

Case No. : <u>CTA24050902604</u>
Ambient Condition: <u>22 °C, 51 %RH</u>
According Standard: <u>■Part15E</u>
Test Date: <u>2024.4.17</u> Test Engineer: <u>Evan ouyang</u>

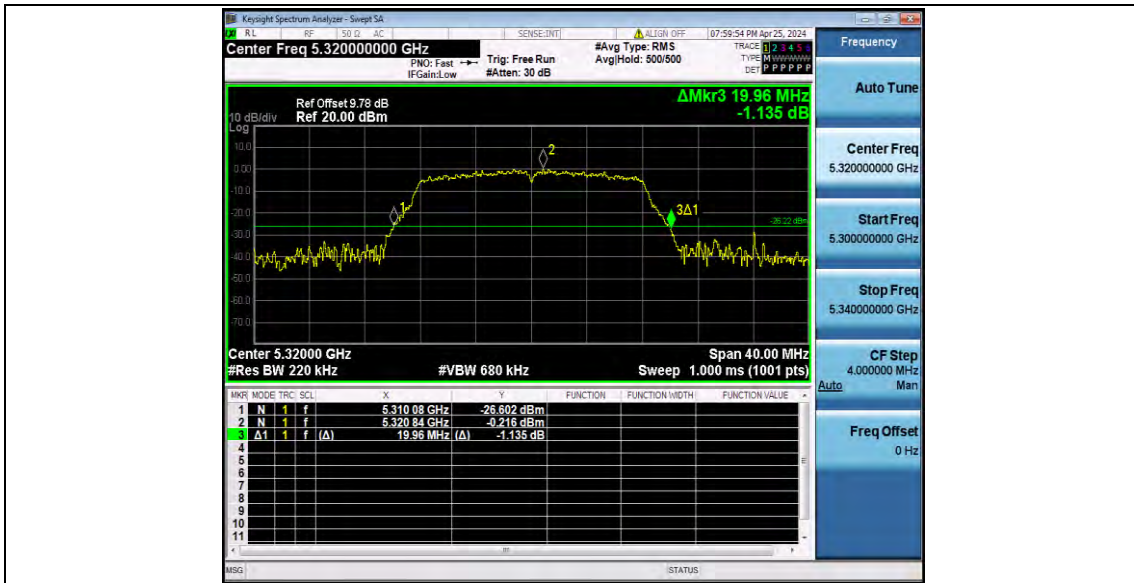
Appendix E.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	21.520	5249.720	5271.240	---	---
		5280	19.840	5270.080	5289.920	---	---
		5320	19.960	5310.080	5330.040	---	---
11N20SISO	Ant1	5260	20.320	5249.880	5270.200	---	---
		5280	20.240	5269.920	5290.160	---	---
		5320	20.160	5309.920	5330.080	---	---
11N40SISO	Ant1	5270	40.960	5249.280	5290.240	---	---
		5310	40.240	5290.080	5330.320	---	---
11AC20SISO	Ant1	5260	20.320	5249.880	5270.200	---	---
		5280	20.240	5269.880	5290.120	---	---
		5320	20.240	5309.880	5330.120	---	---
11AC40SISO	Ant1	5270	40.640	5249.680	5290.320	---	---
		5310	48.160	5289.600	5337.760	---	---
11AC80SISO	Ant1	5290	80.640	5249.840	5330.480	---	---

Test Graphs





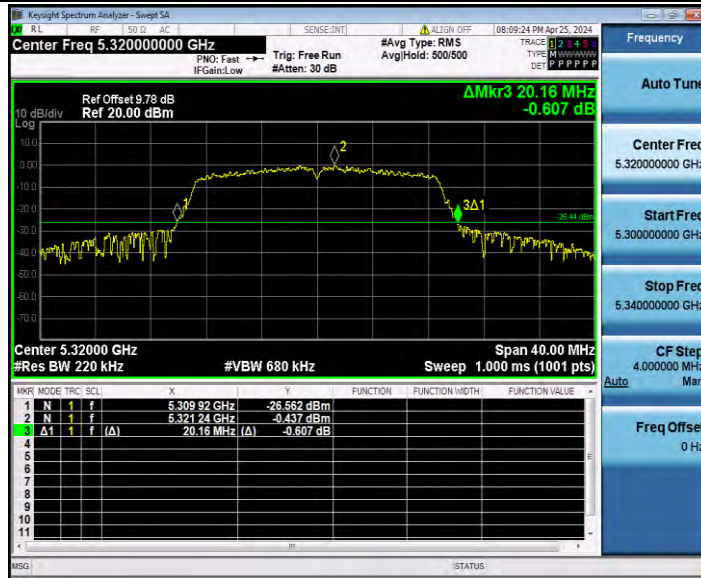
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



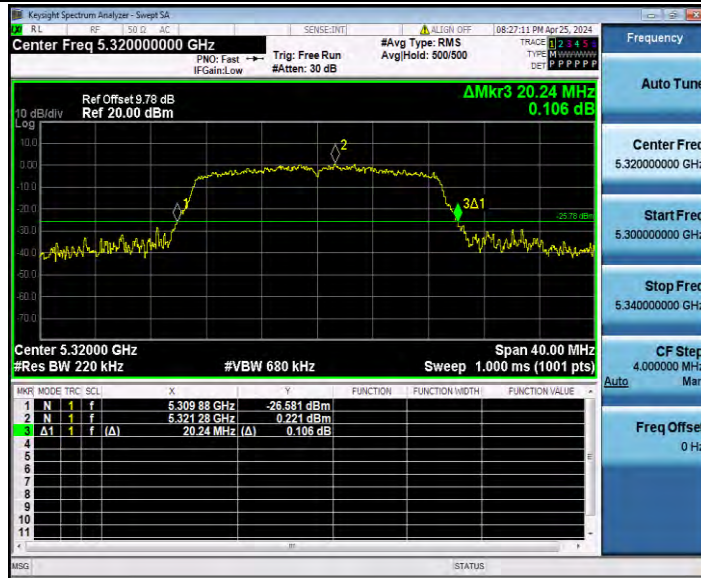
11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290

