

Appendix: 5G Wi-Fi

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Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.28	5169.36	5190.64	---	---
11A	Ant1	5220	21.28	5209.36	5230.64	---	---
11A	Ant1	5240	21.20	5229.40	5250.60	---	---
11A	Ant1	5745	21.40	5734.28	5755.68	---	---
11A	Ant1	5785	21.28	5774.36	5795.64	---	---
11A	Ant1	5825	21.40	5814.28	5835.68	---	---
11N20SISO	Ant1	5180	21.76	5169.20	5190.96	---	---
11N20SISO	Ant1	5220	21.68	5209.24	5230.92	---	---
11N20SISO	Ant1	5240	21.80	5229.16	5250.96	---	---
11N20SISO	Ant1	5745	21.56	5734.20	5755.76	---	---
11N20SISO	Ant1	5785	21.72	5774.20	5795.92	---	---
11N20SISO	Ant1	5825	21.76	5814.16	5835.92	---	---

Test Graphs













Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq (MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.859	5171.0630	5188.9220	---	---
11A	Ant1	5220	17.837	5211.0807	5228.9176	---	---
11A	Ant1	5240	17.836	5231.0639	5248.8997	---	---
11A	Ant1	5745	17.801	5736.0839	5753.8850	---	---
11A	Ant1	5785	17.807	5776.0787	5793.8854	---	---
11A	Ant1	5825	17.788	5816.0848	5833.8730	---	---
11N20SISO	Ant1	5180	18.749	5170.6641	5189.4132	---	---
11N20SISO	Ant1	5220	18.733	5210.6625	5229.3951	---	---
11N20SISO	Ant1	5240	18.764	5230.6362	5249.4000	---	---
11N20SISO	Ant1	5745	18.713	5735.6212	5754.3345	---	---
11N20SISO	Ant1	5785	18.694	5775.6453	5794.3391	---	---
11N20SISO	Ant1	5825	18.698	5815.6488	5834.3468	---	---

Test Graphs













Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.36	5736.80	5753.16	0.5	PASS
11A	Ant1	5785	16.36	5776.80	5793.16	0.5	PASS
11A	Ant1	5825	16.36	5816.80	5833.16	0.5	PASS
11N20SISO	Ant1	5745	17.60	5736.16	5753.76	0.5	PASS
11N20SISO	Ant1	5785	17.60	5776.20	5793.80	0.5	PASS
11N20SISO	Ant1	5825	17.56	5816.20	5833.76	0.5	PASS

Test Graphs B4







Appendix B: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.43	1.53	93.46	---	---
11A	Ant1	5220	1.43	1.54	92.86	---	---
11A	Ant1	5240	1.43	1.54	92.86	---	---
11A	Ant1	5745	1.43	1.53	93.46	---	---
11A	Ant1	5785	1.43	1.54	92.86	---	---
11A	Ant1	5825	1.42	1.53	92.81	---	---
11N20SISO	Ant1	5180	1.34	1.44	93.06	---	---
11N20SISO	Ant1	5220	1.34	1.44	93.06	---	---
11N20SISO	Ant1	5240	1.33	1.44	92.36	---	---
11N20SISO	Ant1	5745	1.33	1.44	92.36	---	---
11N20SISO	Ant1	5785	1.34	1.44	93.06	---	---
11N20SISO	Ant1	5825	1.33	1.44	92.36	---	---

Test Graphs













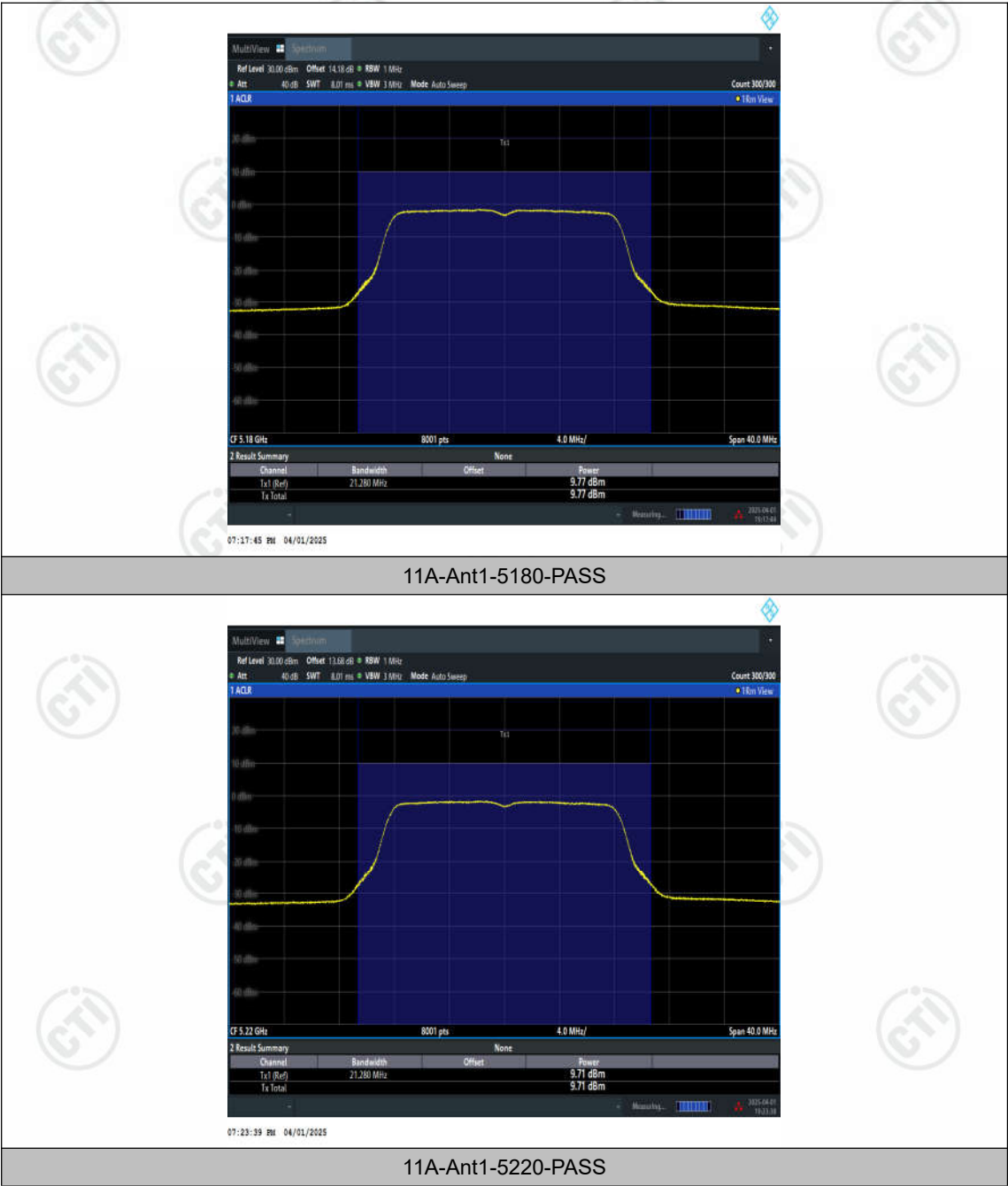
Appendix C: Maximum conducted output power

