

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	33.03	28.78	38.5	PASS
GSM850	190	3	32.91	28.66	38.5	PASS
GSM850	251	3	32.87	28.62	38.5	PASS
GSM1900	512	0	30.34	28.64	33	PASS
GSM1900	661	0	30.07	28.37	33	PASS
GSM1900	810	0	29.77	28.07	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	33.18	28.93	38.5	PASS
GPRS850	128	3	2	32.58	28.33	38.5	PASS
GPRS850	128	3	3	30.75	26.50	38.5	PASS
GPRS850	128	3	4	29.50	25.25	38.5	PASS
GPRS850	190	3	1	33.39	29.14	38.5	PASS
GPRS850	190	3	2	32.74	28.49	38.5	PASS
GPRS850	190	3	3	30.78	26.53	38.5	PASS
GPRS850	190	3	4	29.56	25.31	38.5	PASS
GPRS850	251	3	1	33.19	28.94	38.5	PASS
GPRS850	251	3	2	32.63	28.38	38.5	PASS
GPRS850	251	3	3	31.00	26.75	38.5	PASS
GPRS850	251	3	4	29.79	25.54	38.5	PASS
GPRS1900	512	0	1	30.53	28.83	33	PASS
GPRS1900	512	0	2	29.76	28.06	33	PASS
GPRS1900	512	0	3	27.65	25.95	33	PASS
GPRS1900	512	0	4	26.41	24.71	33	PASS
GPRS1900	661	0	1	30.28	28.58	33	PASS
GPRS1900	661	0	2	29.73	28.03	33	PASS
GPRS1900	661	0	3	27.68	25.98	33	PASS
GPRS1900	661	0	4	26.41	24.71	33	PASS
GPRS1900	810	0	1	30.00	28.30	33	PASS
GPRS1900	810	0	2	29.51	27.81	33	PASS
GPRS1900	810	0	3	27.61	25.91	33	PASS
GPRS1900	810	0	4	26.33	24.63	33	PASS

Remark: $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$. (For GSM1900)
 $ERP (dBm) = EIRP (dBm) - 2.15 (dB)$. (For GSM850)

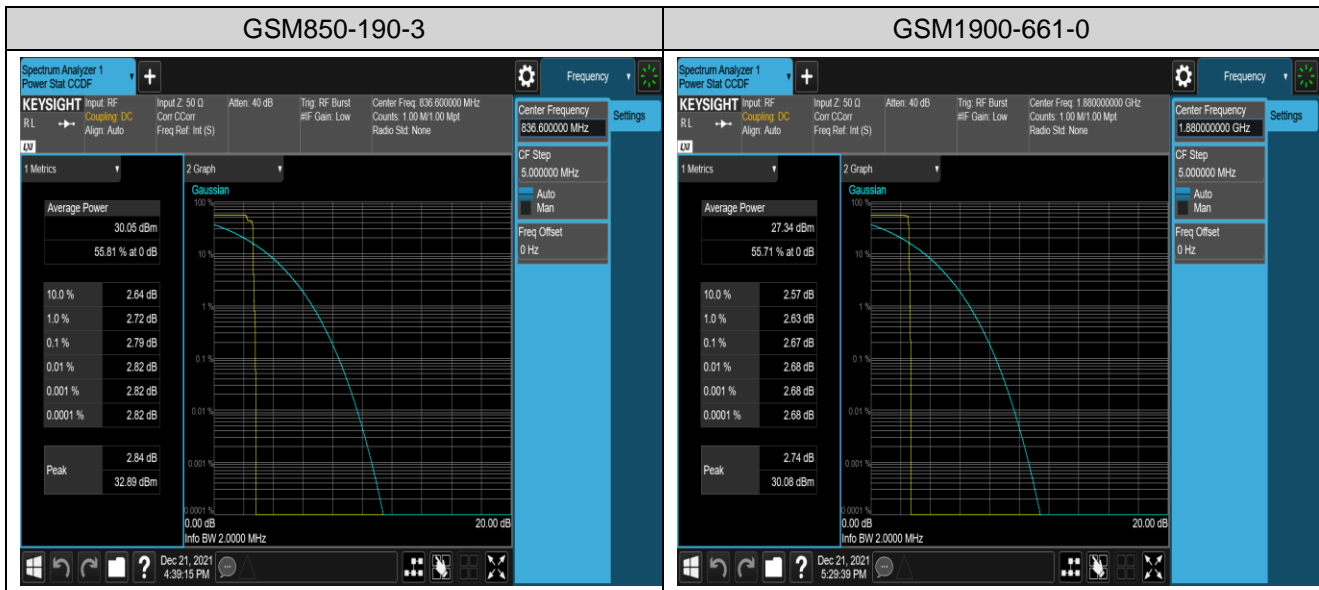
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.79	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.

