

GSM Test Data

General Description of EUT	
Product Name:	GPS Tracker
Test Model:	C003
Sample ID:	HC-C-202510-0290-01-01#
Environmental Conditions	
Temperature:	22.0℃-25℃
Relative Humidity:	43%-55%
Test Voltage:	DC 12V
Test Engineer:	Gold Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202510-0290-1 The report only show the worst case data.	

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1: Conducted Output Power Data

Test Result

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	33.34	38.45	PASS
GPRS850	190	1	33.42	38.45	PASS
GPRS850	251	1	32.99	38.45	PASS
GPRS850	128	2	33.61	38.45	PASS
GPRS850	190	2	33.28	38.45	PASS
GPRS850	251	2	32.96	38.45	PASS
GPRS850	128	3	0.00	38.45	PASS
GPRS850	190	3	32.07	38.45	PASS
GPRS850	251	3	32.15	38.45	PASS
GPRS850	128	4	30.61	38.45	PASS
GPRS850	190	4	30.05	38.45	PASS
GPRS850	251	4	30.31	38.45	PASS
GPRS1900	512	1	31.88	33	PASS
GPRS1900	661	1	31.77	33	PASS
GPRS1900	810	1	32.16	33	PASS
GPRS1900	512	2	31.82	33	PASS
GPRS1900	661	2	31.73	33	PASS
GPRS1900	810	2	32.10	33	PASS
GPRS1900	512	3	30.45	33	PASS
GPRS1900	661	3	30.15	33	PASS
GPRS1900	810	3	30.57	33	PASS
GPRS1900	512	4	28.65	33	PASS
GPRS1900	661	4	28.24	33	PASS
GPRS1900	810	4	28.01	33	PASS

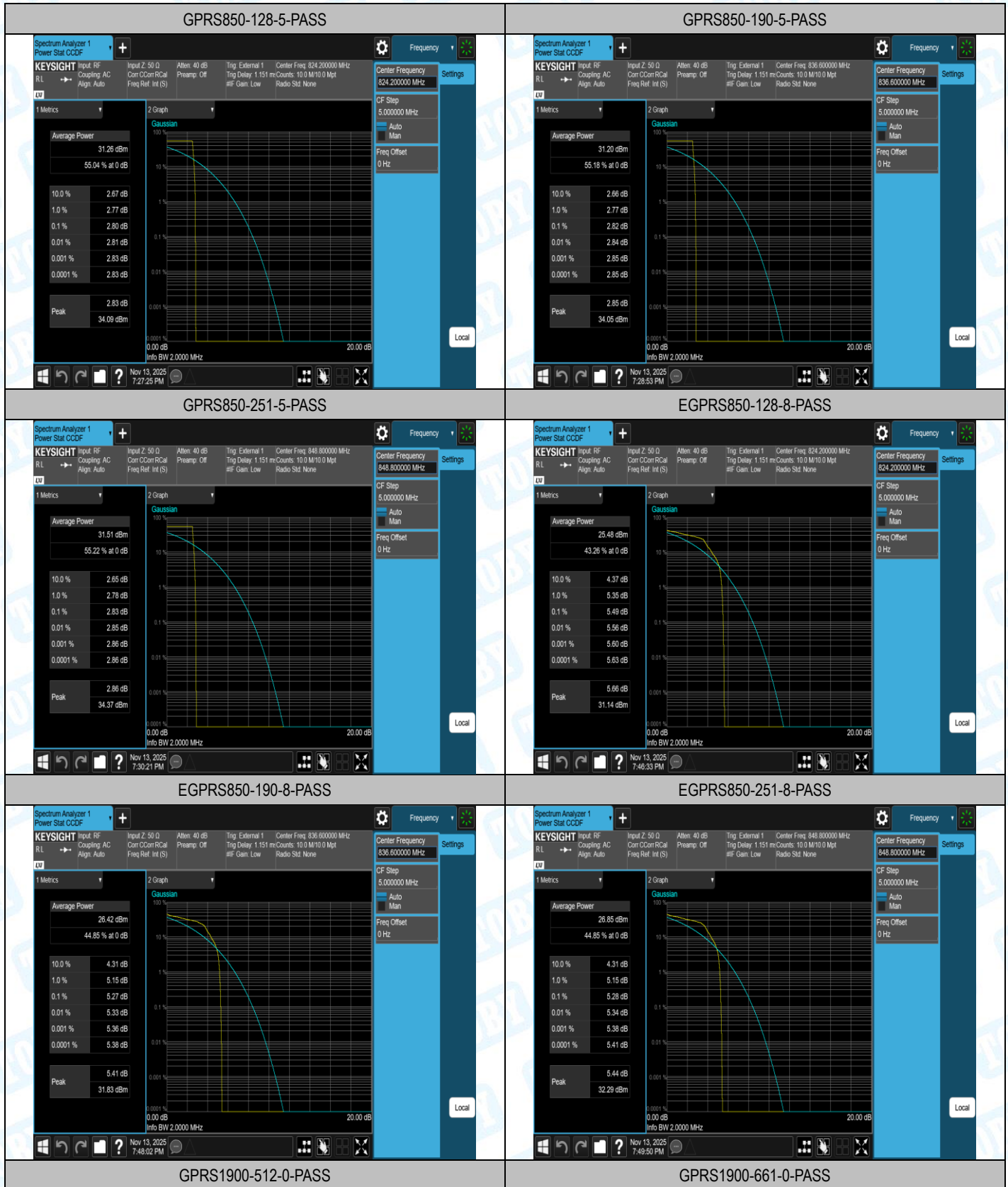
Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	28.64	38.45	PASS
EGPRS850	190	1	28.00	38.45	PASS
EGPRS850	251	1	28.35	38.45	PASS
EGPRS850	128	2	26.04	38.45	PASS
EGPRS850	190	2	26.77	38.45	PASS
EGPRS850	251	2	26.79	38.45	PASS
EGPRS850	128	3	24.07	38.45	PASS
EGPRS850	190	3	24.59	38.45	PASS
EGPRS850	251	3	24.60	38.45	PASS
EGPRS850	128	4	21.57	38.45	PASS
EGPRS850	190	4	22.24	38.45	PASS
EGPRS850	251	4	22.22	38.45	PASS
EGPRS1900	512	1	28.55	33	PASS
EGPRS1900	661	1	28.52	33	PASS
EGPRS1900	810	1	27.82	33	PASS
EGPRS1900	512	2	26.65	33	PASS
EGPRS1900	661	2	26.89	33	PASS
EGPRS1900	810	2	26.04	33	PASS
EGPRS1900	512	3	24.63	33	PASS
EGPRS1900	661	3	24.92	33	PASS
EGPRS1900	810	3	24.13	33	PASS
EGPRS1900	512	4	22.95	33	PASS
EGPRS1900	661	4	22.90	33	PASS
EGPRS1900	810	4	22.07	33	PASS

