

Case No. : <u>GTS20220803009-1-41</u>
Ambient Condition: <u>22</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.7.7</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	18.460	5735.774	5754.234	---	---
		5785	18.526	5775.766	5794.292	---	---
		5825	18.498	5815.862	5834.360	---	---
11N20SISO	Ant1	5745	18.518	5735.751	5754.269	---	---
		5785	18.495	5775.768	5794.263	---	---
		5825	18.471	5815.858	5834.329	---	---
11N40SISO	Ant1	5755	36.612	5736.716	5773.328	---	---
		5795	37.037	5776.712	5813.749	---	---
11AC20SISO	Ant1	5745	18.586	5735.733	5754.319	---	---
		5785	18.631	5775.760	5794.391	---	---
		5825	18.790	5815.762	5834.552	---	---
11AC40SISO	Ant1	5755	36.926	5736.725	5773.651	---	---
		5795	36.978	5776.680	5813.658	---	---
11AC80SISO	Ant1	5775	75.999	5737.385	5813.384	---	---

Test Graphs



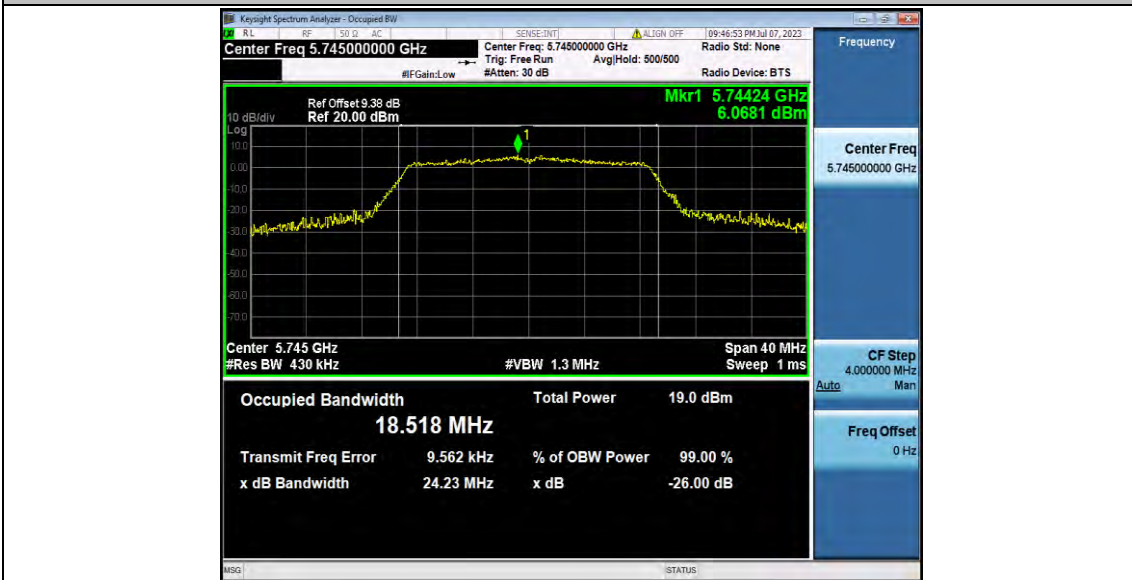
11A_Ant1_5745



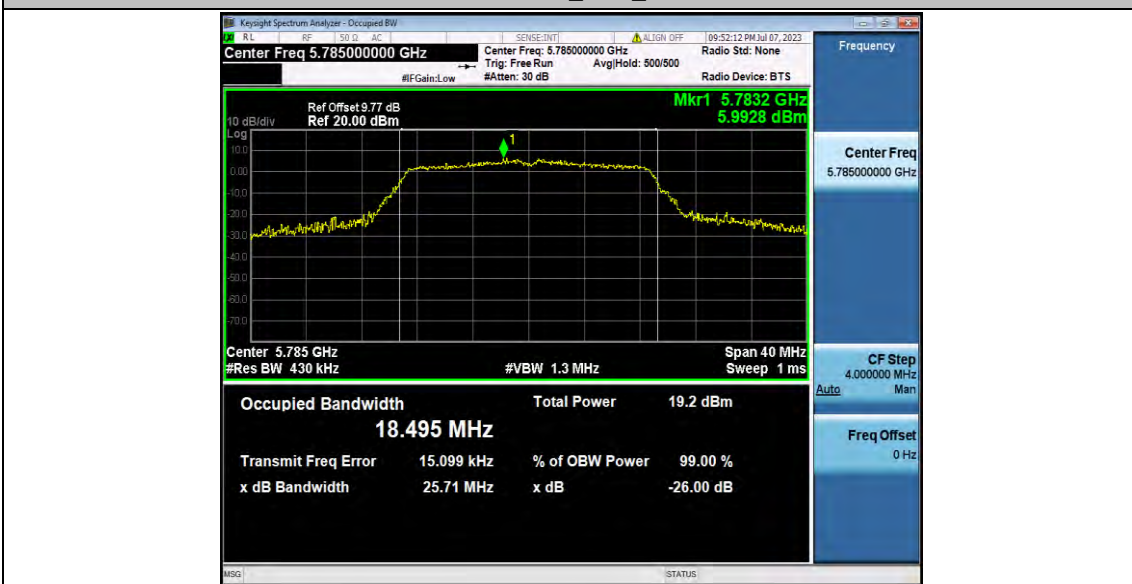
11A_Ant1_5785



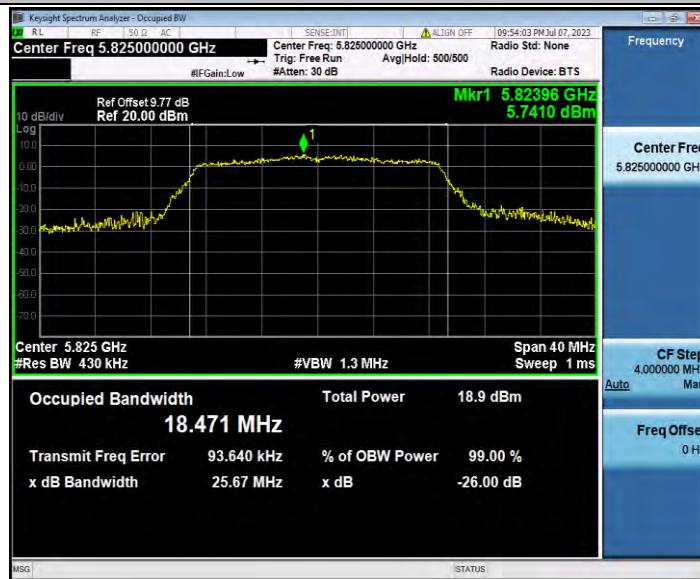
11A_Ant1_5825



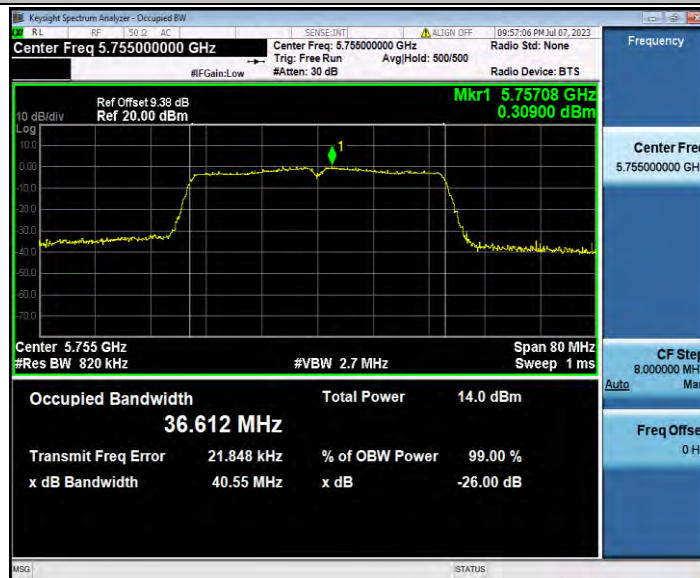
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



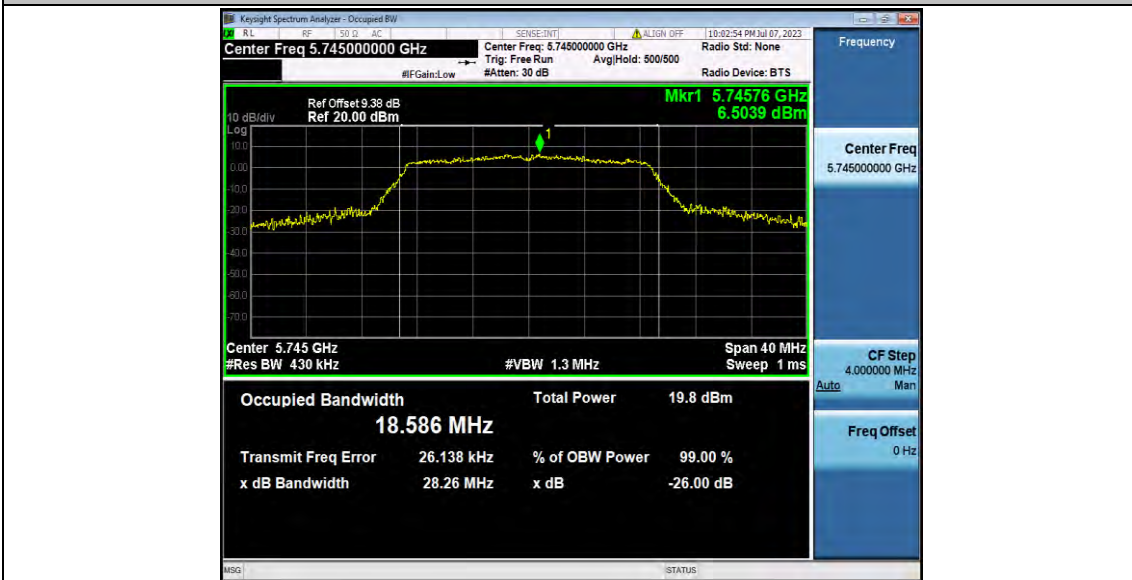
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



