

## 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	33.35	29.1	38.5	PASS
GSM850	190	3	33.50	29.25	38.5	PASS
GSM850	251	3	33.32	29.07	38.5	PASS
GSM1900	512	0	30.17	28.47	33	PASS
GSM1900	661	0	30.14	28.44	33	PASS
GSM1900	810	0	29.89	28.19	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	33.37	29.12	38.5	PASS
GPRS850	128	3	2	32.38	28.13	38.5	PASS
GPRS850	128	3	3	30.52	26.27	38.5	PASS
GPRS850	128	3	4	29.34	25.09	38.5	PASS
GPRS850	190	3	1	33.46	29.21	38.5	PASS
GPRS850	190	3	2	32.49	28.24	38.5	PASS
GPRS850	190	3	3	30.46	26.21	38.5	PASS
GPRS850	190	3	4	29.45	25.20	38.5	PASS
GPRS850	251	3	1	33.30	29.05	38.5	PASS
GPRS850	251	3	2	32.21	27.96	38.5	PASS
GPRS850	251	3	3	30.38	26.13	38.5	PASS
GPRS850	251	3	4	29.36	25.11	38.5	PASS
GPRS1900	512	0	1	30.19	28.49	33	PASS
GPRS1900	512	0	2	29.21	27.51	33	PASS
GPRS1900	512	0	3	27.18	25.48	33	PASS
GPRS1900	512	0	4	26.07	24.37	33	PASS
GPRS1900	661	0	1	30.14	28.44	33	PASS
GPRS1900	661	0	2	29.20	27.50	33	PASS
GPRS1900	661	0	3	27.18	25.48	33	PASS
GPRS1900	661	0	4	26.07	24.37	33	PASS
GPRS1900	810	0	1	29.89	28.19	33	PASS
GPRS1900	810	0	2	28.97	27.27	33	PASS
GPRS1900	810	0	3	26.97	25.27	33	PASS
GPRS1900	810	0	4	25.89	24.19	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.57	23.32	38.5	PASS
EGPRS850	128	8	2	26.33	22.08	38.5	PASS
EGPRS850	128	8	3	24.06	19.81	38.5	PASS
EGPRS850	128	8	4	22.75	18.5	38.5	PASS
EGPRS850	190	8	1	27.19	22.94	38.5	PASS
EGPRS850	190	8	2	26.16	21.91	38.5	PASS
EGPRS850	190	8	3	23.94	19.69	38.5	PASS
EGPRS850	190	8	4	22.61	18.36	38.5	PASS
EGPRS850	251	8	1	27.39	23.14	38.5	PASS
EGPRS850	251	8	2	26.30	22.05	38.5	PASS
EGPRS850	251	8	3	24.06	19.81	38.5	PASS
EGPRS850	251	8	4	22.68	18.43	38.5	PASS
EGPRS1900	512	2	1	26.18	24.48	33	PASS
EGPRS1900	512	2	2	25.21	23.51	33	PASS
EGPRS1900	512	2	3	23.31	21.61	33	PASS
EGPRS1900	512	2	4	22.26	20.56	33	PASS
EGPRS1900	661	2	1	26.12	24.42	33	PASS
EGPRS1900	661	2	2	25.26	23.56	33	PASS
EGPRS1900	661	2	3	23.33	21.63	33	PASS
EGPRS1900	661	2	4	22.27	20.57	33	PASS
EGPRS1900	810	2	1	26.26	24.56	33	PASS
EGPRS1900	810	2	2	25.39	23.69	33	PASS
EGPRS1900	810	2	3	23.50	21.8	33	PASS
EGPRS1900	810	2	4	22.42	20.72	33	PASS

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

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

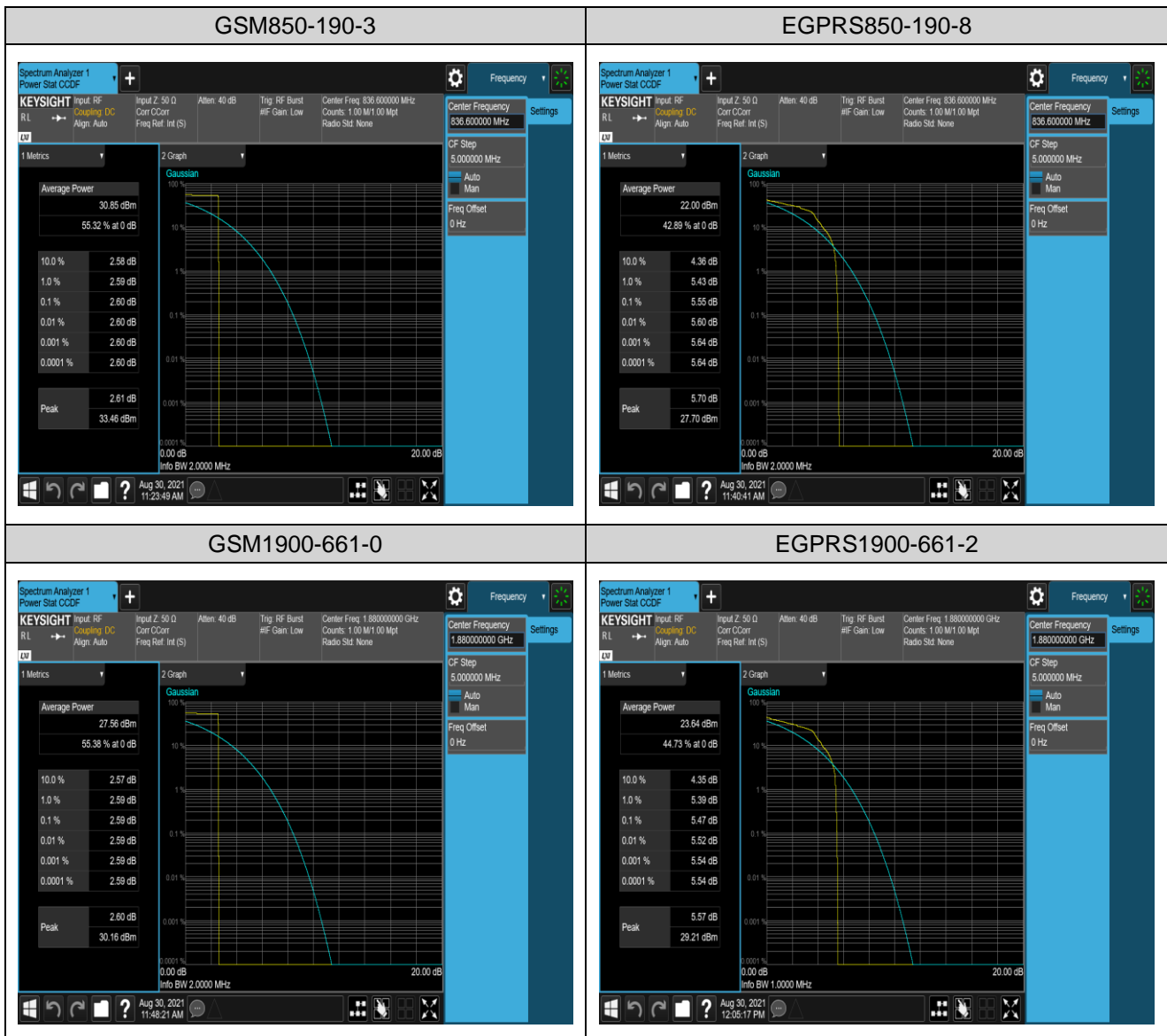
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.6	13	PASS
EGPRS850	190	8	5.55	13	PASS
GSM1900	661	0	2.59	13	PASS
EGPRS1900	661	2	5.47	13	PASS

