

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM850	128	5	33.40	26.25	38.45	PASS
GSM850	190	5	33.55	26.4	38.45	PASS
GSM850	251	5	33.46	26.31	38.45	PASS
GSM1900	512	0	29.25	27.25	33.00	PASS
GSM1900	661	0	29.52	27.52	33.00	PASS
GSM1900	810	0	29.43	27.43	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.39	26.24	38.45	PASS
GPRS850	128	5	2	32.73	25.58	38.45	PASS
GPRS850	128	5	3	30.74	23.59	38.45	PASS
GPRS850	128	5	4	29.44	22.29	38.45	PASS
GPRS850	190	5	1	33.55	26.4	38.45	PASS
GPRS850	190	5	2	32.74	25.59	38.45	PASS
GPRS850	190	5	3	30.54	23.39	38.45	PASS
GPRS850	190	5	4	29.18	22.03	38.45	PASS
GPRS850	251	5	1	33.43	26.28	38.45	PASS
GPRS850	251	5	2	32.52	25.37	38.45	PASS
GPRS850	251	5	3	30.17	23.02	38.45	PASS
GPRS850	251	5	4	28.79	21.64	38.45	PASS
GPRS1900	512	0	1	29.18	27.18	33.00	PASS
GPRS1900	512	0	2	28.3	26.3	33.00	PASS
GPRS1900	512	0	3	26.31	24.31	33.00	PASS
GPRS1900	512	0	4	24.87	22.87	33.00	PASS
GPRS1900	661	0	1	29.54	27.54	33.00	PASS
GPRS1900	661	0	2	28.53	26.53	33.00	PASS
GPRS1900	661	0	3	26.63	24.63	33.00	PASS
GPRS1900	661	0	4	25.19	23.19	33.00	PASS
GPRS1900	810	0	1	29.36	27.36	33.00	PASS
GPRS1900	810	0	2	28.5	26.5	33.00	PASS
GPRS1900	810	0	3	26.62	24.62	33.00	PASS
GPRS1900	810	0	4	25.38	23.38	33.00	PASS

Remark: $EIRP\ (dBm) = \text{Conducted power}\ (dBm) + \text{Antenna Gain}\ (dBi)$. (For GSM1900)
 $ERP\ (dBm) = EIRP\ (dBm) - 2.15\ (dB)$. (For GSM850)

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

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.63	13	PASS
GSM1900	661	0	2.65	13	PASS

Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

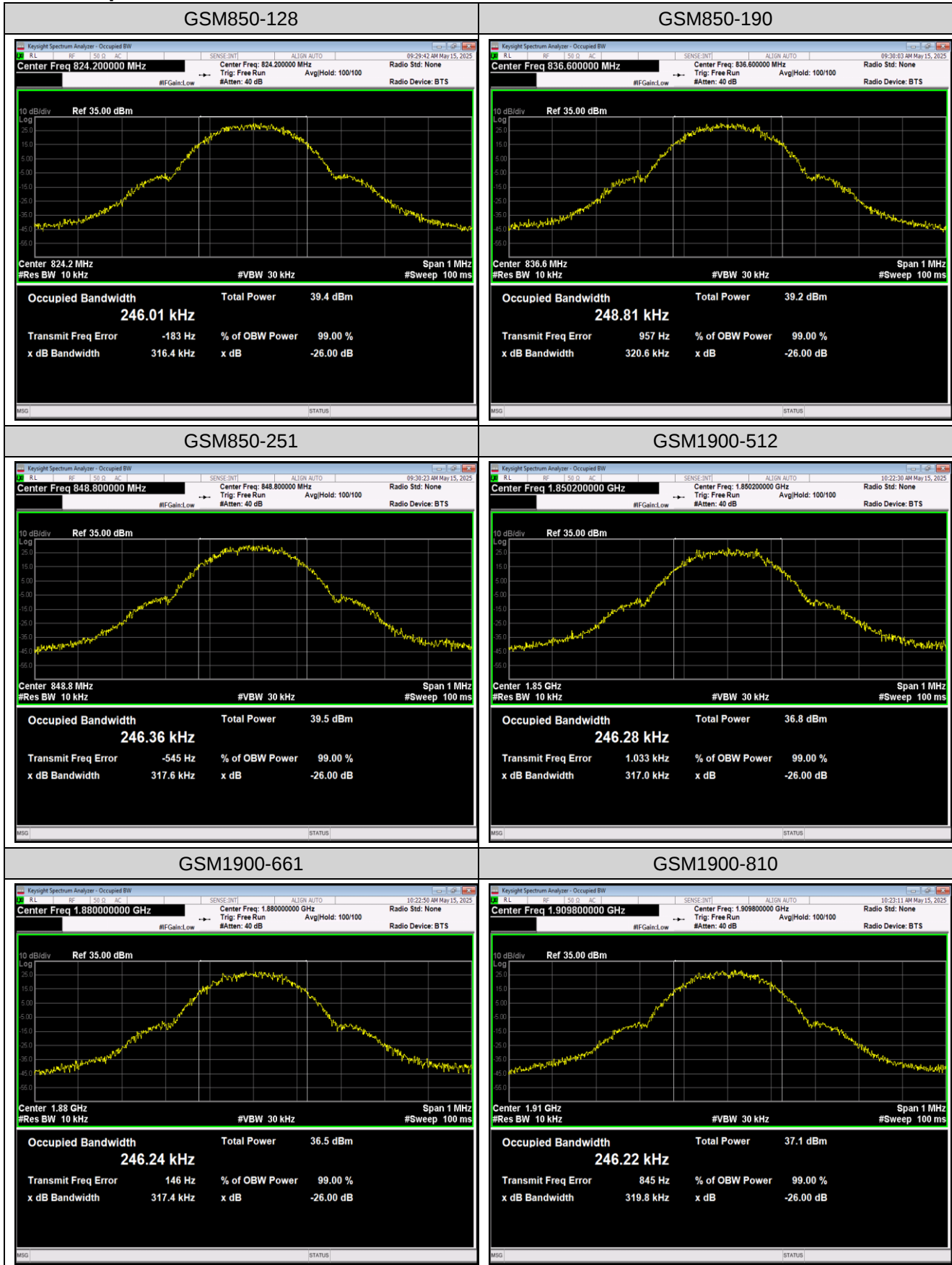


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24601	0.3164	---	PASS
GSM850	190	5	0.24881	0.3206	---	PASS
GSM850	251	5	0.24636	0.3176	---	PASS
GSM1900	512	0	0.24628	0.3170	---	PASS
GSM1900	661	0	0.24624	0.3174	---	PASS
GSM1900	810	0	0.24622	0.3198	---	PASS

Test Graphs

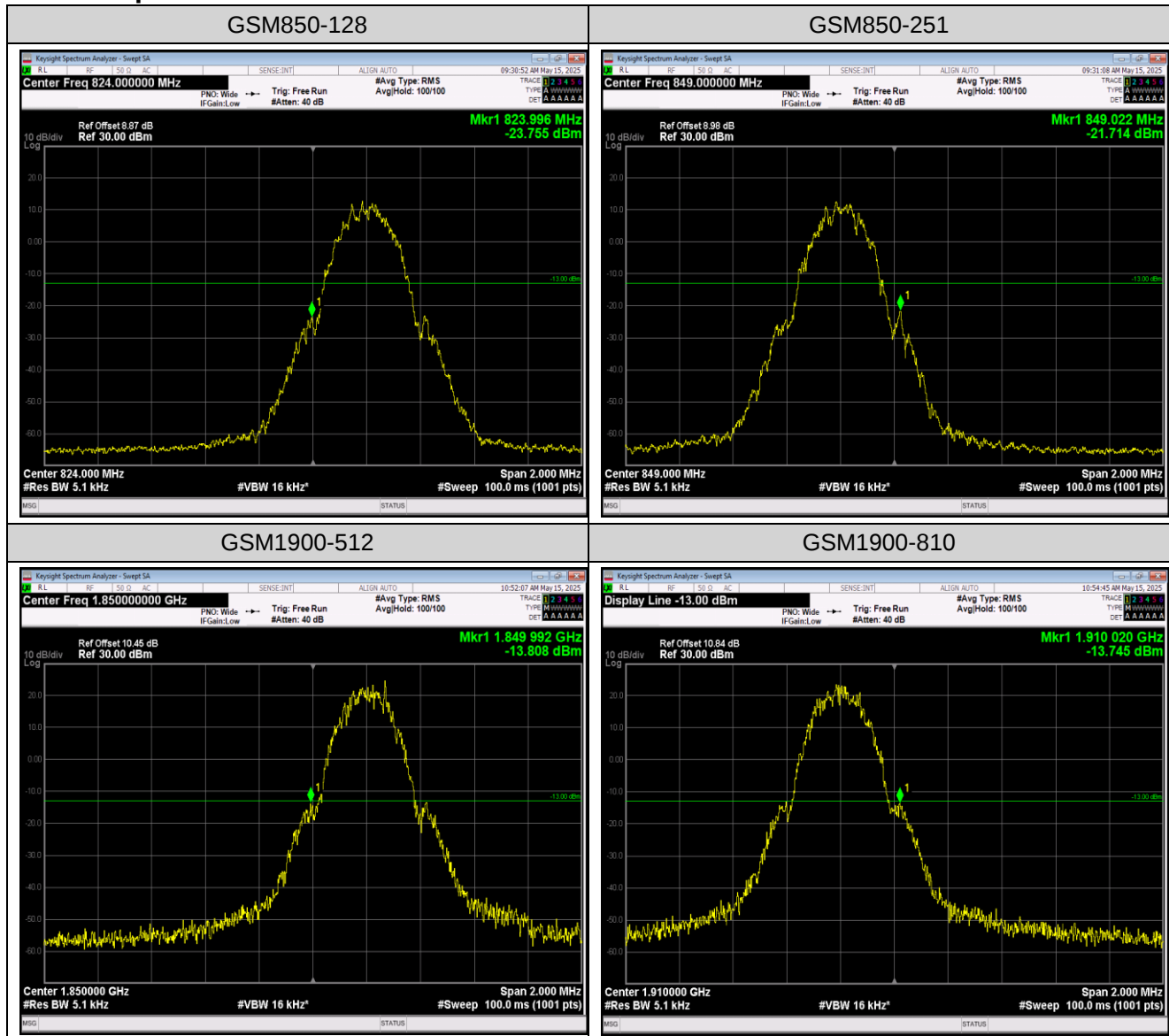


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.75	-13	PASS
GSM850	251	5	849.02	-21.71	-13	PASS
GSM1900	512	0	1849.99	-13.81	-13	PASS
GSM1900	810	0	1910.02	-13.75	-13	PASS