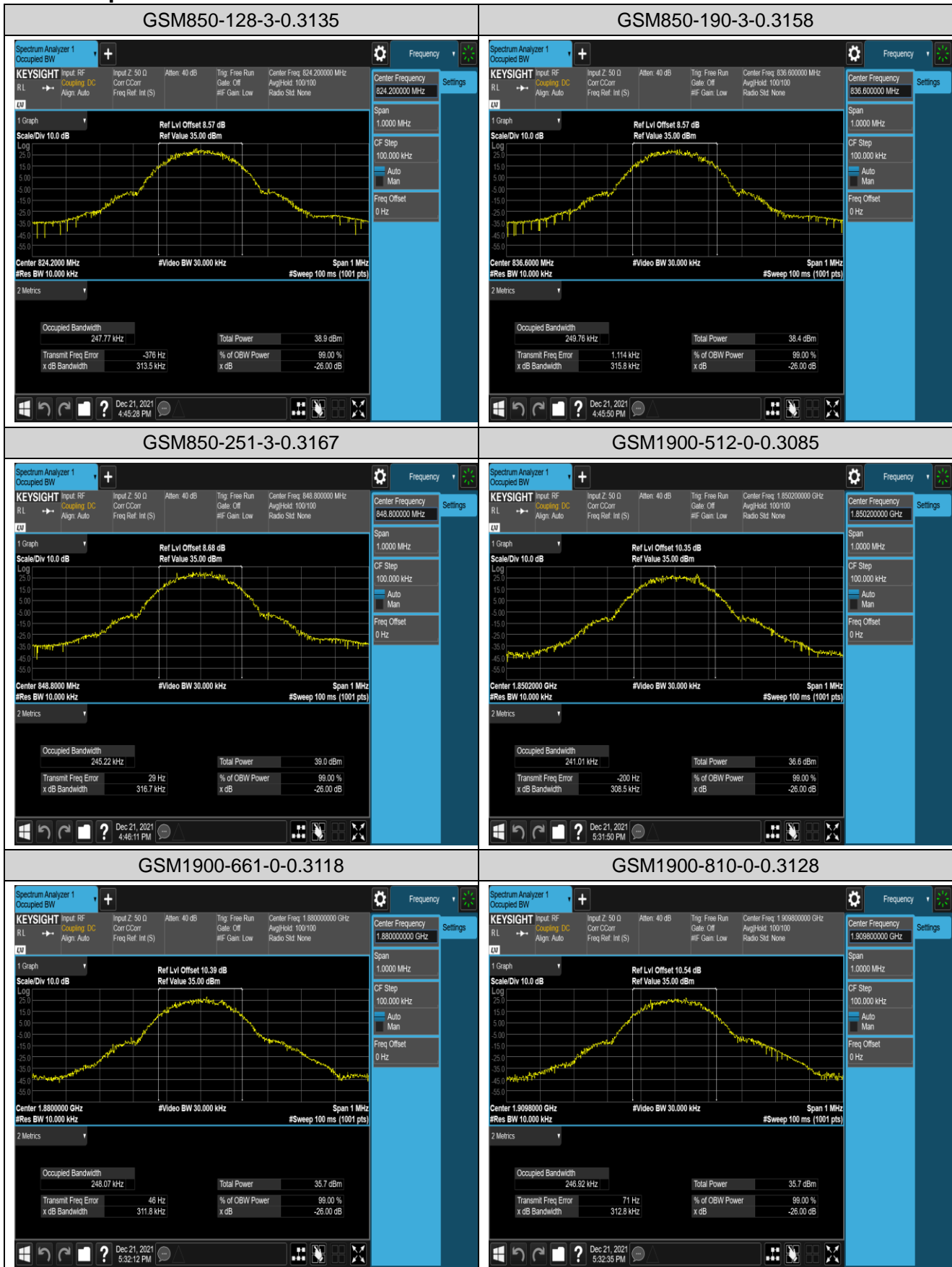
Test Graphs



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

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24777	0.3135	---	PASS
GSM850	190	3	0.24976	0.3158	---	PASS
GSM850	251	3	0.24522	0.3167	---	PASS
GSM1900	512	0	0.24101	0.3085	---	PASS
GSM1900	661	0	0.24807	0.3118	---	PASS
GSM1900	810	0	0.24692	0.3128	---	PASS

