

## 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	32.07	31.96	38.5	PASS
GSM850	190	3	32.22	32.11	38.5	PASS
GSM850	251	3	32.10	31.99	38.5	PASS
GSM1900	512	0	28.27	31.82	33	PASS
GSM1900	661	0	28.19	31.74	33	PASS
GSM1900	810	0	28.35	31.90	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	32.06	31.95	38.5	PASS
GPRS850	128	3	2	30.45	30.34	38.5	PASS
GPRS850	128	3	3	29.22	29.11	38.5	PASS
GPRS850	128	3	4	27.58	27.47	38.5	PASS
GPRS850	190	3	1	32.15	32.04	38.5	PASS
GPRS850	190	3	2	30.57	30.46	38.5	PASS
GPRS850	190	3	3	29.27	29.16	38.5	PASS
GPRS850	190	3	4	27.65	27.54	38.5	PASS
GPRS850	251	3	1	32.07	31.96	38.5	PASS
GPRS850	251	3	2	30.47	30.36	38.5	PASS
GPRS850	251	3	3	29.18	29.07	38.5	PASS
GPRS850	251	3	4	27.55	27.44	38.5	PASS
GPRS1900	512	0	1	28.26	31.78	33	PASS
GPRS1900	512	0	2	26.28	29.80	33	PASS
GPRS1900	512	0	3	24.88	28.40	33	PASS
GPRS1900	512	0	4	23.07	26.59	33	PASS
GPRS1900	661	0	1	28.15	31.67	33	PASS
GPRS1900	661	0	2	25.97	29.49	33	PASS
GPRS1900	661	0	3	24.57	28.09	33	PASS
GPRS1900	661	0	4	22.75	26.27	33	PASS
GPRS1900	810	0	1	28.32	31.84	33	PASS
GPRS1900	810	0	2	26.00	29.52	33	PASS
GPRS1900	810	0	3	24.61	28.13	33	PASS
GPRS1900	810	0	4	22.75	26.27	33	PASS

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

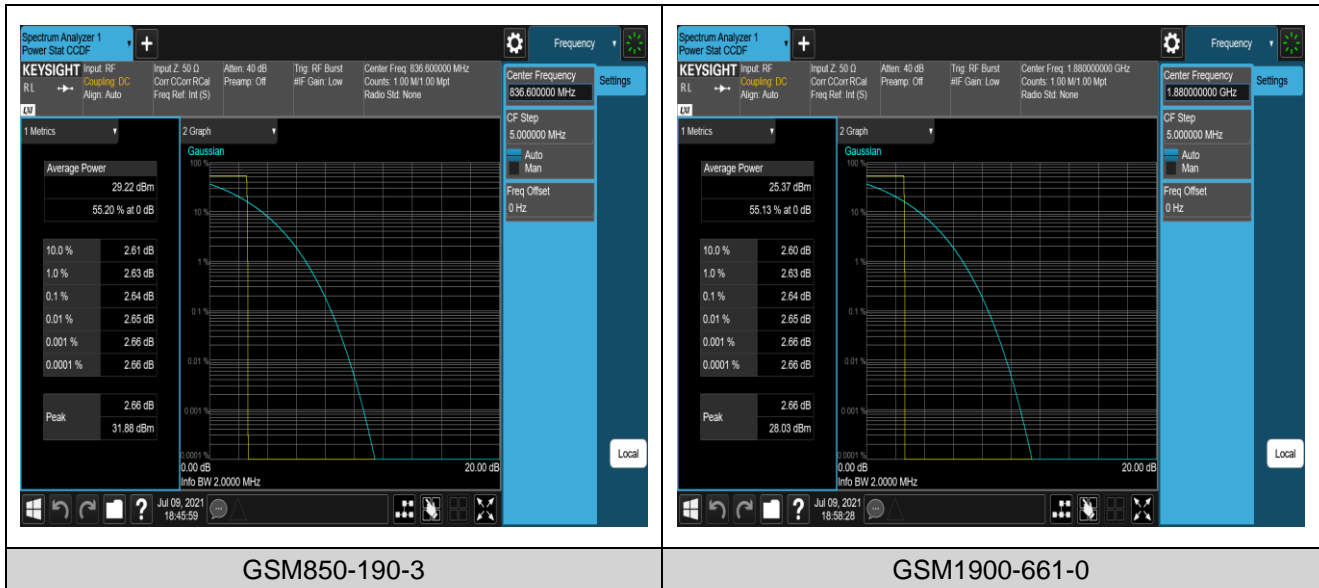
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.64	13	PASS
GSM1900	661	0	2.64	13	PASS