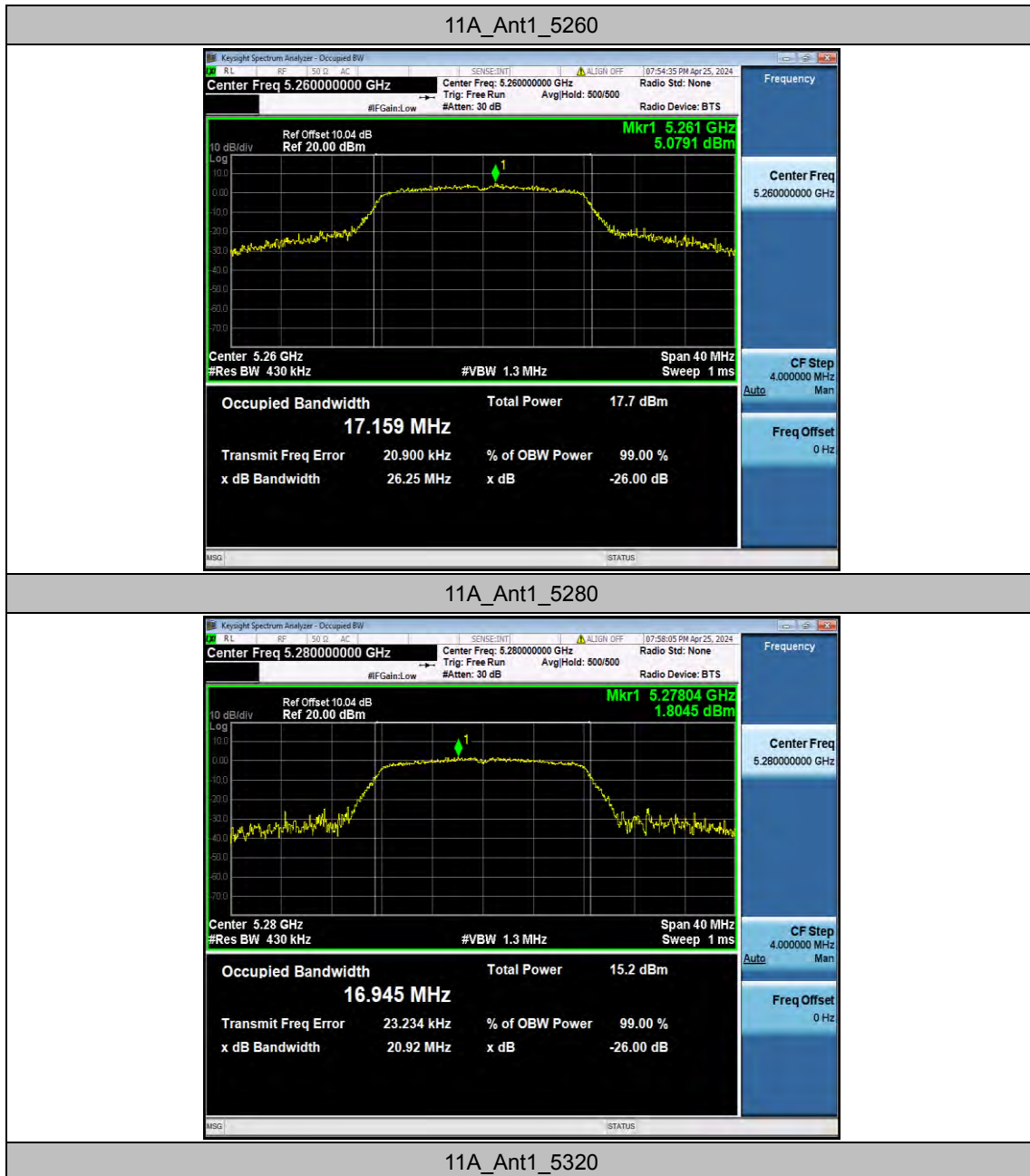


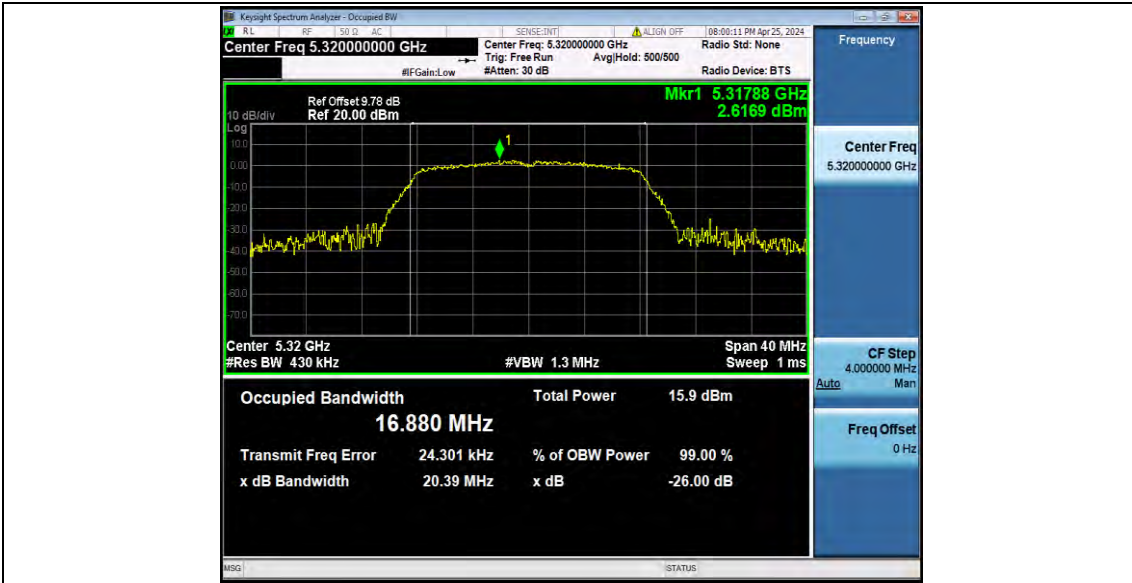
Appendix E.2: Occupied channel bandwidth

Test Result

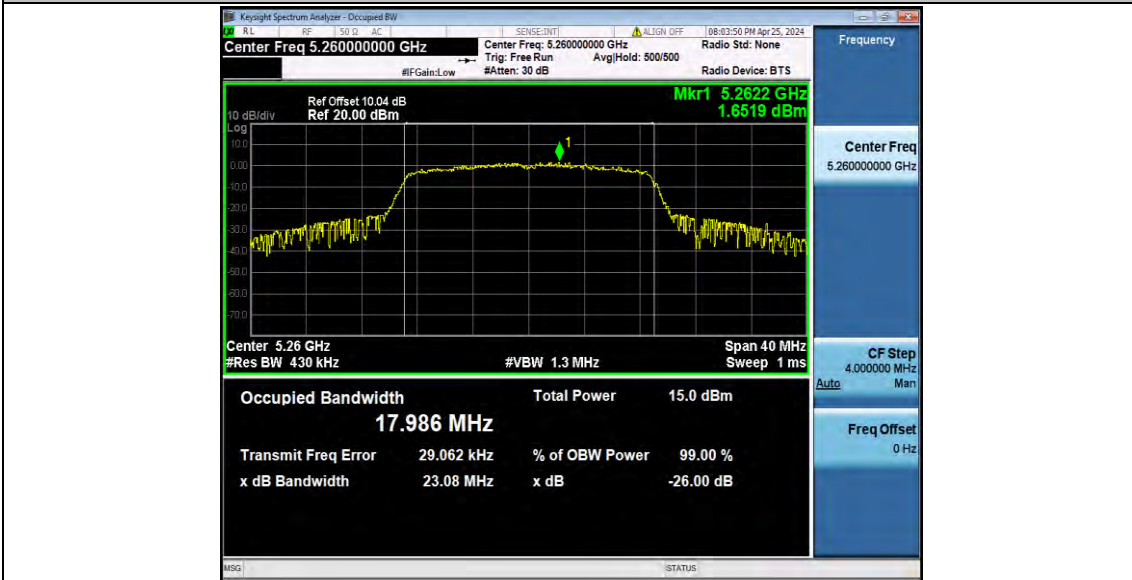
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	17.159	5251.4414	5268.6004	---	---
		5280	16.945	5271.5507	5288.4957	---	---
		5320	16.880	5311.5843	5328.4643	---	---
11N20SISO	Ant1	5260	17.986	5251.0361	5269.0221	---	---
		5280	17.960	5271.0465	5289.0065	---	---
		5320	17.916	5311.0732	5328.9892	---	---
11N40SISO	Ant1	5270	36.660	5251.7882	5288.4482	---	---
		5310	36.288	5291.9622	5328.2502	---	---
11AC20SISO	Ant1	5260	17.862	5251.0927	5268.9547	---	---
		5280	17.870	5271.0968	5288.9668	---	---
		5320	17.839	5311.0834	5328.9224	---	---
11AC40SISO	Ant1	5270	36.313	5251.8918	5288.2048	---	---
		5310	36.300	5291.9316	5328.2316	---	---
11AC80SISO	Ant1	5290	75.264	5252.6247	5327.8887	---	---

