

Case No. : <u>GTS20231117002-1-4</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.11.29</u> Test Engineer: <u>Evan ouyang</u>

Appendix G.1: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.252	5736.373	5753.625	---	---
		5785	17.183	5776.369	5793.552	---	---
		5825	17.024	5816.464	5833.488	---	---
11N20SISO	Ant1	5745	17.897	5736.083	5753.980	---	---
		5785	17.880	5776.074	5793.954	---	---
		5825	17.851	5816.084	5833.935	---	---
11N40SISO	Ant1	5755	36.517	5736.940	5773.457	---	---
		5795	36.440	5776.854	5813.294	---	---
11AC20SISO	Ant1	5745	17.853	5736.112	5753.965	---	---
		5785	17.790	5776.133	5793.923	---	---
		5825	17.819	5816.124	5833.943	---	---
11AC40SISO	Ant1	5755	36.336	5737.005	5773.341	---	---
		5795	36.289	5776.920	5813.209	---	---
11AC80SISO	Ant1	5775	76.046	5737.138	5813.184	---	---

Test Graphs



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



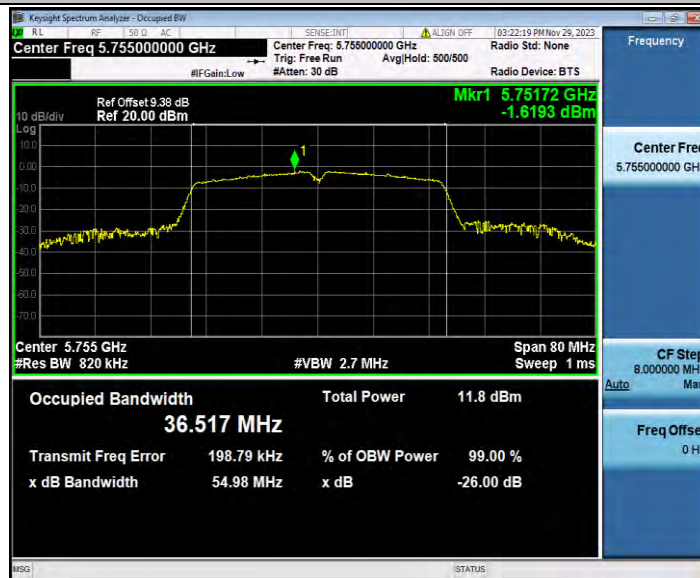
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



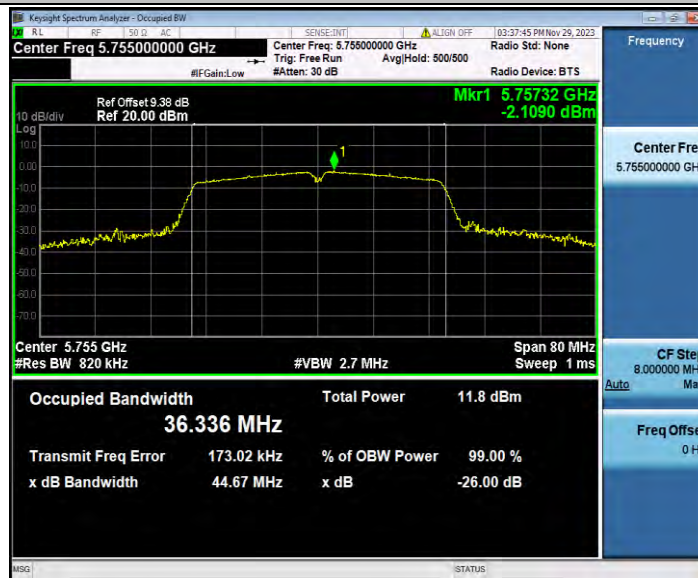
11A20SISO_Ant1_5745



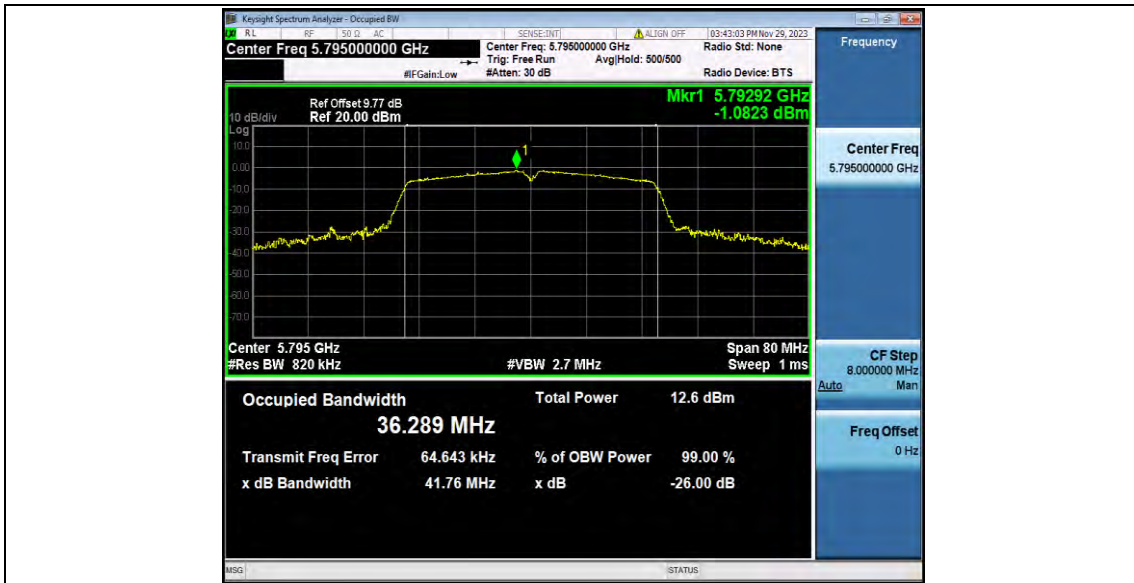
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



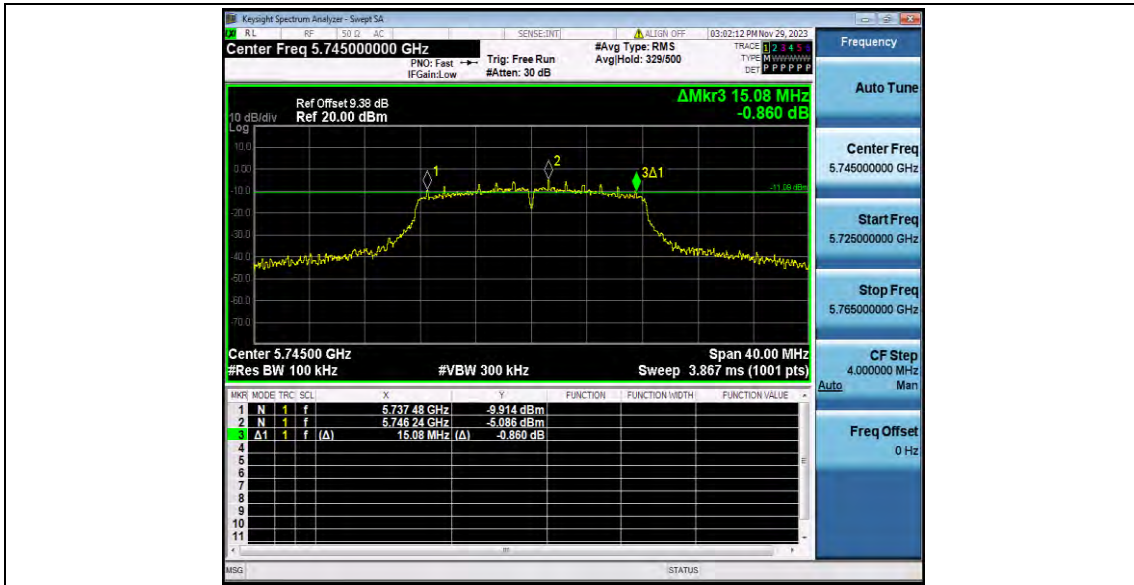
11AC80SISO_Ant1_5775

Appendix G.2: Min emission bandwidth

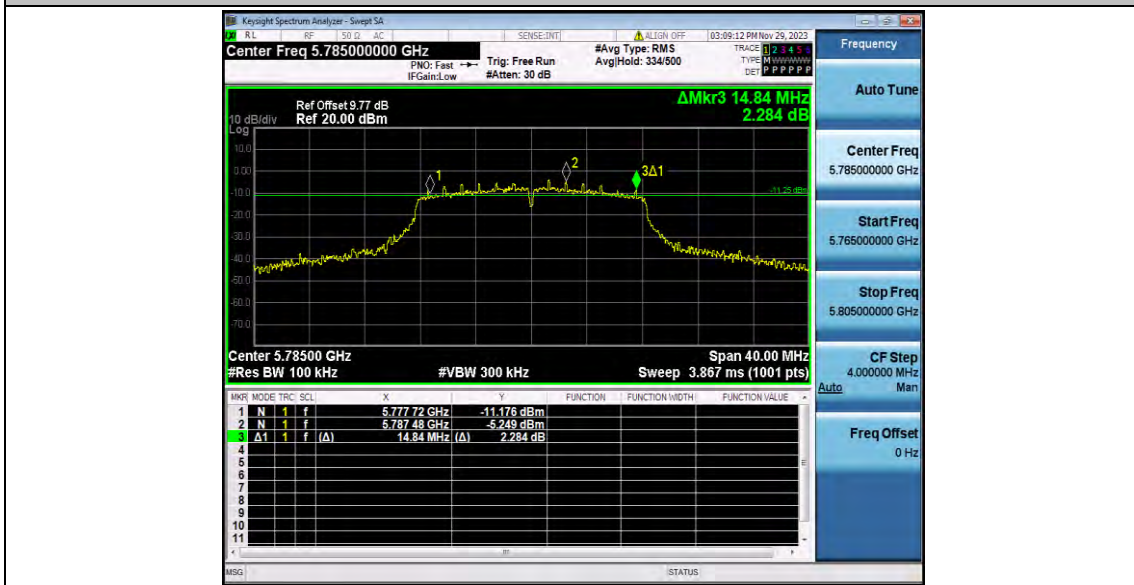
Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.080	5737.480	5752.560	0.5	PASS
		5785	14.840	5777.720	5792.560	0.5	PASS
		5825	15.080	5817.480	5832.560	0.5	PASS
11N20SISO	Ant1	5745	13.880	5738.680	5752.560	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	14.200	5818.360	5832.560	0.5	PASS
11N40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	14.960	5817.520	5832.480	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4



