

Case No. : CTA24052402904	
Ambient Condition: 22 °C, 49 %RH	
According Standard: ■Part15E	
Test Date: 2024.2.21	Test Engineer: Evan ouyang

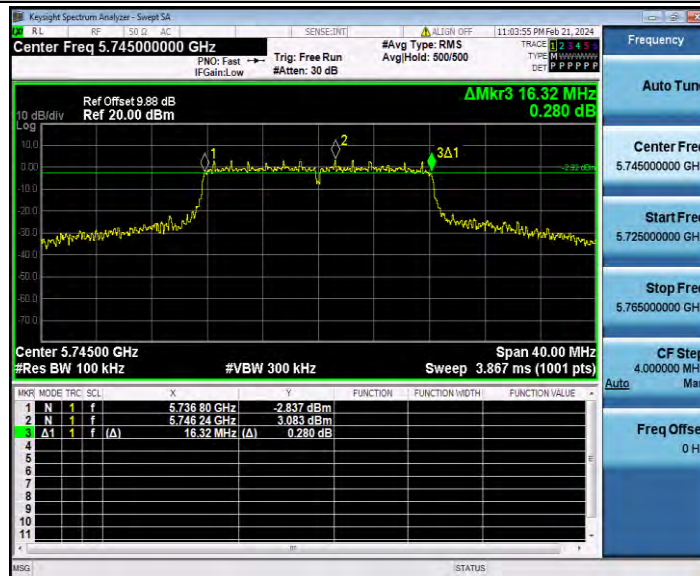
Appendix E.1: Min emission bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.800	5753.120	0.5	PASS
		5785	16.280	5776.840	5793.120	0.5	PASS
		5825	16.280	5816.840	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.240	5736.200	5753.440	0.5	PASS
		5785	17.280	5776.480	5793.760	0.5	PASS
		5825	17.560	5816.200	5833.760	0.5	PASS
11N40SISO	Ant1	5755	35.440	5737.080	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.080	5776.440	5793.520	0.5	PASS
		5825	17.280	5816.440	5833.720	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

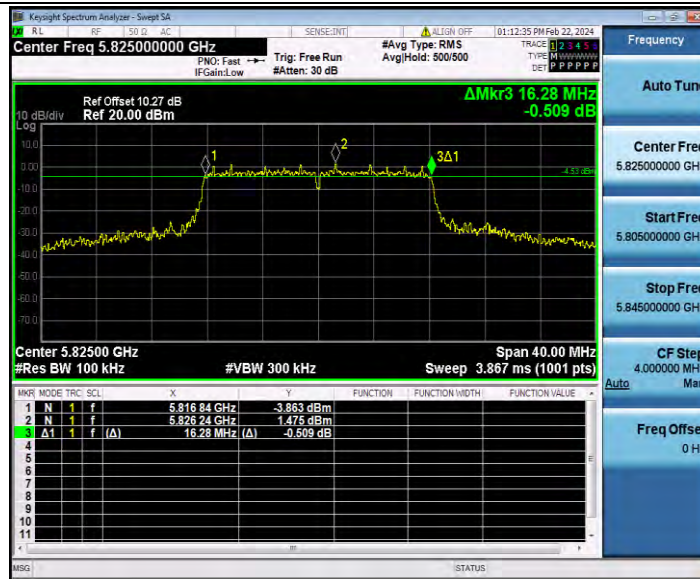
11A_Ant1_5745



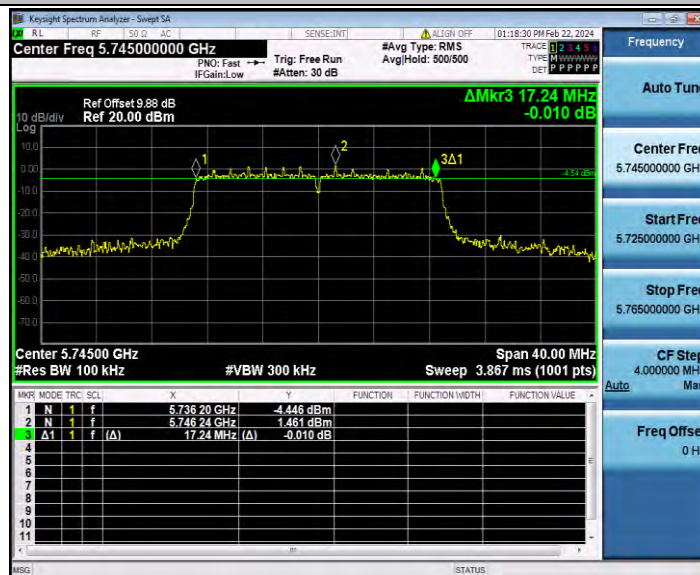
11A_Ant1_5785



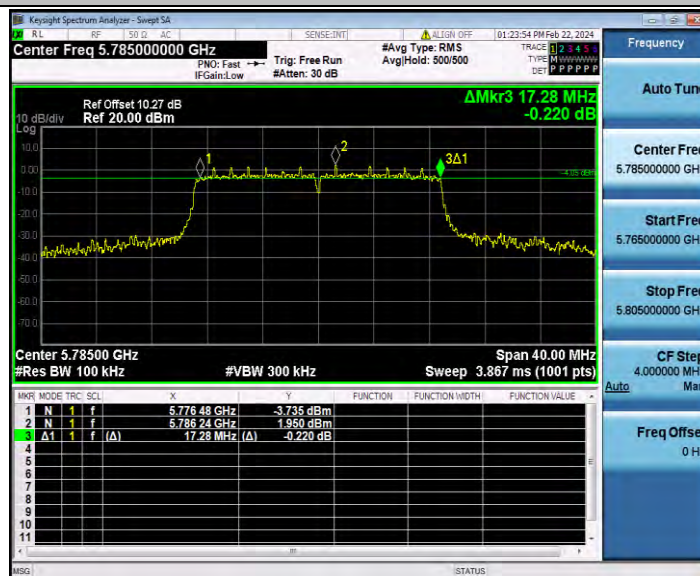
11A_Ant1_5825



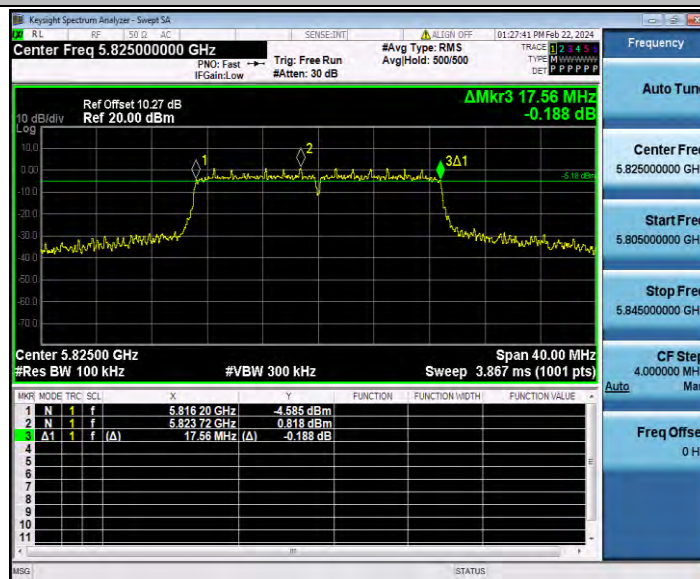
11N20SISO_Ant1_5745



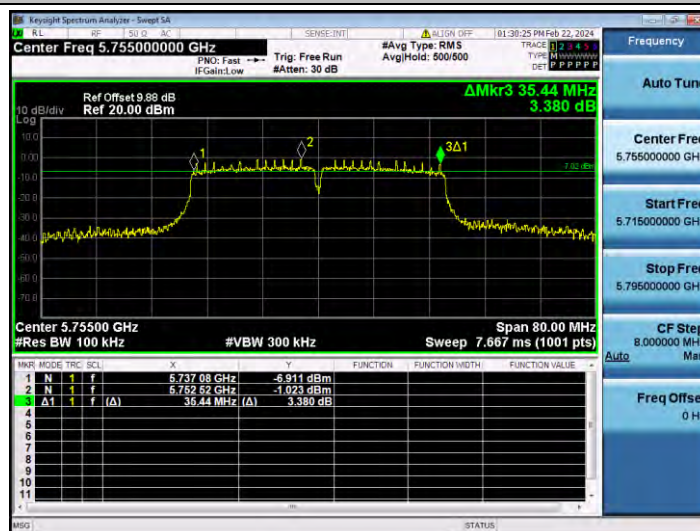
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



