



Report

Contents

Conducted output power	2
Frequency stability	4
Peak-to-Average Ratio.....	6
Occupied bandwidth.....	11
Band edge.....	16
Out-of-band emissions.....	19



Report

Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	Verdict
GPRS850 1 Slot	128	824.2	23.35	3	24.20	38.45	PASS
GPRS850 1 Slot	190	836.6	23.43	3	24.28	38.45	PASS
GPRS850 1 Slot	251	848.8	22.93	3	23.78	38.45	PASS
GPRS850 2 Slot	128	824.2	23.35	3	24.20	38.45	PASS
GPRS850 2 Slot	190	836.6	23.43	3	24.28	38.45	PASS
GPRS850 2 Slot	251	848.8	22.92	3	23.77	38.45	PASS
GPRS850 3 Slot	128	824.2	23.36	3	24.21	38.45	PASS
GPRS850 3 Slot	190	836.6	23.43	3	24.28	38.45	PASS
GPRS850 3 Slot	251	848.8	22.93	3	23.78	38.45	PASS
GPRS850 4 Slot	128	824.2	23.36	3	24.21	38.45	PASS
GPRS850 4 Slot	190	836.6	23.46	3	24.31	38.45	PASS
GPRS850 4 Slot	251	848.8	22.94	3	23.79	38.45	PASS
EGPRS850 1 Slot	128	824.2	27.04	3	27.89	38.45	PASS
EGPRS850 1 Slot	190	836.6	27.53	3	28.38	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.10	3	27.95	38.45	PASS
EGPRS850 2 Slot	128	824.2	26.37	3	27.22	38.45	PASS
EGPRS850 2 Slot	190	836.6	26.91	3	27.76	38.45	PASS
EGPRS850 2 Slot	251	848.8	26.19	3	27.04	38.45	PASS
EGPRS850 3 Slot	128	824.2	24.29	3	25.14	38.45	PASS
EGPRS850 3 Slot	190	836.6	24.35	3	25.20	38.45	PASS
EGPRS850 3 Slot	251	848.8	24.15	3	25.00	38.45	PASS
EGPRS850 4 Slot	128	824.2	23.11	3	23.96	38.45	PASS
EGPRS850 4 Slot	190	836.6	23.37	3	24.22	38.45	PASS
EGPRS850 4 Slot	251	848.8	22.72	3	23.57	38.45	PASS



Report

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
GPRS1900 1 Slot	512	1850.2	29.89	3	32.89	33.01	PASS
GPRS1900 1 Slot	661	1880	29.69	3	32.69	33.01	PASS
GPRS1900 1 Slot	810	1909.8	29.80	3	32.80	33.01	PASS
GPRS1900 2 Slot	512	1850.2	29.10	3	32.10	33.01	PASS
GPRS1900 2 Slot	661	1880	28.87	3	31.87	33.01	PASS
GPRS1900 2 Slot	810	1909.8	29.02	3	32.02	33.01	PASS
GPRS1900 3 Slot	512	1850.2	27.02	3	30.02	33.01	PASS
GPRS1900 3 Slot	661	1880	26.83	3	29.83	33.01	PASS
GPRS1900 3 Slot	810	1909.8	26.96	3	29.96	33.01	PASS
GPRS1900 4 Slot	512	1850.2	25.73	3	28.73	33.01	PASS
GPRS1900 4 Slot	661	1880	25.50	3	28.50	33.01	PASS
GPRS1900 4 Slot	810	1909.8	25.66	3	28.66	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	26.17	3	29.17	33.01	PASS
EGPRS1900 1 Slot	661	1880	26.29	3	29.29	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	26.18	3	29.18	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	24.97	3	27.97	33.01	PASS
EGPRS1900 2 Slot	661	1880	25.09	3	28.09	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	25.30	3	28.30	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	23.07	3	26.07	33.01	PASS
EGPRS1900 3 Slot	661	1880	22.92	3	25.92	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	23.21	3	26.21	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	21.73	3	24.73	33.01	PASS
EGPRS1900 4 Slot	661	1880	21.52	3	24.52	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	22.08	3	25.08	33.01	PASS



Report

Frequency stability

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	1.24	0.001	2.5ppm	PASS
40		1.29	0.002		
30		1.43	0.002		
20		0.77	0.001		
10		-1.46	-0.002		
0		-1.43	-0.002		
-10		-1.50	-0.002		
-20		-1.41	-0.002		
-30		1.09	0.001		
20	Maximum Voltage	-1.43	-0.002		
20	BEP	-0.93	-0.001		

EGPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.36	0.000	2.5ppm	PASS
40		-0.48	-0.001		
30		-0.10	0.000		
20		-0.97	-0.001		
10		-0.09	0.000		
0		-0.07	0.000		
-10		0.44	0.001		
-20		0.63	0.001		
-30		-0.58	-0.001		
20	Maximum Voltage	-0.46	-0.001		
20	BEP	-0.17	0.000		



Report

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	4.45	0.002	Within Authorized Band	PASS
40		4.21	0.002		
30		-4.56	-0.002		
20		6.88	0.004		
10		-4.37	-0.002		
0		-4.23	-0.002		
-10		4.41	0.002		
-20		4.42	0.002		
-30		-4.22	-0.002		
20	Maximum Voltage	4.14	0.002		
20	BEP	4.55	0.002		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-4.59	-0.002	Within Authorized Band	PASS
40		4.53	0.002		
30		4.95	0.003		
20		7.81	0.004		
10		4.97	0.003		
0		-4.82	-0.003		
-10		4.61	0.002		
-20		-4.54	-0.002		
-30		4.57	0.002		
20	Maximum Voltage	-4.54	-0.002		
20	BEP	-4.98	-0.003		