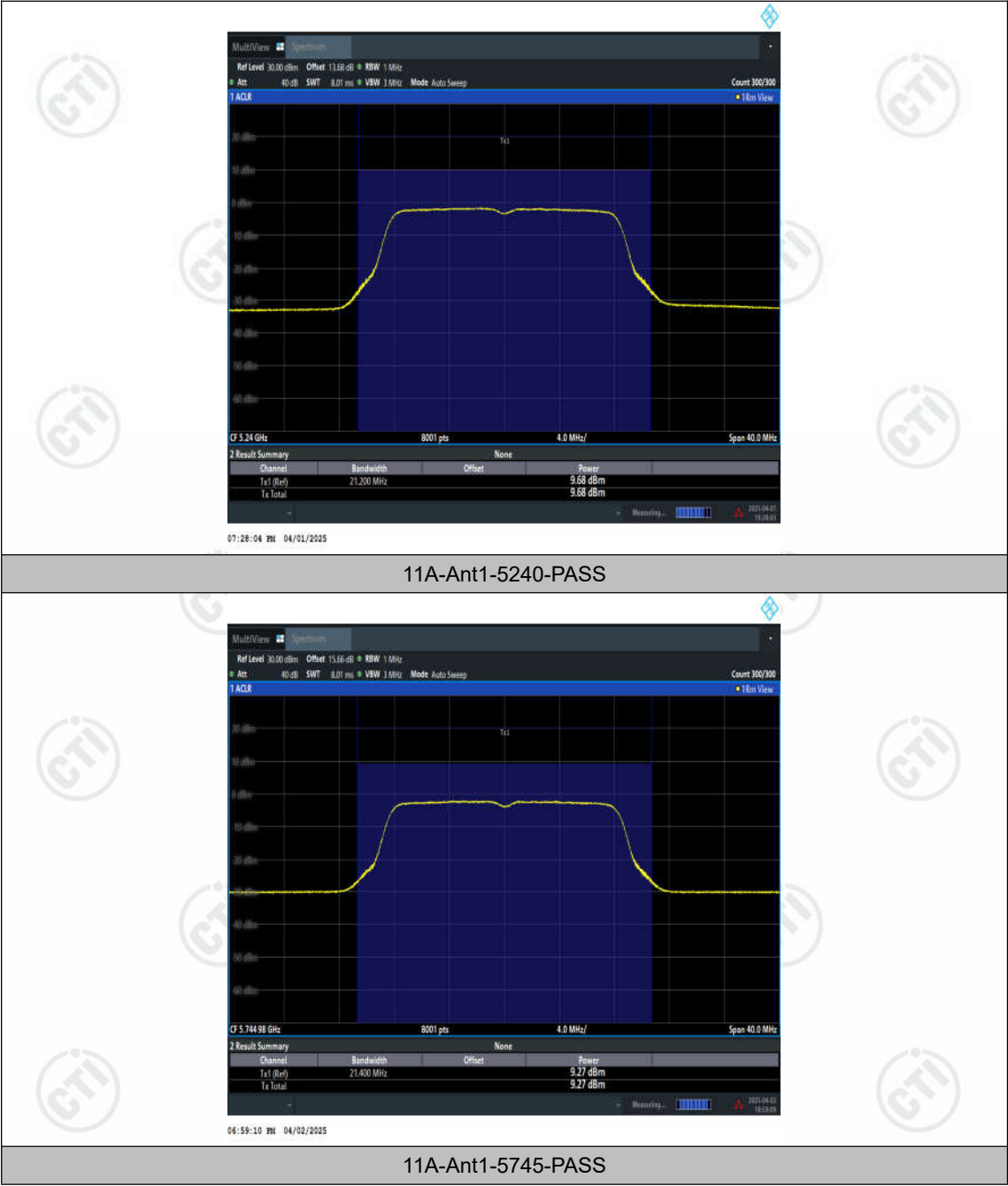
Test Result Channel Power

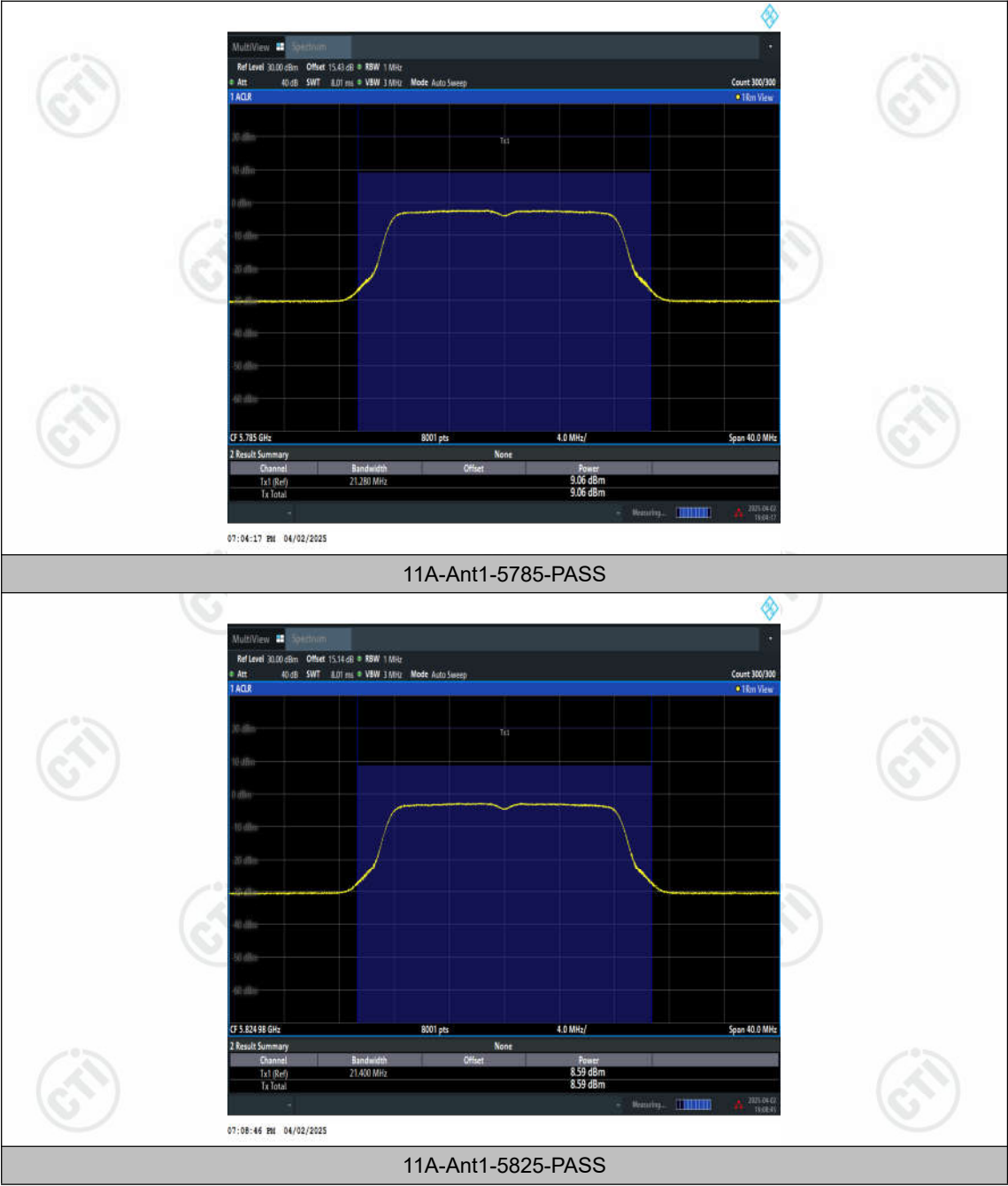
Test Mode	Antenna	Freq (MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	9.48	93.46	0.29	9.77	≤20.42	PASS
11A	Ant1	5220	9.39	92.86	0.32	9.71	≤20.41	PASS
11A	Ant1	5240	9.36	92.86	0.32	9.68	≤20.41	PASS
11A	Ant1	5745	8.98	93.46	0.29	9.27	≤30.00	PASS
11A	Ant1	5785	8.74	92.86	0.32	9.06	≤30.00	PASS
11A	Ant1	5825	8.27	92.81	0.32	8.59	≤30.00	PASS
11N20SISO	Ant1	5180	9.28	93.06	0.31	9.59	≤20.63	PASS
11N20SISO	Ant1	5220	9.26	93.06	0.31	9.57	≤20.63	PASS
11N20SISO	Ant1	5240	9.40	92.36	0.35	9.75	≤20.63	PASS
11N20SISO	Ant1	5745	8.73	92.36	0.35	9.08	≤30.00	PASS
11N20SISO	Ant1	5785	8.53	93.06	0.31	8.84	≤30.00	PASS
11N20SISO	Ant1	5825	8.29	92.36	0.35	8.64	≤30.00	PASS