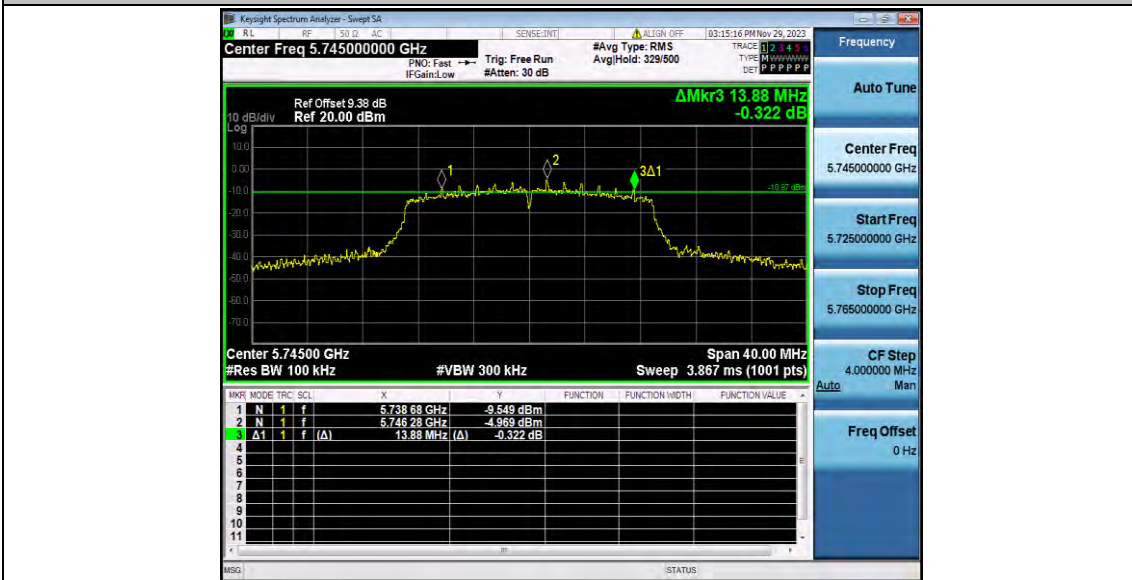
11A_Ant1_5745



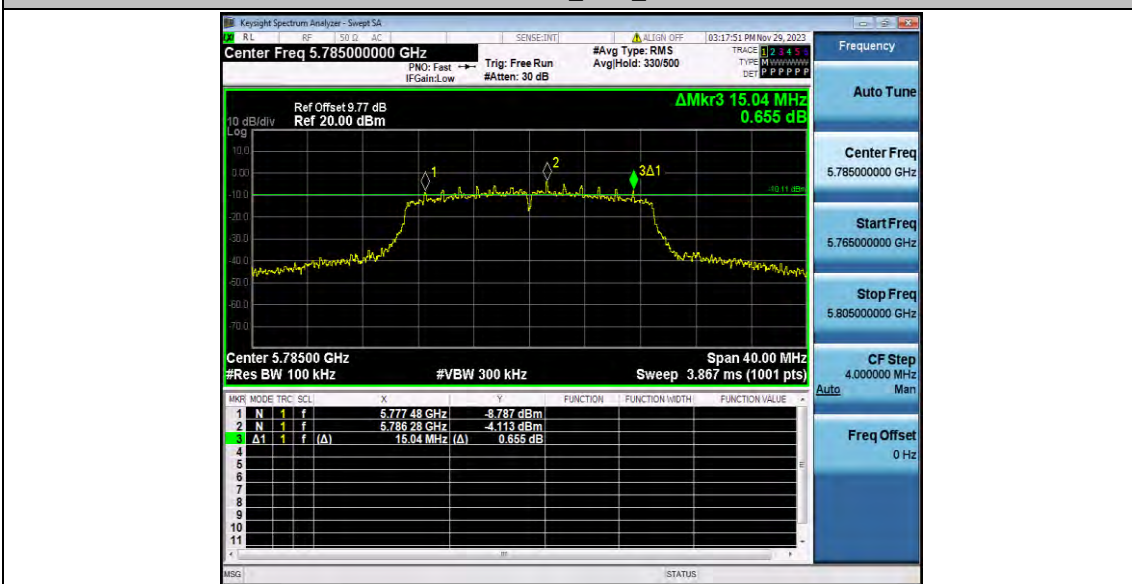
11A_Ant1_5785



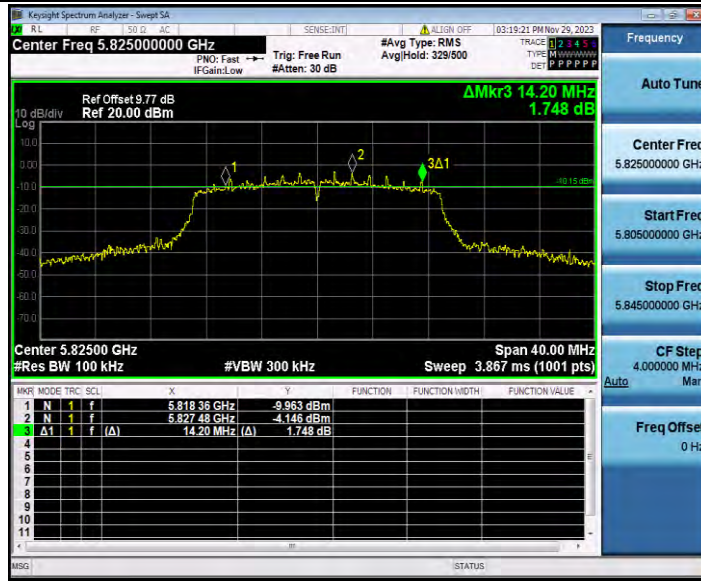
11A_Ant1_5825



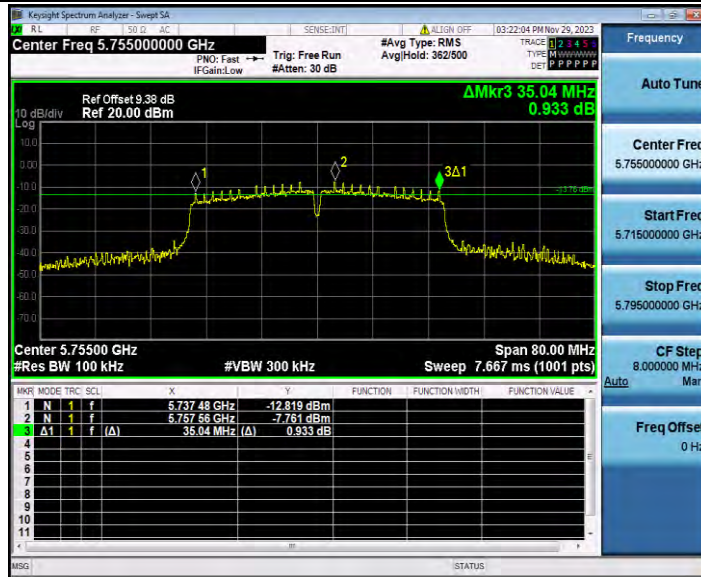
11N20SISO_Ant1_5745



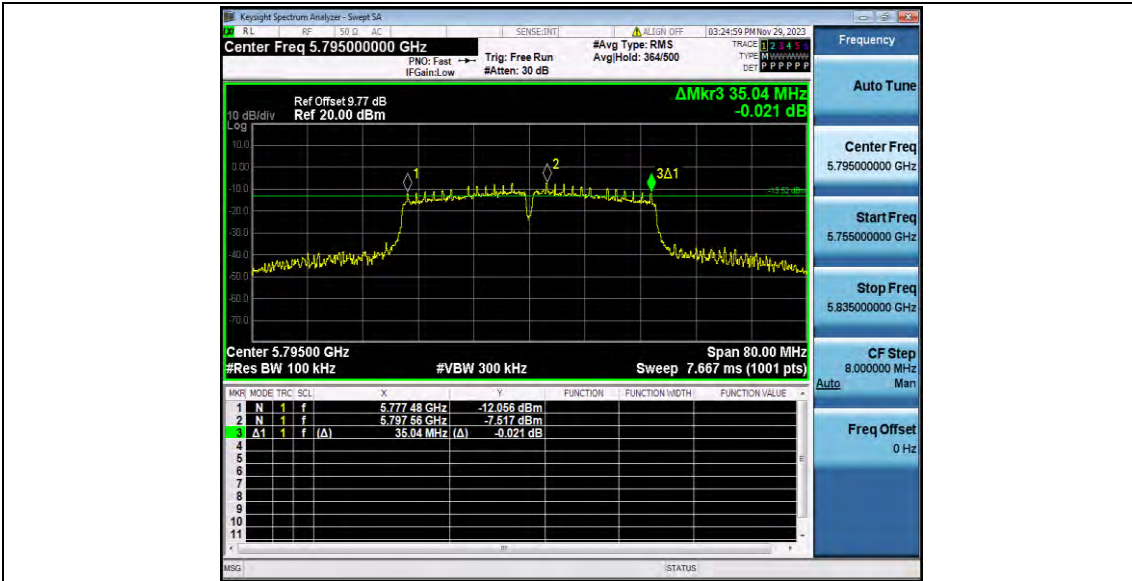
11N20SISO_Ant1_5785



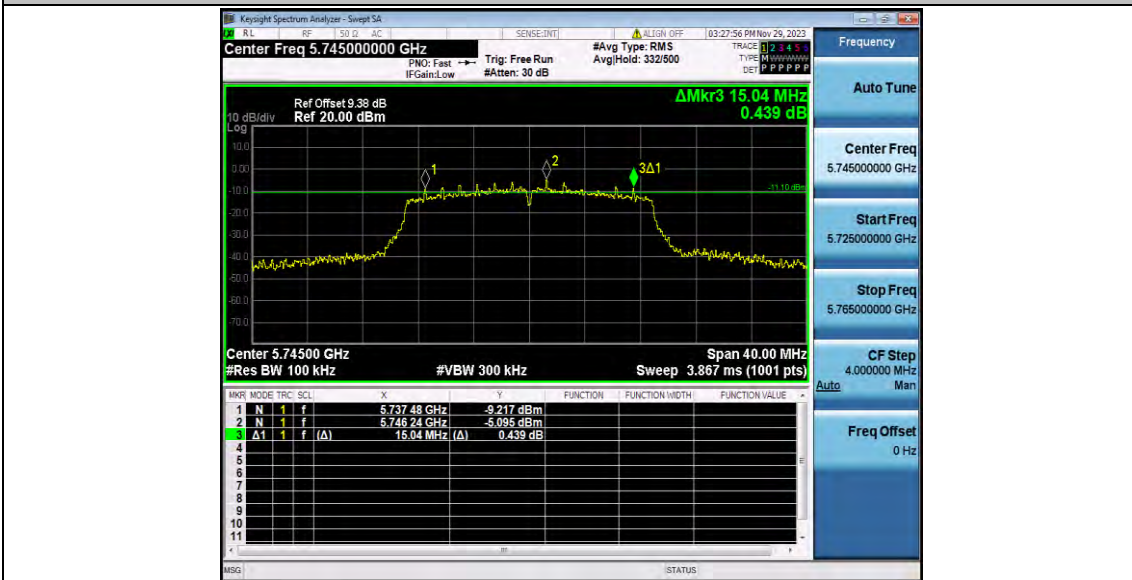
11N20SISO_Ant1_5825



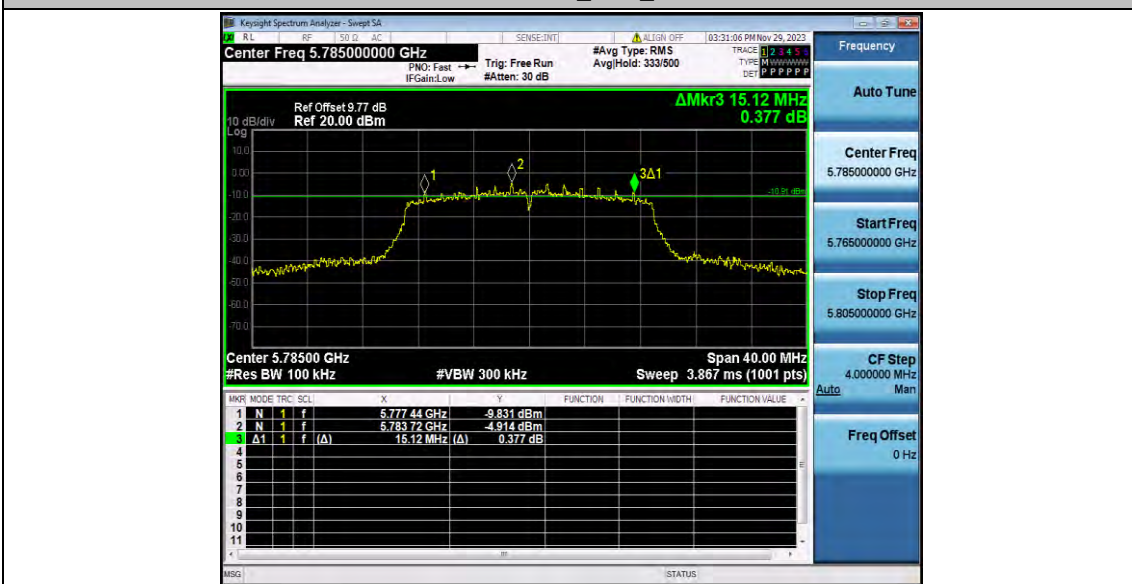
11N40SISO_Ant1_5755



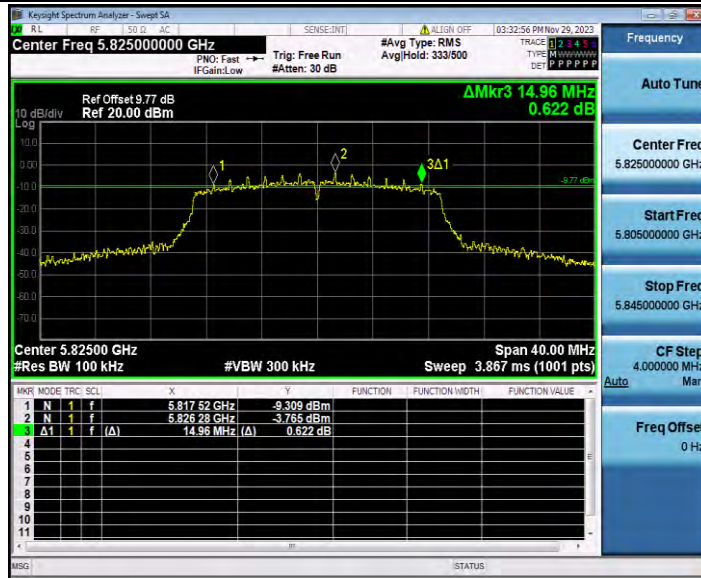
11N40SISO_Ant1_5795



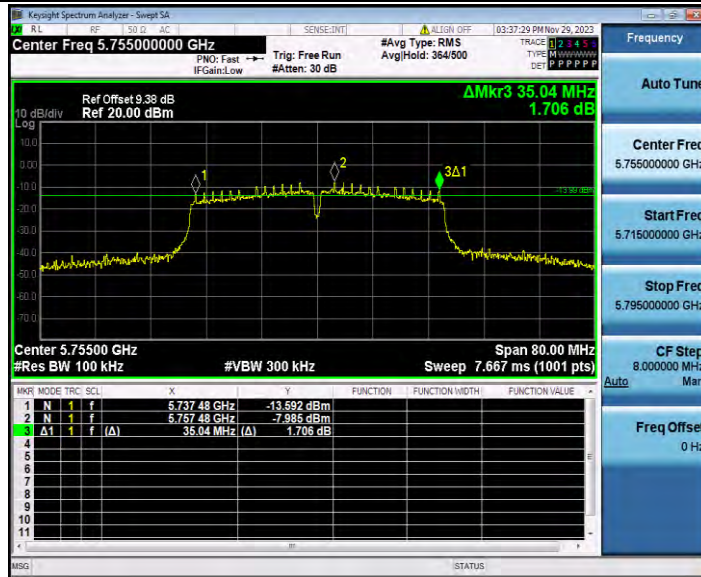
11AC20SISO_Ant1_5745



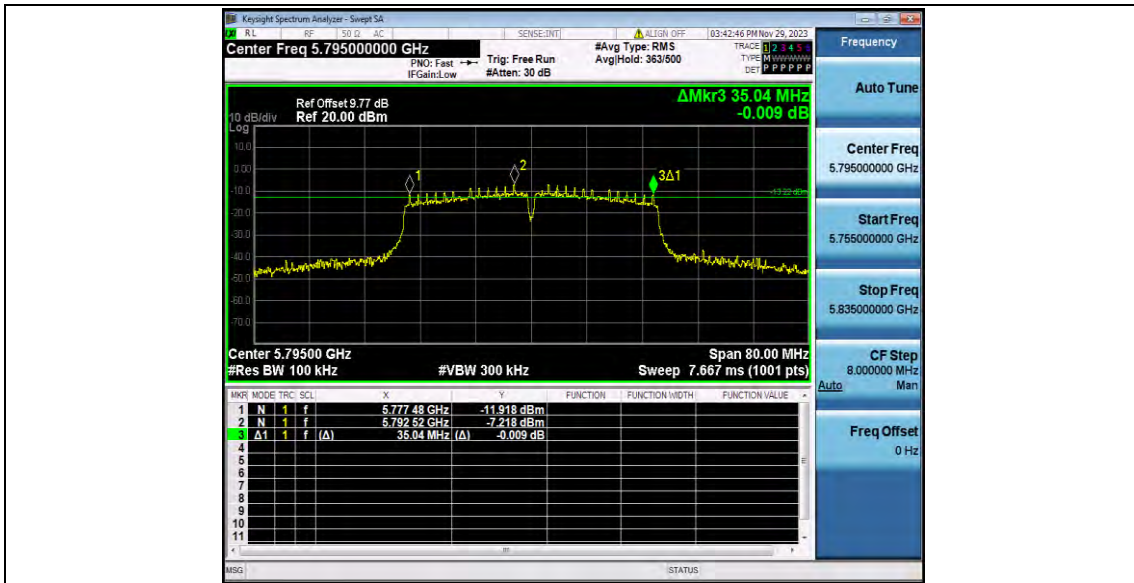
11AC20SISO_Ant1_5785



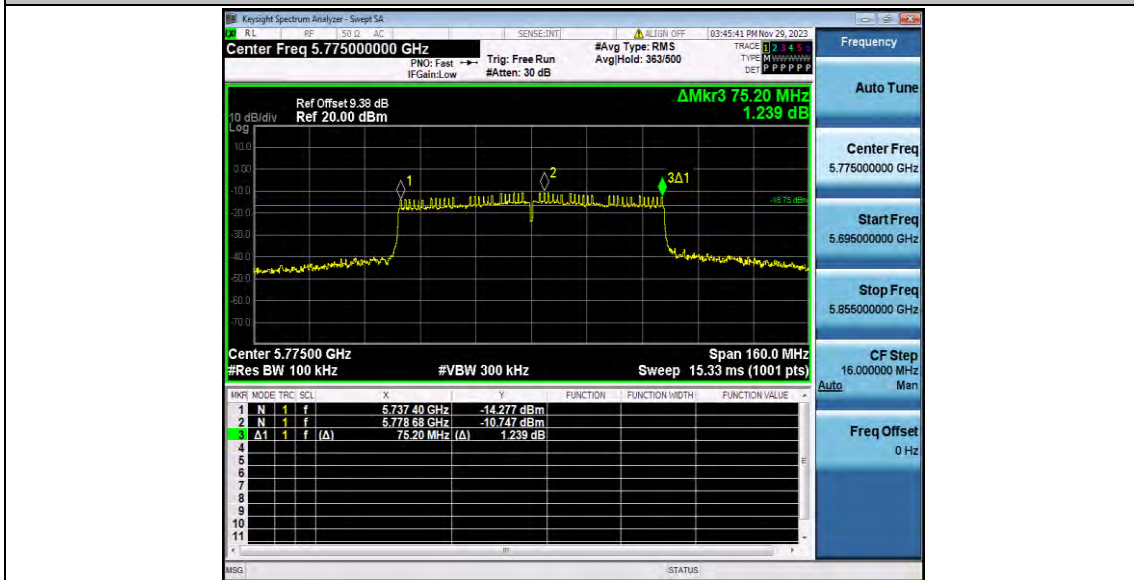
