

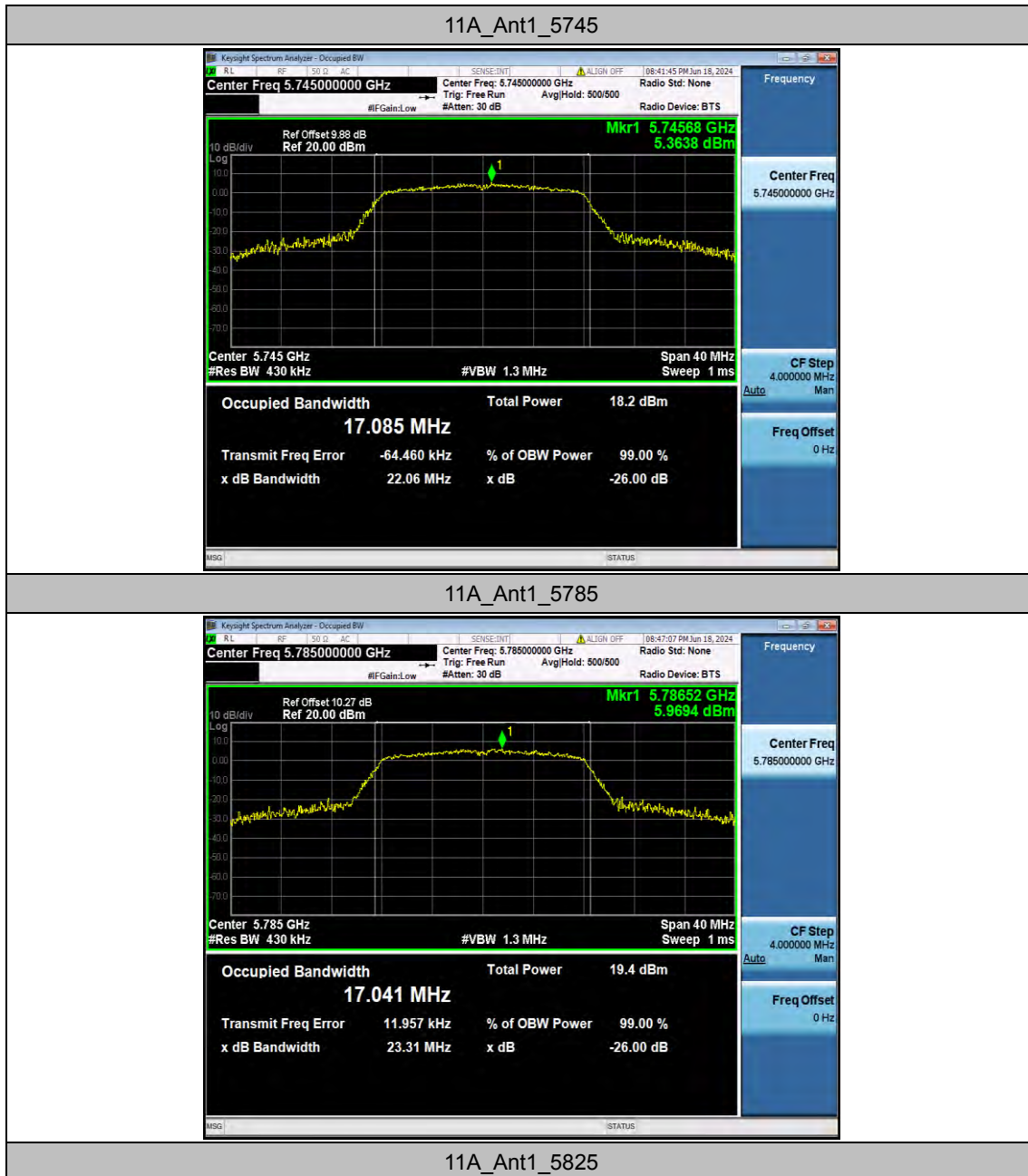
Case No. : <u>CTA24061300404</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.6.18</u>	Test Engineer: <u>Evan ouyang</u>

Appendix E.1: Occupied channel bandwidth

Test Result

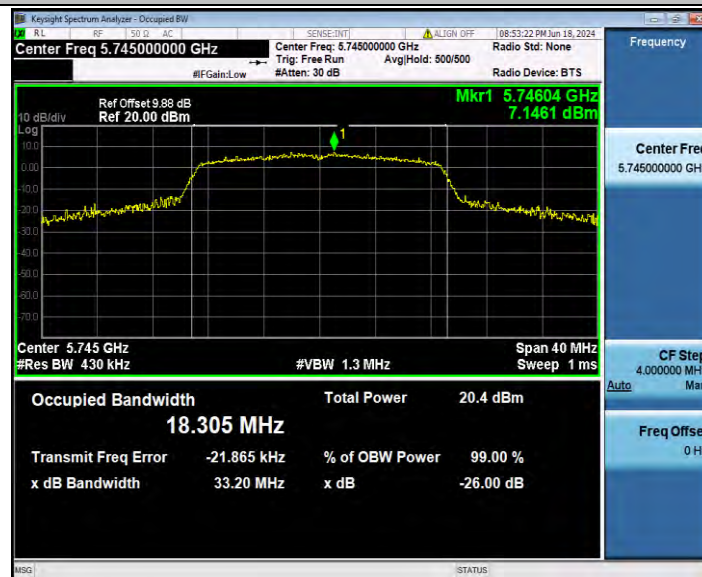
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5745	17.085	5736.3930	5753.4780
		5785	17.041	5776.4915	5793.5325
		5825	17.038	5816.4437	5833.4817
11N20SISO	Ant1	5745	18.305	5735.8256	5754.1306
		5785	18.232	5775.8743	5794.1063
		5825	18.345	5815.7633	5834.1083
11N40SISO	Ant1	5755	36.569	5736.7476	5773.3166
		5795	36.515	5776.7921	5813.3071
11AC20SISO	Ant1	5745	18.034	5735.9972	5754.0312
		5785	17.928	5776.0271	5793.9551
		5825	17.993	5815.9958	5833.9888
11AC40SISO	Ant1	5755	36.427	5736.8084	5773.2354
		5795	36.361	5776.8686	5813.2296
11AC80SISO	Ant1	5775	75.387	5737.3703	5812.7573

Test Graphs





11N20SISO_Ant1_5745



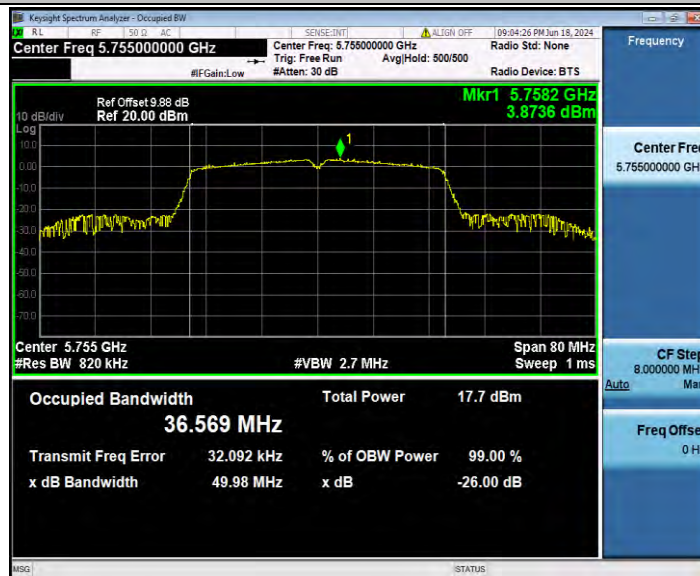
11N20SISO_Ant1_5785



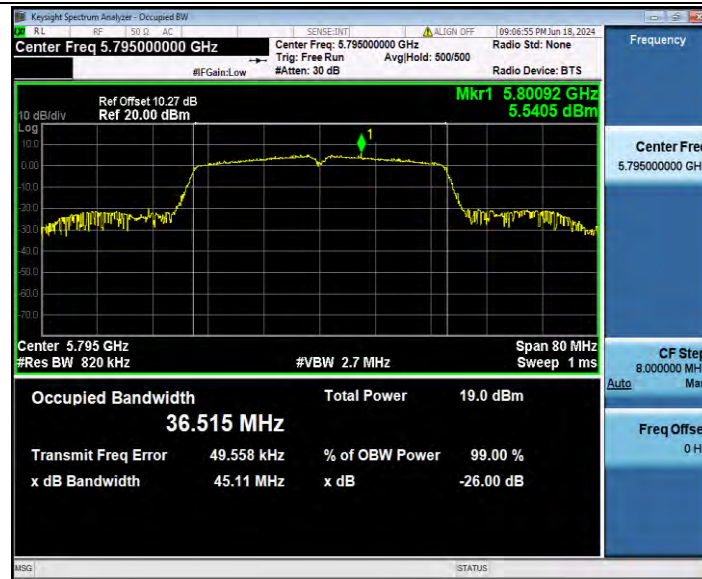
11N20SISO_Ant1_5825



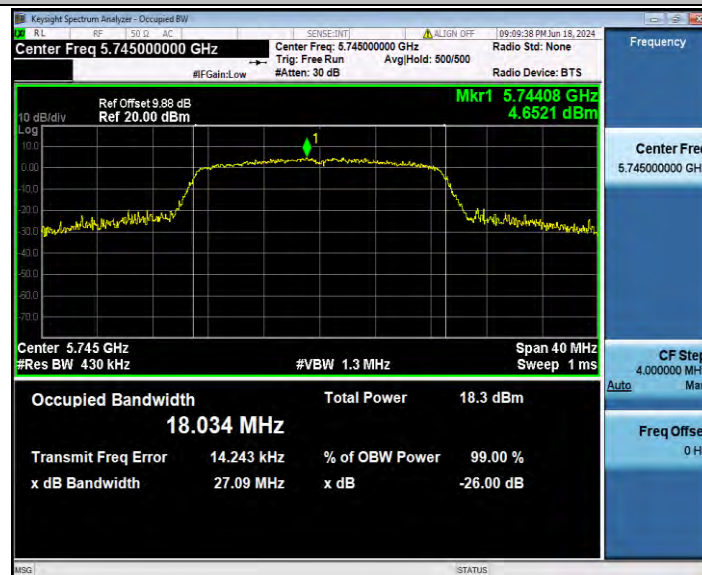
11N40SISO_Ant1_5755



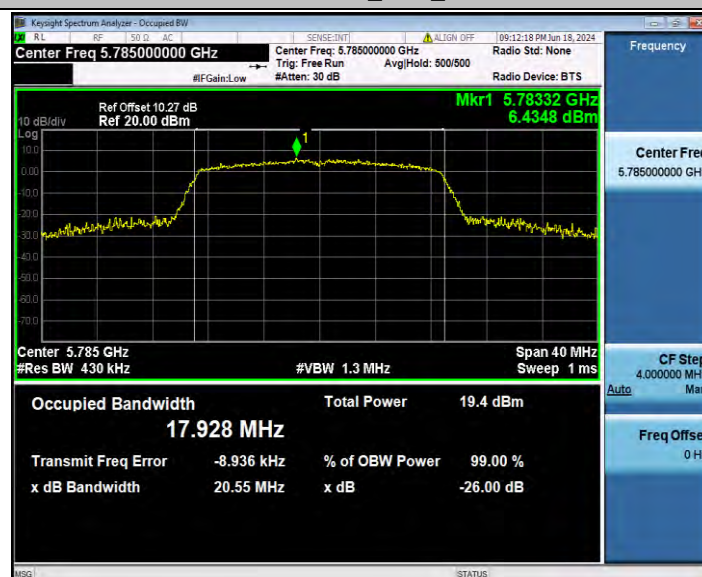
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