Test Graphs

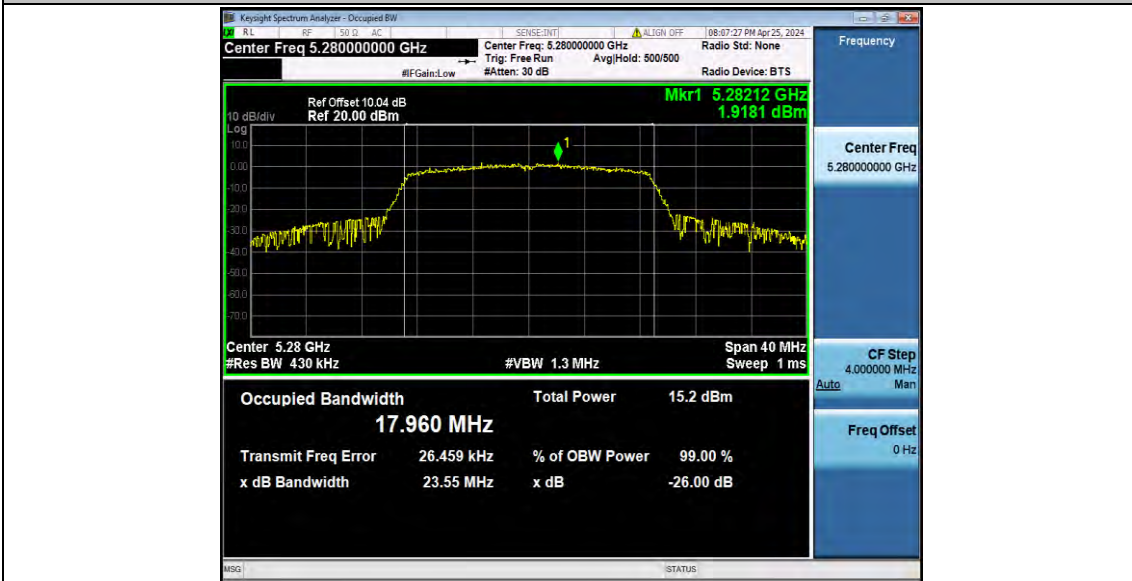




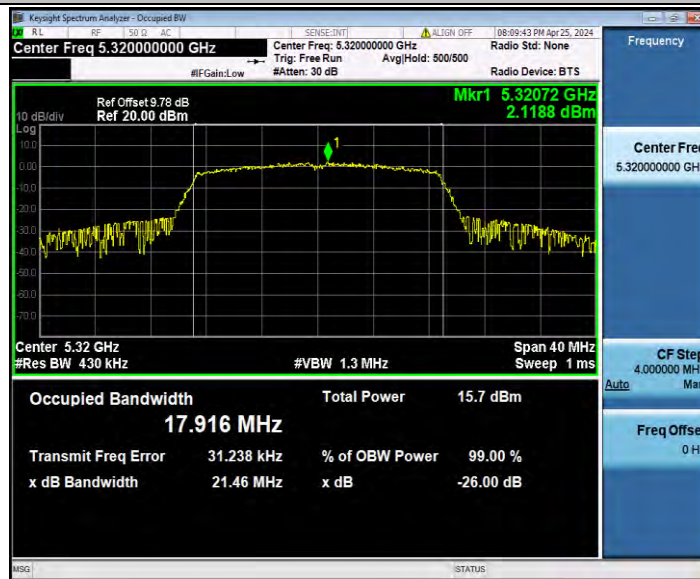
11N20SISO_Ant1_5260



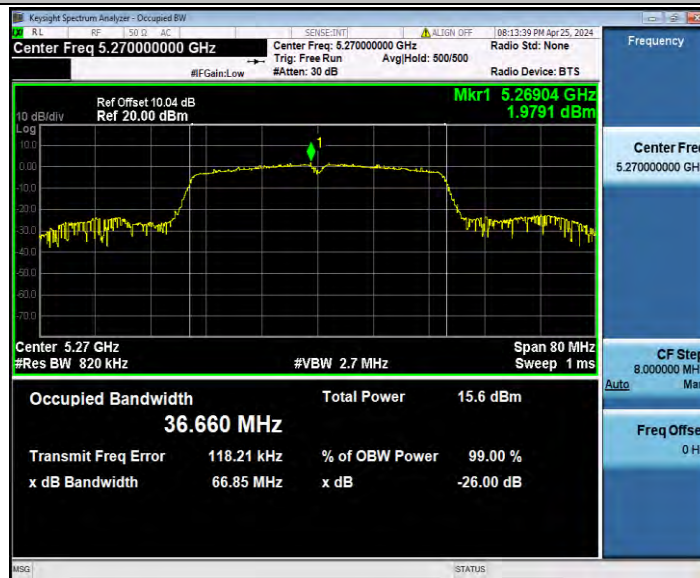
11N20SISO_Ant1_5280



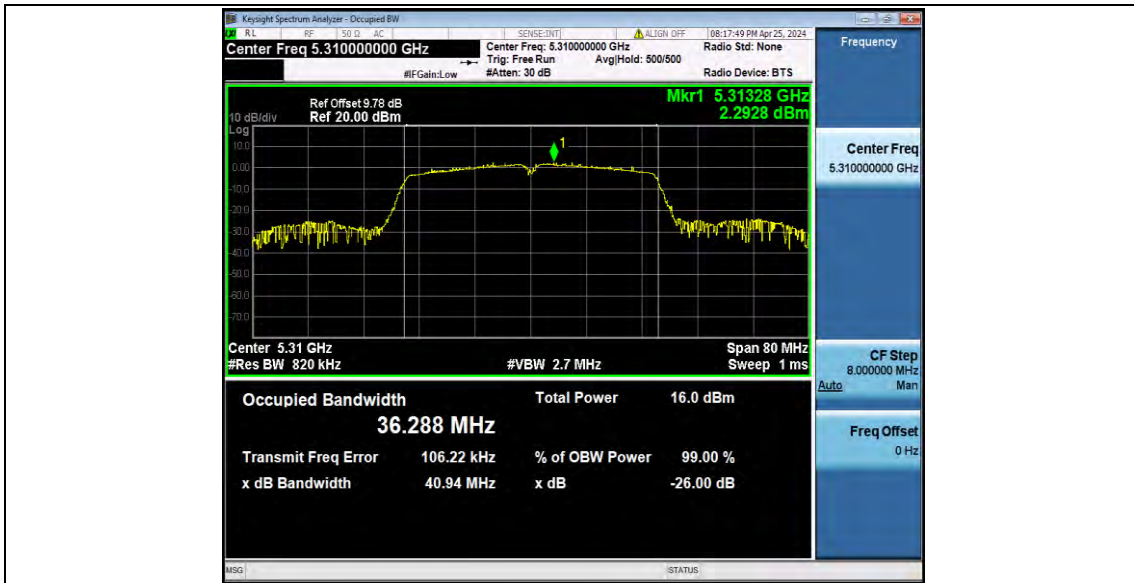
11N20SISO_Ant1_5320



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



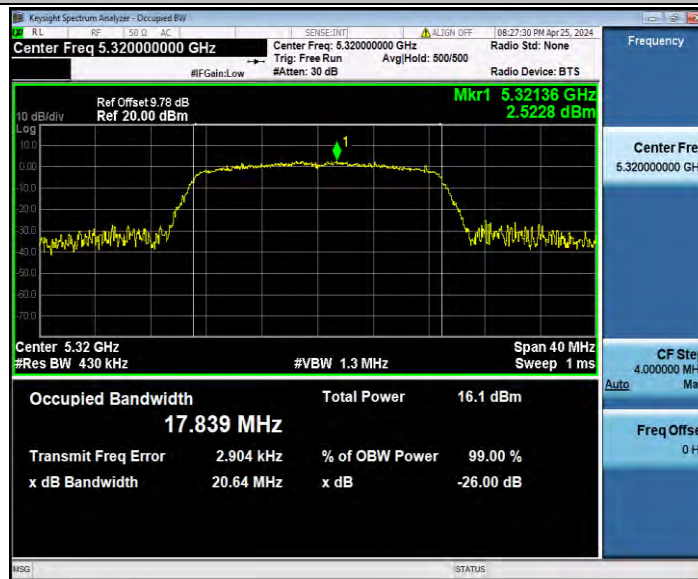
11AC20SISO_Ant1_5260



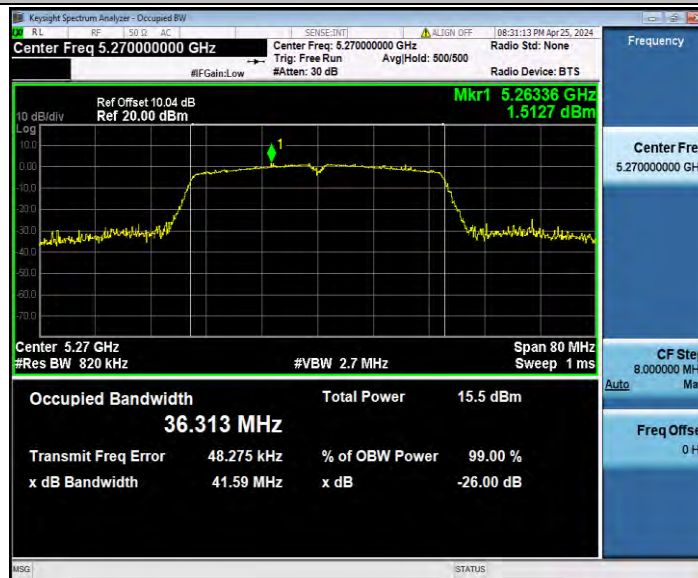
11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290