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



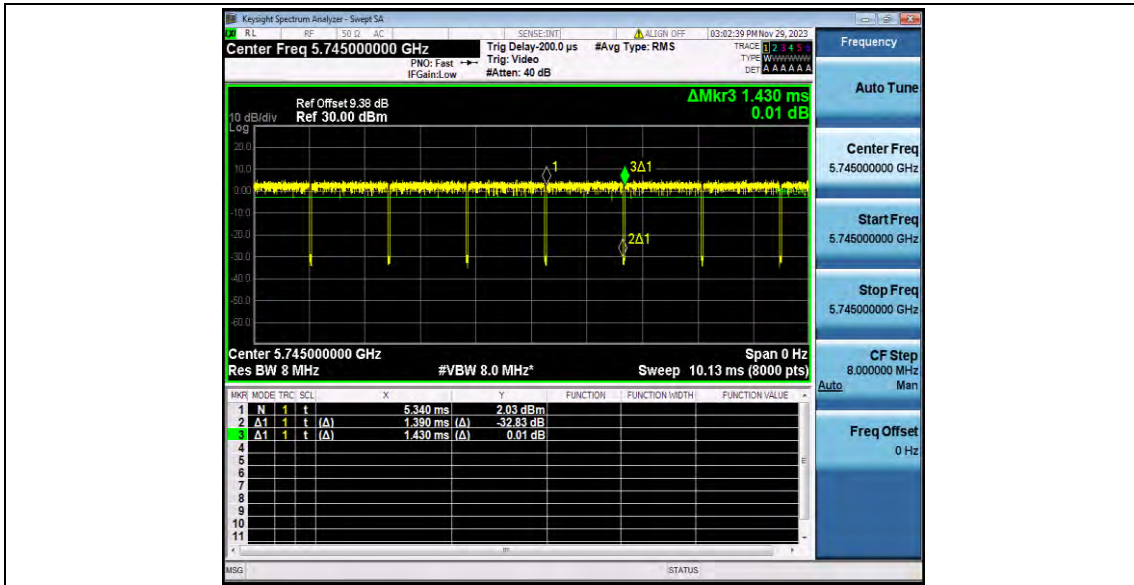
11AC80SISO_Ant1_5775

Appendix G.3: Duty Cycle

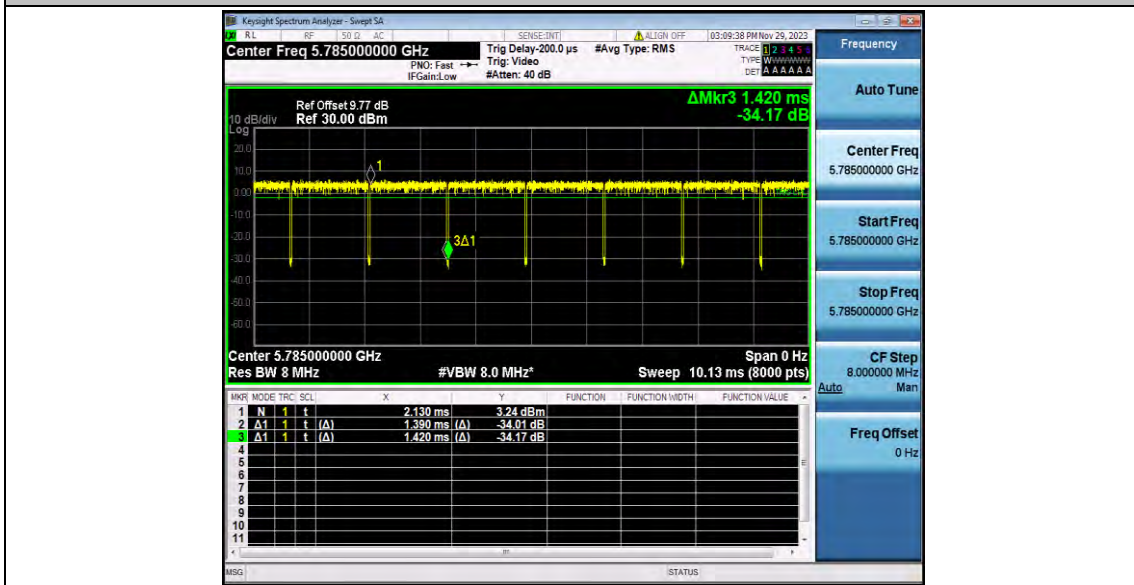
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	1.39	1.43	97.20
		5785	1.39	1.42	97.89
		5825	1.39	1.43	97.20
11N20SISO	Ant1	5745	1.30	1.33	97.74
		5785	1.30	1.34	97.01
		5825	1.30	1.33	97.74
11N40SISO	Ant1	5755	0.64	0.68	94.12
		5795	0.64	0.68	94.12
11AC20SISO	Ant1	5745	1.31	1.35	97.04
		5785	1.32	1.35	97.78
		5825	1.31	1.34	97.76
11AC40SISO	Ant1	5755	0.65	0.69	94.20
		5795	0.66	0.69	95.65
11AC80SISO	Ant1	5775	0.33	0.36	91.67

