

Conducted Output Power

Test Result and Data(GSM)

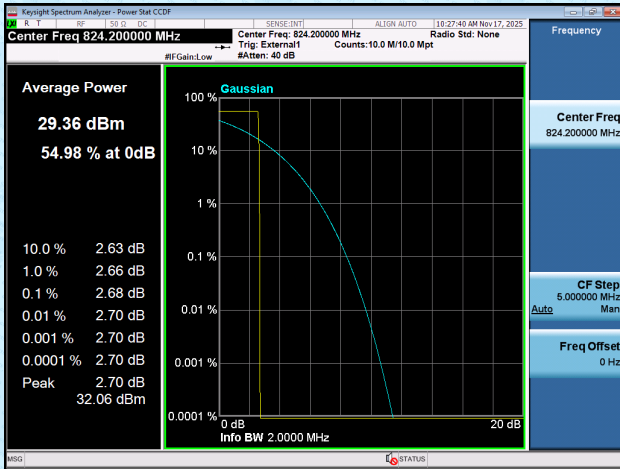
GSM 850							
EUT Mode		Average power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
		128	190	251			
		824.2MHz	836.6MHz	848.8MHz			
GSM	Voice	32.52	32.81	32.72	-3.60	27.06	38.45
GPRS	Slot 1	32.50	32.77	32.66			
	Slot 2	30.15	30.10	30.21			
	Slot 3	28.64	28.33	28.29			
	Slot 4	27.28	27.35	27.31			
EGPRS	Slot 1	26.52	26.68	26.54		20.93	
	Slot 2	24.10	24.11	23.71			
	Slot 3	22.47	22.34	22.09			
	Slot 4	21.56	21.27	21.15			
PCS 1900							
EUT Mode		Average power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
		512	661	810			
		1850.2MHz	1880.0MHz	1909.8MHz			
GSM	Voice	29.29	29.31	29.35	-0.65	28.70	38.45
GPRS	Slot 1	29.28	29.29	29.31			
	Slot 2	26.54	26.77	26.26			
	Slot 3	24.74	24.96	24.54			
	Slot 4	23.82	23.95	23.56			
EGPRS	Slot 1	24.96	25.32	24.56		24.67	
	Slot 2	22.48	22.85	22.52			
	Slot 3	21.11	21.43	21.23			
	Slot 4	20.38	20.65	20.42			

Peak-to-Average Ratio(CCDF)**Test Result and Data**

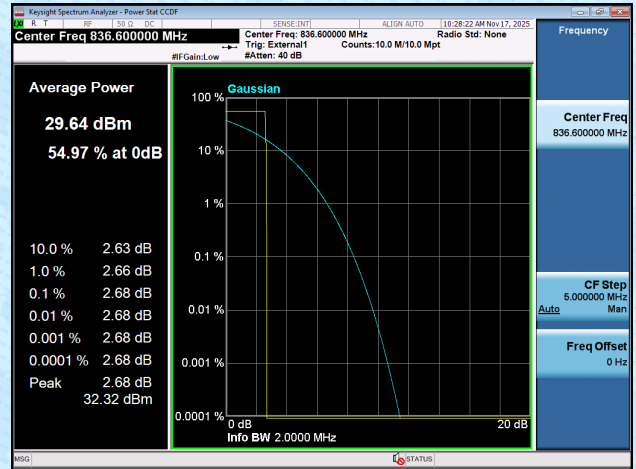
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	2.68	13	PASS
GSM850	190	2.68	13	PASS
GSM850	251	2.79	13	PASS
EGPRS850	128	5.71	13	PASS
EGPRS850	190	5.71	13	PASS
EGPRS850	251	5.74	13	PASS
GSM1900	512	2.77	13	PASS
GSM1900	661	2.76	13	PASS
GSM1900	810	2.74	13	PASS
EGPRS1900	512	5.71	13	PASS
EGPRS1900	661	5.70	13	PASS
EGPRS1900	810	5.73	13	PASS

