

Appendix Test Data

Report No.:	18220WC40024204	Test Sample No.:	1-2-2
Start Test Date:	2024.02.02	Finish Test Date:	2024.02.27.
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	57 %
Pressure:	101 kPa		

Appendix A: Conducted Output Power

Test Result

Band	Channel	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.40	33.00	PASS
GSM1900	661	30.17	33.00	PASS
GSM1900	810	29.77	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	29.41	33.00	PASS
GPRS1900	512	2	28.58	33.00	PASS
GPRS1900	512	3	26.72	33.00	PASS
GPRS1900	512	4	25.60	33.00	PASS
GPRS1900	661	1	30.17	33.00	PASS
GPRS1900	661	2	29.50	33.00	PASS
GPRS1900	661	3	27.84	33.00	PASS
GPRS1900	661	4	26.78	33.00	PASS
GPRS1900	810	1	29.77	33.00	PASS
GPRS1900	810	2	29.12	33.00	PASS
GPRS1900	810	3	27.44	33.00	PASS

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0					
GPRS1900	810	4	26.40	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	24.73	33.00	PASS
EGPRS1900	512	2	23.59	33.00	PASS
EGPRS1900	512	3	21.34	33.00	PASS
EGPRS1900	512	4	19.94	33.00	PASS
EGPRS1900	661	1	26.14	33.00	PASS
EGPRS1900	661	2	24.92	33.00	PASS
EGPRS1900	661	3	22.65	33.00	PASS
EGPRS1900	661	4	21.29	33.00	PASS
EGPRS1900	810	1	25.97	33.00	PASS
EGPRS1900	810	2	24.77	33.00	PASS
EGPRS1900	810	3	22.49	33.00	PASS
EGPRS1900	810	4	21.10	33.00	PASS

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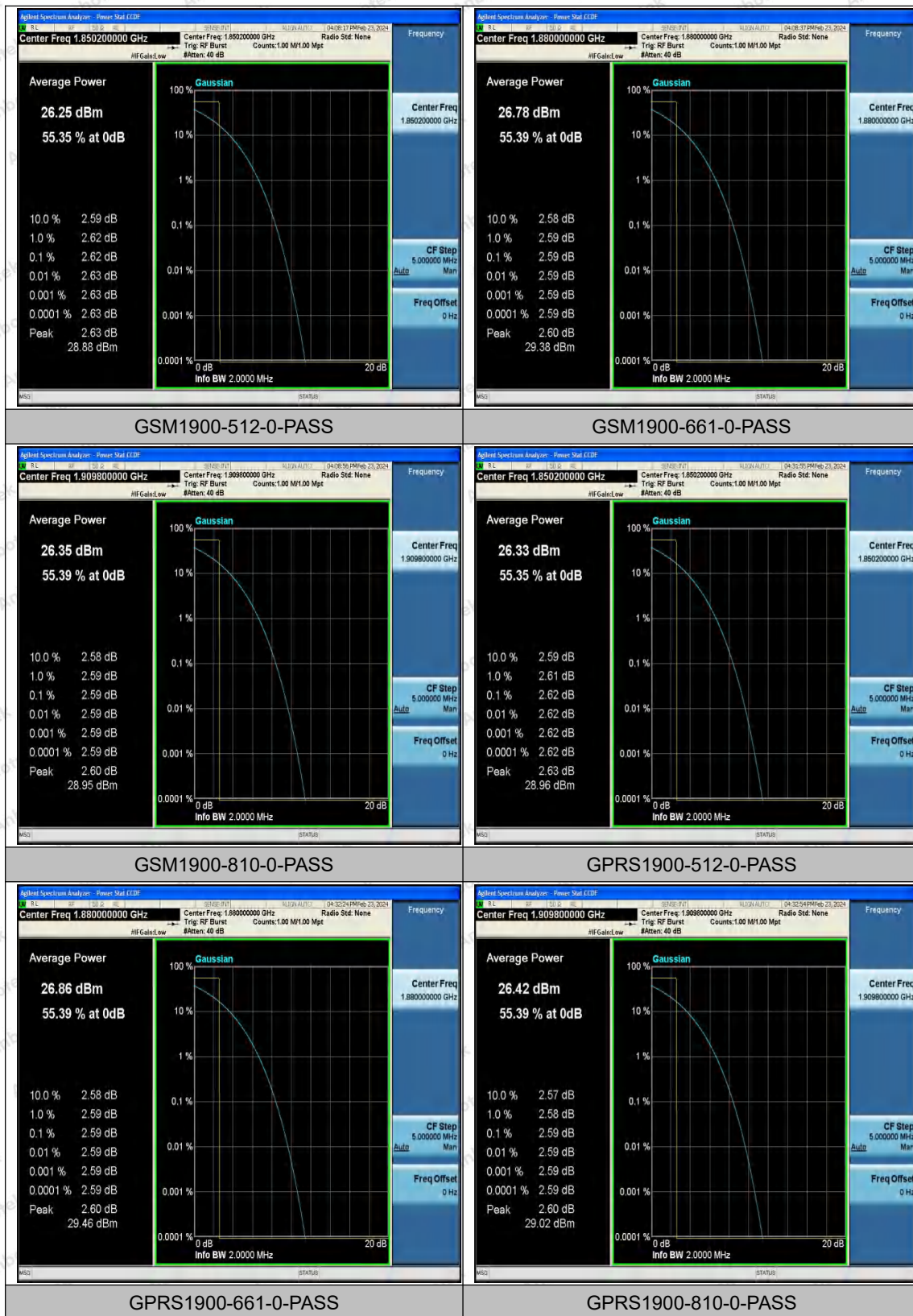
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	2.62	13	PASS
GSM1900	661	2.59	13	PASS
GSM1900	810	2.59	13	PASS
GPRS1900	512	2.62	13	PASS
GPRS1900	661	2.59	13	PASS
GPRS1900	810	2.59	13	PASS
EGPRS1900	512	5.41	13	PASS
EGPRS1900	661	5.66	13	PASS
EGPRS1900	810	5.66	13	PASS



