	5240	-44.85	≤-27	PASS
11N40SI SO	Ant1	Low	5190	-30.06	≤-27	PASS
		High	5230	-44.92	≤-27	PASS
11AC20S ISO	Ant1	Low	5180	-31.56	≤-27	PASS
		High	5240	-45.49	≤-27	PASS
11AC40S ISO	Ant1	Low	5190	-28.8	≤-27	PASS
		High	5230	-44.81	≤-27	PASS
11AC80S ISO	Ant1	Low	5210	-30.11	≤-27	PASS
		High	5210	-41.19	≤-27	PASS

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-35.75	≤7.69	PASS
				5700~5720	-23.08	≤15.59	PASS
				5720~5725	-18.29	≤20.13	PASS
				5755~5650	-42.42	≤-27	PASS
		High	5825	5850~5855	-24.07	≤19.25	PASS
				5855~5875	-26.42	≤10.73	PASS
				5875~5925	-37.83	≤-26.11	PASS
				5925~5950	-43.73	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-35.19	≤9.98	PASS
				5700~5720	-27.11	≤15.37	PASS
				5720~5725	-23.47	≤21.54	PASS
				5755~5650	-43.03	≤-27	PASS
		High	5825	5850~5855	-30.52	≤16.51	PASS
				5855~5875	-31.42	≤10.27	PASS
				5875~5925	-39.71	≤-25.34	PASS
				5925~5950	-43.26	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-32.1	≤10.00	PASS
				5700~5720	-25.55	≤15.51	PASS
				5720~5725	-21.73	≤25.81	PASS
				5745~5650	-42.36	≤-27	PASS
		High	5795	5850~5855	-37.36	≤21.11	PASS

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				5855~5875	-39.97	≤11.10	PASS
				5875~5925	-40.54	≤-26.44	PASS
				5925~5950	-42.28	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-35.03	≤8.38	PASS
				5700~5720	-23.91	≤15.59	PASS
				5720~5725	-22.58	≤18.71	PASS
				5755~5650	-42.54	≤-27	PASS
		High	5825	5850~5855	-28.05	≤16.85	PASS
				5855~5875	-31.56	≤10.35	PASS
				5875~5925	-41.49	≤-26.56	PASS
				5925~5950	-43.15	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-31.66	≤9.29	PASS
				5700~5720	-26.73	≤14.13	PASS
				5720~5725	-25.79	≤25.54	PASS
				5745~5650	-42.28	≤-27	PASS
		High	5795	5850~5855	-37.49	≤24.08	PASS
				5855~5875	-38.38	≤10.05	PASS
				5875~5925	-42.09	≤-25.58	PASS
				5925~5950	-43.33	≤-27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-30.39	≤8.04	PASS
				5700~5720	-26.71	≤14.29	PASS
				5720~5725	-27.81	≤25.28	PASS
				5765~5650	-38.19	≤-27	PASS
		High	5775	5850~5855	-29.22	≤24.41	PASS
				5855~5875	-28.59	≤10.17	PASS
				5875~5925	-37.16	≤-24.83	PASS
				5925~5950	-41.1	≤-27	PASS

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Test Graphs

11A_Ant1_Low_5180



11A_Ant1_High_5240



11N20SISO Ant1 Low 5180

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11N20SISO_Ant1_High_5240



11N40SISO_Ant1_Low_5190



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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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11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