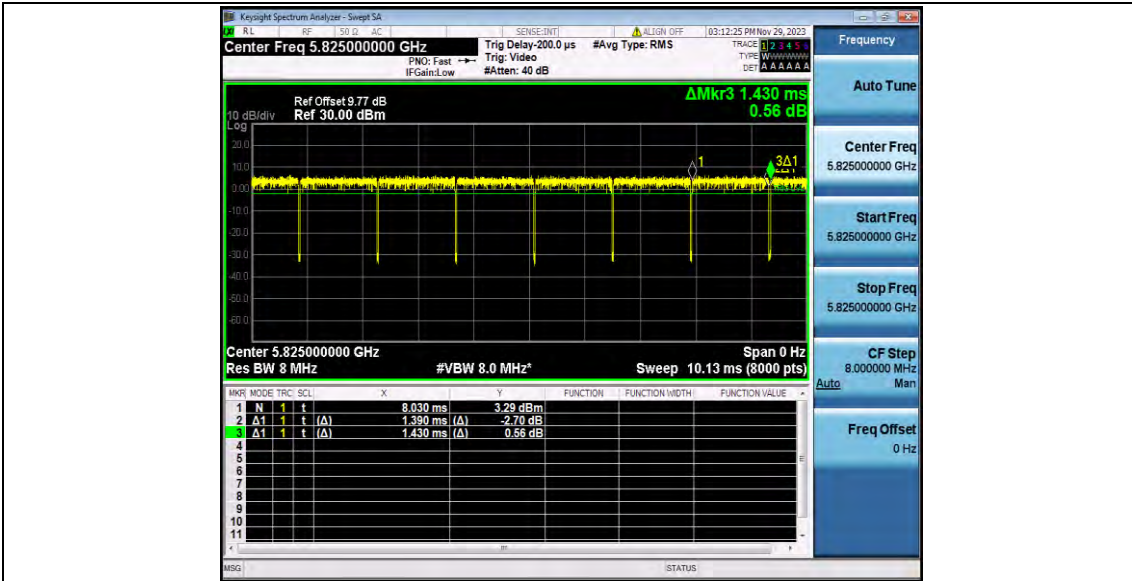
Test Graphs



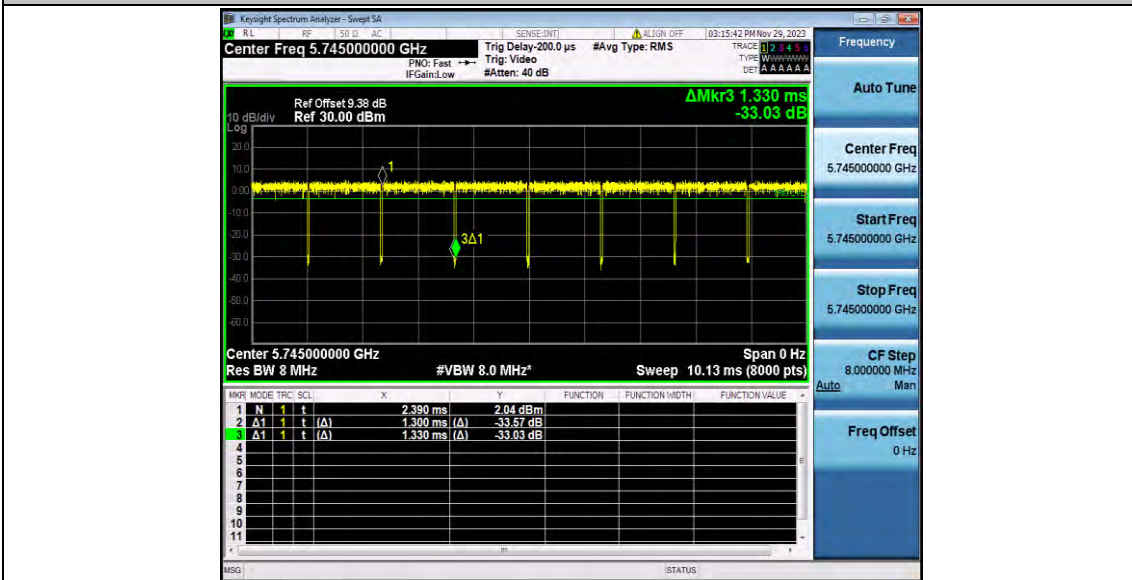
11A_Ant1_5745



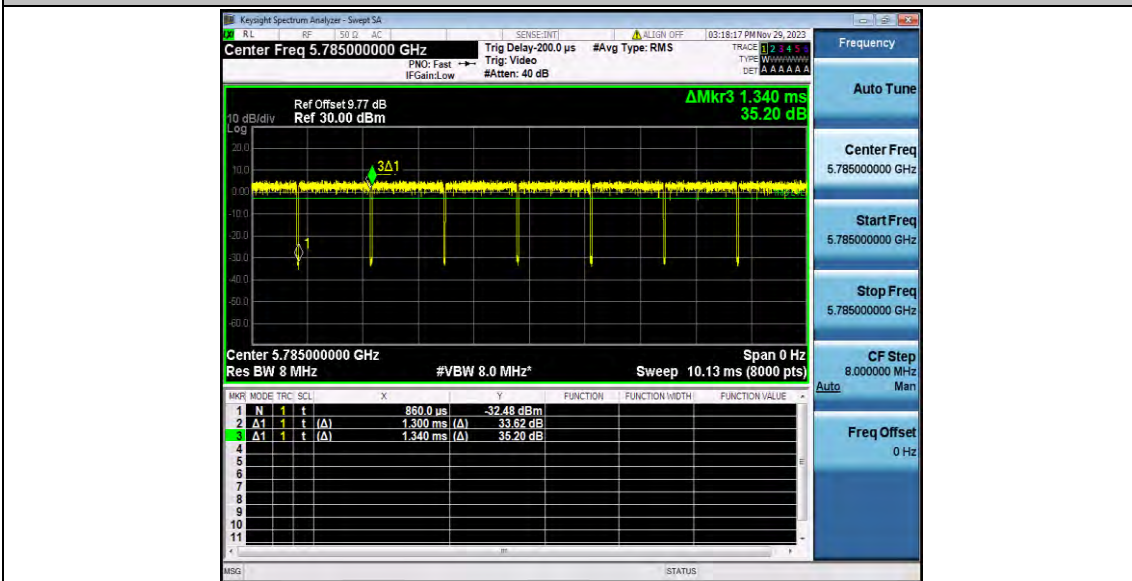
11A_Ant1_5785



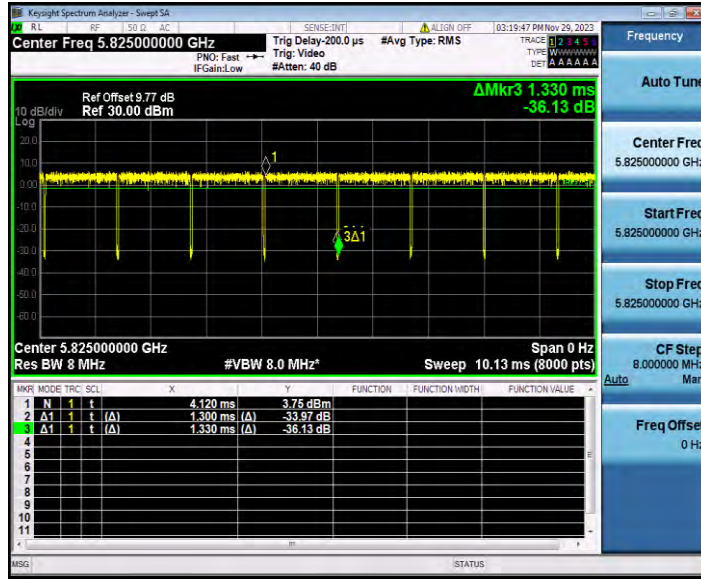
11A_Ant1_5825



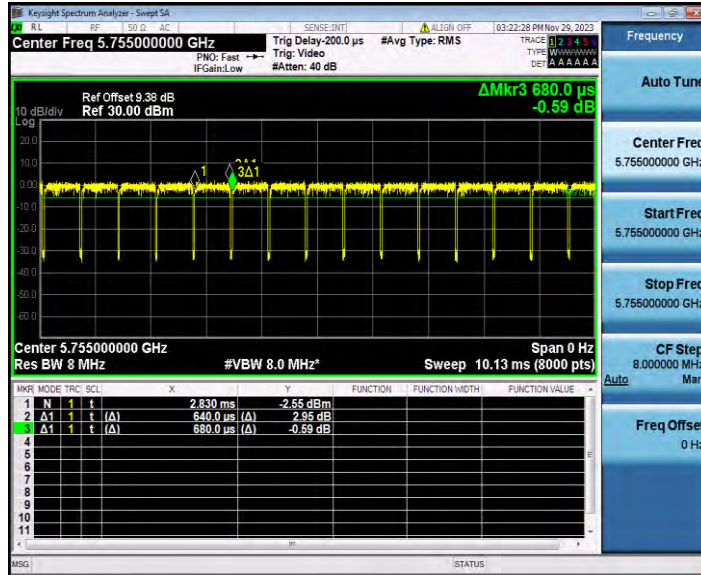
11N20SISO_Ant1_5745



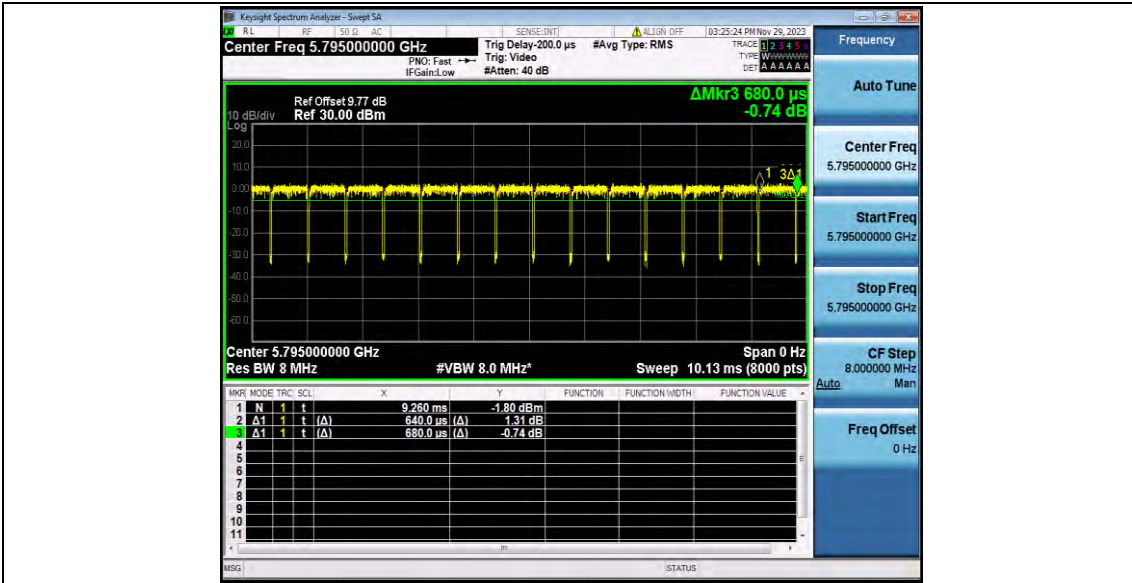
11N20SISO_Ant1_5785



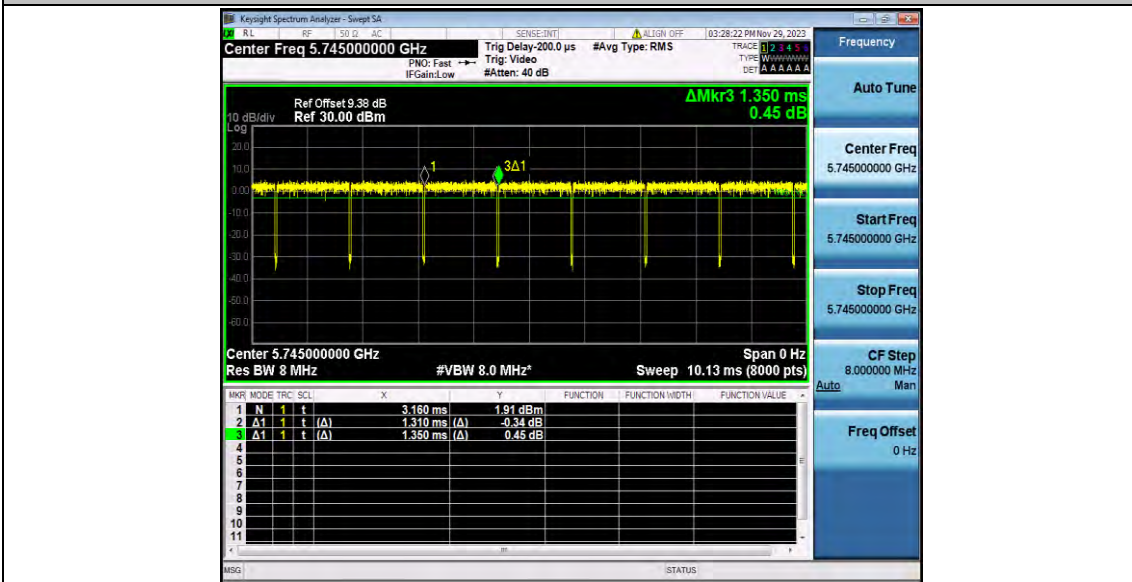
11N20SISO_Ant1_5825



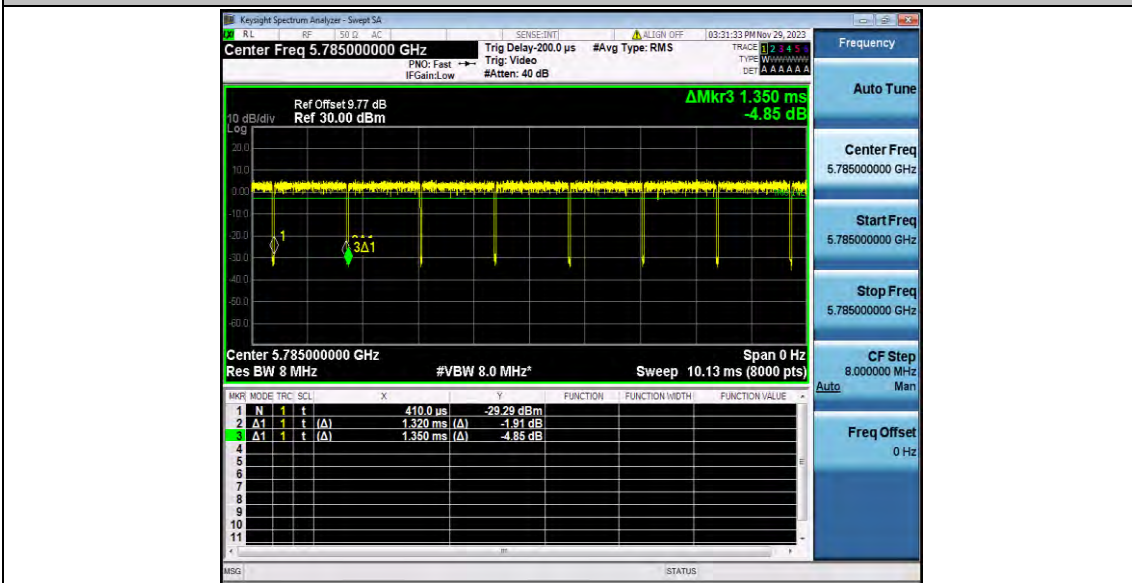
11N40SISO_Ant1_5755



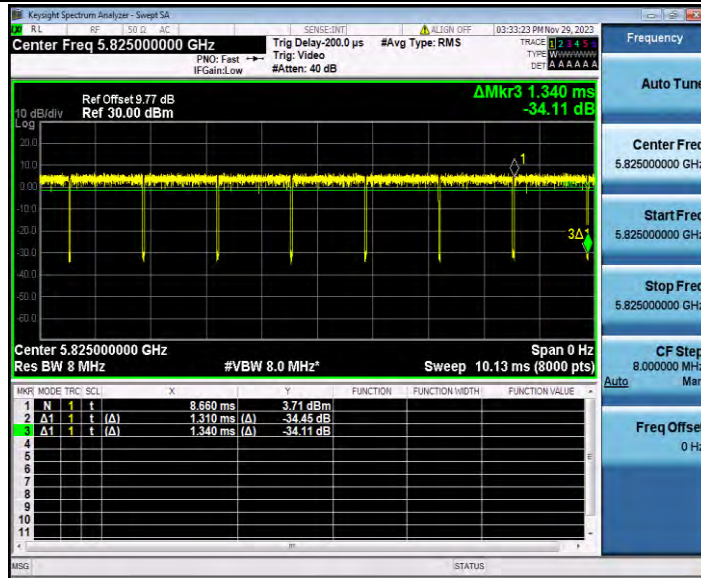
11N40SISO_Ant1_5795



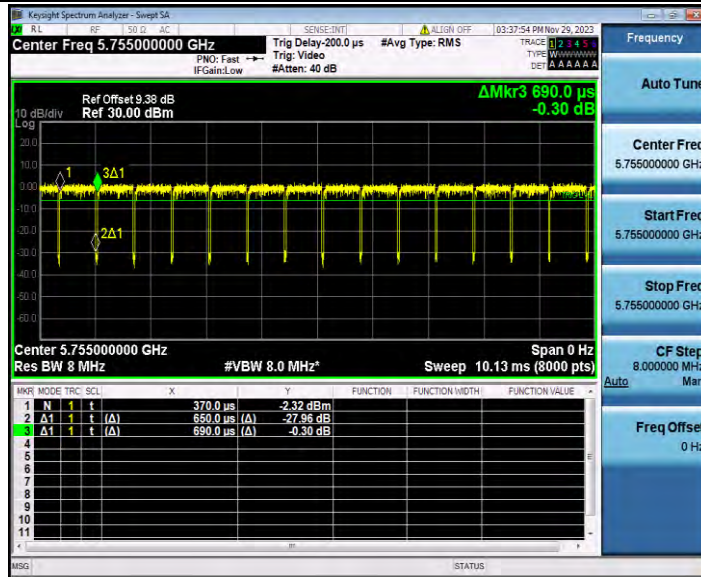
11AC20SISO_Ant1_5745



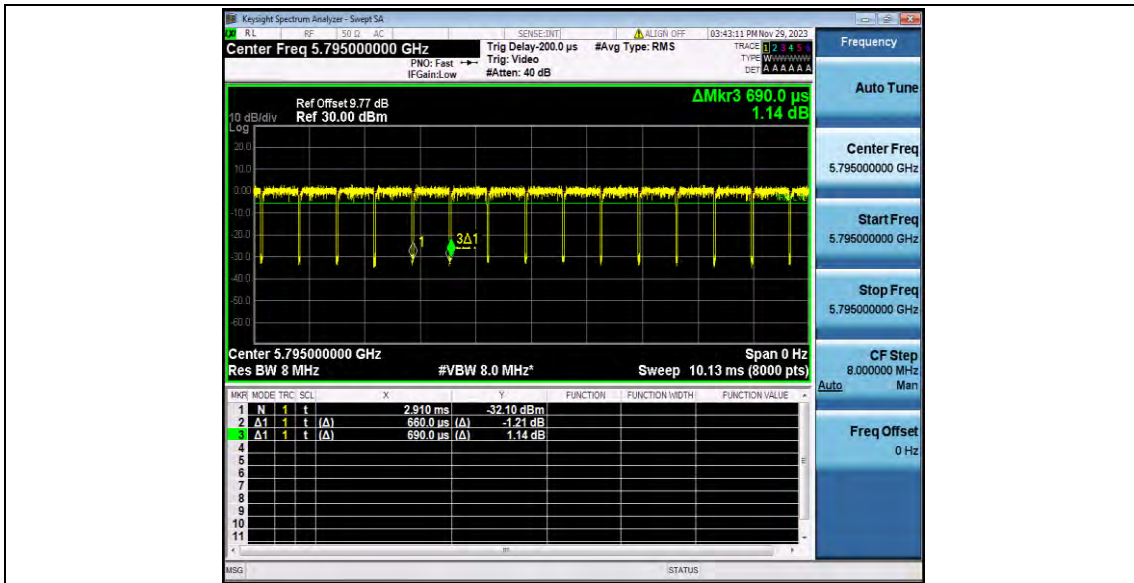
11AC20SISO_Ant1_5785



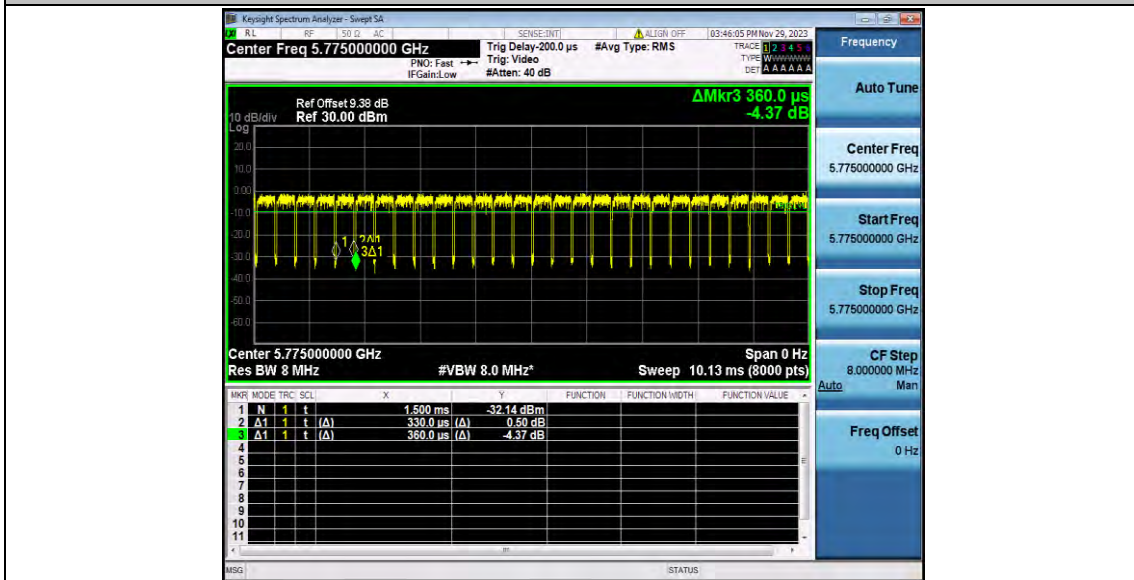
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix G.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	6.69	97.20	0.12	6.81	≤30.00	PASS
		5785	6.66	97.89	0.09	6.75	≤30.00	PASS
		5825	5.88	97.20	0.12	6.00	≤30.00	PASS
11N20SISO	Ant1	5745	6.35	97.74	0.10	6.45	≤30.00	PASS
		5785	6.12	97.01	0.13	6.25	≤30.00	PASS
		5825	6.18	97.74	0.10	6.28	≤30.00	PASS
