Appendix Test Data

Report No.:	18220WC40091004	Test Sample No.:	1-2-2
Start Test Date:	2024.4.29	Finish Test Date:	2023.5.25
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	57 %
Pressure:	101 kPa		

Appendix A: Conducted Output Power

Test Result

Band	Channel	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.96	38.45	PASS
GSM850	190	33.52	38.45	PASS
GSM850	251	33.18	38.45	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	33.92	38.45	PASS
GPRS850	128	2	33.73	38.45	PASS
GPRS850	128	3	32.55	38.45	PASS
GPRS850	128	4	31.63	38.45	PASS
GPRS850	190	1	33.52	38.45	PASS
GPRS850	190	2	33.36	38.45	PASS
GPRS850	190	3	32.28	38.45	PASS
GPRS850	190	4	31.47	38.45	PASS
GPRS850	251	1	33.20	38.45	PASS
GPRS850	251	2	33.04	38.45	PASS
GPRS850	251	3	31.93	38.45	PASS
GPRS850	251	4	31.11	38.45	PASS

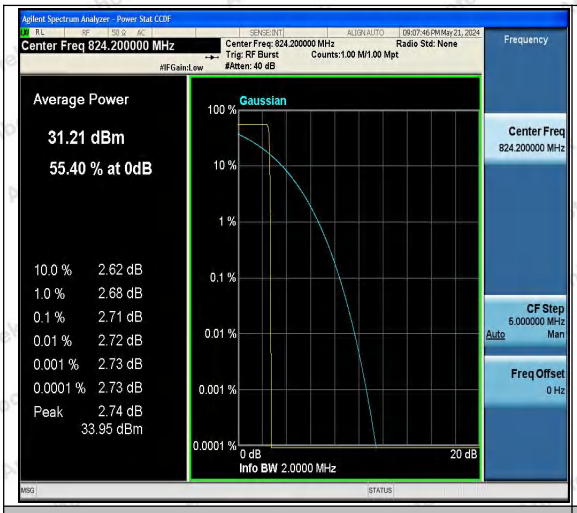
Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.62	38.45	PASS
EGPRS850	128	2	27.49	38.45	PASS
EGPRS850	128	3	25.82	38.45	PASS
EGPRS850	128	4	24.73	38.45	PASS
EGPRS850	190	1	27.49	38.45	PASS
EGPRS850	190	2	27.38	38.45	PASS
EGPRS850	190	3	25.83	38.45	PASS
EGPRS850	190	4	24.81	38.45	PASS
EGPRS850	251	1	27.27	38.45	PASS
EGPRS850	251	2	27.19	38.45	PASS
EGPRS850	251	3	25.69	38.45	PASS
EGPRS850	251	4	24.55	38.45	PASS

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

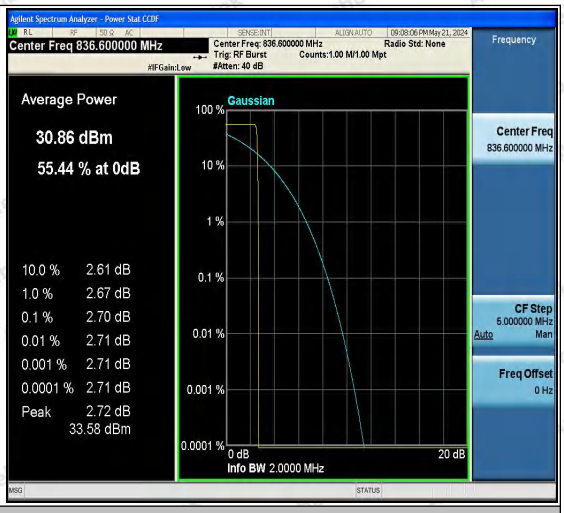
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.71	13	PASS
GSM850	190	2.7	13	PASS
GSM850	251	2.7	13	PASS
GPRS850	128	2.71	13	PASS
GPRS850	190	2.7	13	PASS
GPRS850	251	2.7	13	PASS
EGPRS850	128	5.28	13	PASS
EGPRS850	190	5.17	13	PASS
EGPRS850	251	5.39	13	PASS

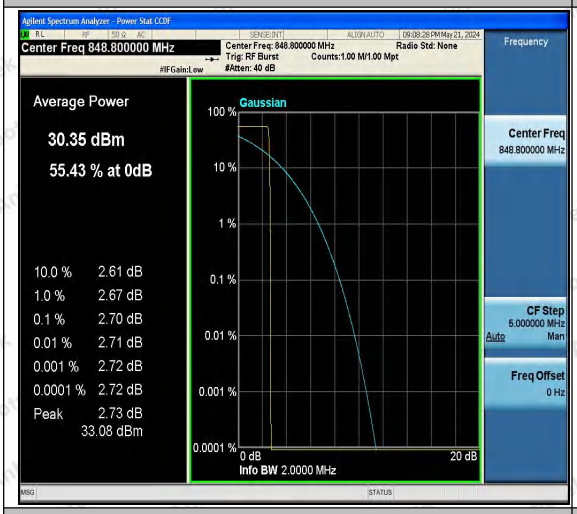
Test Graphs



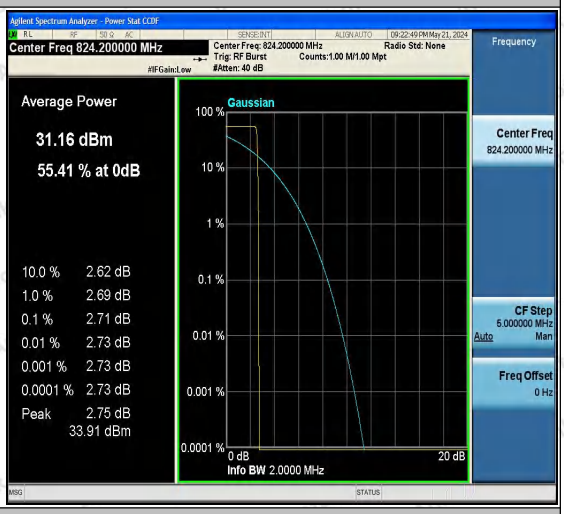
GSM850-128-5-PASS



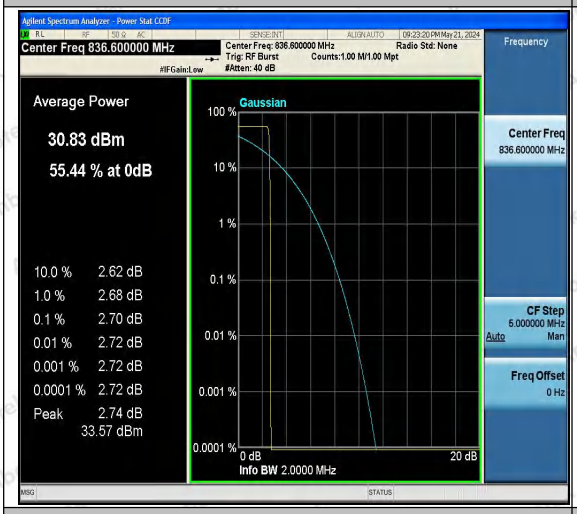
GSM850-190-5-PASS



GSM850-251-5-PASS



GPRS850-128-5-PASS



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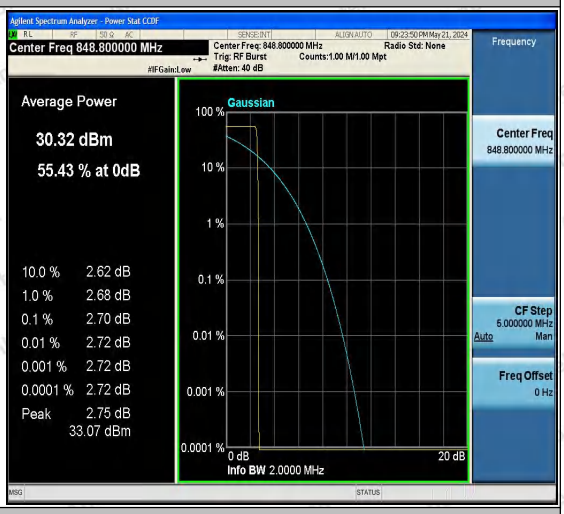
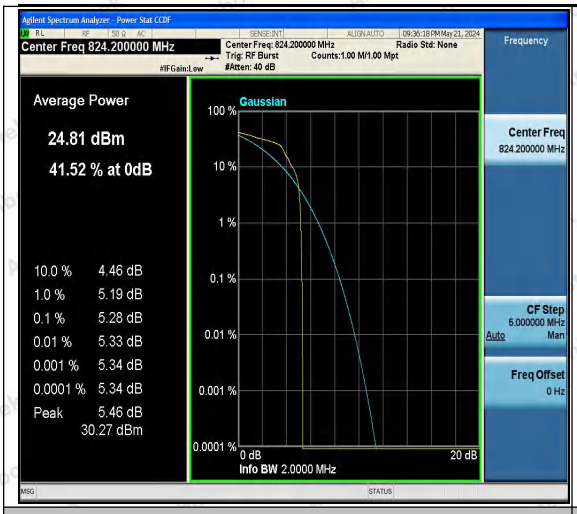
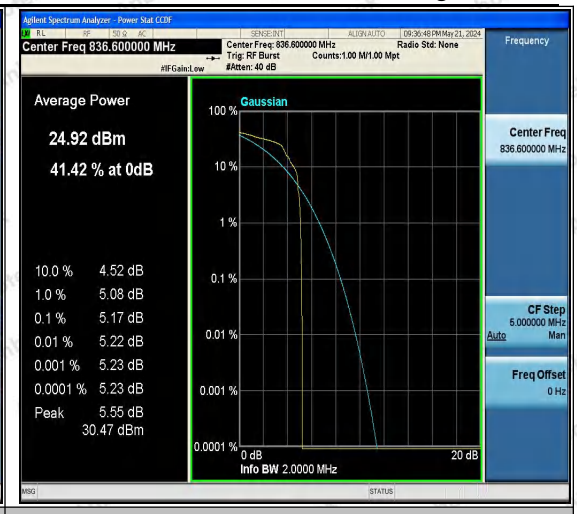


GPRS850-251-5-PASS



EGPRS850-128-8-PASS



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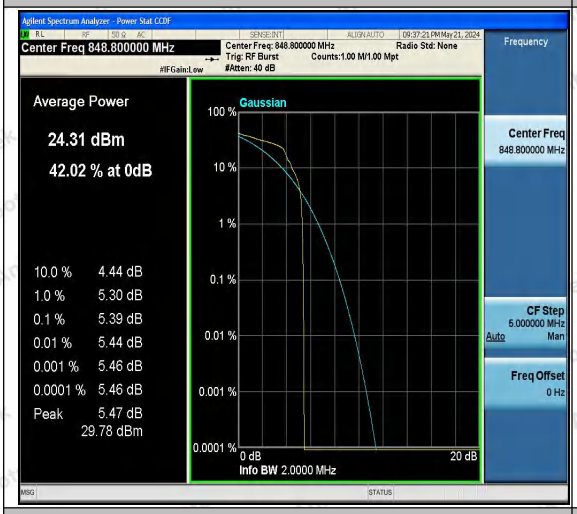


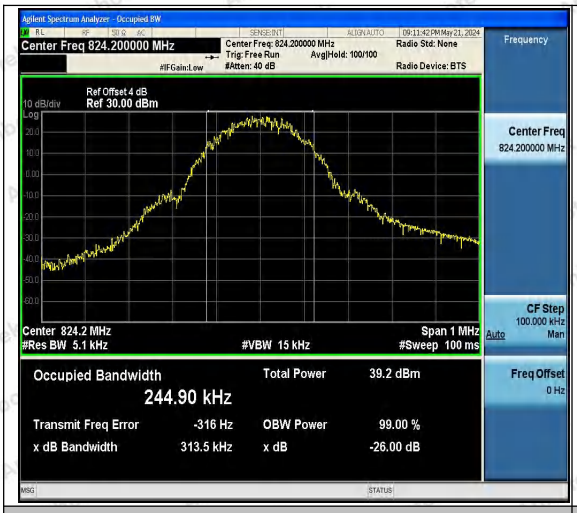
EGPRS850-251-8-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

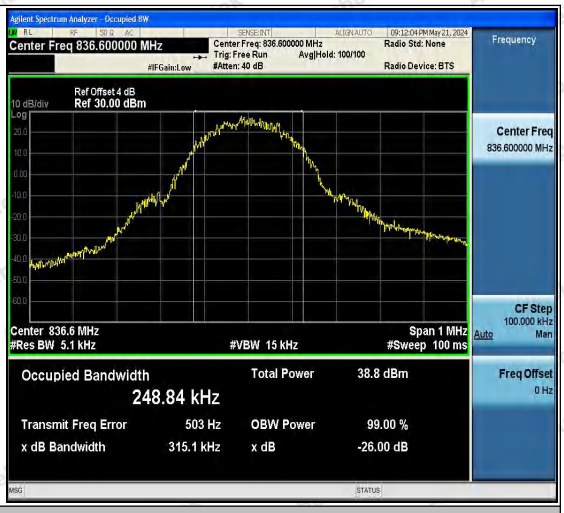
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24490	0.3135	---	PASS
GSM850	190	0.24884	0.3151	---	PASS
GSM850	251	0.24782	0.3108	---	PASS
GPRS850	128	0.24722	0.3132	---	PASS
GPRS850	190	0.24793	0.3129	---	PASS
GPRS850	251	0.24317	0.3210	---	PASS
EGPRS850	128	0.25069	0.3093	---	PASS
EGPRS850	190	0.24577	0.3167	---	PASS
EGPRS850	251	0.24732	0.3196	---	PASS

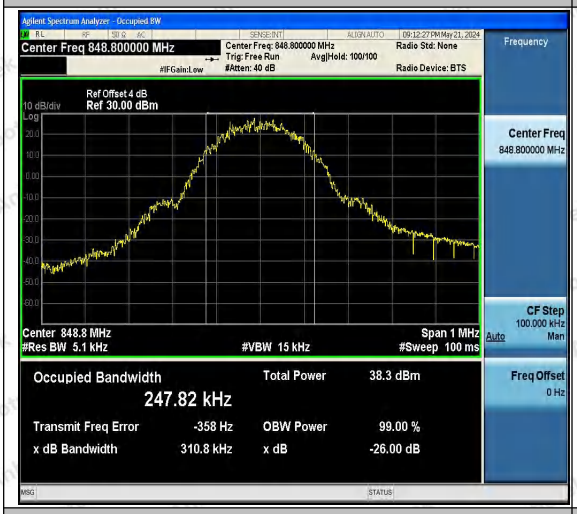
Test Graphs



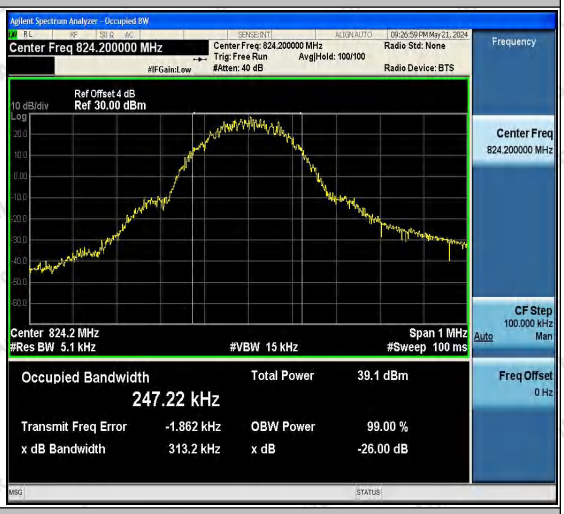
GSM850-128-5-PASS



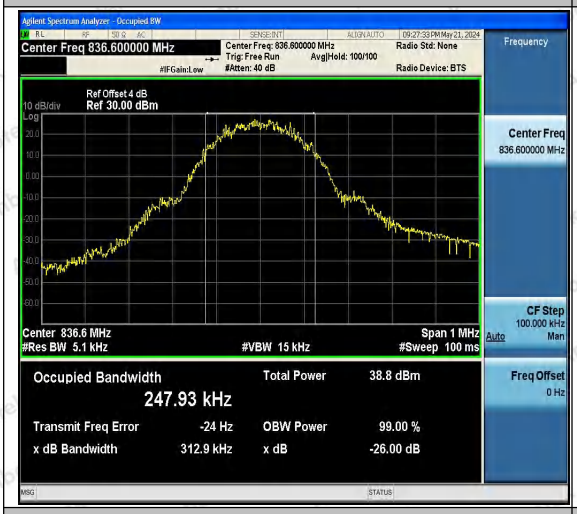
GSM850-190-5-PASS



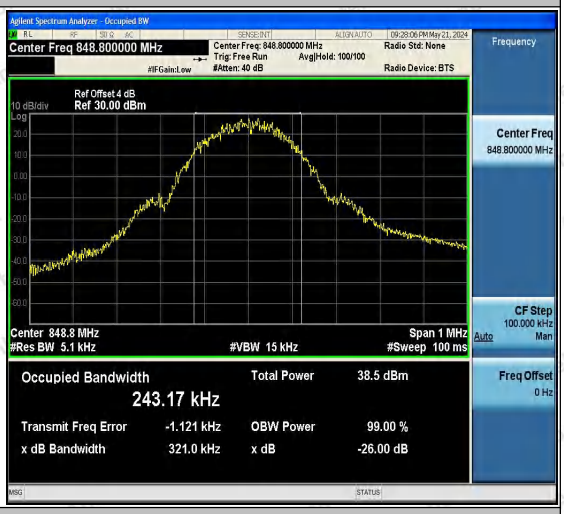
GSM850-251-5-PASS



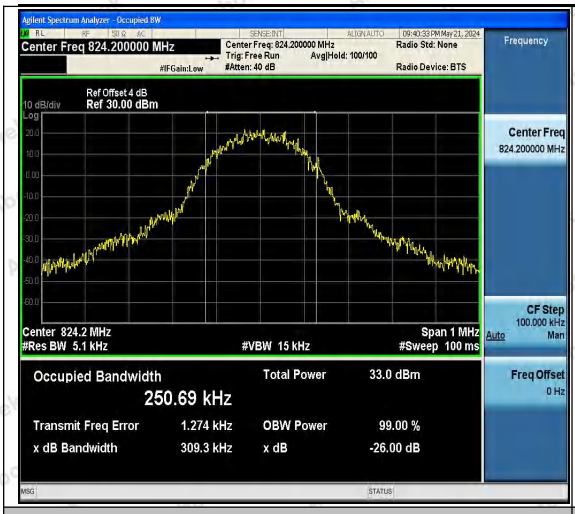
GPRS850-128-5-PASS



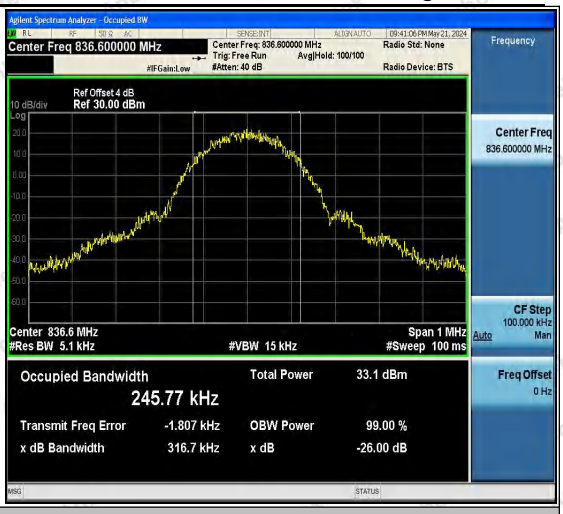
GPRS850-190-5-PASS



GPRS850-251-5-PASS



EGPRS850-128-8-PASS



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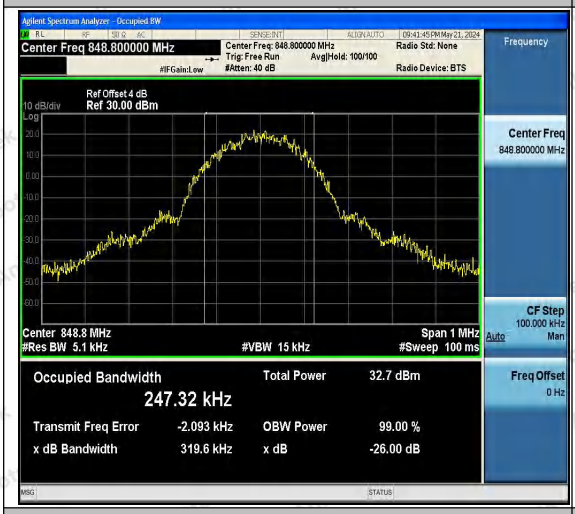


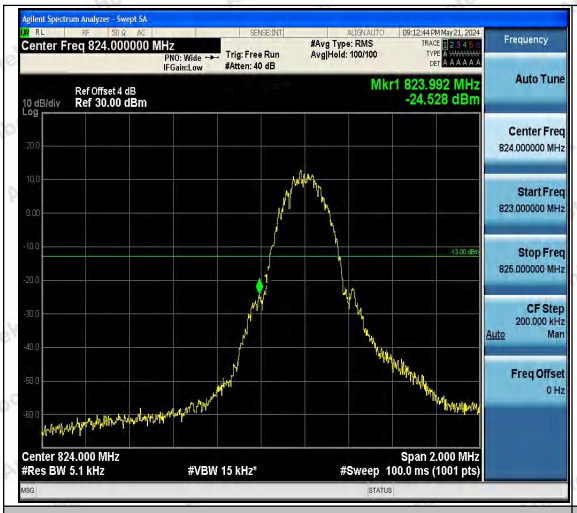
EGPRS850-251-8-PASS

Appendix D: Band Edge

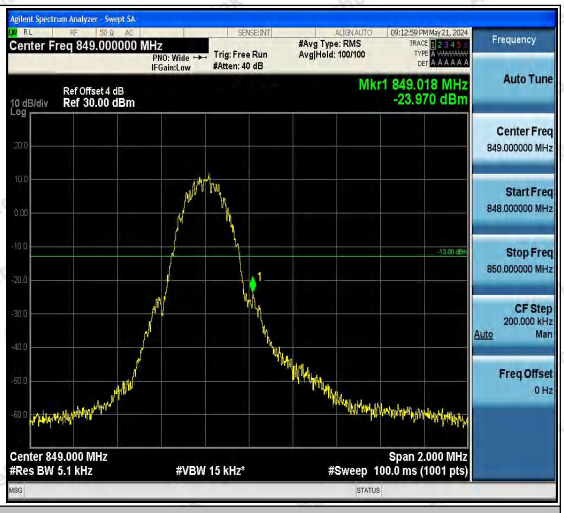
Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.99	-24.53	-13	PASS
GSM850	251	849.02	-23.97	-13	PASS
GPRS850	128	823.98	-23.94	-13	PASS
GPRS850	251	849.02	-24.27	-13	PASS
EGPRS850	128	823.99	-31.07	-13	PASS
EGPRS850	251	849.00	-32.82	-13	PASS

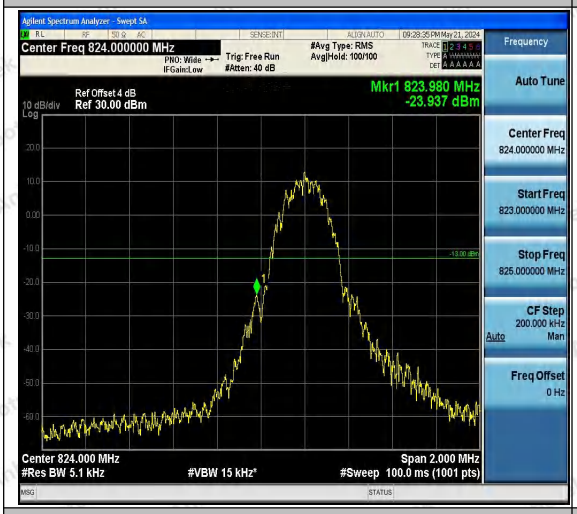
Test Graphs



GSM850-128-5-PASS

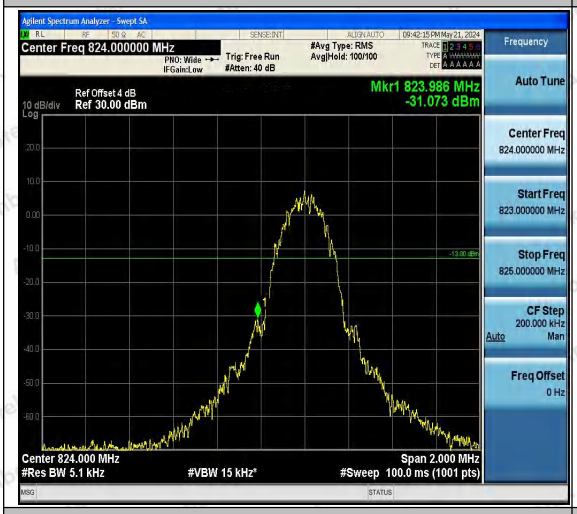


GSM850-251-5-PASS

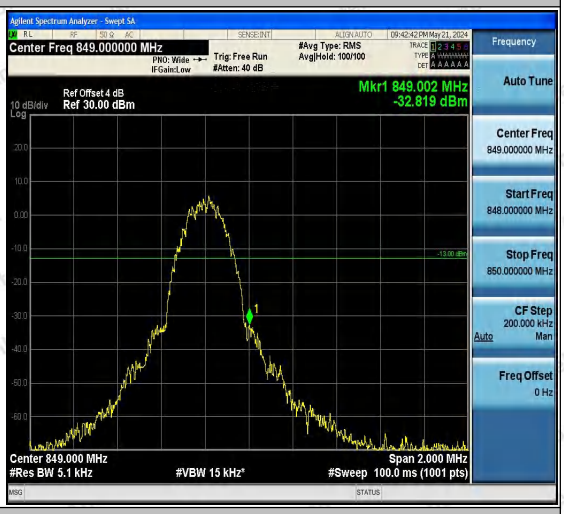


GPRS850-128-5-PASS

GPRS850-251-5-PASS



EGPRS850-128-8-PASS



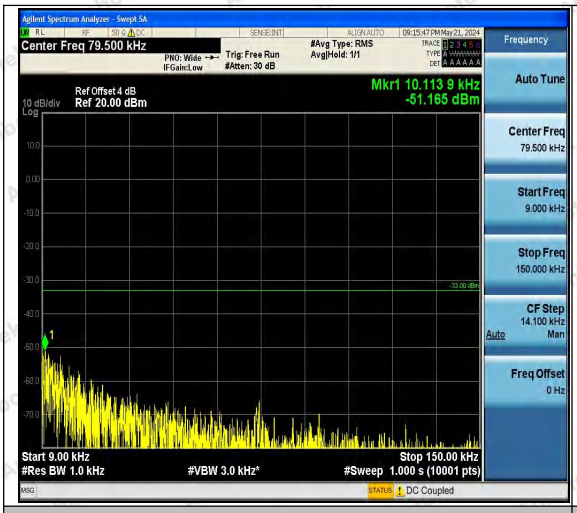
EGPRS850-251-8-PASS

Appendix E: Conducted Spurious Emission

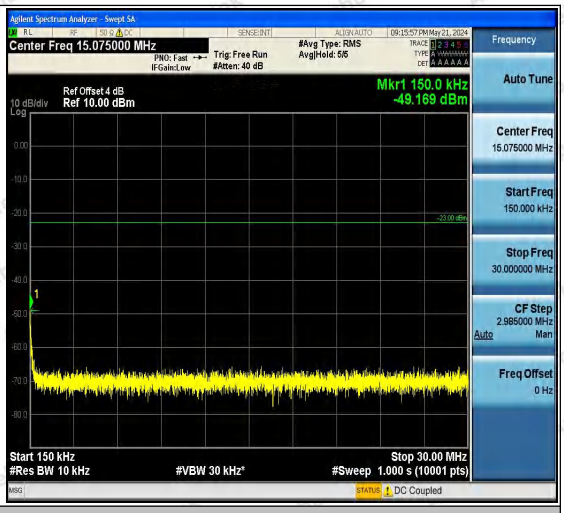
Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-51.17	-33	PASS
GSM850	128	0.15~30MHz	0.15	-49.17	-23	PASS
GSM850	128	30~1000MHz	996.38	-49.52	-13	PASS
GSM850	128	1000~10000MHz	2472.7	-25.56	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-51.67	-33	PASS
GSM850	190	0.15~30MHz	0.15	-49.21	-23	PASS
GSM850	190	30~1000MHz	696.29	-49.86	-13	PASS
GSM850	190	1000~10000MHz	2509	-35.87	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-51.58	-33	PASS
GSM850	251	0.15~30MHz	0.16	-48.52	-23	PASS
GSM850	251	30~1000MHz	977.24	-49.56	-13	PASS
GSM850	251	1000~10000MHz	2546.2	-24.4	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-50.15	-33	PASS
GPRS850	128	0.15~30MHz	0.15	-48.72	-23	PASS
GPRS850	128	30~1000MHz	715.11	-49.67	-13	PASS
GPRS850	128	1000~10000MHz	1648.3	-34.22	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-51.74	-33	PASS
GPRS850	190	0.15~30MHz	0.16	-49.27	-23	PASS
GPRS850	190	30~1000MHz	704.86	-49.67	-13	PASS
GPRS850	190	1000~10000MHz	2509.9	-25	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-50.94	-33	PASS
GPRS850	251	0.15~30MHz	0.15	-48.19	-23	PASS
GPRS850	251	30~1000MHz	696.52	-49.8	-13	PASS
GPRS850	251	1000~10000MHz	1698.1	-46.79	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-51.38	-33	PASS
EGPRS850	128	0.15~30MHz	0.15	-50.26	-23	PASS
EGPRS850	128	30~1000MHz	703.34	-49.91	-13	PASS
EGPRS850	128	1000~10000MHz	2472.4	-35.6	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-50.9	-33	PASS
EGPRS850	190	0.15~30MHz	0.15	-50.11	-23	PASS
EGPRS850	190	30~1000MHz	941.15	-49.57	-13	PASS
EGPRS850	190	1000~10000MHz	5937.7	-53.64	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-51.1	-33	PASS
EGPRS850	251	0.15~30MHz	0.15	-49.11	-23	PASS
EGPRS850	251	30~1000MHz	967.83	-49.71	-13	PASS
EGPRS850	251	1000~10000MHz	2545.9	-39	-13	PASS

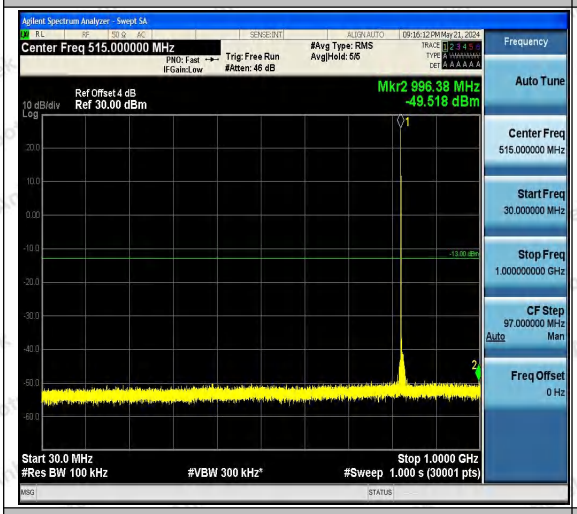
Test Graphs



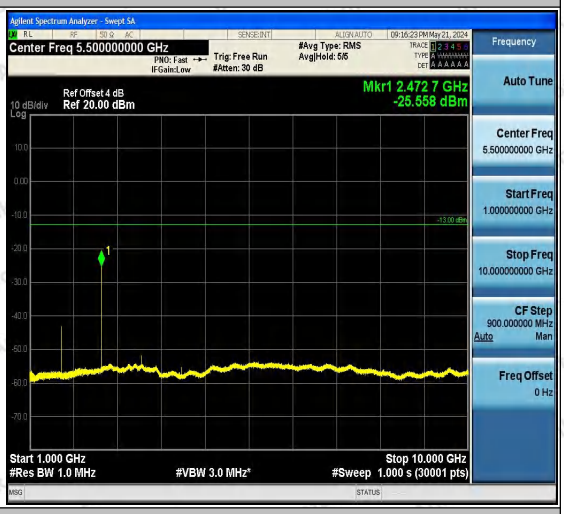
GSM850-128-5-0.009~0.15MHz-PASS



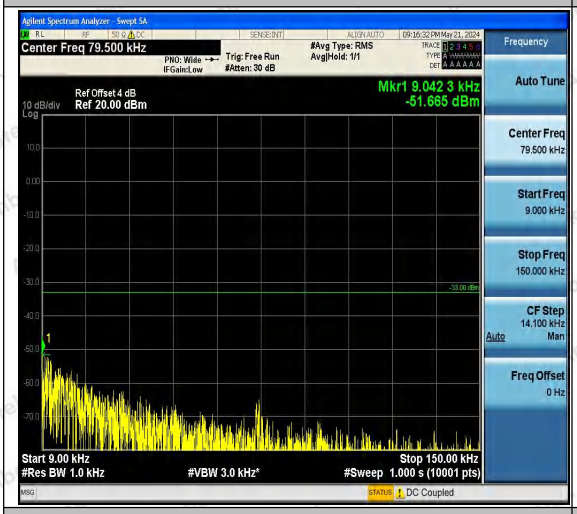
GSM850-128-5-0.15~30MHz-PASS



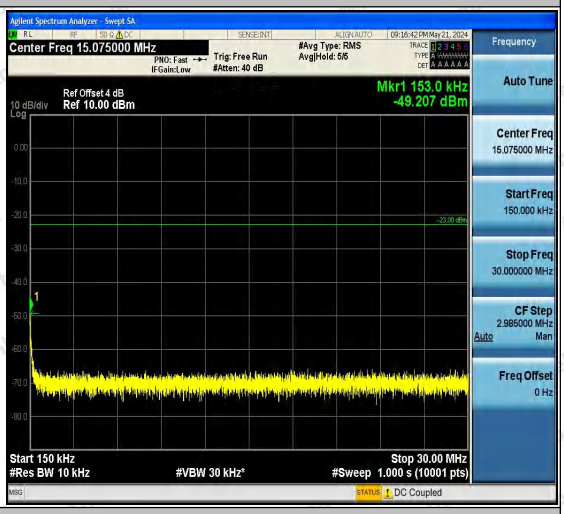
GSM850-128-5-30~1000MHz-PASS



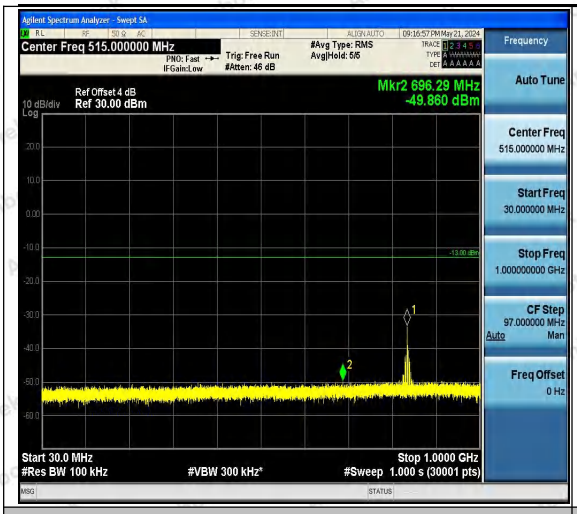
GSM850-128-5-1000~10000MHz-PASS



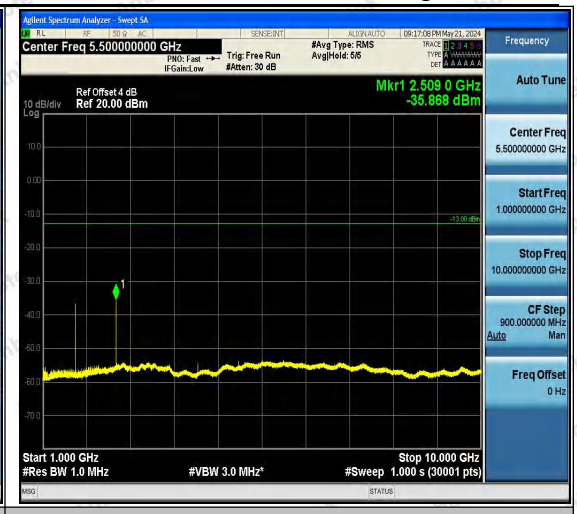
GSM850-190-5-0.009~0.15MHz-PASS



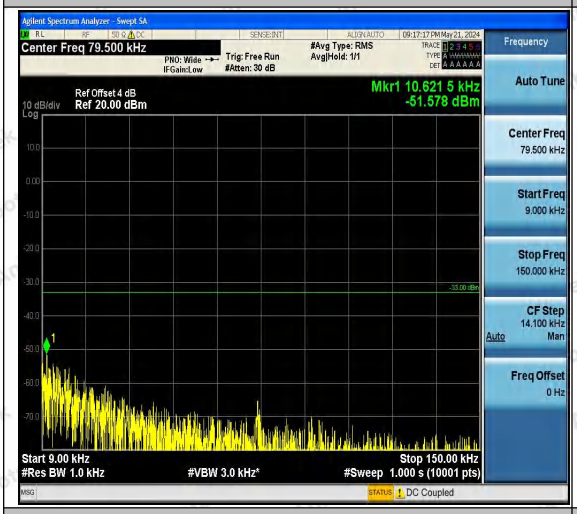
GSM850-190-5-0.15~30MHz-PASS



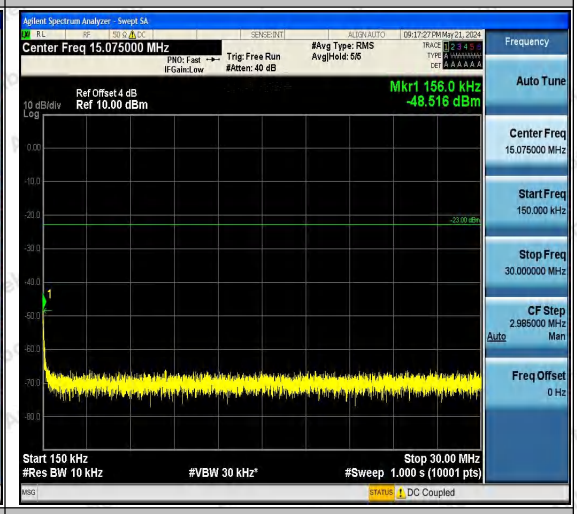
GSM850-190-5-30~1000MHz-PASS



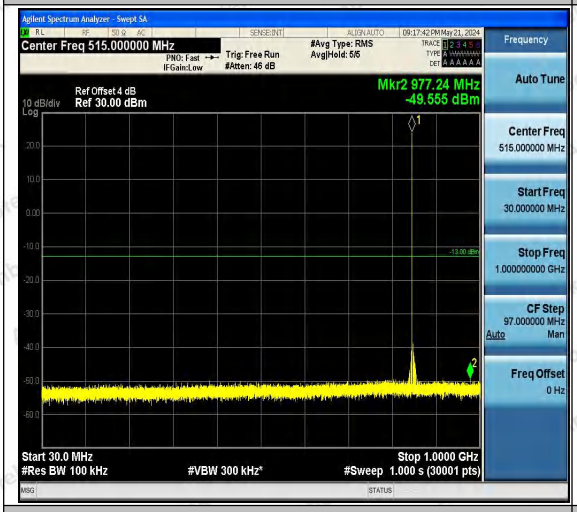
GSM850-190-5-1000~10000MHz-PASS



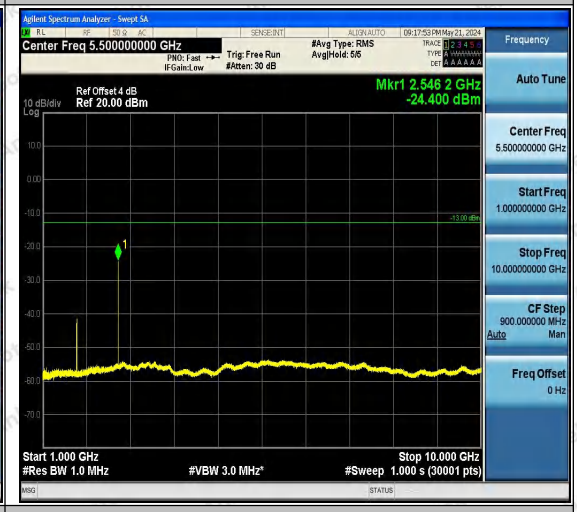
GSM850-251-5-0.009~0.15MHz-PASS



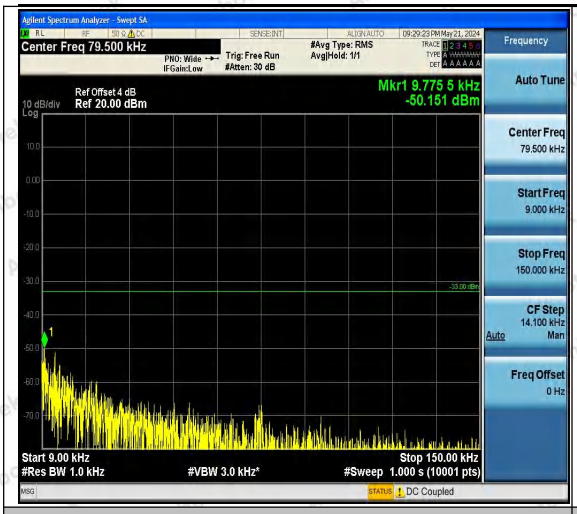
GSM850-251-5-0.15~30MHz-PASS



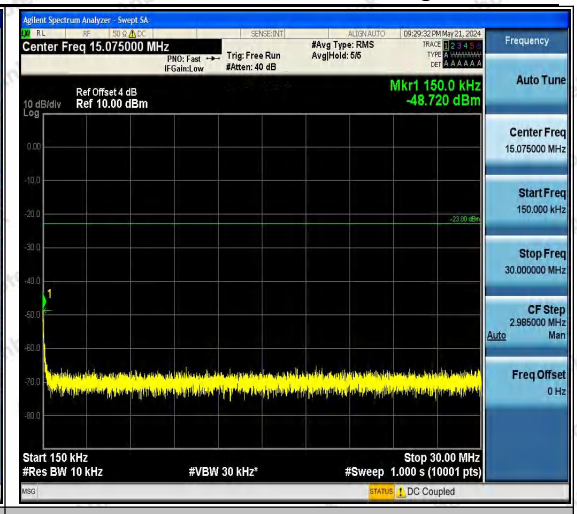
GSM850-251-5-30~1000MHz-PASS



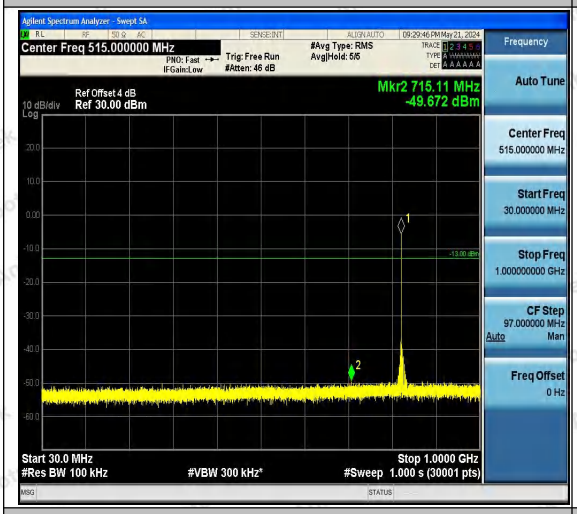
GSM850-251-5-1000~10000MHz-PASS



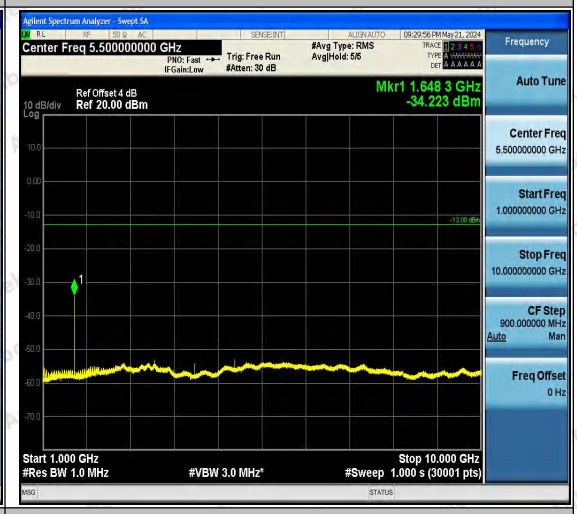
GPRS850-128-5-0.009~0.15MHz-PASS



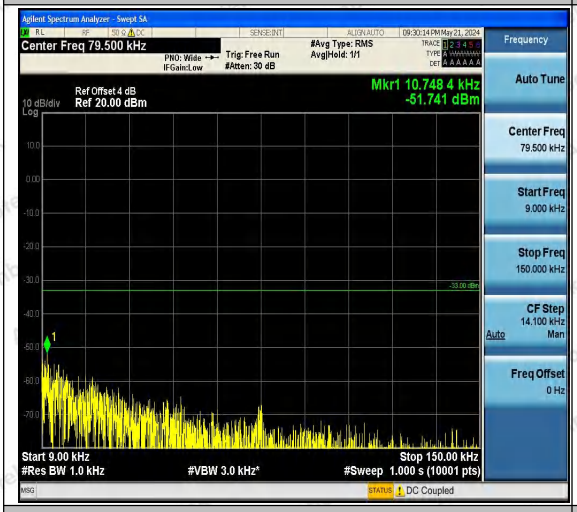
GPRS850-128-5-0.15~30MHz-PASS



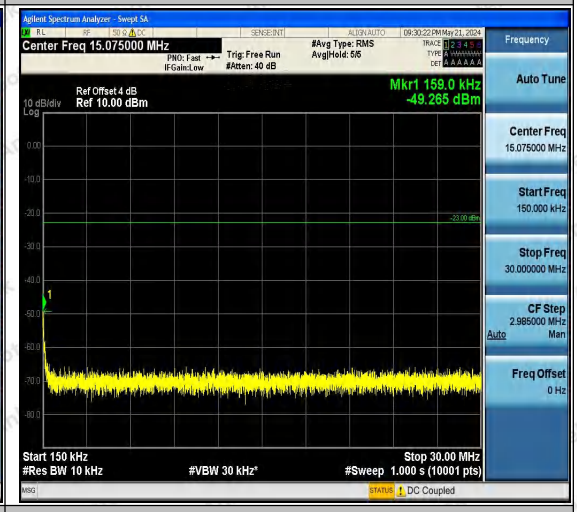
GPRS850-128-5-30~1000MHz-PASS



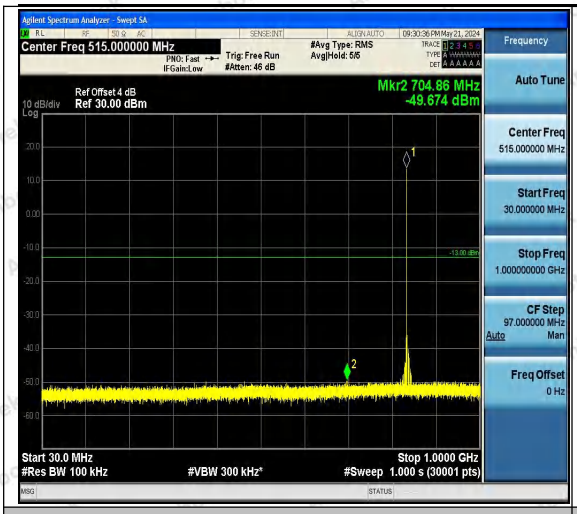
GPRS850-128-5-1000~10000MHz-PASS



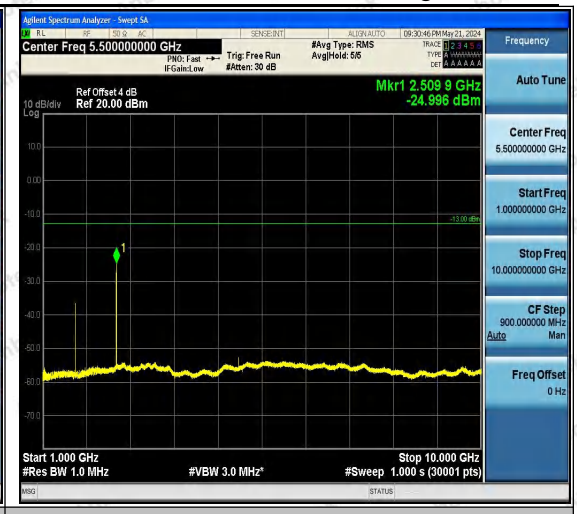
GPRS850-190-5-0.009~0.15MHz-PASS



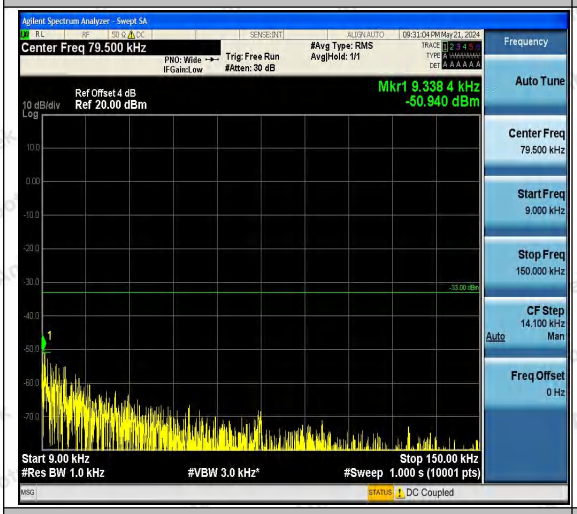
GPRS850-190-5-0.15~30MHz-PASS



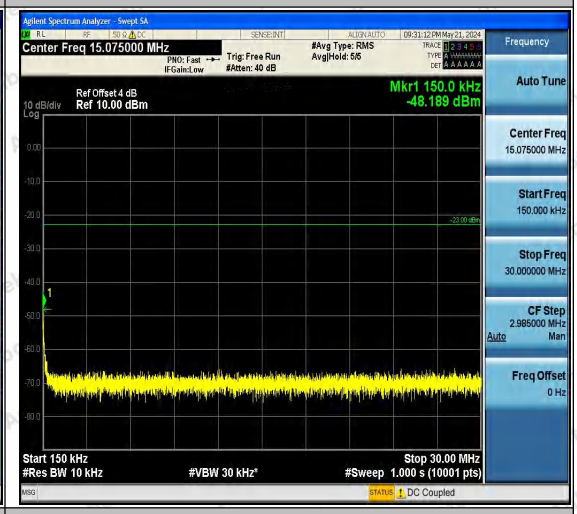
GPRS850-190-5-30~1000MHz-PASS



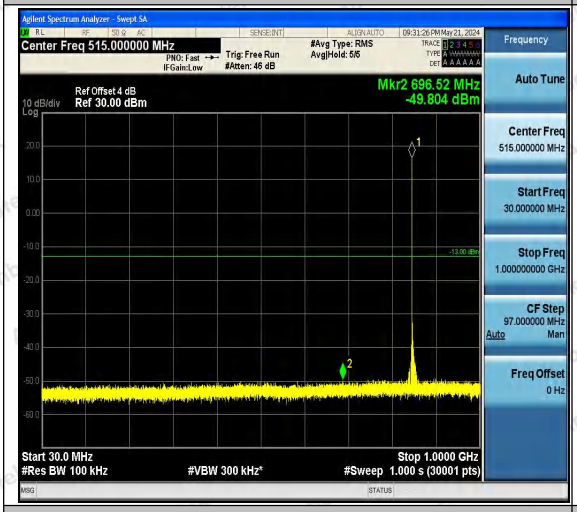
GPRS850-190-5-1000~10000MHz-PASS



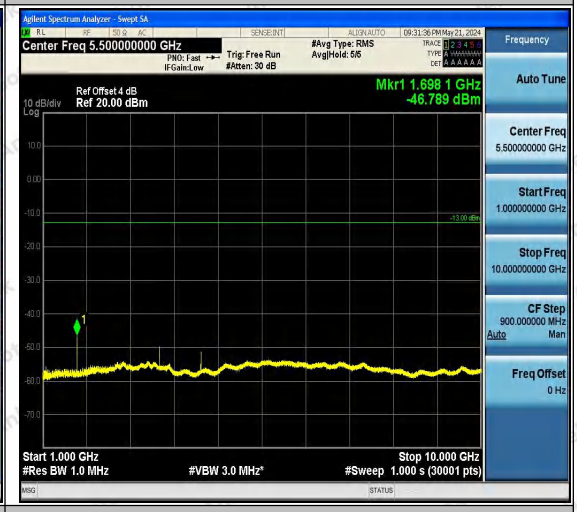
GPRS850-251-5-0.009~0.15MHz-PASS



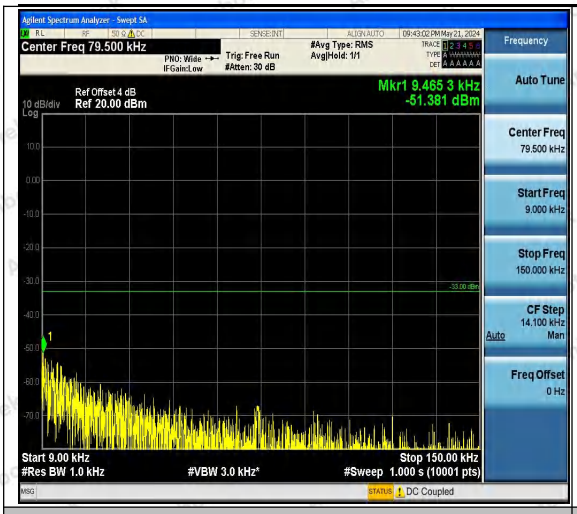
GPRS850-251-5-0.15~30MHz-PASS



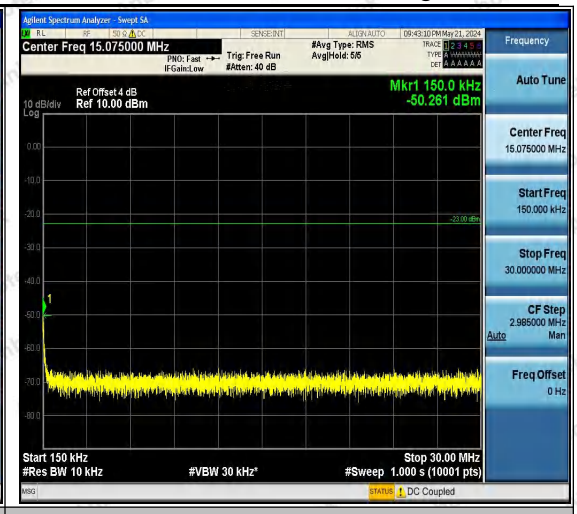
GPRS850-251-5-30~1000MHz-PASS



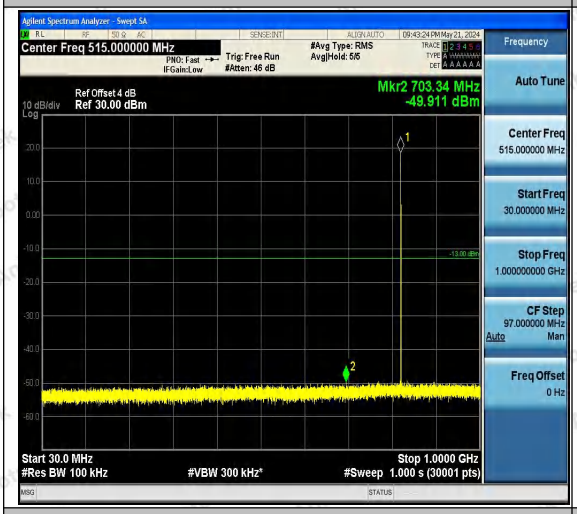
GPRS850-251-5-1000~10000MHz-PASS



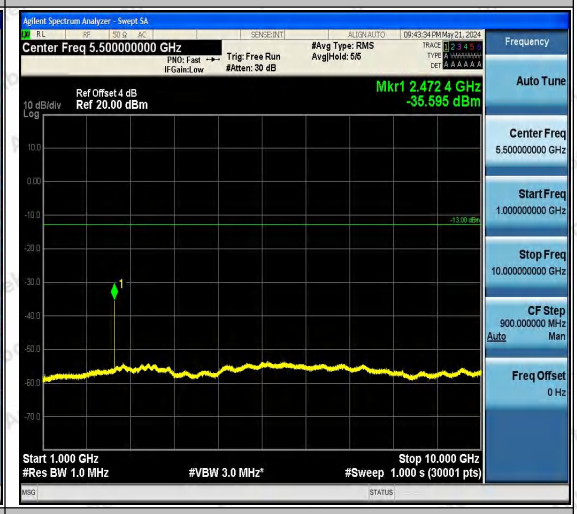
EGPRS850-128-8-0.009~0.15MHz-PASS



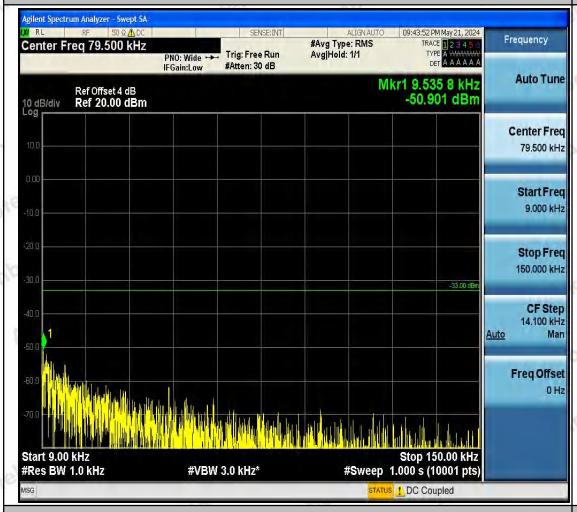
EGPRS850-128-8-0.15~30MHz-PASS



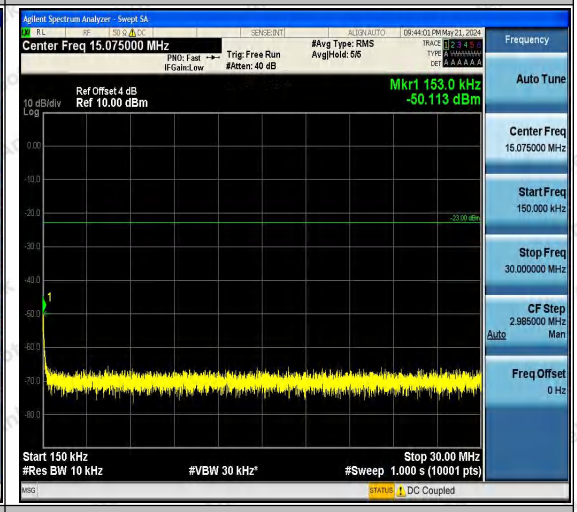
EGPRS850-128-8-30~1000MHz-PASS



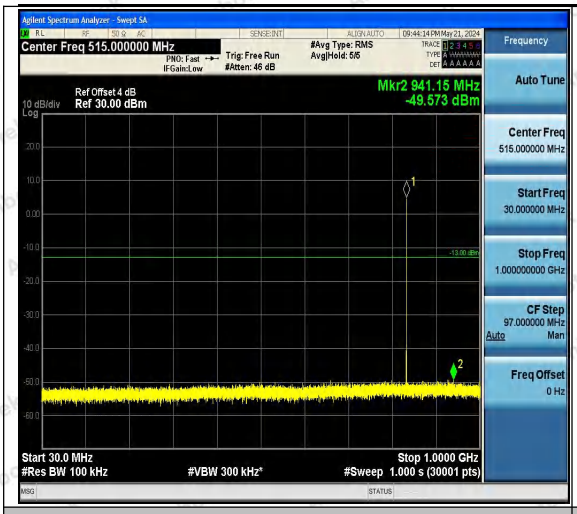
EGPRS850-128-8-1000~10000MHz-PASS



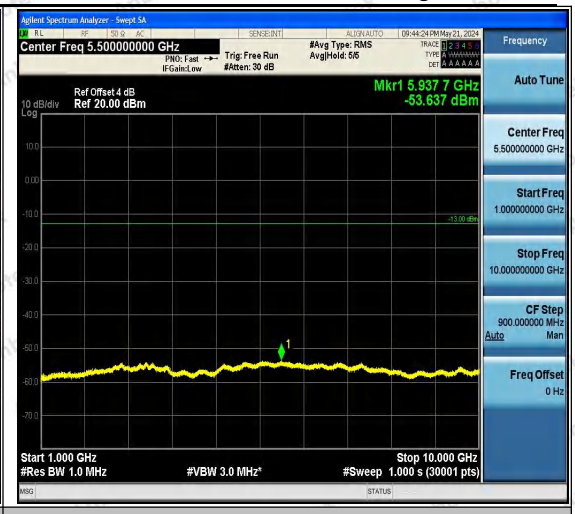
EGPRS850-190-8-0.009~0.15MHz-PASS



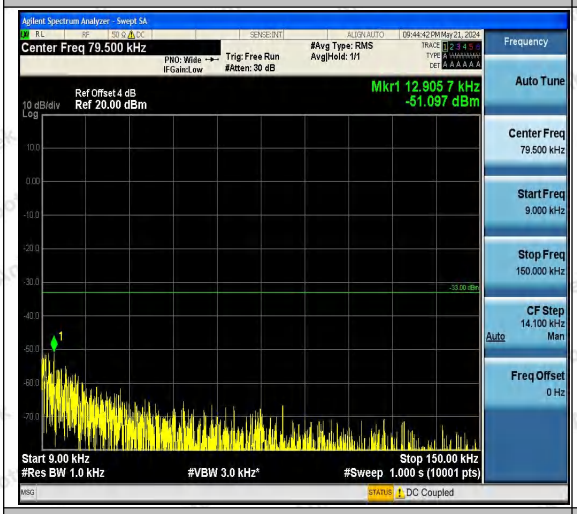
EGPRS850-190-8-0.15~30MHz-PASS



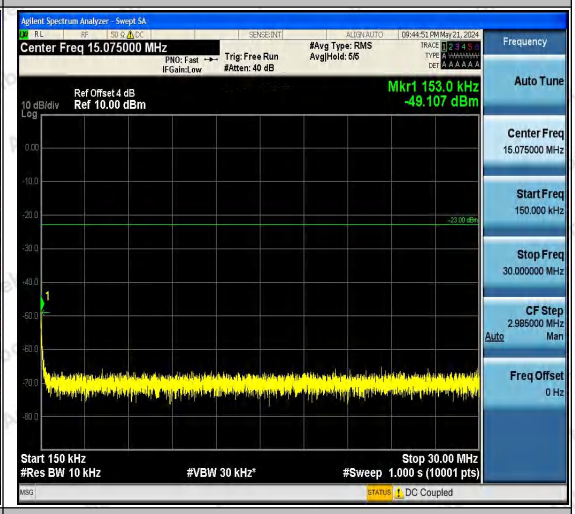
EGPRS850-190-8-30~1000MHz-PASS



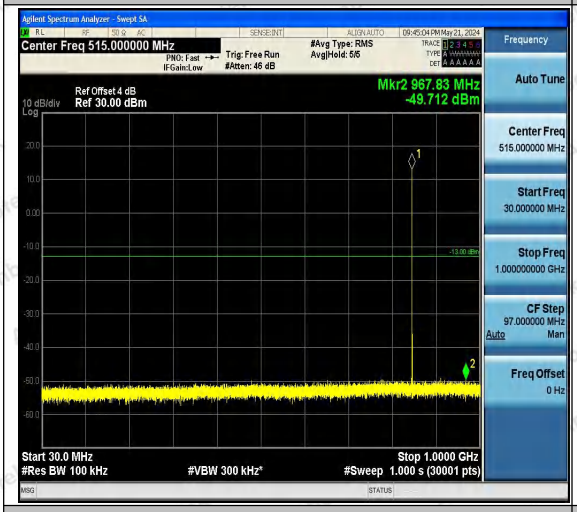
EGPRS850-190-8-1000~10000MHz-PASS



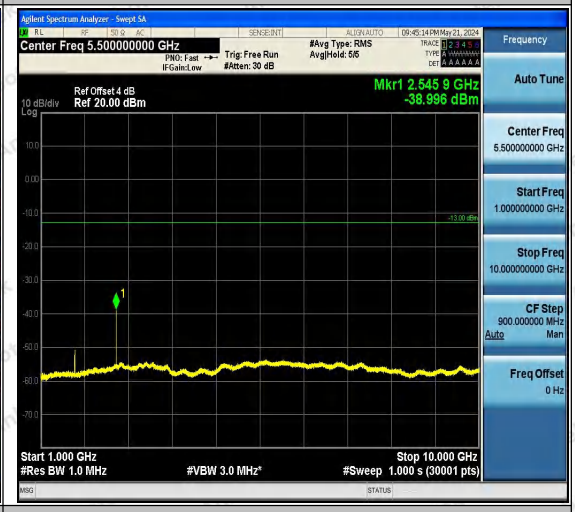
EGPRS850-251-8-0.009~0.15MHz-PASS



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



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



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

Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	-2.97	-0.003603	±2.5	PASS
GSM850	128	VL	NT	-2.42	-0.002936	±2.5	PASS
GSM850	128	VH	NT	-1.81	-0.002196	±2.5	PASS
GSM850	190	VN	NT	-1.29	-0.001542	±2.5	PASS
GSM850	190	VL	NT	-4.36	-0.005212	±2.5	PASS
GSM850	190	VH	NT	-1.16	-0.001387	±2.5	PASS
GSM850	251	VN	NT	-1.55	-0.001826	±2.5	PASS
GSM850	251	VL	NT	-2.10	-0.002474	±2.5	PASS
GSM850	251	VH	NT	-4.07	-0.004795	±2.5	PASS
GPRS850	128	VN	NT	-2.68	-0.003252	±2.5	PASS
GPRS850	128	VL	NT	-4.39	-0.005326	±2.5	PASS
GPRS850	128	VH	NT	-4.91	-0.005957	±2.5	PASS
GPRS850	190	VN	NT	-5.33	-0.006371	±2.5	PASS
GPRS850	190	VL	NT	-5.78	-0.006909	±2.5	PASS
GPRS850	190	VH	NT	-5.23	-0.006251	±2.5	PASS
GPRS850	251	VN	NT	-5.39	-0.006350	±2.5	PASS
GPRS850	251	VL	NT	-2.45	-0.002886	±2.5	PASS
GPRS850	251	VH	NT	-6.65	-0.007835	±2.5	PASS
EGPRS850	128	VN	NT	-0.26	-0.000315	±2.5	PASS
EGPRS850	128	VL	NT	-2.49	-0.003021	±2.5	PASS
EGPRS850	128	VH	NT	-0.06	-0.000073	±2.5	PASS
EGPRS850	190	VN	NT	3.00	0.003586	±2.5	PASS
EGPRS850	190	VL	NT	0.90	0.001076	±2.5	PASS
EGPRS850	190	VH	NT	2.68	0.003203	±2.5	PASS
EGPRS850	251	VN	NT	-2.97	-0.003499	±2.5	PASS
EGPRS850	251	VL	NT	2.94	0.003464	±2.5	PASS
EGPRS850	251	VH	NT	-0.26	-0.000306	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-5.20	-0.006309	±2.5	PASS
GSM850	128	NV	-20	-3.03	-0.003676	±2.5	PASS
GSM850	128	NV	-10	-5.23	-0.006346	±2.5	PASS
GSM850	128	NV	0	-7.39	-0.008966	±2.5	PASS

GSM850	128	NV	10	-6.97	-0.008457	±2.5	PASS
GSM850	128	NV	20	-4.91	-0.005957	±2.5	PASS
GSM850	128	NV	30	-3.68	-0.004465	±2.5	PASS
GSM850	128	NV	40	-5.81	-0.007049	±2.5	PASS
GSM850	128	NV	50	-3.91	-0.004744	±2.5	PASS
GSM850	190	NV	-30	-0.55	-0.000657	±2.5	PASS
GSM850	190	NV	-20	-3.10	-0.003705	±2.5	PASS
GSM850	190	NV	-10	-4.68	-0.005594	±2.5	PASS
GSM850	190	NV	0	-3.81	-0.004554	±2.5	PASS
GSM850	190	NV	10	-7.75	-0.009264	±2.5	PASS
GSM850	190	NV	20	-4.68	-0.005594	±2.5	PASS
GSM850	190	NV	30	-2.68	-0.003203	±2.5	PASS
GSM850	190	NV	40	-4.94	-0.005905	±2.5	PASS
GSM850	190	NV	50	-6.10	-0.007291	±2.5	PASS
GSM850	251	NV	-30	-3.62	-0.004265	±2.5	PASS
GSM850	251	NV	-20	-2.71	-0.003193	±2.5	PASS
GSM850	251	NV	-10	-3.00	-0.003534	±2.5	PASS
GSM850	251	NV	0	-4.46	-0.005254	±2.5	PASS
GSM850	251	NV	10	-0.52	-0.000613	±2.5	PASS
GSM850	251	NV	20	-2.10	-0.002474	±2.5	PASS
GSM850	251	NV	30	-4.07	-0.004795	±2.5	PASS
GSM850	251	NV	40	-2.29	-0.002698	±2.5	PASS
GSM850	251	NV	50	-2.87	-0.003381	±2.5	PASS
GPRS850	128	NV	-30	-3.91	-0.004744	±2.5	PASS
GPRS850	128	NV	-20	-5.65	-0.006855	±2.5	PASS
GPRS850	128	NV	-10	-11.59	-0.014062	±2.5	PASS
GPRS850	128	NV	0	-6.72	-0.008153	±2.5	PASS
GPRS850	128	NV	10	-5.46	-0.006625	±2.5	PASS
GPRS850	128	NV	20	-5.33	-0.006467	±2.5	PASS
GPRS850	128	NV	30	-6.46	-0.007838	±2.5	PASS
GPRS850	128	NV	40	-0.39	-0.000473	±2.5	PASS
GPRS850	128	NV	50	-4.84	-0.005872	±2.5	PASS
GPRS850	190	NV	-30	-3.39	-0.004052	±2.5	PASS
GPRS850	190	NV	-20	-2.55	-0.003048	±2.5	PASS
GPRS850	190	NV	-10	-5.39	-0.006443	±2.5	PASS
GPRS850	190	NV	0	-4.58	-0.005475	±2.5	PASS
GPRS850	190	NV	10	-6.04	-0.007220	±2.5	PASS
GPRS850	190	NV	20	-5.42	-0.006479	±2.5	PASS
GPRS850	190	NV	30	-5.10	-0.006096	±2.5	PASS
GPRS850	190	NV	40	-4.23	-0.005056	±2.5	PASS
GPRS850	190	NV	50	-4.49	-0.005367	±2.5	PASS

GPRS850	251	NV	-30	-4.65	-0.005478	±2.5	PASS
GPRS850	251	NV	-20	-5.42	-0.006385	±2.5	PASS
GPRS850	251	NV	-10	-0.52	-0.000613	±2.5	PASS
GPRS850	251	NV	0	-3.33	-0.003923	±2.5	PASS
GPRS850	251	NV	10	-0.71	-0.000836	±2.5	PASS
GPRS850	251	NV	20	-3.58	-0.004218	±2.5	PASS
GPRS850	251	NV	30	-7.36	-0.008671	±2.5	PASS
GPRS850	251	NV	40	-4.52	-0.005325	±2.5	PASS
GPRS850	251	NV	50	-7.49	-0.008824	±2.5	PASS
EGPRS850	128	NV	-30	-4.65	-0.005642	±2.5	PASS
EGPRS850	128	NV	-20	-2.26	-0.002742	±2.5	PASS
EGPRS850	128	NV	-10	-2.16	-0.002621	±2.5	PASS
EGPRS850	128	NV	0	-0.77	-0.000934	±2.5	PASS
EGPRS850	128	NV	10	-2.39	-0.002900	±2.5	PASS
EGPRS850	128	NV	20	-1.65	-0.002002	±2.5	PASS
EGPRS850	128	NV	30	-1.10	-0.001335	±2.5	PASS
EGPRS850	128	NV	40	0.52	0.000631	±2.5	PASS
EGPRS850	128	NV	50	2.23	0.002706	±2.5	PASS
EGPRS850	190	NV	-30	4.68	0.005594	±2.5	PASS
EGPRS850	190	NV	-20	-2.78	-0.003323	±2.5	PASS
EGPRS850	190	NV	-10	-1.87	-0.002235	±2.5	PASS
EGPRS850	190	NV	0	1.49	0.001781	±2.5	PASS
EGPRS850	190	NV	10	0.81	0.000968	±2.5	PASS
EGPRS850	190	NV	20	0.26	0.000311	±2.5	PASS
EGPRS850	190	NV	30	3.71	0.004435	±2.5	PASS
EGPRS850	190	NV	40	-0.45	-0.000538	±2.5	PASS
EGPRS850	190	NV	50	0.68	0.000813	±2.5	PASS
EGPRS850	251	NV	-30	2.16	0.002545	±2.5	PASS
EGPRS850	251	NV	-20	-0.77	-0.000907	±2.5	PASS
EGPRS850	251	NV	-10	-2.13	-0.002509	±2.5	PASS
EGPRS850	251	NV	0	0.58	0.000683	±2.5	PASS
EGPRS850	251	NV	10	-1.23	-0.001449	±2.5	PASS
EGPRS850	251	NV	20	-1.45	-0.001708	±2.5	PASS
EGPRS850	251	NV	30	-1.00	-0.001178	±2.5	PASS
EGPRS850	251	NV	40	0.74	0.000872	±2.5	PASS
EGPRS850	251	NV	50	0.74	0.000872	±2.5	PASS

---END---