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Appendix B.20

NR Band n26(824-849)



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N26-824-849	15	5	DFT-QPSK	L	Inner_1RB_Left	24.21	18.36	38.45	PASS
N26-824-849	15	5	DFT-16QAM	L	Inner_1RB_Left	23.25	17.40	38.45	PASS
N26-824-849	15	5	DFT-QPSK	M	Inner_1RB_Left	24.40	18.55	38.45	PASS
N26-824-849	15	5	DFT-16QAM	M	Inner_1RB_Left	23.14	17.29	38.45	PASS
N26-824-849	15	5	DFT-QPSK	H	Inner_1RB_Left	24.25	18.40	38.45	PASS
N26-824-849	15	5	DFT-16QAM	H	Inner_1RB_Left	23.30	17.45	38.45	PASS
N26-824-849	15	10	DFT-QPSK	L	Inner_1RB_Left	24.01	18.16	38.45	PASS
N26-824-849	15	10	DFT-16QAM	L	Inner_1RB_Left	23.14	17.29	38.45	PASS
N26-824-849	15	10	DFT-QPSK	M	Inner_1RB_Left	24.33	18.48	38.45	PASS
N26-824-849	15	10	DFT-16QAM	M	Inner_1RB_Left	23.24	17.39	38.45	PASS
N26-824-849	15	10	DFT-QPSK	H	Inner_1RB_Left	24.03	18.18	38.45	PASS
N26-824-849	15	10	DFT-16QAM	H	Inner_1RB_Left	23.21	17.36	38.45	PASS
N26-824-849	15	15	DFT-QPSK	L	Inner_1RB_Left	24.10	18.25	38.45	PASS
N26-824-849	15	15	DFT-16QAM	L	Inner_1RB_Left	23.21	17.36	38.45	PASS
N26-824-849	15	15	DFT-QPSK	M	Inner_1RB_Left	24.10	18.25	38.45	PASS
N26-824-849	15	15	DFT-16QAM	M	Inner_1RB_Left	23.17	17.32	38.45	PASS
N26-824-849	15	15	DFT-QPSK	H	Inner_1RB_Left	24.02	18.17	38.45	PASS
N26-824-849	15	15	DFT-16QAM	H	Inner_1RB_Left	23.24	17.39	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	24.13	18.28	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	24.26	18.41	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	L	Outer_Full	23.81	17.96	38.45	PASS
N26-824-849	15	20	DFT-QPSK	L	Inner_1RB_Left	24.43	18.58	38.45	PASS
N26-824-849	15	20	DFT-QPSK	L	Inner_1RB_Right	24.45	18.60	38.45	PASS
N26-824-849	15	20	DFT-QPSK	L	Outer_Full	23.26	17.41	38.45	PASS
N26-824-849	15	20	DFT-16QAM	L	Inner_1RB_Left	23.21	17.36	38.45	PASS
N26-824-849	15	20	DFT-16QAM	L	Inner_1RB_Right	23.24	17.39	38.45	PASS
N26-824-849	15	20	DFT-16QAM	L	Outer_Full	22.61	16.76	38.45	PASS
N26-824-849	15	20	DFT-64QAM	L	Inner_1RB_Left	21.53	15.68	38.45	PASS
N26-824-849	15	20	DFT-64QAM	L	Inner_1RB_Right	21.89	16.04	38.45	PASS
N26-824-849	15	20	DFT-64QAM	L	Outer_Full	21.98	16.13	38.45	PASS



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N26-824-849	15	20	DFT-256QAM	L	Inner_1RB_Left	20.09	14.24	38.45	PASS
N26-824-849	15	20	DFT-256QAM	L	Inner_1RB_Right	20.08	14.23	38.45	PASS
N26-824-849	15	20	DFT-256QAM	L	Outer_Full	20.04	14.19	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	24.14	18.29	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	24.26	18.41	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	23.66	17.81	38.45	PASS
N26-824-849	15	20	DFT-QPSK	M	Inner_1RB_Left	24.26	18.41	38.45	PASS
N26-824-849	15	20	DFT-QPSK	M	Inner_1RB_Right	24.39	18.54	38.45	PASS
N26-824-849	15	20	DFT-QPSK	M	Outer_Full	23.35	17.50	38.45	PASS
N26-824-849	15	20	DFT-16QAM	M	Inner_1RB_Left	23.14	17.29	38.45	PASS
N26-824-849	15	20	DFT-16QAM	M	Inner_1RB_Right	23.14	17.29	38.45	PASS
N26-824-849	15	20	DFT-16QAM	M	Outer_Full	22.65	16.80	38.45	PASS
N26-824-849	15	20	DFT-64QAM	M	Inner_1RB_Left	21.75	15.90	38.45	PASS
N26-824-849	15	20	DFT-64QAM	M	Inner_1RB_Right	21.66	15.81	38.45	PASS
N26-824-849	15	20	DFT-64QAM	M	Outer_Full	22.02	16.17	38.45	PASS
N26-824-849	15	20	DFT-256QAM	M	Inner_1RB_Left	20.04	14.19	38.45	PASS
N26-824-849	15	20	DFT-256QAM	M	Inner_1RB_Right	19.96	14.11	38.45	PASS
N26-824-849	15	20	DFT-256QAM	M	Outer_Full	19.94	14.09	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	24.17	18.32	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	24.37	18.52	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	H	Outer_Full	23.75	17.90	38.45	PASS
N26-824-849	15	20	DFT-QPSK	H	Inner_1RB_Left	24.56	18.71	38.45	PASS
N26-824-849	15	20	DFT-QPSK	H	Inner_1RB_Right	24.35	18.50	38.45	PASS
N26-824-849	15	20	DFT-QPSK	H	Outer_Full	23.47	17.62	38.45	PASS
N26-824-849	15	20	DFT-16QAM	H	Inner_1RB_Left	23.15	17.30	38.45	PASS
N26-824-849	15	20	DFT-16QAM	H	Inner_1RB_Right	23.19	17.34	38.45	PASS
N26-824-849	15	20	DFT-16QAM	H	Outer_Full	22.52	16.67	38.45	PASS
N26-824-849	15	20	DFT-64QAM	H	Inner_1RB_Left	21.66	15.81	38.45	PASS
N26-824-849	15	20	DFT-64QAM	H	Inner_1RB_Right	21.83	15.98	38.45	PASS
N26-824-849	15	20	DFT-64QAM	H	Outer_Full	22.20	16.35	38.45	PASS
N26-824-849	15	20	DFT-256QAM	H	Inner_1RB_Left	20.12	14.27	38.45	PASS
N26-824-849	15	20	DFT-256QAM	H	Inner_1RB_Right	20.05	14.20	38.45	PASS
N26-824-849	15	20	DFT-256QAM	H	Outer_Full	20.07	14.22	38.45	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N26-824-849	15	20	DFT-256QAM	L	Outer_Full	8.84	≤13	PASS
N26-824-849	15	20	CP-256QAM	L	Outer_Full	9.35	≤13	PASS
N26-824-849	15	20	DFT-256QAM	M	Outer_Full	8.82	≤13	PASS
N26-824-849	15	20	CP-256QAM	M	Outer_Full	9.34	≤13	PASS
N26-824-849	15	20	DFT-256QAM	H	Outer_Full	8.74	≤13	PASS
N26-824-849	15	20	CP-256QAM	H	Outer_Full	9.36	≤13	PASS



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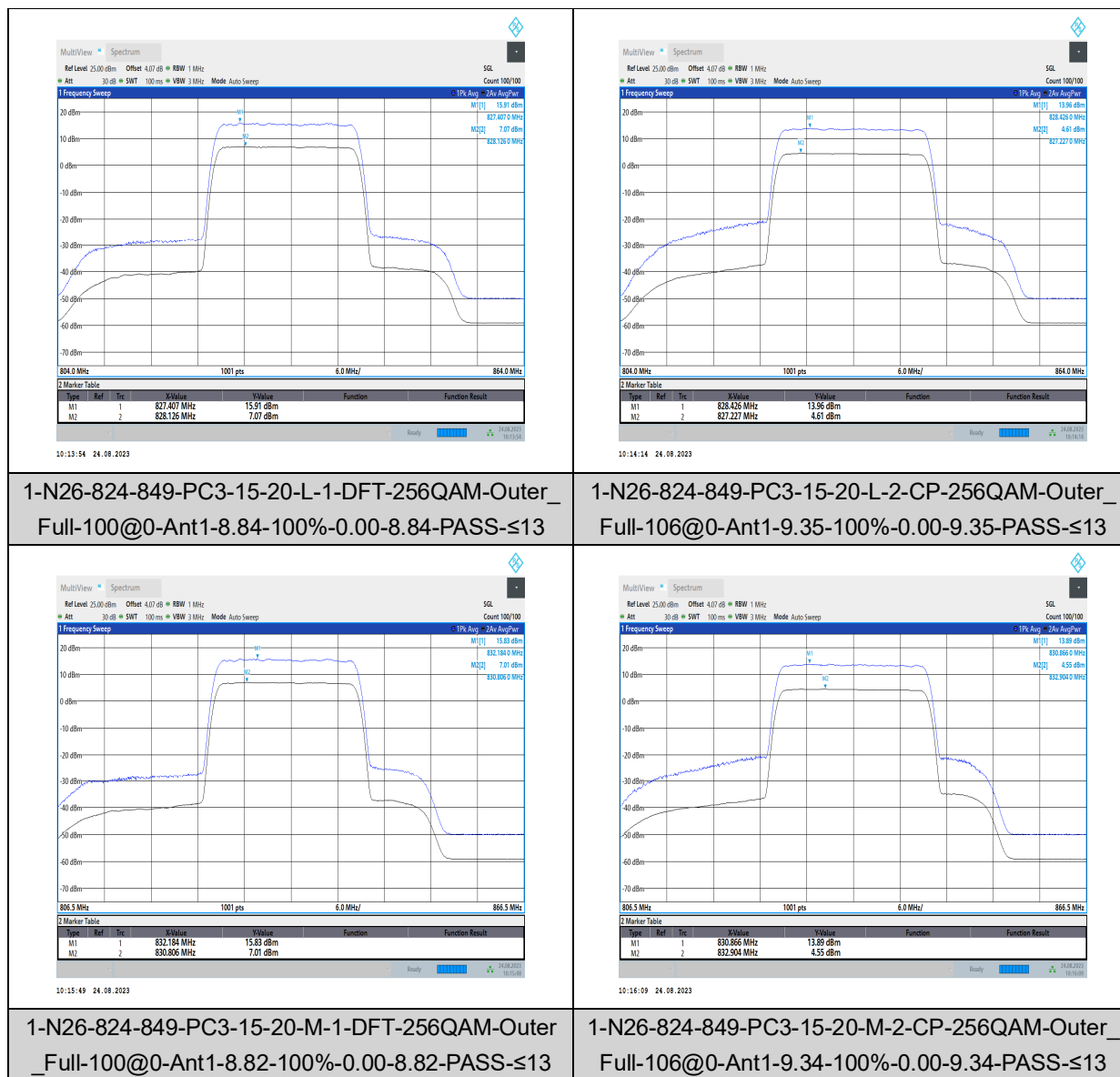
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Test Graphs