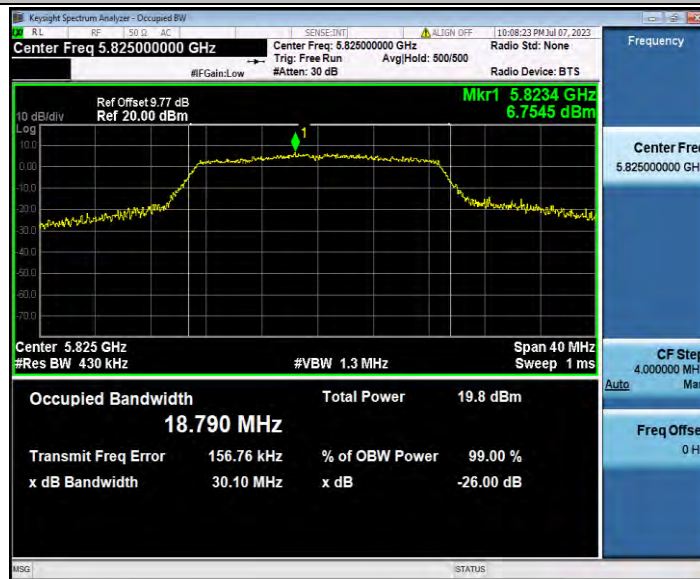
11N40SISO_Ant1_5795



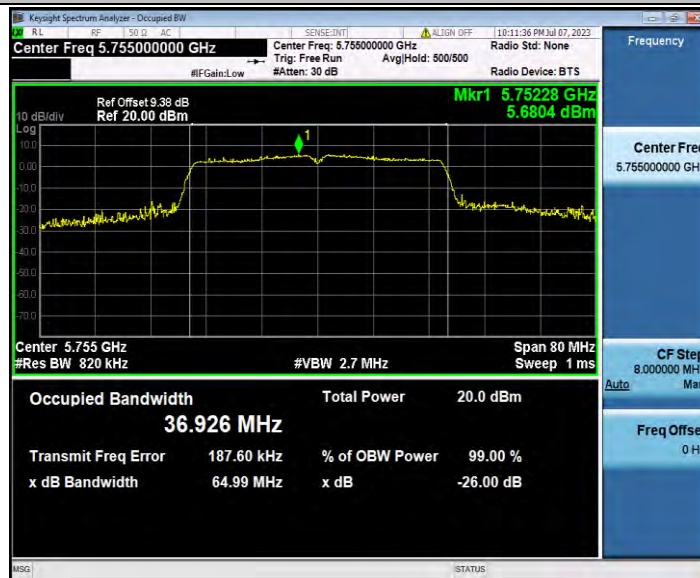
11AC20SISO_Ant1_5745



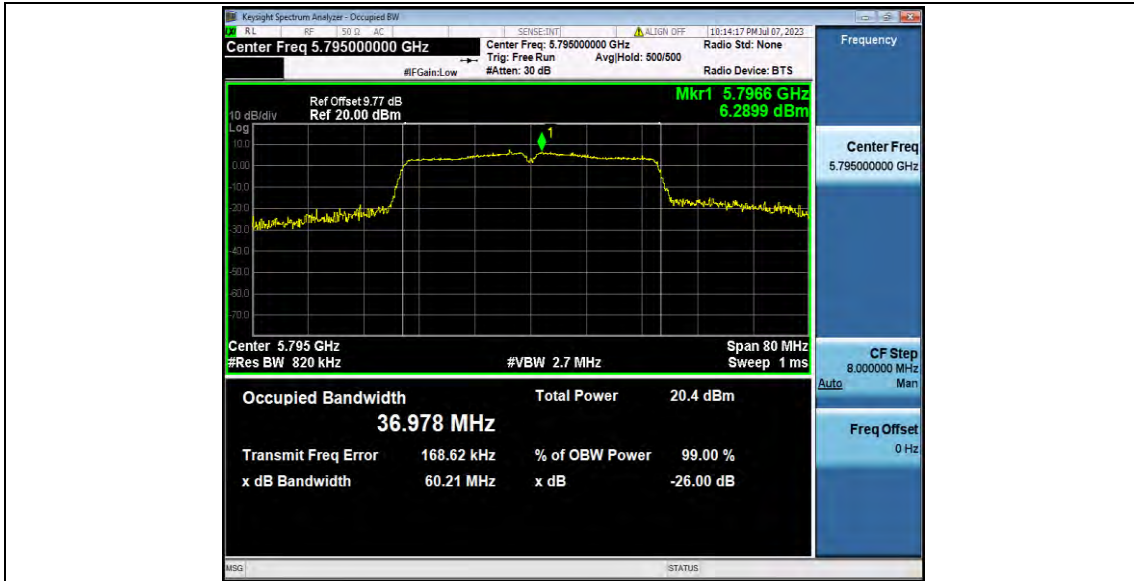
11AC20SISO_Ant1_5785



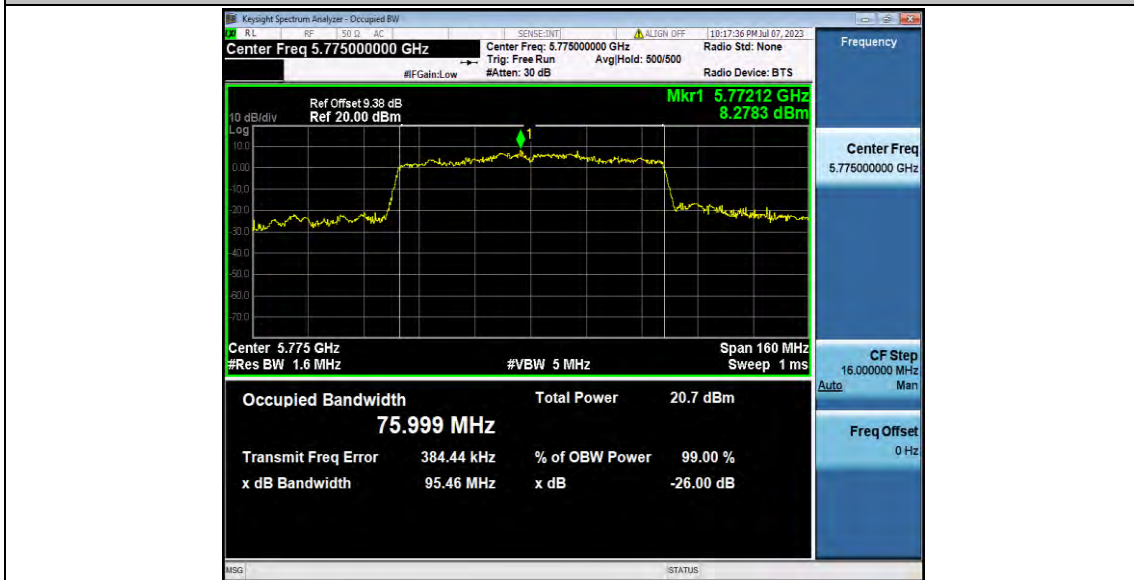
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix G.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	17.080	5736.440	5753.520	0.5	PASS
		5785	17.280	5776.480	5793.760	0.5	PASS
		5825	17.280	5816.480	5833.760	0.5	PASS
11N20SISO	Ant1	5745	17.040	5736.480	5753.520	0.5	PASS
		5785	16.920	5776.480	5793.400	0.5	PASS
		5825	16.640	5817.120	5833.760	0.5	PASS
11N40SISO	Ant1	5755	36.080	5737.080	5773.160	0.5	PASS
		5795	35.440	5777.400	5812.840	0.5	PASS
11AC20SISO	Ant1	5745	17.280	5736.200	5753.480	0.5	PASS
		5785	17.400	5776.360	5793.760	0.5	PASS
		5825	17.000	5816.480	5833.480	0.5	PASS
11AC40SISO	Ant1	5755	35.840	5737.240	5773.080	0.5	PASS
		5795	35.520	5777.400	5812.920	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

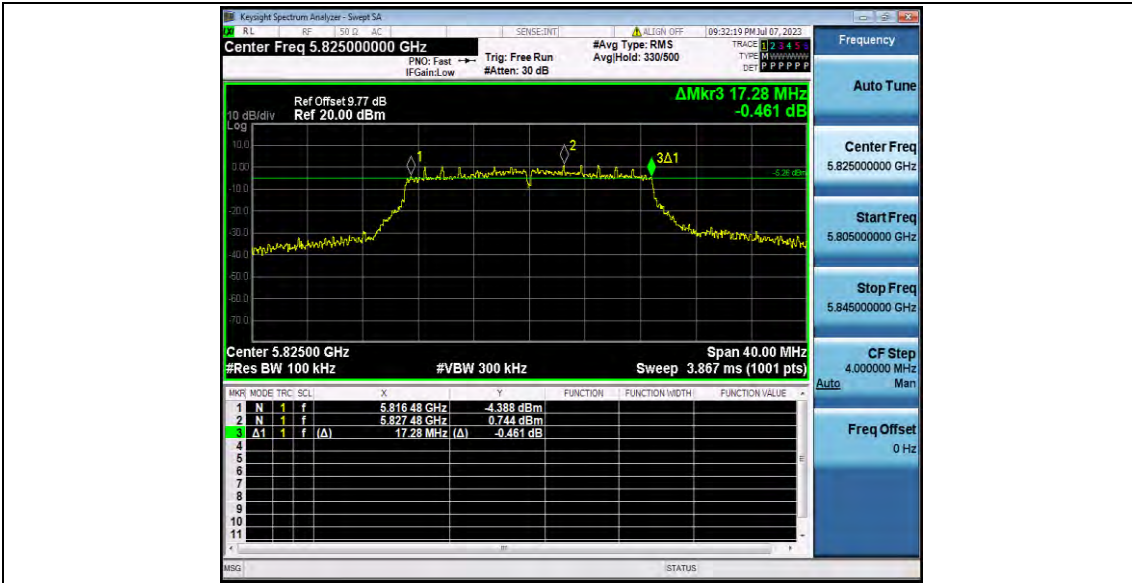
Test Graphs B4



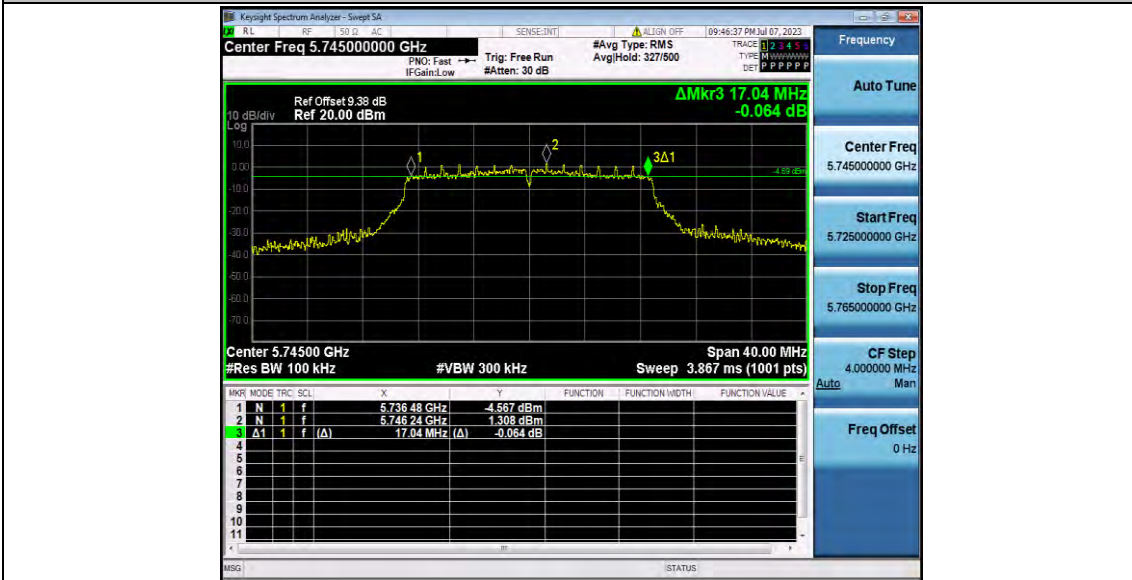
11A_Ant1_5745



11A_Ant1_5785



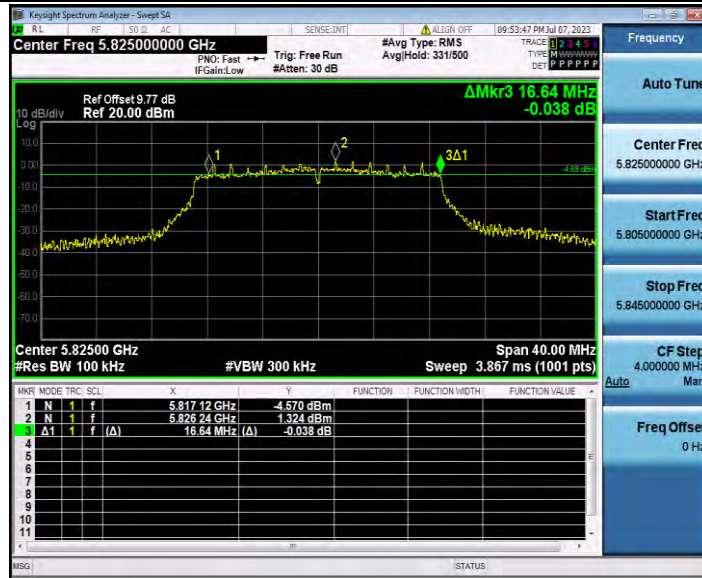
11A_Ant1_5825



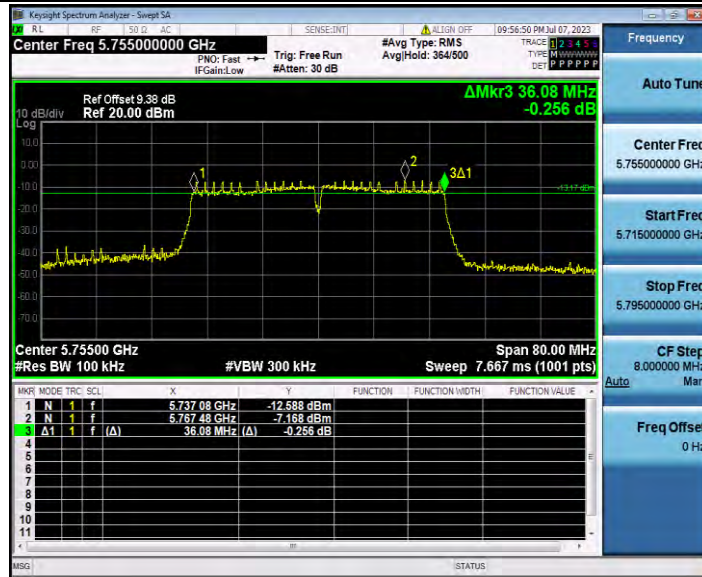
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