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

### Test Graphs

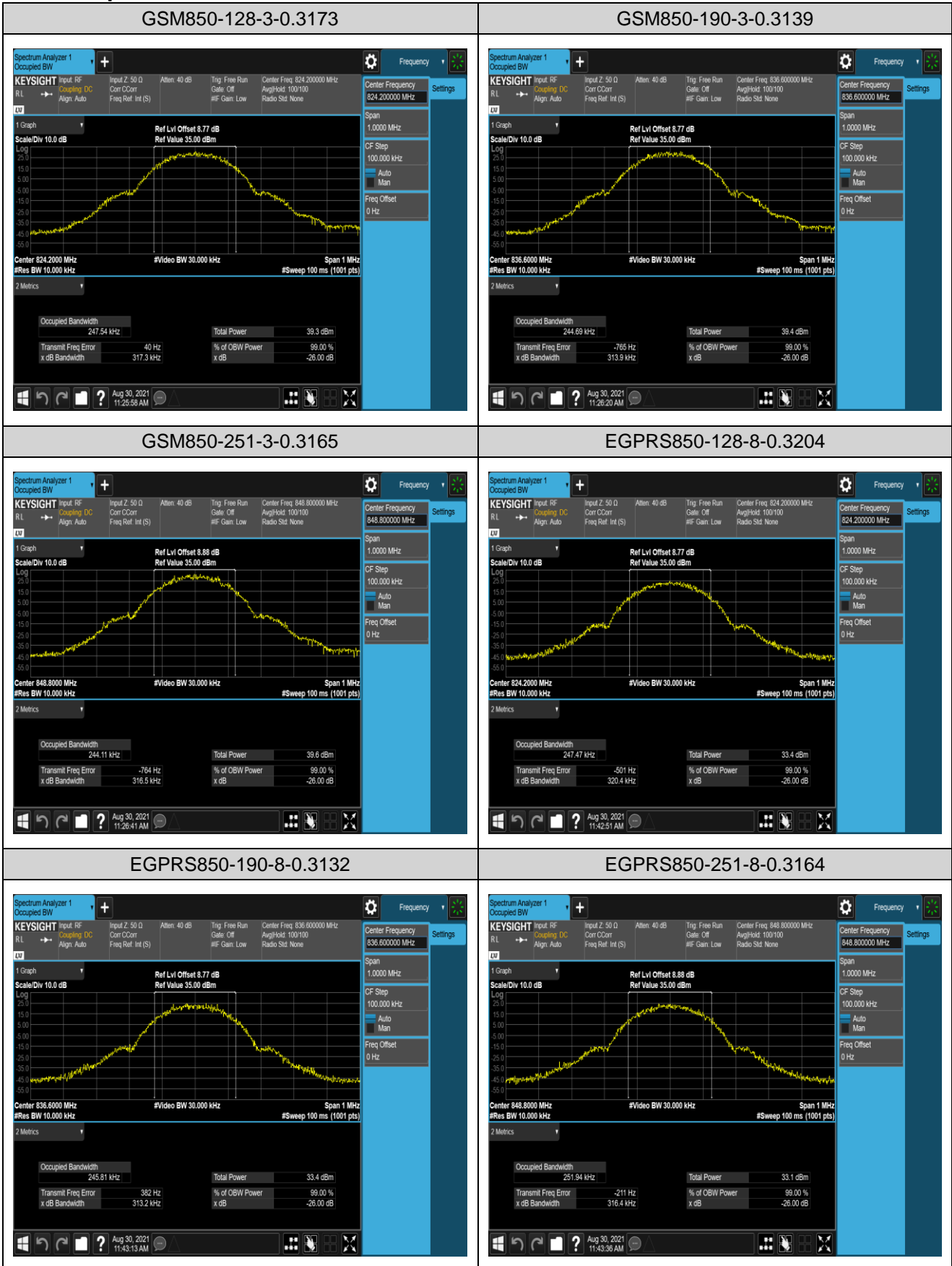


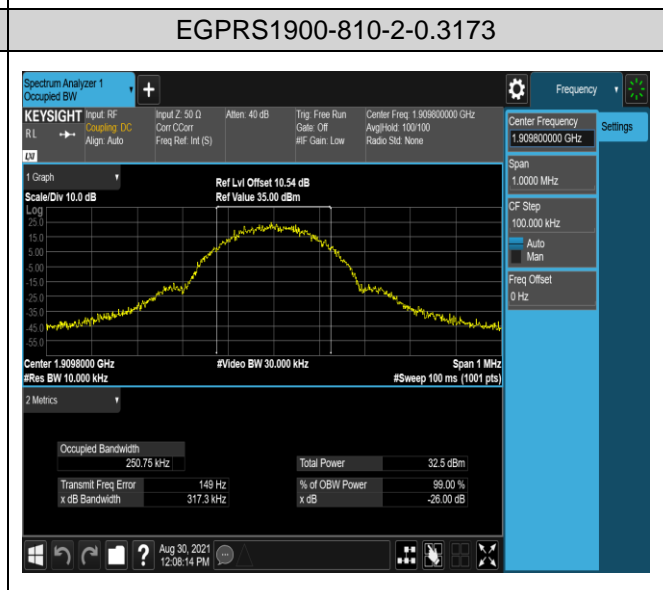
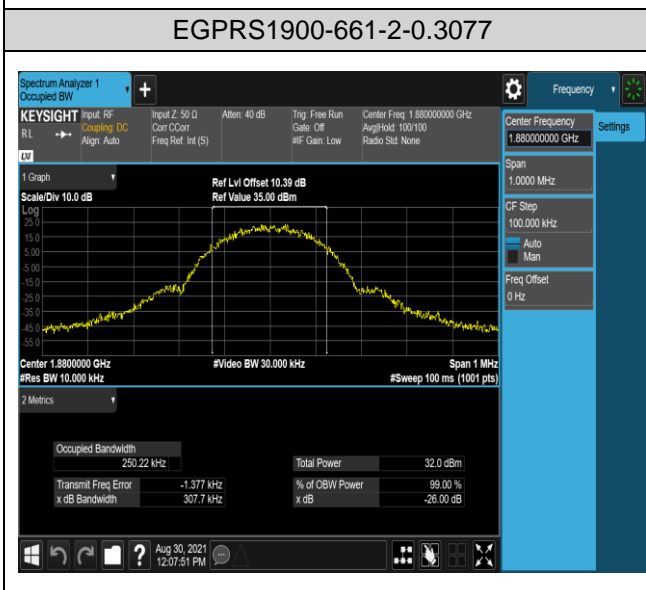
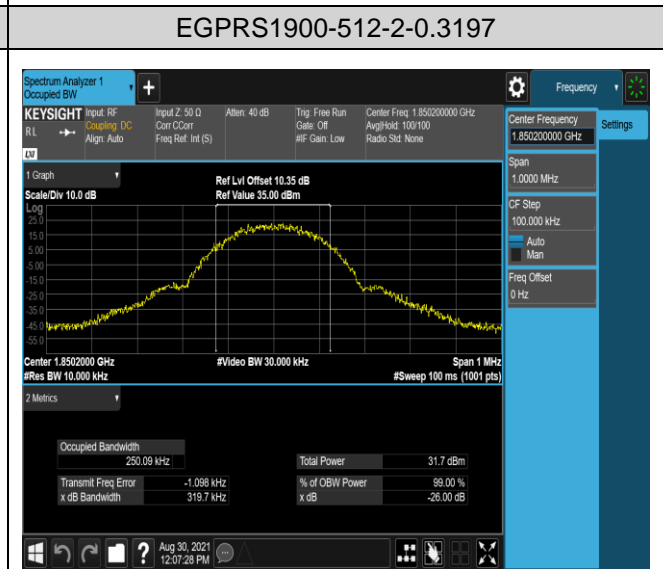
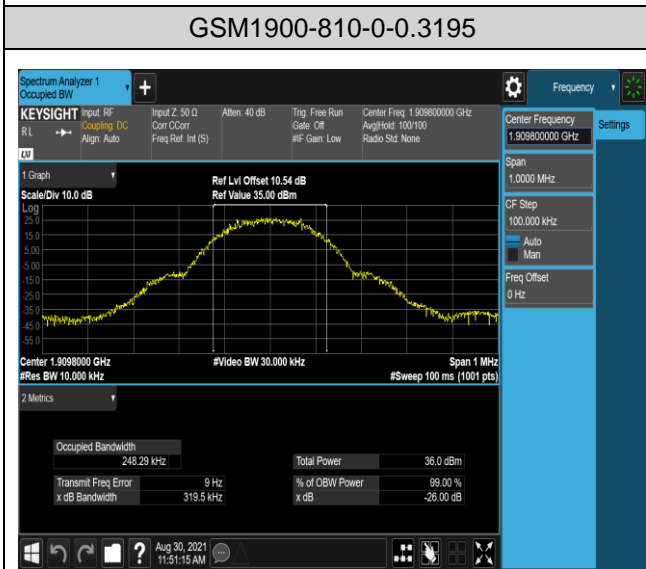
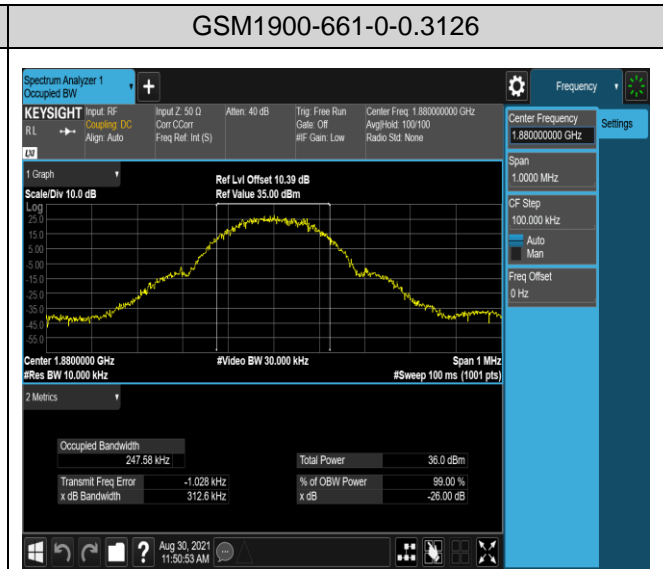
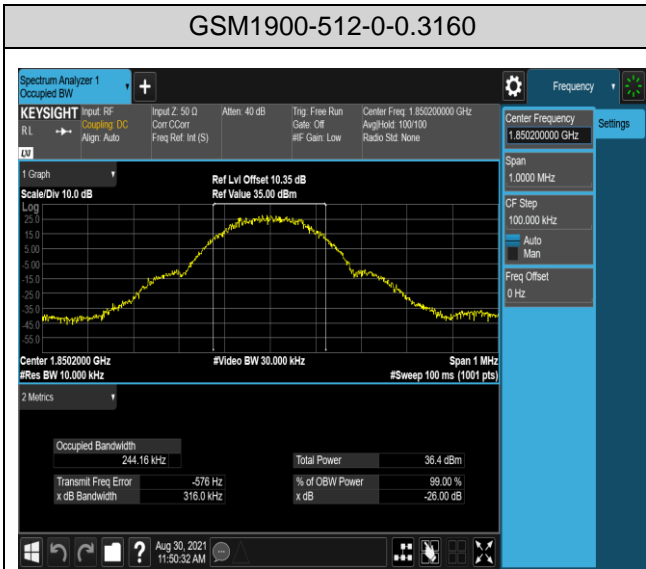
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24754	0.3173	---	PASS
GSM850	190	3	0.24469	0.3139	---	PASS
GSM850	251	3	0.24411	0.3165	---	PASS
EGPRS850	128	8	0.24747	0.3204	---	PASS
EGPRS850	190	8	0.24581	0.3132	---	PASS
EGPRS850	251	8	0.25194	0.3164	---	PASS
GSM1900	512	0	0.24416	0.3160	---	PASS
GSM1900	661	0	0.24758	0.3126	---	PASS
GSM1900	810	0	0.24829	0.3195	---	PASS
EGPRS1900	512	2	0.25009	0.3197	---	PASS
EGPRS1900	661	2	0.25022	0.3077	---	PASS
EGPRS1900	810	2	0.25075	0.3173	---	PASS