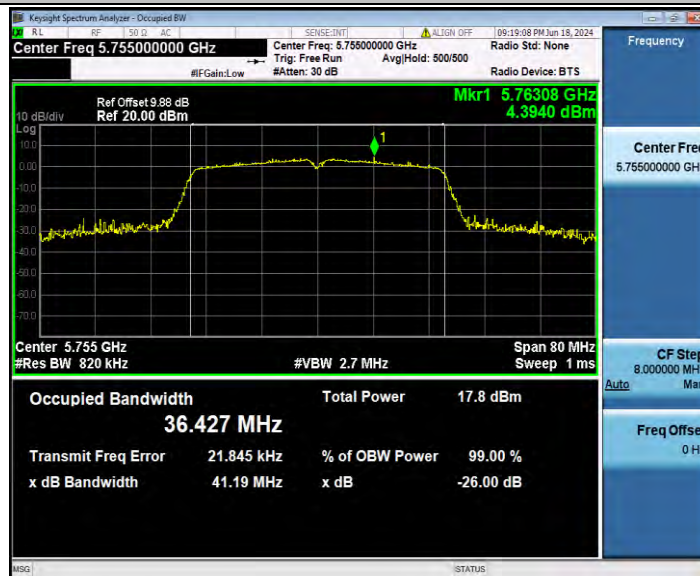
11AC20SISO_Ant1_5785



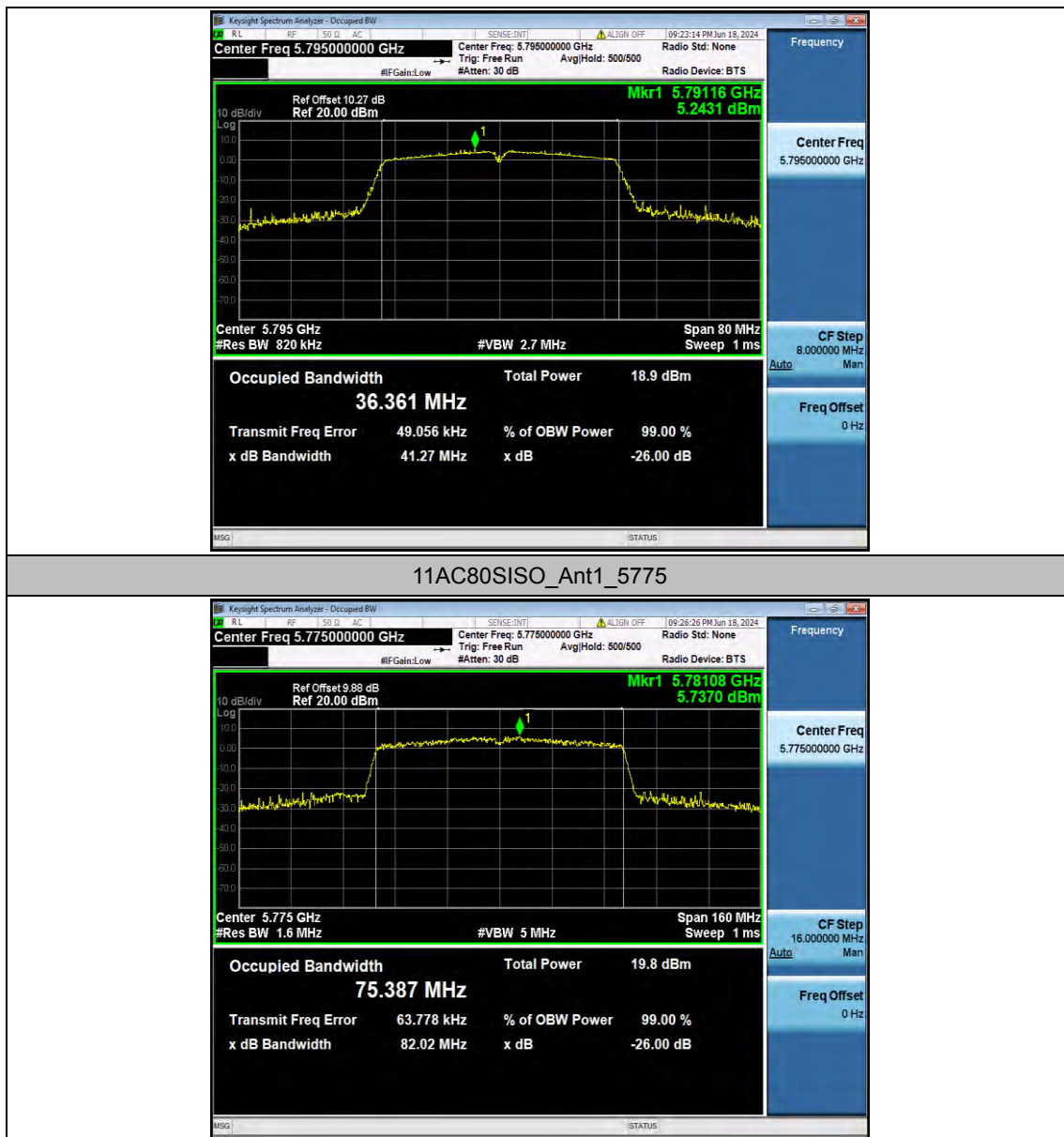
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



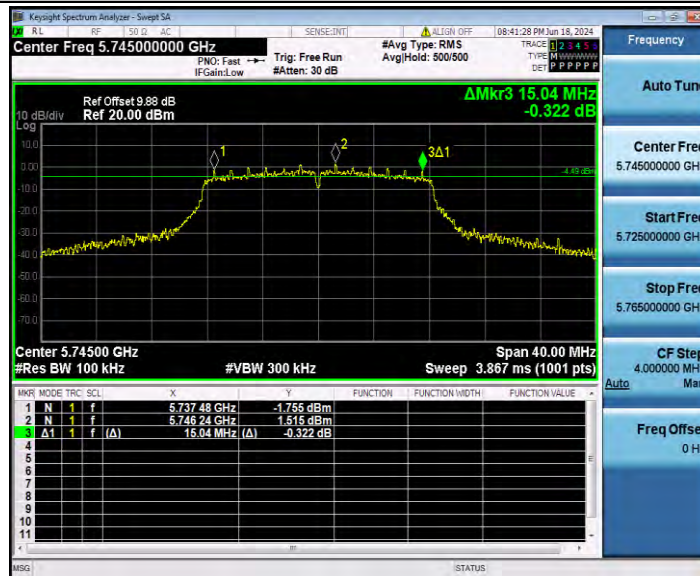
Appendix E.2: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	14.480	5778.080	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.080	5817.480	5832.560	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.080	5737.480	5752.560	0.5	PASS
		5785	15.040	5777.440	5792.480	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11AC40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4

