

Case No. : <u>CTA24080500102</u>
Ambient Condition: <u>23 °C, 52%RH</u>
According Standard: <u>■Part15E</u>
Test Date: <u>2024.8.12</u> Test Engineer: <u>Lushan Kong</u>

Appendix C.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	20.400	5249.600	5270.000	---	---
		5280	20.400	5269.600	5290.000	---	---
		5320	20.360	5309.640	5330.000	---	---
11N20SISO	Ant1	5260	21.000	5249.320	5270.320	---	---
		5280	21.040	5269.320	5290.360	---	---
		5320	21.000	5309.320	5330.320	---	---
11N40SISO	Ant1	5270	41.920	5248.880	5290.800	---	---
		5310	41.920	5288.880	5330.800	---	---
11AC20SISO	Ant1	5260	20.960	5249.440	5270.400	---	---
		5280	21.080	5269.400	5290.480	---	---
		5320	21.120	5309.400	5330.520	---	---
11AC40SISO	Ant1	5270	41.440	5249.040	5290.480	---	---
		5310	41.520	5289.120	5330.640	---	---
11AC80SISO	Ant1	5290	81.760	5249.040	5330.800	---	---

Test Graphs





11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290

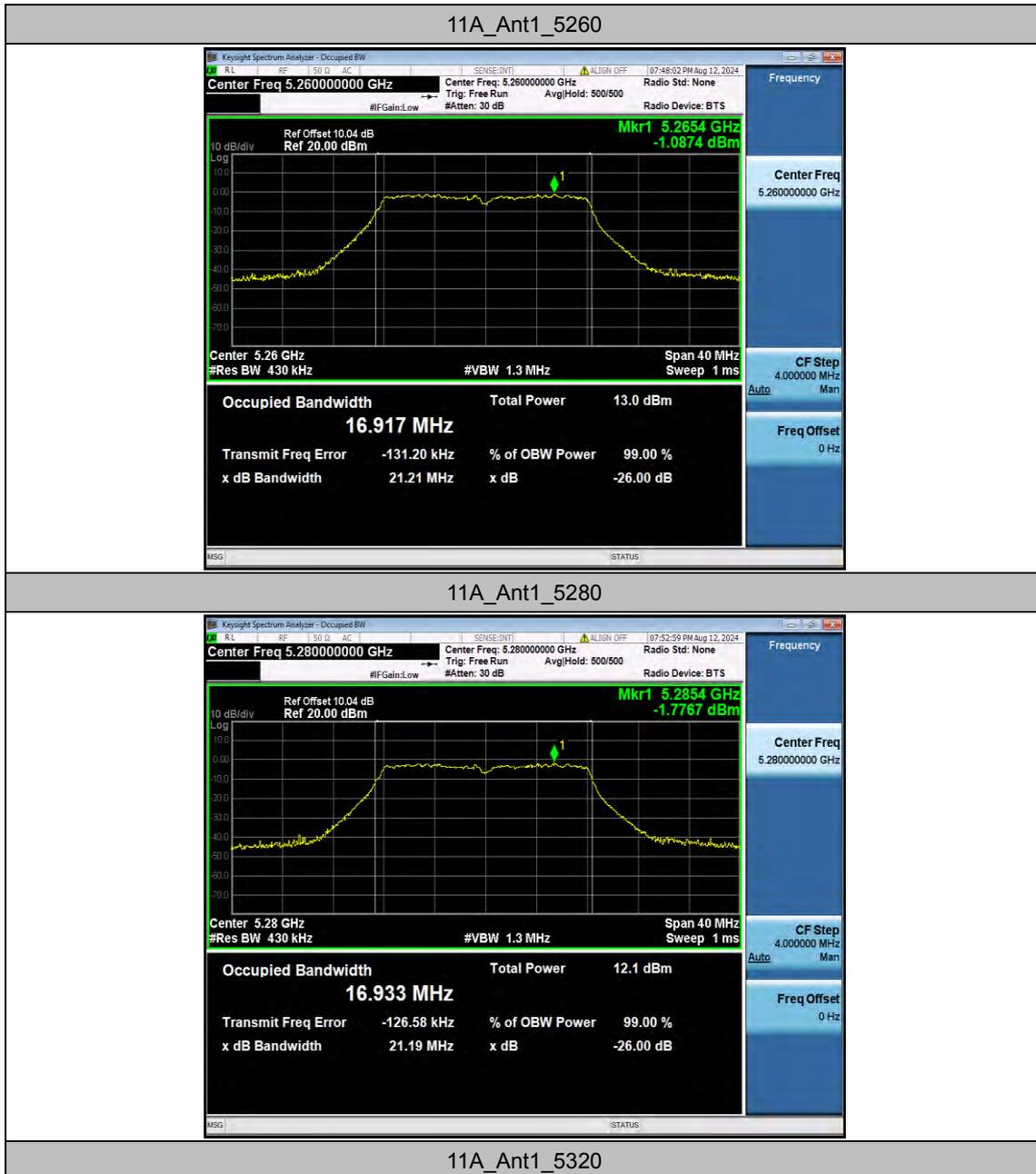


Appendix C.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	16.917	5251.4103	5268.3273	---	---
		5280	16.933	5271.4069	5288.3399	---	---
		5320	16.914	5311.4240	5328.3380	---	---
11N20SISO	Ant1	5260	17.857	5251.0039	5268.8609	---	---
		5280	17.867	5271.0119	5288.8789	---	---
		5320	17.849	5311.0219	5328.8709	---	---
11N40SISO	Ant1	5270	36.467	5251.7300	5288.1970	---	---
		5310	36.426	5291.8044	5328.2304	---	---
11AC20SISO	Ant1	5260	17.877	5250.9999	5268.8769	---	---
		5280	17.900	5271.0016	5288.9016	---	---
		5320	17.905	5310.9991	5328.9041	---	---
11AC40SISO	Ant1	5270	36.486	5251.7090	5288.1950	---	---
		5310	36.429	5291.7559	5328.1849	---	---
11AC80SISO	Ant1	5290	75.270	5252.3371	5327.6071	---	---