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

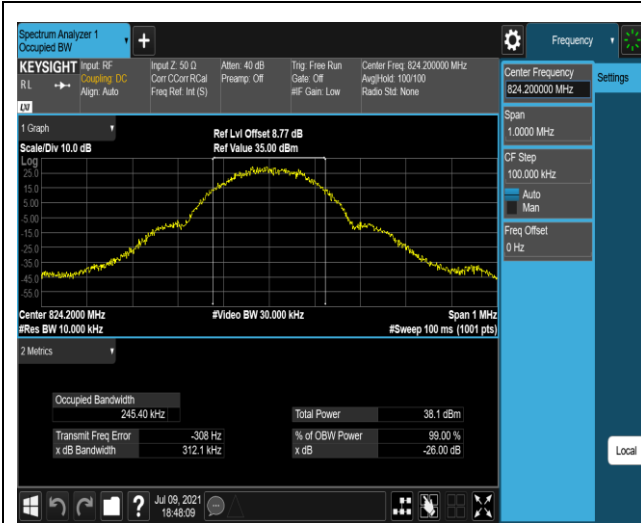
### Test Graphs



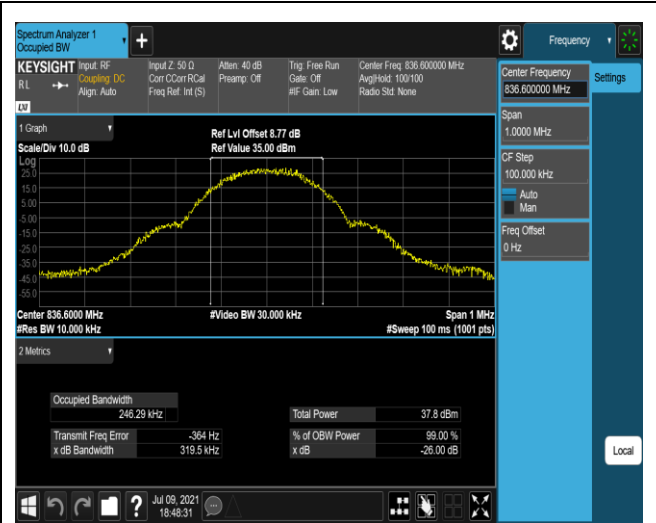
**Appendix C: 26dB Bandwidth and Occupied Bandwidth****Test Result**

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
GSM850	128	3	0.24540	0.3121	PASS
GSM850	190	3	0.24629	0.3195	PASS
GSM850	251	3	0.24720	0.3111	PASS
GSM1900	512	0	0.24271	0.3107	PASS
GSM1900	661	0	0.25103	0.3236	PASS
GSM1900	810	0	0.24634	0.3182	PASS