Test Graphs

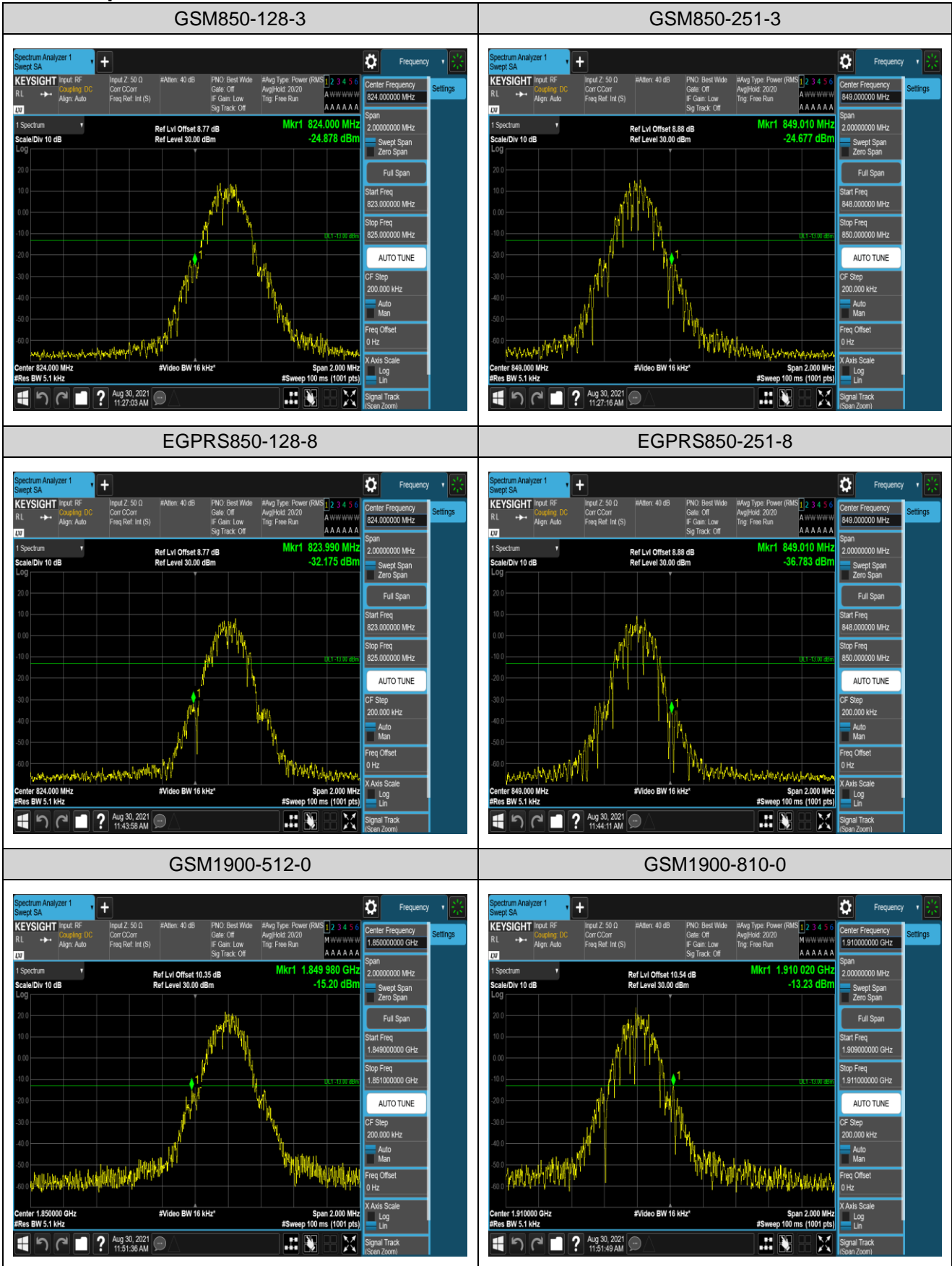




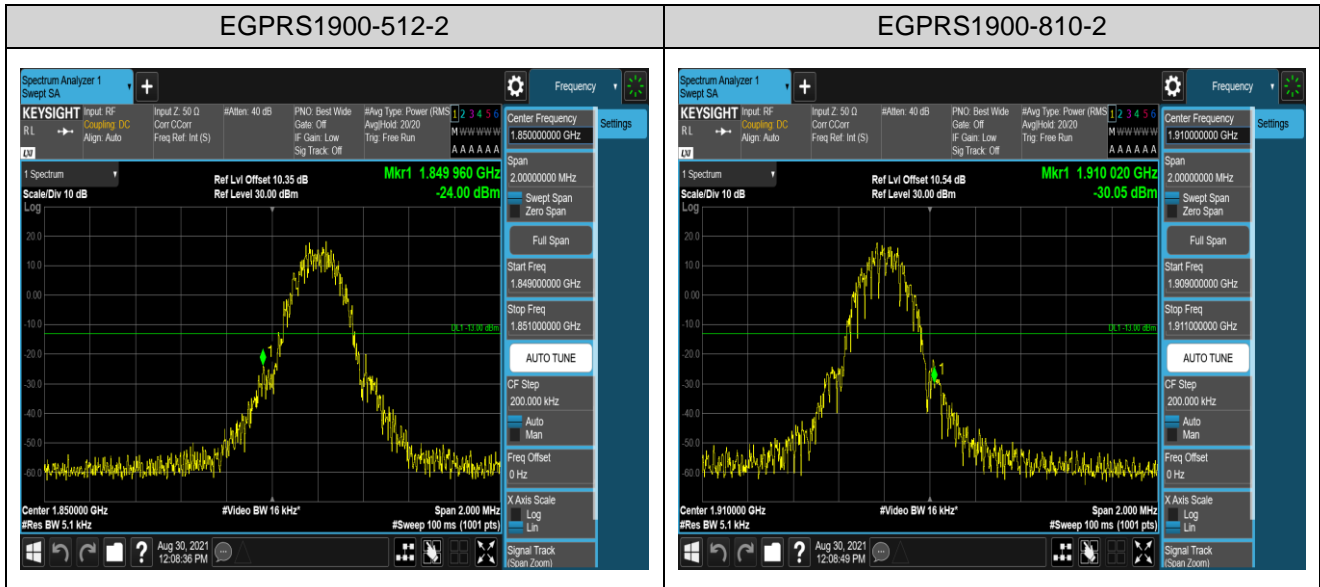
**Appendix D: Band Edge****Test Result**

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	824.00	-20.89	-13	PASS
GSM850	251	3	849.01	-22.96	-13	PASS
EGPRS850	128	8	823.99	-31.68	-13	PASS
EGPRS850	251	8	849.01	-32.67	-13	PASS
GSM1900	512	0	1849.98	-15.20	-13	PASS
GSM1900	810	0	1910.02	-13.23	-13	PASS
EGPRS1900	512	2	1849.96	-23.76	-13	PASS
EGPRS1900	810	2	1910.02	-21.93	-13	PASS

Test Graphs







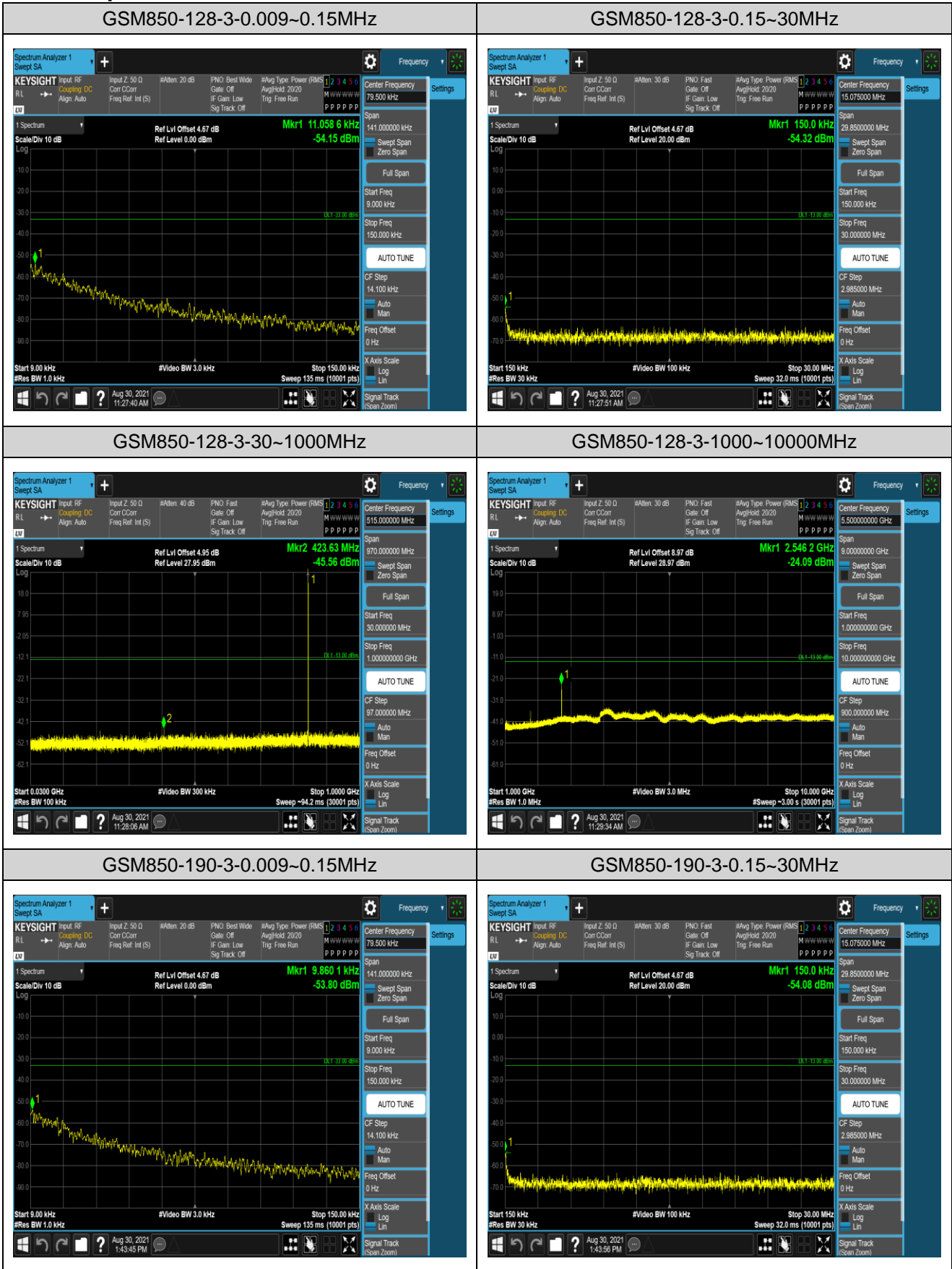
## Appendix E: Conducted Spurious Emission

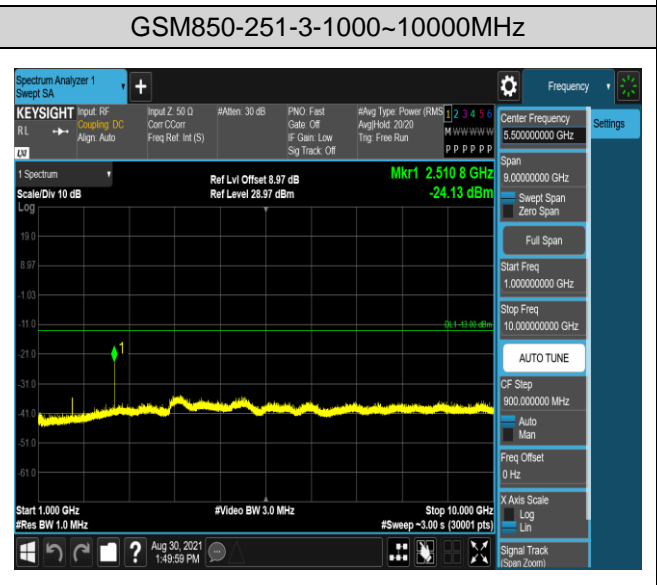
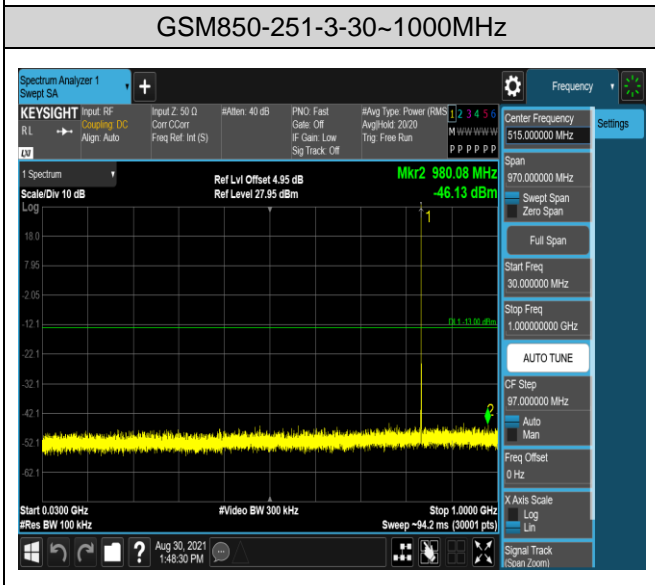
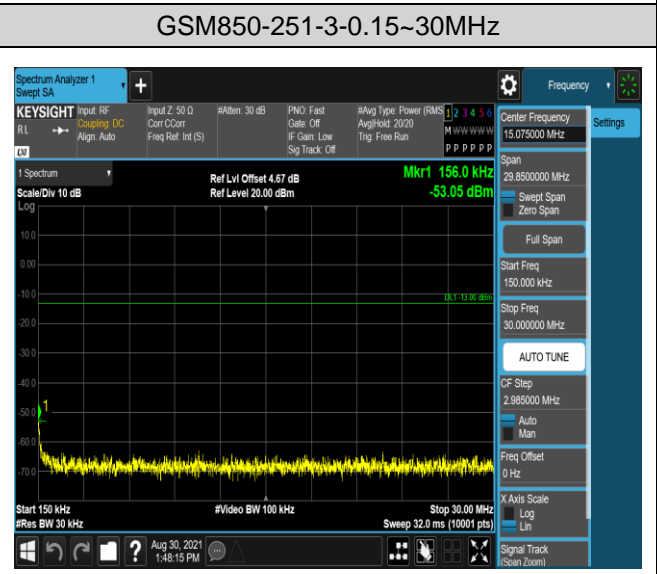
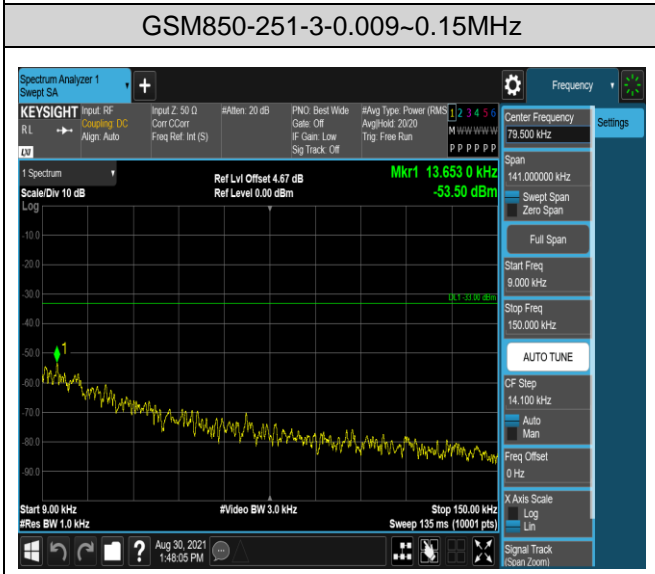
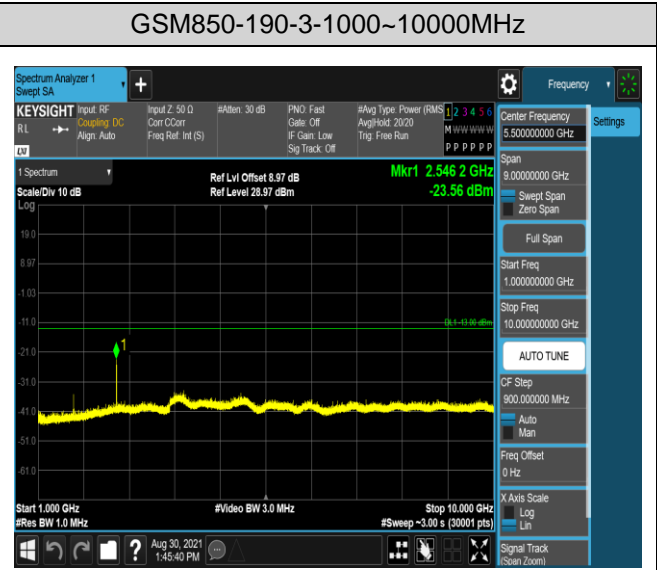
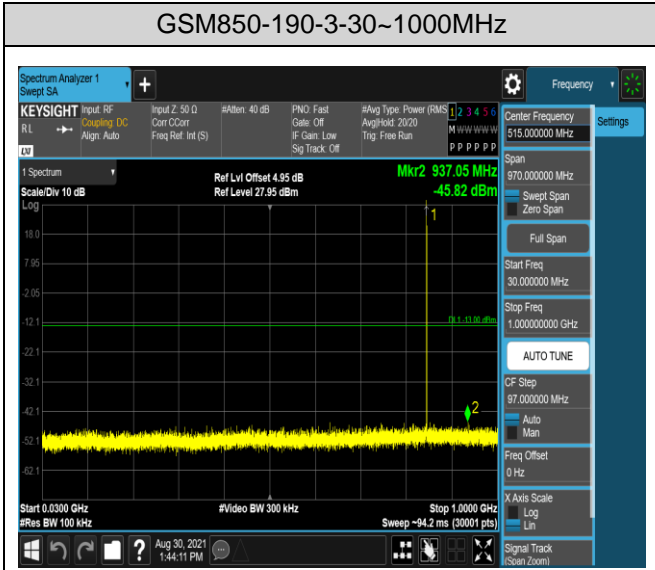
### Test Result

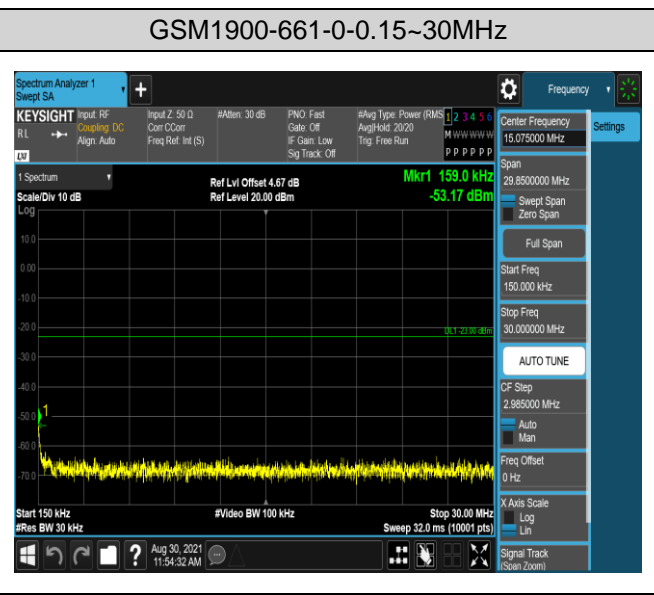
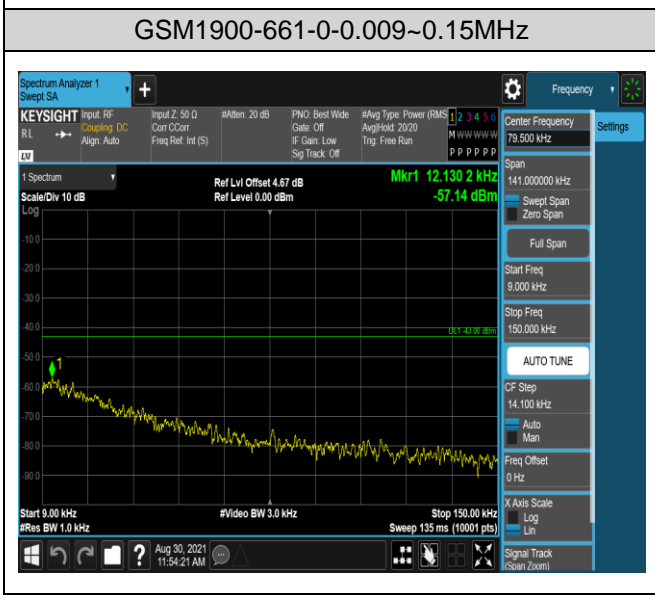
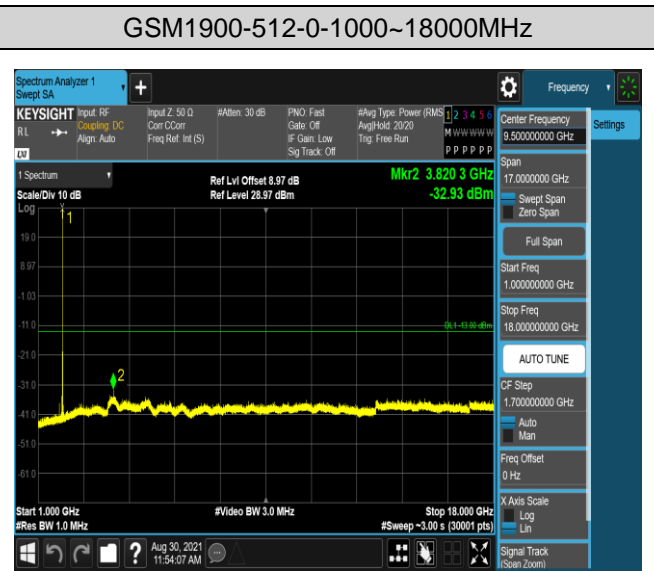
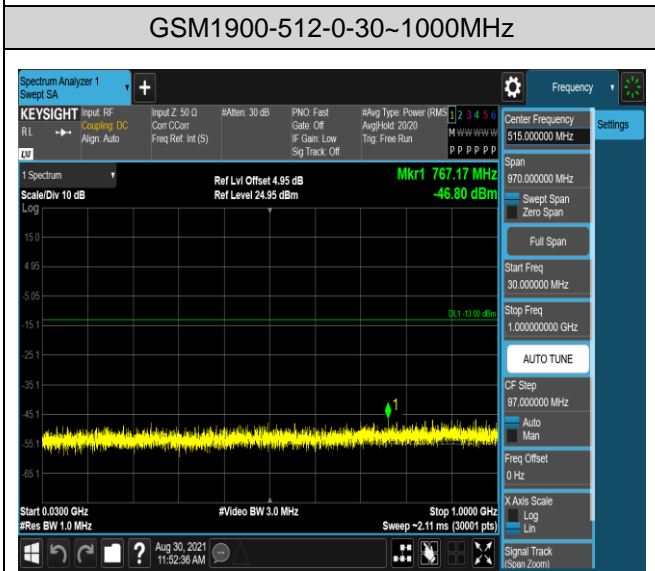
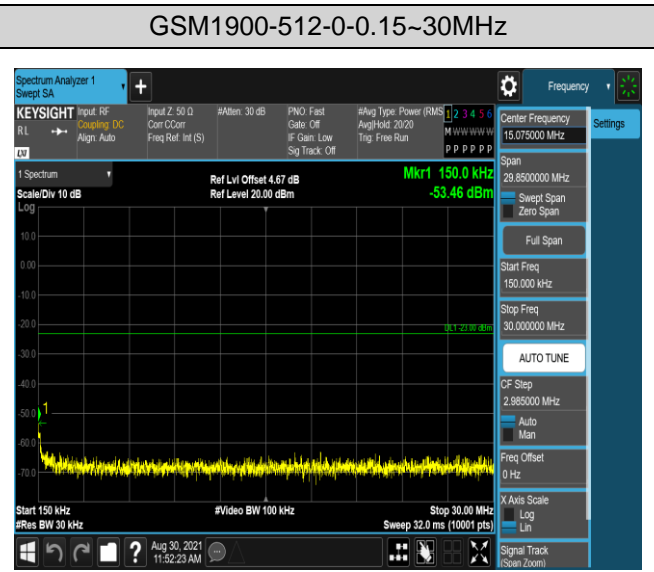
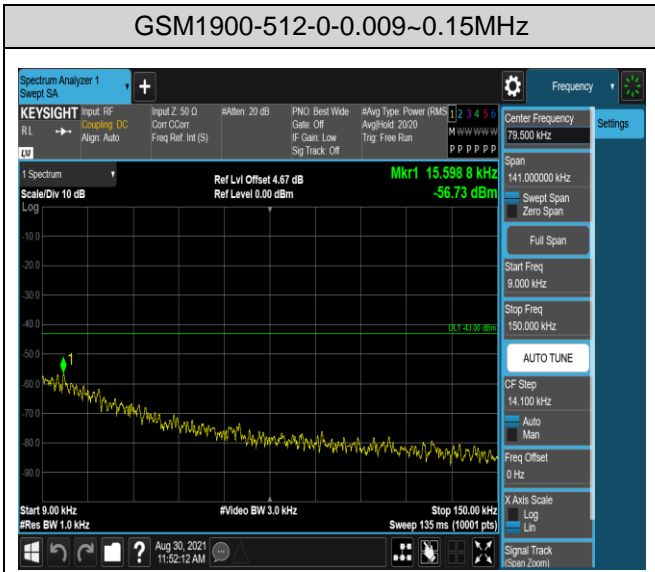
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-54.15	-33	PASS
GSM850	128	3	0.15~30MHz	0.15	-54.32	-13	PASS
GSM850	128	3	30~1000MHz	423.63	-45.56	-13	PASS
GSM850	128	3	1000~10000MHz	2546.2	-24.09	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-53.8	-33	PASS
GSM850	190	3	0.15~30MHz	0.15	-54.08	-13	PASS
GSM850	190	3	30~1000MHz	937.05	-45.83	-13	PASS
GSM850	190	3	1000~10000MHz	2546.2	-23.56	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-53.5	-33	PASS
GSM850	251	3	0.15~30MHz	0.16	-53.05	-13	PASS
GSM850	251	3	30~1000MHz	980.08	-46.13	-13	PASS
GSM850	251	3	1000~10000MHz	2510.8	-24.13	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.02	-56.73	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-53.46	-23	PASS
GSM1900	512	0	30~1000MHz	767.17	-46.8	-13	PASS
GSM1900	512	0	1000~18000MHz	3820.3	-32.93	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-57.15	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-53.17	-23	PASS
GSM1900	661	0	30~1000MHz	807.75	-46.88	-13	PASS
GSM1900	661	0	1000~18000MHz	3746.07	-34.46	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-53.95	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-51.49	-23	PASS
GSM1900	810	0	30~1000MHz	889.16	-46.91	-13	PASS
GSM1900	810	0	1000~18000MHz	3859.4	-33.94	-13	PASS

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

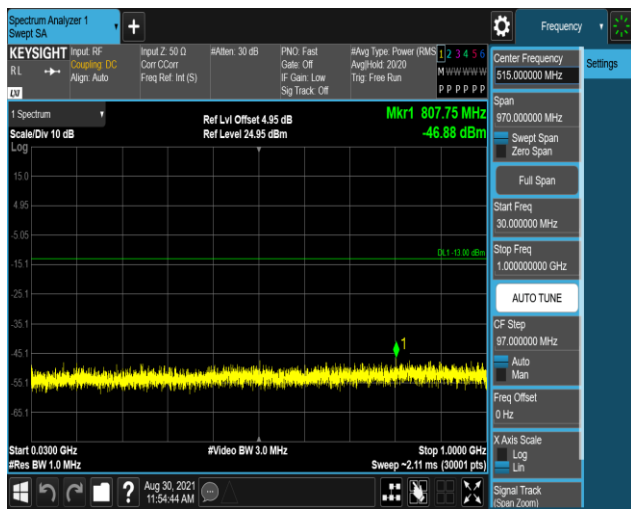
Test Graphs



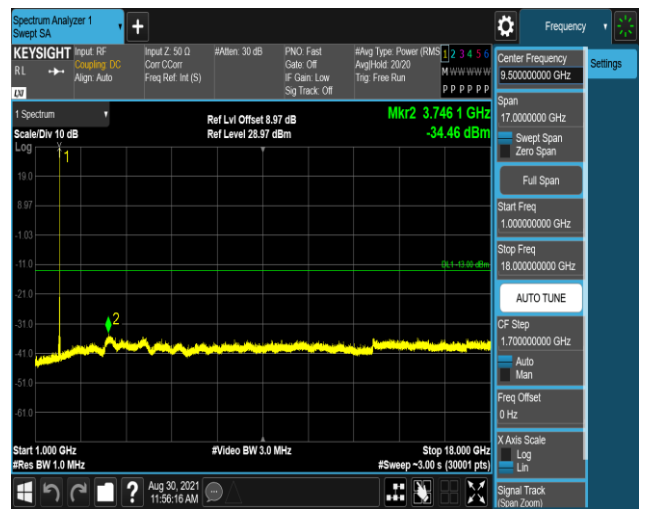




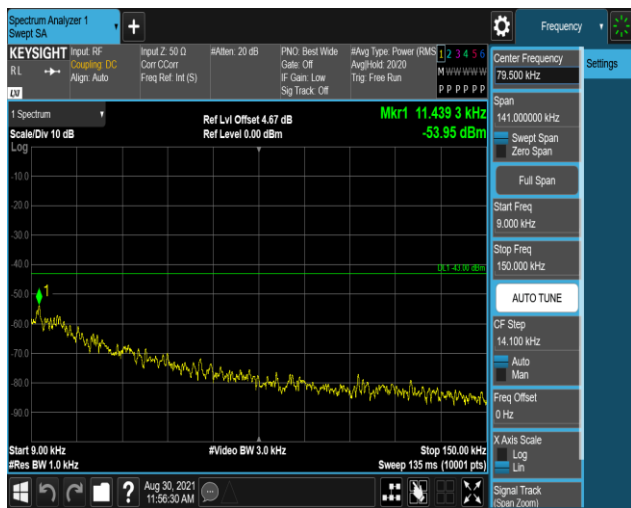
GSM1900-661-0-30~1000MHz



GSM1900-661-0-1000~18000MHz



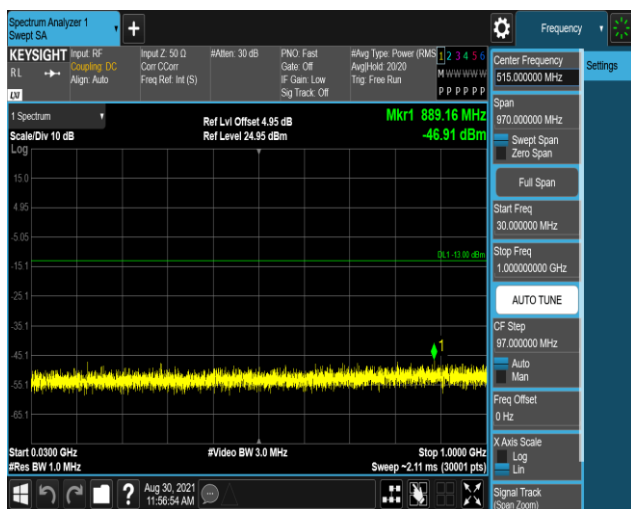
GSM1900-810-0-0.009~0.15MHz



GSM1900-810-0-0.15~30MHz



GSM1900-810-0-30~1000MHz



GSM1900-810-0-1000~18000MHz



## 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	-1.97	-0.002355	±2.5	Pass
	-20	0.10	0.000120		
	-10	3.00	0.003586		
	0	0.58	0.000693		
	10	-2.84	-0.003395		
	20	-2.26	-0.002701		
	30	1.42	0.001697		
	40	-0.52	-0.000622		
	50	-0.77	-0.000920		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	-0.71	-0.000849	±2.5	Pass
	3.85	2.94	0.003514		
	4.40	-0.55	-0.000657		
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	-6.52	-0.007793	±2.5	Pass
	-20	-6.65	-0.007949		
	-10	-1.78	-0.002128		
	0	-2.42	-0.002893		
	10	-3.58	-0.004279		
	20	-0.90	-0.001076		
	30	-3.75	-0.004482		
	40	-2.74	-0.003275		
	50	-4.91	-0.005869		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	-3.42	-0.004088	±2.5	Pass
	3.85	-3.45	-0.004124		
	4.40	-2.36	-0.002821		
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	11.17	0.005941	Within authorized band for PCS 1900	Pass
	-20	8.17	0.004346		
	-10	13.88	0.007383		
	0	10.11	0.005378		
	10	14.27	0.007590		
	20	5.26	0.002798		
	30	10.40	0.005532		
	40	14.69	0.007814		
	50	2.23	0.001186		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	8.43	0.004484	Within authorized band for PCS 1900	Pass
	3.85	11.66	0.006202		
	4.40	4.75	0.002527		
<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	7.43	0.003952	Within authorized band for PCS 1900	Pass
	-20	9.69	0.005154		
	-10	14.46	0.007691		
	0	9.07	0.004824		
	10	14.50	0.007713		
	20	9.81	0.005218		
	30	12.37	0.006580		
	40	9.52	0.005064		
	50	12.40	0.006596		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	7.23	0.003846	Within authorized band for PCS 1900	Pass
	3.85	3.55	0.001888		
	4.40	5.17	0.002750		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

## AppendixG: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