Test Graphs

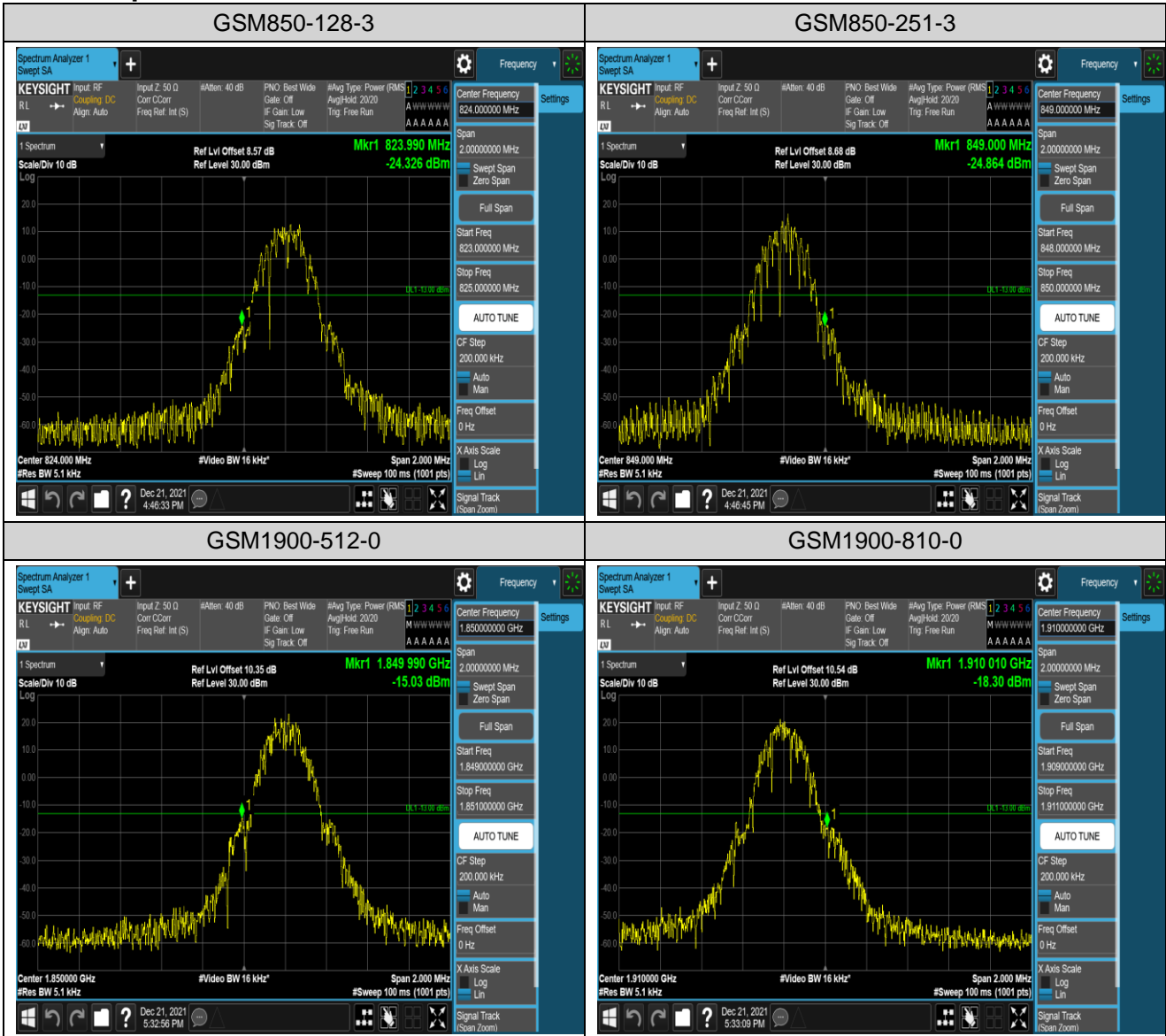


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.99	-24.33	-13	PASS
GSM850	251	3	849.00	-24.86	-13	PASS
GSM1900	512	0	1849.99	-15.03	-13	PASS
GSM1900	810	0	1910.01	-18.30	-13	PASS

