

Case No. : <u>GTS20221206017-1-2</u>
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.1.3</u> Test Engineer: <u>Jenny zeng</u>

Appendix C.1: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.697	5736.724	5753.421	---	---
		5785	16.769	5776.682	5793.451	---	---
		5825	16.668	5816.667	5833.335	---	---
11N20SISO	Ant1	5745	17.712	5736.180	5753.892	---	---
		5785	17.736	5776.160	5793.896	---	---
		5825	17.679	5816.154	5833.833	---	---
11N40SISO	Ant1	5755	36.687	5736.888	5773.575	---	---
		5795	36.540	5776.856	5813.396	---	---
11AC20SISO	Ant1	5745	17.733	5736.130	5753.863	---	---
		5785	17.703	5776.194	5793.897	---	---
		5825	17.657	5816.198	5833.855	---	---
11AC40SISO	Ant1	5755	36.347	5736.849	5773.196	---	---
		5795	36.322	5776.836	5813.158	---	---
11AC80SISO	Ant1	5775	75.824	5737.200	5813.024	---	---

Test Graphs

11A_Ant1_5745



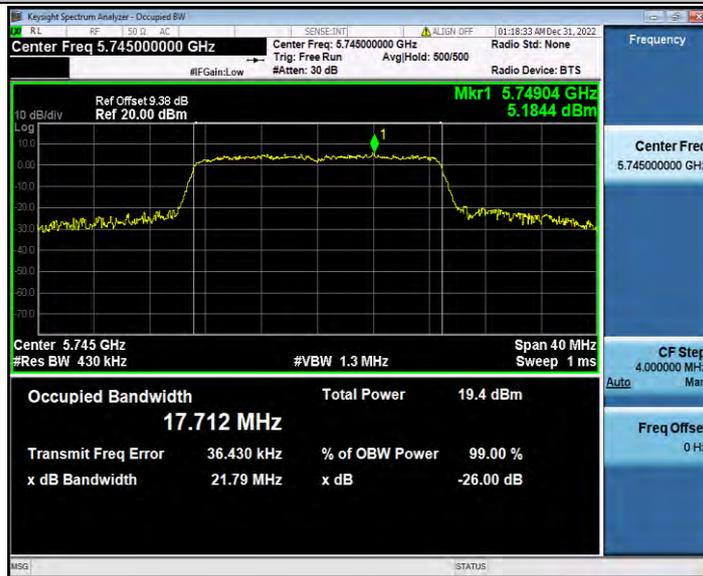
11A_Ant1_5785



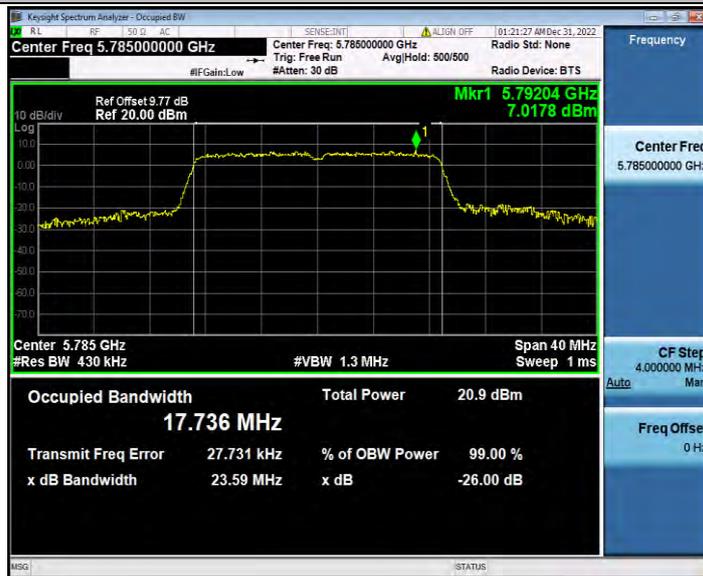
11A_Ant1_5825



11N20SISO_Ant1_5745



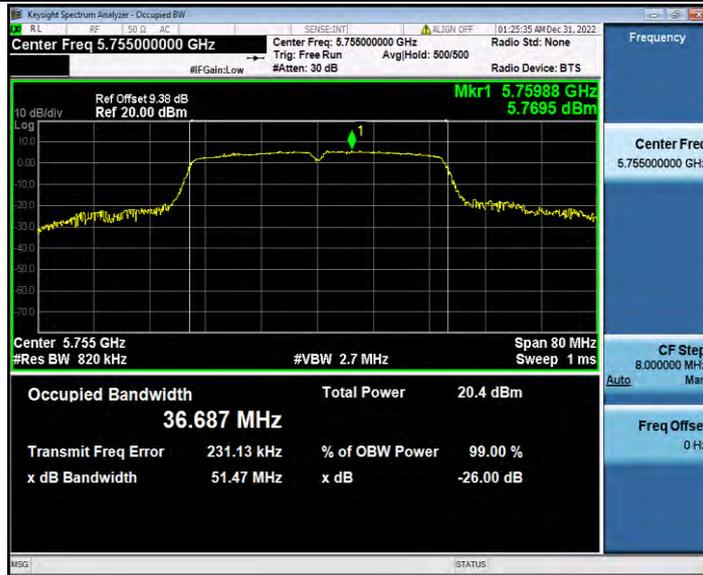
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



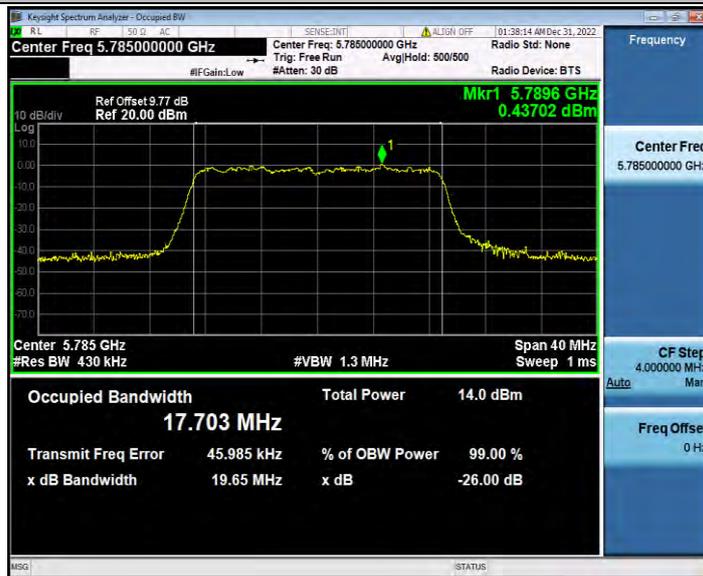
11N40SISO_Ant1_5795



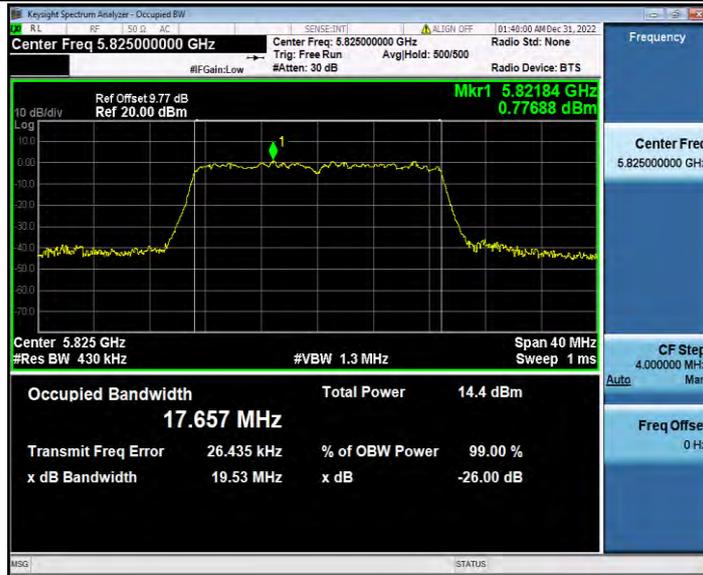
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



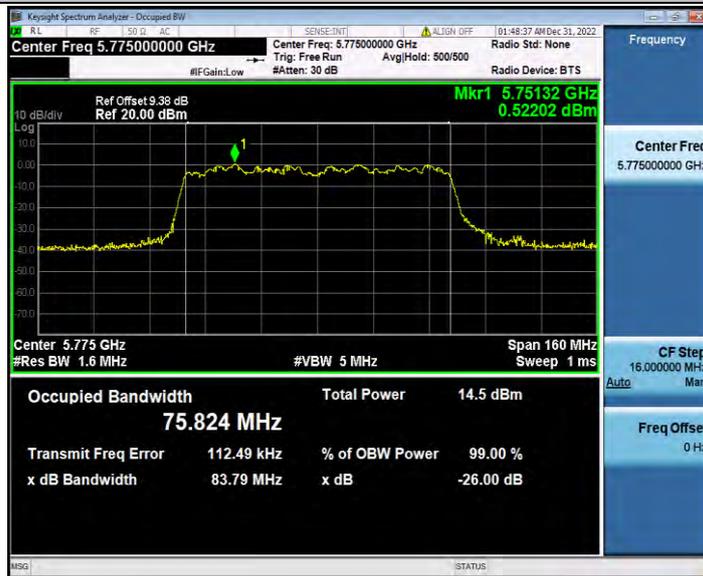
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



