

## Appendix A: Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.19	29.34	38.45	PASS
GPRS850	128	5	2	31.21	27.36	38.45	PASS
GPRS850	128	5	3	29.33	25.48	38.45	PASS
GPRS850	128	5	4	26.93	23.08	38.45	PASS
GPRS850	190	5	1	33.32	29.47	38.45	PASS
GPRS850	190	5	2	31.21	27.36	38.45	PASS
GPRS850	190	5	3	29.34	25.49	38.45	PASS
GPRS850	190	5	4	26.96	23.11	38.45	PASS
GPRS850	251	5	1	33.19	29.34	38.45	PASS
GPRS850	251	5	2	31.03	27.18	38.45	PASS
GPRS850	251	5	3	29.17	25.32	38.45	PASS
GPRS850	251	5	4	26.81	22.96	38.45	PASS
GPRS1900	512	0	1	29.55	30.55	33.00	PASS
GPRS1900	512	0	2	27.49	28.49	33.00	PASS
GPRS1900	512	0	3	25.98	26.98	33.00	PASS
GPRS1900	512	0	4	23.88	24.88	33.00	PASS
GPRS1900	661	0	1	29.45	30.45	33.00	PASS
GPRS1900	661	0	2	27.26	28.26	33.00	PASS
GPRS1900	661	0	3	25.74	26.74	33.00	PASS
GPRS1900	661	0	4	23.64	24.64	33.00	PASS
GPRS1900	810	0	1	29.48	30.48	33.00	PASS
GPRS1900	810	0	2	26.99	27.99	33.00	PASS
GPRS1900	810	0	3	25.45	26.45	33.00	PASS
GPRS1900	810	0	4	23.34	24.34	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	26.02	22.17	38.45	PASS
EGPRS850	128	8	2	25.85	22.00	38.45	PASS
EGPRS850	128	8	3	24.56	20.71	38.45	PASS
EGPRS850	128	8	4	21.80	17.95	38.45	PASS
EGPRS850	190	8	1	26.43	22.58	38.45	PASS
EGPRS850	190	8	2	26.33	22.48	38.45	PASS
EGPRS850	190	8	3	25.27	21.42	38.45	PASS

EGPRS850	190	8	4	22.61	18.76	38.45	PASS
EGPRS850	251	8	1	25.99	22.14	38.45	PASS
EGPRS850	251	8	2	25.94	22.09	38.45	PASS
EGPRS850	251	8	3	24.85	21.00	38.45	PASS
EGPRS850	251	8	4	22.21	18.36	38.45	PASS
EGPRS1900	512	2	1	24.80	25.8	33.00	PASS
EGPRS1900	512	2	2	24.70	25.7	33.00	PASS
EGPRS1900	512	2	3	23.43	24.43	33.00	PASS
EGPRS1900	512	2	4	21.37	22.37	33.00	PASS
EGPRS1900	661	2	1	25.12	26.12	33.00	PASS
EGPRS1900	661	2	2	25.00	26.00	33.00	PASS
EGPRS1900	661	2	3	23.53	24.53	33.00	PASS
EGPRS1900	661	2	4	21.47	22.47	33.00	PASS
EGPRS1900	810	2	1	24.99	25.99	33.00	PASS
EGPRS1900	810	2	2	24.94	25.94	33.00	PASS
EGPRS1900	810	2	3	23.38	24.38	33.00	PASS
EGPRS1900	810	2	4	21.32	22.32	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)