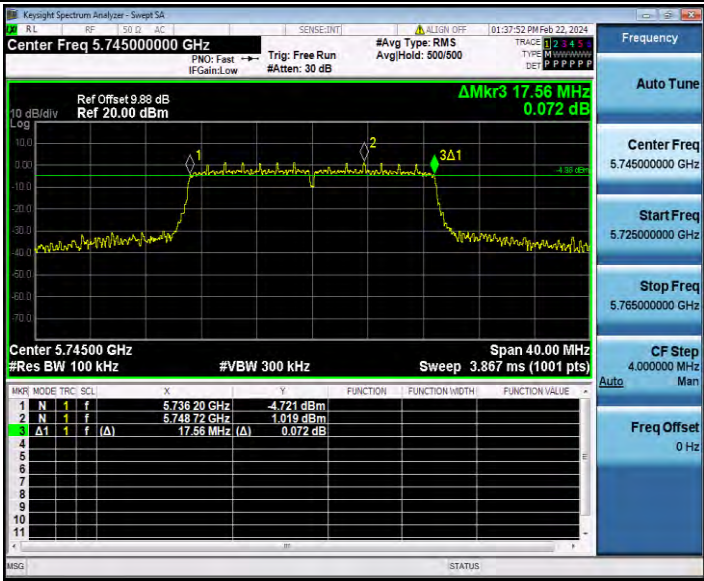
11N40SISO_Ant1_5755



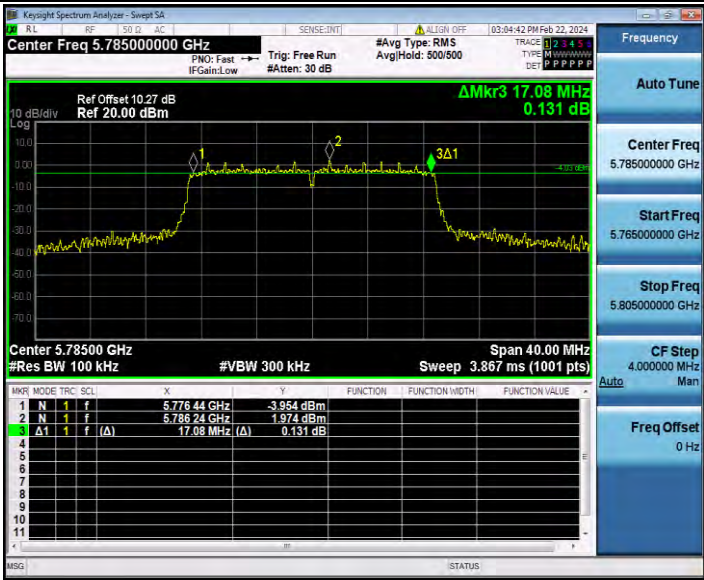
11N40SISO_Ant1_5795



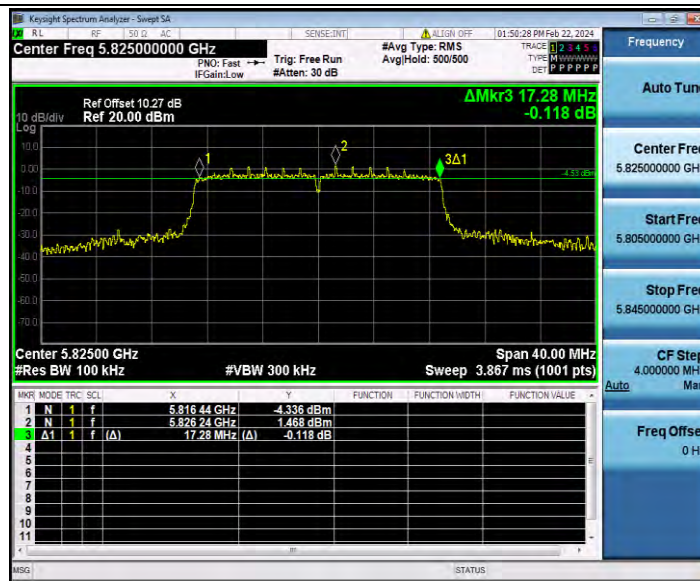
11AC20SISO_Ant1_5745



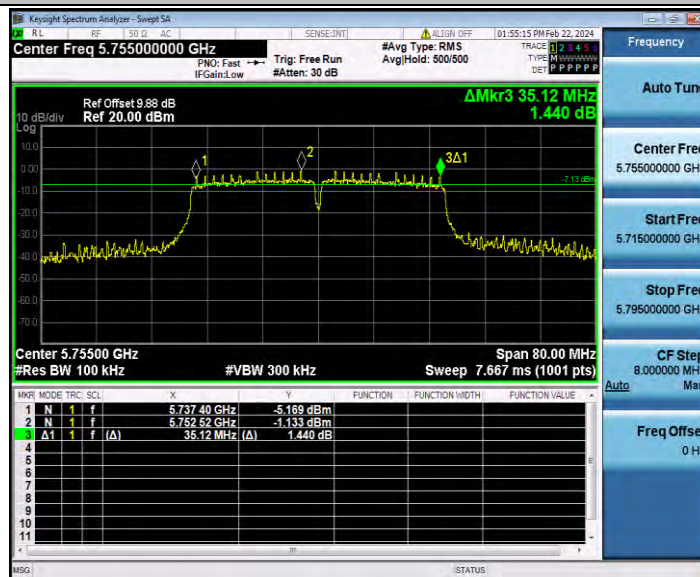
11AC20SISO_Ant1_5785



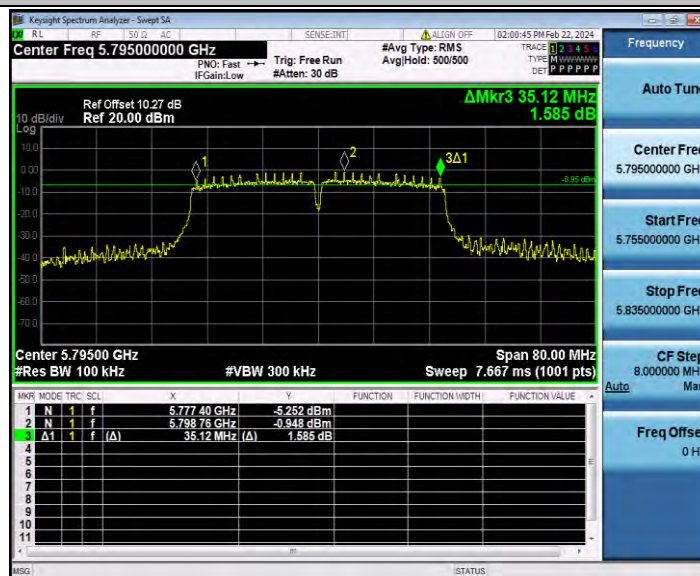
11AC20SISO_Ant1_5825

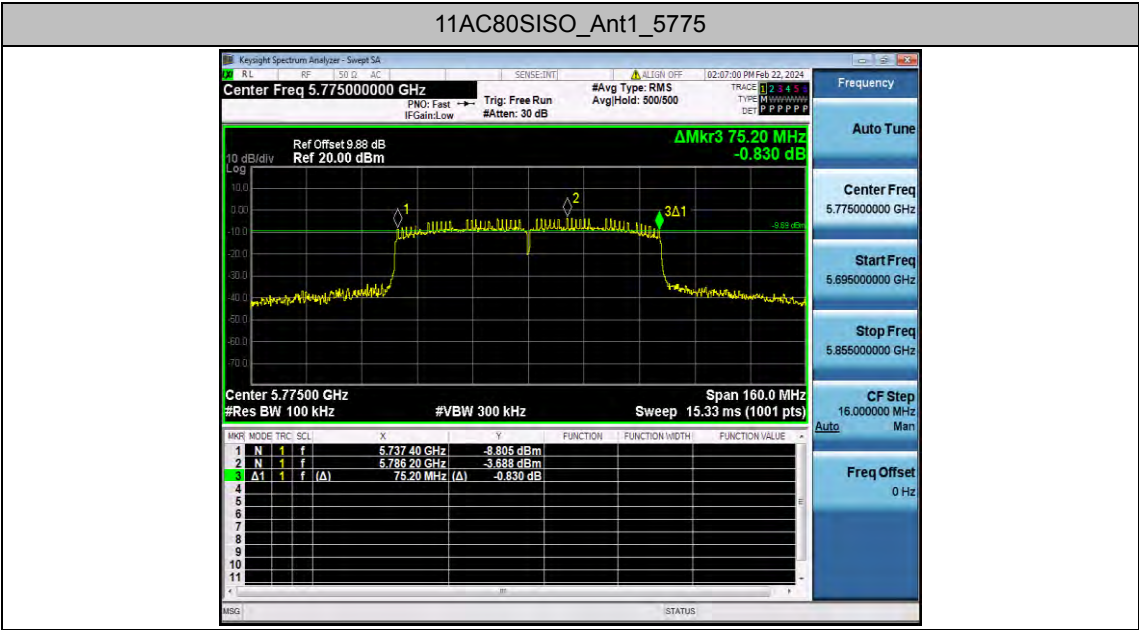


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





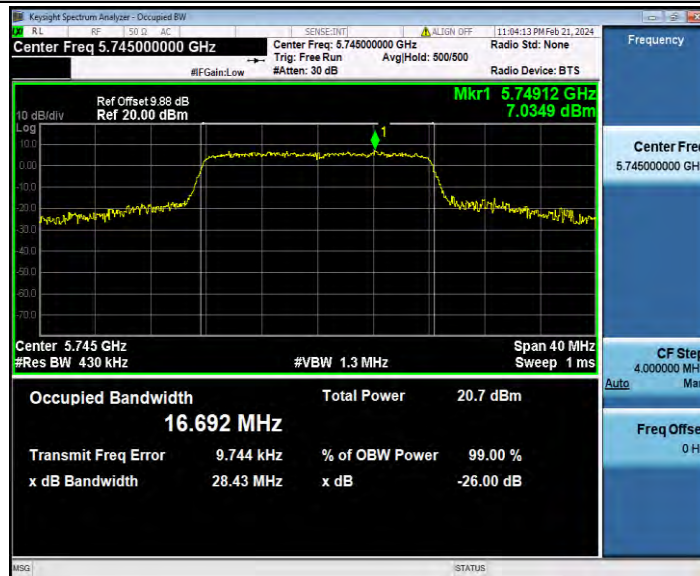
Appendix E.2: Occupied channel bandwidth

Test Result

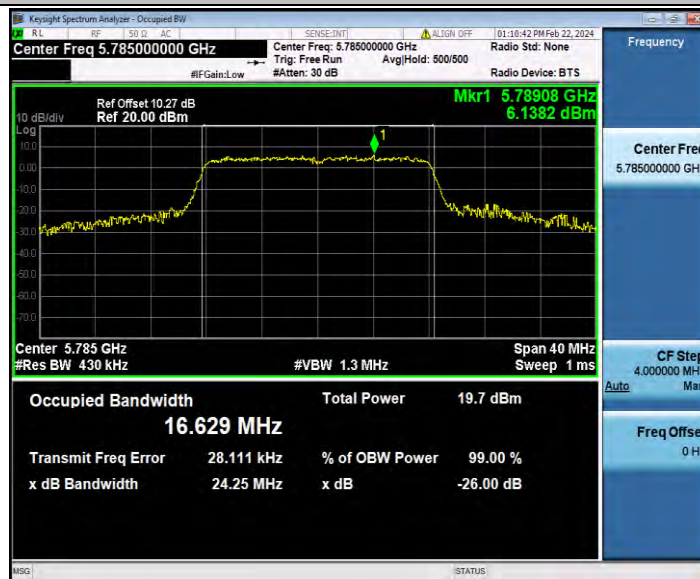
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.692	5736.6637	5753.3557	---	---
		5785	16.629	5776.7136	5793.3426	---	---
		5825	16.696	5816.6833	5833.3793	---	---
11N20SISO	Ant1	5745	17.681	5736.1415	5753.8225	---	---
		5785	17.717	5776.1523	5793.8693	---	---
		5825	17.755	5816.1165	5833.8715	---	---
11N40SISO	Ant1	5755	36.720	5736.6605	5773.3805	---	---
		5795	36.707	5776.6856	5813.3926	---	---
11AC20SISO	Ant1	5745	17.665	5736.1487	5753.8137	---	---
		5785	17.669	5776.1695	5793.8385	---	---
		5825	17.735	5816.1270	5833.8620	---	---
11AC40SISO	Ant1	5755	36.517	5736.7651	5773.2821	---	---
		5795	36.440	5776.8098	5813.2498	---	---
11AC80SISO	Ant1	5775	75.004	5737.5540	5812.5580	---	---