Test Graphs

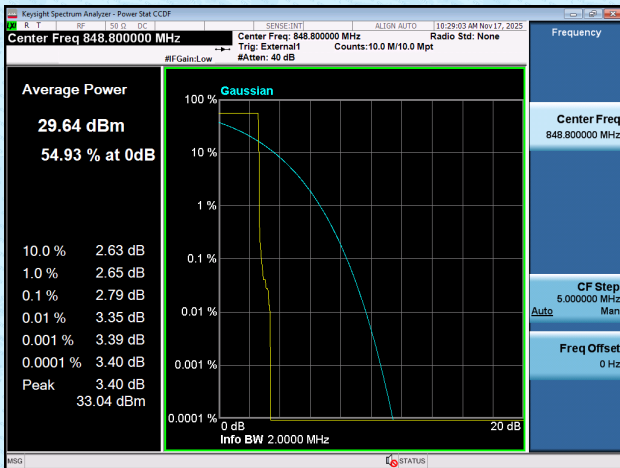
GSM850-128-5-PASS



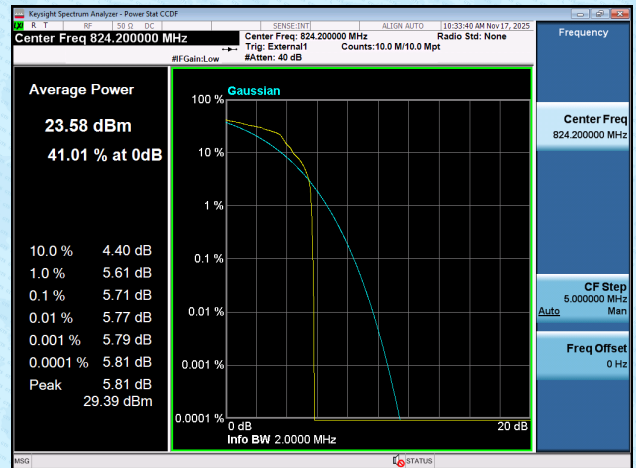
GSM850-190-5-PASS



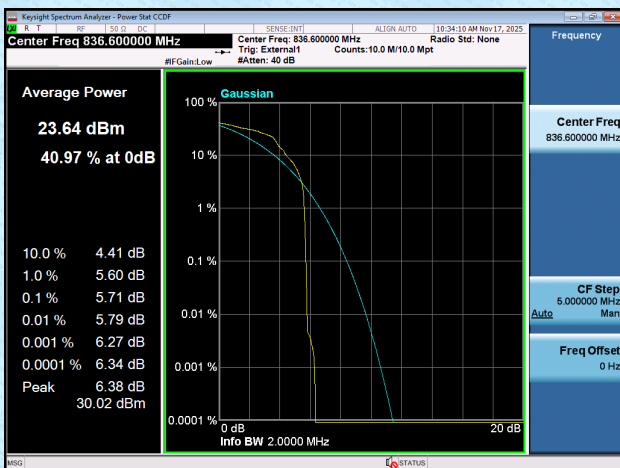
GSM850-251-5-PASS



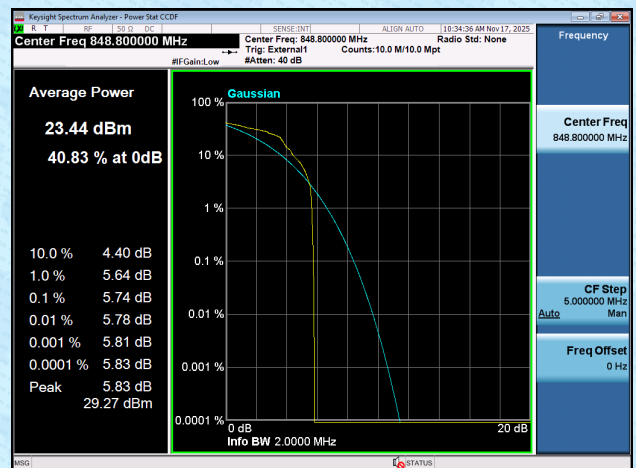
EGPRS850-128-8-PASS



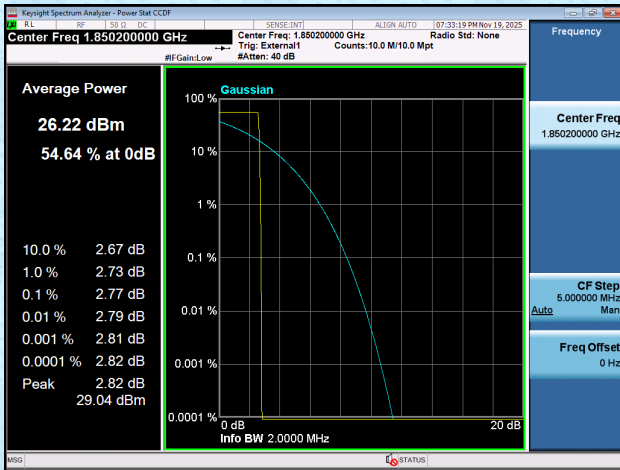
EGPRS850-190-8-PASS



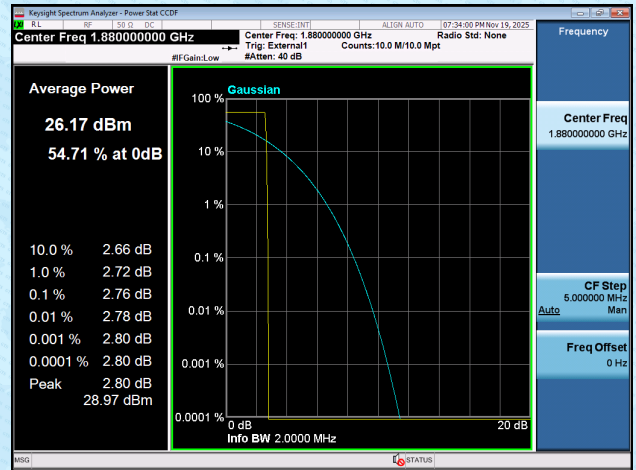
EGPRS850-251-8-PASS



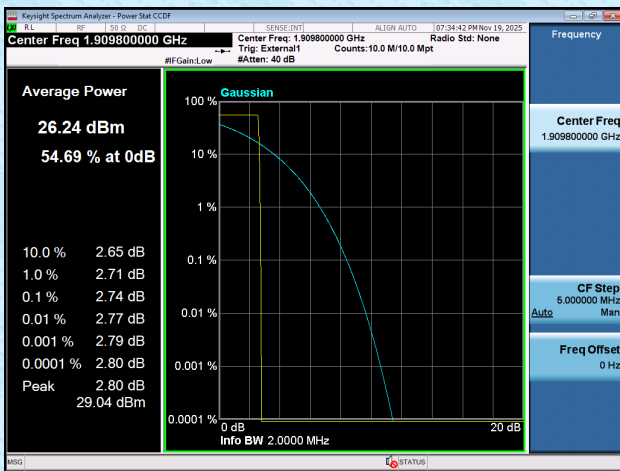
GSM1900-512-0-PASS



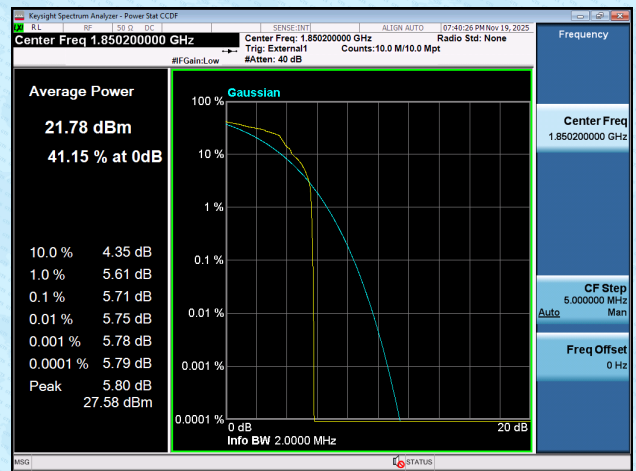
GSM1900-661-0-PASS



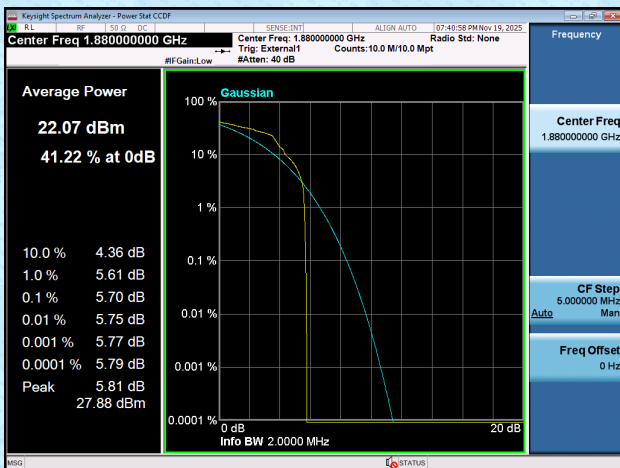
GSM1900-810-0-PASS



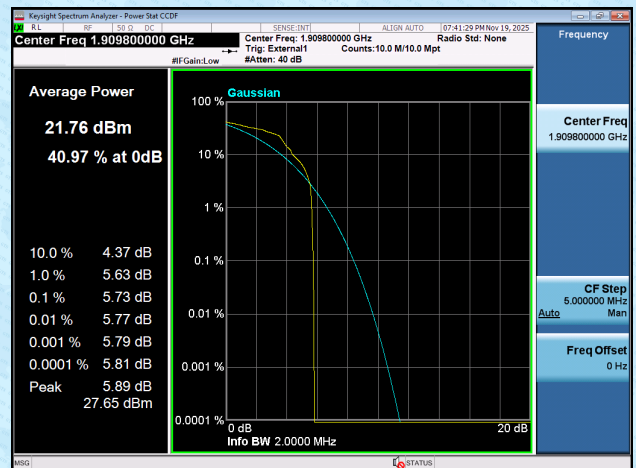
EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS



EGPRS1900-810-2-PASS

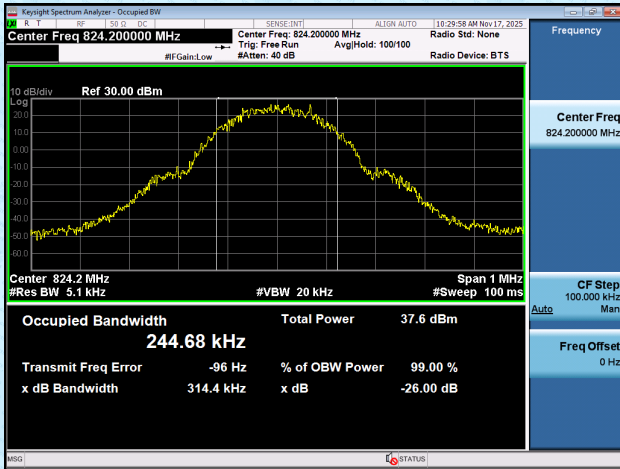


26dB Emission Bandwidth and 99% Occupied Bandwidth**Test Result and Data(GSM)**

Band	Channel	26dB EBW(MHz)	99% OBW(MHz)	Limit(MHz)	Verdict
GSM850	128	0.3144	0.24468	---	PASS
GSM850	190	0.3153	0.24485	---	PASS
GSM850	251	0.3142	0.24434	---	PASS
EGPRS850	128	0.3000	0.24248	---	PASS
EGPRS850	190	0.3054	0.24115	---	PASS
EGPRS850	251	0.3094	0.24355	---	PASS
GSM1900	512	0.3110	0.24642	---	PASS
GSM1900	661	0.3099	0.24543	---	PASS
GSM1900	810	0.3106	0.24454	---	PASS
EGPRS1900	512	0.3043	0.24819	---	PASS
EGPRS1900	661	0.3045	0.24529	---	PASS
EGPRS1900	810	0.3047	0.24983	---	PASS