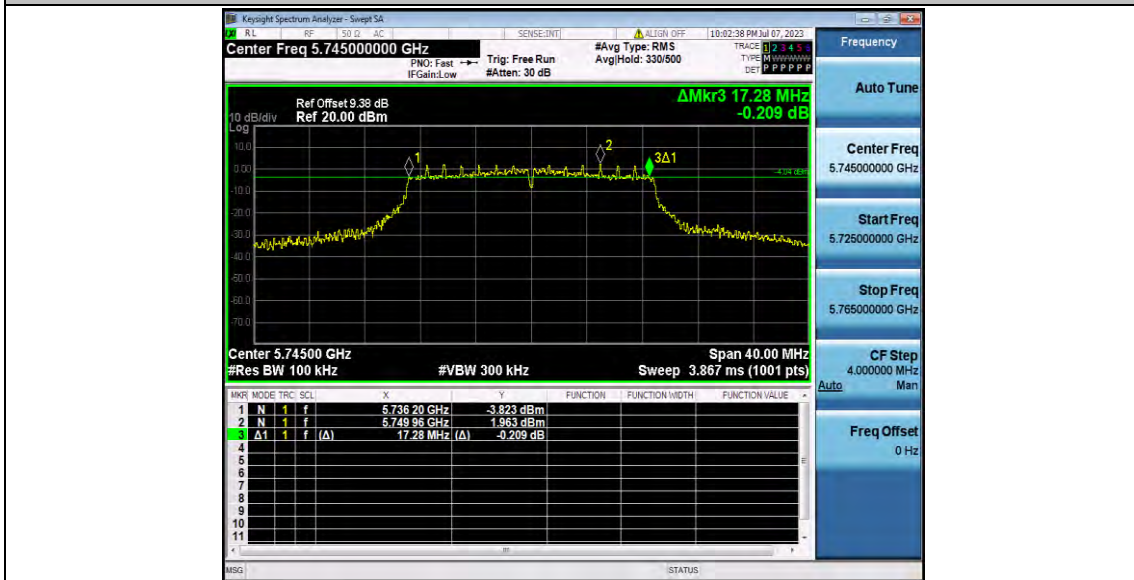
11N20SISO_Ant1_5825



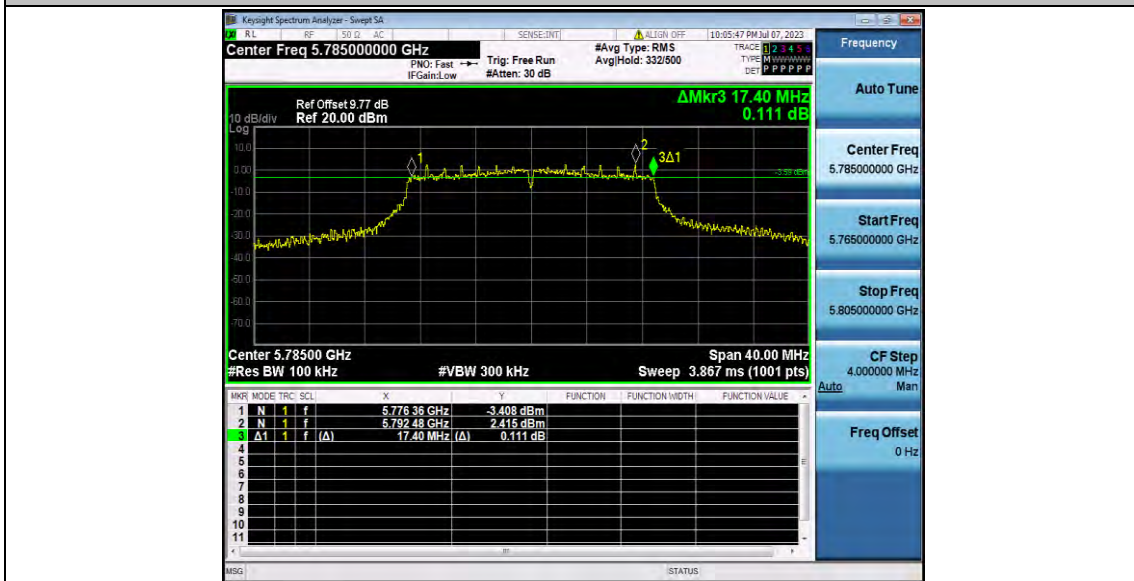
11N40SISO_Ant1_5755



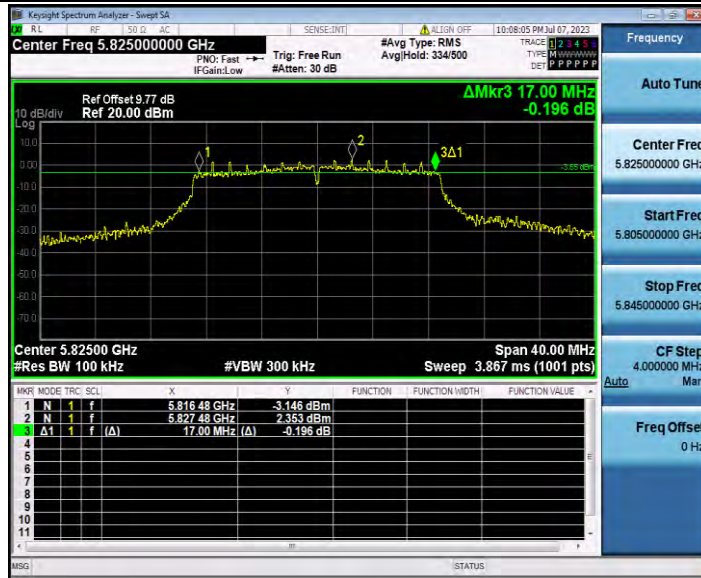
11N40SISO_Ant1_5795



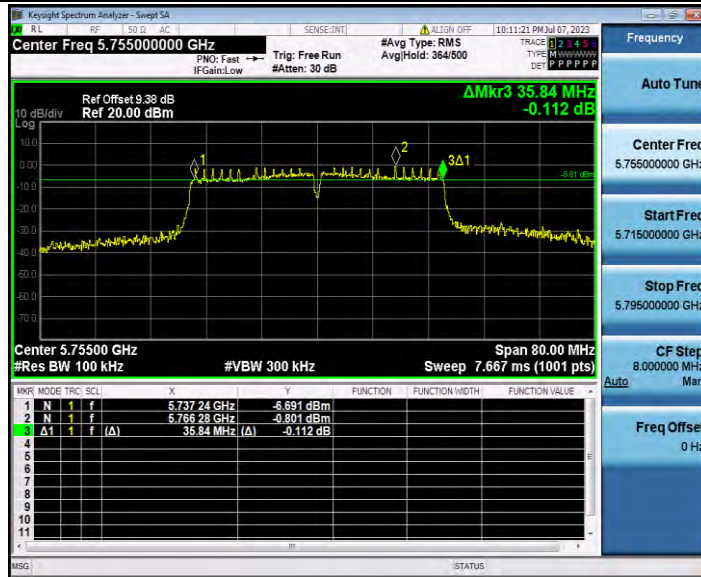
11AC20SISO_Ant1_5745



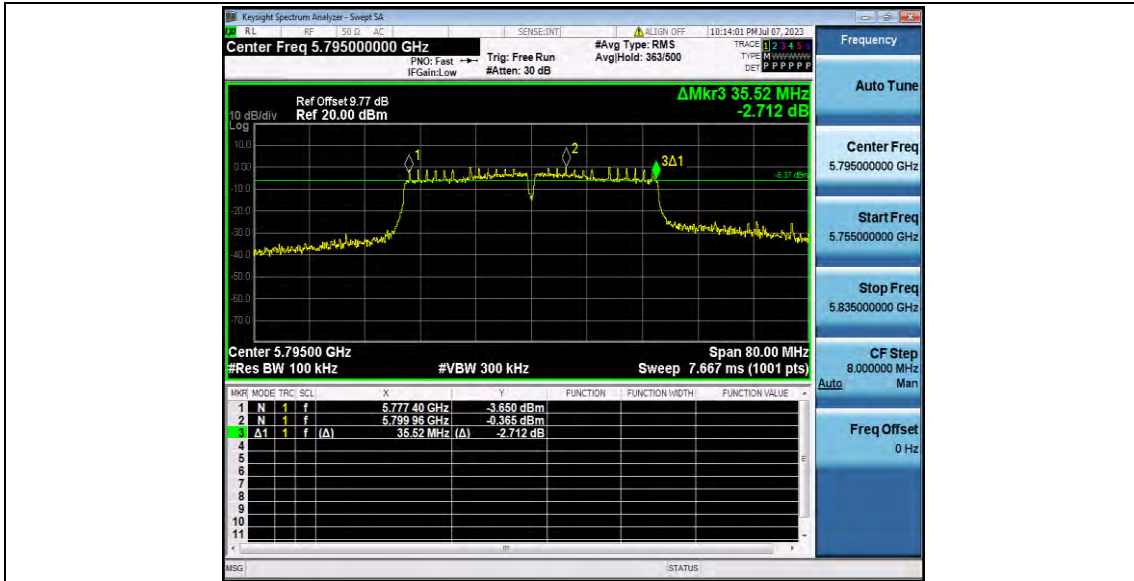
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



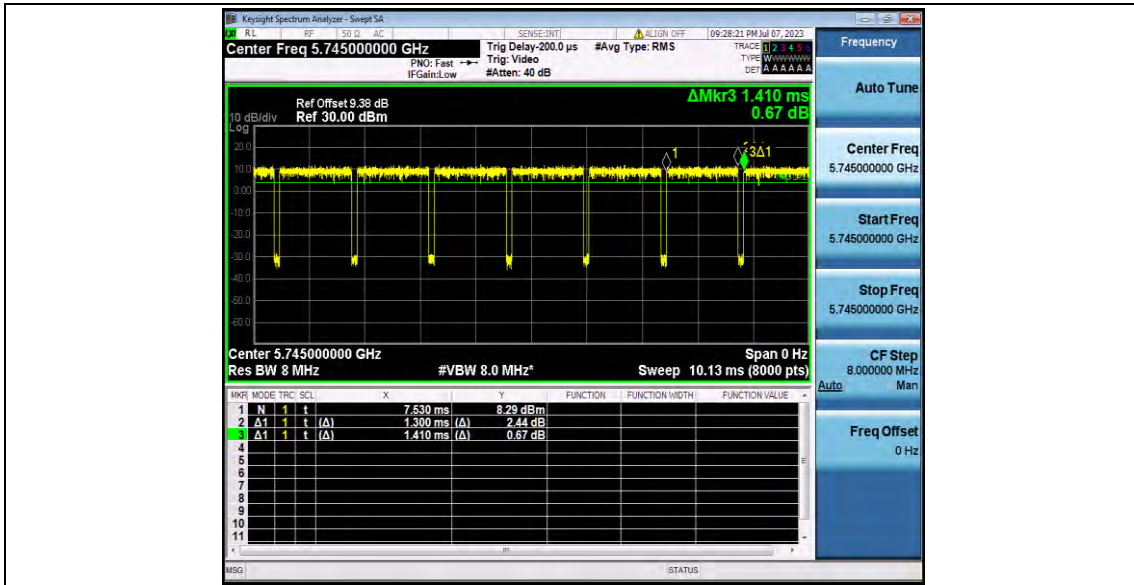
11AC80SISO_Ant1_5775

Appendix G.3: Duty Cycle

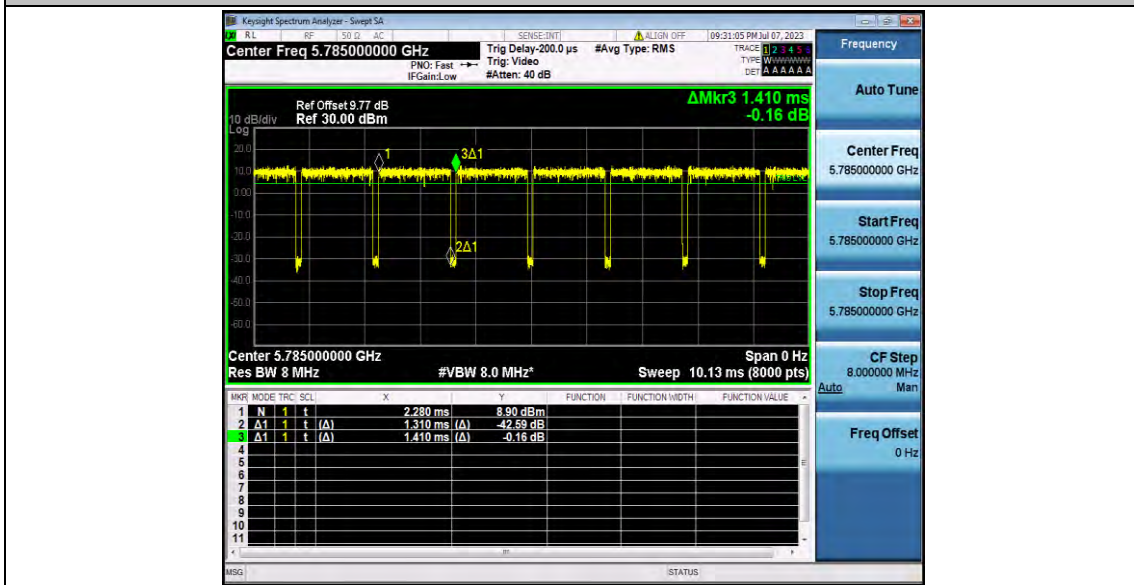
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	1.30	1.41	92.20
		5785	1.31	1.41	92.91
		5825	1.31	1.41	92.91
11N20SISO	Ant1	5745	1.31	1.41	92.91
		5785	1.30	1.41	92.20
		5825	1.31	1.41	92.91
11N40SISO	Ant1	5755	0.65	0.75	86.67
		5795	0.65	0.75	86.67
11AC20SISO	Ant1	5745	1.31	1.41	92.91
		5785	1.31	1.41	92.91
		5825	1.31	1.41	92.91
11AC40SISO	Ant1	5755	0.65	0.75	86.67
		5795	0.65	0.75	86.67
11AC80SISO	Ant1	5775	0.06	0.16	37.50