11N40SISO	Ant1	5755	6.40	94.12	0.26	6.66	≤30.00	PASS
		5795	6.14	94.12	0.26	6.40	≤30.00	PASS
11AC20SIS O	Ant1	5745	6.46	97.04	0.13	6.59	≤30.00	PASS
		5785	6.08	97.78	0.10	6.18	≤30.00	PASS
		5825	6.10	97.76	0.10	6.20	≤30.00	PASS
11AC40SIS O	Ant1	5755	6.41	94.20	0.26	6.67	≤30.00	PASS
		5795	6.17	95.65	0.19	6.36	≤30.00	PASS
11AC80SIS O	Ant1	5775	6.02	91.67	0.38	6.40	≤30.00	PASS

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

Appendix G.5: Maximum power spectral density

Test Result

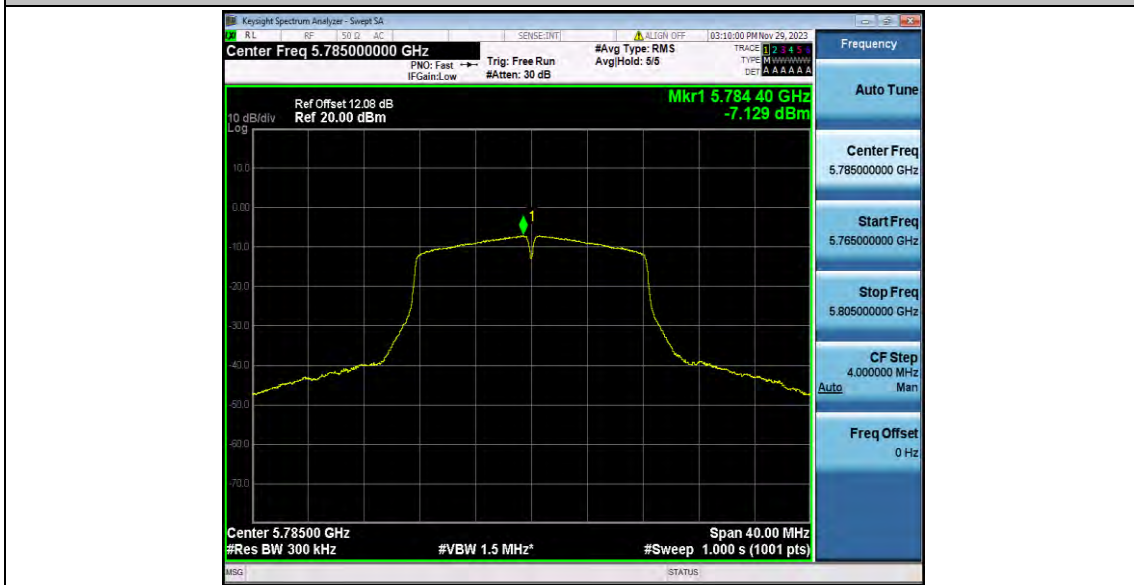
Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-8.19	≤30.00	PASS
		5785	-7.13	≤30.00	PASS
		5825	-7.2	≤30.00	PASS
11N20SISO	Ant1	5745	-8.64	≤30.00	PASS
		5785	-7.83	≤30.00	PASS
		5825	-6.93	≤30.00	PASS
11N40SISO	Ant1	5755	-11.48	≤30.00	PASS
		5795	-10.76	≤30.00	PASS
11AC20SISO	Ant1	5745	-8.4	≤30.00	PASS
		5785	-7.86	≤30.00	PASS
		5825	-6.97	≤30.00	PASS
11AC40SISO	Ant1	5755	-11.43	≤30.00	PASS
		5795	-10.86	≤30.00	PASS
11AC80SISO	Ant1	5775	-14.39	≤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.