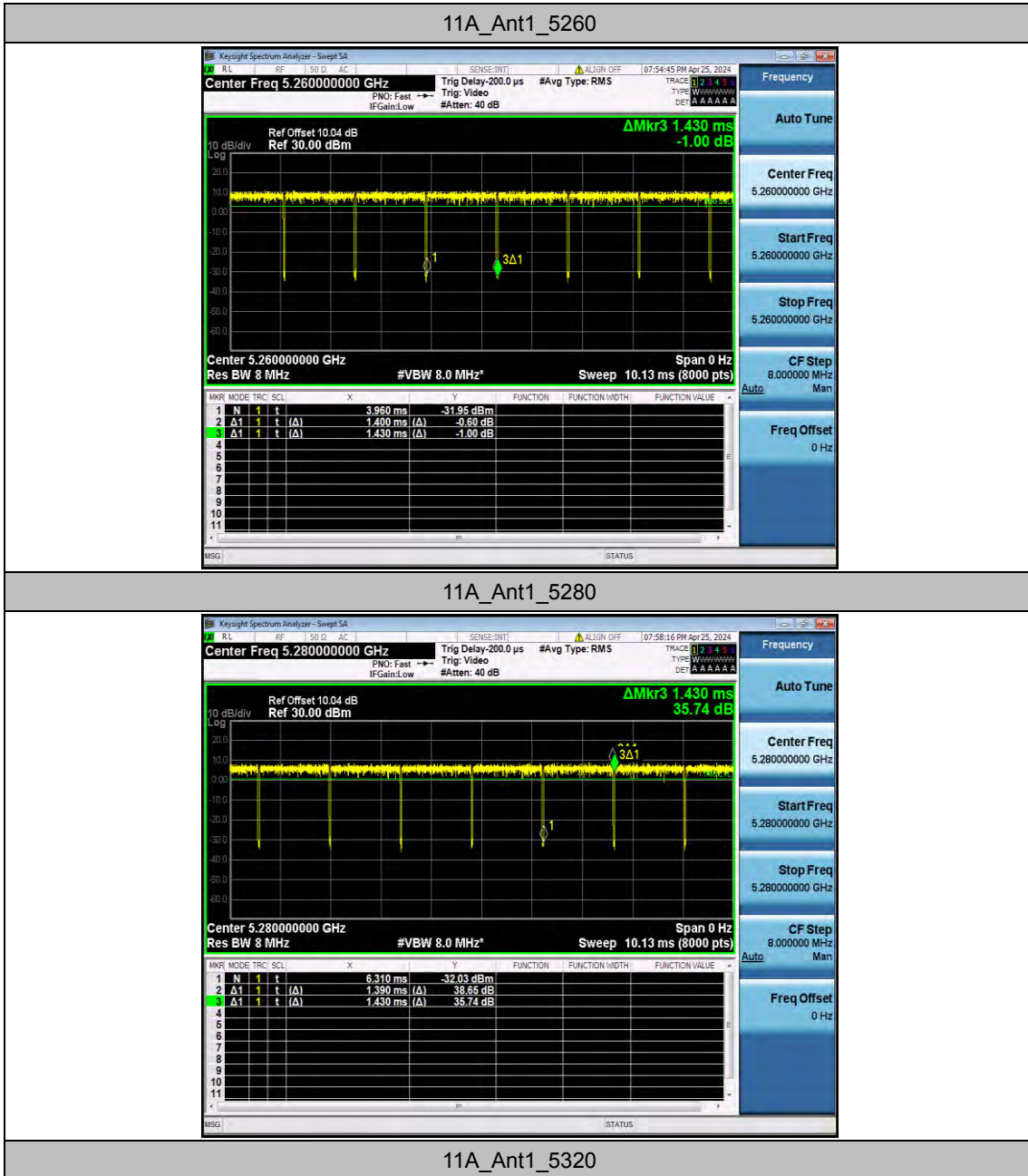


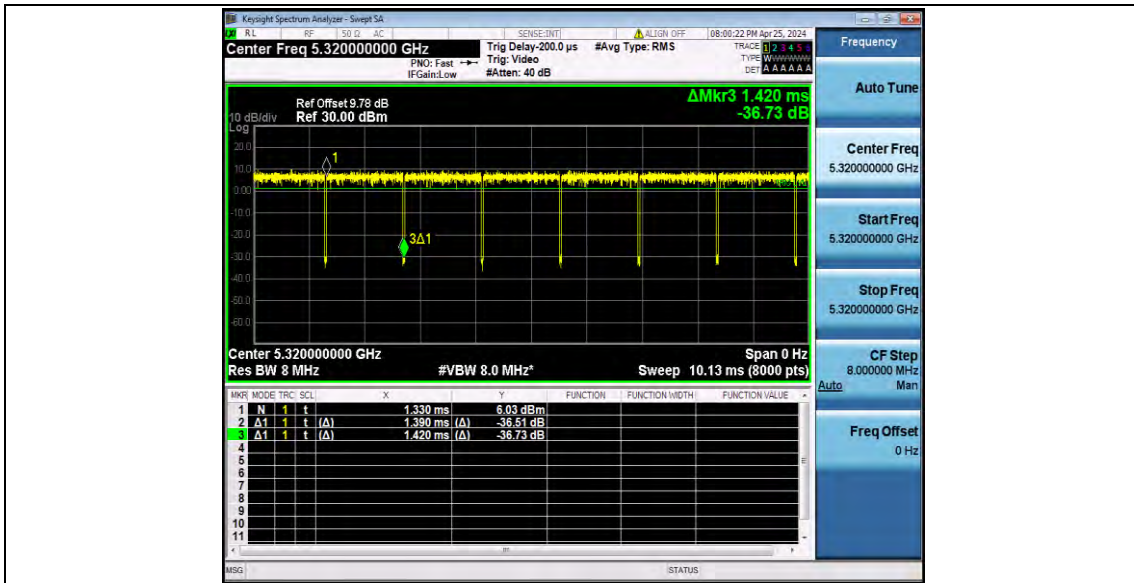
Appendix E.3: Duty Cycle

Test Result

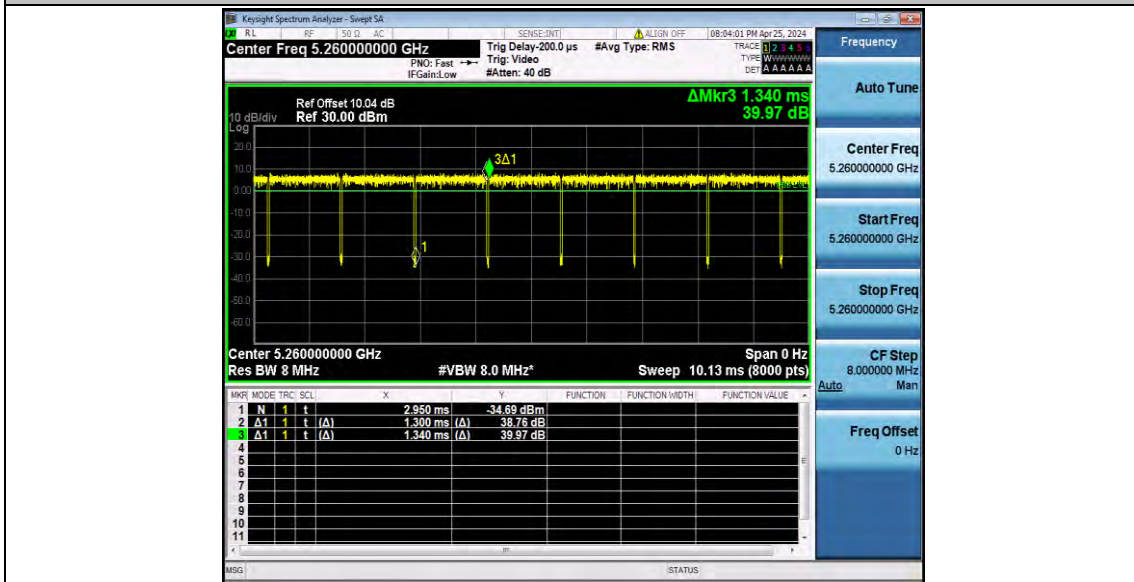
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5260	1.40	1.43	97.90	0.09	0.71
		5280	1.39	1.43	97.20	0.12	0.72
		5320	1.39	1.42	97.89	0.09	0.72
11N20SISO	Ant1	5260	1.30	1.34	97.01	0.13	0.77
		5280	1.29	1.33	96.99	0.13	0.78
		5320	1.30	1.33	97.74	0.10	0.77
11N40SISO	Ant1	5270	0.64	0.68	94.12	0.26	1.56
		5310	0.64	0.68	94.12	0.26	1.56
11AC20SISO	Ant1	5260	1.31	1.35	97.04	0.13	0.76
		5280	1.31	1.35	97.04	0.13	0.76
		5320	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5270	0.65	0.68	95.59	0.20	1.54
		5310	0.65	0.68	95.59	0.20	1.54
11AC80SISO	Ant1	5290	0.32	0.36	88.89	0.51	3.13