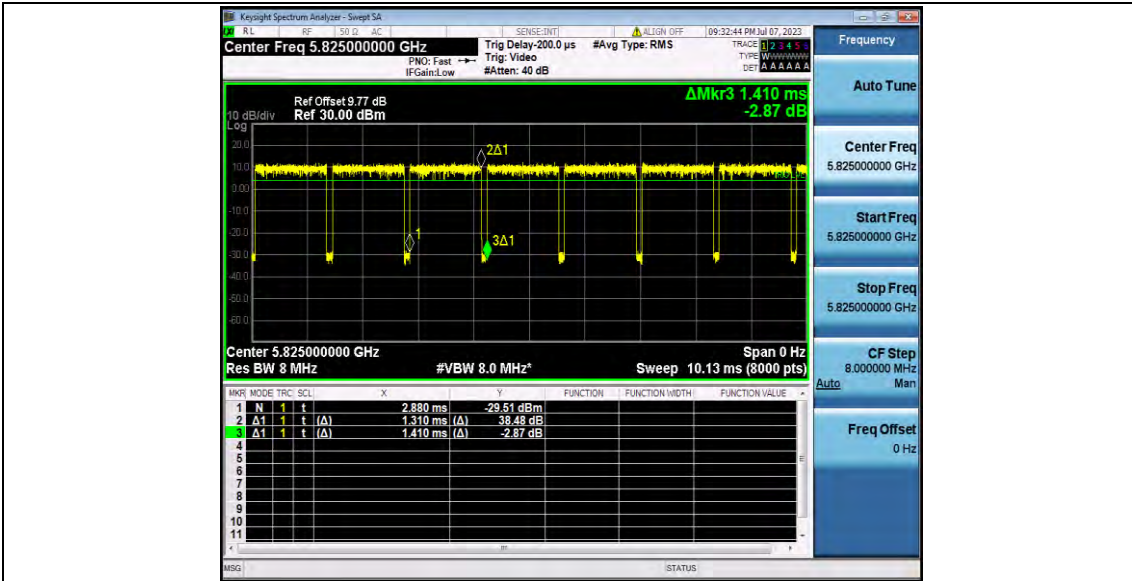
Test Graphs



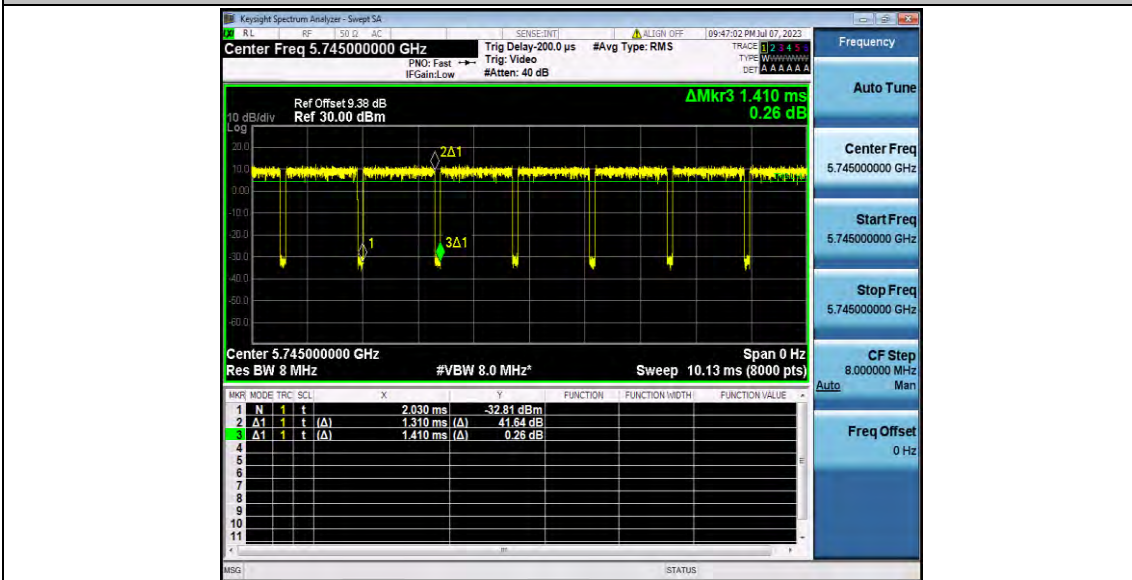
11A_Ant1_5745



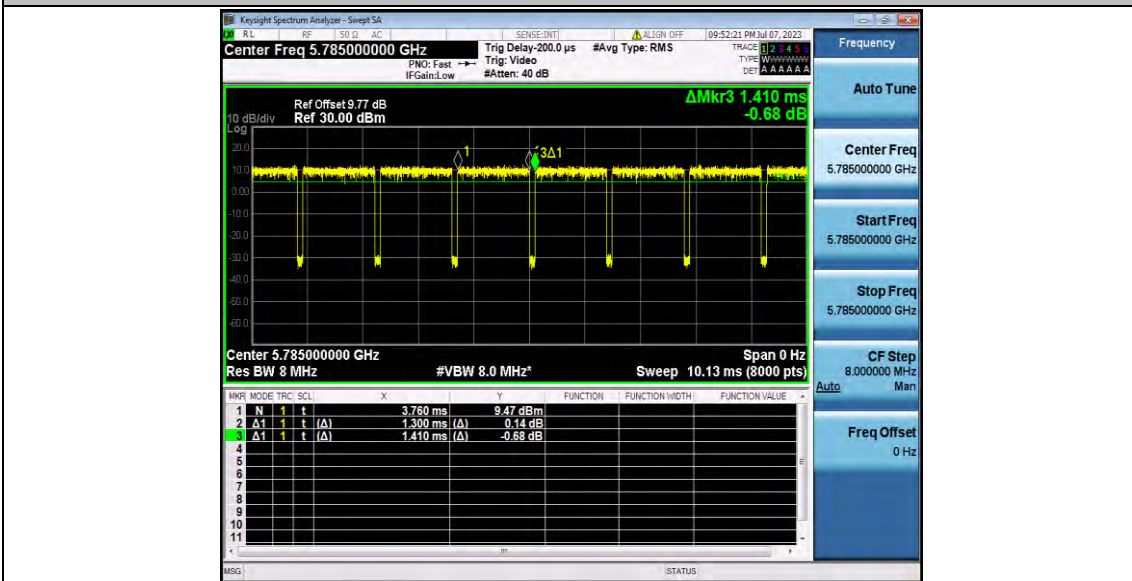
11A_Ant1_5785



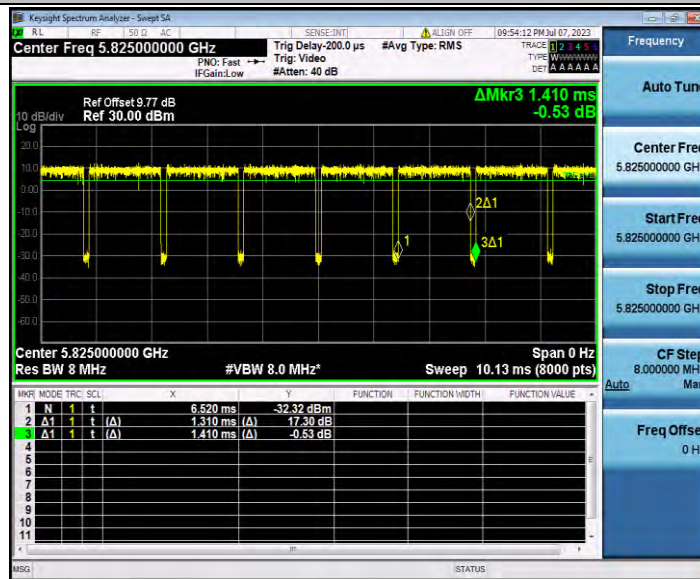
11A_Ant1_5825



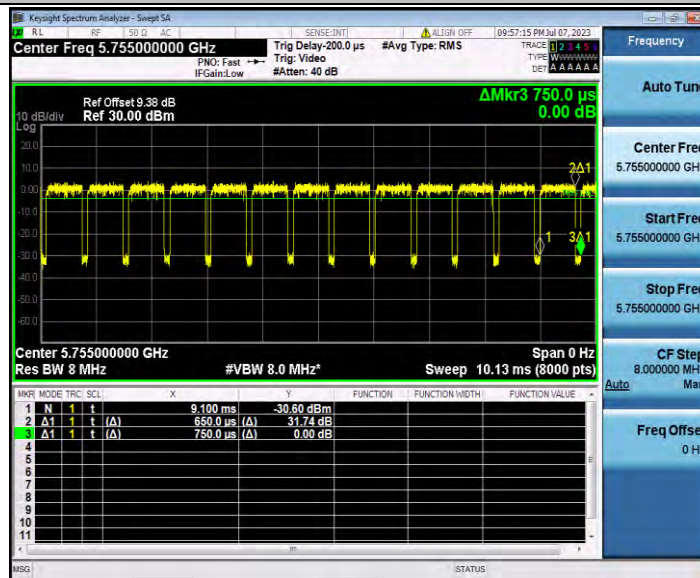
11N20SISO_Ant1_5745



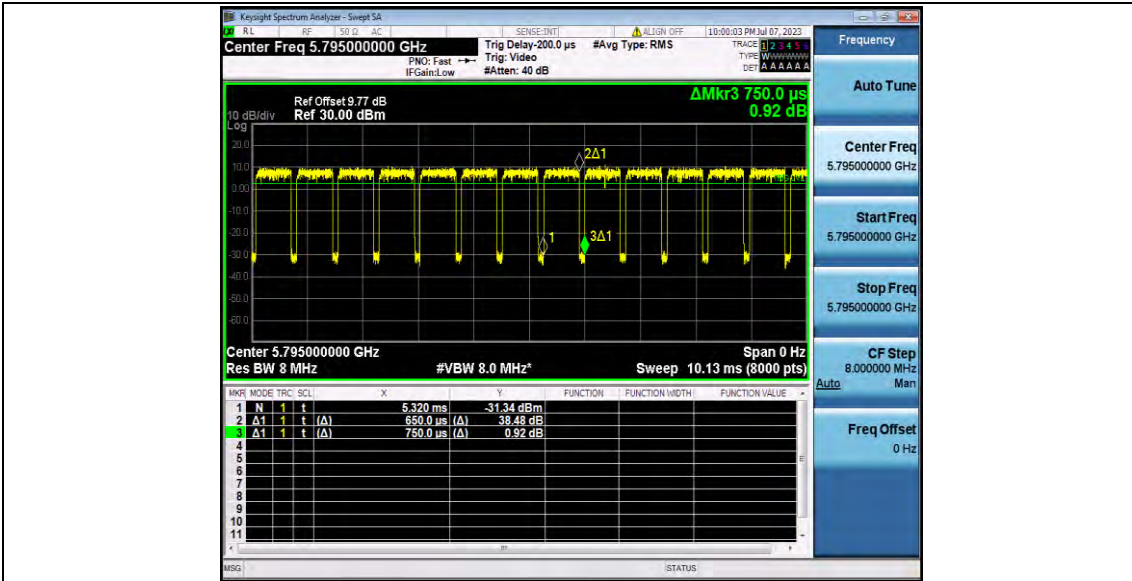
11N20SISO_Ant1_5785



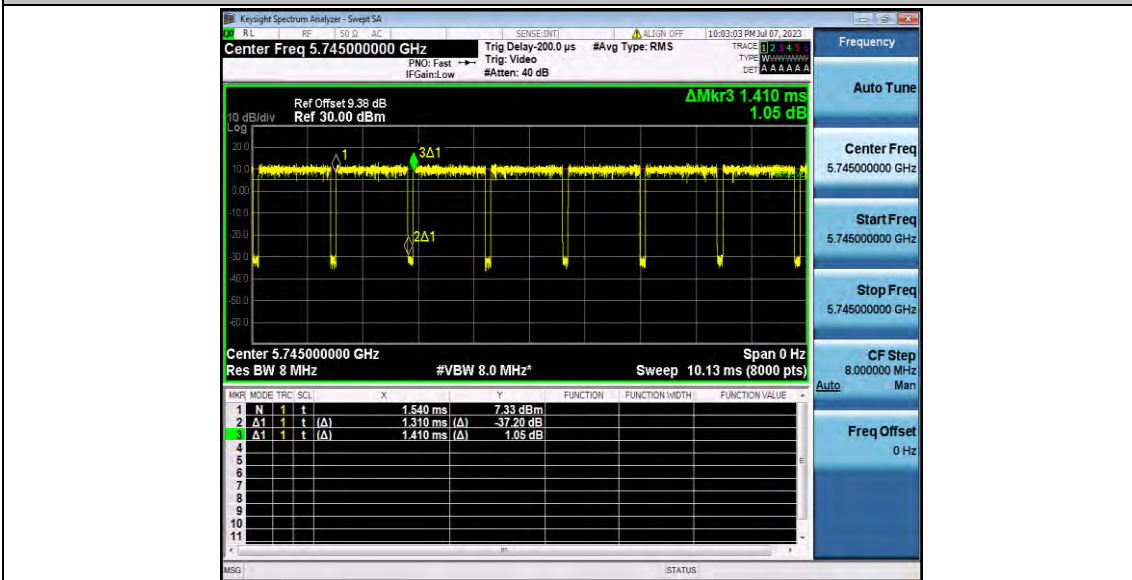
11N20SISO_Ant1_5825



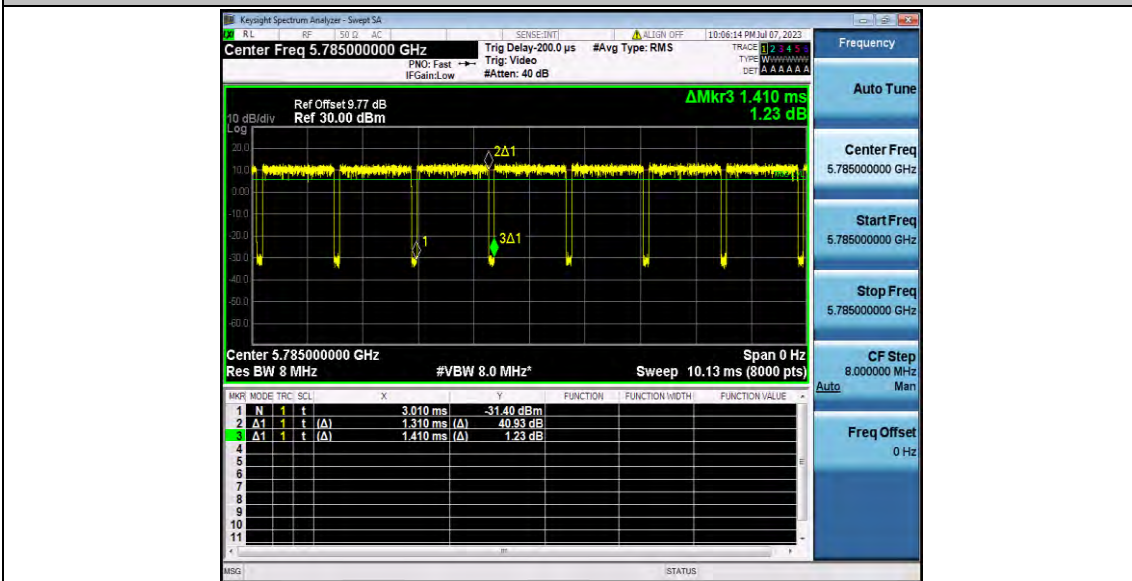
11N40SISO_Ant1_5755



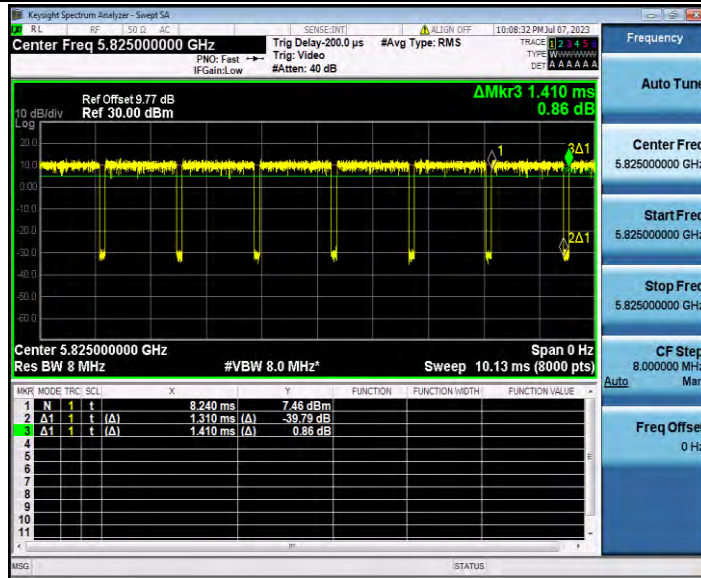
11N40SISO_Ant1_5795



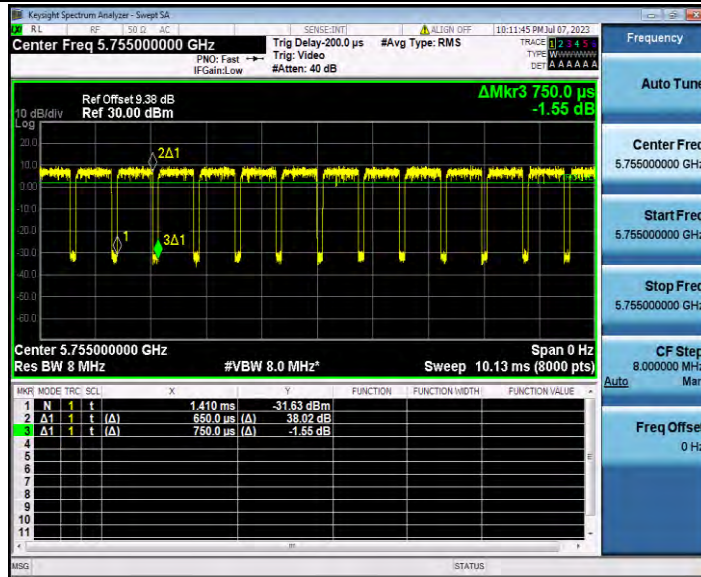
11AC20SISO_Ant1_5745



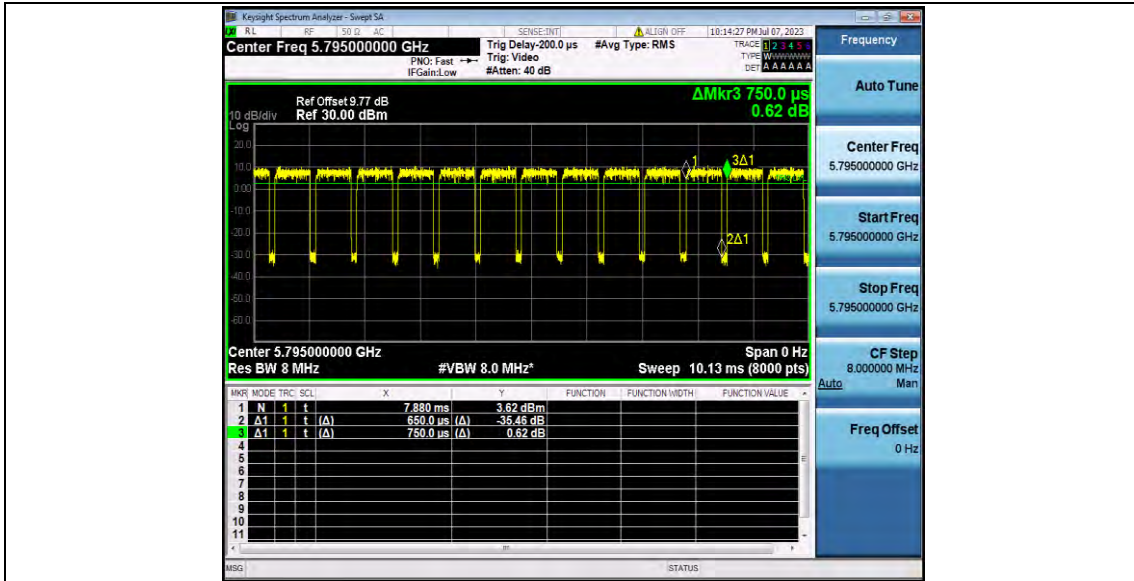
11AC20SISO_Ant1_5785



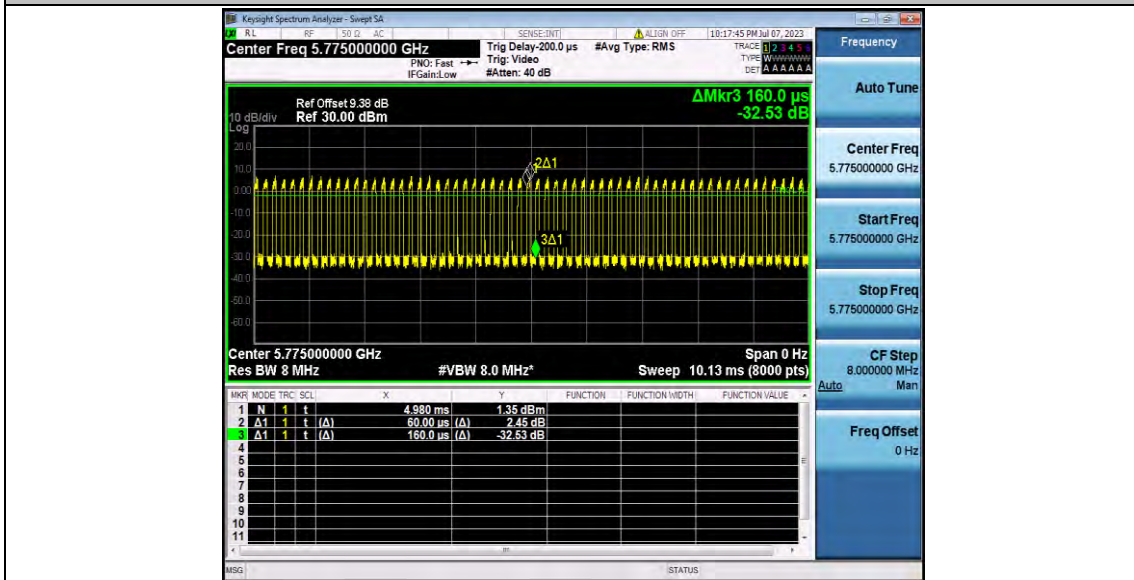
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix G.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	11.51	92.20	0.35	11.86	≤30.00	PASS
		5785	12.06	92.91	0.32	12.38	≤30.00	PASS
		5825	11.66	92.91	0.32	11.98	≤30.00	PASS
11N20SISO	Ant1	5745	11.89	92.91	0.32	12.21	≤30.00	PASS
		5785	12.11	92.20	0.35	12.46	≤30.00	PASS
		5825	11.83	92.91	0.32	12.15	≤30.00	PASS
11N40SISO	Ant1	5755	10.09	86.67	0.62	10.71	≤30.00	PASS
		5795	12.52	86.67	0.62	13.14	≤30.00	PASS
11AC20SISO	Ant1	5745	12.62	92.91	0.32	12.94	≤30.00	PASS
		5785	13.24	92.91	0.32	13.56	≤30.00	PASS
		5825	12.68	92.91	0.32	13.00	≤30.00	PASS
11AC40SISO	Ant1	5755	12.01	86.67	0.62	12.63	≤30.00	PASS
		5795	12.44	86.67	0.62	13.06	≤30.00	PASS
11AC80SISO	Ant1	5775	8.41	37.50	4.26	12.67	≤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	-1.14	≤30.00	PASS
		5785	-0.59	≤30.00	PASS
		5825	-0.98	≤30.00	PASS
11N20SISO	Ant1	5745	-1.06	≤30.00	PASS
		5785	-0.62	≤30.00	PASS
		5825	-0.86	≤30.00	PASS
11N40SISO	Ant1	5755	-9.57	≤30.00	PASS
		5795	-3.09	≤30.00	PASS
11AC20SISO	Ant1	5745	-0.11	≤30.00	PASS
		5785	0.46	≤30.00	PASS
		5825	-0.1	≤30.00	PASS
11AC40SISO	Ant1	5755	-3.7	≤30.00	PASS
		5795	-2.98	≤30.00	PASS
11AC80SISO	Ant1	5775	-5.32	≤30.00	PASS

