

## 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	32.15	28.5	38.5	PASS
GSM850	190	3	32.42	28.77	38.5	PASS
GSM850	251	3	32.40	28.75	38.5	PASS
GSM1900	512	0	29.68	29.18	33	PASS
GSM1900	661	0	29.64	29.14	33	PASS
GSM1900	810	0	29.55	29.05	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	32.15	28.5	38.5	PASS
GPRS850	128	3	2	31.50	27.85	38.5	PASS
GPRS850	128	3	3	29.86	26.21	38.5	PASS
GPRS850	128	3	4	28.71	25.06	38.5	PASS
GPRS850	190	3	1	32.33	28.68	38.5	PASS
GPRS850	190	3	2	31.74	28.09	38.5	PASS
GPRS850	190	3	3	30.10	26.45	38.5	PASS
GPRS850	190	3	4	28.97	25.32	38.5	PASS
GPRS850	251	3	1	32.35	28.7	38.5	PASS
GPRS850	251	3	2	31.76	28.11	38.5	PASS
GPRS850	251	3	3	30.12	26.47	38.5	PASS
GPRS850	251	3	4	28.99	25.34	38.5	PASS
GPRS1900	512	0	1	29.69	29.19	33	PASS
GPRS1900	512	0	2	29.00	28.5	33	PASS
GPRS1900	512	0	3	27.34	26.84	33	PASS
GPRS1900	512	0	4	26.23	25.73	33	PASS
GPRS1900	661	0	1	29.61	29.11	33	PASS
GPRS1900	661	0	2	28.95	28.45	33	PASS
GPRS1900	661	0	3	27.30	26.8	33	PASS
GPRS1900	661	0	4	26.21	25.71	33	PASS
GPRS1900	810	0	1	29.54	29.04	33	PASS
GPRS1900	810	0	2	28.89	28.39	33	PASS
GPRS1900	810	0	3	27.24	26.74	33	PASS
GPRS1900	810	0	4	26.17	25.67	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.05	23.4	38.5	PASS
EGPRS850	128	8	2	25.83	22.18	38.5	PASS
EGPRS850	128	8	3	23.70	20.05	38.5	PASS
EGPRS850	128	8	4	22.20	18.55	38.5	PASS
EGPRS850	190	8	1	27.12	23.47	38.5	PASS
EGPRS850	190	8	2	26.00	22.35	38.5	PASS
EGPRS850	190	8	3	23.86	20.21	38.5	PASS
EGPRS850	190	8	4	22.40	18.75	38.5	PASS
EGPRS850	251	8	1	27.26	23.61	38.5	PASS
EGPRS850	251	8	2	26.10	22.45	38.5	PASS
EGPRS850	251	8	3	23.99	20.34	38.5	PASS
EGPRS850	251	8	4	22.46	18.81	38.5	PASS
EGPRS1900	512	2	1	25.45	24.95	33	PASS
EGPRS1900	512	2	2	24.12	23.62	33	PASS
EGPRS1900	512	2	3	21.62	21.12	33	PASS
EGPRS1900	512	2	4	20.12	19.62	33	PASS
EGPRS1900	661	2	1	25.21	24.71	33	PASS
EGPRS1900	661	2	2	23.97	23.47	33	PASS
EGPRS1900	661	2	3	21.54	21.04	33	PASS
EGPRS1900	661	2	4	20.04	19.54	33	PASS
EGPRS1900	810	2	1	25.14	24.64	33	PASS
EGPRS1900	810	2	2	23.98	23.48	33	PASS
EGPRS1900	810	2	3	21.50	21	33	PASS
EGPRS1900	810	2	4	20.10	19.6	33	PASS