Test Graphs





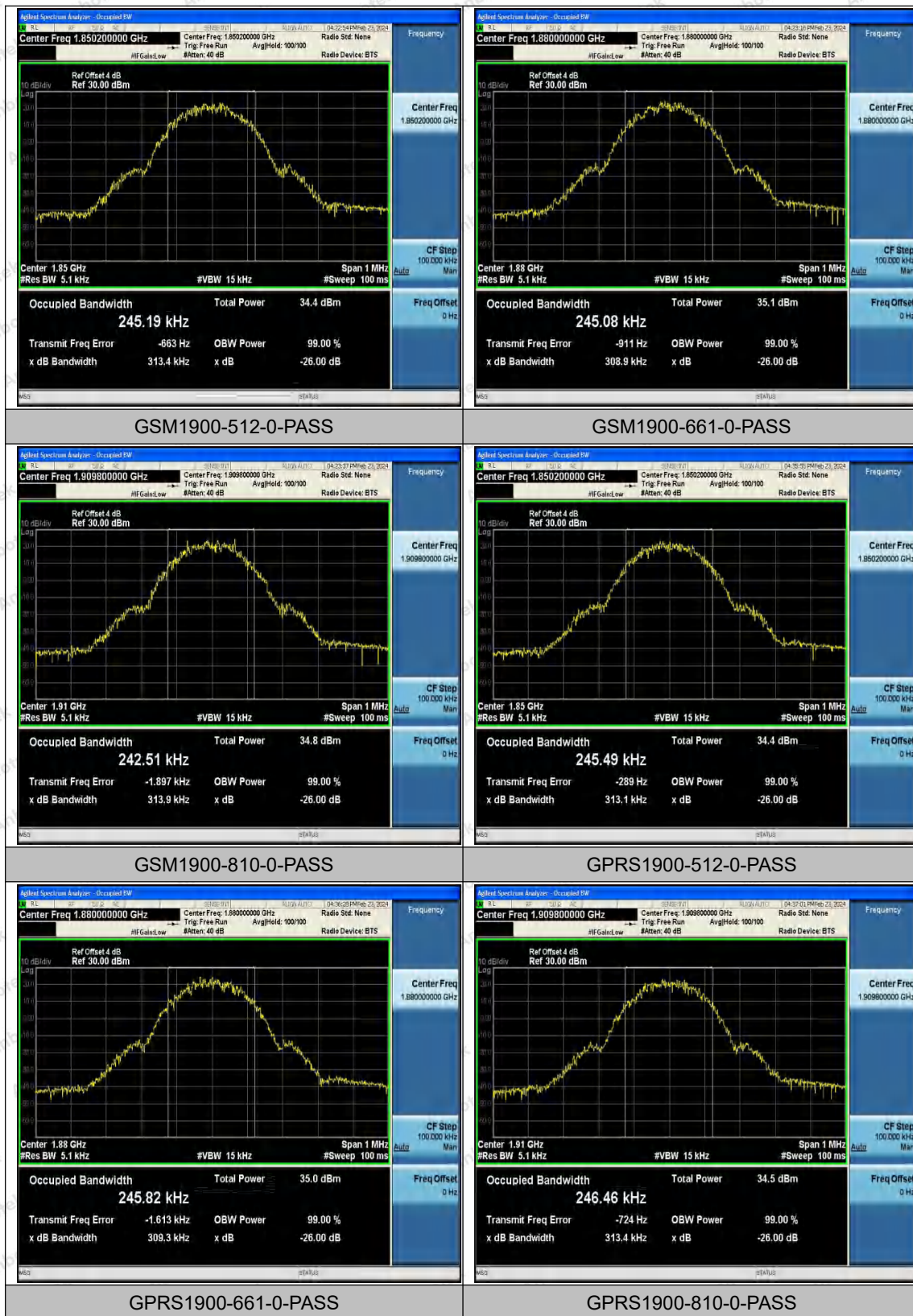
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.24519	0.3134	---	PASS
GSM1900	661	0.24508	0.3089	---	PASS
GSM1900	810	0.24251	0.3139	---	PASS
GPRS1900	512	0.24549	0.3131	---	PASS
GPRS1900	661	0.24582	0.3093	---	PASS
GPRS1900	810	0.24646	0.3134	---	PASS
EGPRS1900	512	0.25137	0.3196	---	PASS
EGPRS1900	661	0.24801	0.3091	---	PASS
EGPRS1900	810	0.25126	0.3138	---	PASS



Test Graphs



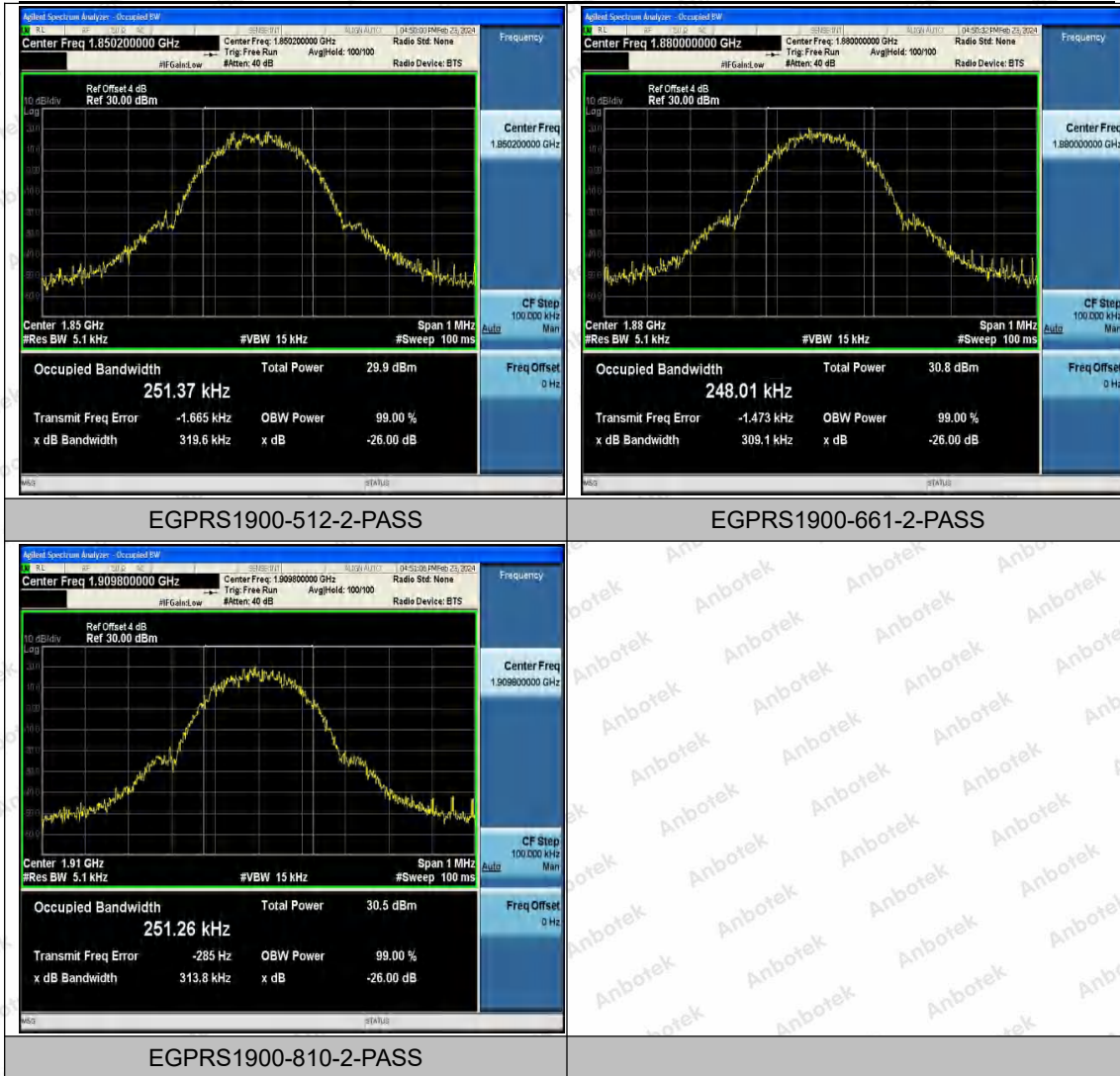
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Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1850.00	-27.99	-13	PASS
GSM1900	810	1910.02	-28.51	-13	PASS
GPRS1900	512	1849.97	-30.12	-13	PASS
GPRS1900	810	1910.02	-28.14	-13	PASS
EGPRS1900	512	1849.98	-38.17	-13	PASS
EGPRS1900	810	1910.03	-37.57	-13	PASS

