

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power (dBm)	Gain(dBi)	E(I)RP (dBm)	Limit(dBm)	Verdict
GSM1900	512	29.98	1.59	31.57	33	PASS
GSM1900	661	30.34	1.59	31.93	33	PASS
GSM1900	810	30.17	1.59	31.76	33	PASS

Band	Channel	Up Slot Num	Power(dBm)	Gain(dBi)	E(I)RP (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	30.01	1.59	31.6	33	PASS
GPRS1900	661	1	30.29	1.59	31.88	33	PASS
GPRS1900	810	1	30.10	1.59	31.69	33	PASS
GPRS1900	512	2	28.93	1.59	30.52	33	PASS
GPRS1900	661	2	28.98	1.59	30.57	33	PASS
GPRS1900	810	2	29.25	1.59	30.84	33	PASS
GPRS1900	512	3	27.42	1.59	29.01	33	PASS
GPRS1900	661	3	27.48	1.59	29.07	33	PASS
GPRS1900	810	3	27.54	1.59	29.13	33	PASS
GPRS1900	512	4	26.29	1.59	27.88	33	PASS
GPRS1900	661	4	26.37	1.59	27.96	33	PASS
GPRS1900	810	4	26.65	1.59	28.24	33	PASS

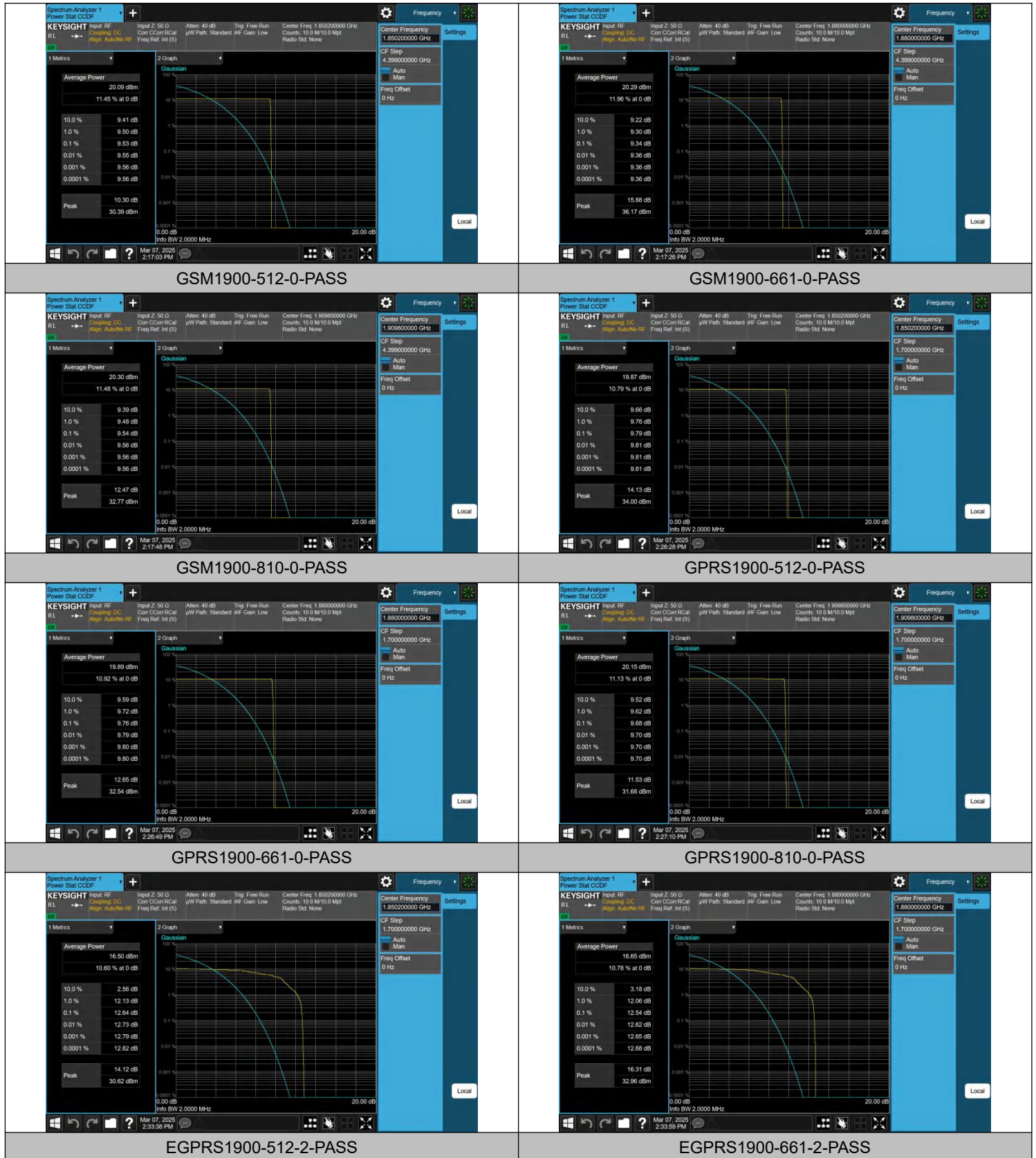
Band	Channel	Up Slot Num	Power(dBm)	Gain(dBi)	E(I)RP (dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.55	1.59	28.14	33	PASS
EGPRS1900	661	1	26.44	1.59	28.03	33	PASS
EGPRS1900	810	1	26.43	1.59	28.02	33	PASS
EGPRS1900	512	2	25.92	1.59	27.51	33	PASS
EGPRS1900	661	2	25.88	1.59	27.47	33	PASS
EGPRS1900	810	2	25.88	1.59	27.47	33	PASS
EGPRS1900	512	3	24.77	1.59	26.36	33	PASS
EGPRS1900	661	3	24.74	1.59	26.33	33	PASS
EGPRS1900	810	3	24.75	1.59	26.34	33	PASS
EGPRS1900	512	4	23.62	1.59	25.21	33	PASS
EGPRS1900	661	4	23.56	1.59	25.15	33	PASS
EGPRS1900	810	4	23.61	1.59	25.2	33	PASS