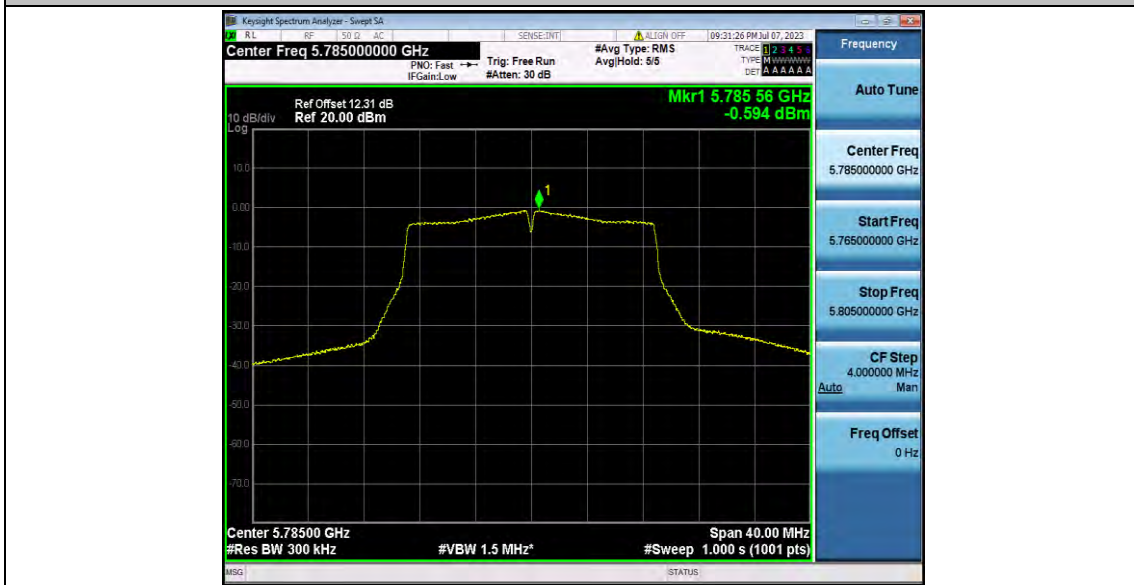
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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[M Hz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-33.83	≤7.17	PASS
				5700~5720	-27.88	≤15.43	PASS
				5720~5725	-25.21	≤23.42	PASS
				5760~5650	-40.04	≤-27	PASS
		High	5825	5850~5855	-26.96	≤15.79	PASS
				5855~5875	-28.77	≤10.25	PASS
				5875~5925	-36.23	≤-26.56	PASS
5925~5935	-38.82	≤-27	PASS				
11N20SIS O	Ant1	Low	5745	5650~5700	-35.05	≤7.94	PASS
				5700~5720	-25.97	≤15.43	PASS
				5720~5725	-22.29	≤26.04	PASS
				5760~5650	-40.64	≤-27	PASS
		High	5825	5850~5855	-23.92	≤15.79	PASS
				5855~5875	-29.12	≤10.32	PASS
				5875~5925	-36.94	≤-9.27	PASS
5925~5935	-38.99	≤-27	PASS				
11N40SIS O	Ant1	Low	5755	5650~5700	-38.02	≤9.16	PASS
				5700~5720	-34.09	≤14.86	PASS
				5720~5725	-32.43	≤23.74	PASS
				5780~5650	-40.61	≤-27	PASS
		High	5795	5850~5855	-27.93	≤20.17	PASS
				5855~5875	-27.55	≤10.59	PASS
				5875~5925	-32.76	≤-26.31	PASS
5925~5935	-37.96	≤-27	PASS				
11AC20SI SO	Ant1	Low	5745	5650~5700	-34.2	≤9.04	PASS
				5700~5720	-25.73	≤15.59	PASS
				5720~5725	-20.31	≤24.99	PASS
				5760~5650	-40.55	≤-27	PASS
		High	5825	5850~5855	-24.09	≤17.33	PASS
				5855~5875	-27.85	≤11.04	PASS
				5875~5925	-36.29	≤-26.66	PASS
5925~5935	-37.68	≤-27	PASS				
11AC40SI SO	Ant1	Low	5755	5650~5700	-31.05	≤9.96	PASS
				5700~5720	-22.57	≤14.18	PASS
				5720~5725	-22.25	≤24.36	PASS

				5780~5650	-36.2	≤-27	PASS
		High	5795	5850~5855	-27.24	≤20.17	PASS
				5855~5875	-28.74	≤10.04	PASS
				5875~5925	-33.7	≤-23.26	PASS
				5925~5935	-38.71	≤-27	PASS
11AC80SI SO	Ant1	Low	5775	5650~5700	-26	≤0.61	PASS
				5700~5720	-24.07	≤15.52	PASS
				5720~5725	-24.99	≤16.00	PASS
				5800~5650	-35.02	≤-27	PASS
		High	5775	5850~5855	-25.57	≤23.39	PASS
				5855~5875	-26.04	≤13.29	PASS
				5875~5925	-30.63	≤-25.31	PASS
				5925~5935	-35.71	≤-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



