

## 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	3	33.01	28.86	38.5	PASS
GSM850	190	3	32.94	28.79	38.5	PASS
GSM850	251	3	32.87	28.72	38.5	PASS
GSM1900	512	0	30.02	28.82	33	PASS
GSM1900	661	0	29.85	28.65	33	PASS
GSM1900	810	0	29.91	28.71	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	32.99	28.84	38.5	PASS
GPRS850	128	3	2	30.89	26.74	38.5	PASS
GPRS850	128	3	3	28.98	24.83	38.5	PASS
GPRS850	128	3	4	26.70	22.55	38.5	PASS
GPRS850	190	3	1	32.85	28.7	38.5	PASS
GPRS850	190	3	2	30.80	26.65	38.5	PASS
GPRS850	190	3	3	28.90	24.75	38.5	PASS
GPRS850	190	3	4	26.68	22.53	38.5	PASS
GPRS850	251	3	1	32.84	28.69	38.5	PASS
GPRS850	251	3	2	30.63	26.48	38.5	PASS
GPRS850	251	3	3	28.74	24.59	38.5	PASS
GPRS850	251	3	4	26.54	22.39	38.5	PASS
GPRS1900	512	0	1	30.01	28.81	33	PASS
GPRS1900	512	0	2	27.78	26.58	33	PASS
GPRS1900	512	0	3	26.20	25	33	PASS
GPRS1900	512	0	4	24.13	22.93	33	PASS
GPRS1900	661	0	1	29.82	28.62	33	PASS
GPRS1900	661	0	2	27.60	26.4	33	PASS
GPRS1900	661	0	3	26.01	24.81	33	PASS
GPRS1900	661	0	4	23.95	22.75	33	PASS
GPRS1900	810	0	1	29.93	28.73	33	PASS
GPRS1900	810	0	2	27.55	26.35	33	PASS
GPRS1900	810	0	3	25.95	24.75	33	PASS
GPRS1900	810	0	4	23.87	22.67	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	25.91	21.76	38.5	PASS
EGPRS850	128	8	2	25.72	21.57	38.5	PASS
EGPRS850	128	8	3	24.00	19.85	38.5	PASS
EGPRS850	128	8	4	21.67	17.52	38.5	PASS
EGPRS850	190	8	1	25.85	21.7	38.5	PASS
EGPRS850	190	8	2	25.89	21.74	38.5	PASS
EGPRS850	190	8	3	24.21	20.06	38.5	PASS
EGPRS850	190	8	4	21.85	17.7	38.5	PASS
EGPRS850	251	8	1	25.45	21.3	38.5	PASS
EGPRS850	251	8	2	25.52	21.37	38.5	PASS
EGPRS850	251	8	3	23.84	19.69	38.5	PASS
EGPRS850	251	8	4	21.50	17.35	38.5	PASS
EGPRS1900	512	2	1	25.25	24.05	33	PASS
EGPRS1900	512	2	2	25.11	23.91	33	PASS
EGPRS1900	512	2	3	23.59	22.39	33	PASS
EGPRS1900	512	2	4	21.13	19.93	33	PASS
EGPRS1900	661	2	1	24.89	23.69	33	PASS
EGPRS1900	661	2	2	24.95	23.75	33	PASS
EGPRS1900	661	2	3	23.42	22.22	33	PASS
EGPRS1900	661	2	4	21.32	20.12	33	PASS
EGPRS1900	810	2	1	24.95	23.75	33	PASS
EGPRS1900	810	2	2	24.38	23.18	33	PASS
EGPRS1900	810	2	3	23.20	22	33	PASS
EGPRS1900	810	2	4	21.28	20.08	33	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

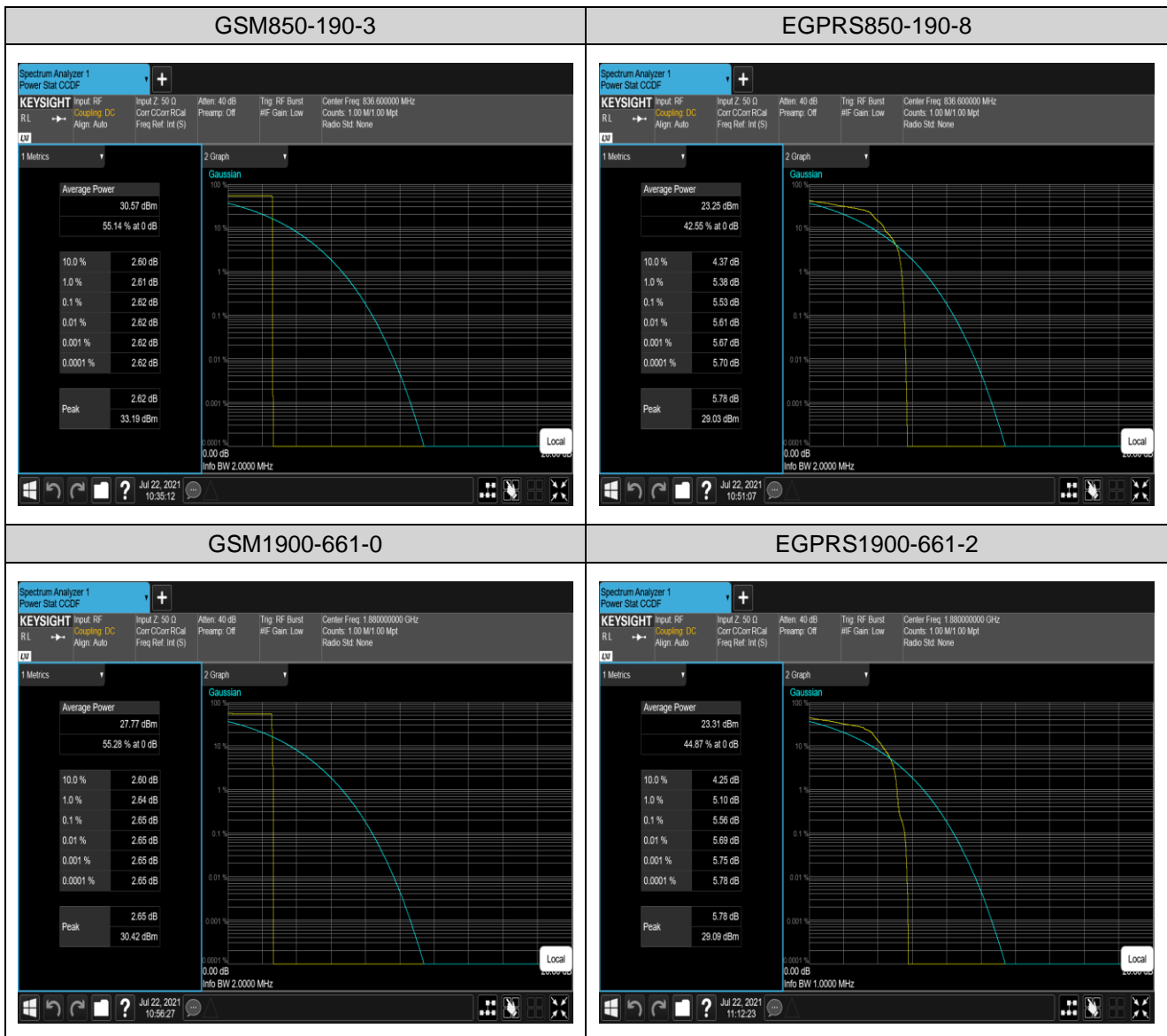
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.62	13	PASS
EGPRS850	190	8	5.53	13	PASS
GSM1900	661	0	2.65	13	PASS
EGPRS1900	661	2	5.56	13	PASS