Test Graphs

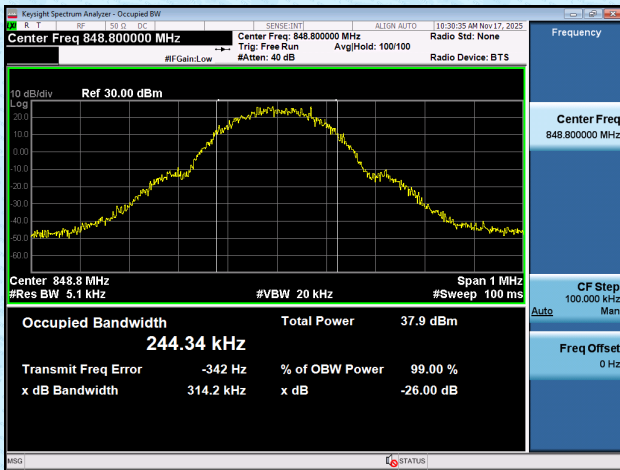
GSM850-128-5-PASS



GSM850-190-5-PASS



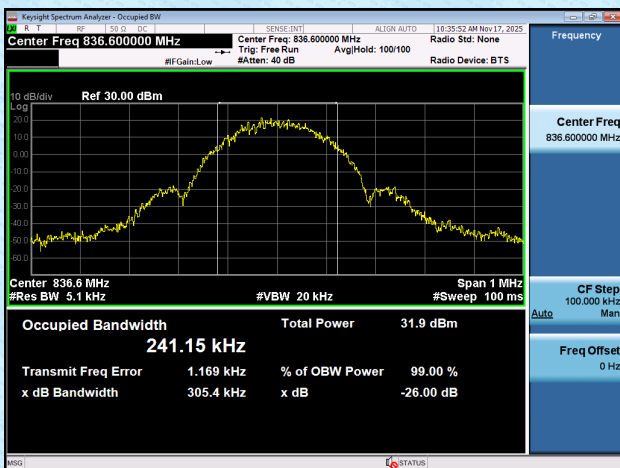
GSM850-251-5-PASS



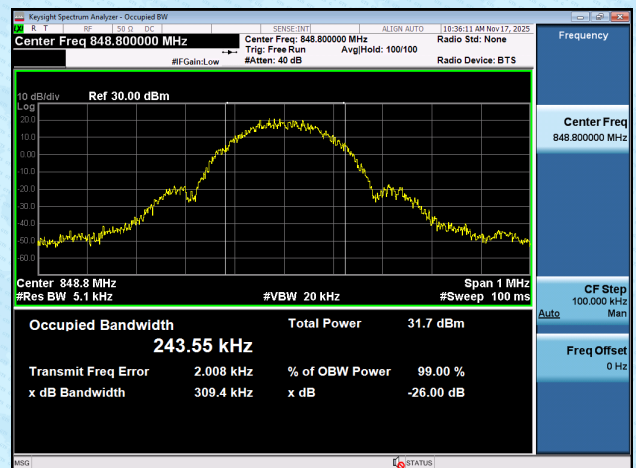
EGPRS850-128-8-PASS



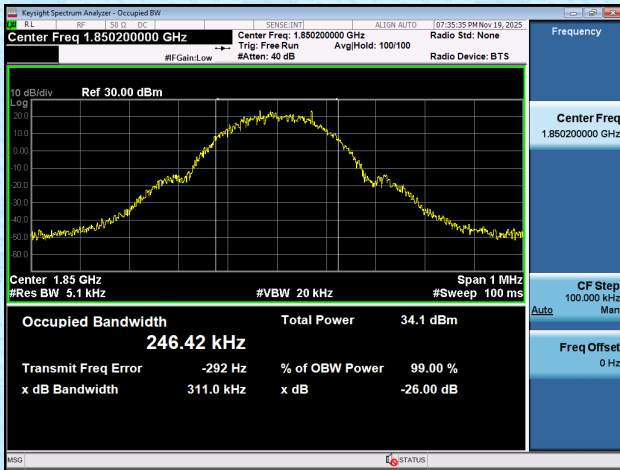
EGPRS850-190-8-PASS



EGPRS850-251-8-PASS



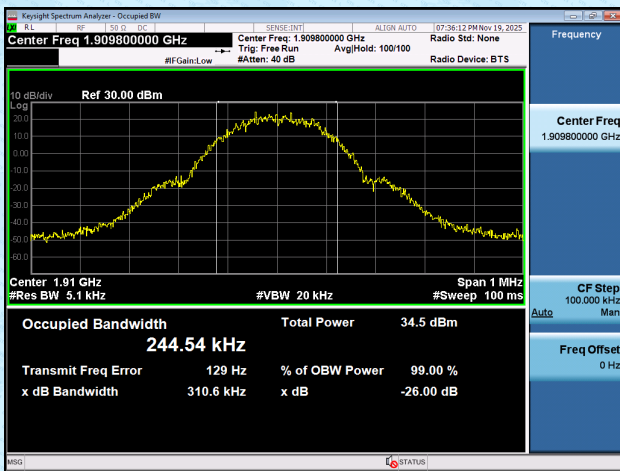
GSM1900-512-0-PASS



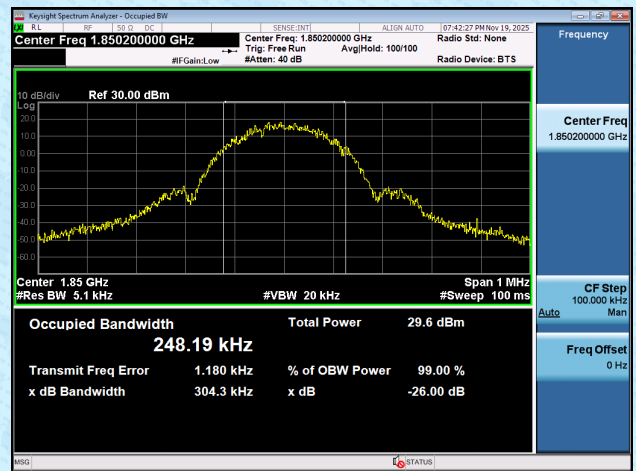
GSM1900-661-0-PASS



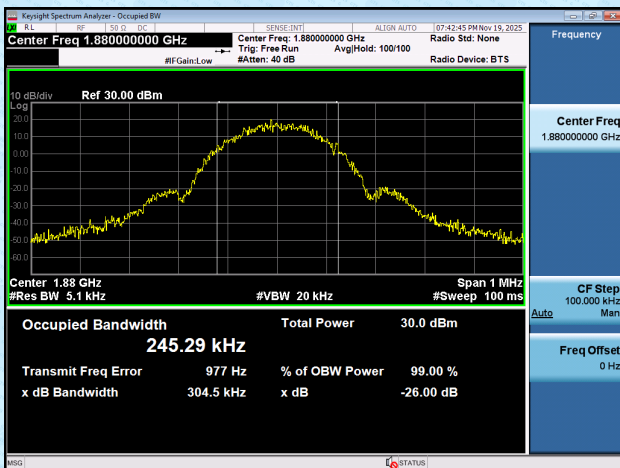
GSM1900-810-0-PASS



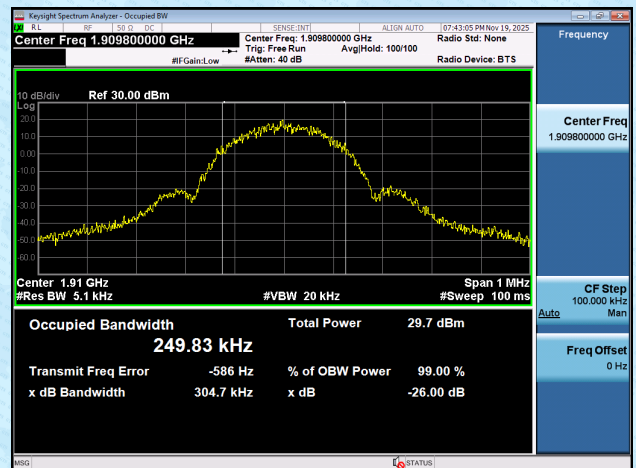
EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS



EGPRS1900-810-2-PASS

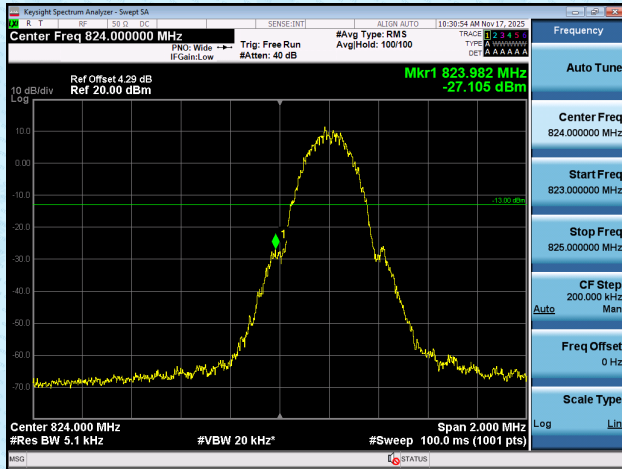


Conducted Band Edge**Test Result and Data(GSM)**

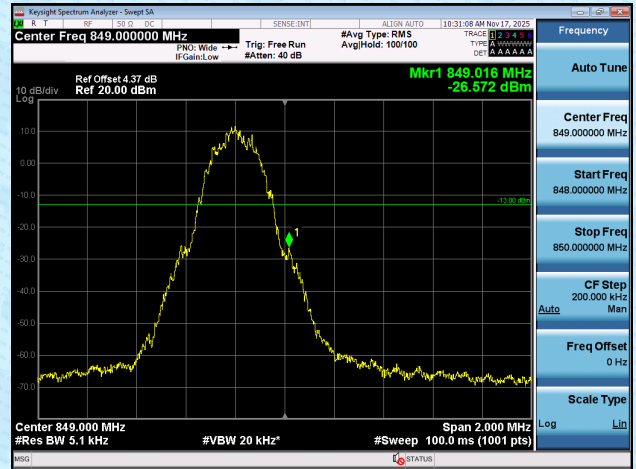
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-27.10	-13	PASS
GSM850	251	849.02	-26.57	-13	PASS
EGPRS850	128	823.98	-32.33	-13	PASS
EGPRS850	251	849.01	-34.23	-13	PASS
GSM1900	512	1849.97	-31.00	-13	PASS
GSM1900	810	1910.02	-27.41	-13	PASS
EGPRS1900	512	1849.98	-34.51	-13	PASS
EGPRS1900	810	1910.02	-35.37	-13	PASS

Test Graphs(GSM)