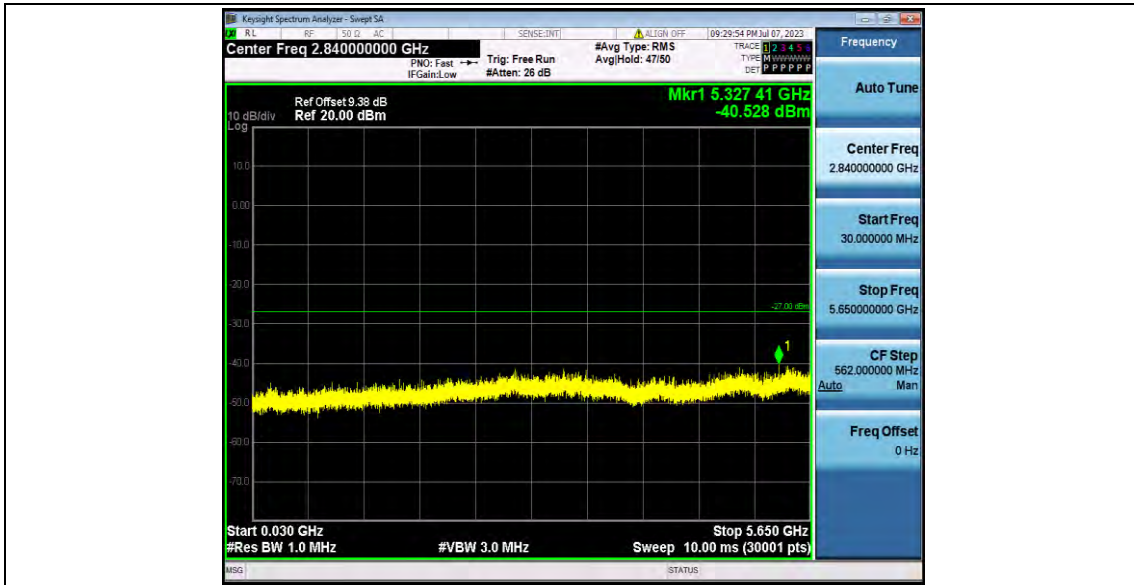
11AC80SISO_Ant1_High_5775

Appendix G.7: Conducted Spurious Emission

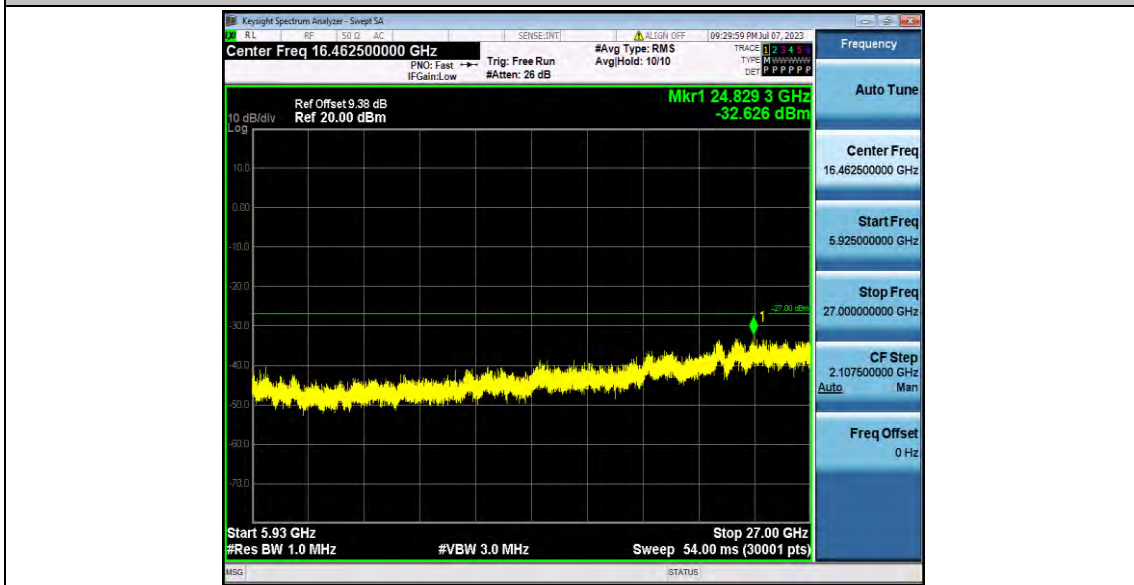
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5327.41	-40.53	≤-27	PASS
			5925~40000	24829.28	-32.63	≤-27	PASS
		5785	30~5650	2672.71	-40.86	≤-27	PASS
			5925~40000	25947.66	-32.29	≤-27	PASS
		5825	30~5650	5491.7	-39.47	≤-27	PASS
			5925~40000	23511.39	-32.73	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	911.78	-39.96	≤-27	PASS
			5925~40000	24204.05	-32.75	≤-27	PASS
		5785	30~5650	4739.37	-40.42	≤-27	PASS
			5925~40000	23613.25	-32.53	≤-27	PASS
		5825	30~5650	5490.2	-40.37	≤-27	PASS
			5925~40000	24324.88	-32.2	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5505.19	-40.66	≤-27	PASS
			5925~40000	23551.43	-32.99	≤-27	PASS
		5795	30~5650	5442.62	-40.79	≤-27	PASS
			5925~40000	26026.34	-30.87	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	2661.85	-40.24	≤-27	PASS
			5925~40000	25260.61	-32.59	≤-27	PASS
		5785	30~5650	5423.33	-40.21	≤-27	PASS
			5925~40000	25663.85	-32.2	≤-27	PASS
		5825	30~5650	5488.71	-40.85	≤-27	PASS
			5925~40000	24275	-32.35	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5644.94	-38.88	≤-27	PASS
			5925~40000	24780.1	-32.09	≤-27	PASS
		5795	30~5650	5466.41	-39.8	≤-27	PASS
			5925~40000	24176.65	-31.86	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5633.89	-37.45	≤-27	PASS
			5925~40000	26579.2	-32.92	≤-27	PASS

Test Graphs



11A_Ant1_5745_30~5650



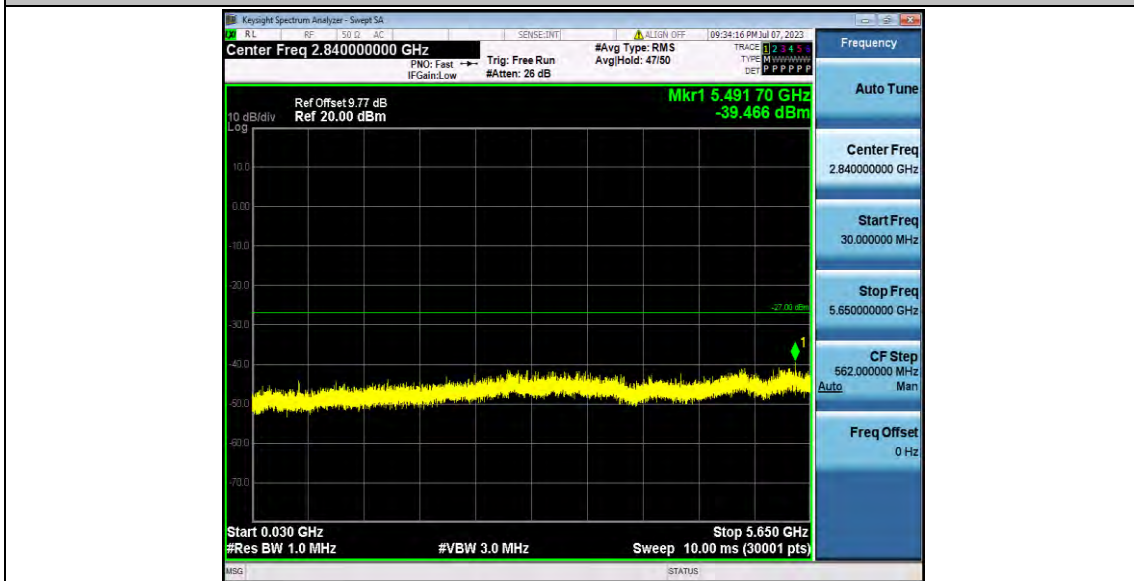
11A_Ant1_5745_5925~40000



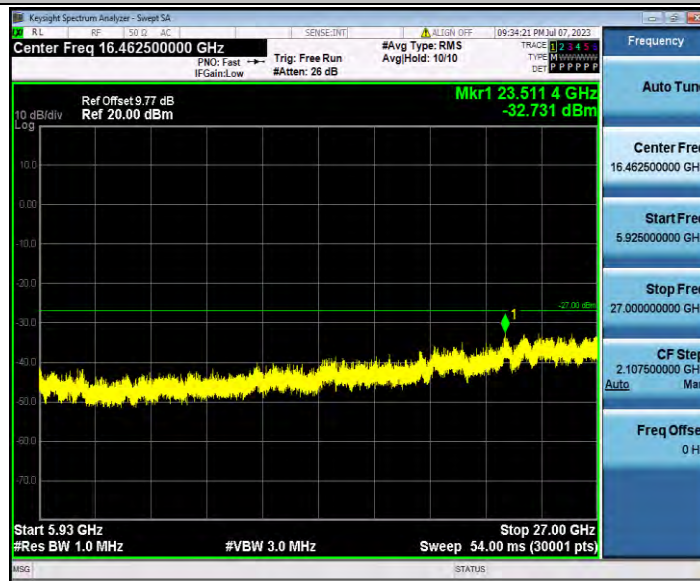
11A_Ant1_5785_30~5650



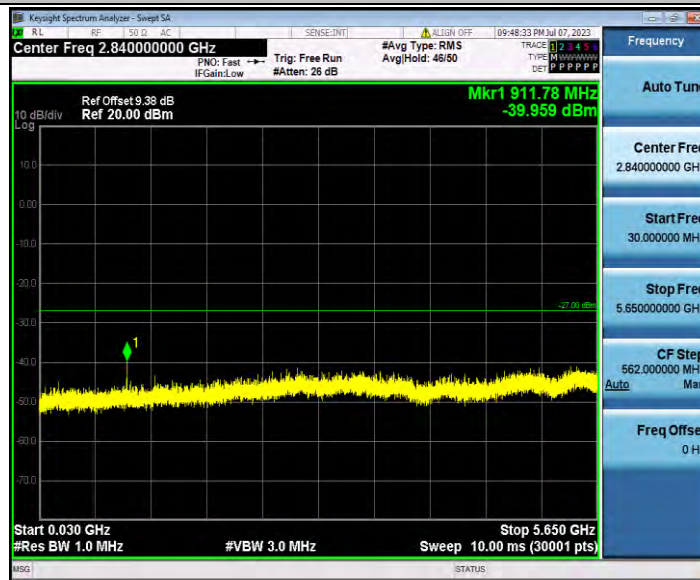
11A_Ant1_5785_5925~40000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~40000