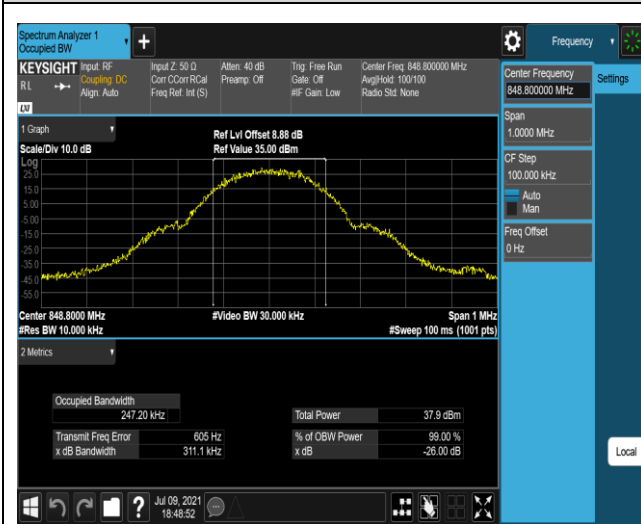
Test Graphs



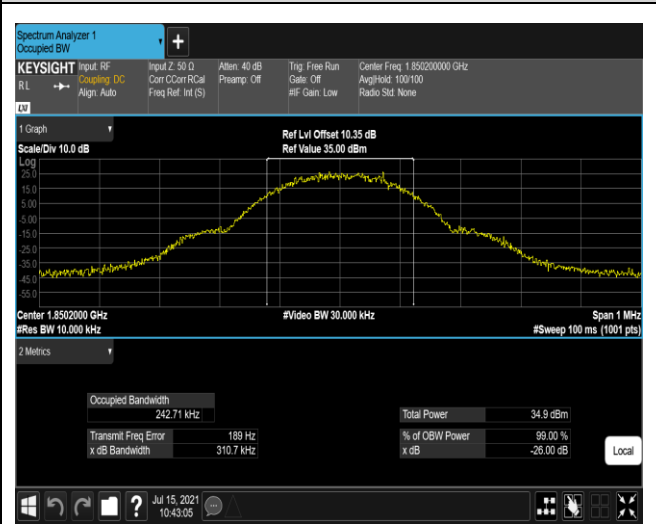
GSM850-128-3-0.3121



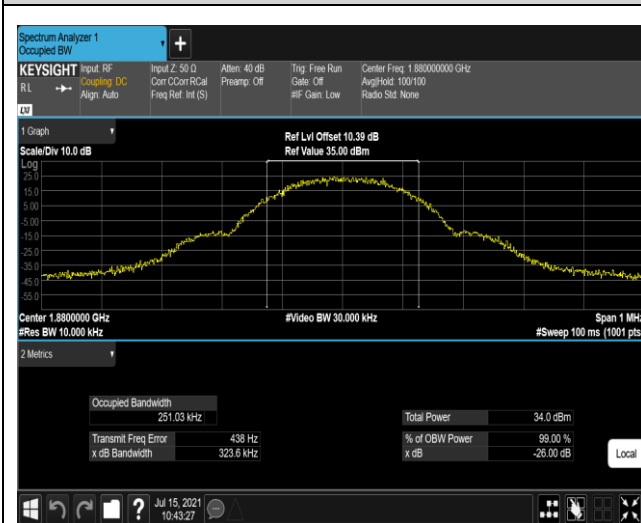
GSM850-190-3-0.3195



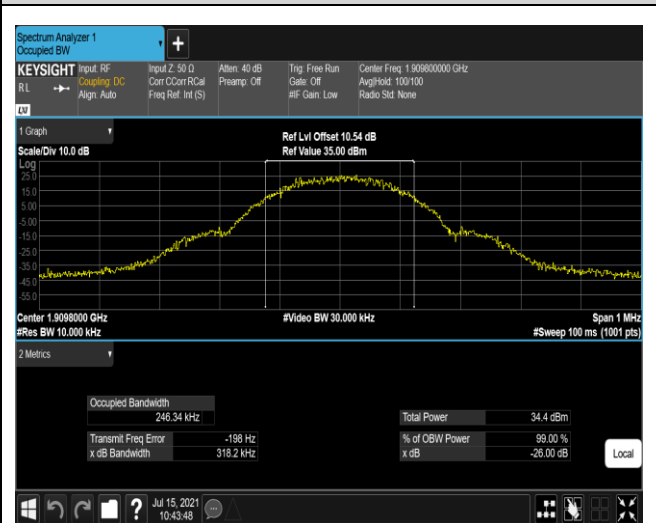
GSM850-251-3-0.3111



GSM1900-512-0-0.3107



GSM1900-661-0-0.3236



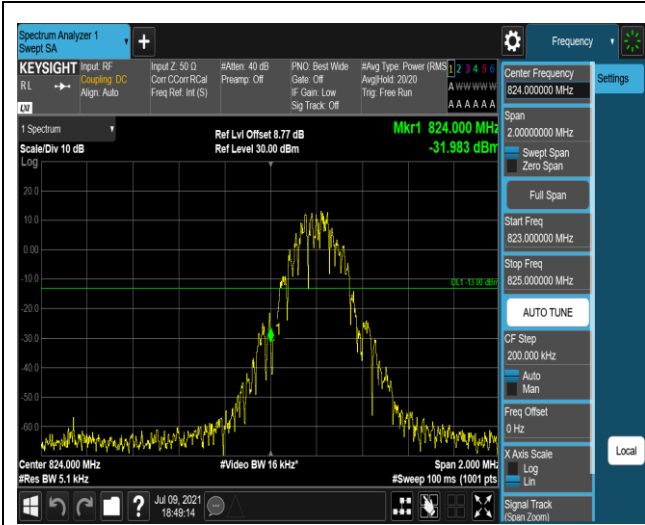
GSM1900-810-0-0.3182

## Appendix D: Band Edge

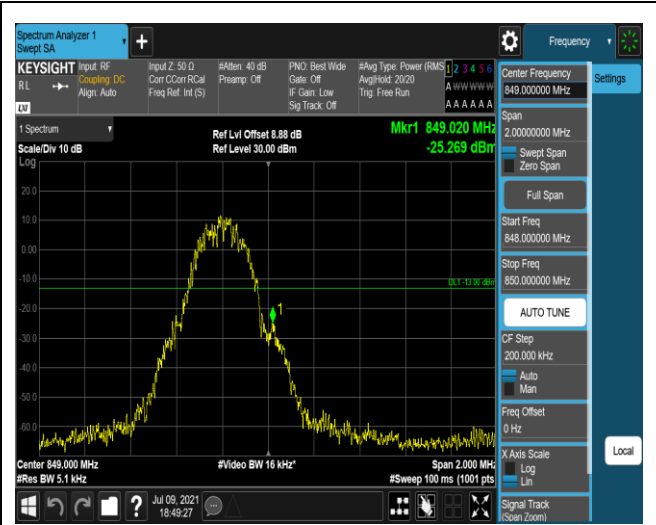
### Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	824.00	-21.53	-13	PASS
GSM850	251	3	849.02	-24.11	-13	PASS
GSM1900	512	0	1849.98	-17.06	-13	PASS
GSM1900	810	0	1910.02	-14.62	-13	PASS