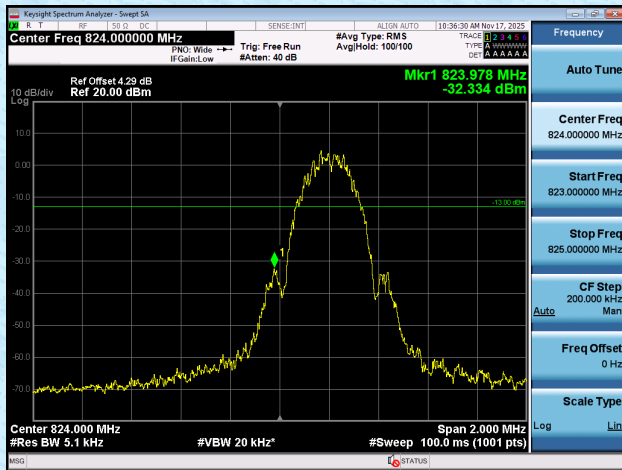
GSM850-128-5-PASS



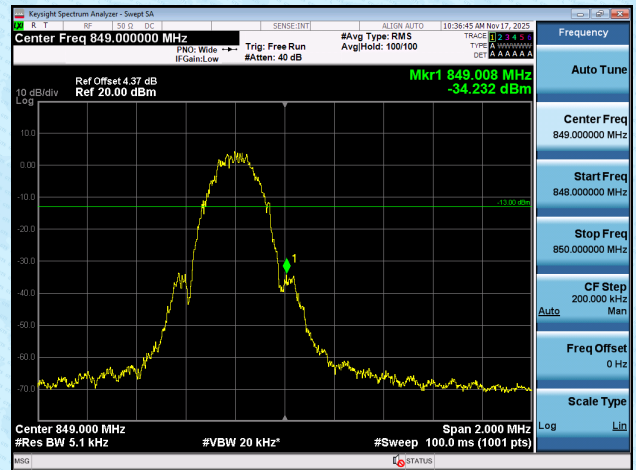
GSM850-251-5-PASS



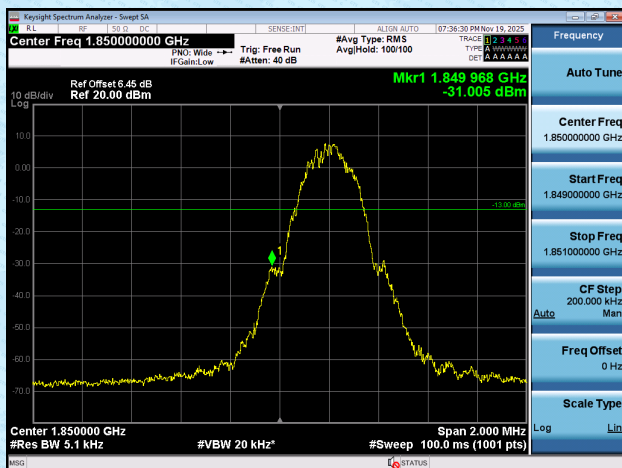
EGPRS850-128-8-PASS



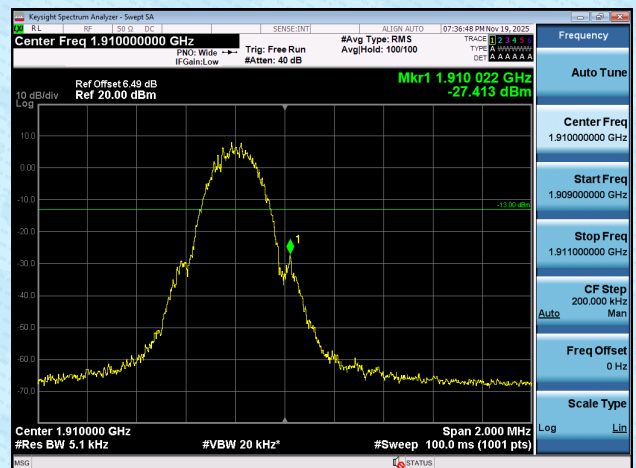
EGPRS850-251-8-PASS

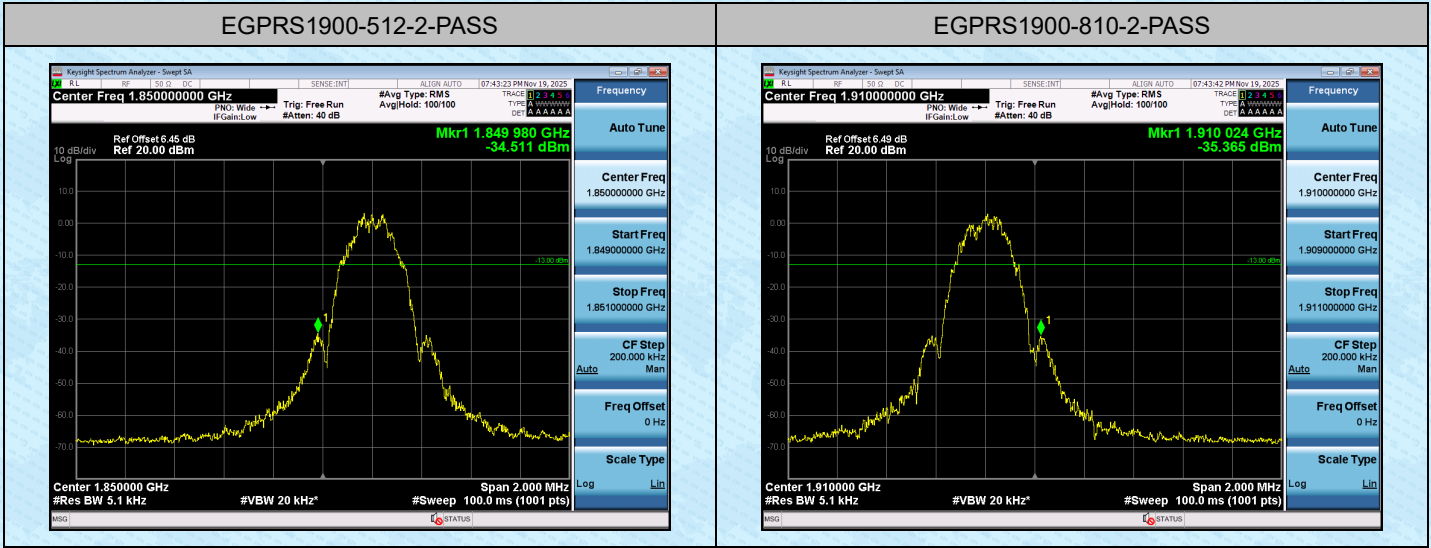


GSM1900-512-0-PASS



GSM1900-810-0-PASS



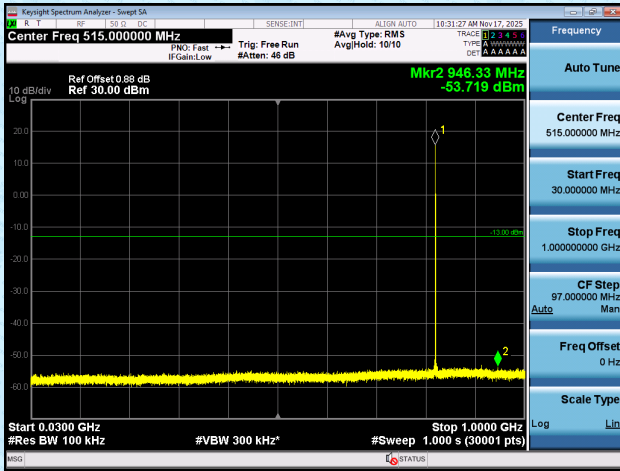


Conducted Spurious Emission**Test Result and Data(GSM)**

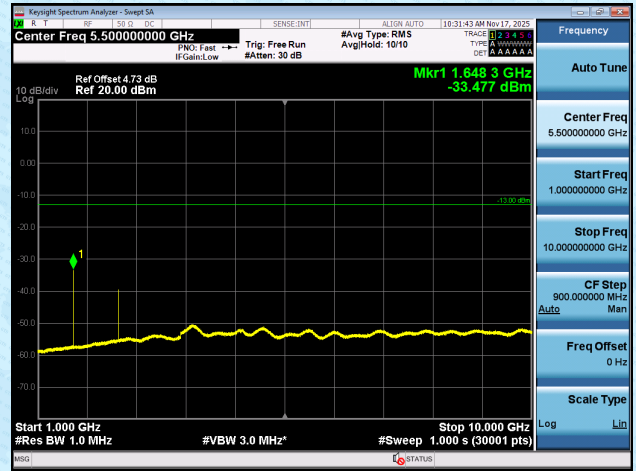
Band	Channel	Frequency Range(MHz)	Frequency (dBm)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	30~1000MHz	946.33	-53.72	-13	PASS
GSM850	128	1000~10000MHz	1648.3	-33.48	-13	PASS
GSM850	190	30~1000MHz	946.13	-54.22	-13	PASS
GSM850	190	1000~10000MHz	2509.9	-43.39	-13	PASS
GSM850	251	30~1000MHz	990.07	-54.28	-13	PASS
GSM850	251	1000~10000MHz	1698.1	-38.53	-13	PASS
EGPRS850	128	30~1000MHz	926.93	-53.78	-13	PASS
EGPRS850	128	1000~10000MHz	1648.3	-47.06	-13	PASS
EGPRS850	190	30~1000MHz	976.4	-54.09	-13	PASS
EGPRS850	190	1000~10000MHz	3834.4	-50.35	-13	PASS
EGPRS850	251	30~1000MHz	744.79	-54.16	-13	PASS
EGPRS850	251	1000~10000MHz	1697.8	-47.42	-13	PASS
GSM1900	512	30~1000MHz	858.9	-50.68	-13	PASS
GSM1900	512	1000~3000MHz	2985.4	-38.14	-13	PASS
GSM1900	512	3000~18000MHz	3830.5	-47.07	-13	PASS
GSM1900	661	30~1000MHz	880.37	-50.56	-13	PASS
GSM1900	661	1000~3000MHz	2982.87	-38.04	-13	PASS
GSM1900	661	3000~18000MHz	3821.5	-46.87	-13	PASS
GSM1900	810	30~1000MHz	892.85	-50.76	-13	PASS
GSM1900	810	1000~3000MHz	2982.93	-38	-13	PASS
GSM1900	810	3000~18000MHz	3854.5	-47.03	-13	PASS
EGPRS1900	512	30~1000MHz	877.84	-50.64	-13	PASS
EGPRS1900	512	1000~3000MHz	2985.47	-37.92	-13	PASS
EGPRS1900	512	3000~18000MHz	3827	-47	-13	PASS
EGPRS1900	661	30~1000MHz	884.67	-50.58	-13	PASS
EGPRS1900	661	1000~3000MHz	2961.73	-38.04	-13	PASS
EGPRS1900	661	3000~18000MHz	3842	-46.93	-13	PASS
EGPRS1900	810	30~1000MHz	872.15	-50.69	-13	PASS
EGPRS1900	810	1000~3000MHz	2975.87	-38.04	-13	PASS
EGPRS1900	810	3000~18000MHz	3854.5	-47.02	-13	PASS