Test Graphs



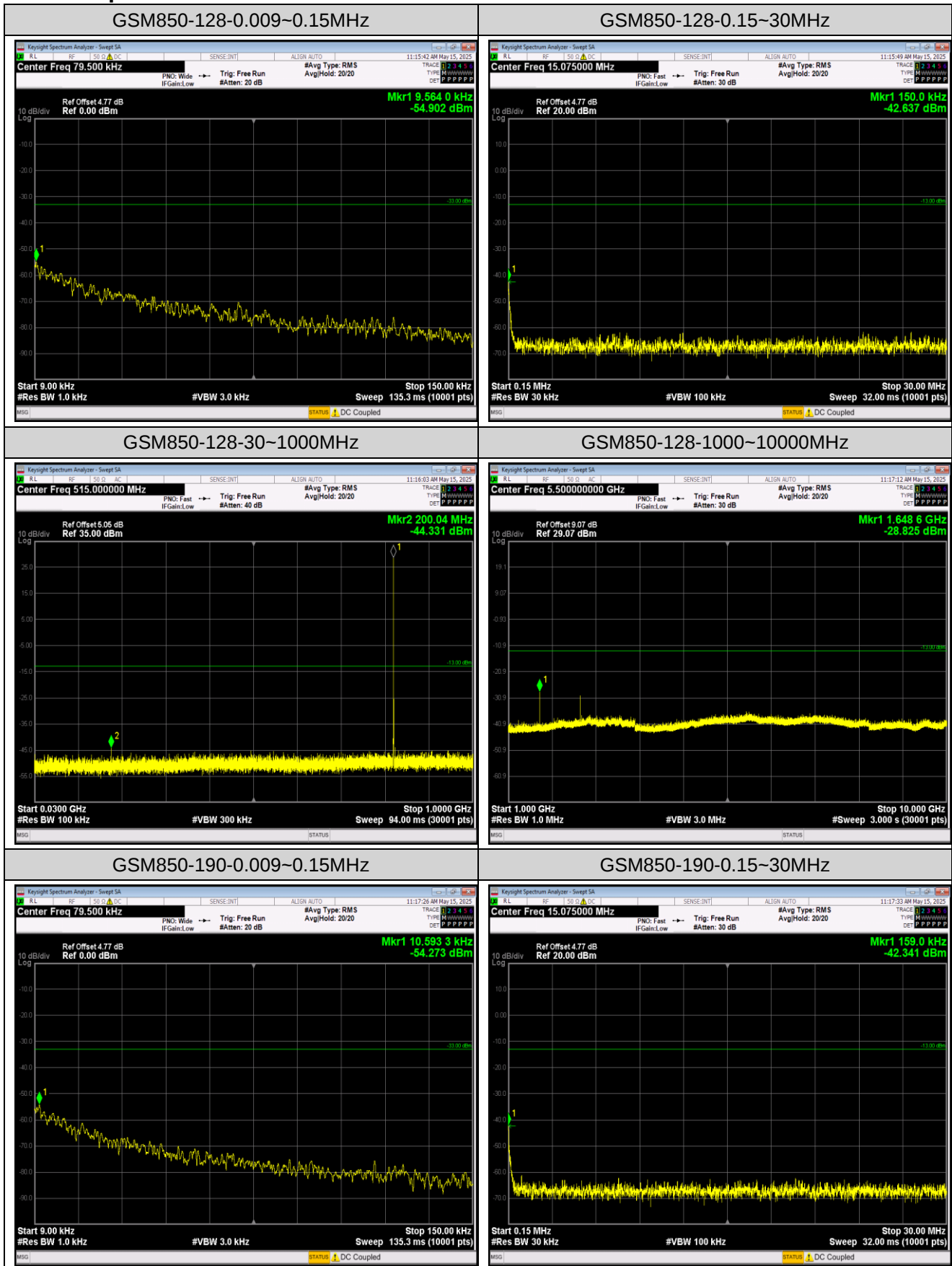
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.9	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-42.64	-13	PASS
GSM850	128	5	30~1000MHz	200.04	-44.33	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-28.83	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.27	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-42.34	-13	PASS
GSM850	190	5	30~1000MHz	724.52	-44.31	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-28.6	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.28	-33	PASS
GSM850	251	5	0.15~30MHz	0.17	-42.33	-13	PASS
GSM850	251	5	30~1000MHz	474.1	-45.33	-13	PASS
GSM850	251	5	1000~10000MHz	2546.2	-29.58	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.27	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-43.76	-23	PASS
GSM1900	512	0	30~1000MHz	961.59	-45.56	-13	PASS
GSM1900	512	0	1000~18000MHz	17039.5	-22.32	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.59	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-38.42	-23	PASS
GSM1900	661	0	30~1000MHz	402.38	-45.73	-13	PASS
GSM1900	661	0	1000~18000MHz	16385.57	-21.78	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.85	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-40.41	-23	PASS
GSM1900	810	0	30~1000MHz	982.35	-45.17	-13	PASS
GSM1900	810	0	1000~18000MHz	16379.33	-21.55	-13	PASS

Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

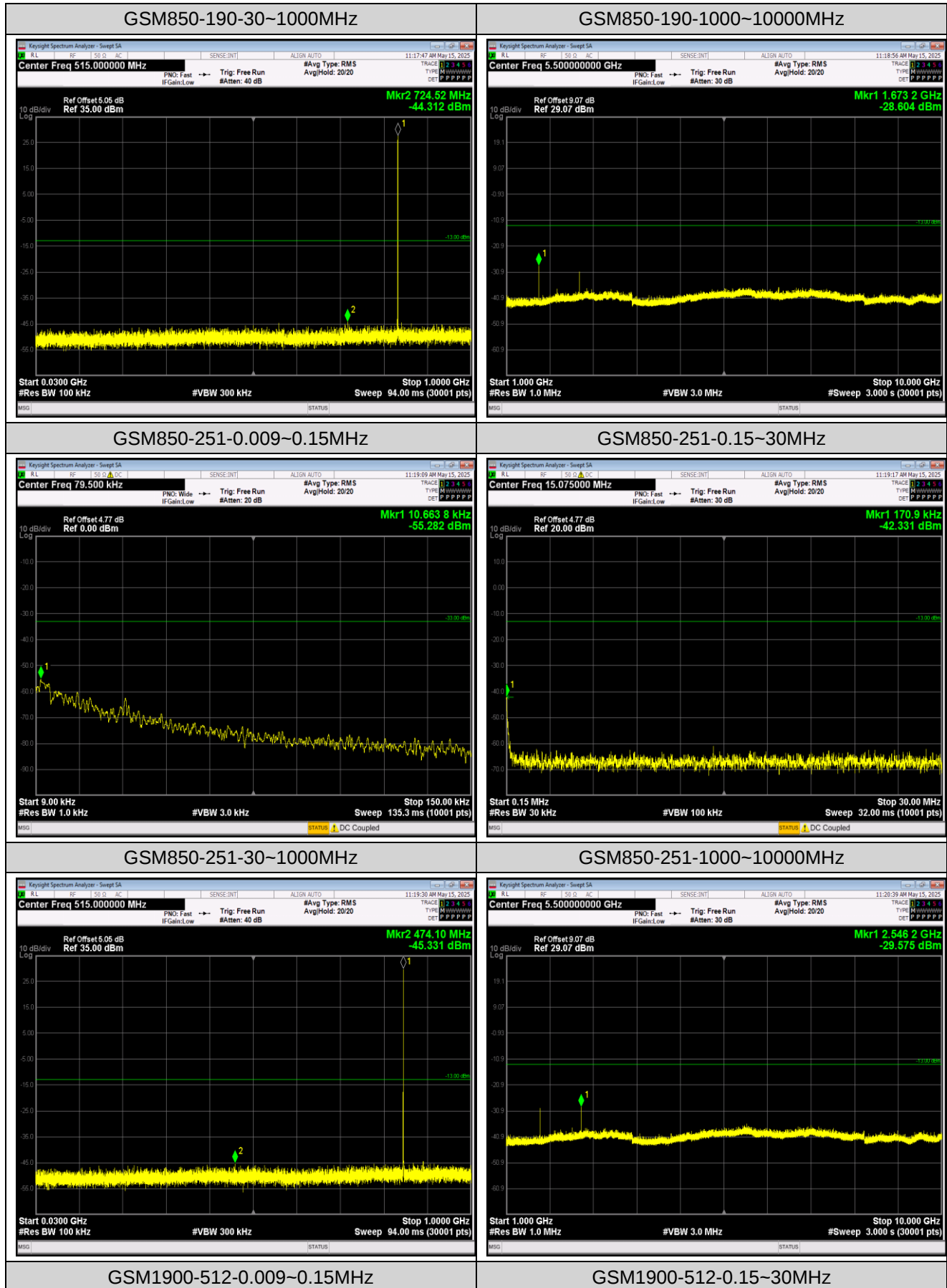