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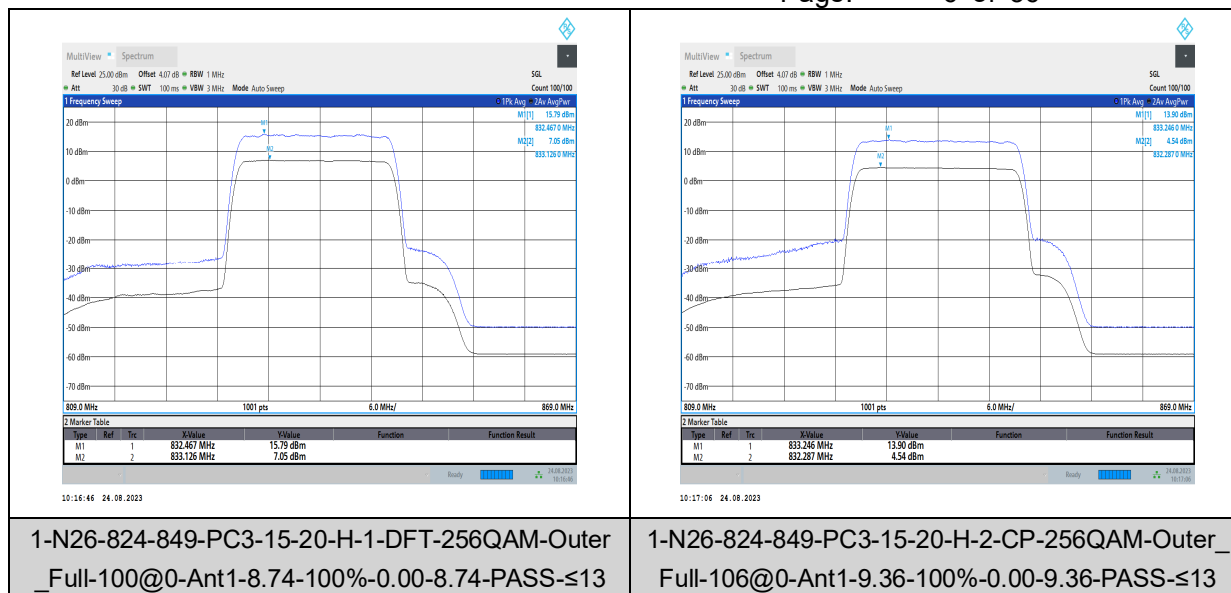
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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N26-824-849	15	5	DFT-QPSK	M	Outer_Full	4.478	4.780	PASS
N26-824-849	15	5	DFT-PI2BPSK	M	Outer_Full	4.461	4.790	PASS
N26-824-849	15	5	DFT-16QAM	M	Outer_Full	4.484	4.830	PASS
N26-824-849	15	5	DFT-64QAM	M	Outer_Full	4.457	4.790	PASS
N26-824-849	15	5	DFT-256QAM	M	Outer_Full	4.461	4.730	PASS
N26-824-849	15	5	CP-QPSK	M	Outer_Full	4.469	4.810	PASS
N26-824-849	15	5	CP-16QAM	M	Outer_Full	4.467	4.810	PASS
N26-824-849	15	5	CP-64QAM	M	Outer_Full	4.47	4.790	PASS
N26-824-849	15	5	CP-256QAM	M	Outer_Full	4.468	4.820	PASS
N26-824-849	15	10	DFT-QPSK	M	Outer_Full	8.904	9.340	PASS
N26-824-849	15	10	DFT-PI2BPSK	M	Outer_Full	8.927	9.340	PASS
N26-824-849	15	10	DFT-16QAM	M	Outer_Full	8.907	9.420	PASS
N26-824-849	15	10	DFT-64QAM	M	Outer_Full	8.903	9.320	PASS
N26-824-849	15	10	DFT-256QAM	M	Outer_Full	8.901	9.380	PASS
N26-824-849	15	10	CP-QPSK	M	Outer_Full	9.285	9.740	PASS
N26-824-849	15	10	CP-16QAM	M	Outer_Full	9.282	9.800	PASS
N26-824-849	15	10	CP-64QAM	M	Outer_Full	9.285	9.800	PASS
N26-824-849	15	10	CP-256QAM	M	Outer_Full	9.253	9.760	PASS
N26-824-849	15	15	DFT-QPSK	M	Outer_Full	13.422	14.070	PASS
N26-824-849	15	15	DFT-PI2BPSK	M	Outer_Full	13.439	14.130	PASS
N26-824-849	15	15	DFT-16QAM	M	Outer_Full	13.434	14.070	PASS
N26-824-849	15	15	DFT-64QAM	M	Outer_Full	13.426	14.100	PASS
N26-824-849	15	15	DFT-256QAM	M	Outer_Full	13.403	14.070	PASS
N26-824-849	15	15	CP-QPSK	M	Outer_Full	14.121	14.850	PASS
N26-824-849	15	15	CP-16QAM	M	Outer_Full	14.151	14.790	PASS
N26-824-849	15	15	CP-64QAM	M	Outer_Full	14.112	14.790	PASS
N26-824-849	15	15	CP-256QAM	M	Outer_Full	14.114	14.730	PASS
N26-824-849	15	20	DFT-QPSK	M	Outer_Full	17.836	18.640	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	17.859	18.560	PASS
N26-824-849	15	20	DFT-16QAM	M	Outer_Full	17.857	18.680	PASS



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N26-824-849	15	20	DFT-64QAM	M	Outer_Full	17.873	18.720	PASS
N26-824-849	15	20	DFT-256QAM	M	Outer_Full	17.868	18.640	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	18.953	19.680	PASS
N26-824-849	15	20	CP-16QAM	M	Outer_Full	18.906	19.720	PASS
N26-824-849	15	20	CP-64QAM	M	Outer_Full	18.952	19.760	PASS
N26-824-849	15	20	CP-256QAM	M	Outer_Full	18.928	19.680	PASS