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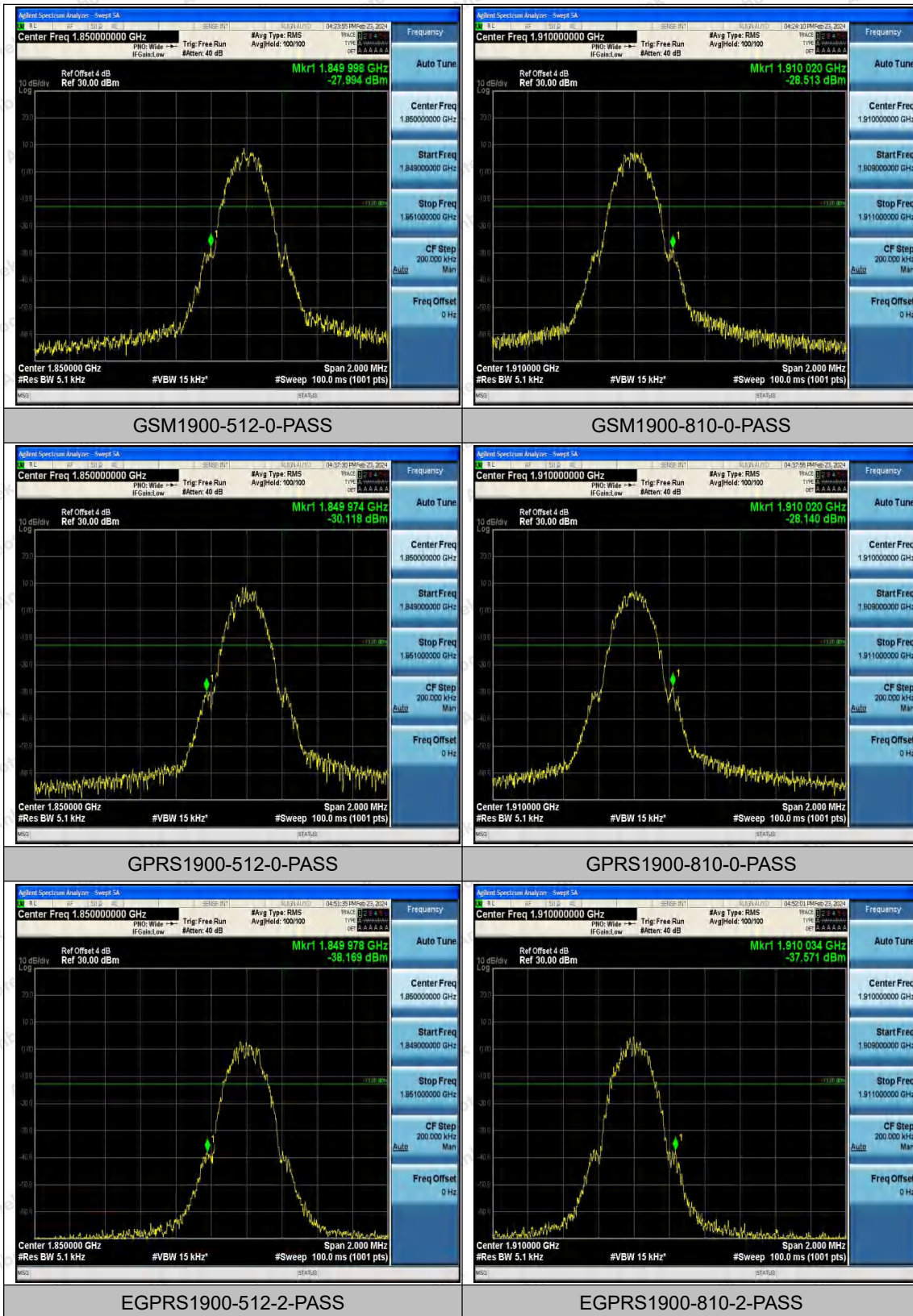
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Test Graphs



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Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-55.47	-43	PASS
GSM1900	512	0.15~30MHz	0.16	-51.58	-33	PASS
GSM1900	512	30~1000MHz	814.54	-47.27	-13	PASS
GSM1900	512	1000~3000MHz	2647.73	-37.92	-13	PASS
GSM1900	512	3000~18000MHz	3700.5	-46.99	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-54.41	-43	PASS
GSM1900	661	0.15~30MHz	0.16	-49.89	-33	PASS
GSM1900	661	30~1000MHz	893.33	-47.15	-13	PASS
GSM1900	661	1000~3000MHz	2641.2	-38.04	-13	PASS
GSM1900	661	3000~18000MHz	5640	-48.81	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-55.75	-43	PASS
GSM1900	810	0.15~30MHz	0.16	-51.4	-33	PASS
GSM1900	810	30~1000MHz	857.44	-47.32	-13	PASS
GSM1900	810	1000~3000MHz	2667	-38.16	-13	PASS
GSM1900	810	3000~18000MHz	5729.5	-42.8	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-54.26	-43	PASS
GPRS1900	512	0.15~30MHz	0.16	-52.12	-33	PASS
GPRS1900	512	30~1000MHz	852.4	-47.19	-13	PASS
GPRS1900	512	1000~3000MHz	2634.8	-37.96	-13	PASS
GPRS1900	512	3000~18000MHz	16246	-49.72	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-55.76	-43	PASS
GPRS1900	661	0.15~30MHz	0.15	-50.99	-33	PASS
GPRS1900	661	30~1000MHz	793.65	-47.31	-13	PASS
GPRS1900	661	1000~3000MHz	2652.13	-38.08	-13	PASS
GPRS1900	661	3000~18000MHz	5640	-45.25	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-54.69	-43	PASS
GPRS1900	810	0.15~30MHz	0.16	-50.83	-33	PASS
GPRS1900	810	30~1000MHz	922.69	-47.18	-13	PASS
GPRS1900	810	1000~3000MHz	2673.93	-38.02	-13	PASS
GPRS1900	810	3000~18000MHz	16252	-49.63	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-55.78	-43	PASS
EGPRS1900	512	0.15~30MHz	0.16	-51.34	-33	PASS
EGPRS1900	512	30~1000MHz	794.26	-47.29	-13	PASS
EGPRS1900	512	1000~3000MHz	2639.6	-38	-13	PASS
EGPRS1900	512	3000~18000MHz	16256.5	-49.74	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-55.07	-43	PASS

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EGPRS1900	661	0.15~30MHz	0.16	-51.09	-33	PASS
EGPRS1900	661	30~1000MHz	898.57	-47.19	-13	PASS
EGPRS1900	661	1000~3000MHz	2664.8	-37.96	-13	PASS
EGPRS1900	661	3000~18000MHz	16244	-49.64	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-55.89	-43	PASS
EGPRS1900	810	0.15~30MHz	0.15	-51.04	-33	PASS
EGPRS1900	810	30~1000MHz	938.21	-47.22	-13	PASS
EGPRS1900	810	1000~3000MHz	2642.2	-37.96	-13	PASS
EGPRS1900	810	3000~18000MHz	16275	-49.53	-13	PASS