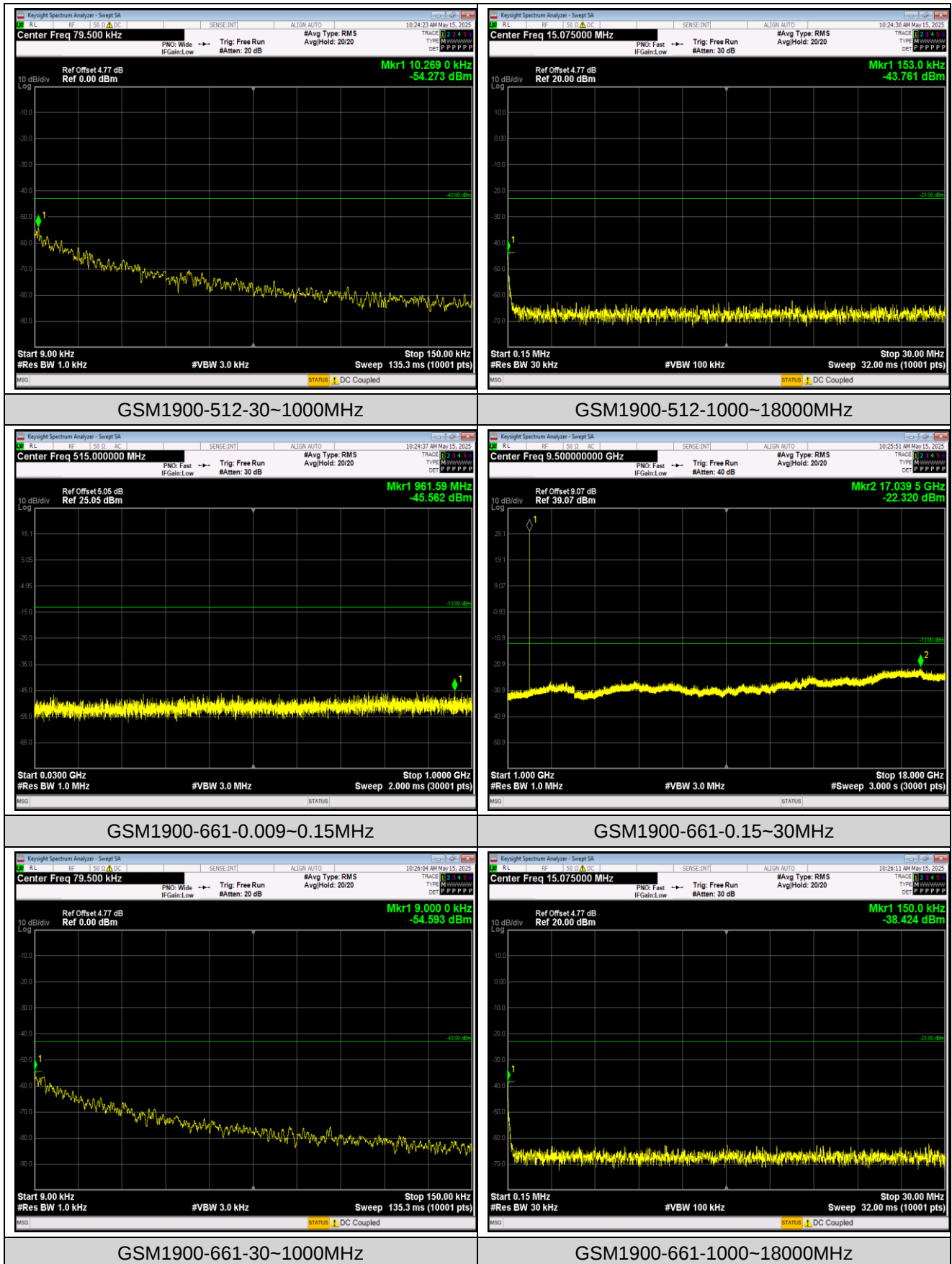
JianYan Testing Group Shenzhen Co., Ltd.