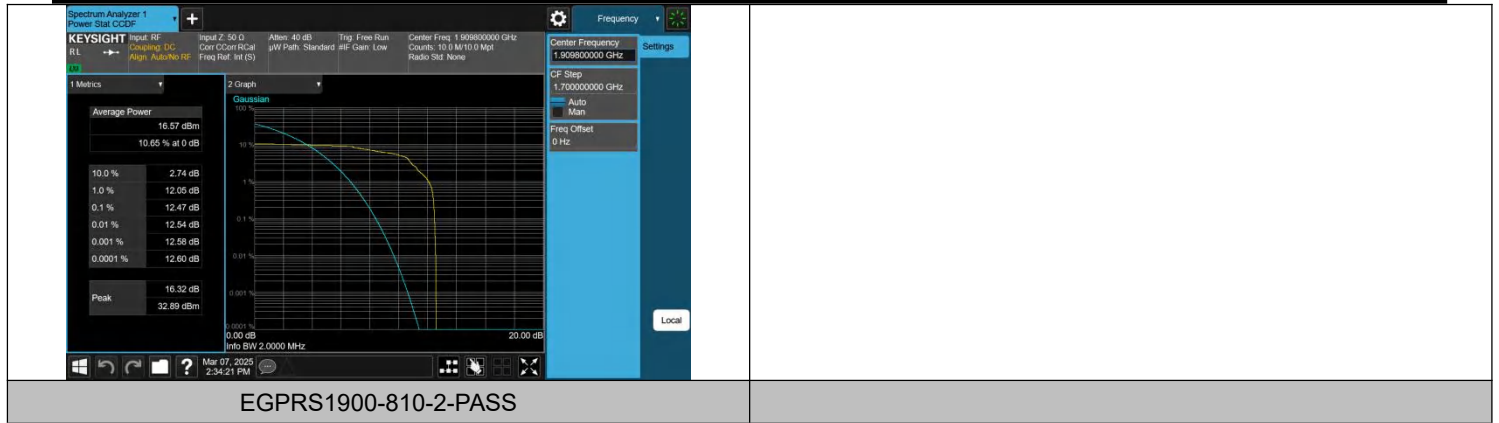
Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	9.53	13	PASS
GSM1900	661	9.34	13	PASS
GSM1900	810	9.54	13	PASS
GPRS1900	512	9.79	13	PASS
GPRS1900	661	9.76	13	PASS
GPRS1900	810	9.68	13	PASS
EGPRS1900	512	12.64	13	PASS
EGPRS1900	661	12.54	13	PASS
EGPRS1900	810	12.47	13	PASS

