



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: IX90_CQA1103

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





E.1 Min emission bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.800	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.320	5816.800	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.560	5816.200	5833.760	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.560	5816.200	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AX20SISO	Ant1	5745	18.960	5735.480	5754.440	0.5	PASS
		5785	19.000	5775.480	5794.480	0.5	PASS
		5825	18.920	5815.520	5834.440	0.5	PASS
11AX40SISO	Ant1	5755	38.000	5735.960	5773.960	0.5	PASS
		5795	38.000	5776.040	5814.040	0.5	PASS

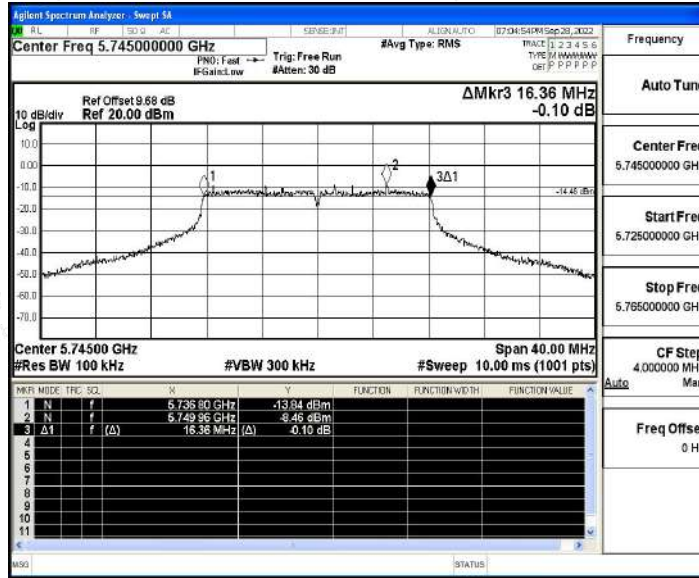


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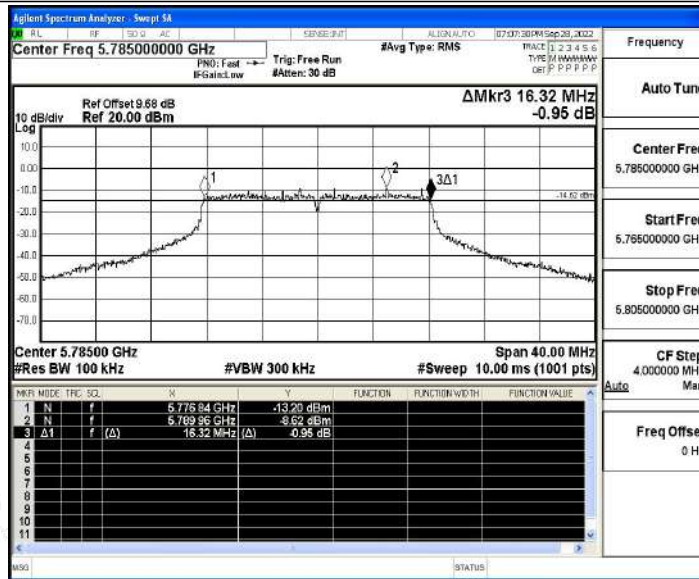


Test Graphs

11A_Ant1_5745

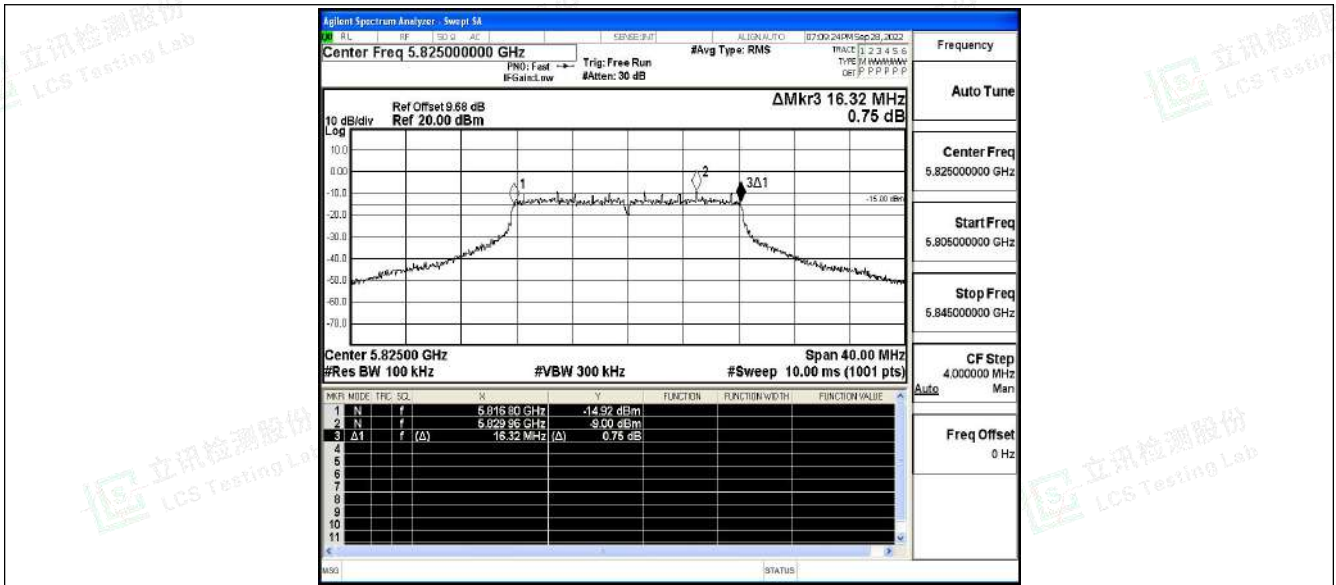


11A_Ant1_5785

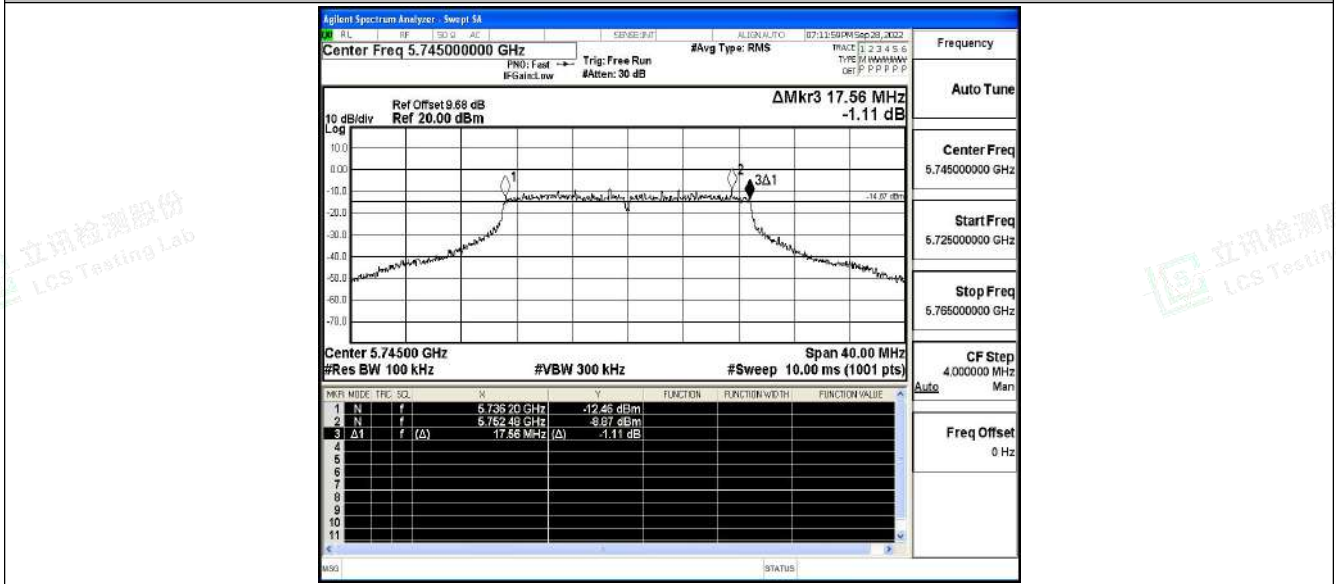


11A_Ant1_5825



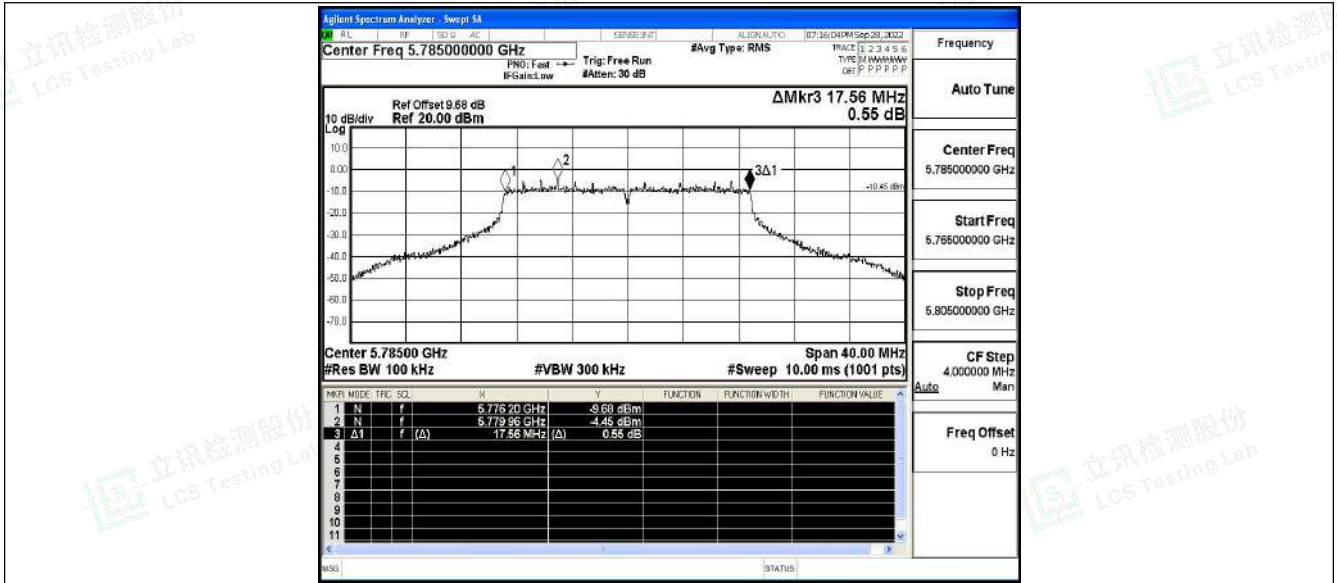


11N20SISO_Ant1_5745

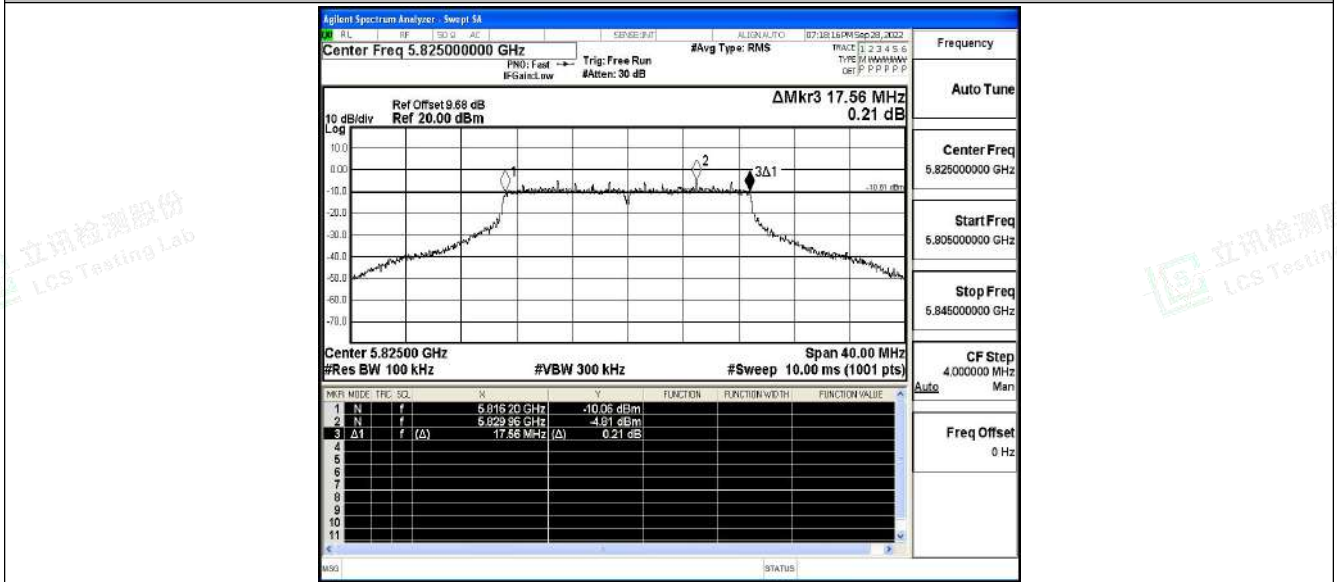


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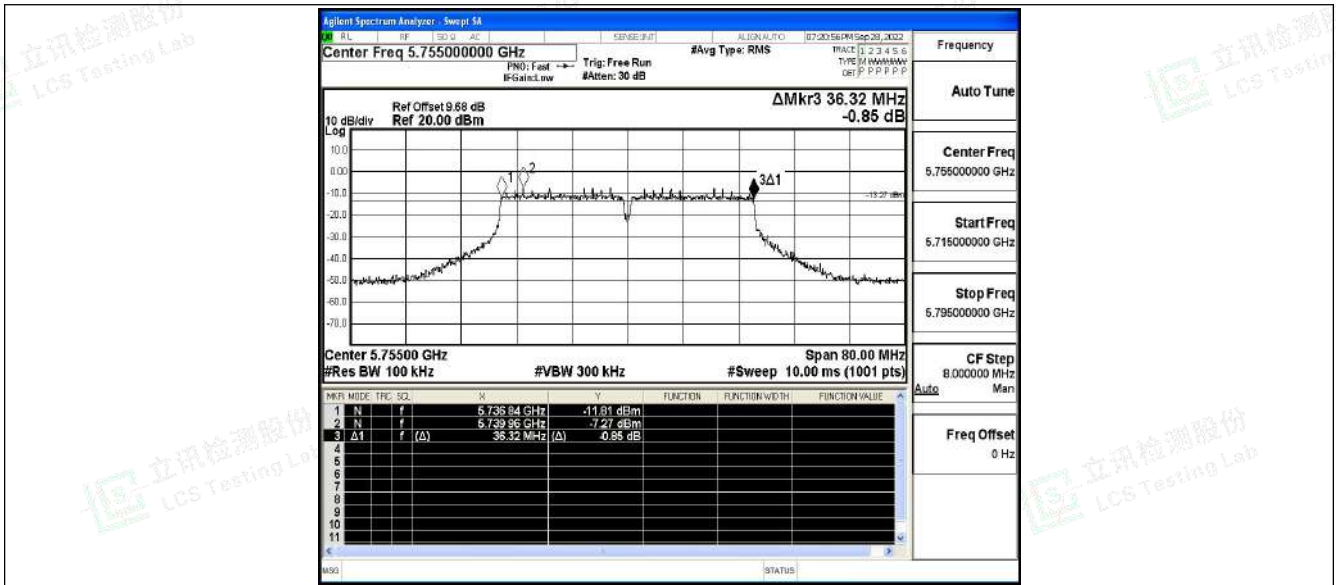


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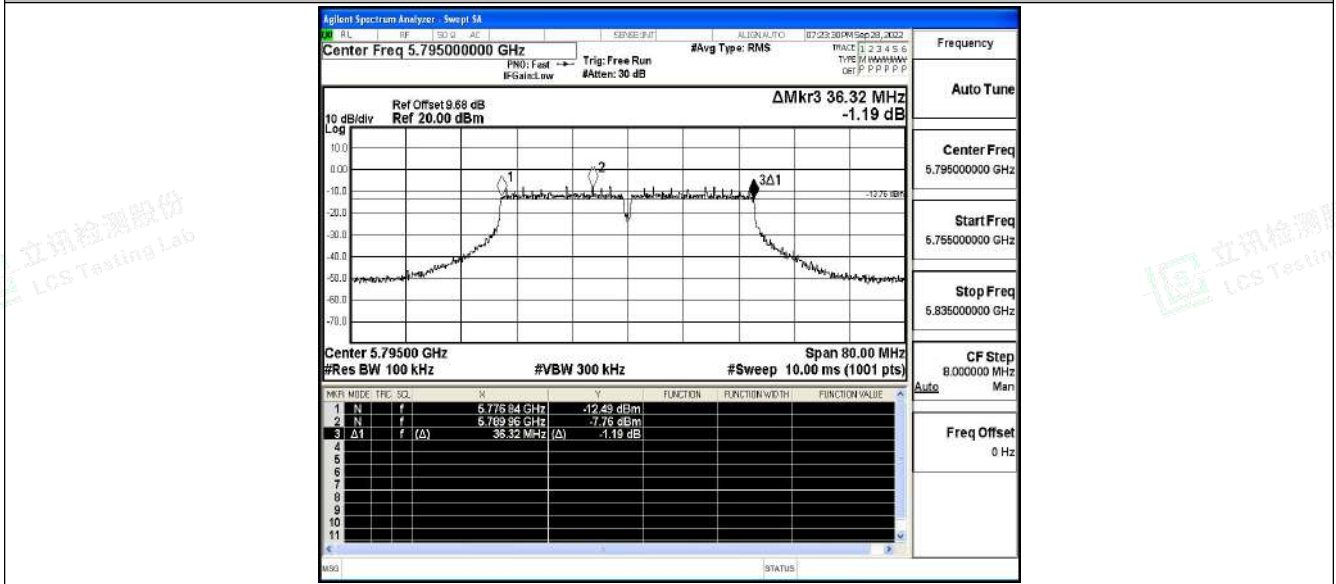


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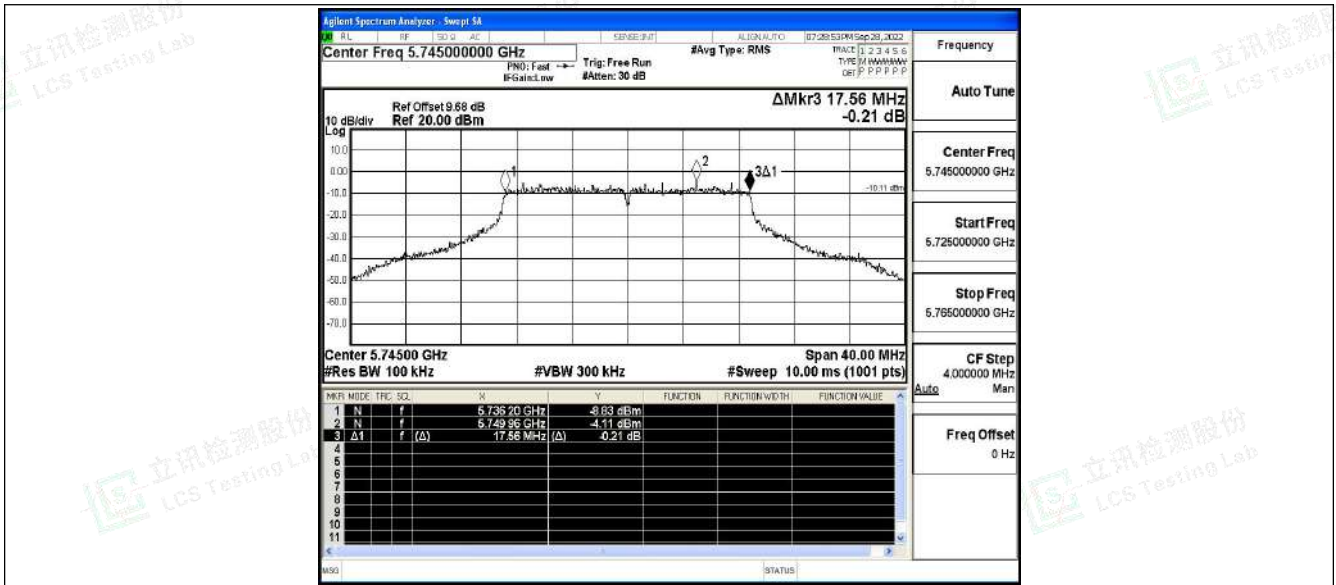