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

### Test Graphs

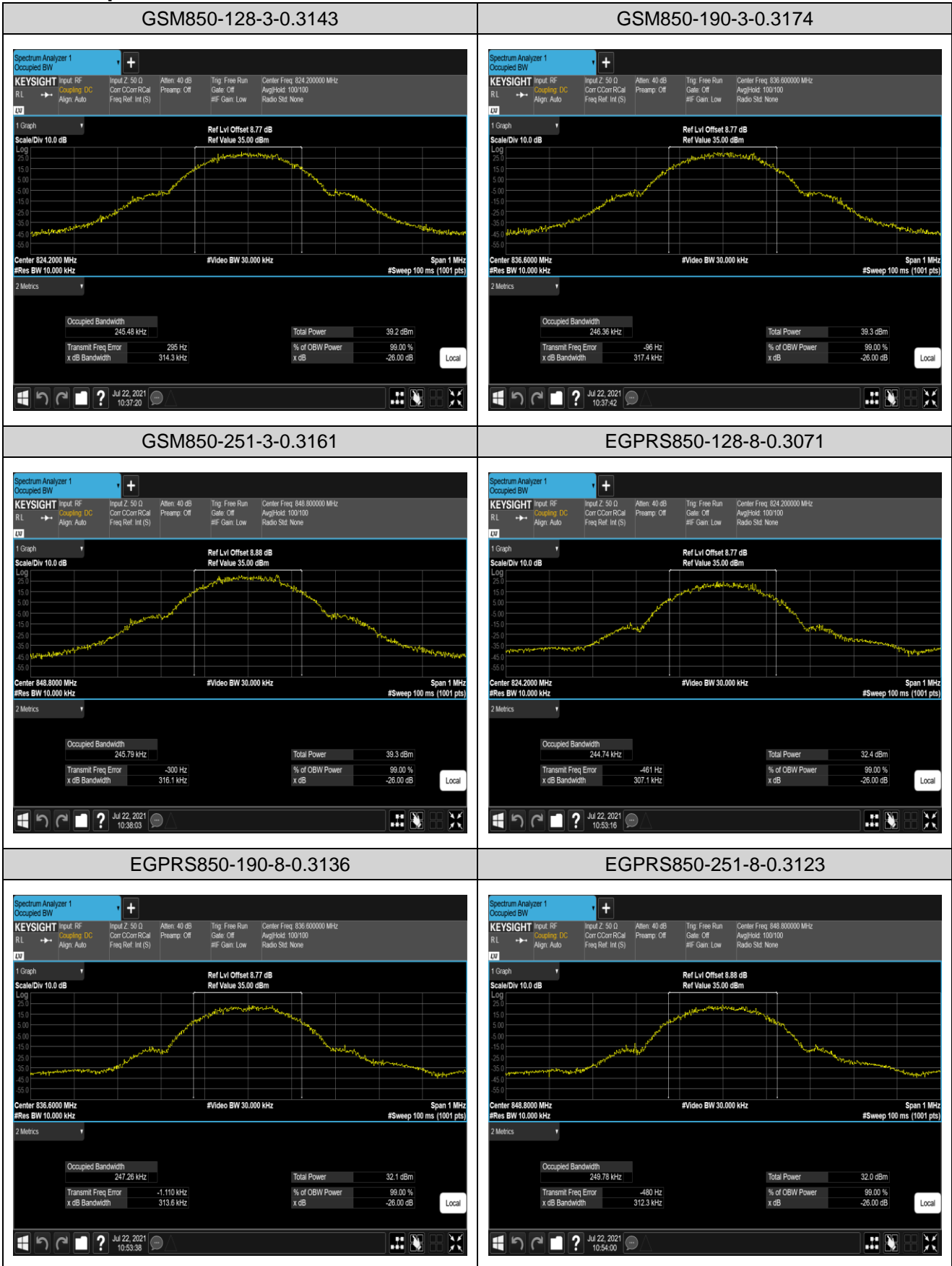


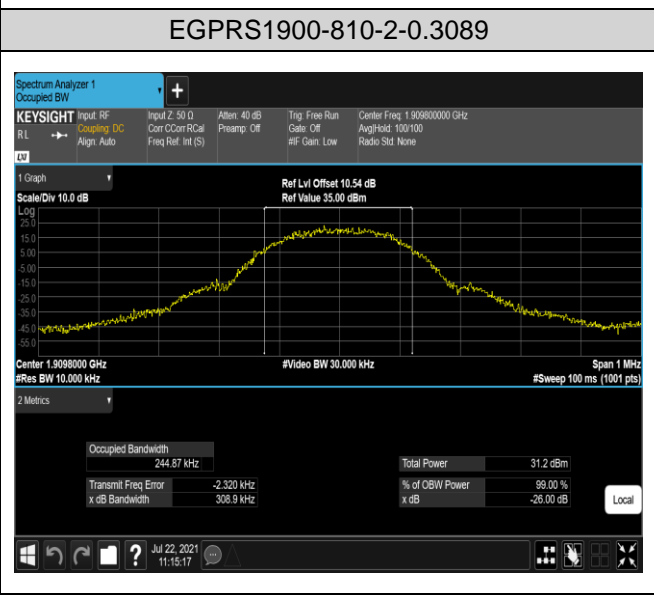
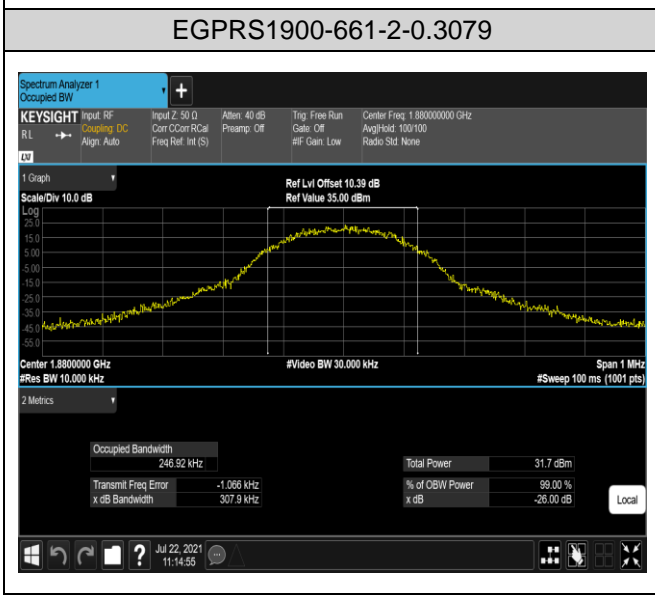
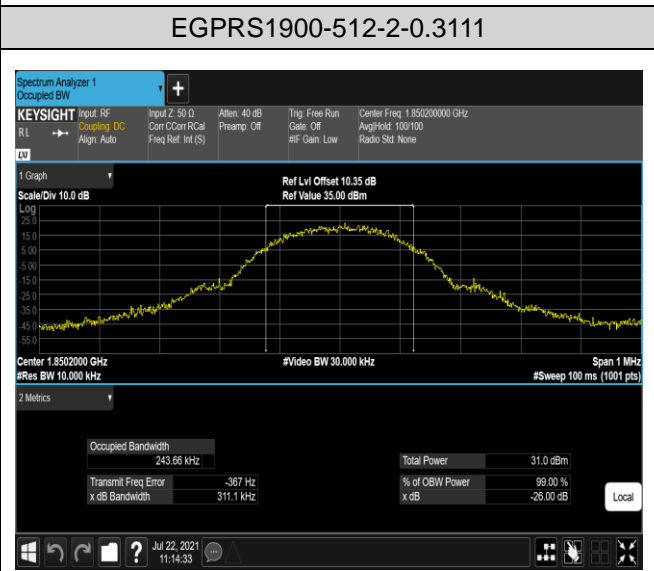
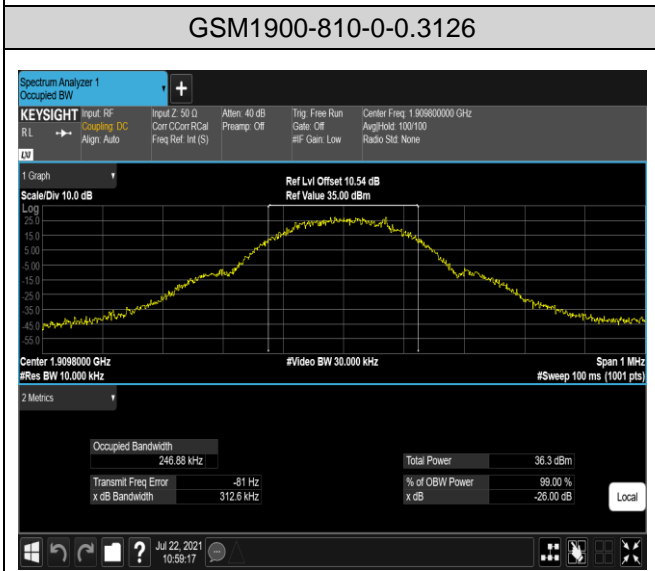
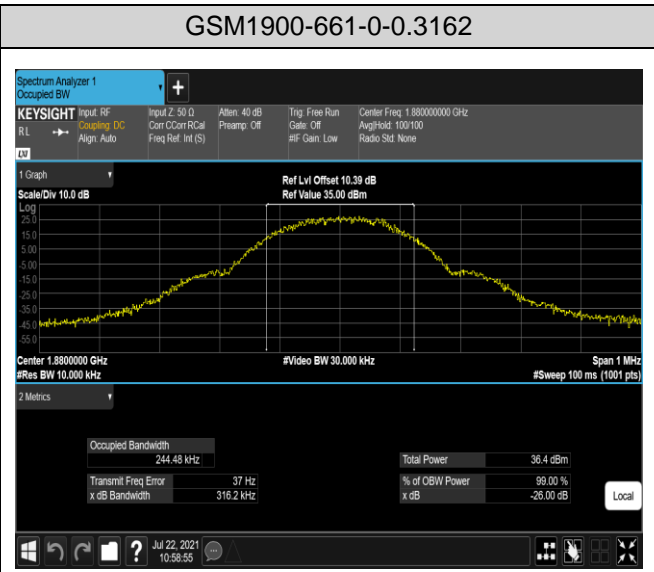
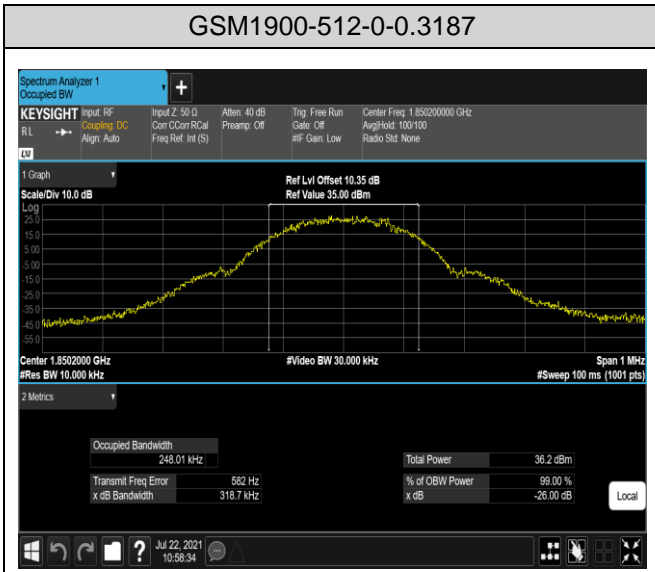
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24548	0.3143	---	PASS
GSM850	190	3	0.24636	0.3174	---	PASS
GSM850	251	3	0.24579	0.3161	---	PASS
EGPRS850	128	8	0.24474	0.3071	---	PASS
EGPRS850	190	8	0.24726	0.3136	---	PASS
EGPRS850	251	8	0.24978	0.3123	---	PASS
GSM1900	512	0	0.24801	0.3187	---	PASS
GSM1900	661	0	0.24448	0.3162	---	PASS
GSM1900	810	0	0.24688	0.3126	---	PASS
EGPRS1900	512	2	0.24366	0.3111	---	PASS
EGPRS1900	661	2	0.24692	0.3079	---	PASS
EGPRS1900	810	2	0.24487	0.3089	---	PASS