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



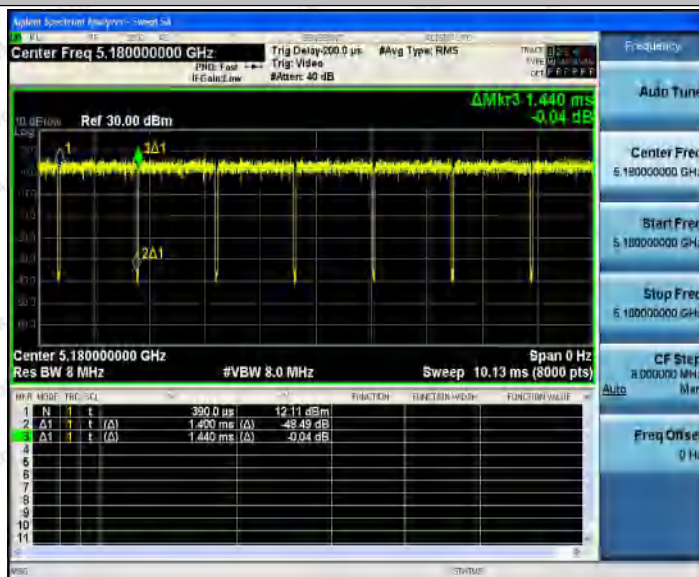
Appendix H: Duty Cycle

Test Result

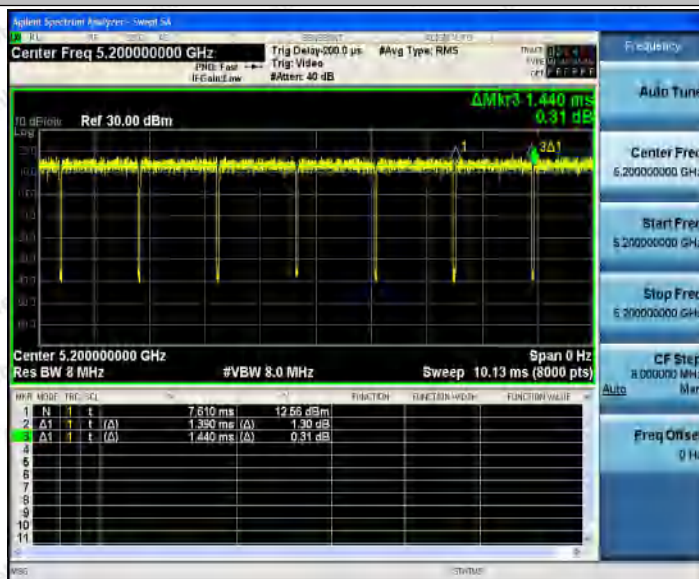
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.40	1.44	97.22	---	PASS
		5200	1.39	1.44	96.53	---	PASS
		5240	1.39	1.43	97.20	---	PASS
		5745	1.40	1.44	97.22	---	PASS
		5785	1.40	1.44	97.22	---	PASS
		5825	1.40	1.44	97.22	---	PASS
11N20SISO	Ant1	5180	1.31	1.35	97.04	---	PASS
		5200	1.31	1.35	97.04	---	PASS
		5240	1.31	1.35	97.04	---	PASS
		5745	1.31	1.35	97.04	---	PASS
		5785	1.31	1.35	97.04	---	PASS
		5825	1.31	1.35	97.04	---	PASS
11N40SISO	Ant1	5190	0.66	0.70	94.29	---	PASS
		5230	0.66	0.70	94.29	---	PASS
		5755	0.65	0.72	90.28	---	PASS
		5795	0.65	0.69	94.20	---	PASS
11AC20SIS O	Ant1	5180	1.32	1.36	97.06	---	PASS
		5200	1.32	1.36	97.06	---	PASS
		5240	1.31	1.35	97.04	---	PASS
		5745	1.31	1.35	97.04	---	PASS
		5785	1.32	1.36	97.06	---	PASS
		5825	1.32	1.36	97.06	---	PASS
11AC40SIS O	Ant1	5190	0.66	0.70	94.29	---	PASS
		5230	0.66	0.70	94.29	---	PASS
		5755	0.66	0.74	89.19	---	PASS
		5795	0.66	0.70	94.29	---	PASS
11AC80SIS O	Ant1	5210	0.33	0.40	82.50	---	PASS
		5775	0.33	0.40	82.50	---	PASS

Test Graphs

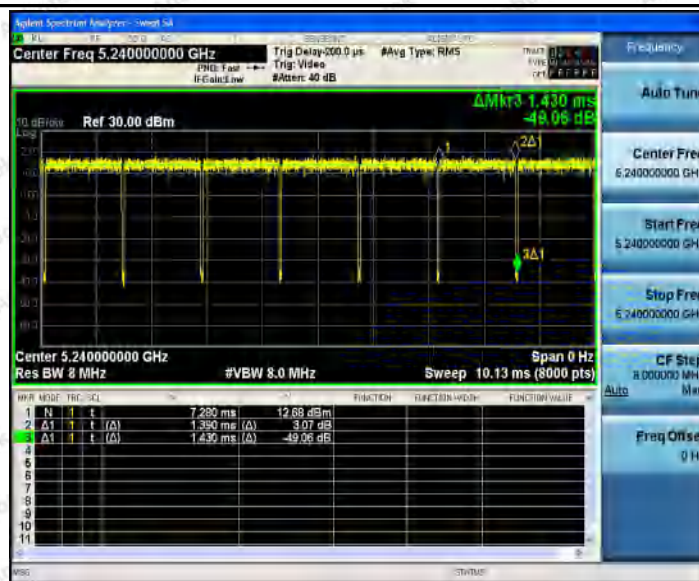
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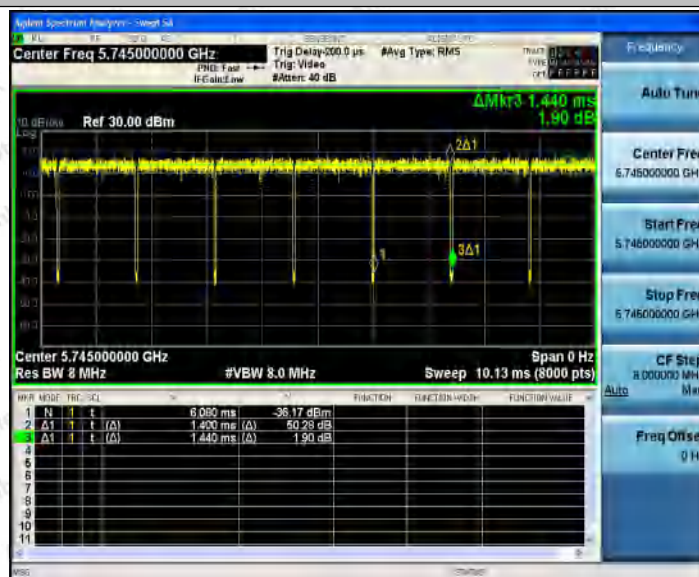
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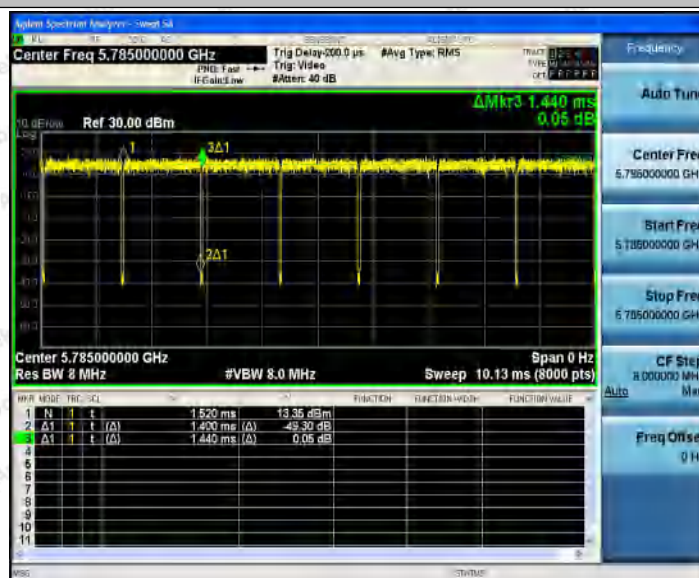
11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