2: Peak-to-Average Ratio(CCDF)

Test Result

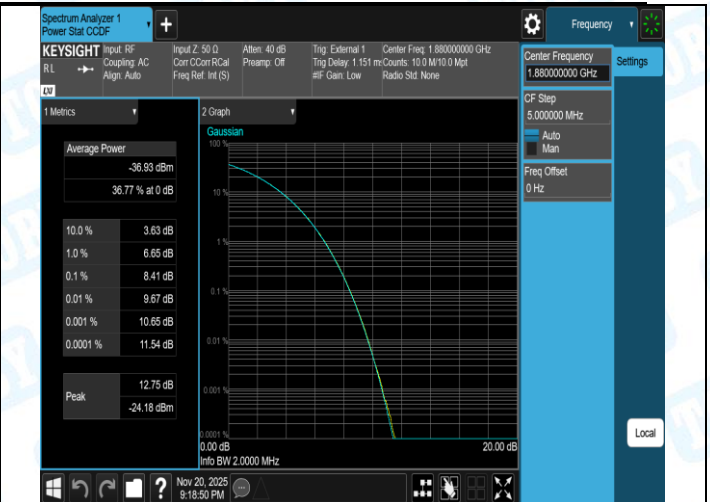
Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	128	2.80	13	PASS
GPRS850	190	2.82	13	PASS
GPRS850	251	2.83	13	PASS
EGPRS850	128	5.49	13	PASS
EGPRS850	190	5.27	13	PASS
EGPRS850	251	5.28	13	PASS
GPRS1900	512	8.41	13	PASS
GPRS1900	661	8.41	13	PASS
GPRS1900	810	8.42	13	PASS
EGPRS1900	512	5.31	13	PASS
EGPRS1900	661	5.36	13	PASS
EGPRS1900	810	5.44	13	PASS

Test Graphs





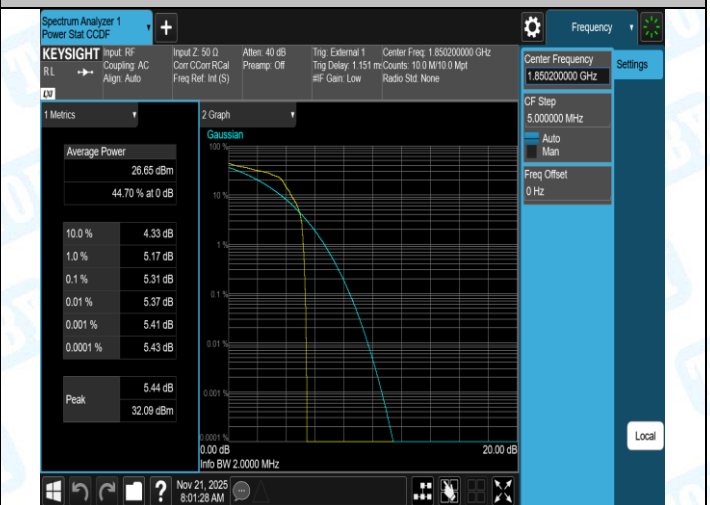
GPRS1900-810-0-PASS



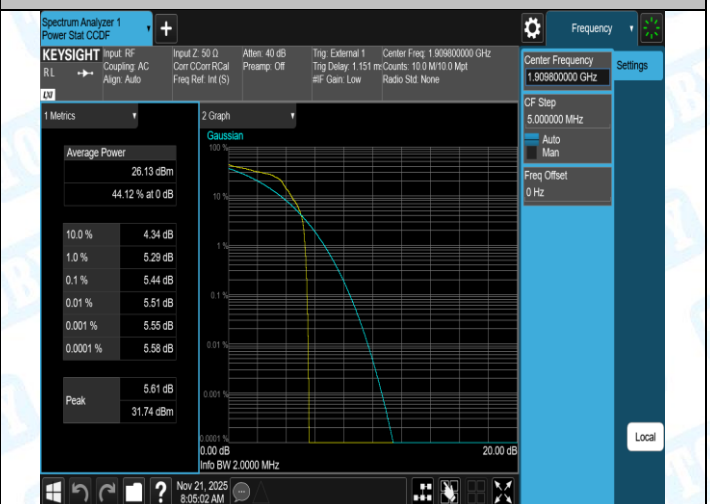
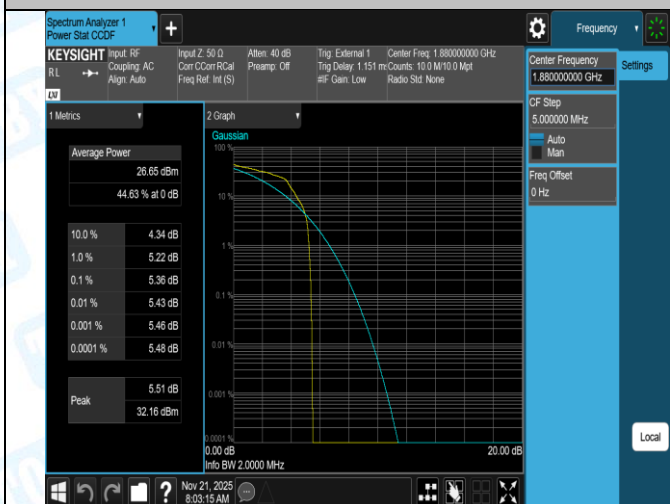
EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS



EGPRS1900-810-2-PASS

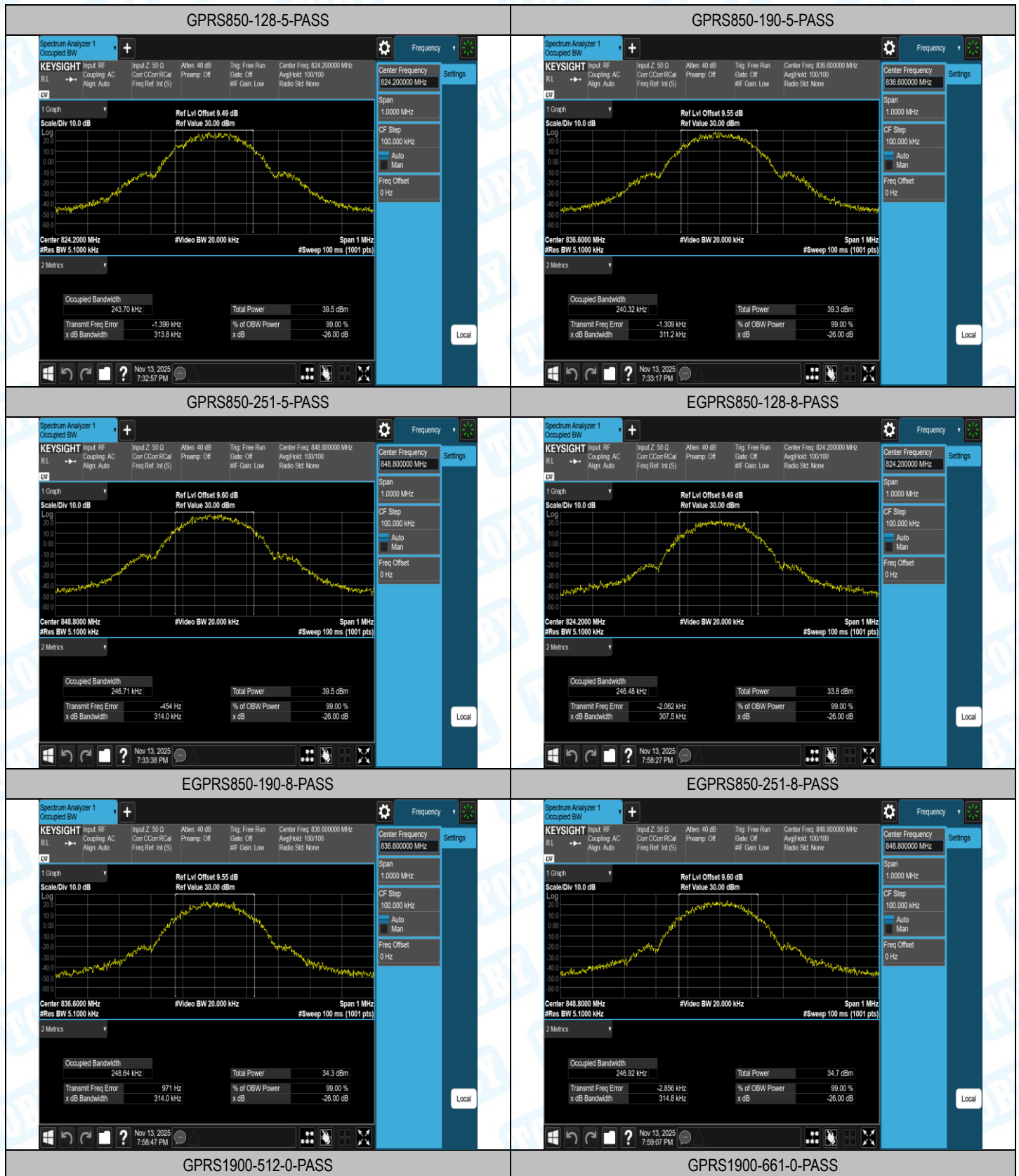


3: 26dB Bandwidth and Occupied Bandwidth

Test Result

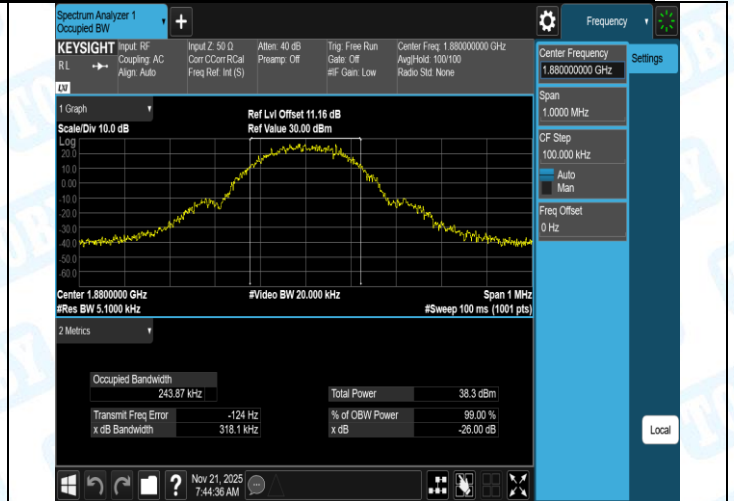
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.24370	0.3138	---	PASS
GPRS850	190	0.24032	0.3112	---	PASS
GPRS850	251	0.24671	0.3140	---	PASS
EGPRS850	128	0.24648	0.3075	---	PASS
EGPRS850	190	0.24864	0.3140	---	PASS
EGPRS850	251	0.24692	0.3148	---	PASS
GPRS1900	512	0.24517	0.3122	---	PASS
GPRS1900	661	0.24387	0.3181	---	PASS
GPRS1900	810	0.24493	0.3142	---	PASS
EGPRS1900	512	0.24924	0.3059	---	PASS
EGPRS1900	661	0.24907	0.3117	---	PASS
EGPRS1900	810	0.24748	0.3224	---	PASS