Test Graphs

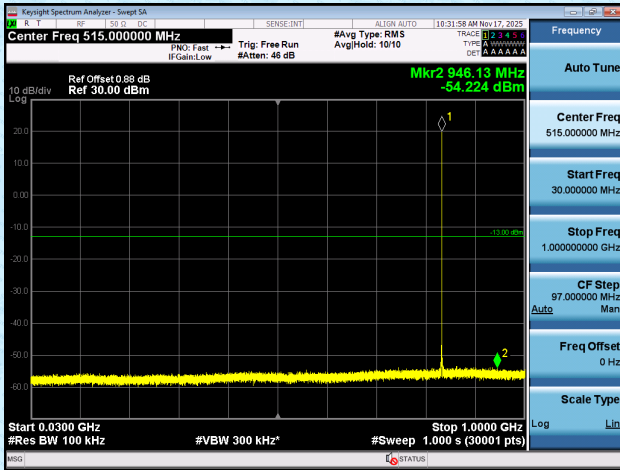
GSM850-128-5-30~1000MHz-PASS



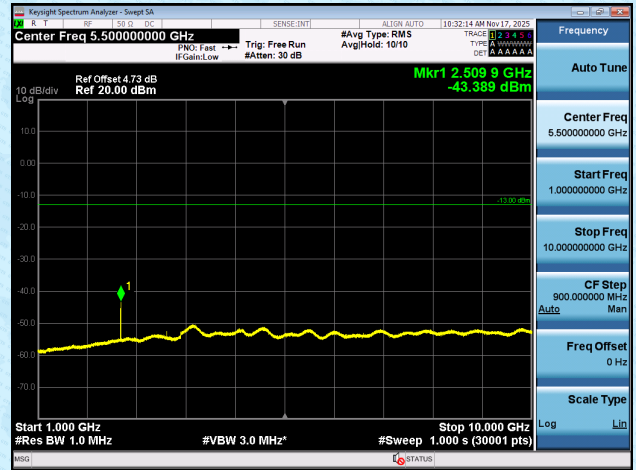
GSM850-128-5-1000~10000MHz-PASS



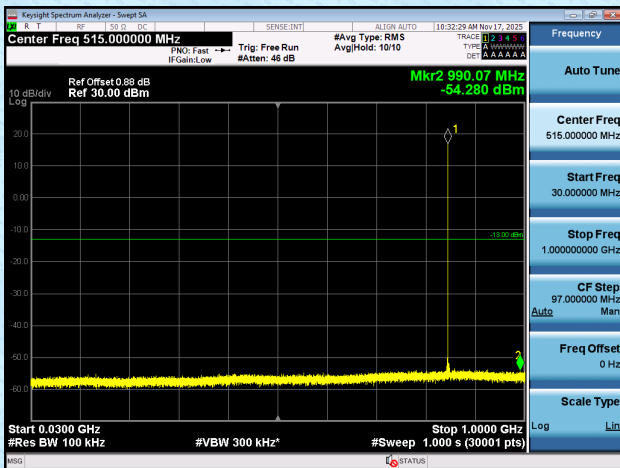
GSM850-190-5-30~1000MHz-PASS



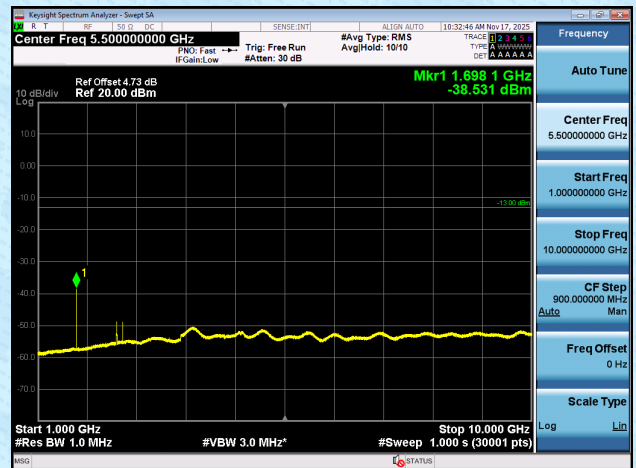
GSM850-190-5-1000~10000MHz-PASS



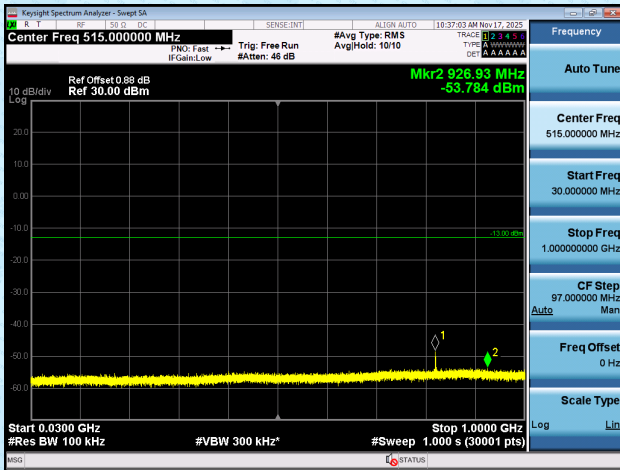
GSM850-251-5-30~1000MHz-PASS



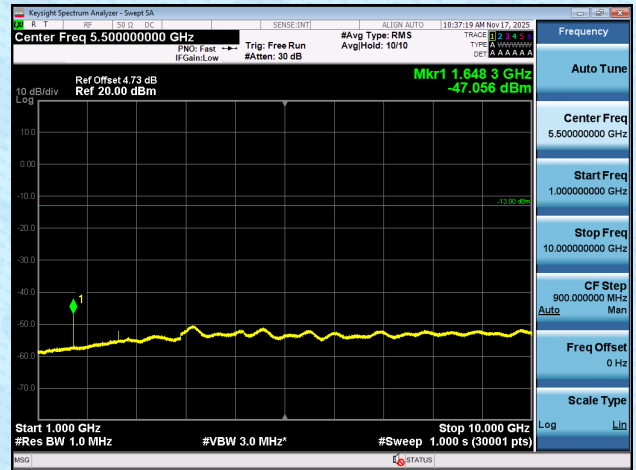
GSM850-251-5-1000~10000MHz-PASS



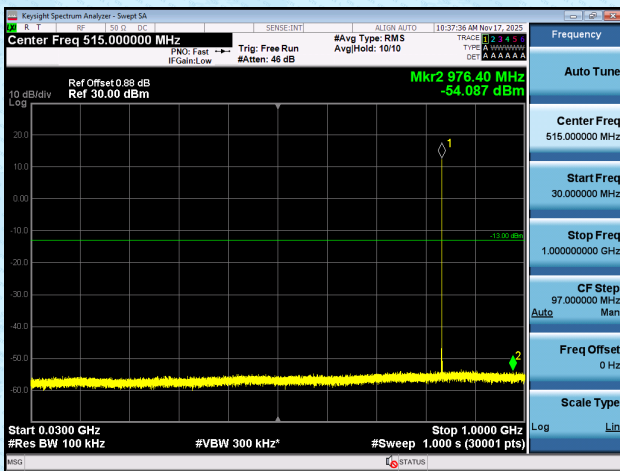
EGPRS850-128-8-30~1000MHz-PASS



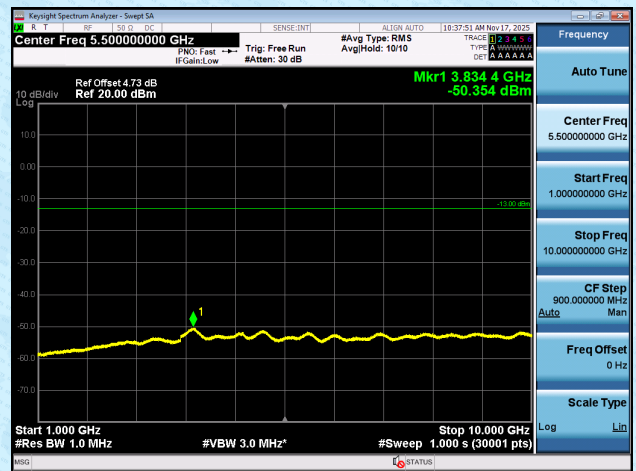
EGPRS850-128-8-1000~10000MHz-PASS



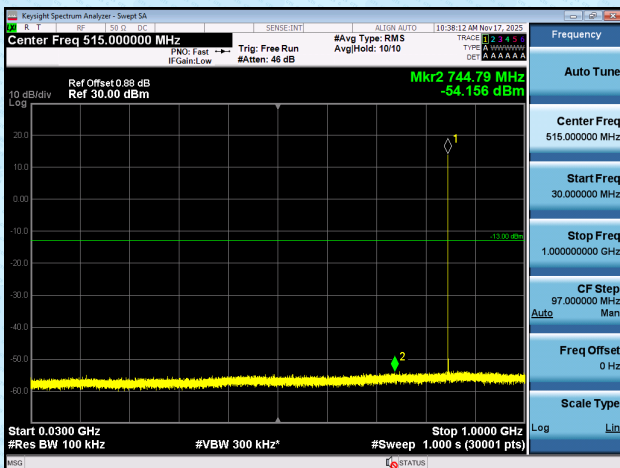
EGPRS850-190-8-30~1000MHz-PASS



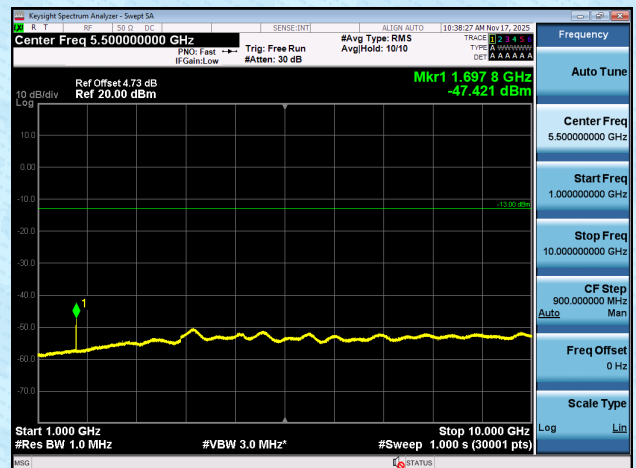
EGPRS850-190-8-1000~10000MHz-PASS



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



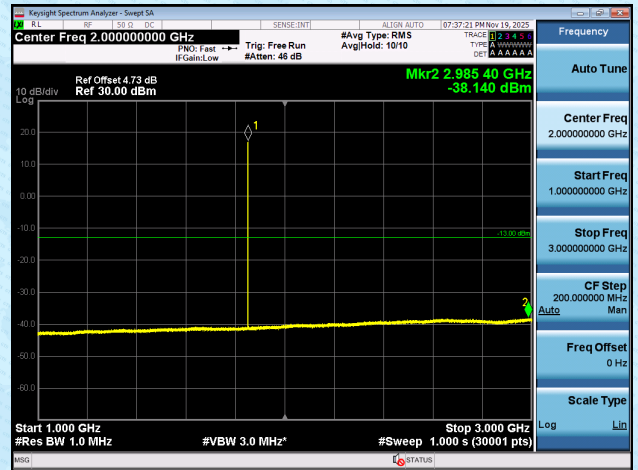
EGPRS850-251-8-1000~10000MHz-PASS



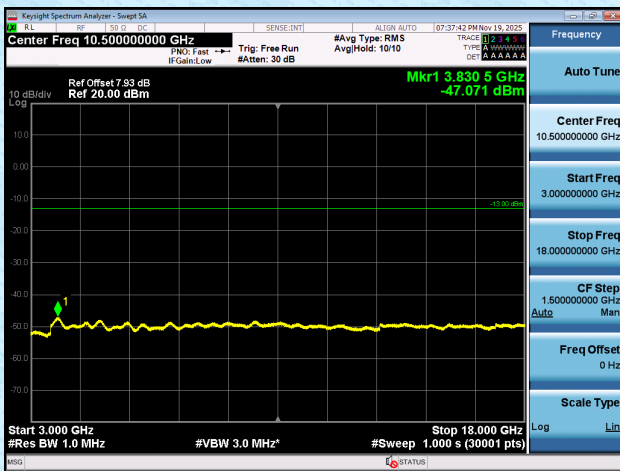
GSM1900-512-0-30~1000MHz-PASS



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



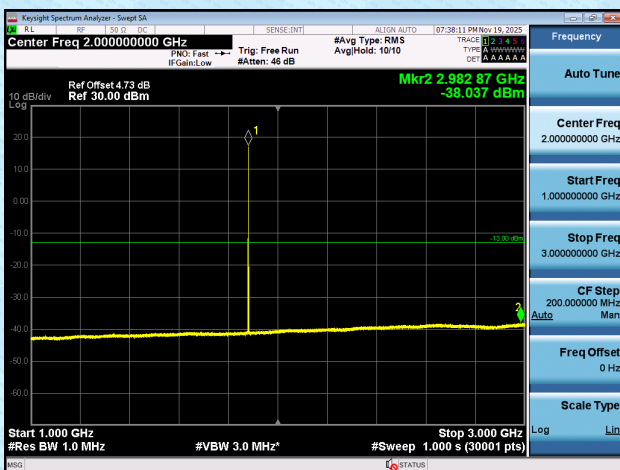
GSM1900-512-0-3000~18000MHz-PASS



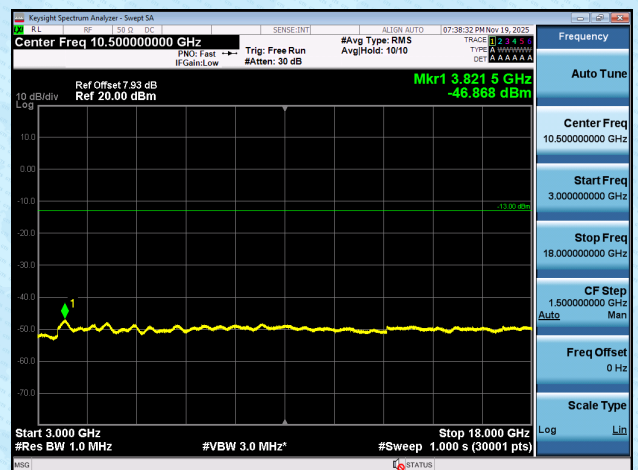
GSM1900-661-0-30~1000MHz-PASS



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



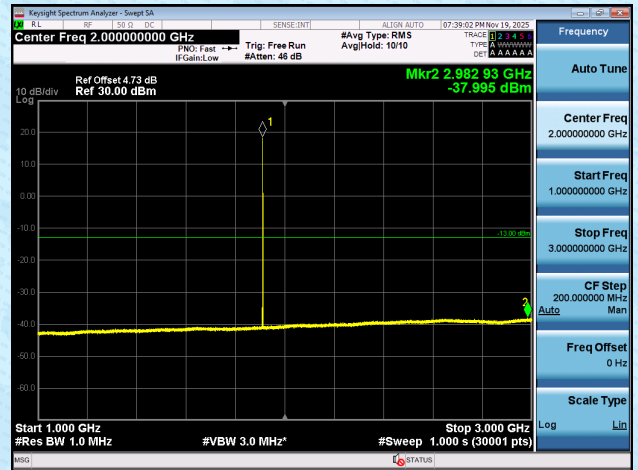
GSM1900-661-0-3000~18000MHz-PASS