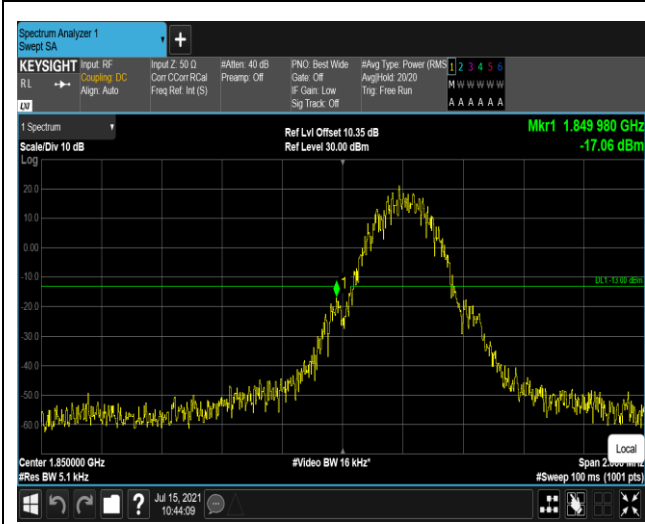
Test Graphs



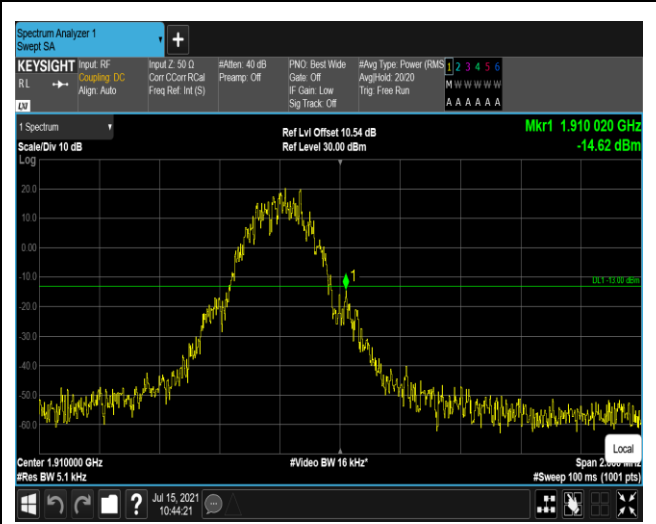
GSM850-128-3



GSM850-251-3



GSM1900-512-0



GSM1900-810-0

## Appendix E: Conducted Spurious Emission

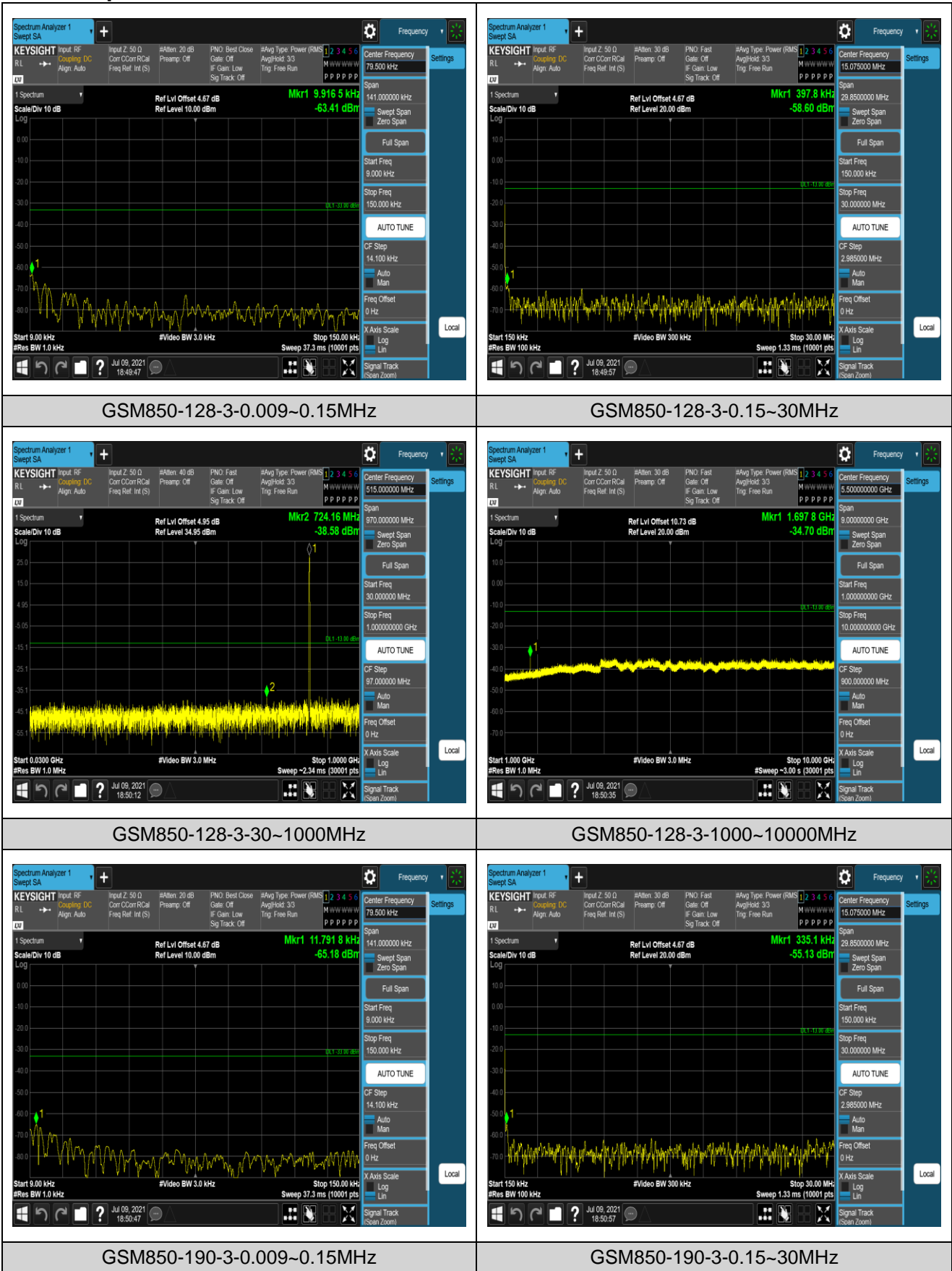
### Test Result

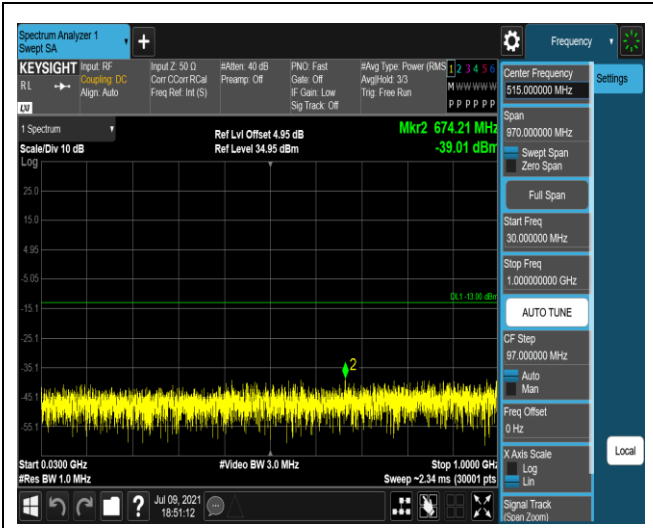
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-63.41	-33	PASS
GSM850	128	3	0.15~30MHz	0.4	-58.6	-13	PASS
GSM850	128	3	30~1000MHz	724.16	-38.58	-13	PASS
GSM850	128	3	1000~10000MHz	1697.8	-34.7	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-65.18	-33	PASS
GSM850	190	3	0.15~30MHz	0.34	-55.13	-13	PASS
GSM850	190	3	30~1000MHz	674.21	-39.01	-13	PASS
GSM850	190	3	1000~10000MHz	3601.3	-34.37	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-66.67	-33	PASS
GSM850	251	3	0.15~30MHz	0.55	-59.86	-13	PASS
GSM850	251	3	30~1000MHz	972.81	-37.68	-13	PASS
GSM850	251	3	1000~10000MHz	3682.6	-34.17	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-73.39	-43	PASS
GSM1900	512	0	0.15~30MHz	0.37	-56.06	-23	PASS
GSM1900	512	0	30~1000MHz	650.02	-42.12	-13	PASS
GSM1900	512	0	1000~18000MHz	3819.73	-33.07	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-74.79	-43	PASS
GSM1900	661	0	0.15~30MHz	0.32	-57.05	-23	PASS
GSM1900	661	0	30~1000MHz	775.06	-41.58	-13	PASS
GSM1900	661	0	1000~18000MHz	3820.3	-32.33	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.02	-74.52	-43	PASS
GSM1900	810	0	0.15~30MHz	0.29	-54.19	-23	PASS
GSM1900	810	0	30~1000MHz	860	-41.71	-13	PASS
GSM1900	810	0	1000~18000MHz	3819.73	-32.96	-13	PASS