Test Graphs

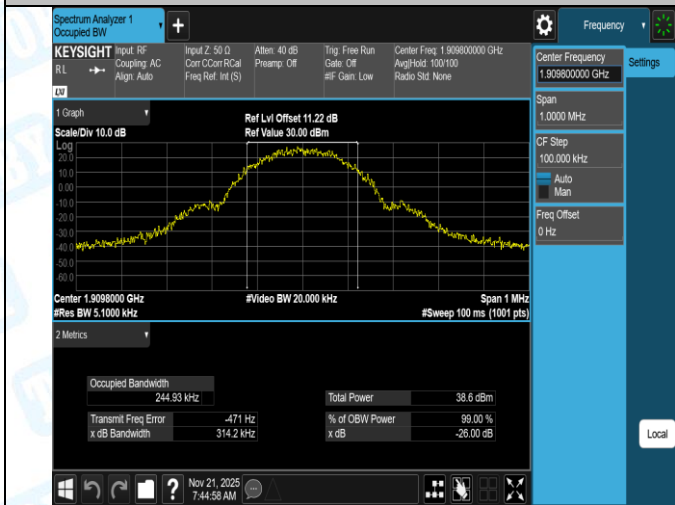




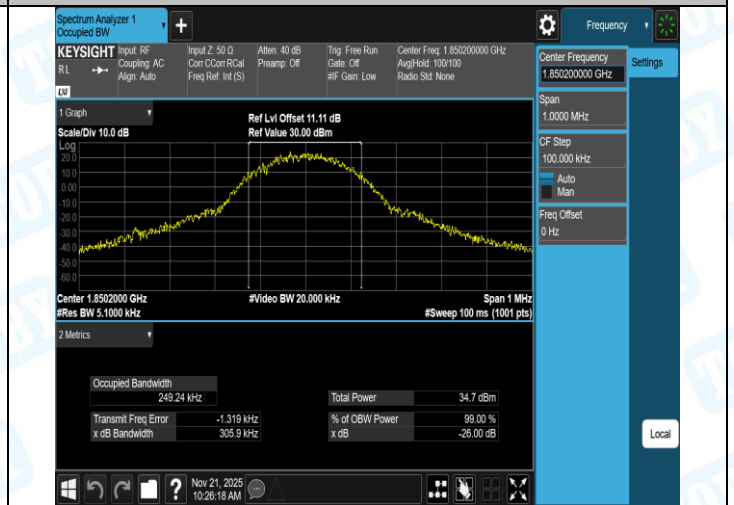
GPRS1900-810-0-PASS



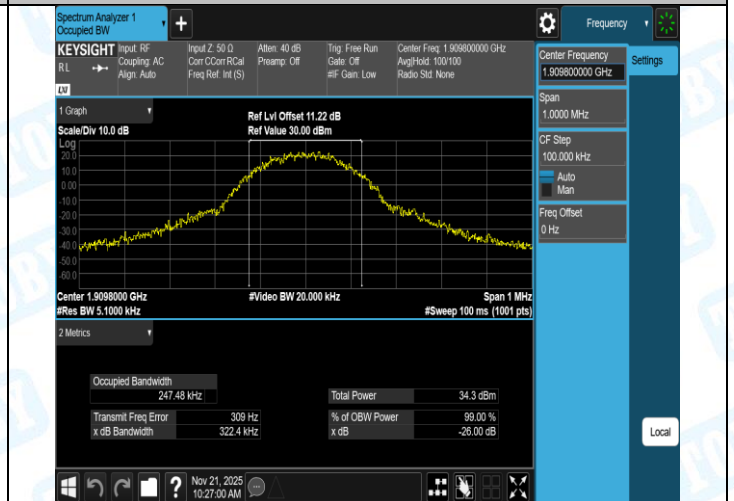
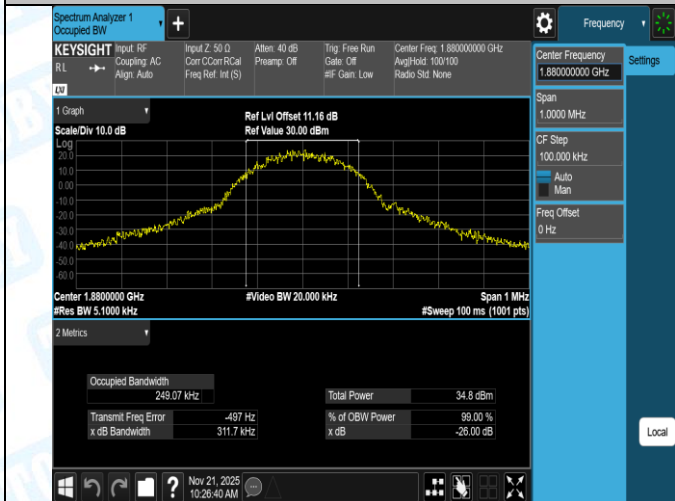
EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS



EGPRS1900-810-2-PASS



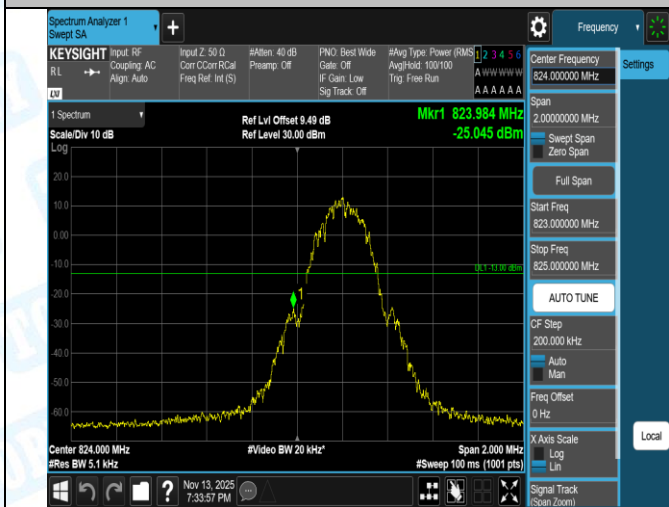
4: Band Edge

Test Result

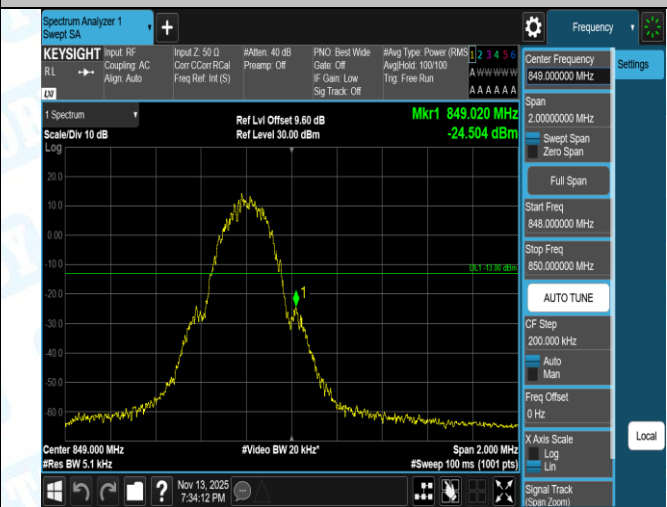
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	823.98	-25.04	-13	PASS
GPRS850	251	849.02	-24.50	-13	PASS
EGPRS850	128	823.99	-34.22	-13	PASS
EGPRS850	251	849.00	-34.74	-13	PASS
GPRS1900	512	1849.97	-26.11	-13	PASS
GPRS1900	810	1910.02	-24.75	-13	PASS
EGPRS1900	512	1850.00	-29.64	-13	PASS
EGPRS1900	810	1910.00	-30.50	-13	PASS