Test Graphs





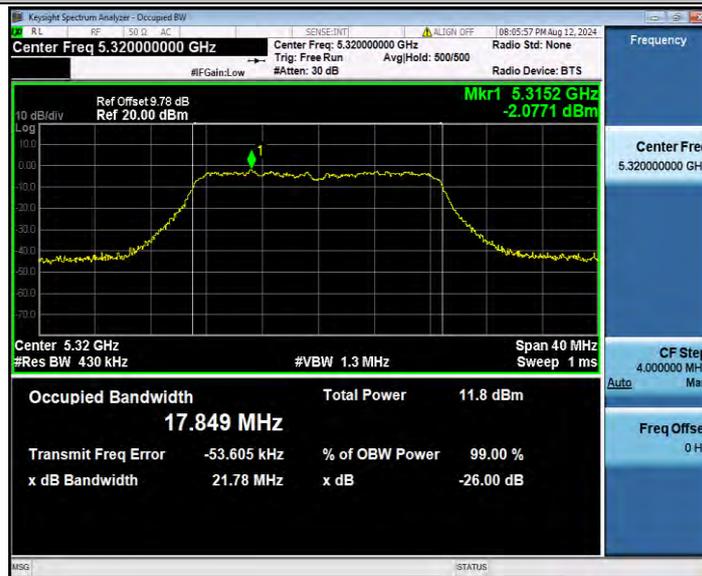
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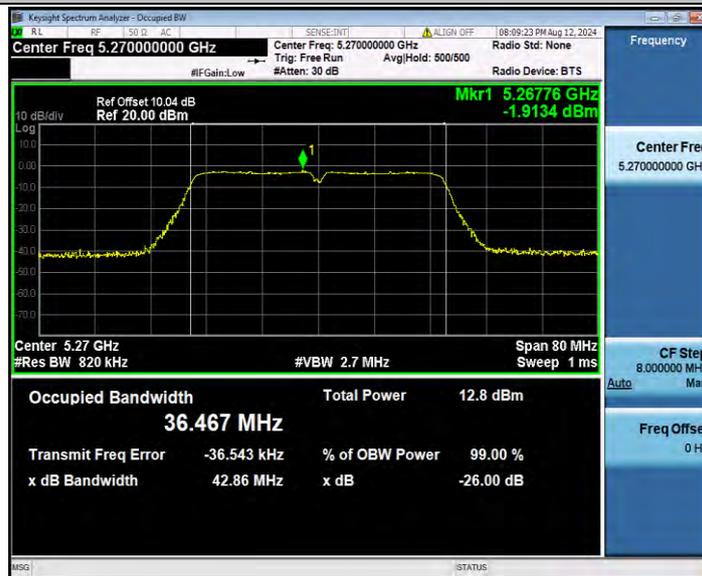
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11N20SISO_Ant1_5320



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



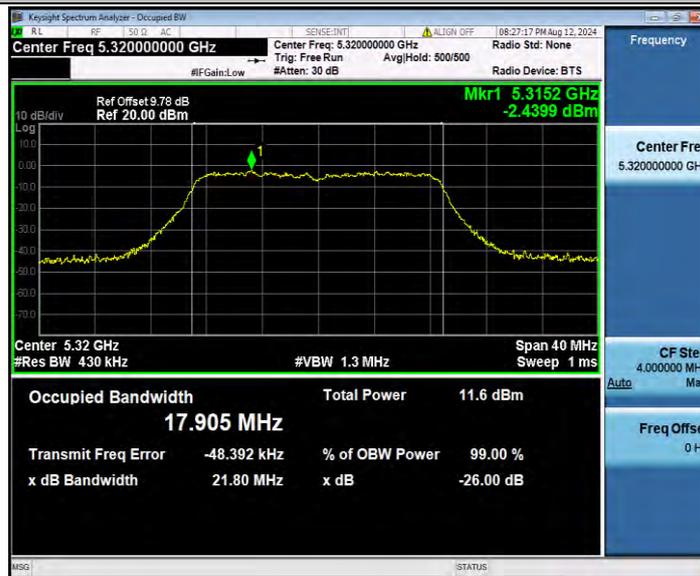
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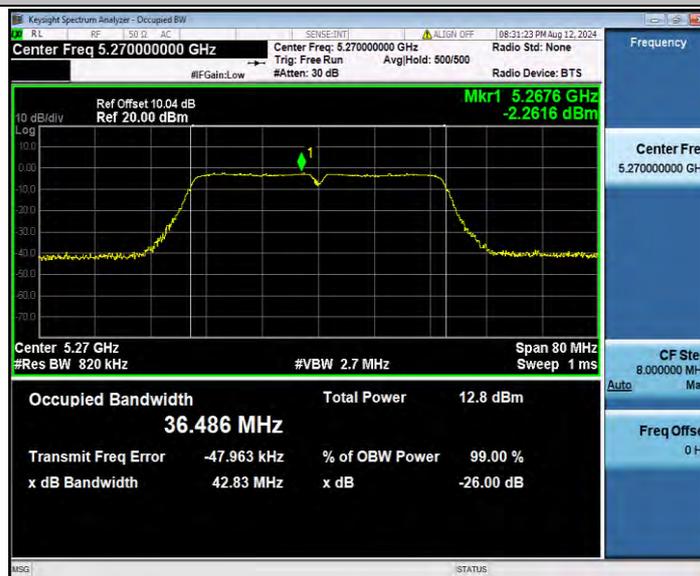
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11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290