Test Graphs

11A_Ant1_5745



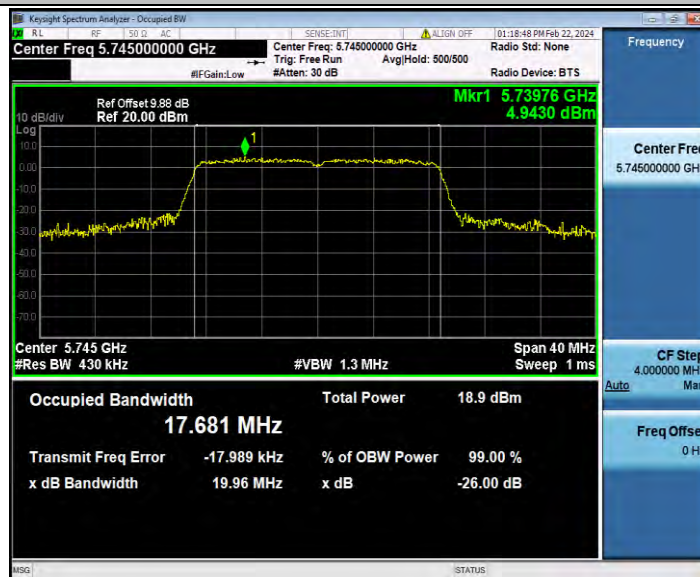
11A_Ant1_5785



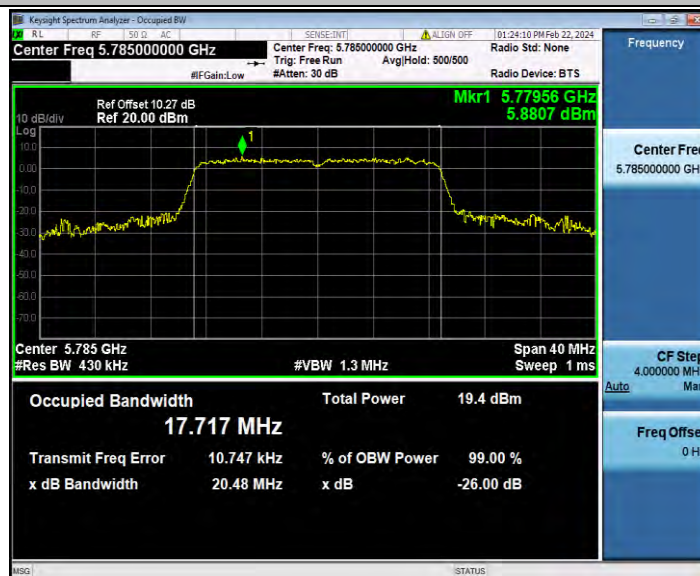
11A_Ant1_5825



11N20SISO_Ant1_5745



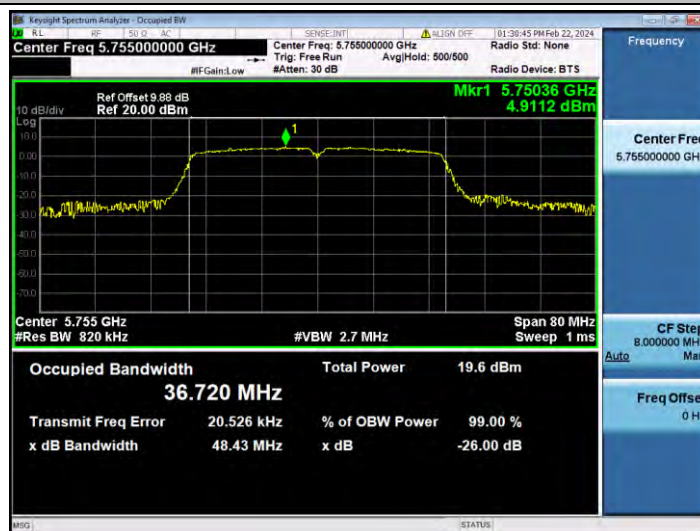
11N20SISO_Ant1_5785



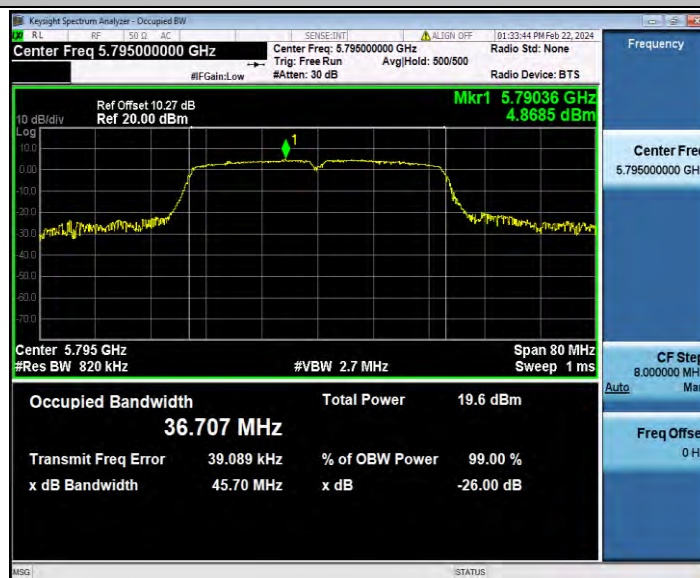
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



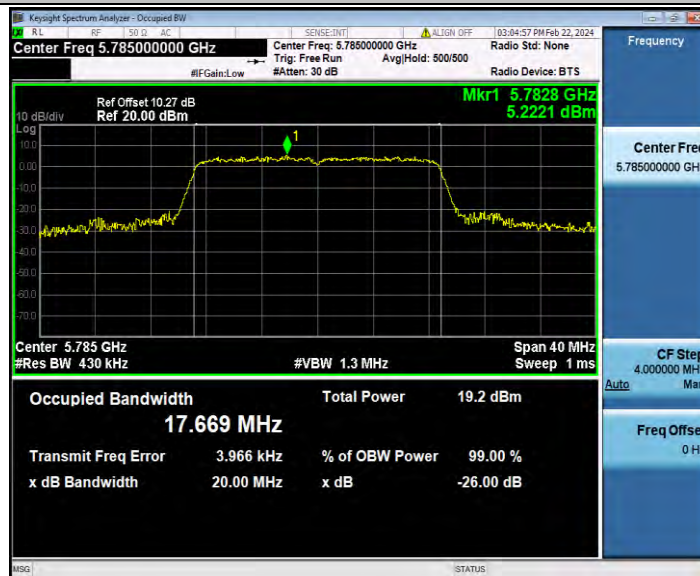
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



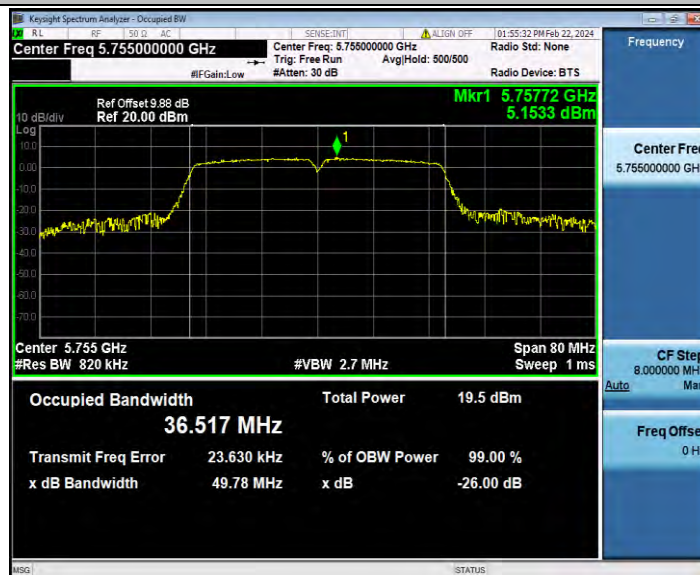
11AC20SISO_Ant1_5785



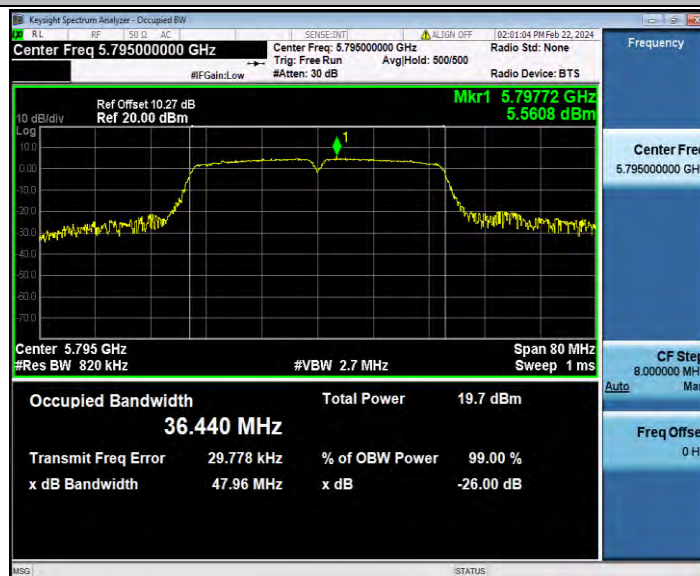
11AC20SISO_Ant1_5825

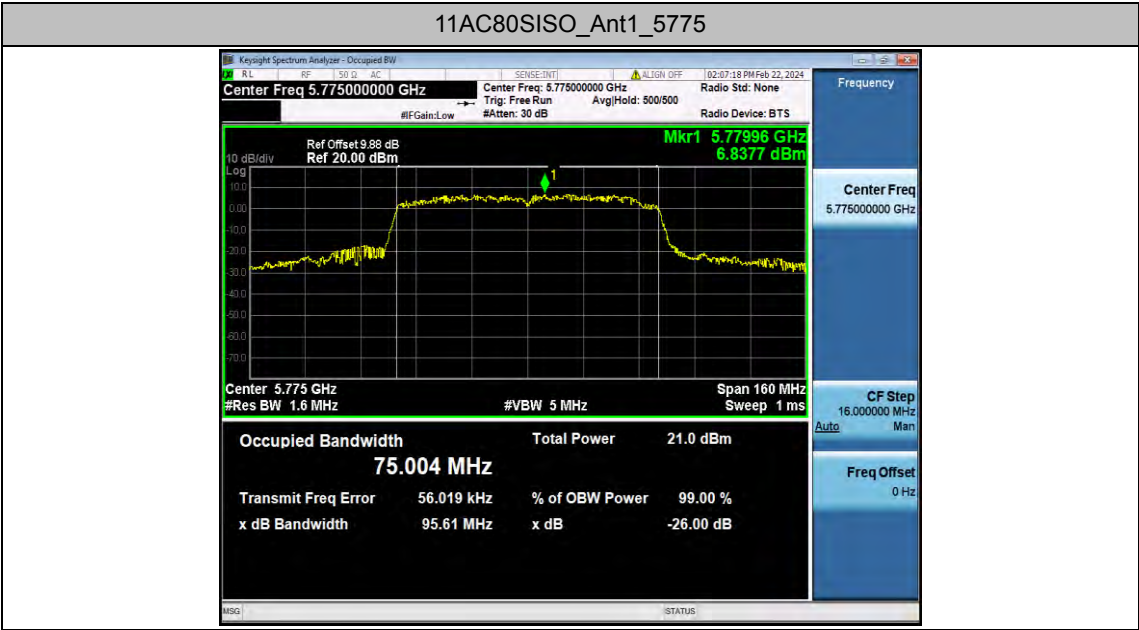


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





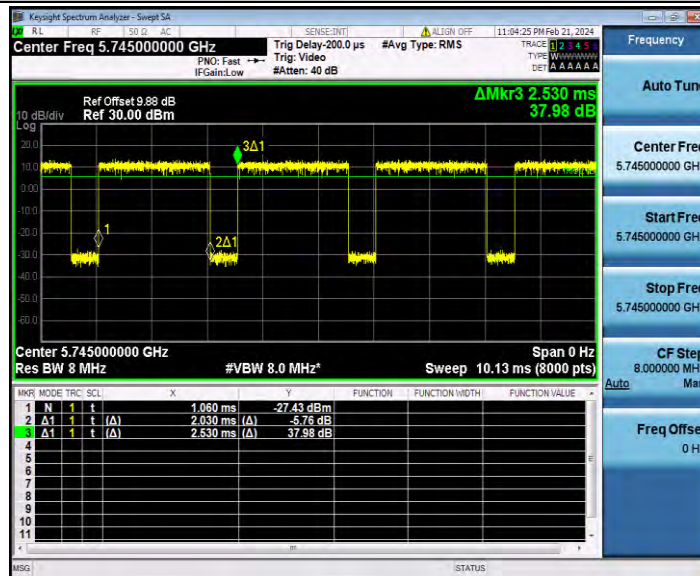
Appendix E.3: Duty Cycle

Test Result

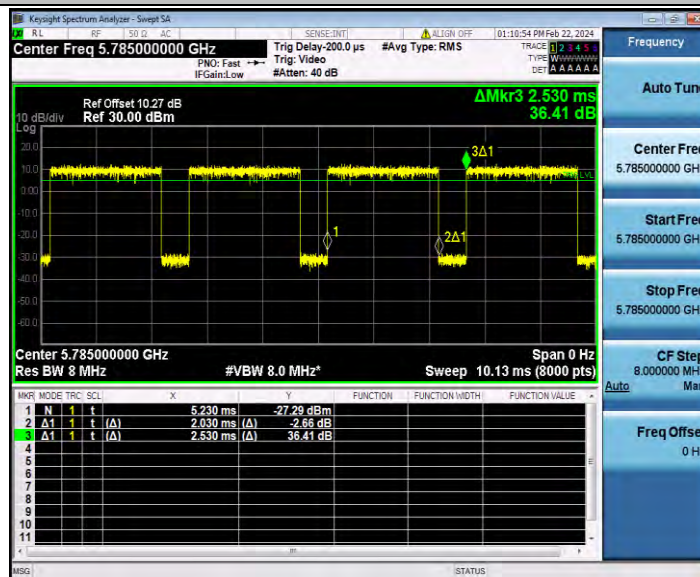
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	2.03	2.53	80.24	0.96	0.49
		5785	2.03	2.53	80.24	0.96	0.49
		5825	2.02	2.52	80.16	0.96	0.50
11N20SISO	Ant1	5745	1.89	2.39	79.08	1.02	0.53
		5785	1.89	2.39	79.08	1.02	0.53
		5825	1.88	2.39	78.66	1.04	0.53
11N40SISO	Ant1	5755	0.93	1.44	64.58	1.90	1.08
		5795	0.93	1.43	65.03	1.87	1.08
11AC20SISO	Ant1	5745	1.90	2.40	79.17	1.01	0.53
		5785	1.89	2.39	79.08	1.02	0.53
		5825	1.90	2.40	79.17	1.01	0.53
11AC40SISO	Ant1	5755	0.94	1.44	65.28	1.85	1.06
		5795	0.93	1.43	65.03	1.87	1.08
11AC80SISO	Ant1	5775	0.46	0.96	47.92	3.19	2.17