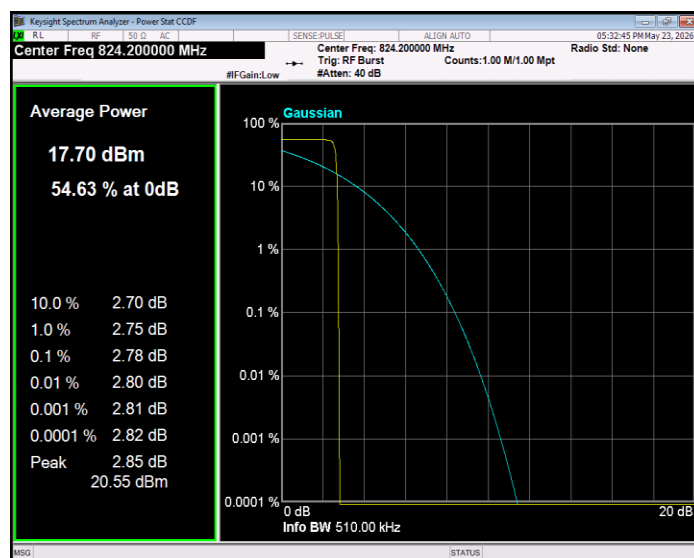


Report

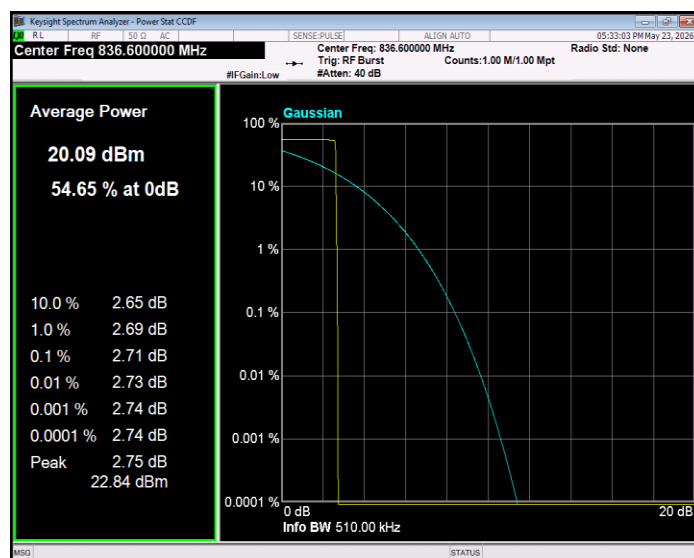
Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GPRS850	128	824.2	2.78	13	PASS
GPRS850	190	836.6	2.71	13	PASS
GPRS850	251	848.8	2.71	13	PASS
EGPRS850	128	824.2	5.71	13	PASS
EGPRS850	190	836.6	5.52	13	PASS
EGPRS850	251	848.8	5.66	13	PASS
GPRS1900	512	1850.2	2.73	13	PASS
GPRS1900	661	1880	2.72	13	PASS
GPRS1900	810	1909.8	2.73	13	PASS
EGPRS1900	512	1850.2	6.51	13	PASS
EGPRS1900	661	1880	6.34	13	PASS
EGPRS1900	810	1909.8	6.39	13	PASS