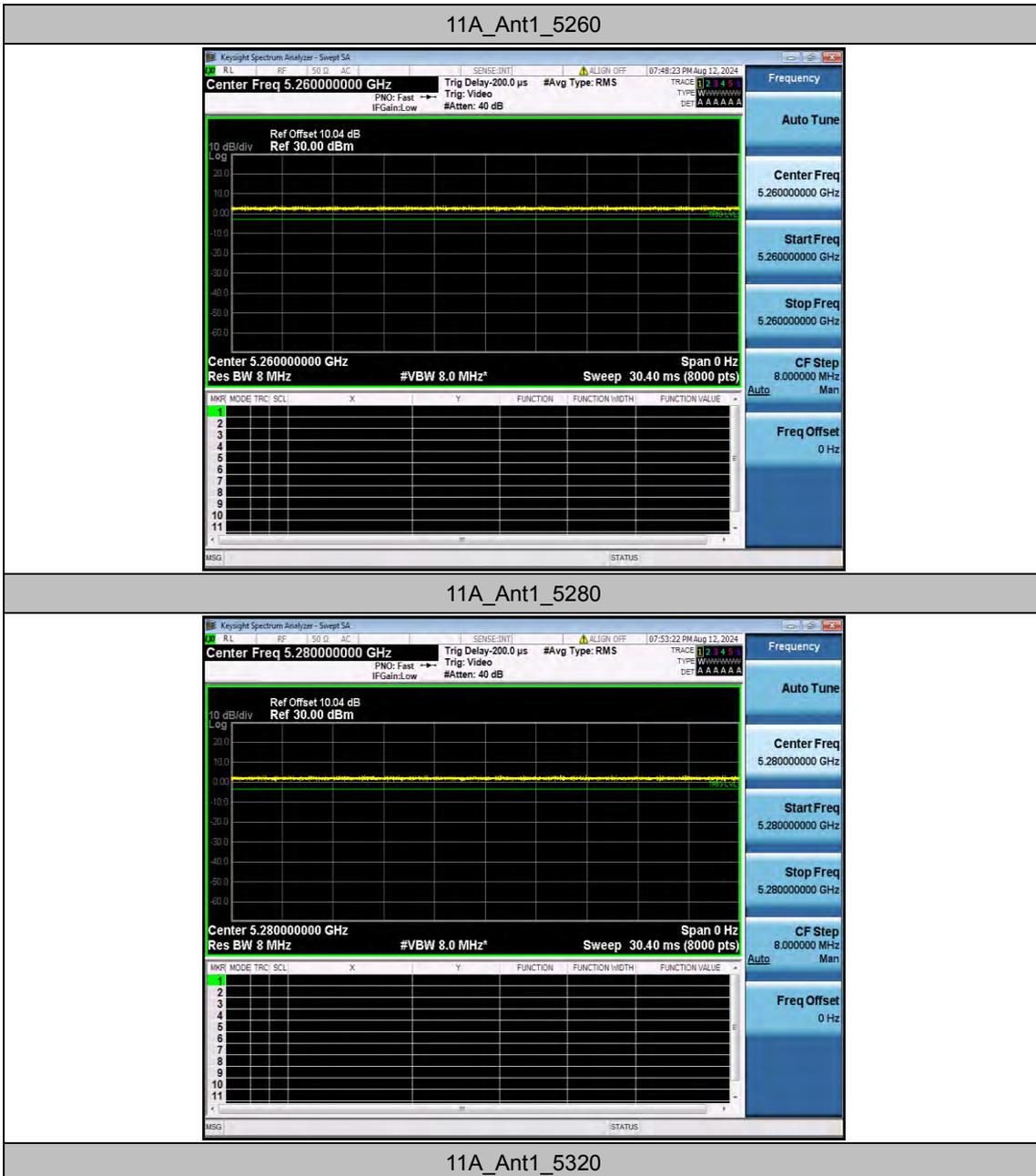


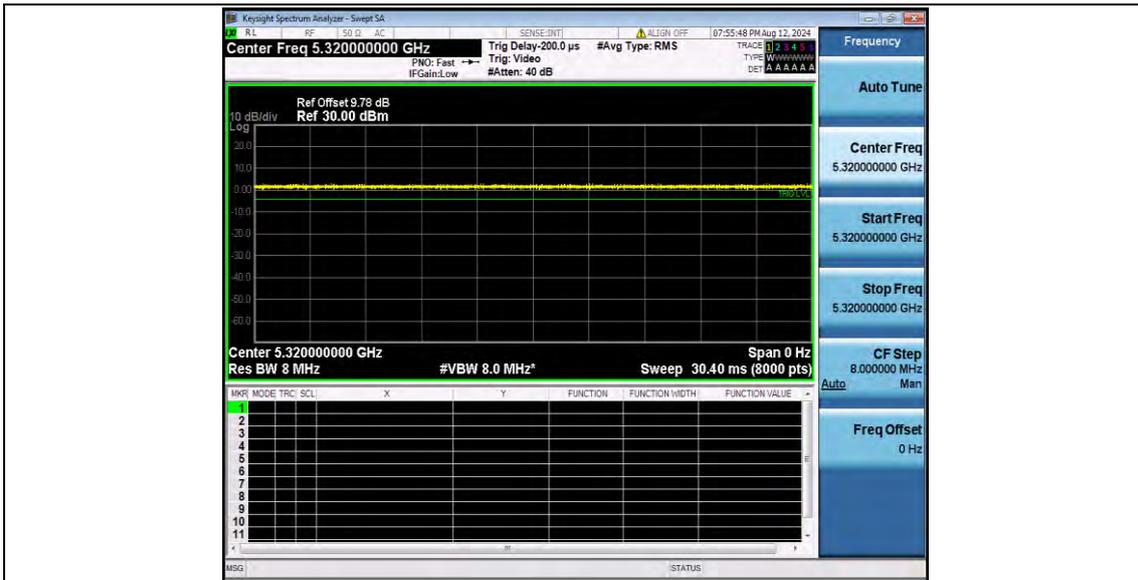
Appendix C.3: Duty Cycle

Test Result

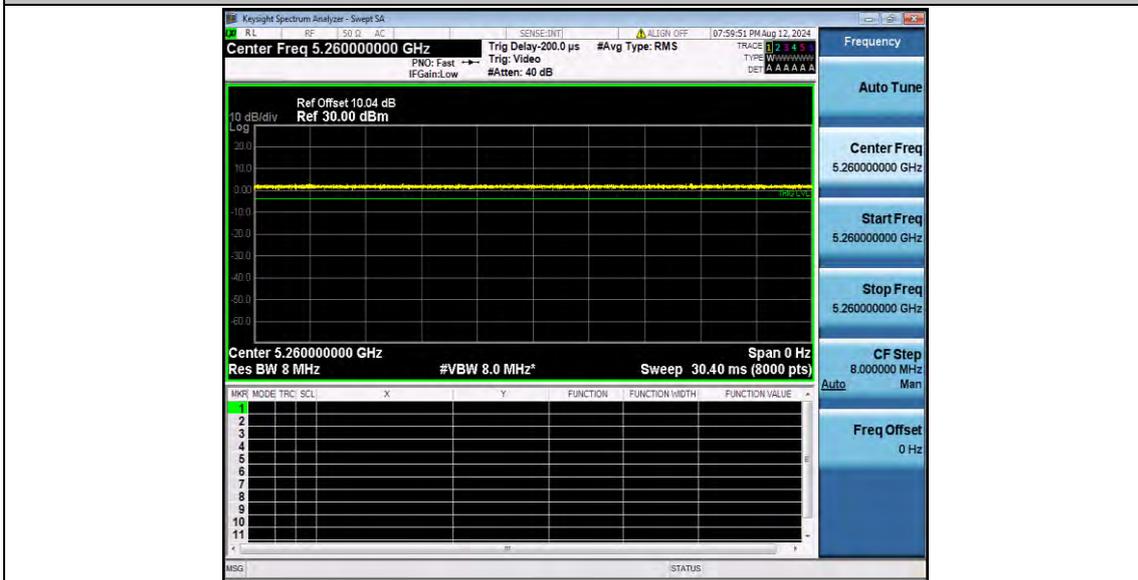
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5260	30.00	30.00	100.00	0.00	0.03
		5280	30.00	30.00	100.00	0.00	0.03
		5320	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5260	30.00	30.00	100.00	0.00	0.03
		5280	30.00	30.00	100.00	0.00	0.03
		5320	30.00	30.00	100.00	0.00	0.03
11N40SISO	Ant1	5270	30.00	30.00	100.00	0.00	0.03
		5310	30.00	30.00	100.00	0.00	0.03
11AC20SISO	Ant1	5260	30.00	30.00	100.00	0.00	0.03
		5280	30.00	30.00	100.00	0.00	0.03
		5320	30.00	30.00	100.00	0.00	0.03
11AC40SISO	Ant1	5270	30.00	30.00	100.00	0.00	0.03
		5310	30.00	30.00	100.00	0.00	0.03
11AC80SISO	Ant1	5290	30.00	30.00	100.00	0.00	0.03