Test Graphs

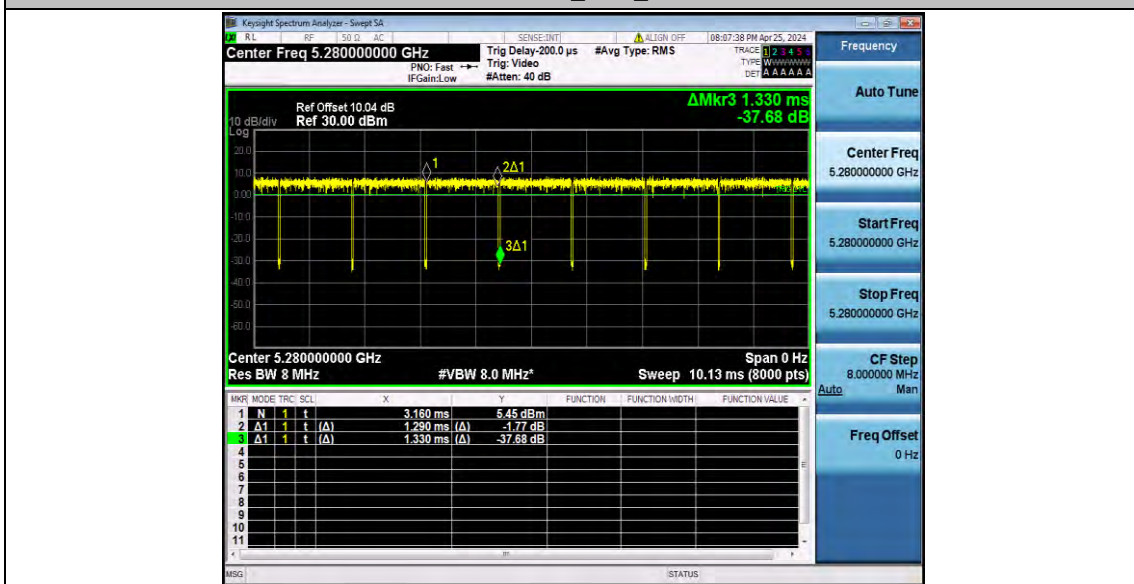




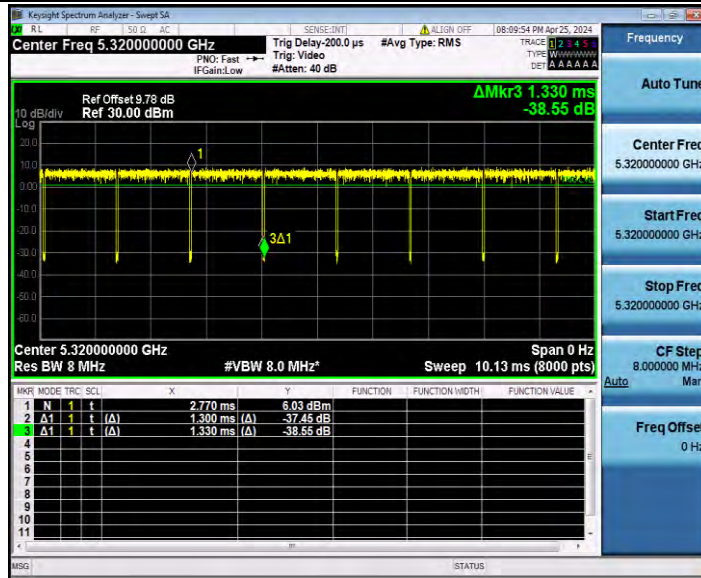
11N20SISO_Ant1_5260



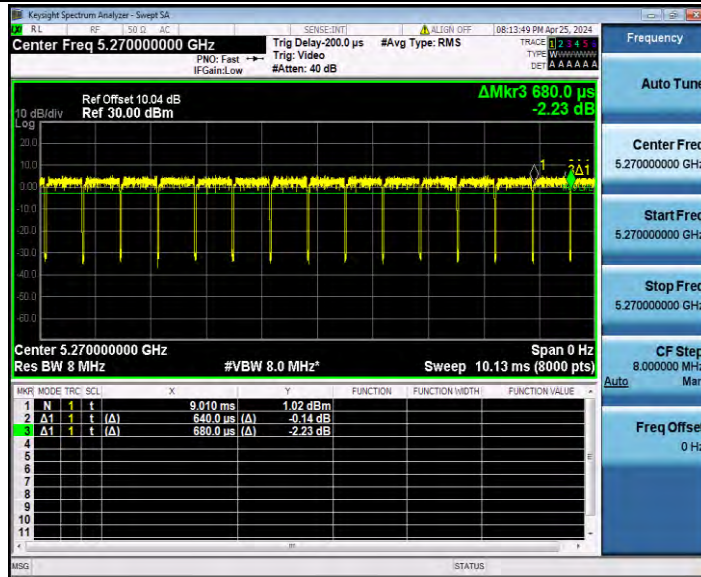
11N20SISO_Ant1_5280



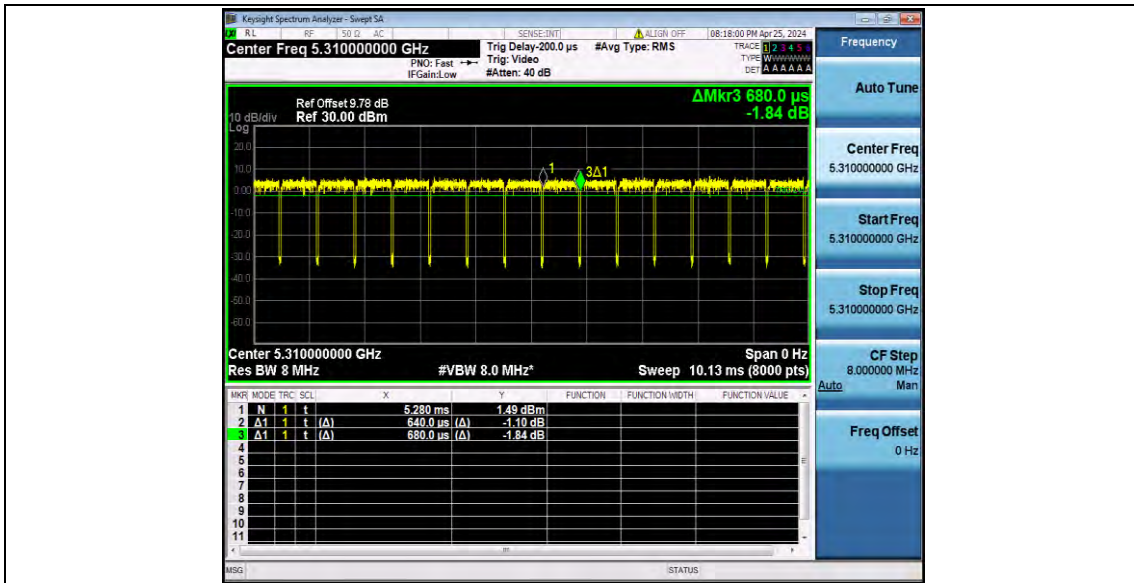
11N20SISO_Ant1_5320



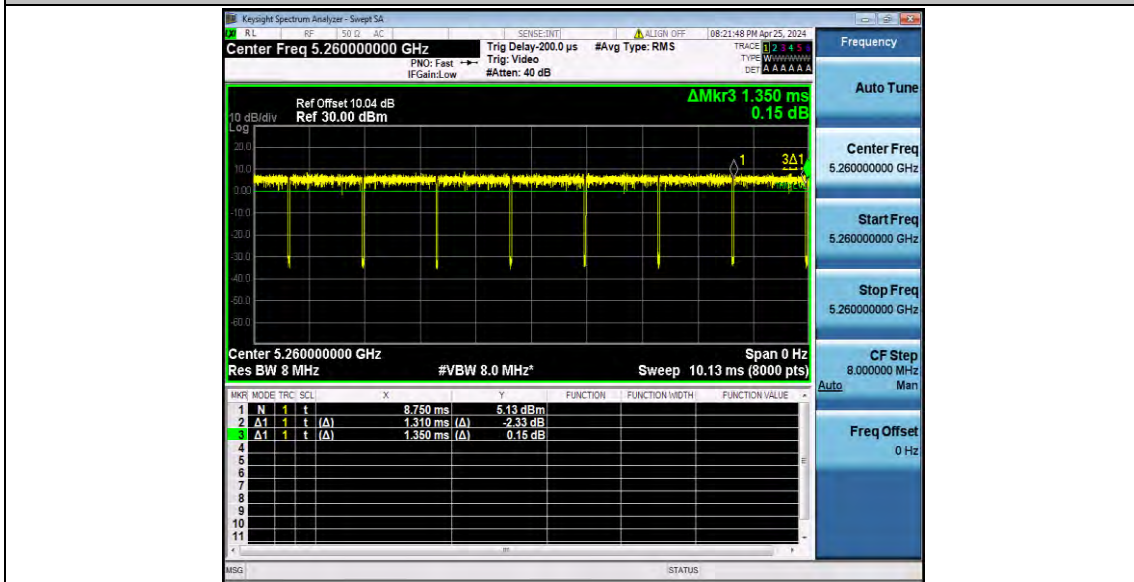
11N40SISO_Ant1_5270



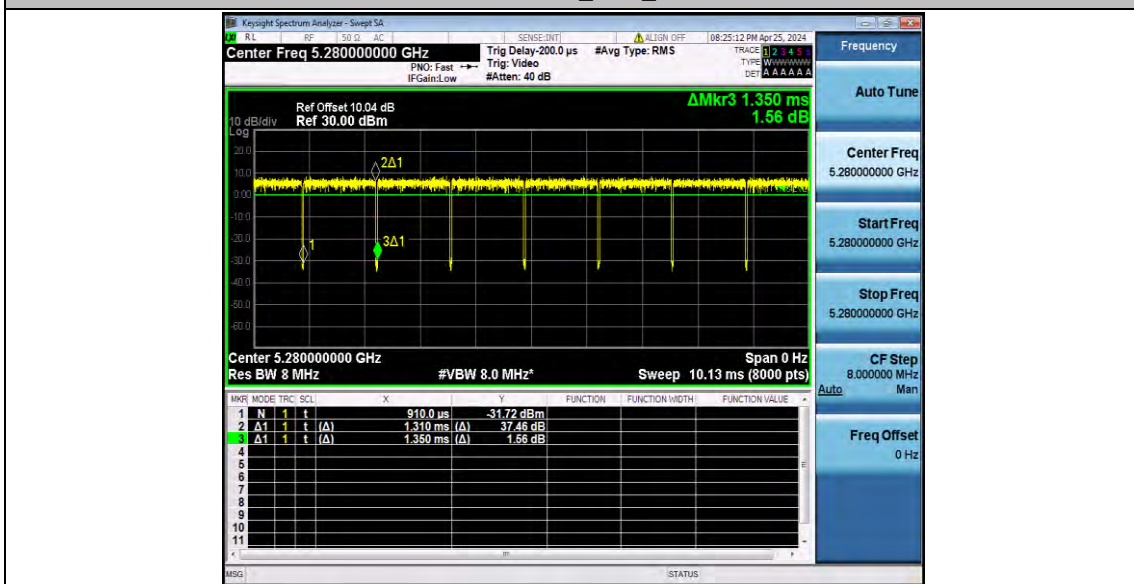