Test Graphs



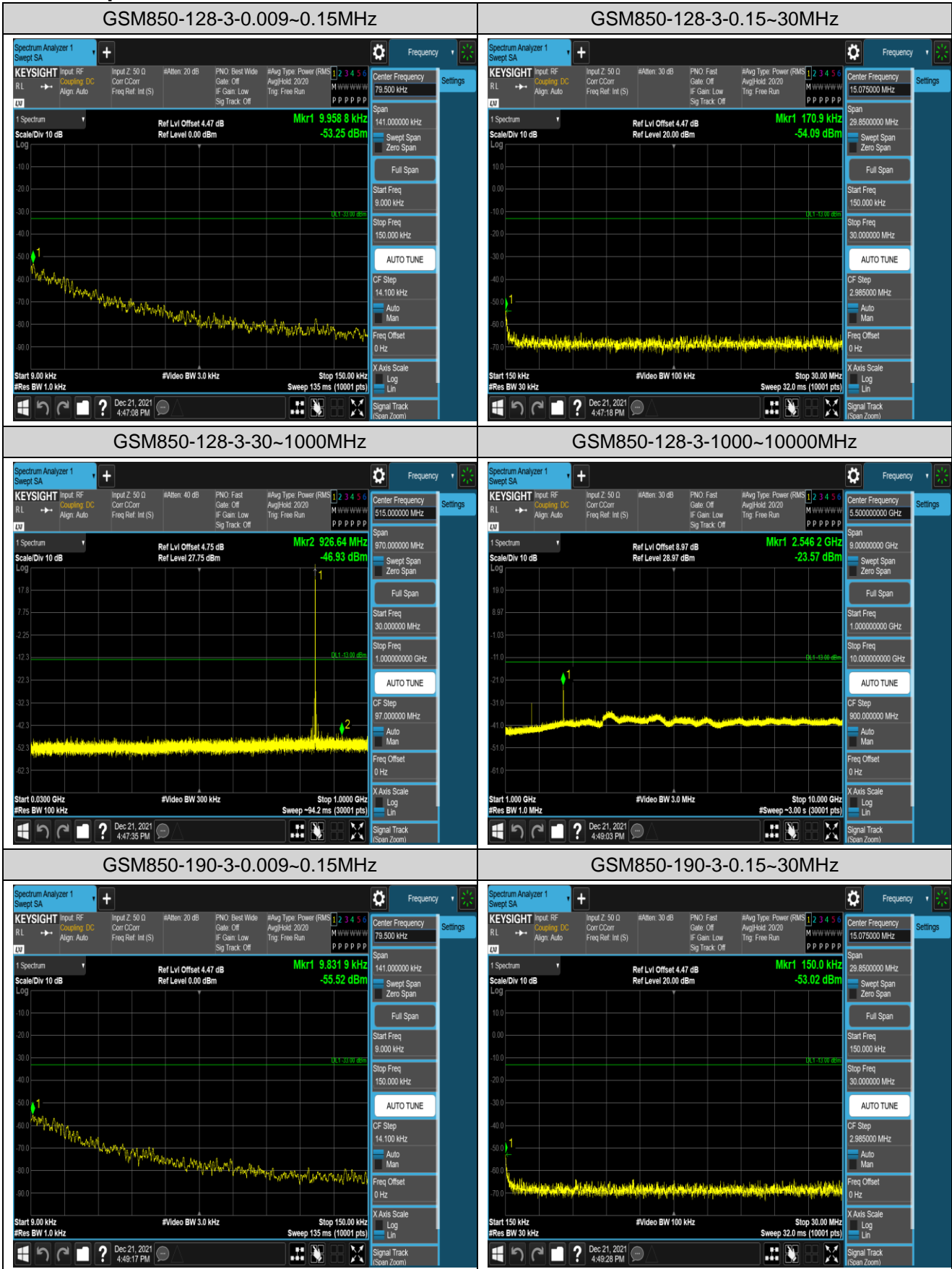
Appendix E: Conducted Spurious Emission

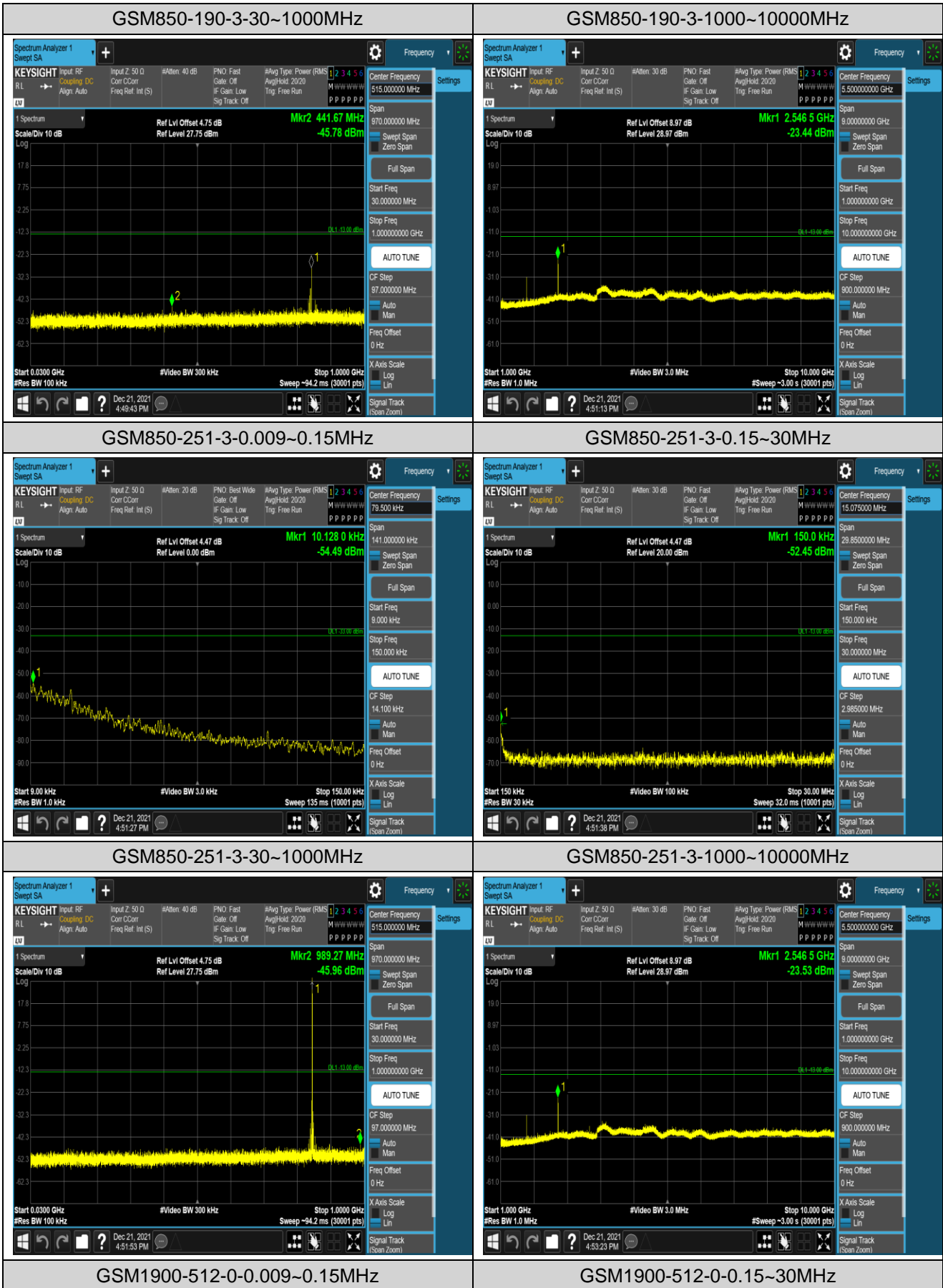
Test Result

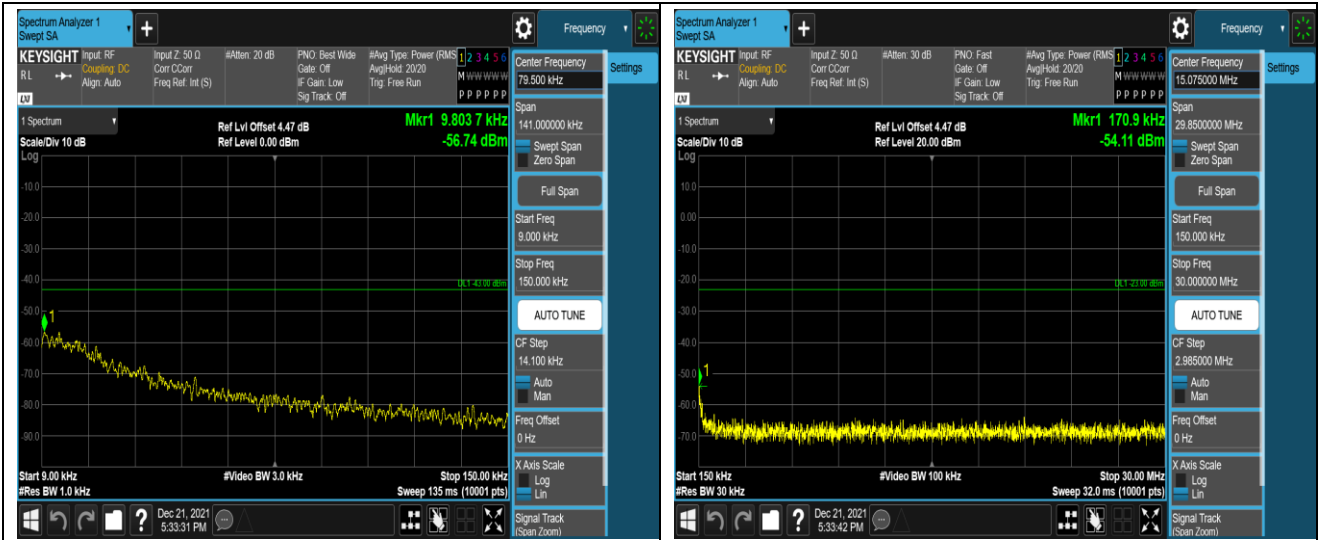
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-53.25	-33	PASS
GSM850	128	3	0.15~30MHz	0.17	-54.09	-13	PASS
GSM850	128	3	30~1000MHz	926.64	-46.93	-13	PASS
GSM850	128	3	1000~10000MHz	2546.2	-23.57	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-55.52	-33	PASS
GSM850	190	3	0.15~30MHz	0.15	-53.02	-13	PASS
GSM850	190	3	30~1000MHz	441.67	-45.78	-13	PASS
GSM850	190	3	1000~10000MHz	2546.5	-23.44	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-54.49	-33	PASS
GSM850	251	3	0.15~30MHz	0.15	-52.46	-13	PASS
GSM850	251	3	30~1000MHz	989.27	-45.97	-13	PASS
GSM850	251	3	1000~10000MHz	2546.5	-23.53	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.74	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-54.11	-23	PASS
GSM1900	512	0	30~1000MHz	864.2	-46.56	-13	PASS
GSM1900	512	0	1000~18000MHz	3777.8	-35.08	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.68	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-52.48	-23	PASS
GSM1900	661	0	30~1000MHz	892.52	-46.94	-13	PASS
GSM1900	661	0	1000~18000MHz	3804.43	-34.12	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.72	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-53.23	-23	PASS
GSM1900	810	0	30~1000MHz	890	-47.33	-13	PASS
GSM1900	810	0	1000~18000MHz	3752.87	-34.49	-13	PASS