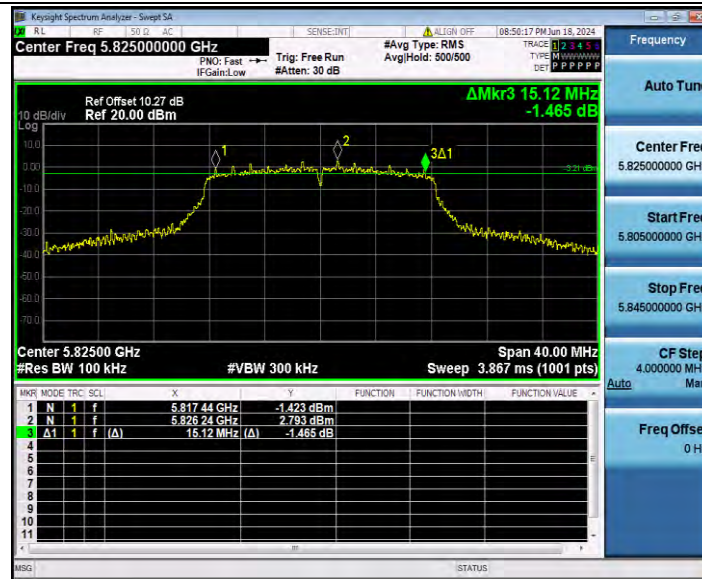
11A_Ant1_5745



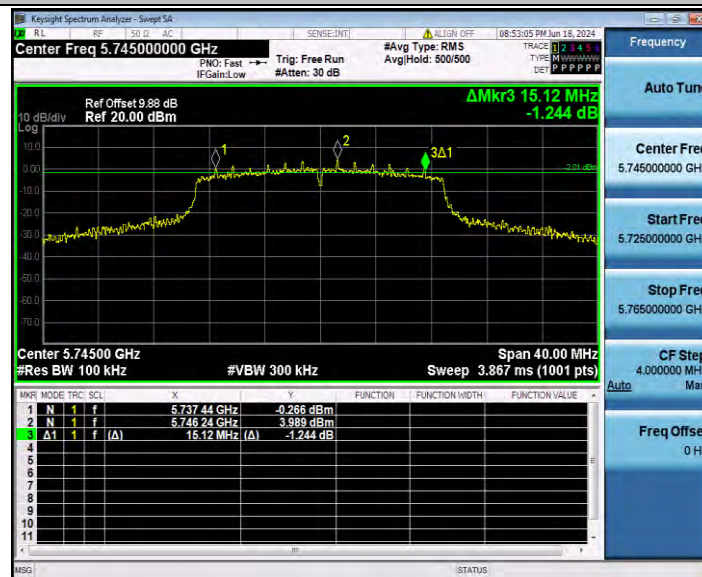
11A_Ant1_5785



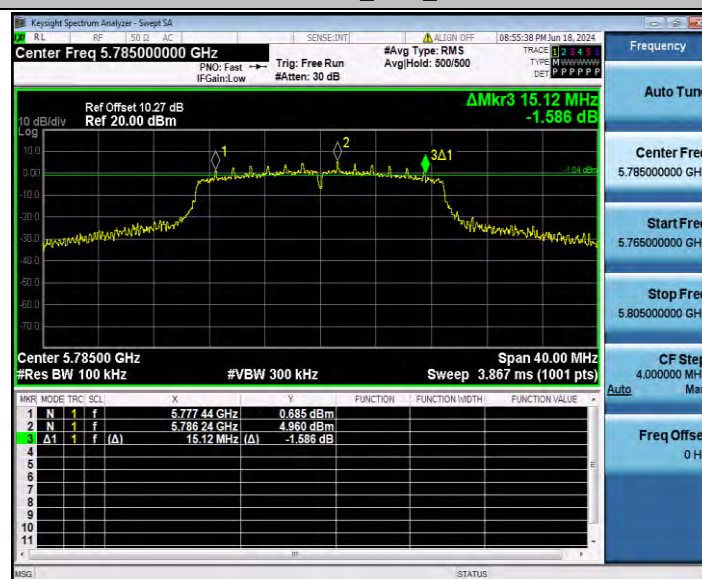
11A_Ant1_5825



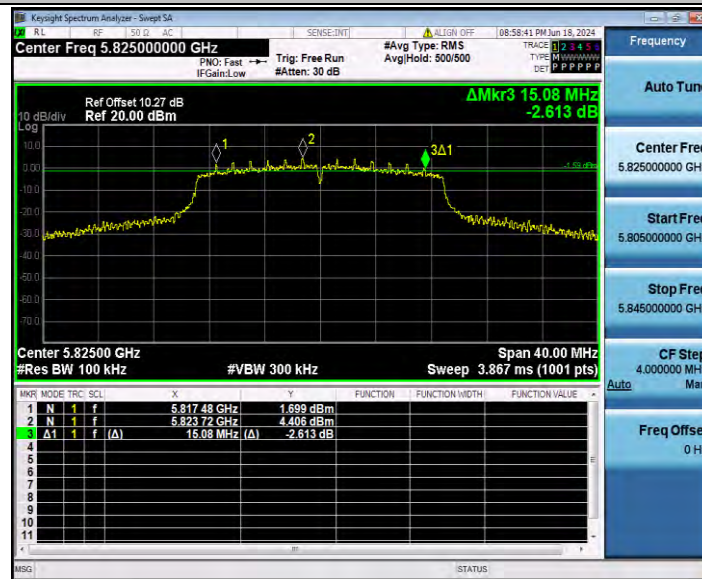
11N20SISO_Ant1_5745



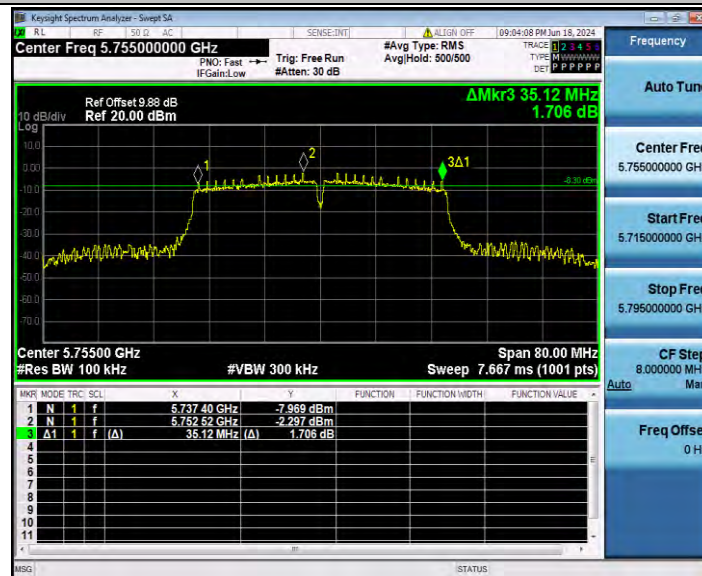
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



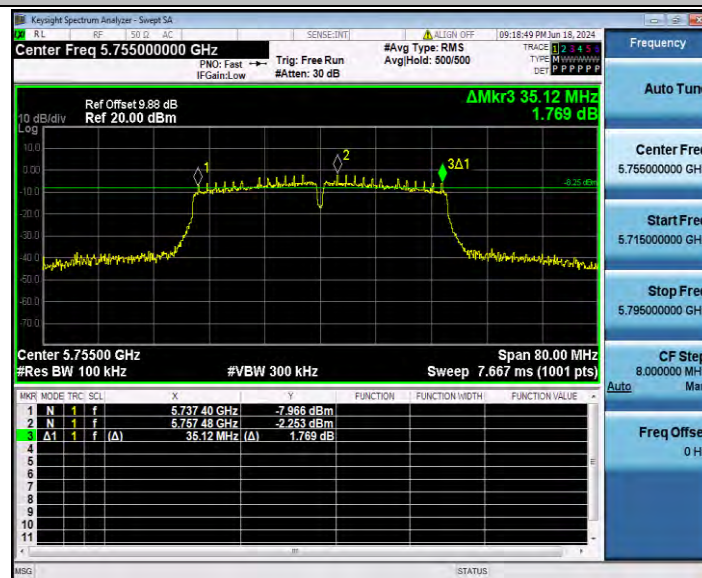
11N40SISO_Ant1_5795



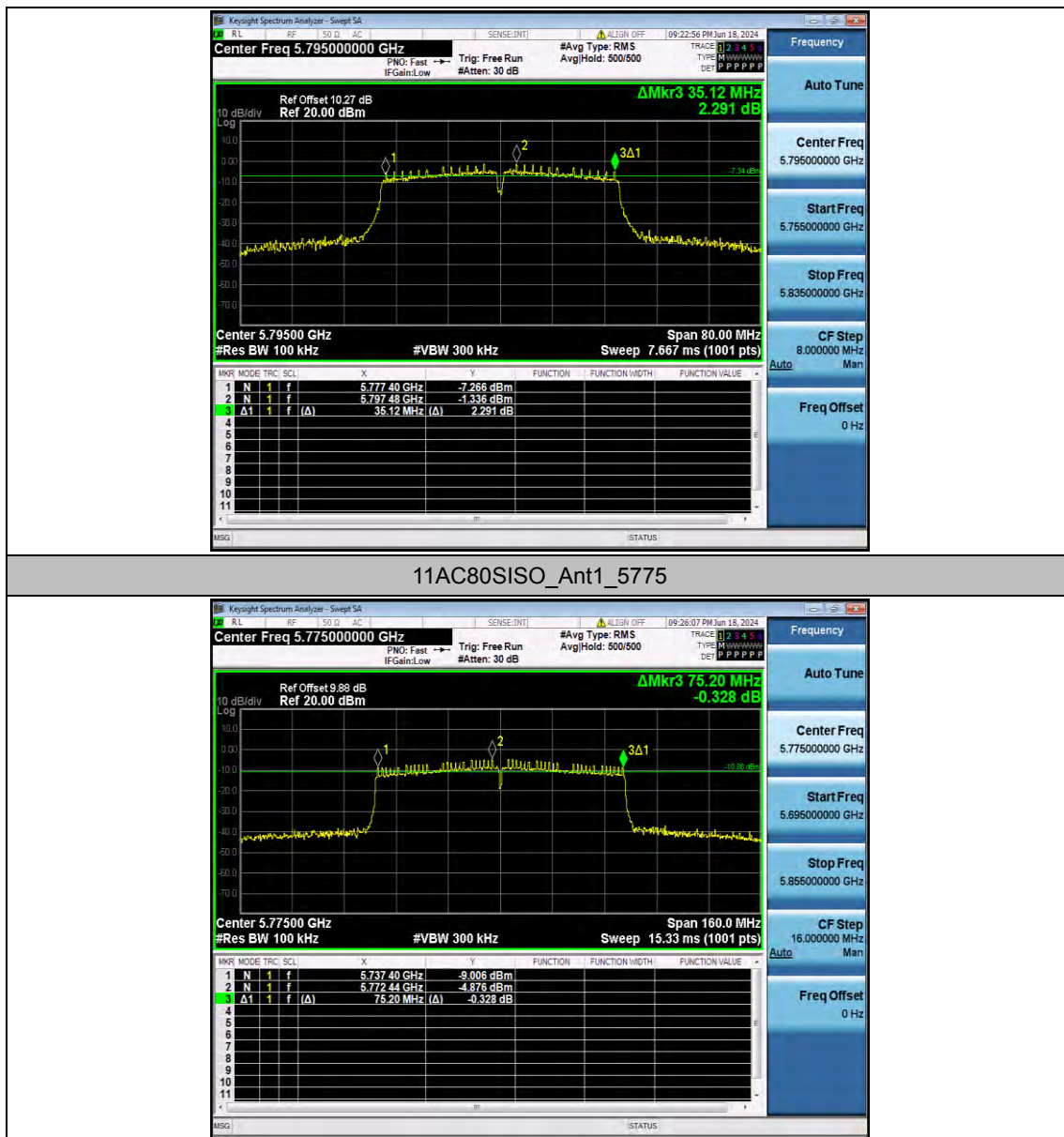
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