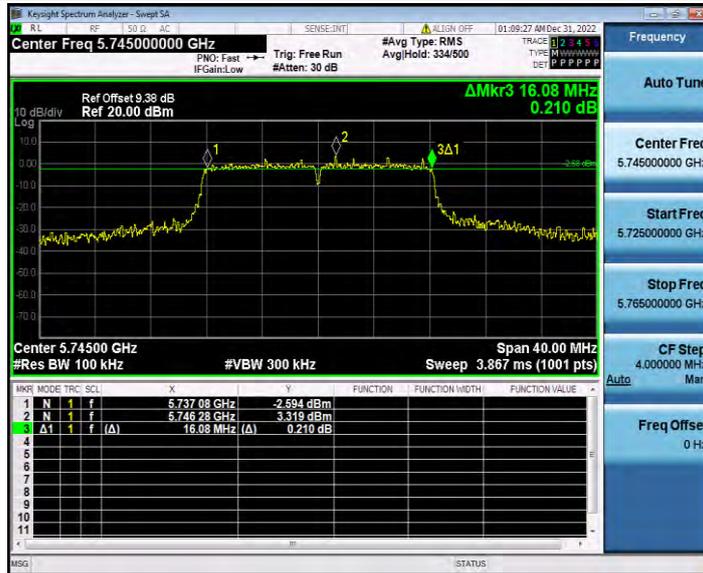
Appendix C.2: Min emission bandwidth

Test Result B4

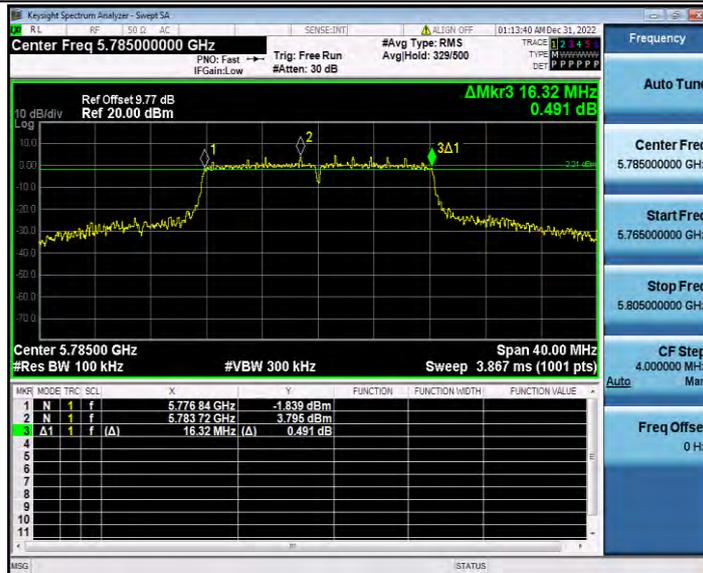
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.080	5737.080	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.560	5736.240	5753.800	0.5	PASS
		5785	16.920	5776.480	5793.400	0.5	PASS
		5825	17.520	5816.240	5833.760	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.480	5772.600	0.5	PASS
		5795	35.120	5777.480	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	17.640	5736.200	5753.840	0.5	PASS
		5785	17.600	5776.240	5793.840	0.5	PASS
		5825	17.560	5816.200	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	36.240	5736.840	5773.080	0.5	PASS
		5795	35.760	5776.840	5812.600	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4

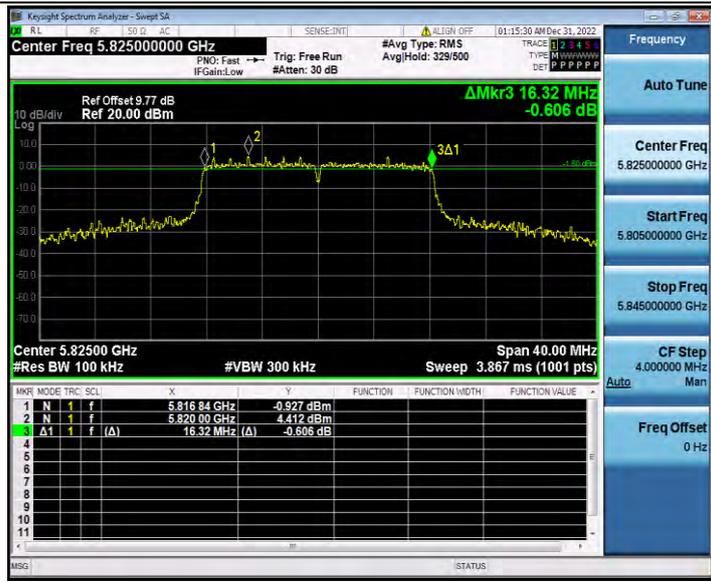
11A_Ant1_5745



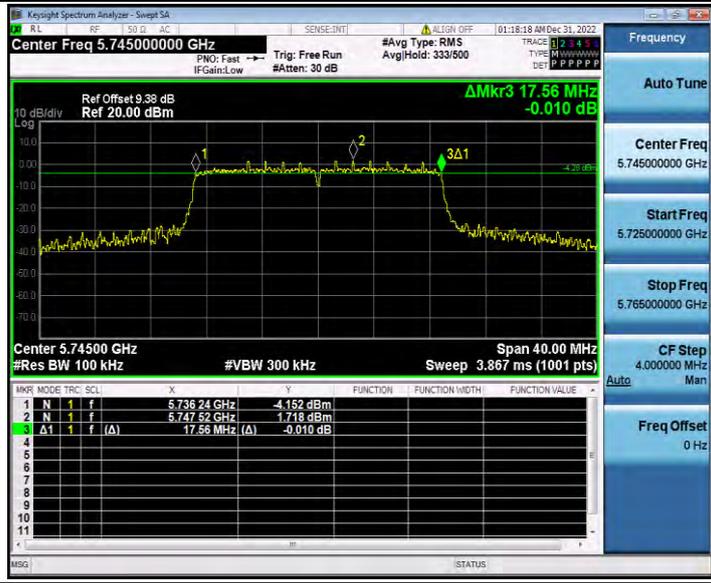
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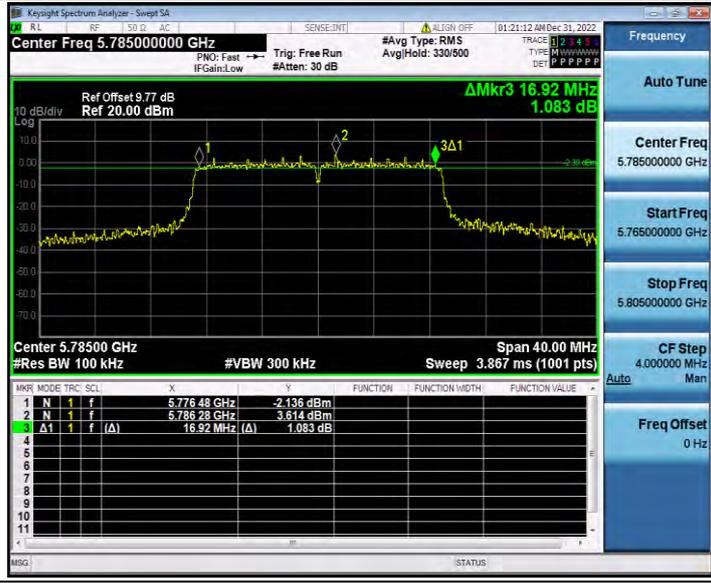
11A_Ant1_5825



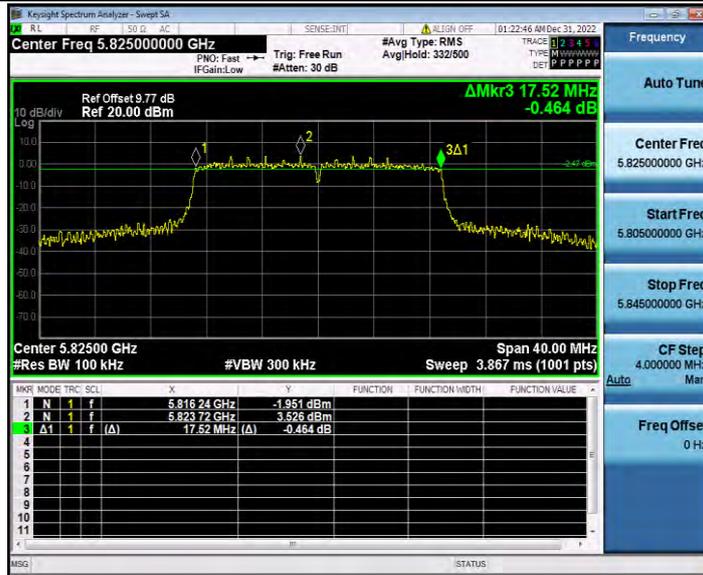
11N20SISO_Ant1_5745



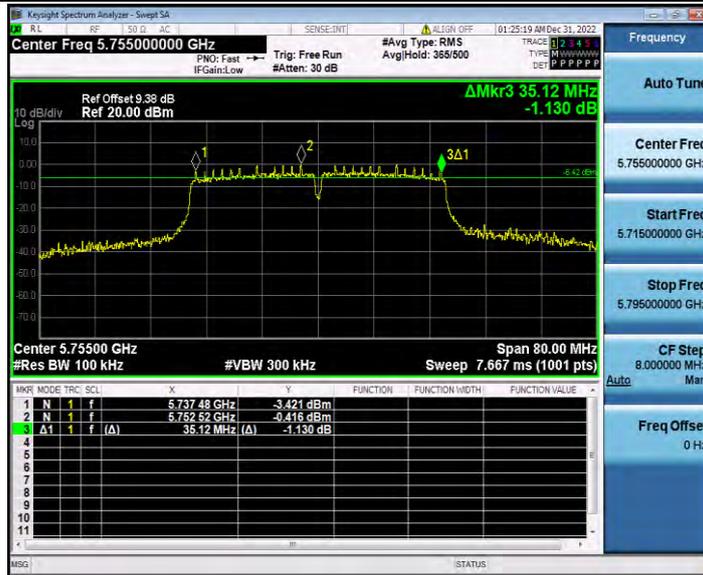
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



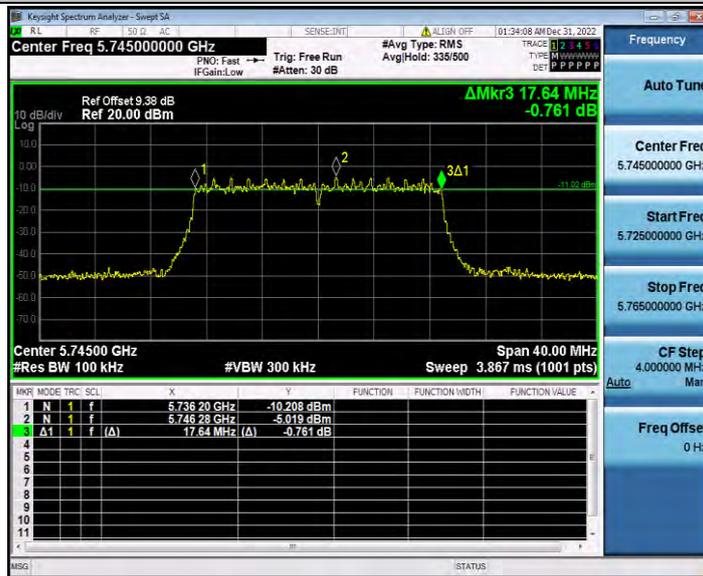
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