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

Test Graphs

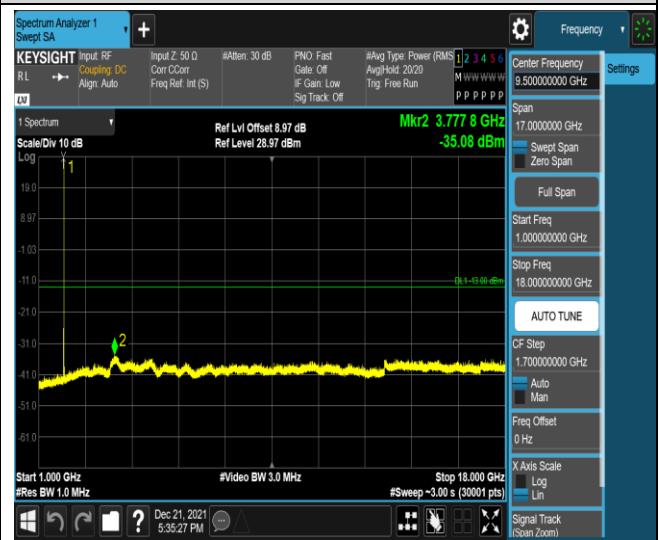
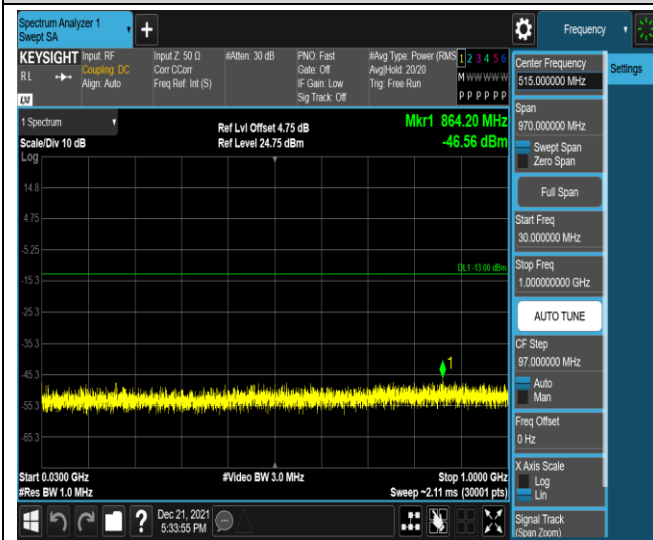