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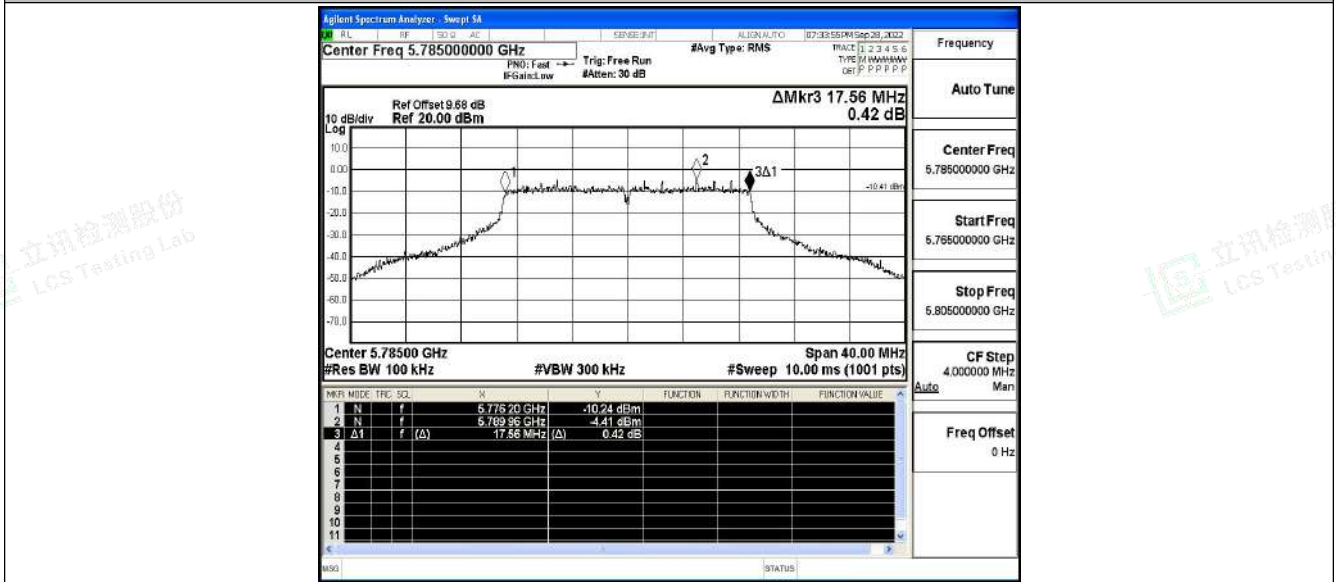


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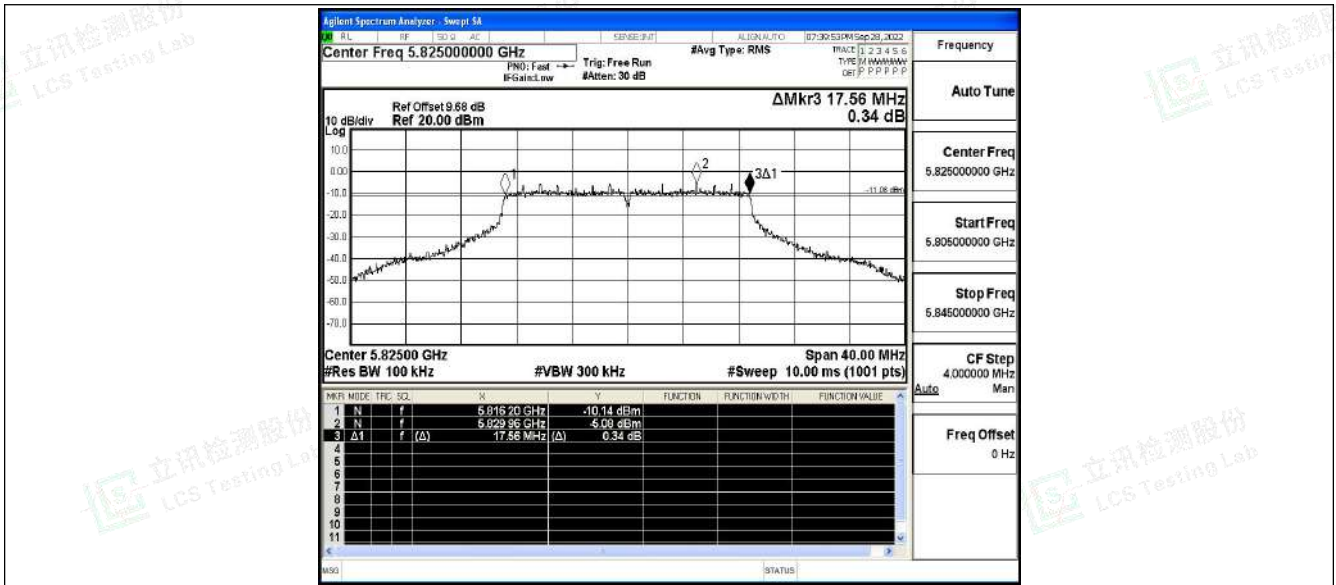


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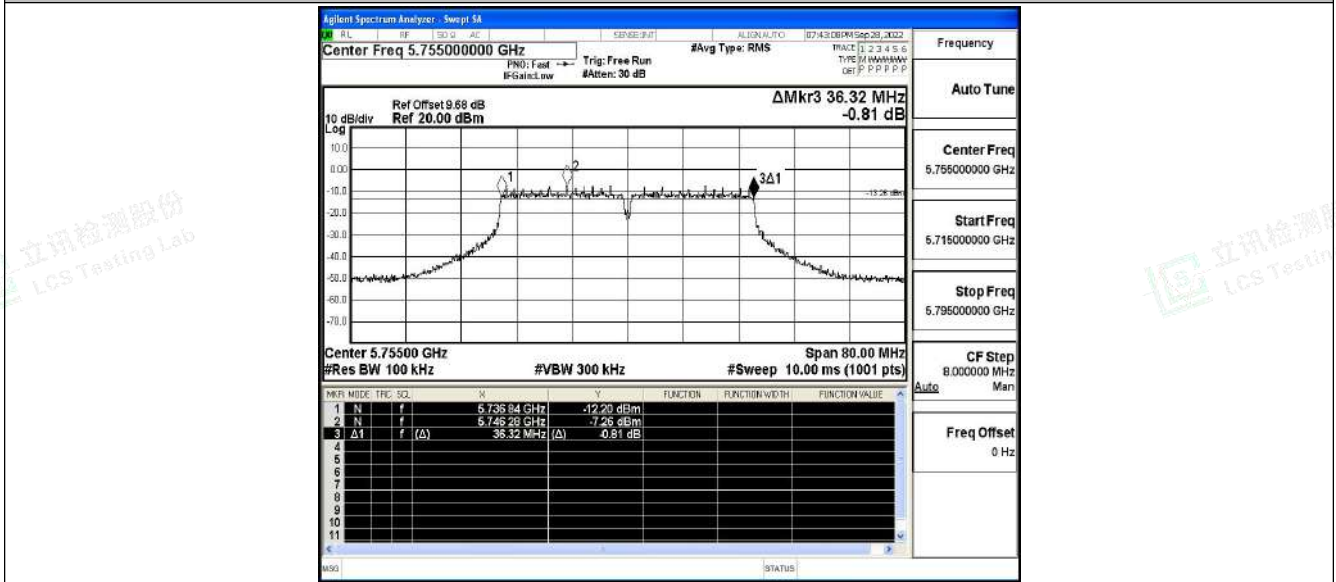


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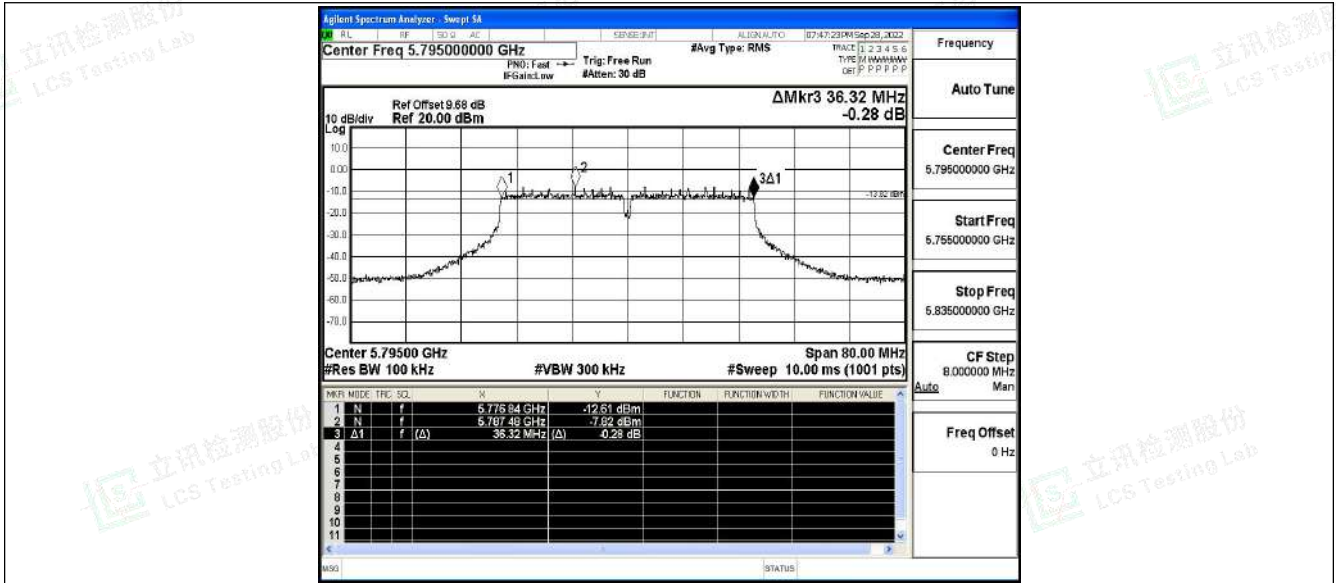


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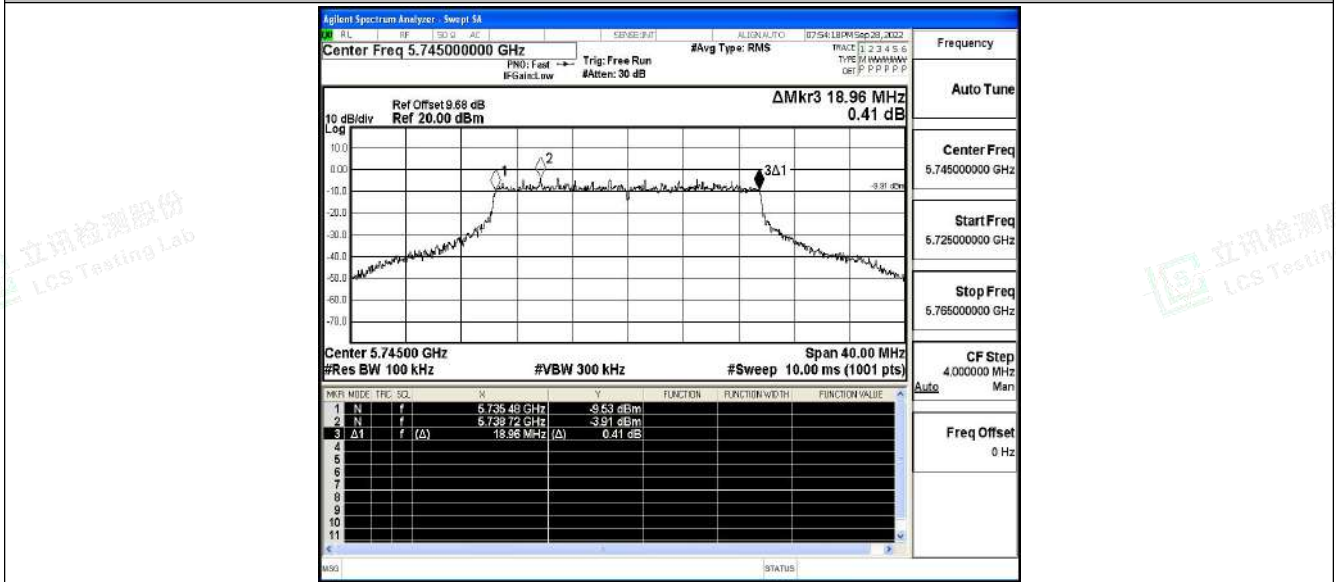


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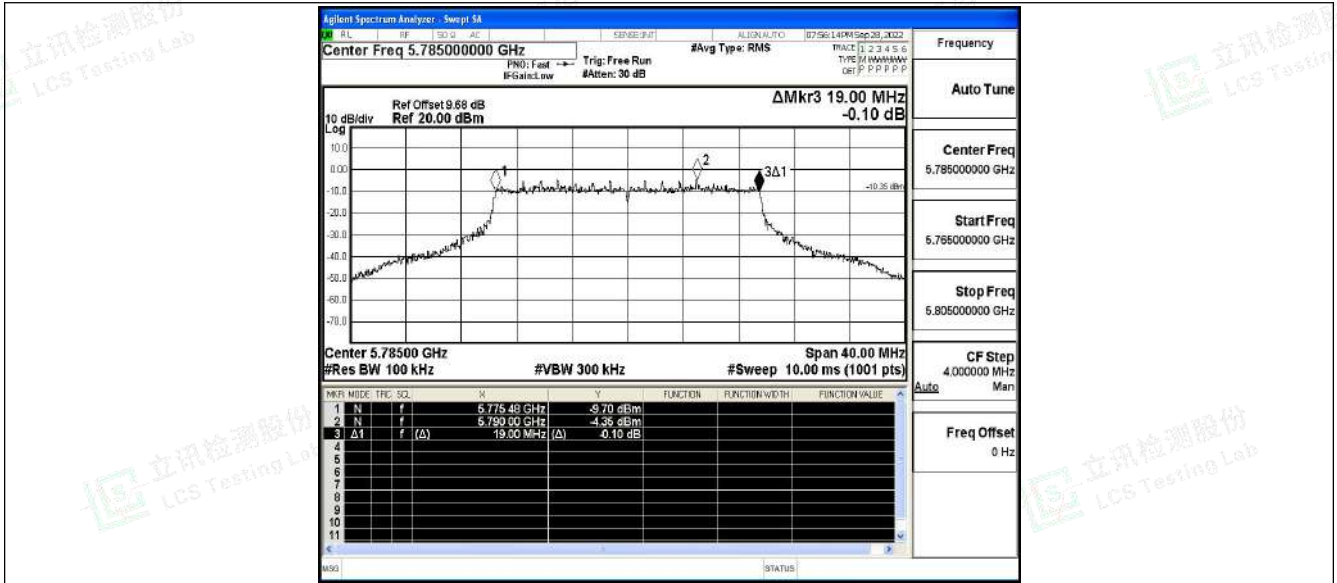


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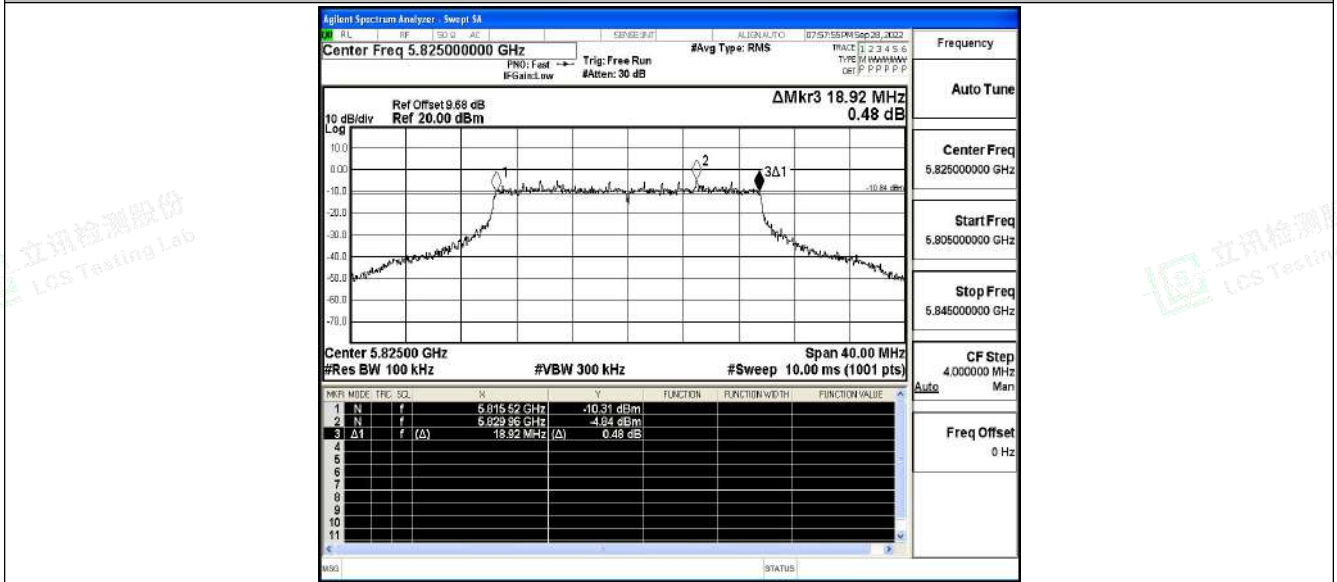


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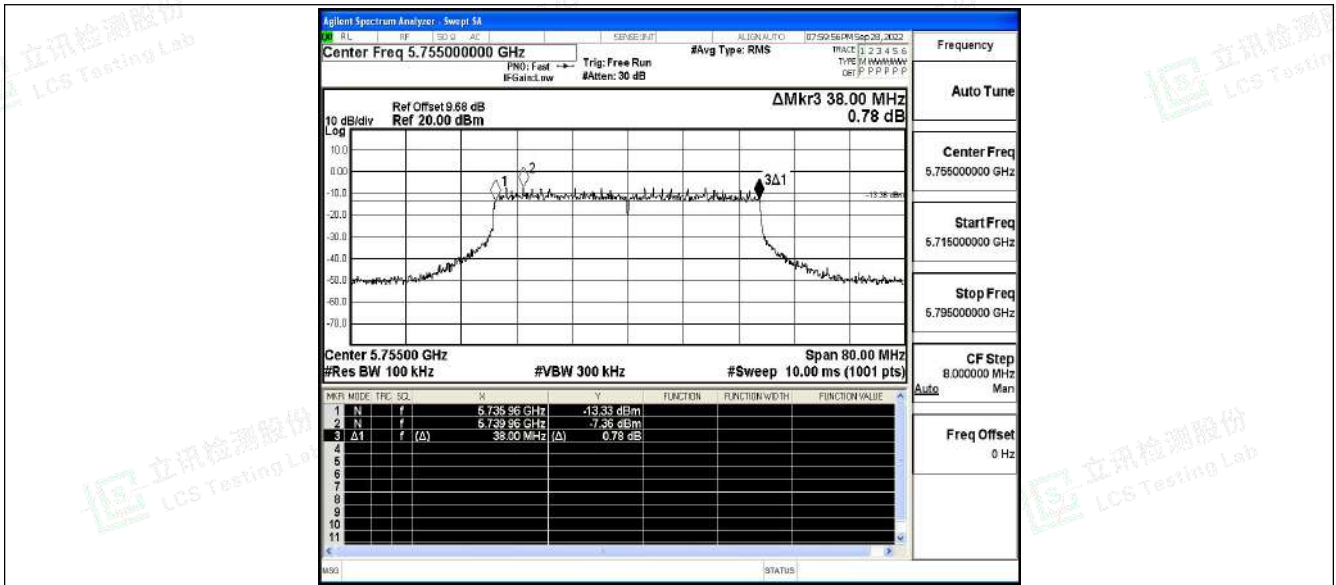