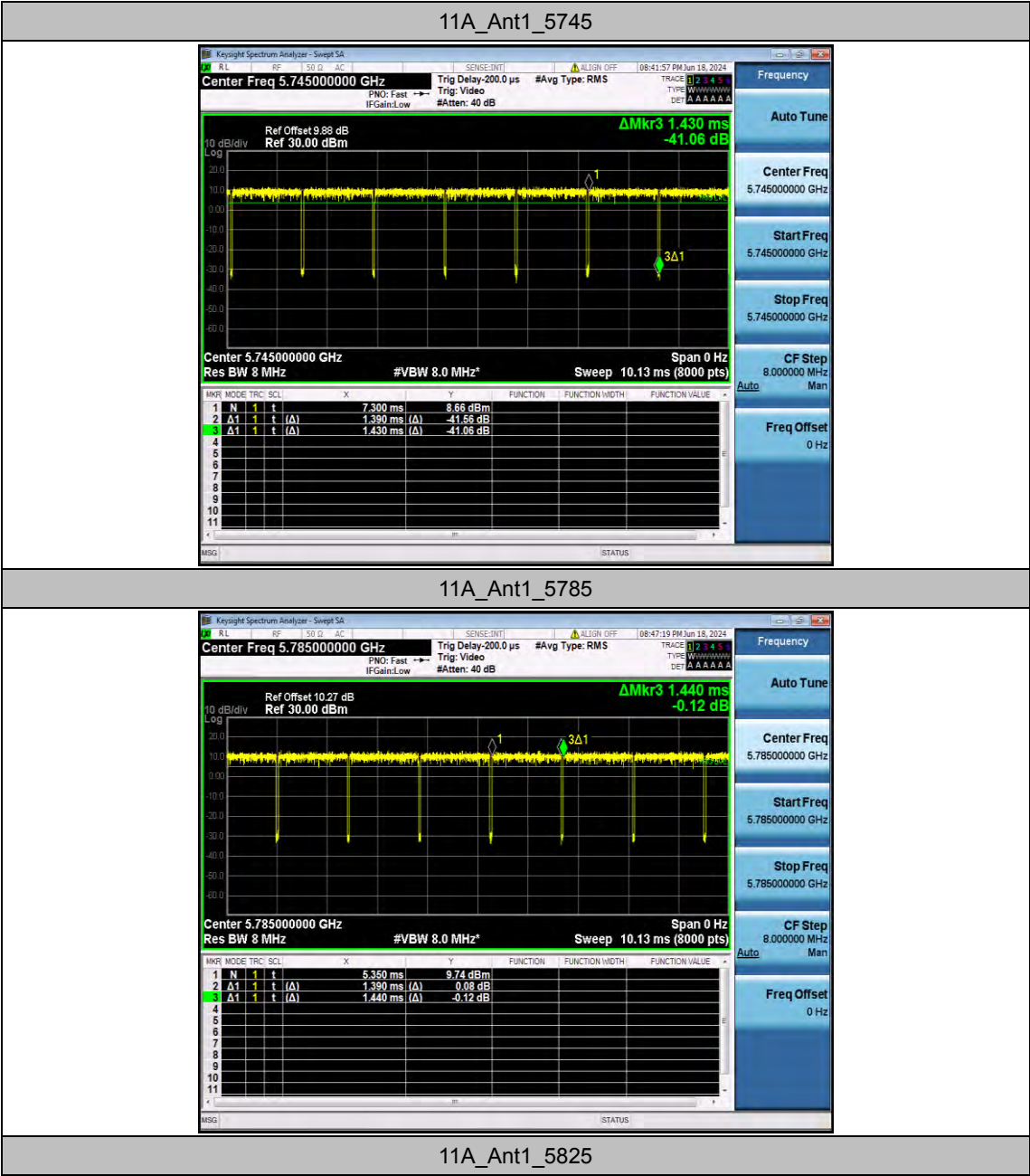


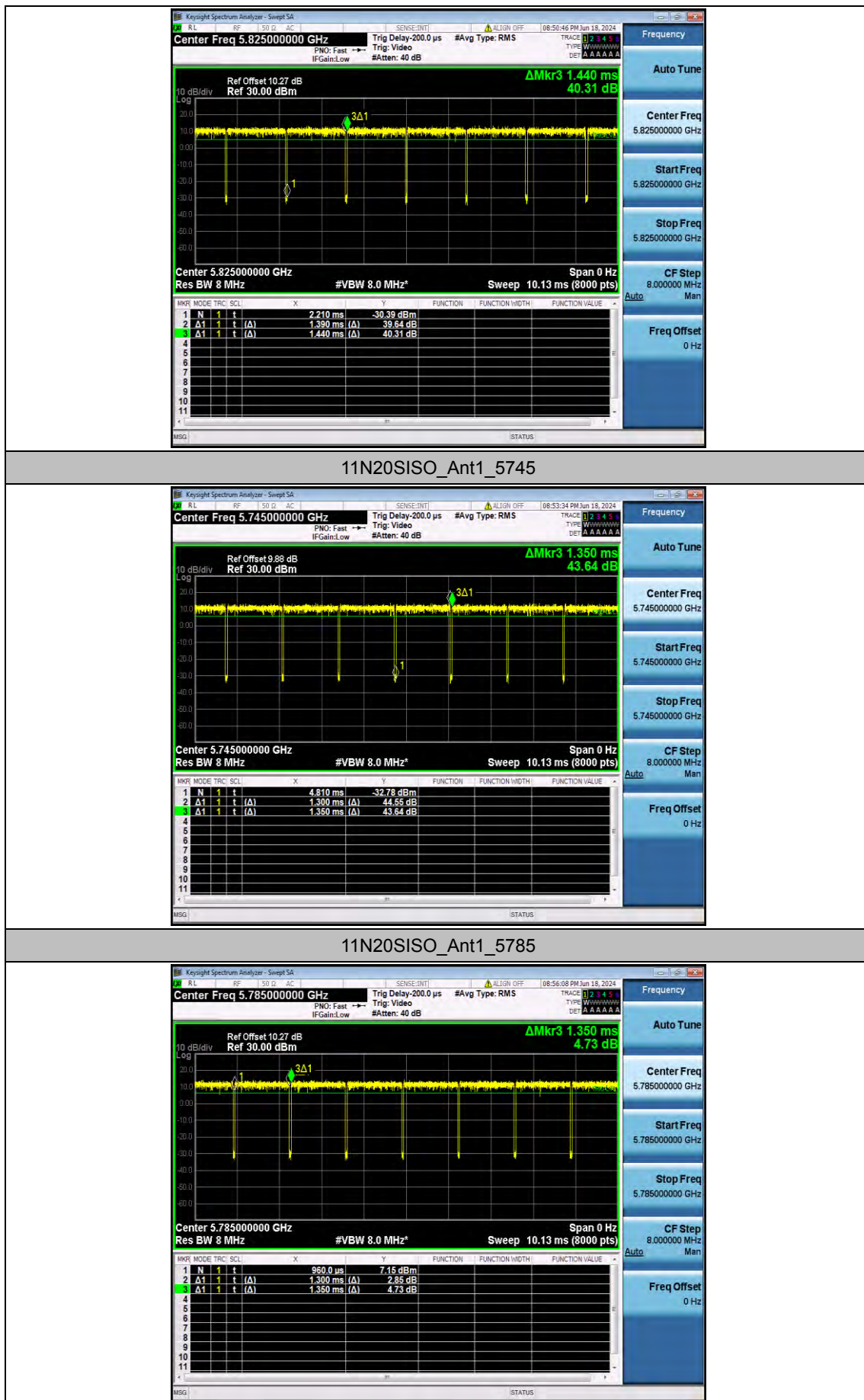
Appendix E.3: Duty Cycle

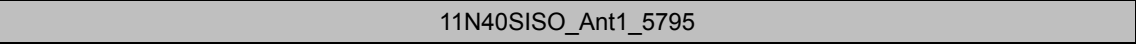
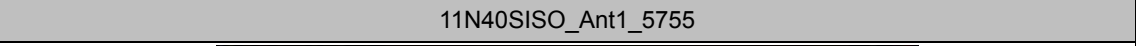
Test Result

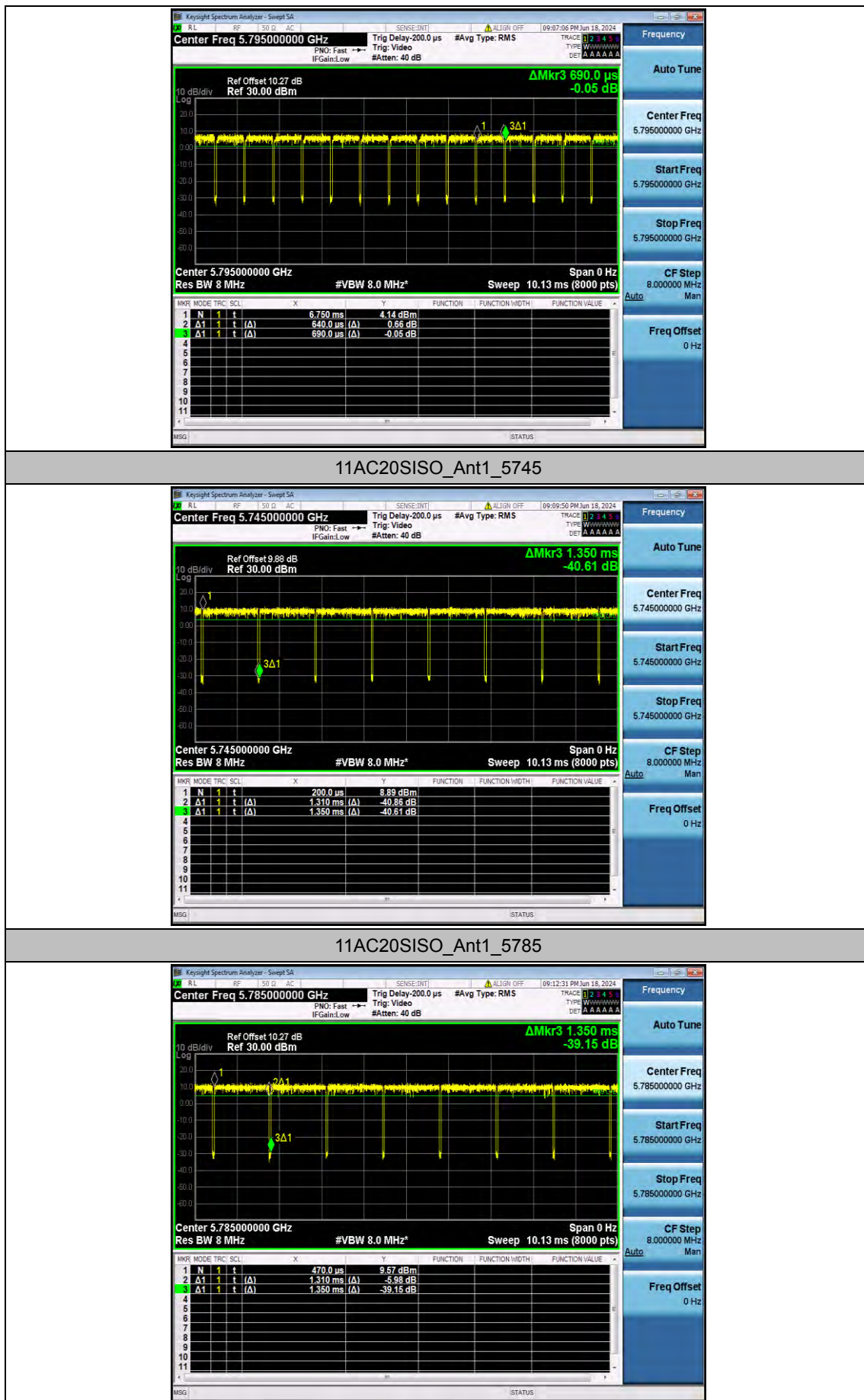
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	1.39	1.43	97.20	0.12	0.72
		5785	1.39	1.44	96.53	0.15	0.72
		5825	1.39	1.44	96.53	0.15	0.72
11N20SISO	Ant1	5745	1.30	1.35	96.30	0.16	0.77
		5785	1.30	1.35	96.30	0.16	0.77
		5825	1.30	1.35	96.30	0.16	0.77
11N40SISO	Ant1	5755	0.64	0.69	92.75	0.33	1.56
		5795	0.64	0.69	92.75	0.33	1.56
11AC20SISO	Ant1	5745	1.31	1.35	97.04	0.13	0.76
		5785	1.31	1.35	97.04	0.13	0.76
		5825	1.31	1.36	96.32	0.16	0.76
11AC40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
		5795	0.65	0.69	94.20	0.26	1.54
11AC80SISO	Ant1	5775	0.33	0.37	89.19	0.50	3.03