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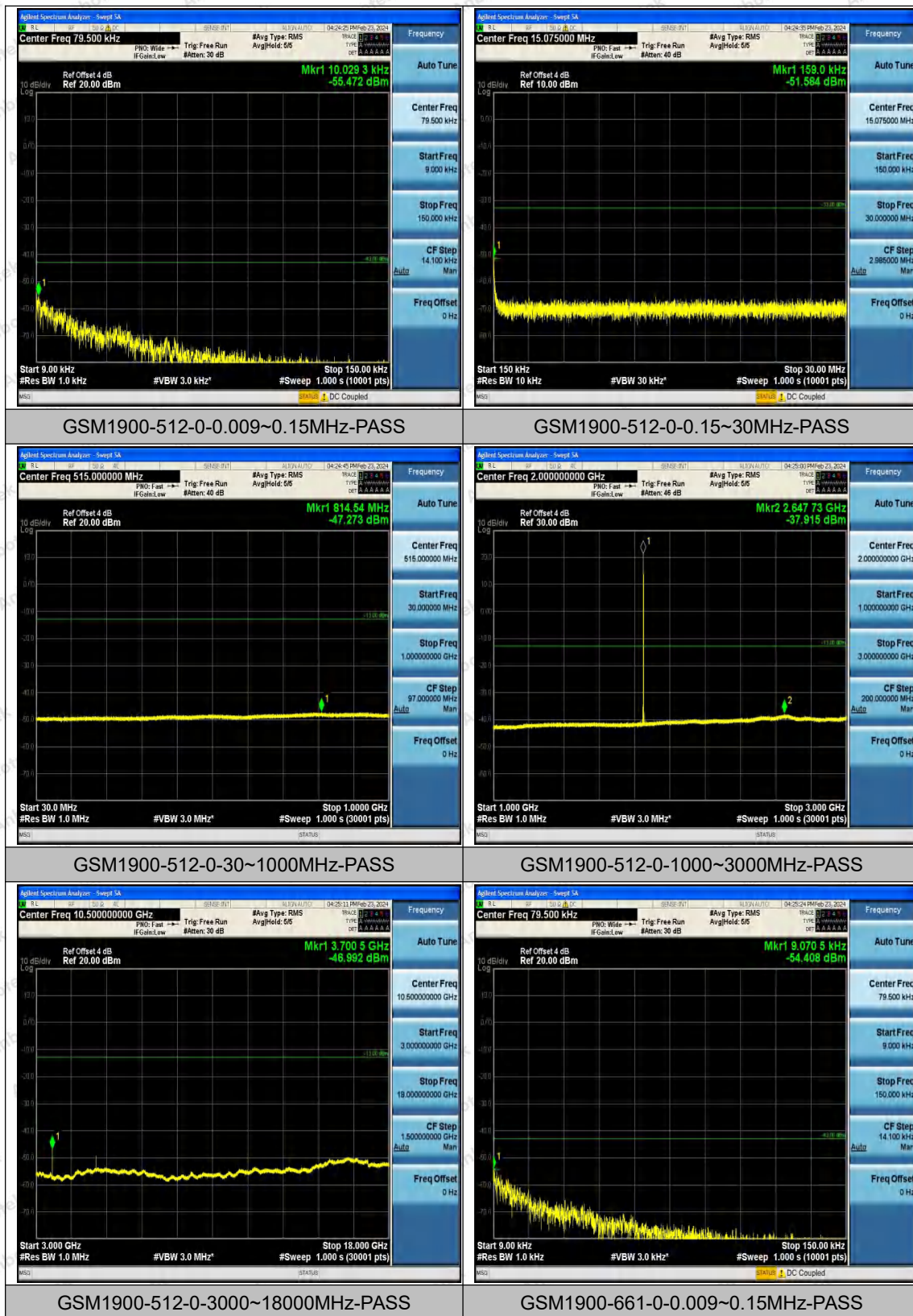
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Test Graphs



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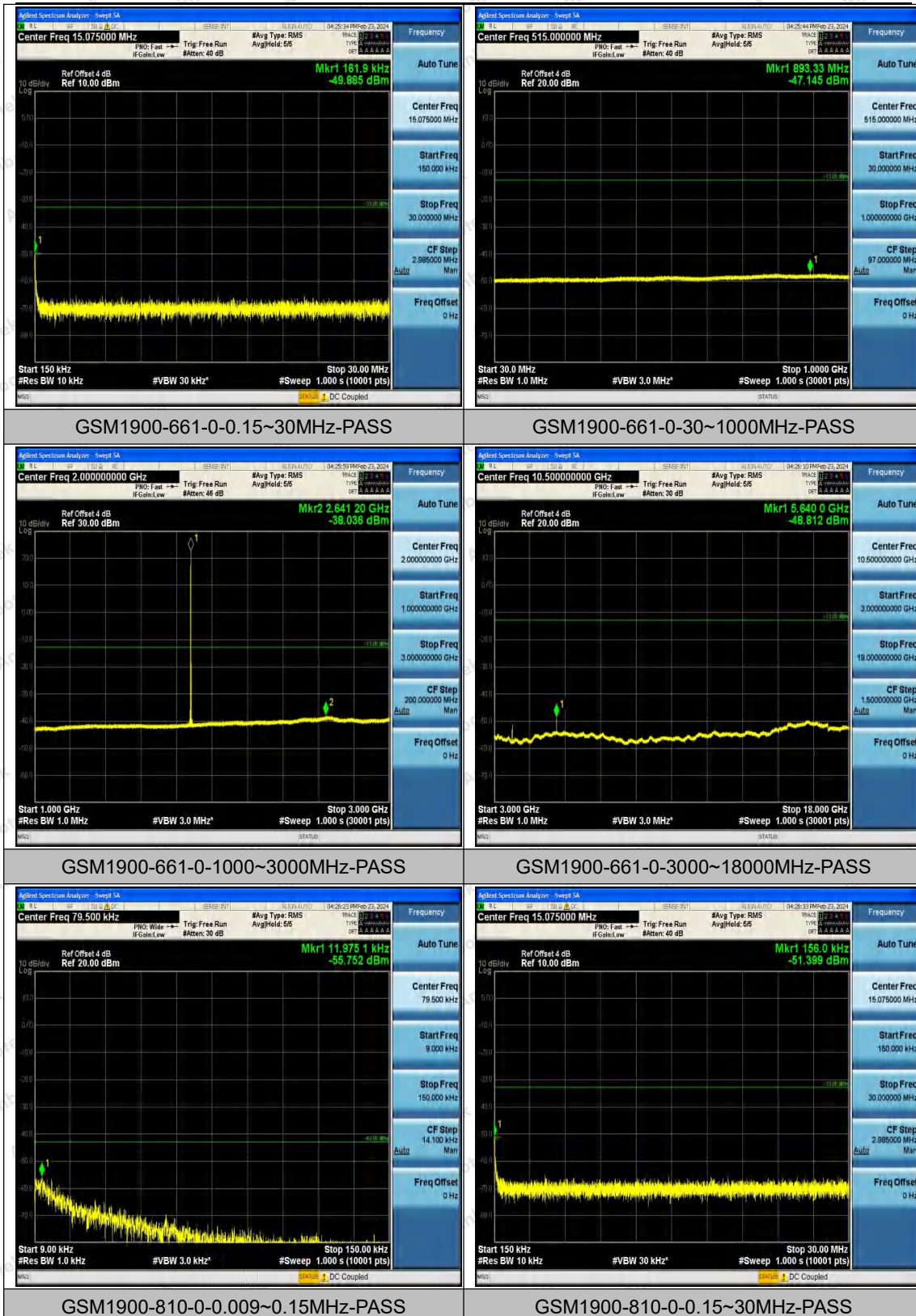