Test Graphs



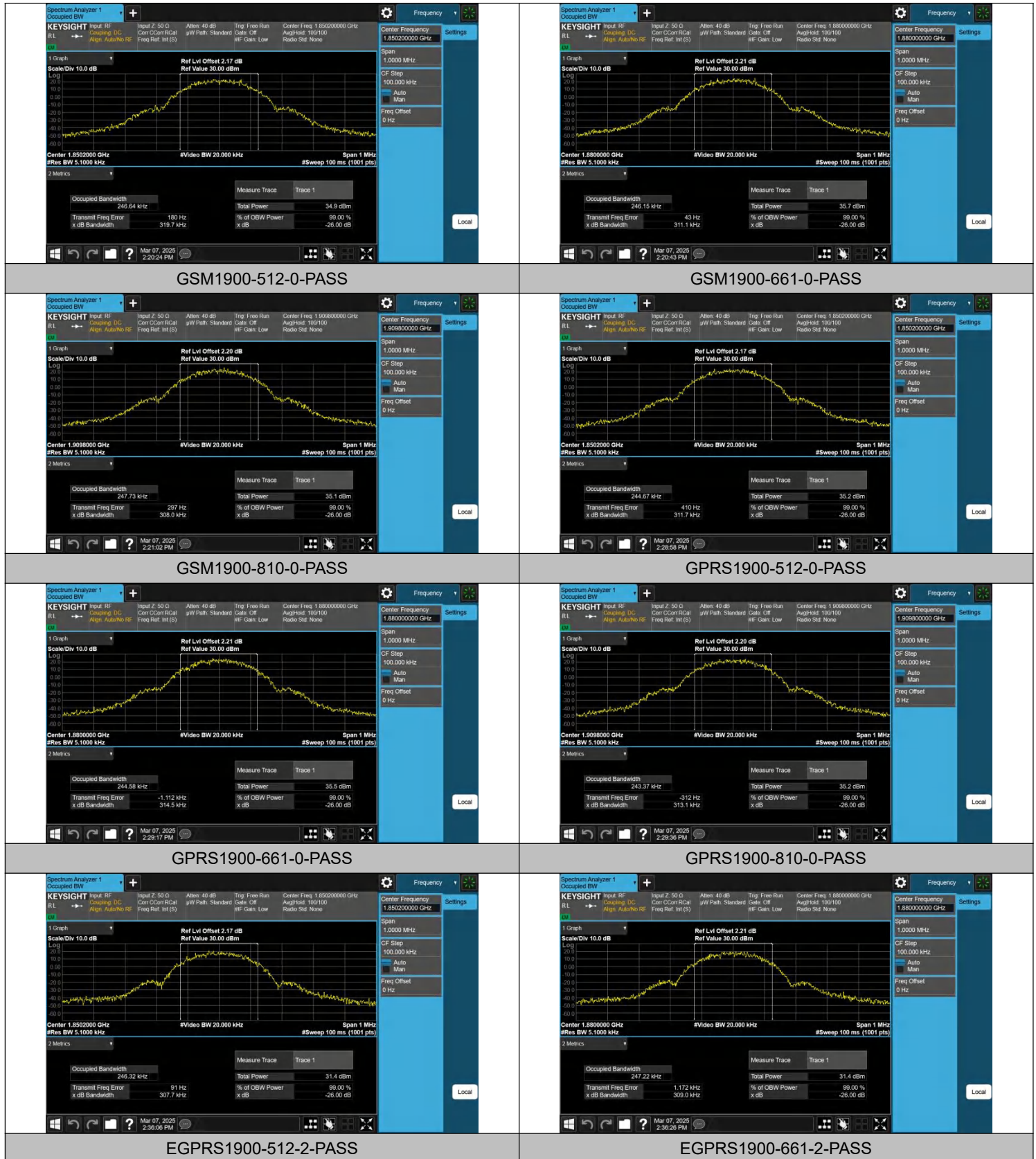


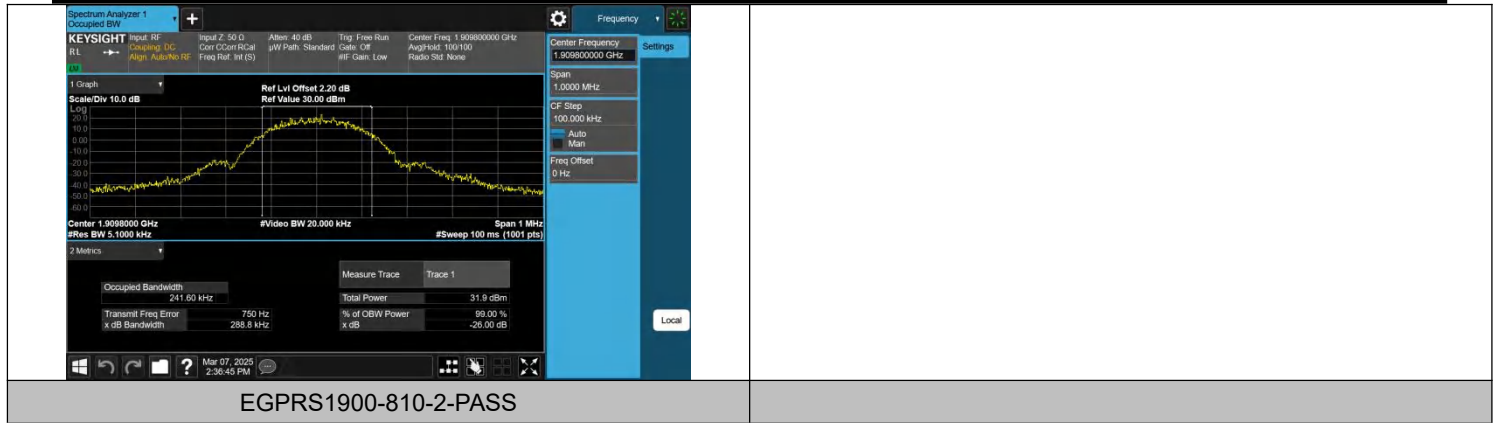
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
GSM1900	512	0.24664	0.3197	PASS
GSM1900	661	0.24615	0.3111	PASS
GSM1900	810	0.24773	0.3080	PASS
GPRS1900	512	0.24467	0.3117	PASS
GPRS1900	661	0.24458	0.3145	PASS
GPRS1900	810	0.24337	0.3131	PASS
EGPRS1900	512	0.24632	0.3077	PASS
EGPRS1900	661	0.24722	0.3090	PASS
EGPRS1900	810	0.24160	0.2888	PASS

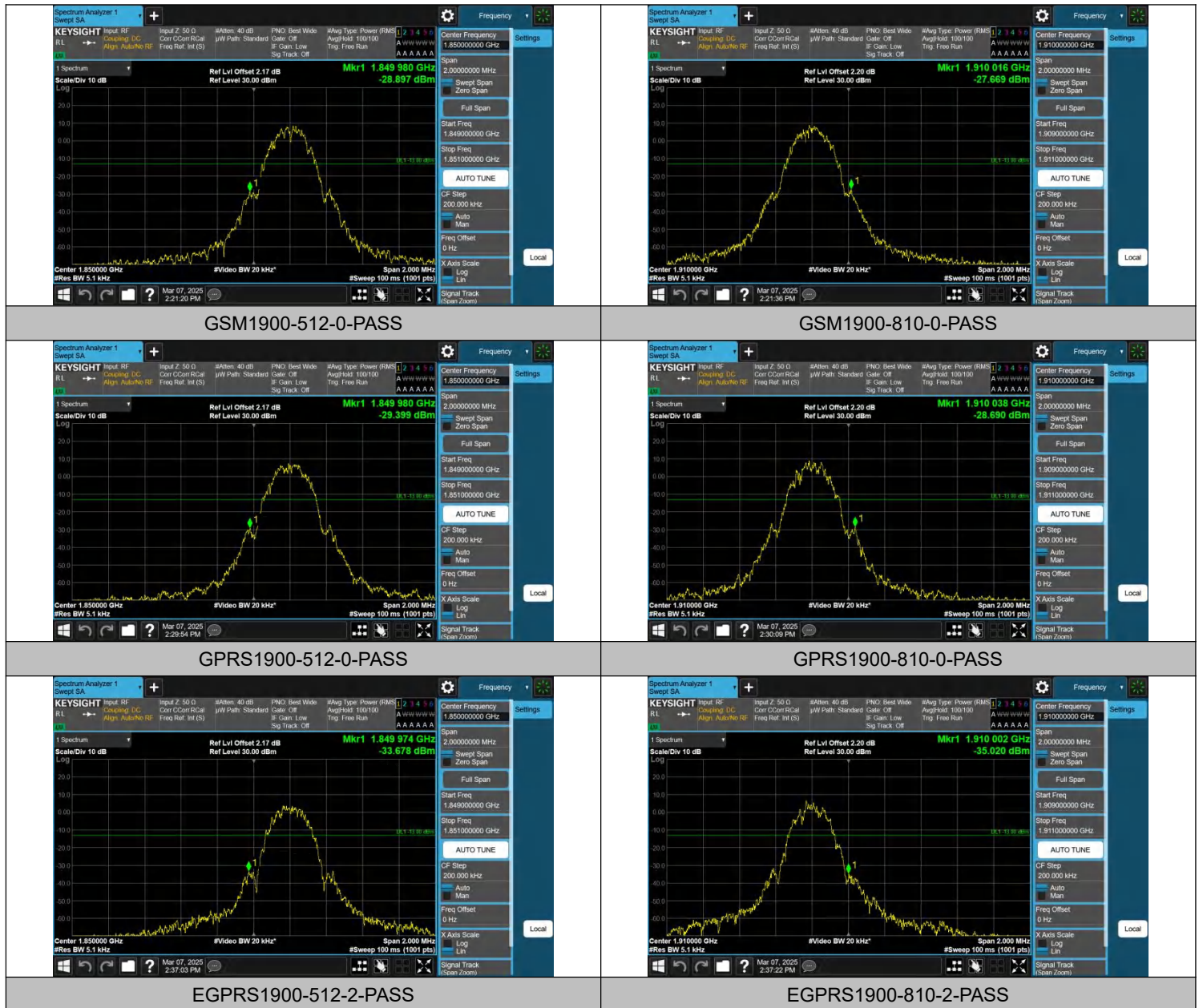
Test Graphs





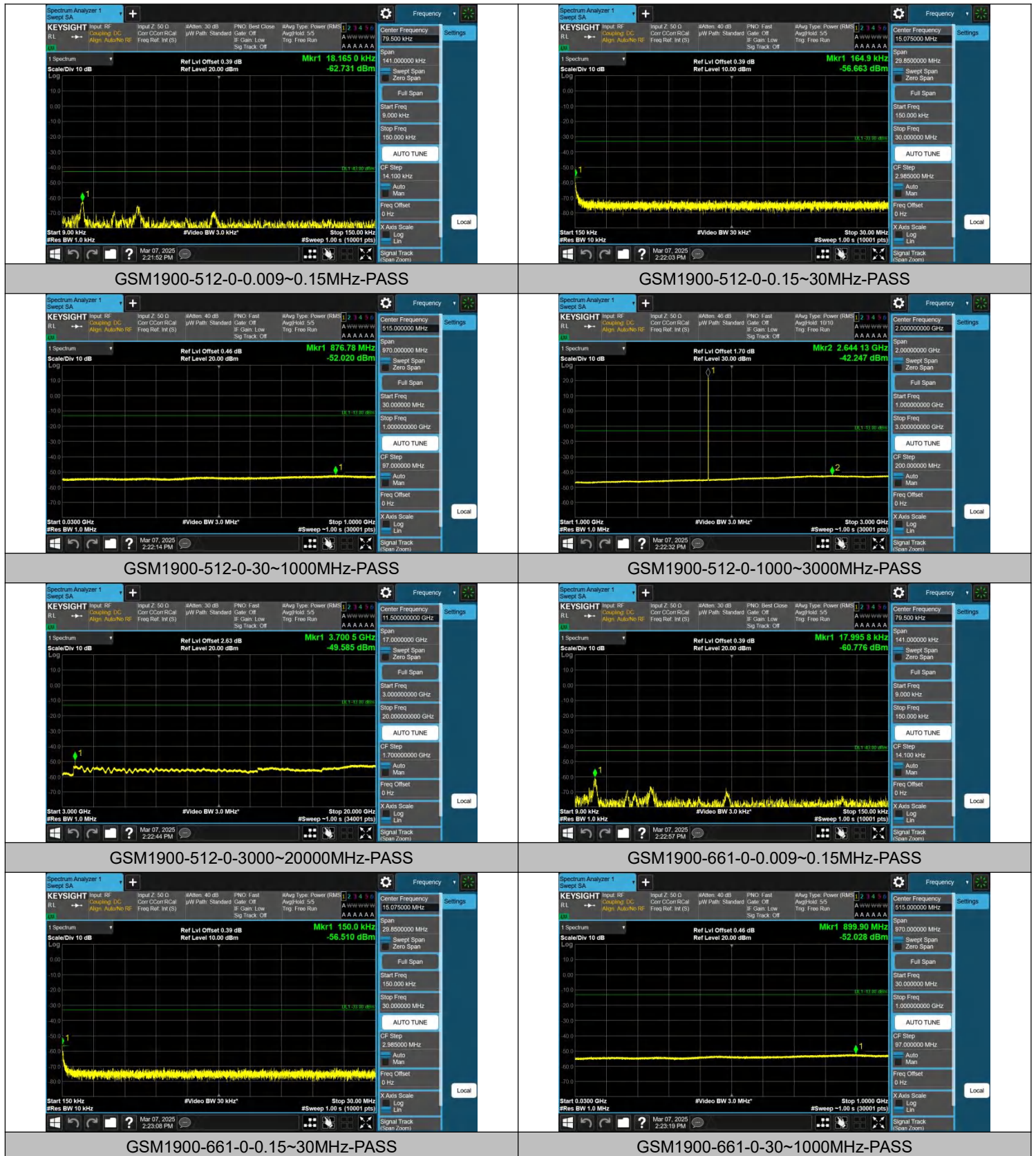
Band Edge

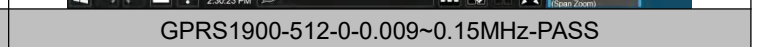
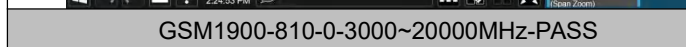
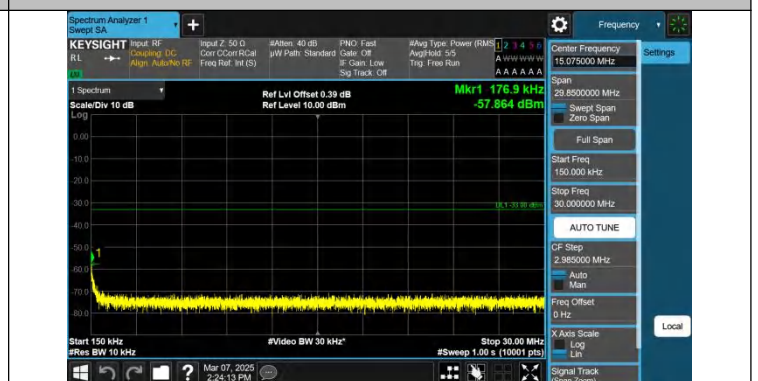
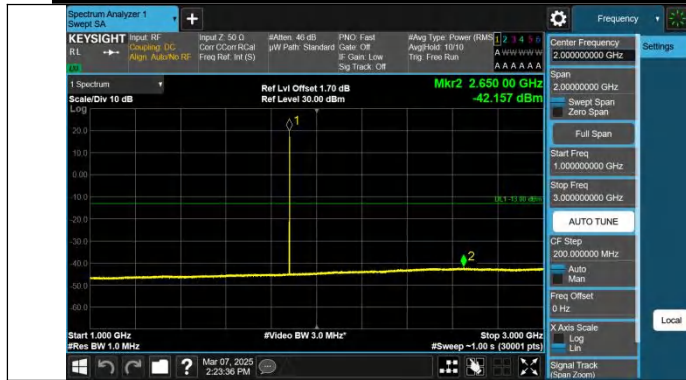
Test Graphs

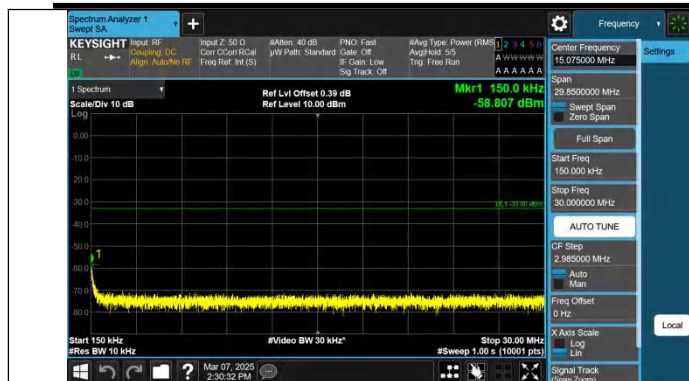


Conducted Spurious Emission

Test Graphs







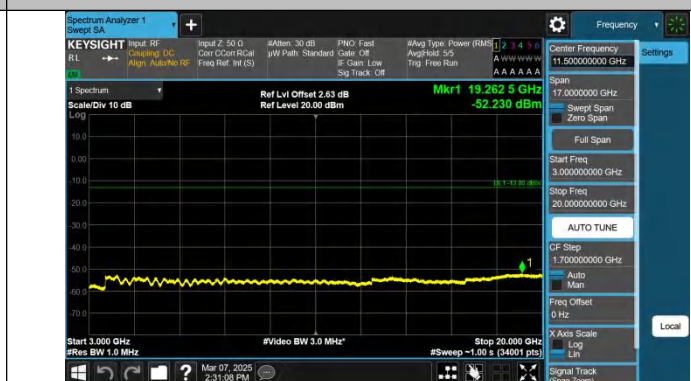
GPRS1900-512-0-0.15~30MHz-PASS



GPRS1900-512-0-30~1000MHz-PASS



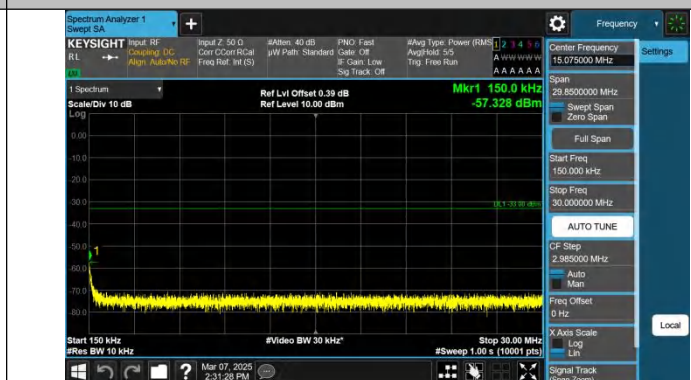
GPRS1900-512-0-1000~3000MHz-PASS



GPRS1900-512-0-3000~20000MHz-PASS



GPRS1900-661-0-0.009~0.15MHz-PASS



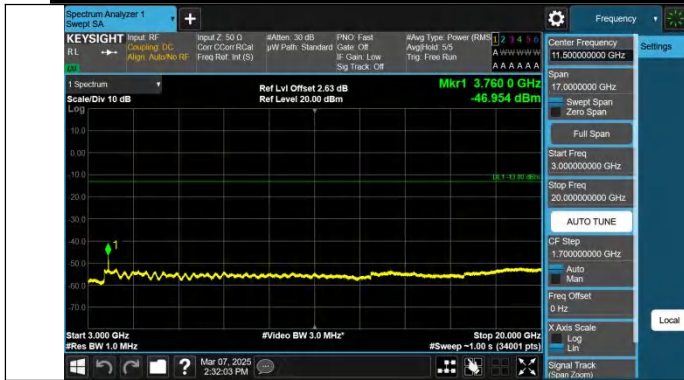
GPRS1900-661-0-0.15~30MHz-PASS



GPRS1900-661-0-30~1000MHz-PASS



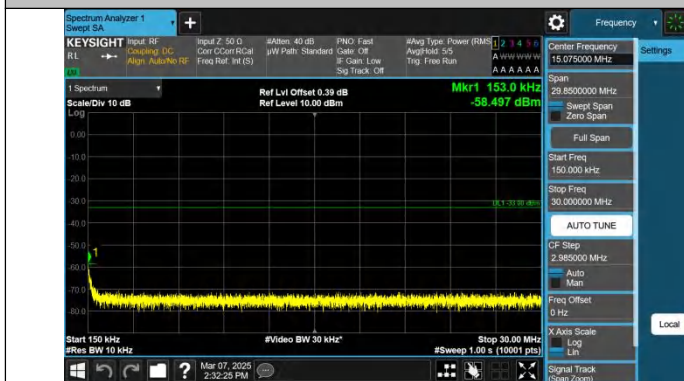
GPRS1900-661-0-1000~3000MHz-PASS



GPRS1900-661-0-3000~20000MHz-PASS



GPRS1900-810-0-0.009~0.15MHz-PASS



GPRS1900-810-0-0.15~30MHz-PASS



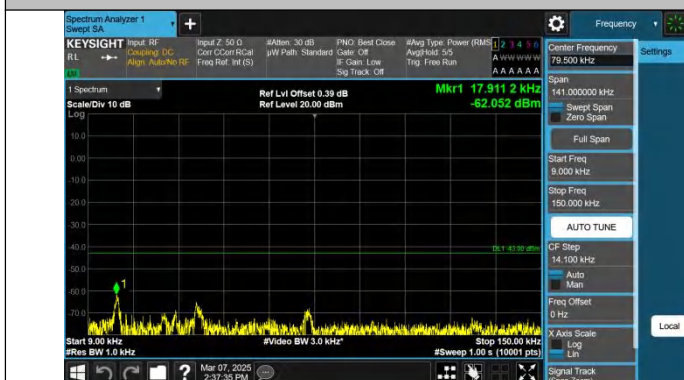
GPRS1900-810-0-30~1000MHz-PASS



GPRS1900-810-0-1000~3000MHz-PASS



GPRS1900-810-0-3000~20000MHz-PASS



EGPRS1900-512-2-0.009~0.15MHz-PASS



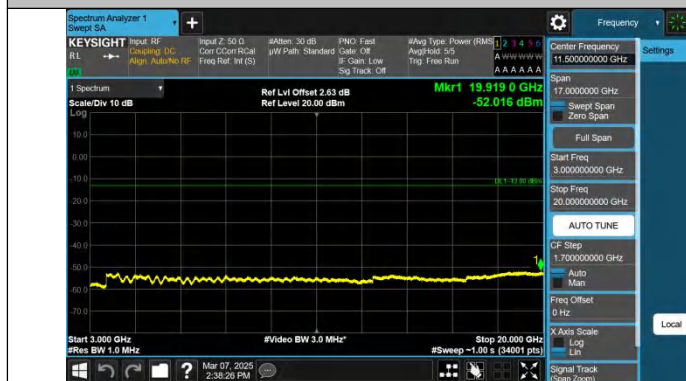
EGPRS1900-512-2-0.15~30MHz-PASS



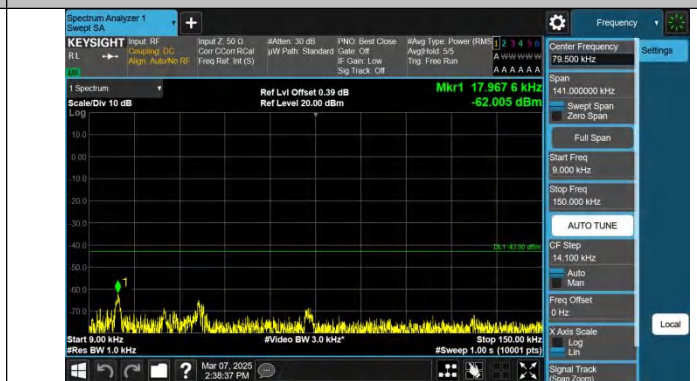
EGPRS1900-512-2-30~1000MHz-PASS



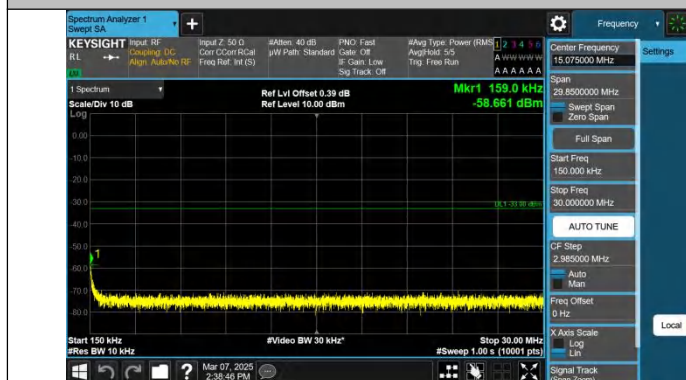
EGPRS1900-512-2-1000~3000MHz-PASS



EGPRS1900-512-2-3000~20000MHz-PASS



EGPRS1900-661-2-0.009~0.15MHz-PASS



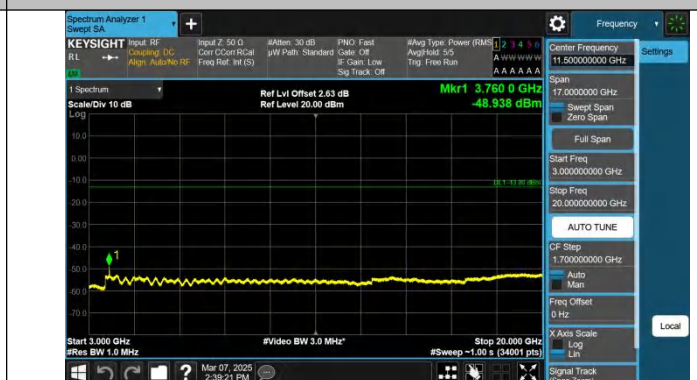
EGPRS1900-661-2-0.15~30MHz-PASS



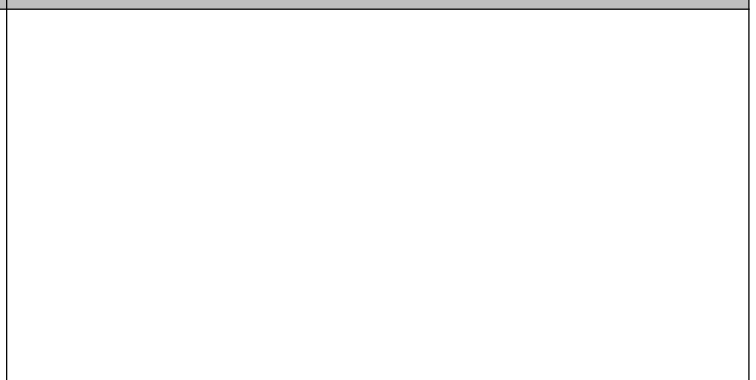
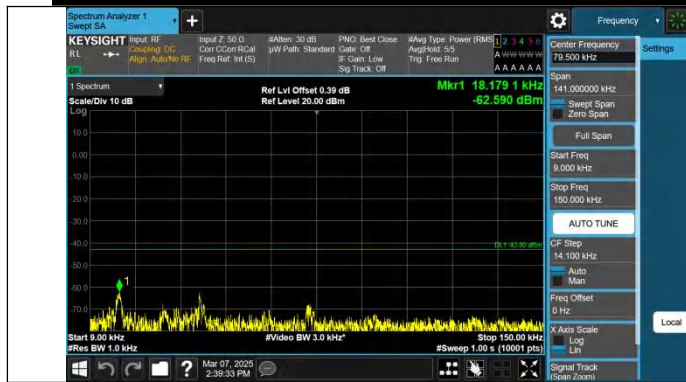
EGPRS1900-661-2-30~1000MHz-PASS



EGPRS1900-661-2-1000~3000MHz-PASS



EGPRS1900-661-2-3000~20000MHz-PASS



Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VN	NT	16.13	0.008718	±2.5	PASS
GSM1900	512	VL	NT	12.64	0.006832	±2.5	PASS
GSM1900	512	VH	NT	14.38	0.007772	±2.5	PASS
GSM1900	661	VN	NT	16.91	0.008995	±2.5	PASS
GSM1900	661	VL	NT	20.24	0.010766	±2.5	PASS
GSM1900	661	VH	NT	13.52	0.007191	±2.5	PASS
GSM1900	810	VN	NT	16.86	0.008828	±2.5	PASS
GSM1900	810	VL	NT	18.60	0.009739	±2.5	PASS
GSM1900	810	VH	NT	17.50	0.009163	±2.5	PASS
GPRS1900	512	VN	NT	24.56	0.013274	±2.5	PASS
GPRS1900	512	VL	NT	21.19	0.011453	±2.5	PASS
GPRS1900	512	VH	NT	23.54	0.012723	±2.5	PASS
GPRS1900	661	VN	NT	19.50	0.010372	±2.5	PASS
GPRS1900	661	VL	NT	23.26	0.012372	±2.5	PASS
GPRS1900	661	VH	NT	22.55	0.011995	±2.5	PASS
GPRS1900	810	VN	NT	23.06	0.012075	±2.5	PASS
GPRS1900	810	VL	NT	22.92	0.012001	±2.5	PASS
GPRS1900	810	VH	NT	24.81	0.012991	±2.5	PASS
EGPRS1900	512	VN	NT	21.16	0.011437	±2.5	PASS
EGPRS1900	512	VL	NT	20.75	0.011215	±2.5	PASS
EGPRS1900	512	VH	NT	19.58	0.010583	±2.5	PASS
EGPRS1900	661	VN	NT	22.43	0.011931	±2.5	PASS
EGPRS1900	661	VL	NT	24.76	0.013170	±2.5	PASS
EGPRS1900	661	VH	NT	22.98	0.012223	±2.5	PASS
EGPRS1900	810	VN	NT	26.54	0.013897	±2.5	PASS
EGPRS1900	810	VL	NT	27.03	0.014153	±2.5	PASS
EGPRS1900	810	VH	NT	24.11	0.012624	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	14.34	0.007751	±2.5	PASS
GSM1900	512	NV	-20	14.03	0.007583	±2.5	PASS
GSM1900	512	NV	-10	16.82	0.009091	±2.5	PASS
GSM1900	512	NV	0	18.93	0.010231	±2.5	PASS
GSM1900	512	NV	10	12.45	0.006729	±2.5	PASS

GSM1900	512	NV	20	18.36	0.009923	±2.5	PASS
GSM1900	512	NV	30	18.60	0.010053	±2.5	PASS
GSM1900	512	NV	40	17.65	0.009540	±2.5	PASS
GSM1900	512	NV	50	16.84	0.009102	±2.5	PASS
GSM1900	661	NV	-30	17.12	0.009106	±2.5	PASS
GSM1900	661	NV	-20	16.74	0.008904	±2.5	PASS
GSM1900	661	NV	-10	17.10	0.009096	±2.5	PASS
GSM1900	661	NV	0	14.64	0.007787	±2.5	PASS
GSM1900	661	NV	10	17.02	0.009053	±2.5	PASS
GSM1900	661	NV	20	16.52	0.008787	±2.5	PASS
GSM1900	661	NV	30	16.37	0.008707	±2.5	PASS
GSM1900	661	NV	40	18.07	0.009612	±2.5	PASS
GSM1900	661	NV	50	15.19	0.008080	±2.5	PASS
GSM1900	810	NV	-30	18.02	0.009436	±2.5	PASS
GSM1900	810	NV	-20	20.99	0.010991	±2.5	PASS
GSM1900	810	NV	-10	18.94	0.009917	±2.5	PASS
GSM1900	810	NV	0	22.13	0.011588	±2.5	PASS
GSM1900	810	NV	10	19.43	0.010174	±2.5	PASS
GSM1900	810	NV	20	19.22	0.010064	±2.5	PASS
GSM1900	810	NV	30	18.62	0.009750	±2.5	PASS
GSM1900	810	NV	40	19.70	0.010315	±2.5	PASS
GSM1900	810	NV	50	21.09	0.011043	±2.5	PASS
GPRS1900	512	NV	-30	22.86	0.012355	±2.5	PASS
GPRS1900	512	NV	-20	21.63	0.011691	±2.5	PASS
GPRS1900	512	NV	-10	24.13	0.013042	±2.5	PASS
GPRS1900	512	NV	0	22.01	0.011896	±2.5	PASS
GPRS1900	512	NV	10	22.82	0.012334	±2.5	PASS
GPRS1900	512	NV	20	21.44	0.011588	±2.5	PASS
GPRS1900	512	NV	30	20.26	0.010950	±2.5	PASS
GPRS1900	512	NV	40	23.00	0.012431	±2.5	PASS
GPRS1900	512	NV	50	24.26	0.013112	±2.5	PASS
GPRS1900	661	NV	-30	22.42	0.011926	±2.5	PASS
GPRS1900	661	NV	-20	24.73	0.013154	±2.5	PASS
GPRS1900	661	NV	-10	22.02	0.011713	±2.5	PASS
GPRS1900	661	NV	0	21.18	0.011266	±2.5	PASS
GPRS1900	661	NV	10	28.14	0.014968	±2.5	PASS
GPRS1900	661	NV	20	25.35	0.013484	±2.5	PASS
GPRS1900	661	NV	30	23.38	0.012436	±2.5	PASS
GPRS1900	661	NV	40	22.51	0.011973	±2.5	PASS
GPRS1900	661	NV	50	23.21	0.012346	±2.5	PASS
GPRS1900	810	NV	-30	25.76	0.013488	±2.5	PASS

GPRS1900	810	NV	-20	25.45	0.013326	±2.5	PASS
GPRS1900	810	NV	-10	23.55	0.012331	±2.5	PASS
GPRS1900	810	NV	0	24.17	0.012656	±2.5	PASS
GPRS1900	810	NV	10	24.50	0.012829	±2.5	PASS
GPRS1900	810	NV	20	24.25	0.012698	±2.5	PASS
GPRS1900	810	NV	30	24.77	0.012970	±2.5	PASS
GPRS1900	810	NV	40	23.05	0.012069	±2.5	PASS
GPRS1900	810	NV	50	24.90	0.013038	±2.5	PASS
EGPRS1900	512	NV	-30	19.02	0.010280	±2.5	PASS
EGPRS1900	512	NV	-20	19.87	0.010739	±2.5	PASS
EGPRS1900	512	NV	-10	23.62	0.012766	±2.5	PASS
EGPRS1900	512	NV	0	22.30	0.012053	±2.5	PASS
EGPRS1900	512	NV	10	19.59	0.010588	±2.5	PASS
EGPRS1900	512	NV	20	19.57	0.010577	±2.5	PASS
EGPRS1900	512	NV	30	18.35	0.009918	±2.5	PASS
EGPRS1900	512	NV	40	19.88	0.010745	±2.5	PASS
EGPRS1900	512	NV	50	18.85	0.010188	±2.5	PASS
EGPRS1900	661	NV	-30	21.06	0.011202	±2.5	PASS
EGPRS1900	661	NV	-20	20.40	0.010851	±2.5	PASS
EGPRS1900	661	NV	-10	22.31	0.011867	±2.5	PASS
EGPRS1900	661	NV	0	18.58	0.009883	±2.5	PASS
EGPRS1900	661	NV	10	20.70	0.011011	±2.5	PASS
EGPRS1900	661	NV	20	20.45	0.010878	±2.5	PASS
EGPRS1900	661	NV	30	24.70	0.013138	±2.5	PASS
EGPRS1900	661	NV	40	26.36	0.014021	±2.5	PASS
EGPRS1900	661	NV	50	24.64	0.013106	±2.5	PASS
EGPRS1900	810	NV	-30	28.78	0.015070	±2.5	PASS
EGPRS1900	810	NV	-20	25.38	0.013289	±2.5	PASS
EGPRS1900	810	NV	-10	27.72	0.014515	±2.5	PASS
EGPRS1900	810	NV	0	29.77	0.015588	±2.5	PASS
EGPRS1900	810	NV	10	24.60	0.012881	±2.5	PASS
EGPRS1900	810	NV	20	24.03	0.012582	±2.5	PASS
EGPRS1900	810	NV	30	24.60	0.012881	±2.5	PASS
EGPRS1900	810	NV	40	25.57	0.013389	±2.5	PASS
EGPRS1900	810	NV	50	28.24	0.014787	±2.5	PASS

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