

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power (dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	29.97	30.22	33	PASS
GSM1900	661	30.1	30.35	33	PASS
GSM1900	810	30.04	30.29	33	PASS

Band	Channel	Up Slot Num	Power(dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	29.98	30.23	33	PASS
GPRS1900	661	1	30.05	30.3	33	PASS
GPRS1900	810	1	29.99	30.24	33	PASS
GPRS1900	512	2	28.67	28.92	33	PASS
GPRS1900	661	2	28.79	29.04	33	PASS
GPRS1900	810	2	28.71	28.96	33	PASS
GPRS1900	512	3	26.66	26.91	33	PASS
GPRS1900	661	3	26.76	27.01	33	PASS
GPRS1900	810	3	26.66	26.91	33	PASS
GPRS1900	512	4	24.95	25.2	33	PASS
GPRS1900	661	4	25	25.25	33	PASS
GPRS1900	810	4	24.34	24.59	33	PASS

Band	Channel	Up Slot Num	Power(dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.04	26.29	33	PASS
EGPRS1900	661	1	26.03	26.28	33	PASS
EGPRS1900	810	1	25.95	26.2	33	PASS
EGPRS1900	512	2	25.35	25.6	33	PASS
EGPRS1900	661	2	25.44	25.69	33	PASS
EGPRS1900	810	2	25.19	25.44	33	PASS
EGPRS1900	512	3	23.65	23.9	33	PASS
EGPRS1900	661	3	23.81	24.06	33	PASS
EGPRS1900	810	3	23.65	23.9	33	PASS

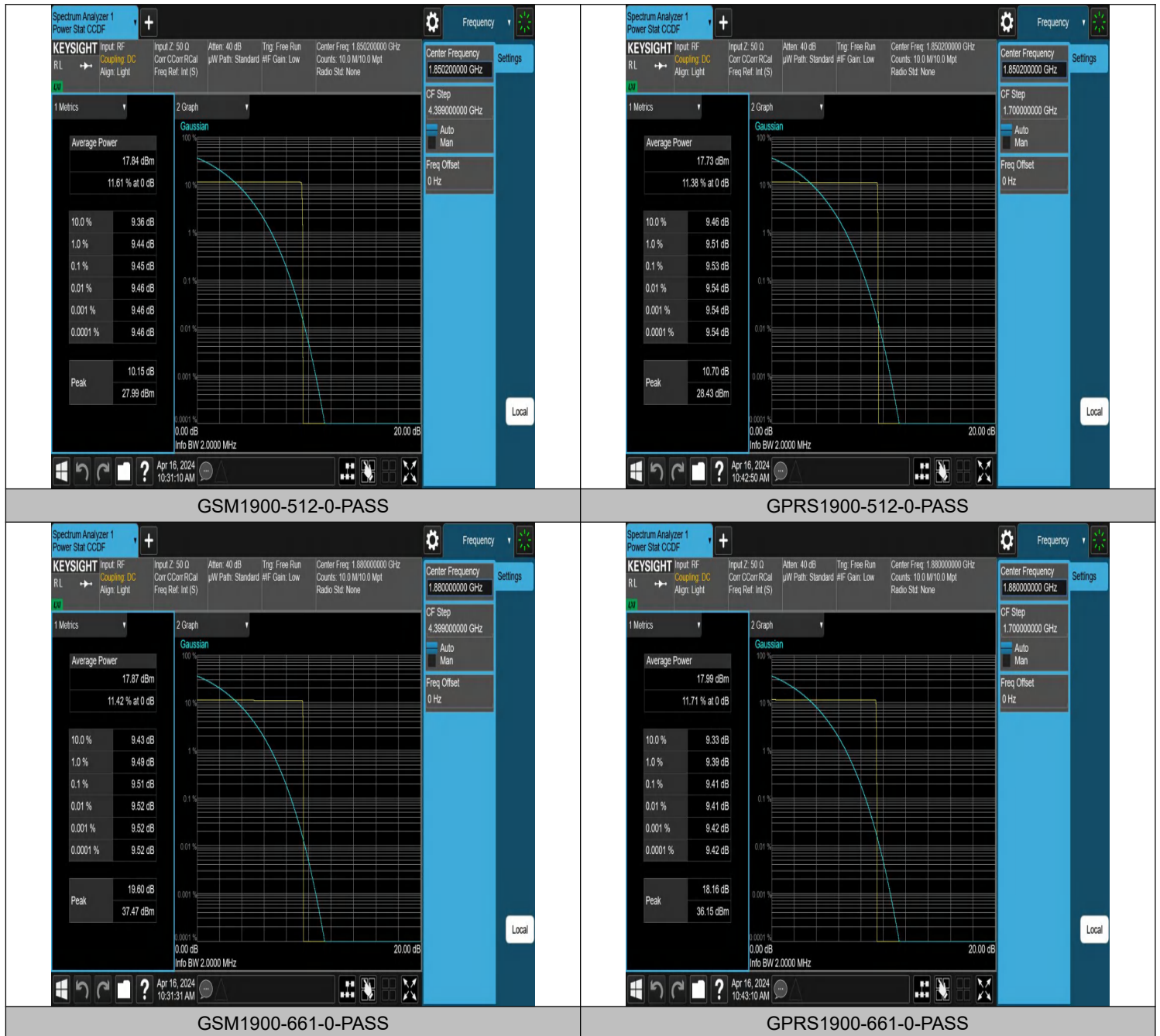
EGPRS1900	512	4	22.14	22.39	33	PASS
EGPRS1900	661	4	22.19	22.44	33	PASS
EGPRS1900	810	4	21.97	22.22	33	PASS

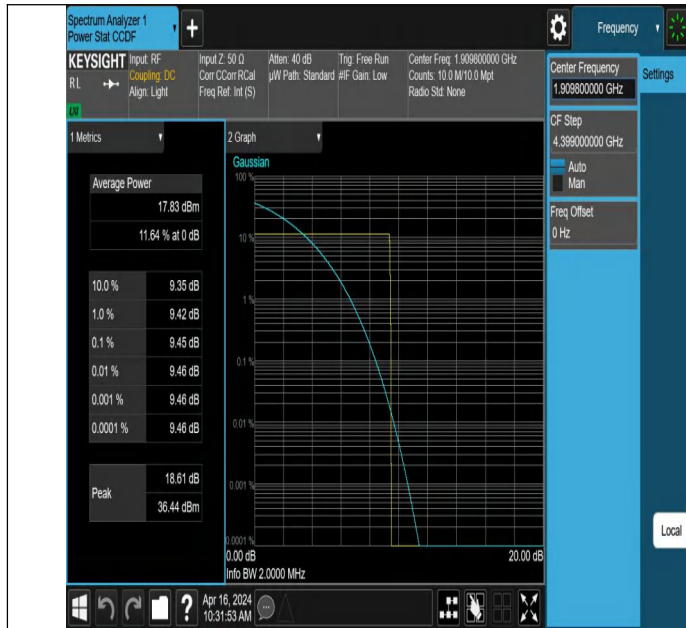
Peak-to-Average Ratio(CCDF)

Test Result

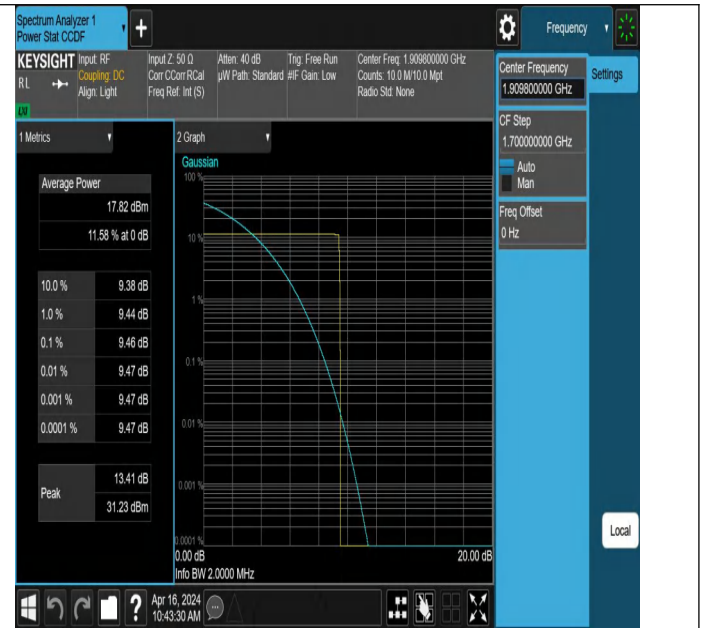
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	9.45	13	PASS
GPRS1900	512	9.53	13	PASS
GSM1900	661	9.51	13	PASS
GPRS1900	661	9.41	13	PASS
GSM1900	810	9.45	13	PASS
GPRS1900	810	9.46	13	PASS
EGPRS1900	512	12.66	13	PASS
EGPRS1900	661	12.66	13	PASS
EGPRS1900	810	12.65	13	PASS