11N40SISO_Ant1_5310



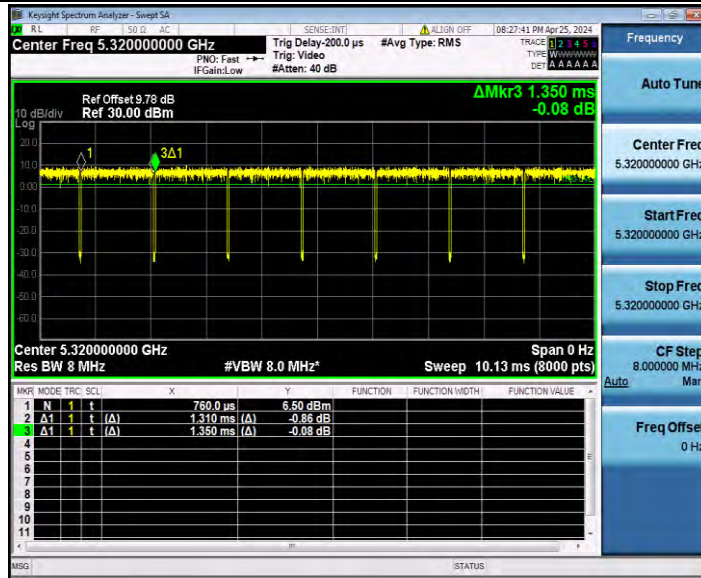
11AC20SISO_Ant1_5260



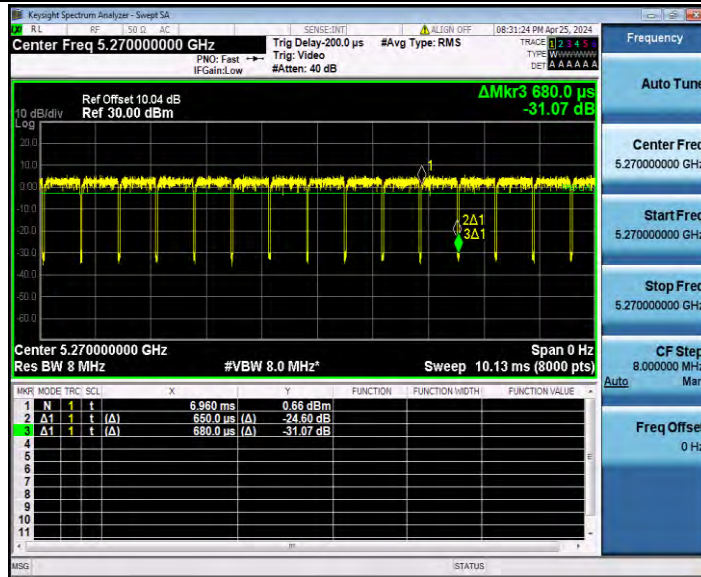
11AC20SISO_Ant1_5280



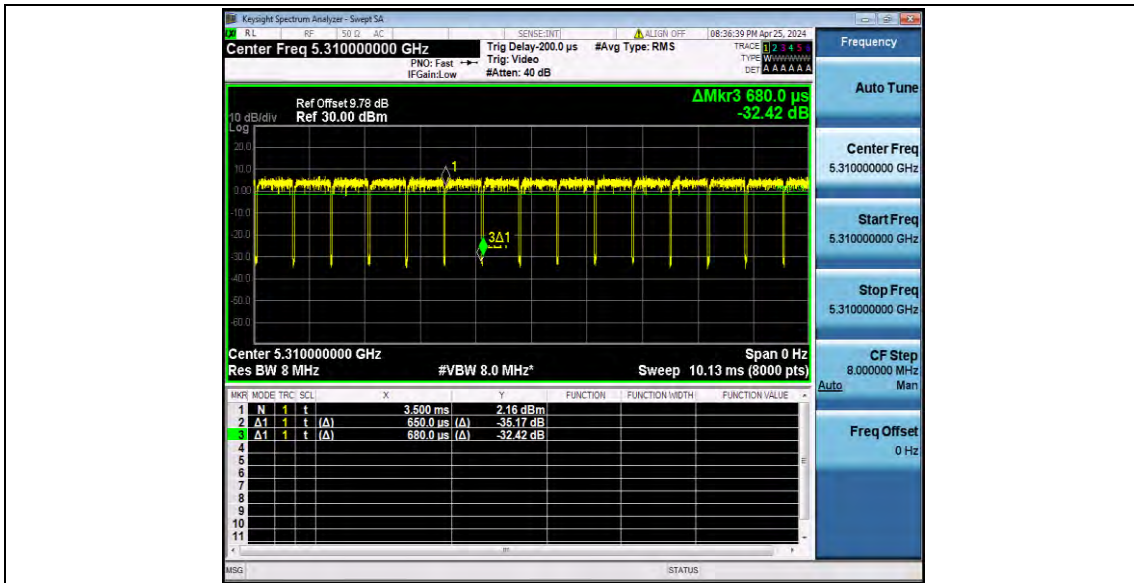
11AC20SISO_Ant1_5320



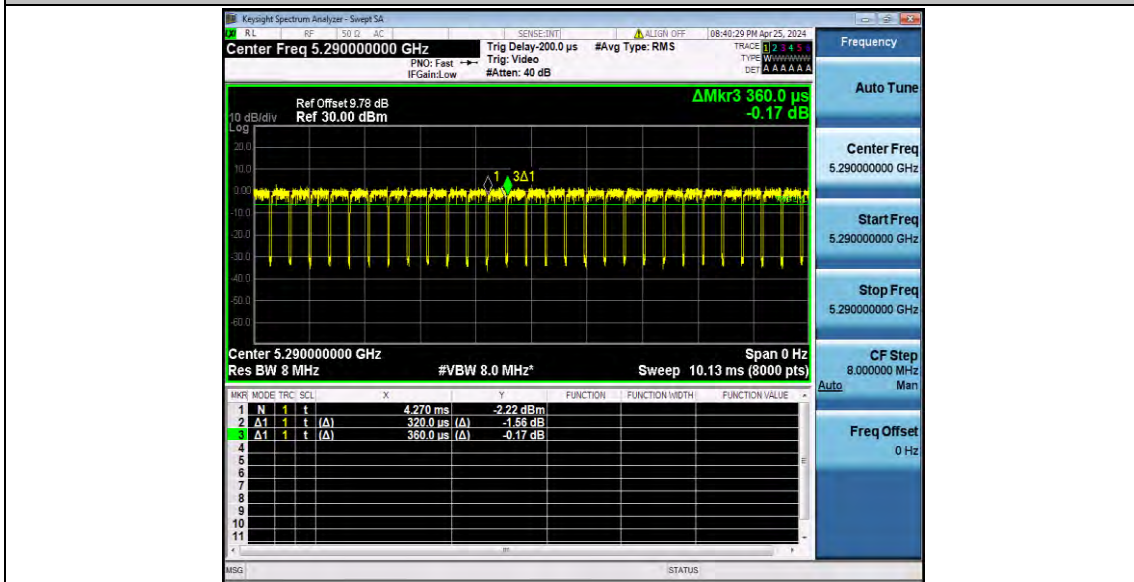
11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