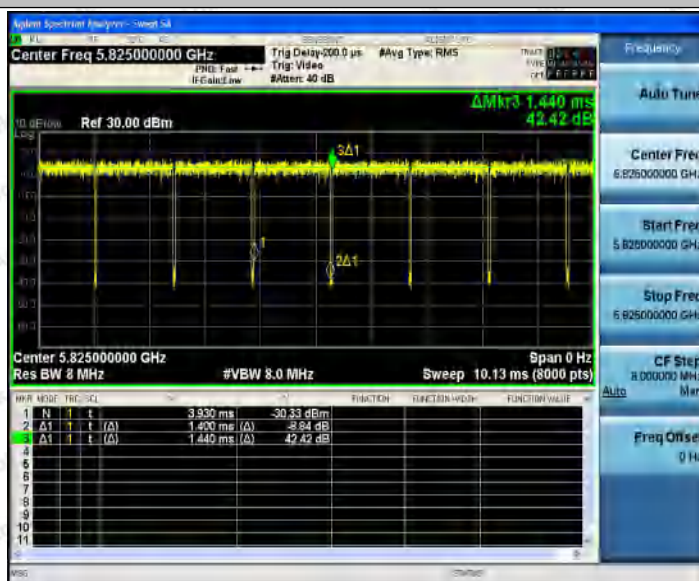
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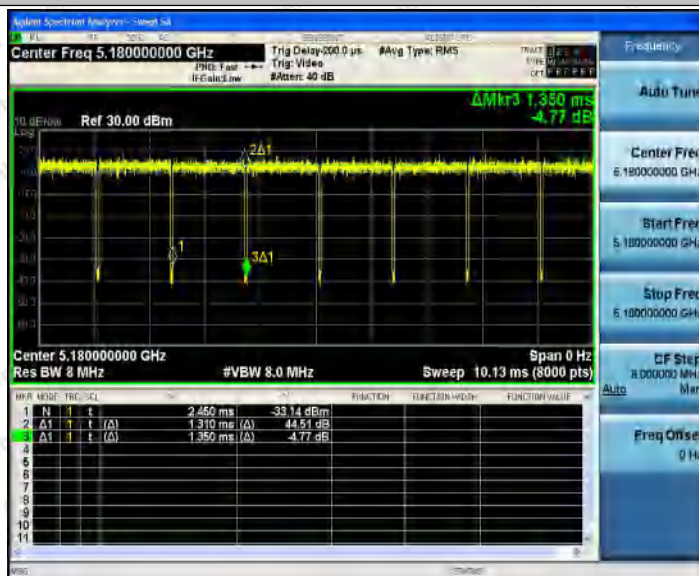
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11A_Ant1_5825