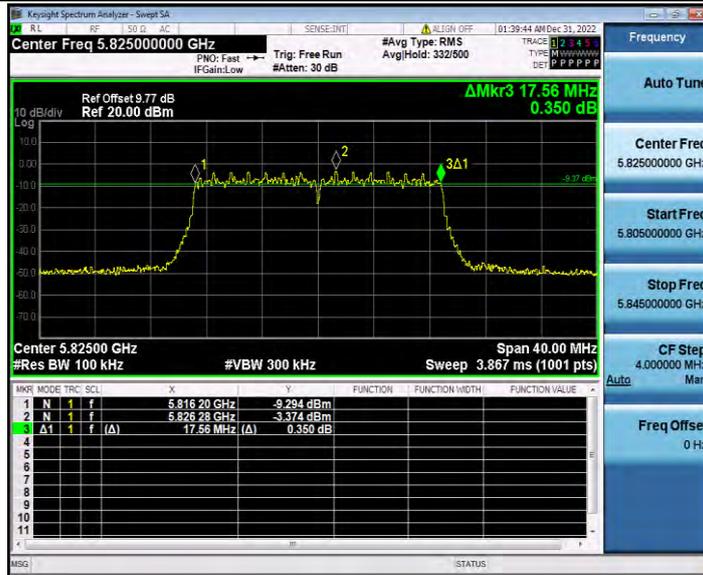
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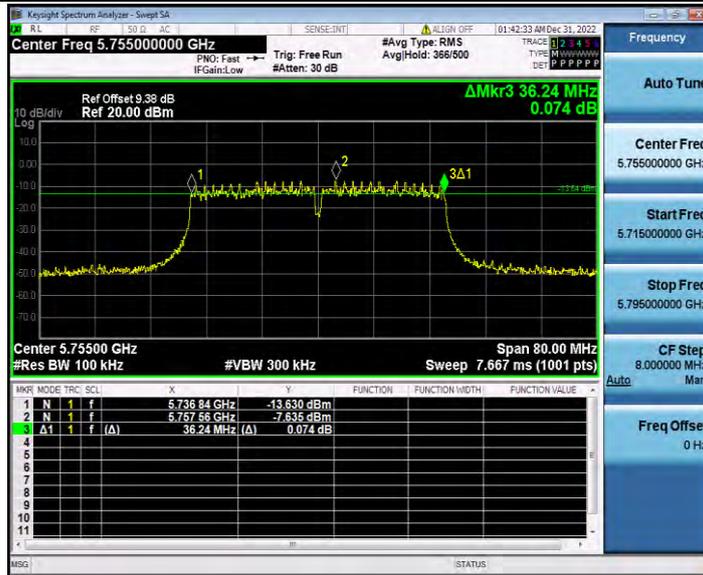
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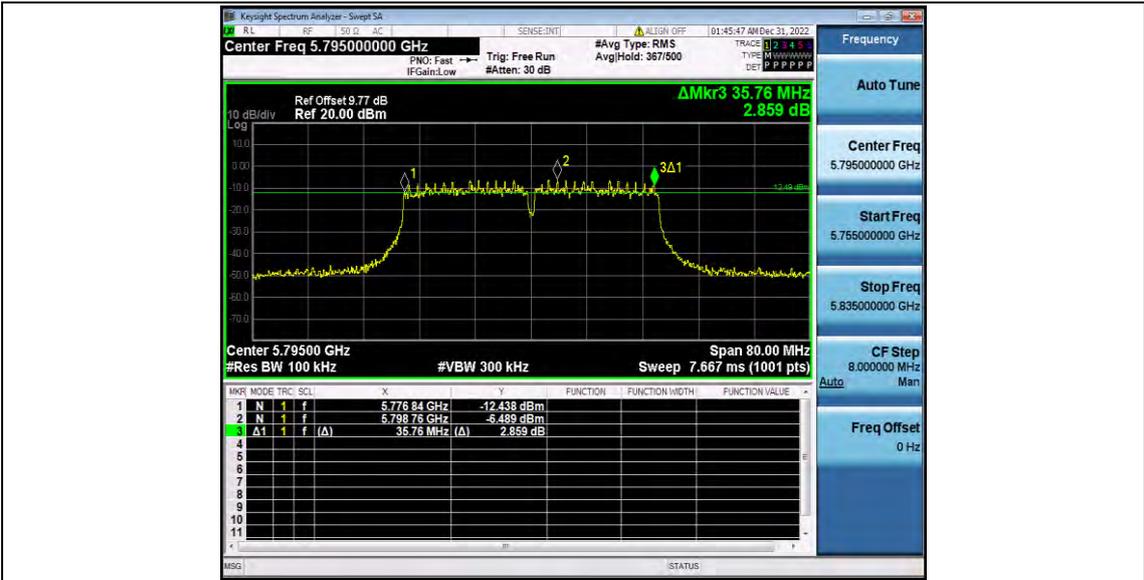
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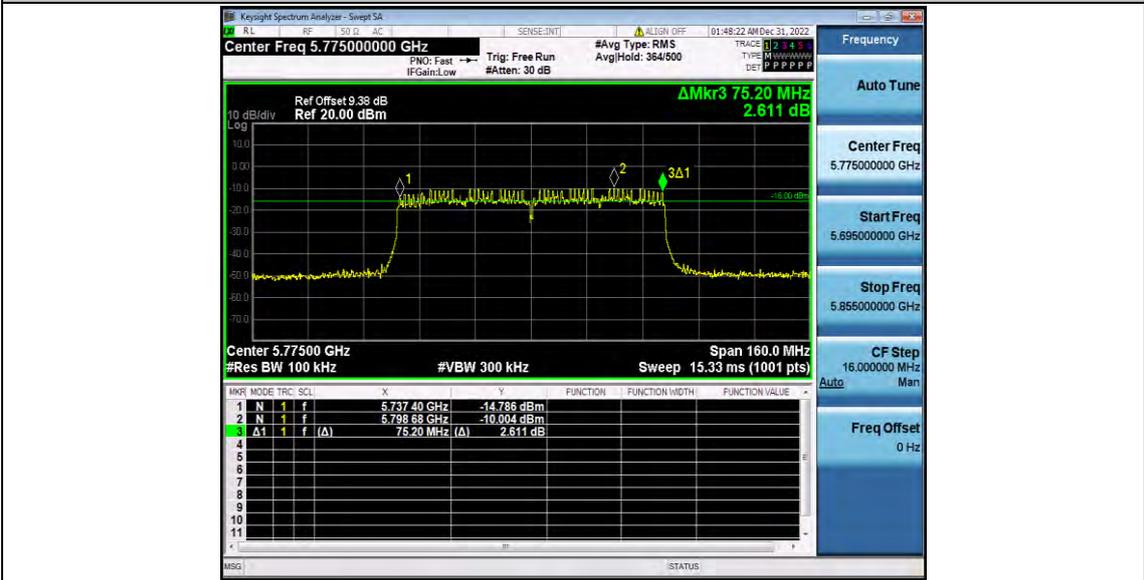
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



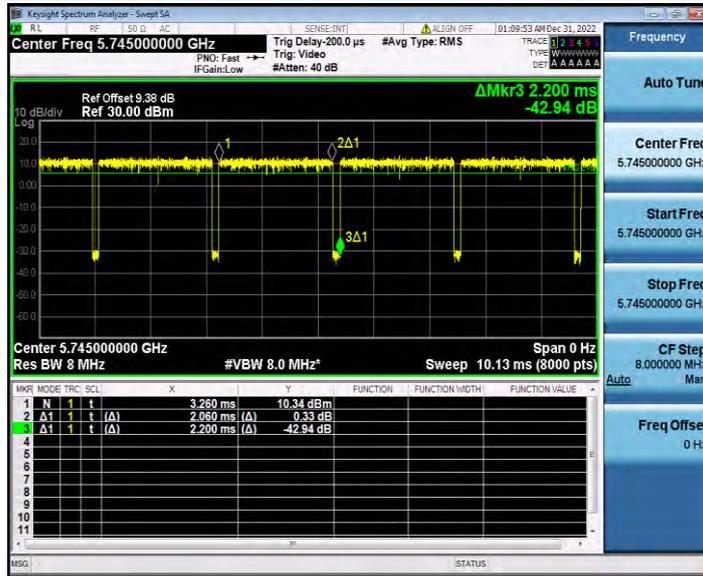
Appendix C.3: Duty Cycle

Test Result

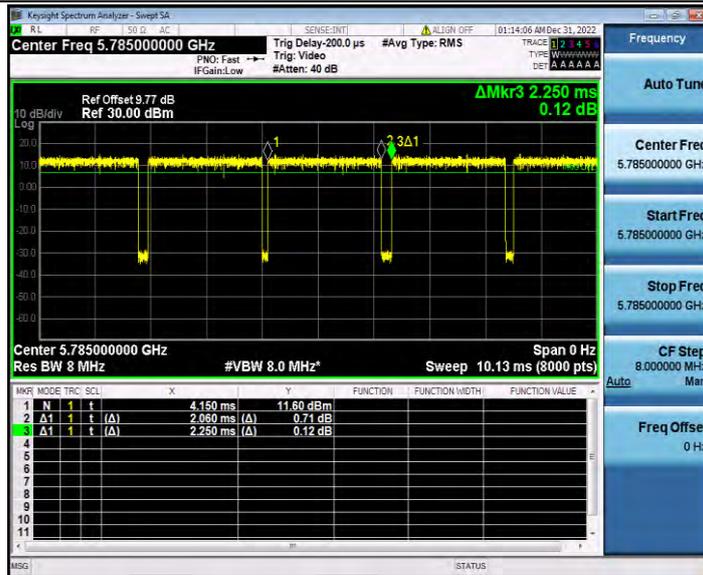
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	2.06	2.20	93.64
		5785	2.06	2.25	91.56
		5825	2.06	2.27	90.75
11N20SISO	Ant1	5745	1.92	2.07	92.75
		5785	1.92	2.13	90.14
		5825	1.92	2.13	90.14
11N40SISO	Ant1	5755	0.95	1.18	80.51
		5795	0.94	1.17	80.34
11AC20SISO	Ant1	5745	0.20	0.45	44.44
		5785	0.20	0.45	44.44
		5825	0.20	0.46	43.48
11AC40SISO	Ant1	5755	0.11	0.36	30.56
		5795	0.12	0.37	32.43
11AC80SISO	Ant1	5775	0.07	0.33	21.21