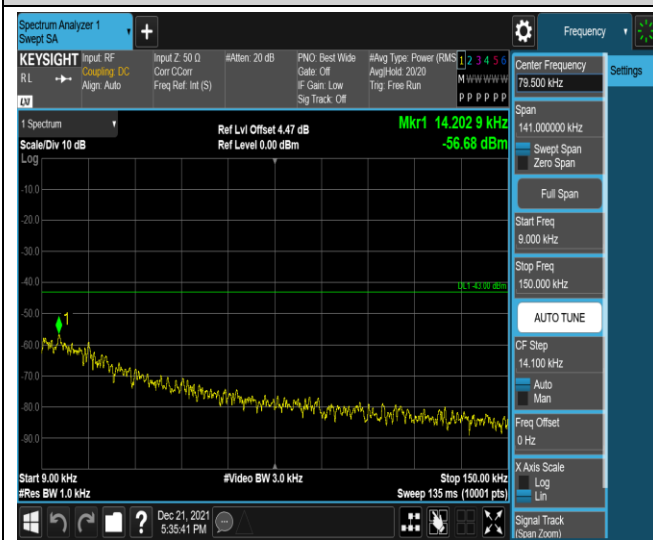
GSM1900-512-0-30~1000MHz

GSM1900-512-0-1000~18000MHz



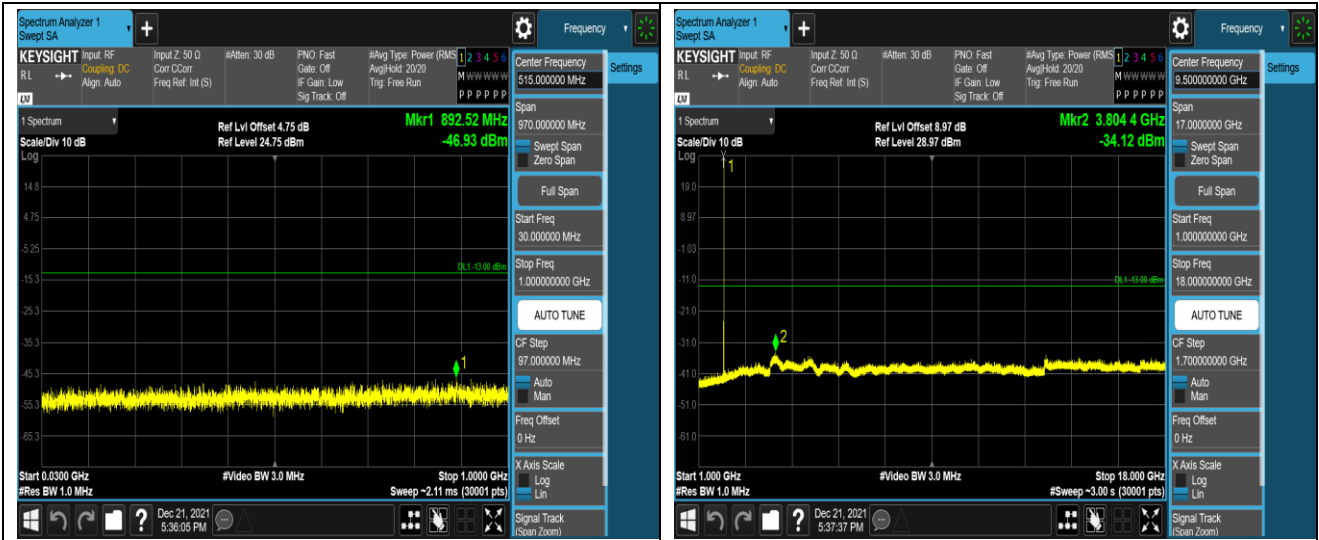
GSM1900-661-0-0.009~0.15MHz

GSM1900-661-0-0.15~30MHz



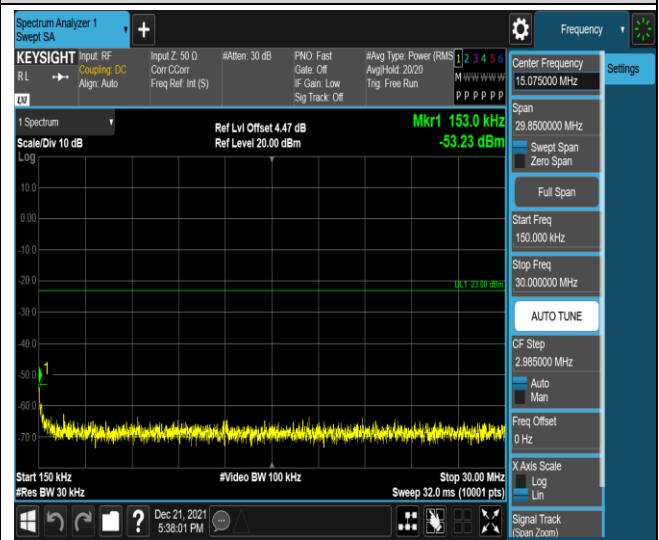
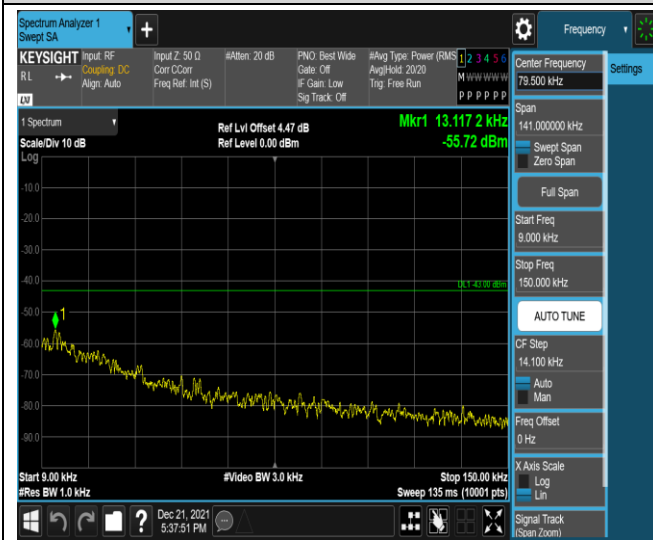
GSM1900-661-0-30~1000MHz