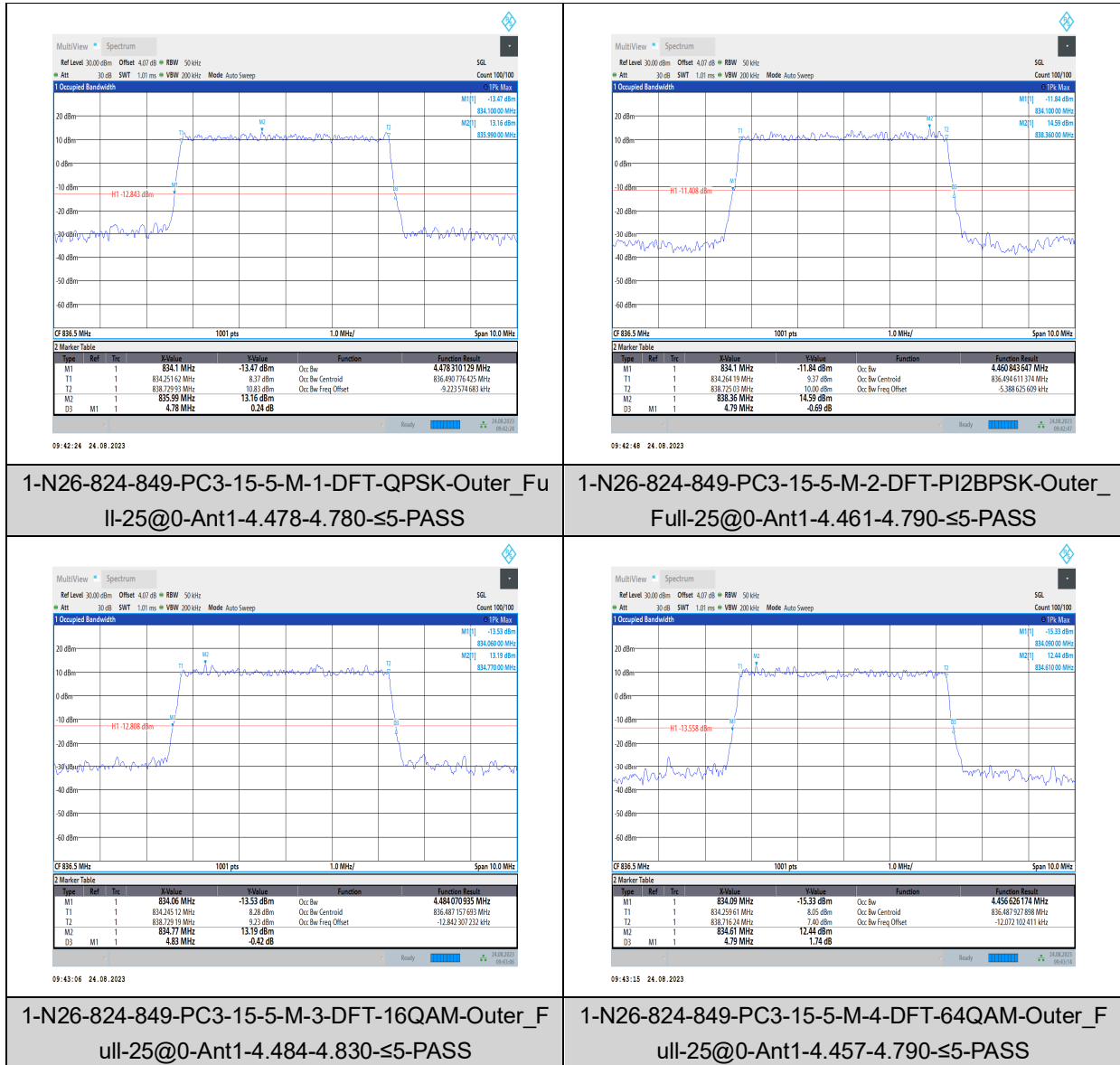


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Test Graphs



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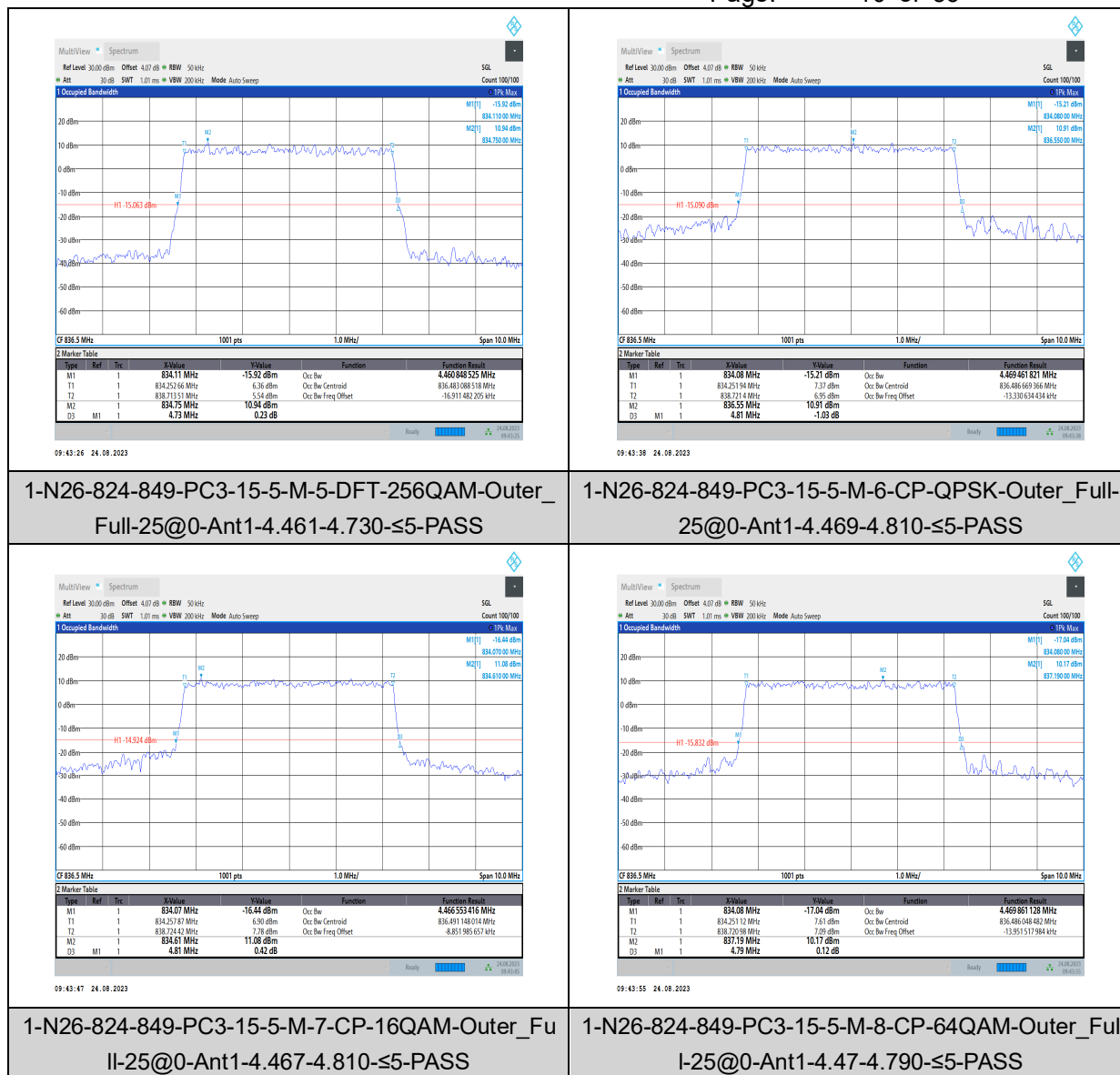
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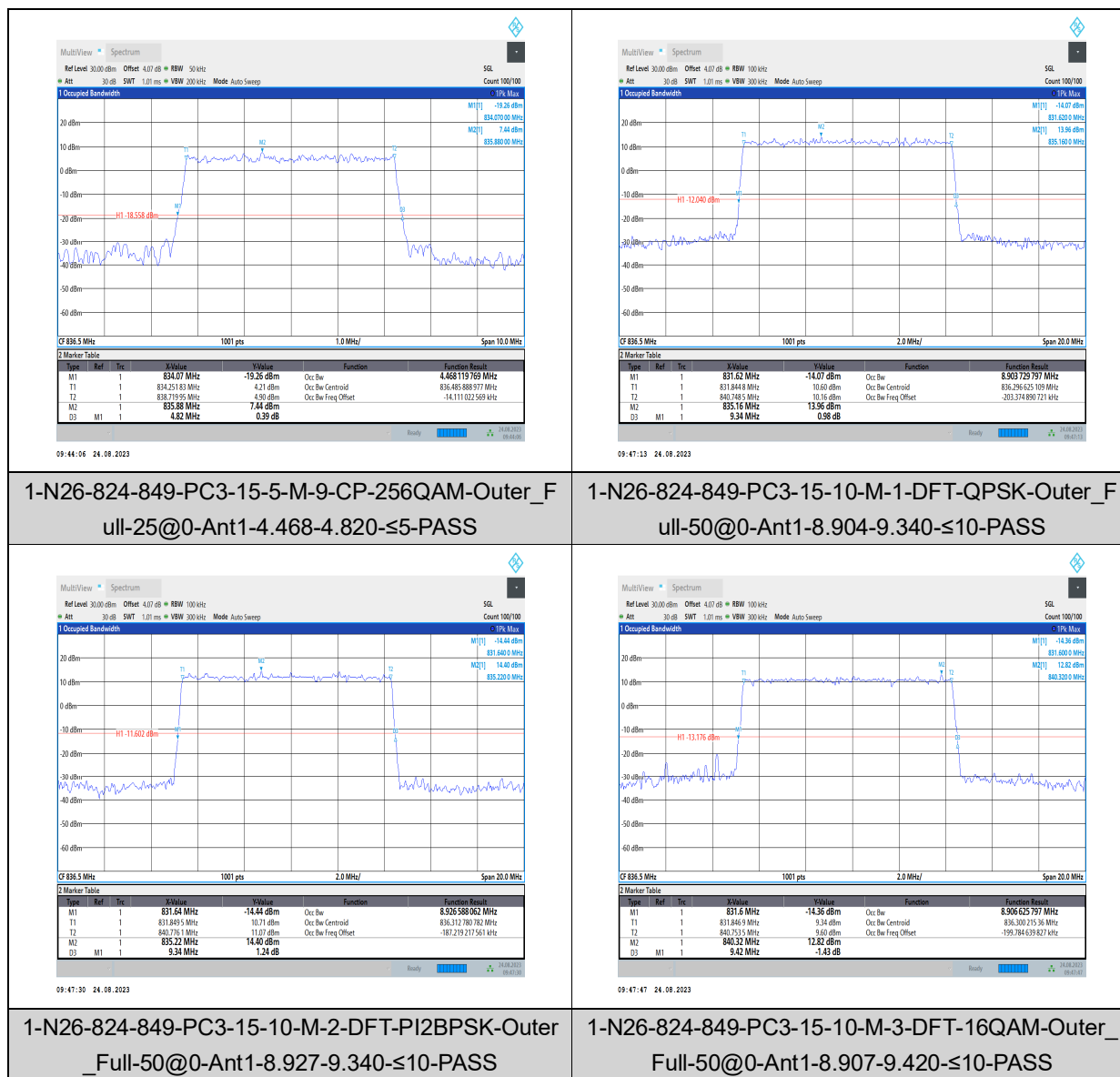