GPRS850 Channel=128



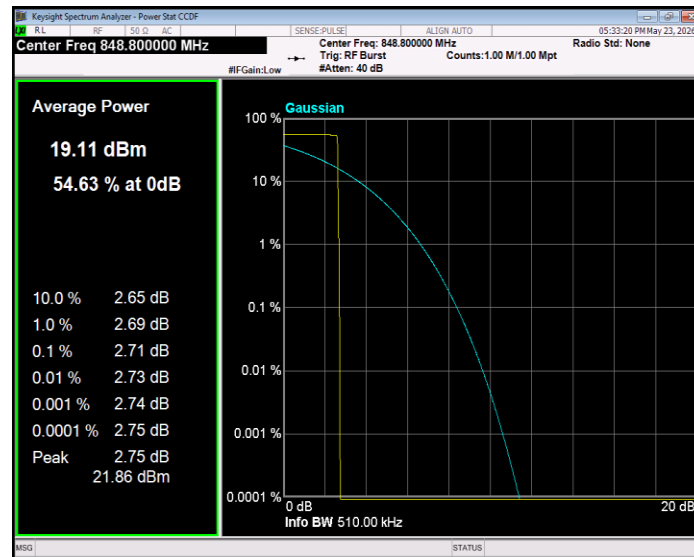
GPRS850 Channel=190



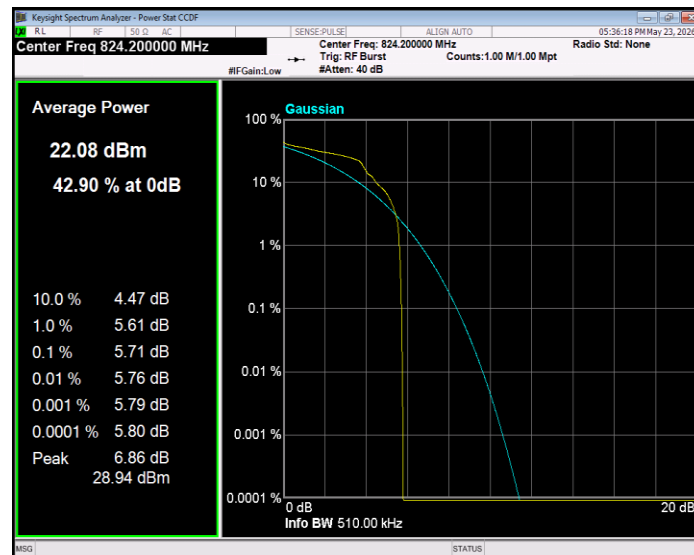


Report

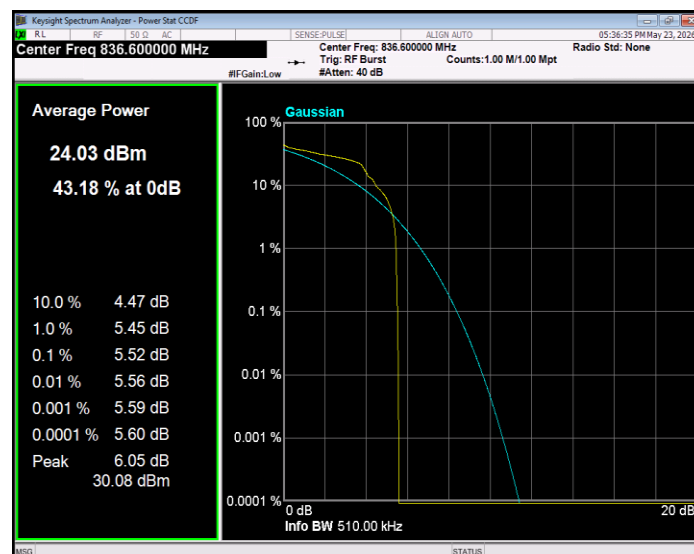
GPRS850 Channel=251



EGPRS850 Channel=128



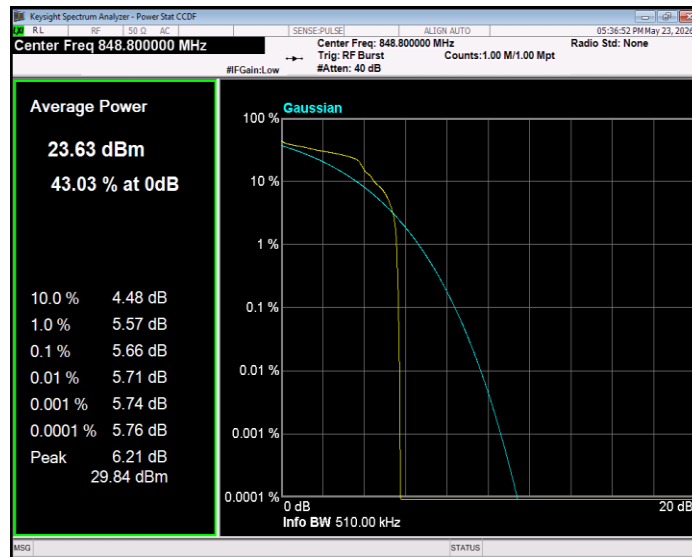
EGPRS850 Channel=190



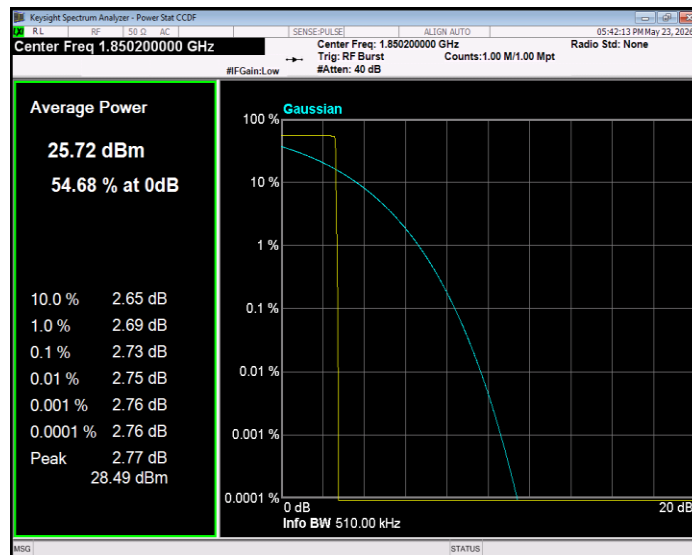


Report

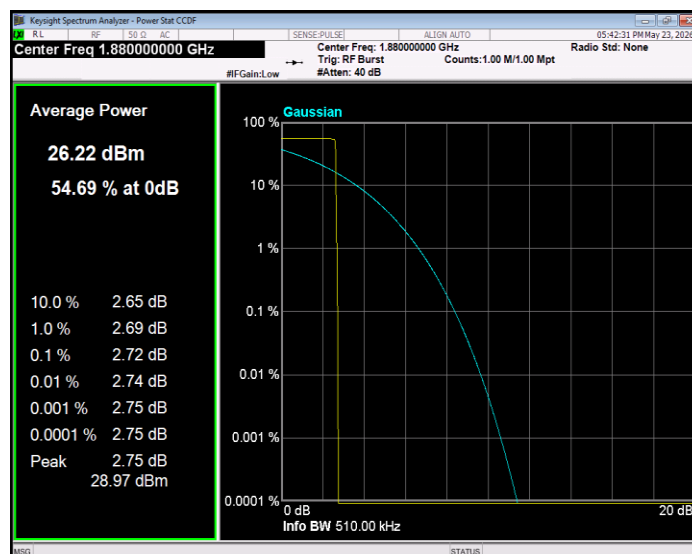
EGPRS850 Channel=251



GPRS1900 Channel=512



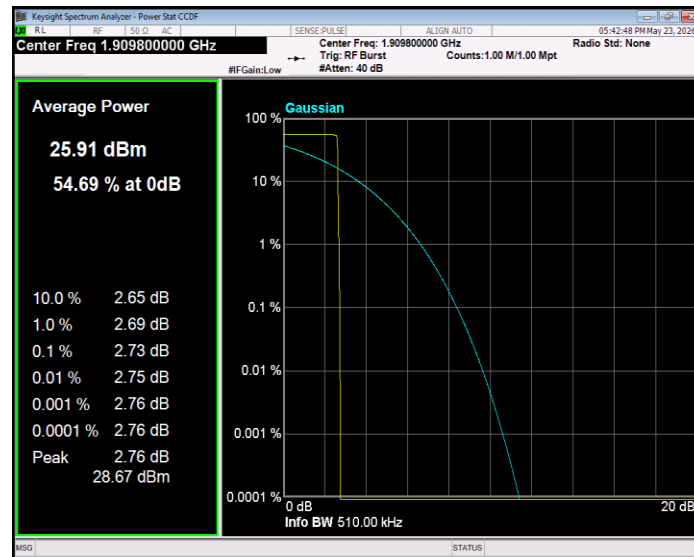
GPRS1900 Channel=661



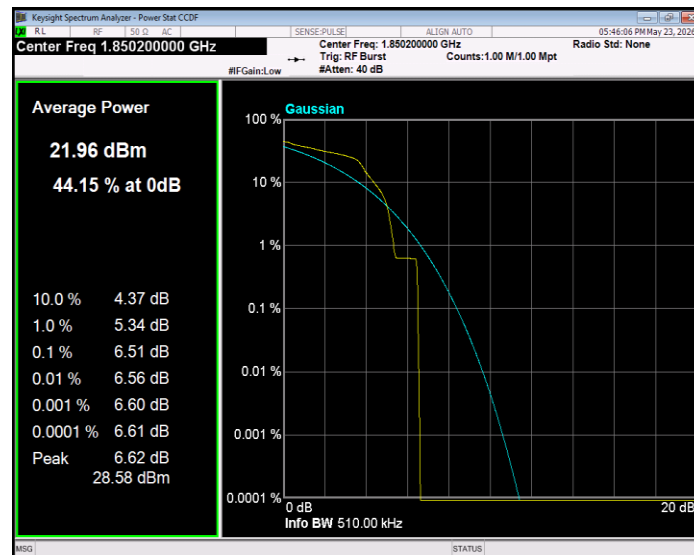


Report

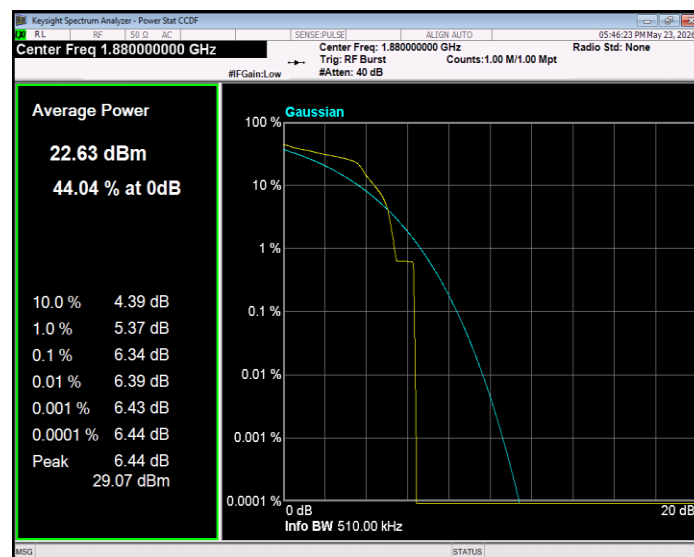
GPRS1900 Channel=810



EGPRS1900 Channel=512



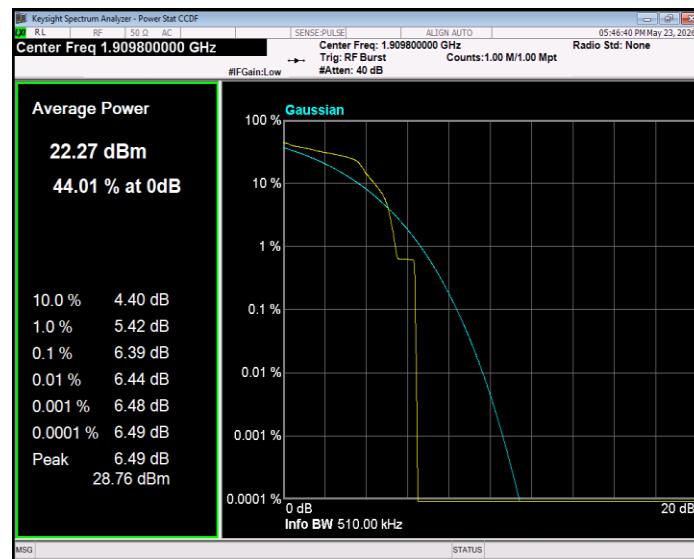