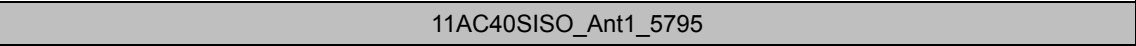
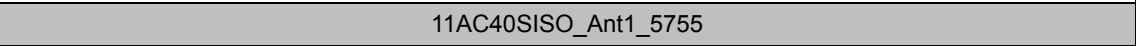
Test Graphs

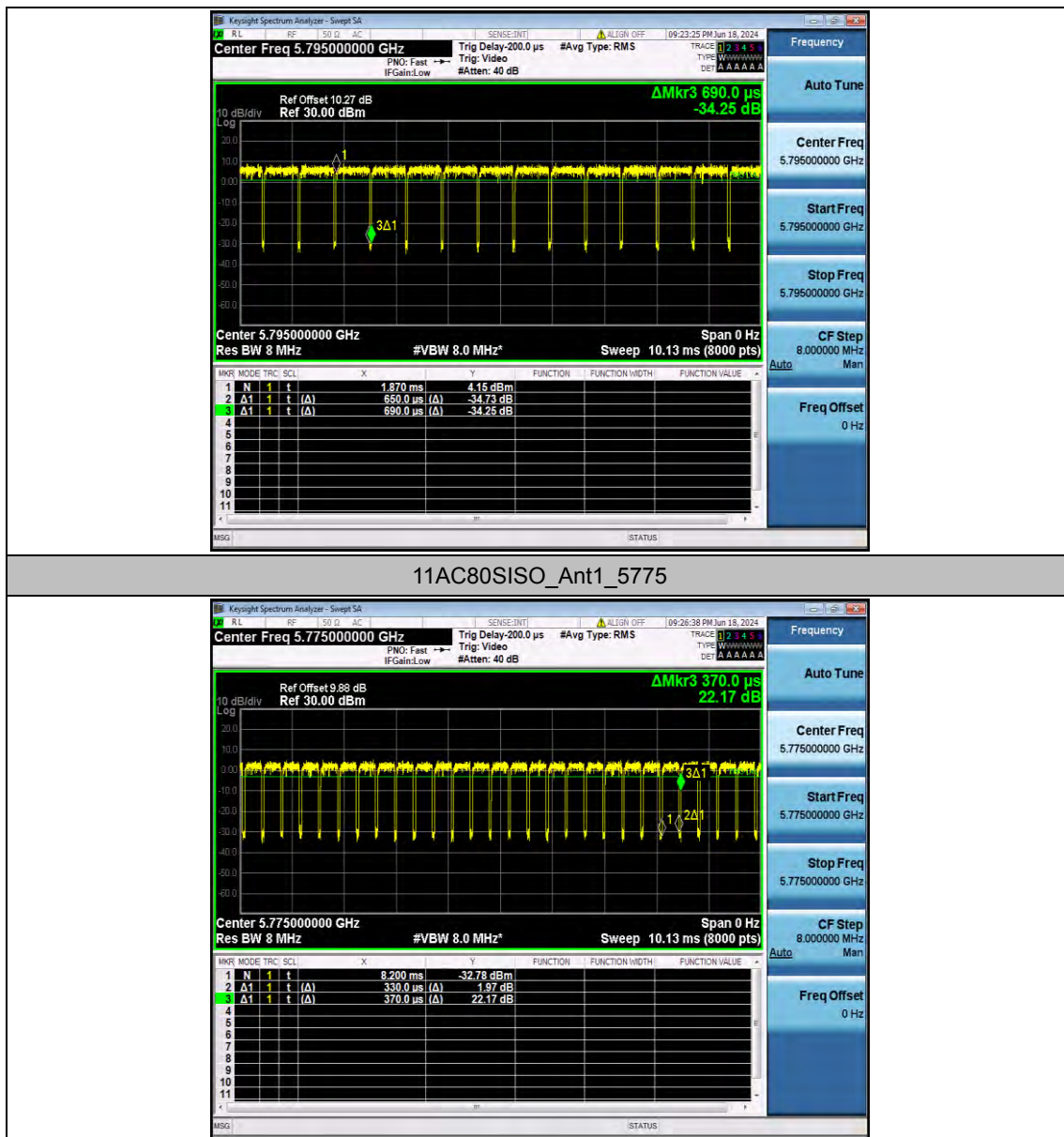












Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	11.33	97.20	0.12	11.45	≤30.00	PASS
		5785	12.49	96.53	0.15	12.64	≤30.00	PASS
		5825	12.91	96.53	0.15	13.06	≤30.00	PASS
11N20SISO	Ant1	5745	13.40	96.30	0.16	13.56	≤30.00	PASS
		5785	14.31	96.30	0.16	14.47	≤30.00	PASS
		5825	14.38	96.30	0.16	14.54	≤30.00	PASS
11N40SISO	Ant1	5755	10.15	92.75	0.33	10.48	≤30.00	PASS
		5795	11.31	92.75	0.33	11.64	≤30.00	PASS
11AC20SISO	Ant1	5745	11.65	97.04	0.13	11.78	≤30.00	PASS
		5785	12.50	97.04	0.13	12.63	≤30.00	PASS
		5825	12.68	96.32	0.16	12.84	≤30.00	PASS
11AC40SISO	Ant1	5755	10.16	94.20	0.26	10.42	≤30.00	PASS
		5795	11.29	94.20	0.26	11.55	≤30.00	PASS
11AC80SISO	Ant1	5775	10.35	89.19	0.50	10.85	≤30.00	PASS

Note:

1. The Duty Cycle Factor is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the data.

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-1.59	≤30.00	PASS
		5785	-0.37	≤30.00	PASS
		5825	-0.15	≤30.00	PASS
11N20SISO	Ant1	5745	0.10	≤30.00	PASS
		5785	0.92	≤30.00	PASS
		5825	1.10	≤30.00	PASS
11N40SISO	Ant1	5755	-5.64	≤30.00	PASS
		5795	-4.66	≤30.00	PASS
11AC20SISO	Ant1	5745	-1.70	≤30.00	PASS
		5785	-0.96	≤30.00	PASS
		5825	-0.61	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.79	≤30.00	PASS
		5795	-4.82	≤30.00	PASS
11AC80SISO	Ant1	5775	-8.40	≤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.

Test Graphs

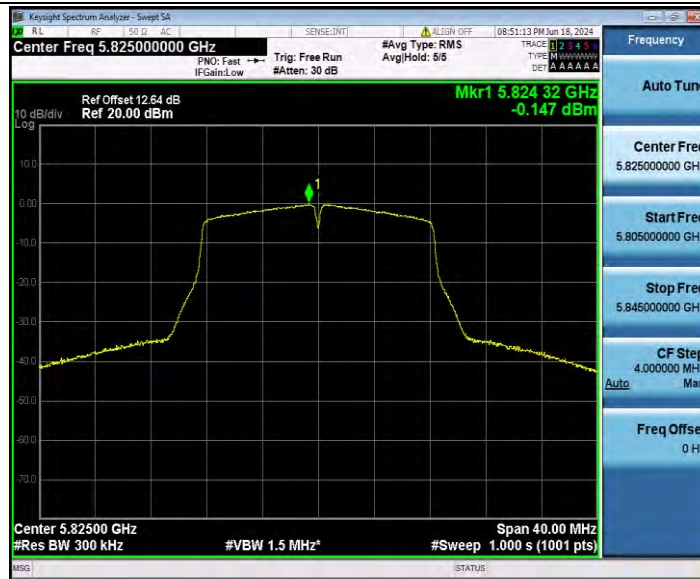
11A_Ant1_5745



11A_Ant1_5785



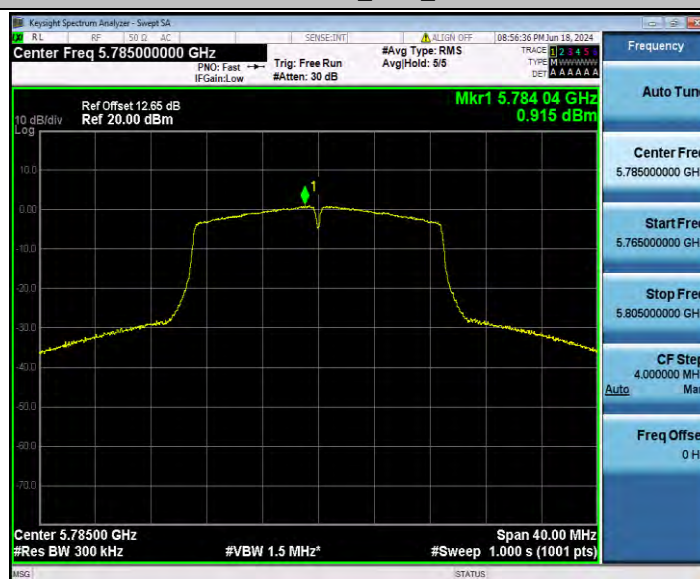
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