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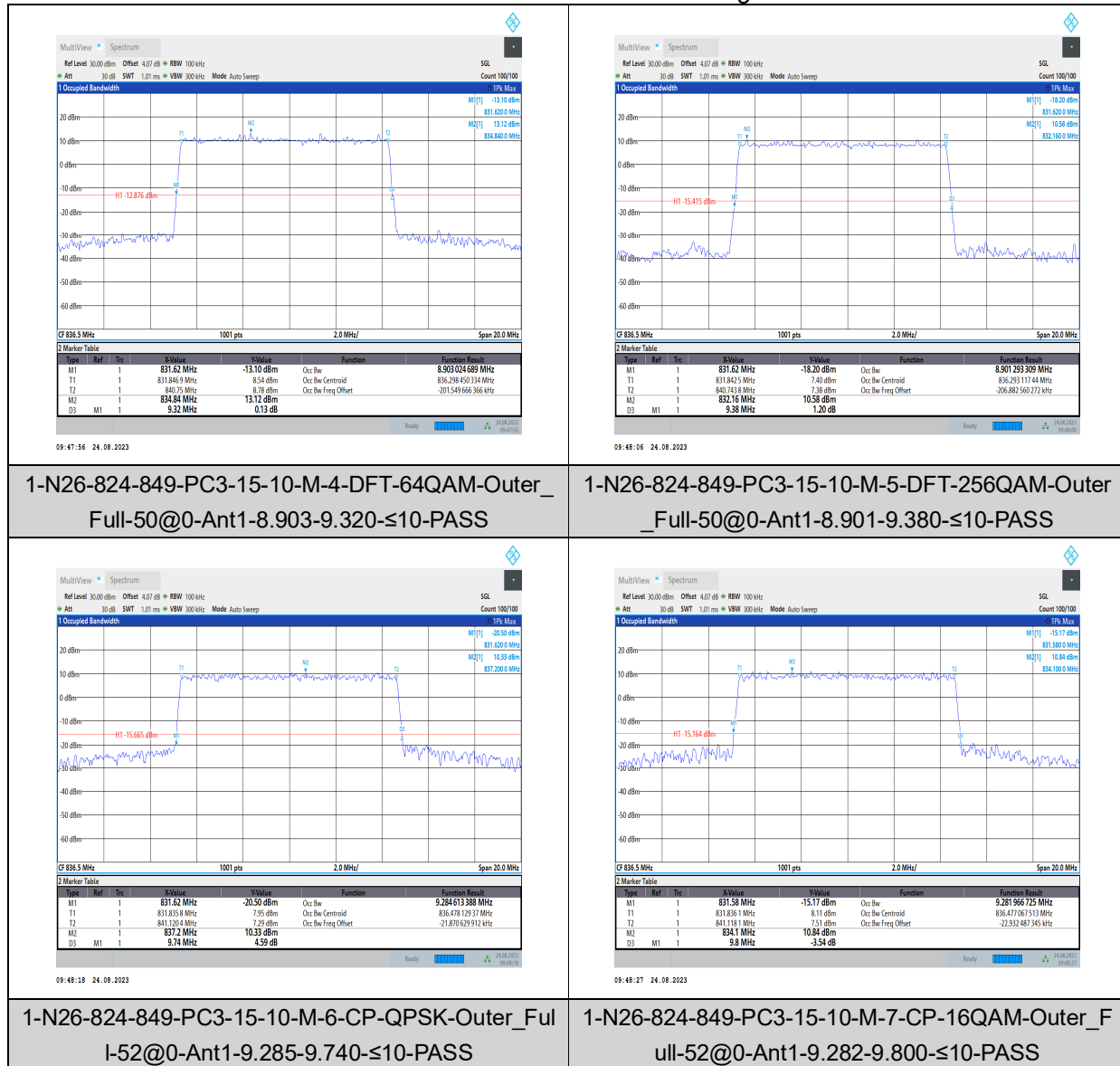
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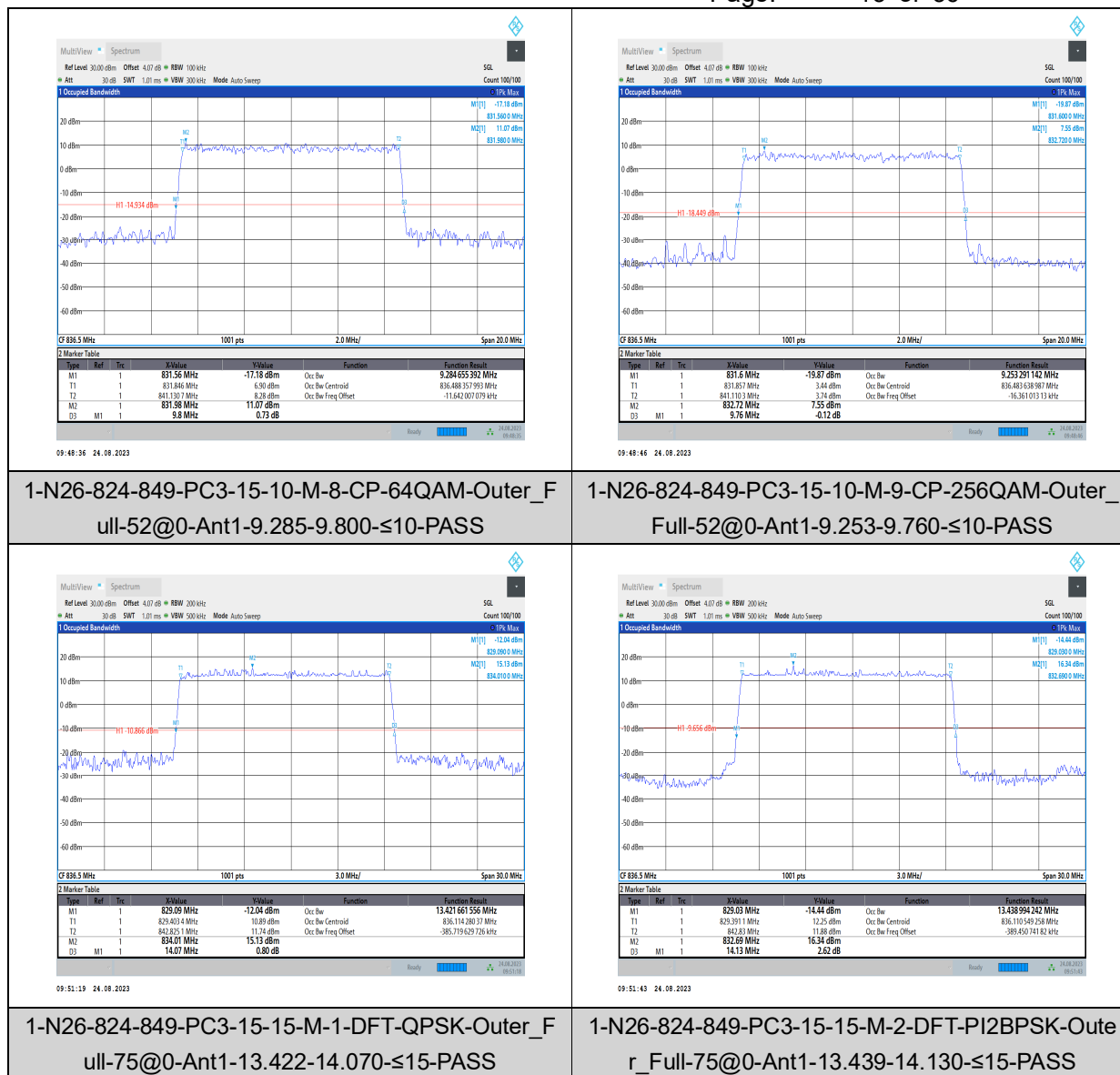
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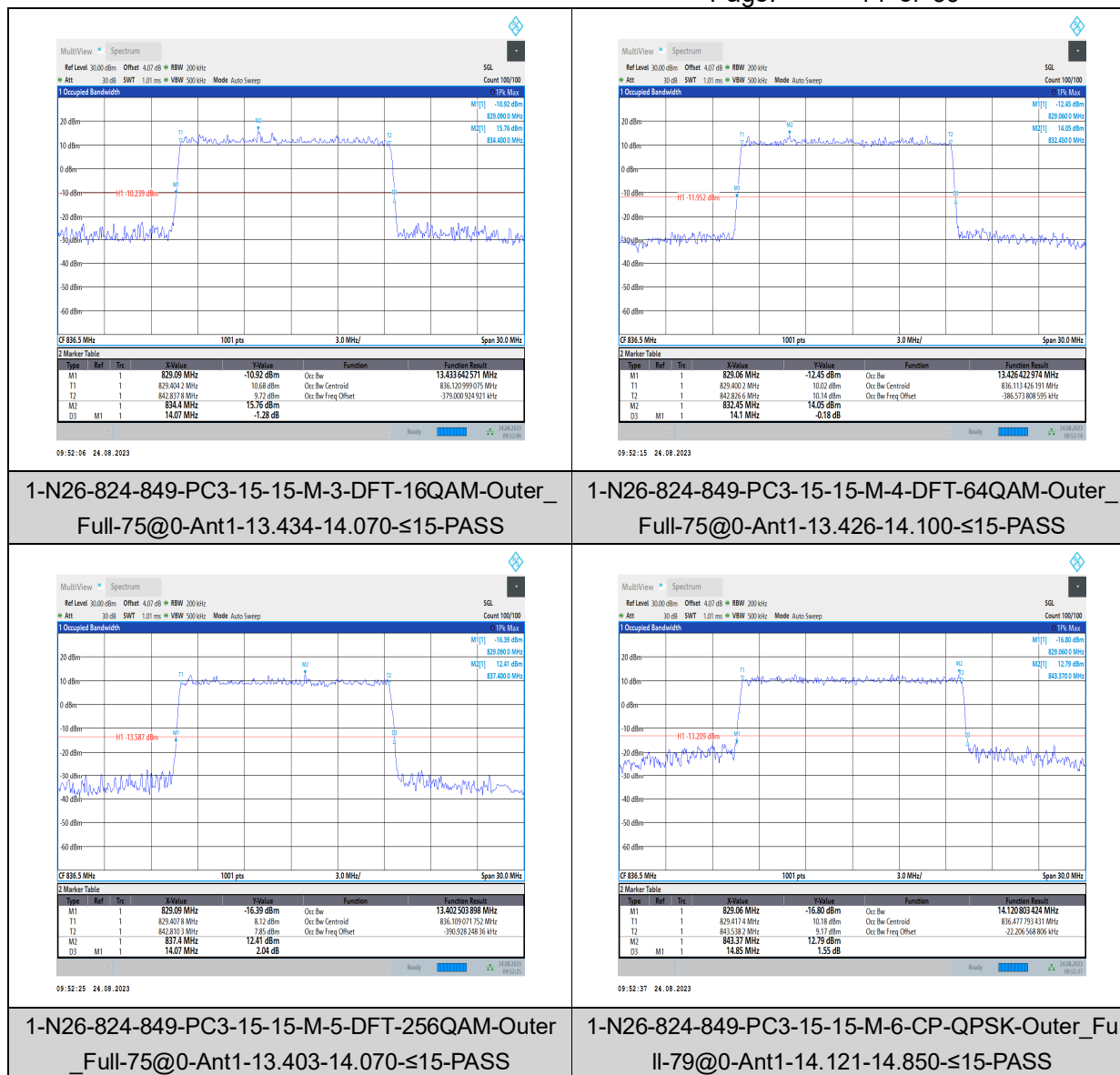
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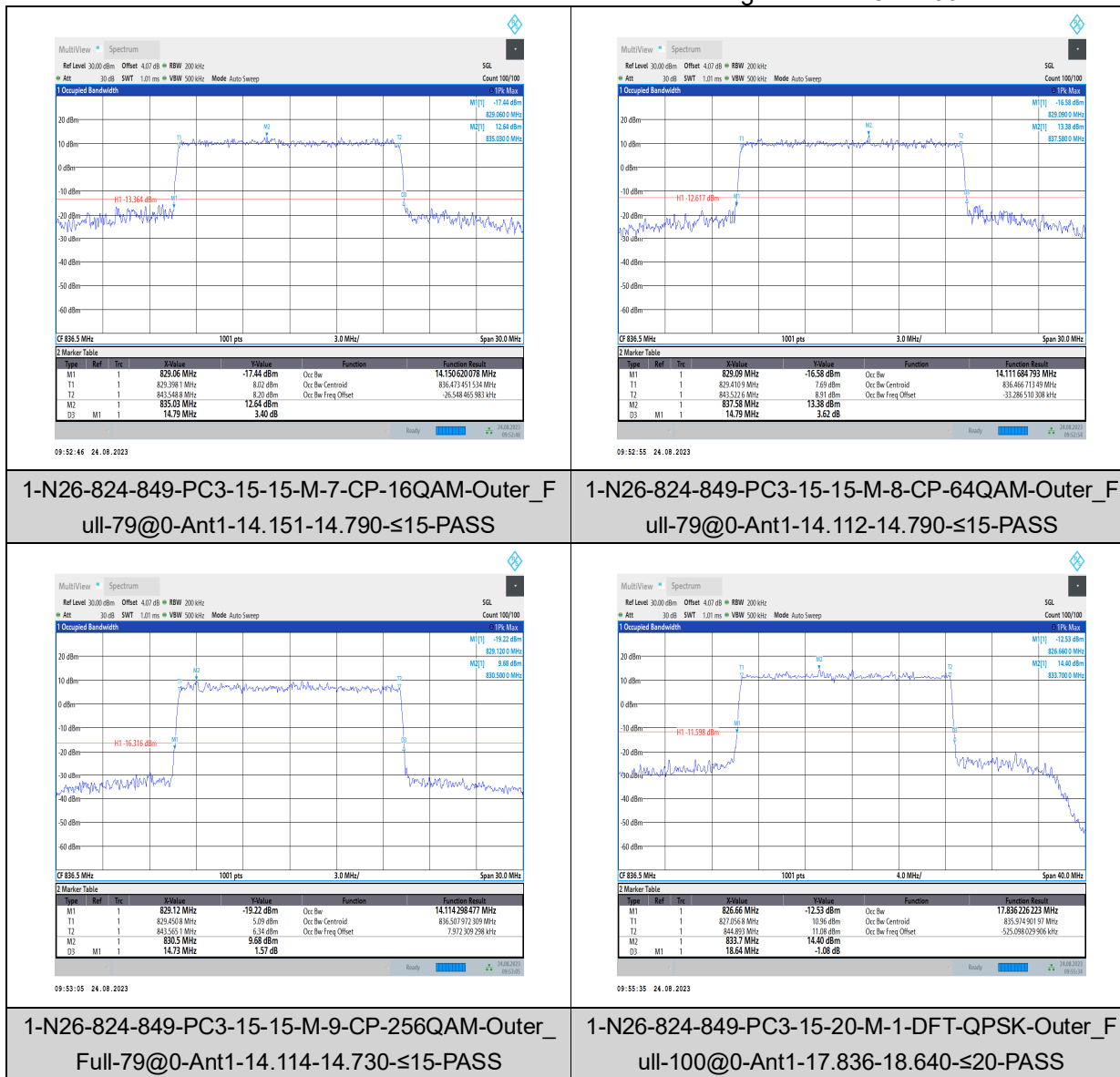