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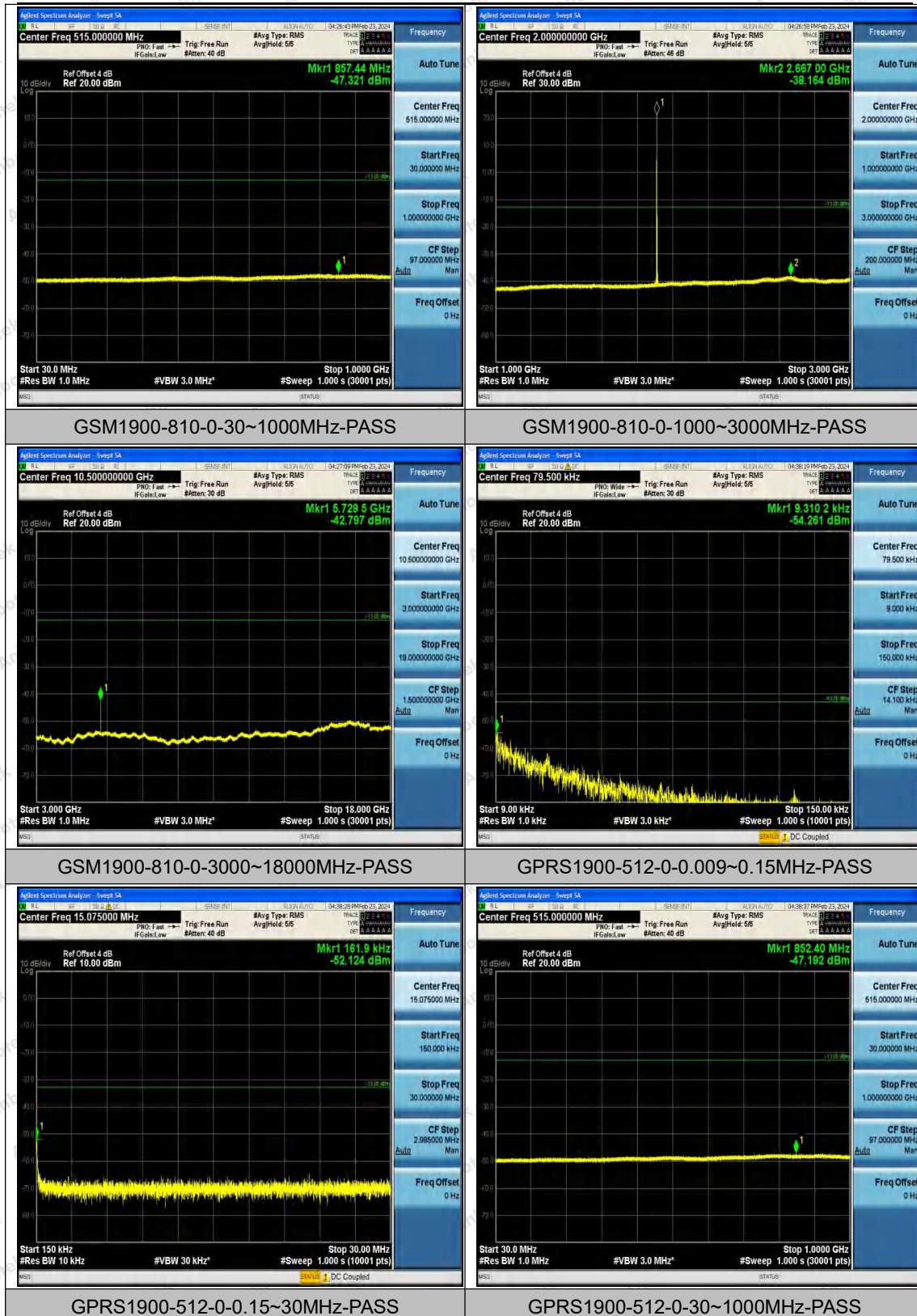
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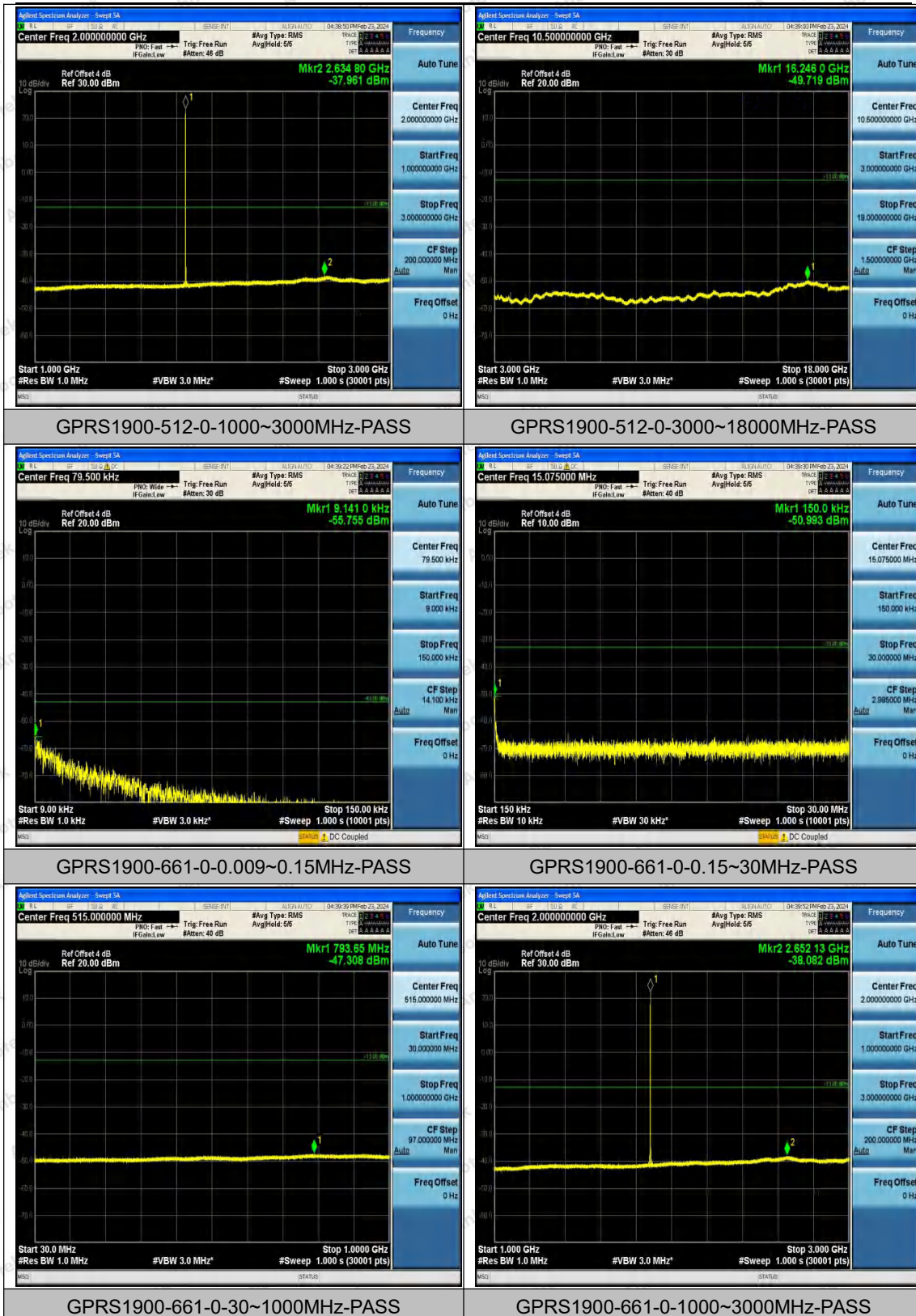
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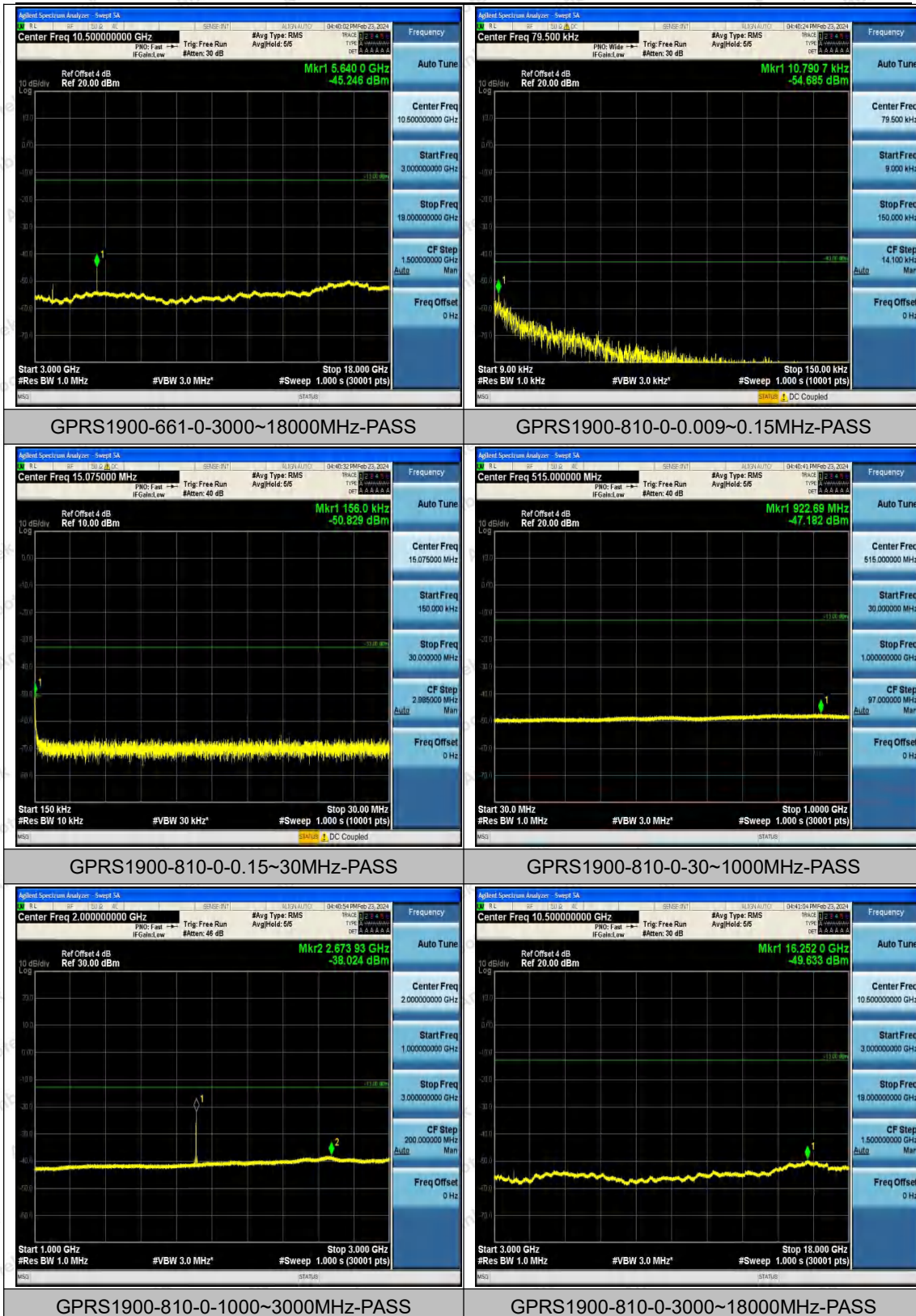
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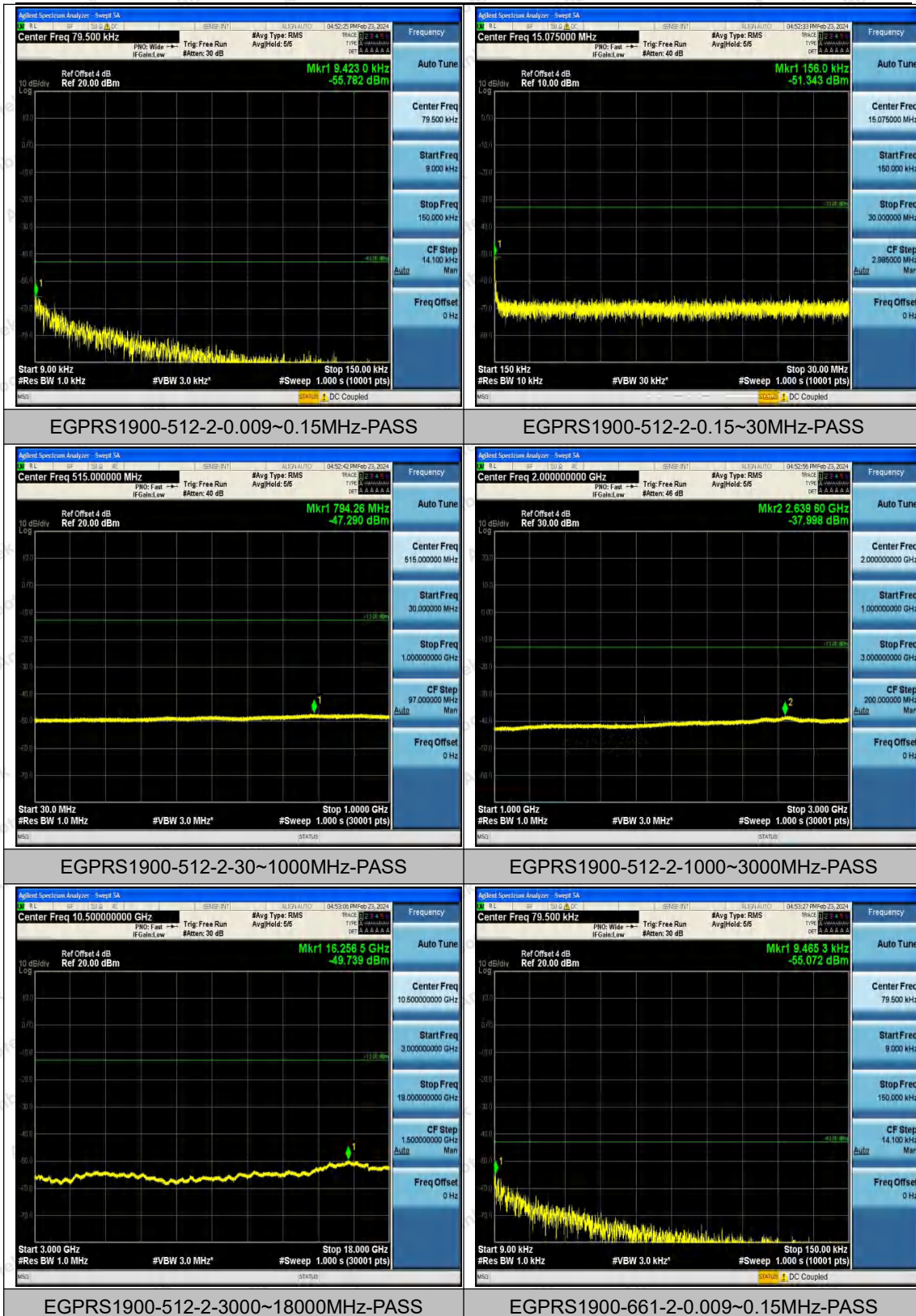
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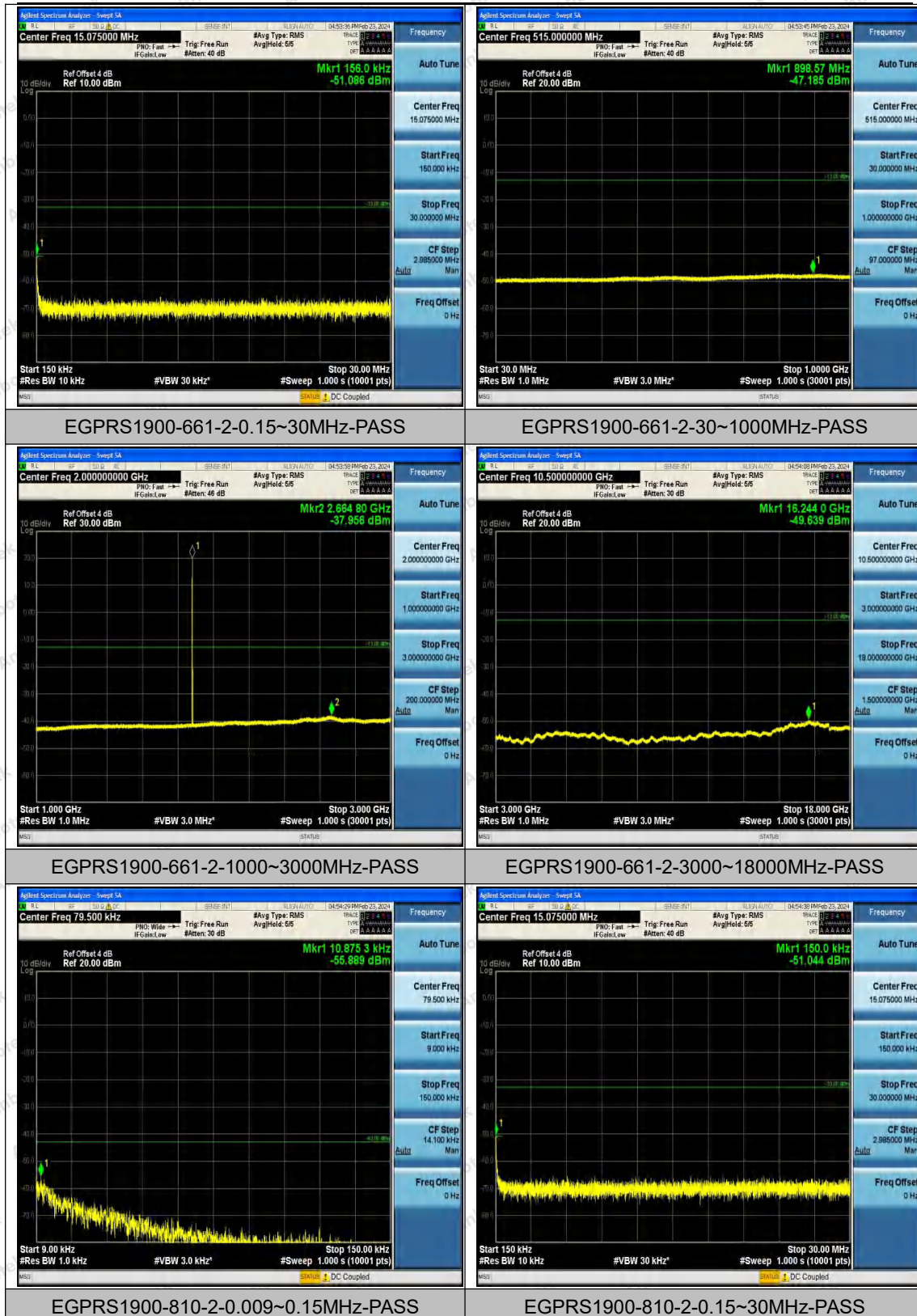