EGPRS1900 Channel=661





Report

EGPRS1900 Channel=810



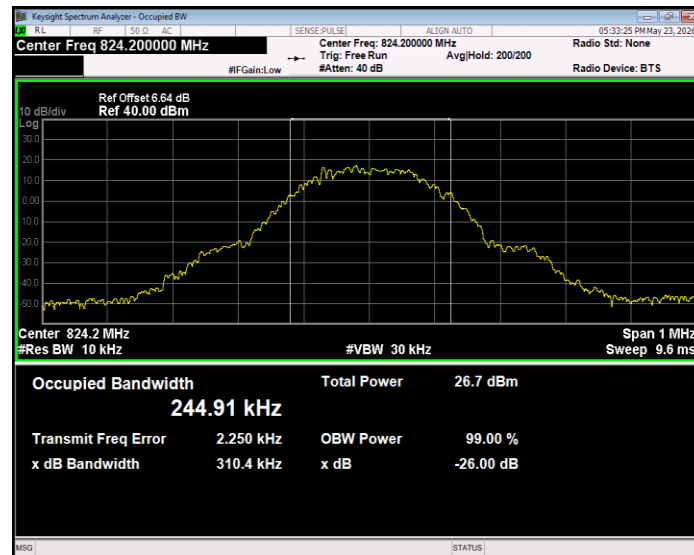


Report

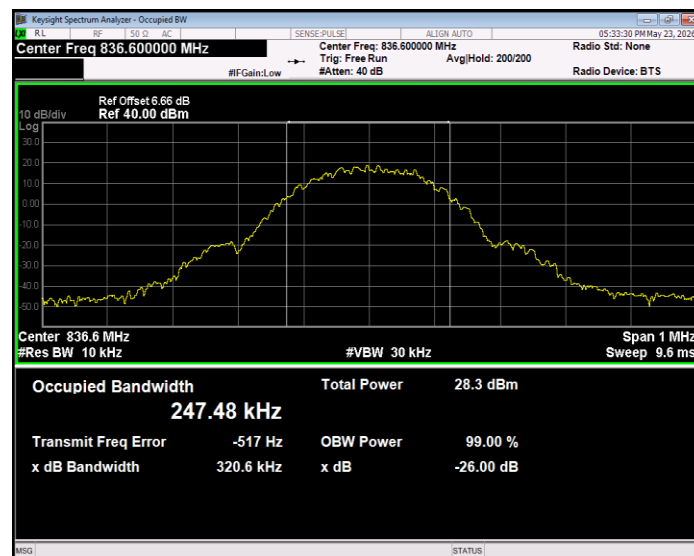
Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GPRS850	128	824.2	244.911	310.409	PASS
GPRS850	190	836.6	247.479	320.637	PASS
GPRS850	251	848.8	244.140	323.527	PASS
EGPRS850	128	824.2	251.894	323.055	PASS
EGPRS850	190	836.6	240.674	306.085	PASS
EGPRS850	251	848.8	246.266	313.348	PASS
GPRS1900	512	1850.2	246.173	313.217	PASS
GPRS1900	661	1880	241.669	310.003	PASS
GPRS1900	810	1909.8	250.244	318.956	PASS
EGPRS1900	512	1850.2	250.244	309.635	PASS
EGPRS1900	661	1880	253.773	319.000	PASS
EGPRS1900	810	1909.8	250.450	315.733	PASS