Test Graphs

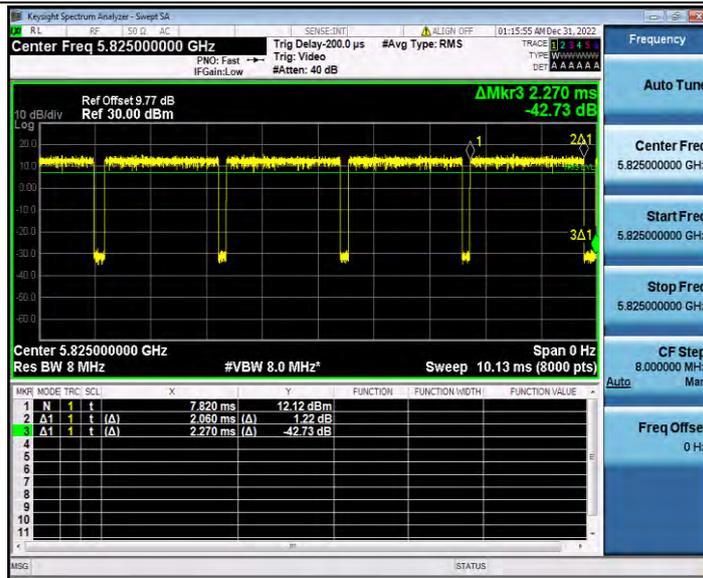
11A_Ant1_5745



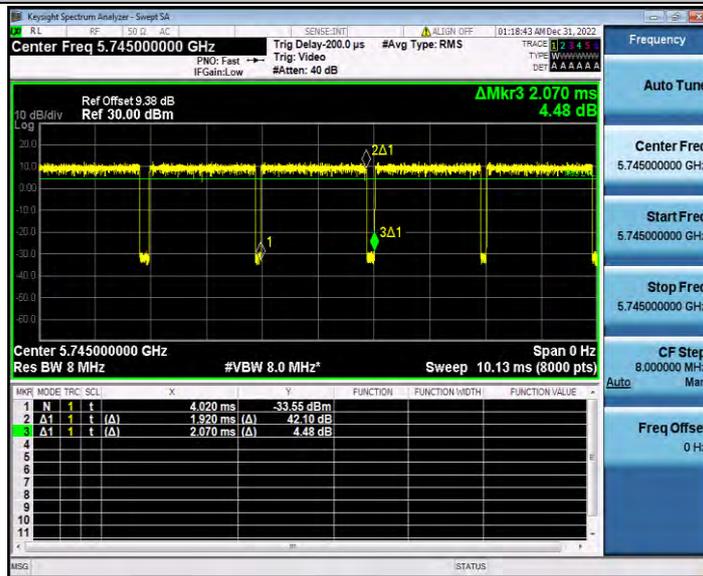
11A_Ant1_5785



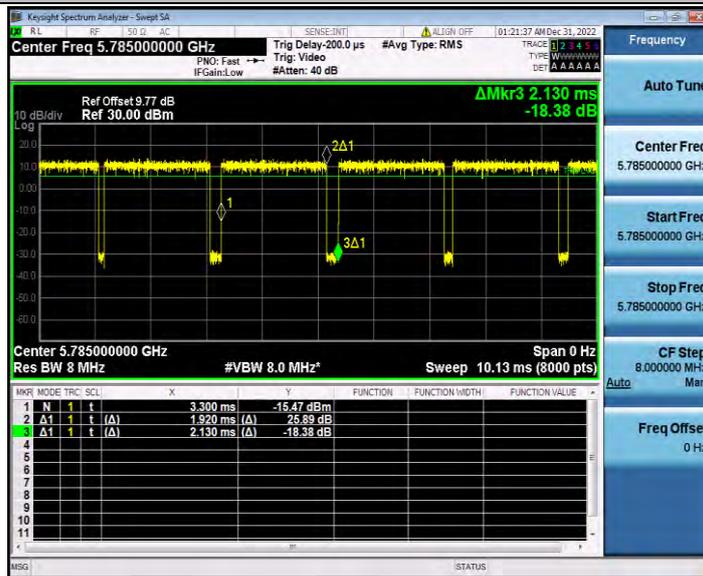
11A_Ant1_5825



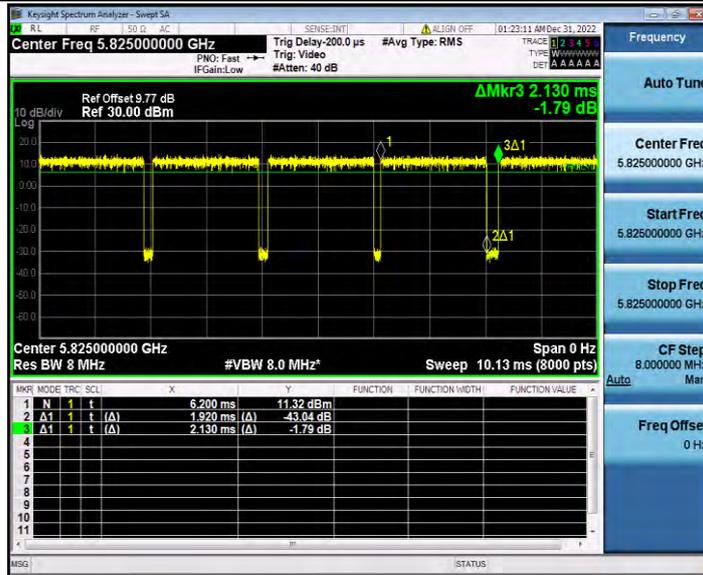
11N20SISO_Ant1_5745



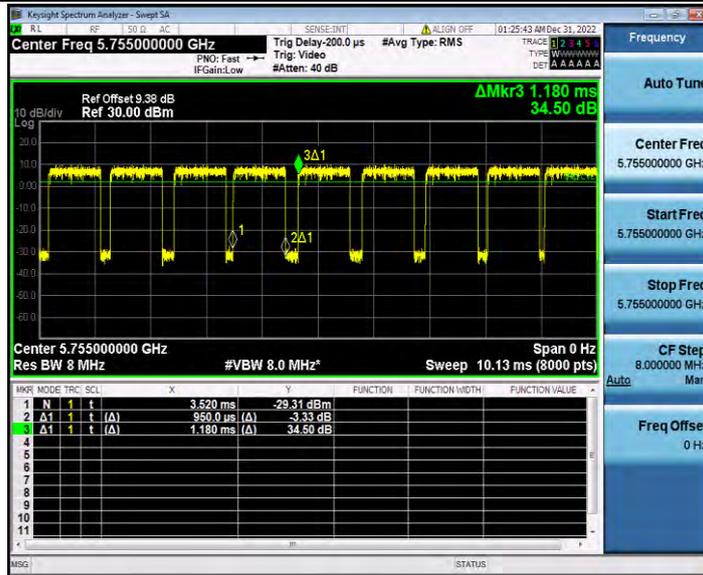
11N20SISO_Ant1_5785



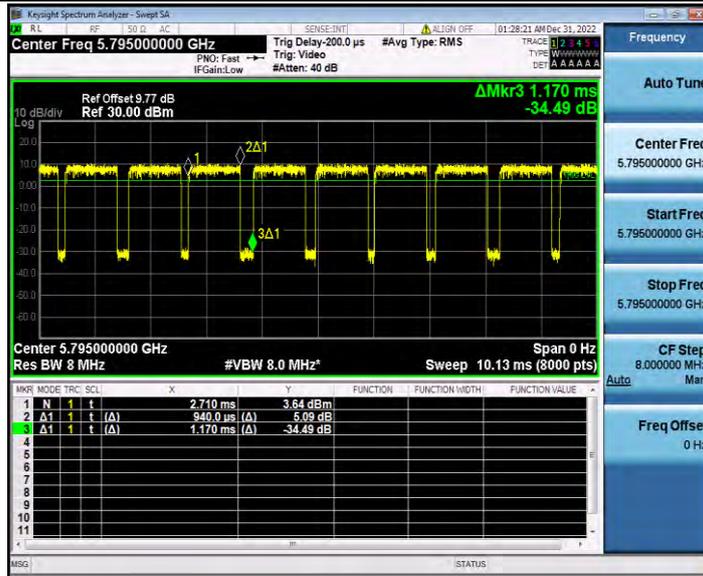
11N20SISO_Ant1_5825



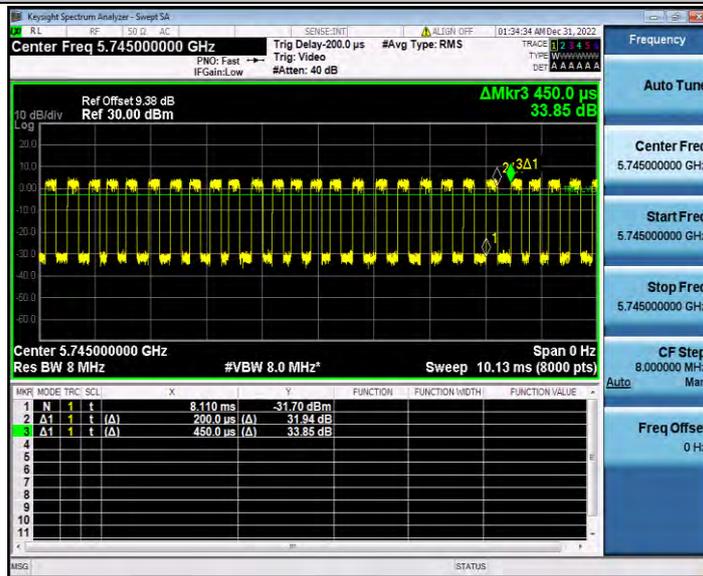
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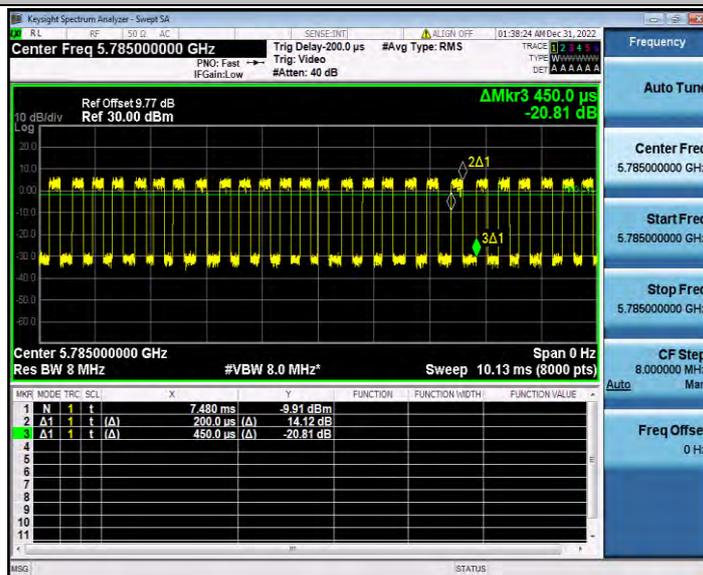
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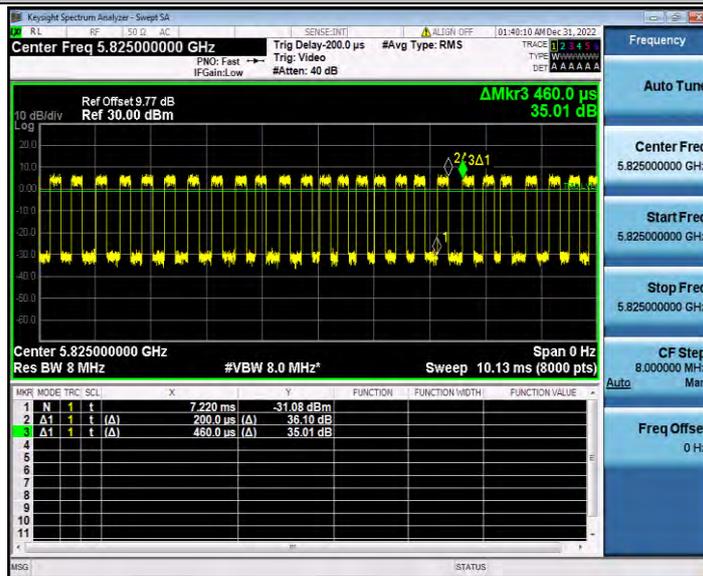
11AC20SISO_Ant1_5745



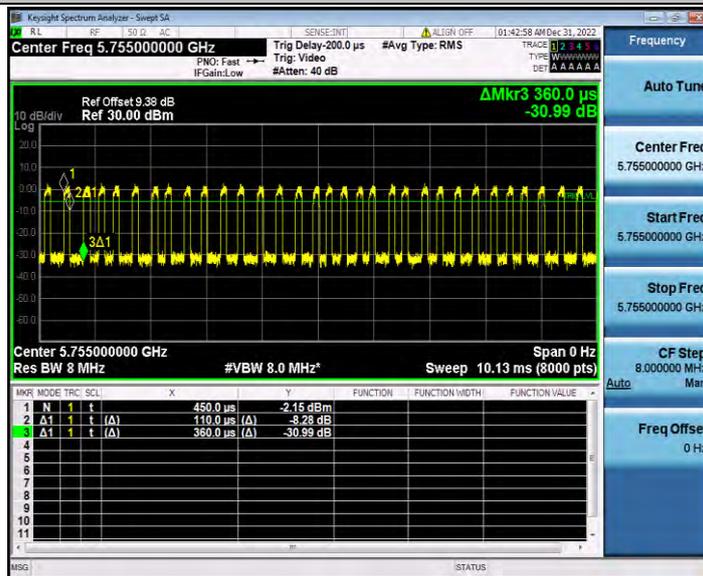
11AC20SISO_Ant1_5785



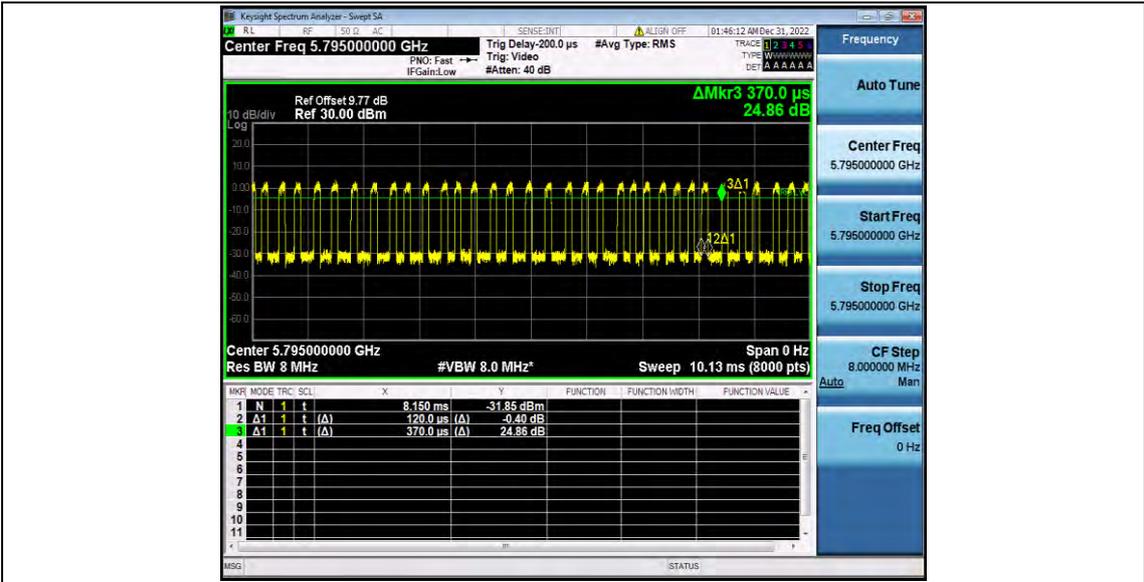
11AC20SISO_Ant1_5825