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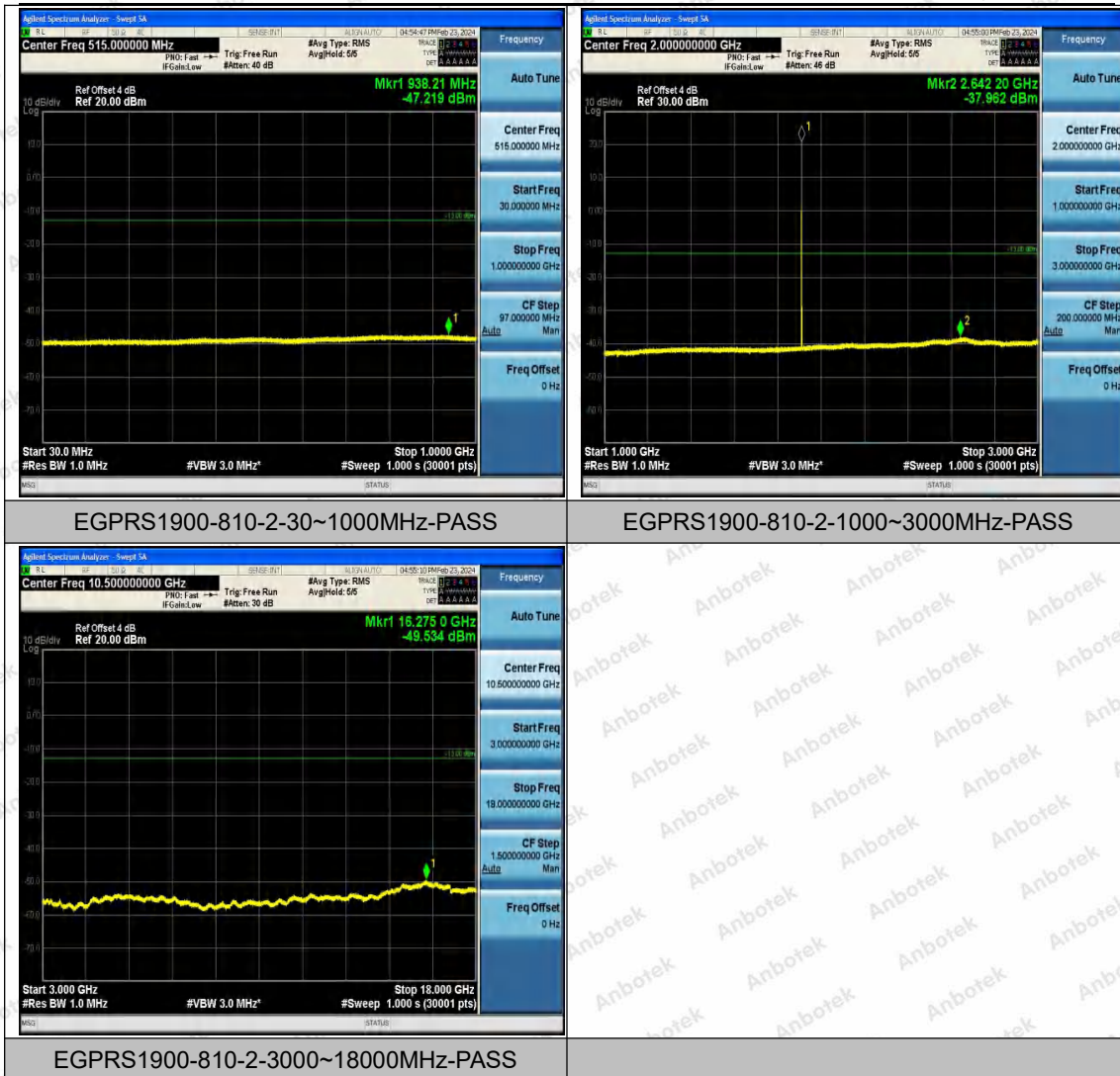
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Appendix F: Frequency Stability

Test Result

Band	Channel	Voltage					
		Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VN	NT	12.24	0.006616	±2.5	PASS
GSM1900	512	VL	NT	12.30	0.006648	±2.5	PASS
GSM1900	512	VH	NT	14.72	0.007956	±2.5	PASS
GSM1900	661	VN	NT	19.86	0.010564	±2.5	PASS
GSM1900	661	VL	NT	17.56	0.009340	±2.5	PASS
GSM1900	661	VH	NT	17.21	0.009154	±2.5	PASS
GSM1900	810	VN	NT	18.31	0.009587	±2.5	PASS
GSM1900	810	VL	NT	22.21	0.011629	±2.5	PASS
GSM1900	810	VH	NT	21.31	0.011158	±2.5	PASS
GPRS1900	512	VN	NT	8.65	0.004675	±2.5	PASS
GPRS1900	512	VL	NT	10.85	0.005864	±2.5	PASS
GPRS1900	512	VH	NT	11.46	0.006194	±2.5	PASS
GPRS1900	661	VN	NT	14.27	0.007590	±2.5	PASS
GPRS1900	661	VL	NT	13.92	0.007404	±2.5	PASS
GPRS1900	661	VH	NT	14.50	0.007713	±2.5	PASS
GPRS1900	810	VN	NT	20.95	0.010970	±2.5	PASS
GPRS1900	810	VL	NT	21.34	0.011174	±2.5	PASS
GPRS1900	810	VH	NT	22.99	0.012038	±2.5	PASS
EGPRS1900	512	VN	NT	14.14	0.007642	±2.5	PASS
EGPRS1900	512	VL	NT	11.95	0.006459	±2.5	PASS
EGPRS1900	512	VH	NT	15.53	0.008394	±2.5	PASS
EGPRS1900	661	VN	NT	16.24	0.008638	±2.5	PASS
EGPRS1900	661	VL	NT	16.79	0.008931	±2.5	PASS
EGPRS1900	661	VH	NT	19.27	0.010250	±2.5	PASS
EGPRS1900	810	VN	NT	13.27	0.006948	±2.5	PASS
EGPRS1900	810	VL	NT	12.59	0.006592	±2.5	PASS
EGPRS1900	810	VH	NT	14.21	0.007441	±2.5	PASS



Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	13.33	0.007205	±2.5	PASS
GSM1900	512	NV	-20	12.11	0.006545	±2.5	PASS
GSM1900	512	NV	-10	5.26	0.002843	±2.5	PASS
GSM1900	512	NV	0	8.94	0.004832	±2.5	PASS
GSM1900	512	NV	10	9.88	0.005340	±2.5	PASS
GSM1900	512	NV	20	13.43	0.007259	±2.5	PASS
GSM1900	512	NV	30	7.75	0.004189	±2.5	PASS
GSM1900	512	NV	40	13.66	0.007383	±2.5	PASS
GSM1900	512	NV	50	9.52	0.005145	±2.5	PASS
GSM1900	661	NV	-30	16.85	0.008963	±2.5	PASS
GSM1900	661	NV	-20	18.89	0.010048	±2.5	PASS
GSM1900	661	NV	-10	18.73	0.009963	±2.5	PASS
GSM1900	661	NV	0	18.37	0.009771	±2.5	PASS
GSM1900	661	NV	10	23.50	0.012500	±2.5	PASS
GSM1900	661	NV	20	12.95	0.006888	±2.5	PASS
GSM1900	661	NV	30	11.82	0.006287	±2.5	PASS
GSM1900	661	NV	40	21.89	0.011644	±2.5	PASS
GSM1900	661	NV	50	19.24	0.010234	±2.5	PASS
GSM1900	810	NV	-30	19.50	0.010210	±2.5	PASS
GSM1900	810	NV	-20	24.57	0.012865	±2.5	PASS
GSM1900	810	NV	-10	21.57	0.011294	±2.5	PASS
GSM1900	810	NV	0	24.83	0.013001	±2.5	PASS
GSM1900	810	NV	10	23.86	0.012493	±2.5	PASS
GSM1900	810	NV	20	15.82	0.008284	±2.5	PASS
GSM1900	810	NV	30	23.47	0.012289	±2.5	PASS
GSM1900	810	NV	40	23.60	0.012357	±2.5	PASS
GSM1900	810	NV	50	24.31	0.012729	±2.5	PASS
GPRS1900	512	NV	-30	9.33	0.005043	±2.5	PASS
GPRS1900	512	NV	-20	11.01	0.005951	±2.5	PASS
GPRS1900	512	NV	-10	7.52	0.004064	±2.5	PASS
GPRS1900	512	NV	0	6.49	0.003508	±2.5	PASS
GPRS1900	512	NV	10	8.07	0.004362	±2.5	PASS
GPRS1900	512	NV	20	8.65	0.004675	±2.5	PASS
GPRS1900	512	NV	30	5.78	0.003124	±2.5	PASS
GPRS1900	512	NV	40	6.49	0.003508	±2.5	PASS
GPRS1900	512	NV	50	7.04	0.003805	±2.5	PASS
GPRS1900	661	NV	-30	15.82	0.008415	±2.5	PASS

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GPRS1900	661	NV	-20	14.46	0.007691	±2.5	PASS
GPRS1900	661	NV	-10	14.37	0.007644	±2.5	PASS
GPRS1900	661	NV	0	17.79	0.009463	±2.5	PASS
GPRS1900	661	NV	10	12.33	0.006559	±2.5	PASS
GPRS1900	661	NV	20	17.76	0.009447	±2.5	PASS
GPRS1900	661	NV	30	20.63	0.010973	±2.5	PASS
GPRS1900	661	NV	40	15.01	0.007984	±2.5	PASS
GPRS1900	661	NV	50	9.30	0.004947	±2.5	PASS
GPRS1900	810	NV	-30	19.44	0.010179	±2.5	PASS
GPRS1900	810	NV	-20	19.95	0.010446	±2.5	PASS
GPRS1900	810	NV	-10	15.24	0.007980	±2.5	PASS
GPRS1900	810	NV	0	17.21	0.009011	±2.5	PASS
GPRS1900	810	NV	10	18.47	0.009671	±2.5	PASS
GPRS1900	810	NV	20	11.85	0.006205	±2.5	PASS
GPRS1900	810	NV	30	11.36	0.005948	±2.5	PASS
GPRS1900	810	NV	40	11.78	0.006168	±2.5	PASS
GPRS1900	810	NV	50	15.85	0.008299	±2.5	PASS
EGPRS1900	512	NV	-30	13.37	0.007226	±2.5	PASS
EGPRS1900	512	NV	-20	13.79	0.007453	±2.5	PASS
EGPRS1900	512	NV	-10	11.85	0.006405	±2.5	PASS
EGPRS1900	512	NV	0	13.85	0.007486	±2.5	PASS
EGPRS1900	512	NV	10	12.40	0.006702	±2.5	PASS
EGPRS1900	512	NV	20	21.79	0.011777	±2.5	PASS
EGPRS1900	512	NV	30	12.75	0.006891	±2.5	PASS
EGPRS1900	512	NV	40	15.85	0.008567	±2.5	PASS
EGPRS1900	512	NV	50	16.53	0.008934	±2.5	PASS
EGPRS1900	661	NV	-30	14.75	0.007846	±2.5	PASS
EGPRS1900	661	NV	-20	13.37	0.007112	±2.5	PASS
EGPRS1900	661	NV	-10	13.20	0.007021	±2.5	PASS
EGPRS1900	661	NV	0	17.14	0.009117	±2.5	PASS

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline
400-003-0500
www.anbotek.com.cn



0							
EGPRS190	661	NV	10	16.59	0.008824	±2.5	PASS
0							
EGPRS190	661	NV	20	18.31	0.009739	±2.5	PASS
0							
EGPRS190	661	NV	30	16.76	0.008915	±2.5	PASS
0							
EGPRS190	661	NV	40	16.40	0.008723	±2.5	PASS
0							
EGPRS190	661	NV	50	16.85	0.008963	±2.5	PASS
0							
EGPRS190	810	NV	-30	14.50	0.007592	±2.5	PASS
0							
EGPRS190	810	NV	-20	16.76	0.008776	±2.5	PASS
0							
EGPRS190	810	NV	-10	18.50	0.009687	±2.5	PASS
0							
EGPRS190	810	NV	0	17.66	0.009247	±2.5	PASS
0							
EGPRS190	810	NV	10	14.72	0.007708	±2.5	PASS
0							
EGPRS190	810	NV	20	15.27	0.007996	±2.5	PASS
0							
EGPRS190	810	NV	30	14.04	0.007352	±2.5	PASS
0							
EGPRS190	810	NV	40	13.82	0.007236	±2.5	PASS
0							
EGPRS190	810	NV	50	17.24	0.009027	±2.5	PASS
0							

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