Test Graphs

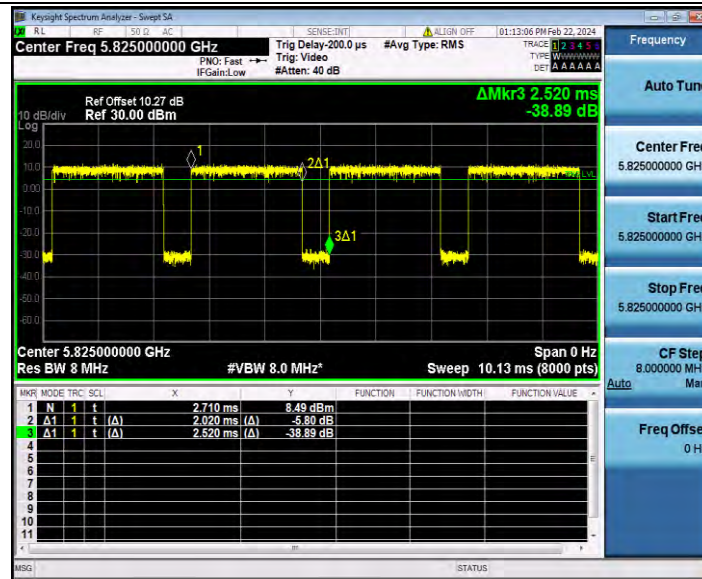
11A_Ant1_5745



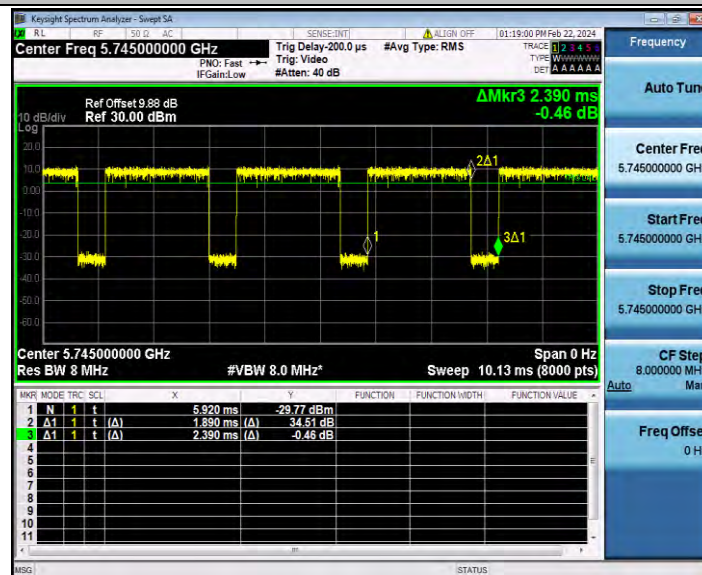
11A_Ant1_5785



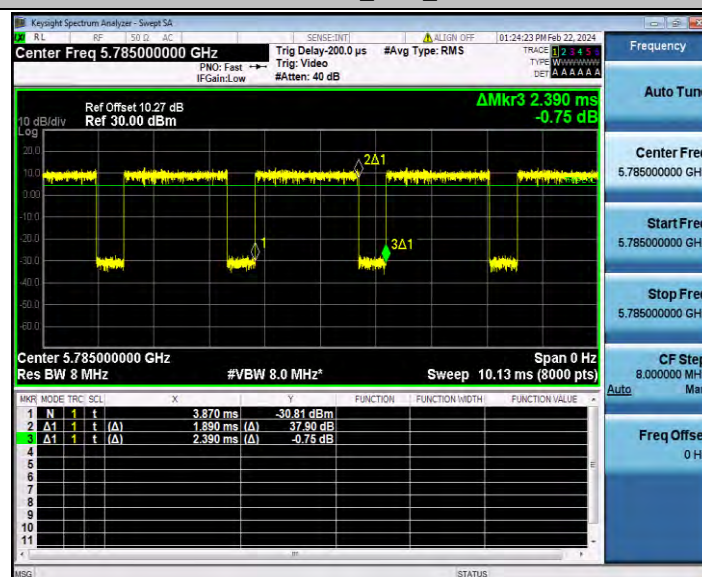
11A_Ant1_5825



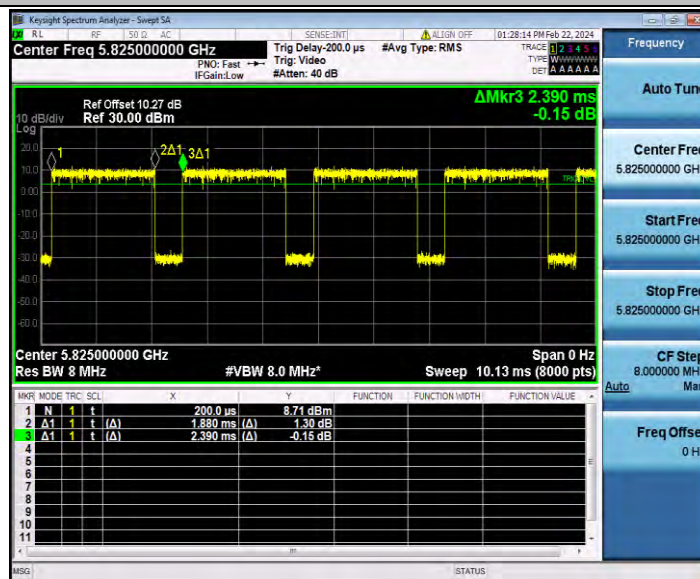
11N20SISO_Ant1_5745



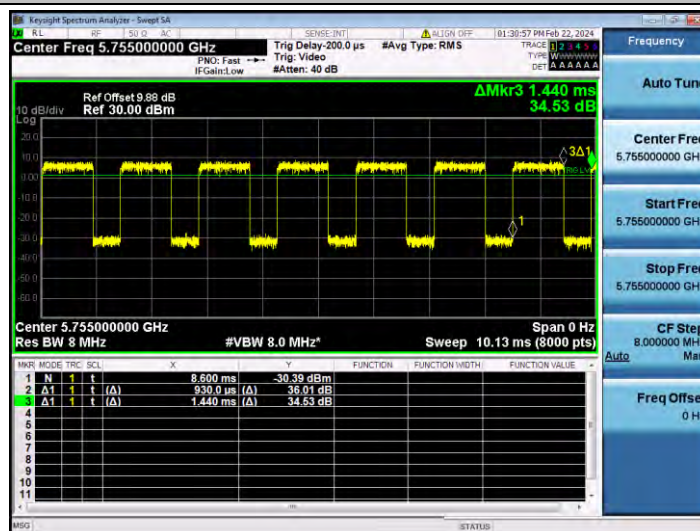
11N20SISO_Ant1_5785



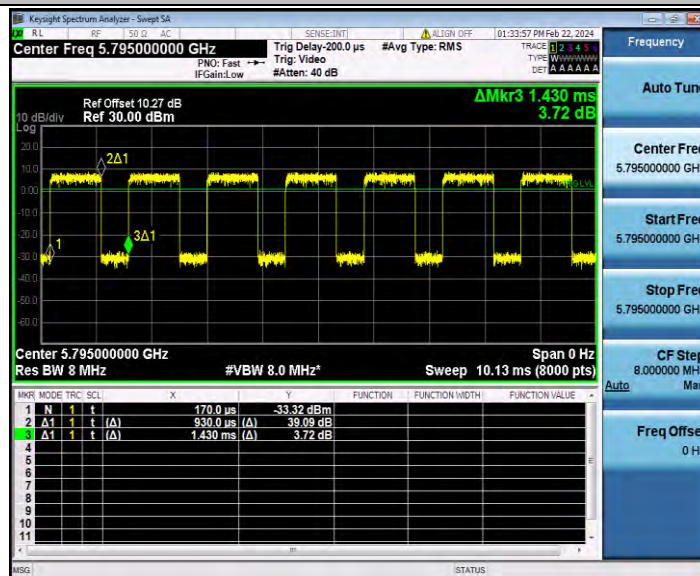
11N20SISO_Ant1_5825



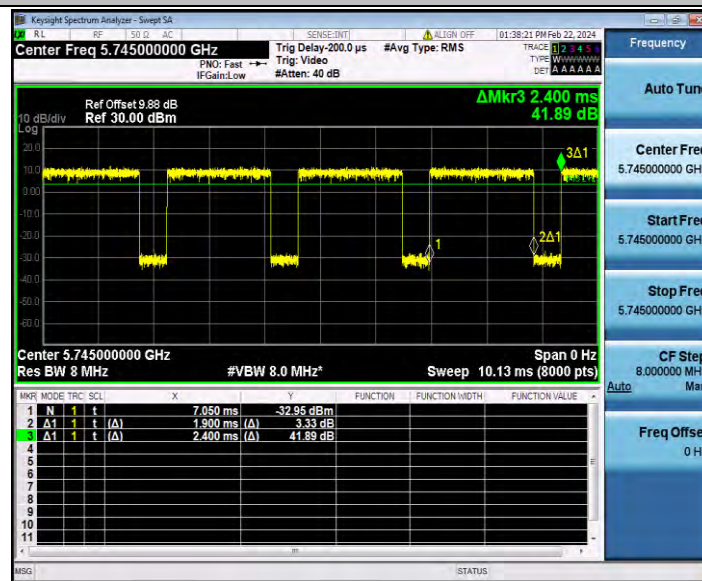
11N40SISO_Ant1_5755



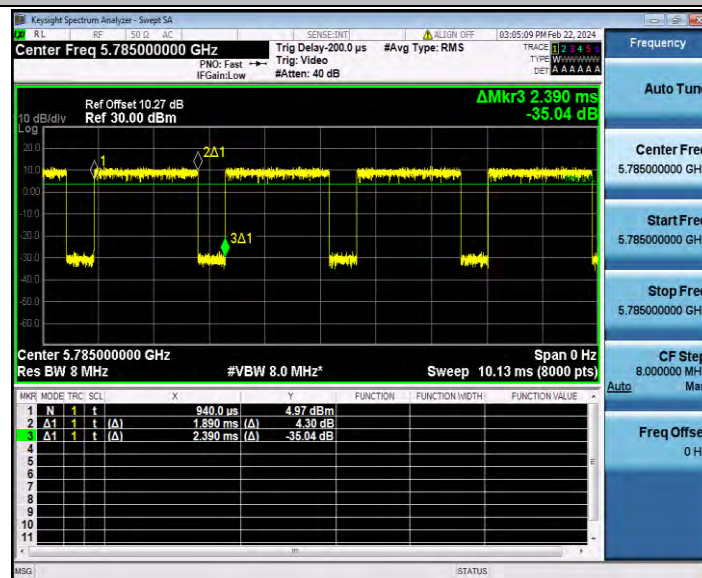
11N40SISO_Ant1_5795



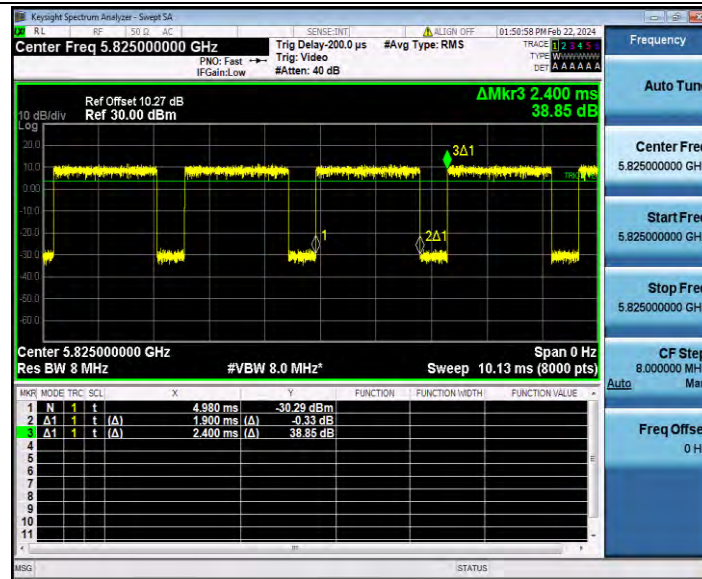
11AC20SISO_Ant1_5745



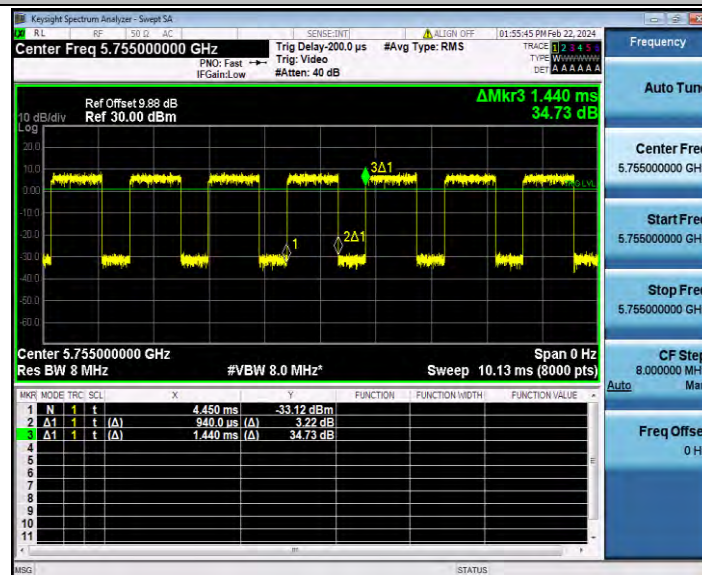
11AC20SISO_Ant1_5785



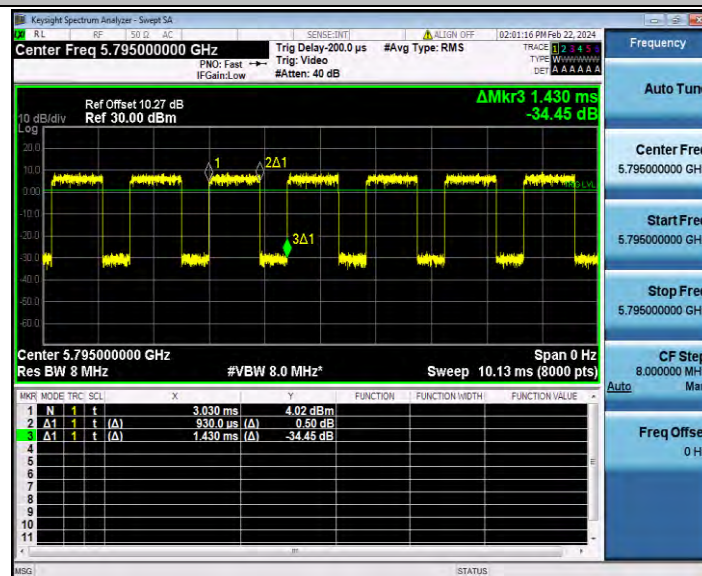
11AC20SISO_Ant1_5825

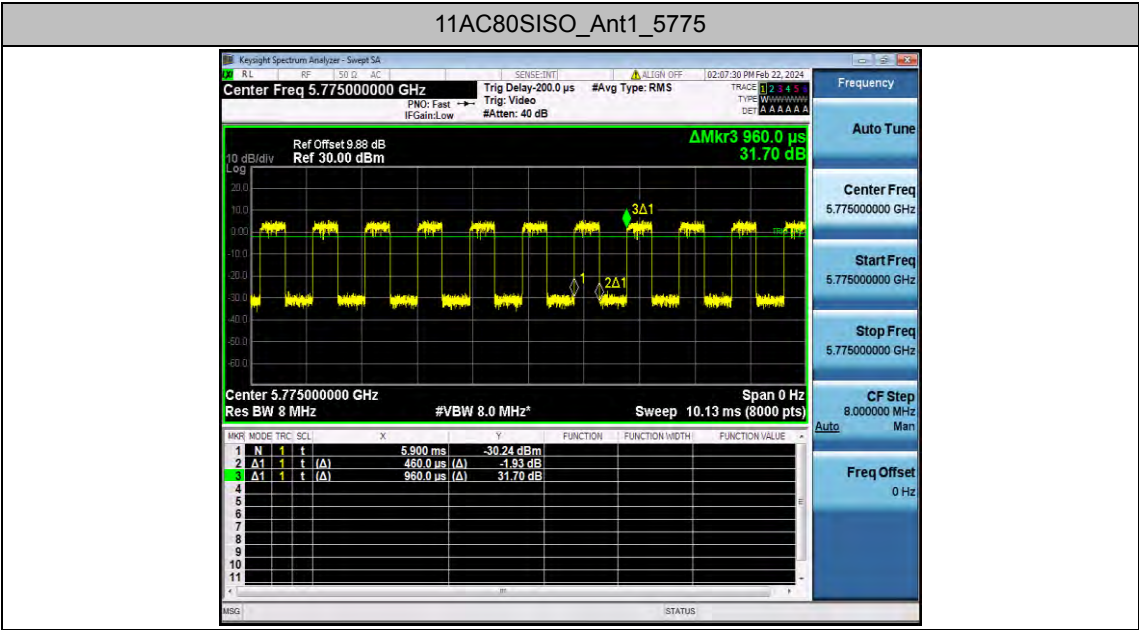


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





Appendix E.4: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	13.00	80.24	0.96	13.96	≤30.00	PASS
		5785	12.20	80.24	0.96	13.16	≤30.00	PASS
		5825	11.34	80.16	0.96	12.30	≤30.00	PASS
11N20SISO	Ant1	5745	11.20	79.08	1.02	12.22	≤30.00	PASS
		5785	11.83	79.08	1.02	12.85	≤30.00	PASS
		5825	11.27	78.66	1.04	12.31	≤30.00	PASS
11N40SISO	Ant1	5755	10.58	64.58	1.90	12.48	≤30.00	PASS
		5795	10.62	65.03	1.87	12.49	≤30.00	PASS
11AC20SISO	Ant1	5745	11.20	79.17	1.01	12.21	≤30.00	PASS
		5785	11.69	79.08	1.02	12.71	≤30.00	PASS
		5825	11.33	79.17	1.01	12.34	≤30.00	PASS
11AC40SISO	Ant1	5755	10.62	65.28	1.85	12.47	≤30.00	PASS
		5795	10.68	65.03	1.87	12.55	≤30.00	PASS
11AC80SISO	Ant1	5775	9.40	47.92	3.19	12.59	≤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	0.18	≤30.00	PASS
		5785	-1.02	≤30.00	PASS
		5825	-1.61	≤30.00	PASS
11N20SISO	Ant1	5745	-1.51	≤30.00	PASS
		5785	-1.09	≤30.00	PASS
		5825	-1.66	≤30.00	PASS
11N40SISO	Ant1	5755	-3.42	≤30.00	PASS
		5795	-3.41	≤30.00	PASS
11AC20SISO	Ant1	5745	-1.58	≤30.00	PASS
		5785	-1.27	≤30.00	PASS
		5825	-1.57	≤30.00	PASS
11AC40SISO	Ant1	5755	-3.45	≤30.00	PASS
		5795	-3.12	≤30.00	PASS
11AC80SISO	Ant1	5775	-7.02	≤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

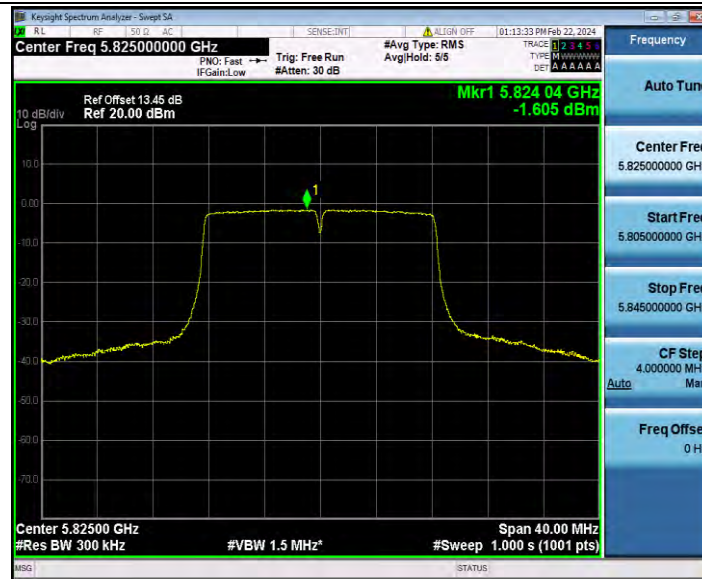
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



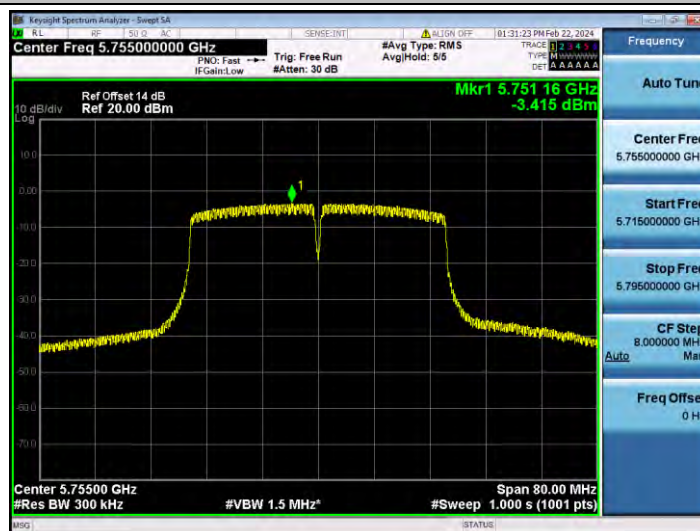
11N20SISO_Ant1_5785



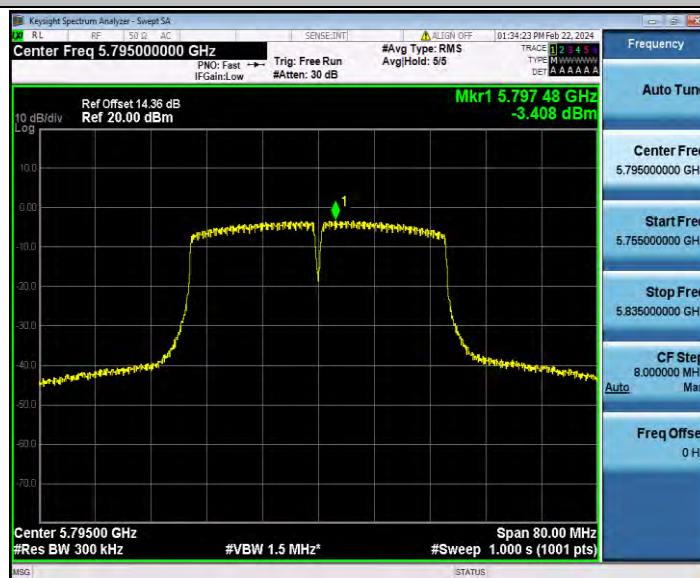
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