Appendix E.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	10.72	97.90	0.09	10.81	≤23.98	PASS
		5280	8.41	97.20	0.12	8.53	≤23.98	PASS
		5320	8.97	97.89	0.09	9.06	≤23.98	PASS
11N20SISO	Ant1	5260	8.11	97.01	0.13	8.24	≤23.98	PASS
		5280	8.29	96.99	0.13	8.42	≤23.98	PASS
		5320	8.78	97.74	0.10	8.88	≤23.98	PASS
11N40SISO	Ant1	5270	7.97	94.12	0.26	8.23	≤23.98	PASS
		5310	8.50	94.12	0.26	8.76	≤23.98	PASS
11AC20SISO	Ant1	5260	8.05	97.04	0.13	8.18	≤23.98	PASS
		5280	8.16	97.04	0.13	8.29	≤23.98	PASS
		5320	9.22	97.04	0.13	9.35	≤23.98	PASS
11AC40SISO	Ant1	5270	7.95	95.59	0.20	8.15	≤23.98	PASS
		5310	9.03	95.59	0.20	9.23	≤23.98	PASS
11AC80SISO	Ant1	5290	7.78	88.89	0.51	8.29	≤23.98	PASS

Note:

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

Appendix E.5: Maximum power spectral density

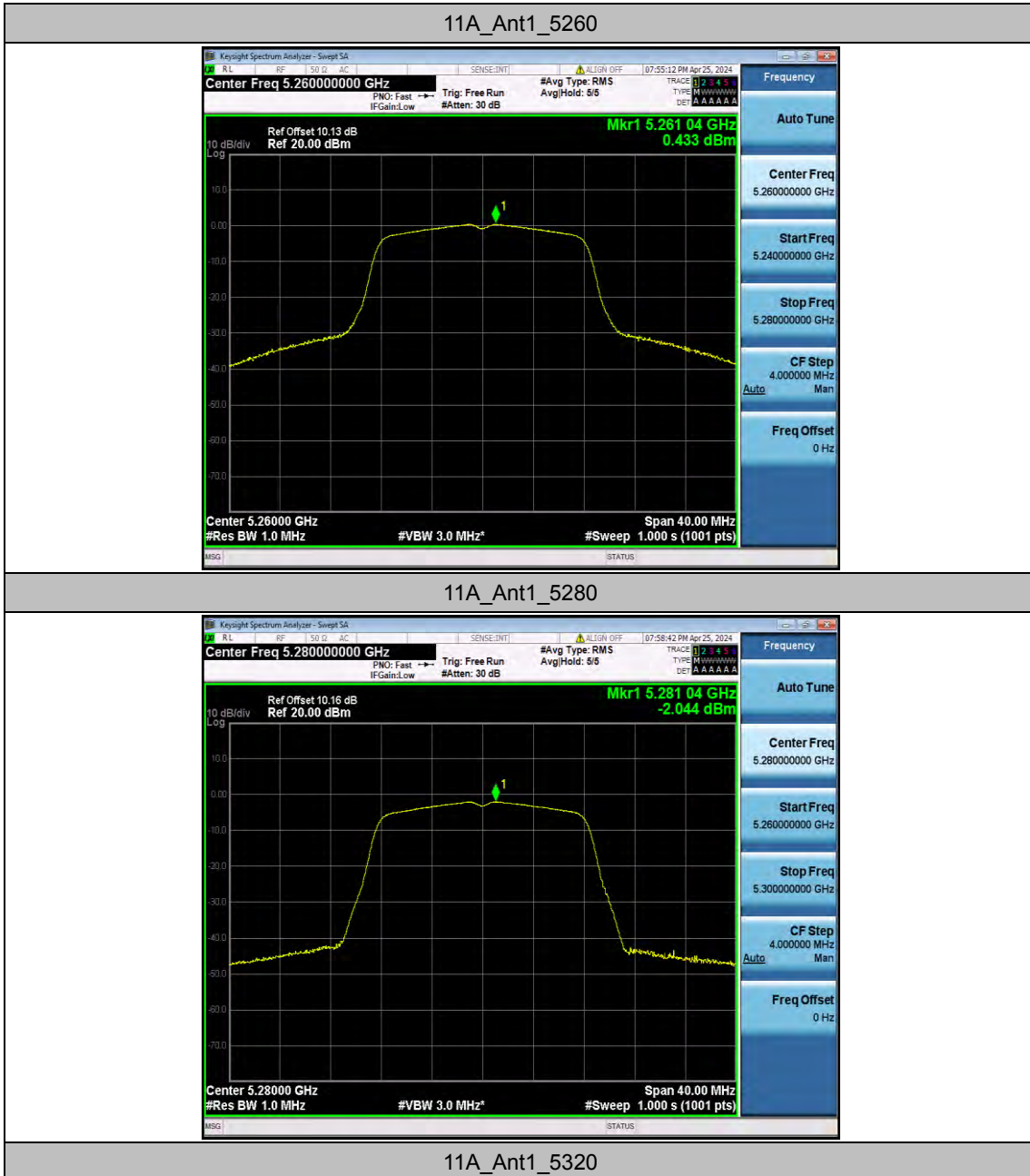
Test Result

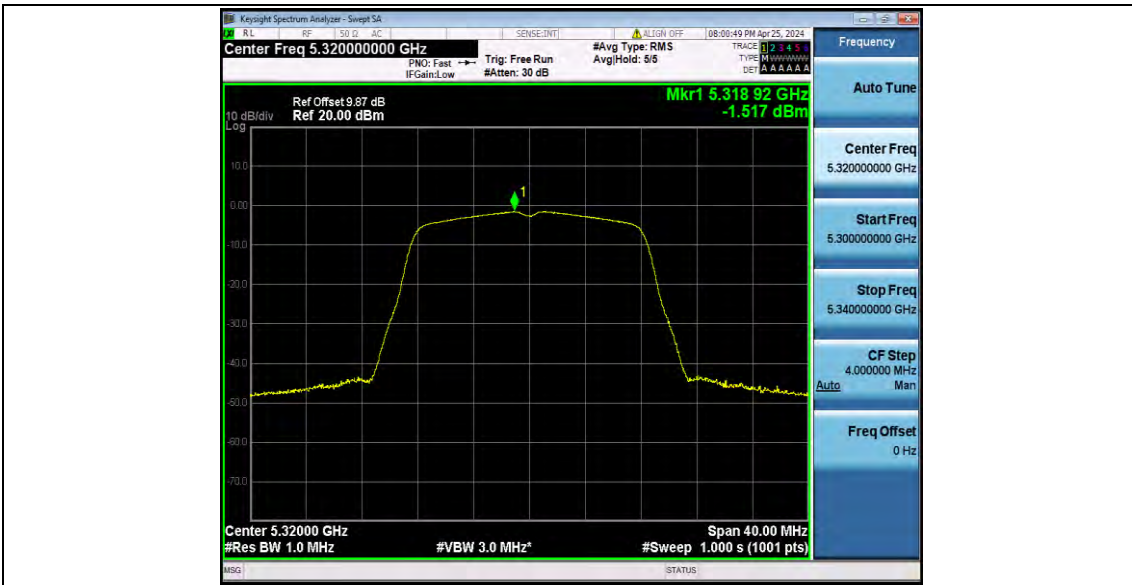
TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5260	0.43	≤11.00	PASS
		5280	-2.04	≤11.00	PASS
		5320	-1.52	≤11.00	PASS
11N20SISO	Ant1	5260	-2.46	≤11.00	PASS
		5280	-2.33	≤11.00	PASS
		5320	-1.86	≤11.00	PASS
11N40SISO	Ant1	5270	-5.32	≤11.00	PASS
		5310	-4.61	≤11.00	PASS
11AC20SISO	Ant1	5260	-2.60	≤11.00	PASS
		5280	-2.40	≤11.00	PASS
		5320	-1.37	≤11.00	PASS
11AC40SISO	Ant1	5270	-5.44	≤11.00	PASS
		5310	-4.09	≤11.00	PASS
11AC80SISO	Ant1	5290	-8.51	≤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