Test Graphs

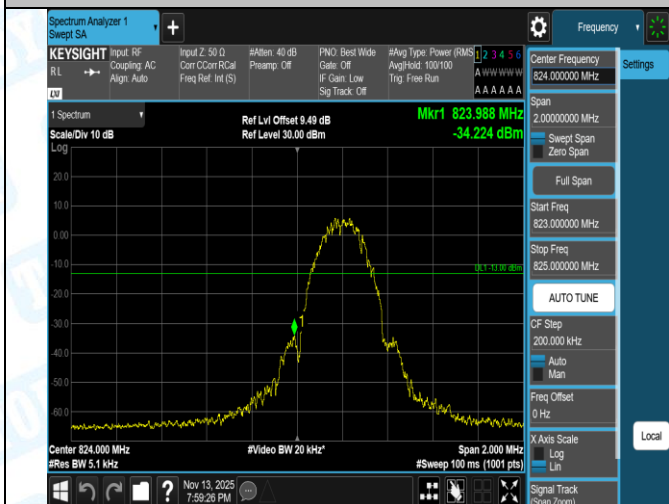
GPRS850-128-5-PASS



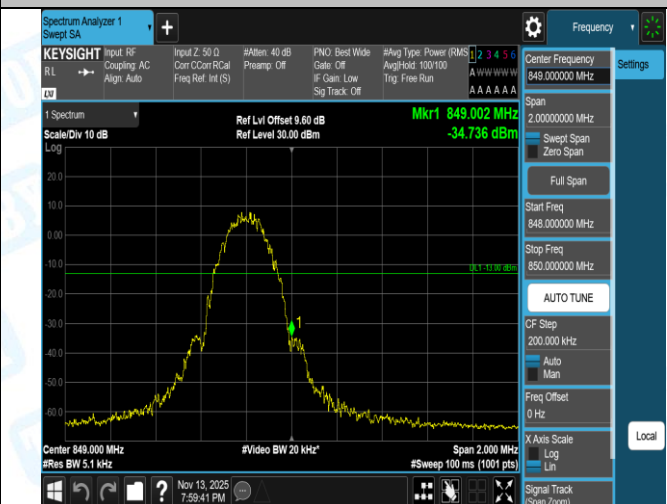
GPRS850-251-5-PASS



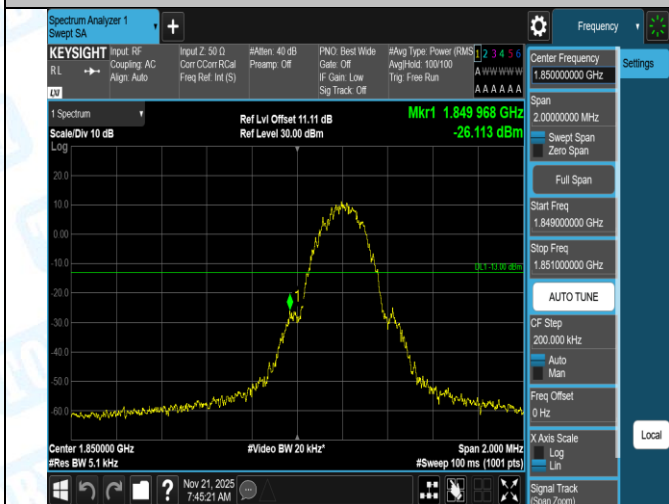
EGPRS850-128-8-PASS



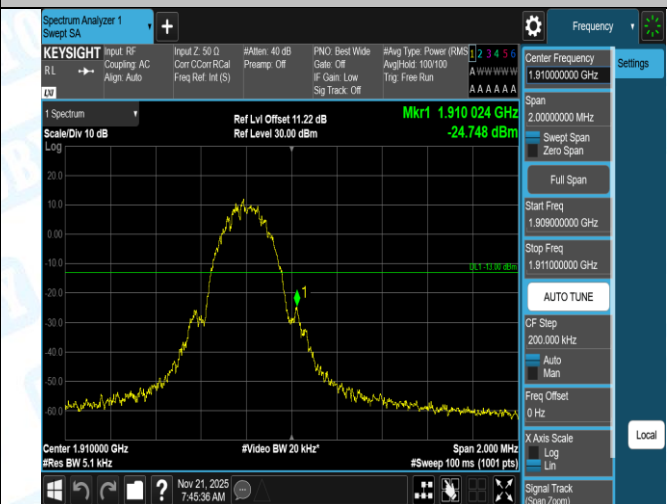
EGPRS850-251-8-PASS



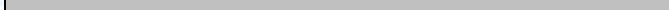
GPRS1900-512-0-PASS



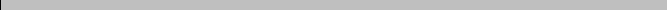
GPRS1900-810-0-PASS

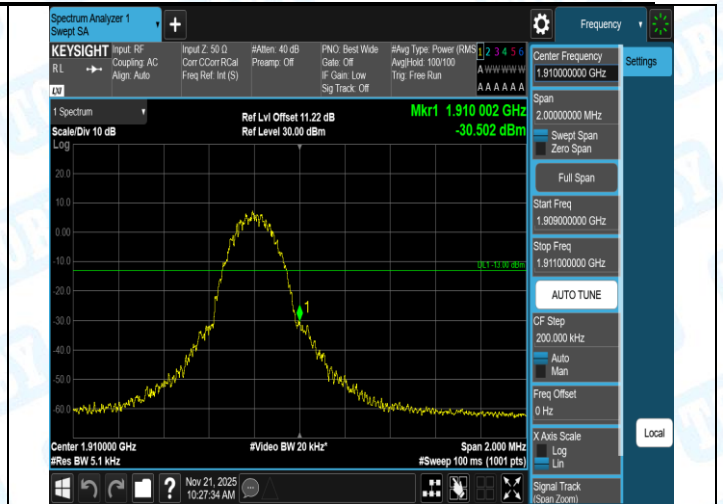
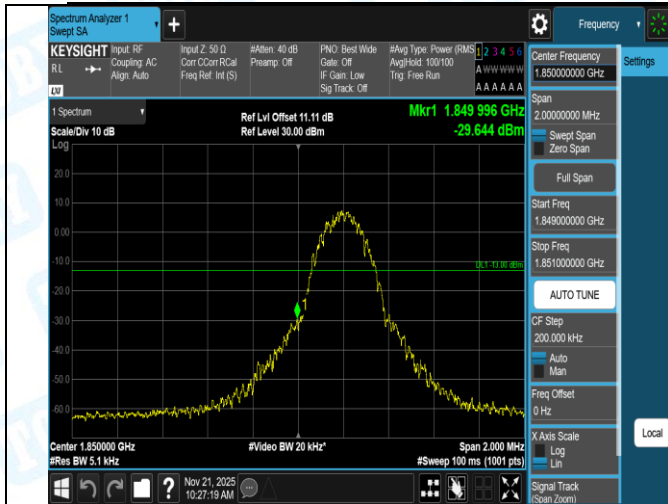