11N20SISO_Ant1_5180



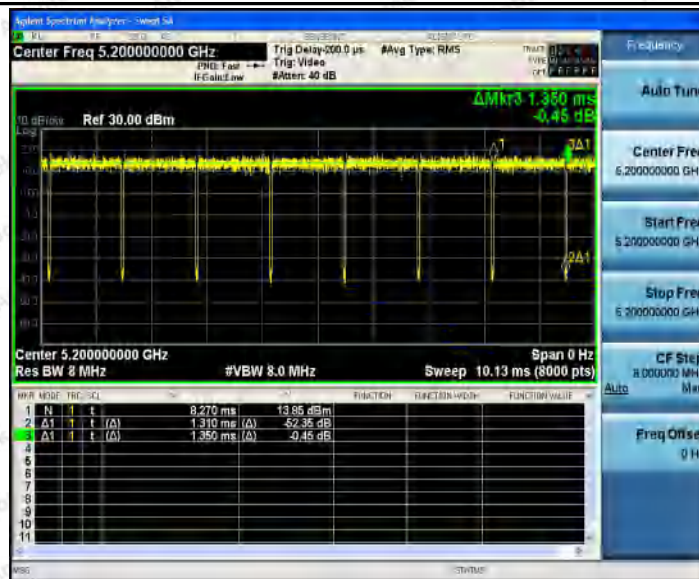
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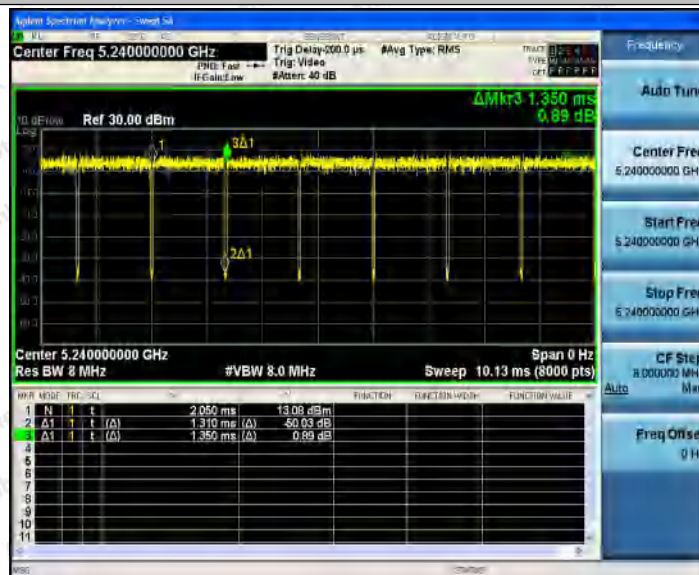
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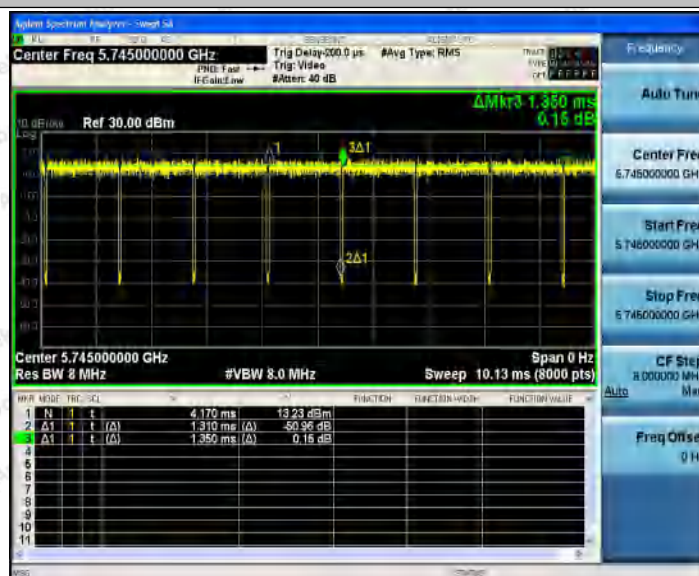
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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