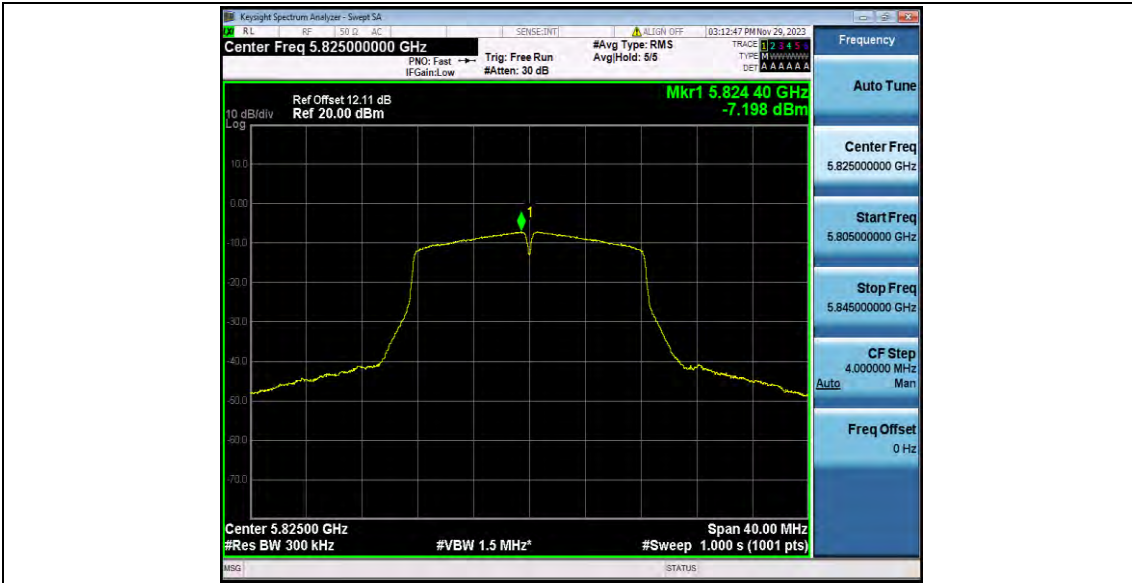
Test Graphs



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



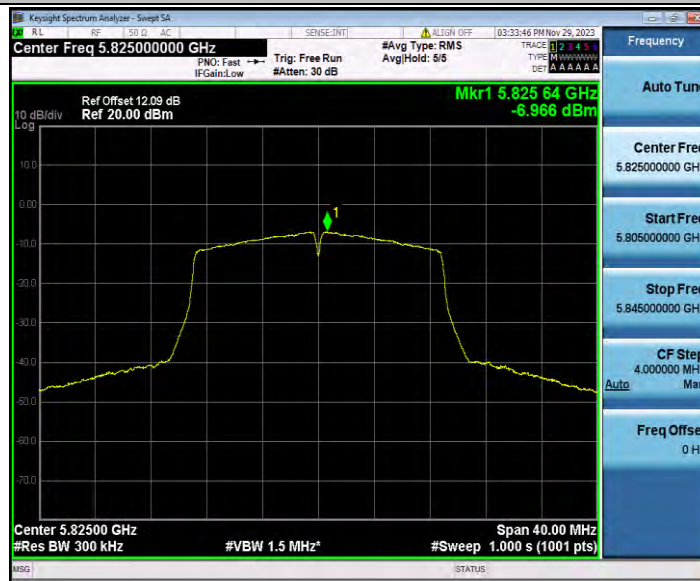
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix G.6: Band edge measurements

Test Result B4

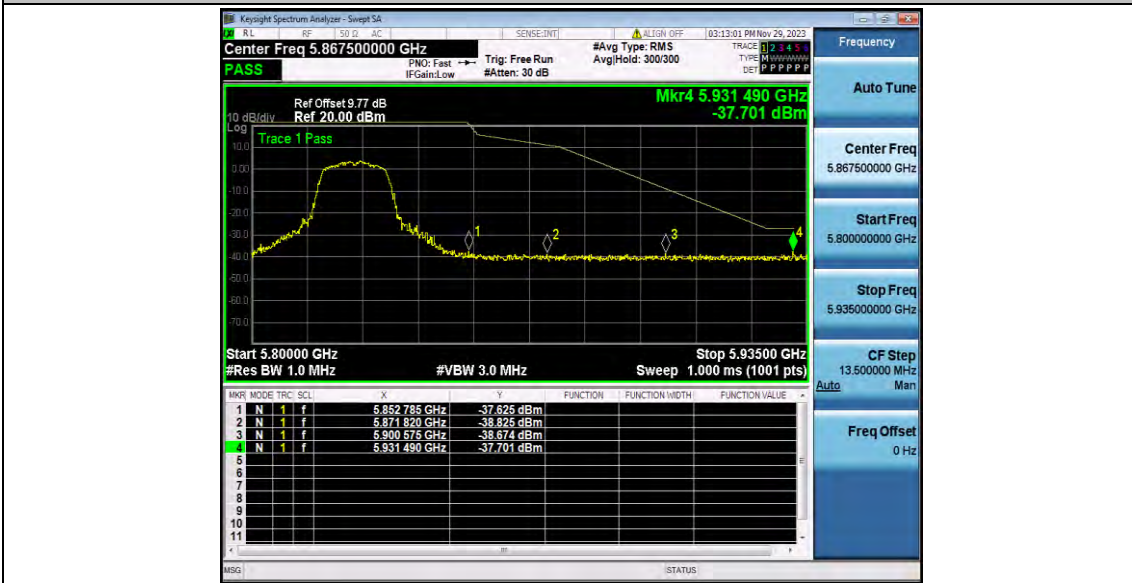
TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-39.36	≤-2.02	PASS
				5700~5720	-35.17	≤15.11	PASS
				5720~5725	-32.28	≤23.42	PASS
				5760~5650	-39.64	≤-27	PASS
		High	5825	5850~5855	-37.63	≤21.95	PASS
				5855~5875	-38.83	≤14.71	PASS
				5875~5925	-38.67	≤-8.07	PASS
5925~5935	-37.7	≤-27	PASS				
11N20SIS O	Ant1	Low	5745	5650~5700	-38.62	≤1.13	PASS
				5700~5720	-34.25	≤15.56	PASS
				5720~5725	-30.05	≤26.30	PASS
				5760~5650	-40.38	≤-27	PASS
		High	5825	5850~5855	-36.72	≤20.10	PASS
				5855~5875	-38.29	≤10.85	PASS
				5875~5925	-38.17	≤-1.88	PASS
5925~5935	-38.78	≤-27	PASS				
11N40SIS O	Ant1	Low	5755	5650~5700	-37.98	≤8.46	PASS
				5700~5720	-29.9	≤15.39	PASS
				5720~5725	-27.48	≤23.43	PASS
				5780~5650	-39.31	≤-27	PASS
		High	5795	5850~5855	-38.5	≤26.19	PASS
				5855~5875	-39.01	≤10.73	PASS
				5875~5925	-38.08	≤4.70	PASS
5925~5935	-38.1	≤-27	PASS				
11AC20SI SO	Ant1	Low	5745	5650~5700	-39.03	≤-1.85	PASS
				5700~5720	-34.77	≤15.11	PASS
				5720~5725	-29.91	≤26.04	PASS
				5760~5650	-39.88	≤-27	PASS
		High	5825	5850~5855	-37.65	≤22.87	PASS
				5855~5875	-38.06	≤10.14	PASS
				5875~5925	-38.37	≤-7.18	PASS
5925~5935	-38.67	≤-27	PASS				
11AC40SI SO	Ant1	Low	5755	5650~5700	-39.13	≤-1.43	PASS
				5700~5720	-32.37	≤15.31	PASS
				5720~5725	-30.11	≤23.74	PASS

				5780~5650	-40.2	≤ -27	PASS
		High	5795	5850~5855	-39.24	≤ 17.16	PASS
				5855~5875	-38.35	≤ 12.90	PASS
				5875~5925	-38.45	≤ -19.47	PASS
				5925~5935	-38.69	≤ -27	PASS
11AC80SI SO	Ant1	Low	5775	5650~5700	-34.79	≤ 2.10	PASS
				5700~5720	-31.6	≤ 15.56	PASS
				5720~5725	-30.97	≤ 25.89	PASS
				5800~5650	-39.85	≤ -27	PASS
		High	5775	5850~5855	-31.87	≤ 18.32	PASS
				5855~5875	-33.27	≤ 10.59	PASS
				5875~5925	-37.88	≤ -23.67	PASS
				5925~5935	-38.65	≤ -27	PASS

Test Graphs B4



11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



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



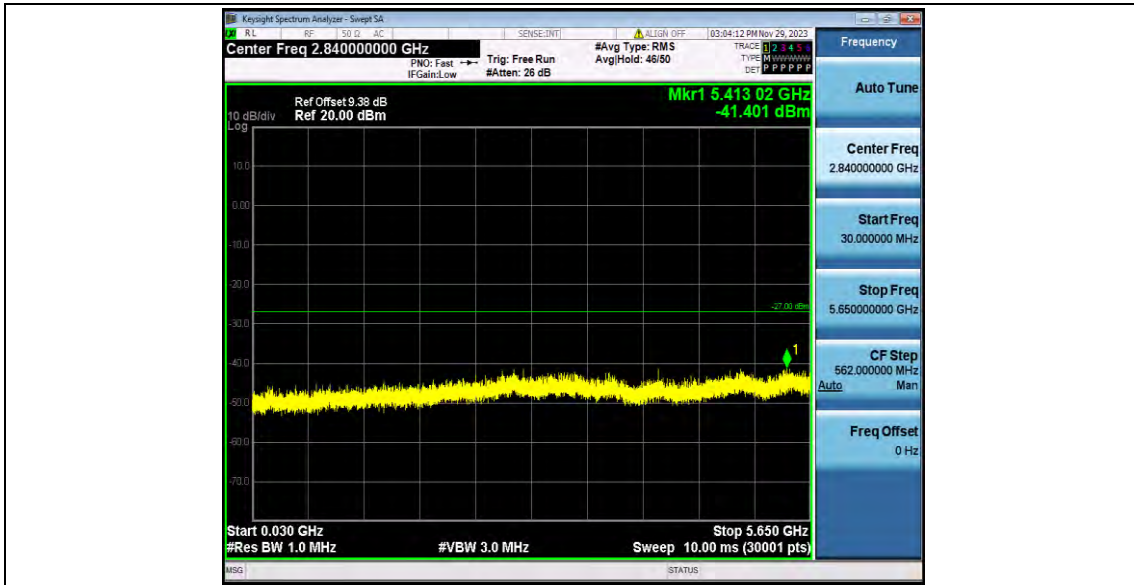
11AC80SISO_Ant1_High_5775

Appendix G.7: Conducted Spurious Emission

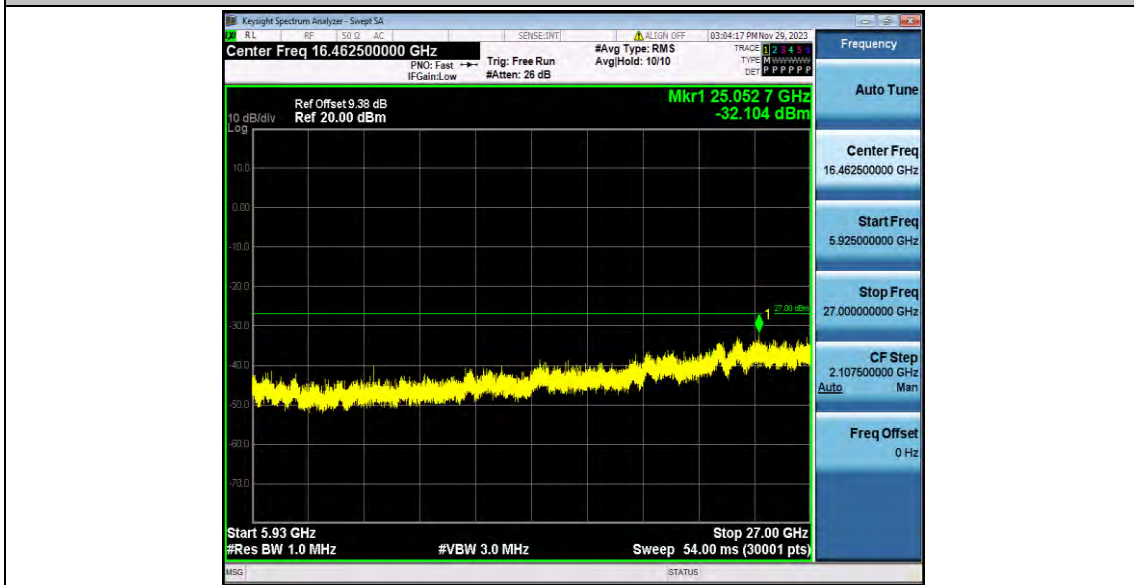
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5413.02	-41.4	≤-27	PASS
			5925~40000	25052.67	-32.1	≤-27	PASS
		5785	30~5650	5453.67	-40.19	≤-27	PASS
			5925~40000	24249.01	-32.45	≤-27	PASS
		5825	30~5650	4971.48	-40.51	≤-27	PASS
			5925~40000	24340.34	-32.26	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5502.76	-40.62	≤-27	PASS
			5925~40000	24218.8	-32.61	≤-27	PASS
		5785	30~5650	2671.21	-41.05	≤-27	PASS
			5925~40000	24267.98	-32.58	≤-27	PASS
		5825	30~5650	5438.31	-40.77	≤-27	PASS
			5925~40000	26879.87	-31.72	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5016.25	-40.48	≤-27	PASS
			5925~40000	24265.17	-30.49	≤-27	PASS
		5795	30~5650	2634.87	-40.79	≤-27	PASS
			5925~40000	23560.56	-32.36	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	4924.65	-40.99	≤-27	PASS
			5925~40000	23524.73	-32.21	≤-27	PASS
		5785	30~5650	2668.22	-40.61	≤-27	PASS
			5925~40000	26555.32	-31.48	≤-27	PASS
		5825	30~5650	5446.74	-39.08	≤-27	PASS
			5925~40000	26756.94	-32.18	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5520.37	-40.92	≤-27	PASS
			5925~40000	24190	-33.05	≤-27	PASS
		5795	30~5650	5508.19	-39.98	≤-27	PASS
			5925~40000	26669.83	-32.13	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5450.49	-41.32	≤-27	PASS
			5925~40000	24742.87	-32.47	≤-27	PASS