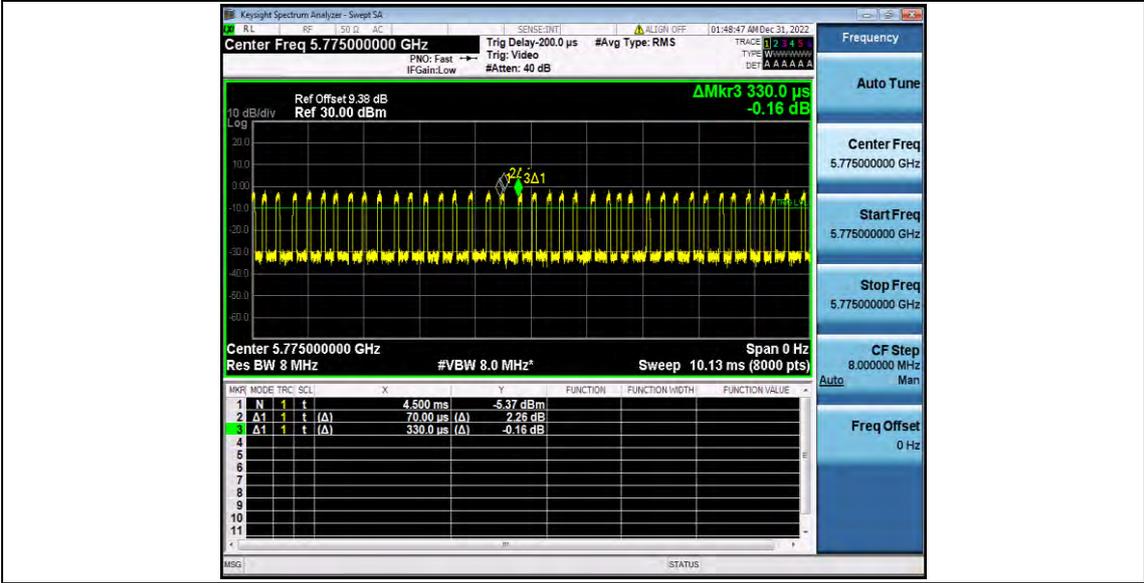
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix C.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	13.39	93.64	0.29	13.68	≤30.00	PASS
		5785	14.69	91.56	0.38	15.07	≤30.00	PASS
		5825	15.22	90.75	0.42	15.64	≤30.00	PASS
11N20SISO	Ant1	5745	12.41	92.75	0.33	12.74	≤30.00	PASS
		5785	13.90	90.14	0.45	14.35	≤30.00	PASS
		5825	14.44	90.14	0.45	14.89	≤30.00	PASS
11N40SISO	Ant1	5755	12.54	80.51	0.94	13.48	≤30.00	PASS
		5795	13.49	80.34	0.95	14.44	≤30.00	PASS
11AC20SIS O	Ant1	5745	2.98	44.44	3.52	6.50	≤30.00	PASS
		5785	4.37	44.44	3.52	7.89	≤30.00	PASS
		5825	4.86	43.48	3.62	8.48	≤30.00	PASS
11AC40SIS O	Ant1	5755	1.67	30.56	5.15	6.82	≤30.00	PASS
		5795	3.06	32.43	4.89	7.95	≤30.00	PASS
11AC80SIS O	Ant1	5775	1.12	21.21	6.73	7.85	≤30.00	PASS