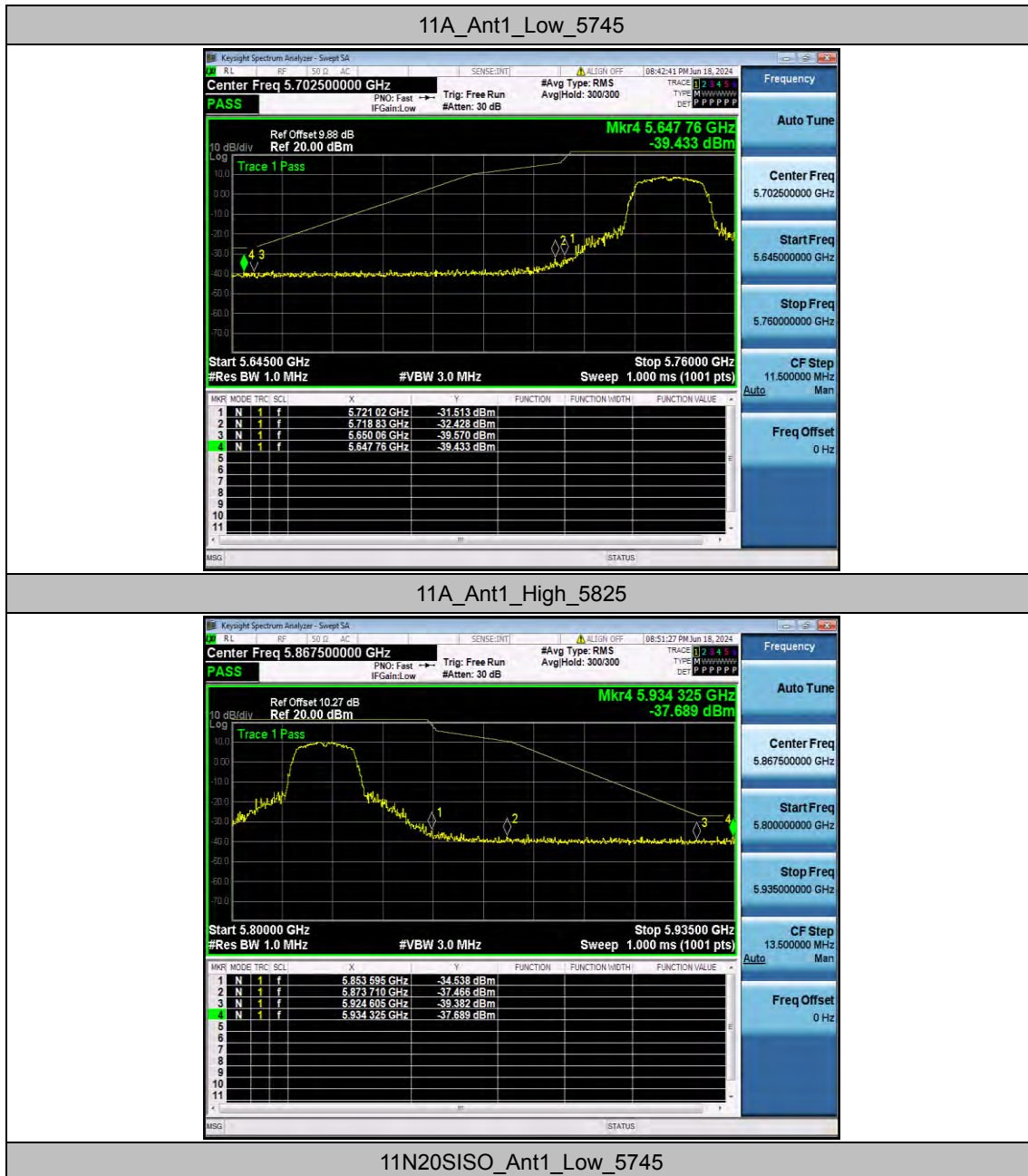
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-39.57	≤-26.96	PASS
				5700~5720	-32.43	≤15.27	PASS
				5720~5725	-31.51	≤17.91	PASS
				5760~5650	-39.43	≤-27	PASS
		High	5825	5850~5855	-34.54	≤18.80	PASS
				5855~5875	-37.47	≤10.36	PASS
				5875~5925	-39.38	≤-26.71	PASS
				5925~5935	-37.69	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-38.83	≤-26.45	PASS
				5700~5720	-24.84	≤15.47	PASS
				5720~5725	-23.04	≤17.13	PASS
				5760~5650	-39.29	≤-27	PASS
		High	5825	5850~5855	-32.04	≤15.73	PASS
				5855~5875	-31.18	≤14.59	PASS
				5875~5925	-38.13	≤-25.41	PASS
				5925~5935	-38.59	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-38.82	≤-26.80	PASS
				5700~5720	-22.93	≤15.39	PASS
				5720~5725	-23.02	≤15.74	PASS
				5780~5650	-39.38	≤-27	PASS
		High	5795	5850~5855	-37.72	≤16.79	PASS
				5855~5875	-36.42	≤11.68	PASS
				5875~5925	-39.4	≤-26.95	PASS
				5925~5935	-37.79	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-38.35	≤-25.51	PASS
				5700~5720	-29.53	≤15.34	PASS
				5720~5725	-28.15	≤17.13	PASS
				5760~5650	-38.14	≤-27	PASS
		High	5825	5850~5855	-35.27	≤15.73	PASS
				5855~5875	-38.26	≤10.70	PASS
				5875~5925	-39.07	≤-26.91	PASS
				5925~5935	-38.06	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-38.15	≤-24.91	PASS
				5700~5720	-28.01	≤13.54	PASS
				5720~5725	-29.94	≤15.74	PASS
				5780~5650	-38.59	≤-27	PASS

		High	5795	5850~5855	-38.4	≤ 16.03	PASS
				5855~5875	-37.67	≤ 11.36	PASS
				5875~5925	-39.85	≤ -26.95	PASS
				5925~5935	-38.39	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.54	≤ -26.46	PASS
				5700~5720	-28.43	≤ 10.40	PASS
				5720~5725	-27.82	≤ 15.65	PASS
				5800~5650	-39.4	≤ -27	PASS
		High	5775	5850~5855	-33.21	≤ 16.26	PASS
				5855~5875	-32.46	≤ 11.69	PASS
				5875~5925	-39.65	≤ -26.87	PASS
				5925~5935	-38.35	≤ -27	PASS

Test Graphs B4





11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



Appendix E.7: Conducted Spurious Emission

Test Result

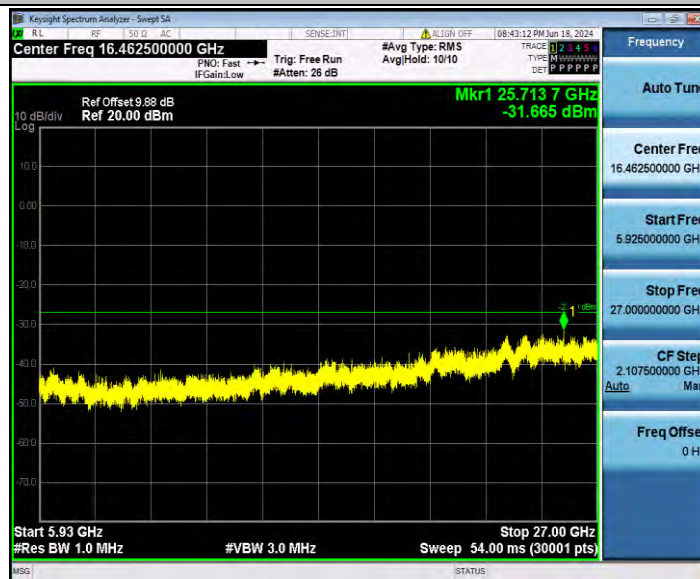
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	4914.72	-39.18	≤-27	PASS
			5925~27000	25713.72	-31.67	≤-27	PASS
		5785	30~5650	5390.36	-39.62	≤-27	PASS
			5925~27000	24850.35	-31.59	≤-27	PASS
		5825	30~5650	5382.86	-39.55	≤-27	PASS
			5925~27000	26835.62	-31.97	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5451.43	-40.17	≤-27	PASS
			5925~27000	24282.73	-32.26	≤-27	PASS
		5785	30~5650	5451.24	-39.83	≤-27	PASS
			5925~27000	26041.79	-31.96	≤-27	PASS
		5825	30~5650	5045.48	-39.74	≤-27	PASS
			5925~27000	23528.25	-32.37	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	825.23	-39.14	≤-27	PASS
			5925~27000	24794.85	-32.18	≤-27	PASS
		5795	30~5650	4979.53	-39.76	≤-27	PASS
			5925~27000	24295.38	-30.42	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	4993.58	-40.2	≤-27	PASS
			5925~27000	23611.14	-31.9	≤-27	PASS
		5785	30~5650	826.35	-39.43	≤-27	PASS
			5925~27000	24275.71	-32.07	≤-27	PASS
		5825	30~5650	5449.74	-39.89	≤-27	PASS
			5925~27000	26534.24	-31.93	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	3317.33	-40.21	≤-27	PASS
			5925~27000	25549.34	-31.59	≤-27	PASS
		5795	30~5650	5434.75	-40.21	≤-27	PASS
			5925~27000	24839.81	-31.69	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5637.82	-40.57	≤-27	PASS
			5925~27000	23505.77	-32.41	≤-27	PASS

Test Graphs

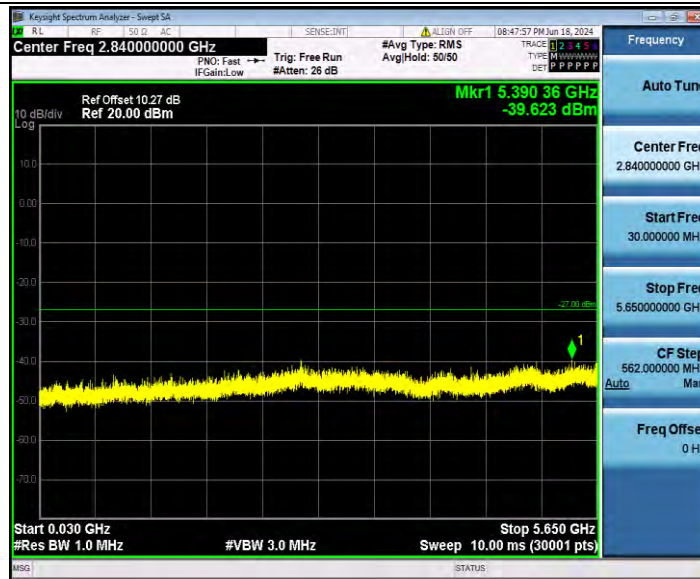
11A_Ant1_5745_30~5650



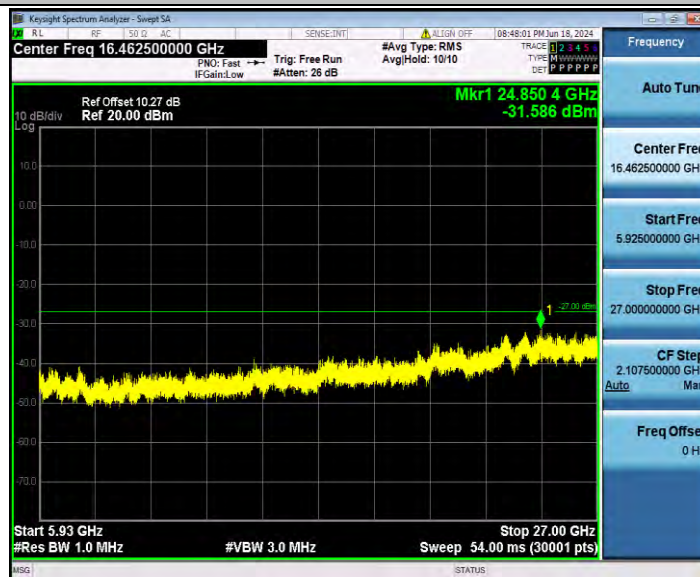
11A_Ant1_5745_5925~27000



11A_Ant1_5785_30~5650



11A_Ant1_5785_5925~27000



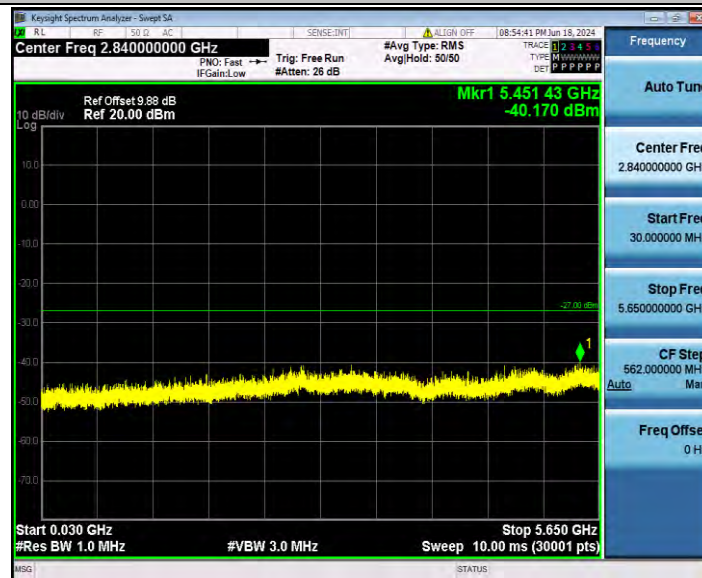
11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