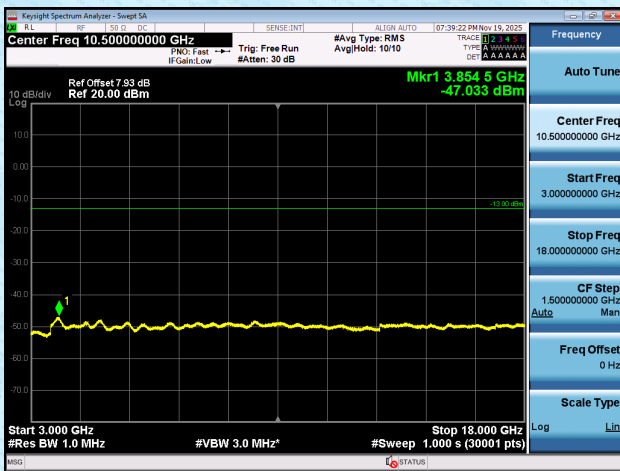
GSM1900-810-0-30~1000MHz-PASS



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



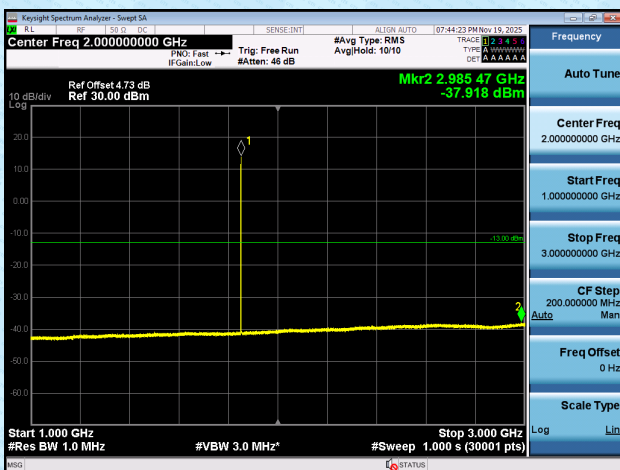
GSM1900-810-0-3000~18000MHz-PASS



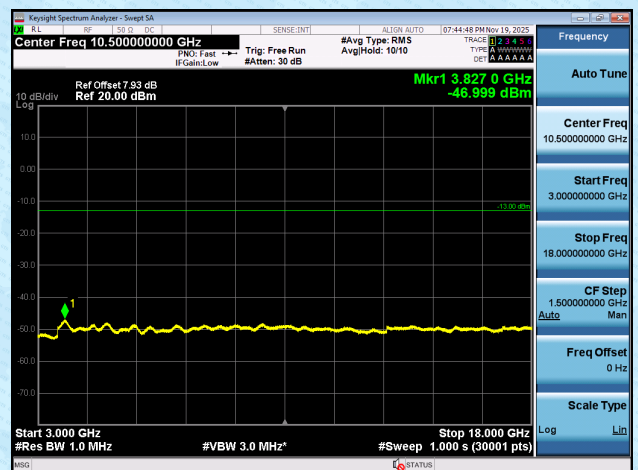
EGPRS1900-512-2-30~1000MHz-PASS



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



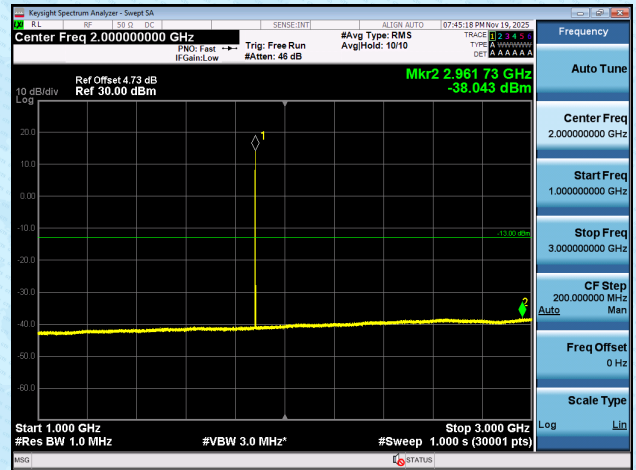
EGPRS1900-512-2-3000~18000MHz-PASS



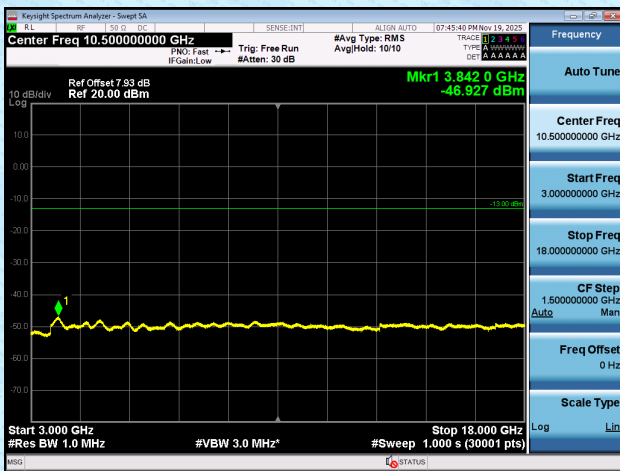
EGPRS1900-661-2-30~1000MHz-PASS



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



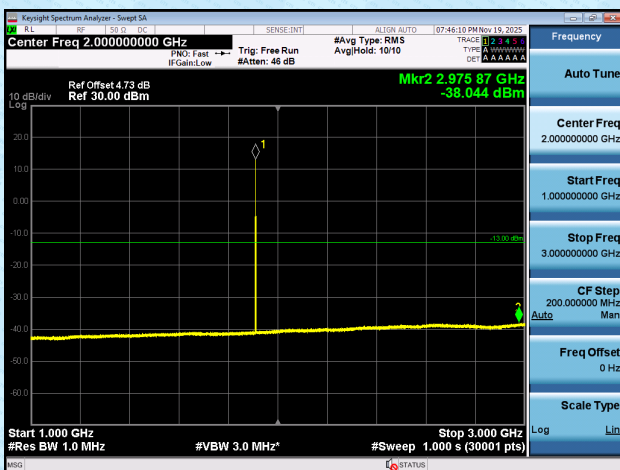
EGPRS1900-661-2-3000~18000MHz-PASS



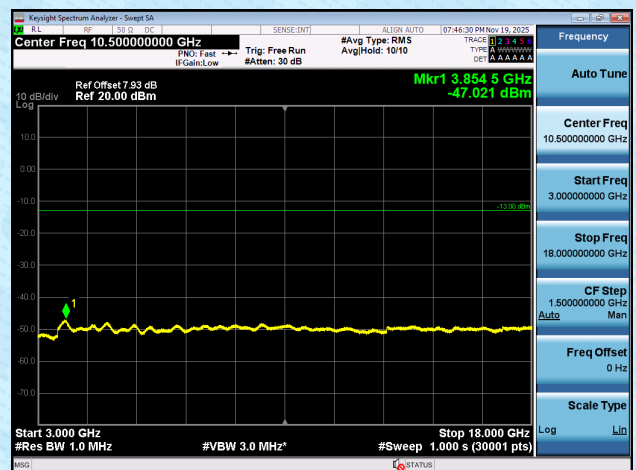
EGPRS1900-810-2-30~1000MHz-PASS



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



EGPRS1900-810-2-3000~18000MHz-PASS



Frequency Stability

Test Result and Data

GSM850__Mid Channe					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	15.85	0.018946	±2.5	PASS
LV	NT	15.66	0.018719		PASS
HV	NT	16.01	0.019137		PASS
NV	-30	13.79	0.016483		PASS
NV	-20	16.01	0.019137		PASS
NV	-10	14.69	0.017559		PASS
NV	0	13.72	0.016400		PASS
NV	10	13.11	0.015671		PASS
NV	20	14.14	0.016902		PASS
NV	30	12.11	0.014475		PASS
NV	40	12.07	0.014427		PASS
NV	50	14.30	0.017093		PASS

EGPRS850__Mid Channe					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	21.86	0.026130	±2.5	PASS