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

Appendix C.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-0.27	≤30.00	PASS
		5785	1.05	≤30.00	PASS
		5825	1.67	≤30.00	PASS
11N20SISO	Ant1	5745	-1.65	≤30.00	PASS
		5785	-0.06	≤30.00	PASS
		5825	0.53	≤30.00	PASS
11N40SISO	Ant1	5755	-3.25	≤30.00	PASS
		5795	-2.37	≤30.00	PASS
11AC20SISO	Ant1	5745	-6.91	≤30.00	PASS
		5785	-5.72	≤30.00	PASS
		5825	-4.8	≤30.00	PASS
11AC40SISO	Ant1	5755	-8.55	≤30.00	PASS
		5795	-7.42	≤30.00	PASS
11AC80SISO	Ant1	5775	-10.4	≤30.00	PASS

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

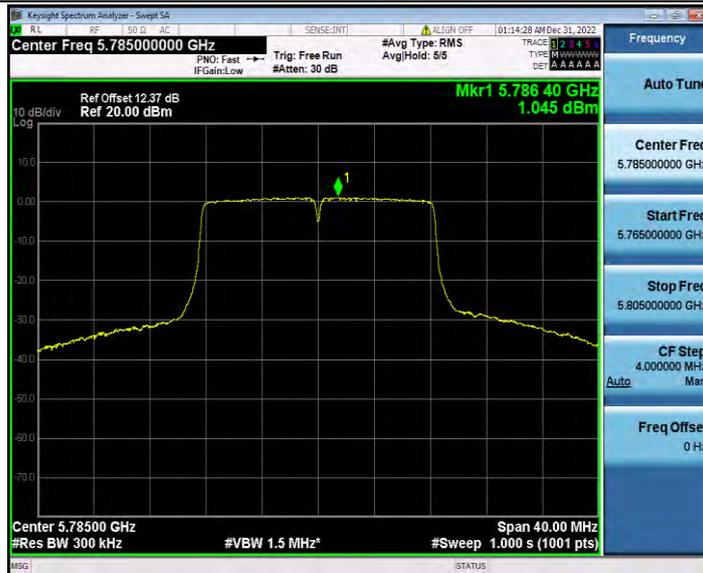
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

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



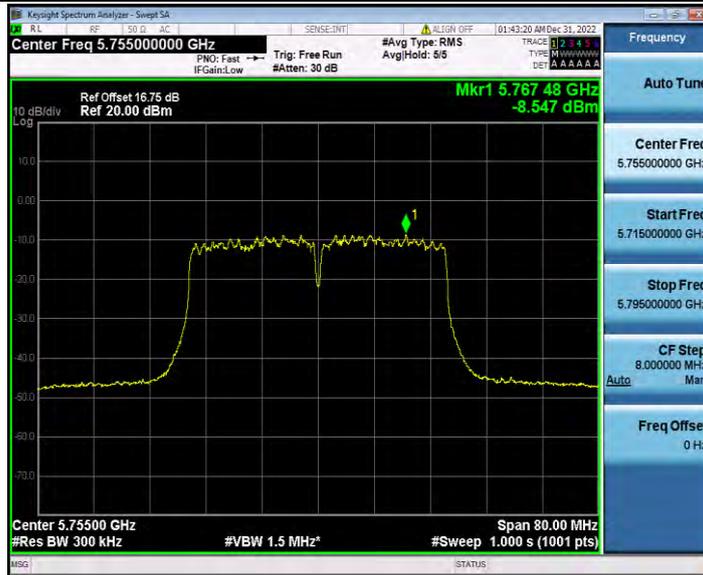
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



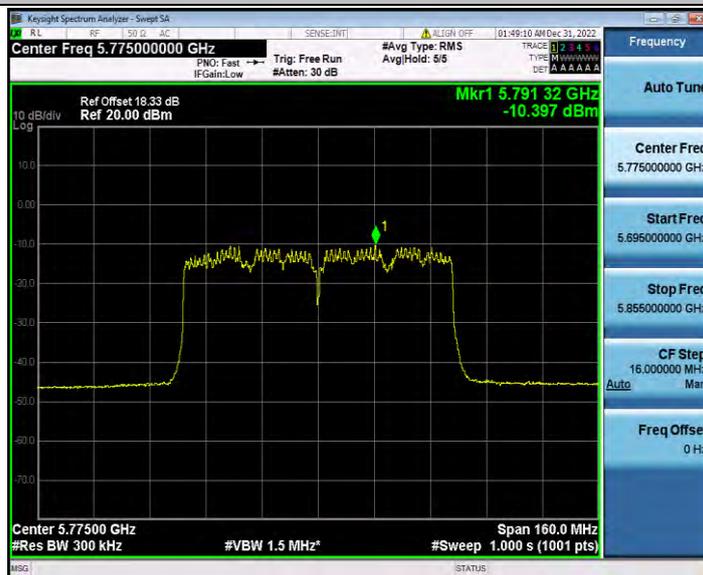
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix C.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	-38.94	≤-21.34	PASS
				5700~5720	-28.27	≤15.21	PASS
				5720~5725	-19.15	≤25.26	PASS
				5760~5650	-40.54	≤-27	PASS
		High	5825	5850~5855	-27.8	≤17.95	PASS
				5855~5875	-30.91	≤10.06	PASS
				5875~5925	-38.44	≤4.21	PASS
				5925~5935	-39.53	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-38.72	≤4.87	PASS
				5700~5720	-29.79	≤15.56	PASS
				5720~5725	-24.43	≤26.30	PASS
				5760~5650	-40.76	≤-27	PASS
		High	5825	5850~5855	-29.19	≤16.10	PASS
				5855~5875	-32.46	≤10.48	PASS
				5875~5925	-37.73	≤-1.38	PASS
				5925~5935	-39.87	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-35.29	≤9.66	PASS
				5700~5720	-24.89	≤15.50	PASS
				5720~5725	-20.84	≤25.28	PASS
				5780~5650	-40.43	≤-27	PASS
		High	5795	5850~5855	-33.27	≤17.91	PASS
				5855~5875	-33.84	≤11.61	PASS
				5875~5925	-38.15	≤-23.14	PASS
				5925~5935	-38.92	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-38.95	≤-6.19	PASS
				5700~5720	-36.97	≤15.53	PASS
				5720~5725	-36.33	≤23.68	PASS
				5760~5650	-40.43	≤-27	PASS
		High	5825	5850~5855	-37.59	≤18.26	PASS
				5855~5875	-38.6	≤13.05	PASS
				5875~5925	-37.97	≤-12.37	PASS
				5925~5935	-39	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-39.17	≤-13.12	PASS
				5700~5720	-35.66	≤13.50	PASS
				5720~5725	-36.15	≤18.20	PASS

				5780~5650	-40.08	≤ -27	PASS
		High	5795	5850~5855	-39.17	≤ 25.81	PASS
				5855~5875	-39.04	≤ 14.20	PASS
				5875~5925	-37.93	≤ -22.65	PASS
				5925~5935	-39.37	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.45	≤ 3.25	PASS
				5700~5720	-38.37	≤ 14.30	PASS
				5720~5725	-37.42	≤ 26.95	PASS
				5800~5650	-38.63	≤ -27	PASS
		High	5775	5850~5855	-38.61	≤ 15.79	PASS
				5855~5875	-38.59	≤ 11.11	PASS
				5875~5925	-38.58	≤ -1.49	PASS
				5925~5935	-39.59	≤ -27	PASS

Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



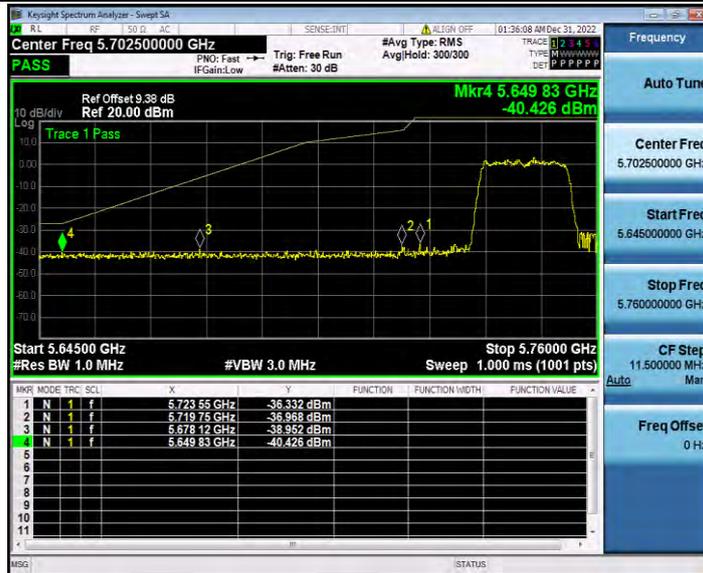
11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



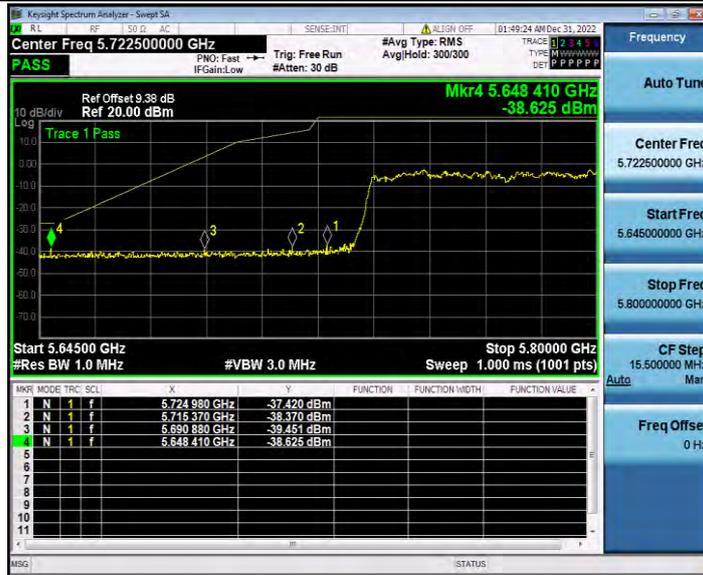
11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