11AX20SISO_Ant1_5825

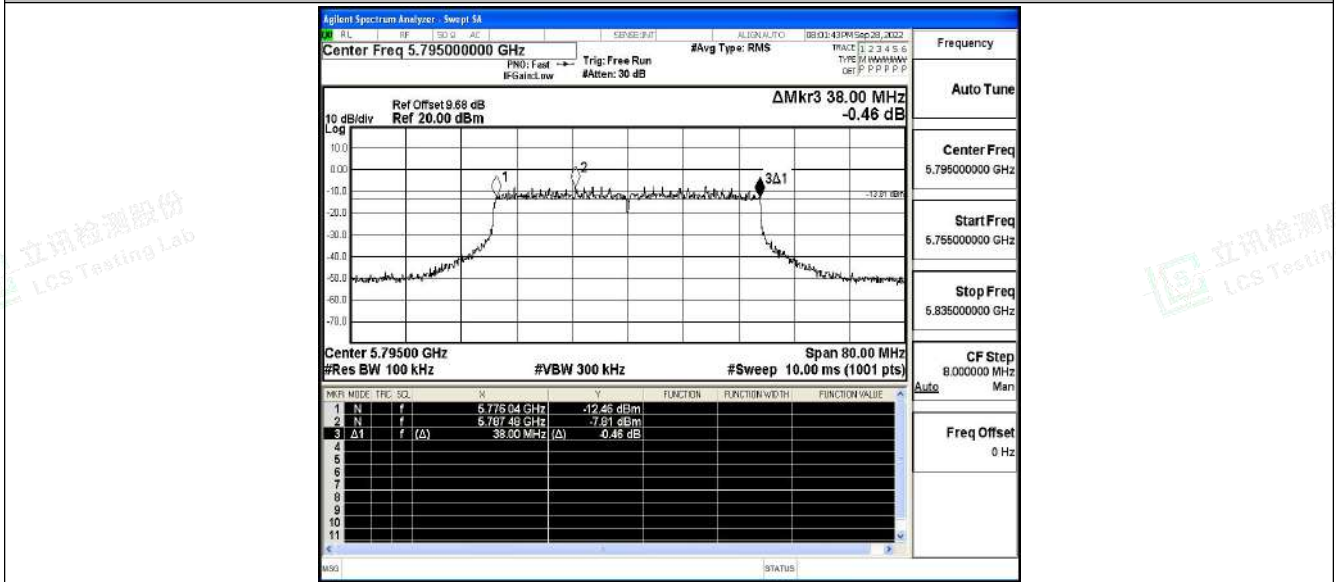


11AX40SISO_Ant1_5755





11AX40SISO_Ant1_5795





E.2 Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	7.42	97.60	0.11	7.53	≤30.00	PASS
		5785	6.91	92.27	0.35	7.26	≤30.00	PASS
		5825	6.43	96.21	0.17	6.60	≤30.00	PASS
11N20SISO	Ant1	5745	7.42	93.56	0.29	7.71	≤30.00	PASS
		5785	6.88	93.56	0.29	7.17	≤30.00	PASS
		5825	6.33	92.68	0.33	6.66	≤30.00	PASS
11N40SISO	Ant1	5755	6.81	91.18	0.40	7.21	≤30.00	PASS
		5795	6.44	85.45	0.68	7.12	≤30.00	PASS
11AC20SISO	Ant1	5745	7.21	92.23	0.35	7.56	≤30.00	PASS
		5785	6.79	93.56	0.29	7.08	≤30.00	PASS
		5825	6.38	93.60	0.29	6.67	≤30.00	PASS
11AC40SISO	Ant1	5755	6.84	92.08	0.36	7.20	≤30.00	PASS
		5795	6.46	89.42	0.49	6.95	≤30.00	PASS
11AX20SISO	Ant1	5745	7.32	89.51	0.48	7.80	≤30.00	PASS
		5785	6.83	90.06	0.45	7.28	≤30.00	PASS
		5825	6.29	89.51	0.48	6.77	≤30.00	PASS
11AX40SISO	Ant1	5755	6.80	94.94	0.23	7.03	≤30.00	PASS
		5795	6.36	86.21	0.64	7.00	≤30.00	PASS

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





E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/500kHz]	Limit[dBm/500kHz]	Verdict
11A	Ant1	5745	-6.47	≤30.00	PASS
		5785	-6.9	≤30.00	PASS
		5825	-7.52	≤30.00	PASS
11N20SISO	Ant1	5745	-6.55	≤30.00	PASS
		5785	-7.27	≤30.00	PASS
		5825	-7.72	≤30.00	PASS
11N40SISO	Ant1	5755	-10.44	≤30.00	PASS
		5795	-10.57	≤30.00	PASS
11AC20SISO	Ant1	5745	-6.66	≤30.00	PASS
		5785	-7.36	≤30.00	PASS
		5825	-7.65	≤30.00	PASS
11AC40SISO	Ant1	5755	-10.37	≤30.00	PASS
		5795	-10.61	≤30.00	PASS
11AX20SISO	Ant1	5745	-6.87	≤30.00	PASS
		5785	-7.44	≤30.00	PASS
		5825	-7.97	≤30.00	PASS
11AX40SISO	Ant1	5755	-10.79	≤30.00	PASS
		5795	-10.92	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

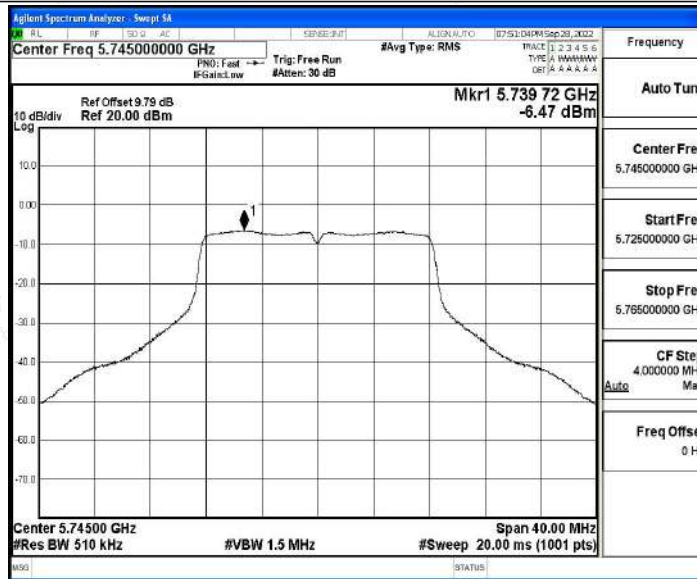


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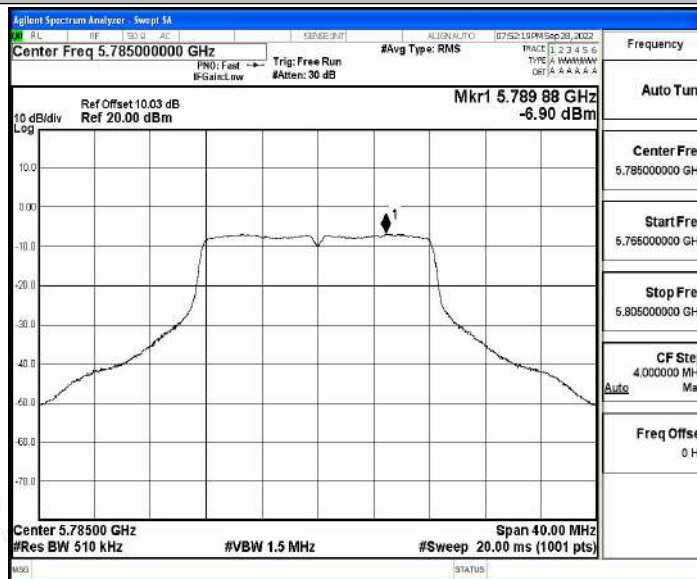