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

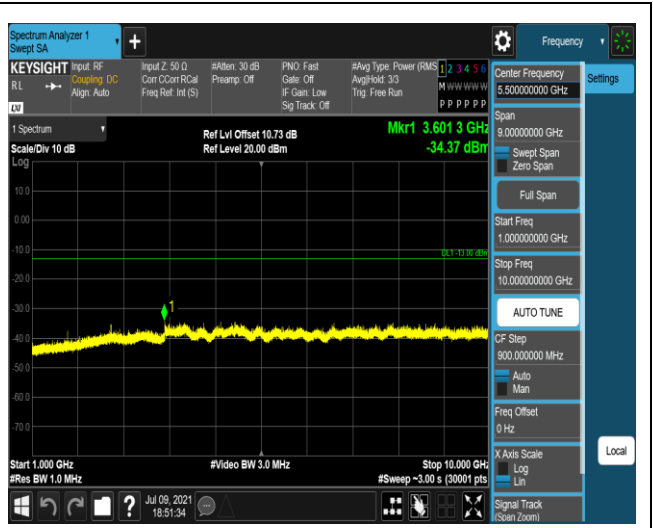


Test Graphs

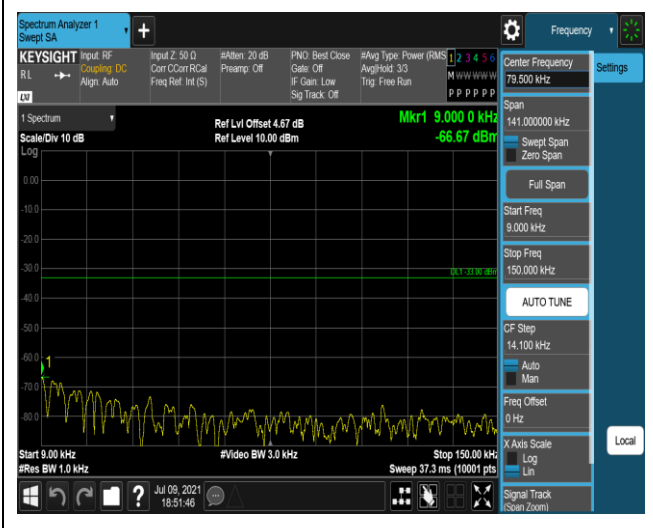




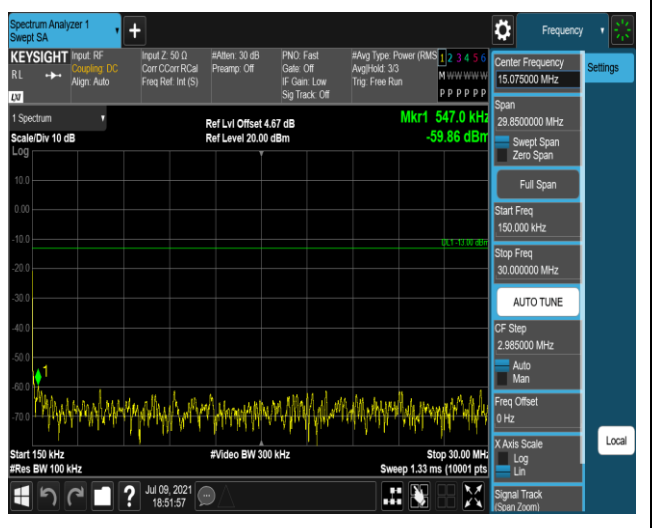
GSM850-190-3-30~1000MHz



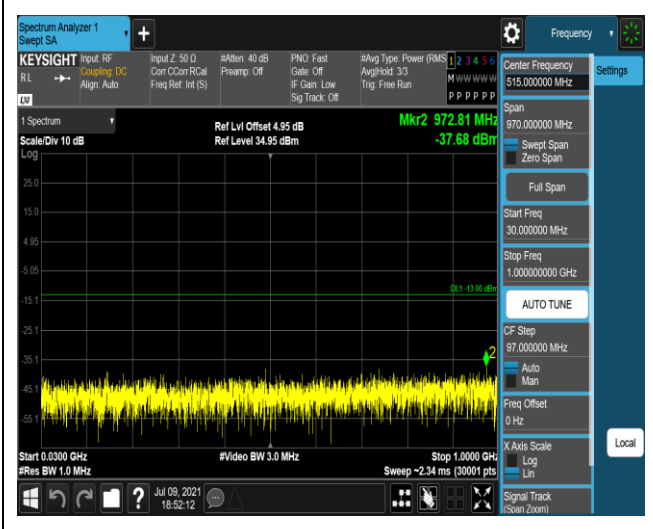
GSM850-190-3-1000~10000MHz



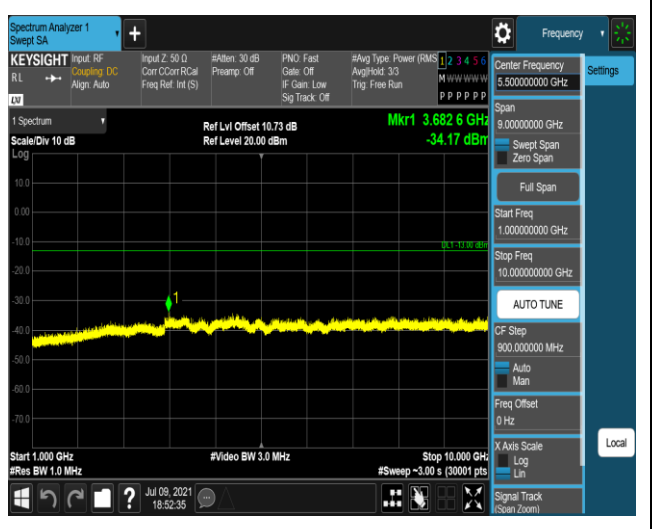
GSM850-251-3-0.009~0.15MHz



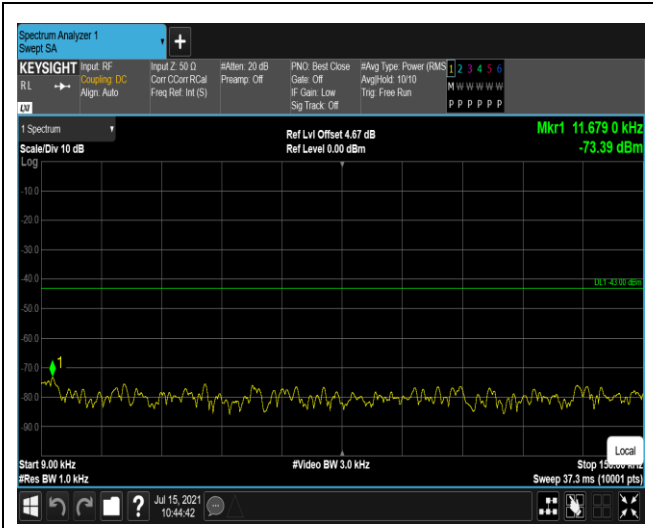
GSM850-251-3-0.15~30MHz



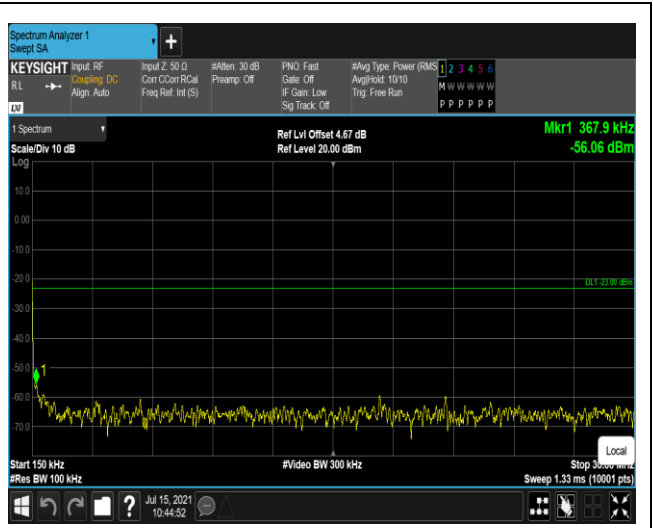
GSM850-251-3-30~1000MHz