11N20SISO_Ant1_5745_30~5650



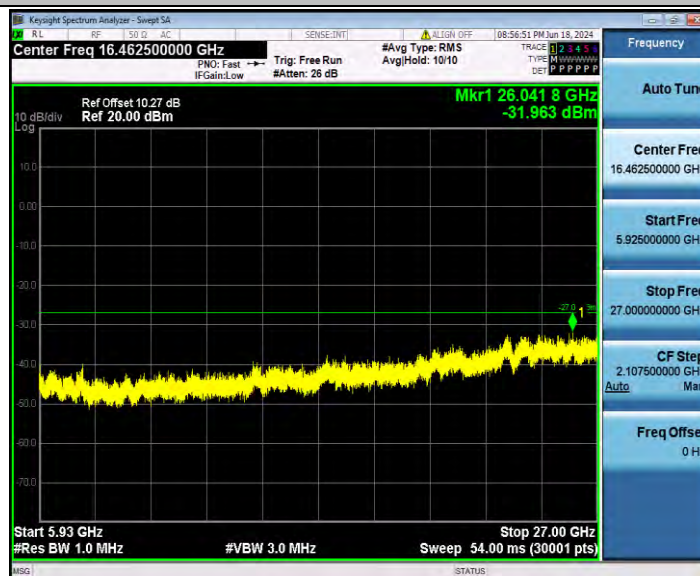
11N20SISO_Ant1_5745_5925~27000



11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~27000



11N20SISO_Ant1_5825_30~5650



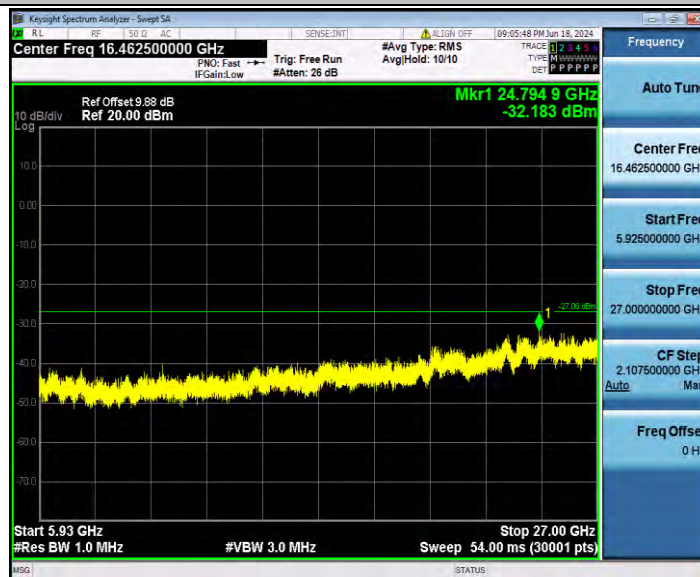
11N20SISO_Ant1_5825_5925~27000



11N40SISO_Ant1_5755_30~5650



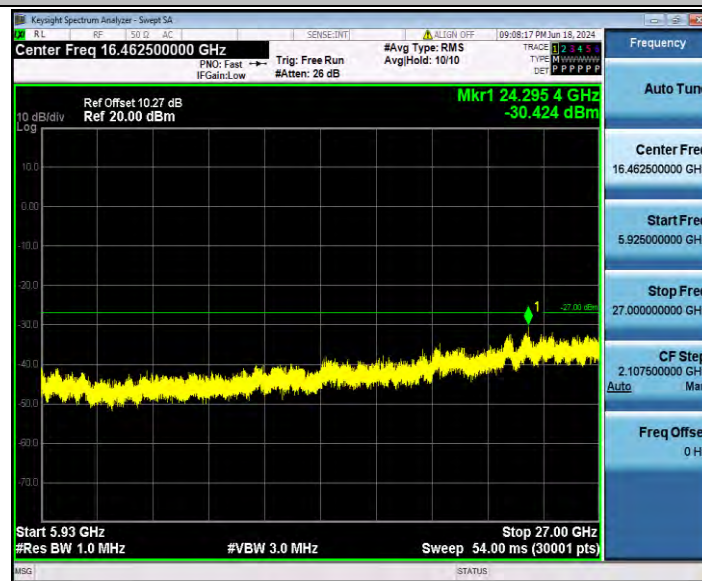
11N40SISO_Ant1_5755_5925~27000



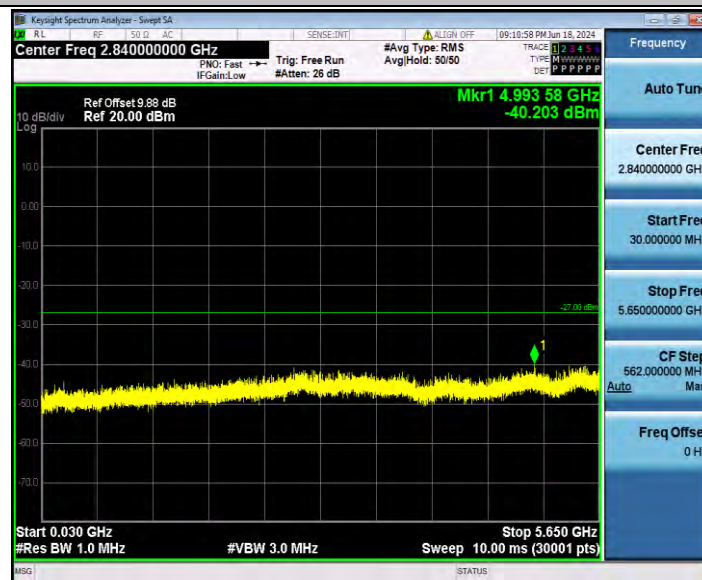
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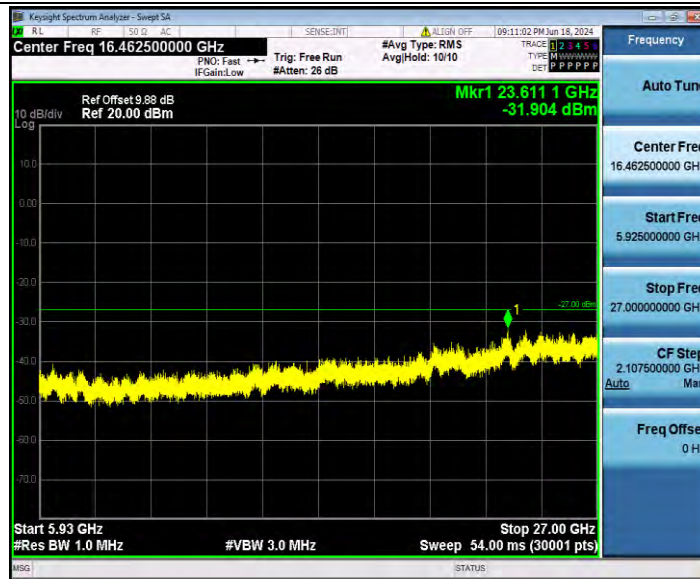
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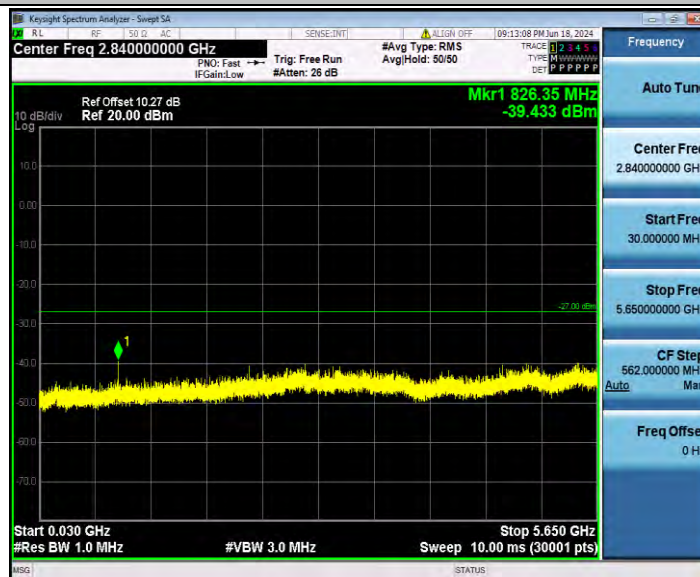
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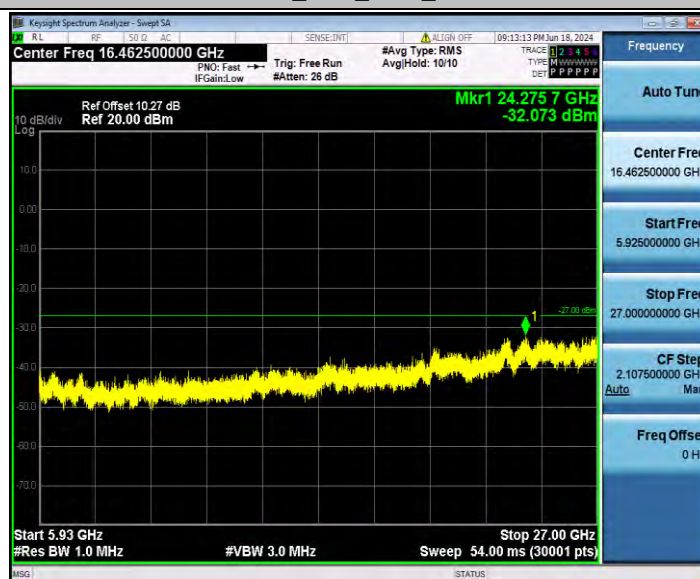
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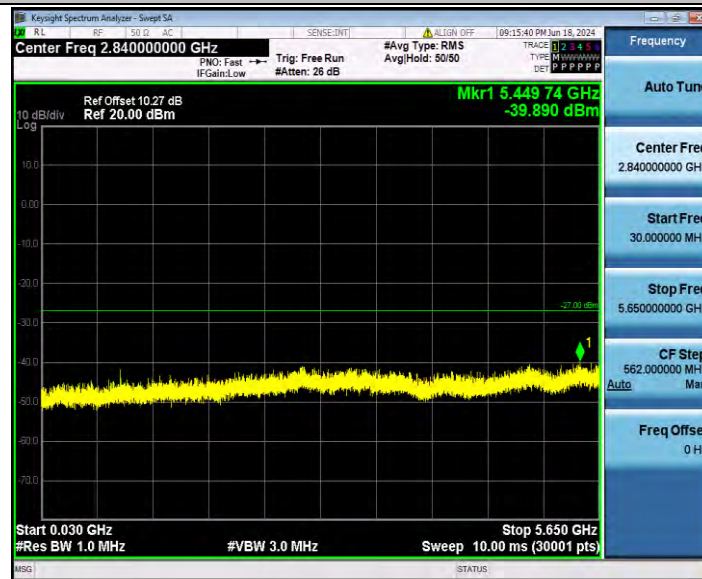
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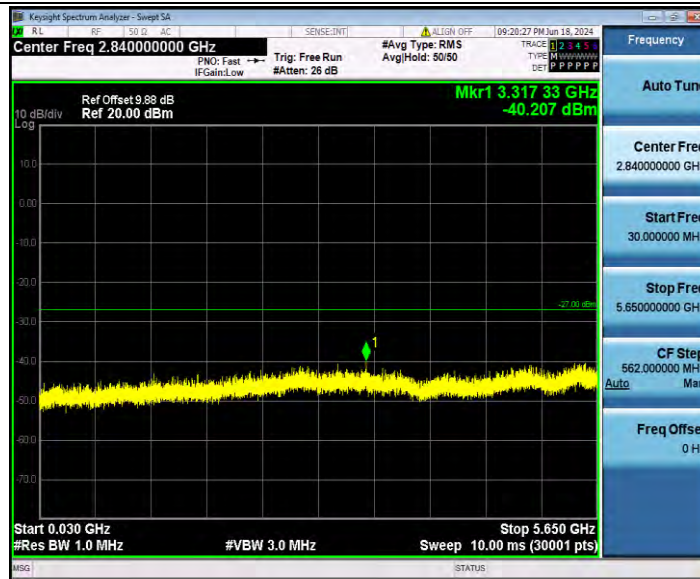
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11AC20SISO_Ant1_5825_5925~27000