Test Graphs

11A_Ant1_5745

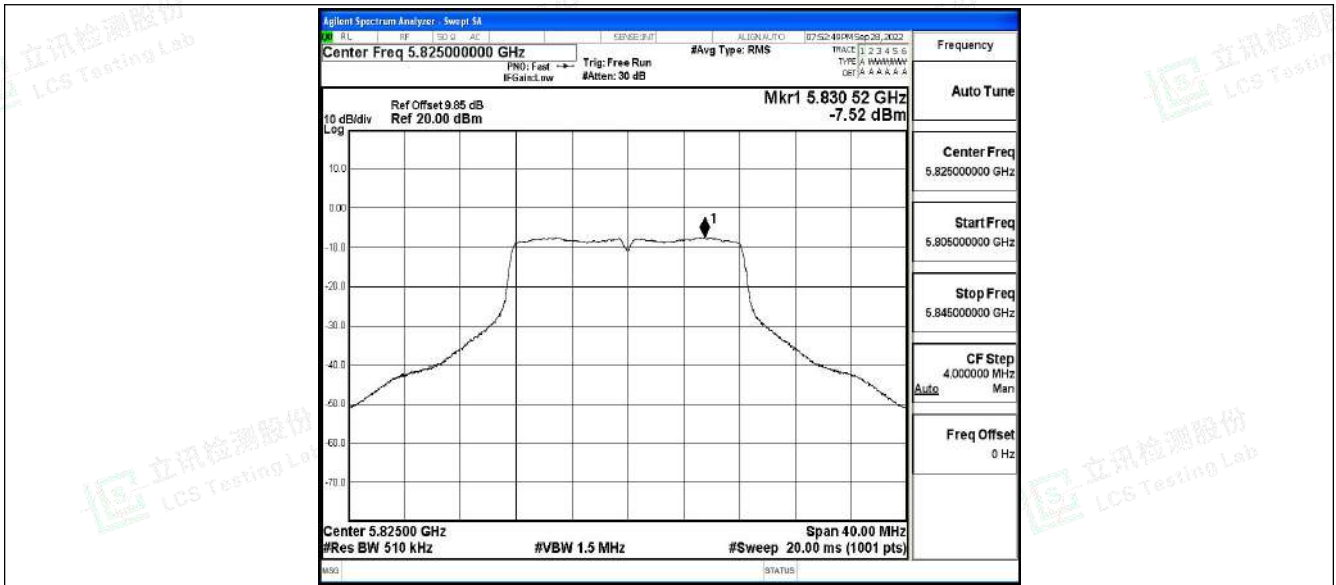


11A_Ant1_5785

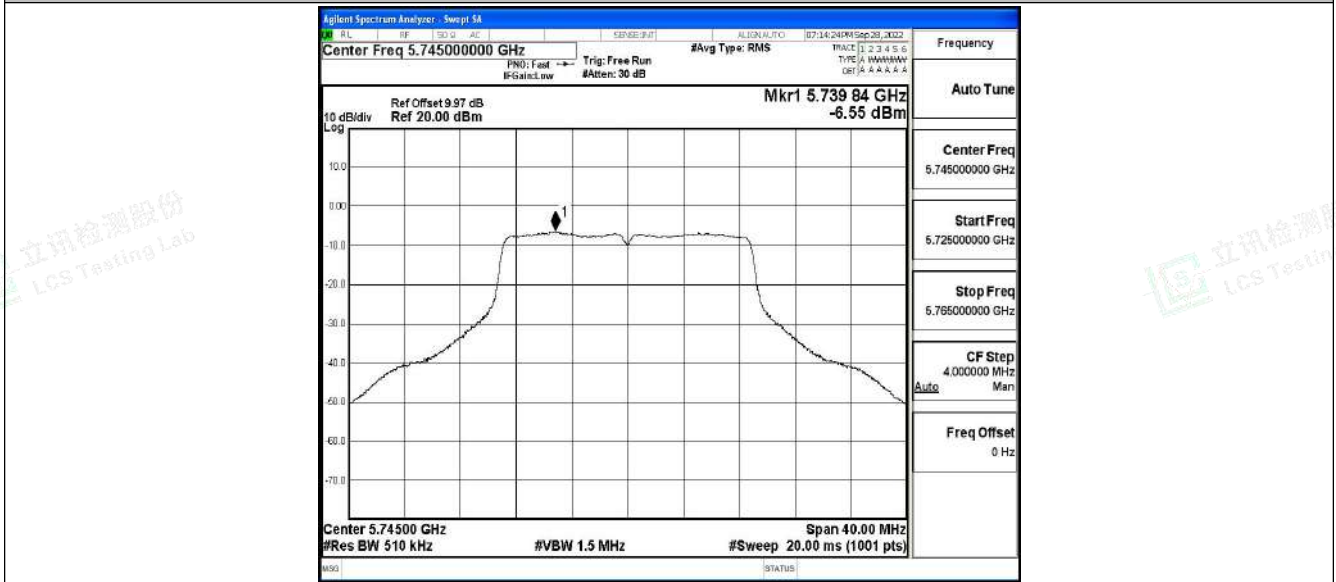


11A_Ant1_5825



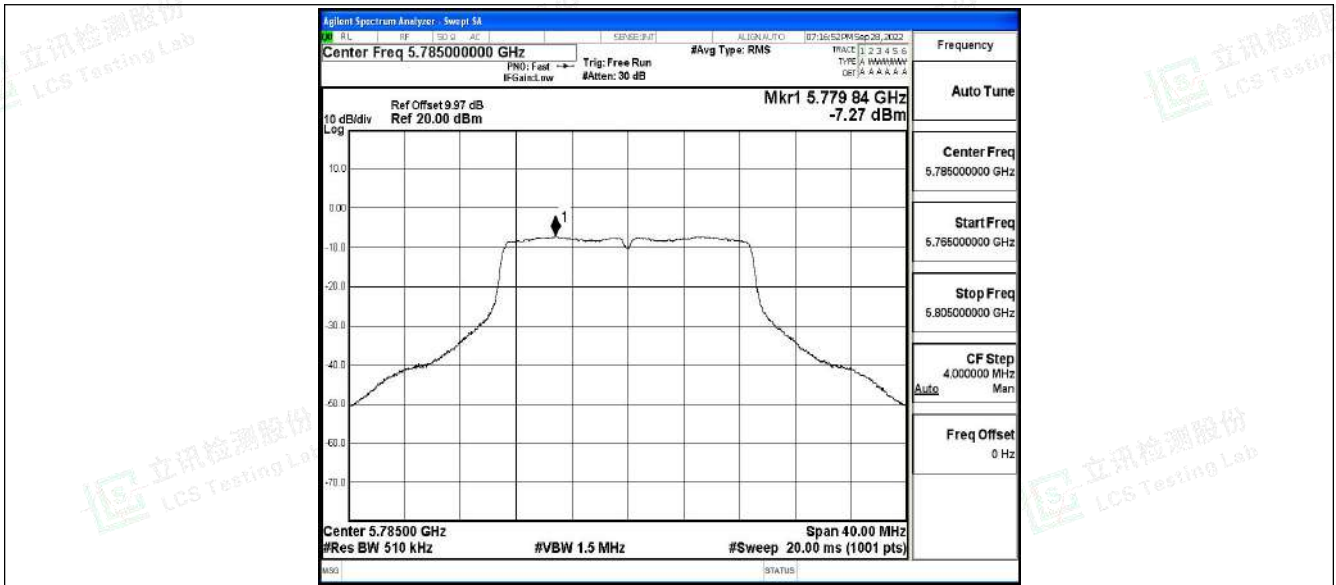


11N20SISO_Ant1_5745

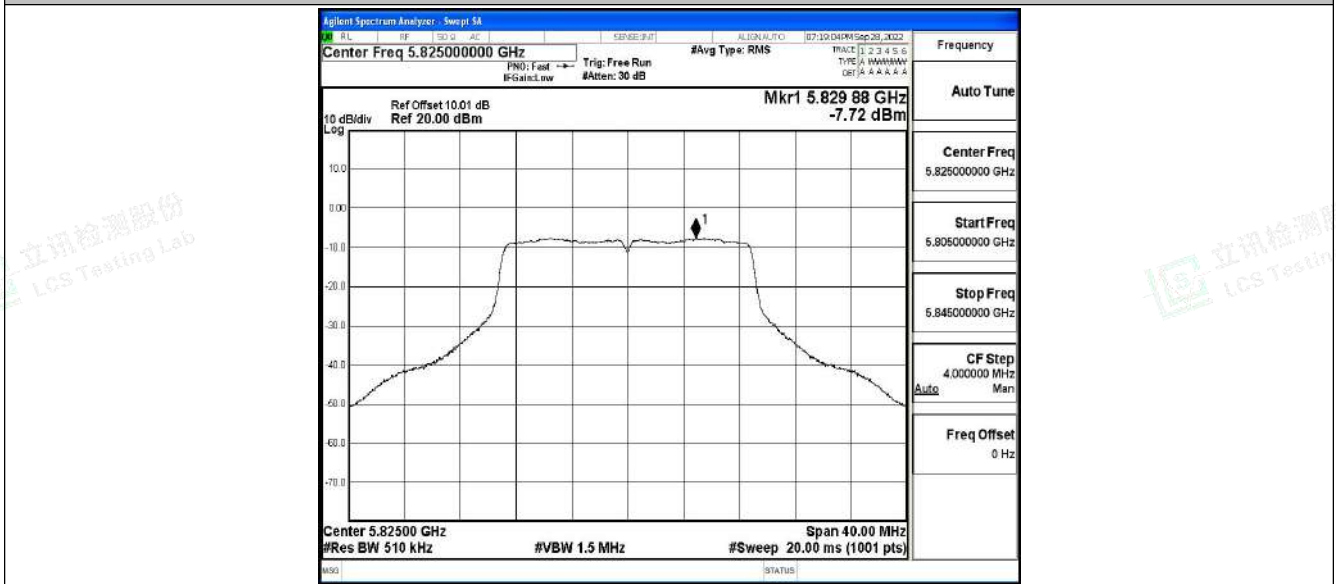


11N20SISO_Ant1_5785



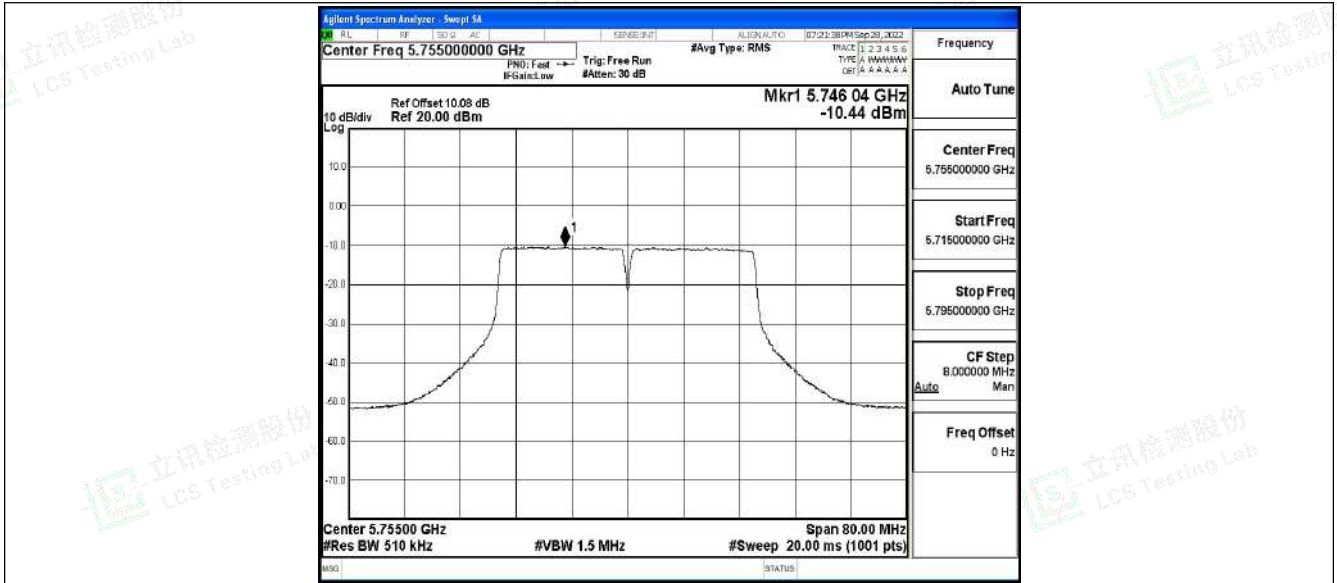


11N20SISO_Ant1_5825

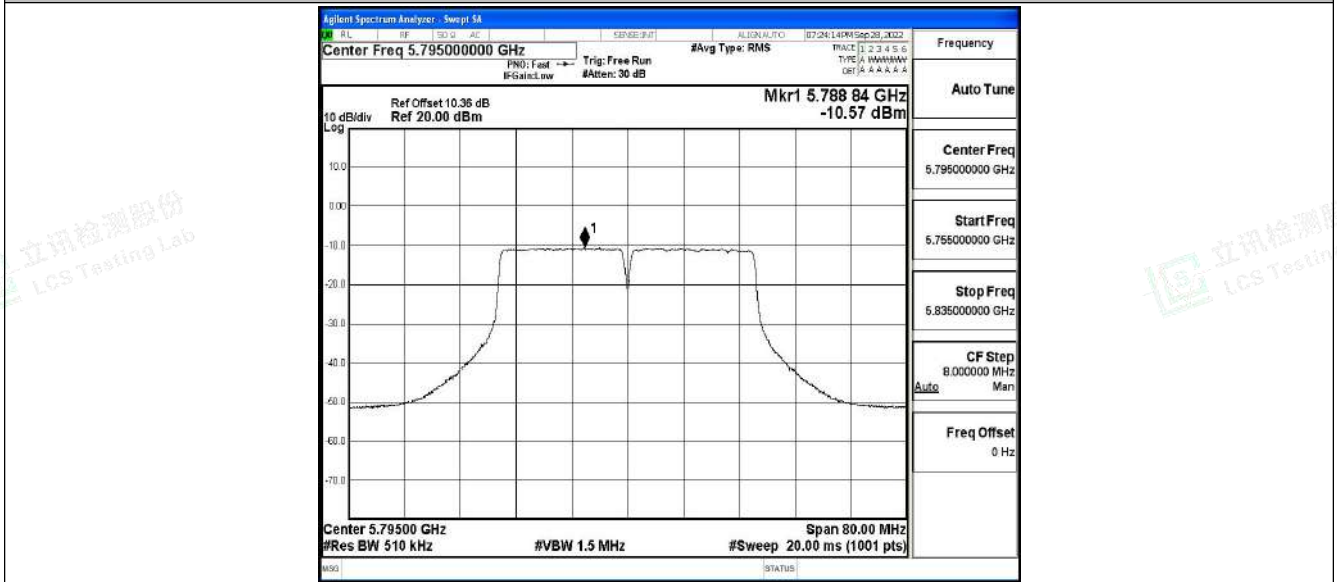


11N40SISO_Ant1_5755



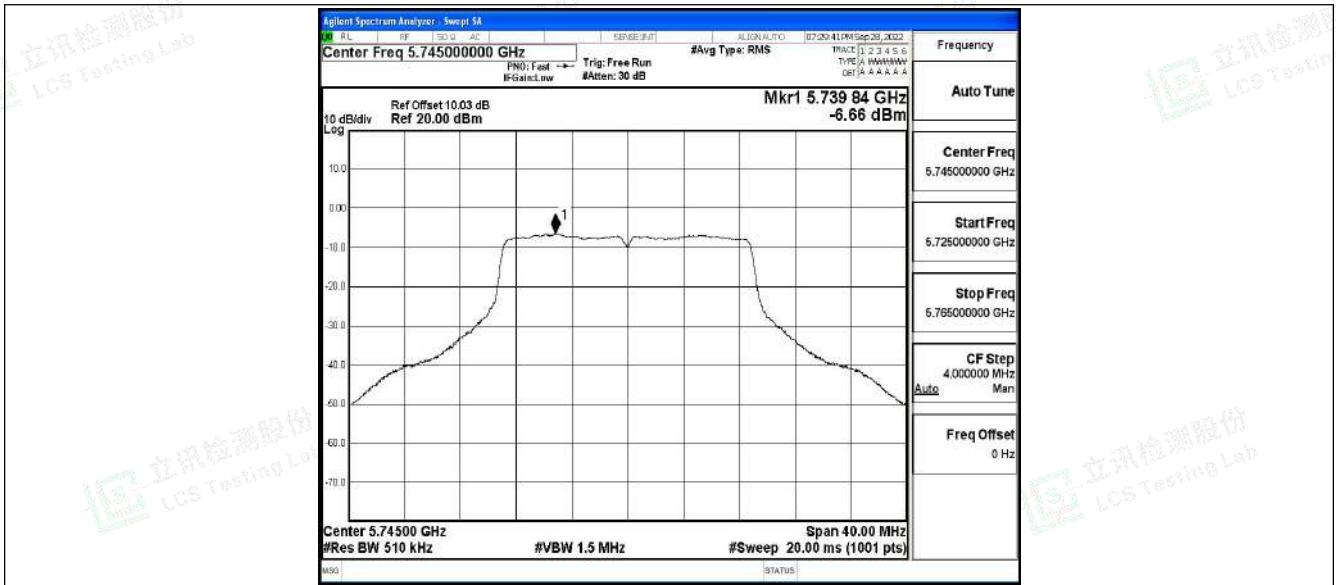


11N40SISO_Ant1_5795

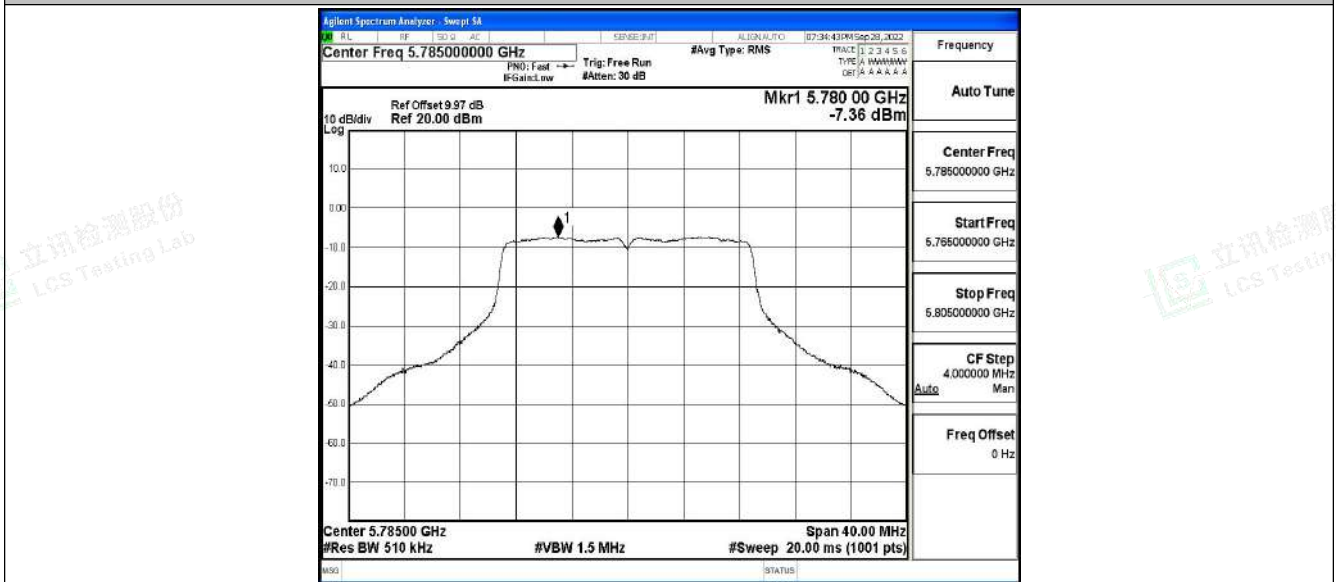


11A20SISO_Ant1_5745



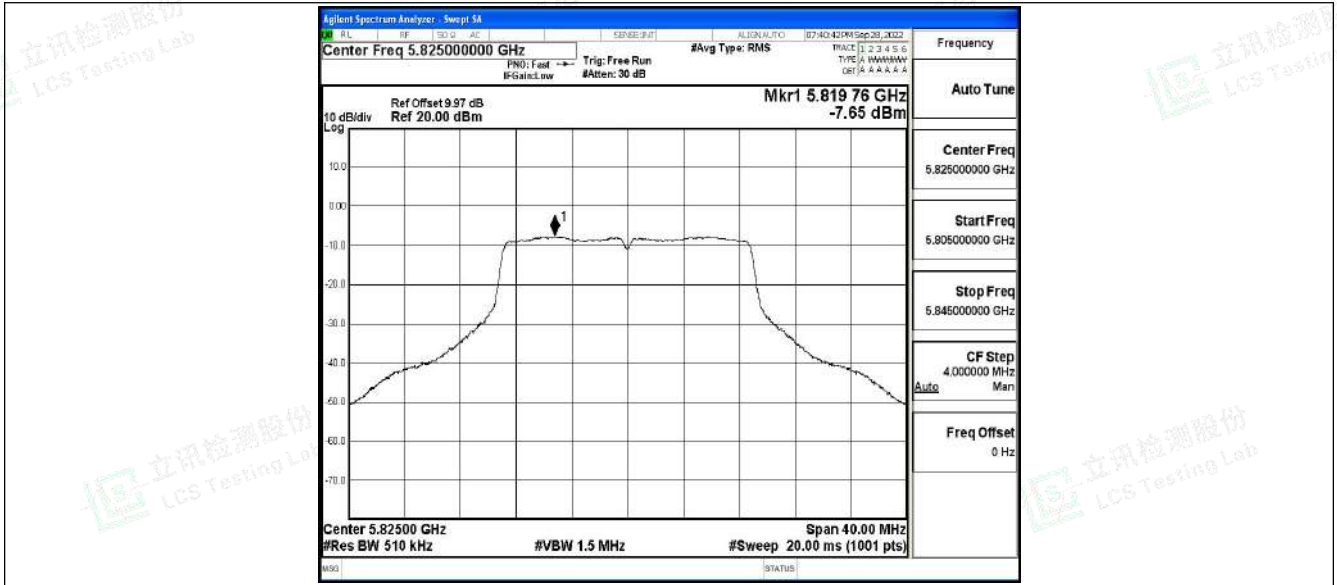


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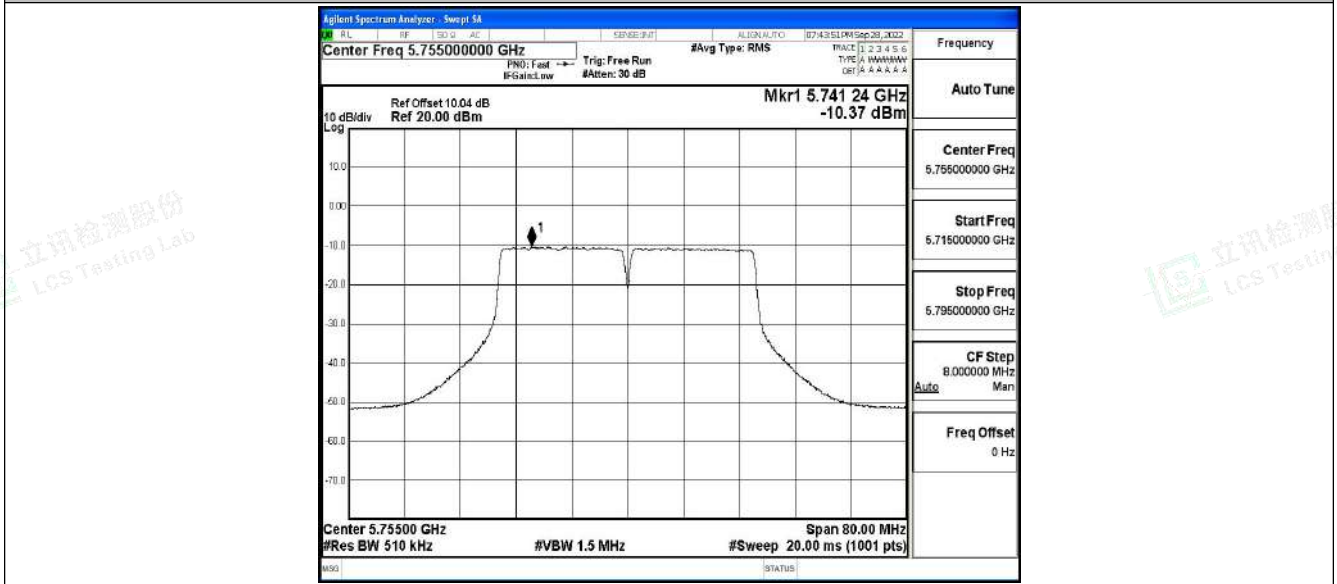


11AC20SISO_Ant1_5825



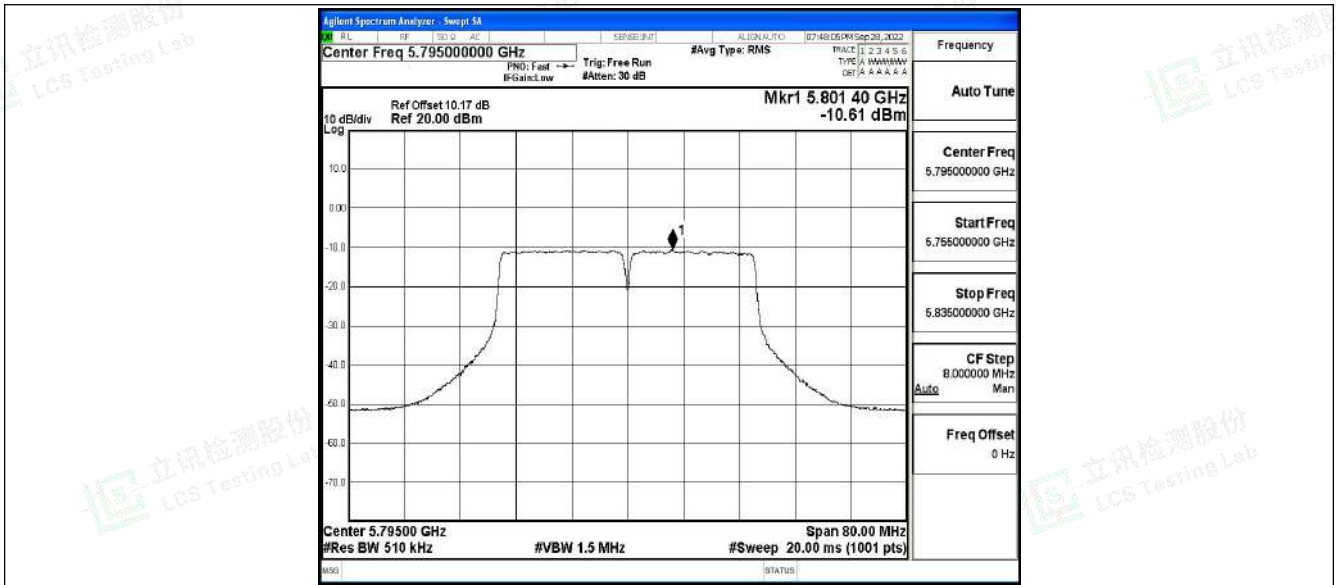


11AC40SISO_Ant1_5755

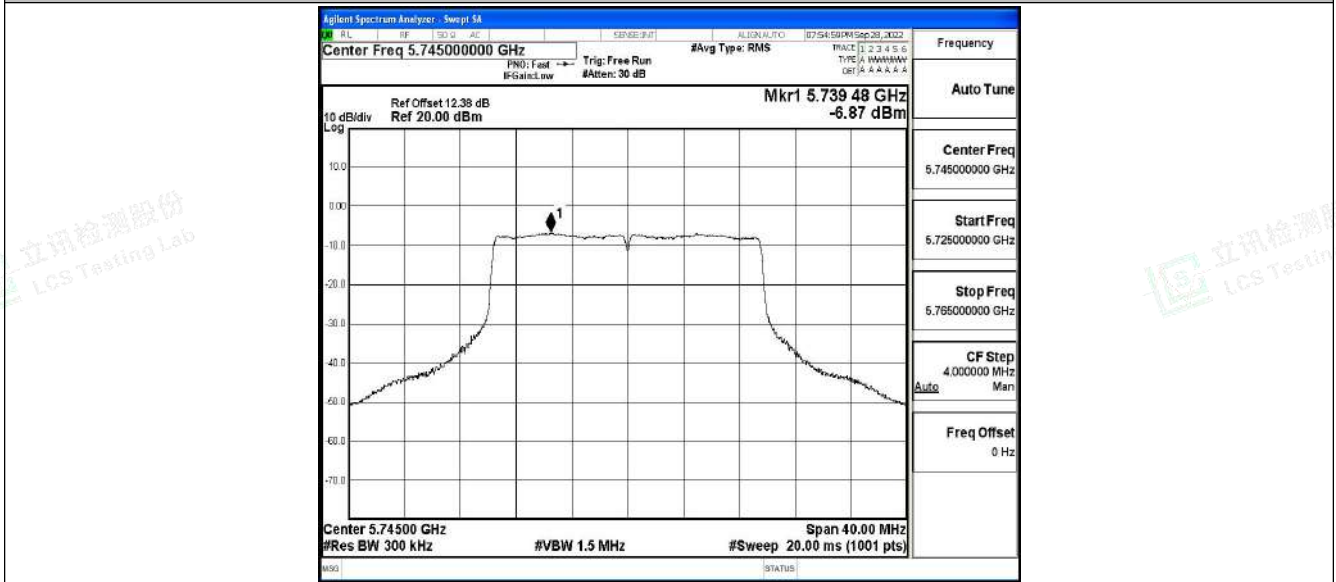


11AC40SISO_Ant1_5795



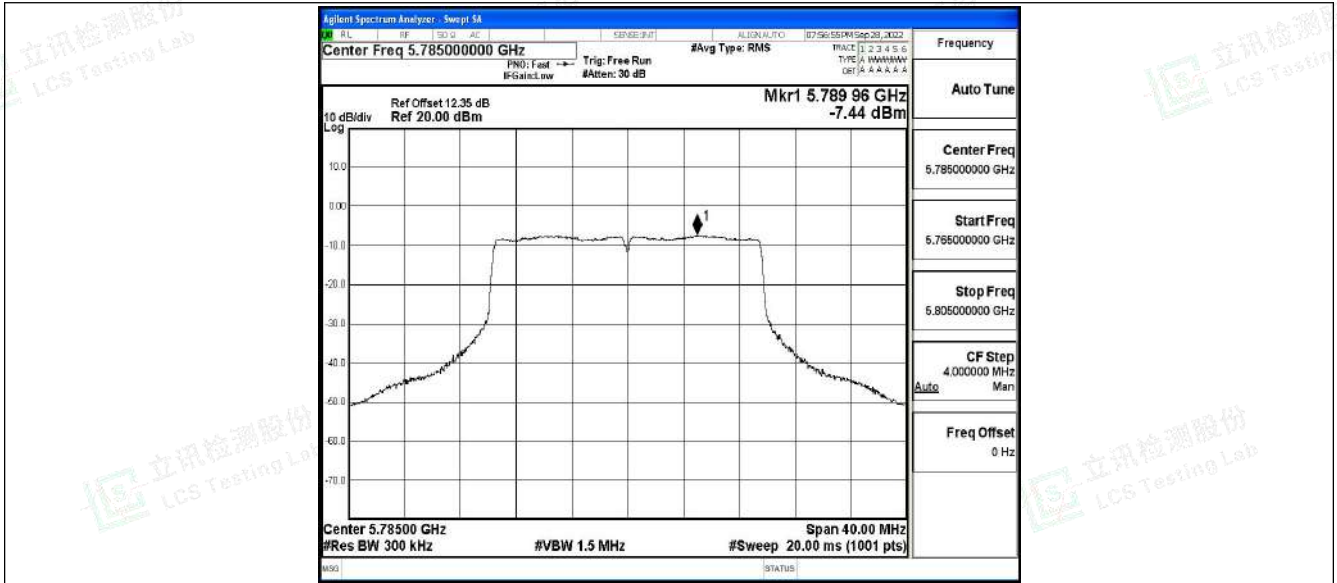


11AX20SISO_Ant1_5745

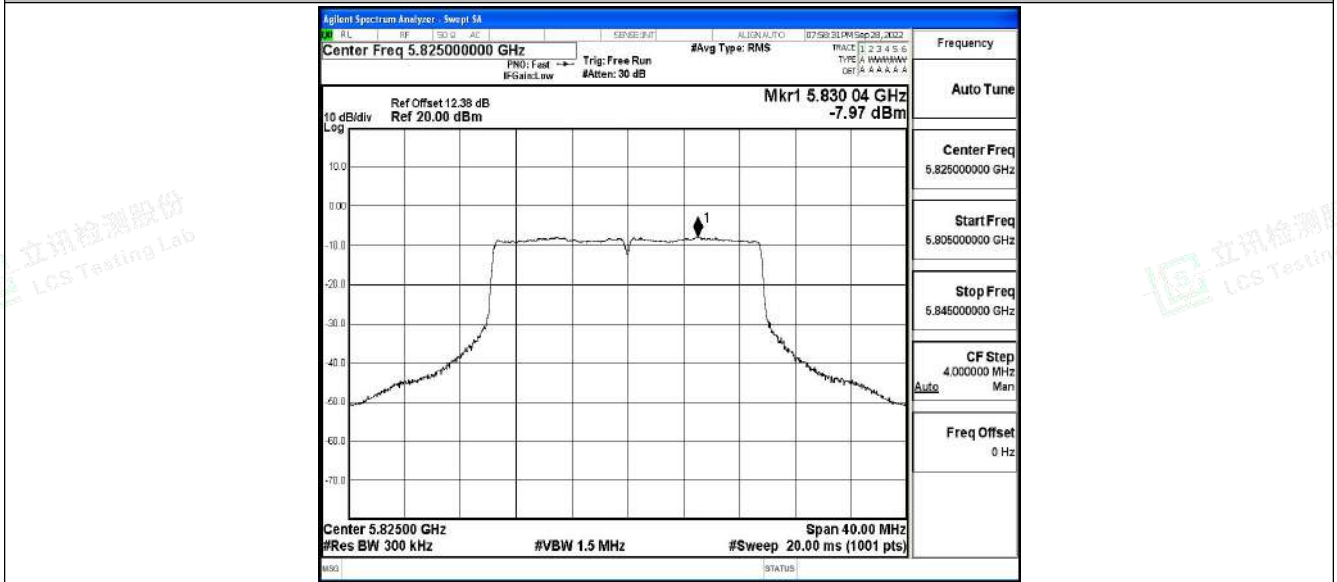


11AX20SISO_Ant1_5785



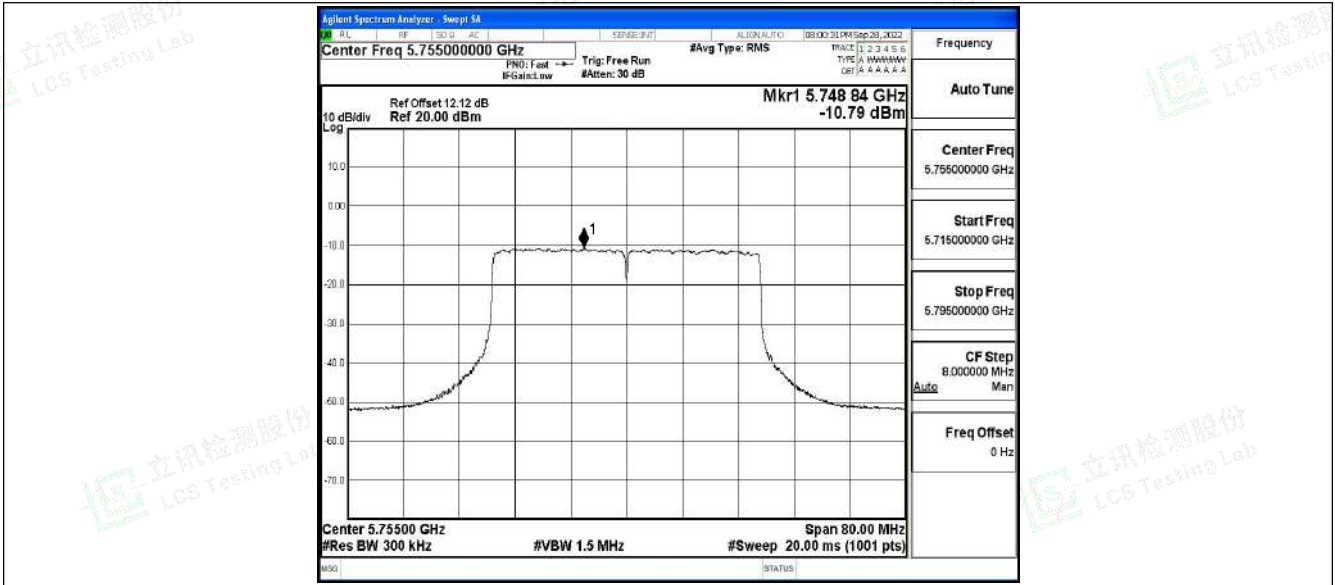


11AX20SISO_Ant1_5825

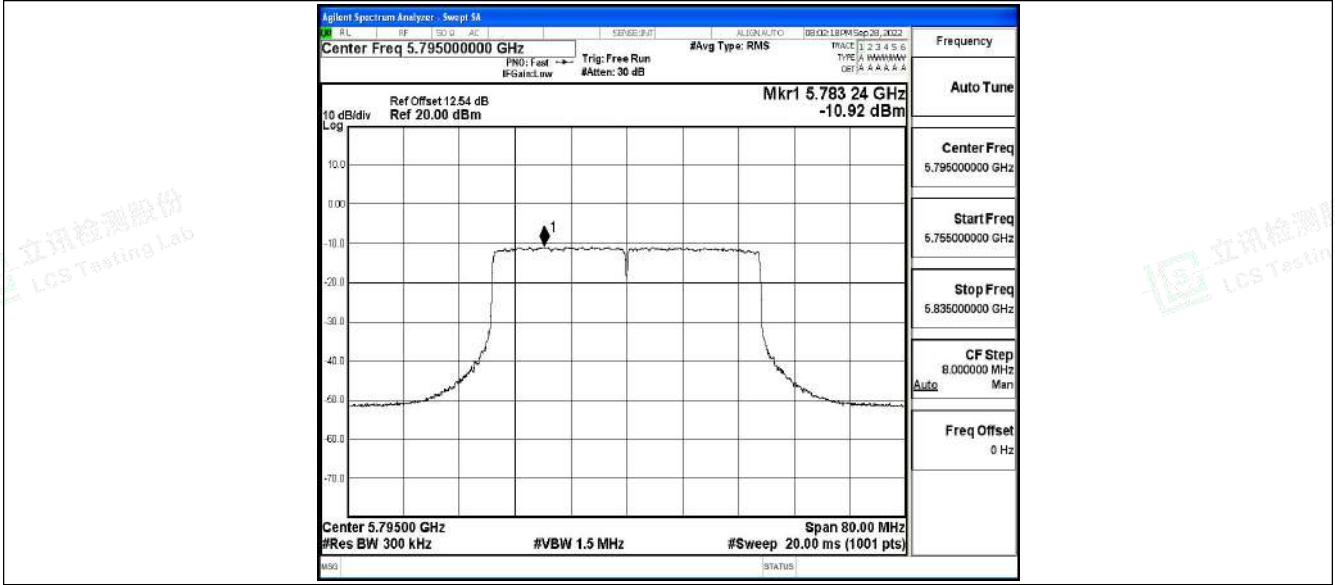


11AX40SISO_Ant1_5755





11AX40SISO_Ant1_5795





E.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-41.81	≤-27.00	PASS
				Peak	5700.000	-40.13	≤10.00	PASS
				Peak	5720.000	-39.74	≤15.60	PASS
				Peak	5725.000	-46.08	≤27.00	PASS
		High	5825	Peak	5850.000	-41.33	≤27.00	PASS
				Peak	5855.000	-42.08	≤15.60	PASS
				Peak	5875.000	-43.2	≤10.00	PASS
				Peak	5925.000	-41.91	≤-27.00	PASS
11N20SI SO	Ant1	Low	5745	Peak	5650.000	-40.784	≤-27.00	PASS
				Peak	5700.000	-41.53	≤10.00	PASS
				Peak	5720.000	-40	≤15.60	PASS
				Peak	5725.000	-44.68	≤27.00	PASS
		High	5825	Peak	5850.000	-43.024	≤27.00	PASS
				Peak	5855.000	-43.86	≤15.60	PASS
				Peak	5875.000	-44.31	≤10.00	PASS
				Peak	5925.000	-41.75	≤-27.00	PASS
11N40SI SO	Ant1	Low	5755	Peak	5650.000	-44.125	≤-27.00	PASS
				Peak	5700.000	-40.2	≤10.00	PASS
				Peak	5720.000	-46.37	≤15.60	PASS
				Peak	5725.000	-40.43	≤27.00	PASS
		High	5795	Peak	5850.000	-45.923	≤27.00	PASS
				Peak	5855.000	-40.58	≤15.60	PASS
				Peak	5875.000	-45.12	≤10.00	PASS
				Peak	5925.000	-44	≤-27.00	PASS
11AC20S ISO	Ant1	Low	5745	Peak	5650.000	-40.432	≤-27.00	PASS
				Peak	5700.000	-43.9	≤10.00	PASS
				Peak	5720.000	-40.53	≤15.60	PASS
				Peak	5725.000	-40.83	≤27.00	PASS
		High	5825	Peak	5850.000	-43.487	≤27.00	PASS
				Peak	5855.000	-45.41	≤15.60	PASS
				Peak	5875.000	-43.98	≤10.00	PASS
				Peak	5925.000	-44.22	≤-27.00	PASS
11AC40S ISO	Ant1	Low	5755	Peak	5650.000	-44.371	≤-27.00	PASS
				Peak	5700.000	-43.76	≤10.00	PASS
				Peak	5720.000	-38.88	≤15.60	PASS



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		High	5795	Peak	5725.000	-45.37	≤27.00	PASS
				Peak	5850.000	-42.708	≤27.00	PASS
				Peak	5855.000	-42.58	≤15.60	PASS
				Peak	5875.000	-41.98	≤10.00	PASS
				Peak	5925.000	-42.69	≤-27.00	PASS
11AX20SI SO	Ant1	Low	5745	Peak	5650.000	-50.044	≤-27.00	PASS
				Peak	5700.000	-53.09	≤10.00	PASS
				Peak	5720.000	-49.09	≤15.60	PASS
				Peak	5725.000	-49.09	≤27.00	PASS
		High	5825	Peak	5850.000	-47.61	≤27.00	PASS
				Peak	5855.000	-50.06	≤15.60	PASS
				Peak	5875.000	-54.76	≤10.00	PASS
				Peak	5925.000	-53.18	≤-27.00	PASS
11AX40SI SO	Ant1	Low	5755	Peak	5650.000	-49.184	≤-27.00	PASS
				Peak	5700.000	-50.25	≤10.00	PASS
				Peak	5720.000	-48.96	≤15.60	PASS
				Peak	5725.000	-51.65	≤27.00	PASS
		High	5795	Peak	5850.000	-52.259	≤27.00	PASS
				Peak	5855.000	-50.79	≤15.60	PASS
				Peak	5875.000	-50.53	≤10.00	PASS
				Peak	5925.000	-52.45	≤-27.00	PASS

Note:

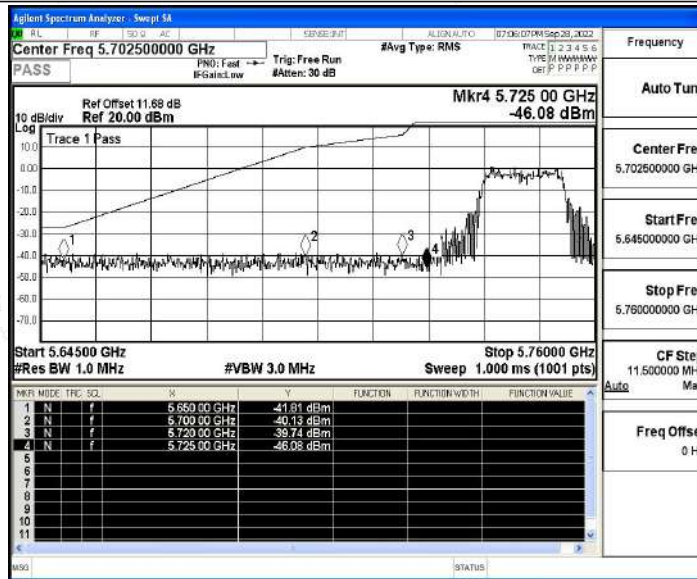
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