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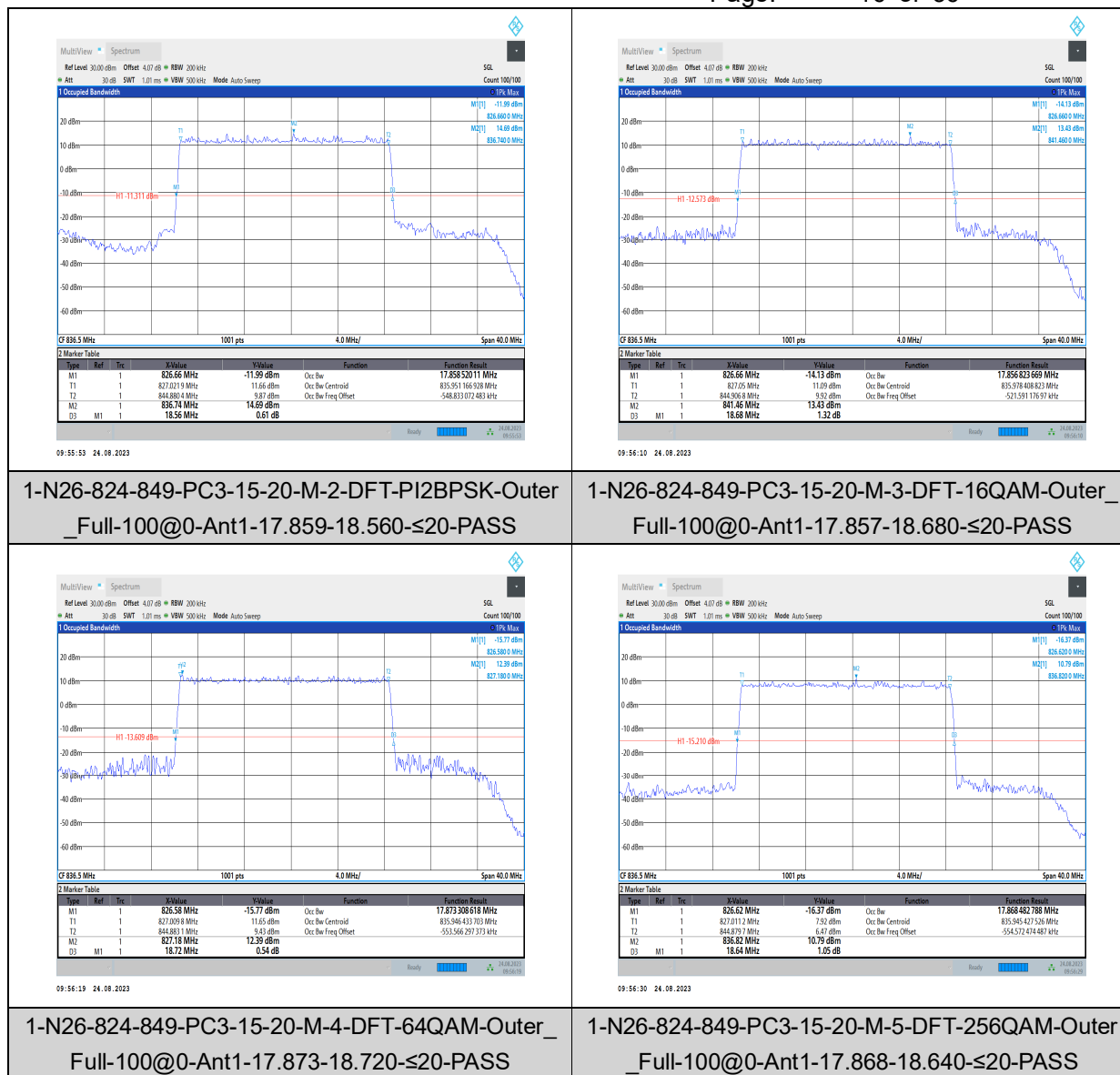
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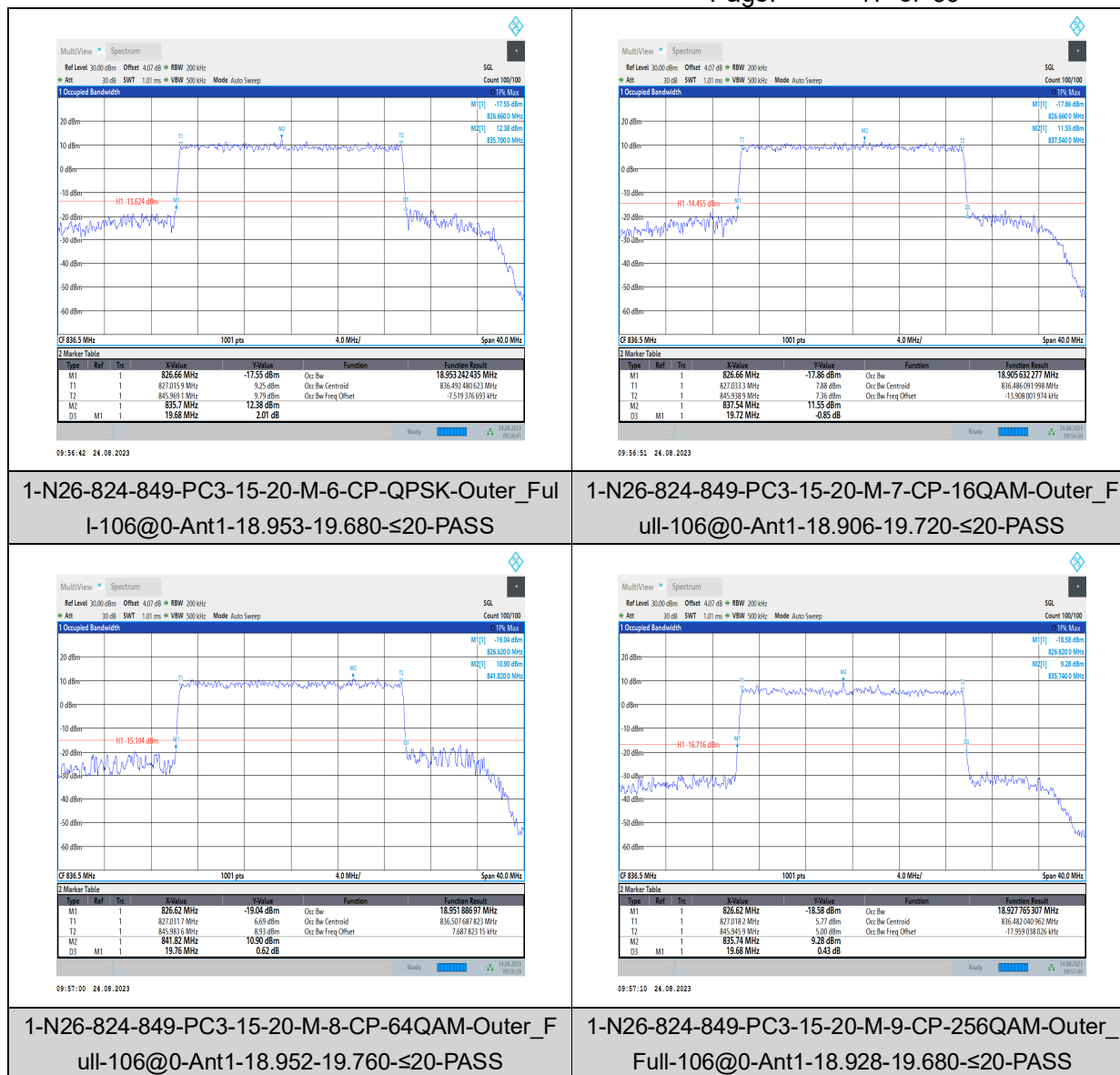
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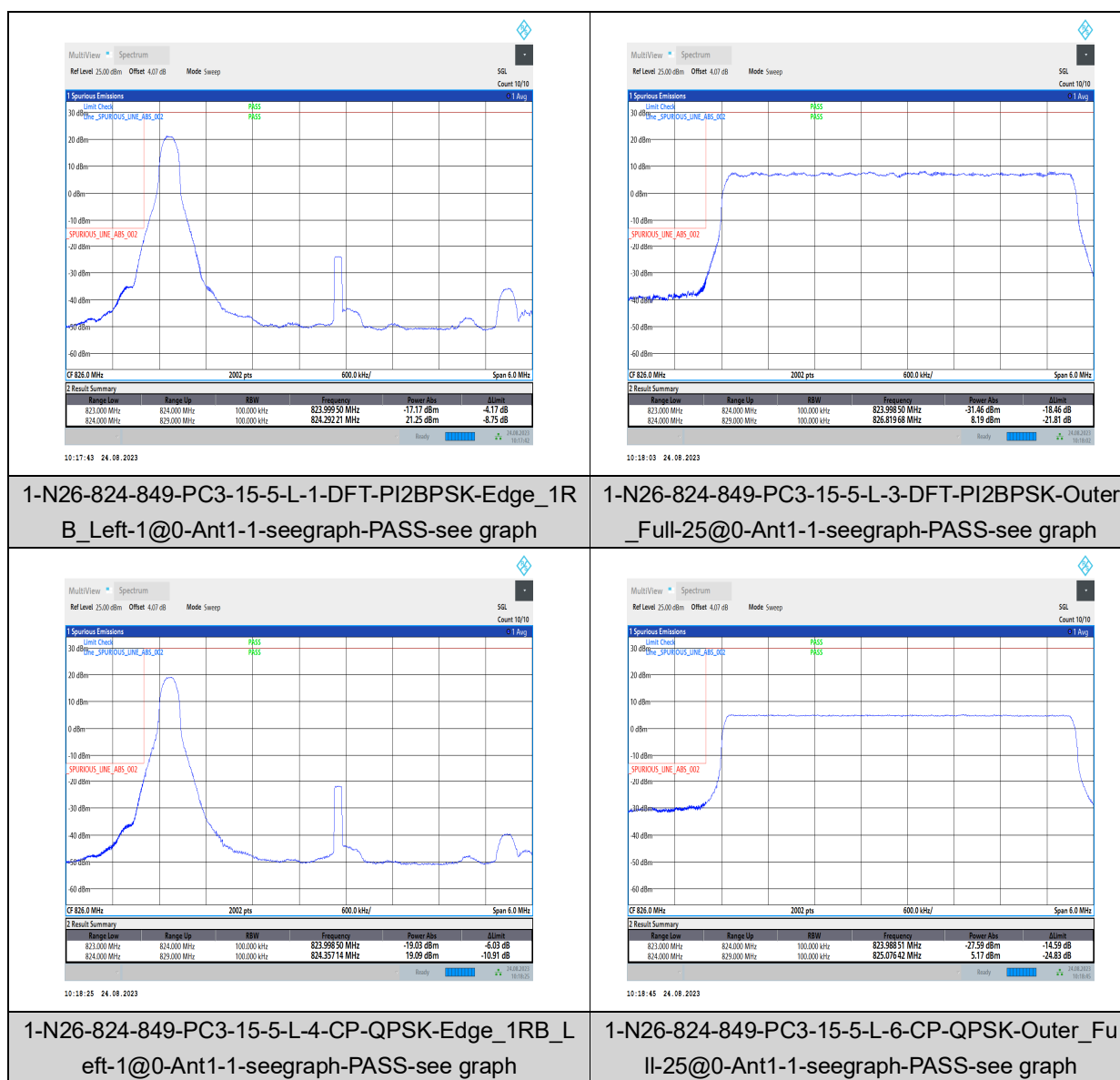
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Band Edge for SA