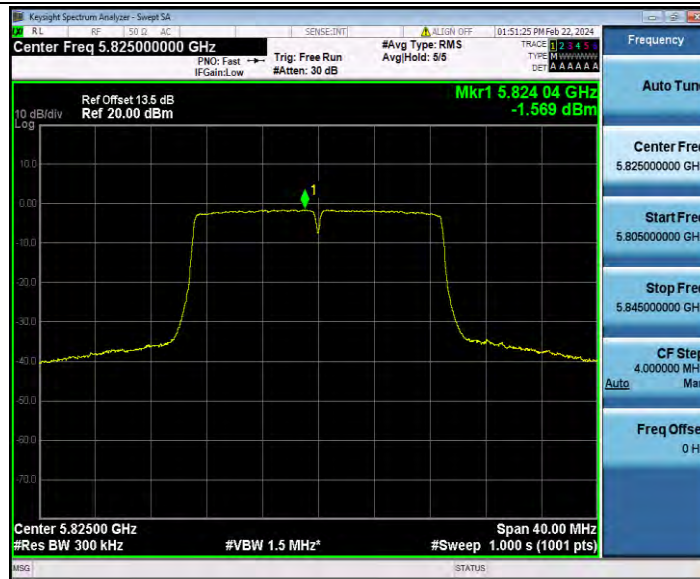
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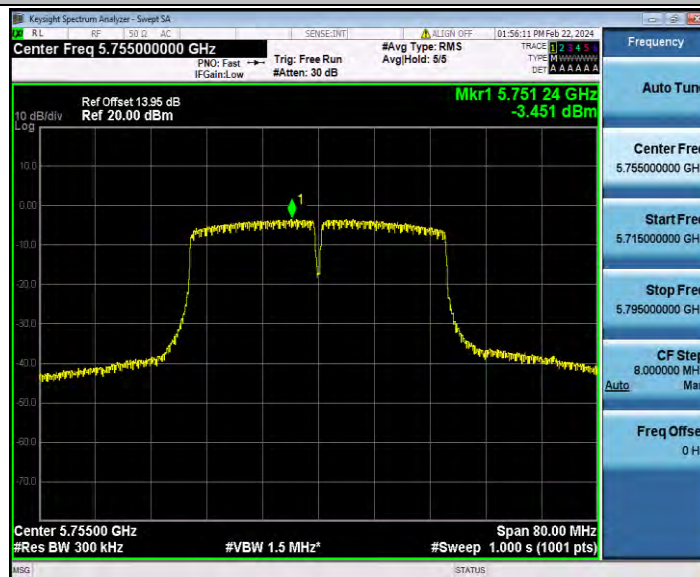
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

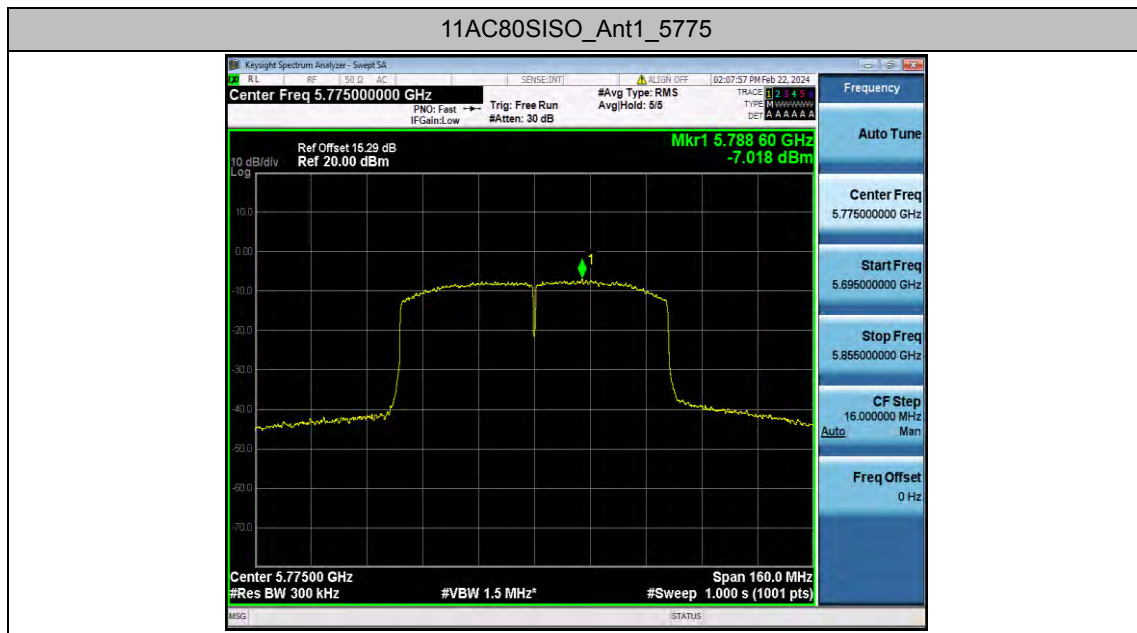


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





Appendix E.6: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-39.49	≤-26.53	PASS
				5700~5720	-27.68	≤15.59	PASS
				5720~5725	-22.77	≤20.01	PASS
				5760~5650	-39.76	≤-27	PASS
		High	5825	5850~5855	-30.76	≤17.88	PASS
				5855~5875	-28.83	≤14.59	PASS
				5875~5925	-40.3	≤-26.41	PASS
				5925~5935	-38.6	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.3	≤-26.62	PASS
				5700~5720	-28.29	≤15.59	PASS
				5720~5725	-28.18	≤15.82	PASS
				5760~5650	-39.68	≤-27	PASS
		High	5825	5850~5855	-30.18	≤17.26	PASS
				5855~5875	-29.72	≤14.41	PASS
				5875~5925	-38.29	≤-25.71	PASS
				5925~5935	-38.68	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.6	≤-26.40	PASS
				5700~5720	-23	≤15.09	PASS
				5720~5725	-22.02	≤16.04	PASS
				5780~5650	-39.6	≤-27	PASS
		High	5795	5850~5855	-37.72	≤16.03	PASS
				5855~5875	-37.01	≤10.43	PASS
				5875~5925	-38.8	≤-26.10	PASS
				5925~5935	-38.35	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-39.59	≤-25.68	PASS
				5700~5720	-29.43	≤14.98	PASS
				5720~5725	-28.7	≤17.39	PASS
				5760~5650	-39.76	≤-27	PASS
		High	5825	5850~5855	-29.62	≤17.57	PASS
				5855~5875	-29.19	≤14.56	PASS
				5875~5925	-39.37	≤-26.51	PASS
				5925~5935	-38.61	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-39.48	≤-26.90	PASS
				5700~5720	-23.85	≤15.47	PASS
				5720~5725	-24.88	≤16.04	PASS
				5780~5650	-39.77	≤-27	PASS

		High	5795	5850~5855	-35.21	≤ 16.41	PASS
				5855~5875	-38.04	≤ 10.02	PASS
				5875~5925	-37.96	≤ -25.24	PASS
				5925~5935	-38.56	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-37.4	≤ -26.46	PASS
				5700~5720	-28.38	≤ 10.09	PASS
				5720~5725	-24.31	≤ 15.65	PASS
				5800~5650	-38.21	≤ -27	PASS
		High	5775	5850~5855	-29.01	≤ 16.68	PASS
				5855~5875	-32.27	≤ 10.92	PASS
				5875~5925	-39.6	≤ -26.87	PASS
				5925~5935	-38.75	≤ -27	PASS

Test Graphs

11A_Ant1_Low_5745



11A_Ant1_High_5825



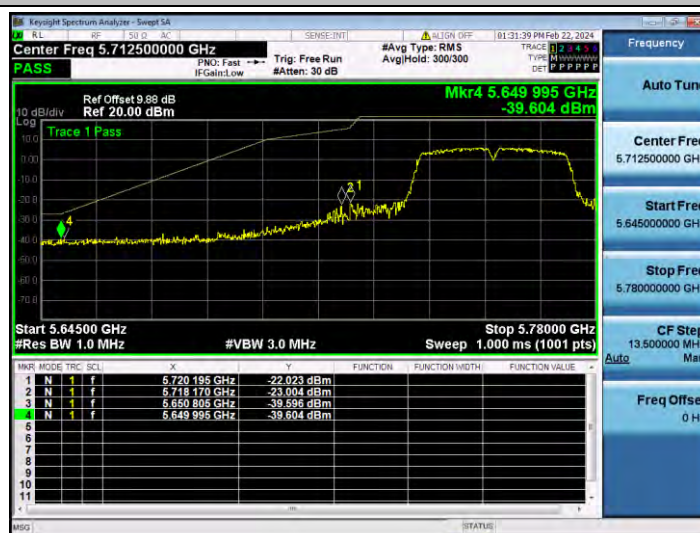
11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825







11AC80SISO_Ant1_High_5775



Appendix E.7: Conducted Spurious Emission

Test Result

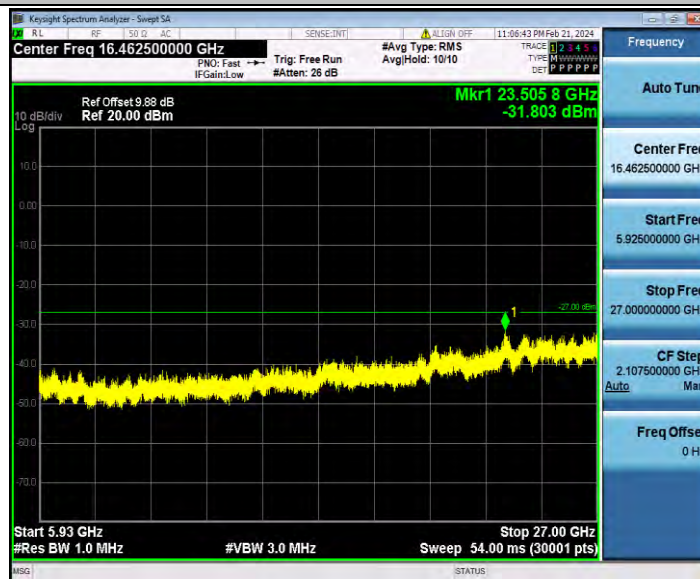
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5361.32	-40.38	≤-27	PASS
			5925~40000	23505.77	-31.8	≤-27	PASS
		5785	30~5650	5555.96	-40.64	≤-27	PASS
			5925~40000	23487.5	-32.32	≤-27	PASS
		5825	30~5650	5610.1	-40.61	≤-27	PASS
			5925~40000	25748.85	-31.97	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	4903.29	-40.4	≤-27	PASS
			5925~40000	26652.97	-32.45	≤-27	PASS
		5785	30~5650	5448.99	-40.48	≤-27	PASS
			5925~40000	26714.79	-31.95	≤-27	PASS
		5825	30~5650	4943.94	-39.25	≤-27	PASS
			5925~40000	26813.84	-31.33	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5456.48	-40.48	≤-27	PASS
			5925~40000	26718.3	-32.69	≤-27	PASS
		5795	30~5650	5459.29	-39.18	≤-27	PASS
			5925~40000	25003.5	-31.41	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	4954.24	-39.61	≤-27	PASS
			5925~40000	24251.82	-32.35	≤-27	PASS
		5785	30~5650	5456.48	-39.38	≤-27	PASS
			5925~40000	26839.83	-31.37	≤-27	PASS
		5825	30~5650	5561.2	-39.33	≤-27	PASS
			5925~40000	24751.3	-31.93	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5566.45	-40.28	≤-27	PASS
			5925~40000	25981.38	-32.03	≤-27	PASS
		5795	30~5650	5492.27	-40.43	≤-27	PASS
			5925~40000	24786.42	-31.98	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5646.82	-39.3	≤-27	PASS
			5925~40000	24217.4	-31.99	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