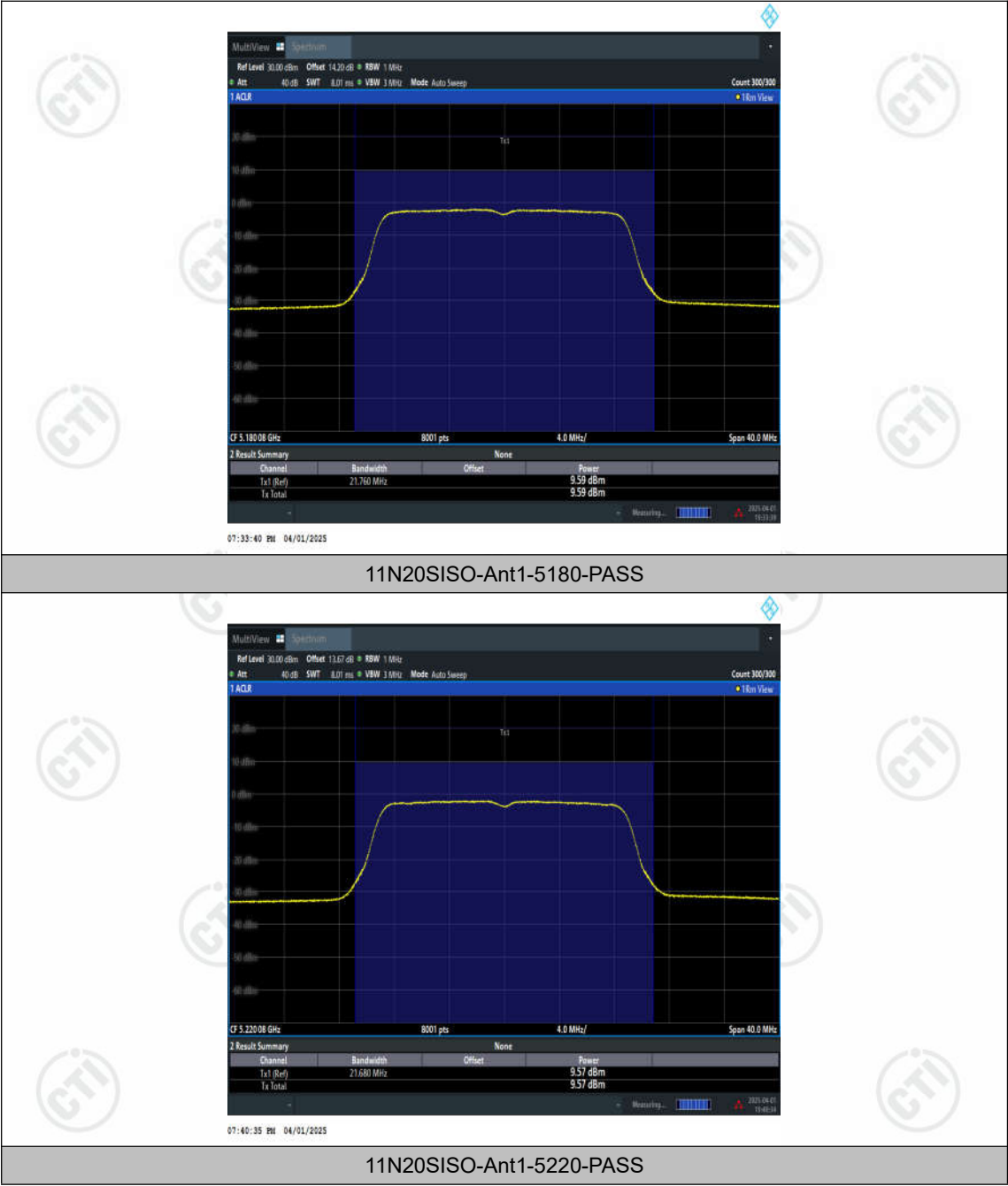
Note: The Duty Cycle Factor is compensated in the graph.