EGPRS1900-512-2-PASS



EGPRS1900-810-2-PASS





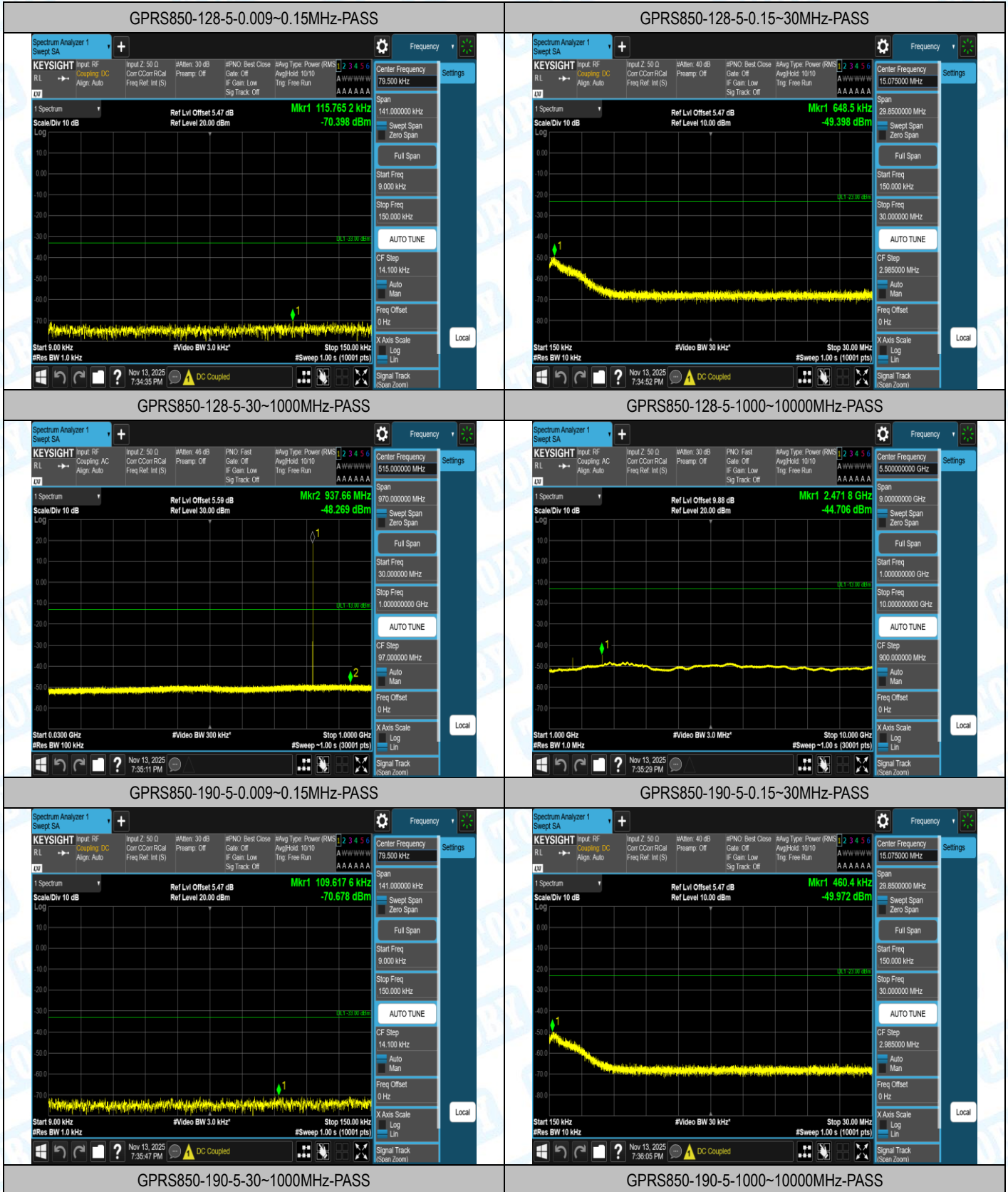
5: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	0.009~0.15MHz	0.12	-70.4	-33	PASS
GPRS850	128	0.15~30MHz	0.65	-49.4	-23	PASS
GPRS850	128	30~1000MHz	937.66	-48.27	-13	PASS
GPRS850	128	1000~10000MHz	2471.8	-44.71	-13	PASS
GPRS850	190	0.009~0.15MHz	0.11	-70.68	-33	PASS
GPRS850	190	0.15~30MHz	0.46	-49.97	-23	PASS
GPRS850	190	30~1000MHz	937.5	-48.48	-13	PASS
GPRS850	190	1000~10000MHz	2509.9	-36	-13	PASS
GPRS850	251	0.009~0.15MHz	0.13	-69.85	-33	PASS
GPRS850	251	0.15~30MHz	0.52	-49.08	-23	PASS
GPRS850	251	30~1000MHz	471.19	-48.28	-13	PASS
GPRS850	251	1000~10000MHz	2546.5	-39.33	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.12	-69.88	-33	PASS
EGPRS850	128	0.15~30MHz	0.53	-49.53	-23	PASS
EGPRS850	128	30~1000MHz	367.98	-48.64	-13	PASS
EGPRS850	128	1000~10000MHz	1648	-47.63	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.13	-70.32	-33	PASS
EGPRS850	190	0.15~30MHz	0.71	-49.92	-23	PASS
EGPRS850	190	30~1000MHz	978.85	-48.67	-13	PASS
EGPRS850	190	1000~10000MHz	2509.9	-47.54	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.07	-70.27	-33	PASS
EGPRS850	251	0.15~30MHz	0.71	-49.33	-23	PASS
EGPRS850	251	30~1000MHz	955.87	-48.44	-13	PASS
EGPRS850	251	1000~10000MHz	2546.5	-46.73	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.11	-70.13	-43	PASS
GPRS1900	512	0.15~30MHz	0.48	-49.92	-33	PASS
GPRS1900	512	30~1000MHz	909.95	-45.75	-13	PASS
GPRS1900	512	1000~3000MHz	2683.27	-31.8	-13	PASS
GPRS1900	512	3000~18000MHz	16442.5	-40.39	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.13	-70.38	-43	PASS
GPRS1900	661	0.15~30MHz	0.53	-49.59	-33	PASS
GPRS1900	661	30~1000MHz	899.96	-45.77	-13	PASS
GPRS1900	661	1000~3000MHz	2677.67	-31.83	-13	PASS
GPRS1900	661	3000~18000MHz	16428.5	-40.41	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.1	-70.68	-43	PASS
GPRS1900	810	0.15~30MHz	0.73	-50.07	-33	PASS
GPRS1900	810	30~1000MHz	878.23	-45.72	-13	PASS
GPRS1900	810	1000~3000MHz	2691.2	-31.72	-13	PASS
GPRS1900	810	3000~18000MHz	16362.5	-40.35	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.12	-70.52	-43	PASS

EGPRS1900	512	0.15~30MHz	0.47	-48.76	-33	PASS
EGPRS1900	512	30~1000MHz	903.13	-45.45	-13	PASS
EGPRS1900	512	1000~3000MHz	2683.67	-31.95	-13	PASS
EGPRS1900	512	3000~18000MHz	16473.5	-40.47	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.09	-70.05	-43	PASS
EGPRS1900	661	0.15~30MHz	0.63	-49.38	-33	PASS
EGPRS1900	661	30~1000MHz	895.37	-45.54	-13	PASS
EGPRS1900	661	1000~3000MHz	2679.53	-31.84	-13	PASS
EGPRS1900	661	3000~18000MHz	16425.5	-40.45	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.13	-69.99	-43	PASS
EGPRS1900	810	0.15~30MHz	0.65	-48.93	-33	PASS
EGPRS1900	810	30~1000MHz	879.69	-45.92	-13	PASS
EGPRS1900	810	1000~3000MHz	2686.73	-31.99	-13	PASS
EGPRS1900	810	3000~18000MHz	16349	-40.55	-13	PASS