Test Graphs

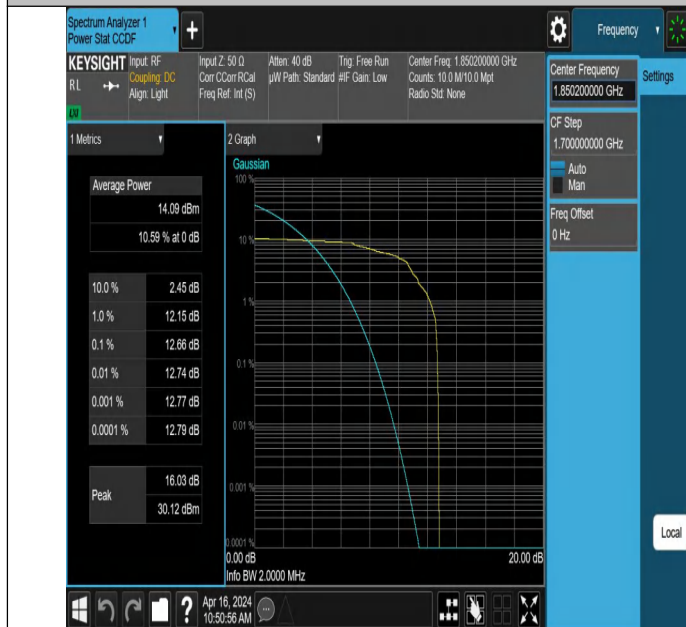




GSM1900-810-0-PASS



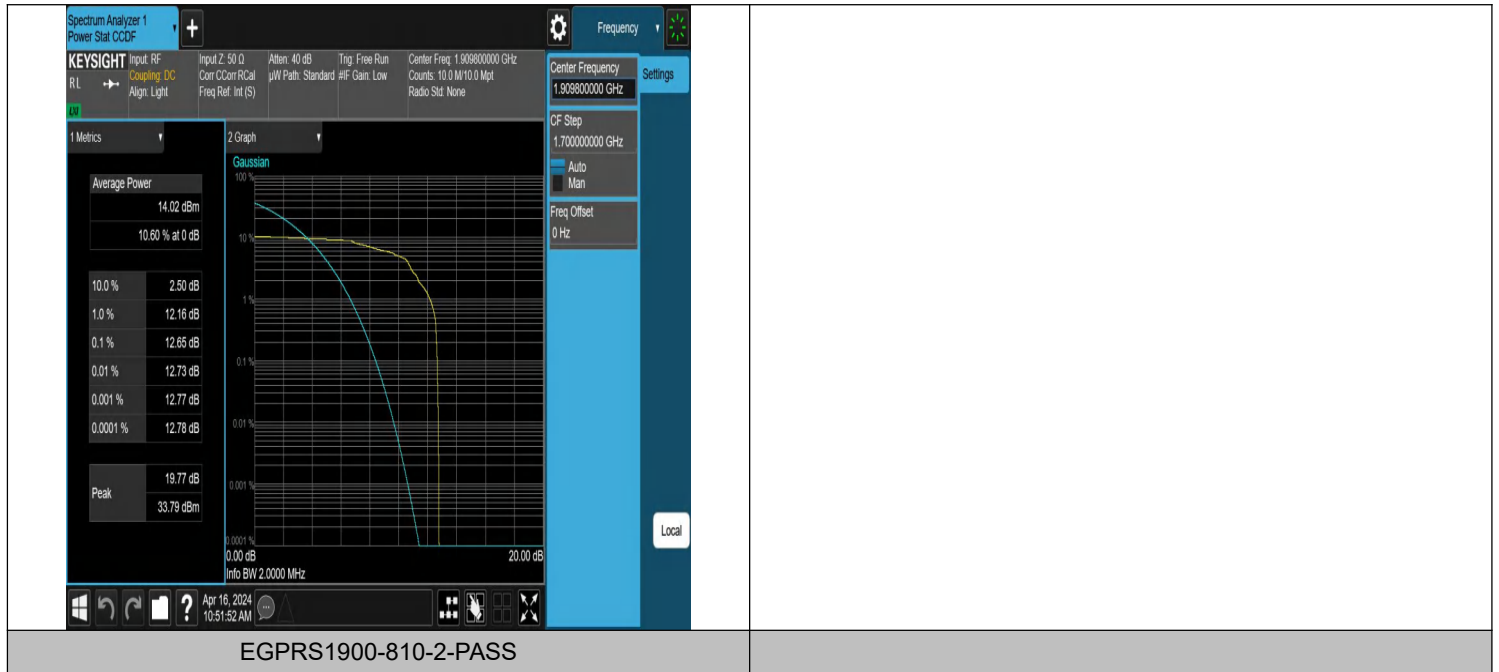
GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS

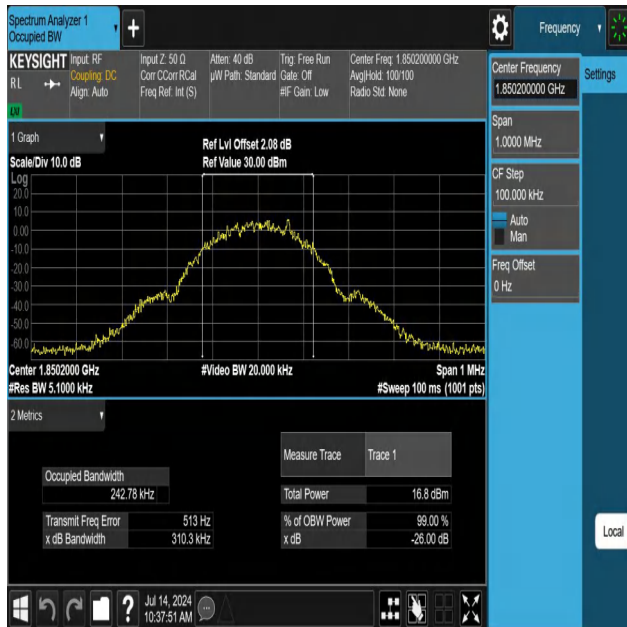


26dB Bandwidth and Occupied Bandwidth

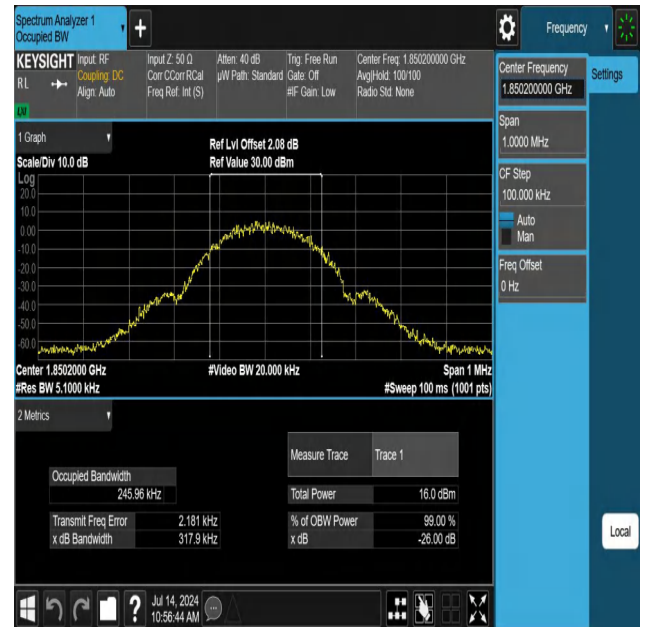
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
GSM1900	512	0.24278	0.3103	PASS
GPRS1900	512	0.24596	0.3179	PASS
GSM1900	661	0.24346	0.3153	PASS
GPRS1900	661	0.24732	0.3151	PASS
GSM1900	810	0.24262	0.3096	PASS
GPRS1900	810	0.24042	0.3101	PASS
EGPRS1900	512	0.24069	0.2978	PASS
EGPRS1900	661	0.24273	0.3099	PASS
EGPRS1900	810	0.23981	0.3099	PASS

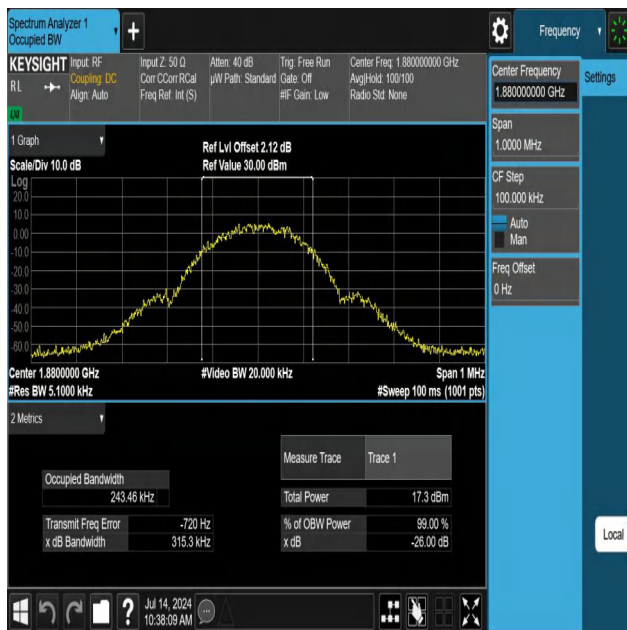
Test Graphs



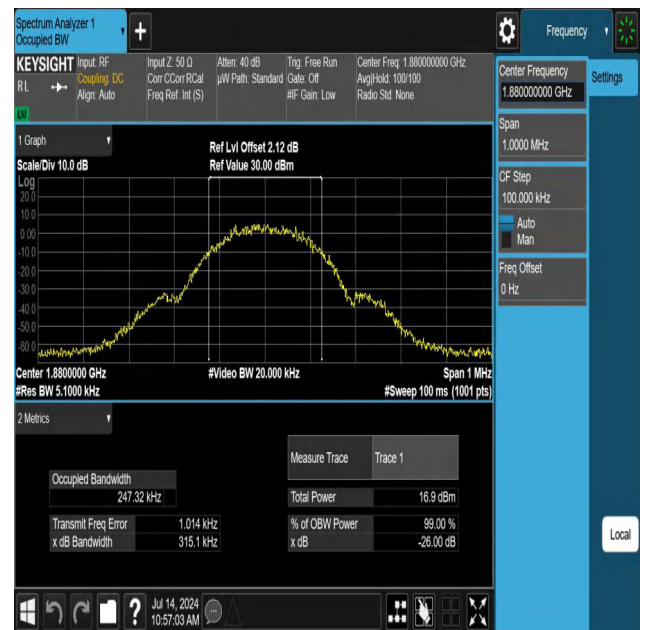
GSM1900-512-0-PASS



GPRS1900-512-0-PASS



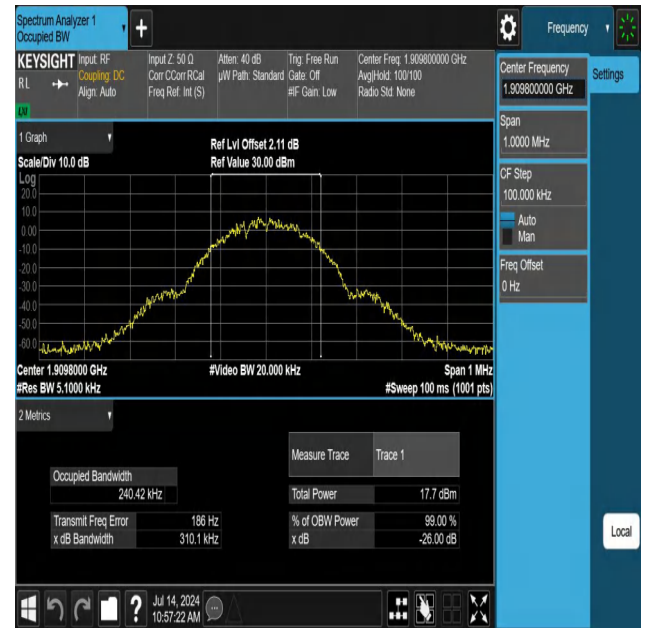
GSM1900-661-0-PASS



GPRS1900-661-0-PASS



GSM1900-810-0-PASS



GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS



EGPRS1900-810-2-PASS

Band Edge

Test Graphs



GSM1900-512-0-PASS

GPRS1900-512-0-PASS



GSM1900-810-0-PASS

GPRS1900-810-0-PASS



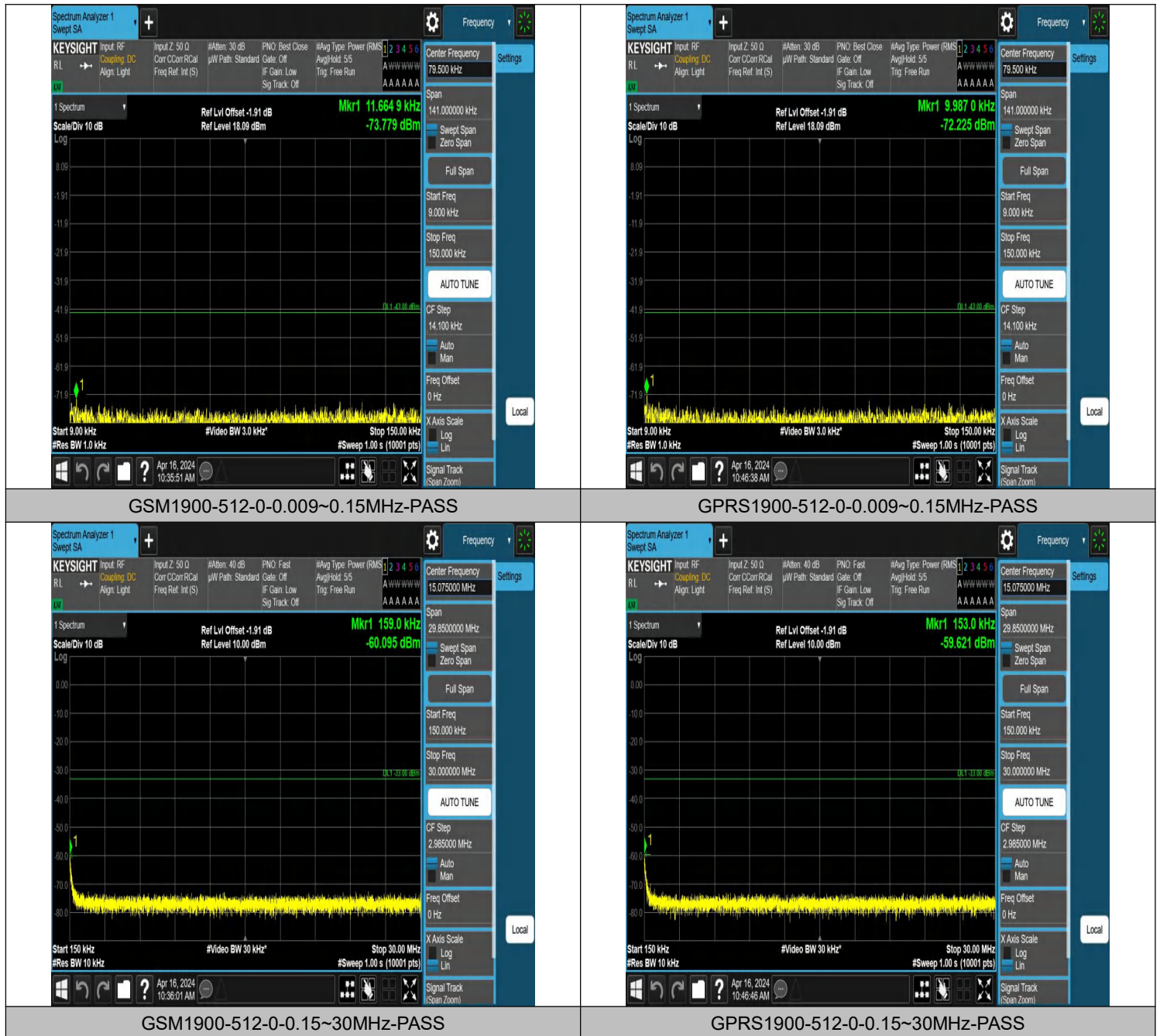
Conducted Spurious Emission

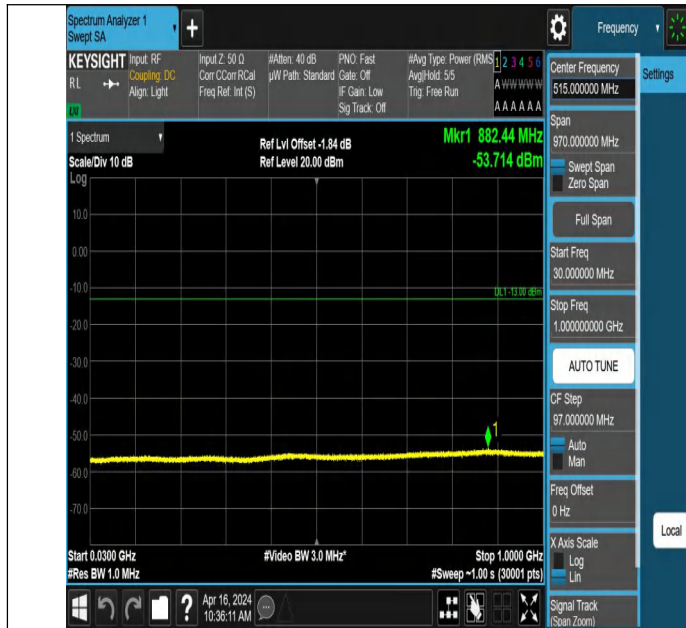
Test Result

Band	Channel	Frequency Range (MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-73.78	-43	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-72.23	-43	PASS
GSM1900	512	0.15~30MHz	0.16	-60.1	-33	PASS
GPRS1900	512	0.15~30MHz	0.15	-59.62	-33	PASS
GSM1900	512	30~1000MHz	882.44	-53.71	-13	PASS
GPRS1900	512	30~1000MHz	880.63	-53.85	-13	PASS
GSM1900	512	1000~3000MHz	2625.13	-43.94	-13	PASS
GPRS1900	512	1000~3000MHz	2650.73	-43.99	-13	PASS
GSM1900	512	3000~20000MHz	3700.5	-54.41	-13	PASS
GPRS1900	512	3000~20000MHz	19234	-55.93	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-72.47	-43	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-74.34	-43	PASS
GSM1900	661	0.15~30MHz	0.17	-60.63	-33	PASS
GPRS1900	661	0.15~30MHz	0.15	-58.78	-33	PASS
GSM1900	661	30~1000MHz	890.45	-53.89	-13	PASS
GPRS1900	661	30~1000MHz	883.15	-53.99	-13	PASS
GSM1900	661	1000~3000MHz	2646.2	-43.81	-13	PASS
GPRS1900	661	1000~3000MHz	2658.67	-43.99	-13	PASS
GSM1900	661	3000~20000MHz	3760	-52.27	-13	PASS
GPRS1900	661	3000~20000MHz	3760	-52.63	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-74.01	-43	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-72.98	-43	PASS
GSM1900	810	0.15~30MHz	0.15	-59.41	-33	PASS
GPRS1900	810	0.15~30MHz	0.18	-60.15	-33	PASS
GSM1900	810	30~1000MHz	870.57	-53.8	-13	PASS
GPRS1900	810	30~1000MHz	877.26	-53.71	-13	PASS
GSM1900	810	1000~3000MHz	2655.2	-43.94	-13	PASS
GPRS1900	810	1000~3000MHz	2986.07	-43.89	-13	PASS
GSM1900	810	3000~20000MHz	19205	-55.89	-13	PASS
GPRS1900	810	3000~20000MHz	3819.5	-50.24	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.02	-73.67	-43	PASS
EGPRS1900	512	0.15~30MHz	0.15	-59.79	-33	PASS
EGPRS1900	512	30~1000MHz	902.45	-53.73	-13	PASS
EGPRS1900	512	1000~3000MHz	2626.47	-43.95	-13	PASS
EGPRS1900	512	3000~20000MHz	19211.5	-55.81	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-72.25	-43	PASS
EGPRS1900	661	0.15~30MHz	0.15	-59.49	-33	PASS

EGPRS1900	661	30~1000MHz	902.13	-53.86	-13	PASS
EGPRS1900	661	1000~3000MHz	2623.13	-43.98	-13	PASS
EGPRS1900	661	3000~20000MHz	3760	-54.69	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.07	-73.32	-43	PASS
EGPRS1900	810	0.15~30MHz	0.18	-61.05	-33	PASS
EGPRS1900	810	30~1000MHz	892.43	-54.02	-13	PASS
EGPRS1900	810	1000~3000MHz	2629.73	-44.02	-13	PASS
EGPRS1900	810	3000~20000MHz	19302.5	-55.88	-13	PASS

Test Graphs

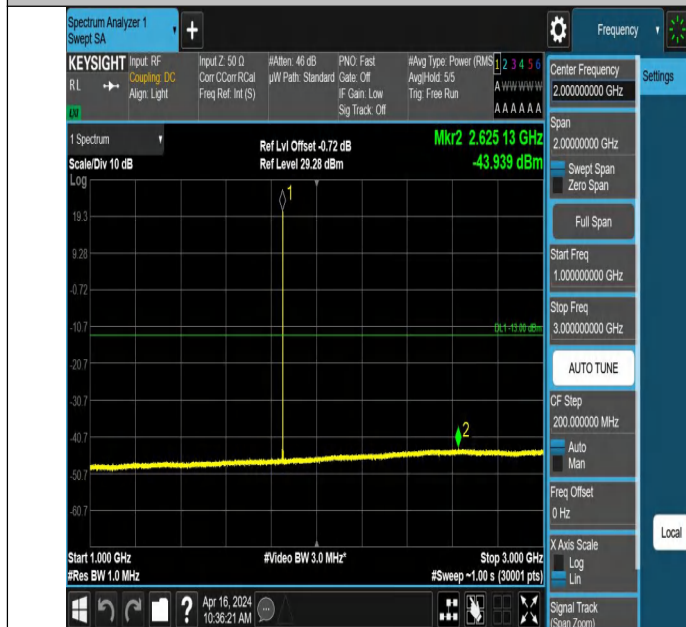




GSM1900-512-0-30~1000MHz-PASS



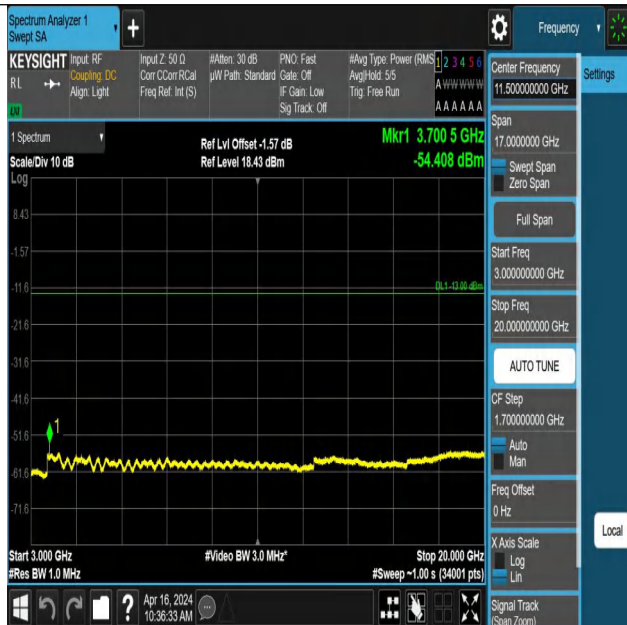
GPRS1900-512-0-30~1000MHz-PASS



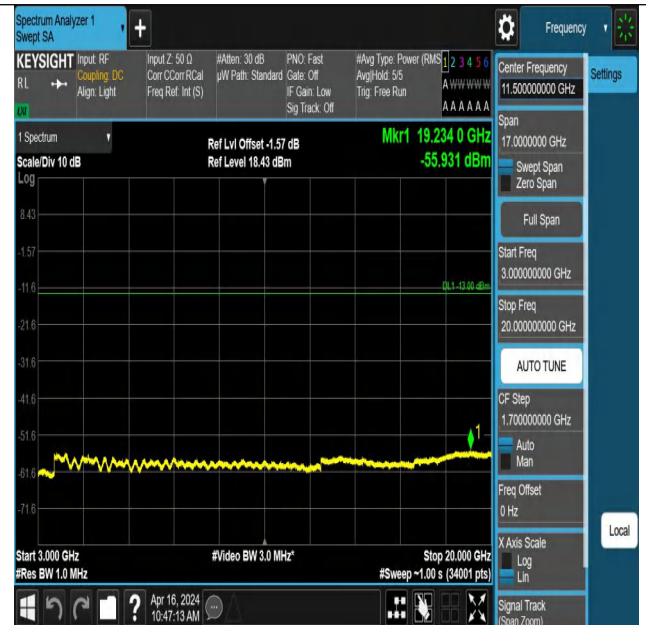
GSM1900-512-0-1000~3000MHz-PASS



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



GSM1900-512-0-3000~20000MHz-PASS



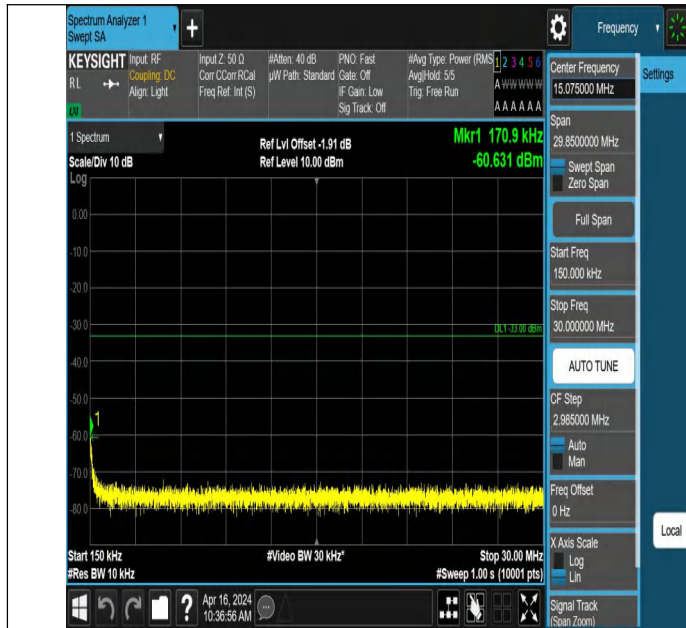
GPRS1900-512-0-3000~20000MHz-PASS



GSM1900-661-0-0.009~0.15MHz-PASS



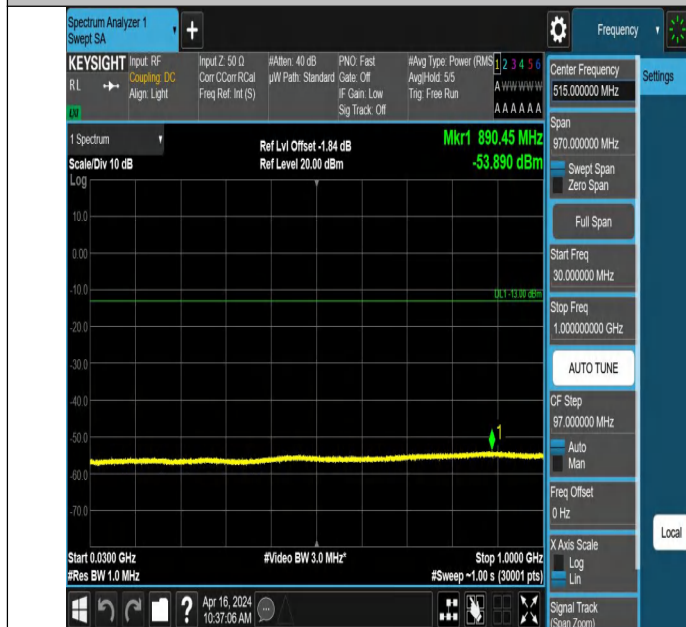
GPRS1900-661-0-0.009~0.15MHz-PASS



GSM1900-661-0-0.15~30MHz-PASS



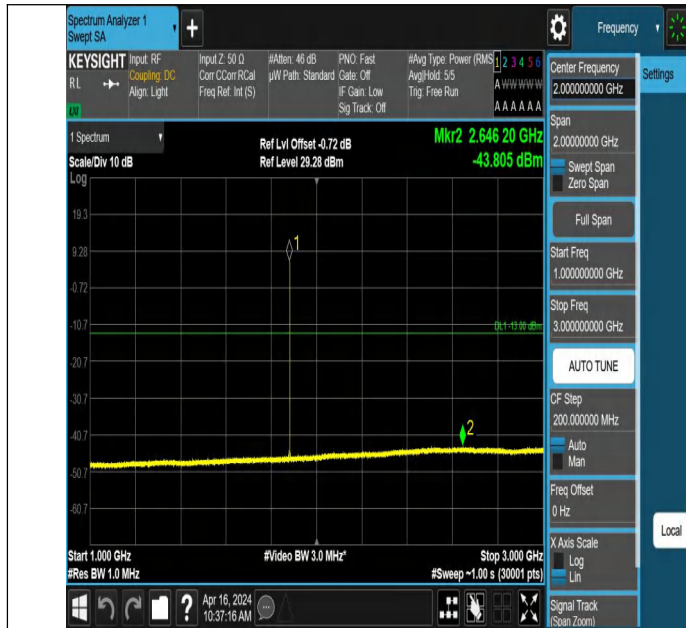
GPRS1900-661-0-0.15~30MHz-PASS



GSM1900-661-0-30~1000MHz-PASS



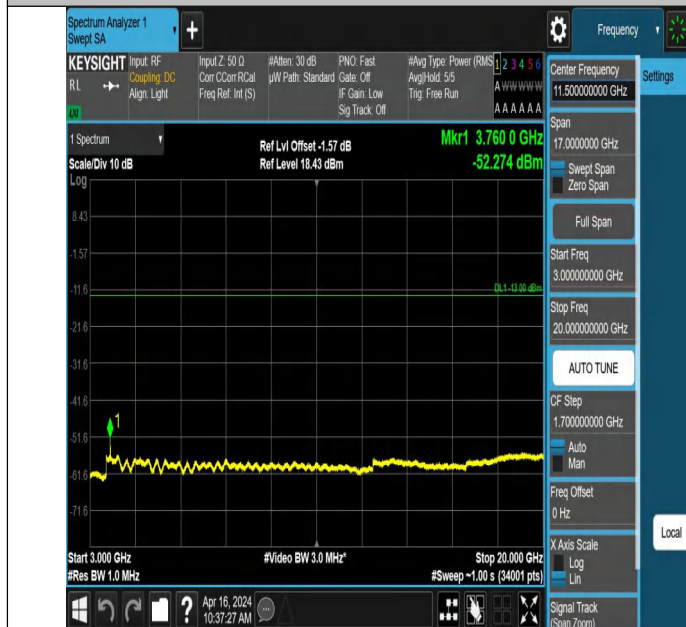
GPRS1900-661-0-30~1000MHz-PASS



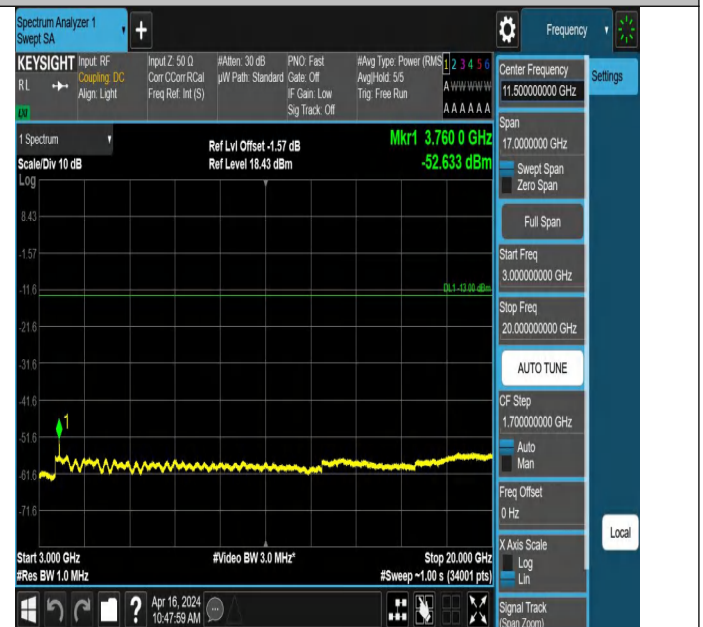
GSM1900-661-0-1000~3000MHz-PASS



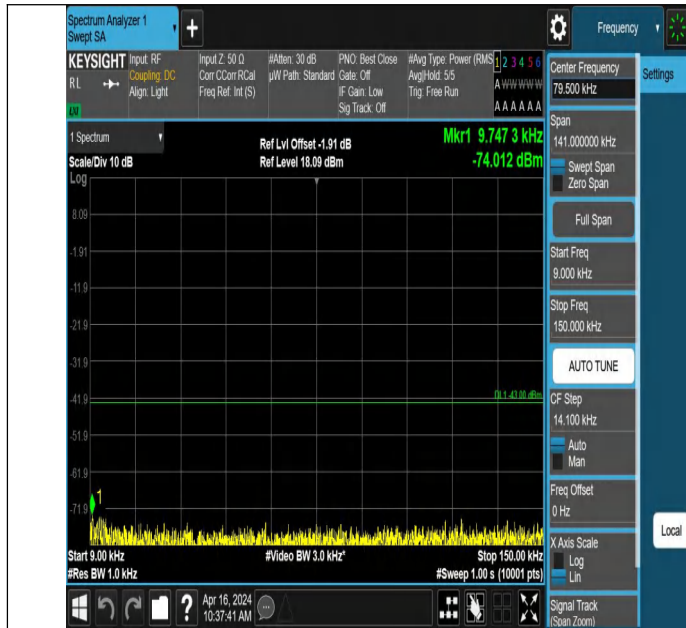
GPRS1900-661-0-1000~3000MHz-PASS



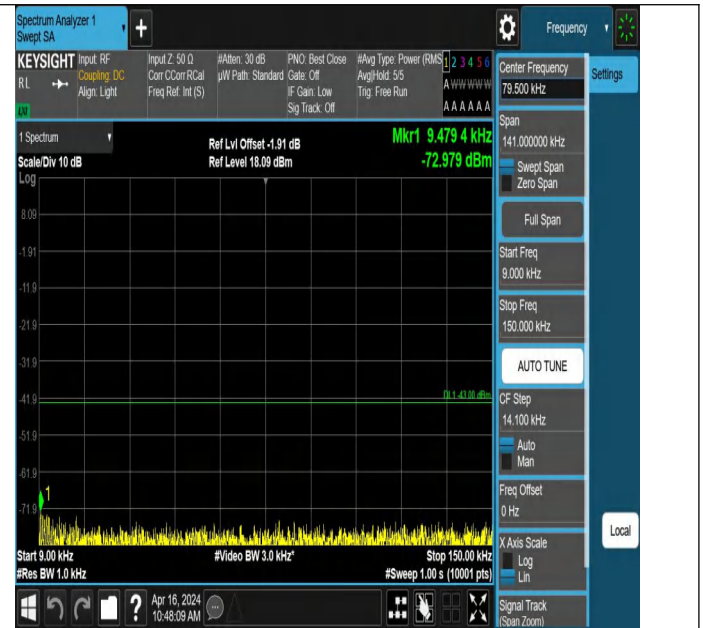
GSM1900-661-0-3000~20000MHz-PASS



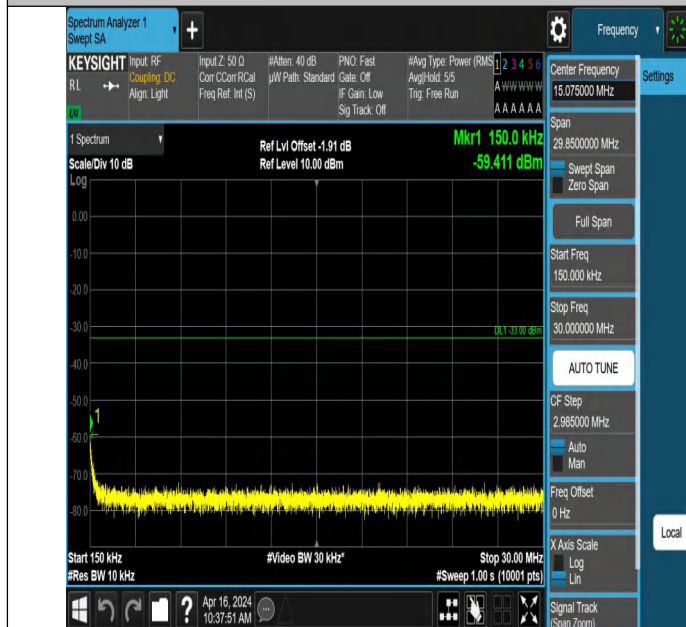
GPRS1900-661-0-3000~20000MHz-PASS



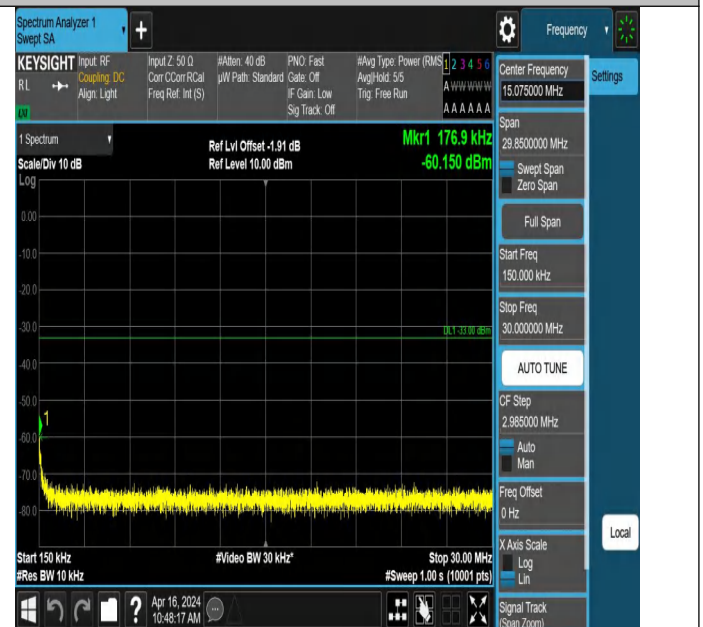
GSM1900-810-0-0.009~0.15MHz-PASS



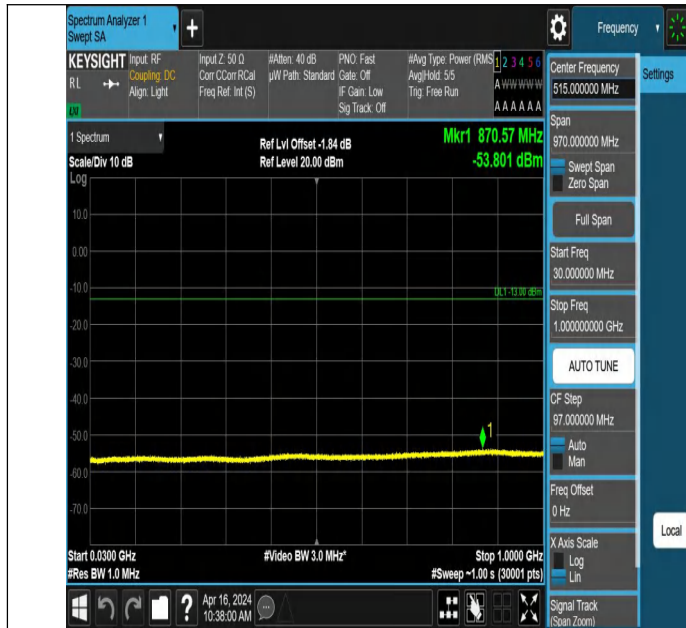
GPRS1900-810-0-0.009~0.15MHz-PASS



GSM1900-810-0-0.15~30MHz-PASS



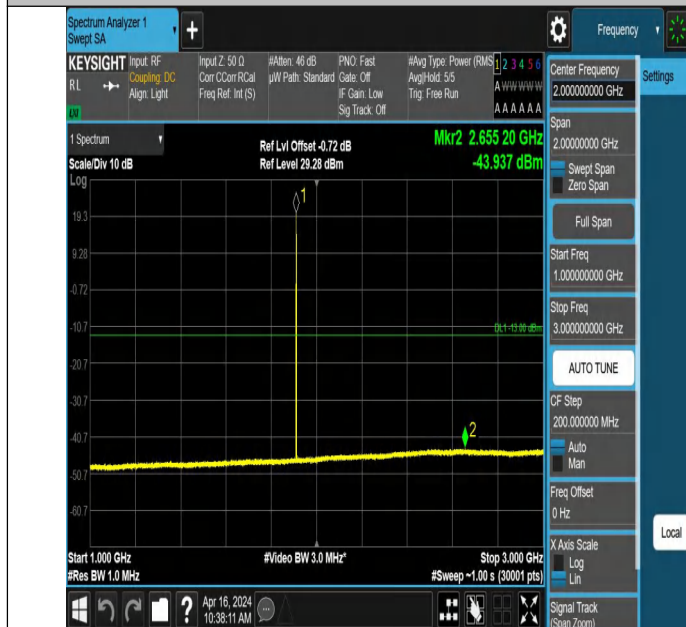
GPRS1900-810-0-0.15~30MHz-PASS



GSM1900-810-0-30~1000MHz-PASS



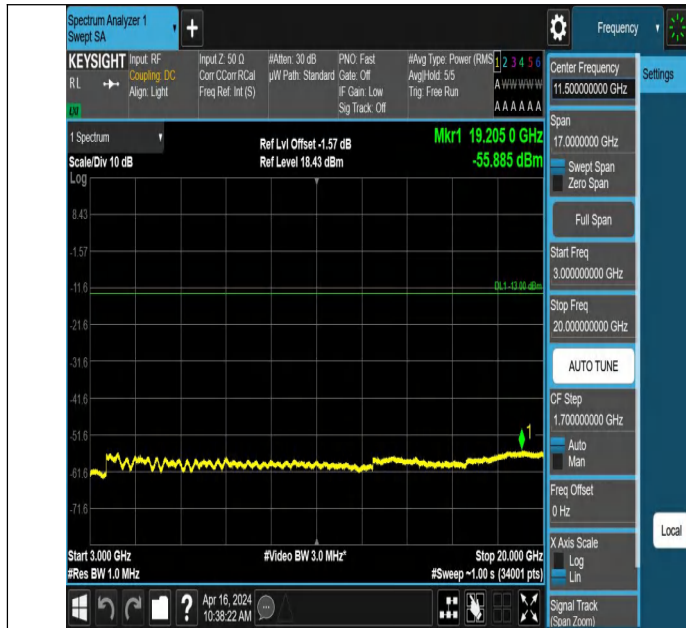
GPRS1900-810-0-30~1000MHz-PASS



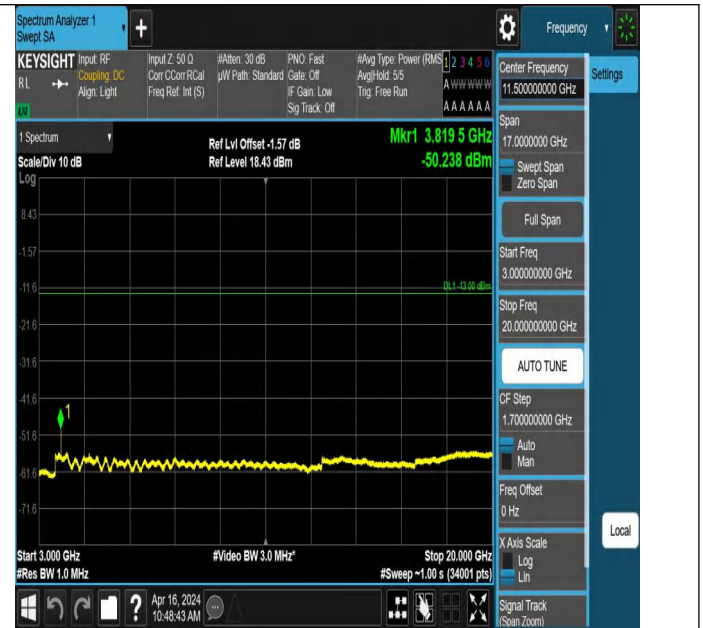
GSM1900-810-0-1000~3000MHz-PASS



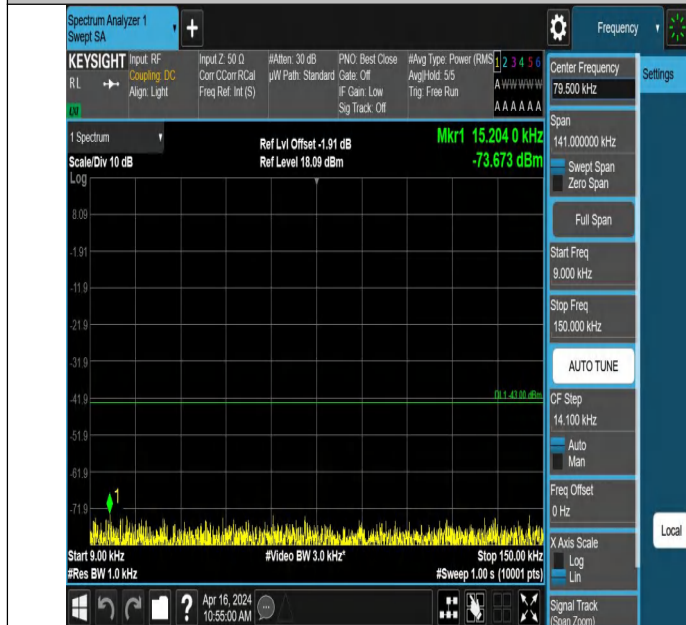
GPRS1900-810-0-1000~3000MHz-PASS



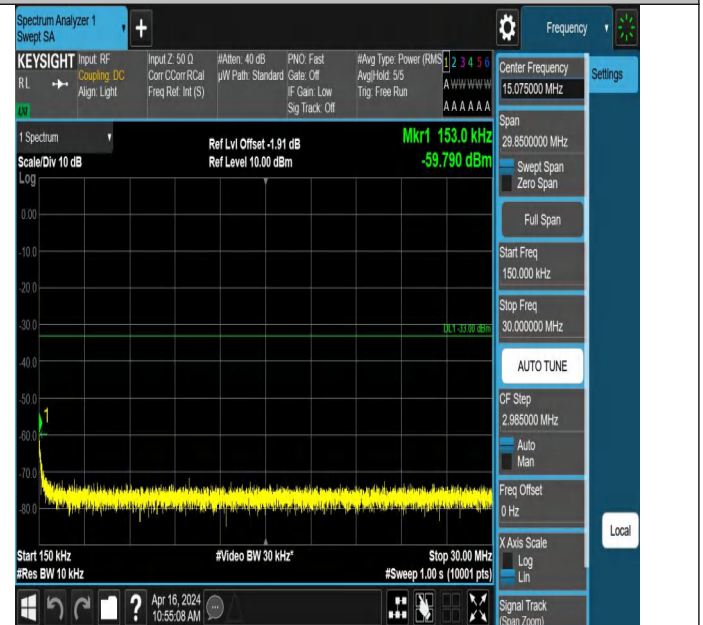
GSM1900-810-0-3000~20000MHz-PASS



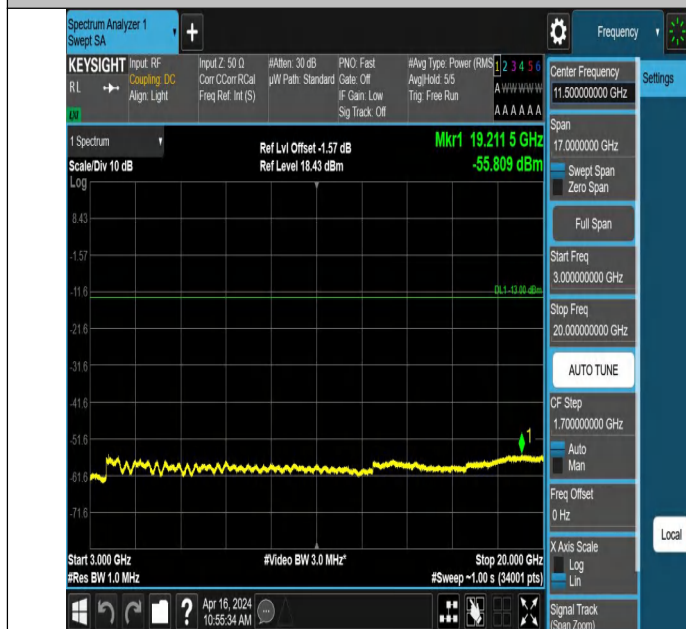
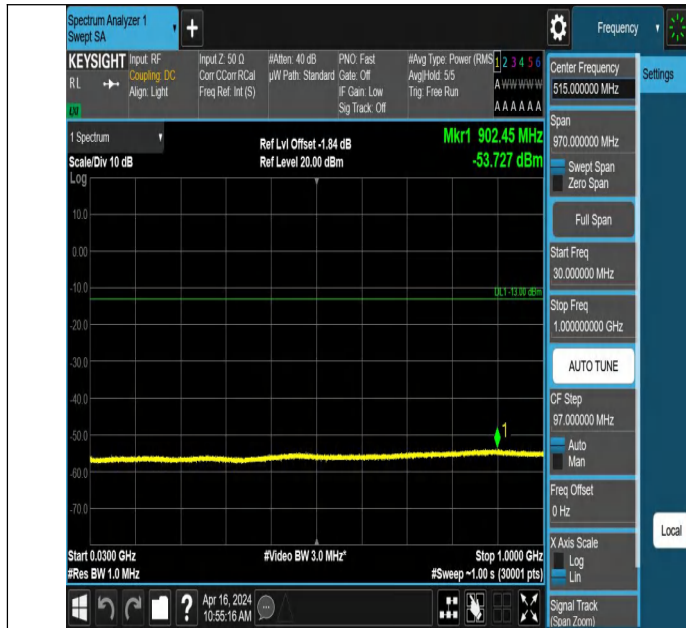
GPRS1900-810-0-3000~20000MHz-PASS

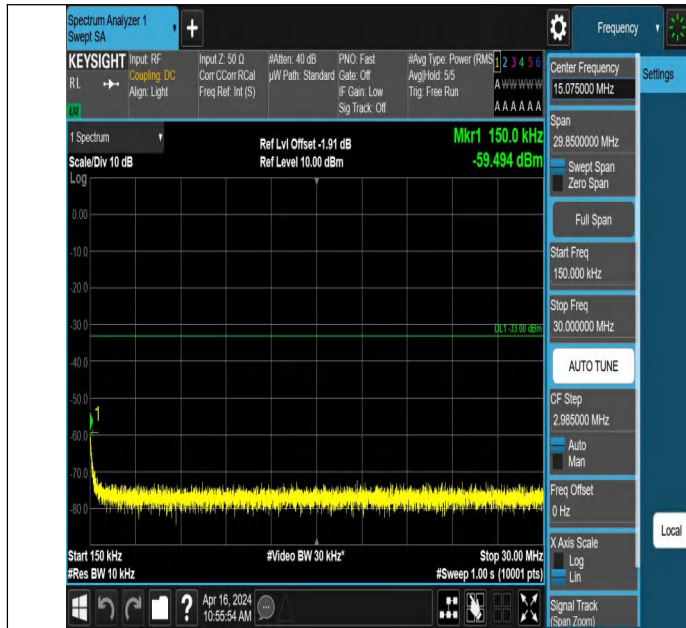


EGPRS1900-512-2-0.009~0.15MHz-PASS



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

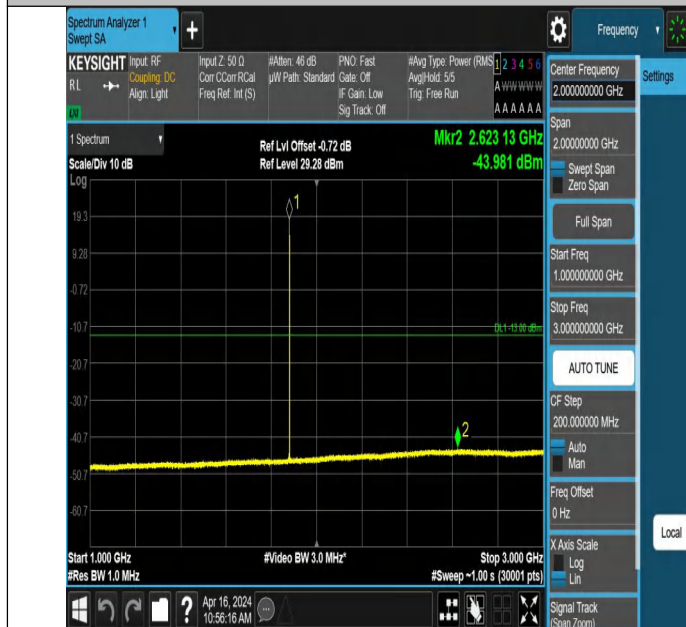




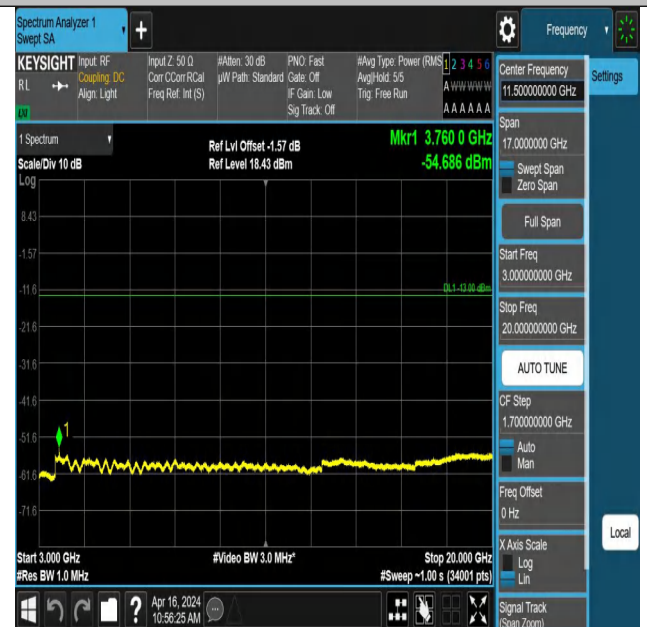
EGPRS1900-661-2-0.15~30MHz-PASS



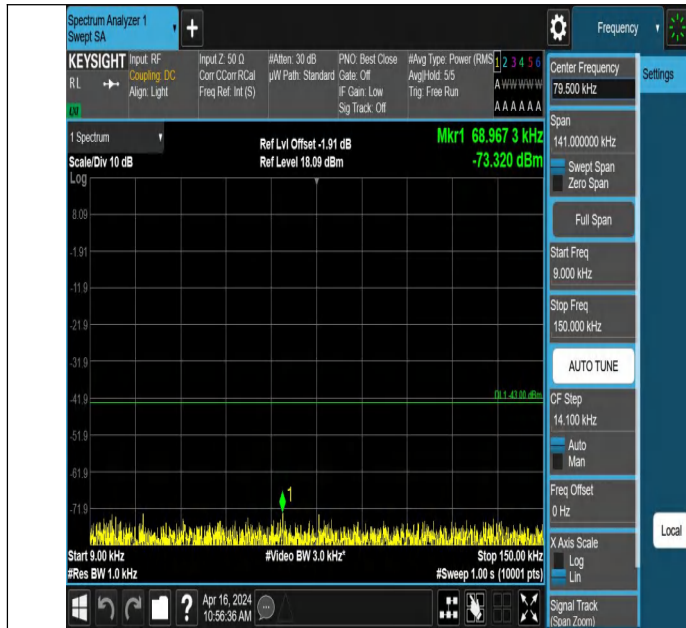
EGPRS1900-661-2-30~1000MHz-PASS



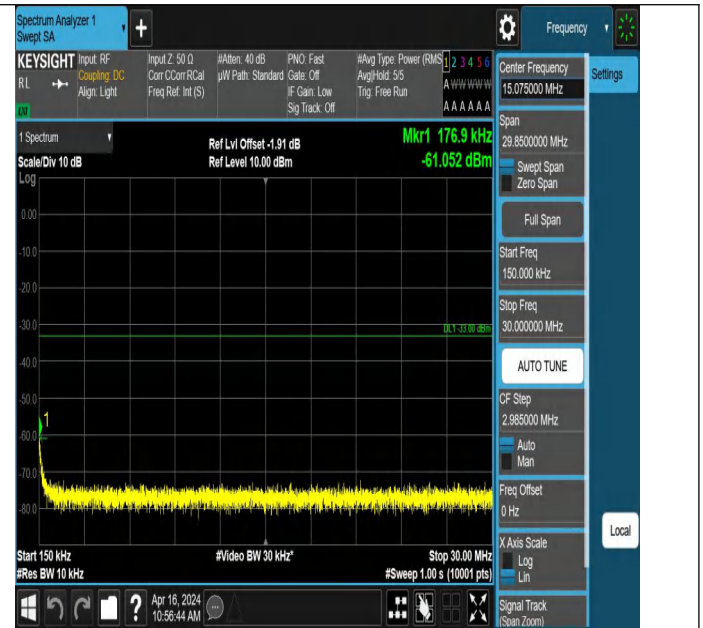
EGPRS1900-661-2-1000~3000MHz-PASS



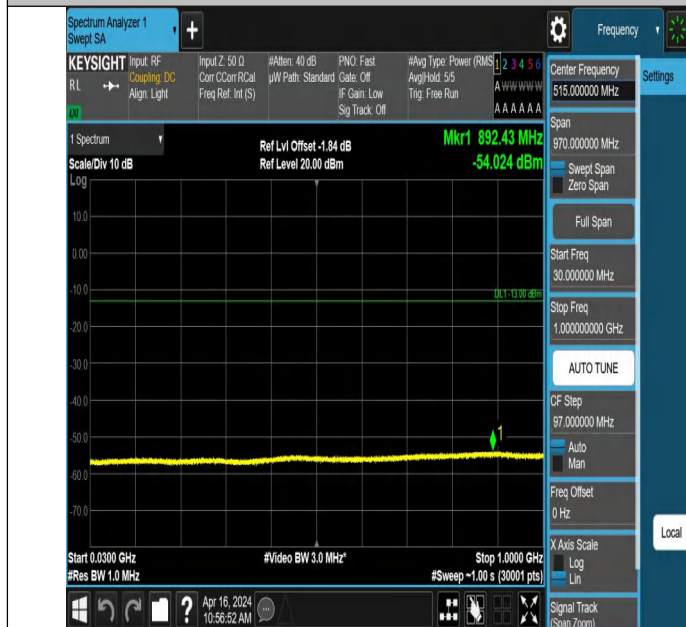
EGPRS1900-661-2-3000~20000MHz-PASS



EGPRS1900-810-2-0.009~0.15MHz-PASS



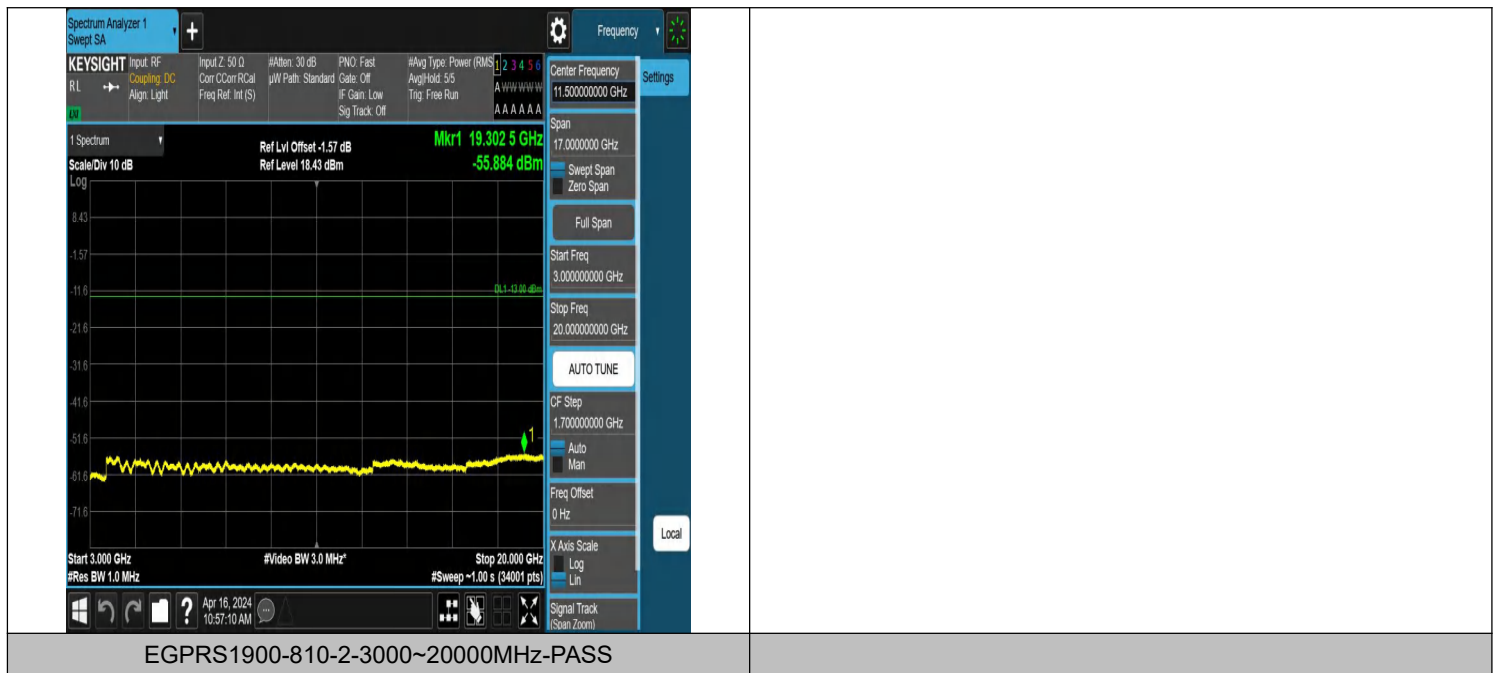
EGPRS1900-810-2-0.15~30MHz-PASS



EGPRS1900-810-2-30~1000MHz-PASS



EGPRS1900-810-2-1000~3000MHz-PASS



Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VN	NT	23.53	0.012718	±2.5	PASS
GSM1900	512	VL	NT	13.21	0.007140	±2.5	PASS
GSM1900	512	VH	NT	22.07	0.011928	±2.5	PASS
GPRS1900	512	VN	NT	28.62	0.015469	±2.5	PASS
GPRS1900	512	VL	NT	26.15	0.014134	±2.5	PASS
GPRS1900	512	VH	NT	25.17	0.013604	±2.5	PASS
GSM1900	661	VN	NT	13.38	0.007117	±2.5	PASS
GSM1900	661	VL	NT	24.29	0.012920	±2.5	PASS
GSM1900	661	VH	NT	19.91	0.010590	±2.5	PASS
GPRS1900	661	VN	NT	21.67	0.011527	±2.5	PASS
GPRS1900	661	VL	NT	20.95	0.011144	±2.5	PASS
GPRS1900	661	VH	NT	20.95	0.011144	±2.5	PASS
GSM1900	810	VN	NT	8.69	0.004550	±2.5	PASS
GSM1900	810	VL	NT	20.97	0.010980	±2.5	PASS
GSM1900	810	VH	NT	14.11	0.007388	±2.5	PASS
GPRS1900	810	VN	NT	34.50	0.018065	±2.5	PASS
GPRS1900	810	VL	NT	16.39	0.008582	±2.5	PASS
GPRS1900	810	VH	NT	16.36	0.008566	±2.5	PASS
EGPRS1900	512	VN	NT	20.21	0.010923	±2.5	PASS
EGPRS1900	512	VL	NT	24.45	0.013215	±2.5	PASS
EGPRS1900	512	VH	NT	32.08	0.017339	±2.5	PASS
EGPRS1900	661	VN	NT	35.12	0.018681	±2.5	PASS
EGPRS1900	661	VL	NT	35.26	0.018755	±2.5	PASS
EGPRS1900	661	VH	NT	35.59	0.018931	±2.5	PASS
EGPRS1900	810	VN	NT	24.59	0.012876	±2.5	PASS
EGPRS1900	810	VL	NT	26.90	0.014085	±2.5	PASS
EGPRS1900	810	VH	NT	29.47	0.015431	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	13.35	0.007215	±2.5	PASS
GSM1900	512	NV	-20	21.28	0.011501	±2.5	PASS
GSM1900	512	NV	-10	11.45	0.006189	±2.5	PASS
GSM1900	512	NV	0	20.76	0.011220	±2.5	PASS
GSM1900	512	NV	10	11.03	0.005962	±2.5	PASS

GSM1900	512	NV	20	22.11	0.011950	±2.5	PASS
GSM1900	512	NV	30	12.28	0.006637	±2.5	PASS
GSM1900	512	NV	40	21.23	0.011474	±2.5	PASS
GSM1900	512	NV	50	11.49	0.006210	±2.5	PASS
GPRS1900	512	NV	-30	24.91	0.013463	±2.5	PASS
GPRS1900	512	NV	-20	25.32	0.013685	±2.5	PASS
GPRS1900	512	NV	-10	26.56	0.014355	±2.5	PASS
GPRS1900	512	NV	0	27.25	0.014728	±2.5	PASS
GPRS1900	512	NV	10	26.85	0.014512	±2.5	PASS
GPRS1900	512	NV	20	28.15	0.015215	±2.5	PASS
GPRS1900	512	NV	30	26.99	0.014588	±2.5	PASS
GPRS1900	512	NV	40	28.12	0.015198	±2.5	PASS
GPRS1900	512	NV	50	27.51	0.014869	±2.5	PASS
GSM1900	661	NV	-30	24.01	0.012771	±2.5	PASS
GSM1900	661	NV	-20	14.78	0.007862	±2.5	PASS
GSM1900	661	NV	-10	27.59	0.014676	±2.5	PASS
GSM1900	661	NV	0	19.80	0.010532	±2.5	PASS
GSM1900	661	NV	10	13.79	0.007335	±2.5	PASS
GSM1900	661	NV	20	26.73	0.014218	±2.5	PASS
GSM1900	661	NV	30	20.07	0.010676	±2.5	PASS
GSM1900	661	NV	40	14.36	0.007638	±2.5	PASS
GSM1900	661	NV	50	26.02	0.013840	±2.5	PASS
GPRS1900	661	NV	-30	20.15	0.010718	±2.5	PASS
GPRS1900	661	NV	-20	20.73	0.011027	±2.5	PASS
GPRS1900	661	NV	-10	20.19	0.010739	±2.5	PASS
GPRS1900	661	NV	0	19.55	0.010399	±2.5	PASS
GPRS1900	661	NV	10	20.37	0.010835	±2.5	PASS
GPRS1900	661	NV	20	20.02	0.010649	±2.5	PASS
GPRS1900	661	NV	30	20.44	0.010872	±2.5	PASS
GPRS1900	661	NV	40	21.83	0.011612	±2.5	PASS
GPRS1900	661	NV	50	21.03	0.011186	±2.5	PASS
GSM1900	810	NV	-30	7.04	0.003686	±2.5	PASS
GSM1900	810	NV	-20	8.01	0.004194	±2.5	PASS
GSM1900	810	NV	-10	14.45	0.007566	±2.5	PASS
GSM1900	810	NV	0	8.01	0.004194	±2.5	PASS
GSM1900	810	NV	10	1.78	0.000932	±2.5	PASS
GSM1900	810	NV	20	12.26	0.006420	±2.5	PASS
GSM1900	810	NV	30	7.00	0.003665	±2.5	PASS
GSM1900	810	NV	40	19.36	0.010137	±2.5	PASS
GSM1900	810	NV	50	12.63	0.006613	±2.5	PASS
GPRS1900	810	NV	-30	17.35	0.009085	±2.5	PASS

GPRS1900	810	NV	-20	18.00	0.009425	±2.5	PASS
GPRS1900	810	NV	-10	16.85	0.008823	±2.5	PASS
GPRS1900	810	NV	0	15.96	0.008357	±2.5	PASS
GPRS1900	810	NV	10	13.86	0.007257	±2.5	PASS
GPRS1900	810	NV	20	13.47	0.007053	±2.5	PASS
GPRS1900	810	NV	30	13.26	0.006943	±2.5	PASS
GPRS1900	810	NV	40	13.27	0.006948	±2.5	PASS
GPRS1900	810	NV	50	13.10	0.006859	±2.5	PASS
EGPRS1900	512	NV	-30	18.60	0.010053	±2.5	PASS
EGPRS1900	512	NV	-20	21.23	0.011474	±2.5	PASS
EGPRS1900	512	NV	-10	24.65	0.013323	±2.5	PASS
EGPRS1900	512	NV	0	25.31	0.013680	±2.5	PASS
EGPRS1900	512	NV	10	30.39	0.016425	±2.5	PASS
EGPRS1900	512	NV	20	14.51	0.007842	±2.5	PASS
EGPRS1900	512	NV	30	18.56	0.010031	±2.5	PASS
EGPRS1900	512	NV	40	21.10	0.011404	±2.5	PASS
EGPRS1900	512	NV	50	23.61	0.012761	±2.5	PASS
EGPRS1900	661	NV	-30	35.84	0.019064	±2.5	PASS
EGPRS1900	661	NV	-20	39.91	0.021229	±2.5	PASS
EGPRS1900	661	NV	-10	23.73	0.012622	±2.5	PASS
EGPRS1900	661	NV	0	26.82	0.014266	±2.5	PASS
EGPRS1900	661	NV	10	28.35	0.015080	±2.5	PASS
EGPRS1900	661	NV	20	29.00	0.015426	±2.5	PASS
EGPRS1900	661	NV	30	31.77	0.016899	±2.5	PASS
EGPRS1900	661	NV	40	35.63	0.018952	±2.5	PASS
EGPRS1900	661	NV	50	38.36	0.020404	±2.5	PASS
EGPRS1900	810	NV	-30	24.63	0.012897	±2.5	PASS
EGPRS1900	810	NV	-20	15.89	0.008320	±2.5	PASS
EGPRS1900	810	NV	-10	17.61	0.009221	±2.5	PASS
EGPRS1900	810	NV	0	18.40	0.009635	±2.5	PASS
EGPRS1900	810	NV	10	21.59	0.011305	±2.5	PASS
EGPRS1900	810	NV	20	24.53	0.012844	±2.5	PASS
EGPRS1900	810	NV	30	26.68	0.013970	±2.5	PASS
EGPRS1900	810	NV	40	29.78	0.015593	±2.5	PASS
EGPRS1900	810	NV	50	31.84	0.016672	±2.5	PASS