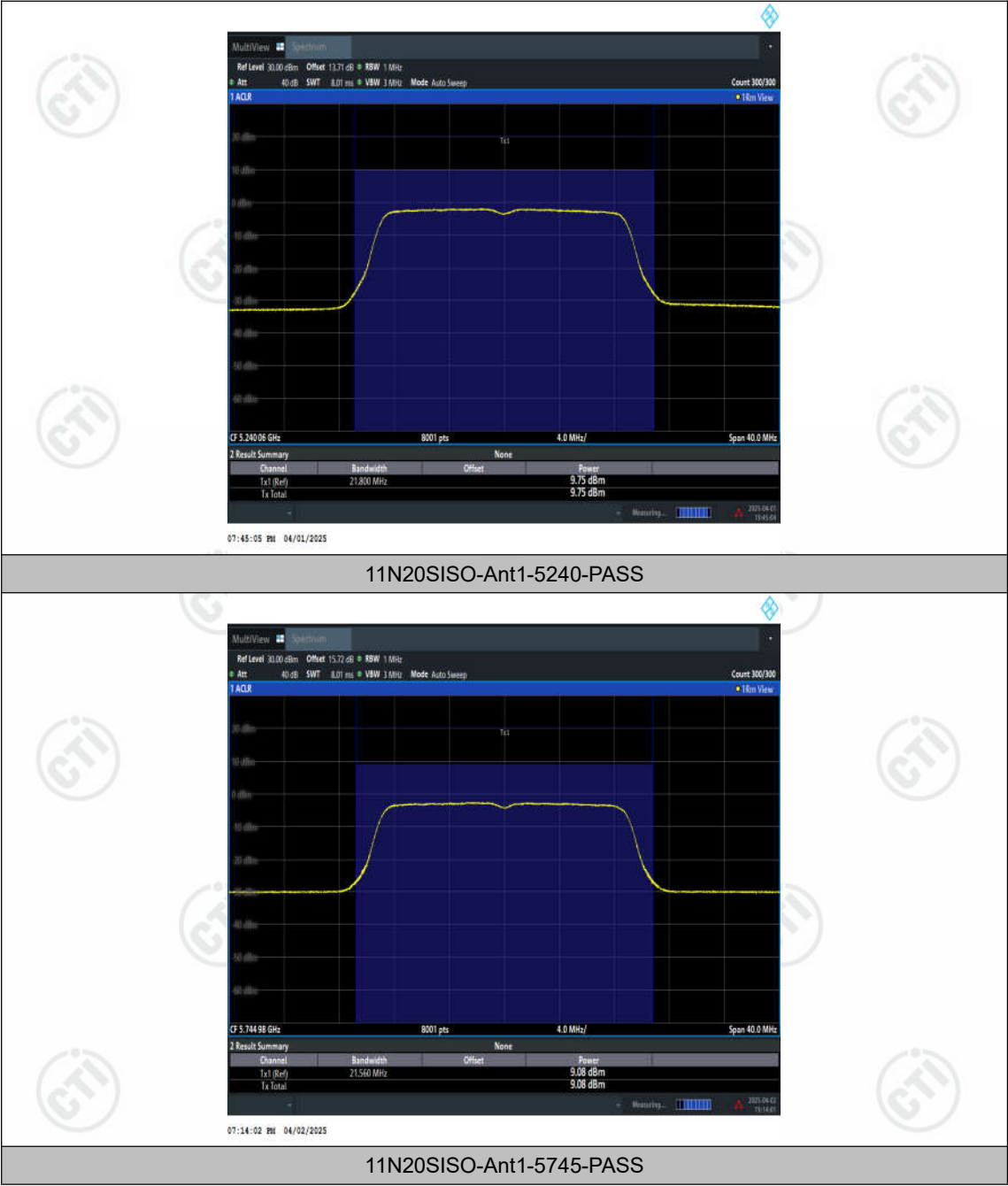
Test Graphs Channel Power

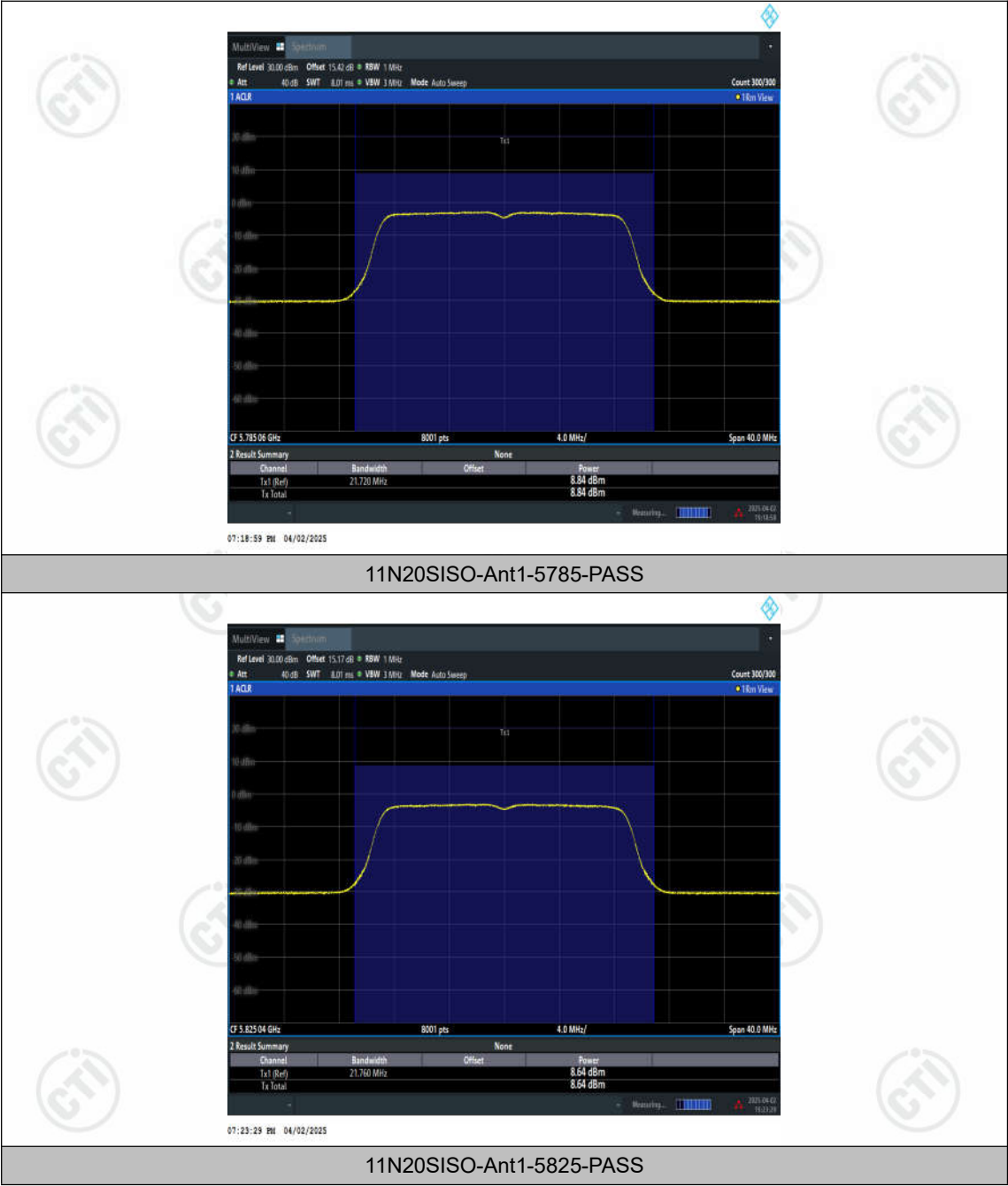