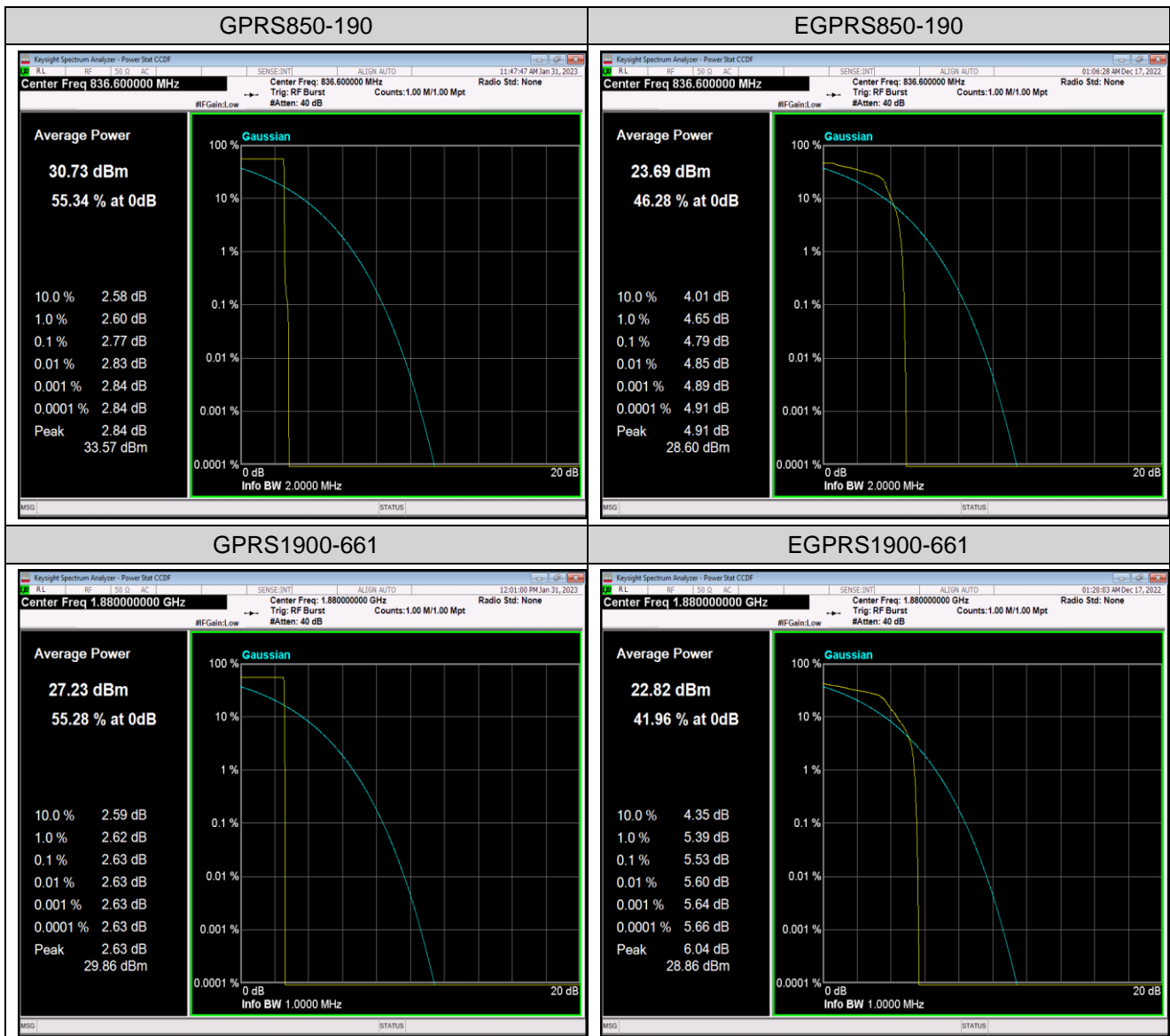
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GPRS850	190	5	2.77	13	PASS
EGPRS850	190	8	4.79	13	PASS
GPRS1900	661	0	2.63	13	PASS
EGPRS1900	661	2	5.53	13	PASS