Test Graphs

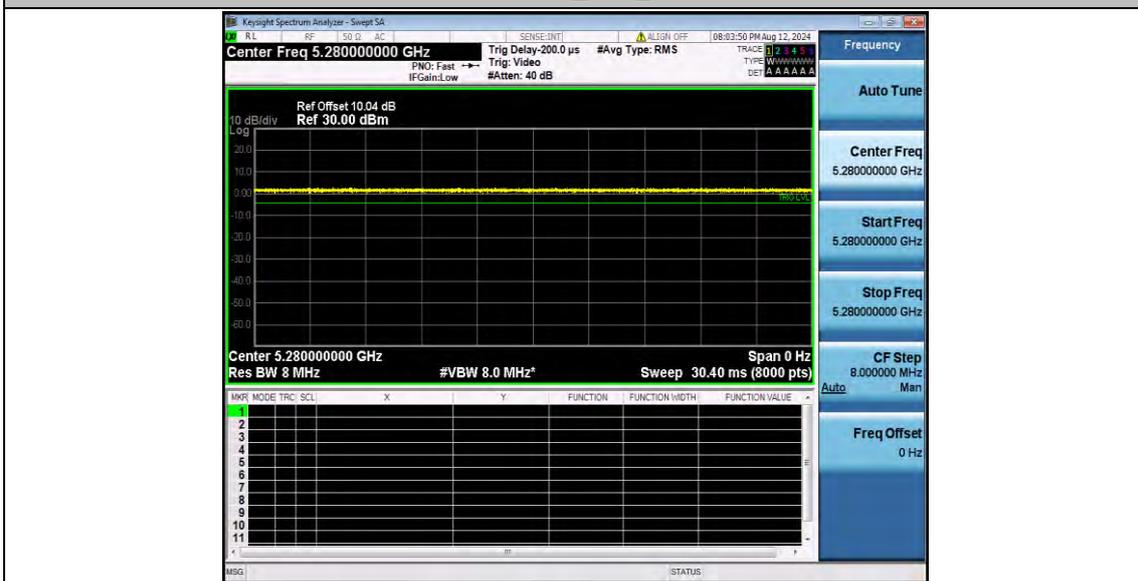

11A_Ant1_5280
11A_Ant1_5320



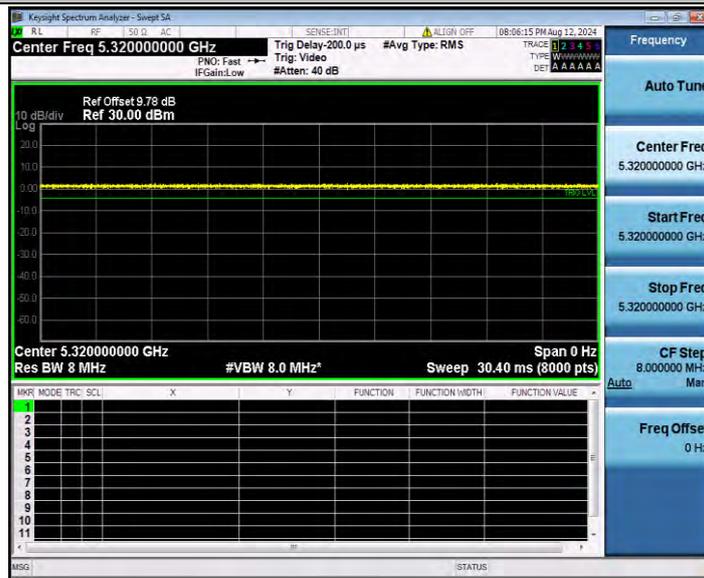
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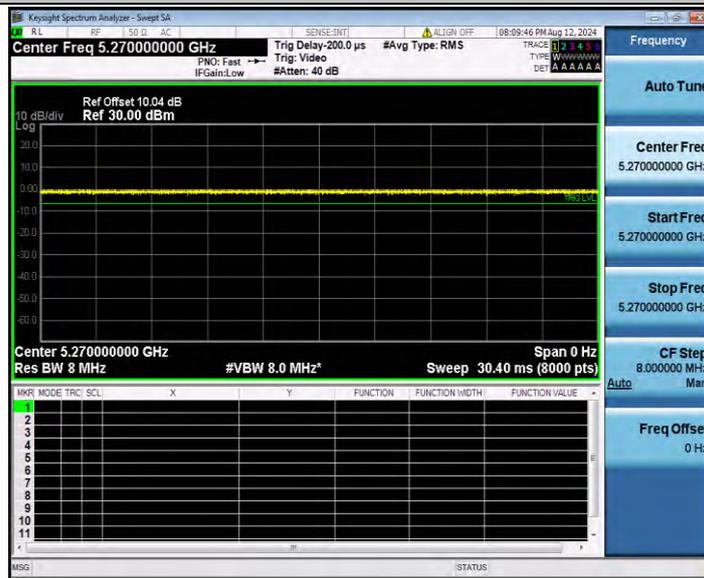
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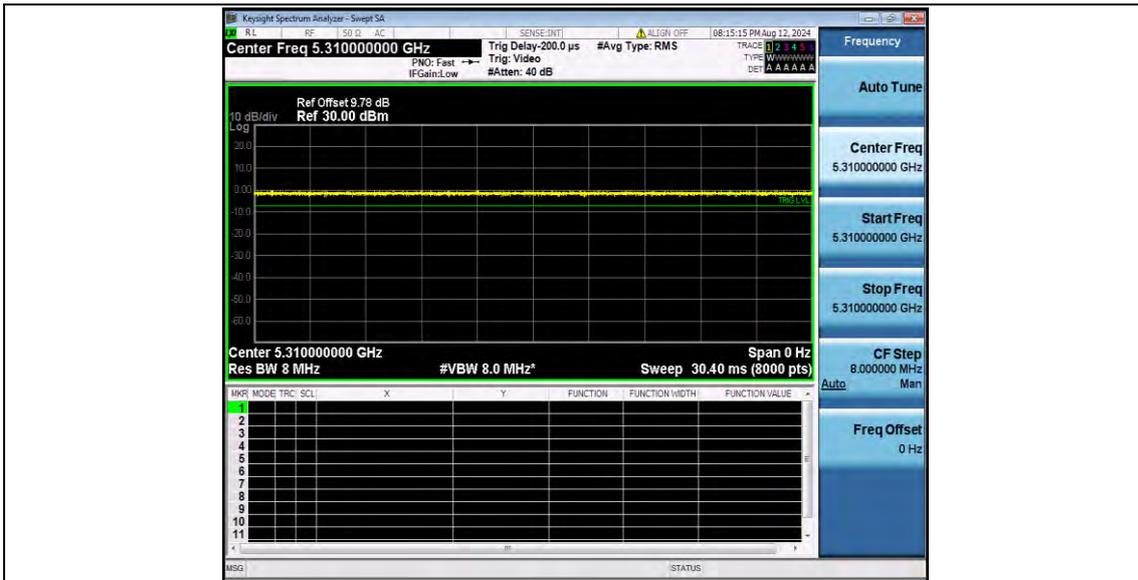