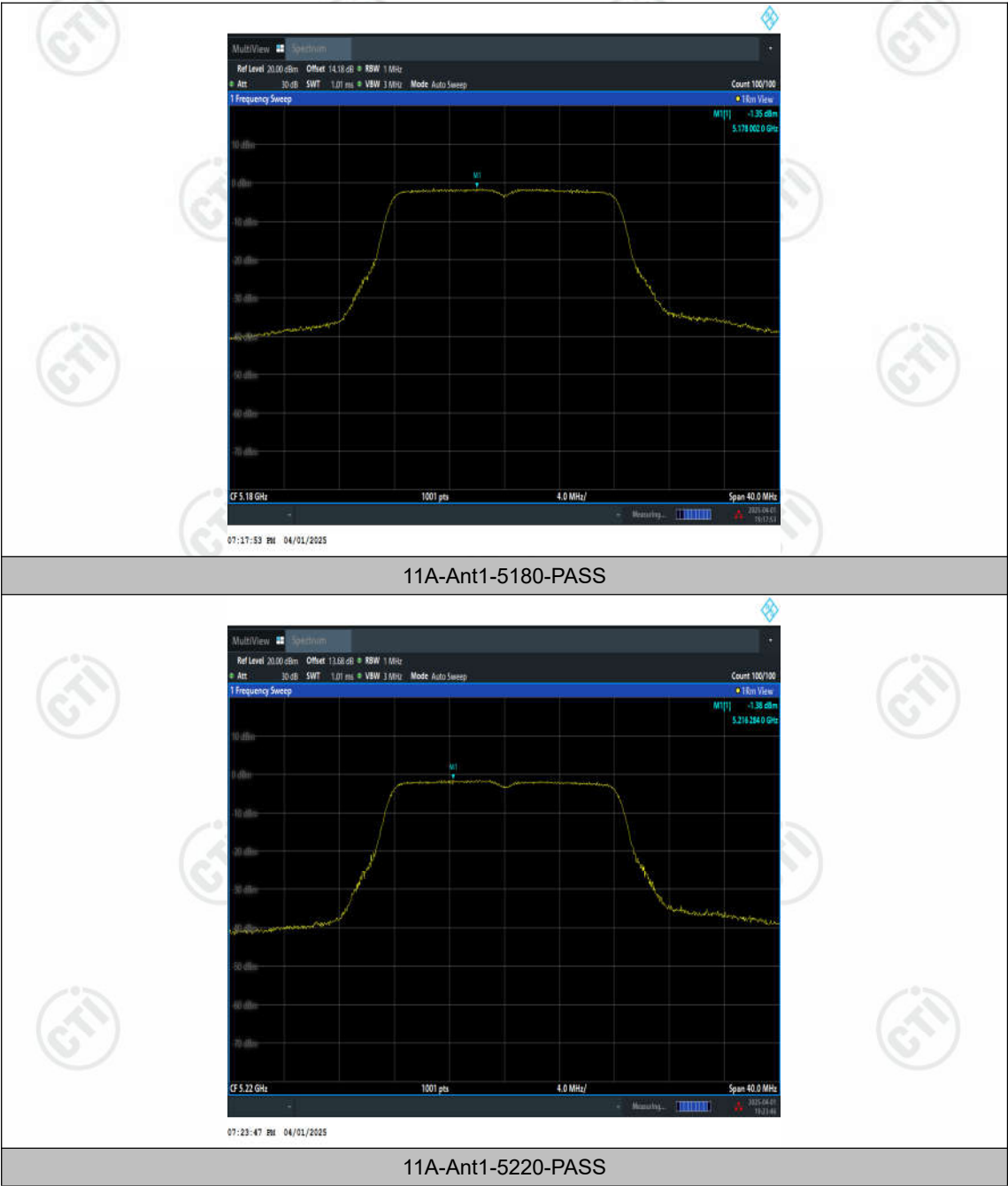
Appendix D: Maximum power spectral density

