

Appendix Test Data

Report No.:	182512C400497105	Test Sample No.:	1-2-2
Start Test Date:	2024.7.19	Finish Test Date:	2024.8.13
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
GSM850	128	30.79	38.45	PASS
GSM850	190	30.82	38.45	PASS
GSM850	251	31.44	38.45	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	30.84	38.45	PASS
GPRS850	128	2	29.71	38.45	PASS
GPRS850	128	3	28.41	38.45	PASS
GPRS850	128	4	27.01	38.45	PASS
GPRS850	190	1	30.81	38.45	PASS
GPRS850	190	2	29.72	38.45	PASS
GPRS850	190	3	28.42	38.45	PASS
GPRS850	190	4	27.03	38.45	PASS
GPRS850	251	1	31.44	38.45	PASS
GPRS850	251	2	30.37	38.45	PASS
GPRS850	251	3	29.03	38.45	PASS
GPRS850	251	4	27.64	38.45	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	24.79	38.45	PASS
EGPRS850	128	2	23.46	38.45	PASS
EGPRS850	128	3	22.11	38.45	PASS
EGPRS850	128	4	20.63	38.45	PASS

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EGPRS85 0	190	1	24.76	38.45	PASS
EGPRS85 0	190	2	23.46	38.45	PASS
EGPRS85 0	190	3	22.05	38.45	PASS
EGPRS85 0	190	4	20.64	38.45	PASS
EGPRS85 0	251	1	25.18	38.45	PASS
EGPRS85 0	251	2	23.88	38.45	PASS
EGPRS85 0	251	3	22.54	38.45	PASS
EGPRS85 0	251	4	21.09	38.45	PASS



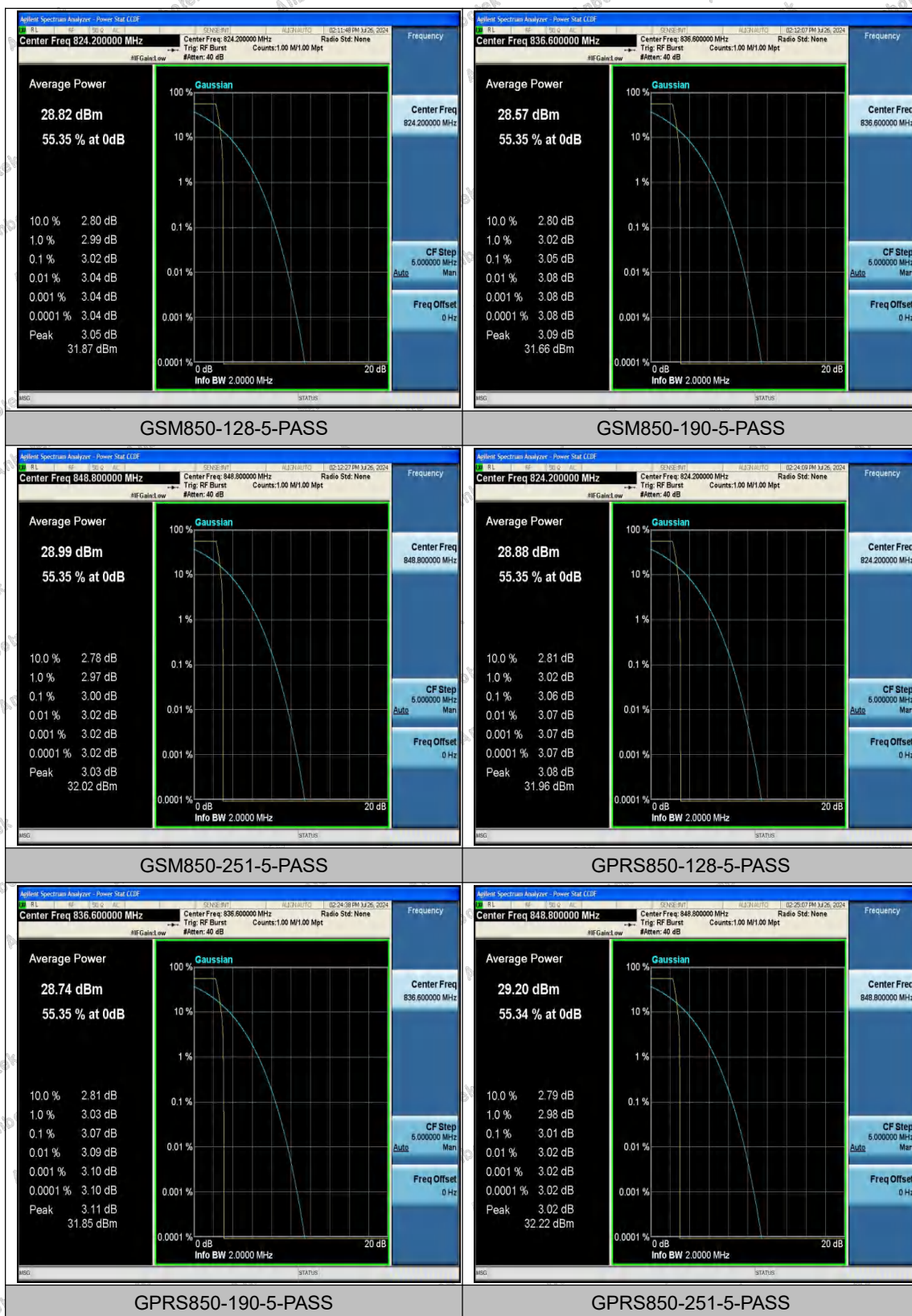
Appendix B: Peak-to-Average Ratio(CCDF)