11AC40SISO_Ant1_5755_30~5650



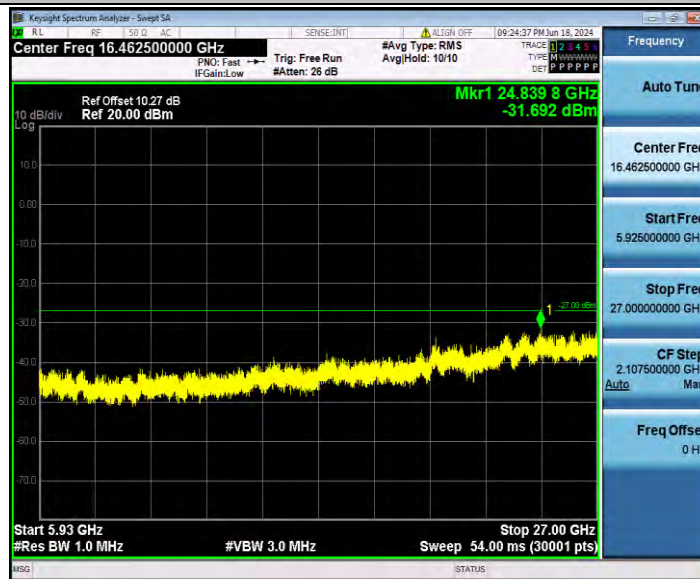
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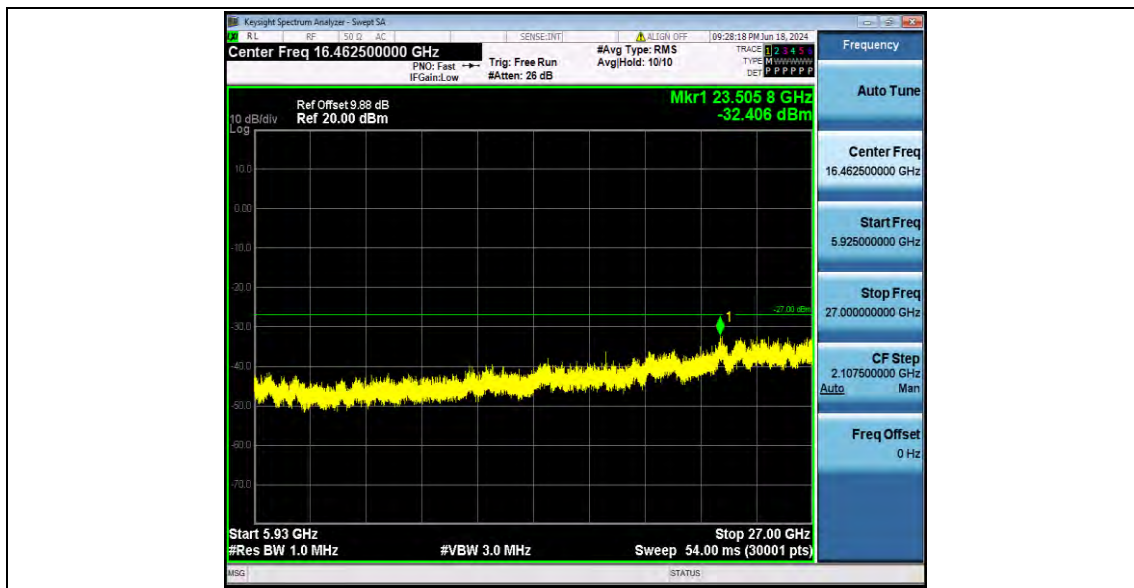
11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000



Appendix E.8: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-39.702	≤-27.00	PASS
				Peak	5700.000	-36.81	≤10.00	PASS
				Peak	5720.000	-33.95	≤15.60	PASS
				Peak	5725.000	-25.74	≤27.00	PASS
		High	5825	Peak	5850.000	-31.366	≤27.00	PASS
				Peak	5855.000	-35.9	≤15.60	PASS
				Peak	5875.000	-38.05	≤10.00	PASS
				Peak	5925.000	-38.78	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-39.993	≤-27.00	PASS
				Peak	5700.000	-38.34	≤10.00	PASS
				Peak	5720.000	-30.26	≤15.60	PASS
				Peak	5725.000	-20.26	≤27.00	PASS
		High	5825	Peak	5850.000	-26.641	≤27.00	PASS
				Peak	5855.000	-32.94	≤15.60	PASS
				Peak	5875.000	-39.12	≤10.00	PASS
				Peak	5925.000	-38.98	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-39.994	≤-27.00	PASS
				Peak	5700.000	-35.92	≤10.00	PASS
				Peak	5720.000	-27.76	≤15.60	PASS
				Peak	5725.000	-24.39	≤27.00	PASS
		High	5795	Peak	5850.000	-37.43	≤27.00	PASS
				Peak	5855.000	-38.78	≤15.60	PASS
				Peak	5875.000	-38.09	≤10.00	PASS
				Peak	5925.000	-38.5	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-39.096	≤-27.00	PASS
				Peak	5700.000	-38.51	≤10.00	PASS
				Peak	5720.000	-30.19	≤15.60	PASS
				Peak	5725.000	-23.68	≤27.00	PASS
		High	5825	Peak	5850.000	-30.273	≤27.00	PASS
				Peak	5855.000	-36.22	≤15.60	PASS
				Peak	5875.000	-36.76	≤10.00	PASS
				Peak	5925.000	-38.09	≤-27.00	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-39.687	≤-27.00	PASS
				Peak	5700.000	-39.6	≤10.00	PASS
				Peak	5720.000	-31	≤15.60	PASS
				Peak	5725.000	-25.62	≤27.00	PASS

11AC80SISO	Ant1	High	5795	Peak	5850.000	-37.649	≤27.00	PASS
				Peak	5855.000	-36.1	≤15.60	PASS
				Peak	5875.000	-39.02	≤10.00	PASS
				Peak	5925.000	-38.9	≤-27.00	PASS
		Low	5775	Peak	5650.000	-39.144	≤-27.00	PASS
				Peak	5700.000	-29.04	≤10.00	PASS
				Peak	5720.000	-26.62	≤15.60	PASS
				Peak	5725.000	-31.03	≤27.00	PASS
		High	5775	Peak	5850.000	-27.46	≤27.00	PASS
				Peak	5855.000	-33.13	≤15.60	PASS
				Peak	5875.000	-36.84	≤10.00	PASS
				Peak	5925.000	-38.48	≤-27.00	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. 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





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



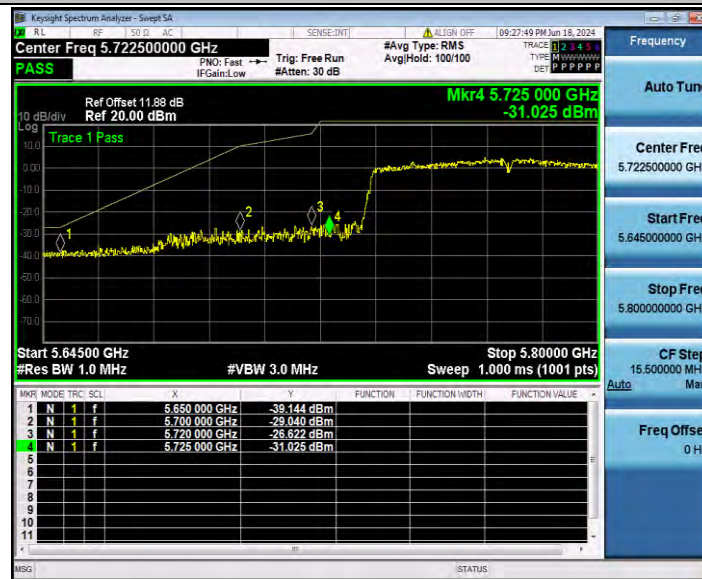
11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak