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

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

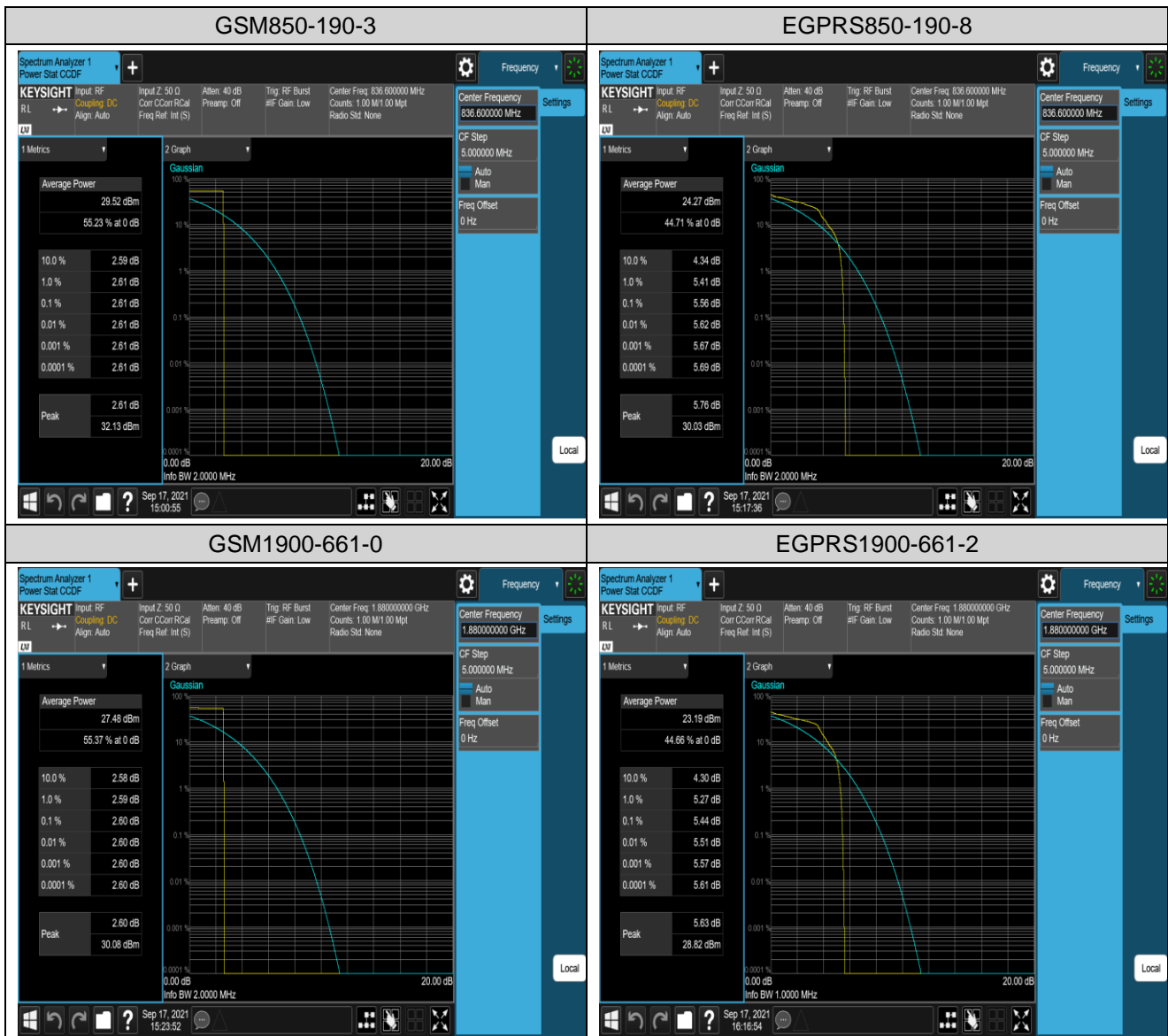
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.61	13	PASS
EGPRS850	190	8	5.56	13	PASS
GSM1900	661	0	2.6	13	PASS
EGPRS1900	661	2	5.44	13	PASS