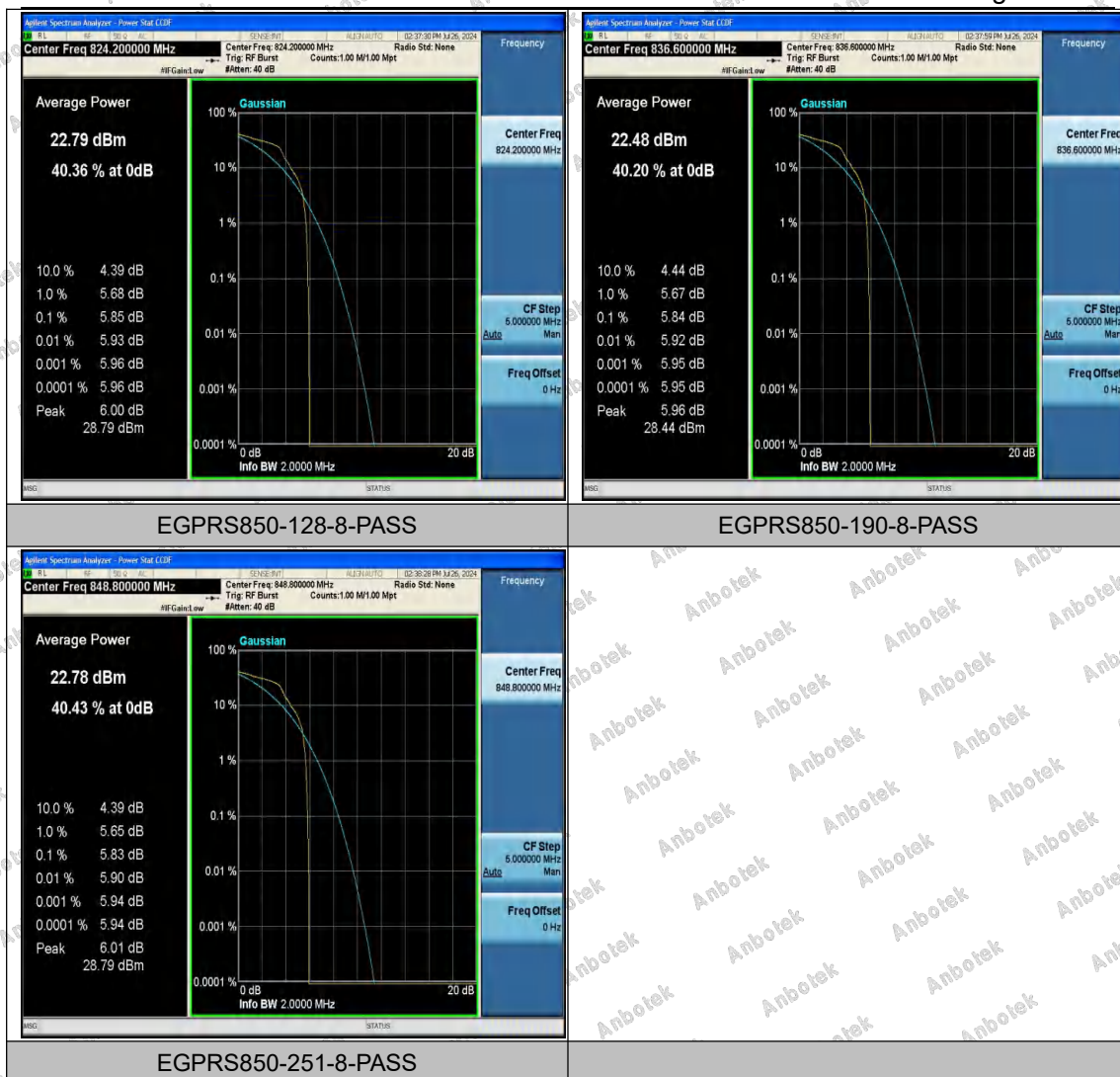
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	3.02	13	PASS
GSM850	190	3.05	13	PASS
GSM850	251	3	13	PASS
GPRS850	128	3.06	13	PASS
GPRS850	190	3.07	13	PASS
GPRS850	251	3.01	13	PASS
EGPRS850	128	5.85	13	PASS
EGPRS850	190	5.84	13	PASS
EGPRS850	251	5.83	13	PASS



Test Graphs





EGPRS850-128-8-PASS

EGPRS850-190-8-PASS

EGPRS850-251-8-PASS



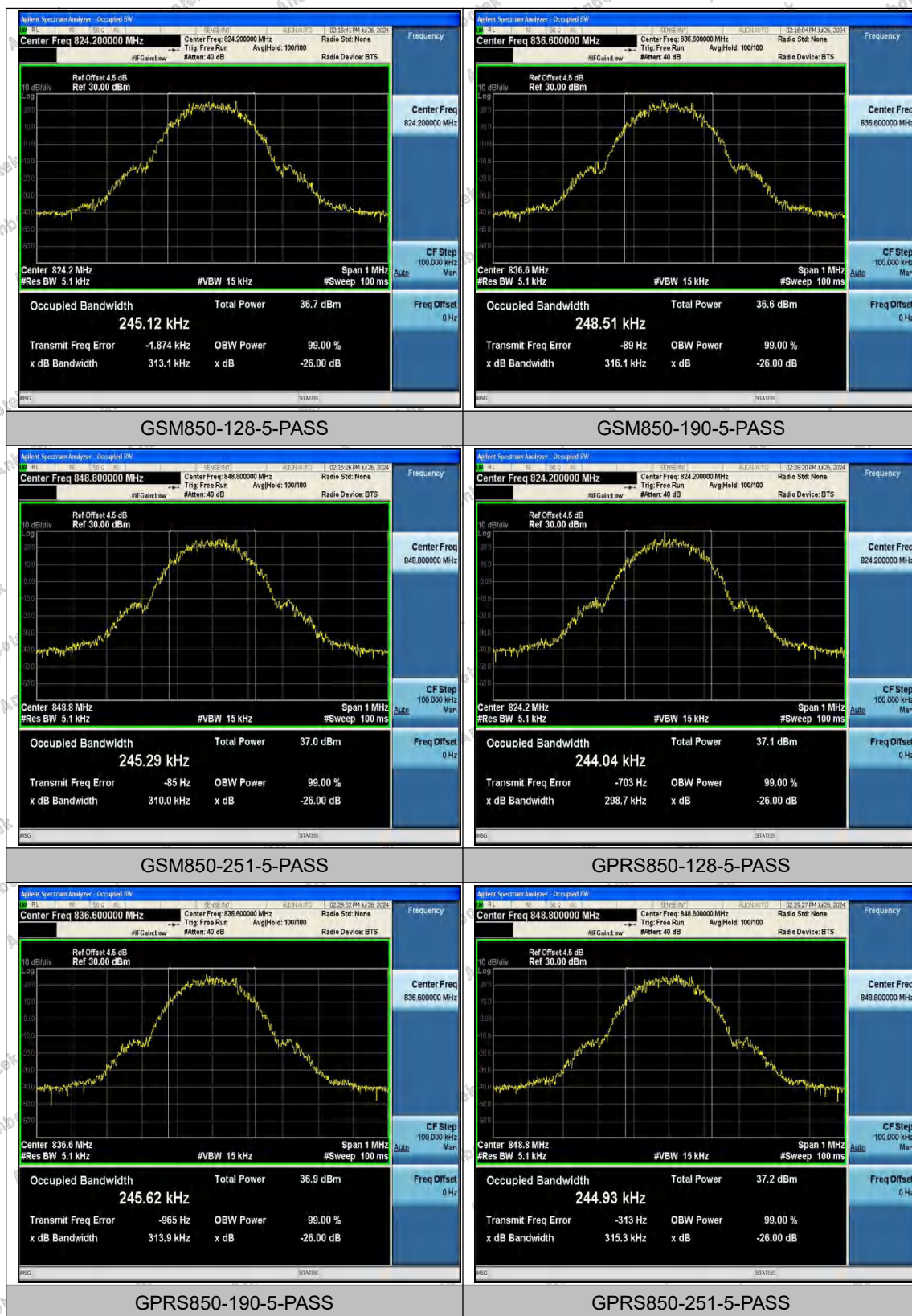
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24512	0.3131	---	PASS
GSM850	190	0.24851	0.3161	---	PASS
GSM850	251	0.24529	0.3100	---	PASS
GPRS850	128	0.24404	0.2987	---	PASS
GPRS850	190	0.24562	0.3139	---	PASS
GPRS850	251	0.24493	0.3153	---	PASS
EGPRS850	128	0.24706	0.3117	---	PASS
EGPRS850	190	0.24432	0.3082	---	PASS
EGPRS850	251	0.24429	0.2982	---	PASS



