

Appendix Test Data

Report No.:	18220WC40069802	Test Sample No.:	1-2-2
Start Test Date:	2024.4.13	Finish Test Date:	2024.4.30
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	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	28.64	33.00	PASS
GPRS1900	512	2	26.07	33.00	PASS
GPRS1900	512	3	24.40	33.00	PASS
GPRS1900	512	4	22.42	33.00	PASS
GPRS1900	661	1	28.51	33.00	PASS
GPRS1900	661	2	26.17	33.00	PASS
GPRS1900	661	3	24.59	33.00	PASS
GPRS1900	661	4	22.60	33.00	PASS
GPRS1900	810	1	27.27	33.00	PASS
GPRS1900	810	2	25.29	33.00	PASS
GPRS1900	810	3	23.67	33.00	PASS
GPRS1900	810	4	21.75	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	24.14	33.00	PASS
EGPRS1900	512	2	24.08	33.00	PASS
EGPRS1900	512	3	22.74	33.00	PASS
EGPRS1900	512	4	20.61	33.00	PASS
EGPRS1900	661	1	23.98	33.00	PASS
EGPRS1900	661	2	23.95	33.00	PASS
EGPRS1900	661	3	22.67	33.00	PASS
EGPRS1900	661	4	20.41	33.00	PASS
EGPRS1900	810	1	22.33	33.00	PASS
EGPRS1900	810	2	22.29	33.00	PASS
EGPRS1900	810	3	20.94	33.00	PASS
EGPRS1900	810	4	18.73	33.00	PASS



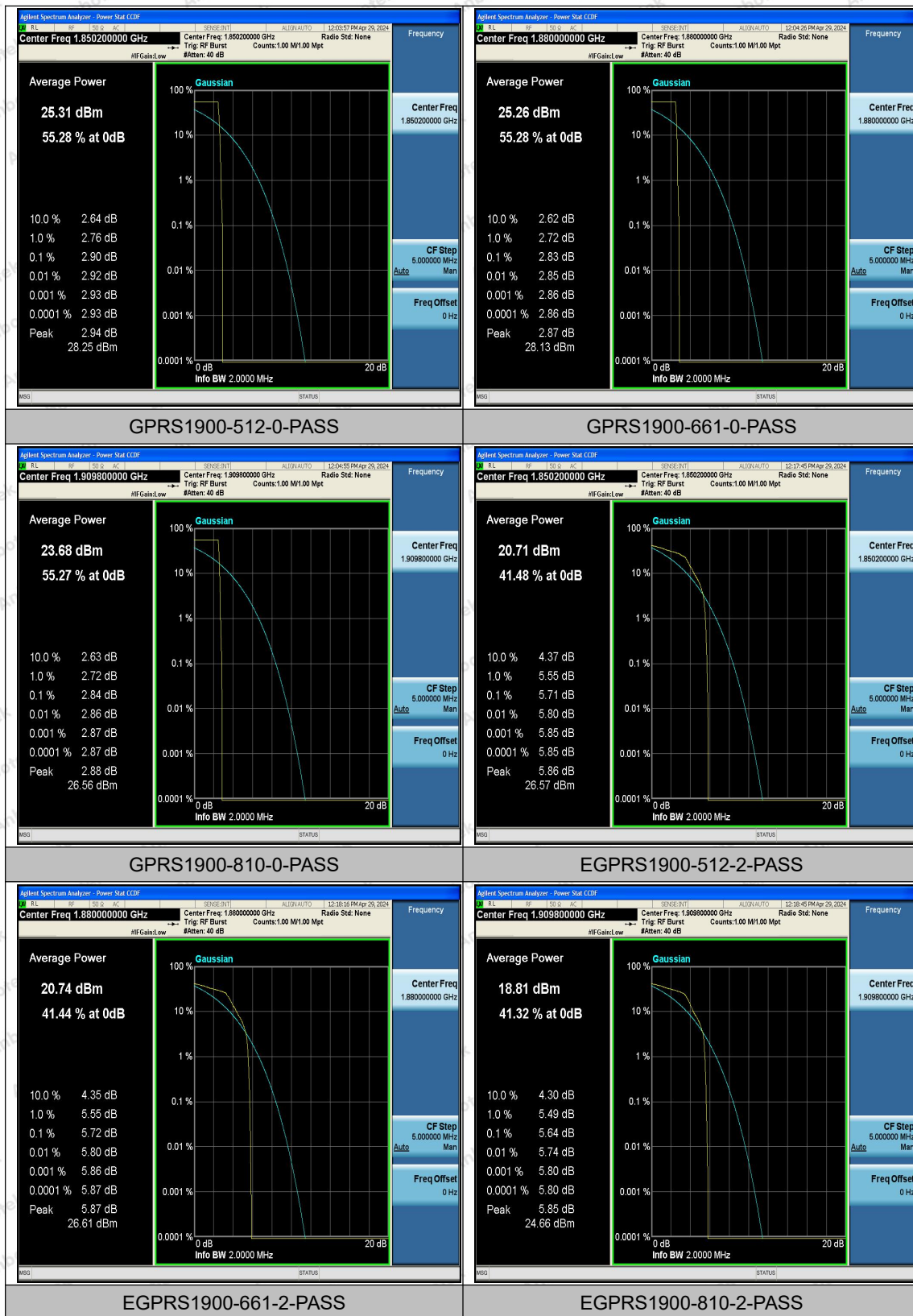
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS1900	512	2.9	13	PASS
GPRS1900	661	2.83	13	PASS
GPRS1900	810	2.84	13	PASS
EGPRS1900	512	5.71	13	PASS
EGPRS1900	661	5.72	13	PASS
EGPRS1900	810	5.64	13	PASS