GPRS850 Channel=128



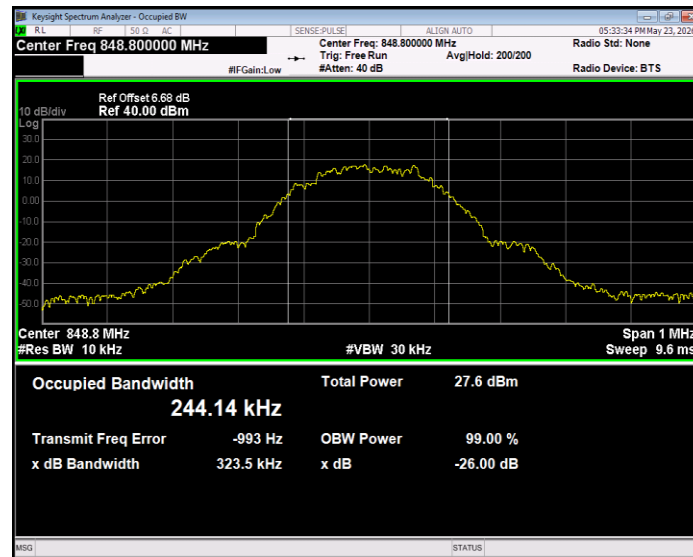
GPRS850 Channel=190



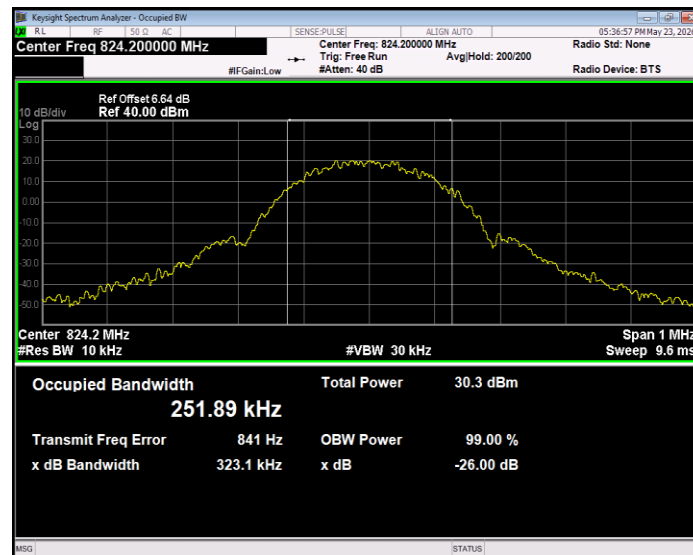


Report

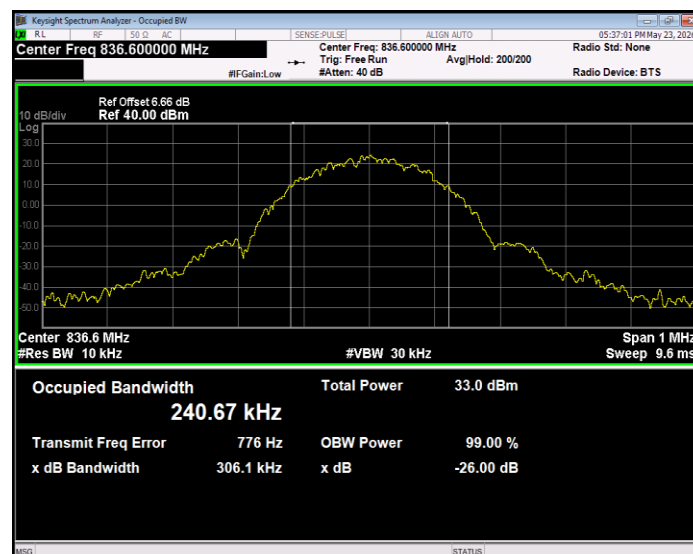
GPRS850 Channel=251



EGPRS850 Channel=128



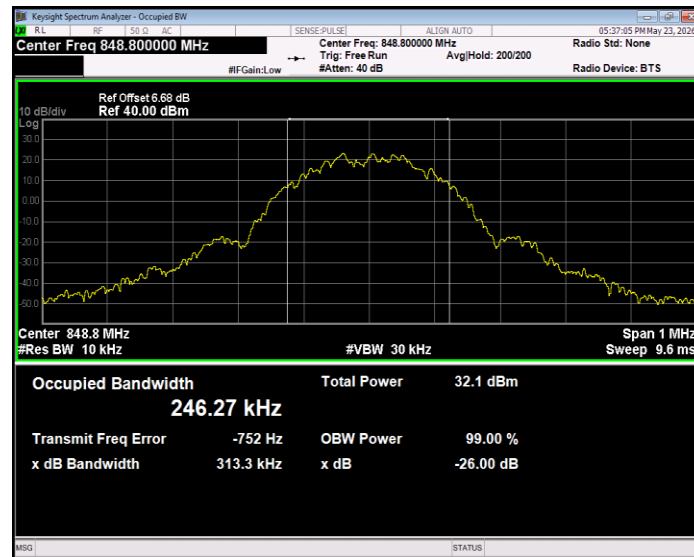
EGPRS850 Channel=190



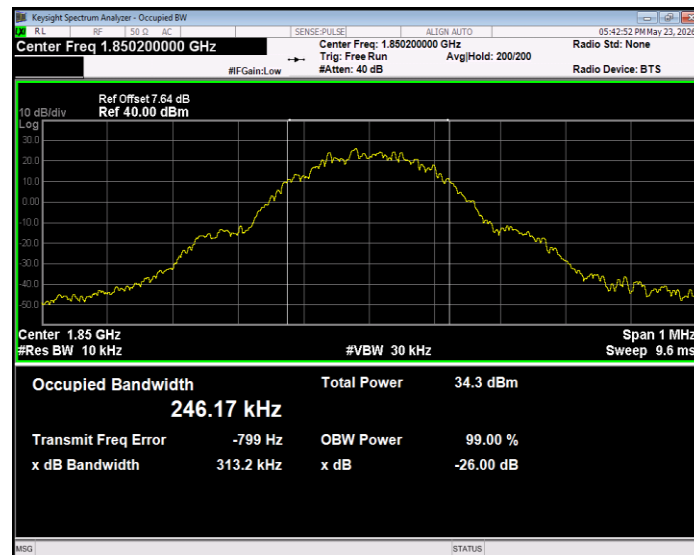


Report

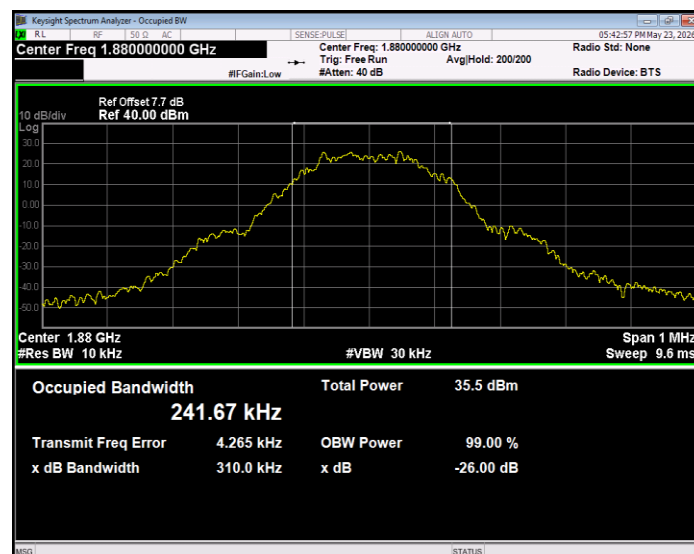
EGPRS850 Channel=251



GPRS1900 Channel=512



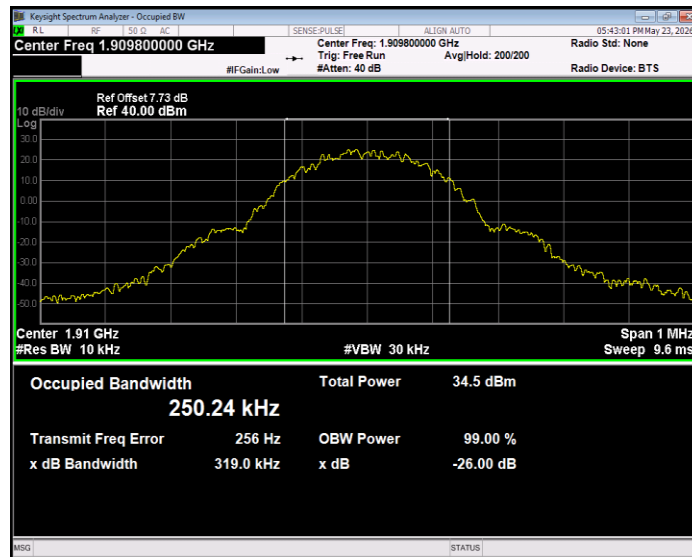
GPRS1900 Channel=661



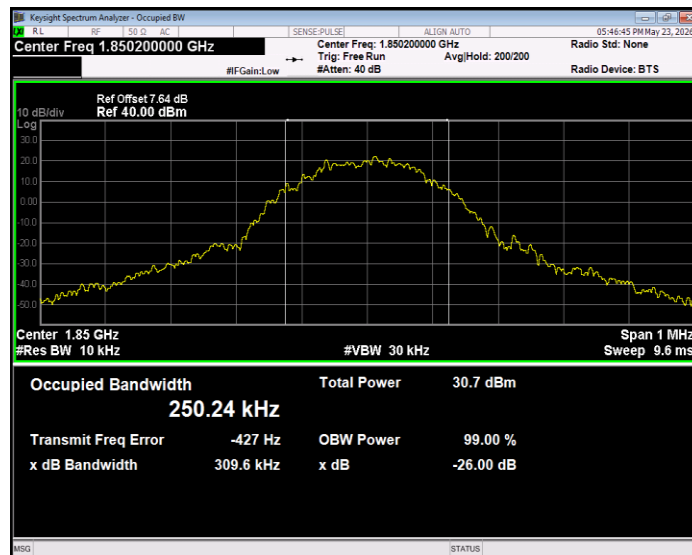


Report

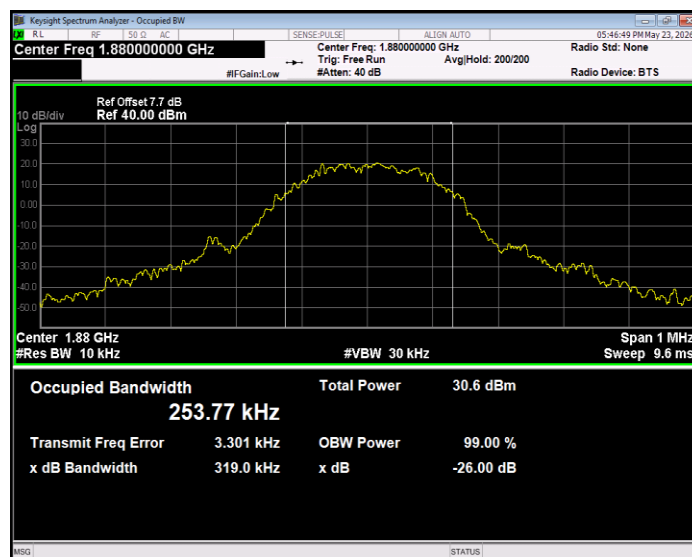
GPRS1900 Channel=810



EGPRS1900 Channel=512



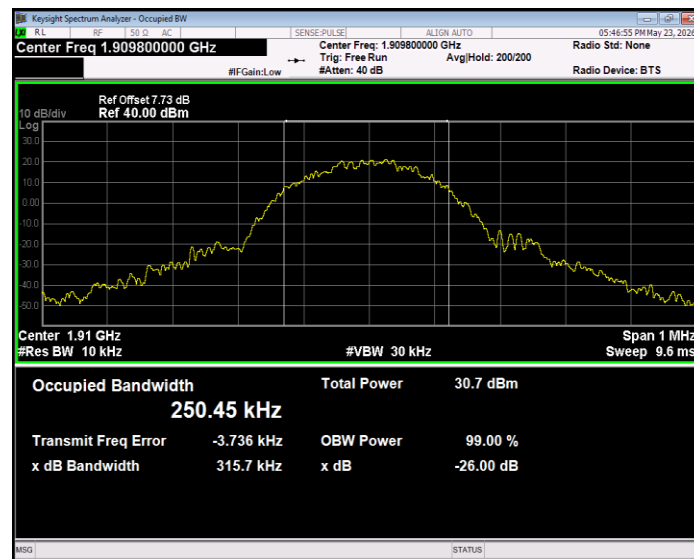
EGPRS1900 Channel=661





Report

EGPRS1900 Channel=810



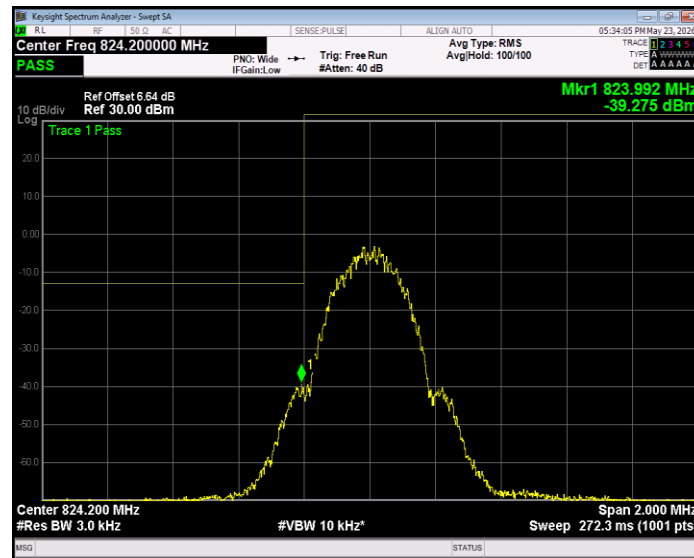


Report

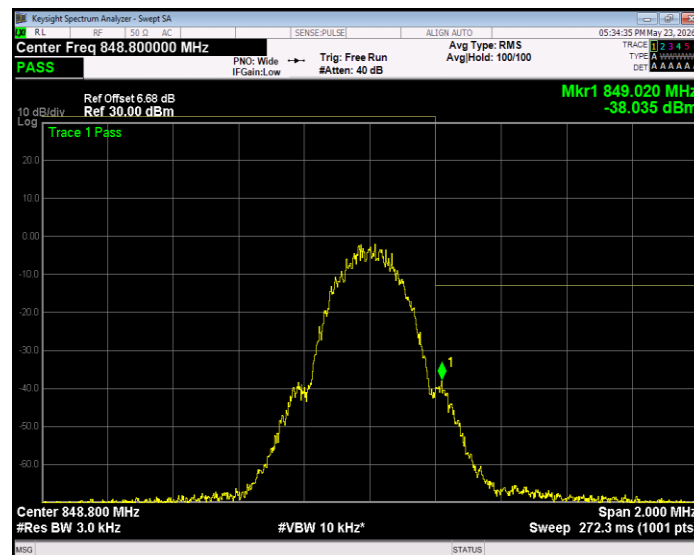
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS850	128	824.2	823.99	-39.27	-13	PASS
GPRS850	251	848.8	849.02	-38.03	-13	PASS
EGPRS850	128	824.2	823.98	-39.19	-13	PASS
EGPRS850	251	848.8	849.00	-36.85	-13	PASS
GPRS1900	512	1850.2	1849.98	-32.46	-13	PASS
GPRS1900	810	1909.8	1910.01	-31.68	-13	PASS
EGPRS1900	512	1850.2	1849.99	-38.82	-13	PASS
EGPRS1900	810	1909.8	1910.01	-40.35	-13	PASS

