

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power (dBm)	Gain (dBi)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GSM850	128	32.78	0.1	30.73	38.45	PASS
GSM850	190	32.77	0.1	30.72	38.45	PASS
GSM850	251	32.72	0.1	30.67	38.45	PASS

Band	Channel	Up Slot Num	Power (dBm)	Gain (dBi)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GPRS850	128	1	32.85	0.1	30.8	38.45	PASS
GPRS850	190	1	32.76	0.1	30.71	38.45	PASS
GPRS850	251	1	32.73	0.1	30.68	38.45	PASS
GPRS850	128	2	32.70	0.1	30.65	38.45	PASS
GPRS850	190	2	32.66	0.1	30.61	38.45	PASS
GPRS850	251	2	32.61	0.1	30.56	38.45	PASS
GPRS850	128	3	30.97	0.1	28.92	38.45	PASS
GPRS850	190	3	30.92	0.1	28.87	38.45	PASS
GPRS850	251	3	30.90	0.1	28.85	38.45	PASS
GPRS850	128	4	28.98	0.1	26.93	38.45	PASS
GPRS850	190	4	28.99	0.1	26.94	38.45	PASS
GPRS850	251	4	28.97	0.1	26.92	38.45	PASS

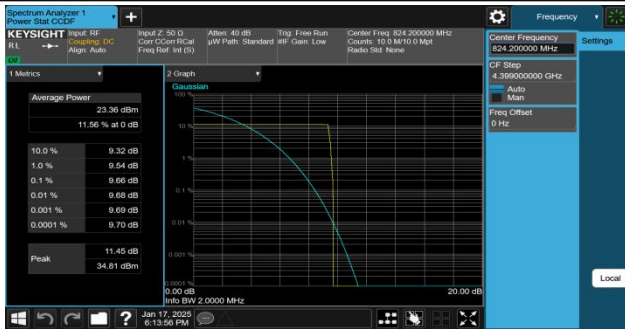
Band	Channel	Up Slot Num	Power (dBm)	Gain (dBi)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.51	0.1	25.46	38.45	PASS
EGPRS850	190	1	27.18	0.1	25.13	38.45	PASS
EGPRS850	251	1	27.65	0.1	25.6	38.45	PASS
EGPRS850	128	2	27.18	0.1	25.13	38.45	PASS
EGPRS850	190	2	27.07	0.1	25.02	38.45	PASS
EGPRS850	251	2	27.56	0.1	25.51	38.45	PASS
EGPRS850	128	3	25.10	0.1	23.05	38.45	PASS
EGPRS850	190	3	25.05	0.1	23.0	38.45	PASS
EGPRS850	251	3	25.69	0.1	23.64	38.45	PASS
EGPRS850	128	4	23.33	0.1	21.28	38.45	PASS
EGPRS850	190	4	23.28	0.1	21.23	38.45	PASS
EGPRS850	251	4	23.45	0.1	21.4	38.45	PASS

Peak-to-Average Ratio(CCDF)

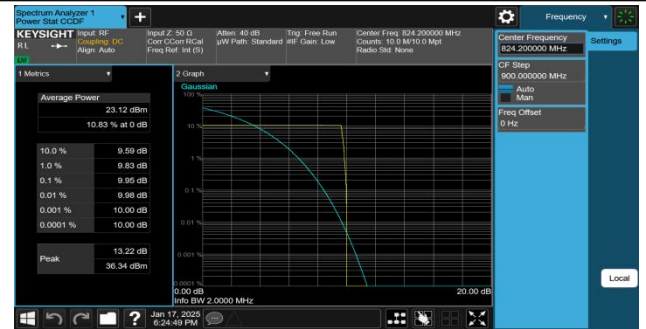
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.66	13	PASS
GPRS850	128	9.95	13	PASS
GSM850	190	9.78	13	PASS
GPRS850	190	10.17	13	PASS
GSM850	251	9.37	13	PASS
GPRS850	251	9.76	13	PASS
EGPRS850	128	12.37	13	PASS
EGPRS850	190	12.36	13	PASS
EGPRS850	251	12.27	13	PASS

Test Graphs



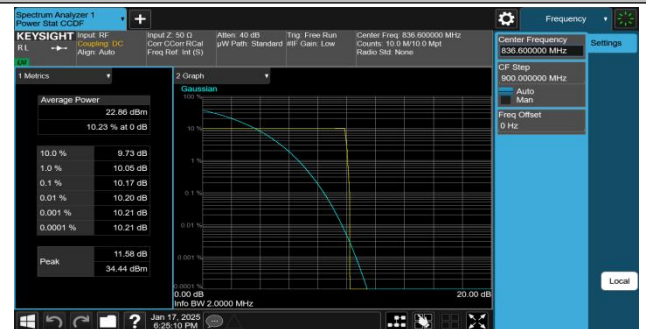
GSM850-128-5-PASS



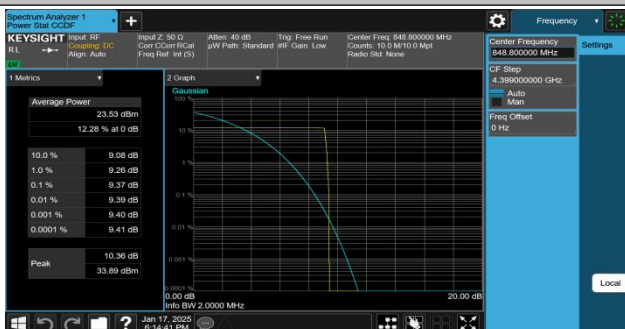
GPRS850-128-5-PASS



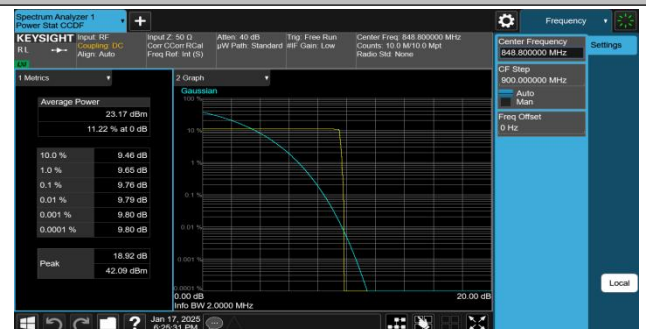
GSM850-190-5-PASS



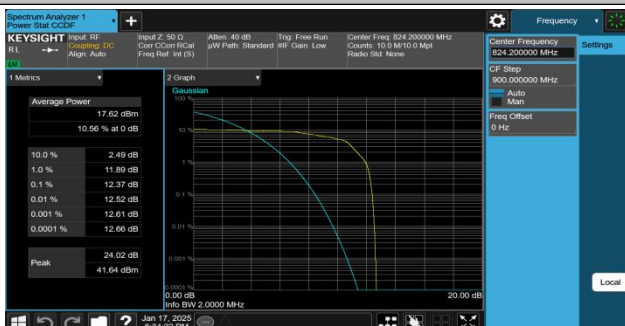
GPRS850-190-5-PASS



GSM850-251-5-PASS



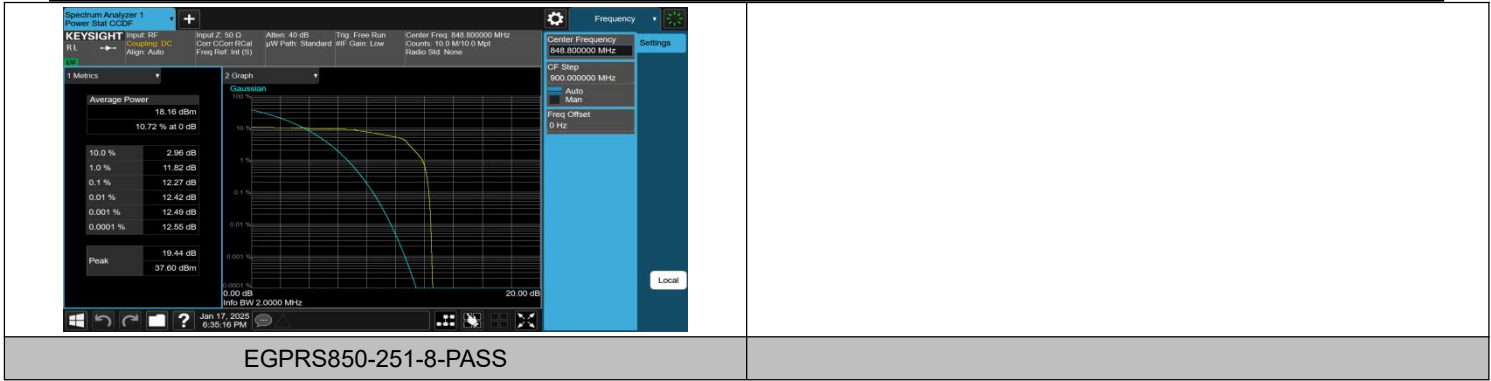
GPRS850-251-5-PASS



EGPRS850-128-8-PASS



EGPRS850-190-8-PASS

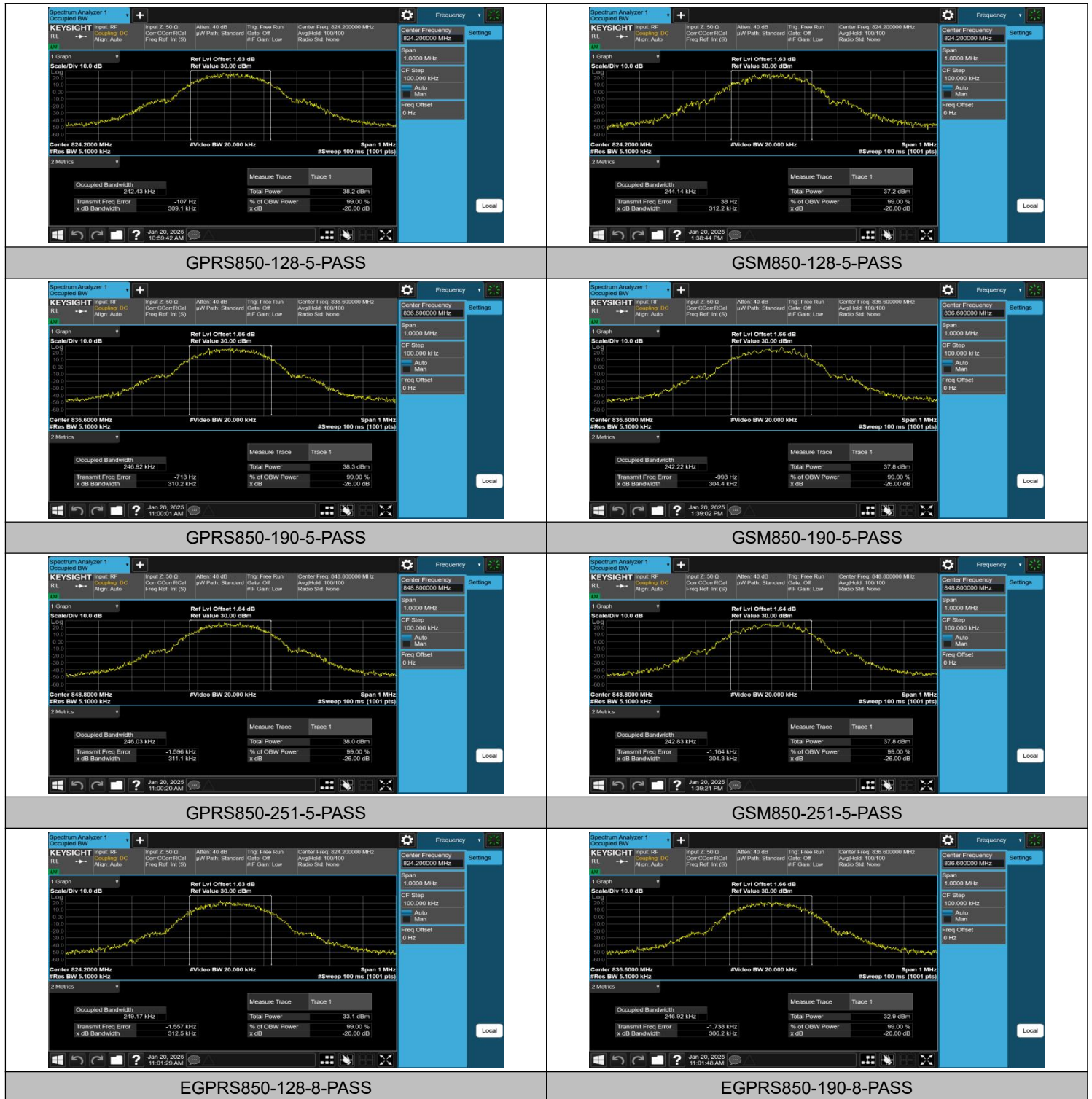


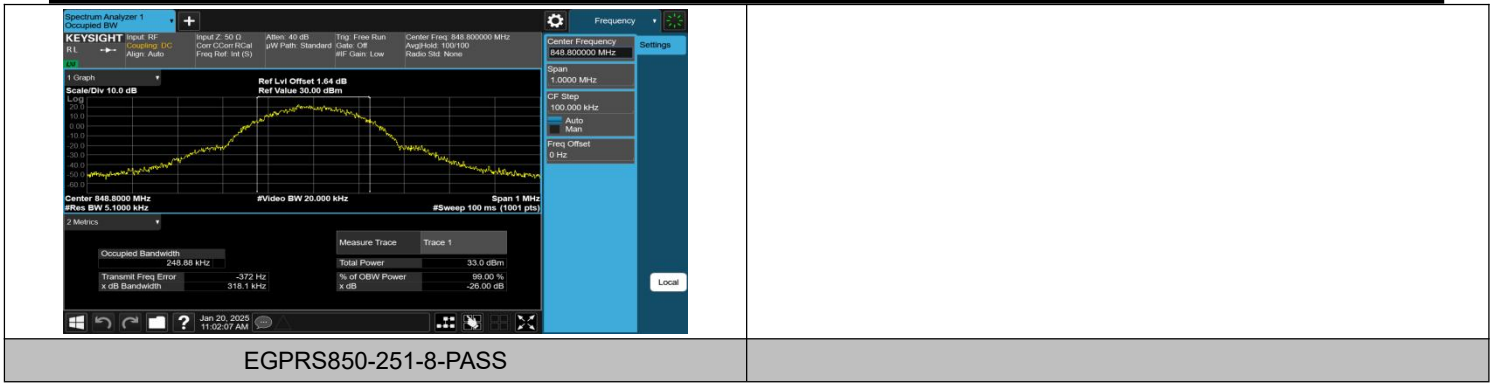
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
GPRS850	128	0.24243	0.3091	PASS
GSM850	128	0.24414	0.3122	PASS
GPRS850	190	0.24692	0.3102	PASS
GSM850	190	0.24222	0.3044	PASS
GPRS850	251	0.24603	0.3111	PASS
GSM850	251	0.24283	0.3043	PASS
EGPRS850	128	0.24917	0.3125	PASS
EGPRS850	190	0.24692	0.3062	PASS
EGPRS850	251	0.24888	0.3181	PASS

Test Graphs





Band Edge

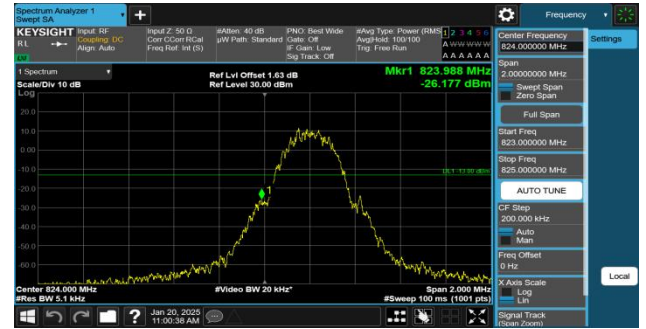
Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	824.00	-23.16	-13	PASS
GPRS850	128	823.99	-26.18	-13	PASS
GSM850	251	849.02	-25.74	-13	PASS
GPRS850	251	849.02	-23.72	-13	PASS
EGPRS850	128	823.99	-34.91	-13	PASS
EGPRS850	251	849.04	-36.14	-13	PASS

Test Graphs



GSM850-128-5-PASS



GPRS850-128-5-PASS



GSM850-251-5-PASS



GPRS850-251-5-PASS



EGPRS850-128-8-PASS



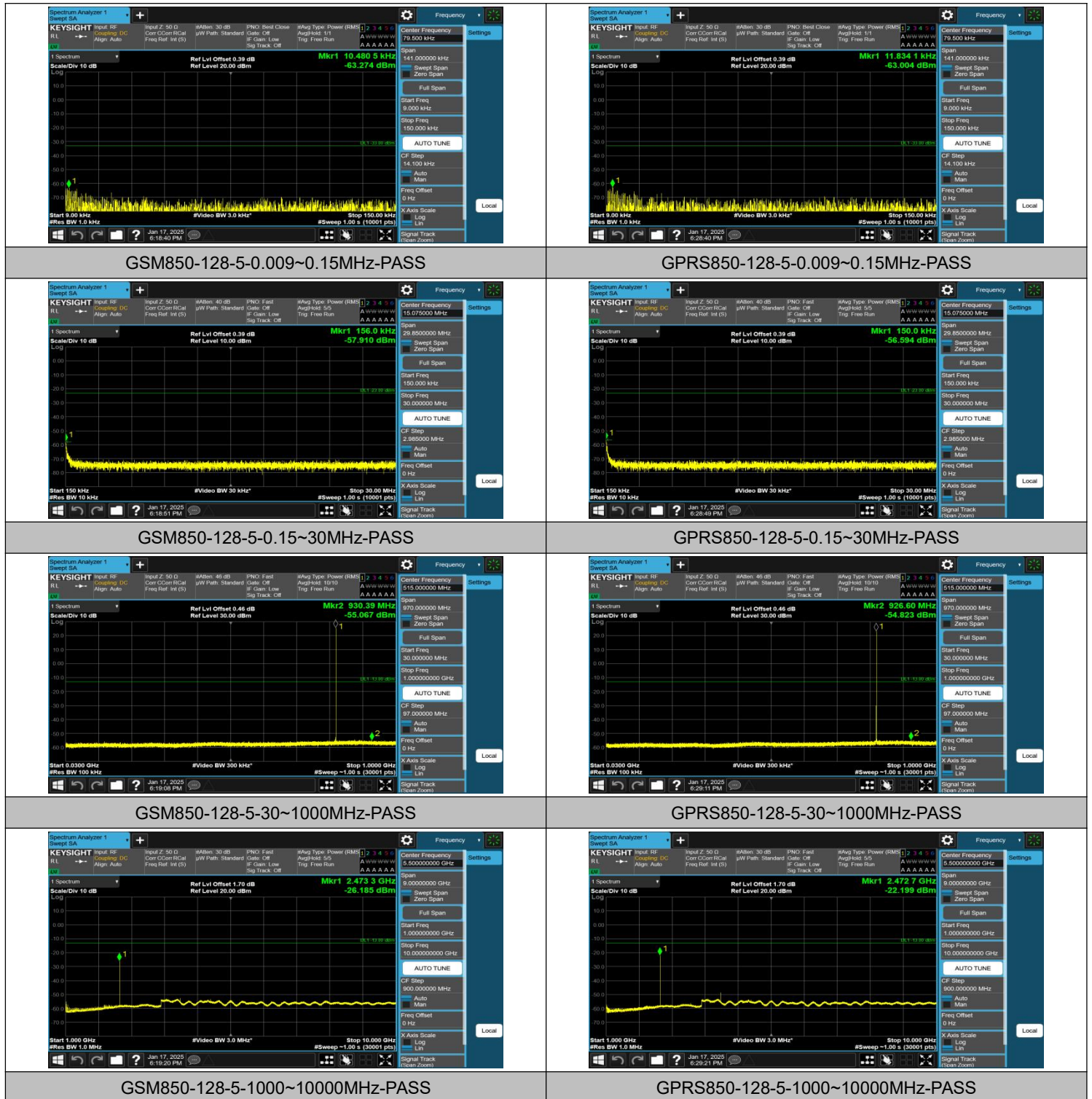
EGPRS850-251-8-PASS

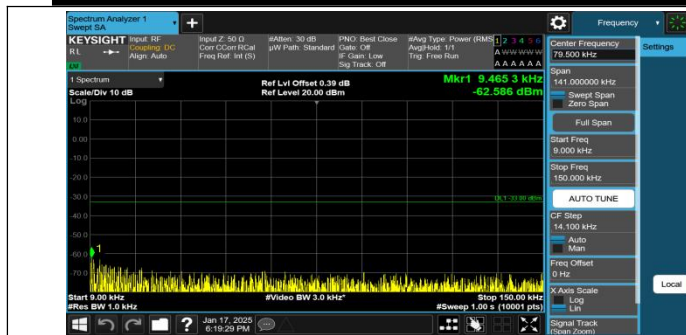
Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range (MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-63.27	-33	PASS
GPRS850	128	0.009~0.15MHz	0.01	-63	-33	PASS
GSM850	128	0.15~30MHz	0.16	-57.91	-23	PASS
GPRS850	128	0.15~30MHz	0.15	-56.59	-23	PASS
GSM850	128	30~1000MHz	930.39	-55.07	-13	PASS
GPRS850	128	30~1000MHz	926.6	-54.82	-13	PASS
GSM850	128	1000~10000MHz	2473.3	-26.19	-13	PASS
GPRS850	128	1000~10000MHz	2472.7	-22.2	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-62.59	-33	PASS
GPRS850	190	0.009~0.15MHz	0.01	-62.56	-33	PASS
GSM850	190	0.15~30MHz	0.16	-57.1	-23	PASS
GPRS850	190	0.15~30MHz	0.16	-58.42	-23	PASS
GSM850	190	30~1000MHz	954.64	-55.14	-13	PASS
GPRS850	190	30~1000MHz	945.84	-54.93	-13	PASS
GSM850	190	1000~10000MHz	2509.9	-22.04	-13	PASS
GPRS850	190	1000~10000MHz	2509.6	-21.9	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-62.92	-33	PASS
GPRS850	251	0.009~0.15MHz	0.01	-63.44	-33	PASS
GSM850	251	0.15~30MHz	0.16	-57.69	-23	PASS
GPRS850	251	0.15~30MHz	0.15	-56.51	-23	PASS
GSM850	251	30~1000MHz	975.94	-55.15	-13	PASS
GPRS850	251	30~1000MHz	693.03	-55.25	-13	PASS
GSM850	251	1000~10000MHz	2545.6	-29.8	-13	PASS
GPRS850	251	1000~10000MHz	2546.5	-21.85	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.07	-63.1	-33	PASS
EGPRS850	128	0.15~30MHz	0.15	-56.61	-23	PASS
EGPRS850	128	30~1000MHz	951.69	-54.99	-13	PASS
EGPRS850	128	1000~10000MHz	2472.7	-33.55	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.03	-65.71	-33	PASS
EGPRS850	190	0.15~30MHz	0.17	-57.09	-23	PASS
EGPRS850	190	30~1000MHz	988.26	-55.27	-13	PASS
EGPRS850	190	1000~10000MHz	1672.9	-44.06	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.03	-64.89	-33	PASS
EGPRS850	251	0.15~30MHz	0.15	-58.21	-23	PASS
EGPRS850	251	30~1000MHz	990.91	-55.15	-13	PASS
EGPRS850	251	1000~10000MHz	2547.4	-41.97	-13	PASS

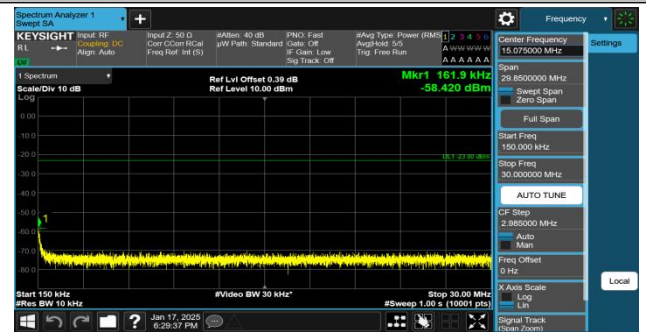
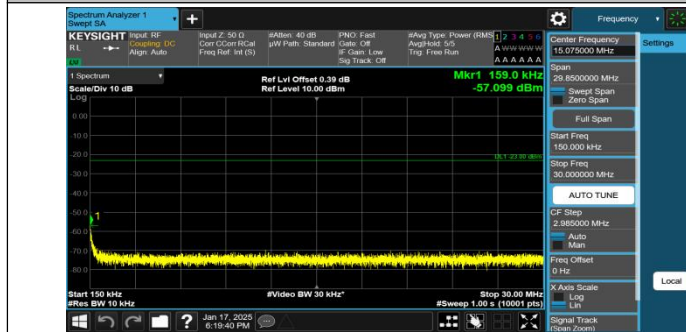
Test Graphs





GSM850-190-5-0.009~0.15MHz-PASS

GPRS850-190-5-0.009~0.15MHz-PASS



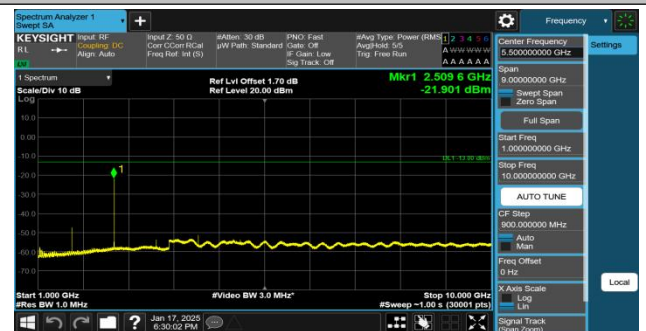
GSM850-190-5-0.15~30MHz-PASS

GPRS850-190-5-0.15~30MHz-PASS



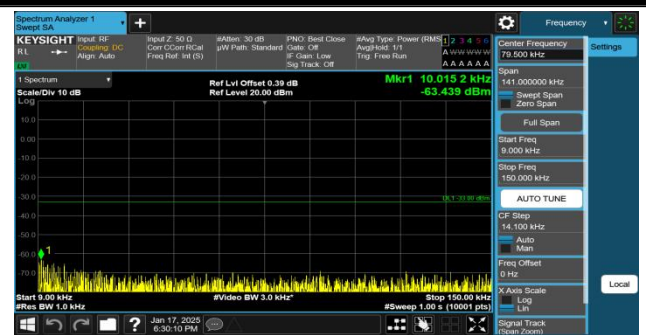
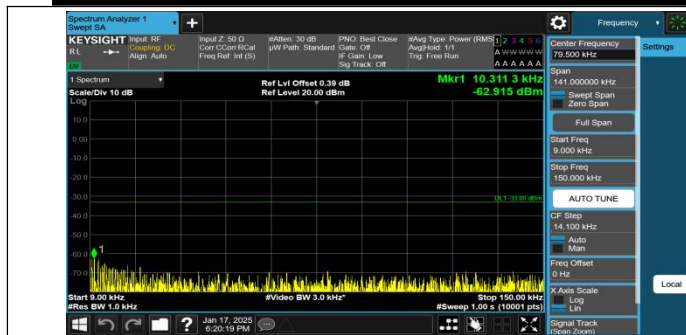
GSM850-190-5-30~1000MHz-PASS

GPRS850-190-5-30~1000MHz-PASS



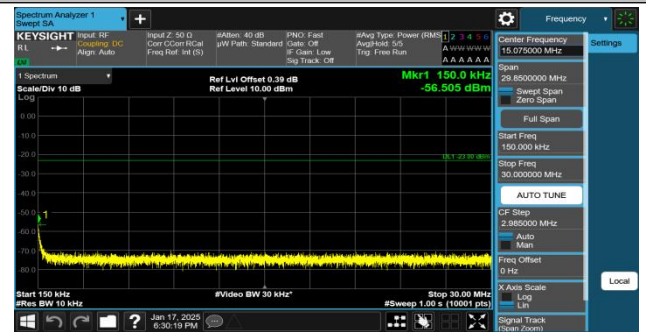
GSM850-190-5-1000~10000MHz-PASS

GPRS850-190-5-1000~10000MHz-PASS



GSM850-251-5-0.009~0.15MHz-PASS

GPRS850-251-5-0.009~0.15MHz-PASS



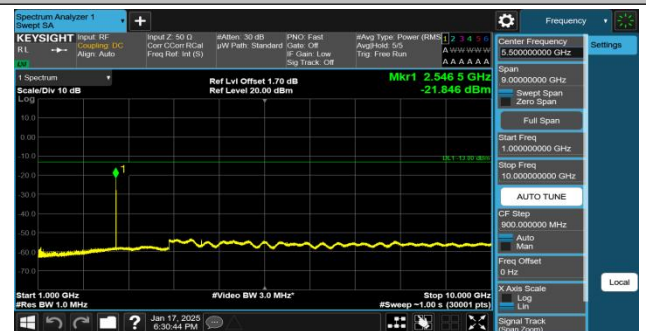
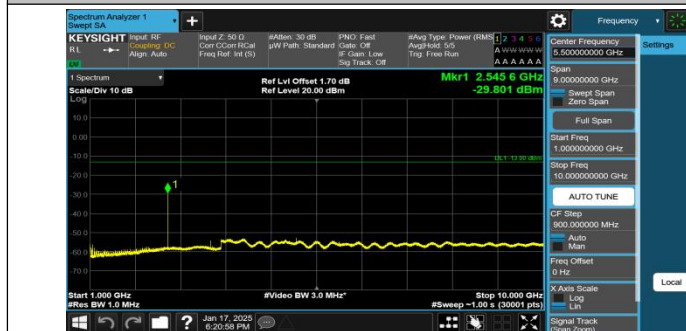
GSM850-251-5-0.15~30MHz-PASS

GPRS850-251-5-0.15~30MHz-PASS



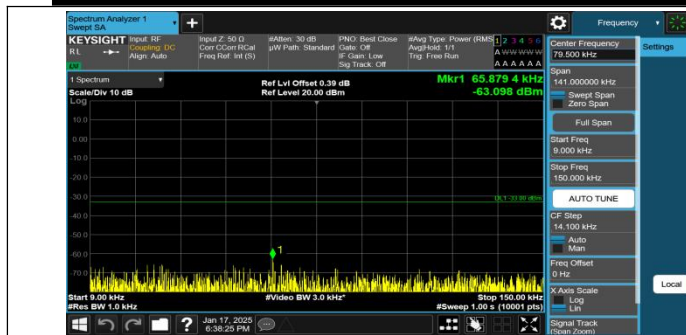
GSM850-251-5-30~1000MHz-PASS

GPRS850-251-5-30~1000MHz-PASS

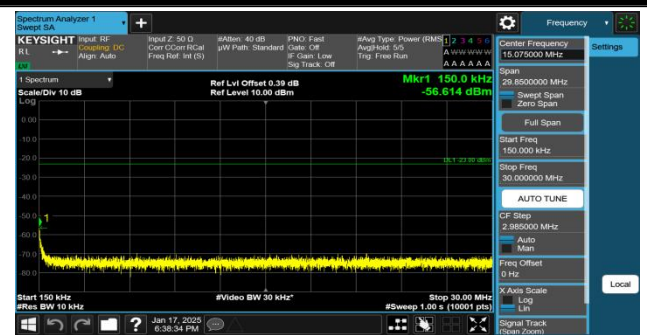


GSM850-251-5-1000~10000MHz-PASS

GPRS850-251-5-1000~10000MHz-PASS



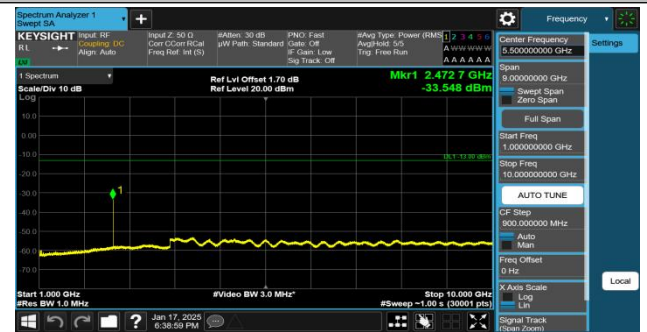
EGPRS850-128-8-0.009~0.15MHz-PASS



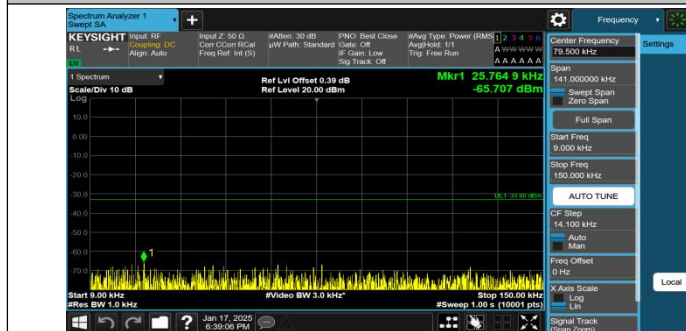
EGPRS850-128-8-0.15~30MHz-PASS



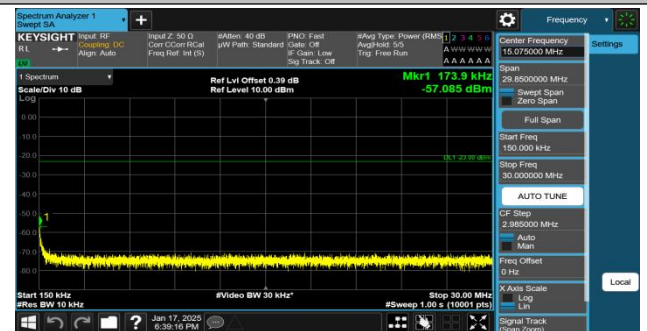
EGPRS850-128-8-30~1000MHz-PASS



EGPRS850-128-8-1000~10000MHz-PASS



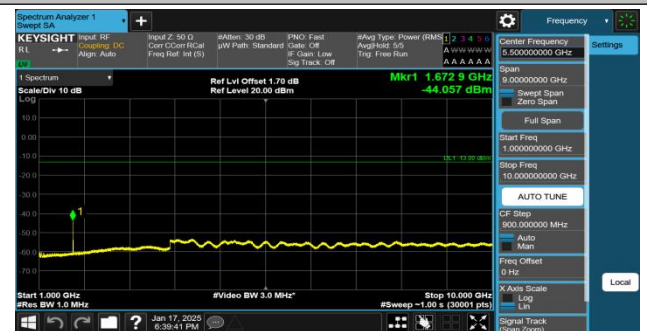
EGPRS850-190-8-0.009~0.15MHz-PASS



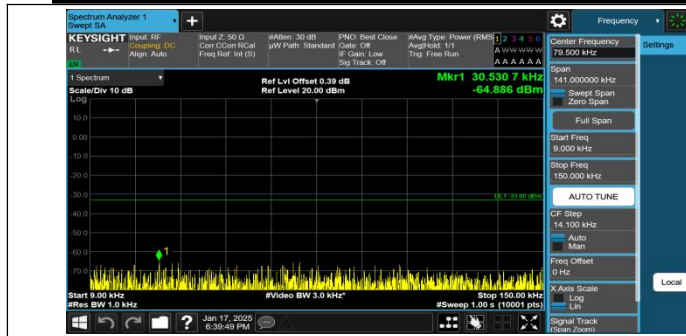
EGPRS850-190-8-0.15~30MHz-PASS



EGPRS850-190-8-30~1000MHz-PASS



EGPRS850-190-8-1000~10000MHz-PASS



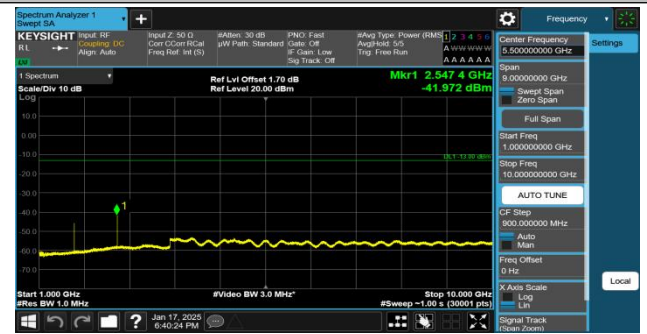
EGPRS850-251-8-0.009~0.15MHz-PASS



EGPRS850-251-8-0.15~30MHz-PASS



EGPRS850-251-8-30~1000MHz-PASS



EGPRS850-251-8-1000~10000MHz-PASS

Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	-3.73	-0.004526	±2.5	PASS
GSM850	128	VL	NT	-2.43	-0.002948	±2.5	PASS
GSM850	128	VH	NT	-10.40	-0.012618	±2.5	PASS
GPRS850	128	VN	NT	0.60	0.000728	±2.5	PASS
GPRS850	128	VL	NT	-2.85	-0.003458	±2.5	PASS
GPRS850	128	VH	NT	-3.68	-0.004465	±2.5	PASS
GSM850	190	VN	NT	-9.94	-0.011881	±2.5	PASS
GSM850	190	VL	NT	-1.69	-0.002020	±2.5	PASS
GSM850	190	VH	NT	-0.80	-0.000956	±2.5	PASS
GPRS850	190	VN	NT	-2.14	-0.002558	±2.5	PASS
GPRS850	190	VL	NT	-10.20	-0.012192	±2.5	PASS
GPRS850	190	VH	NT	0.39	0.000466	±2.5	PASS
GSM850	251	VN	NT	-4.18	-0.004925	±2.5	PASS
GSM850	251	VL	NT	-0.09	-0.000106	±2.5	PASS
GSM850	251	VH	NT	-1.90	-0.002238	±2.5	PASS
GPRS850	251	VN	NT	-2.25	-0.002651	±2.5	PASS
GPRS850	251	VL	NT	-10.06	-0.011852	±2.5	PASS
GPRS850	251	VH	NT	0.14	0.000165	±2.5	PASS
EGPRS850	128	VN	NT	-1.14	-0.001383	±2.5	PASS
EGPRS850	128	VL	NT	7.75	0.009403	±2.5	PASS
EGPRS850	128	VH	NT	3.52	0.004271	±2.5	PASS
EGPRS850	190	VN	NT	-0.77	-0.000920	±2.5	PASS
EGPRS850	190	VL	NT	3.48	0.004160	±2.5	PASS
EGPRS850	190	VH	NT	3.44	0.004112	±2.5	PASS
EGPRS850	251	VN	NT	-7.15	-0.008424	±2.5	PASS
EGPRS850	251	VL	NT	0.57	0.000672	±2.5	PASS
EGPRS850	251	VH	NT	-2.41	-0.002839	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-6.49	-0.007874	±2.5	PASS
GSM850	128	NV	-20	-9.41	-0.011417	±2.5	PASS
GSM850	128	NV	-10	-6.07	-0.007365	±2.5	PASS
GSM850	128	NV	0	-13.60	-0.016501	±2.5	PASS
GSM850	128	NV	10	-3.37	-0.004089	±2.5	PASS

GSM850	128	NV	20	-5.62	-0.006819	±2.5	PASS
GSM850	128	NV	30	-1.20	-0.001456	±2.5	PASS
GSM850	128	NV	40	-2.66	-0.003227	±2.5	PASS
GSM850	128	NV	50	-7.25	-0.008796	±2.5	PASS
GPRS850	128	NV	-30	1.50	0.001820	±2.5	PASS
GPRS850	128	NV	-20	-4.21	-0.005108	±2.5	PASS
GPRS850	128	NV	-10	3.44	0.004174	±2.5	PASS
GPRS850	128	NV	0	-0.83	-0.001007	±2.5	PASS
GPRS850	128	NV	10	-4.20	-0.005096	±2.5	PASS
GPRS850	128	NV	20	-8.30	-0.010070	±2.5	PASS
GPRS850	128	NV	30	2.52	0.003058	±2.5	PASS
GPRS850	128	NV	40	-2.43	-0.002948	±2.5	PASS
GPRS850	128	NV	50	2.54	0.003082	±2.5	PASS
GSM850	190	NV	-30	-6.99	-0.008355	±2.5	PASS
GSM850	190	NV	-20	-7.25	-0.008666	±2.5	PASS
GSM850	190	NV	-10	-4.42	-0.005283	±2.5	PASS
GSM850	190	NV	0	5.27	0.006299	±2.5	PASS
GSM850	190	NV	10	1.54	0.001841	±2.5	PASS
GSM850	190	NV	20	-3.12	-0.003729	±2.5	PASS
GSM850	190	NV	30	-9.24	-0.011045	±2.5	PASS
GSM850	190	NV	40	-5.06	-0.006048	±2.5	PASS
GSM850	190	NV	50	-8.06	-0.009634	±2.5	PASS
GPRS850	190	NV	-30	1.79	0.002140	±2.5	PASS
GPRS850	190	NV	-20	6.14	0.007339	±2.5	PASS
GPRS850	190	NV	-10	6.70	0.008009	±2.5	PASS
GPRS850	190	NV	0	5.57	0.006658	±2.5	PASS
GPRS850	190	NV	10	3.55	0.004243	±2.5	PASS
GPRS850	190	NV	20	2.81	0.003359	±2.5	PASS
GPRS850	190	NV	30	3.21	0.003837	±2.5	PASS
GPRS850	190	NV	40	2.91	0.003478	±2.5	PASS
GPRS850	190	NV	50	-0.43	-0.000514	±2.5	PASS
GSM850	251	NV	-30	-9.58	-0.011287	±2.5	PASS
GSM850	251	NV	-20	-9.84	-0.011593	±2.5	PASS
GSM850	251	NV	-10	5.88	0.006927	±2.5	PASS
GSM850	251	NV	0	-3.63	-0.004277	±2.5	PASS
GSM850	251	NV	10	2.37	0.002792	±2.5	PASS
GSM850	251	NV	20	-4.65	-0.005478	±2.5	PASS
GSM850	251	NV	30	-1.45	-0.001708	±2.5	PASS
GSM850	251	NV	40	-4.31	-0.005078	±2.5	PASS
GSM850	251	NV	50	-8.19	-0.009649	±2.5	PASS
GPRS850	251	NV	-30	-5.44	-0.006409	±2.5	PASS

GPRS850	251	NV	-20	1.72	0.002026	±2.5	PASS
GPRS850	251	NV	-10	5.20	0.006126	±2.5	PASS
GPRS850	251	NV	0	-6.31	-0.007434	±2.5	PASS
GPRS850	251	NV	10	-0.98	-0.001155	±2.5	PASS
GPRS850	251	NV	20	-1.39	-0.001638	±2.5	PASS
GPRS850	251	NV	30	4.57	0.005384	±2.5	PASS
GPRS850	251	NV	40	-2.05	-0.002415	±2.5	PASS
GPRS850	251	NV	50	5.18	0.006103	±2.5	PASS
EGPRS850	128	NV	-30	8.03	0.009743	±2.5	PASS
EGPRS850	128	NV	-20	8.24	0.009998	±2.5	PASS
EGPRS850	128	NV	-10	-4.07	-0.004938	±2.5	PASS
EGPRS850	128	NV	0	0.58	0.000704	±2.5	PASS
EGPRS850	128	NV	10	-0.46	-0.000558	±2.5	PASS
EGPRS850	128	NV	20	3.64	0.004416	±2.5	PASS
EGPRS850	128	NV	30	5.85	0.007098	±2.5	PASS
EGPRS850	128	NV	40	0.71	0.000861	±2.5	PASS
EGPRS850	128	NV	50	5.49	0.006661	±2.5	PASS
EGPRS850	190	NV	-30	-0.93	-0.001112	±2.5	PASS
EGPRS850	190	NV	-20	5.59	0.006682	±2.5	PASS
EGPRS850	190	NV	-10	-3.11	-0.003717	±2.5	PASS
EGPRS850	190	NV	0	1.88	0.002247	±2.5	PASS
EGPRS850	190	NV	10	2.94	0.003514	±2.5	PASS
EGPRS850	190	NV	20	8.41	0.010053	±2.5	PASS
EGPRS850	190	NV	30	-0.57	-0.000681	±2.5	PASS
EGPRS850	190	NV	40	-2.05	-0.002450	±2.5	PASS
EGPRS850	190	NV	50	0.76	0.000908	±2.5	PASS
EGPRS850	251	NV	-30	4.60	0.005419	±2.5	PASS
EGPRS850	251	NV	-20	2.71	0.003193	±2.5	PASS
EGPRS850	251	NV	-10	3.95	0.004654	±2.5	PASS
EGPRS850	251	NV	0	9.82	0.011569	±2.5	PASS
EGPRS850	251	NV	10	2.64	0.003110	±2.5	PASS
EGPRS850	251	NV	20	7.67	0.009036	±2.5	PASS
EGPRS850	251	NV	30	7.27	0.008565	±2.5	PASS
EGPRS850	251	NV	40	5.91	0.006963	±2.5	PASS
EGPRS850	251	NV	50	-5.31	-0.006256	±2.5	PASS

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