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

### Test Graphs

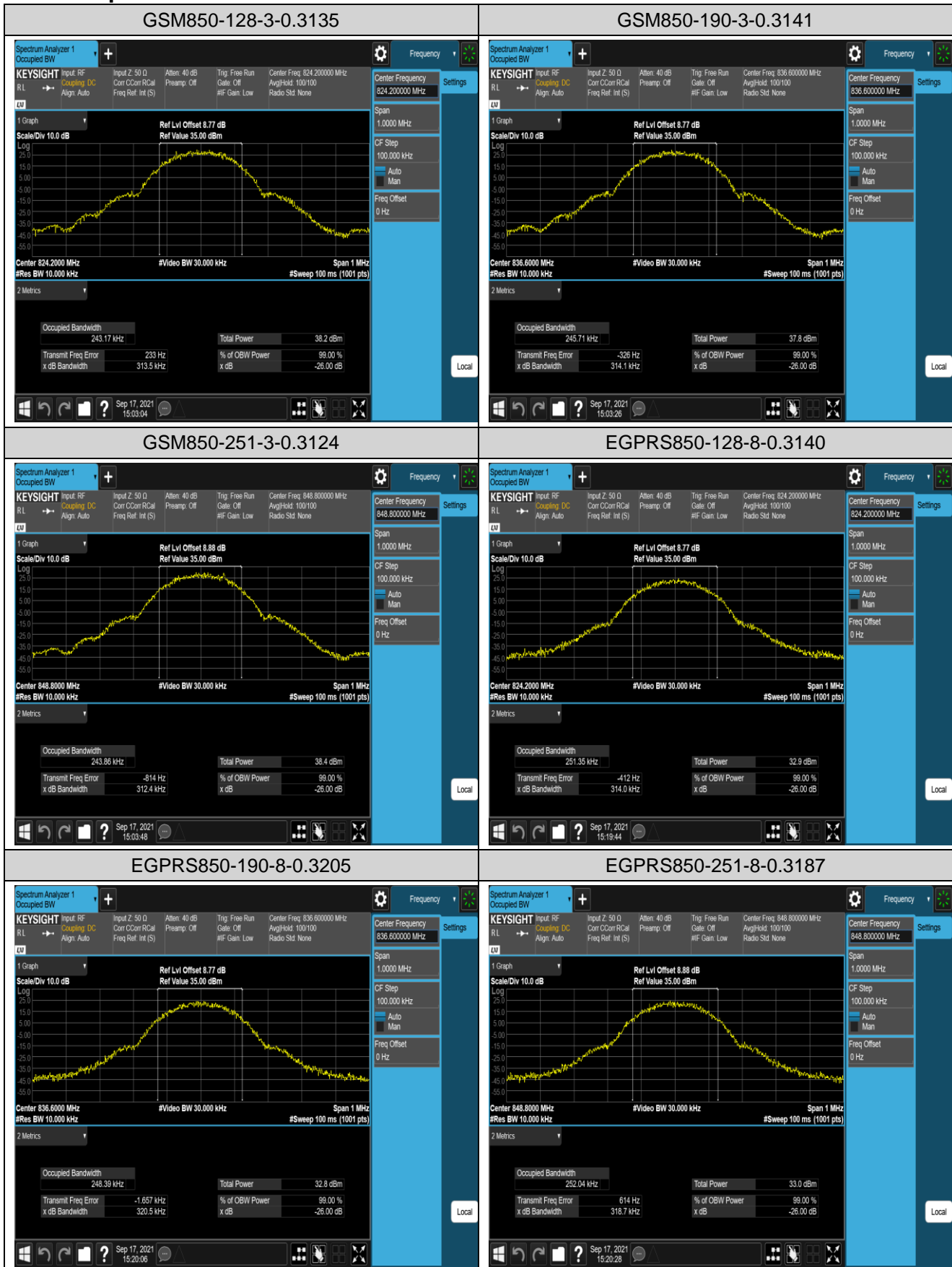


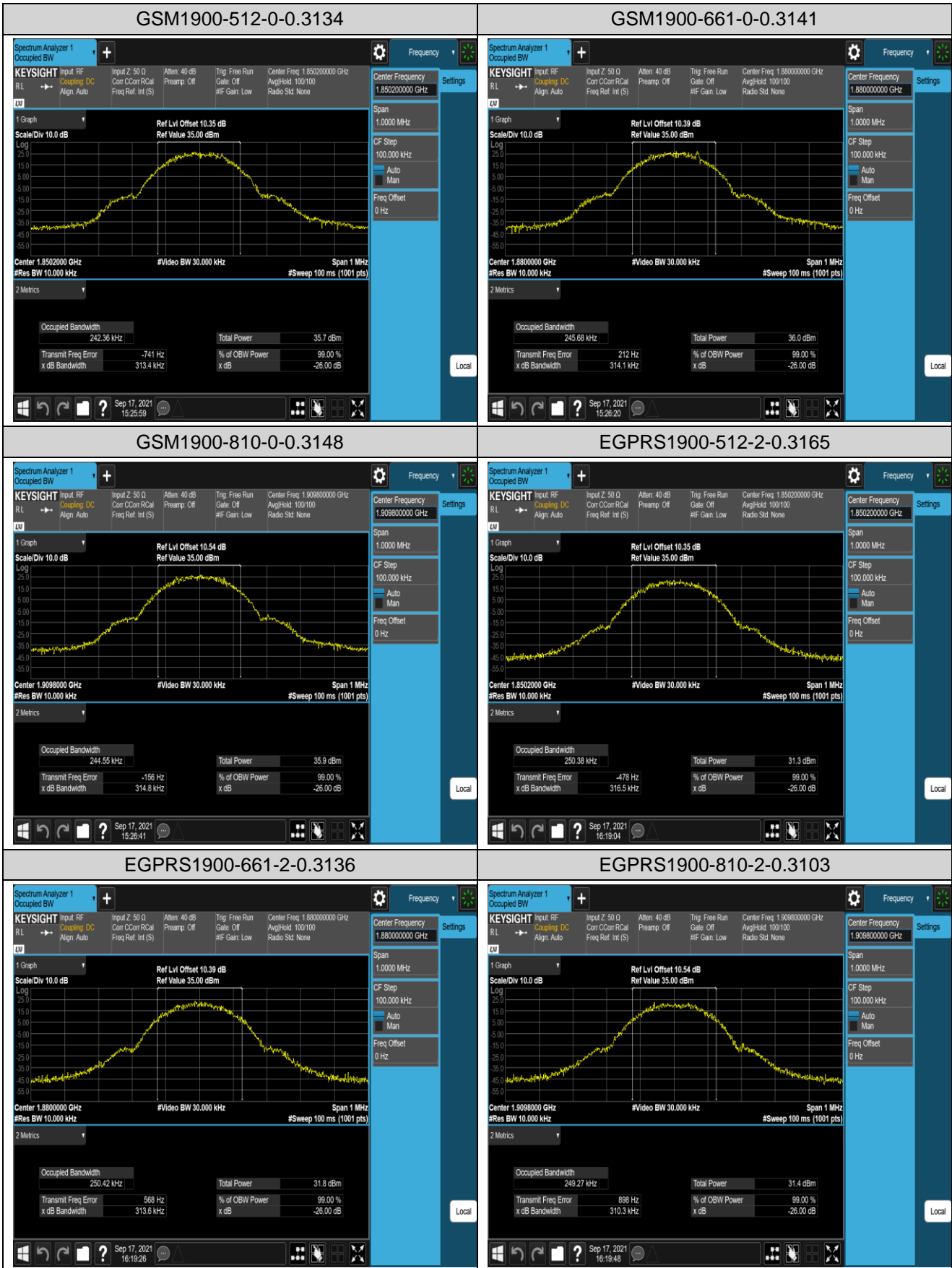
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24317	0.3135	---	PASS
GSM850	190	3	0.24571	0.3141	---	PASS
GSM850	251	3	0.24386	0.3124	---	PASS
EGPRS850	128	8	0.25135	0.3140	---	PASS
EGPRS850	190	8	0.24839	0.3205	---	PASS
EGPRS850	251	8	0.25204	0.3187	---	PASS
GSM1900	512	0	0.24236	0.3134	---	PASS
GSM1900	661	0	0.24568	0.3141	---	PASS
GSM1900	810	0	0.24455	0.3148	---	PASS
EGPRS1900	512	2	0.25038	0.3165	---	PASS
EGPRS1900	661	2	0.25042	0.3136	---	PASS
EGPRS1900	810	2	0.24927	0.3103	---	PASS

Test Graphs



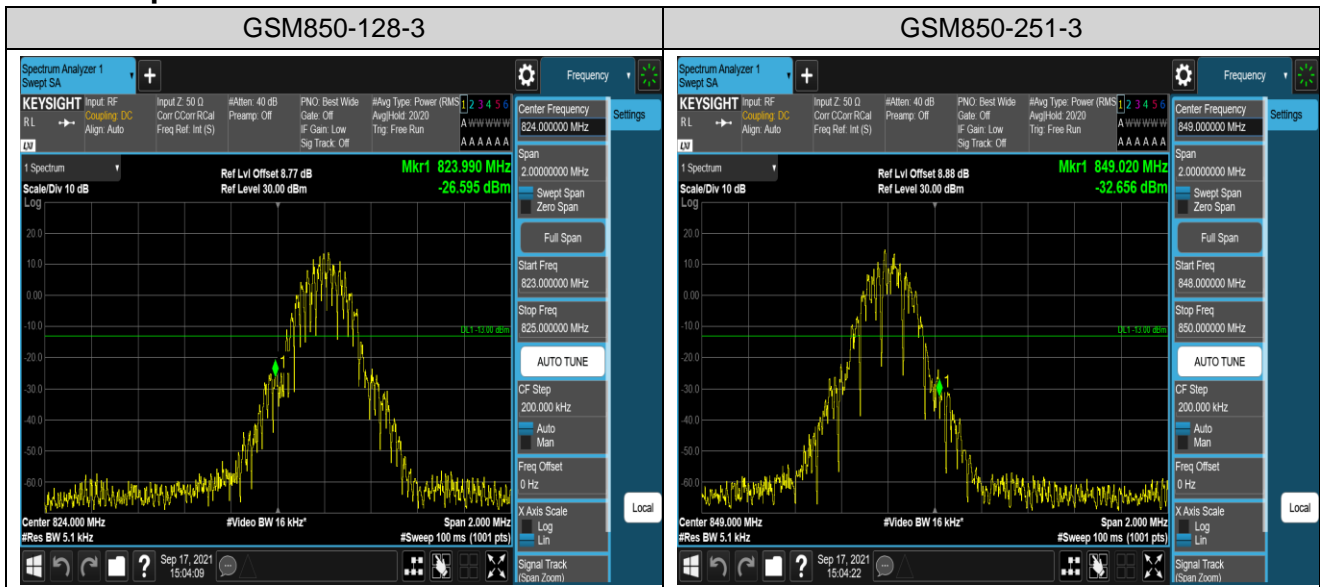


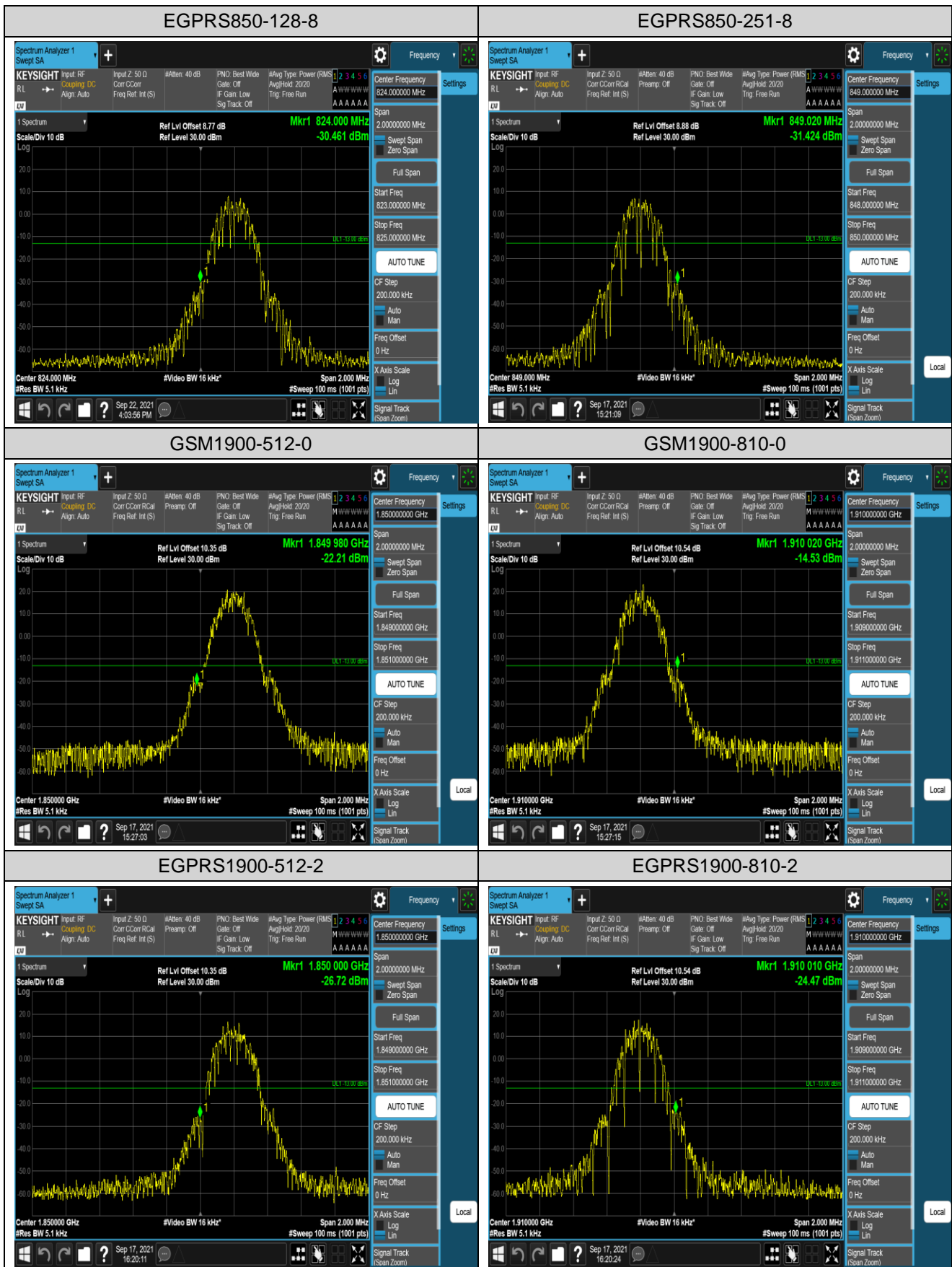
## Appendix D: Band Edge

### Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.99	-24.98	-13	PASS
GSM850	251	3	849.02	-23.89	-13	PASS
EGPRS850	128	8	823.20	-30.46	-13	PASS
EGPRS850	251	8	849.02	-30.38	-13	PASS
GSM1900	512	0	1849.98	-17.06	-13	PASS
GSM1900	810	0	1910.02	-14.53	-13	PASS
EGPRS1900	512	2	1850.00	-24.07	-13	PASS
EGPRS1900	810	2	1910.01	-18.72	-13	PASS

### Test Graphs







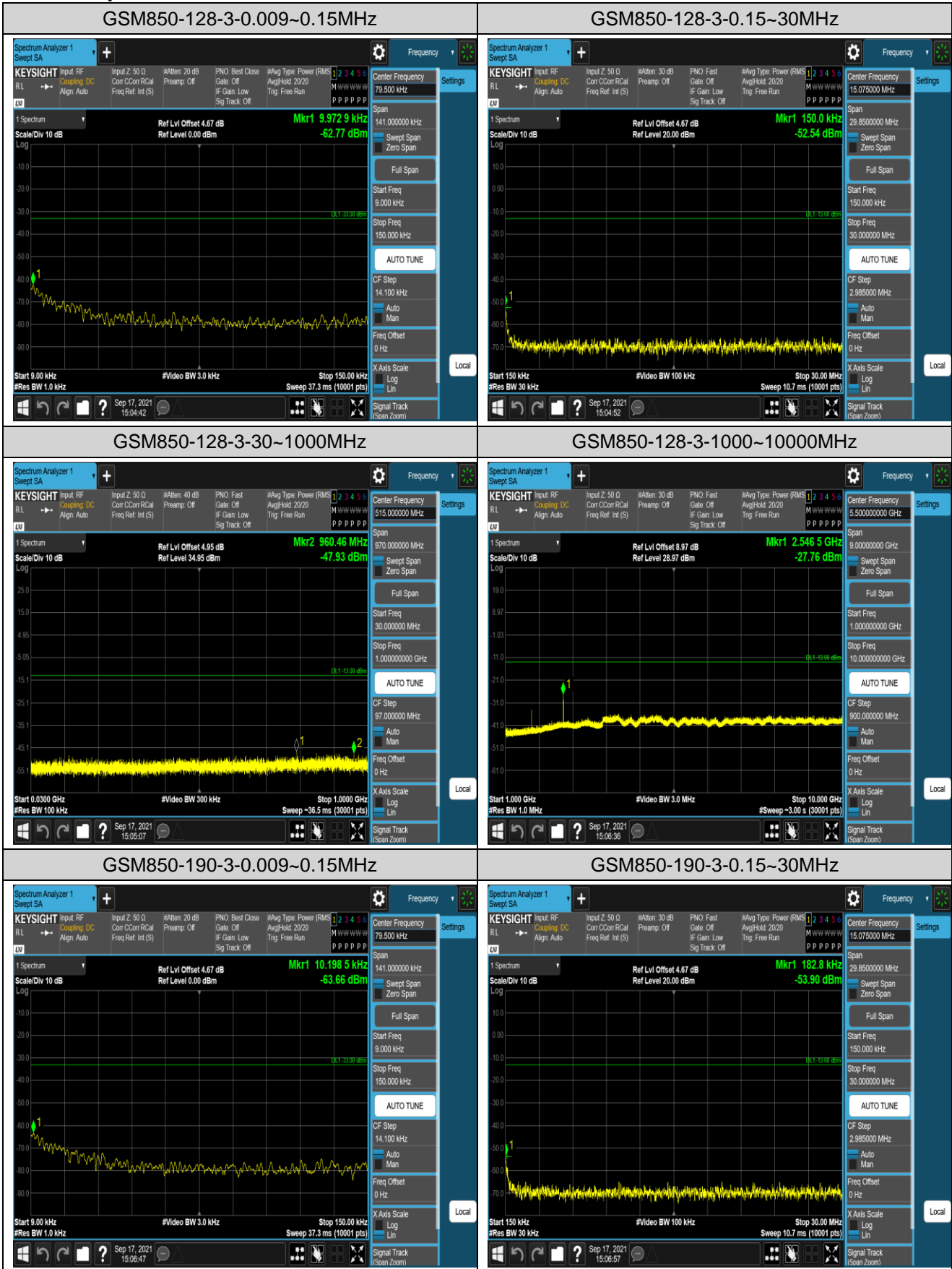
## Appendix E: Conducted Spurious Emission