GPRS850 Channel=128



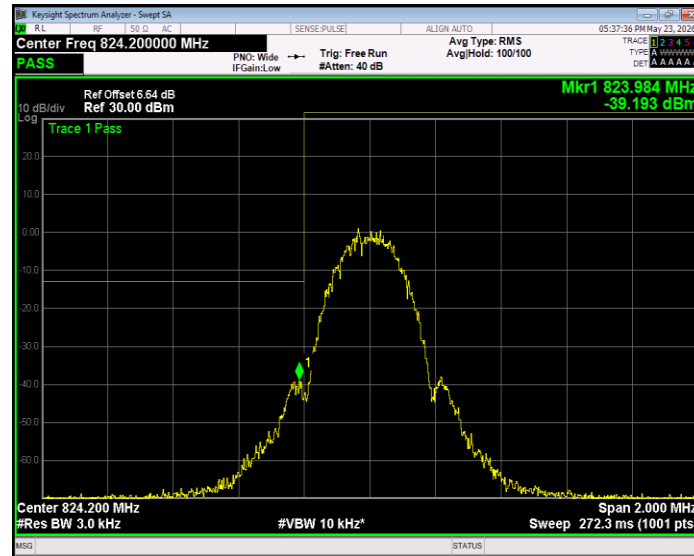
GPRS850 Channel=251



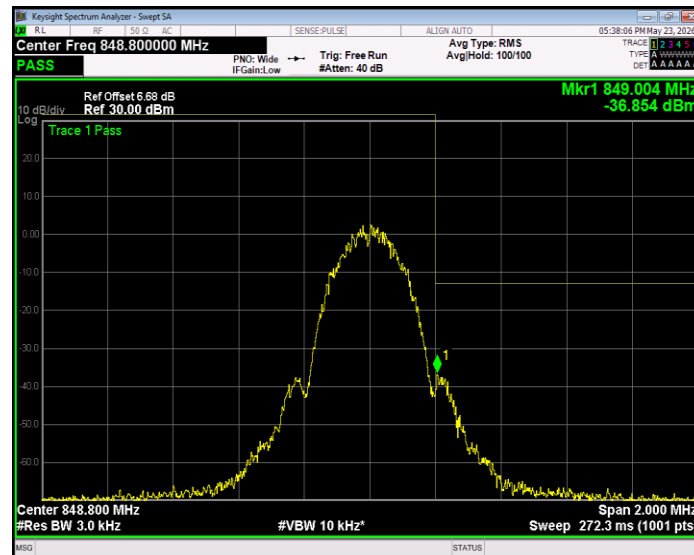
EGPRS850 Channel=128



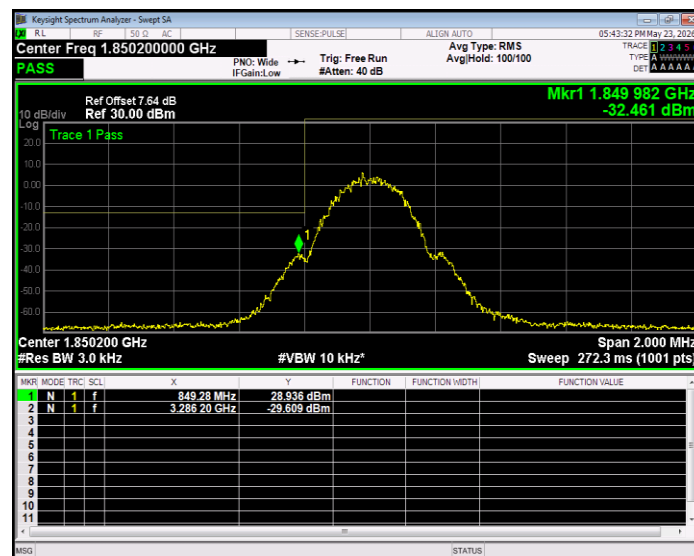
Report



EGPRS850 Channel=251



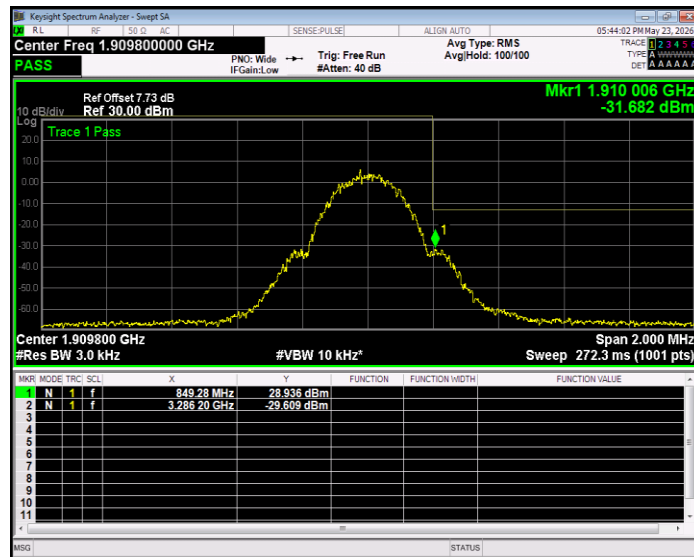
GPRS1900 Channel=512



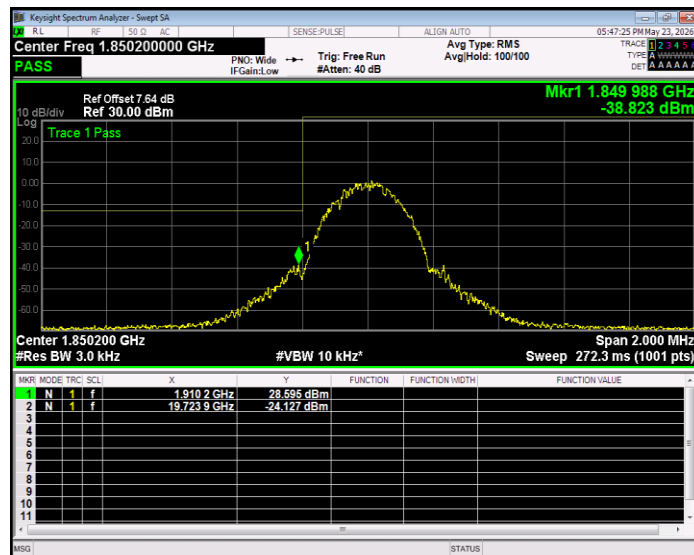


Report

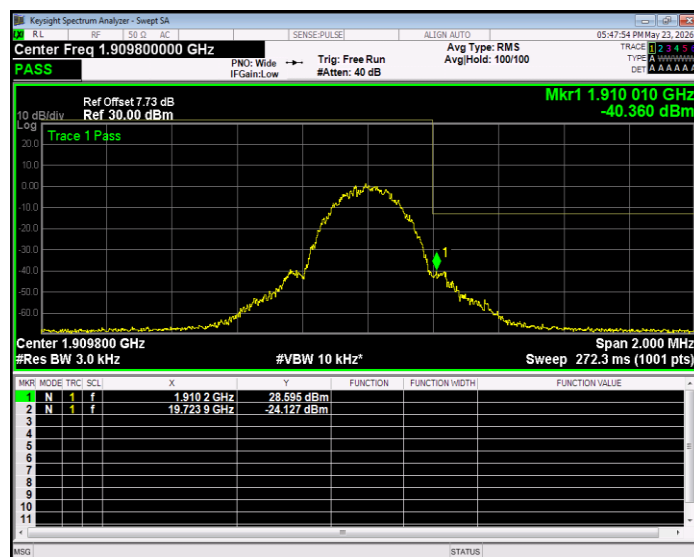
GPRS1900 Channel=810



EGPRS1900 Channel=512



EGPRS1900 Channel=810



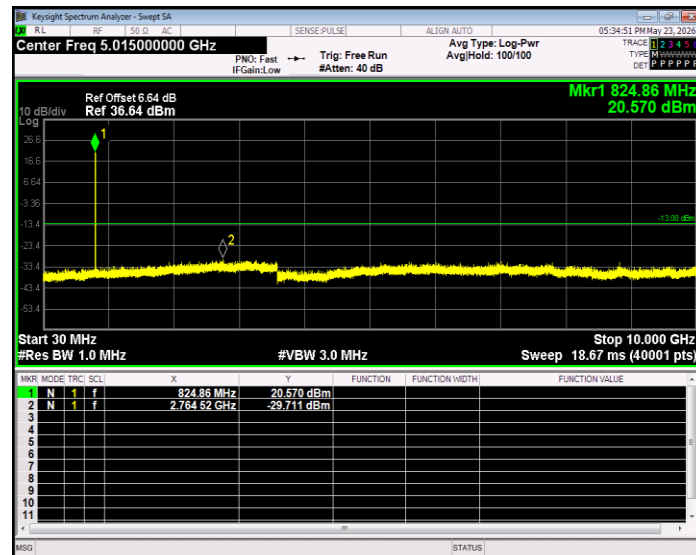


Report

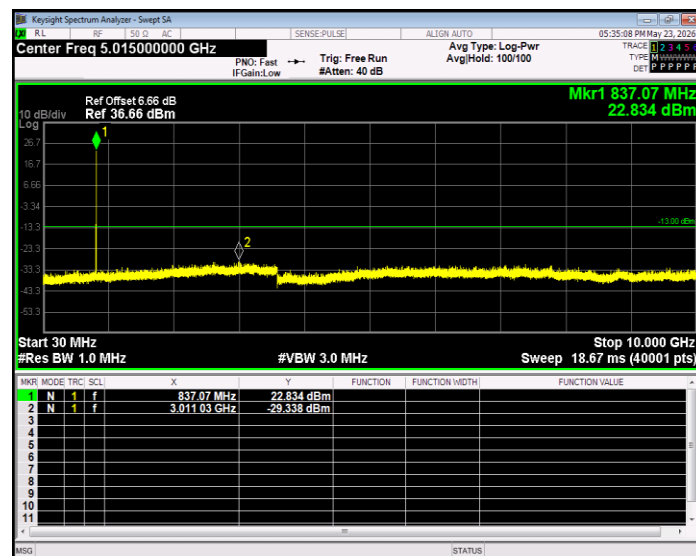
Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS850	128	824.2	2764.52	-29.71	-13	PASS