Test Graphs



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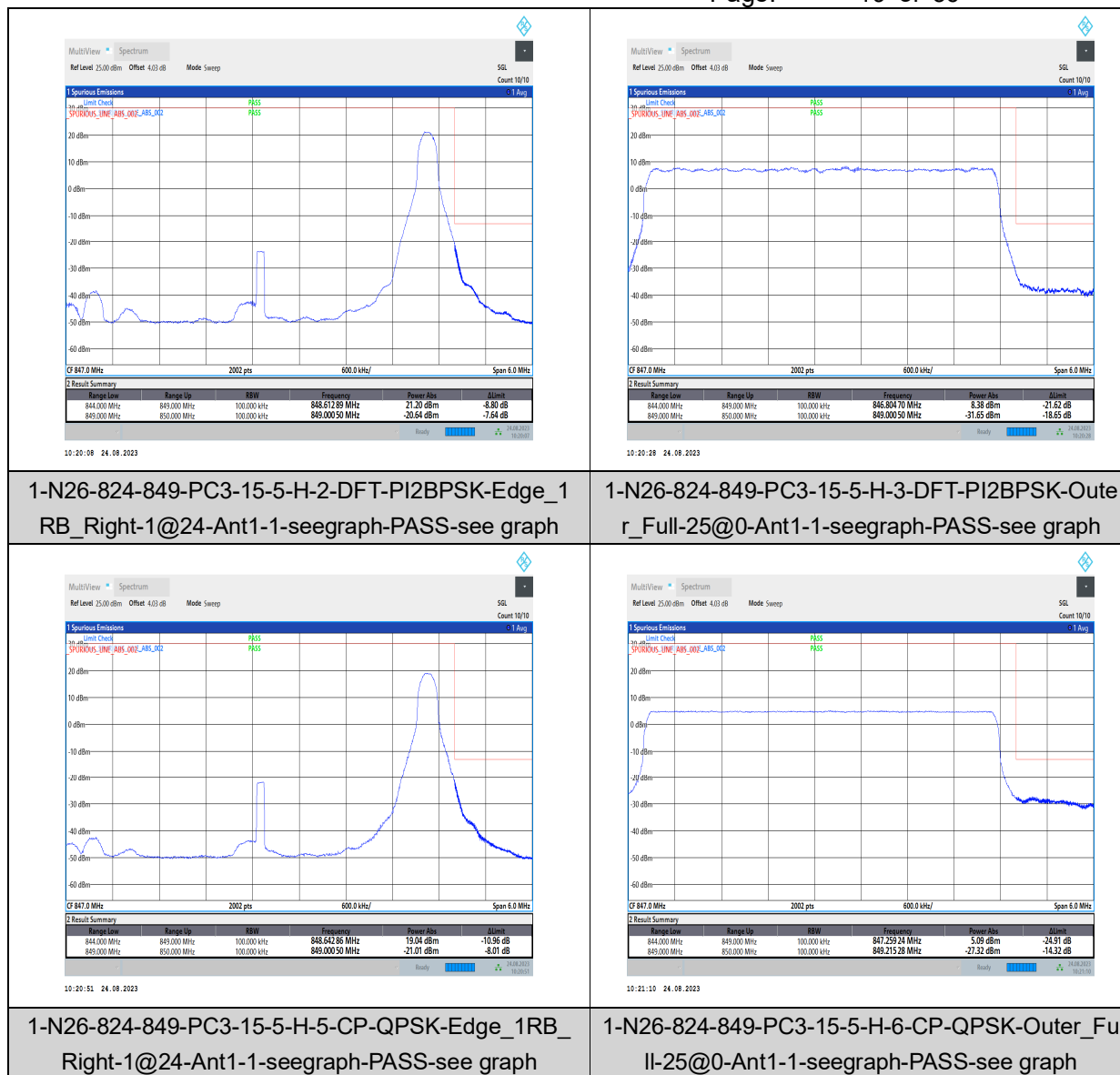
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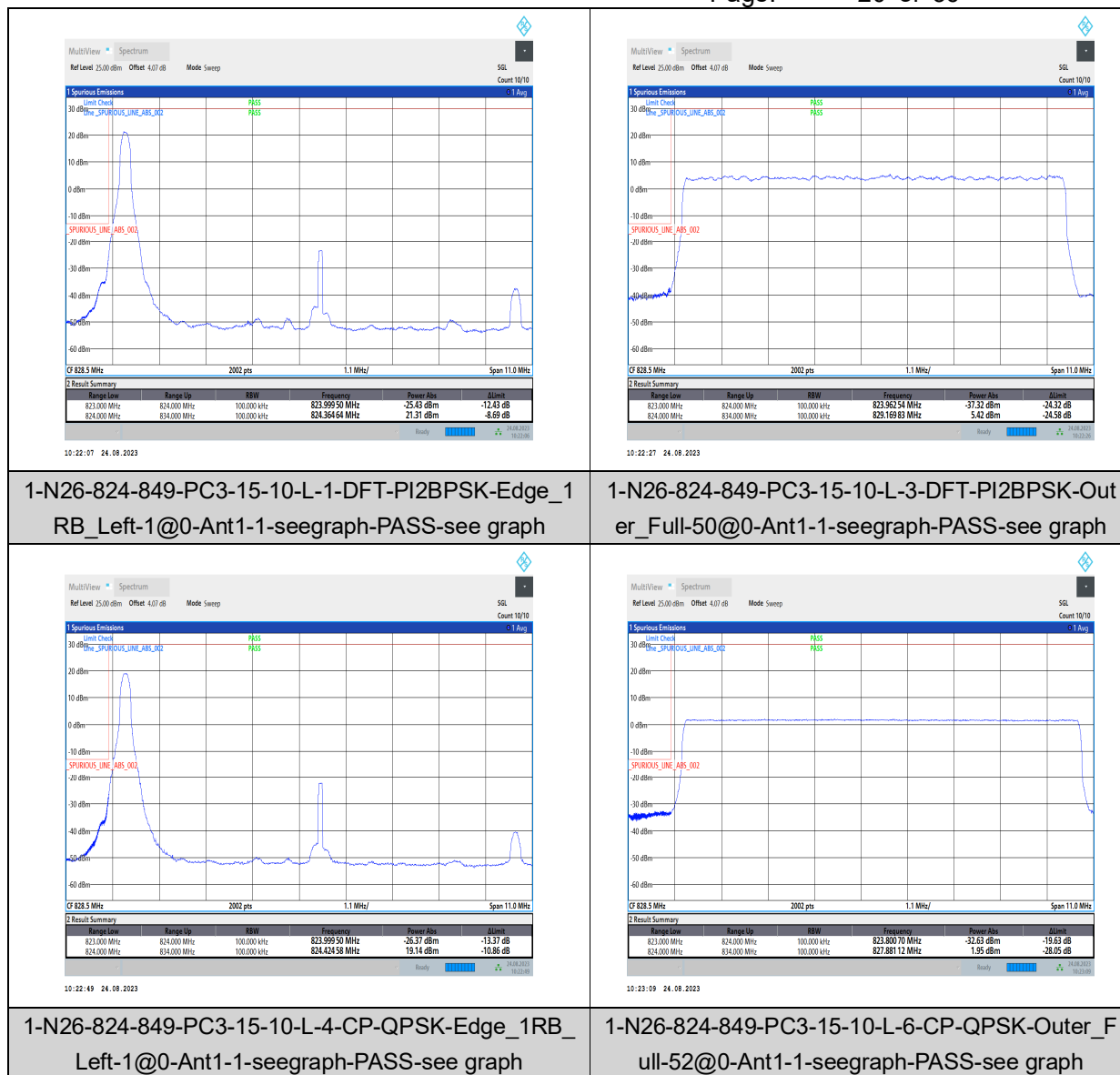
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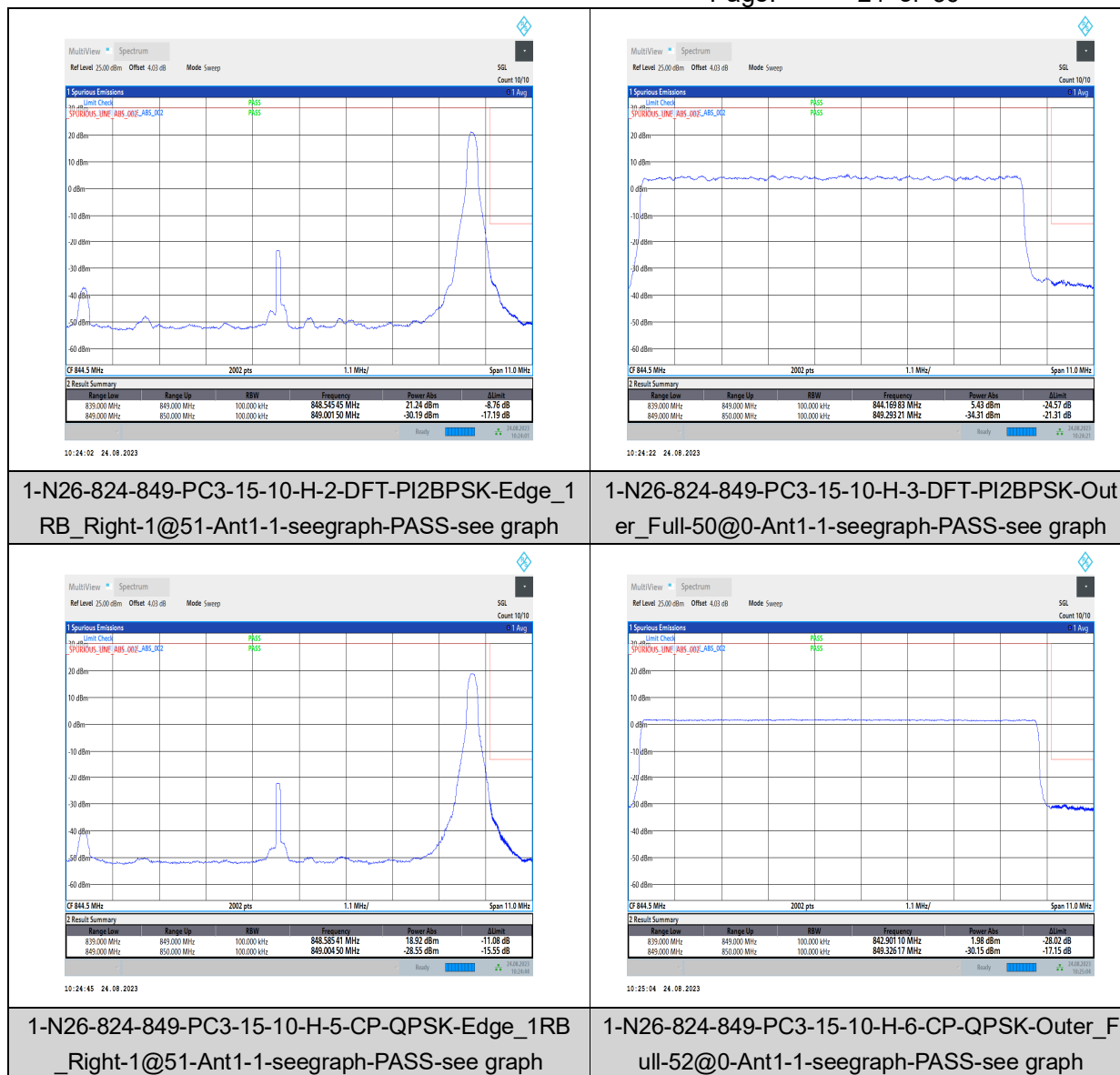
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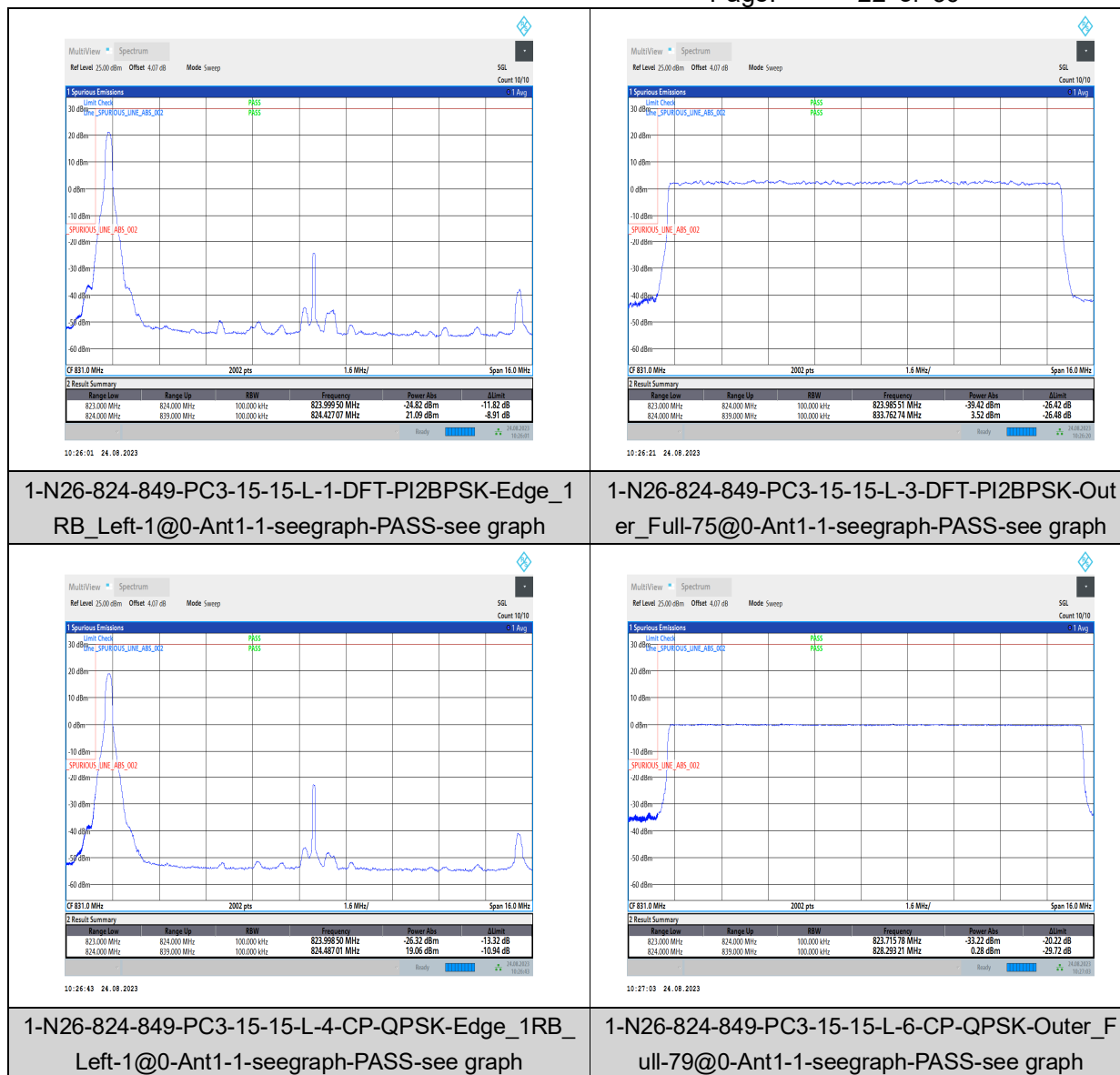