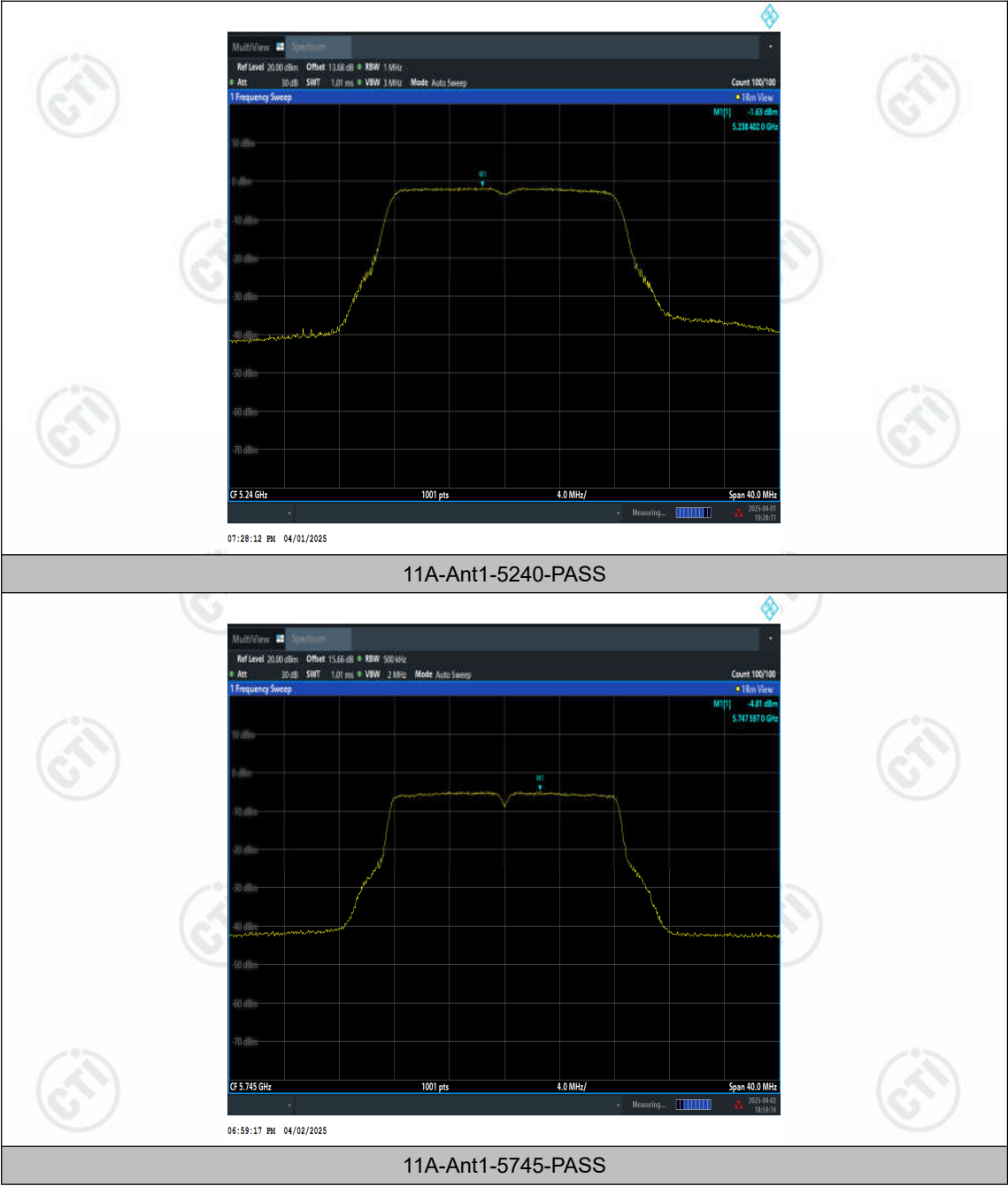
Test Result

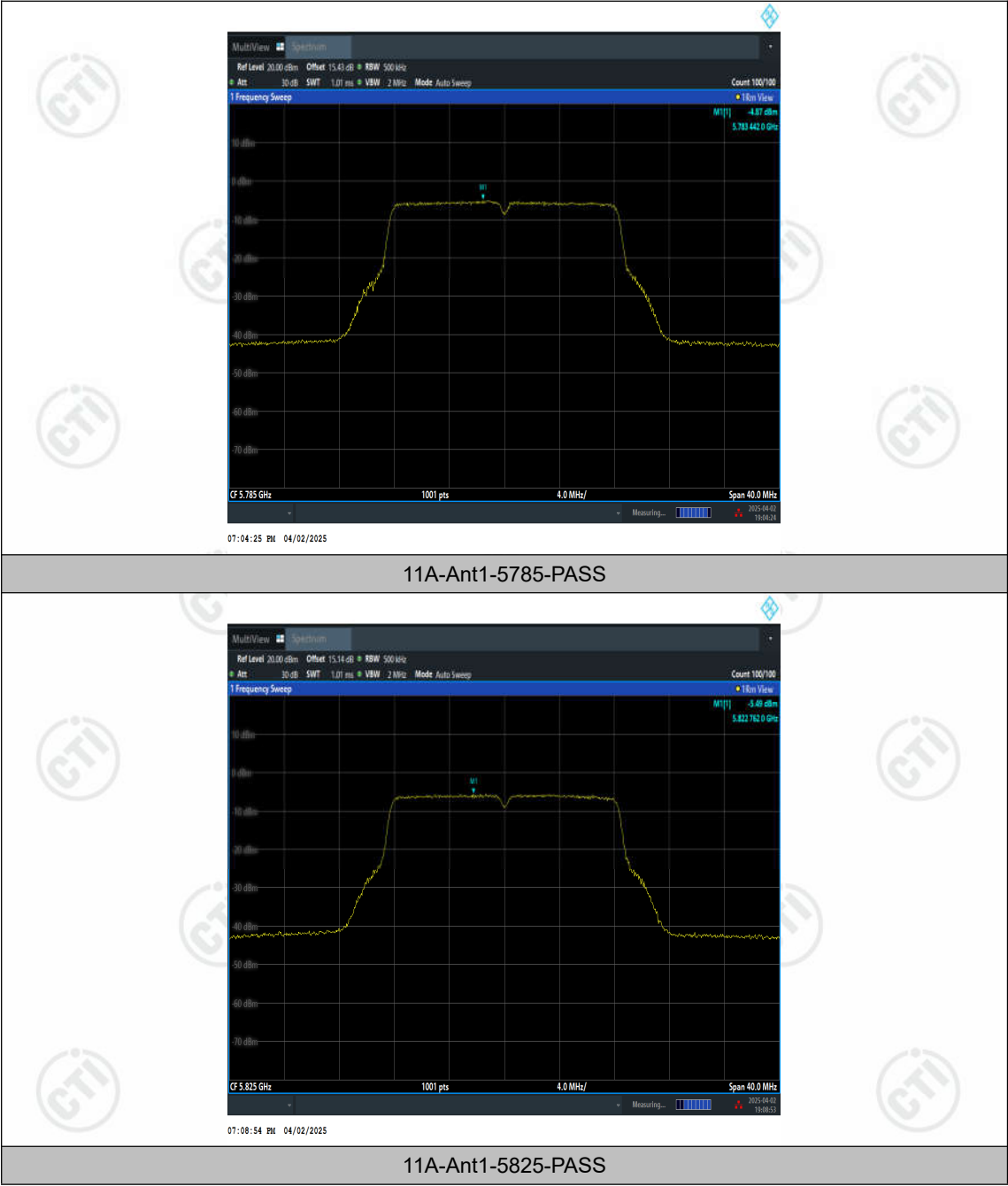
TestMode	Antenna	Freq (MHz)	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-1.35	≤11.00	PASS
11A	Ant1	5220	-1.38	≤11.00	PASS
11A	Ant1	5240	-1.63	≤11.00	PASS
11A	Ant1	5745	-4.81	≤30.00	PASS
11A	Ant1	5785	-4.87	≤30.00	PASS
11A	Ant1	5825	-5.49	≤30.00	PASS
11N20SISO	Ant1	5180	-1.76	≤11.00	PASS
11N20SISO	Ant1	5220	-1.89	≤11.00	PASS
11N20SISO	Ant1	5240	-1.70	≤11.00	PASS
11N20SISO	Ant1	5745	-5.34	≤30.00	PASS
11N20SISO	Ant1	5785	-5.49	≤30.00	PASS
11N20SISO	Ant1	5825	-5.68	≤30.00	PASS