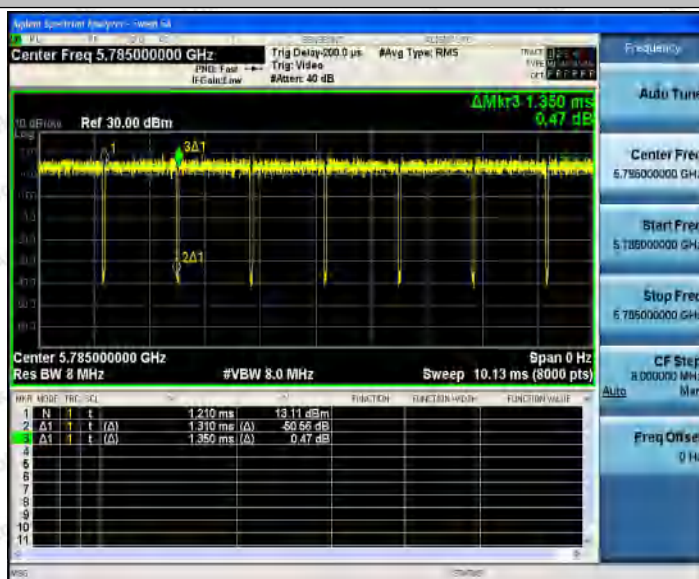
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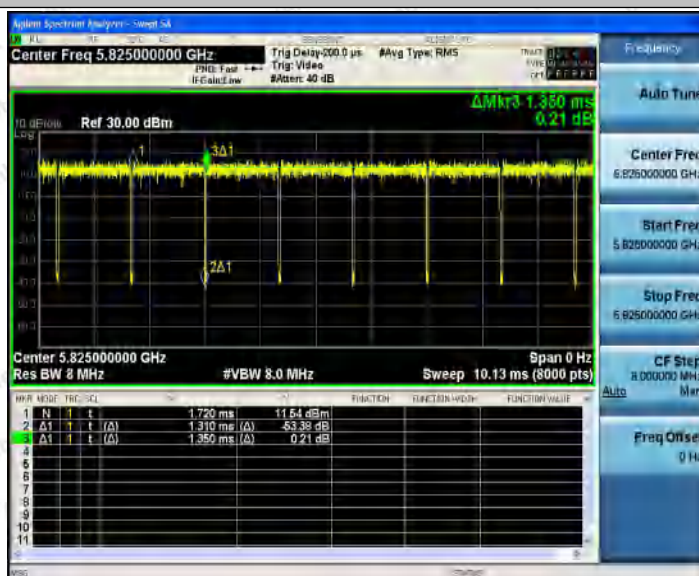
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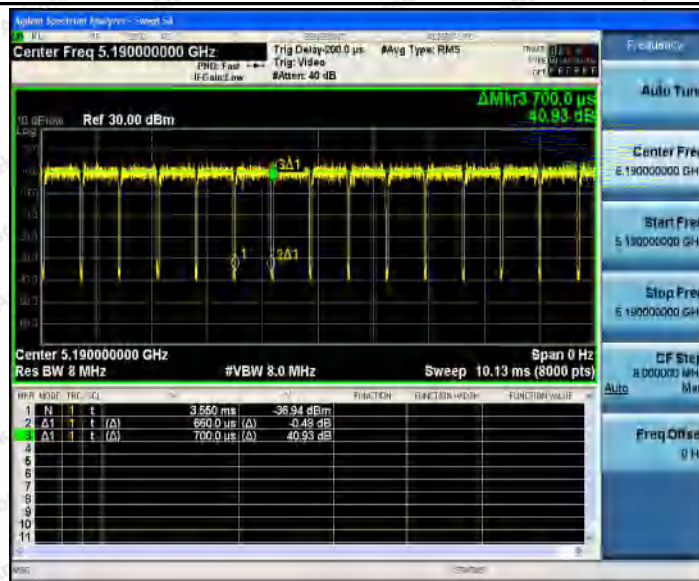
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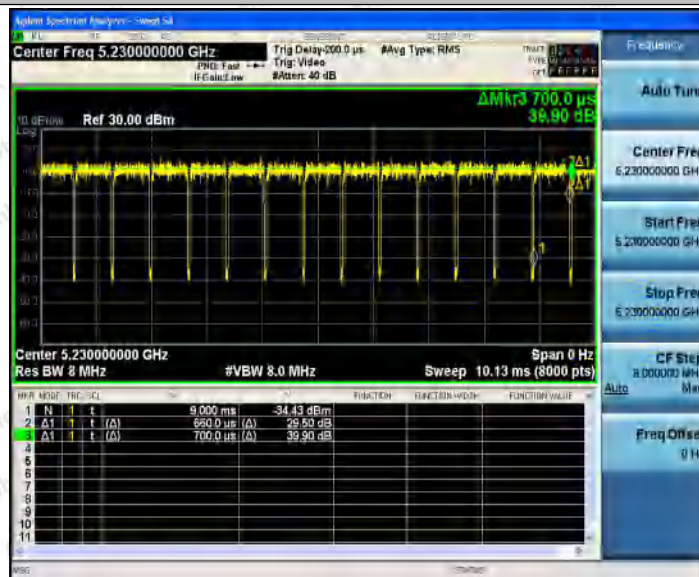
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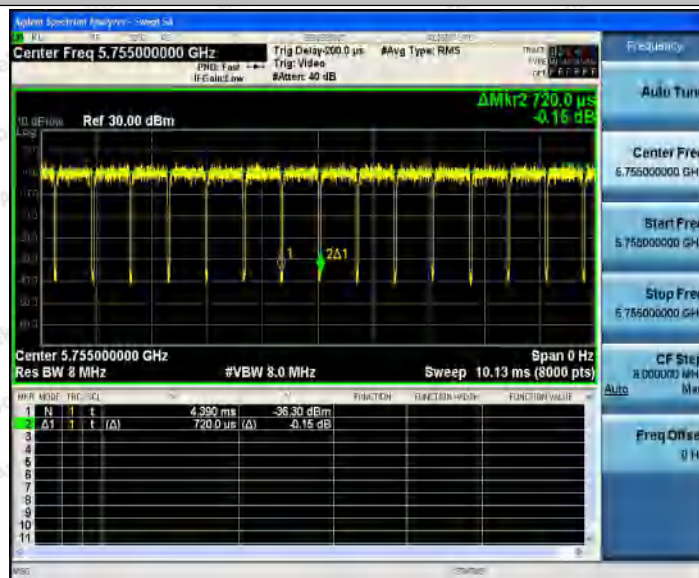
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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