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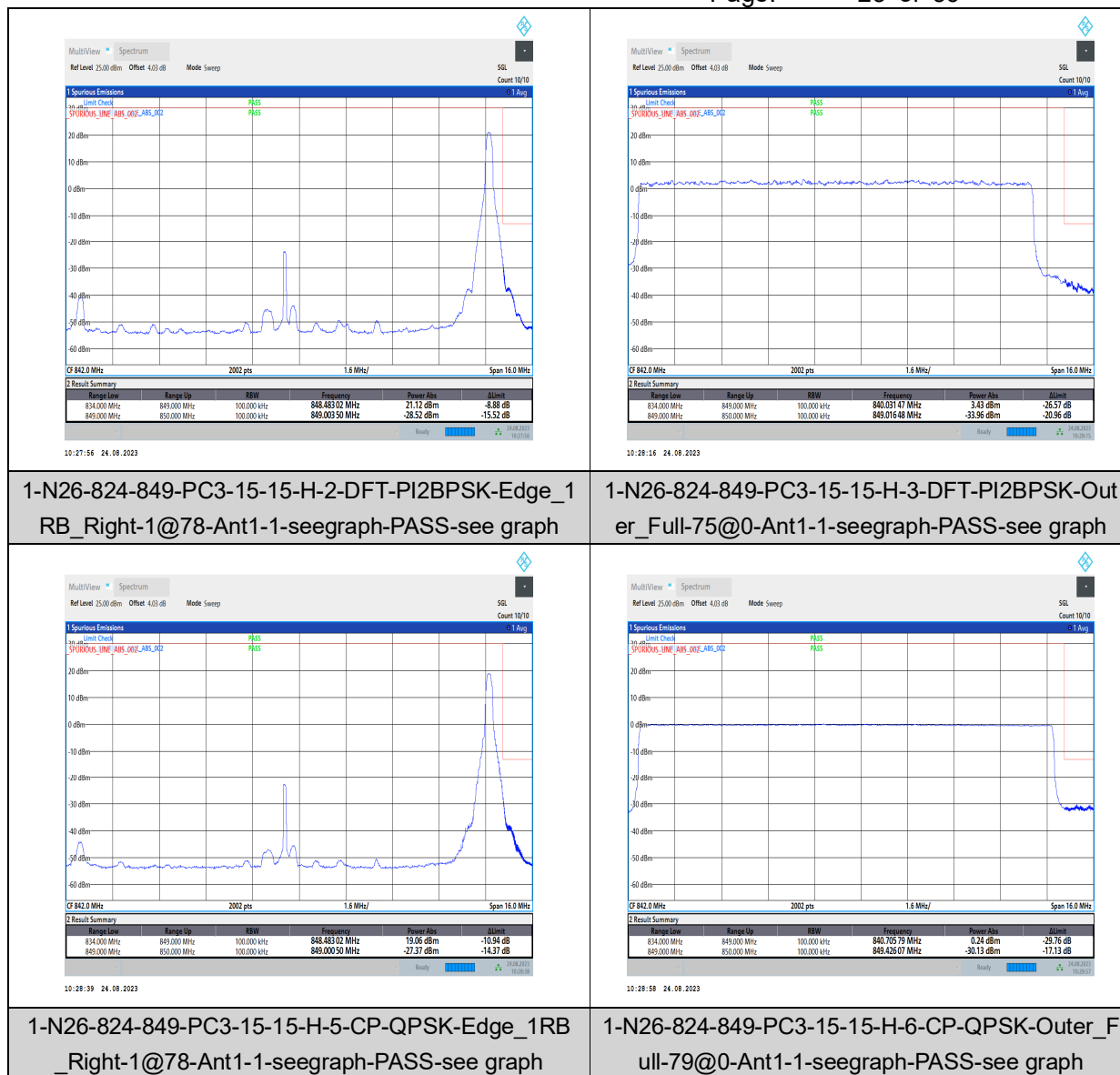
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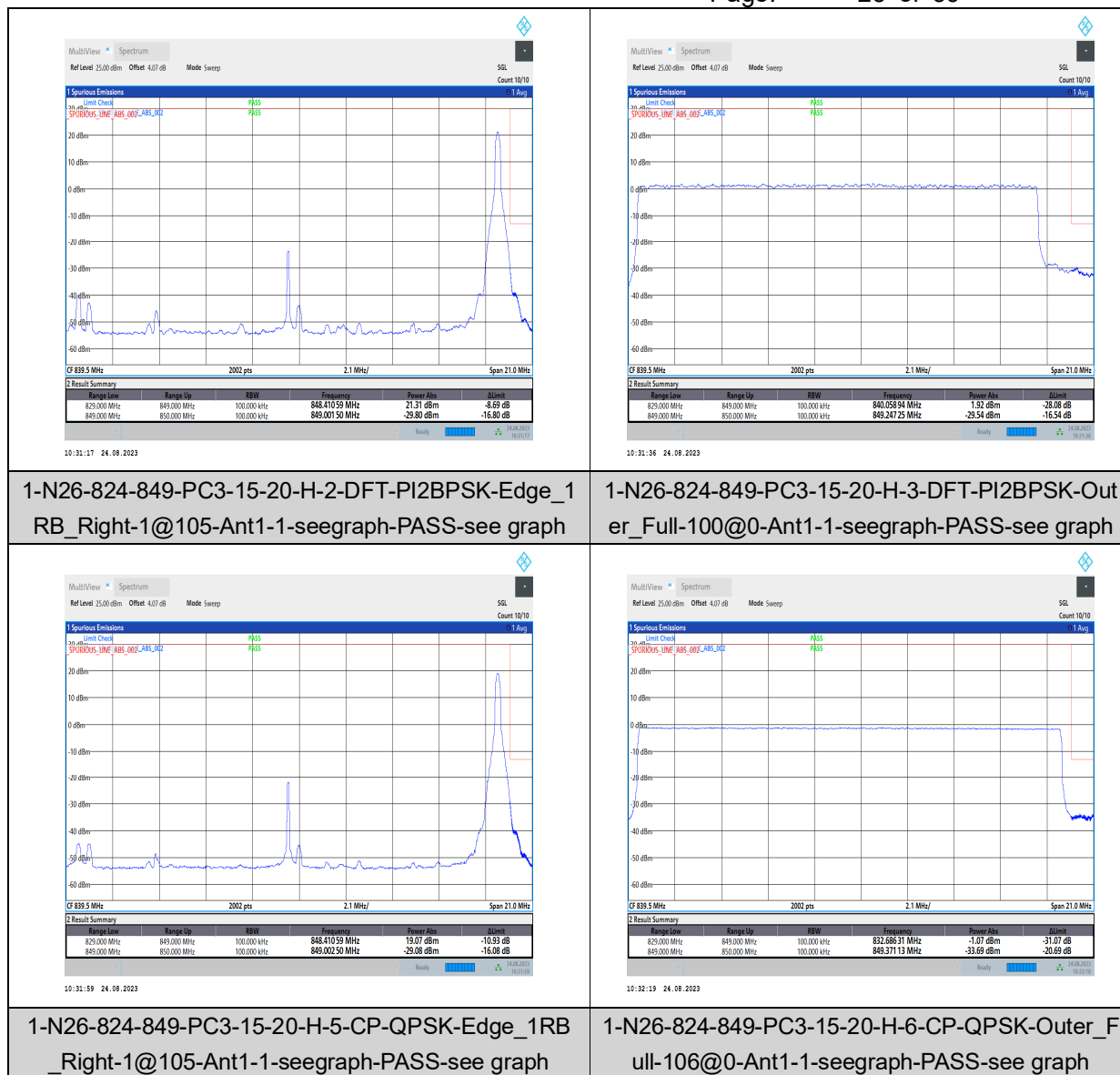
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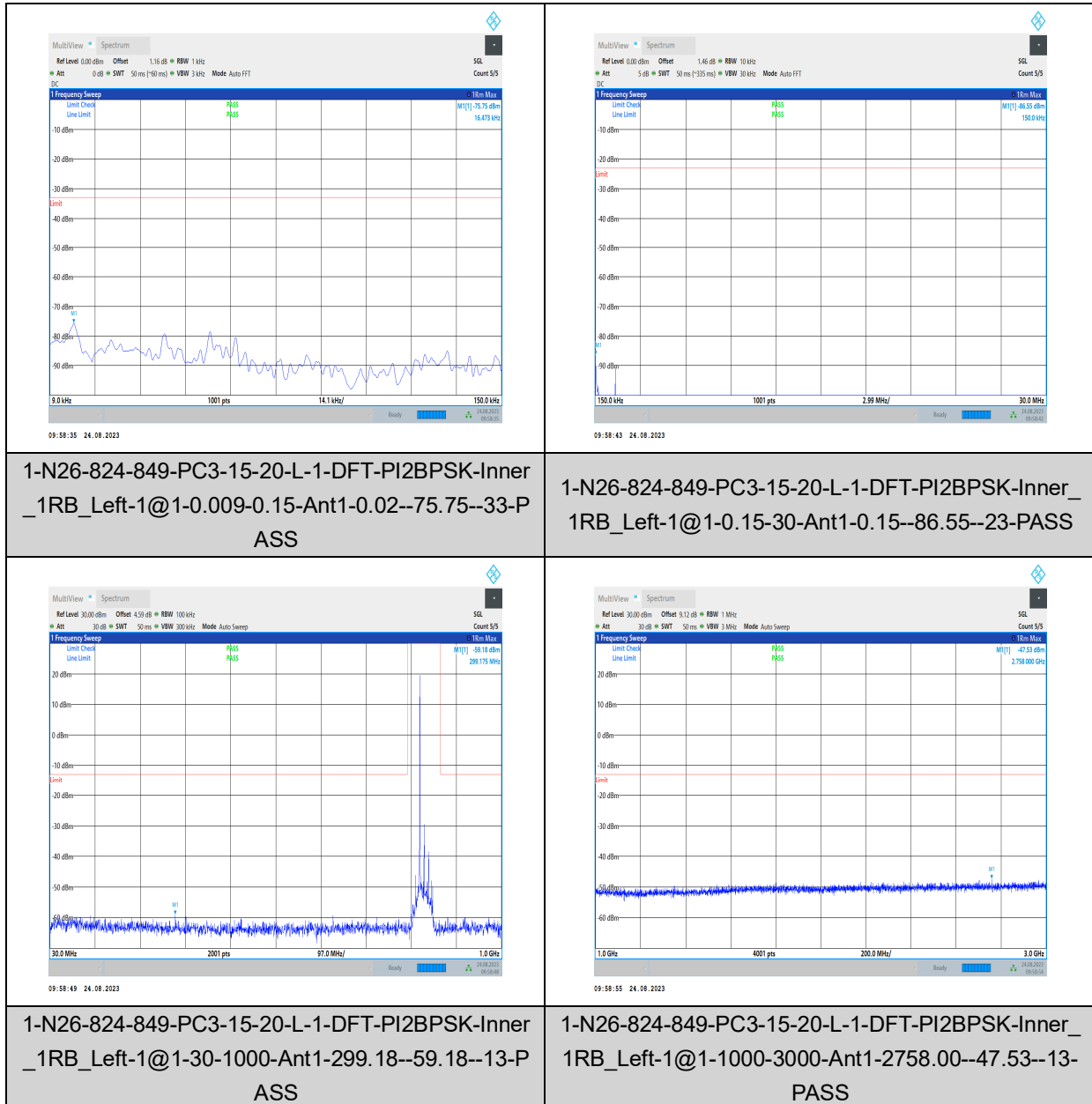
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Conducted Spurious Emission for SA