11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



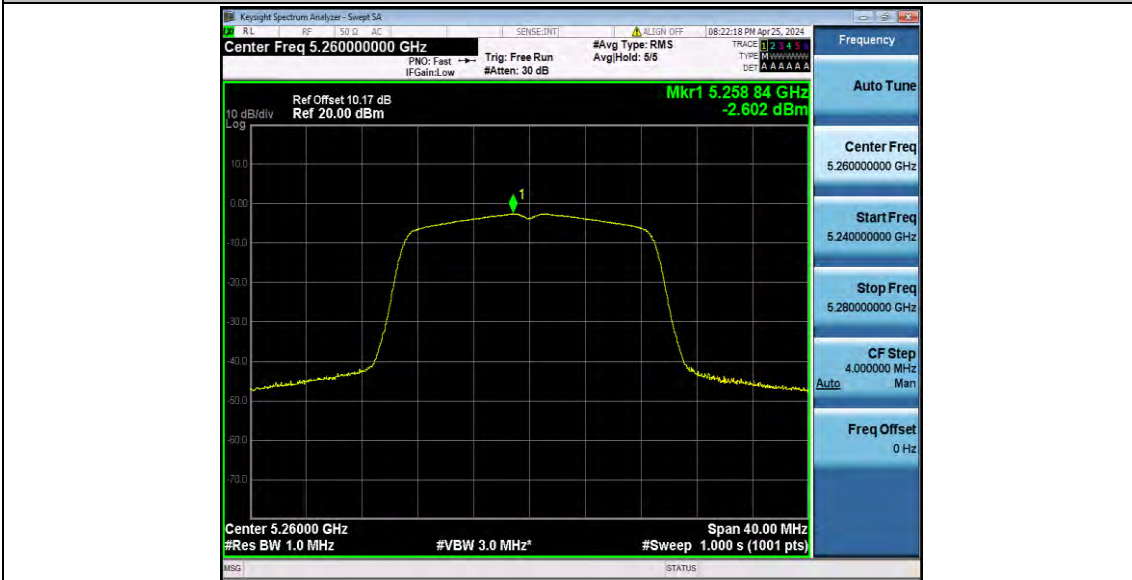
11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290

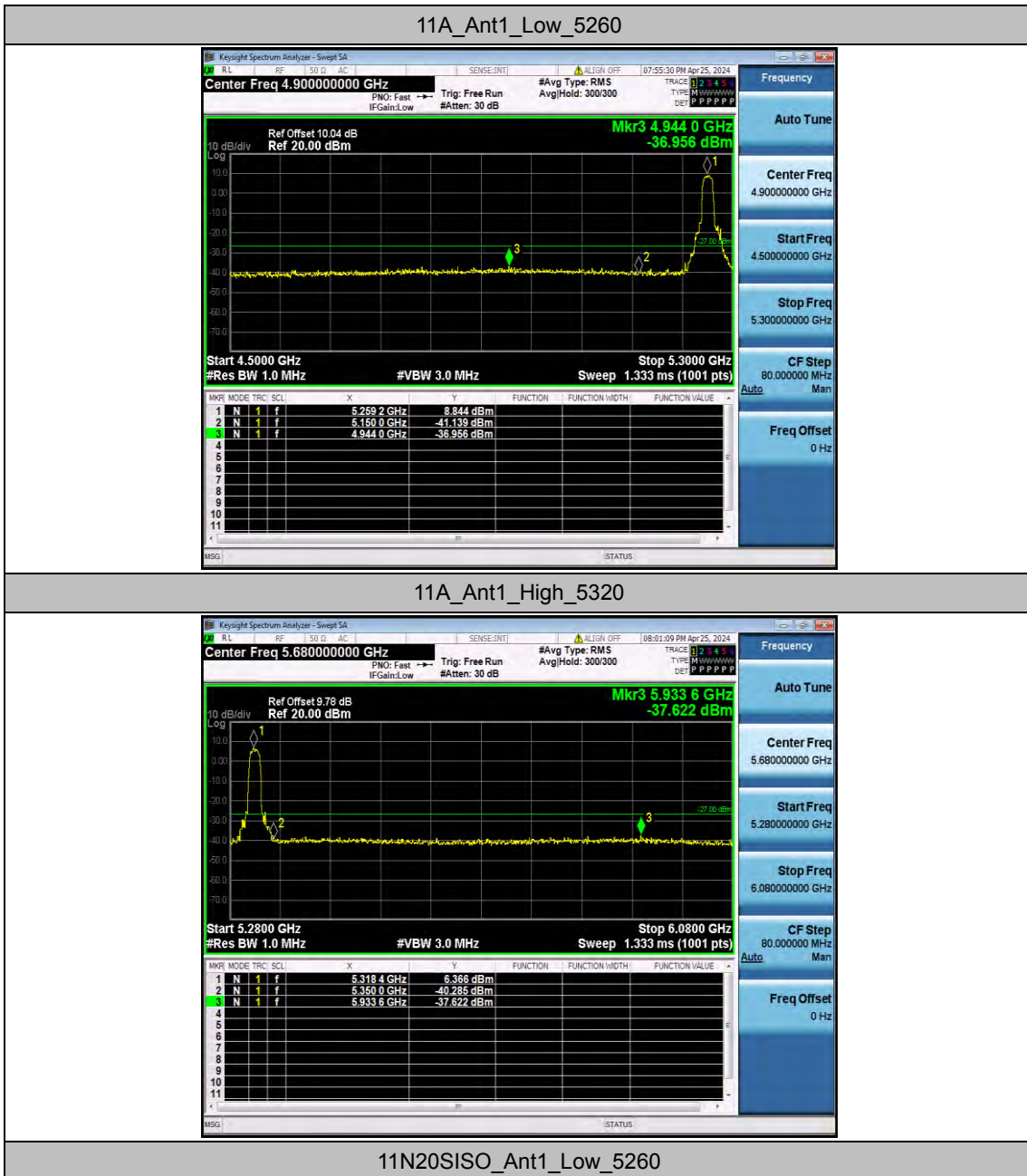


Appendix E.6: Band edge measurements

Test Result B2

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5260	-36.96	≤-27	PASS
		High	5320	-37.62	≤-27	PASS
11N20SISO	Ant1	Low	5260	-36.64	≤-27	PASS
		High	5320	-36.2	≤-27	PASS
11N40SISO	Ant1	Low	5270	-37.09	≤-27	PASS
		High	5310	-32.25	≤-27	PASS
11AC20SISO	Ant1	Low	5260	-37.46	≤-27	PASS
		High	5320	-37.46	≤-27	PASS
11AC40SISO	Ant1	Low	5270	-36.31	≤-27	PASS
		High	5310	-33.94	≤-27	PASS
11AC80SISO	Ant1	Low	5290	-37.13	≤-27	PASS
		High	5290	-29.7	≤-27	PASS

Test Graphs B2





11N20SISO_Ant1_High_5320



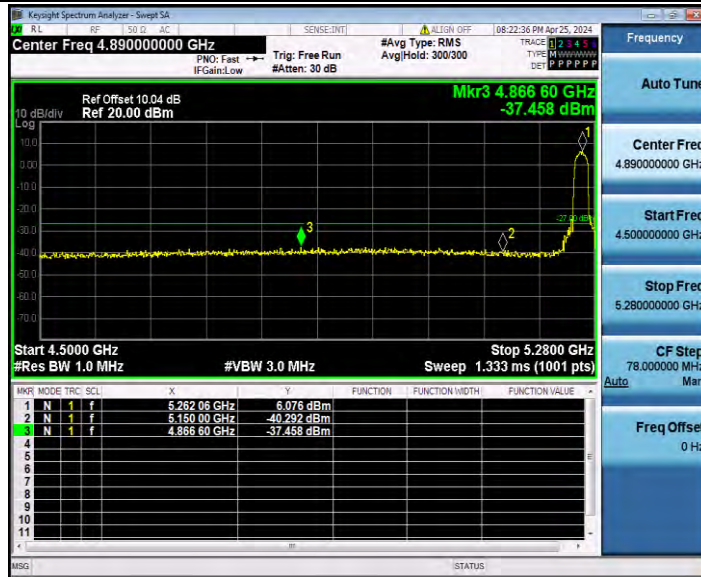
11N40SISO_Ant1_Low_5270



11N40SISO_Ant1_High_5310



11AC20SISO_Ant1_Low_5260



11AC20SISO_Ant1_High_5320



11AC40SISO_Ant1_Low_5270



11AC40SISO_Ant1_High_5310



11AC80SISO_Ant1_Low_5290



11AC80SISO_Ant1_High_5290