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

### Test Graphs

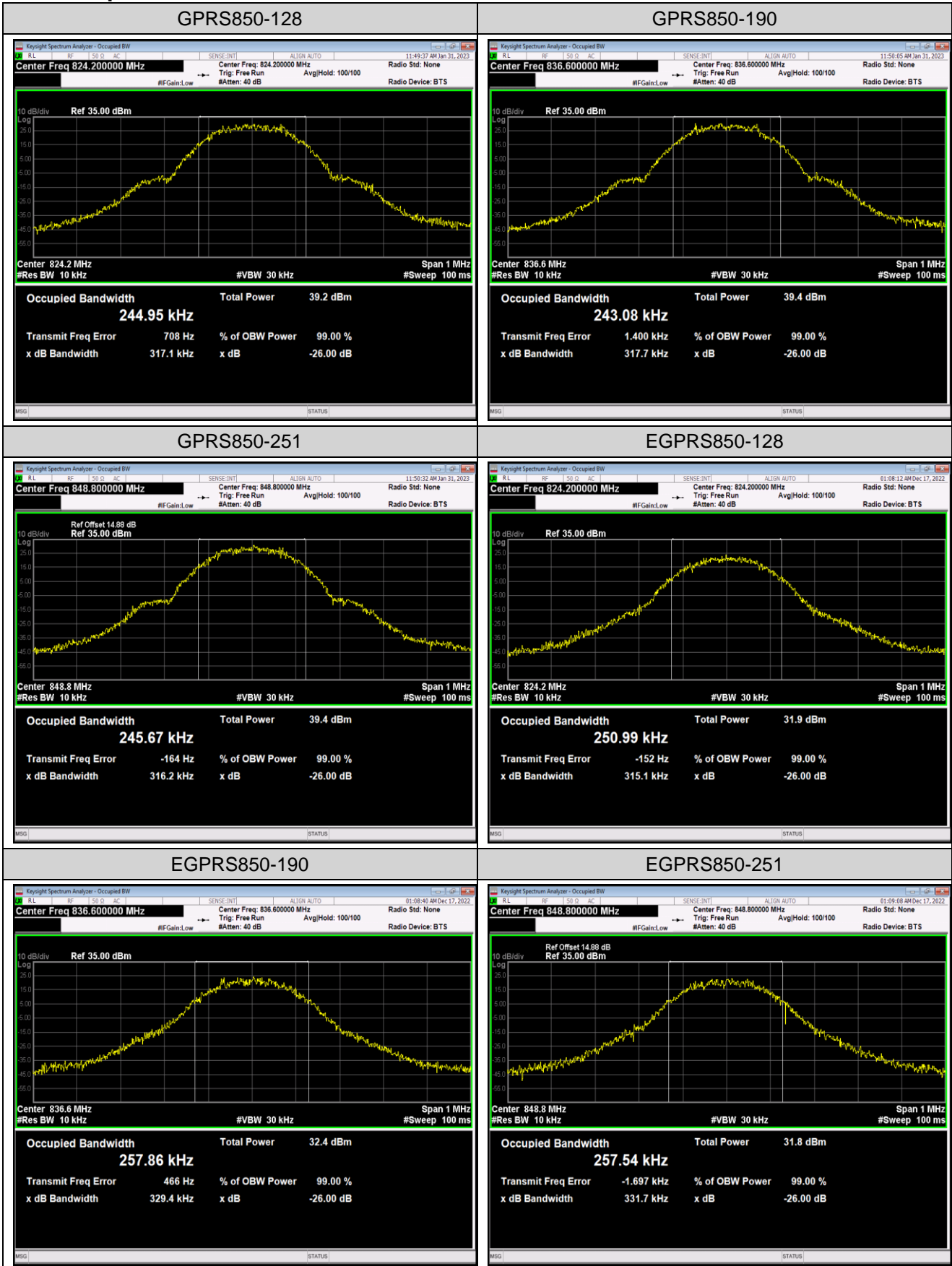


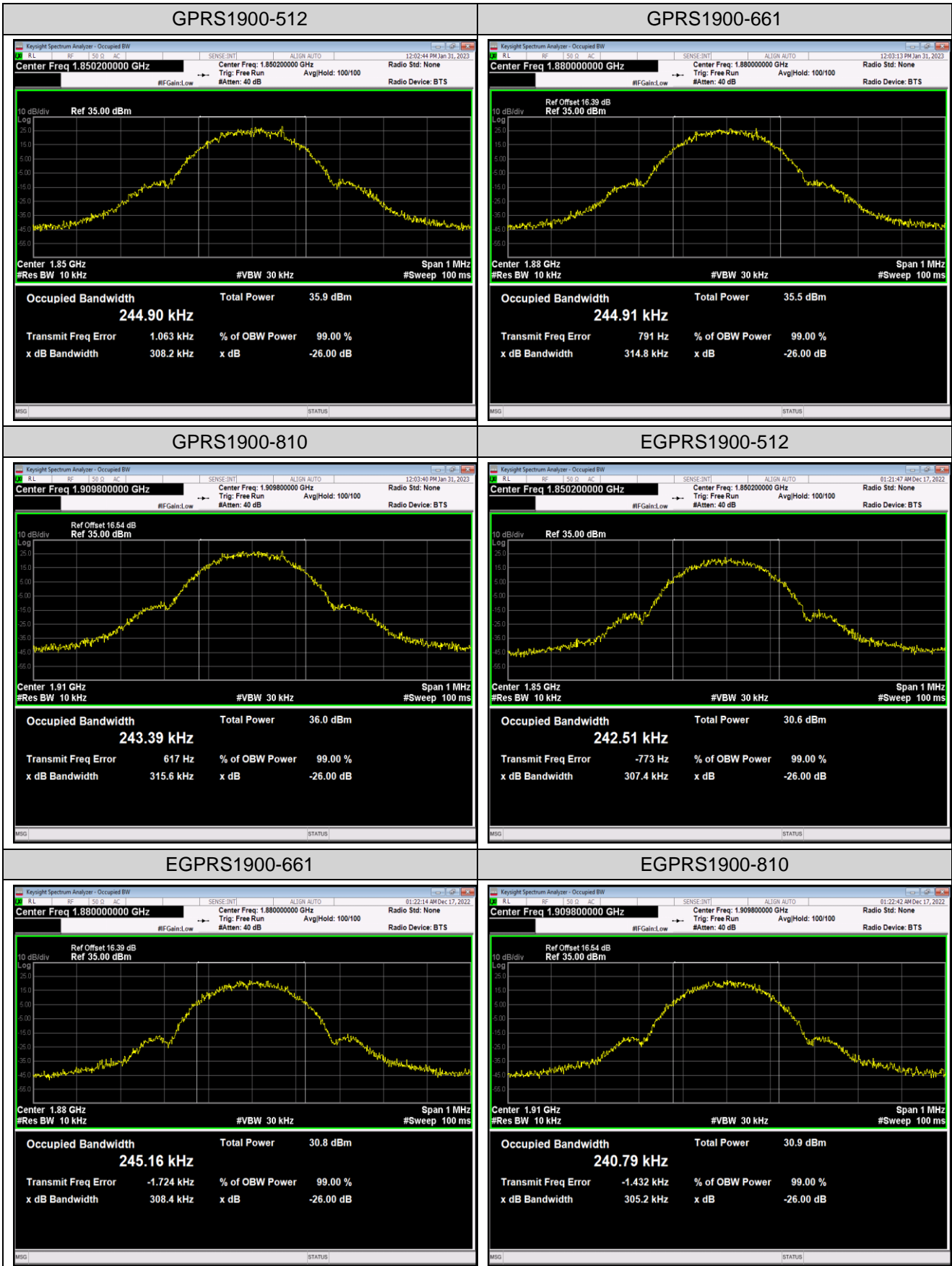
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	5	0.24495	0.3171	---	PASS
GPRS850	190	5	0.24308	0.3177	---	PASS
GPRS850	251	5	0.24567	0.3162	---	PASS
EGPRS850	128	8	0.25099	0.3151	---	PASS
EGPRS850	190	8	0.25786	0.3294	---	PASS
EGPRS850	251	8	0.25754	0.3317	---	PASS
GPRS1900	512	0	0.24490	0.3082	---	PASS
GPRS1900	661	0	0.24491	0.3148	---	PASS
GPRS1900	810	0	0.24339	0.3156	---	PASS
EGPRS1900	512	2	0.24251	0.3074	---	PASS
EGPRS1900	661	2	0.24516	0.3084	---	PASS
EGPRS1900	810	2	0.24079	0.3052	---	PASS