Test Graphs

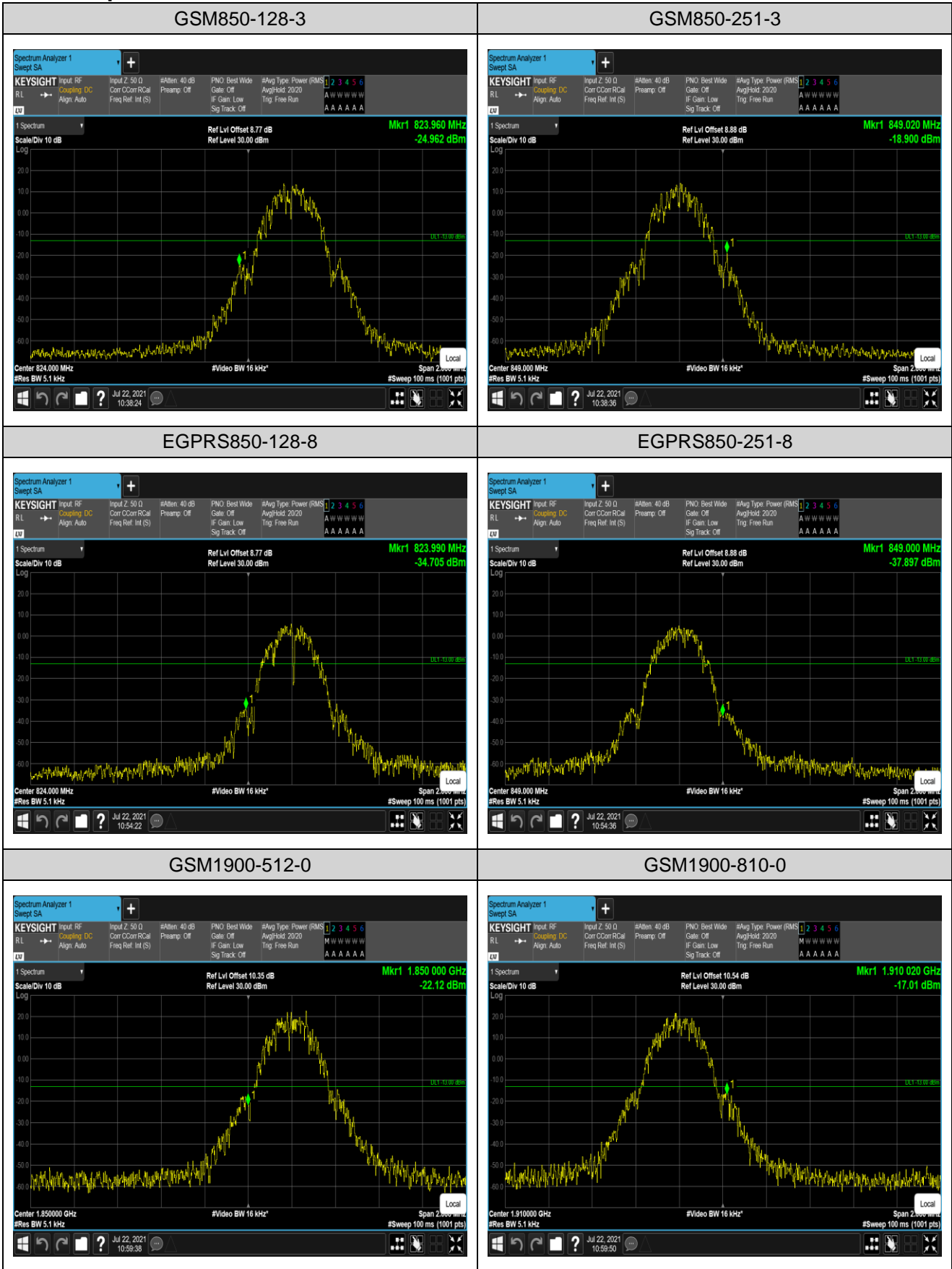




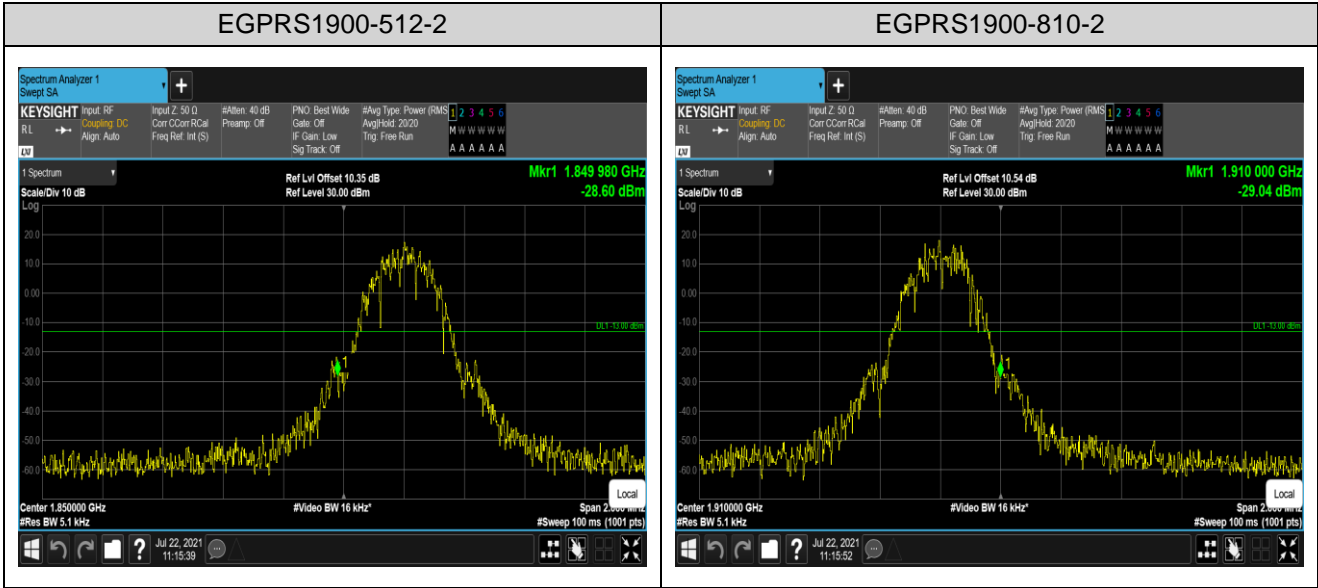
**Appendix D: Band Edge****Test Result**

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.96	-24.21	-13	PASS
GSM850	251	3	849.02	-18.90	-13	PASS
EGPRS850	128	8	823.99	-33.27	-13	PASS
EGPRS850	251	8	849.00	-32.19	-13	PASS
GSM1900	512	0	1850.00	-17.06	-13	PASS
GSM1900	810	0	1910.02	-14.33	-13	PASS
EGPRS1900	512	2	1849.98	-21.57	-13	PASS
EGPRS1900	810	2	1910.00	-21.02	-13	PASS

Test Graphs







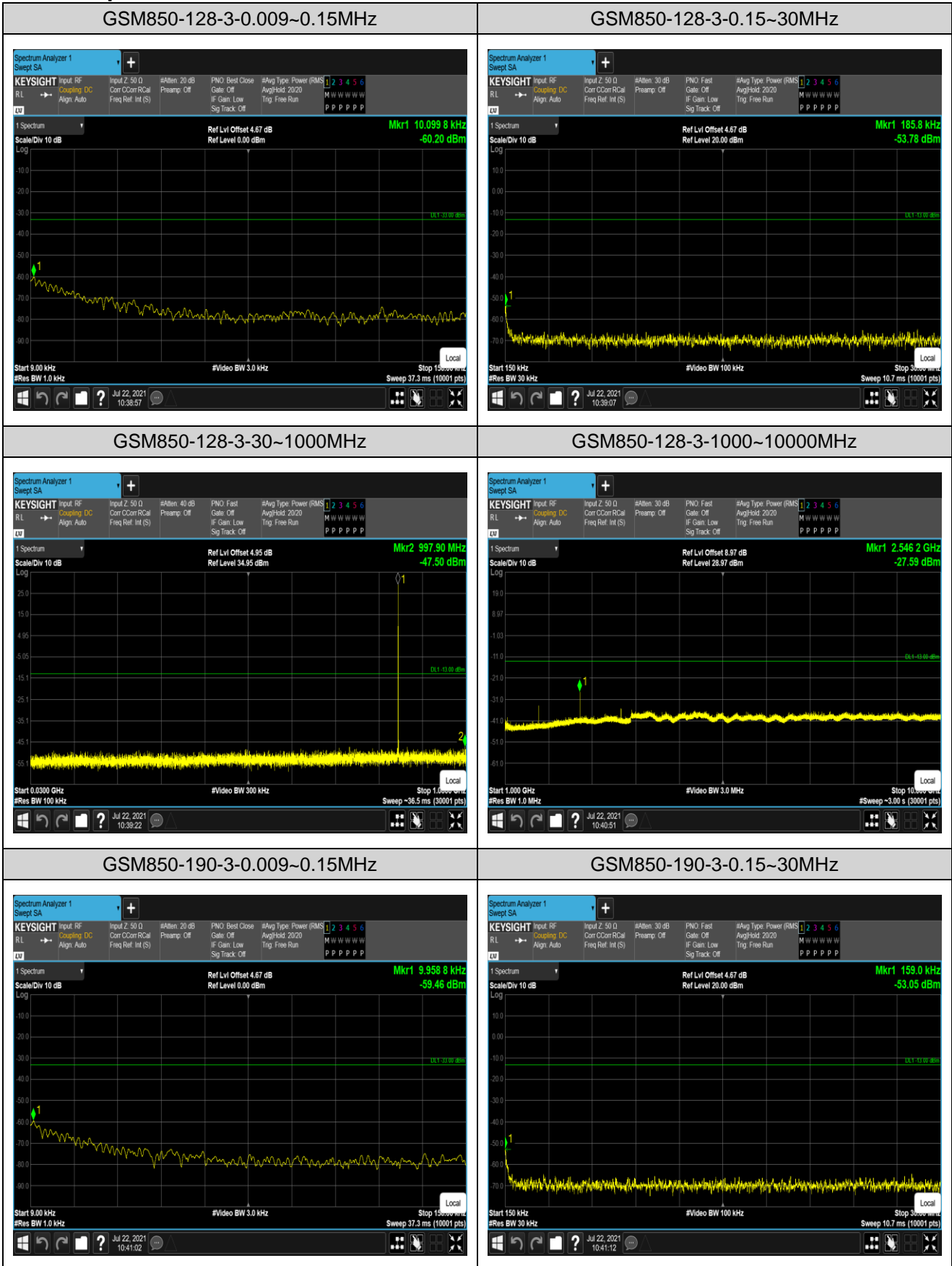
## Appendix E: Conducted Spurious Emission