Test Graphs



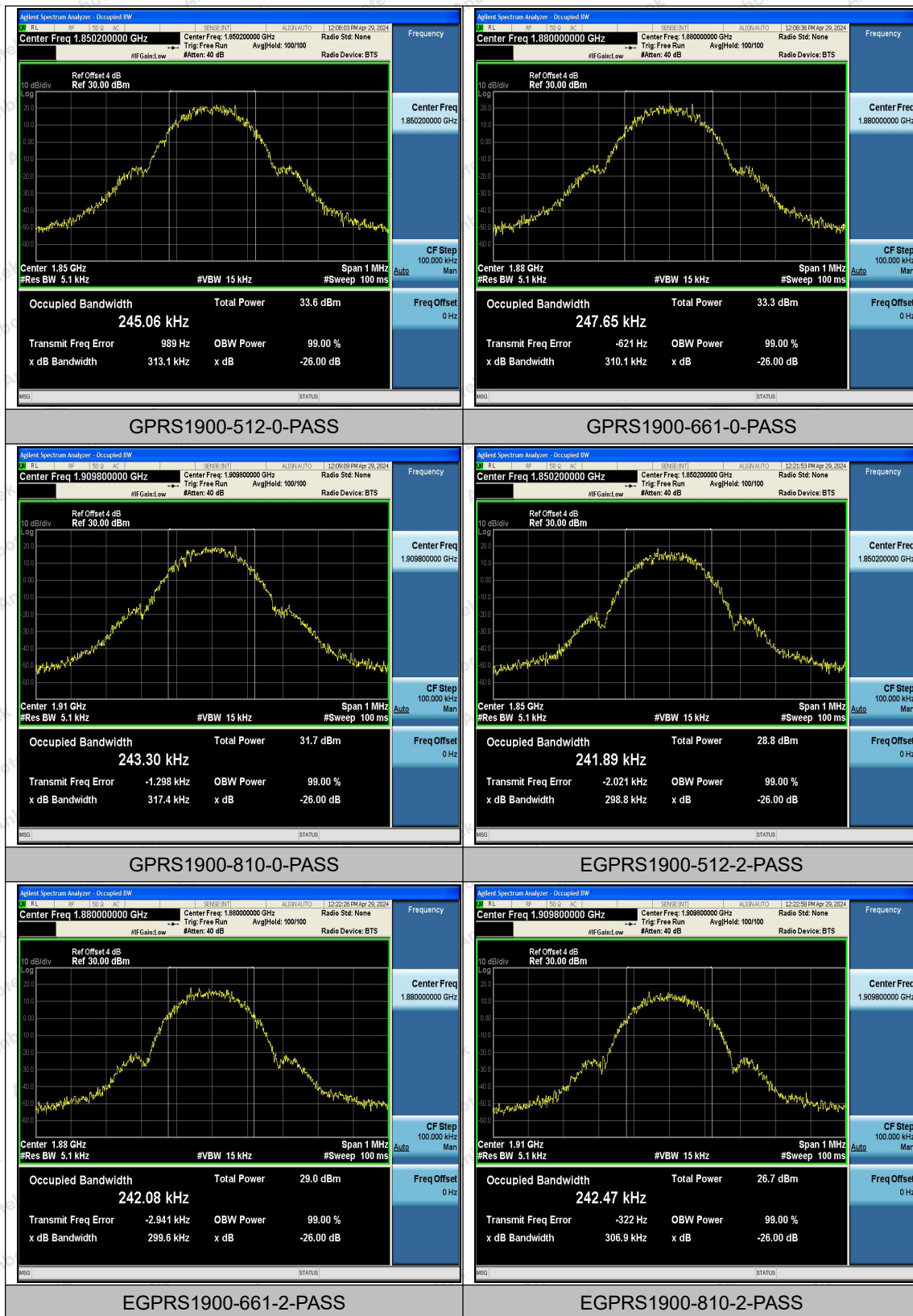
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS1900	512	0.24506	0.3131	---	PASS
GPRS1900	661	0.24765	0.3101	---	PASS
GPRS1900	810	0.24330	0.3174	---	PASS
EGPRS1900	512	0.24189	0.2988	---	PASS
EGPRS1900	661	0.24208	0.2996	---	PASS
EGPRS1900	810	0.24247	0.3069	---	PASS



Test Graphs



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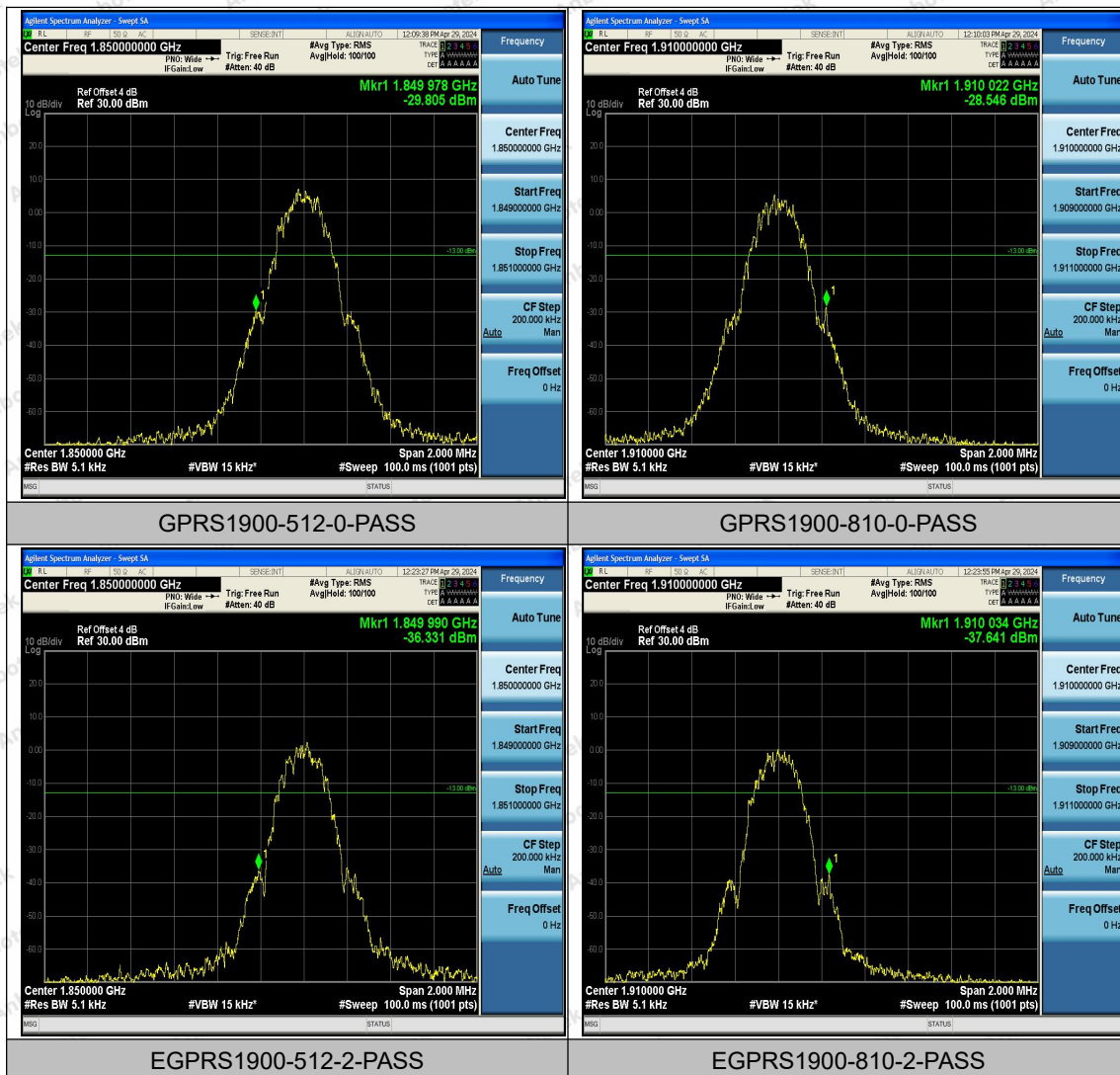
Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1849.98	-29.80	-13	PASS
GPRS1900	810	1910.02	-28.55	-13	PASS
EGPRS1900	512	1849.99	-36.33	-13	PASS
EGPRS1900	810	1910.03	-37.64	-13	PASS



Test Graphs



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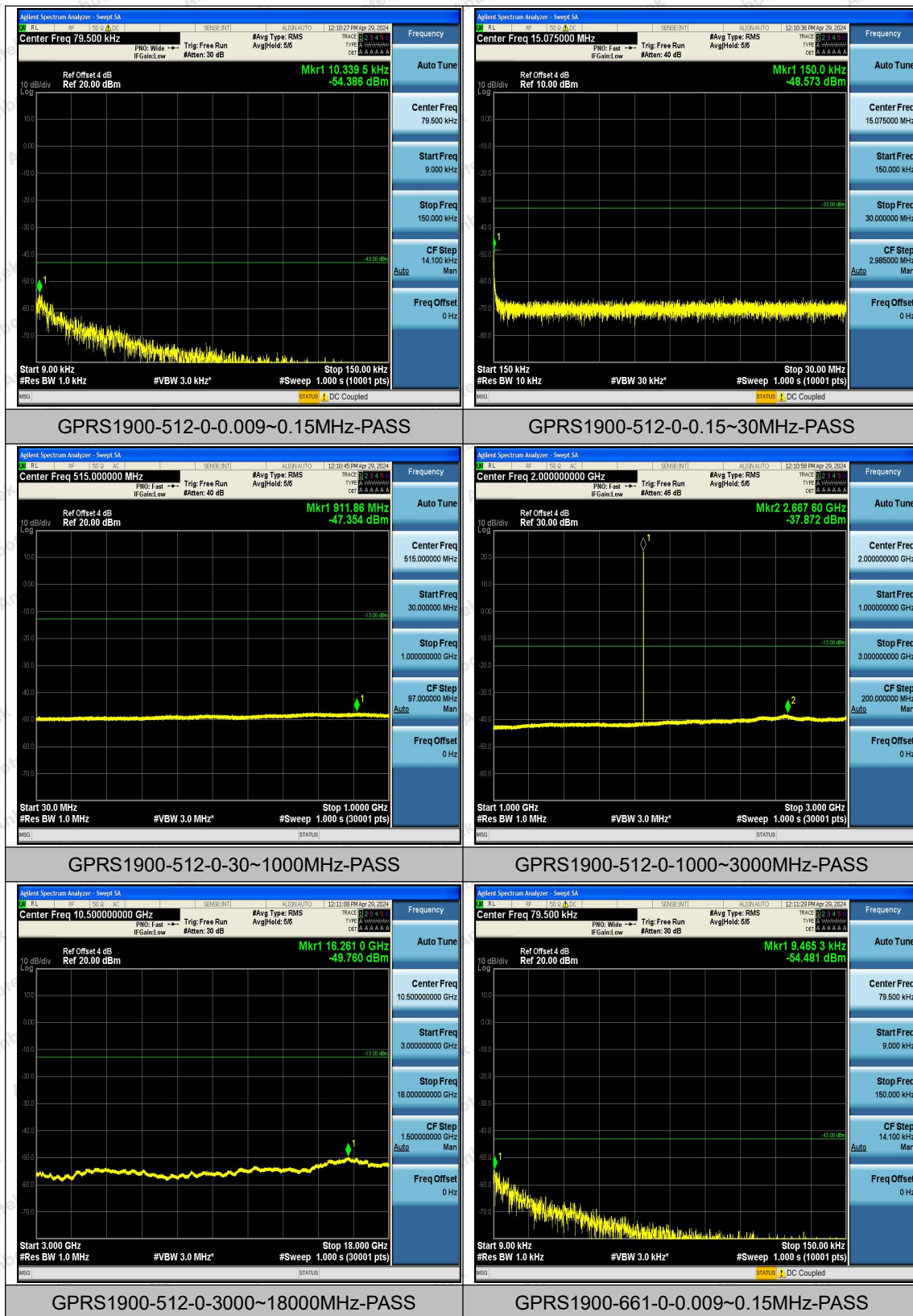
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS1900	512	0.009~0.15MHz	0.01	-54.39	-43	PASS
GPRS1900	512	0.15~30MHz	0.15	-48.57	-33	PASS
GPRS1900	512	30~1000MHz	911.86	-47.35	-13	PASS
GPRS1900	512	1000~3000MHz	2667.6	-37.87	-13	PASS
GPRS1900	512	3000~18000MHz	16261	-49.76	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-54.48	-43	PASS
GPRS1900	661	0.15~30MHz	0.16	-50.98	-33	PASS
GPRS1900	661	30~1000MHz	929.35	-47.3	-13	PASS
GPRS1900	661	1000~3000MHz	2633.8	-38.02	-13	PASS
GPRS1900	661	3000~18000MHz	16252	-49.49	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-54.34	-43	PASS
GPRS1900	810	0.15~30MHz	0.15	-49.2	-33	PASS
GPRS1900	810	30~1000MHz	925.44	-47.17	-13	PASS
GPRS1900	810	1000~3000MHz	2662.07	-38.05	-13	PASS
GPRS1900	810	3000~18000MHz	16213	-49.66	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-53.35	-43	PASS
EGPRS1900	512	0.15~30MHz	0.16	-49.24	-33	PASS
EGPRS1900	512	30~1000MHz	791.74	-47.2	-13	PASS
EGPRS1900	512	1000~3000MHz	2663.4	-37.99	-13	PASS
EGPRS1900	512	3000~18000MHz	16245	-49.64	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-53.49	-43	PASS
EGPRS1900	661	0.15~30MHz	0.15	-50.03	-33	PASS
EGPRS1900	661	30~1000MHz	874.74	-47.36	-13	PASS
EGPRS1900	661	1000~3000MHz	2648.73	-38.03	-13	PASS
EGPRS1900	661	3000~18000MHz	16275	-49.63	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-54.33	-43	PASS
EGPRS1900	810	0.15~30MHz	0.16	-49.48	-33	PASS
EGPRS1900	810	30~1000MHz	815.31	-47.08	-13	PASS
EGPRS1900	810	1000~3000MHz	2637.8	-37.93	-13	PASS
EGPRS1900	810	3000~18000MHz	16292.5	-49.69	-13	PASS



Test Graphs



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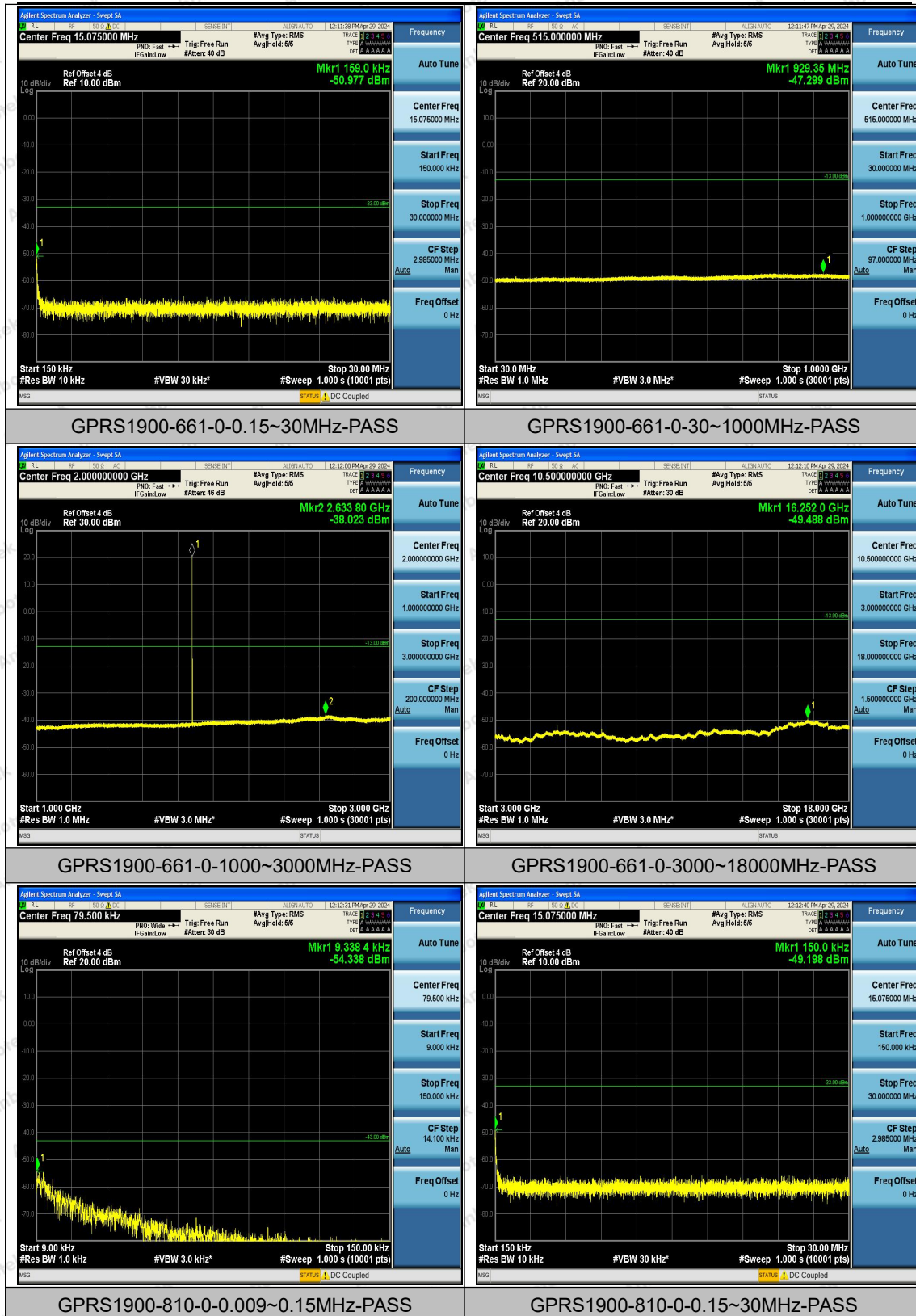


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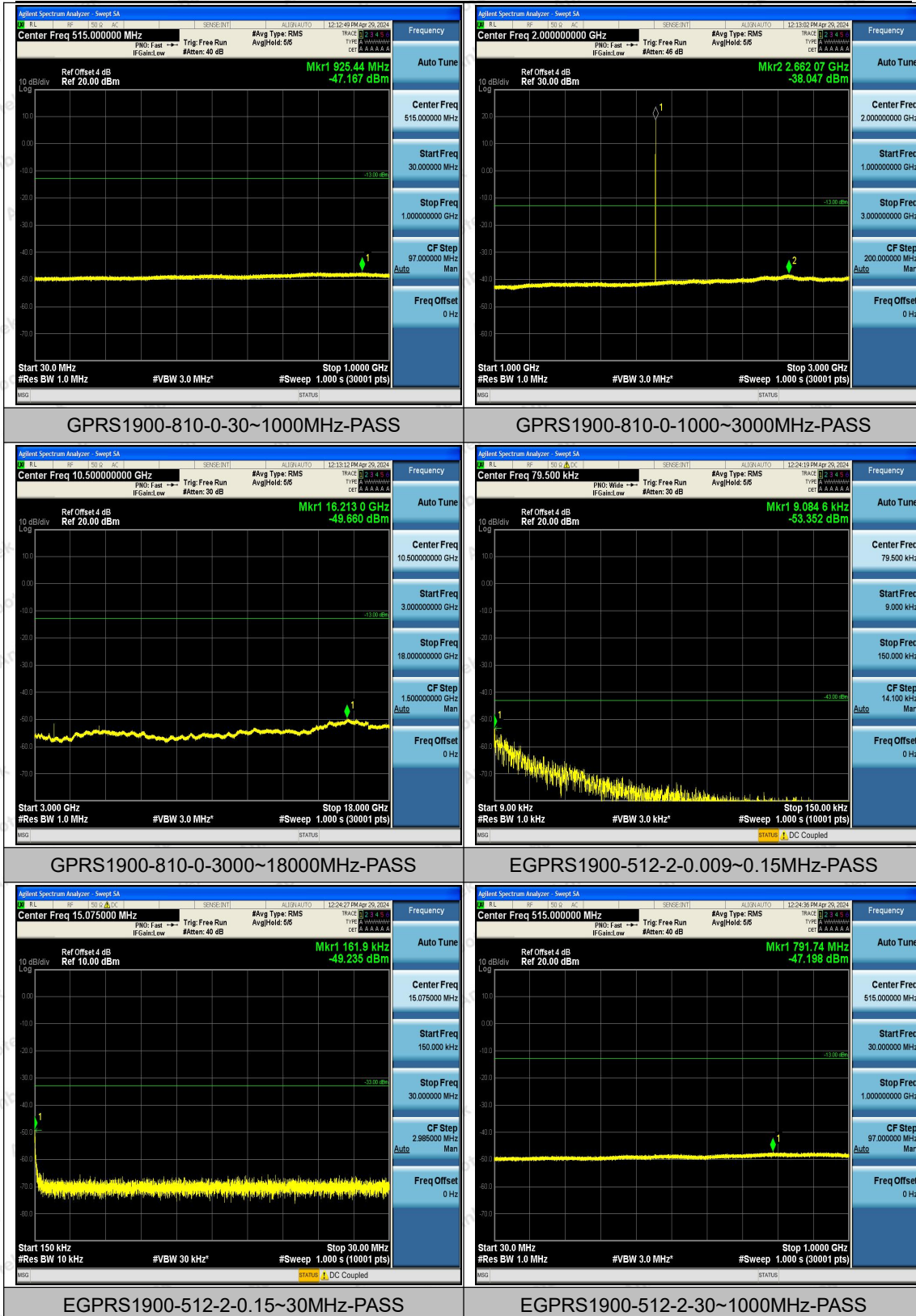


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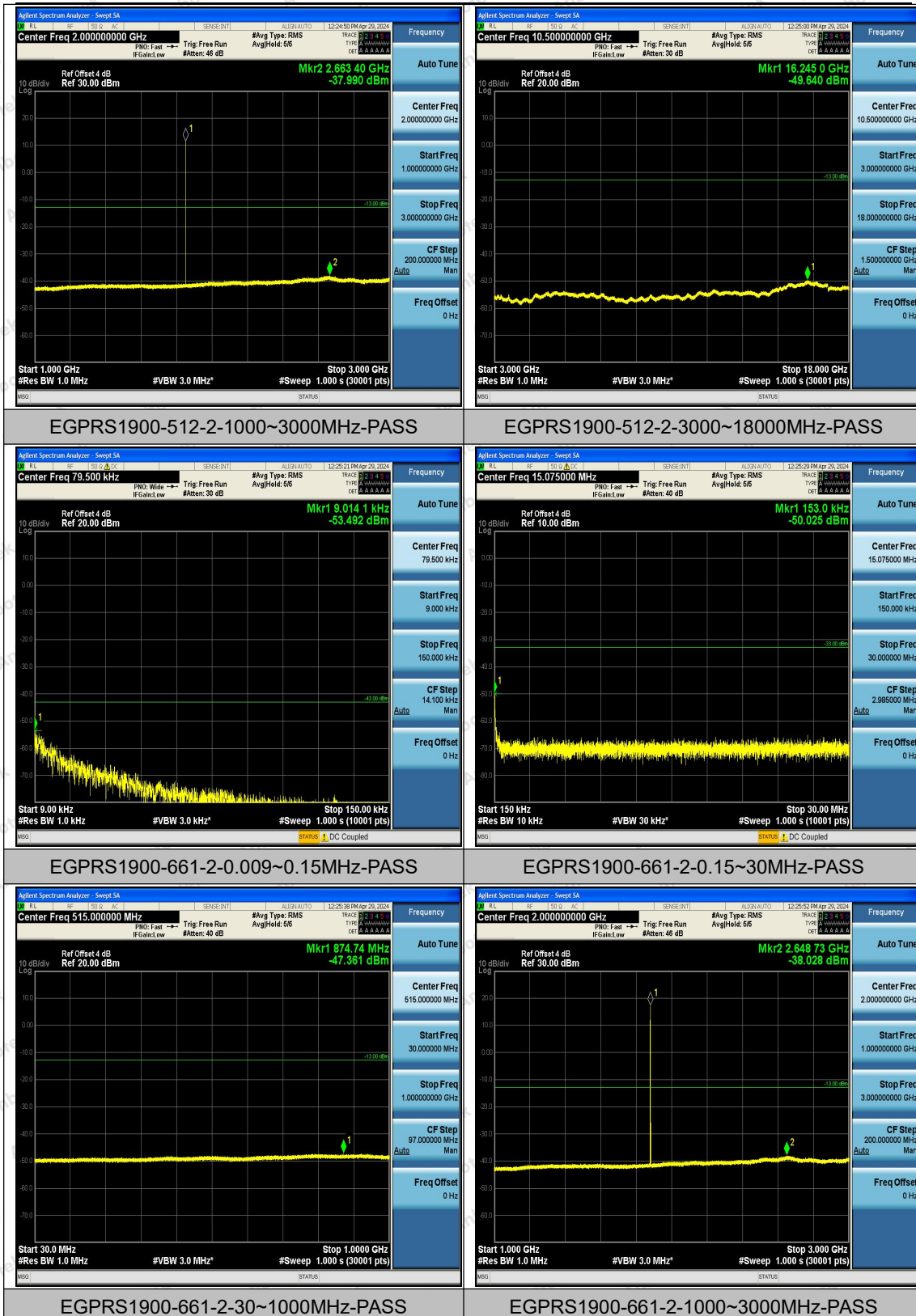
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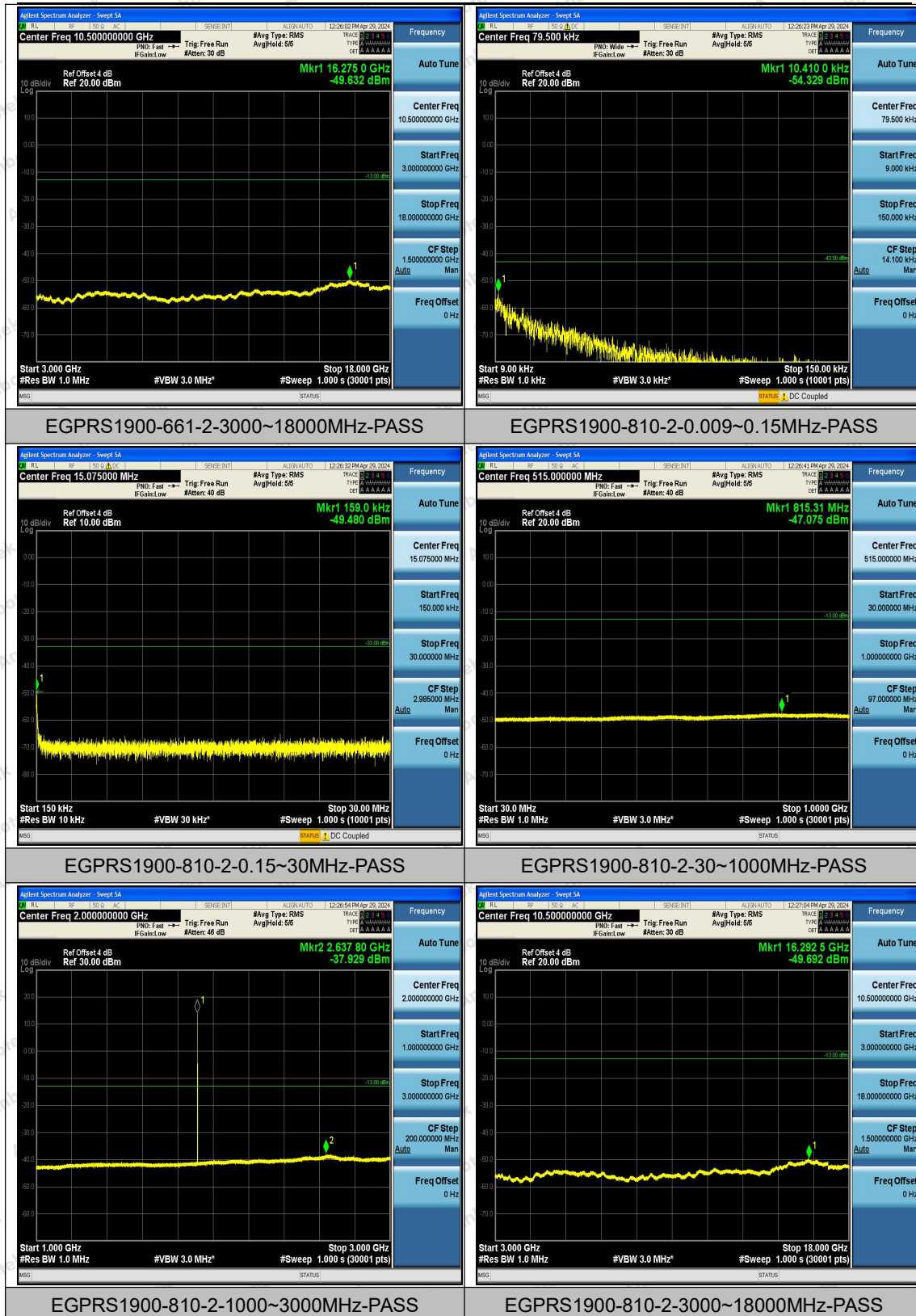


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Appendix F: Frequency stability VS Voltage measurement

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS1900	512	VN	NT	-3.39	-0.001832	±2.5	PASS
GPRS1900	512	VL	NT	2.00	0.001081	±2.5	PASS
GPRS1900	512	VH	NT	0.77	0.000416	±2.5	PASS
GPRS1900	661	VN	NT	5.59	0.002973	±2.5	PASS
GPRS1900	661	VL	NT	2.13	0.001133	±2.5	PASS
GPRS1900	661	VH	NT	3.84	0.002043	±2.5	PASS
GPRS1900	810	VN	NT	8.52	0.004461	±2.5	PASS
GPRS1900	810	VL	NT	10.01	0.005241	±2.5	PASS
GPRS1900	810	VH	NT	11.11	0.005817	±2.5	PASS
EGPRS1900	512	VN	NT	11.66	0.006302	±2.5	PASS
EGPRS1900	512	VL	NT	11.33	0.006124	±2.5	PASS
EGPRS1900	512	VH	NT	4.20	0.002270	±2.5	PASS
EGPRS1900	661	VN	NT	6.23	0.003314	±2.5	PASS
EGPRS1900	661	VL	NT	4.23	0.002250	±2.5	PASS
EGPRS1900	661	VH	NT	3.62	0.001926	±2.5	PASS
EGPRS1900	810	VN	NT	8.33	0.004362	±2.5	PASS
EGPRS1900	810	VL	NT	11.66	0.006105	±2.5	PASS
EGPRS1900	810	VH	NT	7.52	0.003938	±2.5	PASS



Appendix G: Frequency stability VS Temperature measurement

Test Result

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS1900	512	NV	-30	-5.33	-0.002881	±2.5	PASS
GPRS1900	512	NV	-20	15.82	0.008550	±2.5	PASS
GPRS1900	512	NV	-10	11.33	0.006124	±2.5	PASS
GPRS1900	512	NV	0	7.97	0.004308	±2.5	PASS
GPRS1900	512	NV	10	6.01	0.003248	±2.5	PASS
GPRS1900	512	NV	20	0.94	0.000508	±2.5	PASS
GPRS1900	512	NV	30	3.65	0.001973	±2.5	PASS
GPRS1900	512	NV	40	-0.97	-0.000524	±2.5	PASS
GPRS1900	512	NV	50	9.59	0.005183	±2.5	PASS
GPRS1900	661	NV	-30	3.33	0.001771	±2.5	PASS
GPRS1900	661	NV	-20	4.68	0.002489	±2.5	PASS
GPRS1900	661	NV	-10	7.85	0.004176	±2.5	PASS
GPRS1900	661	NV	0	2.29	0.001218	±2.5	PASS
GPRS1900	661	NV	10	4.04	0.002149	±2.5	PASS
GPRS1900	661	NV	20	1.71	0.000910	±2.5	PASS
GPRS1900	661	NV	30	7.23	0.003846	±2.5	PASS
GPRS1900	661	NV	40	5.39	0.002867	±2.5	PASS
GPRS1900	661	NV	50	11.72	0.006234	±2.5	PASS
GPRS1900	810	NV	-30	8.04	0.004210	±2.5	PASS
GPRS1900	810	NV	-20	7.43	0.003890	±2.5	PASS
GPRS1900	810	NV	-10	8.23	0.004309	±2.5	PASS
GPRS1900	810	NV	0	12.30	0.006440	±2.5	PASS
GPRS1900	810	NV	10	7.94	0.004158	±2.5	PASS
GPRS1900	810	NV	20	9.88	0.005173	±2.5	PASS
GPRS1900	810	NV	30	6.72	0.003519	±2.5	PASS
GPRS1900	810	NV	40	7.72	0.004042	±2.5	PASS
GPRS1900	810	NV	50	6.07	0.003178	±2.5	PASS
EGPRS1900	512	NV	-30	17.31	0.009356	±2.5	PASS
EGPRS1900	512	NV	-20	5.59	0.003021	±2.5	PASS
EGPRS1900	512	NV	-10	12.53	0.006772	±2.5	PASS
EGPRS1900	512	NV	0	-6.65	-0.003594	±2.5	PASS
EGPRS1900	512	NV	10	1.16	0.000627	±2.5	PASS
EGPRS1900	512	NV	20	1.58	0.000854	±2.5	PASS

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EGPRS1900	512	NV	30	2.03	0.001097	±2.5	PASS
EGPRS1900	512	NV	40	3.45	0.001865	±2.5	PASS
EGPRS1900	512	NV	50	7.10	0.003837	±2.5	PASS
EGPRS1900	661	NV	-30	10.14	0.005394	±2.5	PASS
EGPRS1900	661	NV	-20	4.68	0.002489	±2.5	PASS
EGPRS1900	661	NV	-10	4.49	0.002388	±2.5	PASS
EGPRS1900	661	NV	0	-0.61	-0.000324	±2.5	PASS
EGPRS1900	661	NV	10	2.45	0.001303	±2.5	PASS
EGPRS1900	661	NV	20	-3.39	-0.001803	±2.5	PASS
EGPRS1900	661	NV	30	1.55	0.000824	±2.5	PASS
EGPRS1900	661	NV	40	1.13	0.000601	±2.5	PASS
EGPRS1900	661	NV	50	-3.20	-0.001702	±2.5	PASS
EGPRS1900	810	NV	-30	14.98	0.007844	±2.5	PASS
EGPRS1900	810	NV	-20	13.62	0.007132	±2.5	PASS
EGPRS1900	810	NV	-10	22.66	0.011865	±2.5	PASS
EGPRS1900	810	NV	0	12.46	0.006524	±2.5	PASS
EGPRS1900	810	NV	10	16.08	0.008420	±2.5	PASS
EGPRS1900	810	NV	20	16.30	0.008535	±2.5	PASS
EGPRS1900	810	NV	30	6.78	0.003550	±2.5	PASS
EGPRS1900	810	NV	40	10.82	0.005666	±2.5	PASS
EGPRS1900	810	NV	50	13.08	0.006849	±2.5	PASS

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