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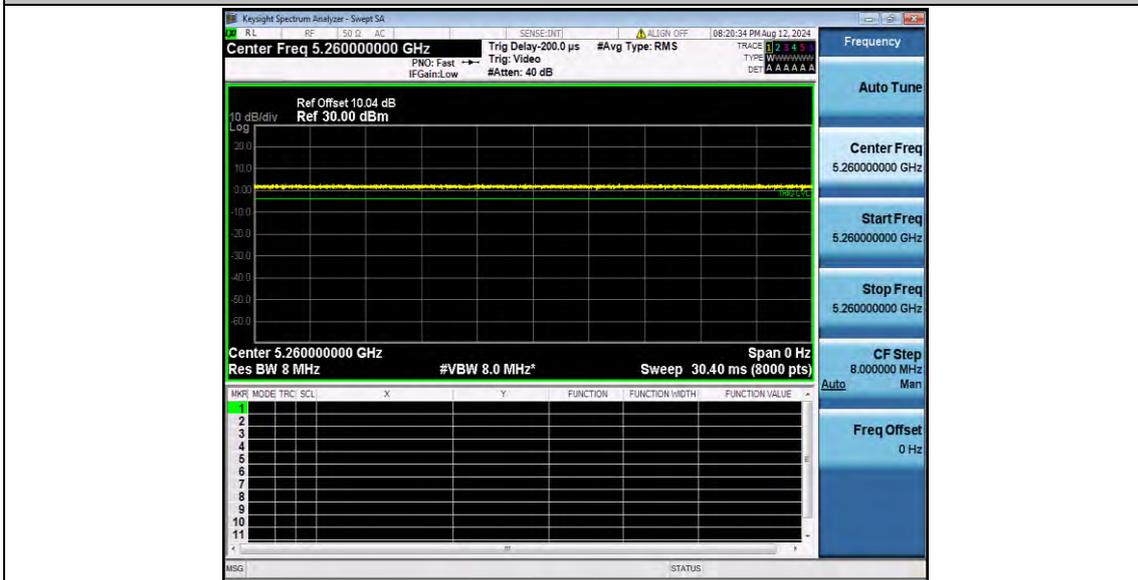
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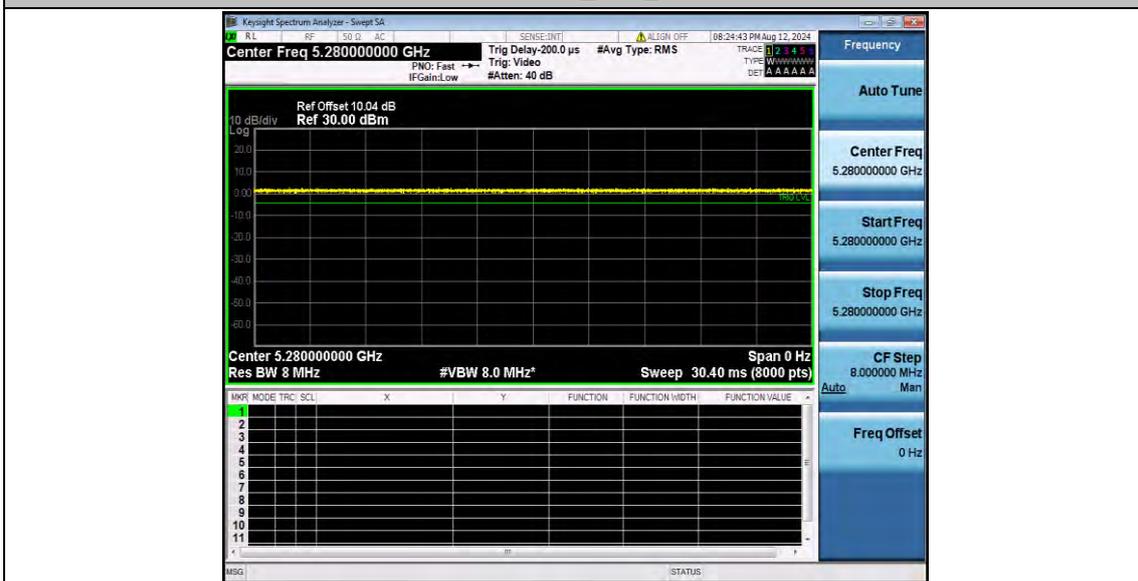
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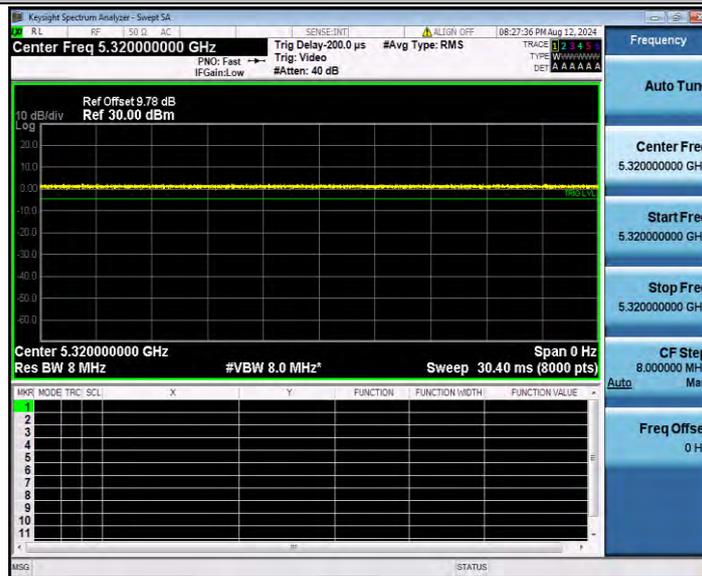
11AC20SISO_Ant1_5260