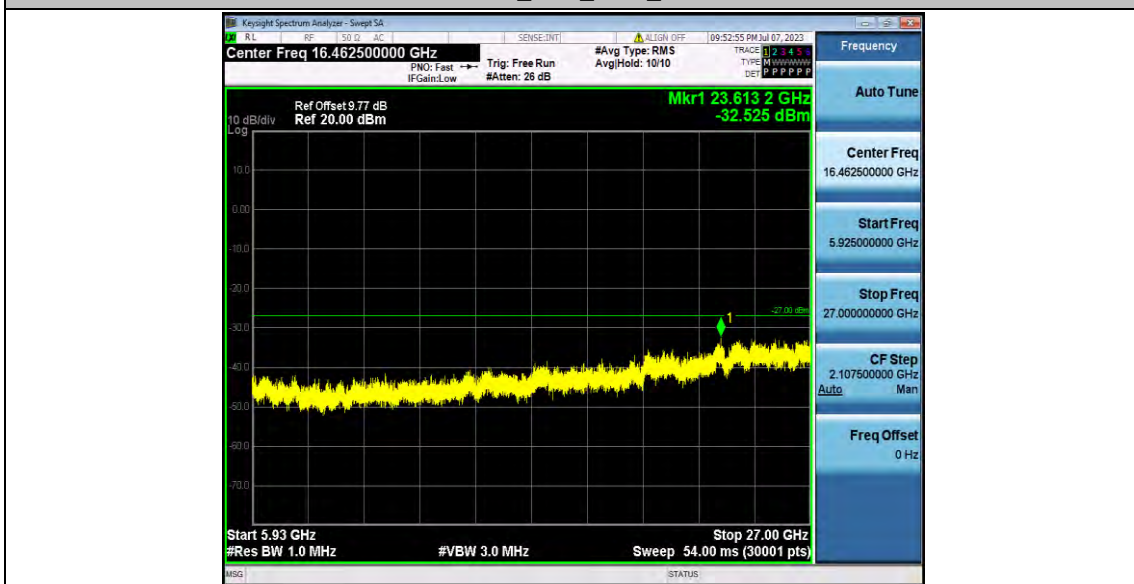
11N20SISO_Ant1_5745_30~5650



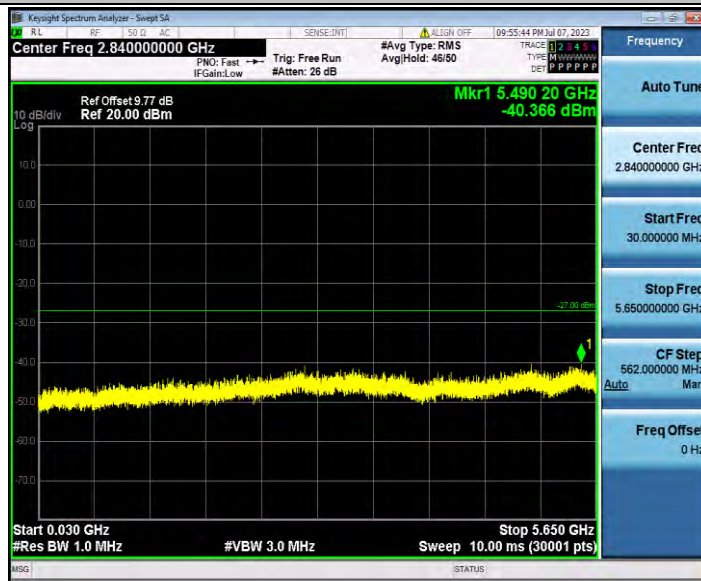
11N20SISO_Ant1_5745_5925~40000



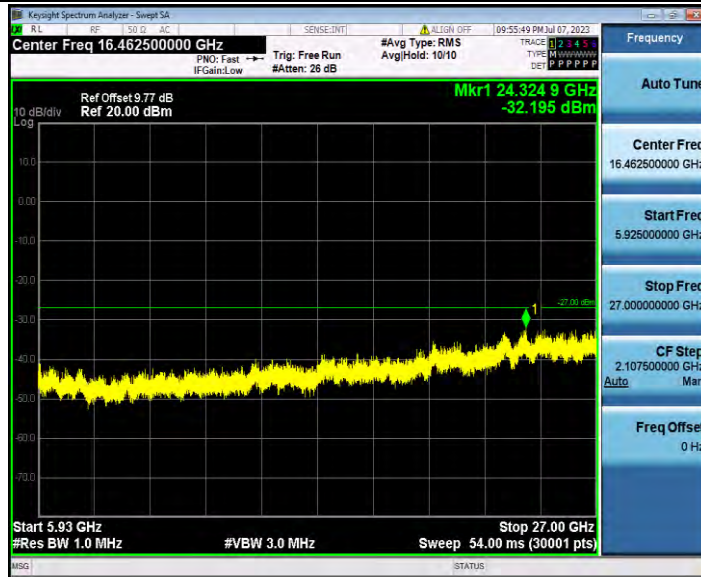
11N20SISO_Ant1_5785_30~5650



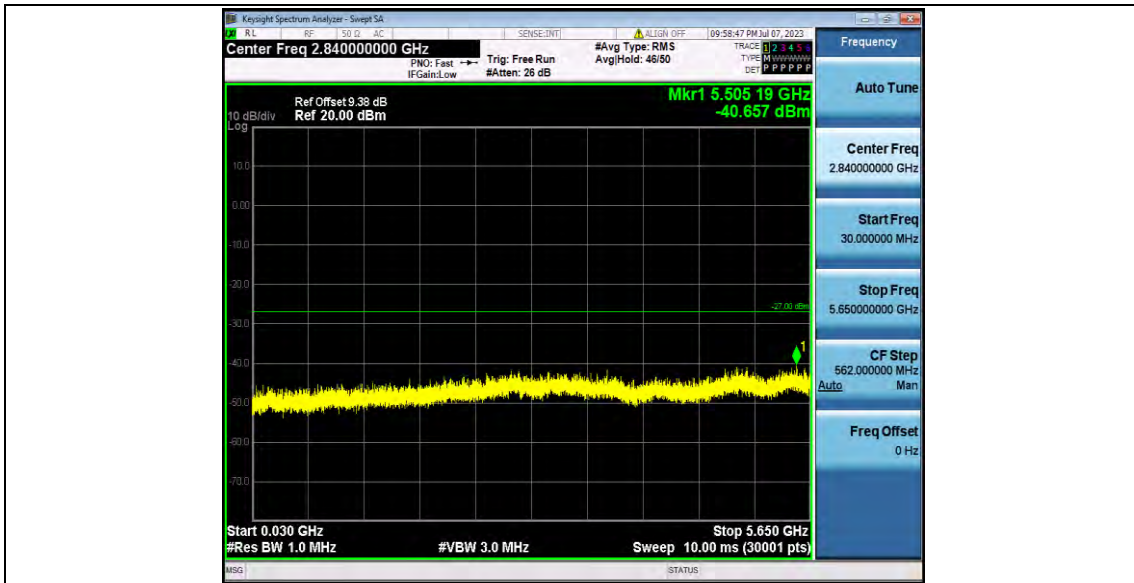
11N20SISO_Ant1_5785_5925~40000



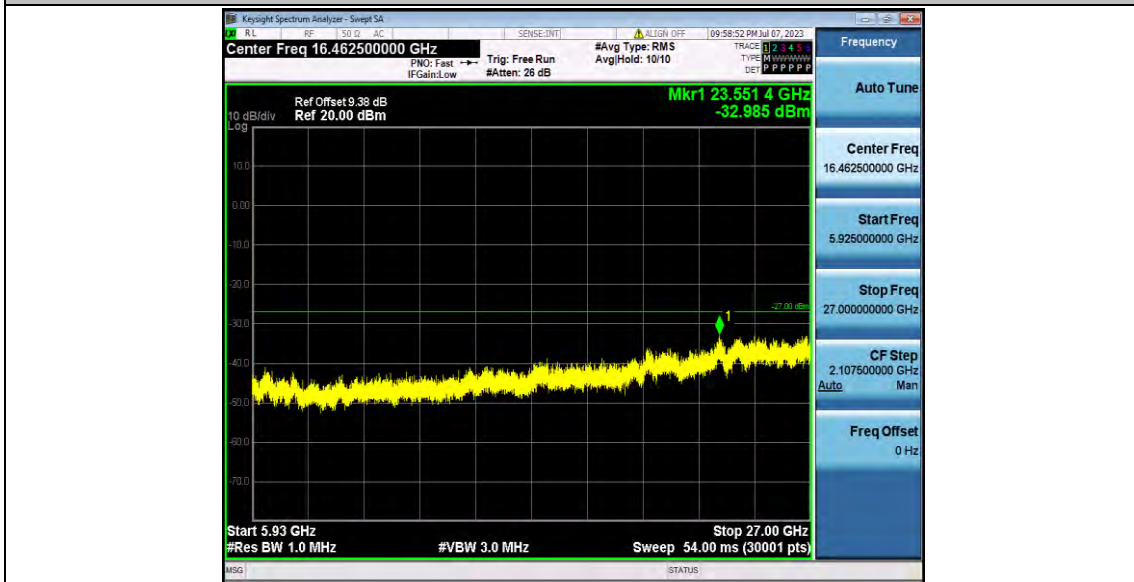
11N20SISO_Ant1_5825_30~5650



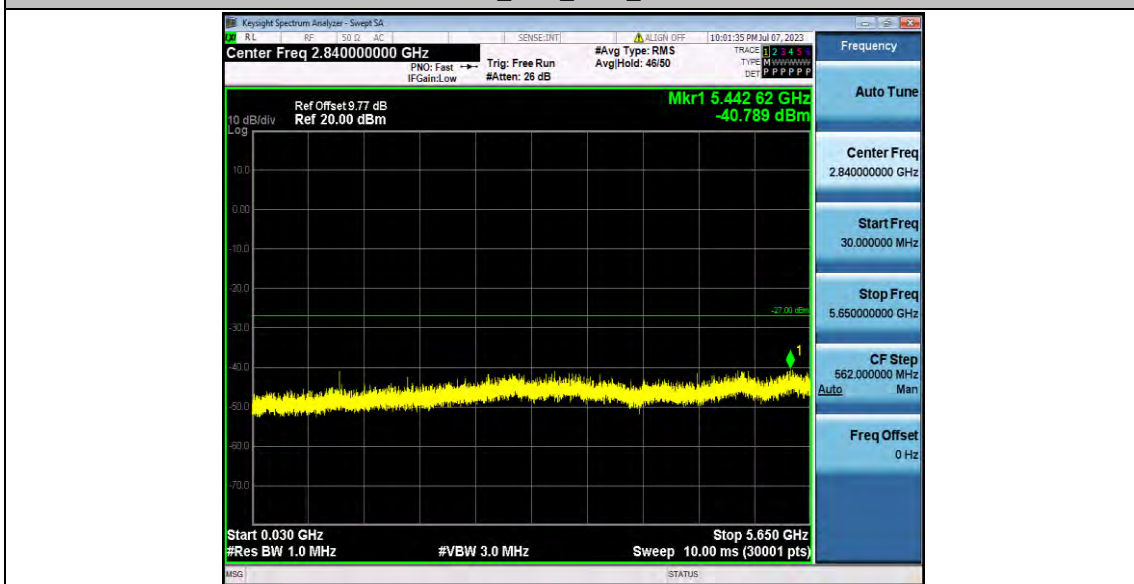
11N20SISO_Ant1_5825_5925~40000



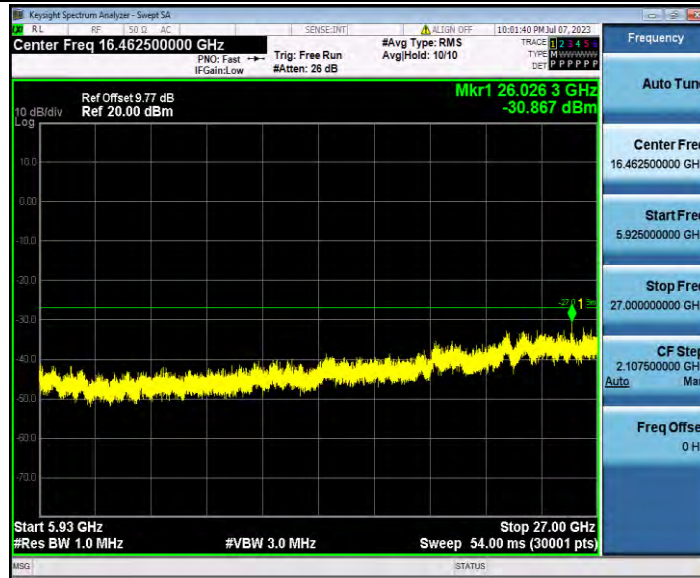
11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5755_5925~40000



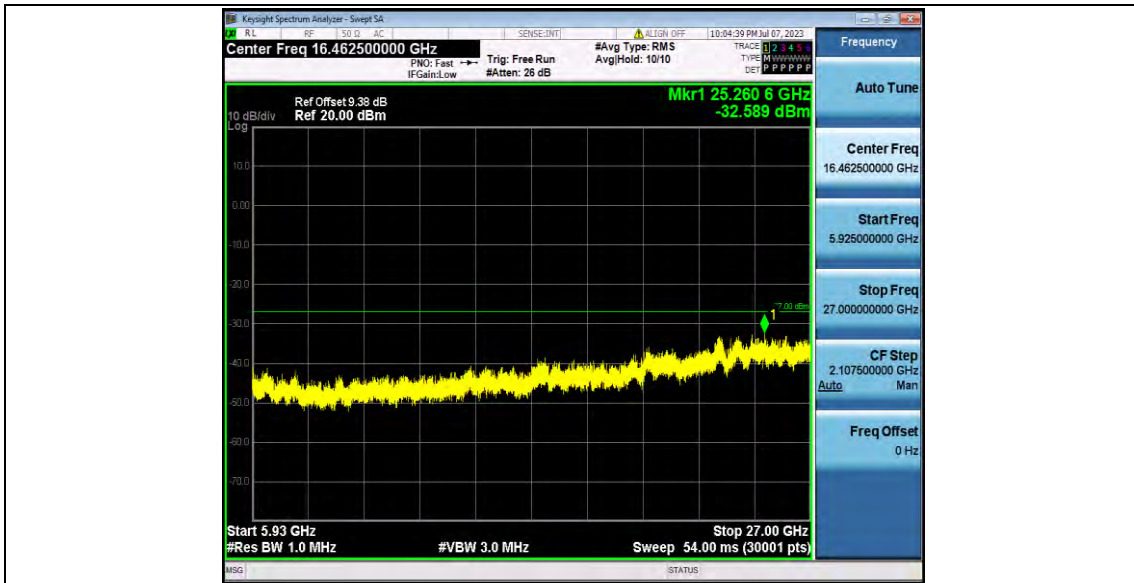
11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~40000