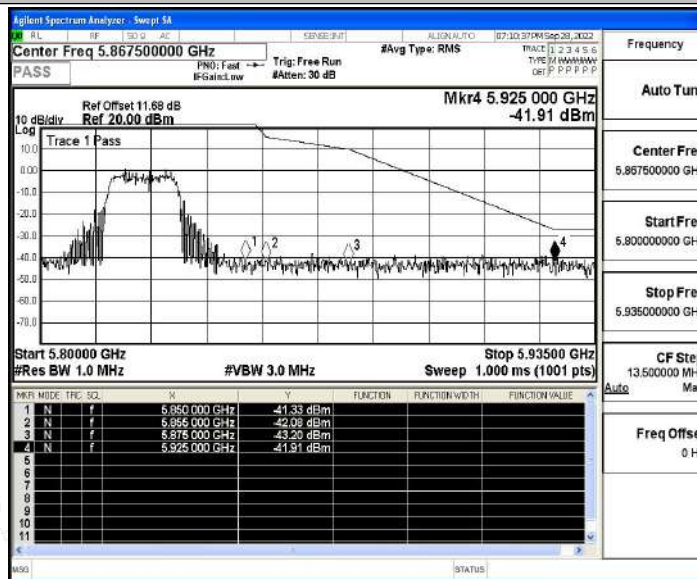


Test Graphs

11A_Ant1_Low_5745_Peak

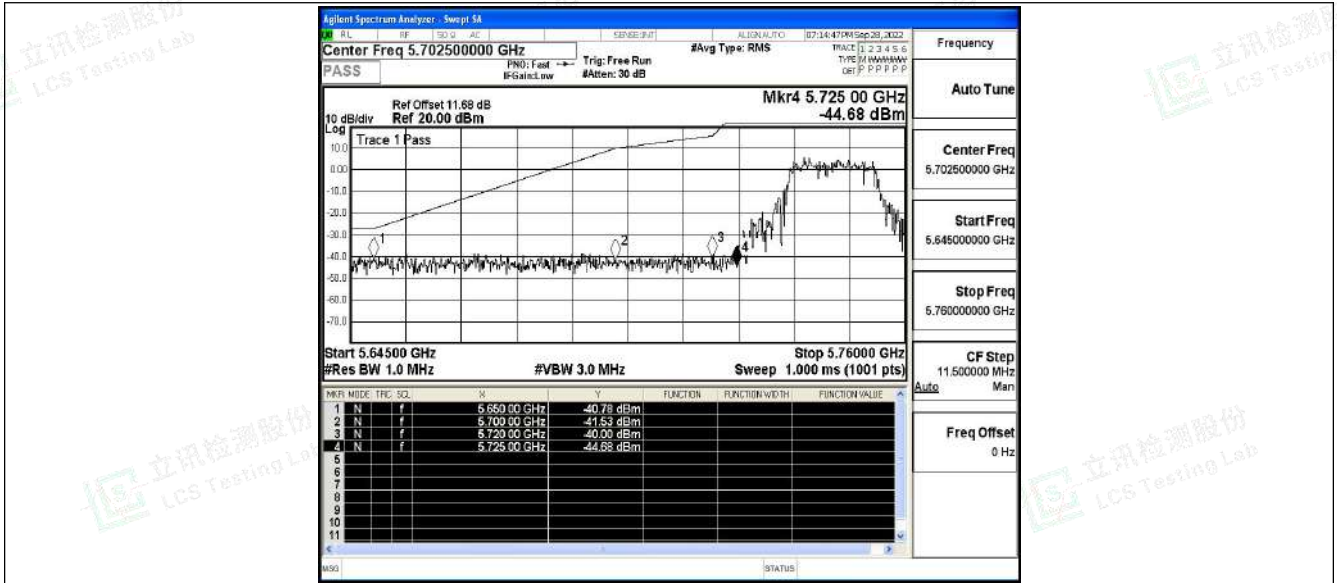


11A_Ant1_High_5825_Peak

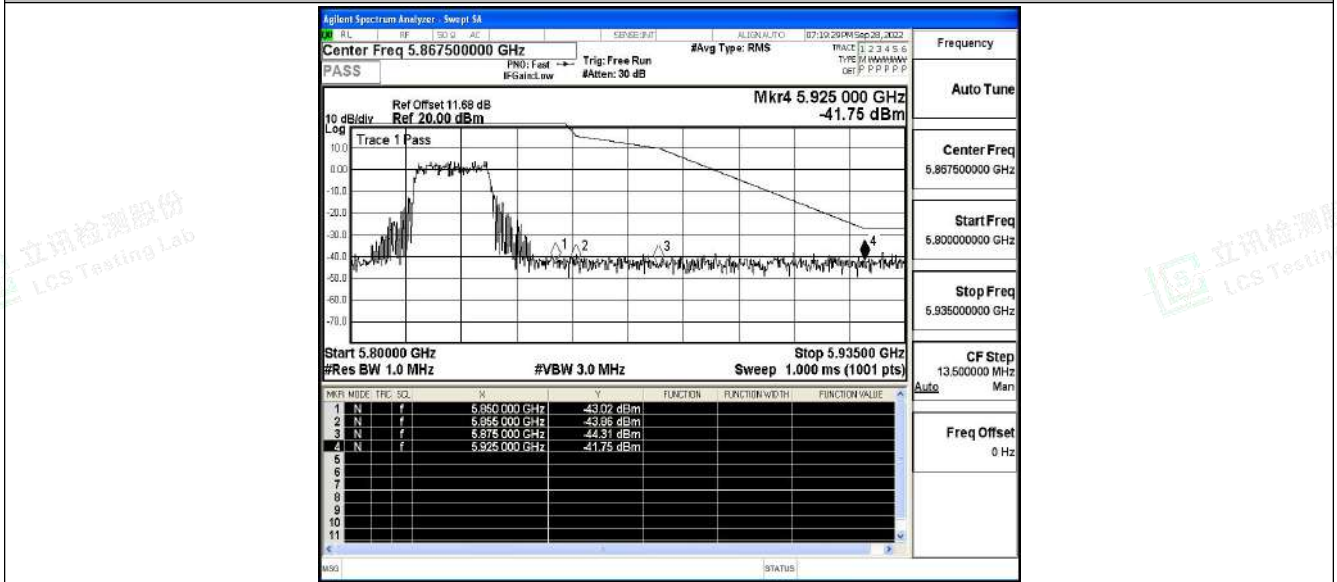


11N20SISO_Ant1_Low_5745_Peak



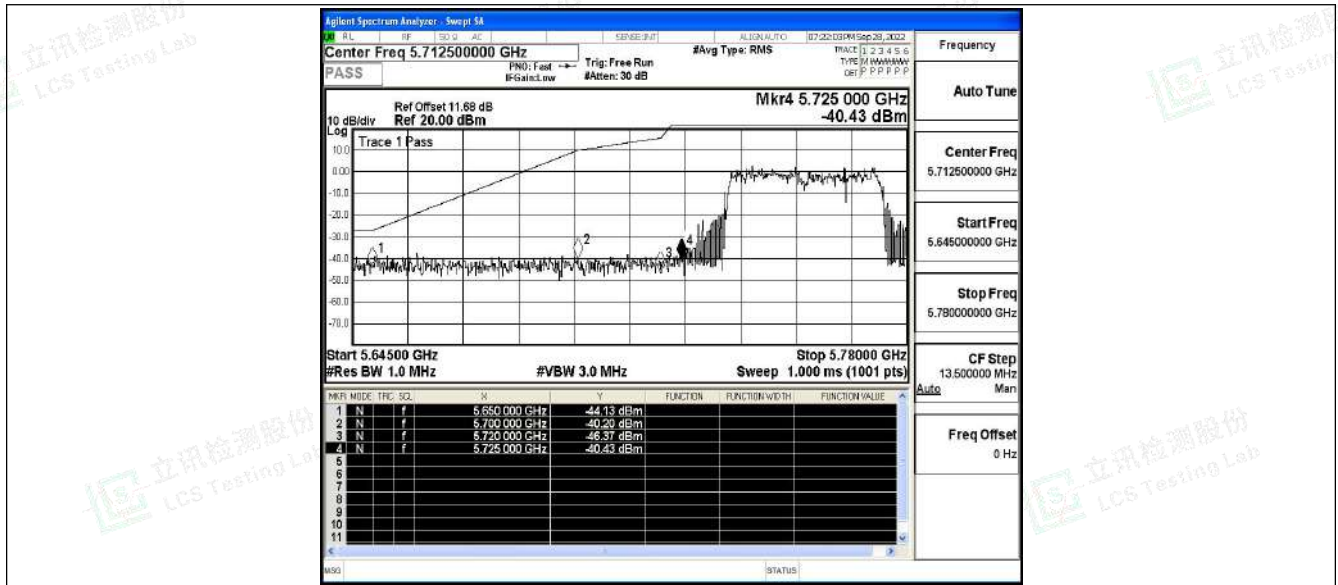


11N20SISO_Ant1_High_5825_Peak

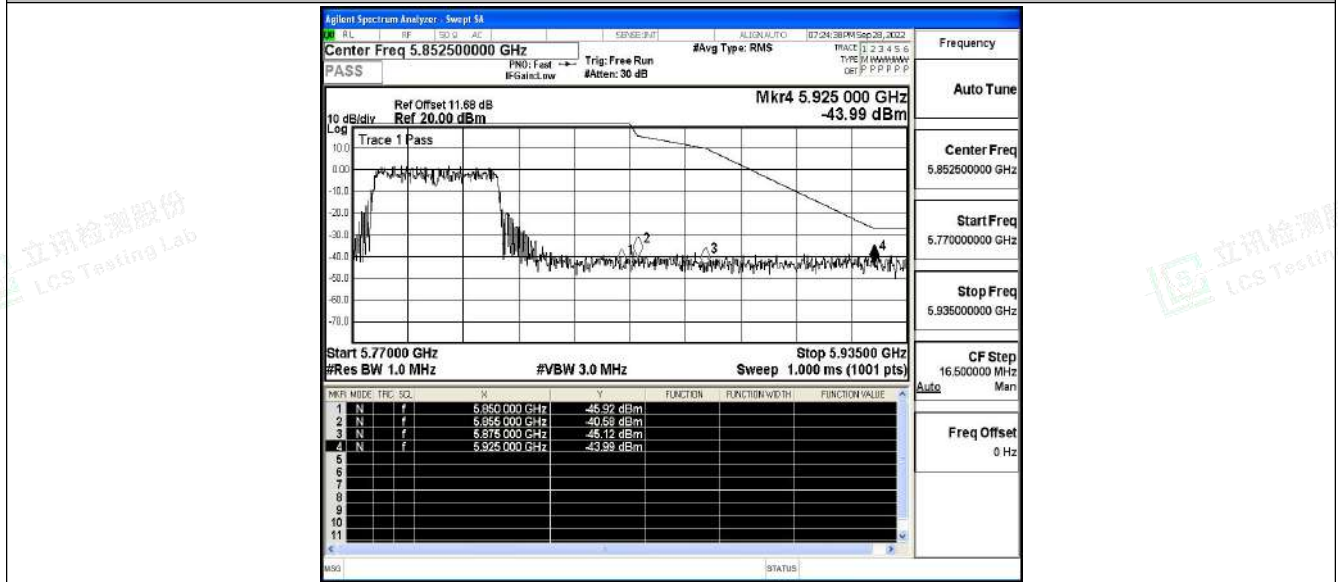


11N40SISO_Ant1_Low_5755_Peak



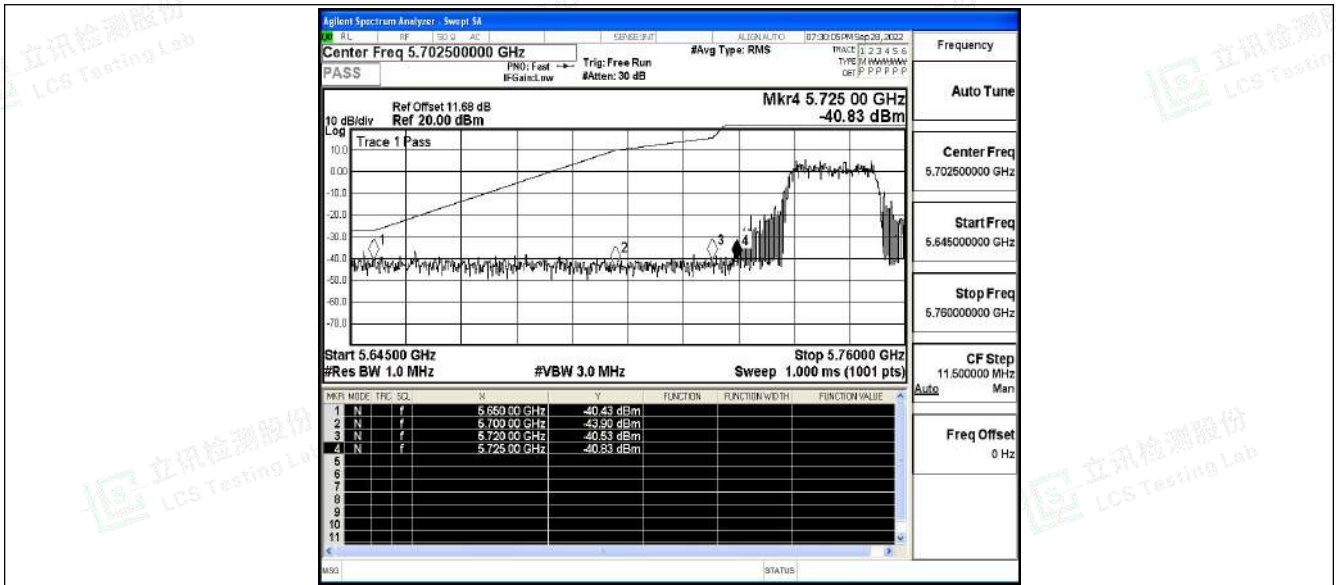


11N40SISO_Ant1_High_5795_Peak

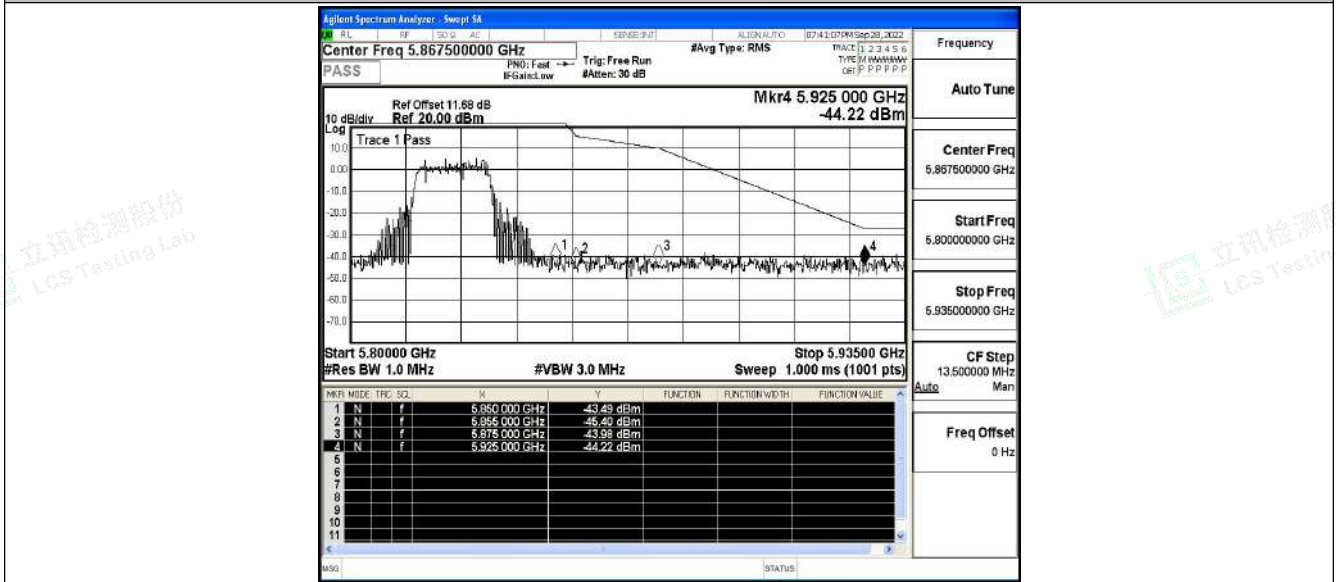


11AC20SISO_Ant1_Low_5745_Peak



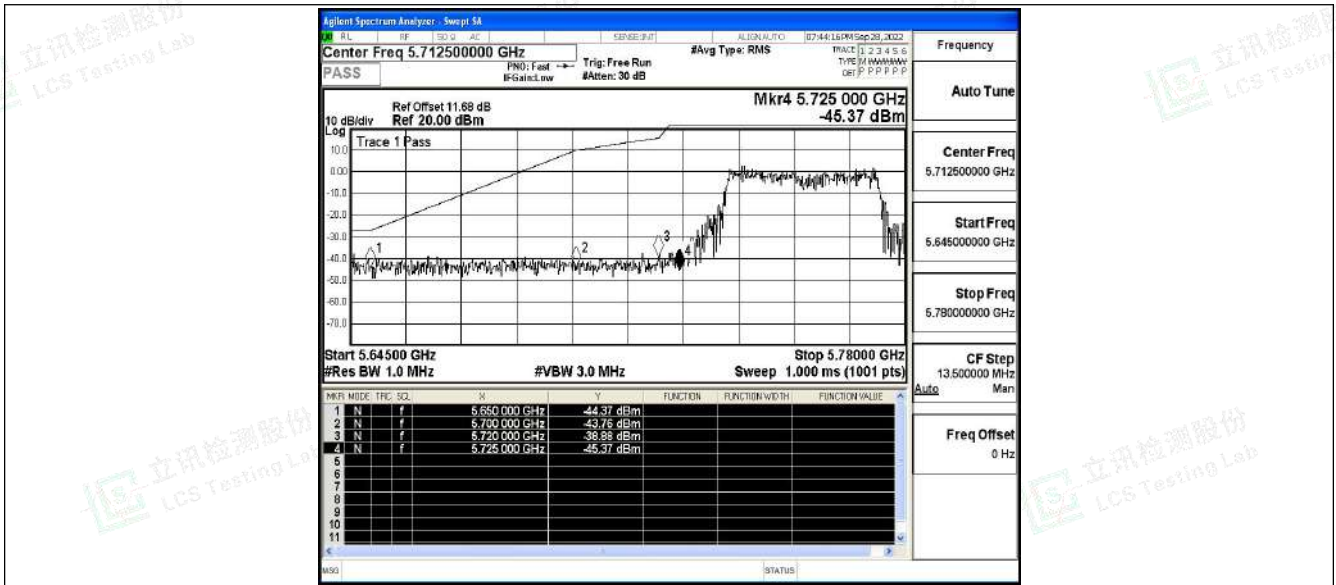


11AC20SISO_Ant1_High_5825_Peak

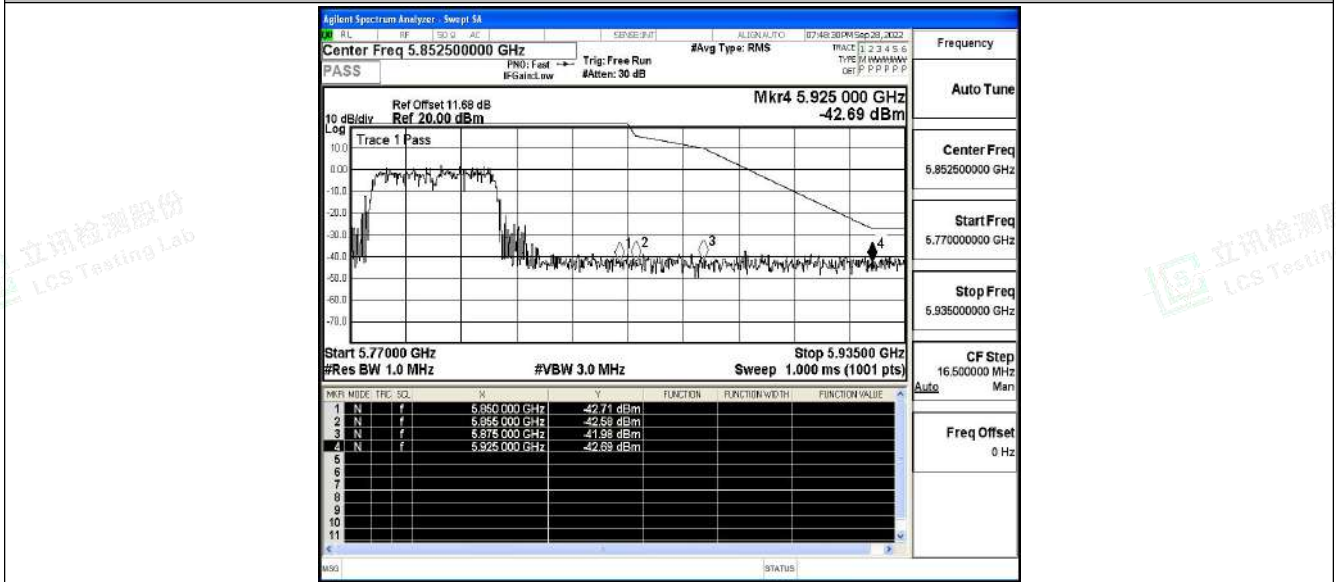


11AC40SISO_Ant1_Low_5755_Peak



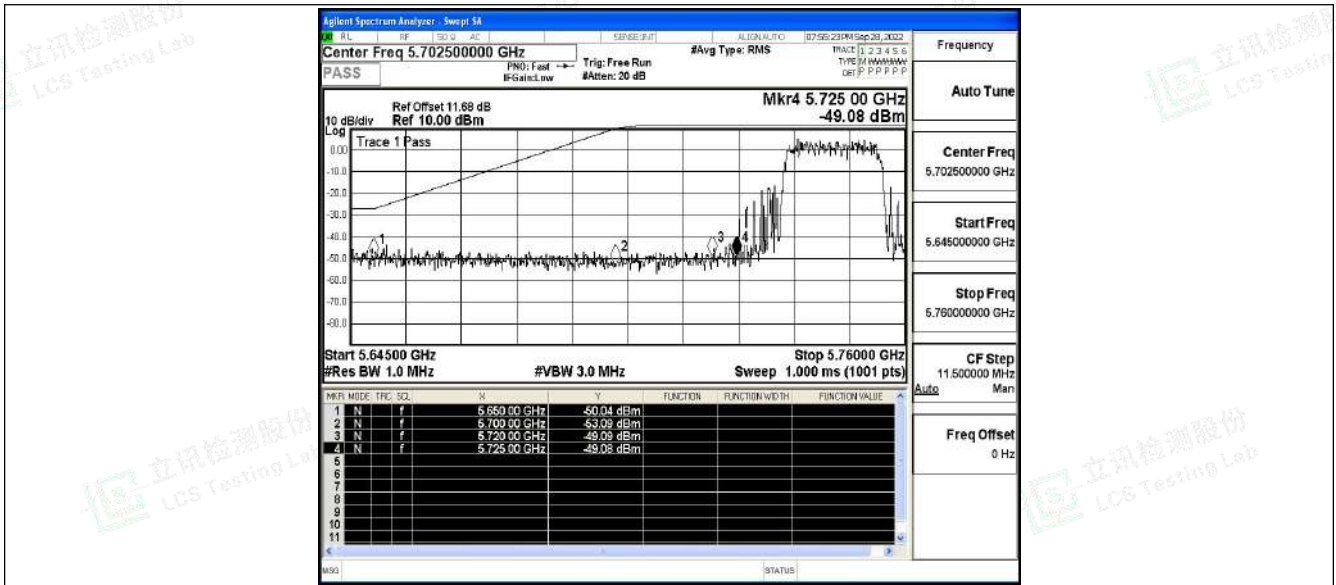


11AC40SISO_Ant1_High_5795_Peak

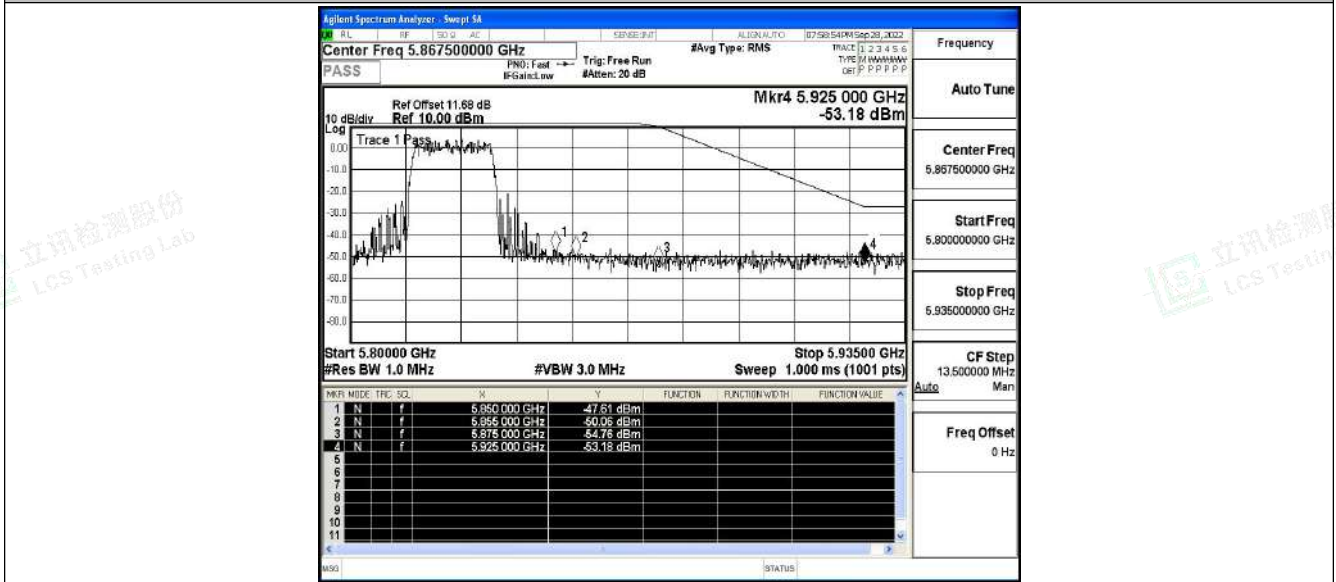


11AX20SISO_Ant1_Low_5745_Peak



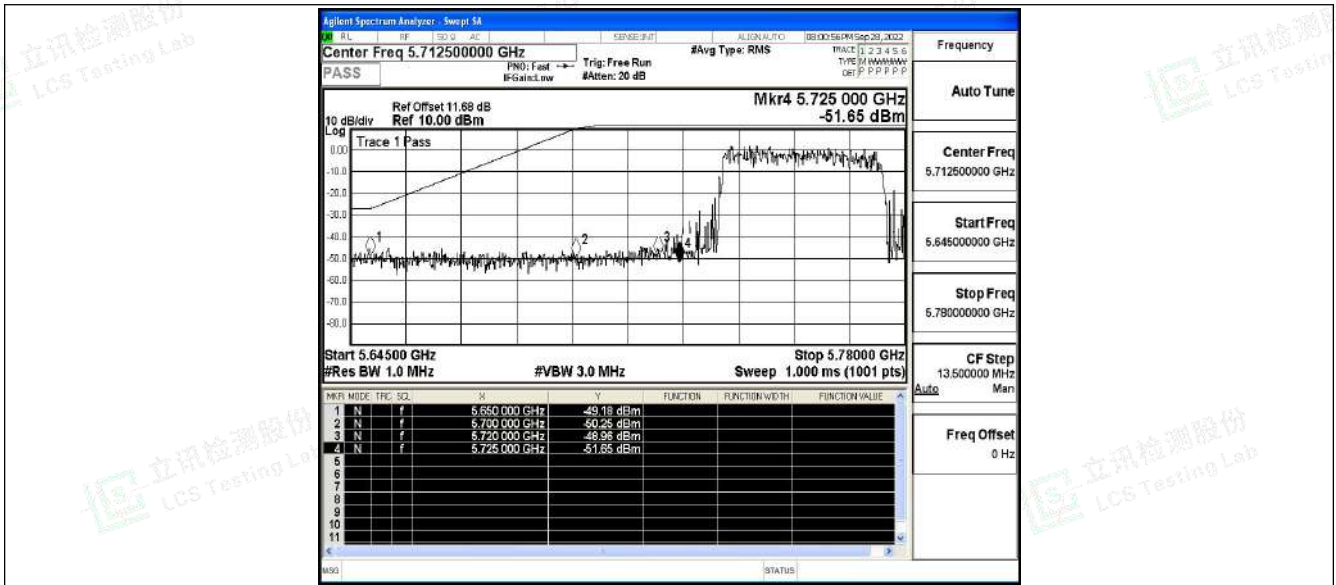


11AX20SISO_Ant1_High_5825_Peak

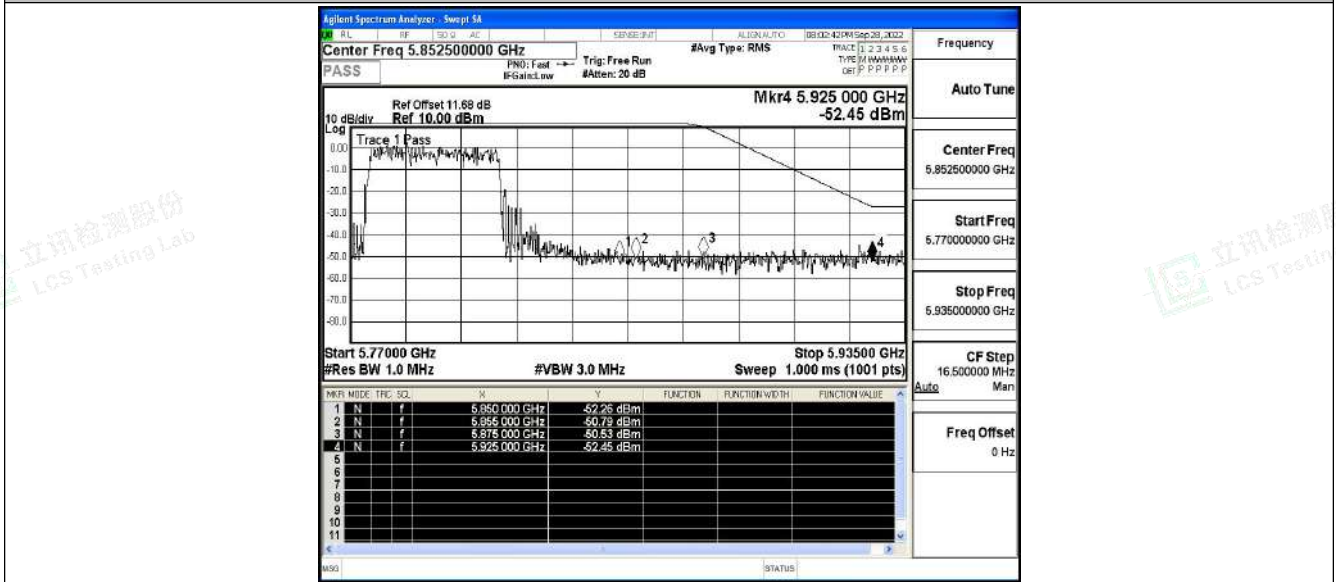


11AX40SISO_Ant1_Low_5755_Peak





11AX40SISO_Ant1_High_5795_Peak





E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	-40000.00	-6.962576	20	PASS
		5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11AC40SIS O	Ant1	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
		5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-6.902502	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	-40000.00	-6.962576	20	PASS
			NV	0	-40000.00	-6.962576	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	-40000.00	-6.962576	20	PASS
			NV	30	-40000.00	-6.962576	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
		5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	-20000.00	-3.457217	20	PASS
NV	30	-20000.00	-3.457217	20	PASS			
NV	40	0.00	0.000000	20	PASS			