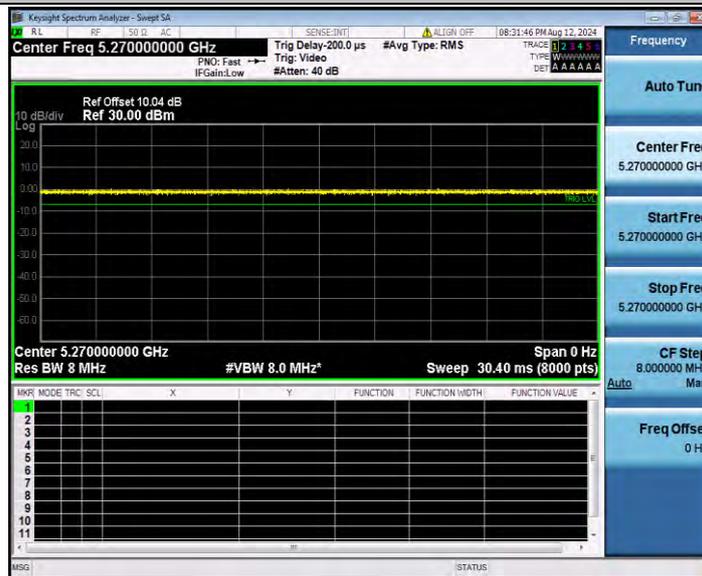
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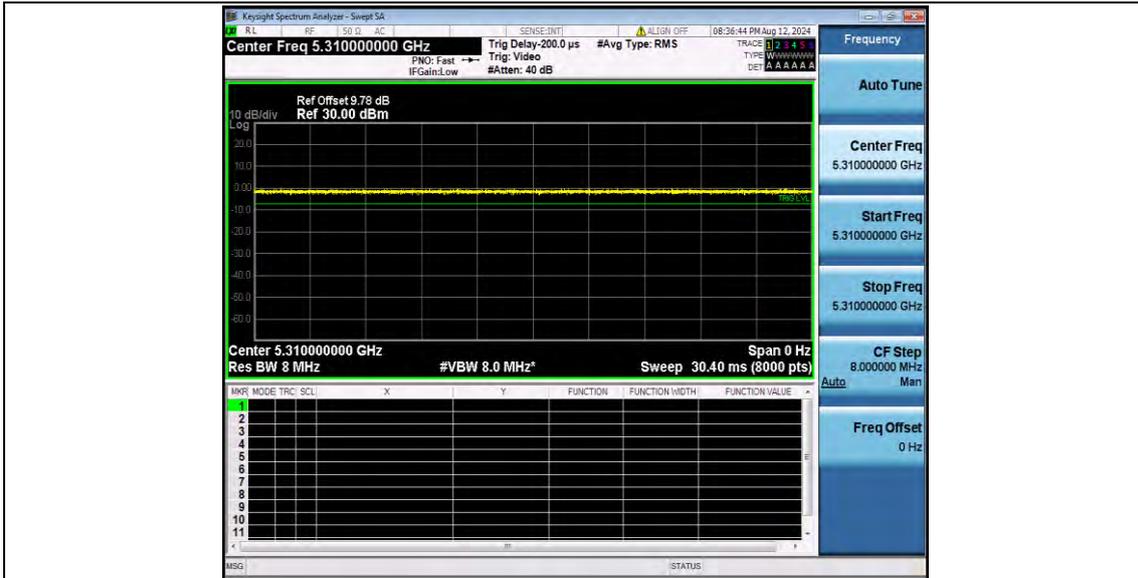
11AC20SISO_Ant1_5320