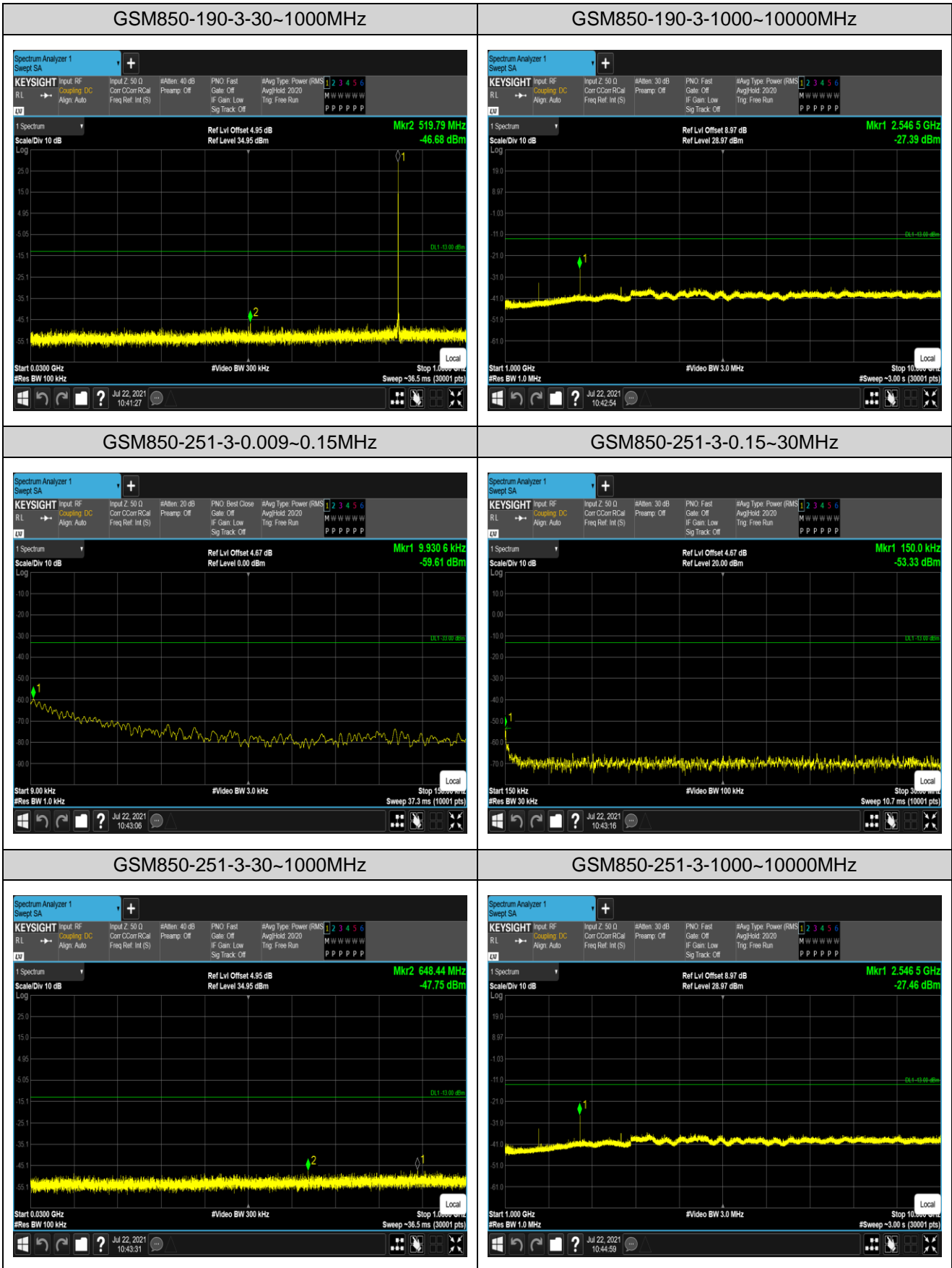
### Test Result

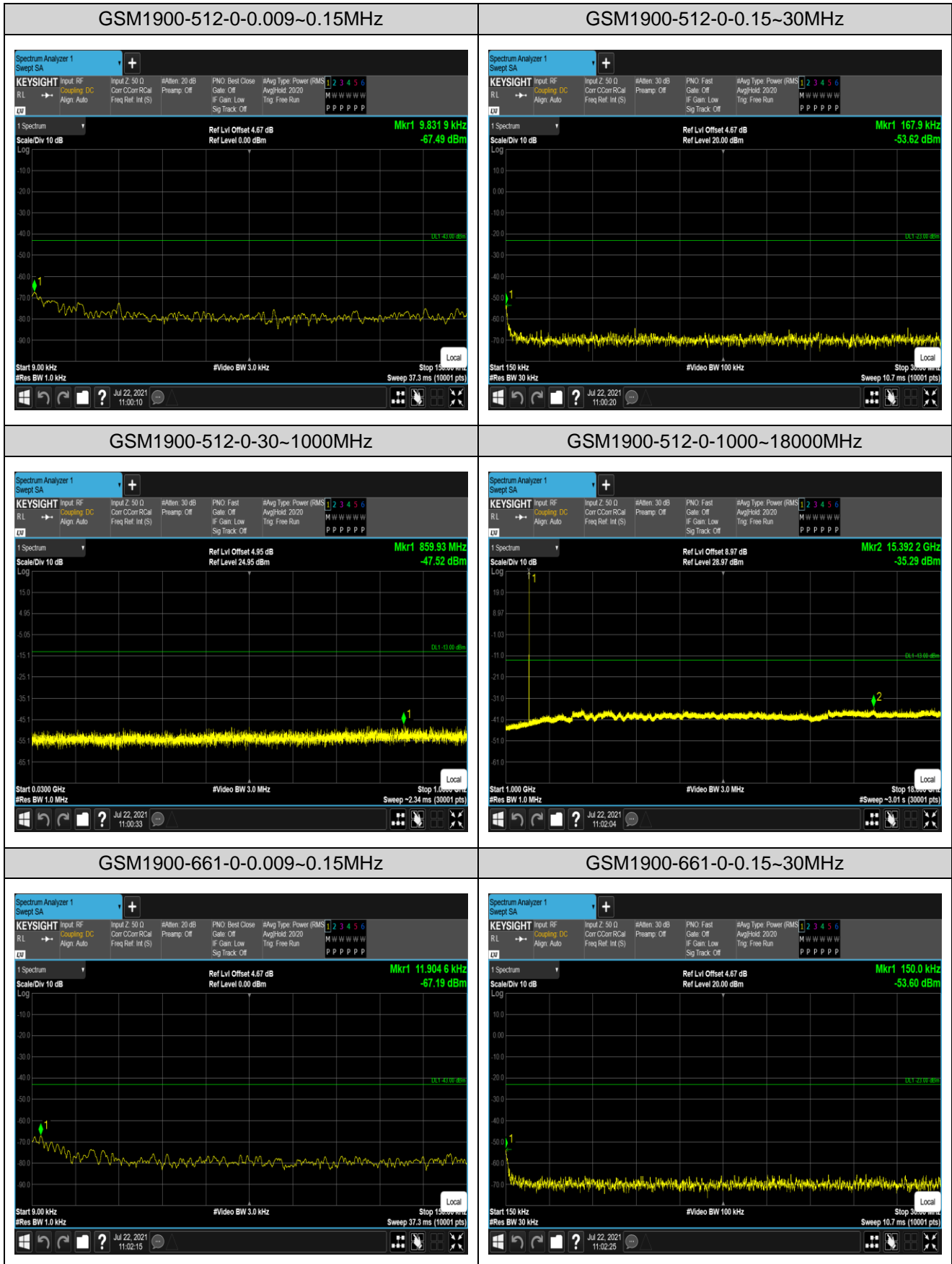
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-60.2	-33	PASS
GSM850	128	3	0.15~30MHz	0.19	-53.78	-13	PASS
GSM850	128	3	30~1000MHz	997.9	-47.5	-13	PASS
GSM850	128	3	1000~10000MHz	2546.2	-27.59	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-59.46	-33	PASS
GSM850	190	3	0.15~30MHz	0.16	-53.05	-13	PASS
GSM850	190	3	30~1000MHz	519.79	-46.68	-13	PASS
GSM850	190	3	1000~10000MHz	2546.5	-27.39	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-59.61	-33	PASS
GSM850	251	3	0.15~30MHz	0.15	-53.33	-13	PASS
GSM850	251	3	30~1000MHz	648.44	-47.75	-13	PASS
GSM850	251	3	1000~10000MHz	2546.5	-27.46	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-67.49	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-53.62	-23	PASS
GSM1900	512	0	30~1000MHz	859.93	-47.52	-13	PASS
GSM1900	512	0	1000~18000MHz	15392.2	-35.29	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-67.19	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-53.6	-23	PASS
GSM1900	661	0	30~1000MHz	752	-46.88	-13	PASS
GSM1900	661	0	1000~18000MHz	17631.67	-35.12	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-67.74	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-54.35	-23	PASS
GSM1900	810	0	30~1000MHz	808.72	-47	-13	PASS
GSM1900	810	0	1000~18000MHz	17257.67	-35.51	-13	PASS