Test Graphs



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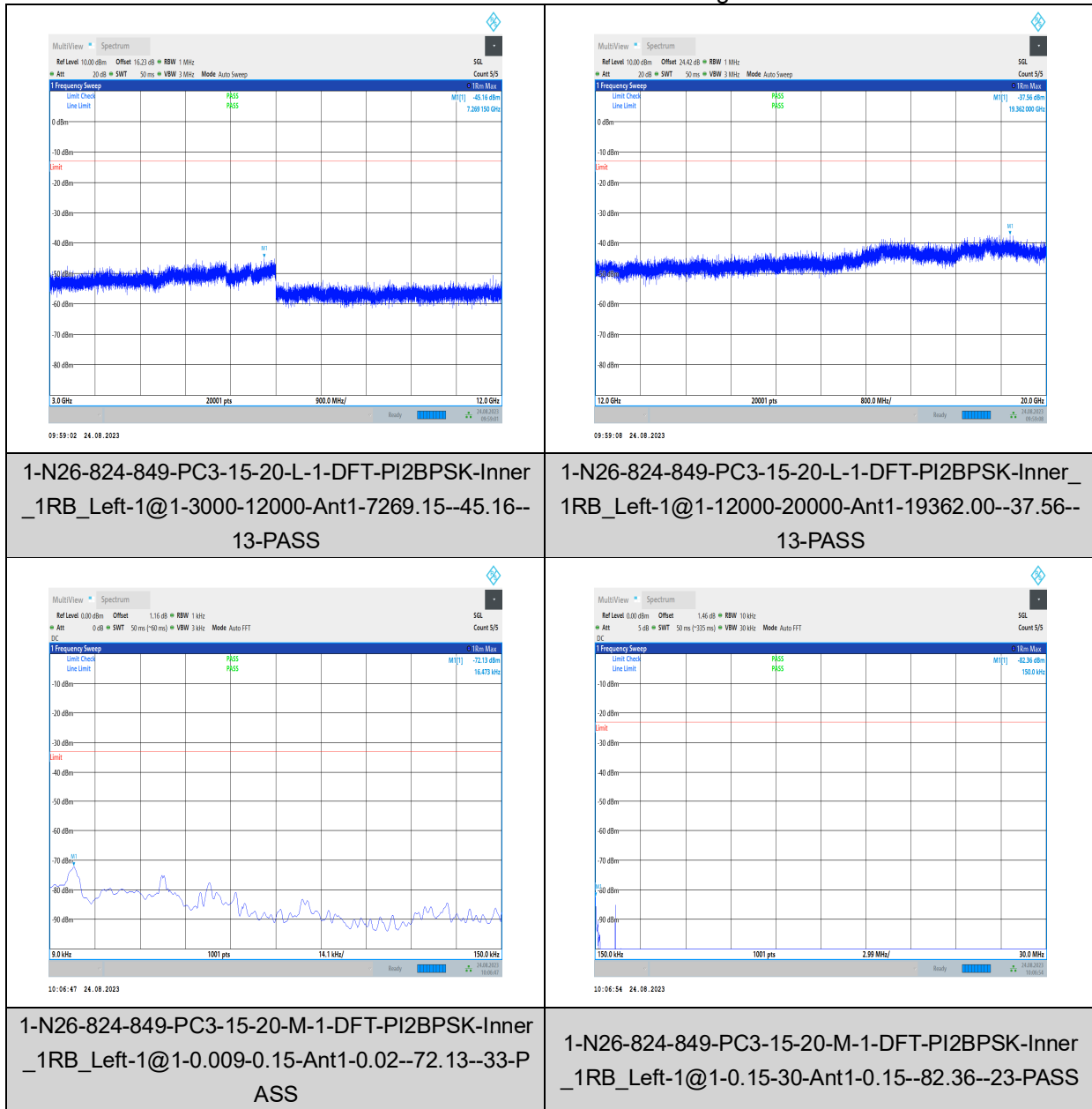
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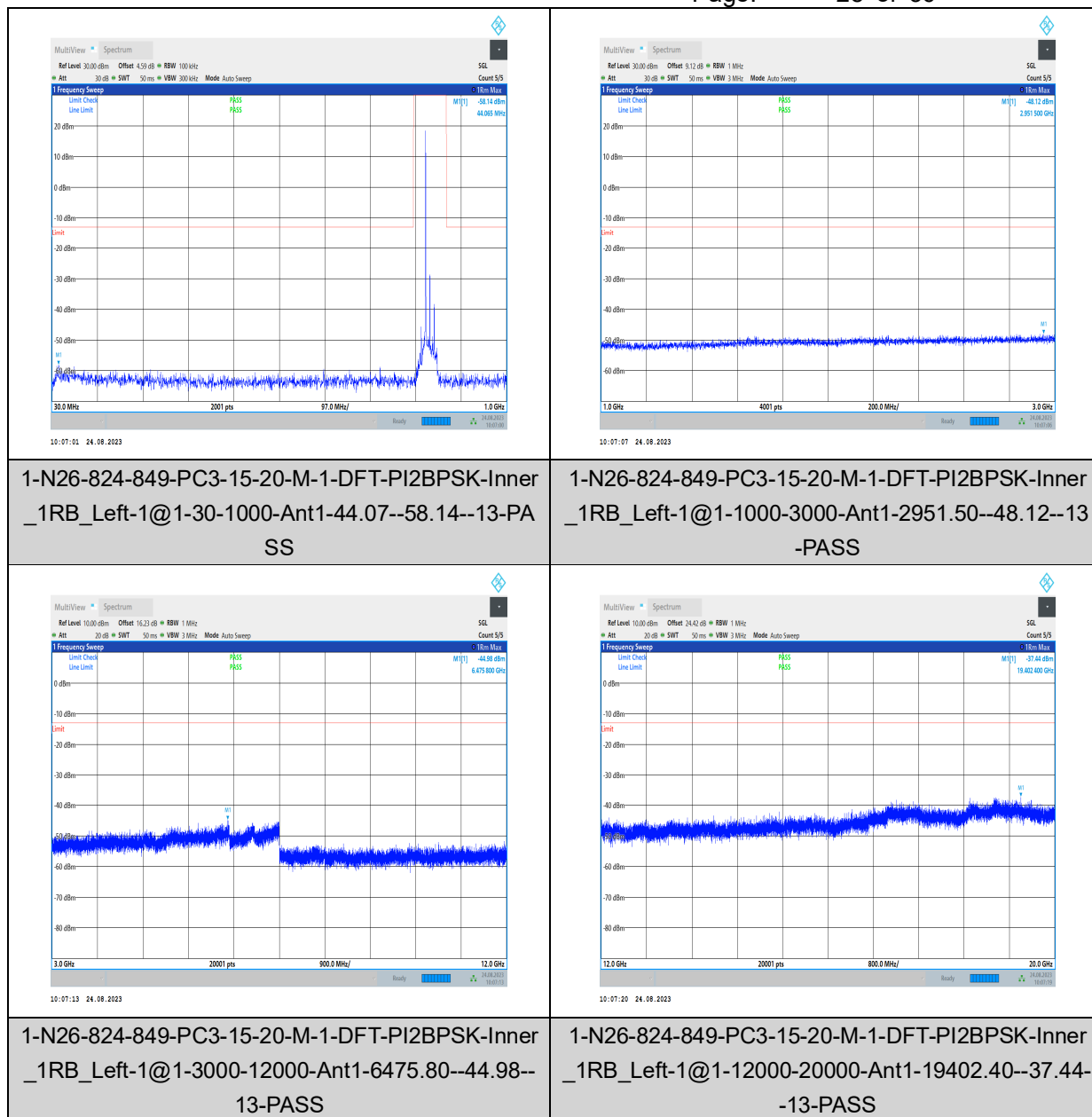
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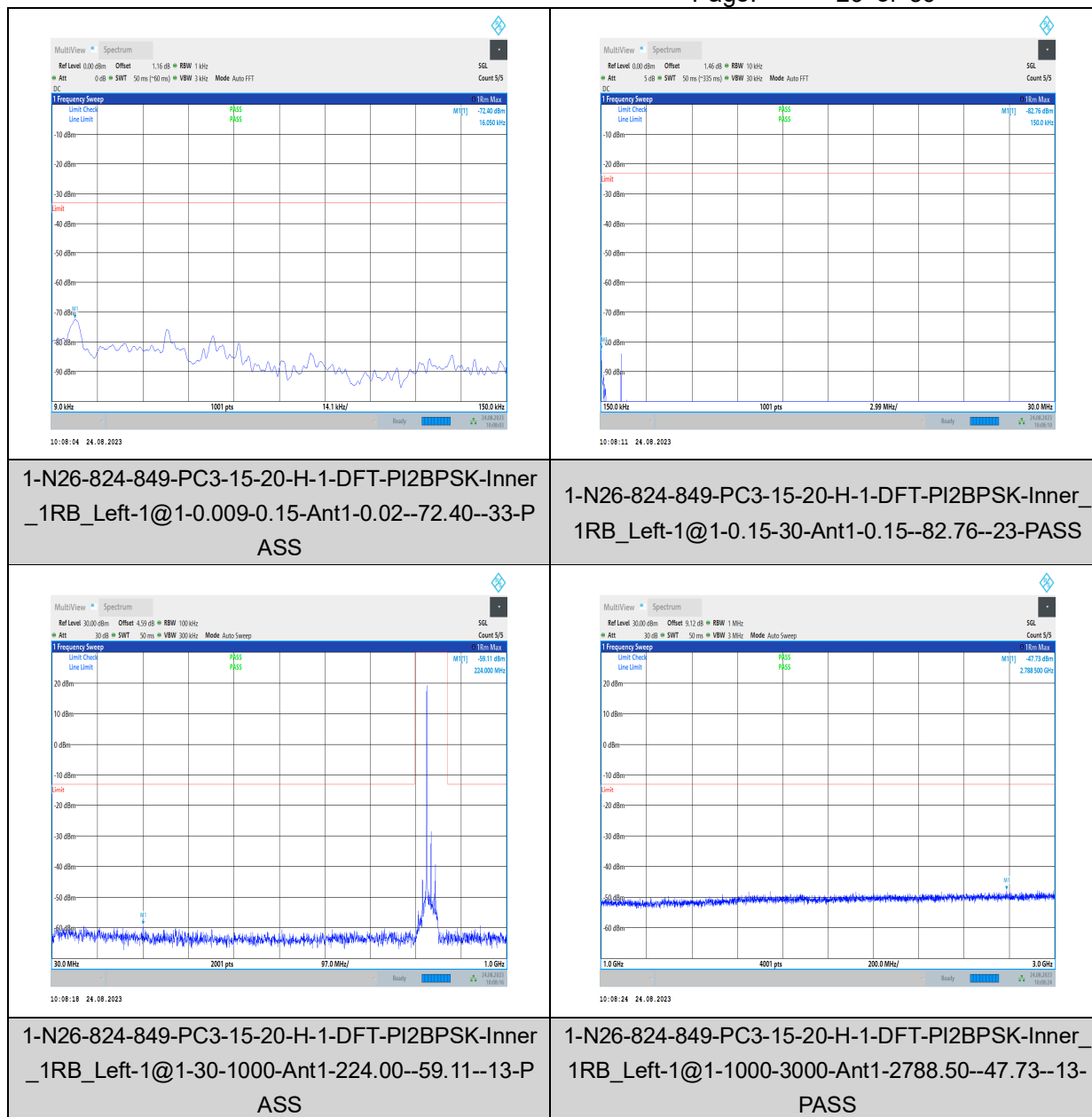
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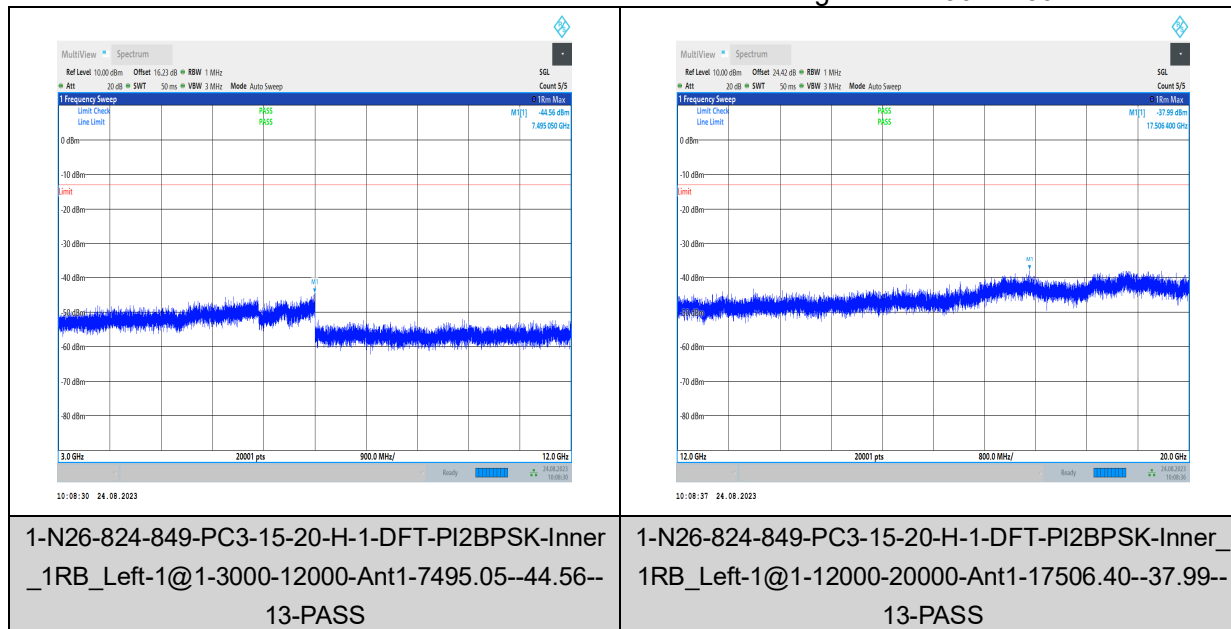
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Field Strength of Spurious Radiation

Test Band = SA Band26_15MHz_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1550.2857	44.50	-48.30	25.18	-73.88	-13.00	60.88	Horizontal
2	2339.4286	43.81	-47.48	26.85	-72.08	-13.00	59.08	Horizontal
3	2976	43.44	-46.53	28.25	-70.10	-13.00	57.10	Horizontal
4	3649.1429	42.01	-46.25	28.75	-70.75	-13.00	57.75	Horizontal
5	4878.2857	42.21	-45.59	31.13	-67.51	-13.00	54.51	Horizontal
6	5910.2857	41.19	-44.91	32.68	-66.30	-13.00	53.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1570.8571	44.55	-48.29	25.19	-73.82	-13.00	60.82	Vertical
2	2242.8571	44.06	-47.60	26.58	-72.22	-13.00	59.22	Vertical
3	2814.8571	43.73	-46.87	27.93	-70.47	-13.00	57.47	Vertical
4	3532	42.96	-46.48	28.63	-70.14	-13.00	57.14	Vertical
5	5600	40.96	-45.27	32.62	-66.95	-13.00	53.95	Vertical
6	6355.4286	40.15	-44.68	33.84	-65.95	-13.00	52.95	Vertical



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Test Band = SA Band26_15MHz _ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1744	44.19	-48.07	25.42	-73.72	-13.00	60.72	Horizontal
2	2298.8571	43.51	-47.50	26.74	-72.52	-13.00	59.52	Horizontal
3	3024	43.35	-46.58	28.31	-70.17	-13.00	57.17	Horizontal
4	3845.7143	42.32	-46.19	28.95	-70.19	-13.00	57.19	Horizontal
5	6654.8571	40.61	-44.25	34.58	-64.33	-13.00	51.33	Horizontal
6	7751.4286	38.99	-42.96	36.70	-62.53	-13.00	49.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1501.7143	44.38	-48.32	25.15	-74.05	-13.00	61.05	Vertical
2	2034.2857	44.28	-47.83	26.00	-72.82	-13.00	59.82	Vertical
3	2265.7143	43.85	-47.56	26.64	-72.33	-13.00	59.33	Vertical
4	3053.1429	43.23	-46.64	28.33	-70.34	-13.00	57.34	Vertical
5	4430.2857	42.13	-45.80	30.13	-68.80	-13.00	55.80	Vertical
6	6008	40.87	-44.45	32.73	-66.12	-13.00	53.12	Vertical



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Test Band = SA Band26_15MHz _ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1595.4286	45.11	-48.28	25.20	-73.23	-13.00	60.23	Horizontal
2	2415.4286	43.65	-47.42	27.06	-71.97	-13.00	58.97	Horizontal
3	2993.7143	43.28	-46.52	28.29	-70.22	-13.00	57.22	Horizontal
4	4310.8571	42.03	-45.79	29.85	-69.18	-13.00	56.18	Horizontal
5	5737.1429	40.93	-44.60	32.65	-66.29	-13.00	53.29	Horizontal
6	6804.5714	40.23	-44.12	34.85	-64.30	-13.00	51.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2003.4286	43.79	-47.89	25.91	-73.45	-13.00	60.45	Vertical
2	3232	42.92	-46.41	28.44	-70.32	-13.00	57.32	Vertical
3	4352	41.90	-45.84	29.94	-69.25	-13.00	56.25	Vertical
4	5849.7143	40.98	-44.81	32.67	-66.42	-13.00	53.42	Vertical
5	7752.5714	39.16	-42.95	36.70	-62.35	-13.00	49.35	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level





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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage											
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit	Verdict
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-7.100000	-0.008488	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.800000	-0.006934	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.400000	-0.005260	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	VH	NT	-5.600000	-0.006695	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	VN	NT	-6.100000	-0.007292	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	VL	NT	-5.400000	-0.006455	±2.5	PASS



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Frequency Error VS. Temperature

Temperature											
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit	Verdict
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-5.400000	-0.006455	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.700000	-0.006814	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-6.800000	-0.008129	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-6.400000	-0.007651	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-6.700000	-0.008010	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-7.100000	-0.008488	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-7.200000	-0.008607	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.400000	-0.006455	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-5.100000	-0.006097	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	-30	-5.200000	-0.006216	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	-20	-3.900000	-0.004662	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	-10	-5.900000	-0.007053	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	0	-6.100000	-0.007292	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	10	-4.800000	-0.005738	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	20	-5.200000	-0.006216	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	30	-2.900000	-0.003467	±2.5	PASS



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N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	40	-4.600000	-0.005499	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	50	-5.400000	-0.006455	±2.5	PASS

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