Test Graphs

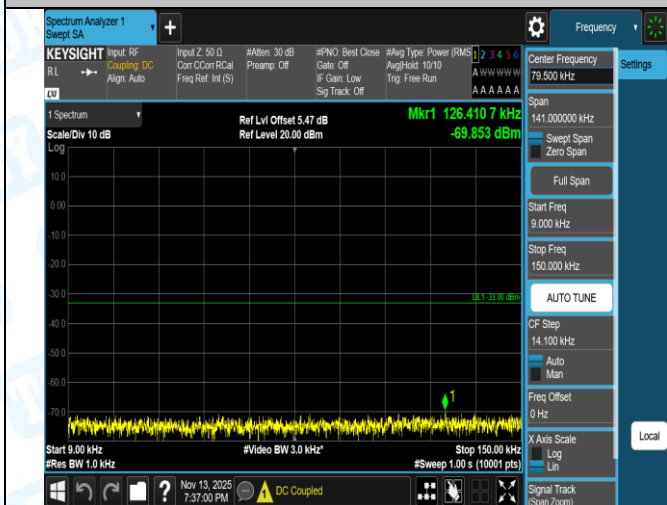




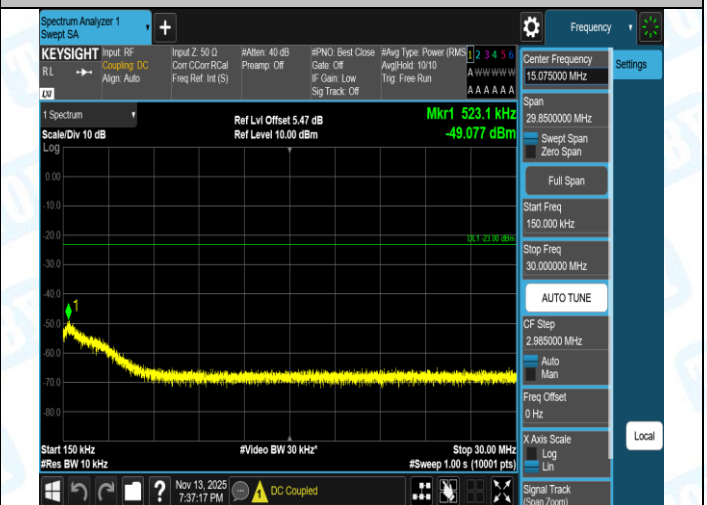
GPRS850-251-5-0.009~0.15MHz-PASS



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



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



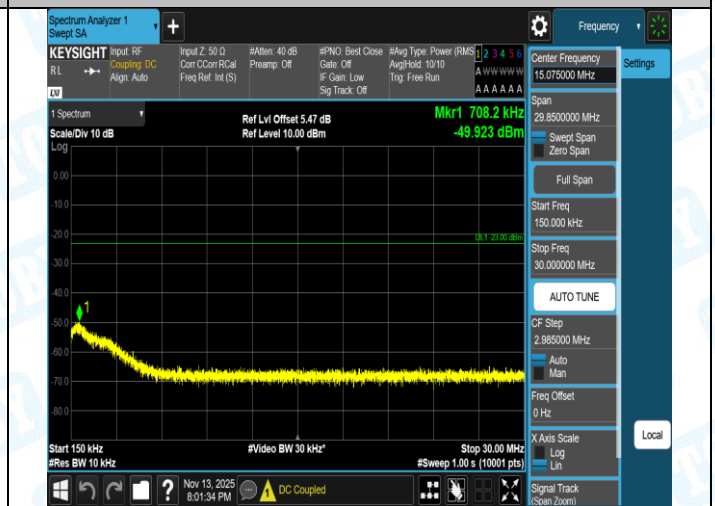
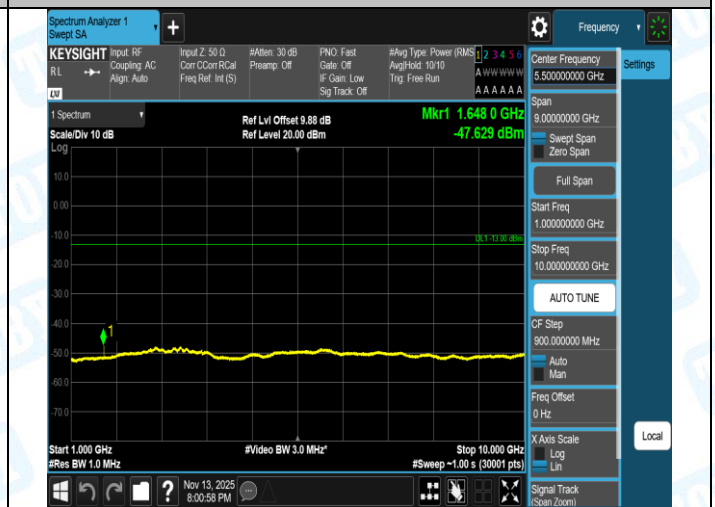
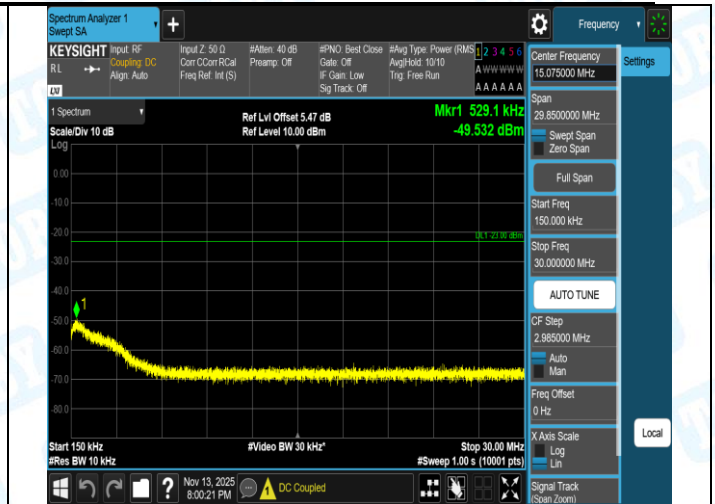
GPRS850-251-5-1000~10000MHz-PASS

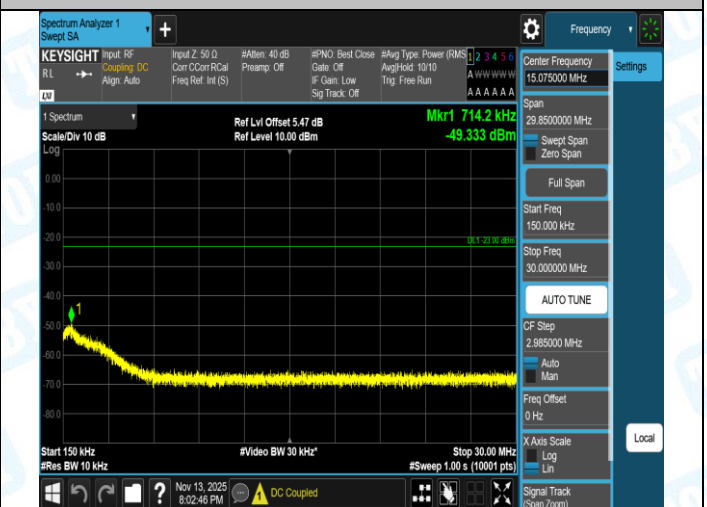
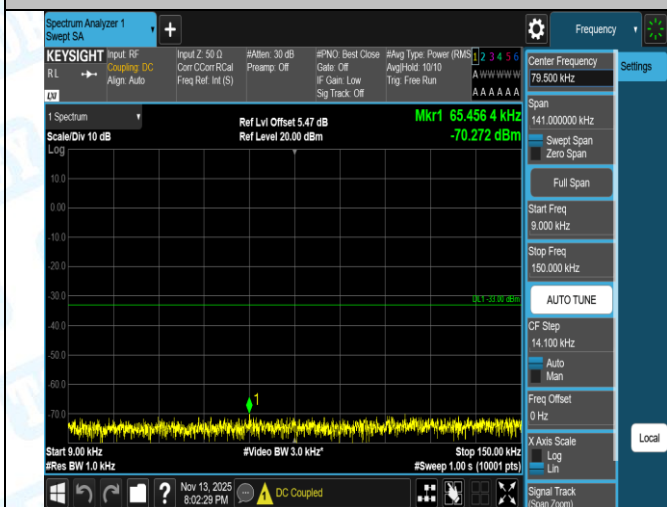
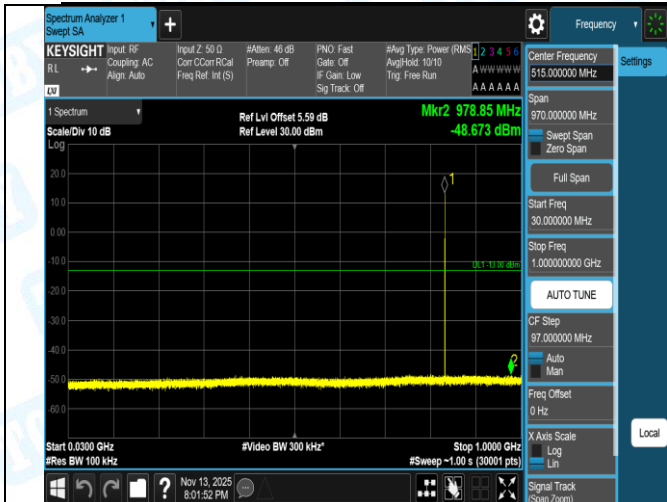


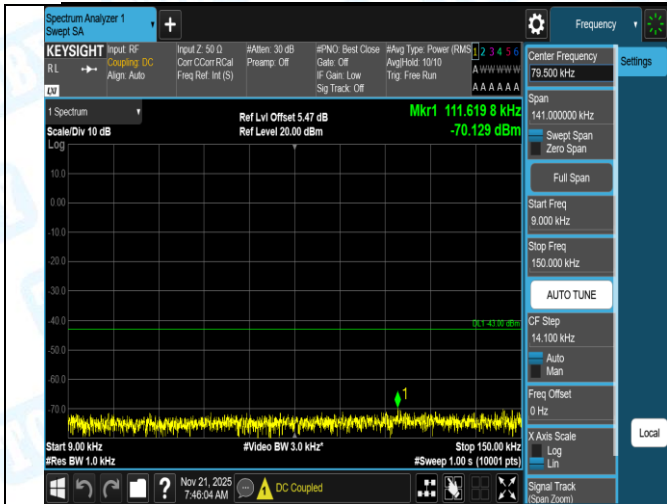
EGPRS850-128-8-0.009~0.15MHz-PASS



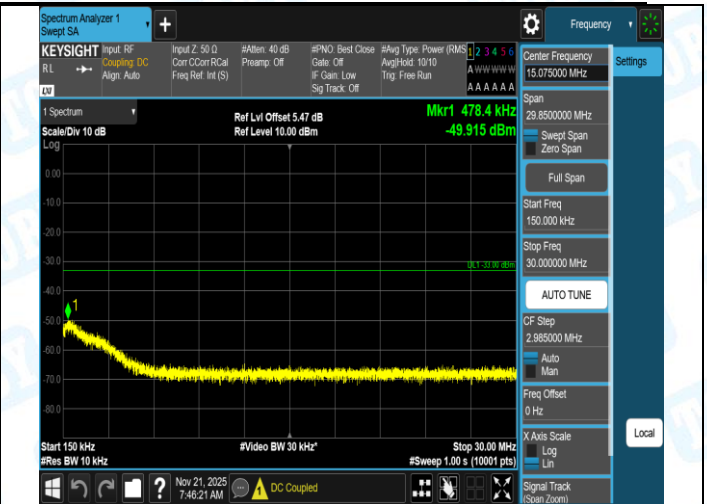
EGPRS850-128-8-0.15~30MHz-PASS







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



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



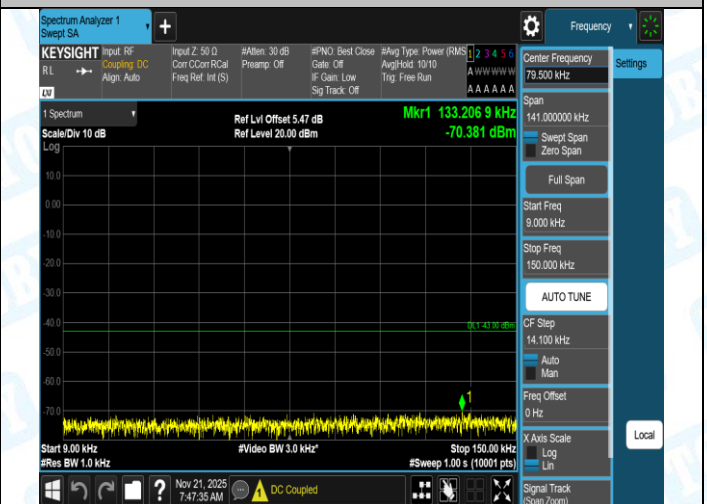
GPRS1900-512-0-3000~18000MHz-PASS



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



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



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