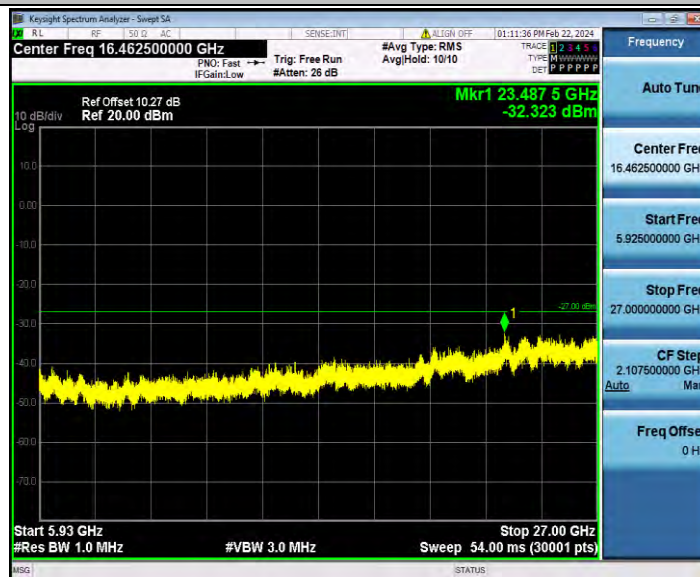
11A_Ant1_5745_5925~40000



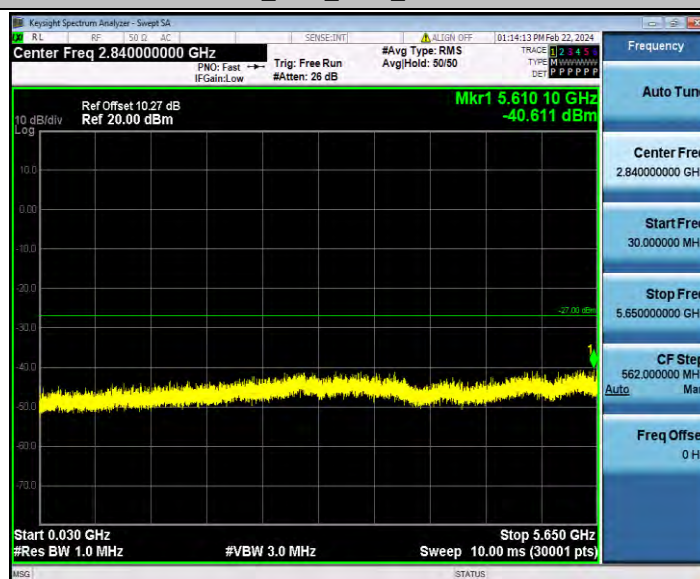
11A_Ant1_5785_30~5650



11A_Ant1_5785_5925~40000



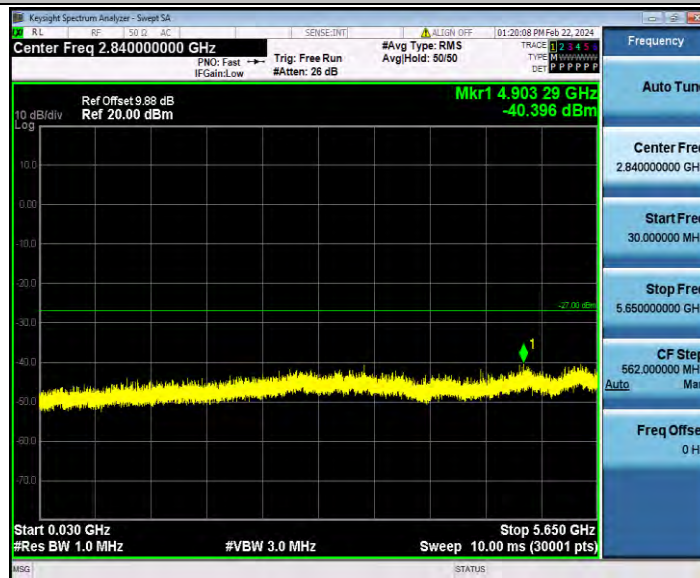
11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~40000



11N20SISO_Ant1_5745_30~5650



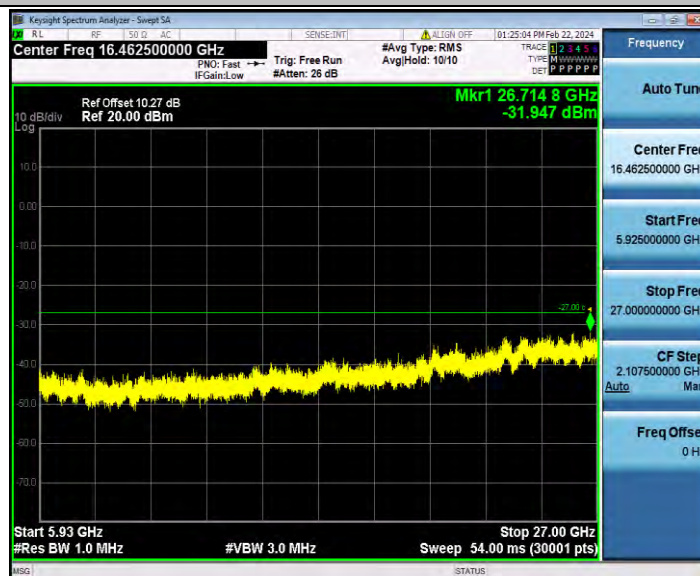
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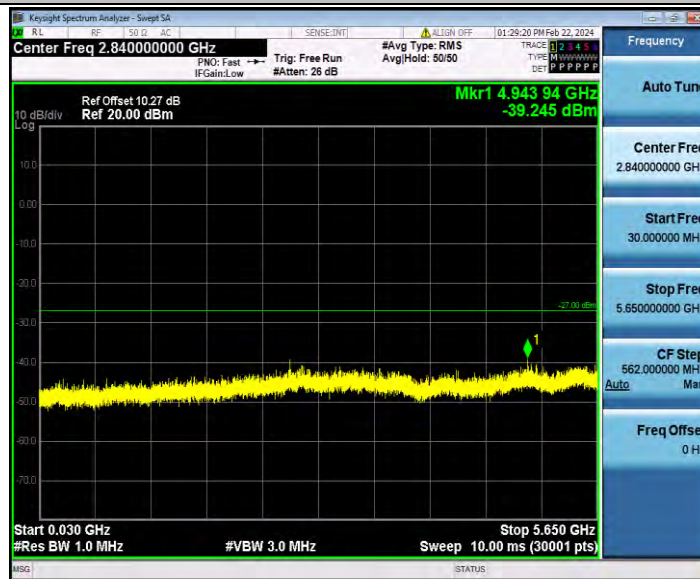
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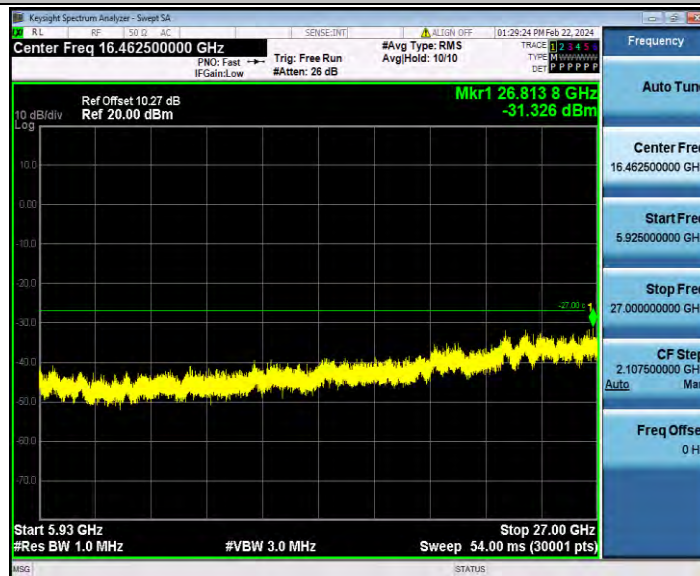
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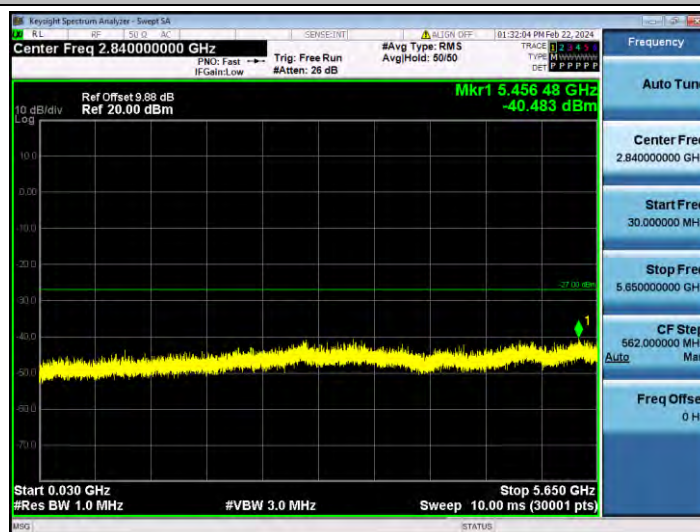
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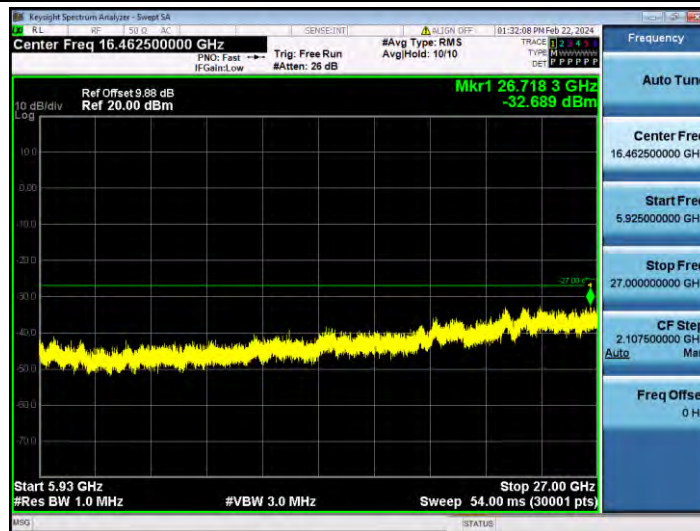
11N20SISO_Ant1_5825_5925~40000



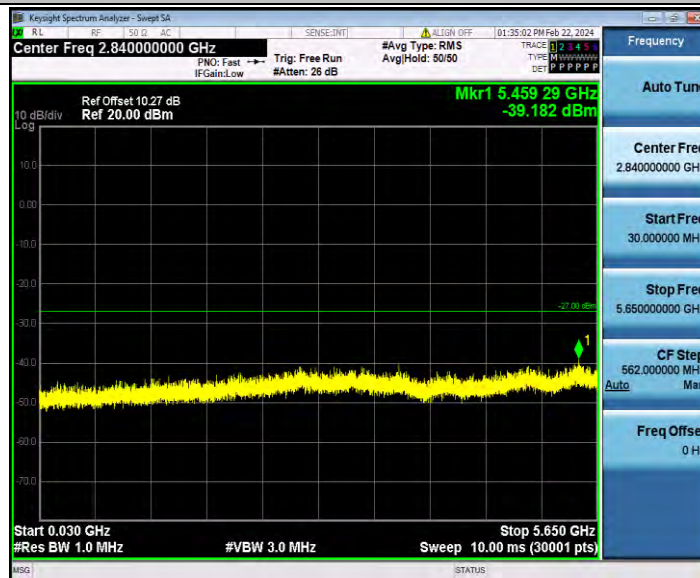
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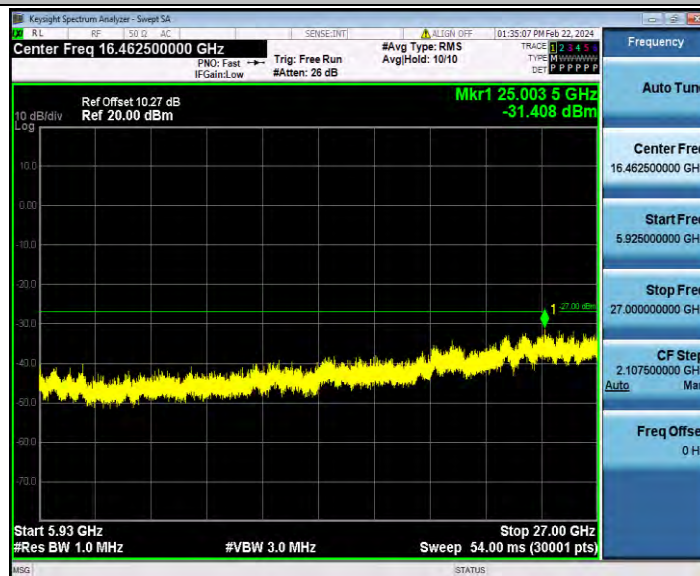
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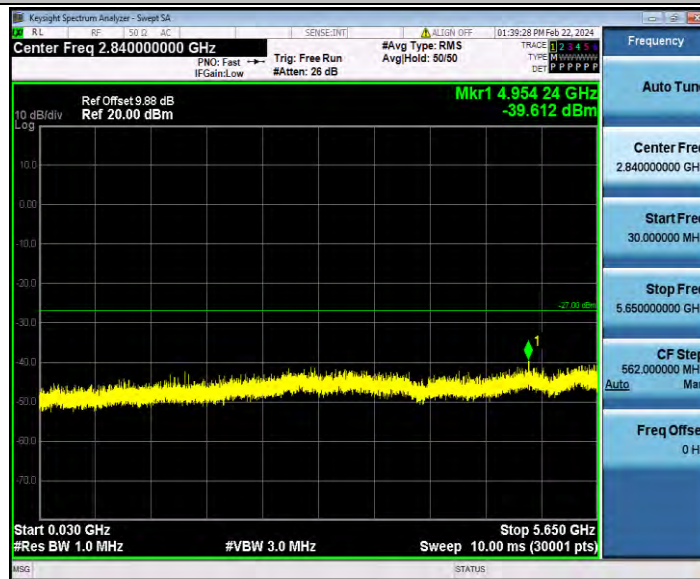
11N40SISO_Ant1_5795_30~5650