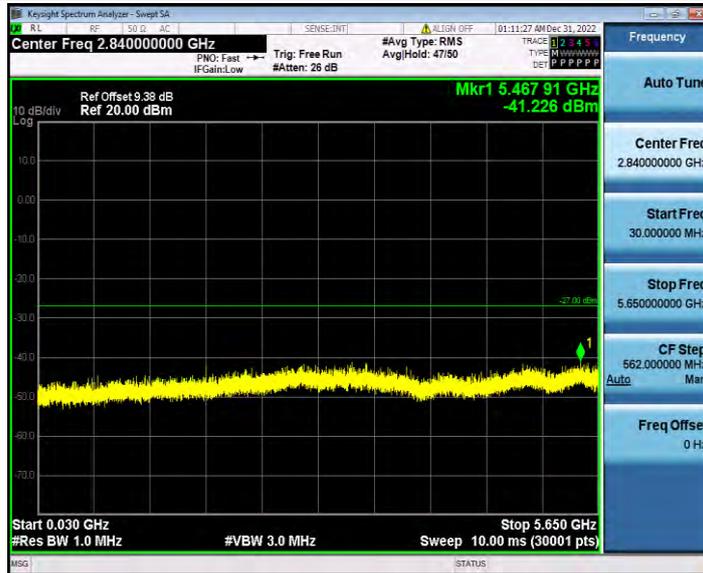
Appendix C.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5467.91	-41.23	≤-27	PASS
			5925~40000	26603.79	-33.09	≤-27	PASS
		5785	30~5650	3281.54	-40.38	≤-27	PASS
			5925~40000	25047.05	-32.76	≤-27	PASS
		5825	30~5650	2532.59	-41.06	≤-27	PASS
			5925~40000	25632.23	-32.32	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	3046.44	-41.07	≤-27	PASS
			5925~40000	24855.97	-32.67	≤-27	PASS
		5785	30~5650	5380.43	-40.21	≤-27	PASS
			5925~40000	24774.48	-32.28	≤-27	PASS
		5825	30~5650	5447.31	-39.93	≤-27	PASS
			5925~40000	23495.23	-31.93	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	2663.91	-40.01	≤-27	PASS
			5925~40000	23500.15	-32.26	≤-27	PASS
		5795	30~5650	2901.26	-39.6	≤-27	PASS
			5925~40000	23518.41	-32.58	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	1759.46	-39.88	≤-27	PASS
			5925~40000	24252.52	-33.02	≤-27	PASS
		5785	30~5650	5435.69	-40	≤-27	PASS
			5925~40000	26485.77	-32.14	≤-27	PASS
		5825	30~5650	2563.87	-40.53	≤-27	PASS
			5925~40000	26604.49	-32.56	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5431.19	-41.19	≤-27	PASS
			5925~40000	24247.61	-32.18	≤-27	PASS
		5795	30~5650	2720.11	-39.88	≤-27	PASS
			5925~40000	24385.3	-32.53	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	3000.36	-41.19	≤-27	PASS
			5925~40000	25191.77	-32.66	≤-27	PASS

Test Graphs

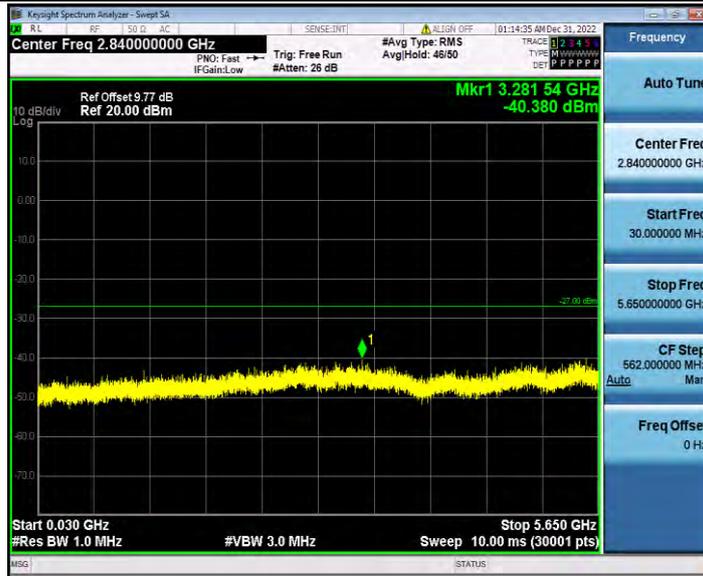
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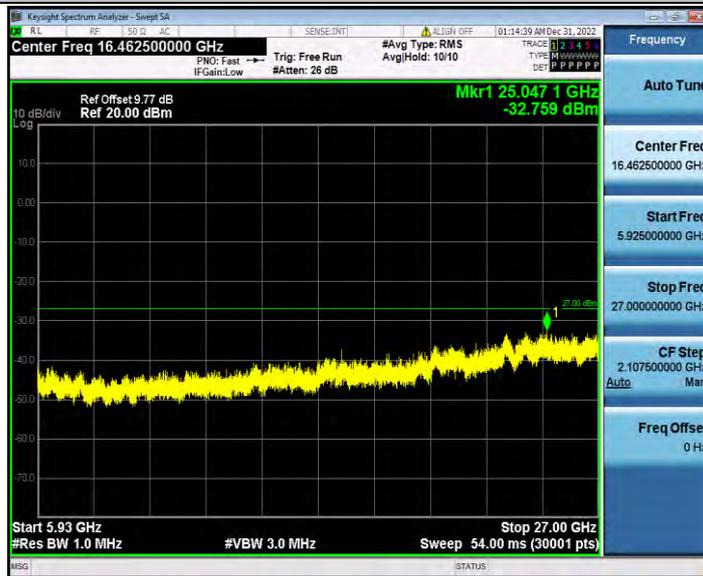
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11A_Ant1_5785_30~5650



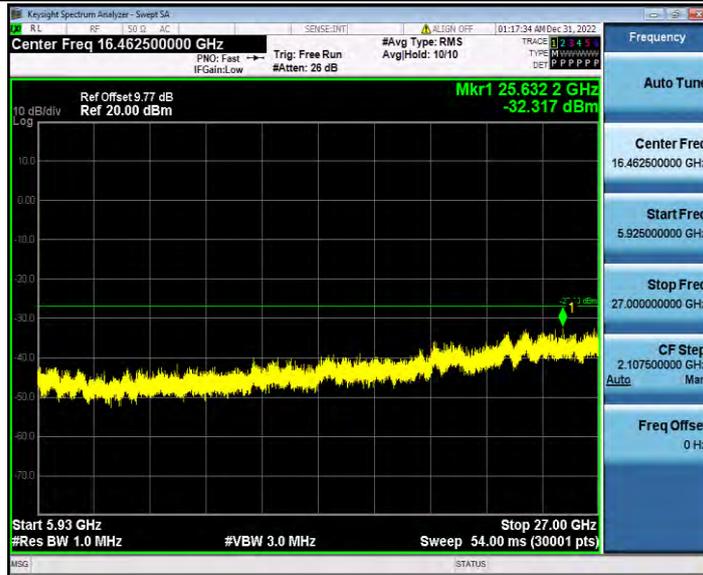
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11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~40000



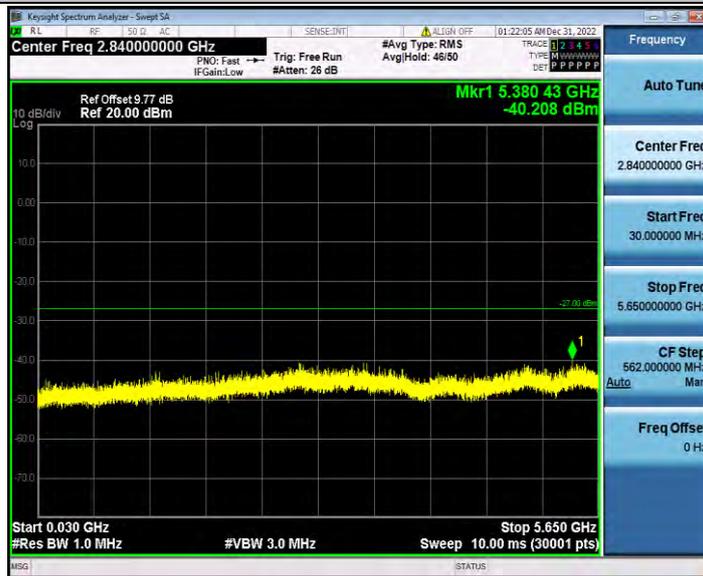
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11N20SISO_Ant1_5745_5925~40000