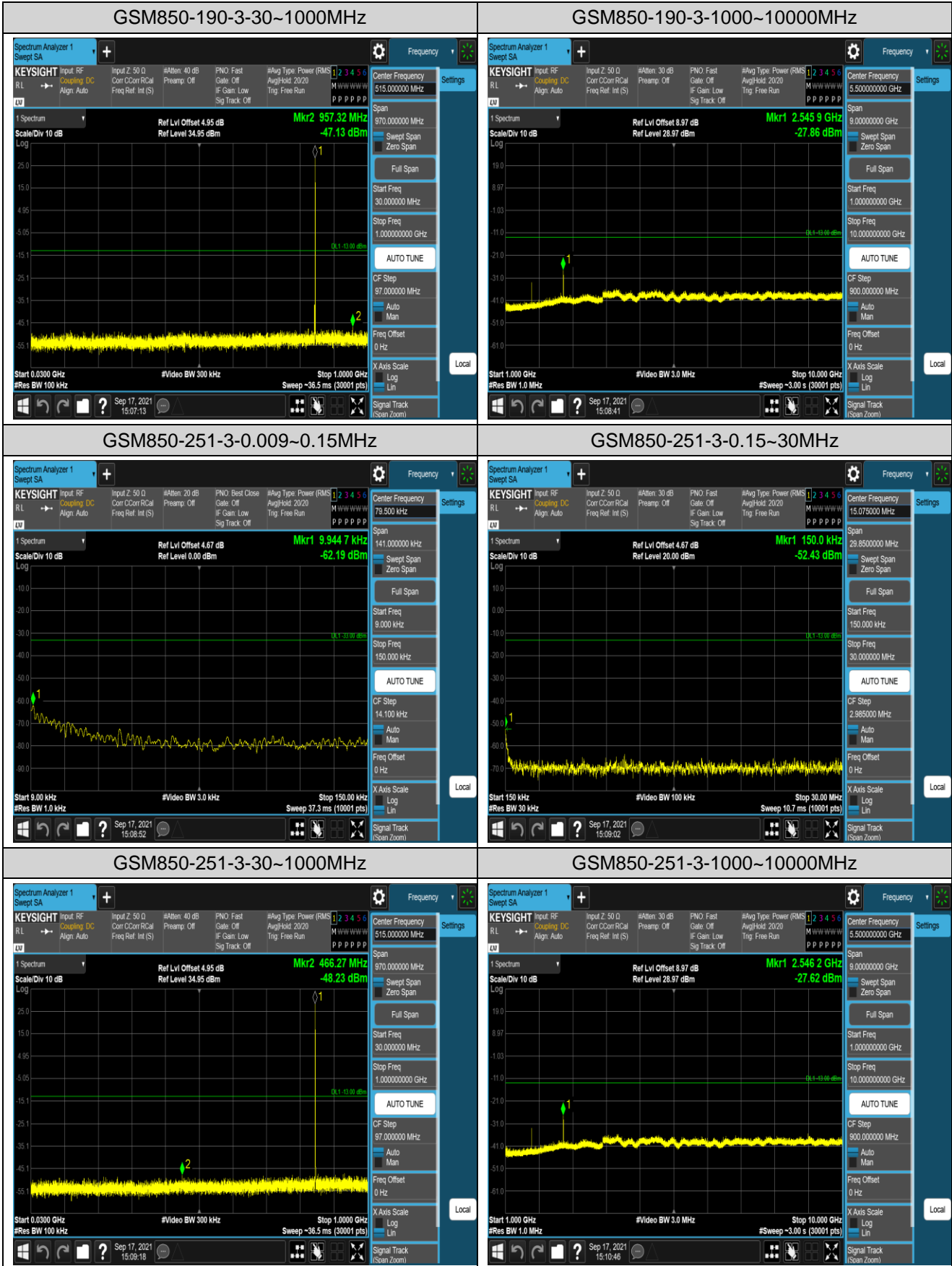
### Test Result

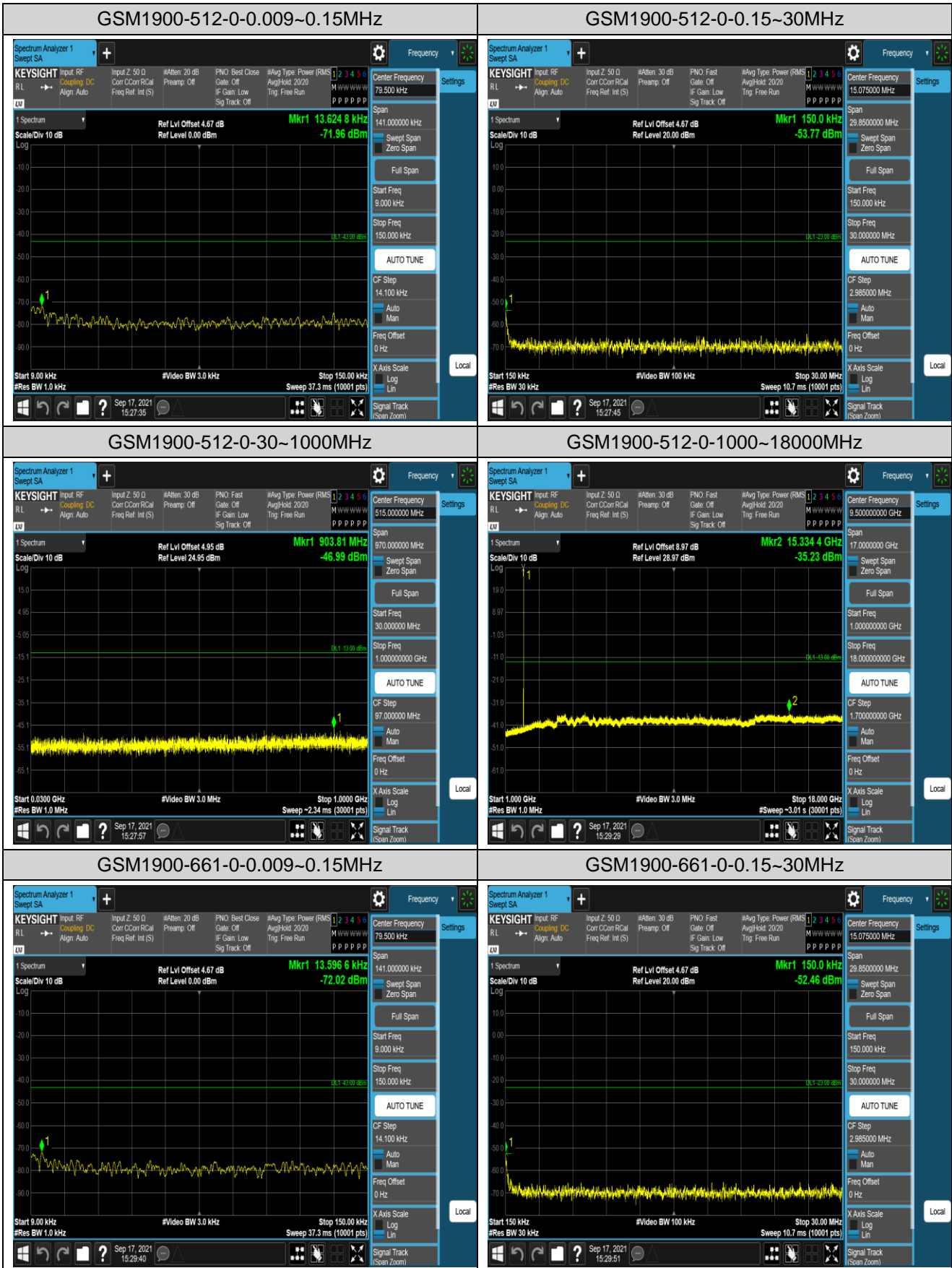
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-62.77	-33	PASS
GSM850	128	3	0.15~30MHz	0.15	-52.54	-13	PASS
GSM850	128	3	30~1000MHz	960.46	-47.93	-13	PASS
GSM850	128	3	1000~10000MHz	2546.5	-27.76	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-63.66	-33	PASS
GSM850	190	3	0.15~30MHz	0.18	-53.9	-13	PASS
GSM850	190	3	30~1000MHz	957.32	-47.13	-13	PASS
GSM850	190	3	1000~10000MHz	2545.9	-27.86	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-62.19	-33	PASS
GSM850	251	3	0.15~30MHz	0.15	-52.43	-13	PASS
GSM850	251	3	30~1000MHz	466.27	-48.23	-13	PASS
GSM850	251	3	1000~10000MHz	2546.2	-27.62	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-71.96	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-53.77	-23	PASS
GSM1900	512	0	30~1000MHz	903.81	-47	-13	PASS
GSM1900	512	0	1000~18000MHz	15334.4	-35.23	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-72.02	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-52.46	-23	PASS
GSM1900	661	0	30~1000MHz	420.39	-47.61	-13	PASS
GSM1900	661	0	1000~18000MHz	3980.67	-35.66	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-70.07	-43	PASS
GSM1900	810	0	0.15~30MHz	0.18	-54.4	-23	PASS
GSM1900	810	0	30~1000MHz	842.57	-47.65	-13	PASS
GSM1900	810	0	1000~18000MHz	17475.27	-35.16	-13	PASS

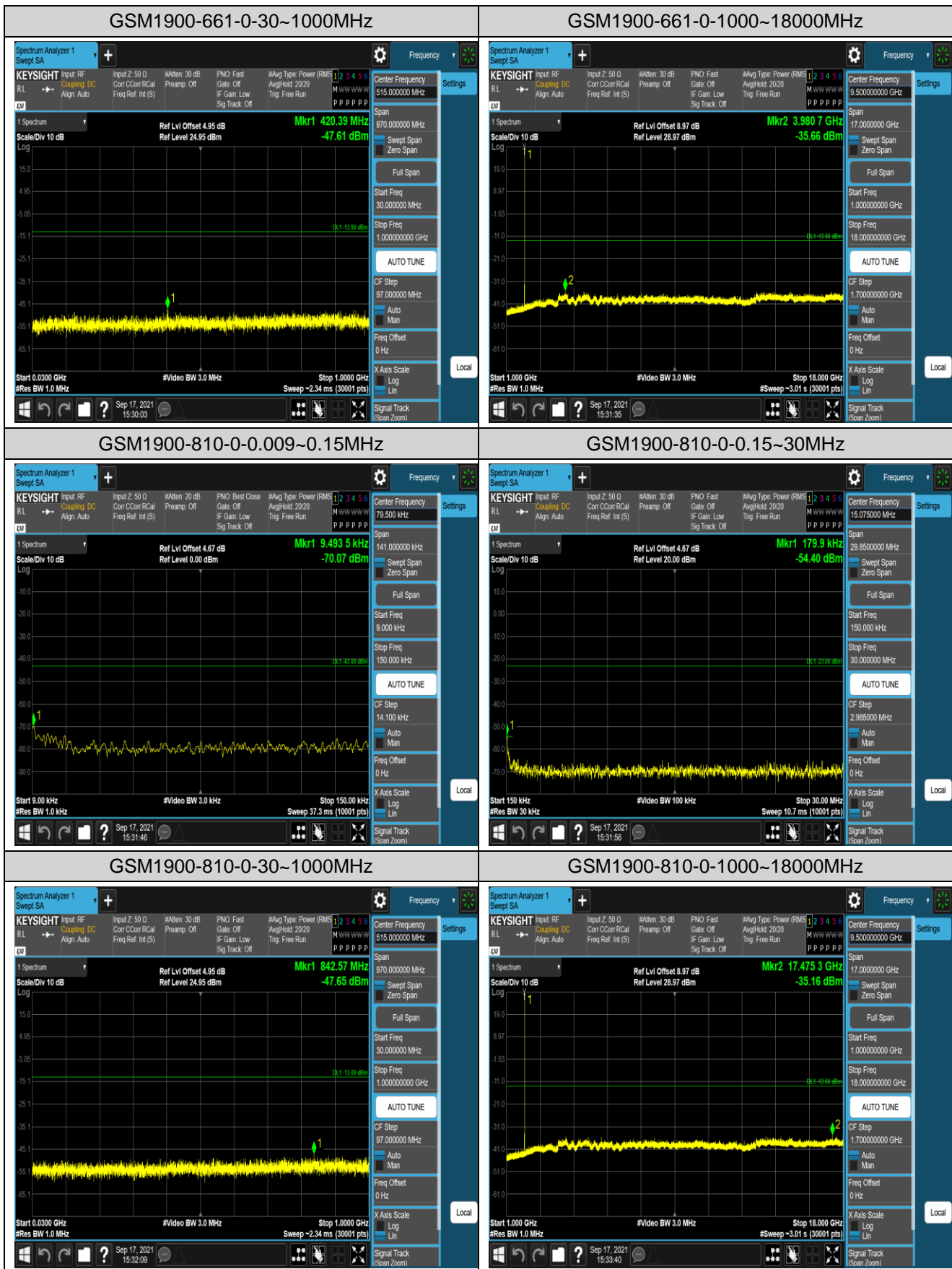
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.85	-30	-4.13	-0.004937	±2.5	Pass
	-20	-11.66	-0.013937		
	-10	-3.23	-0.003861		
	0	-2.91	-0.003478		
	10	-3.94	-0.004710		
	20	-3.94	-0.004710		
	30	-6.75	-0.008068		
	40	-7.55	-0.009025		
	50	-3.33	-0.003980		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-6.36	-0.007602	±2.5	Pass
	3.85	0.23	0.000275		
	4.40	-7.04	-0.008415		
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		
3.85	-30	-7.20	-0.008606	±2.5	Pass
	-20	-6.68	-0.007985		
	-10	-1.39	-0.001661		
	0	-5.17	-0.006180		
	10	-3.68	-0.004399		
	20	-1.00	-0.001195		
	30	-1.13	-0.001351		
	40	3.26	0.003897		
	50	2.00	0.002391		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-4.91	-0.005869	±2.5	Pass
	3.85	-7.62	-0.009108		
	4.40	-2.65	-0.003168		
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		
3.85	-30	-12.24	-0.006511	Within authorized band for PCS 1900	Pass
	-20	-19.15	-0.010186		
	-10	-11.01	-0.005856		
	0	-11.46	-0.006096		
	10	-9.07	-0.004824		
	20	-2.45	-0.001303		
	30	-4.13	-0.002197		
	40	-17.63	-0.009378		
	50	-3.45	-0.001835		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-10.94	-0.005819	Within authorized band for PCS 1900	Pass
	3.85	-4.42	-0.002351		
	4.40	-15.98	-0.008500		
<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		
3.85	-30	-12.37	-0.006580	Within authorized band for PCS 1900	Pass
	-20	-6.78	-0.003606		
	-10	-11.14	-0.005926		
	0	-10.59	-0.005633		
	10	-7.52	-0.004000		
	20	-32.38	-0.017223		
	30	-27.80	-0.014787		
	40	-21.95	-0.011676		
	50	-25.47	-0.013548		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-11.98	-0.006372	Within authorized band for PCS 1900	Pass
	3.85	-12.33	-0.006559		
	4.40	-16.08	-0.008553		
<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