GSM1900-661-0-1000~18000MHz



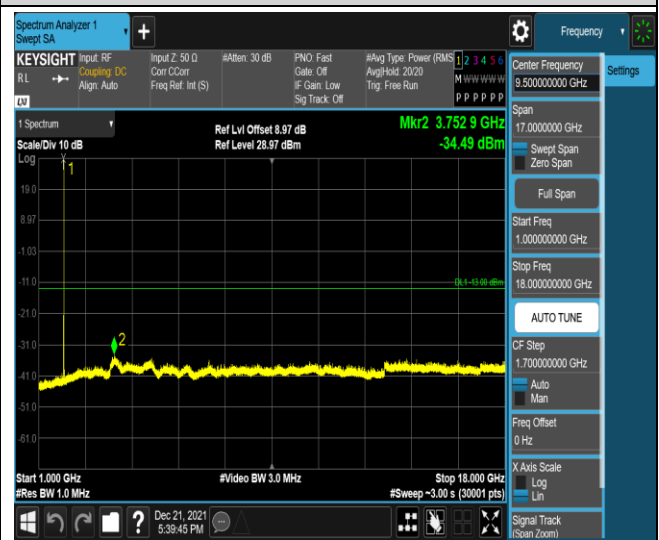
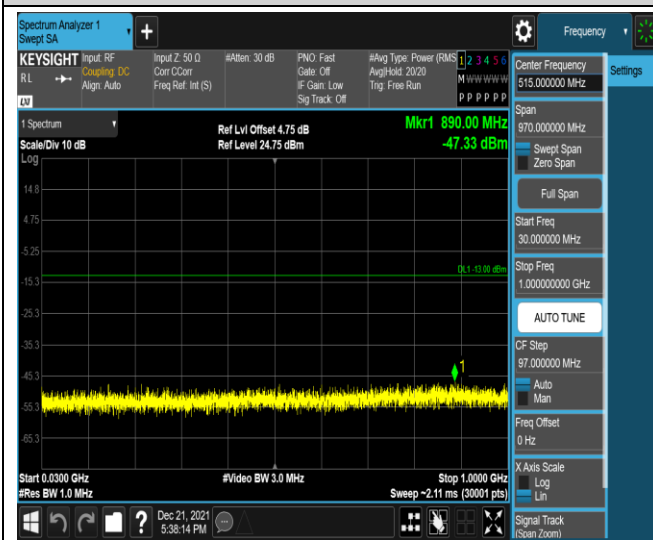
GSM1900-810-0-0.009~0.15MHz

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		
3.70	-30	22.15	0.026476	±2.5	Pass
	-20	24.76	0.029596		
	-10	25.02	0.029907		
	0	22.83	0.027289		
	10	22.24	0.026584		
	20	19.34	0.023117		
	30	22.57	0.026978		
	40	24.67	0.029488		
	50	24.31	0.029058		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	24.12	0.028831	±2.5	Pass
	3.70	15.37	0.018372		
	4.25	15.17	0.018133		
<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	13.50	0.007181	Within authorized band for PCS 1900	Pass
	-20	13.82	0.007351		
	-10	16.89	0.008984		
	0	-3.03	-0.001612		
	10	16.76	0.008915		
	20	12.33	0.006559		
	30	25.57	0.013601		
	40	16.63	0.008846		
	50	9.85	0.005239		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	15.72	0.008362	Within authorized band for PCS 1900	Pass
	3.70	29.48	0.015681		
	4.25	10.04	0.005340		
<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
GSM1900	661	PASS	PASS

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

Test Graphs