Test Graphs



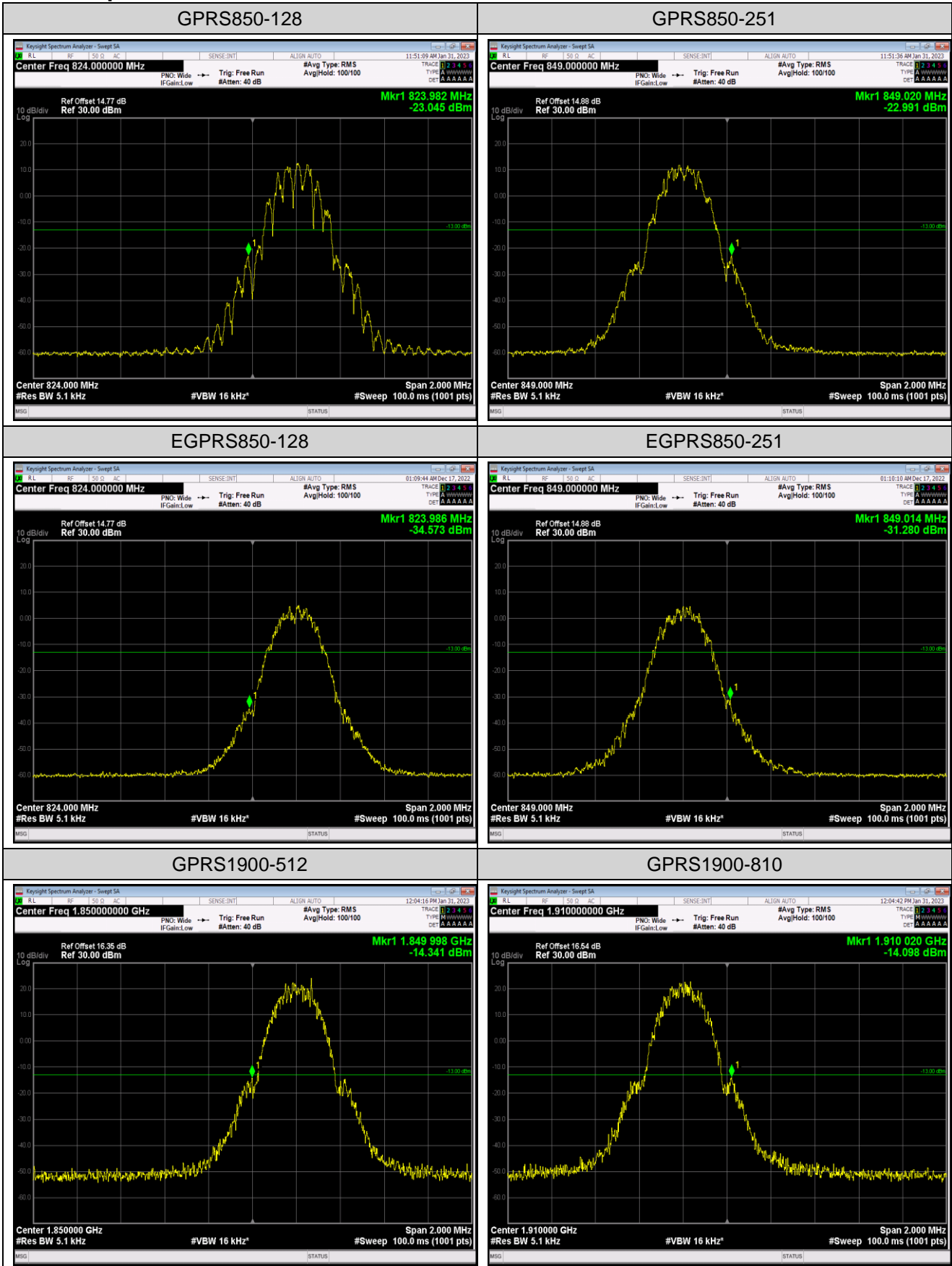


## Appendix D: Band Edge

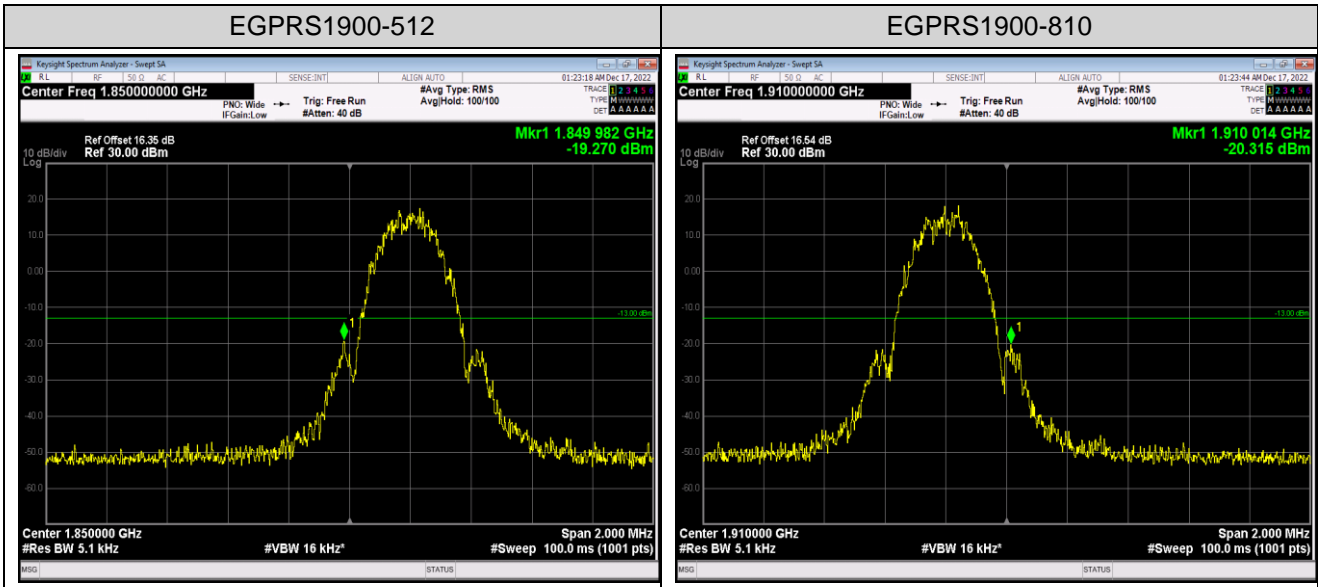
### Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	5	823.98	-23.05	-13	PASS
GPRS850	251	5	849.02	-22.99	-13	PASS
EGPRS850	128	8	823.99	-34.57	-13	PASS
EGPRS850	251	8	849.01	-31.28	-13	PASS
GPRS1900	512	0	1850.00	-14.34	-13	PASS
GPRS1900	810	0	1910.02	-14.10	-13	PASS
EGPRS1900	512	2	1849.98	-19.27	-13	PASS
EGPRS1900	810	2	1910.01	-20.32	-13	PASS

Test Graphs







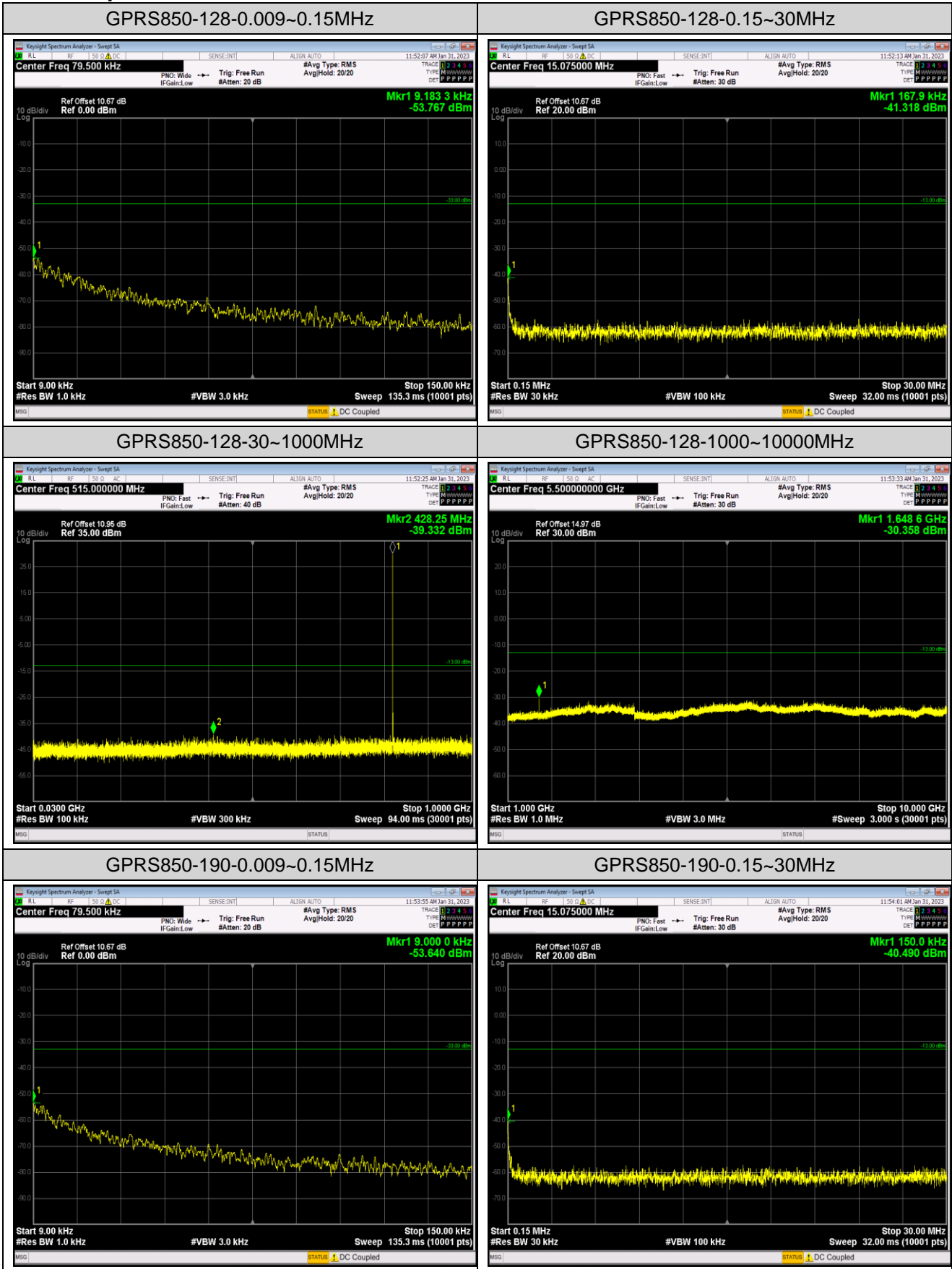
## Appendix E: Conducted Spurious Emission

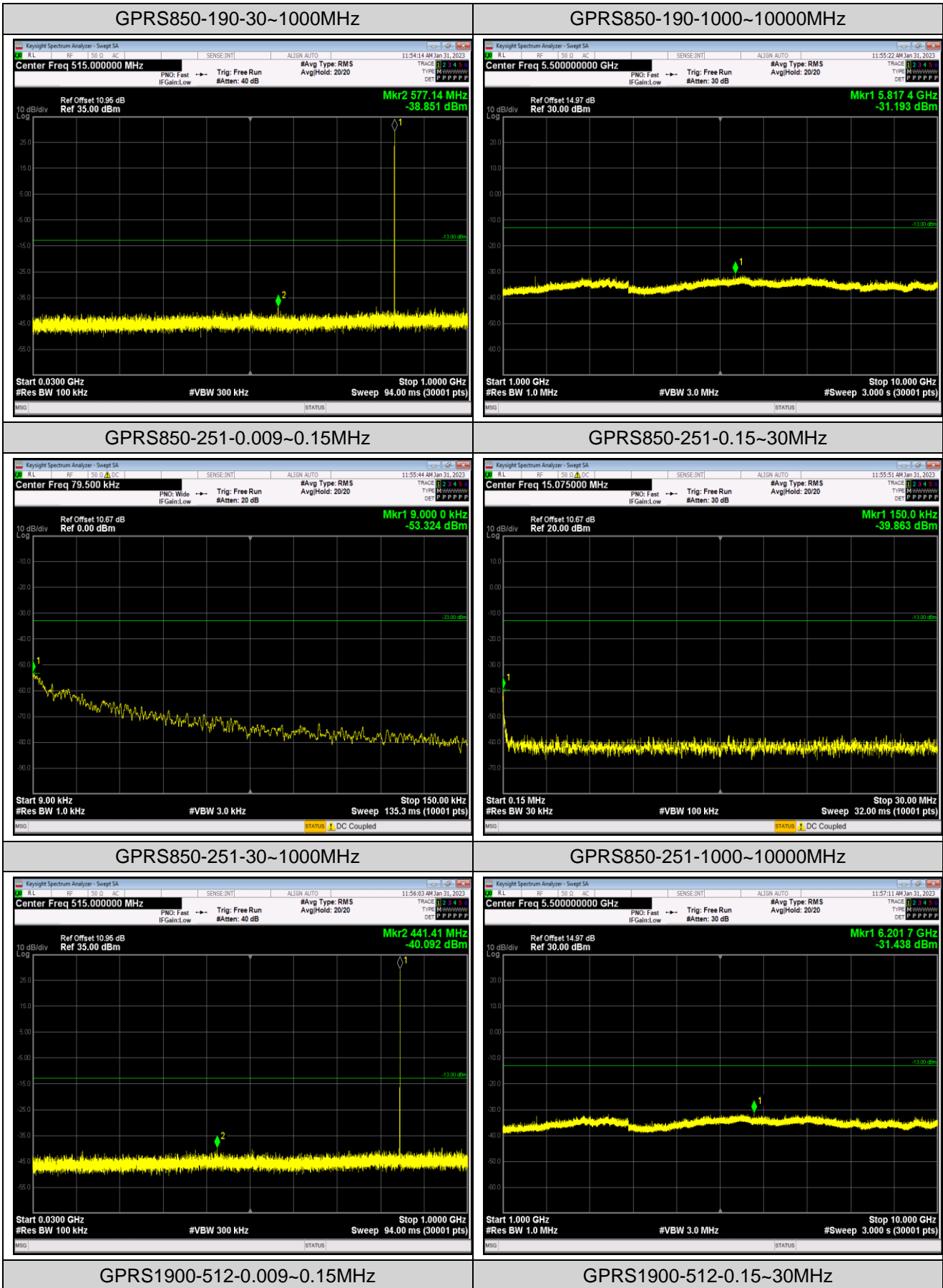
### Test Result

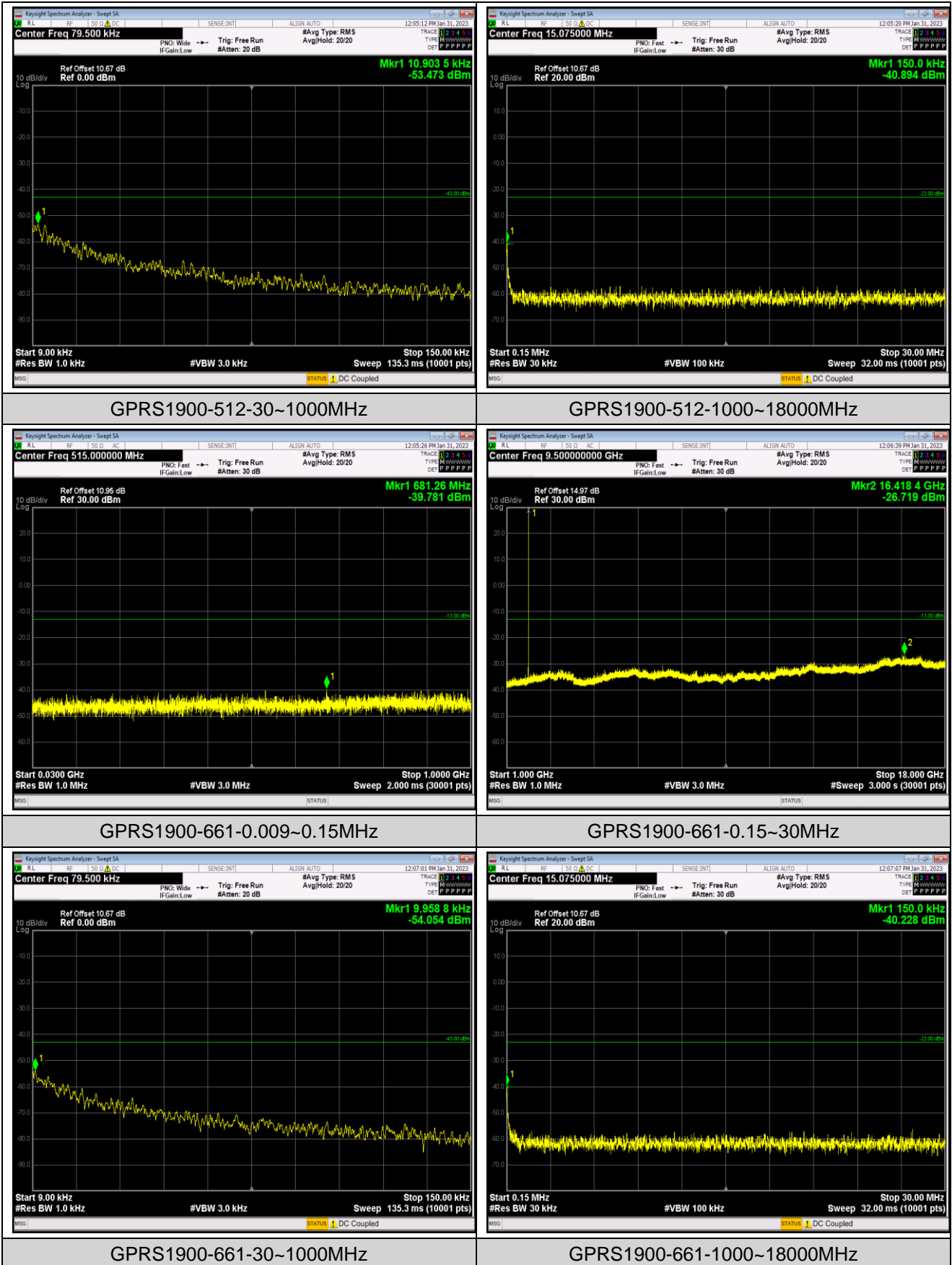
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	5	0.009~0.15MHz	0.01	-53.77	-33	PASS
GPRS850	128	5	0.15~30MHz	0.17	-41.32	-13	PASS
GPRS850	128	5	30~1000MHz	428.25	-39.33	-13	PASS
GPRS850	128	5	1000~10000MHz	1648.6	-30.36	-13	PASS
GPRS850	190	5	0.009~0.15MHz	0.01	-53.64	-33	PASS
GPRS850	190	5	0.15~30MHz	0.15	-40.49	-13	PASS
GPRS850	190	5	30~1000MHz	577.14	-38.85	-13	PASS
GPRS850	190	5	1000~10000MHz	5817.4	-31.19	-13	PASS
GPRS850	251	5	0.009~0.15MHz	0.01	-53.32	-33	PASS
GPRS850	251	5	0.15~30MHz	0.15	-39.86	-13	PASS
GPRS850	251	5	30~1000MHz	441.41	-40.09	-13	PASS
GPRS850	251	5	1000~10000MHz	6201.7	-31.44	-13	PASS
GPRS1900	512	0	0.009~0.15MHz	0.01	-53.47	-43	PASS
GPRS1900	512	0	0.15~30MHz	0.15	-40.89	-23	PASS
GPRS1900	512	0	30~1000MHz	681.26	-39.78	-13	PASS
GPRS1900	512	0	1000~18000MHz	16418.43	-26.72	-13	PASS
GPRS1900	661	0	0.009~0.15MHz	0.01	-54.05	-43	PASS
GPRS1900	661	0	0.15~30MHz	0.15	-40.23	-23	PASS
GPRS1900	661	0	30~1000MHz	892.17	-39.7	-13	PASS
GPRS1900	661	0	1000~18000MHz	15825.13	-26.47	-13	PASS
GPRS1900	810	0	0.009~0.15MHz	0.01	-53.72	-43	PASS
GPRS1900	810	0	0.15~30MHz	0.17	-41.3	-23	PASS
GPRS1900	810	0	30~1000MHz	742.01	-39.55	-13	PASS
GPRS1900	810	0	1000~18000MHz	15608.1	-26.71	-13	PASS

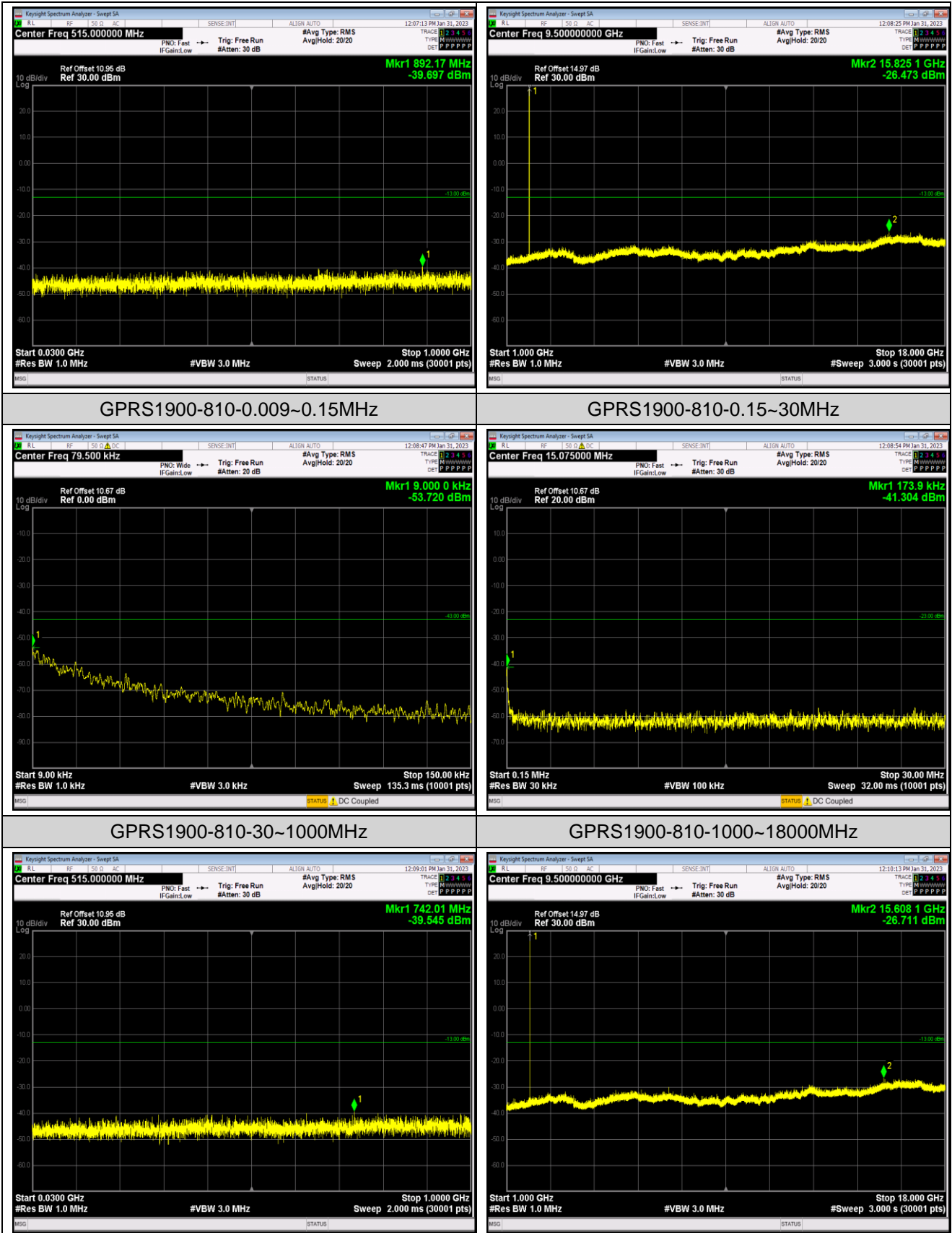
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









## Appendix F: Frequency Stability

### Test Result

Reference Frequency: GPRS850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	13.20	0.015778	±2.5	Pass
	-20	11.33	0.013543		
	-10	8.39	0.010029		
	0	15.63	0.018683		
	10	8.81	0.010531		
	20	12.07	0.014427		
	30	12.56	0.015013		
	40	6.20	0.007411		
	50	11.04	0.013196		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	14.75	0.017631	±2.5	Pass
	3.70	8.98	0.010734		
	4.07	13.33	0.015934		
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	2.55	0.003048	±2.5	Pass
	-20	4.29	0.005128		
	-10	7.78	0.009300		
	0	6.55	0.007829		
	10	6.04	0.007220		
	20	8.72	0.010423		
	30	7.59	0.009072		
	40	2.81	0.003359		
	50	6.36	0.007602		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	5.65	0.006754	±2.5	Pass
	3.70	5.55	0.006634		
	4.07	2.81	0.003359		
Remark: All channel had been tested, but only the worst case data displayed in this report.					



Reference Frequency: GPRS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	17.69	0.009410	Within authorized band for PCS 1900	Pass
	-20	7.68	0.004085		
	-10	7.72	0.004106		
	0	9.75	0.005186		
	10	13.46	0.007160		
	20	19.21	0.010218		
	30	19.02	0.010117		
	40	10.72	0.005702		
	50	0.97	0.000516		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	6.26	0.003330	Within authorized band for PCS 1900	Pass
	3.70	6.26	0.003330		
	4.07	19.50	0.010372		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	0.74	0.000394	Within authorized band for PCS 1900	Pass
	-20	3.07	0.001633		
	-10	7.30	0.003883		
	0	11.17	0.005941		
	10	14.40	0.007660		
	20	19.05	0.010133		
	30	10.65	0.005665		
	40	16.24	0.008638		
	50	18.95	0.010080		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	2.45	0.001303	Within authorized band for PCS 1900	Pass
	3.70	3.49	0.001856		
	4.07	-4.23	-0.002250		
<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
GPRS850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GPRS1900	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