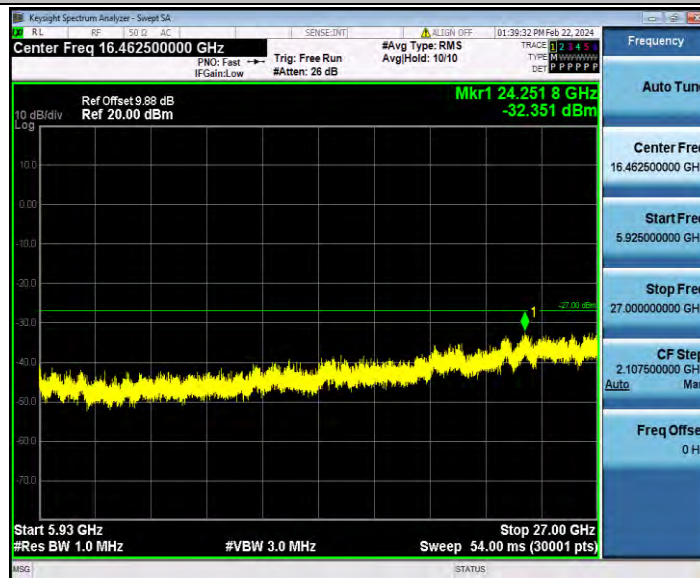
11N40SISO_Ant1_5795_5925~40000



11AC20SISO_Ant1_5745_30~5650



11AC20SISO_Ant1_5745_5925~40000



11AC20SISO_Ant1_5785_30~5650



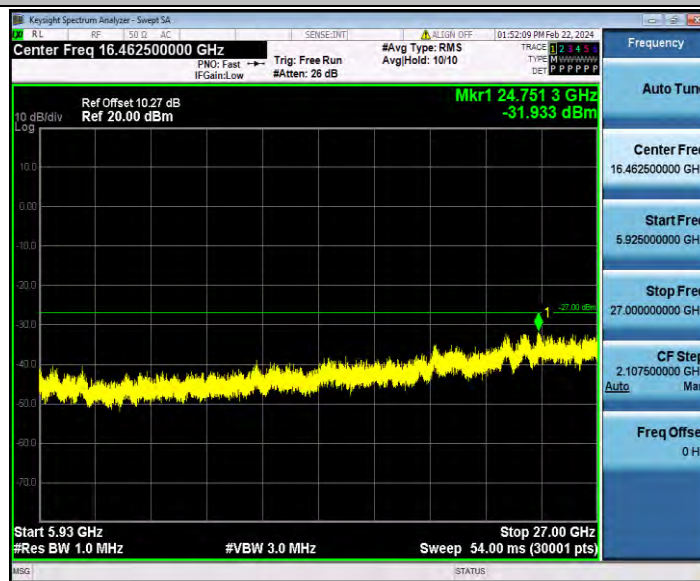
11AC20SISO_Ant1_5785_5925~40000



11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~40000



11AC40SISO_Ant1_5755_30~5650



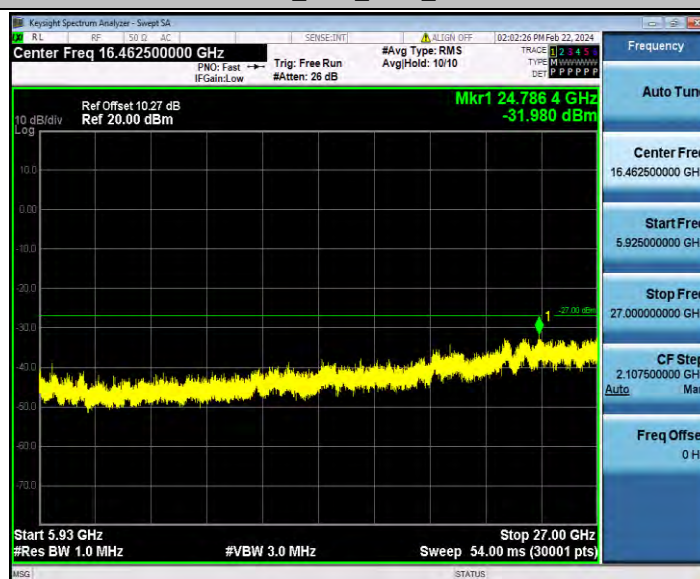
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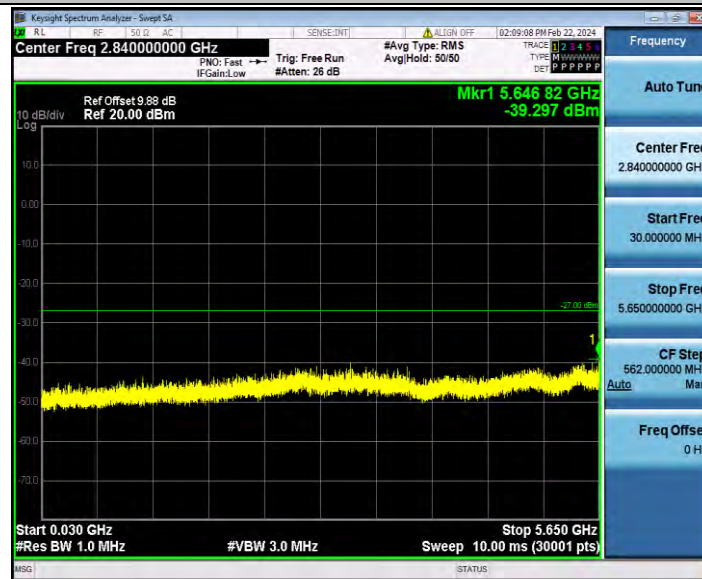
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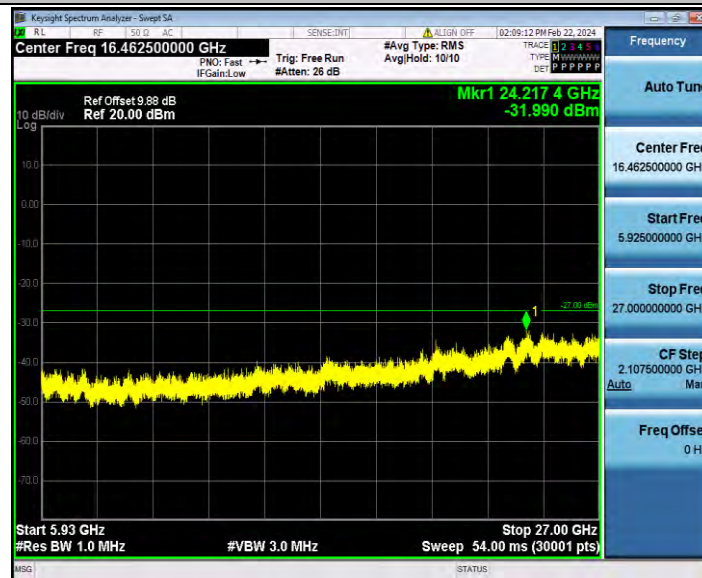
11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000



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	-40.664	≤-27.00	PASS
				Peak	5700.000	-40.38	≤10.00	PASS
				Peak	5720.000	-28.95	≤15.60	PASS
				Peak	5725.000	-24.6	≤27.00	PASS
		High	5825	Peak	5850.000	-27.49	≤27.00	PASS
				Peak	5855.000	-35.26	≤15.60	PASS
				Peak	5875.000	-39.54	≤10.00	PASS
				Peak	5925.000	-38.4	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.344	≤-27.00	PASS
				Peak	5700.000	-39.15	≤10.00	PASS
				Peak	5720.000	-29.37	≤15.60	PASS
				Peak	5725.000	-28.52	≤27.00	PASS
		High	5825	Peak	5850.000	-27.577	≤27.00	PASS
				Peak	5855.000	-35.41	≤15.60	PASS
				Peak	5875.000	-38.3	≤10.00	PASS
				Peak	5925.000	-39.32	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-38.201	≤-27.00	PASS
				Peak	5700.000	-35.77	≤10.00	PASS
				Peak	5720.000	-26.34	≤15.60	PASS
				Peak	5725.000	-24.74	≤27.00	PASS
		High	5795	Peak	5850.000	-33.976	≤27.00	PASS
				Peak	5855.000	-36.91	≤15.60	PASS
				Peak	5875.000	-36.41	≤10.00	PASS
				Peak	5925.000	-38.81	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-40.007	≤-27.00	PASS
				Peak	5700.000	-39.25	≤10.00	PASS
				Peak	5720.000	-30.09	≤15.60	PASS
				Peak	5725.000	-25.43	≤27.00	PASS
		High	5825	Peak	5850.000	-25.857	≤27.00	PASS
				Peak	5855.000	-32.21	≤15.60	PASS
				Peak	5875.000	-39	≤10.00	PASS
				Peak	5925.000	-37.45	≤-27.00	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-39.539	≤-27.00	PASS
				Peak	5700.000	-36.77	≤10.00	PASS
				Peak	5720.000	-22.86	≤15.60	PASS
				Peak	5725.000	-21.34	≤27.00	PASS

		High	5795	Peak	5850.000	-32.323	≤ 27.00	PASS
				Peak	5855.000	-37.38	≤ 15.60	PASS
				Peak	5875.000	-37.82	≤ 10.00	PASS
				Peak	5925.000	-37.42	≤ -27.00	PASS
11AC80SISO	Ant1	Low	5775	Peak	5650.000	-39.248	≤ -27.00	PASS
				Peak	5700.000	-27.76	≤ 10.00	PASS
				Peak	5720.000	-25.34	≤ 15.60	PASS
				Peak	5725.000	-25.88	≤ 27.00	PASS
		High	5775	Peak	5850.000	-28.609	≤ 27.00	PASS
				Peak	5855.000	-31.6	≤ 15.60	PASS
				Peak	5875.000	-33.71	≤ 10.00	PASS
				Peak	5925.000	-38.47	≤ -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

11A_Ant1_Low_5745_Peak



11A_Ant1_High_5825_Peak



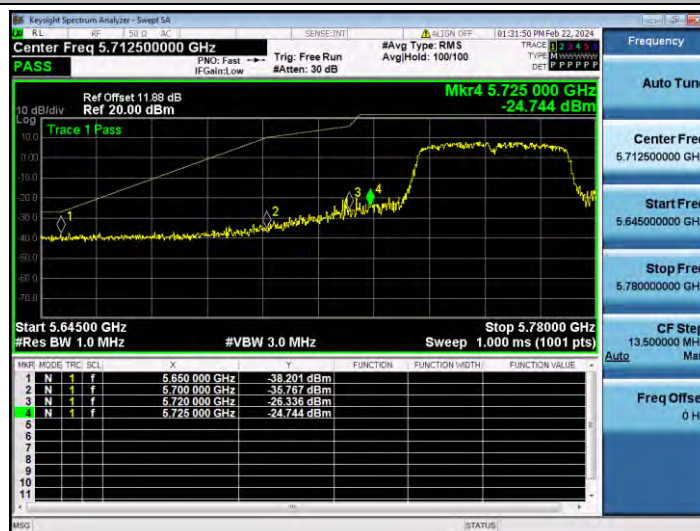
11N20SISO_Ant1_Low_5745_Peak



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