Test Graphs



11A_Ant1_5745_30~5650



11A_Ant1_5745_5925~40000



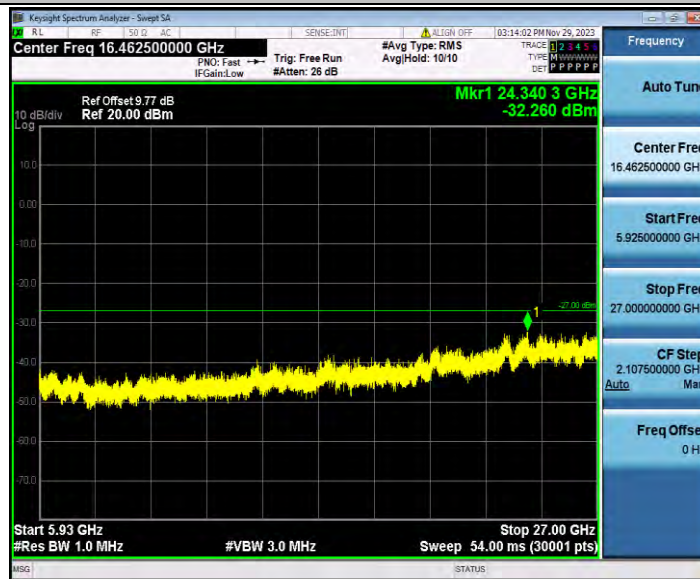
11A_Ant1_5785_30~5650



11A_Ant1_5785_5925~40000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~40000



11N20SISO_Ant1_5745_30~5650



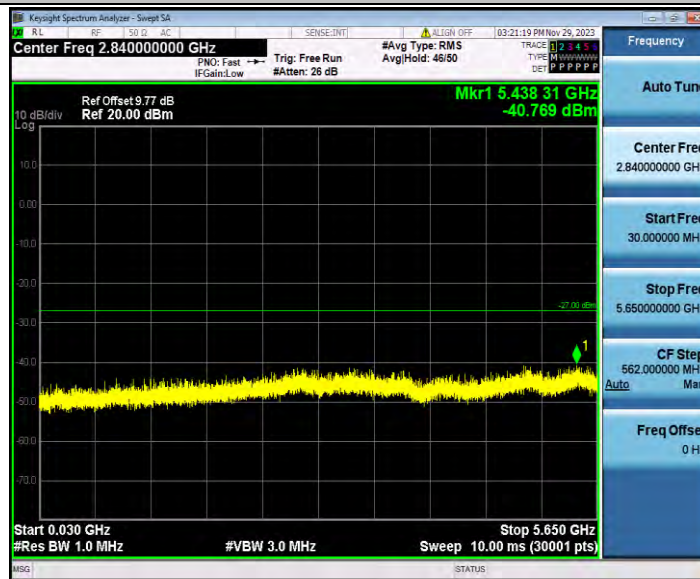
11N20SISO_Ant1_5745_5925-40000



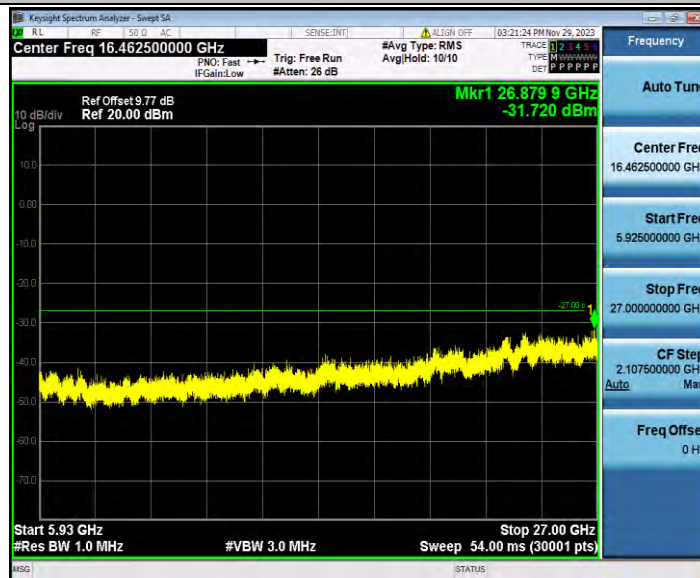
11N20SISO_Ant1_5785_30-5650



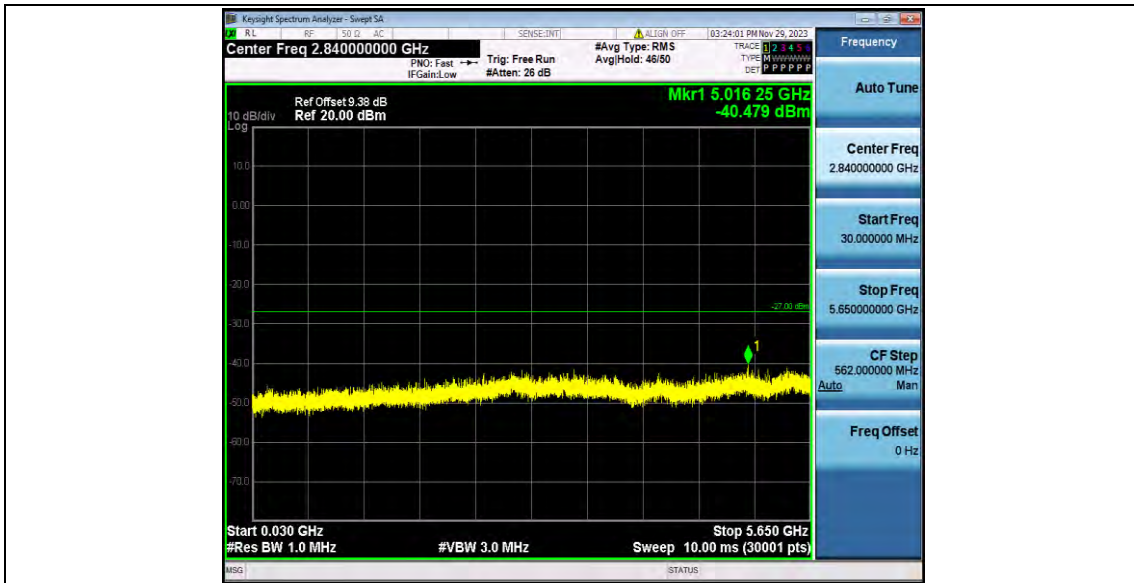
11N20SISO_Ant1_5785_5925~40000



11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~40000



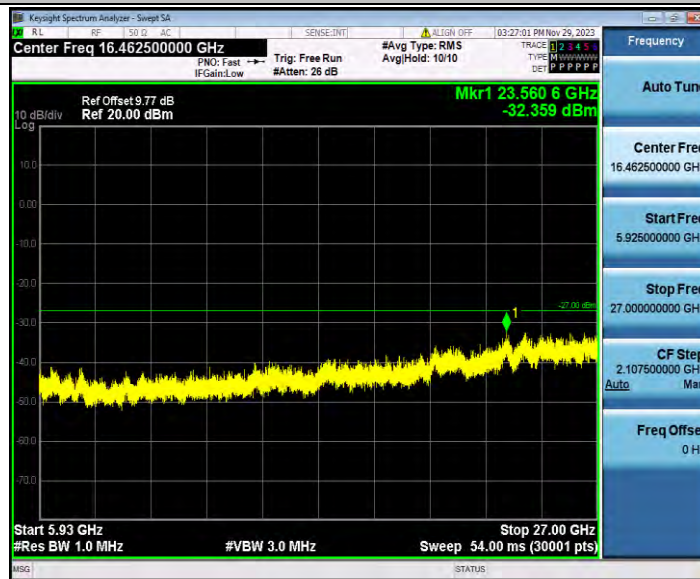
11N40SISO_Ant1_5755_30~5650



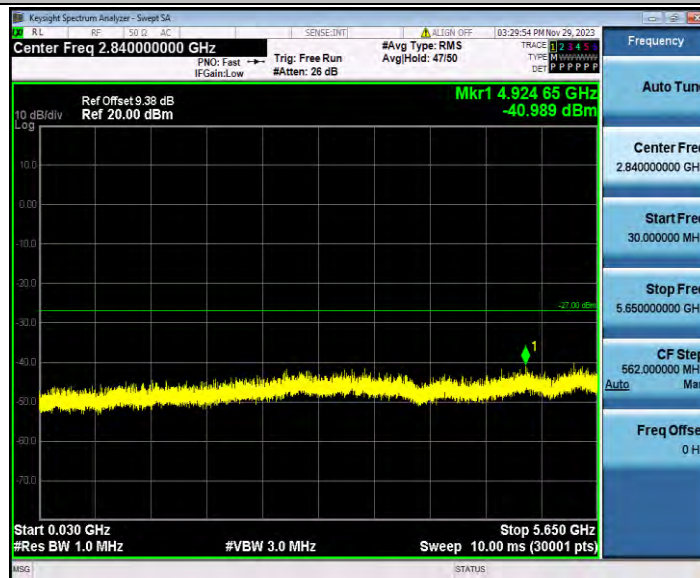
11N40SISO_Ant1_5755_5925~40000



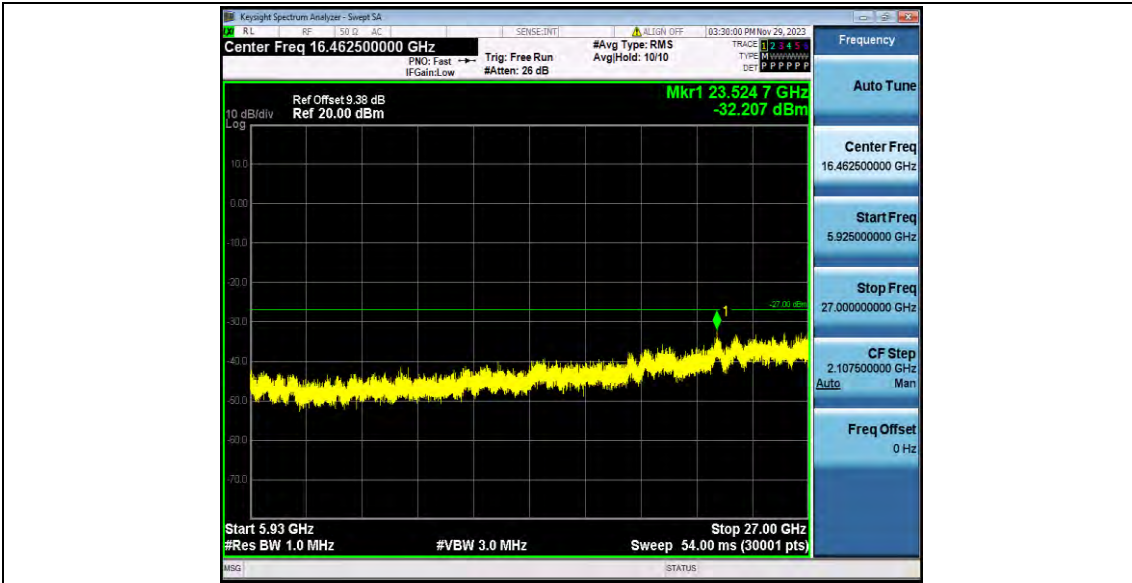
11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~40000