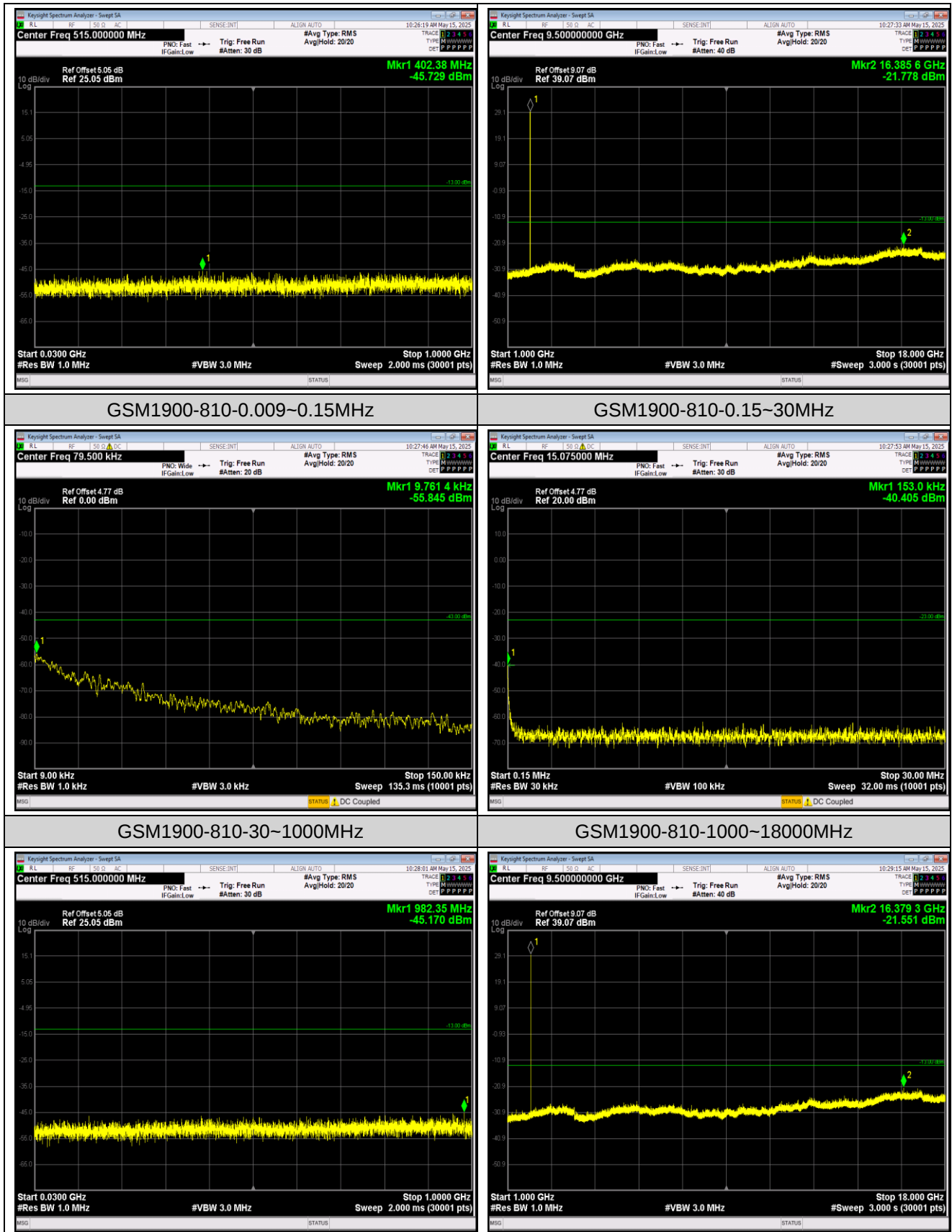
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.92	-30	4.29	0.005128	±2.5	Pass
	-20	6.81	0.008140		
	-10	6.17	0.007375		
	0	5.88	0.007028		
	10	9.04	0.010806		
	20	1.39	0.001661		
	30	6.30	0.007530		
	40	6.84	0.008176		
	50	8.88	0.010614		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	12.37	0.014786	±2.5	Pass
	3.92	7.72	0.009228		
	4.53	7.52	0.008989		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: PCS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.92	-30	26.76	0.014234	Within authorized band for PCS 1900	Pass
	-20	30.87	0.016420		
	-10	24.44	0.013000		
	0	14.59	0.007761		
	10	18.44	0.009809		
	20	0.97	0.000516		
	30	19.15	0.010186		
	40	23.57	0.012537		
	50	33.35	0.017739		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	27.18	0.014457	Within authorized band for PCS 1900	Pass
	3.92	15.50	0.008245		
	4.53	26.83	0.014271		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
GSM1900	661	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