Test Graphs



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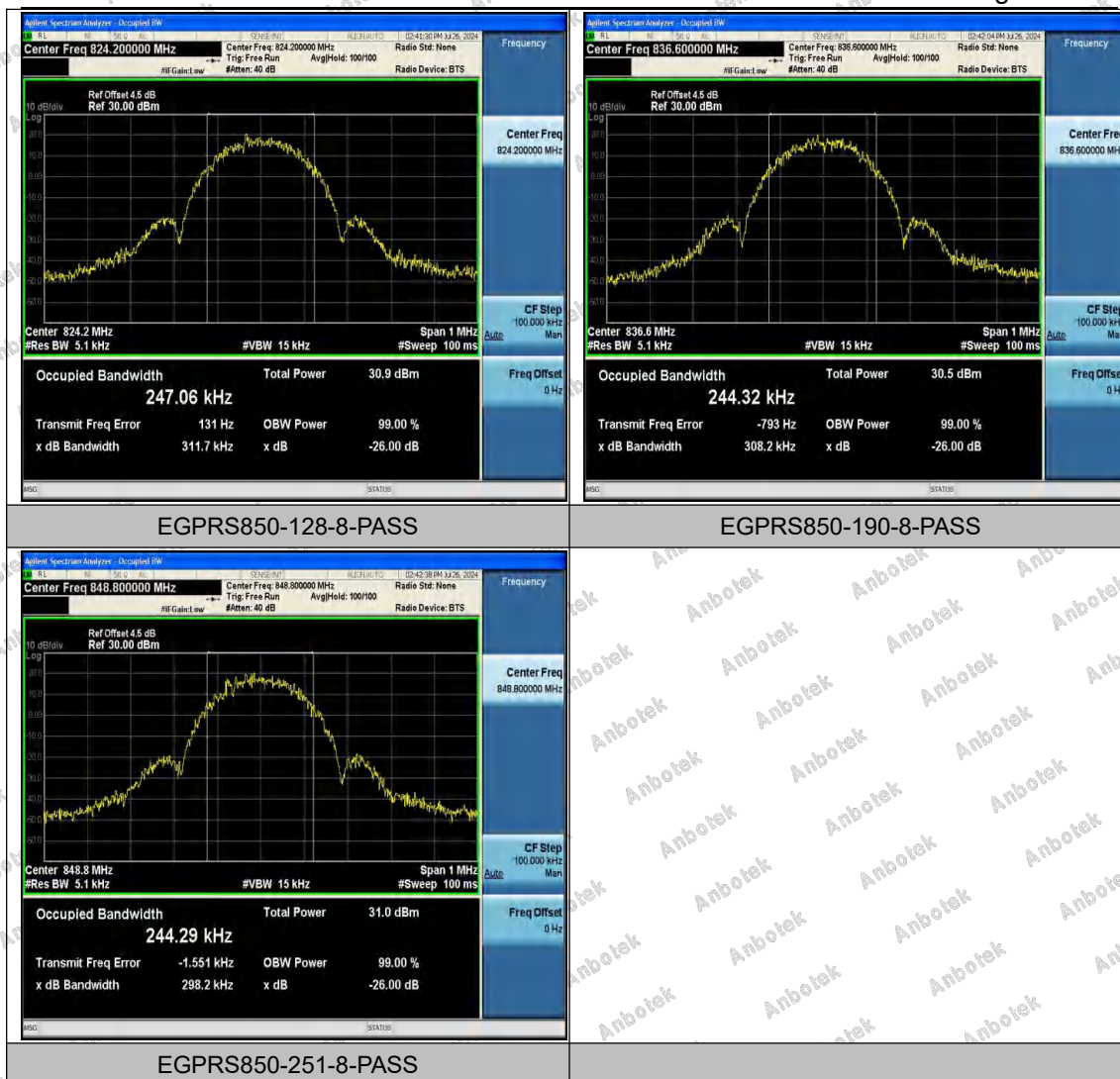
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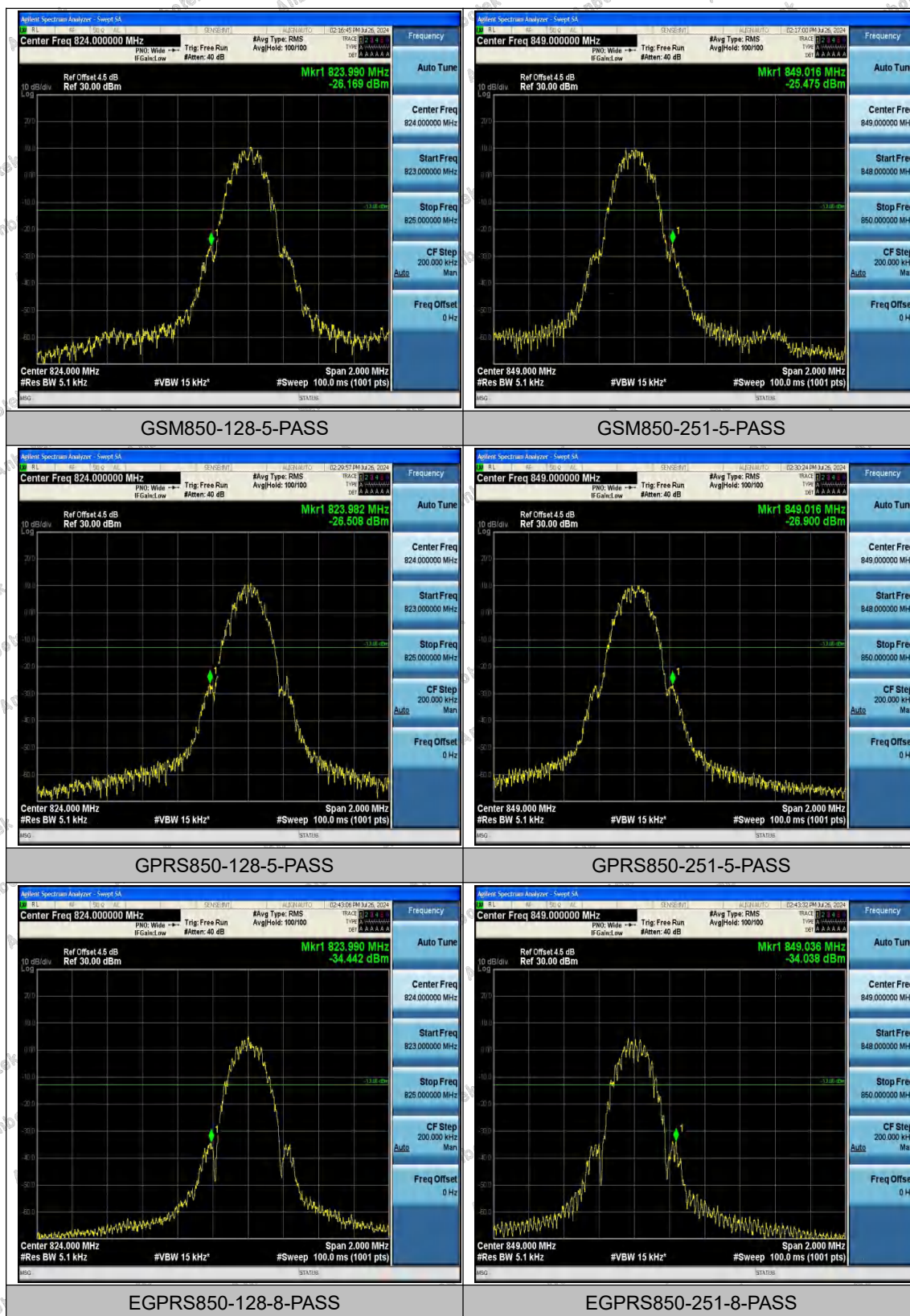
Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.99	-26.17	-13	PASS
GSM850	251	849.02	-25.47	-13	PASS
GPRS850	128	823.98	-26.51	-13	PASS
GPRS850	251	849.02	-26.90	-13	PASS
EGPRS850	128	823.99	-34.44	-13	PASS
EGPRS850	251	849.04	-34.04	-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
GSM850	128	0.009~0.15MHz	0.01	-51.16	-33	PASS
GSM850	128	0.15~30MHz	0.17	-47.5	-23	PASS
GSM850	128	30~1000MHz	934.49	-48.88	-13	PASS
GSM850	128	1000~10000MHz	1648.3	-41.45	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-50.7	-33	PASS
GSM850	190	0.15~30MHz	0.16	-46.3	-23	PASS
GSM850	190	30~1000MHz	705.12	-49.35	-13	PASS
GSM850	190	1000~10000MHz	2509.9	-32.4	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-49.9	-33	PASS
GSM850	251	0.15~30MHz	0.16	-46.71	-23	PASS
GSM850	251	30~1000MHz	501.45	-49.14	-13	PASS
GSM850	251	1000~10000MHz	2546.2	-30.36	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-47.23	-33	PASS
GPRS850	128	0.15~30MHz	0.15	-46.84	-23	PASS
GPRS850	128	30~1000MHz	928.67	-49	-13	PASS
GPRS850	128	1000~10000MHz	1647.7	-49.8	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-49.31	-33	PASS
GPRS850	190	0.15~30MHz	0.16	-46.9	-23	PASS
GPRS850	190	30~1000MHz	683	-49.12	-13	PASS
GPRS850	190	1000~10000MHz	5511.7	-52.9	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-49.58	-33	PASS
GPRS850	251	0.15~30MHz	0.16	-48.31	-23	PASS
GPRS850	251	30~1000MHz	747.64	-49.05	-13	PASS
GPRS850	251	1000~10000MHz	2547.1	-34.3	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-48.46	-33	PASS
EGPRS850	128	0.15~30MHz	0.16	-47.87	-23	PASS
EGPRS850	128	30~1000MHz	478.69	-49.22	-13	PASS
EGPRS850	128	1000~10000MHz	5916.7	-53.14	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-49.47	-33	PASS
EGPRS850	190	0.15~30MHz	0.15	-46.24	-23	PASS
EGPRS850	190	30~1000MHz	979.57	-49.13	-13	PASS
EGPRS850	190	1000~10000MHz	5926.3	-53.04	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-47.91	-33	PASS
EGPRS850	251	0.15~30MHz	0.16	-47.52	-23	PASS
EGPRS850	251	30~1000MHz	972.29	-48.91	-13	PASS
EGPRS850	251	1000~10000MHz	5590.9	-53.11	-13	PASS

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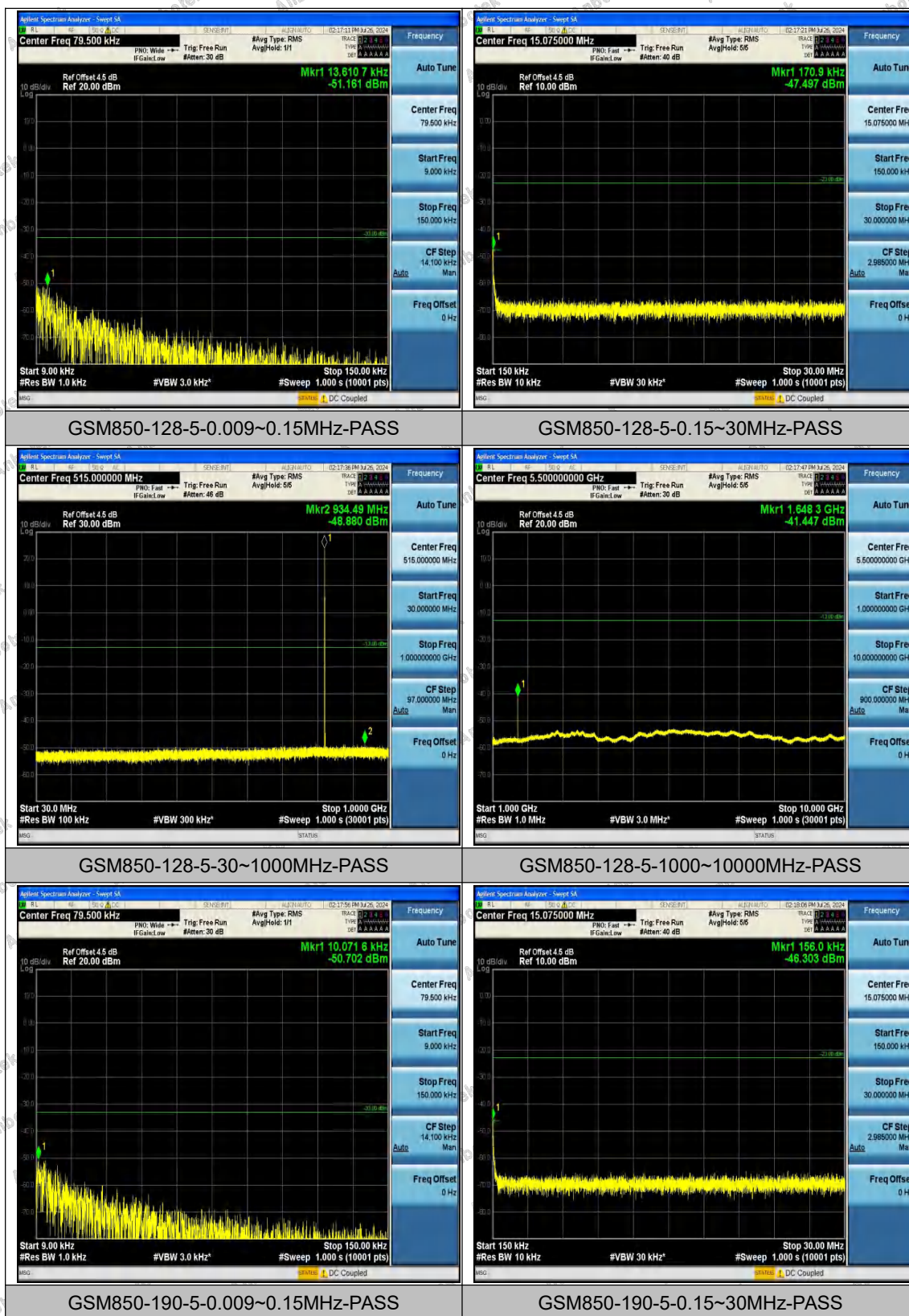


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Test Graphs



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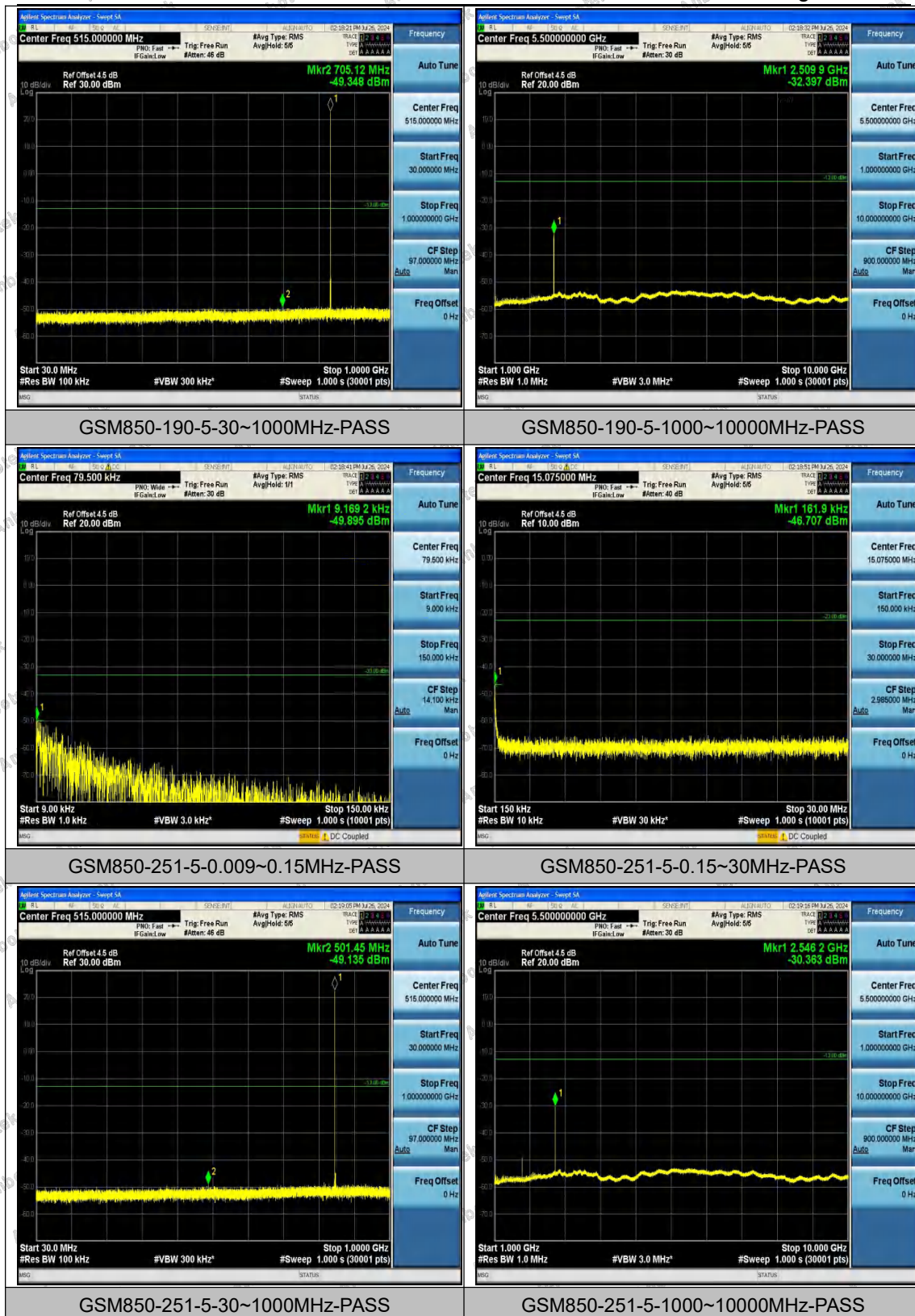


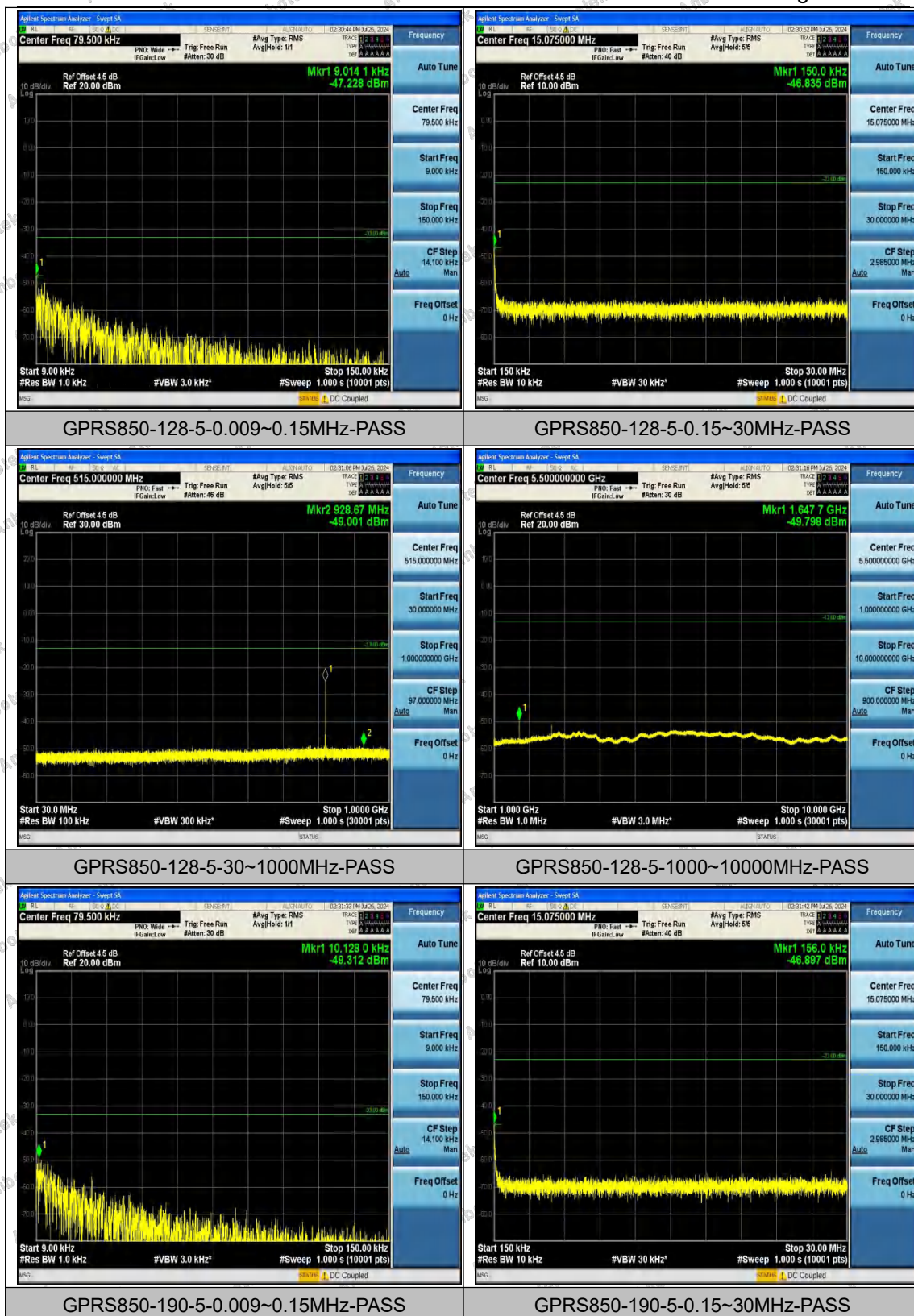
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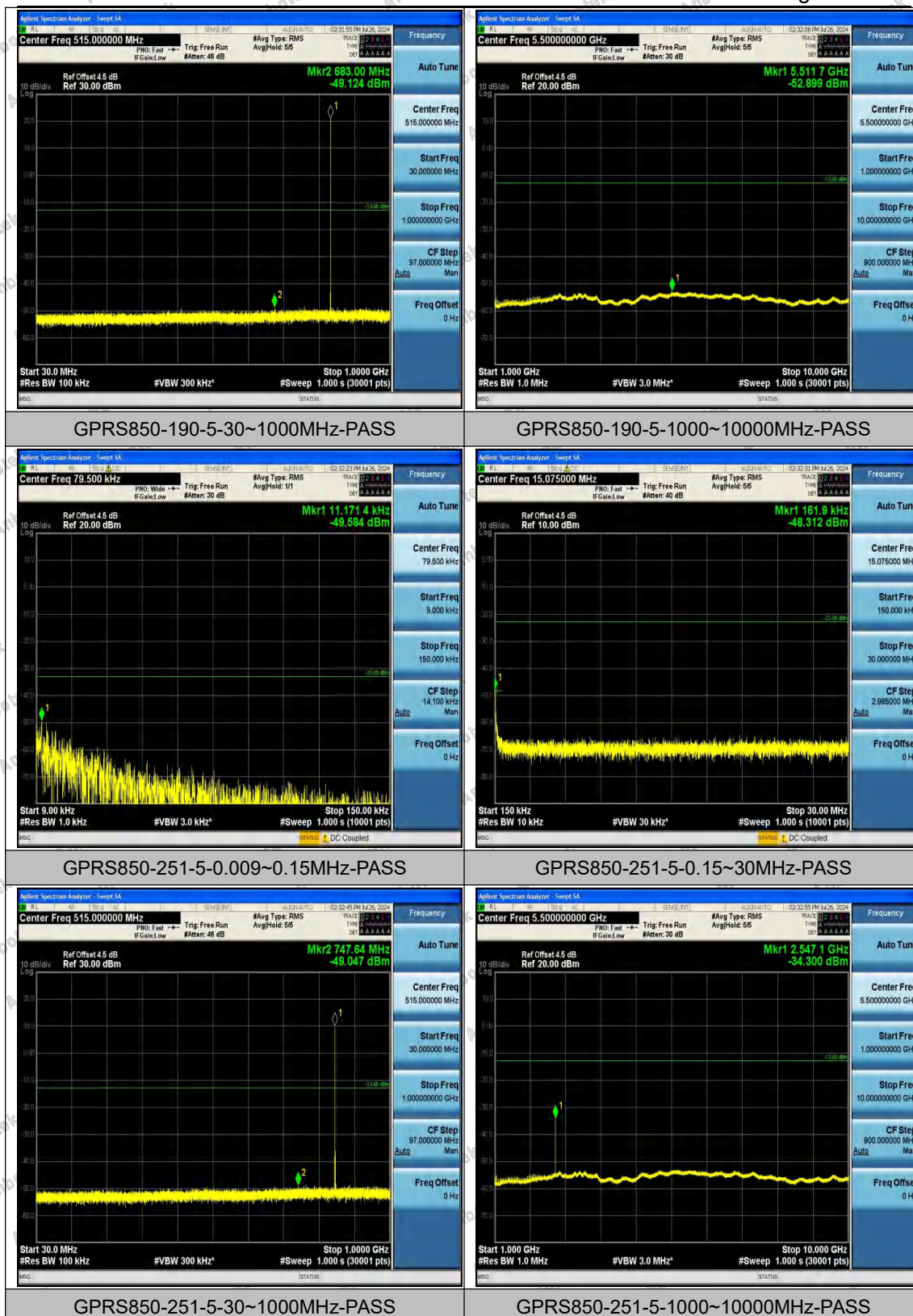
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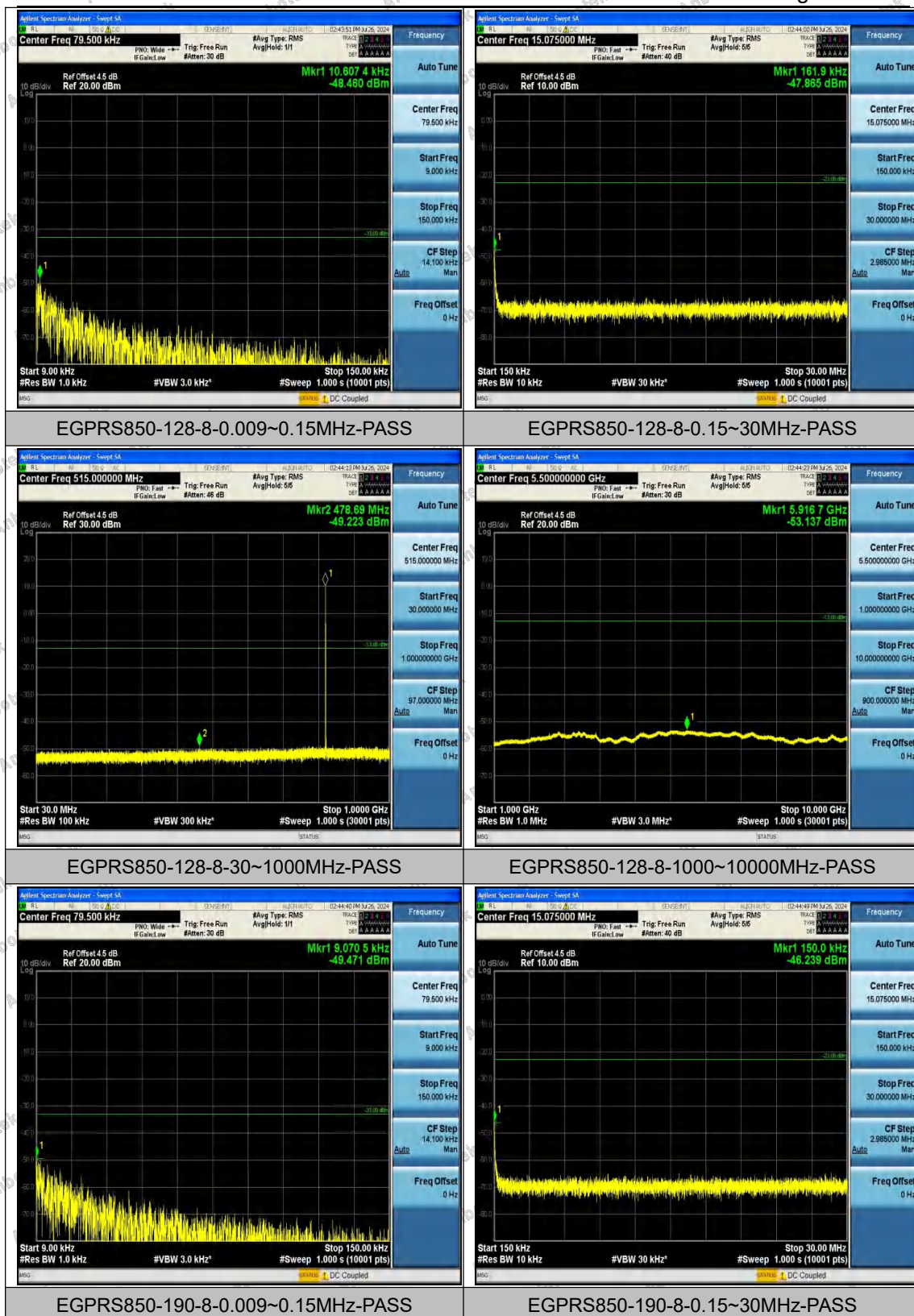
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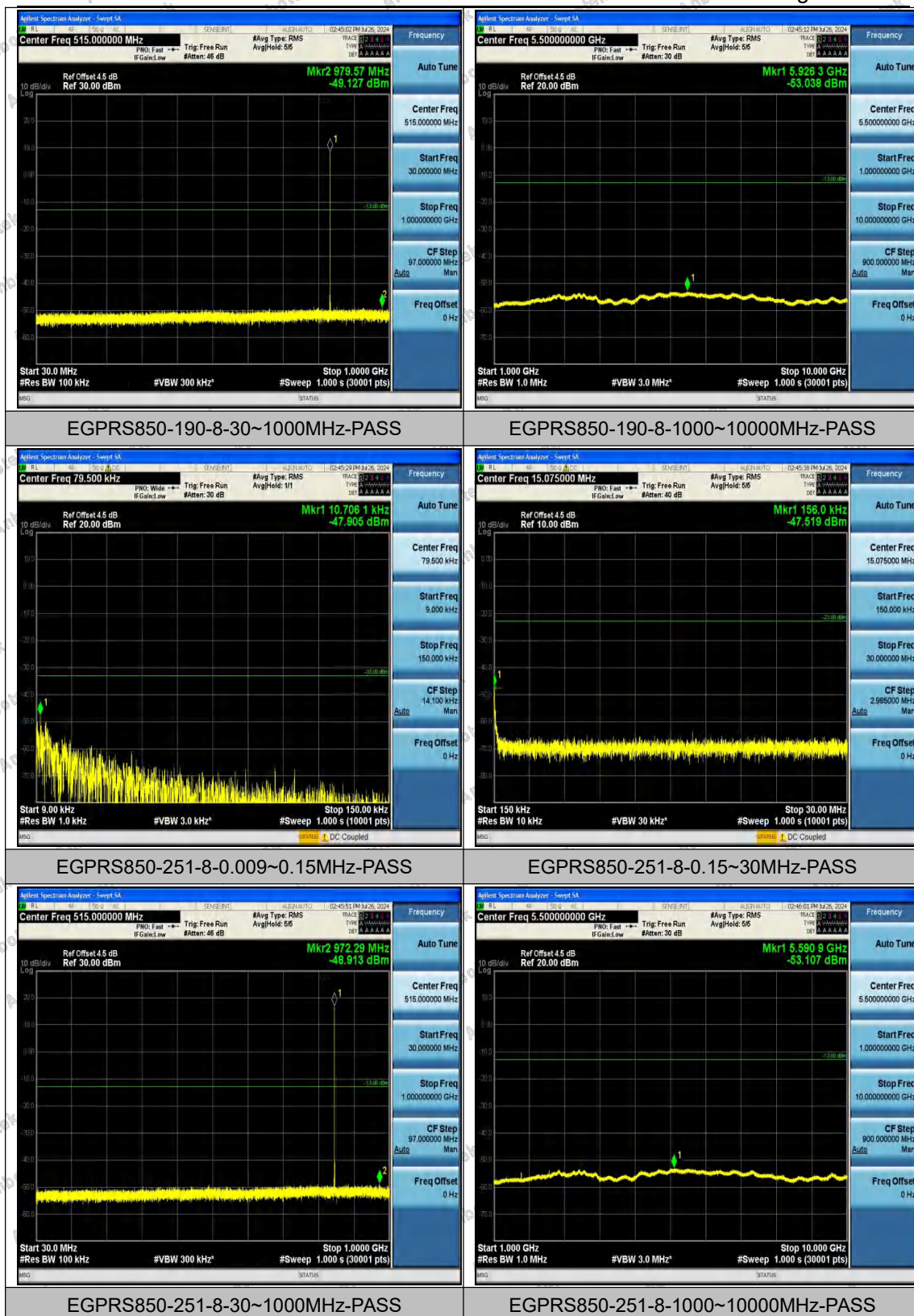












Appendix F: Frequency stability VS Voltage measurement

Test Result

Band	Channel	Voltage					
		Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	23.96	0.029071	±2.5	PASS
GSM850	128	VL	NT	23.57	0.028597	±2.5	PASS
GSM850	128	VH	NT	21.50	0.026086	±2.5	PASS
GSM850	190	VN	NT	23.67	0.028293	±2.5	PASS
GSM850	190	VL	NT	24.09	0.028795	±2.5	PASS
GSM850	190	VH	NT	24.18	0.028903	±2.5	PASS
GSM850	251	VN	NT	32.38	0.038148	±2.5	PASS
GSM850	251	VL	NT	30.80	0.036287	±2.5	PASS
GSM850	251	VH	NT	30.70	0.036169	±2.5	PASS
GPRS850	128	VN	NT	30.74	0.037297	±2.5	PASS
GPRS850	128	VL	NT	28.93	0.035101	±2.5	PASS
GPRS850	128	VH	NT	28.70	0.034822	±2.5	PASS
GPRS850	190	VN	NT	30.48	0.036433	±2.5	PASS
GPRS850	190	VL	NT	32.25	0.038549	±2.5	PASS
GPRS850	190	VH	NT	33.42	0.039947	±2.5	PASS
GPRS850	251	VN	NT	33.61	0.039597	±2.5	PASS
GPRS850	251	VL	NT	34.35	0.040469	±2.5	PASS
GPRS850	251	VH	NT	33.90	0.039939	±2.5	PASS
EGPRS850	128	VN	NT	36.68	0.044504	±2.5	PASS
EGPRS850	128	VL	NT	36.77	0.044613	±2.5	PASS
EGPRS850	128	VH	NT	40.23	0.048811	±2.5	PASS
EGPRS850	190	VN	NT	38.10	0.045541	±2.5	PASS
EGPRS850	190	VL	NT	42.62	0.050944	±2.5	PASS
EGPRS850	190	VH	NT	43.20	0.051638	±2.5	PASS
EGPRS850	251	VN	NT	40.29	0.047467	±2.5	PASS
EGPRS850	251	VL	NT	36.10	0.042531	±2.5	PASS
EGPRS850	251	VH	NT	33.25	0.039173	±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
GSM850	128	NV	-30	23.89	0.028986	±2.5	PASS
GSM850	128	NV	-20	24.80	0.030090	±2.5	PASS
GSM850	128	NV	-10	24.96	0.030284	±2.5	PASS
GSM850	128	NV	0	22.57	0.027384	±2.5	PASS
GSM850	128	NV	10	18.85	0.022871	±2.5	PASS
GSM850	128	NV	20	20.89	0.025346	±2.5	PASS
GSM850	128	NV	30	21.15	0.025661	±2.5	PASS
GSM850	128	NV	40	21.57	0.026171	±2.5	PASS
GSM850	128	NV	50	21.66	0.026280	±2.5	PASS
GSM850	190	NV	-30	24.86	0.029716	±2.5	PASS
GSM850	190	NV	-20	26.18	0.031293	±2.5	PASS
GSM850	190	NV	-10	22.96	0.027444	±2.5	PASS
GSM850	190	NV	0	15.01	0.017942	±2.5	PASS
GSM850	190	NV	10	19.02	0.022735	±2.5	PASS
GSM850	190	NV	20	22.96	0.027444	±2.5	PASS
GSM850	190	NV	30	20.53	0.024540	±2.5	PASS
GSM850	190	NV	40	21.05	0.025161	±2.5	PASS
GSM850	190	NV	50	19.53	0.023344	±2.5	PASS
GSM850	251	NV	-30	29.19	0.034390	±2.5	PASS
GSM850	251	NV	-20	27.67	0.032599	±2.5	PASS
GSM850	251	NV	-10	30.87	0.036369	±2.5	PASS
GSM850	251	NV	0	30.99	0.036510	±2.5	PASS
GSM850	251	NV	10	31.48	0.037088	±2.5	PASS
GSM850	251	NV	20	28.73	0.033848	±2.5	PASS
GSM850	251	NV	30	27.83	0.032787	±2.5	PASS
GSM850	251	NV	40	32.16	0.037889	±2.5	PASS
GSM850	251	NV	50	30.64	0.036098	±2.5	PASS
GPRS850	128	NV	-30	25.28	0.030672	±2.5	PASS
GPRS850	128	NV	-20	27.64	0.033536	±2.5	PASS
GPRS850	128	NV	-10	26.22	0.031813	±2.5	PASS
GPRS850	128	NV	0	25.70	0.031182	±2.5	PASS
GPRS850	128	NV	10	25.34	0.030745	±2.5	PASS

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GPRS850	128	NV	20	24.99	0.030320	±2.5	PASS
GPRS850	128	NV	30	24.02	0.029143	±2.5	PASS
GPRS850	128	NV	40	26.12	0.031691	±2.5	PASS
GPRS850	128	NV	50	26.83	0.032553	±2.5	PASS
GPRS850	190	NV	-30	28.90	0.034545	±2.5	PASS
GPRS850	190	NV	-20	30.74	0.036744	±2.5	PASS
GPRS850	190	NV	-10	31.74	0.037939	±2.5	PASS
GPRS850	190	NV	0	32.51	0.038860	±2.5	PASS
GPRS850	190	NV	10	30.22	0.036122	±2.5	PASS
GPRS850	190	NV	20	27.99	0.033457	±2.5	PASS
GPRS850	190	NV	30	30.35	0.036278	±2.5	PASS
GPRS850	190	NV	40	28.61	0.034198	±2.5	PASS
GPRS850	190	NV	50	29.22	0.034927	±2.5	PASS
GPRS850	251	NV	-30	33.90	0.039939	±2.5	PASS
GPRS850	251	NV	-20	36.74	0.043285	±2.5	PASS
GPRS850	251	NV	-10	34.68	0.040858	±2.5	PASS
GPRS850	251	NV	0	34.16	0.040245	±2.5	PASS
GPRS850	251	NV	10	36.81	0.043367	±2.5	PASS
GPRS850	251	NV	20	33.84	0.039868	±2.5	PASS
GPRS850	251	NV	30	31.12	0.036664	±2.5	PASS
GPRS850	251	NV	40	29.15	0.034343	±2.5	PASS
GPRS850	251	NV	50	31.06	0.036593	±2.5	PASS
EGPRS850	128	NV	-30	39.03	0.047355	±2.5	PASS
EGPRS850	128	NV	-20	36.58	0.044382	±2.5	PASS
EGPRS850	128	NV	-10	37.84	0.045911	±2.5	PASS
EGPRS850	128	NV	0	36.22	0.043946	±2.5	PASS
EGPRS850	128	NV	10	37.03	0.044928	±2.5	PASS
EGPRS850	128	NV	20	37.52	0.045523	±2.5	PASS
EGPRS850	128	NV	30	36.45	0.044225	±2.5	PASS
EGPRS850	128	NV	40	37.48	0.045474	±2.5	PASS
EGPRS850	128	NV	50	33.71	0.040900	±2.5	PASS
EGPRS850	190	NV	-30	39.94	0.047741	±2.5	PASS
EGPRS850	190	NV	-20	39.23	0.046892	±2.5	PASS
EGPRS850	190	NV	-10	41.04	0.049056	±2.5	PASS
EGPRS850	190	NV	0	39.58	0.047311	±2.5	PASS
EGPRS850	190	NV	10	41.20	0.049247	±2.5	PASS
EGPRS850	190	NV	20	37.03	0.044262	±2.5	PASS
EGPRS850	190	NV	30	42.20	0.050442	±2.5	PASS
EGPRS850	190	NV	40	38.94	0.046546	±2.5	PASS
EGPRS850	190	NV	50	39.16	0.046809	±2.5	PASS
EGPRS850	251	NV	-30	39.81	0.046902	±2.5	PASS

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EGPRS850	251	NV	-10	32.77	0.038607	±2.5	PASS
EGPRS850	251	NV	0	34.93	0.041152	±2.5	PASS
EGPRS850	251	NV	10	34.26	0.040363	±2.5	PASS
EGPRS850	251	NV	20	33.25	0.039173	±2.5	PASS
EGPRS850	251	NV	30	33.42	0.039373	±2.5	PASS
EGPRS850	251	NV	40	31.51	0.037123	±2.5	PASS
EGPRS850	251	NV	50	33.71	0.039715	±2.5	PASS