11AC20SISO_Ant1_5745_30~5650



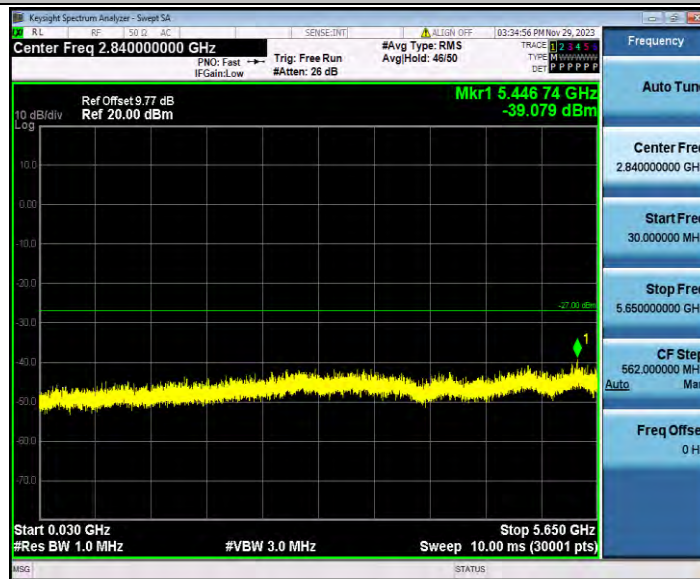
11AC20SISO_Ant1_5745_5925~4000



11AC20SISO_Ant1_5785_30~5650



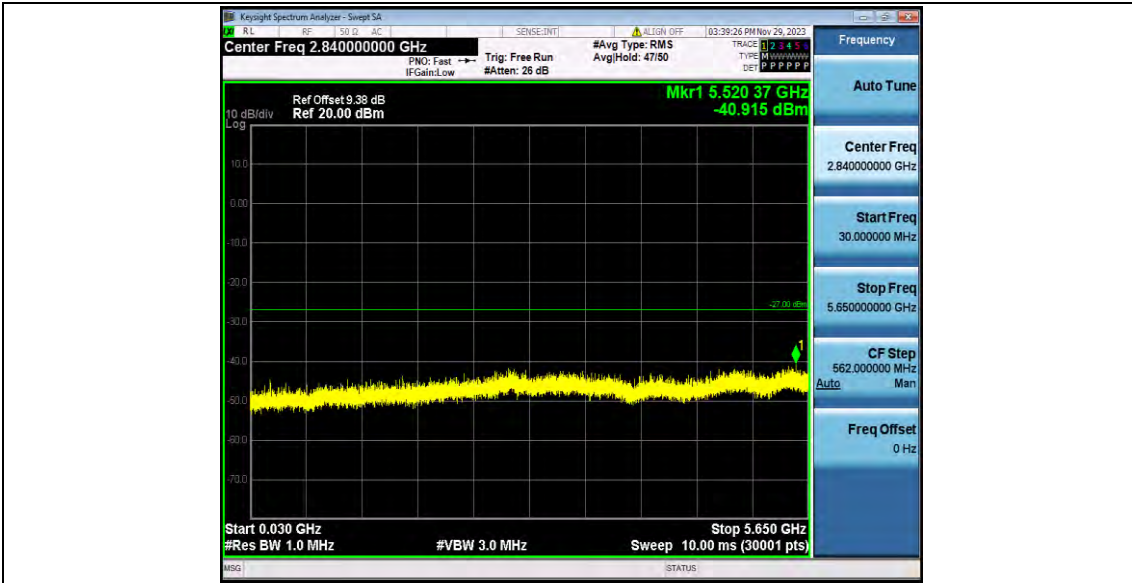
11AC20SISO_Ant1_5785_5925~40000



11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~40000



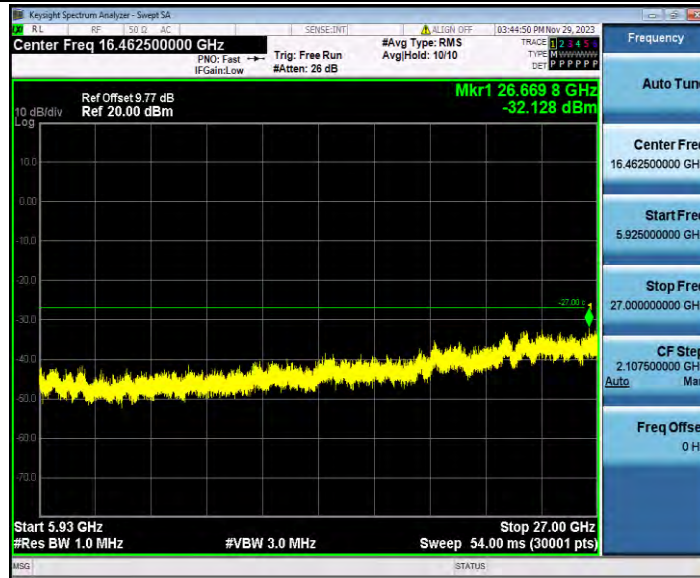
11AC40SISO_Ant1_5755_30~5650



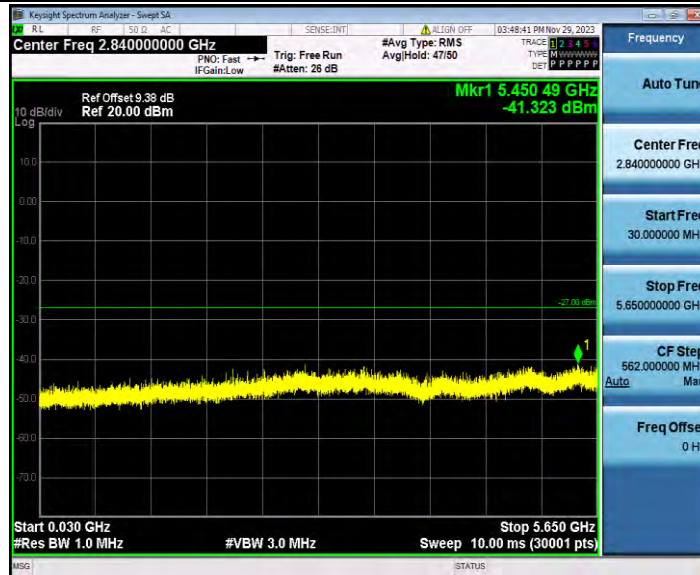
11AC40SISO_Ant1_5755_5925~40000



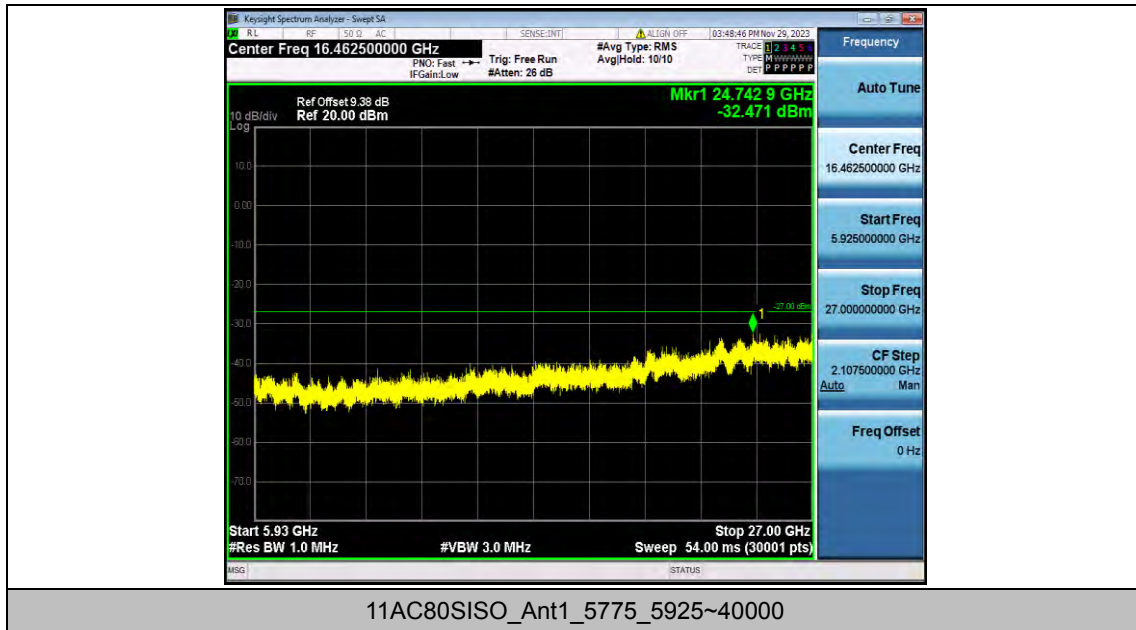
11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



Appendix G.8: Emissions in Restricted Bands

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-40.74 5	≤-27.00	---	---	PASS
				Peak	5700.000	-38.99	≤10.00	---	---	PASS
				Peak	5720.000	-36.63	≤15.60	---	---	PASS
				Peak	5725.000	-30.78	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.35 8	≤15.60	---	---	PASS
				Peak	5855.000	-38.81	≤27.00	---	---	PASS
				Peak	5875.000	-38.85	≤15.60	---	---	PASS
				Peak	5925.000	-39.74	≤10.00	---	---	PASS
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-39.99 4	≤-27.00	---	---	PASS
				Peak	5700.000	-41.97	≤10.00	---	---	PASS
				Peak	5720.000	-36.34	≤15.60	---	---	PASS
				Peak	5725.000	-33.19	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-34.10 1	≤15.60	---	---	PASS
				Peak	5855.000	-38.68	≤27.00	---	---	PASS
				Peak	5875.000	-39.37	≤15.60	---	---	PASS
				Peak	5925.000	-38.28	≤10.00	---	---	PASS
11N40SIS O	Ant1	Low	5755	Peak	5650.000	-40.56 1	≤-27.00	---	---	PASS
				Peak	5700.000	-37.97	≤10.00	---	---	PASS
				Peak	5720.000	-33.04	≤15.60	---	---	PASS
				Peak	5725.000	-27.39	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-38.81	≤15.60	---	---	PASS
				Peak	5855.000	-37.98	≤27.00	---	---	PASS
				Peak	5875.000	-40.35	≤15.60	---	---	PASS
				Peak	5925.000	-37.68	≤10.00	---	---	PASS
11AC20SI SO	Ant1	Low	5745	Peak	5650.000	-41.04 6	≤-27.00	---	---	PASS
				Peak	5700.000	-40.53	≤10.00	---	---	PASS
				Peak	5720.000	-33.66	≤15.60	---	---	PASS
				Peak	5725.000	-33.05	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-35.92 7	≤15.60	---	---	PASS

				Peak	5855.000	-38.81	≤ 27.00	---	---	PASS
				Peak	5875.000	-39.64	≤ 15.60	---	---	PASS
				Peak	5925.000	-39.84	≤ 10.00	---	---	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-41.20 9	≤ -27.00	---	---	PASS
				Peak	5700.000	-39.02	≤ 10.00	---	---	PASS
				Peak	5720.000	-32.18	≤ 15.60	---	---	PASS
				Peak	5725.000	-29.82	≤ 27.00	---	---	PASS
		High	5795	Peak	5850.000	-39.24 4	≤ 15.60	---	---	PASS
				Peak	5855.000	-39.77	≤ 27.00	---	---	PASS
				Peak	5875.000	-39.86	≤ 15.60	---	---	PASS
				Peak	5925.000	-38.39	≤ 10.00	---	---	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-39.66 5	≤ -27.00	---	---	PASS
				Peak	5700.000	-35.97	≤ 10.00	---	---	PASS
				Peak	5720.000	-31.62	≤ 15.60	---	---	PASS
				Peak	5725.000	-30.7	≤ 27.00	---	---	PASS
		High	5775	Peak	5850.000	-34.21 6	≤ 15.60	---	---	PASS
				Peak	5855.000	-33.63	≤ 27.00	---	---	PASS
				Peak	5875.000	-37.73	≤ 15.60	---	---	PASS
				Peak	5925.000	-40.51	≤ 10.00	---	---	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



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



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak