

## 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	33.70	32.15	38.5	PASS
GSM850	190	5	34.00	32.45	38.5	PASS
GSM850	251	5	33.96	32.41	38.5	PASS
GSM1900	512	0	31.30	32.30	33	PASS
GSM1900	661	0	31.22	32.22	33	PASS
GSM1900	810	0	31.09	32.09	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.66	32.11	38.5	PASS
GPRS850	128	5	2	32.70	31.15	38.5	PASS
GPRS850	128	5	3	30.52	28.97	38.5	PASS
GPRS850	128	5	4	29.19	27.64	38.5	PASS
GPRS850	190	5	1	33.92	32.37	38.5	PASS
GPRS850	190	5	2	33.06	31.51	38.5	PASS
GPRS850	190	5	3	30.95	29.40	38.5	PASS
GPRS850	190	5	4	29.64	28.09	38.5	PASS
GPRS850	251	5	1	33.87	32.32	38.5	PASS
GPRS850	251	5	2	32.98	31.43	38.5	PASS
GPRS850	251	5	3	30.84	29.29	38.5	PASS
GPRS850	251	5	4	29.53	27.98	38.5	PASS
GPRS1900	512	0	1	31.31	32.31	33	PASS
GPRS1900	512	0	2	30.41	31.41	33	PASS
GPRS1900	512	0	3	28.32	29.32	33	PASS
GPRS1900	512	0	4	27.13	28.13	33	PASS
GPRS1900	661	0	1	31.21	32.21	33	PASS
GPRS1900	661	0	2	30.38	31.38	33	PASS
GPRS1900	661	0	3	28.31	29.31	33	PASS
GPRS1900	661	0	4	27.13	28.13	33	PASS
GPRS1900	810	0	1	31.08	32.08	33	PASS
GPRS1900	810	0	2	30.28	31.28	33	PASS
GPRS1900	810	0	3	28.27	29.27	33	PASS
GPRS1900	810	0	4	27.06	28.06	33	PASS

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

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

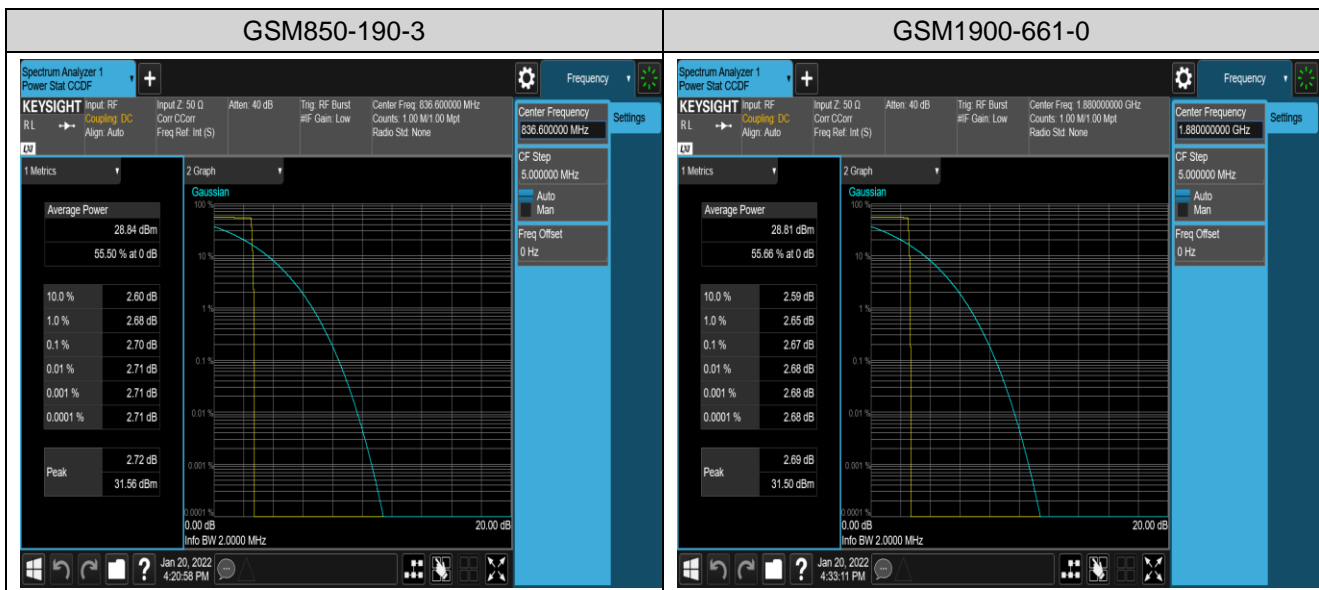
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.7	13	PASS
GSM1900	661	0	2.67	13	PASS

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

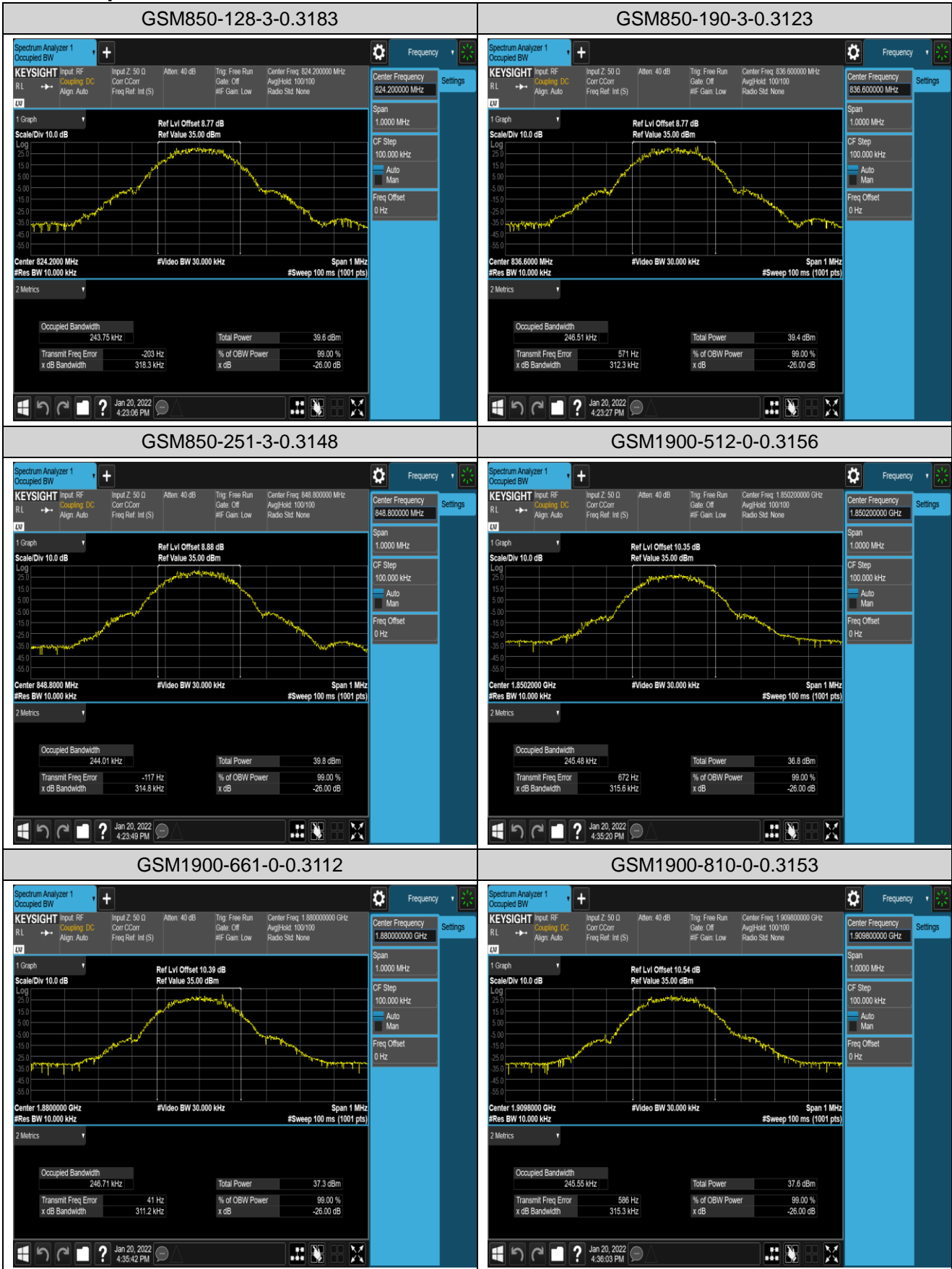
### Test Graphs



**Appendix C: 26dB Bandwidth and Occupied Bandwidth****Test Result**

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24375	0.3183	---	PASS
GSM850	190	5	0.24651	0.3123	---	PASS
GSM850	251	5	0.24401	0.3148	---	PASS
GSM1900	512	0	0.24548	0.3156	---	PASS
GSM1900	661	0	0.24671	0.3112	---	PASS
GSM1900	810	0	0.24555	0.3153	---	PASS

Test Graphs

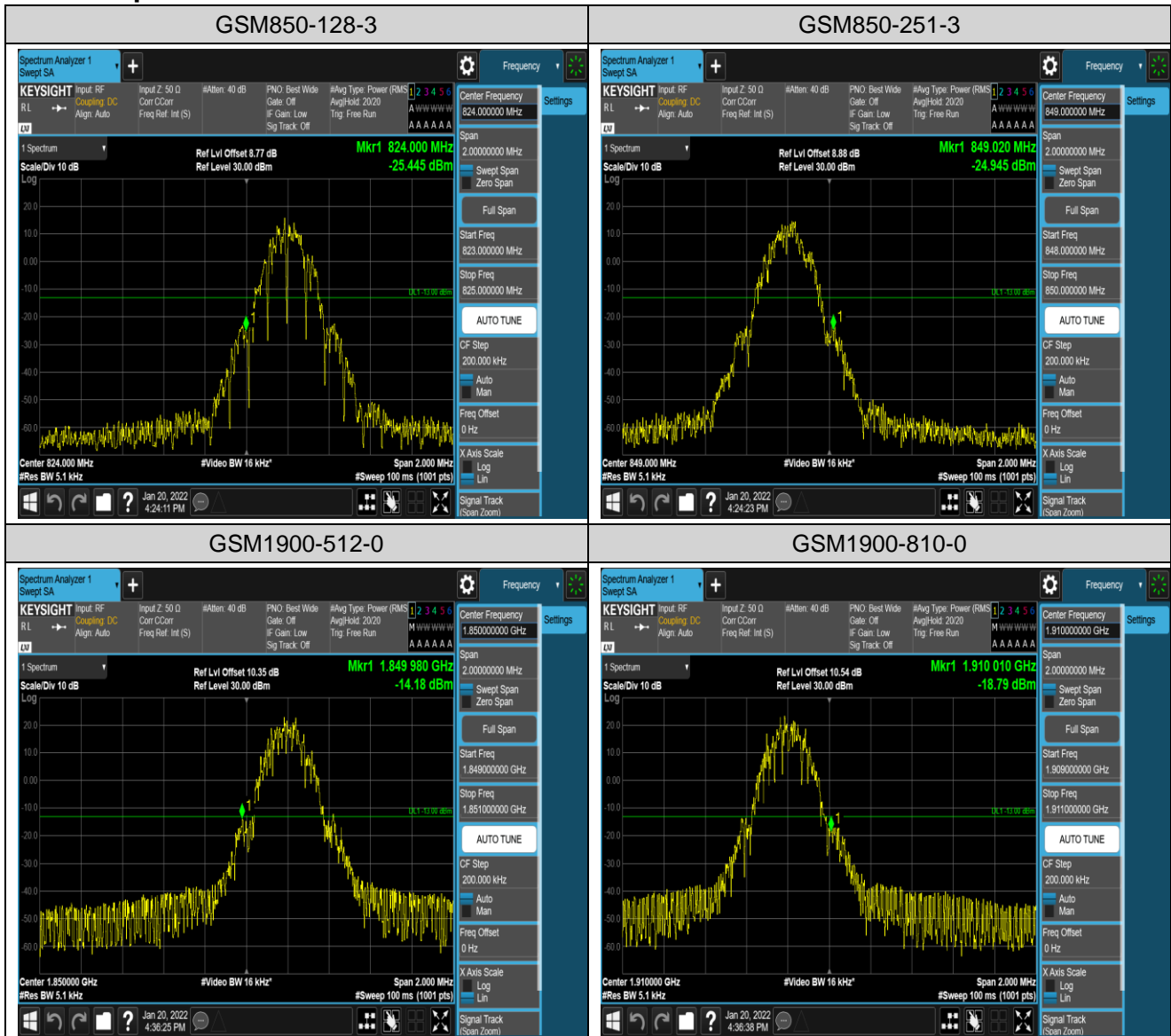


## Appendix D: Band Edge

### Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-25.44	-13	PASS
GSM850	251	5	849.02	-24.94	-13	PASS
GSM1900	512	0	1849.98	-14.18	-13	PASS
GSM1900	810	0	1910.01	-18.79	-13	PASS

### Test Graphs



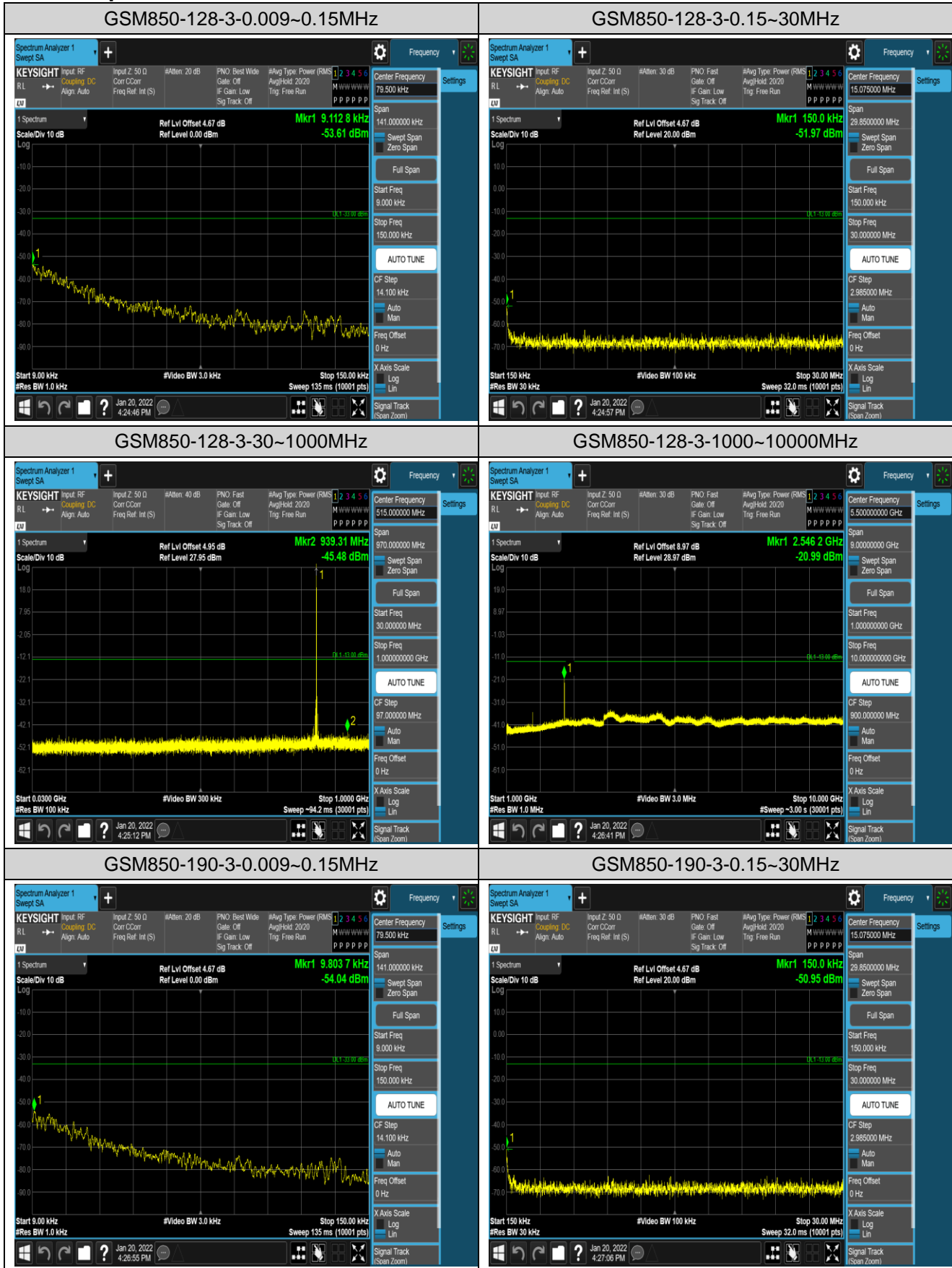
## Appendix E: Conducted Spurious Emission

### 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	-53.61	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-51.97	-13	PASS
GSM850	128	5	30~1000MHz	939.31	-45.48	-13	PASS
GSM850	128	5	1000~10000MHz	2546.2	-20.99	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.04	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-50.96	-13	PASS
GSM850	190	5	30~1000MHz	958.26	-45.68	-13	PASS
GSM850	190	5	1000~10000MHz	2546.5	-21.15	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.03	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-52.78	-13	PASS
GSM850	251	5	30~1000MHz	725.1	-46.4	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-21.18	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.24	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-52.03	-23	PASS
GSM1900	512	0	30~1000MHz	920.01	-46.06	-13	PASS
GSM1900	512	0	1000~18000MHz	1952.57	-32.29	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.74	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-52.12	-23	PASS
GSM1900	661	0	30~1000MHz	927.38	-46.49	-13	PASS
GSM1900	661	0	1000~18000MHz	3865.07	-34.48	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-57.06	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-52.35	-23	PASS
GSM1900	810	0	30~1000MHz	946.46	-46.17	-13	PASS
GSM1900	810	0	1000~18000MHz	3801.03	-34.62	-13	PASS

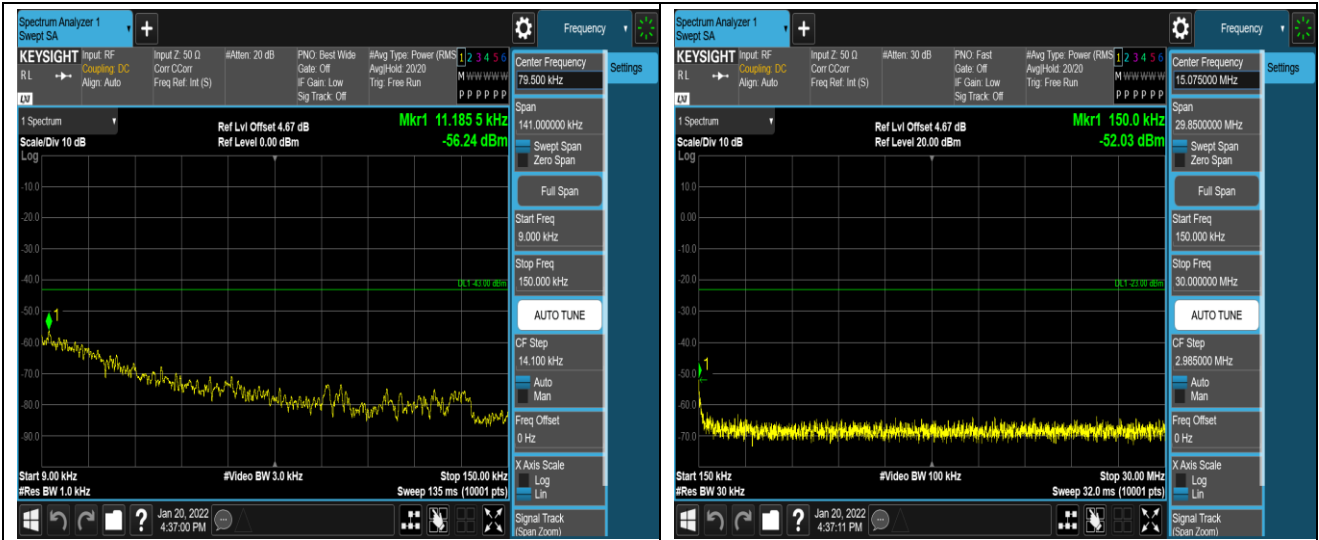
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









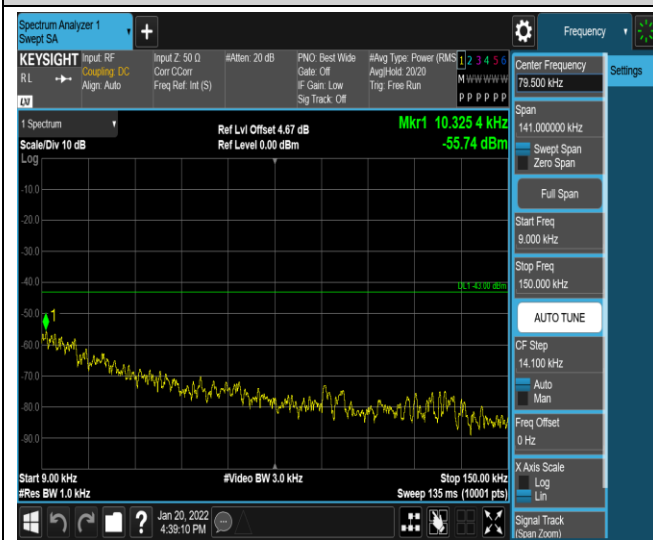
GSM1900-512-0-30~1000MHz

GSM1900-512-0-1000~18000MHz



GSM1900-661-0-0.009~0.15MHz

GSM1900-661-0-0.15~30MHz



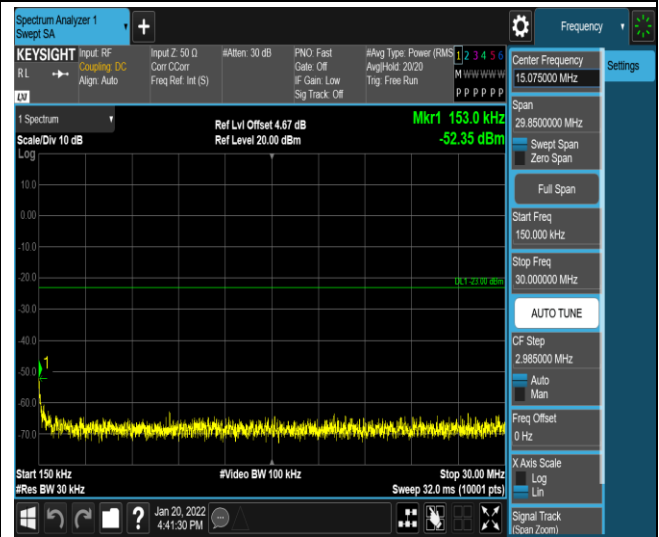
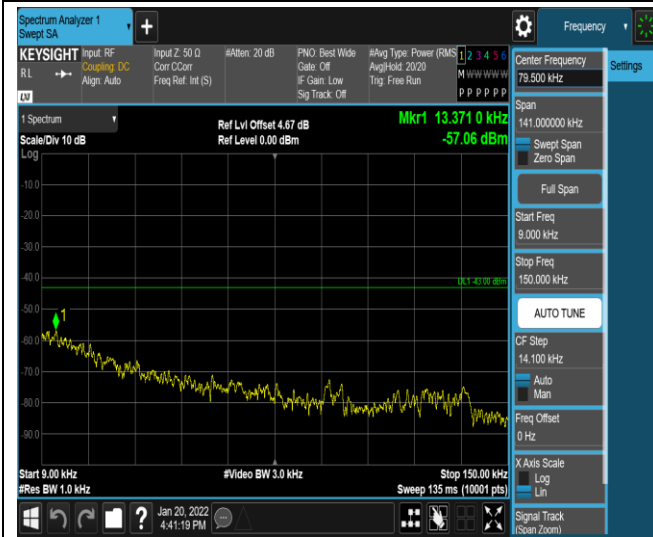
GSM1900-661-0-30~1000MHz

GSM1900-661-0-1000~18000MHz



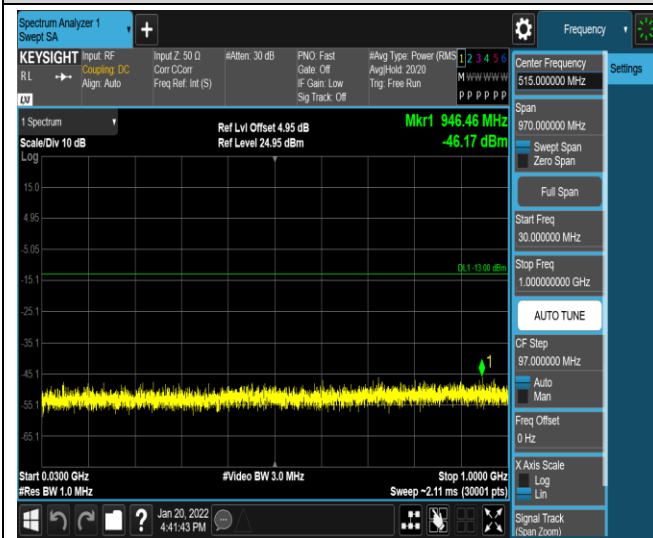
GSM1900-810-0-0.009~0.15MHz

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		
11.1	-30	6.10	0.007291	±2.5	Pass
	-20	5.00	0.005977		
	-10	7.33	0.008762		
	0	6.20	0.007411		
	10	5.71	0.006825		
	20	7.33	0.008762		
	30	7.62	0.009108		
	40	7.33	0.008762		
	50	7.68	0.009180		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9.44	2.10	0.002510	±2.5	Pass
	11.1	11.24	0.013435		
	12.77	4.62	0.005522		
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		
11.1	-30	105.28	0.056000	Within authorized band for PCS 1900	Pass
	-20	105.61	0.056176		
	-10	110.61	0.058835		
	0	111.97	0.059559		
	10	102.06	0.054287		
	20	113.84	0.060553		
	30	107.06	0.056947		
	40	106.93	0.056878		
	50	106.74	0.056777		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9.44	105.87	0.056314	Within authorized band for PCS 1900	Pass
	11.1	107.71	0.057293		
	12.77	107.09	0.056963		
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