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 Scan code to check authenticity



		5825	NV	50	-40000.00	-6.914434	20	PASS
			NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	-40000.00	-6.866953	20	PASS
			NV	-10	-20000.00	-3.433476	20	PASS
			NV	0	-40000.00	-6.866953	20	PASS
			NV	10	-40000.00	-6.866953	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-6.866953	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC40SIS O	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-6.950478	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
		5795	NV	50	-40000.00	-6.950478	20	PASS
			NV	-30	-40000.00	-6.902502	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-6.902502	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-6.902502	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS





E.6 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	1/T[kHz]
11A	Ant1	5745	2.03	2.08	97.60	0.11	0.01
		5785	2.03	2.20	92.27	0.35	0.01
		5825	2.03	2.11	96.21	0.17	0.01
11N20SISO	Ant1	5745	1.89	2.02	93.56	0.29	0.49
		5785	1.89	2.02	93.56	0.29	0.49
		5825	1.90	2.05	92.68	0.33	0.49
11N40SISO	Ant1	5755	0.93	1.02	91.18	0.40	0.53
		5795	0.94	1.10	85.45	0.68	0.53
11AC20SISO	Ant1	5745	1.90	2.06	92.23	0.35	0.53
		5785	1.89	2.02	93.56	0.29	1.08
		5825	1.90	2.03	93.60	0.29	1.08
11AC40SISO	Ant1	5755	0.93	1.01	92.08	0.36	1.08
		5795	0.93	1.04	89.42	0.49	0.69
11AX20SISO	Ant1	5745	1.45	1.62	89.51	0.48	0.69
		5785	1.45	1.61	90.06	0.45	0.69
		5825	1.45	1.62	89.51	0.48	1.33
11AX40SISO	Ant1	5755	0.75	0.79	94.94	0.23	1.33
		5795	0.75	0.87	86.21	0.64	1.33

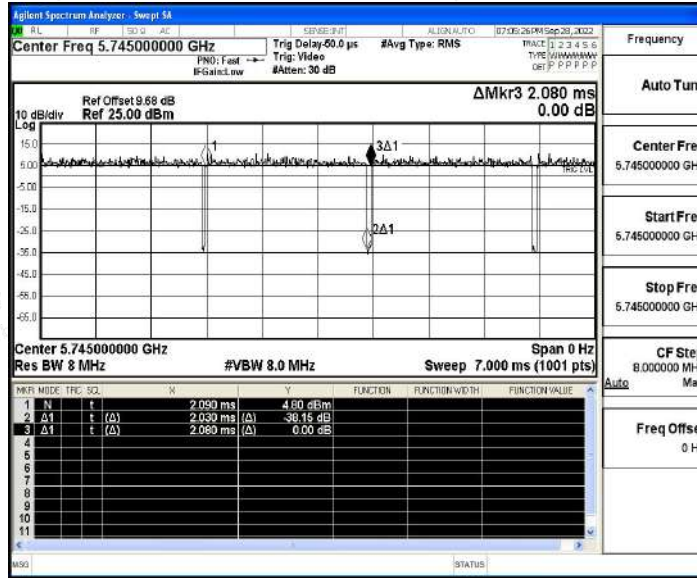


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 Scan code to check authenticity

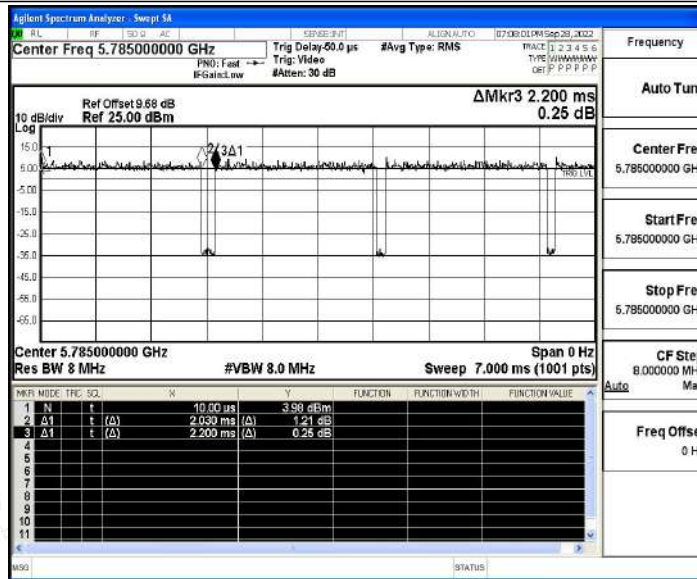


Test Graphs

11A_Ant1_5745

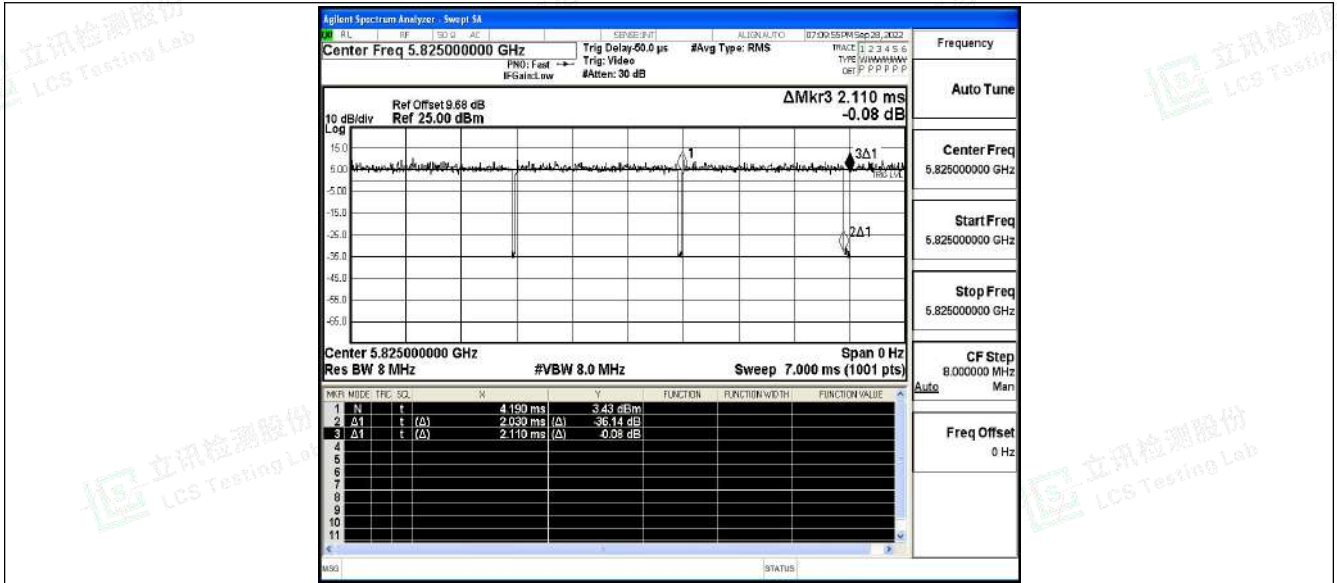


11A_Ant1_5785

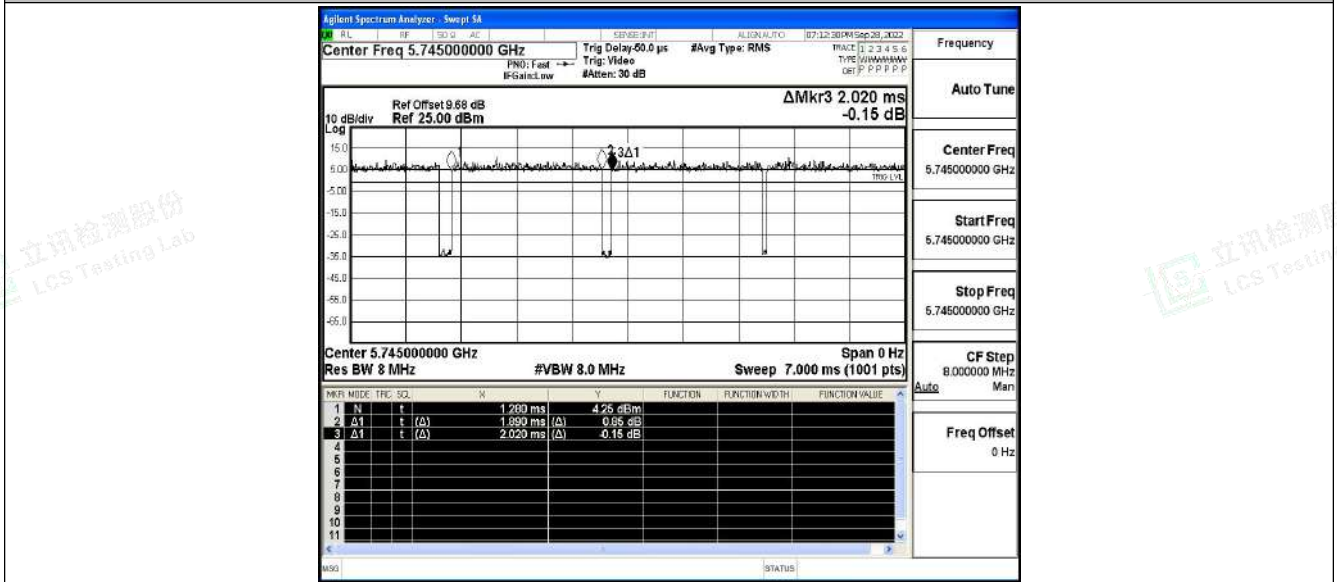


11A_Ant1_5825



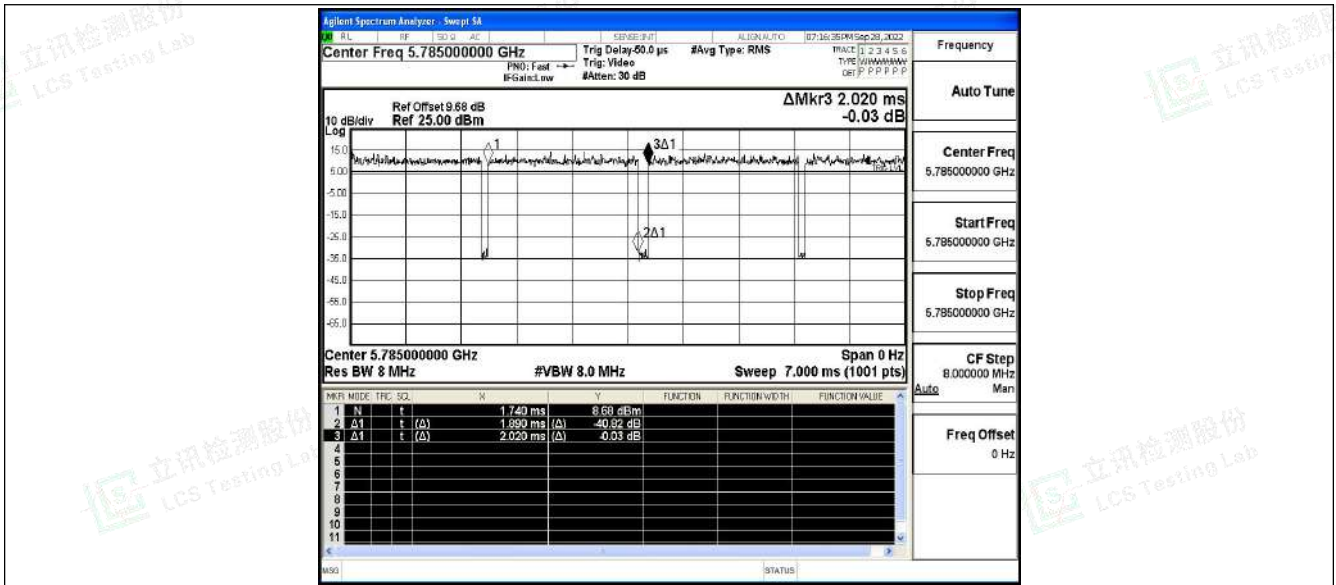


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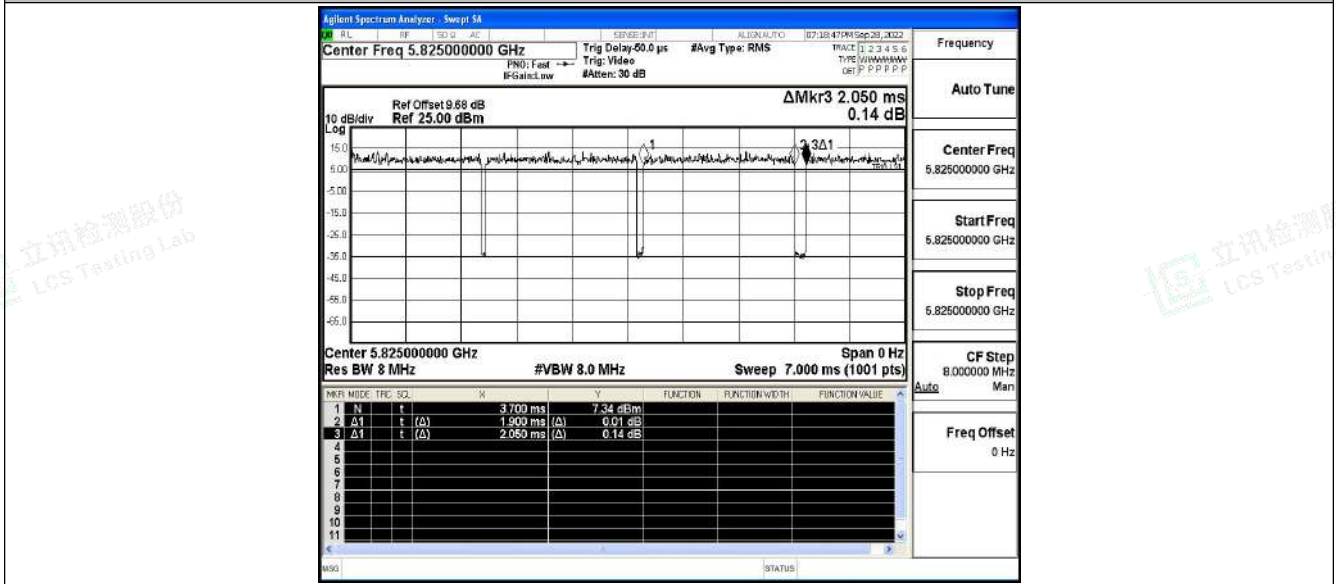


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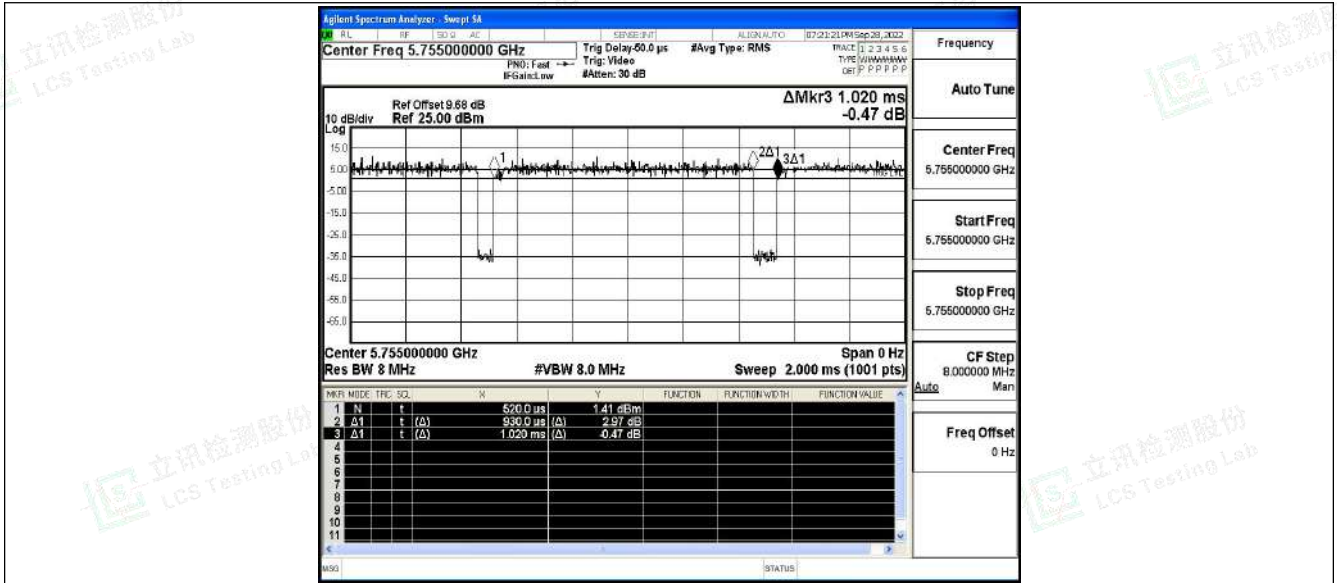


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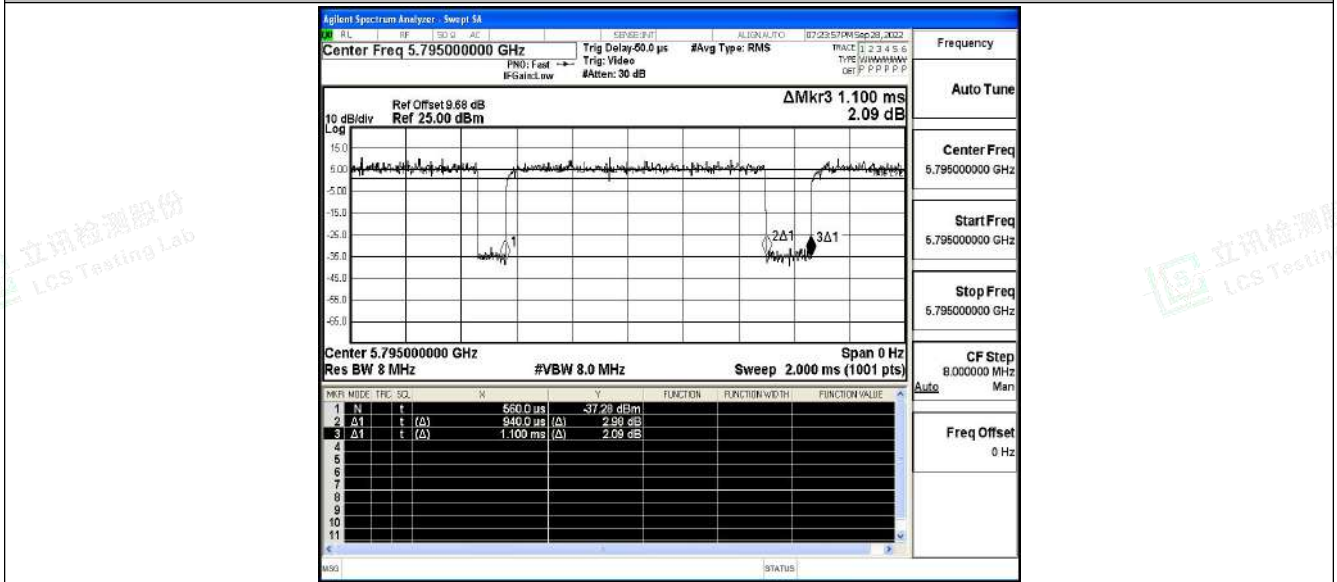


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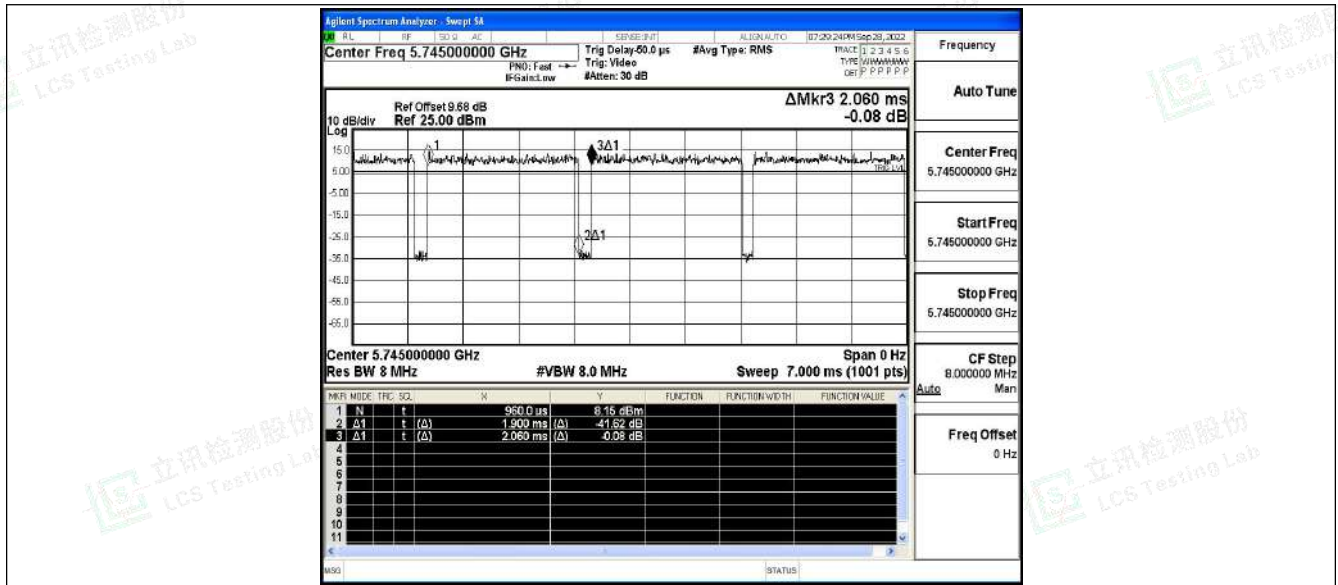