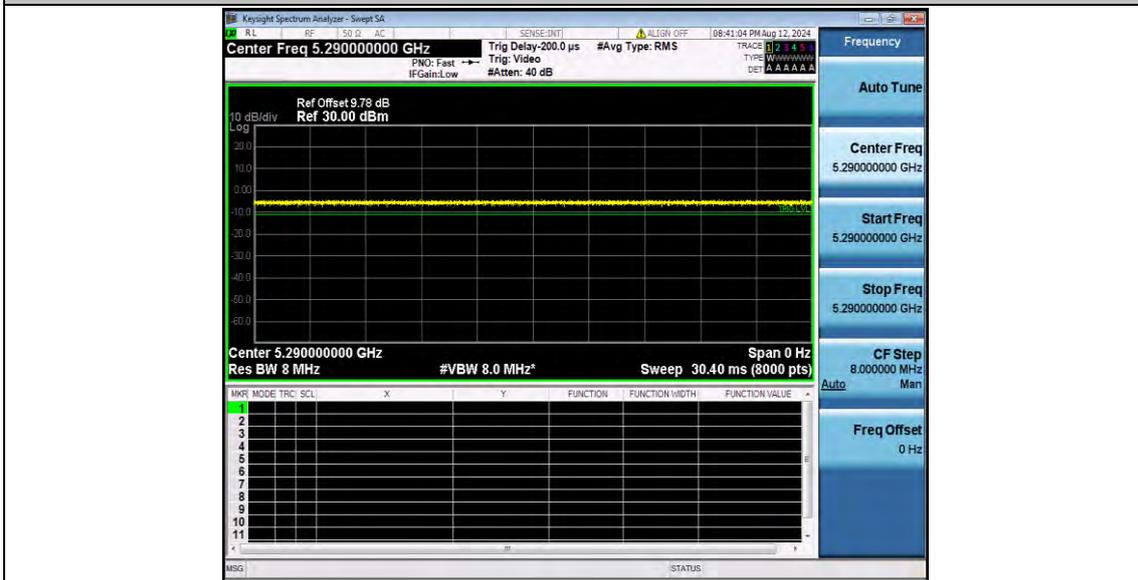
11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



Appendix C.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	5260	6.36	100.00	0.00	6.36	≤23.98	PASS
		5280	5.50	100.00	0.00	5.50	≤23.98	PASS
		5320	5.07	100.00	0.00	5.07	≤23.98	PASS
11N20SISO	Ant1	5260	5.53	100.00	0.00	5.53	≤23.98	PASS
		5280	5.37	100.00	0.00	5.37	≤23.98	PASS
		5320	5.02	100.00	0.00	5.02	≤23.98	PASS
11N40SISO	Ant1	5270	5.54	100.00	0.00	5.54	≤23.98	PASS
		5310	5.08	100.00	0.00	5.08	≤23.98	PASS
11AC20SIS O	Ant1	5260	5.55	100.00	0.00	5.55	≤23.98	PASS
		5280	5.32	100.00	0.00	5.32	≤23.98	PASS
		5320	4.94	100.00	0.00	4.94	≤23.98	PASS
11AC40SIS O	Ant1	5270	5.49	100.00	0.00	5.49	≤23.98	PASS
		5310	5.01	100.00	0.00	5.01	≤23.98	PASS
11AC80SIS O	Ant1	5290	4.97	100.00	0.00	4.97	≤23.98	PASS

Appendix C.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5260	-5.65	≤11.00	PASS
		5280	-6.06	≤11.00	PASS
		5320	-6.43	≤11.00	PASS
11N20SISO	Ant1	5260	-6.15	≤11.00	PASS
		5280	-6.34	≤11.00	PASS
		5320	-6.66	≤11.00	PASS
11N40SISO	Ant1	5270	-9.22	≤11.00	PASS
		5310	-9.68	≤11.00	PASS
11AC20SISO	Ant1	5260	-6.16	≤11.00	PASS
		5280	-6.45	≤11.00	PASS
		5320	-6.82	≤11.00	PASS
11AC40SISO	Ant1	5270	-9.26	≤11.00	PASS
		5310	-9.78	≤11.00	PASS
11AC80SISO	Ant1	5290	-11.67	≤11.00	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_5260



11A_Ant1_5280



11A_Ant1_5320



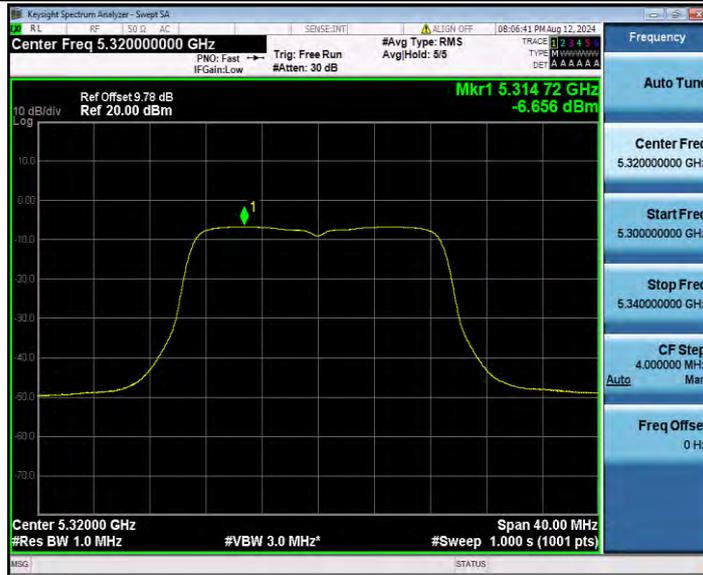
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



Appendix C.6: Band edge measurements

Test Result B2

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5260	-37.16	≤-27	PASS
		High	5320	-38.12	≤-27	PASS
11N20SISO	Ant1	Low	5260	-37.39	≤-27	PASS
		High	5320	-37.34	≤-27	PASS
11N40SISO	Ant1	Low	5270	-36.84	≤-27	PASS
		High	5310	-38.09	≤-27	PASS
11AC20SISO	Ant1	Low	5260	-36.49	≤-27	PASS
		High	5320	-37.74	≤-27	PASS
11AC40SISO	Ant1	Low	5270	-36.17	≤-27	PASS
		High	5310	-37.62	≤-27	PASS
11AC80SISO	Ant1	Low	5290	-37.43	≤-27	PASS
		High	5290	-37.51	≤-27	PASS