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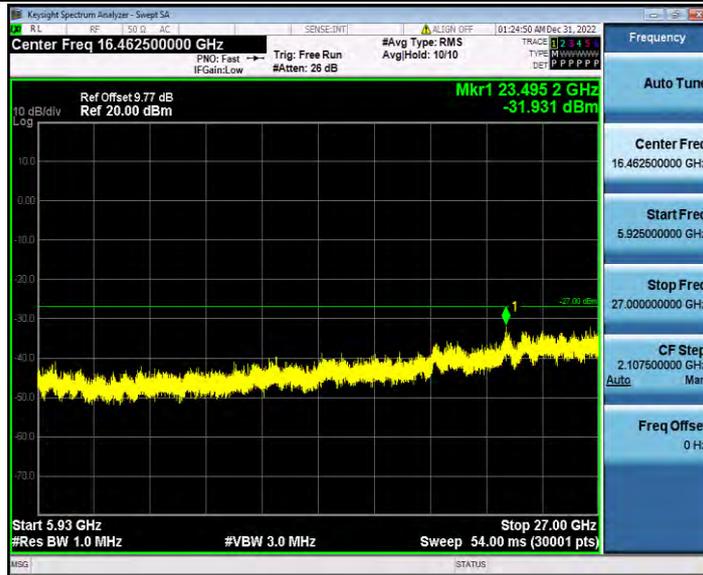
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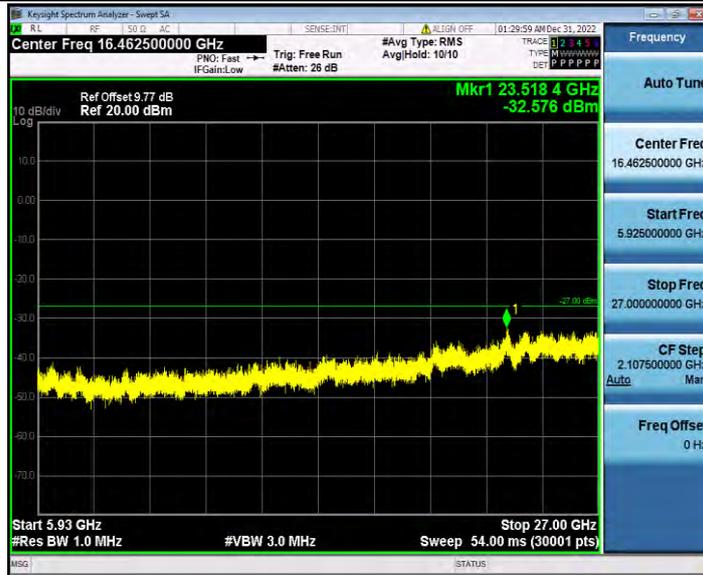
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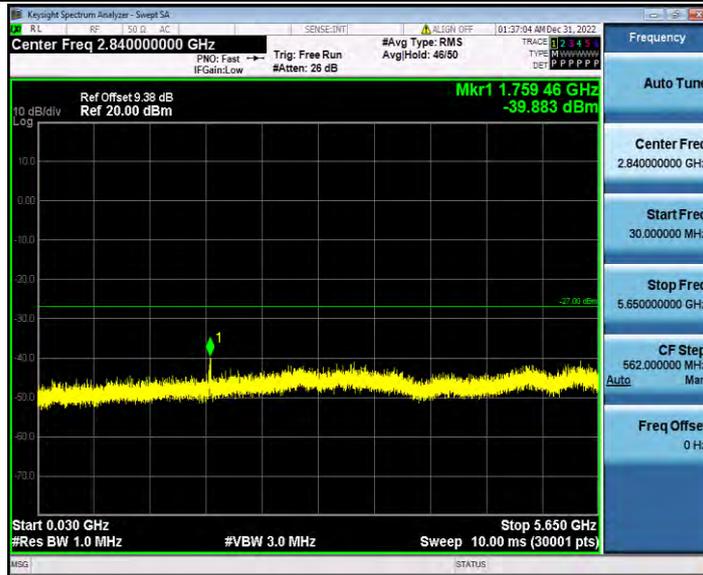
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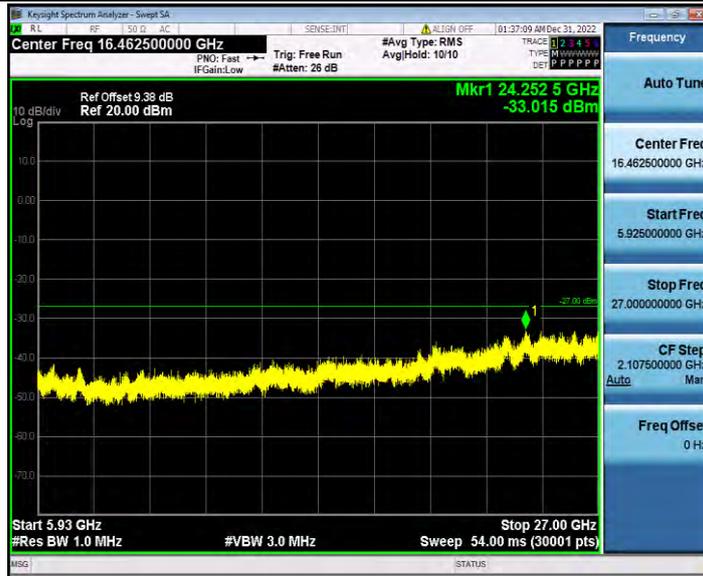
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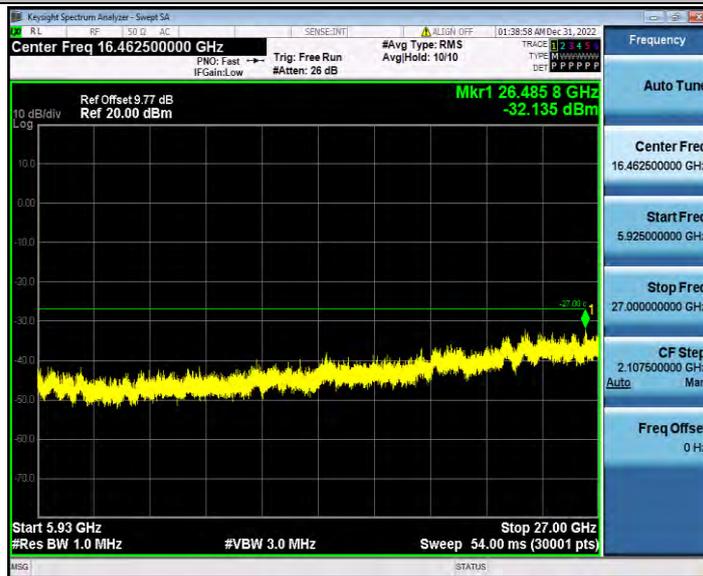
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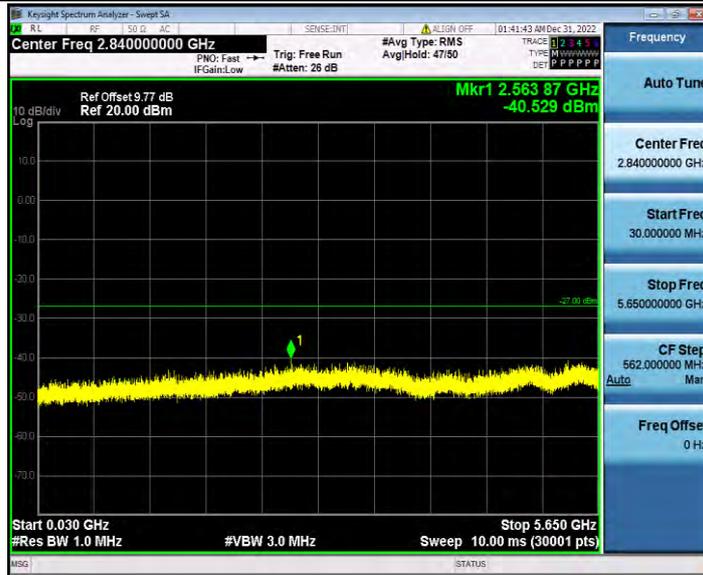
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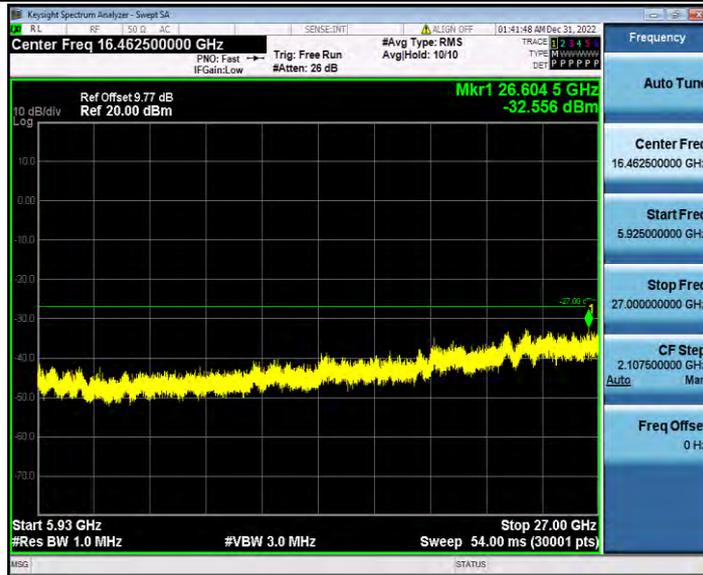
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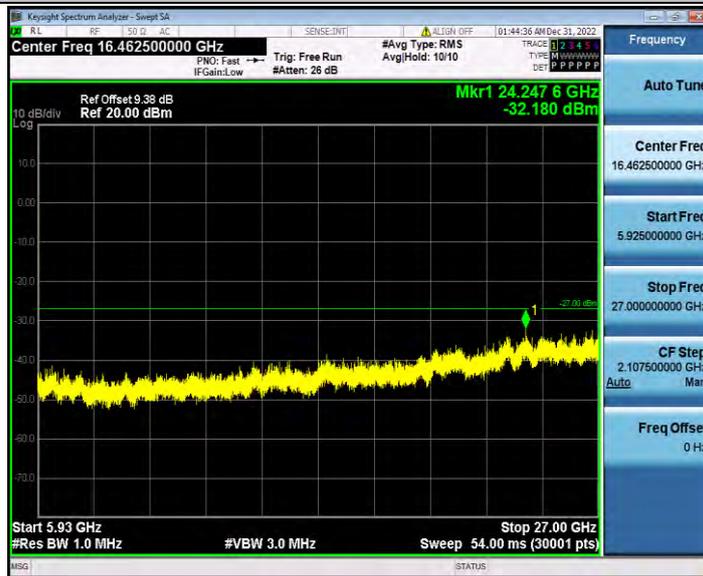
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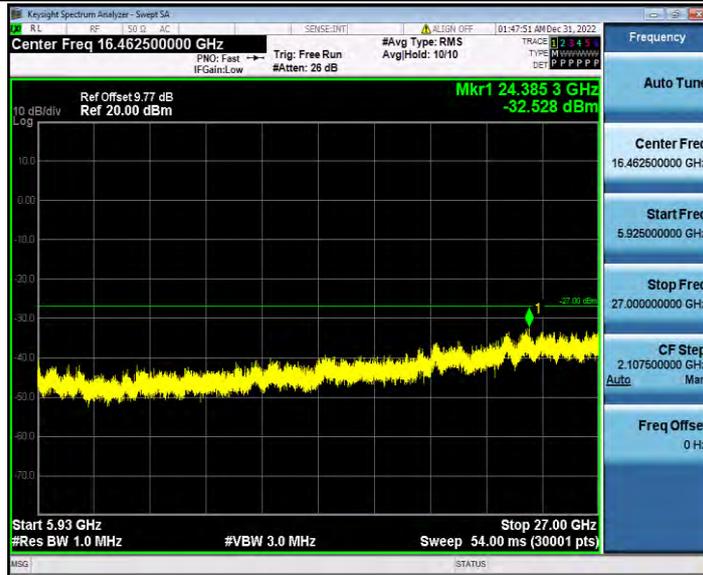
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11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000