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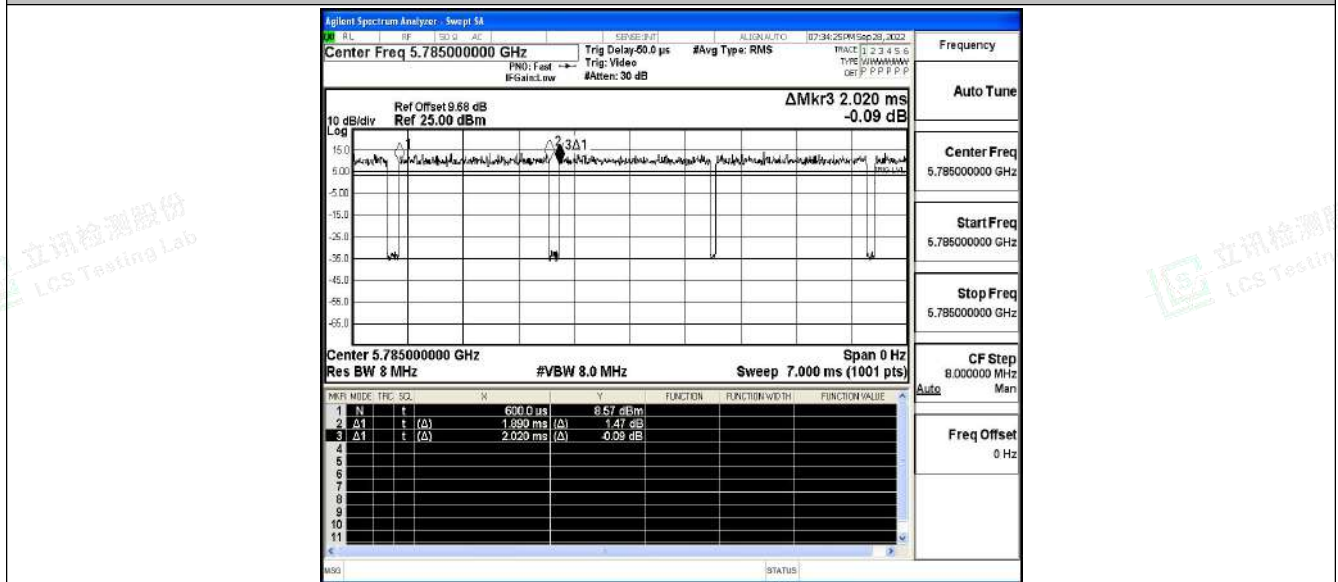


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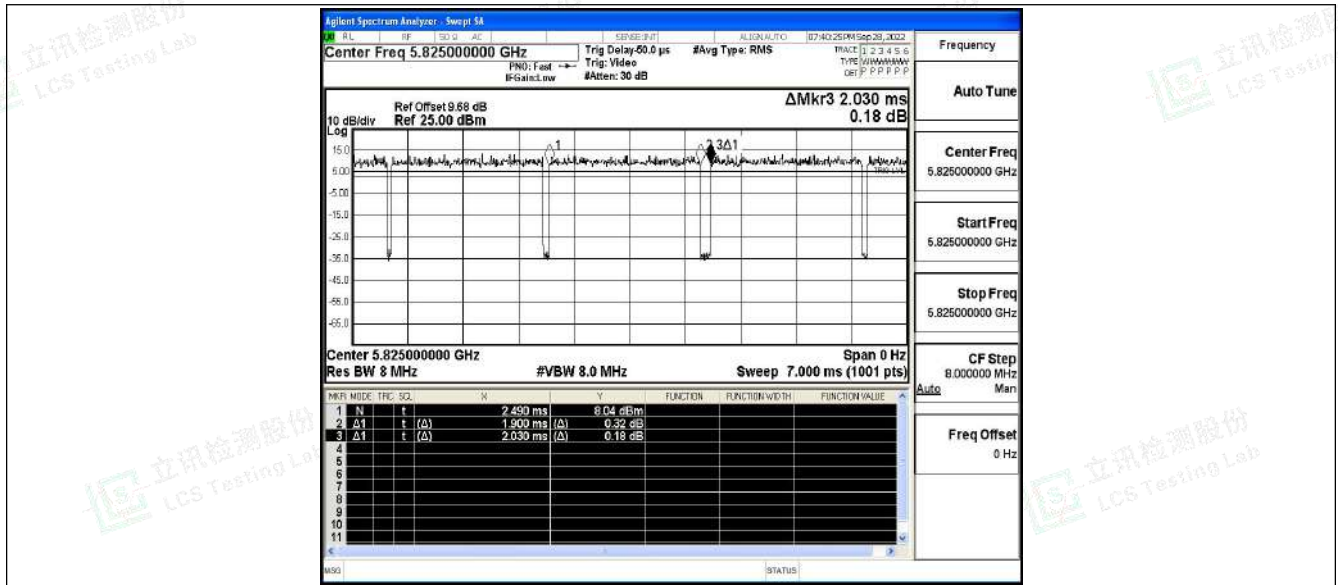


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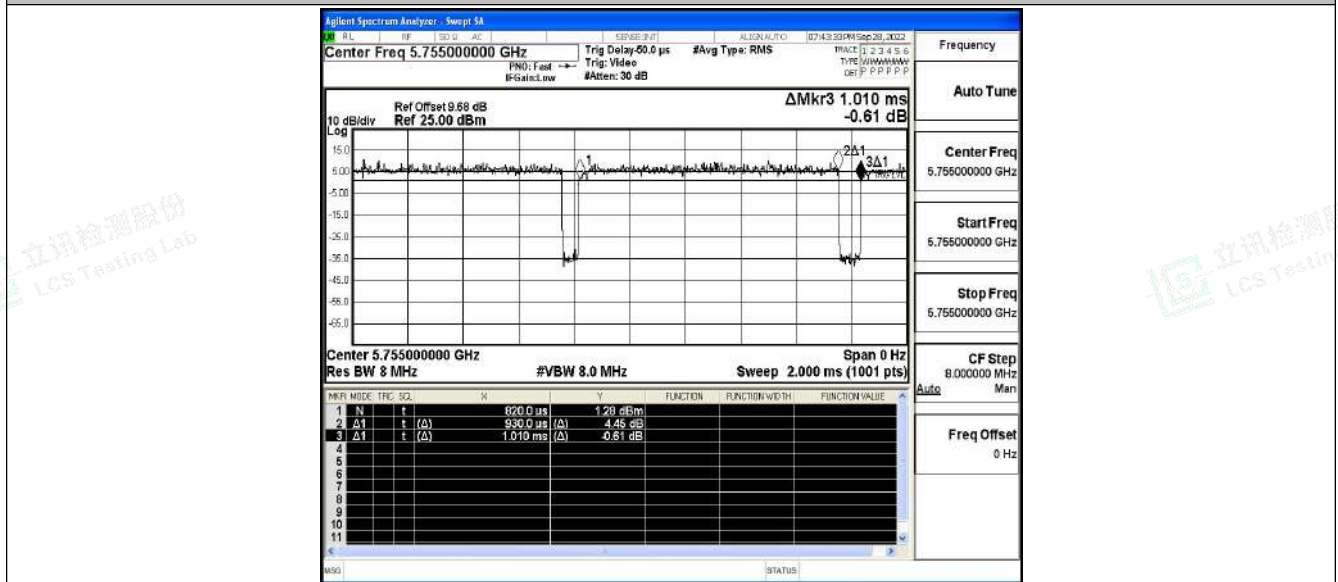


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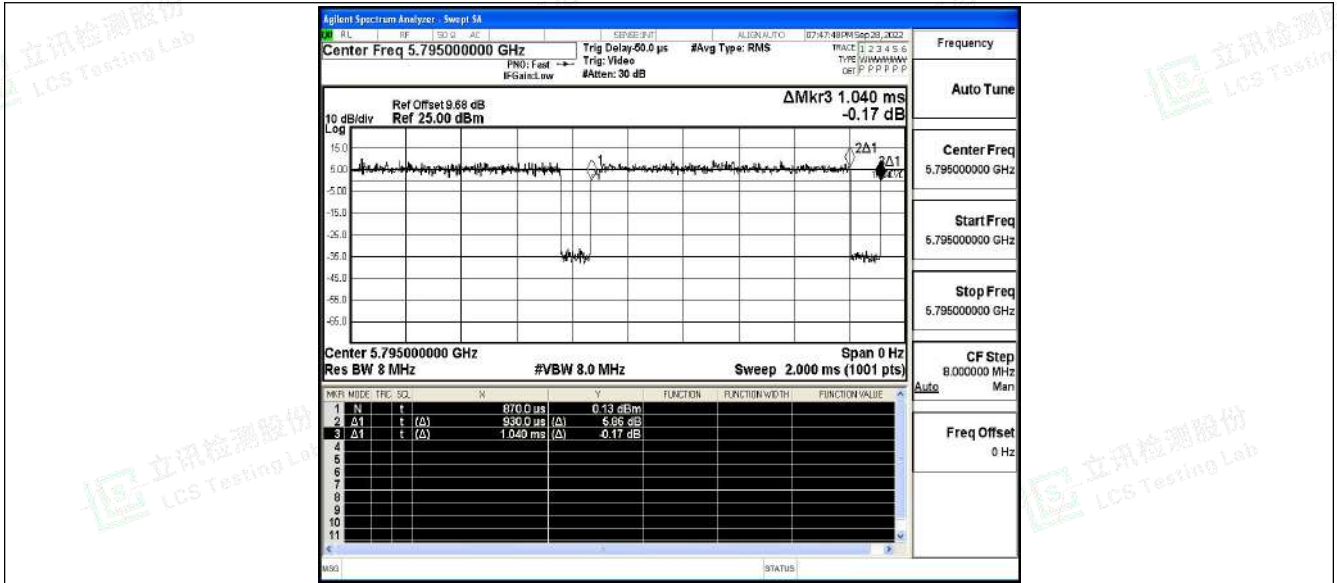


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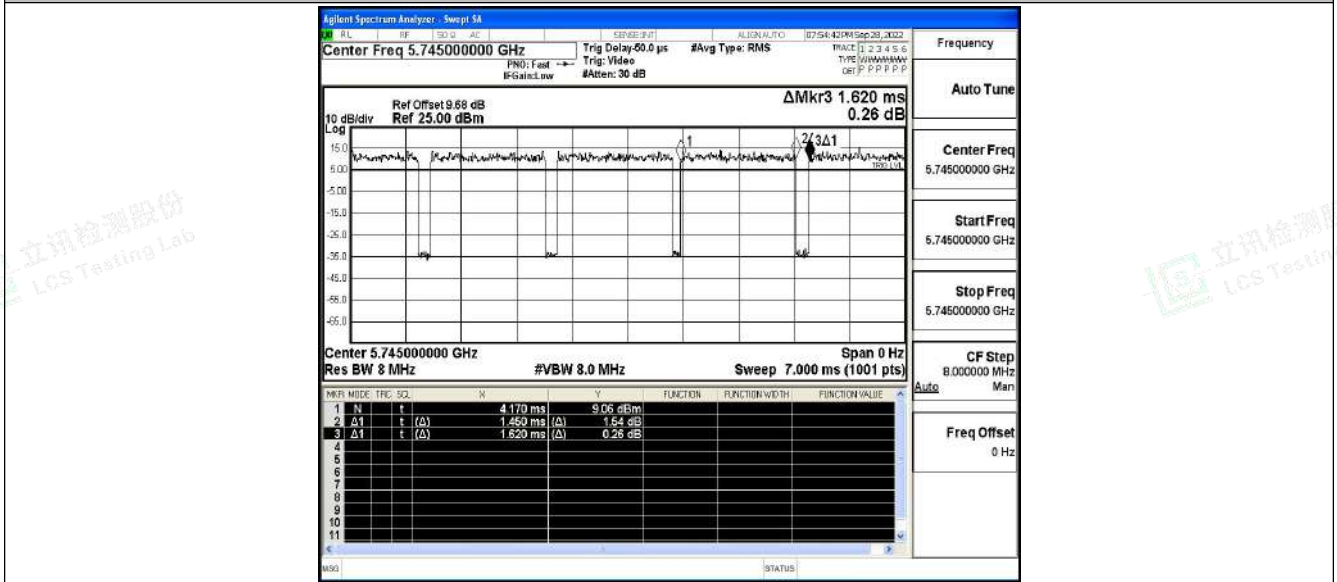


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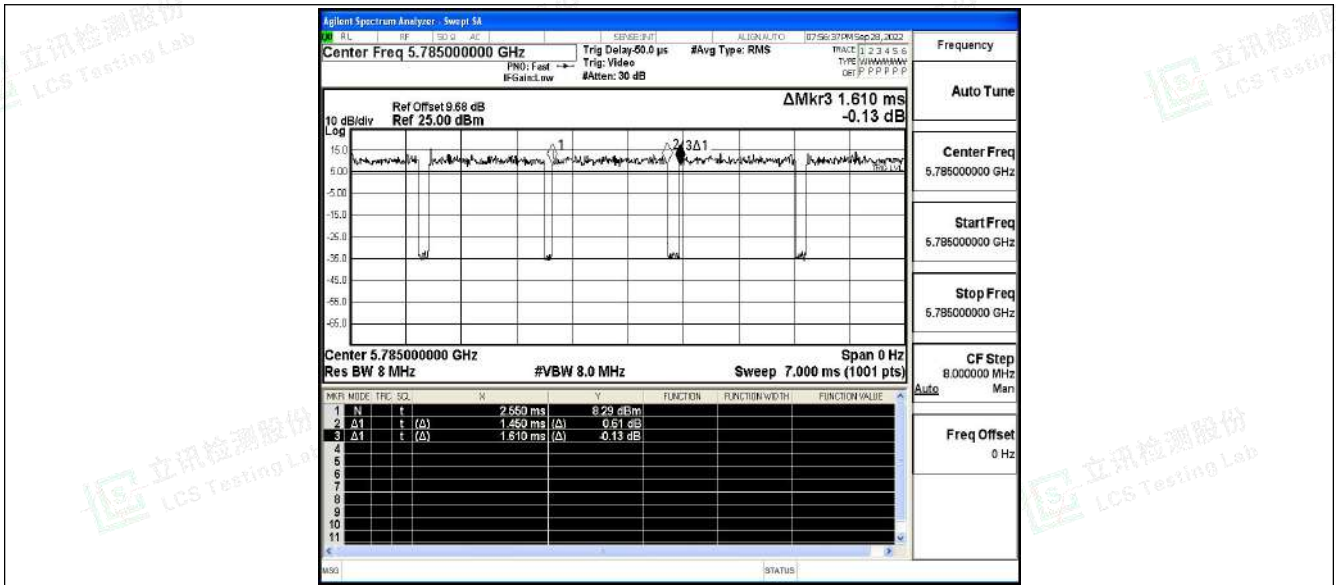


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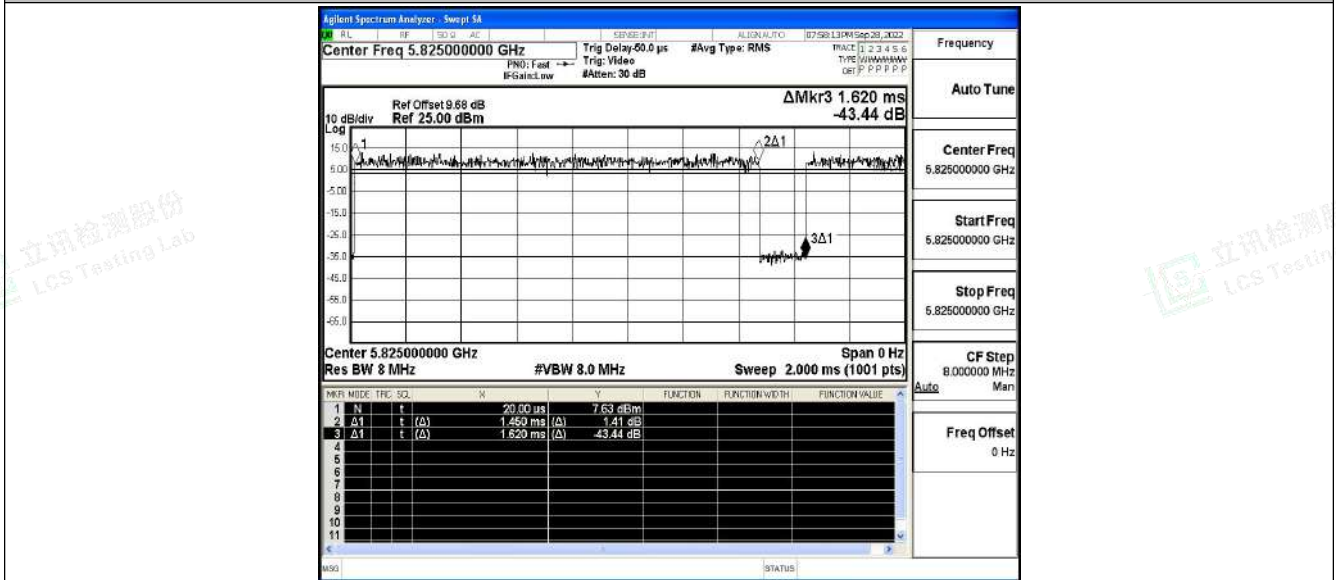


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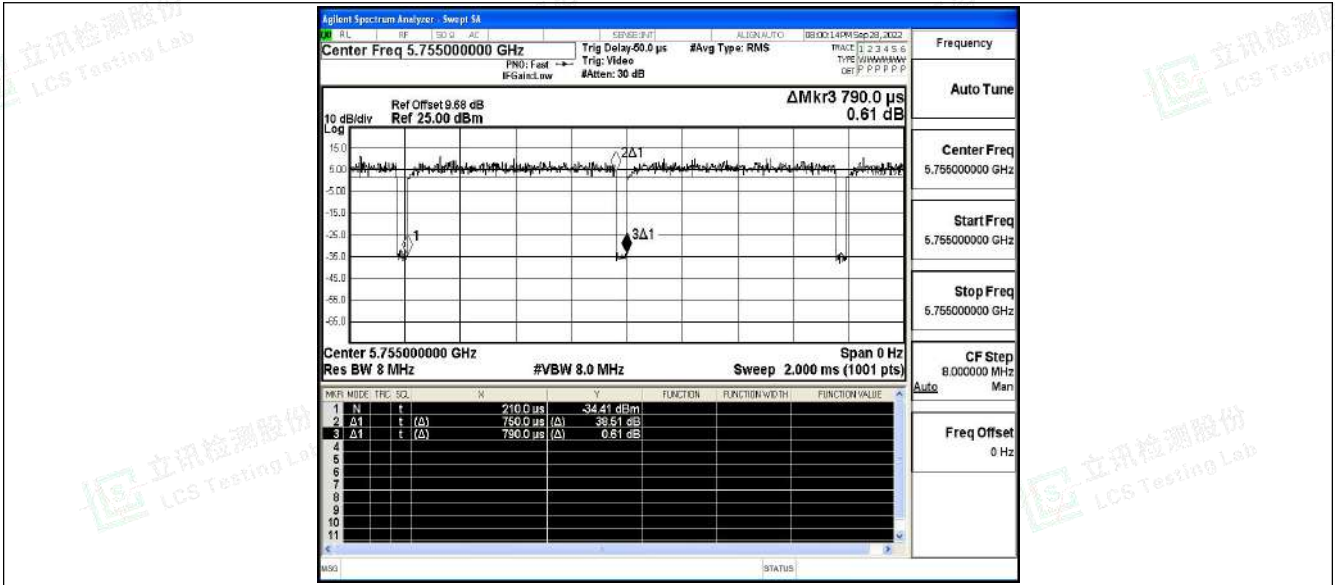


11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755





11AX40SISO_Ant1_5795