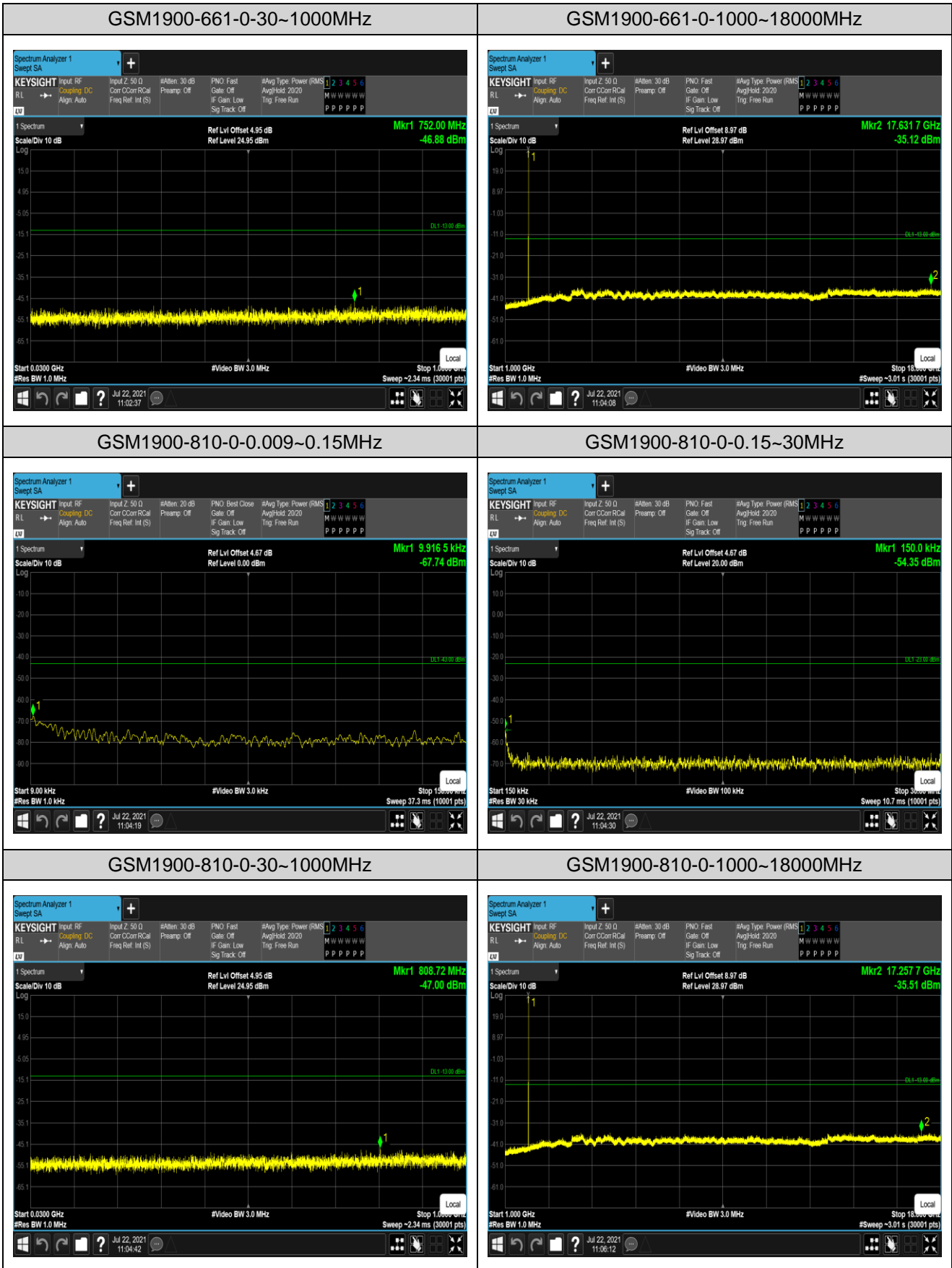
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









## 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		
3.70	-30	-1.26	-0.001506	±2.5	Pass
	-20	-2.36	-0.002821		
	-10	-0.06	-0.000072		
	0	1.45	0.001733		
	10	0.65	0.000777		
	20	0.52	0.000622		
	30	0.03	0.000036		
	40	3.10	0.003705		
	50	4.00	0.004781		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.36	0.001626	±2.5	Pass
	3.70	-3.58	-0.004279		
	4.25	0.84	0.001004		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	10.49	0.012539	±2.5	Pass
	-20	11.82	0.014129		
	-10	9.62	0.011499		
	0	10.23	0.012228		
	10	11.82	0.014129		
	20	9.91	0.011846		
	30	14.30	0.017093		
	40	11.27	0.013471		
	50	8.10	0.009682		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	13.75	0.016436	±2.5	Pass
	3.70	10.20	0.012192		
	4.25	14.17	0.016938		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					



Reference Frequency: PCS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	1.65	0.000878	Within authorized band for PCS 1900	Pass
	-20	9.43	0.005016		
	-10	12.14	0.006457		
	0	6.62	0.003521		
	10	-4.07	-0.002165		
	20	-3.55	-0.001888		
	30	-9.65	-0.005133		
	40	5.91	0.003144		
	50	7.85	0.004176		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	6.94	0.003691	Within authorized band for PCS 1900	Pass
	3.70	3.55	0.001888		
	4.25	-0.23	-0.000122		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

Reference Frequency: EGPRS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	7.81	0.004154	Within authorized band for PCS 1900	Pass
	-20	8.49	0.004516		
	-10	2.68	0.001426		
	0	4.71	0.002505		
	10	3.33	0.001771		
	20	0.97	0.000516		
	30	0.03	0.000016		
	40	5.36	0.002851		
	50	-1.87	-0.000995		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	9.30	0.004947	Within authorized band for PCS 1900	Pass
	3.70	5.94	0.003160		
	4.25	5.10	0.002713		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

## Appendix G: Modulation Characteristics

### Test Result

Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS

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

### Test Graphs