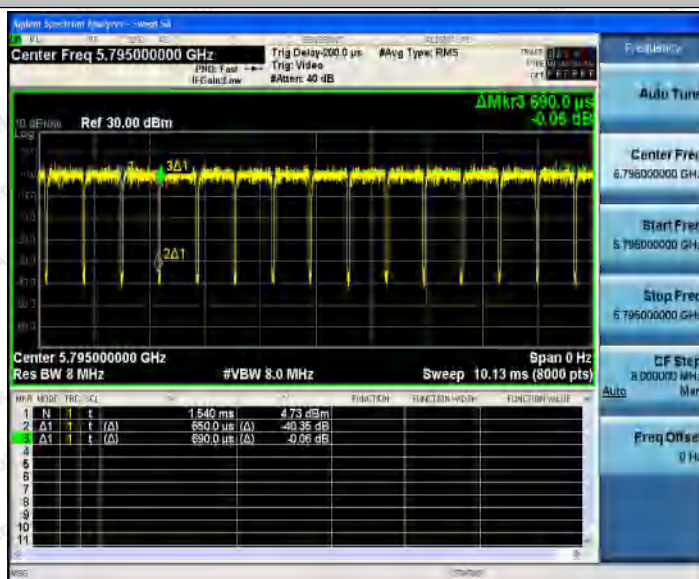
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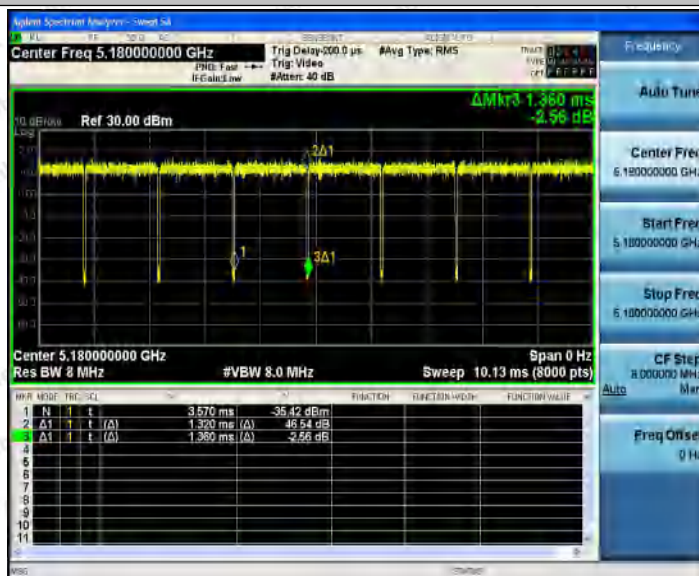
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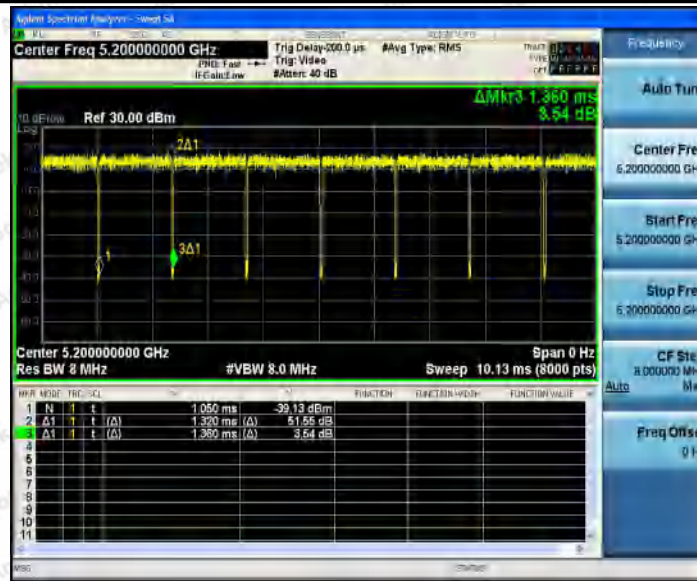
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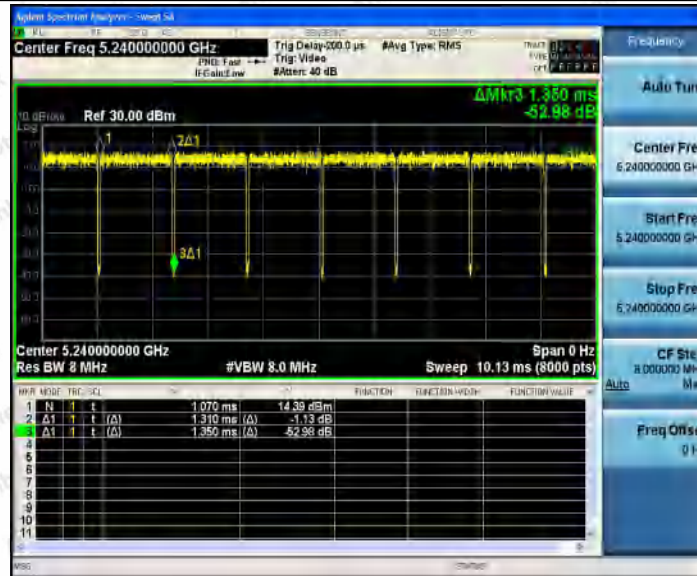
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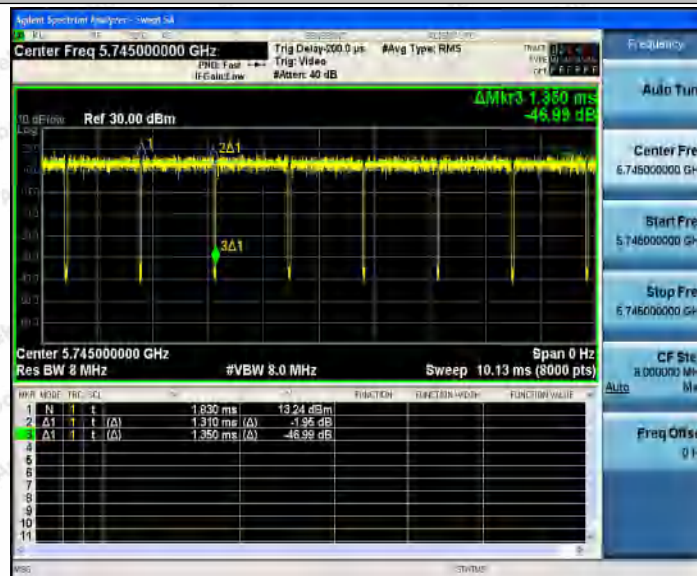
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11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