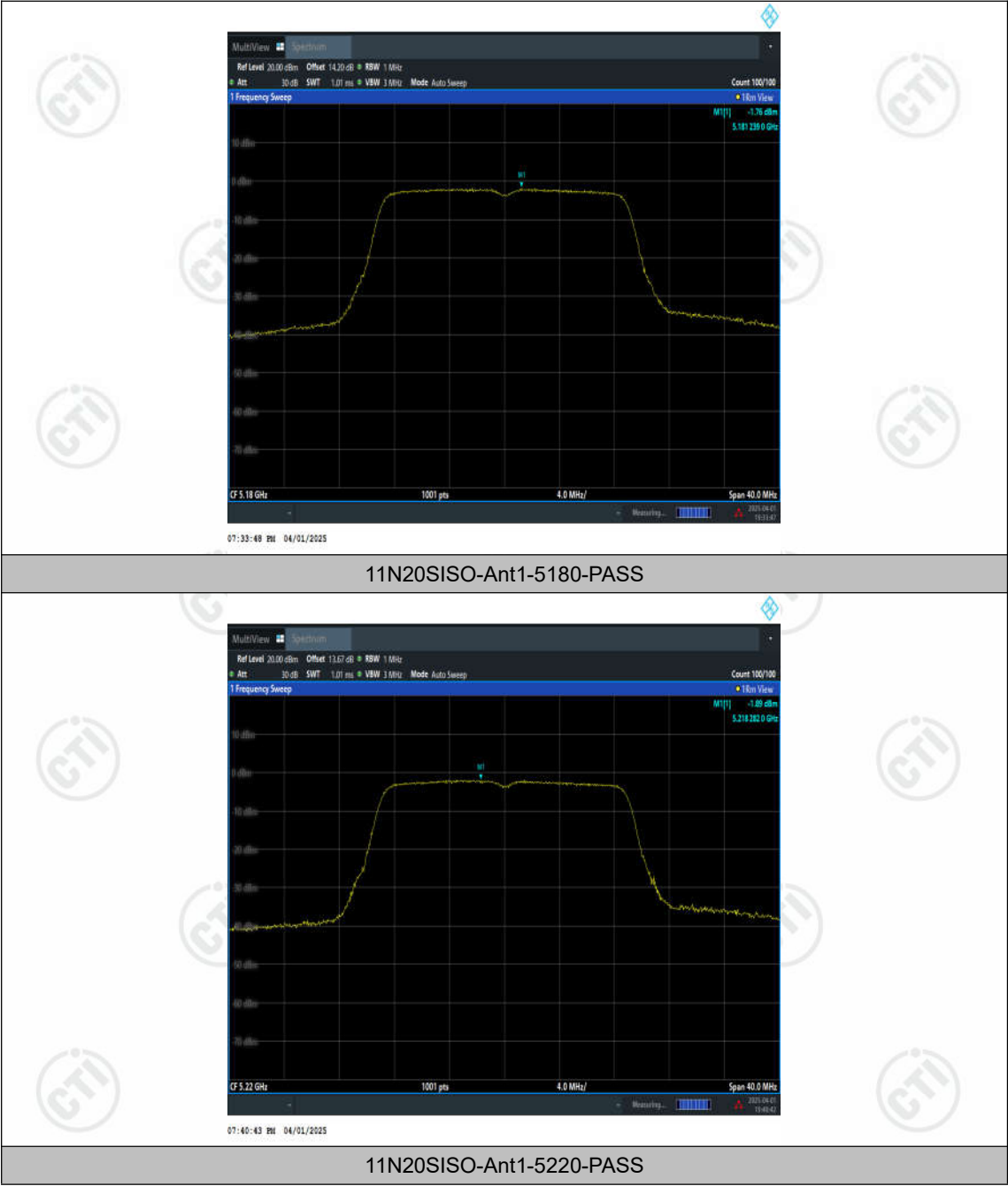
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