11AC20SISO_Ant1_5745_30~5650



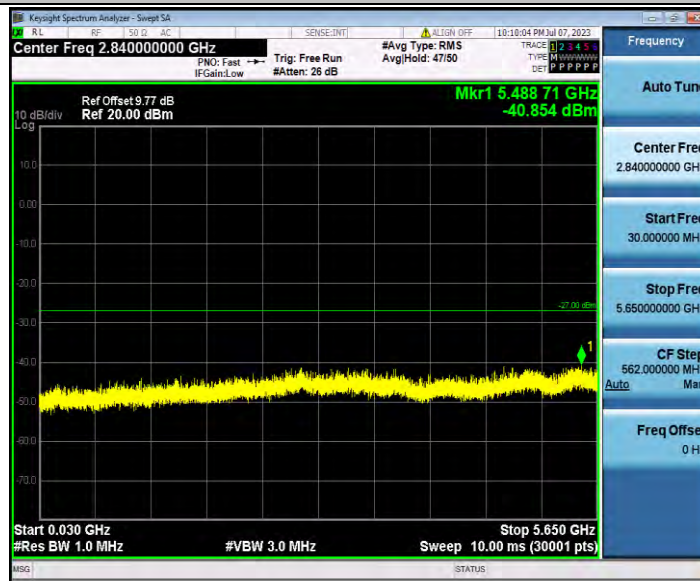
11AC20SISO_Ant1_5745_5925~4000



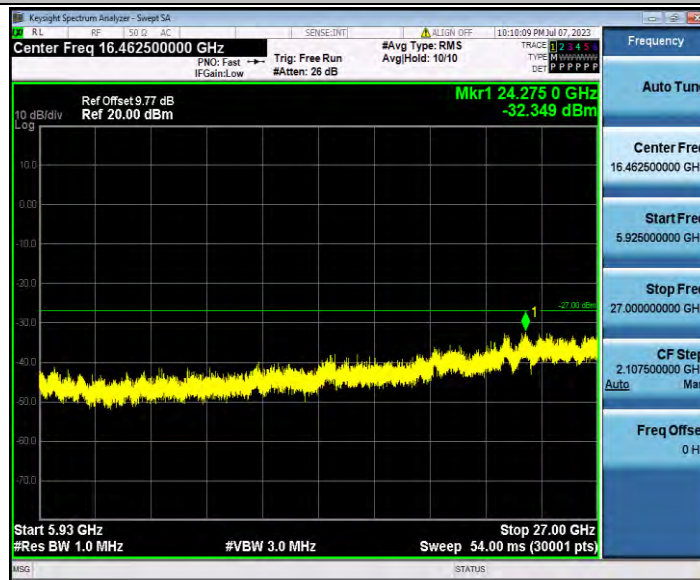
11AC20SISO_Ant1_5785_30~5650



11AC20SISO_Ant1_5785_5925~40000



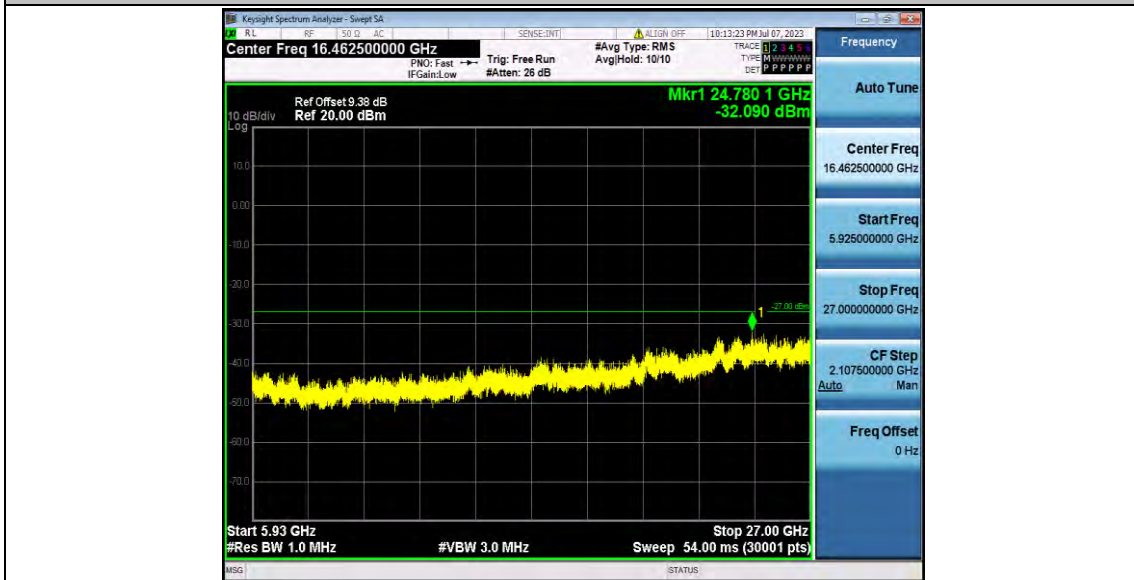
11AC20SISO_Ant1_5825_30~5650



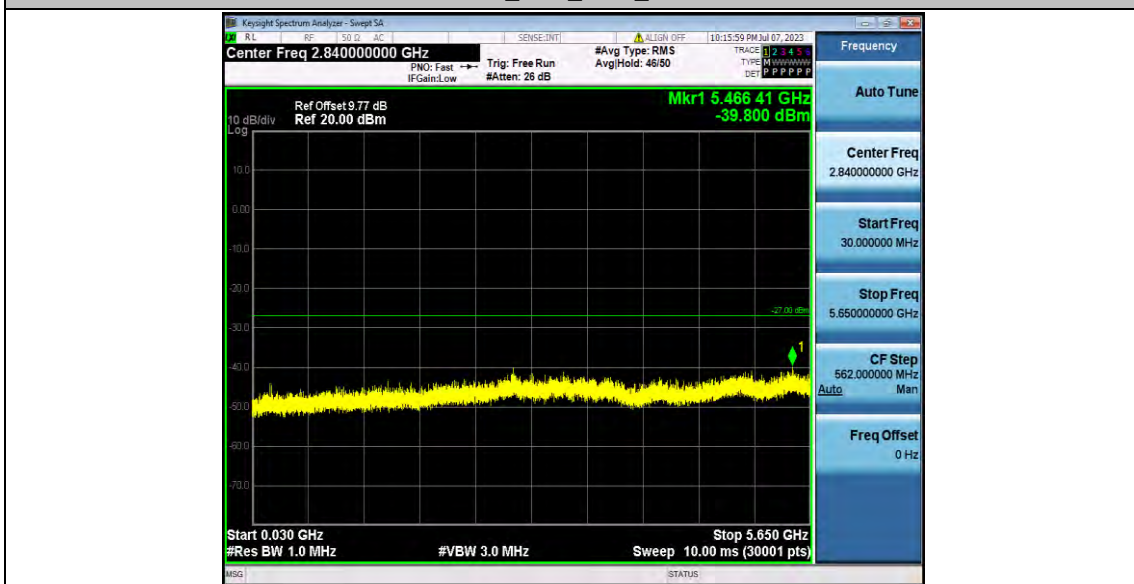
11AC20SISO_Ant1_5825_5925~40000



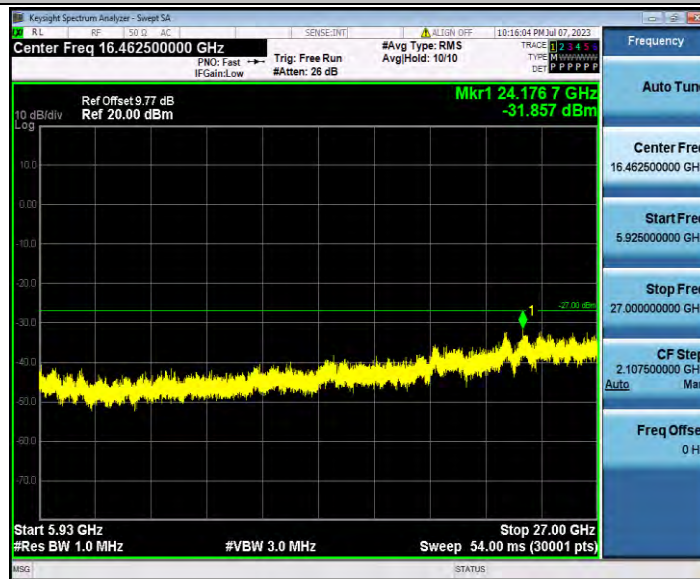
11AC40SISO_Ant1_5755_30~5650



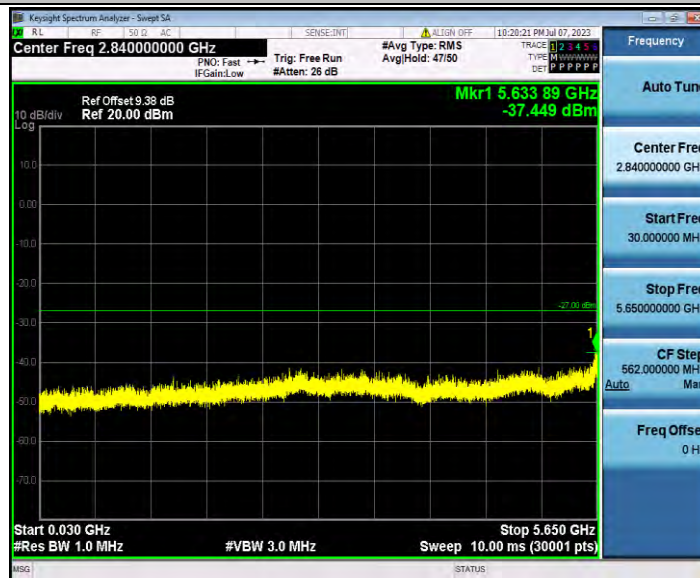
11AC40SISO_Ant1_5755_5925~40000



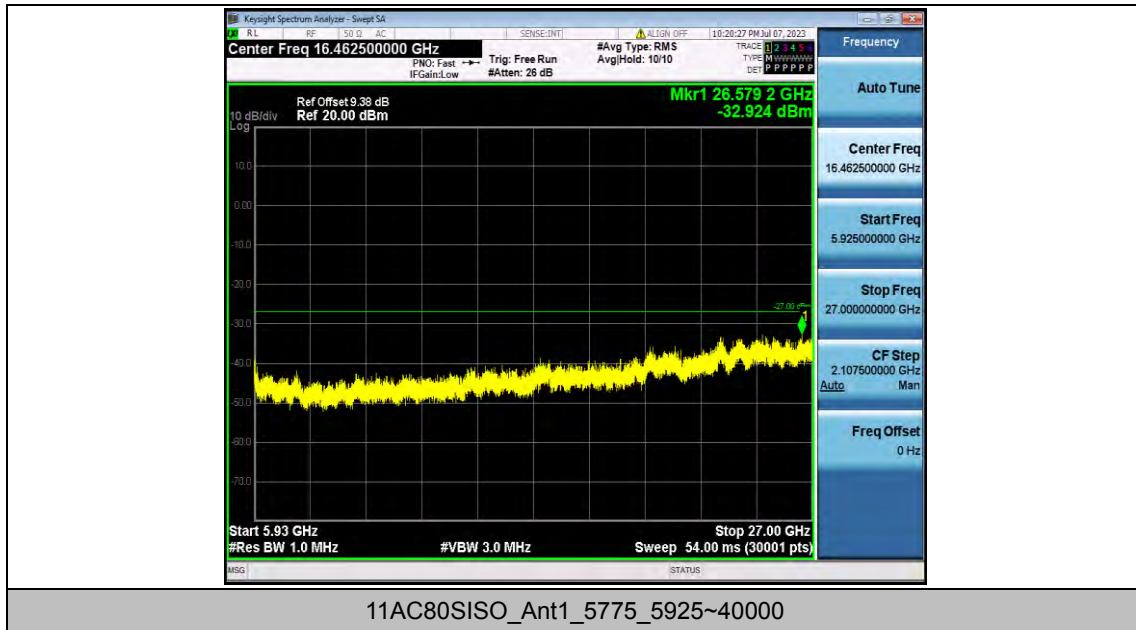
11AC40SISO_Ant1_5795_30~5650



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	-40.42 7	≤-27.00	---	---	PASS
				Peak	5700.000	-32.91	≤10.00	---	---	PASS
				Peak	5720.000	-30.51	≤15.60	---	---	PASS
				Peak	5725.000	-24.61	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-25.58 8	≤15.60	---	---	PASS
				Peak	5855.000	-29.46	≤27.00	---	---	PASS
				Peak	5875.000	-38.68	≤15.60	---	---	PASS
Peak	5925.000	-38.19	≤10.00	---	---	PASS				
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-41.90 3	≤-27.00	---	---	PASS
				Peak	5700.000	-38.93	≤10.00	---	---	PASS
				Peak	5720.000	-30.55	≤15.60	---	---	PASS
				Peak	5725.000	-28.76	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-26.10 3	≤15.60	---	---	PASS
				Peak	5855.000	-31.97	≤27.00	---	---	PASS
				Peak	5875.000	-38.12	≤15.60	---	---	PASS
Peak	5925.000	-40.04	≤10.00	---	---	PASS				
11N40SIS O	Ant1	Low	5755	Peak	5650.000	-40.98 6	≤-27.00	---	---	PASS
				Peak	5700.000	-36.39	≤10.00	---	---	PASS
				Peak	5720.000	-34.73	≤15.60	---	---	PASS
				Peak	5725.000	-33.25	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-27.57 2	≤15.60	---	---	PASS
				Peak	5855.000	-30.22	≤27.00	---	---	PASS
				Peak	5875.000	-34.82	≤15.60	---	---	PASS
Peak	5925.000	-37.84	≤10.00	---	---	PASS				
11AC20SI SO	Ant1	Low	5745	Peak	5650.000	-40.29	≤-27.00	---	---	PASS
				Peak	5700.000	-33.26	≤10.00	---	---	PASS
				Peak	5720.000	-26.99	≤15.60	---	---	PASS
				Peak	5725.000	-24.56	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-24.50 5	≤15.60	---	---	PASS

				Peak	5855.000	-30.71	≤ 27.00	---	---	PASS
				Peak	5875.000	-35.95	≤ 15.60	---	---	PASS
				Peak	5925.000	-40.58	≤ 10.00	---	---	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-40.33	≤ -27.00	---	---	PASS
				Peak	5700.000	-30.31	≤ 10.00	---	---	PASS
				Peak	5720.000	-25.43	≤ 15.60	---	---	PASS
				Peak	5725.000	-24.36	≤ 27.00	---	---	PASS
		High	5795	Peak	5850.000	-29.29 8	≤ 15.60	---	---	PASS
				Peak	5855.000	-27.73	≤ 27.00	---	---	PASS
				Peak	5875.000	-33.21	≤ 15.60	---	---	PASS
				Peak	5925.000	-36.34	≤ 10.00	---	---	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-34.85 8	≤ -27.00	---	---	PASS
				Peak	5700.000	-30.29	≤ 10.00	---	---	PASS
				Peak	5720.000	-28.38	≤ 15.60	---	---	PASS
				Peak	5725.000	-25.36	≤ 27.00	---	---	PASS
		High	5775	Peak	5850.000	-24.02 3	≤ 15.60	---	---	PASS
				Peak	5855.000	-25.46	≤ 27.00	---	---	PASS
				Peak	5875.000	-30.57	≤ 15.60	---	---	PASS
				Peak	5925.000	-38.31	≤ 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