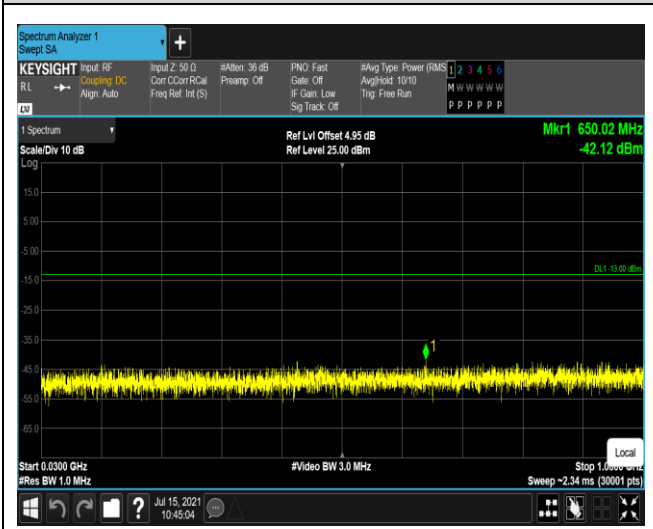
GSM850-251-3-1000~10000MHz



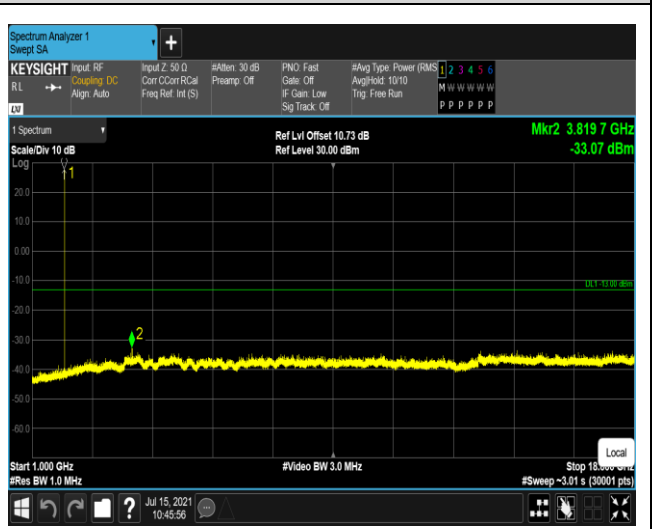
GSM1900-512-0-0.009~0.15MHz



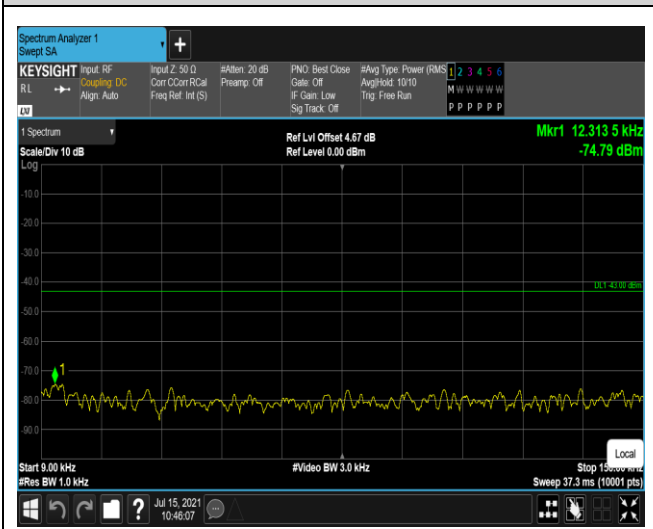
GSM1900-512-0-0.15~30MHz



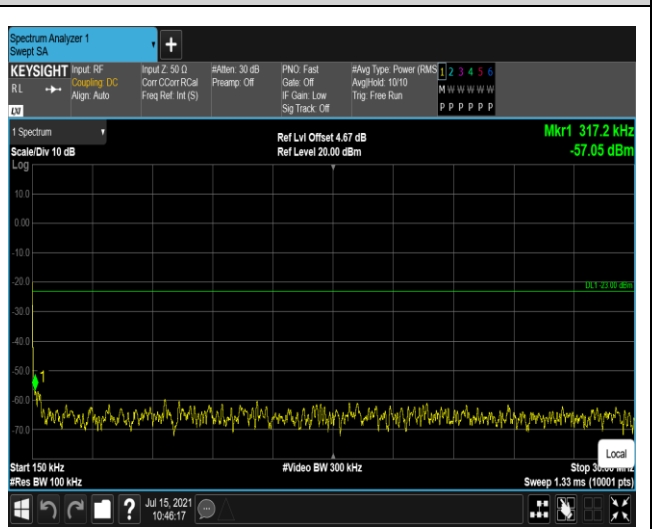
GSM1900-512-0-30~1000MHz



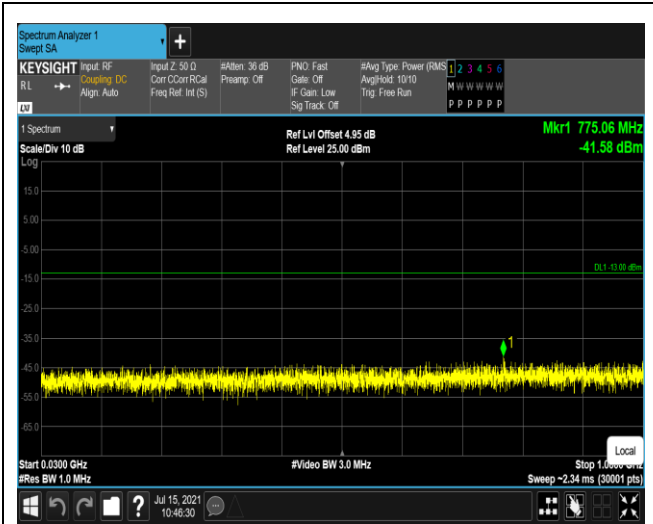
GSM1900-512-0-1000~18000MHz



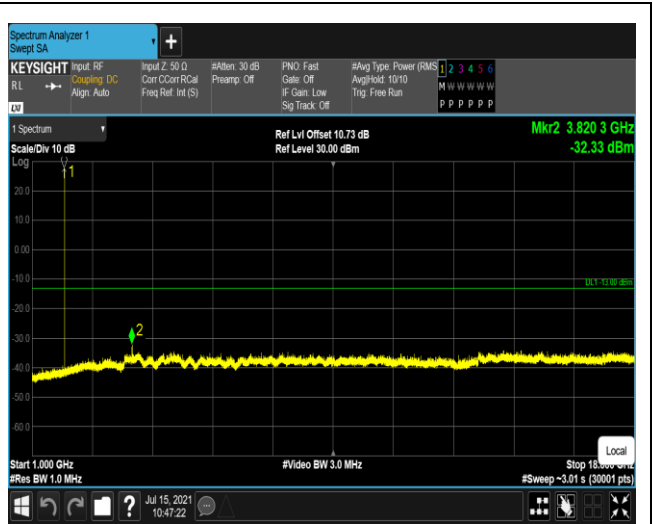
GSM1900-661-0-0.009~0.15MHz



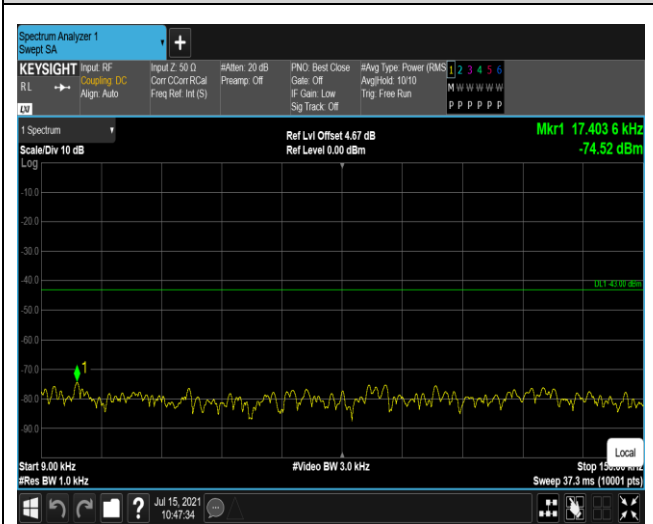
GSM1900-661-0-0.15~30MHz



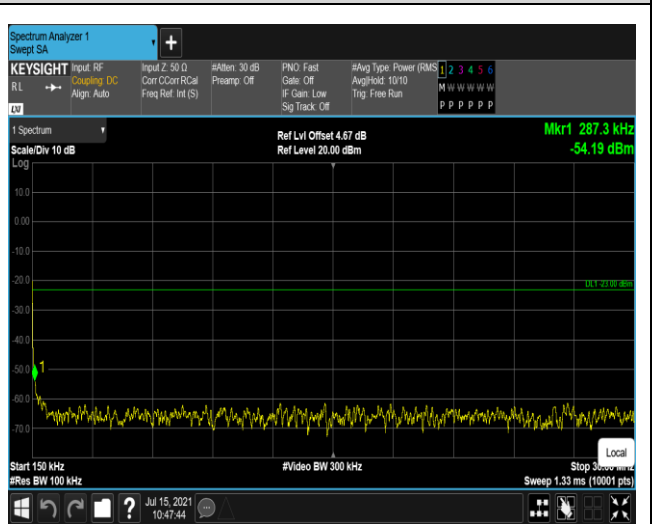
GSM1900-661-0-30~1000MHz



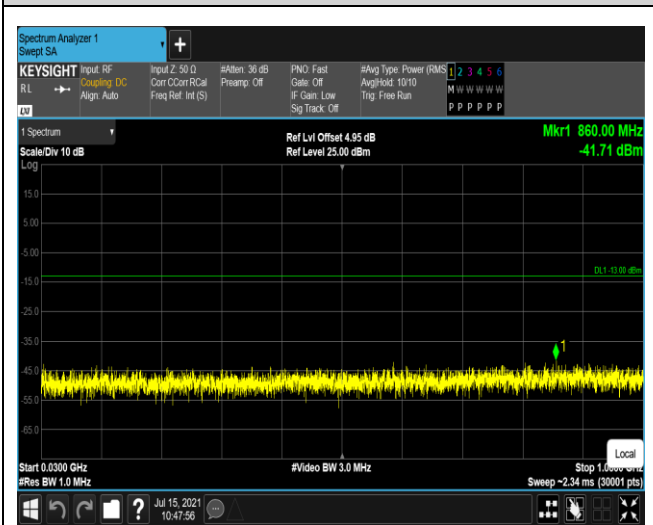
GSM1900-661-0-1000~18000MHz



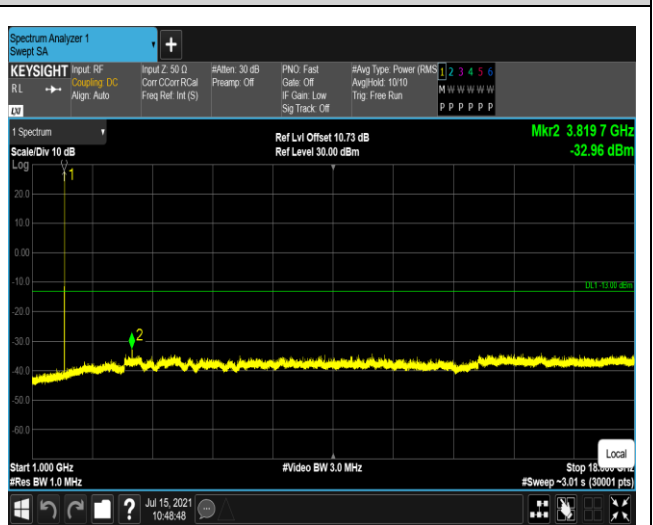
GSM1900-810-0-0.009~0.15MHz



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		
3.80	-30	22.66	0.027086	±2.5	Pass
	-20	21.53	0.025735		
	-10	23.34	0.027899		
	0	21.60	0.025819		
	10	20.89	0.024970		
	20	18.18	0.021731		
	30	22.92	0.027397		
	40	15.76	0.018838		
	50	21.37	0.025544		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	16.27	0.019448	±2.5	Pass
	3.80	19.18	0.022926		
	4.37	19.98	0.023882		
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		
3.80	-30	11.07	0.005888	Within authorized band for PCS 1900	Pass
	-20	12.91	0.006867		
	-10	12.56	0.006681		
	0	15.01	0.007984		
	10	15.76	0.008383		
	20	9.94	0.005287		
	30	8.94	0.004755		
	40	23.54	0.012521		
	50	13.33	0.007090		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	6.39	0.003399	Within authorized band for PCS 1900	Pass
	3.80	14.75	0.007846		
	4.37	19.50	0.010372		
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