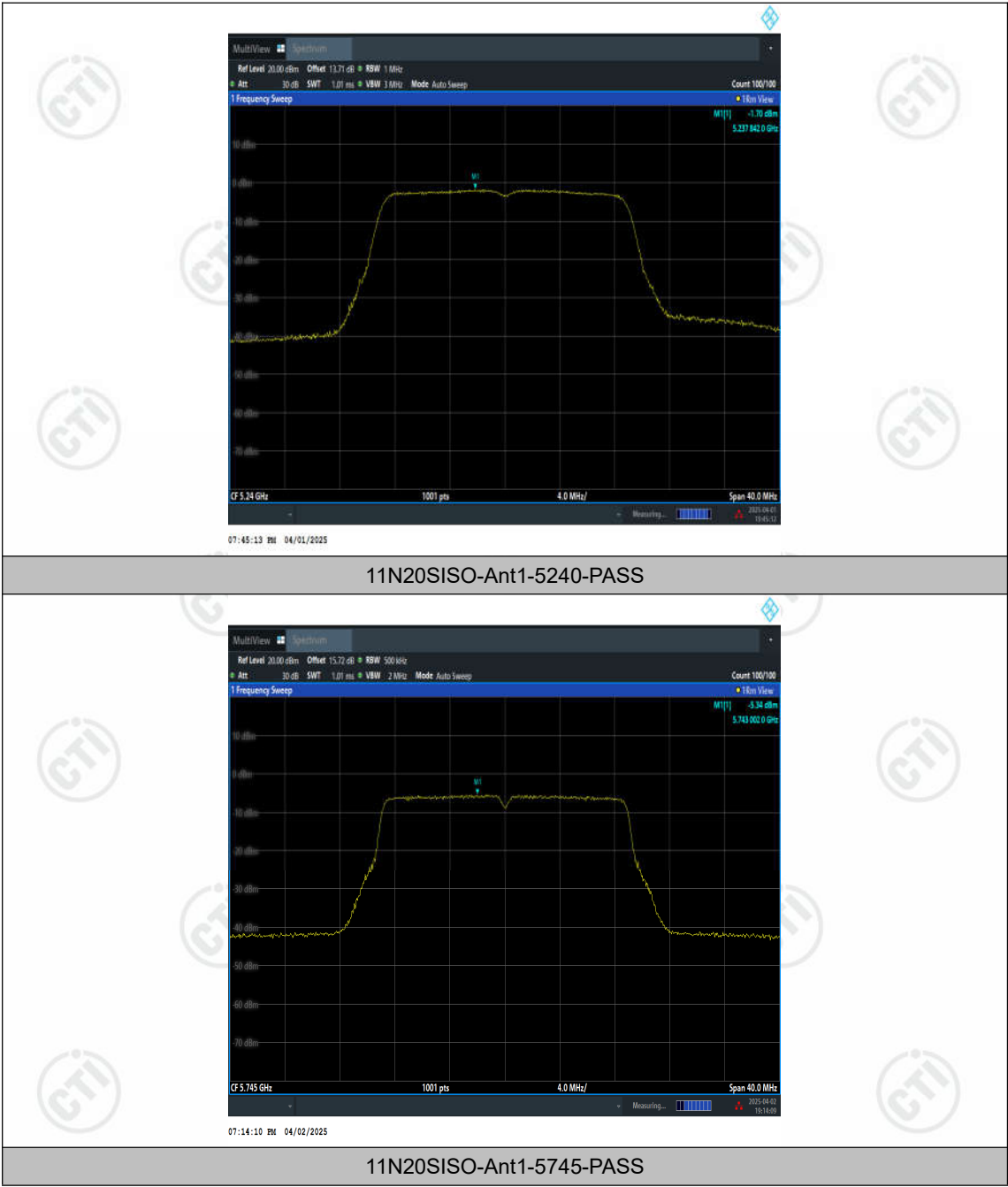
Test Graphs

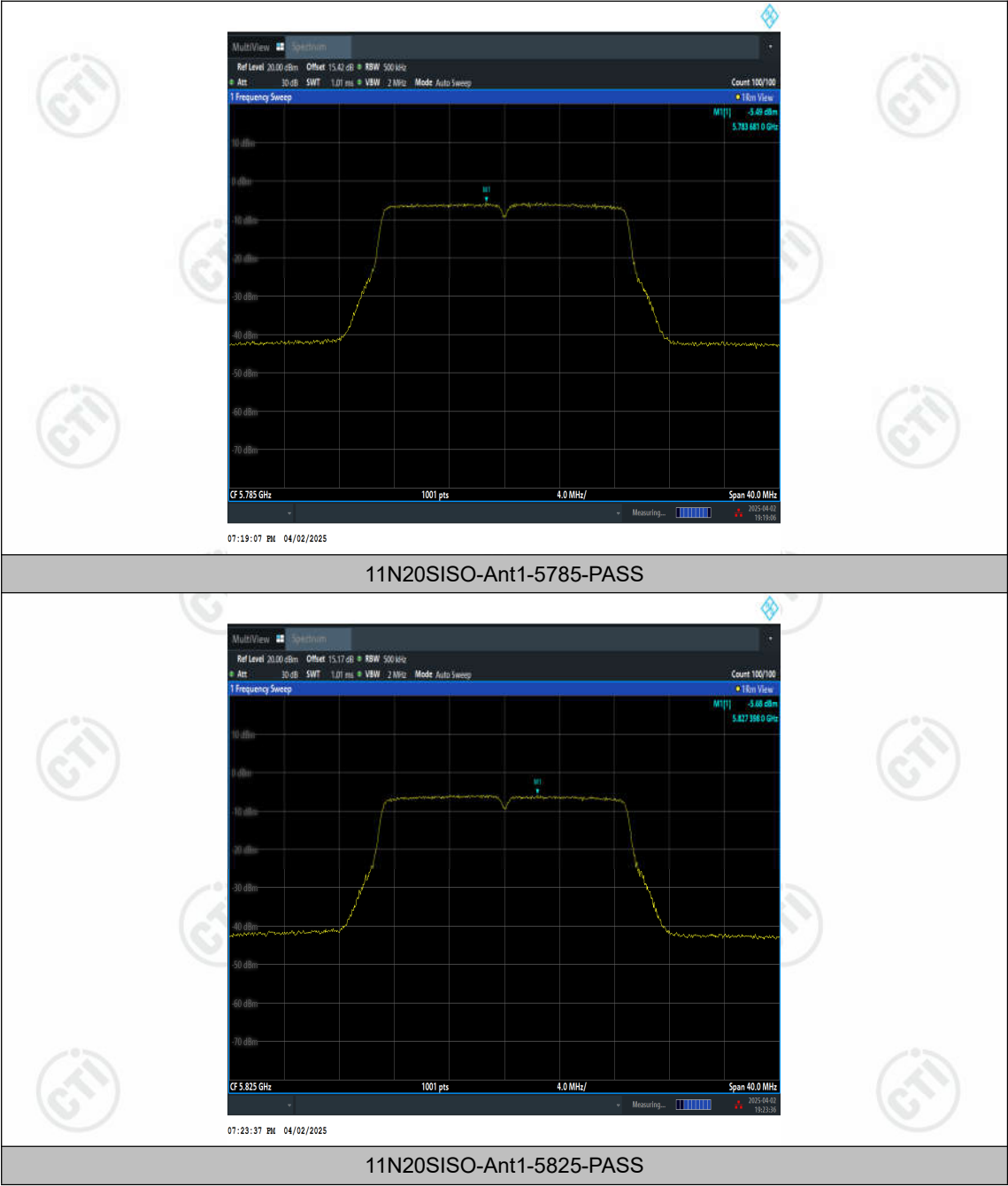












Appendix E: Frequency Stability

Test Result

TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5180	LV	NT	0.00	0.000000	20	PASS
11A	Ant1	5180	HV	NT	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5220	LV	NT	0.00	0.000000	20	PASS
11A	Ant1	5220	HV	NT	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5240	LV	NT	0.00	0.000000	20	PASS
11A	Ant1	5240	HV	NT	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5745	LV	NT	0.00	0.000000	20	PASS
11A	Ant1	5745	HV	NT	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5785	LV	NT	0.00	0.000000	20	PASS
11A	Ant1	5785	HV	NT	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5825	LV	NT	0.00	0.000000	20	PASS
11A	Ant1	5825	HV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	NV	NT	20000.00	3.861004	20	PASS
11N20SISO	Ant1	5180	LV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	HV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5220	NV	NT	20000.00	3.831418	20	PASS
11N20SISO	Ant1	5220	LV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5220	HV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5240	NV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5240	LV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5240	HV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	LV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	HV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	NV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	LV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	HV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	NV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	LV	NT	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	HV	NT	0.00	0.000000	20	PASS

TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	50	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5220	NV	50	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	50	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	50	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	-20	0.00	0.000000	20	PASS

11A	Ant1	5785	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	50	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	50	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	NV	-20	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	NV	-10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	NV	0	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	NV	10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	NV	20	20000.00	3.861004	20	PASS
11N20SISO	Ant1	5180	NV	30	20000.00	3.861004	20	PASS
11N20SISO	Ant1	5180	NV	40	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	NV	50	0.00	0.000000	20	PASS
11N20SISO	Ant1	5220	NV	-30	0.00	0.000000	20	PASS
11N20SISO	Ant1	5220	NV	-20	20000.00	3.831418	20	PASS
11N20SISO	Ant1	5220	NV	-10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5220	NV	0	0.00	0.000000	20	PASS
11N20SISO	Ant1	5220	NV	10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5220	NV	20	0.00	0.000000	20	PASS
11N20SISO	Ant1	5220	NV	30	0.00	0.000000	20	PASS
11N20SISO	Ant1	5220	NV	40	20000.00	3.831418	20	PASS
11N20SISO	Ant1	5220	NV	50	20000.00	3.831418	20	PASS
11N20SISO	Ant1	5240	NV	-30	20000.00	3.816794	20	PASS
11N20SISO	Ant1	5240	NV	-20	0.00	0.000000	20	PASS
11N20SISO	Ant1	5240	NV	-10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5240	NV	0	20000.00	3.816794	20	PASS
11N20SISO	Ant1	5240	NV	10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5240	NV	20	0.00	0.000000	20	PASS
11N20SISO	Ant1	5240	NV	30	0.00	0.000000	20	PASS

11N20SISO	Ant1	5240	NV	40	0.00	0.000000	20	PASS
11N20SISO	Ant1	5240	NV	50	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	-30	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	-20	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	-10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	0	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	20	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	30	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	40	0.00	0.000000	20	PASS
11N20SISO	Ant1	5745	NV	50	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	NV	-30	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	NV	-20	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	NV	-10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	NV	0	20000.00	3.457217	20	PASS
11N20SISO	Ant1	5785	NV	10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	NV	20	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	NV	30	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	NV	40	0.00	0.000000	20	PASS
11N20SISO	Ant1	5785	NV	50	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	NV	-30	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	NV	-20	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	NV	-10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	NV	0	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	NV	10	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	NV	20	20000.00	3.433476	20	PASS
11N20SISO	Ant1	5825	NV	30	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	NV	40	0.00	0.000000	20	PASS
11N20SISO	Ant1	5825	NV	50	0.00	0.000000	20	PASS

END OF REPORT