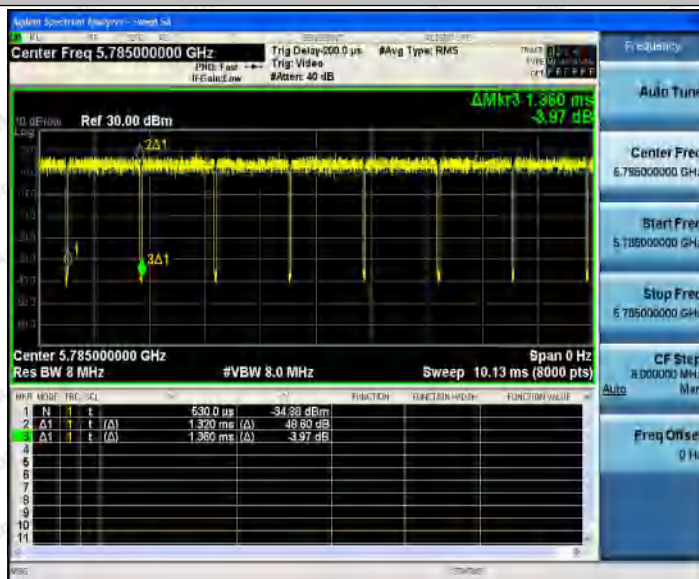
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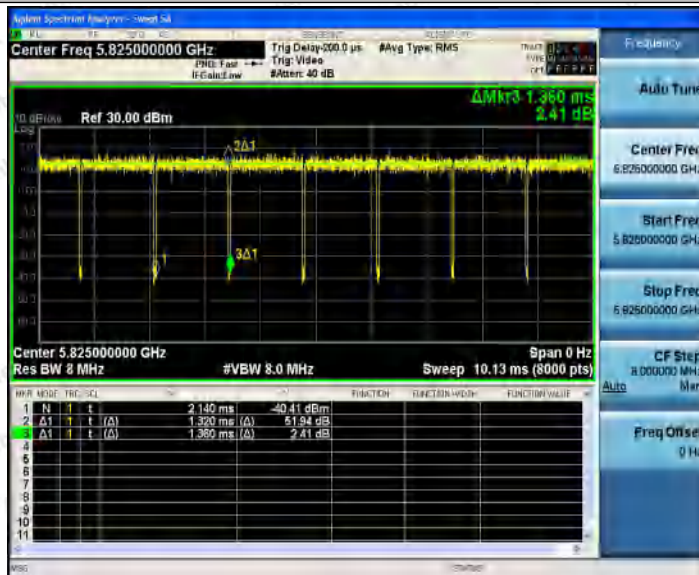
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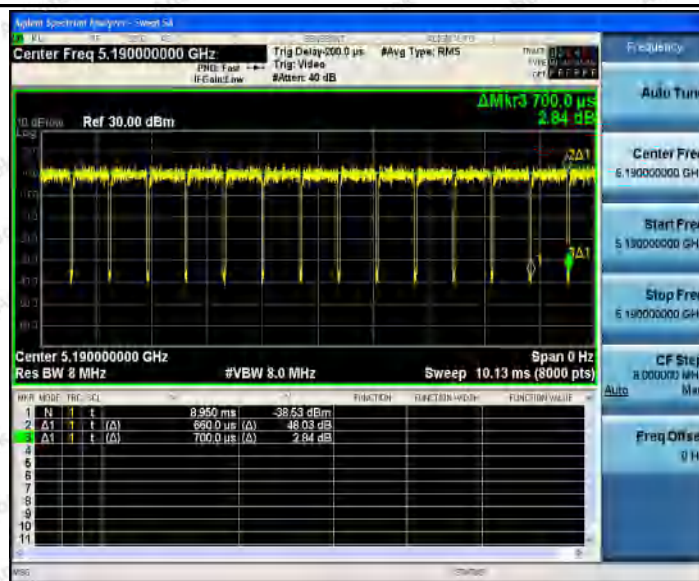
11AC20SISO_Ant1_5785



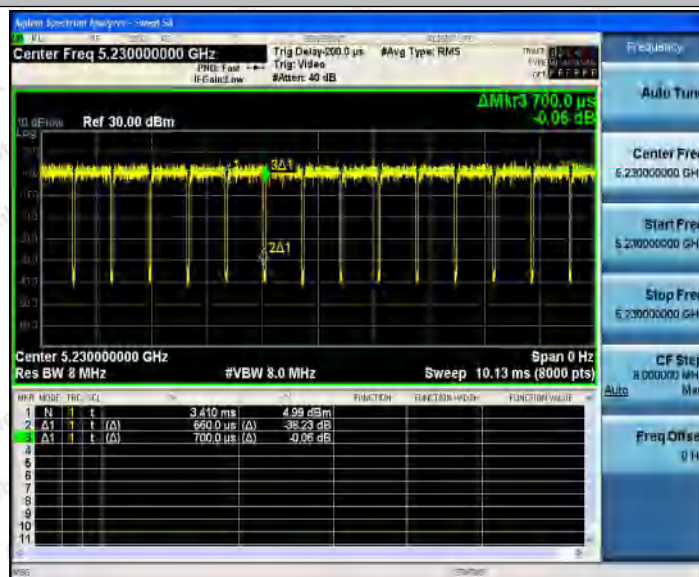
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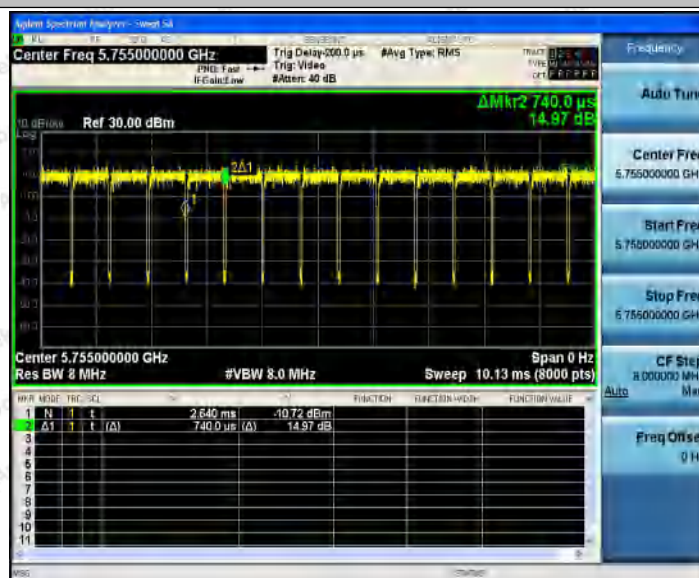
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