LV	NT	19.92	0.023811		PASS
HV	NT	20.60	0.024623		PASS
NV	-30	19.92	0.023811		PASS
NV	-20	20.60	0.024623		PASS
NV	-10	19.53	0.023344		PASS
NV	0	21.63	0.025855		PASS
NV	10	20.28	0.024241		PASS
NV	20	20.24	0.024193		PASS
NV	30	20.44	0.024432		PASS
NV	40	21.24	0.025388		PASS
NV	50	19.60	0.023428		PASS

GSM1900__Mid Channe					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	9.62	0.005117	Within authorized band for GSM1900	PASS
LV	NT	11.30	0.006011		PASS
HV	NT	10.69	0.005686		PASS
NV	-30	10.94	0.005819		PASS
NV	-20	14.37	0.007644		PASS
NV	-10	12.07	0.006420		PASS
NV	0	14.30	0.007606		PASS
NV	10	9.33	0.004963		PASS
NV	20	11.91	0.006335		PASS
NV	30	8.43	0.004484		PASS
NV	40	10.75	0.005718		PASS
NV	50	13.08	0.006957		PASS

EGPRS1900__Mid Channe					
Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NV	NT	16.82	0.008947	Within authorized band for EGPRS1900	PASS
LV	NT	16.92	0.009000		PASS
HV	NT	17.05	0.009069		PASS
NV	-30	16.95	0.009016		PASS
NV	-20	17.72	0.009426		PASS
NV	-10	16.72	0.008894		PASS
NV	0	16.59	0.008824		PASS
NV	10	17.27	0.009186		PASS
NV	20	18.89	0.010048		PASS
NV	30	19.18	0.010202		PASS
NV	40	16.92	0.009000		PASS
NV	50	17.50	0.009309		PASS

Note 1: Normal Voltage = 3.79V, Low Voltage = 3.25V, High Voltage = 4.35V, Normal Temperature = 20°C.

****END OF REPORT****