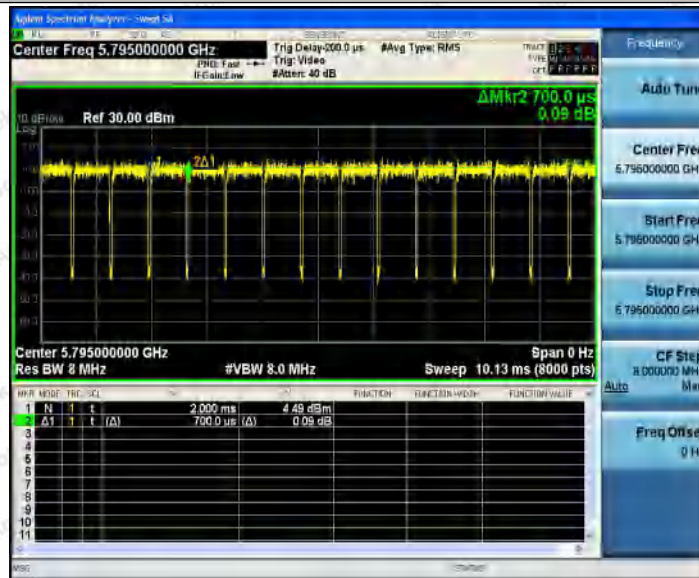
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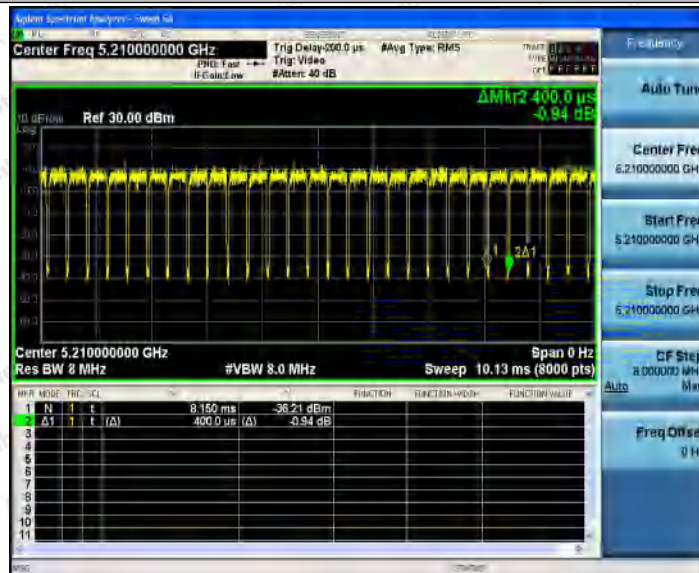
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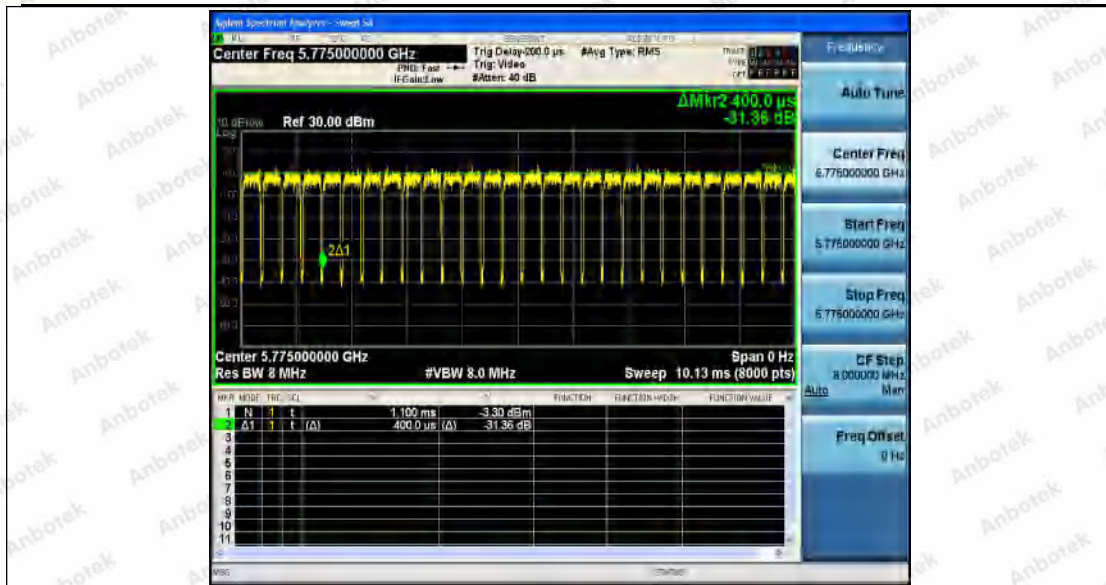
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



---End---