GPRS850	190	836.6	3011.03	-29.33	-13	PASS
GPRS850	251	848.8	3137.15	-29.82	-13	PASS
EGPRS850	128	824.2	3241.84	-29.29	-13	PASS
EGPRS850	190	836.6	3247.82	-29.34	-13	PASS
EGPRS850	251	848.8	3286.20	-29.60	-13	PASS
GPRS1900	512	1850.2	19747.38	-23.84	-13	PASS
GPRS1900	661	1880	18875.19	-24.25	-13	PASS
GPRS1900	810	1909.8	19723.91	-24.12	-13	PASS
EGPRS1900	512	1850.2	19839.74	-23.95	-13	PASS
EGPRS1900	661	1880	19092.86	-23.73	-13	PASS
EGPRS1900	810	1909.8	19903.15	-24.46	-13	PASS

GPRS850 Channel=128



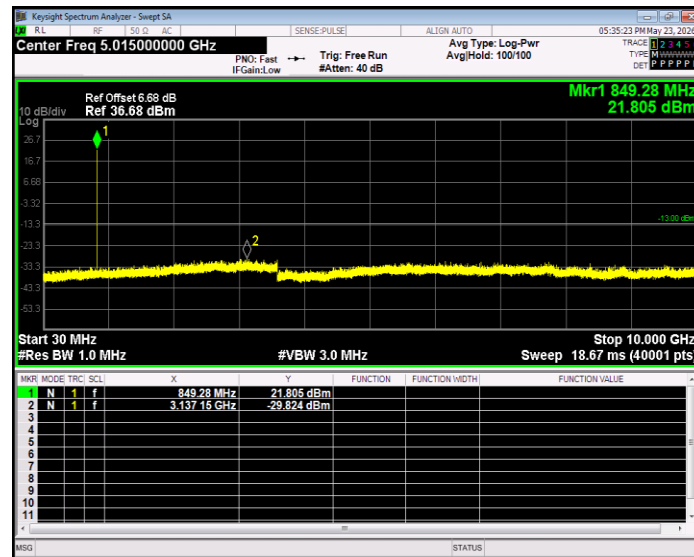
GPRS850 Channel=190



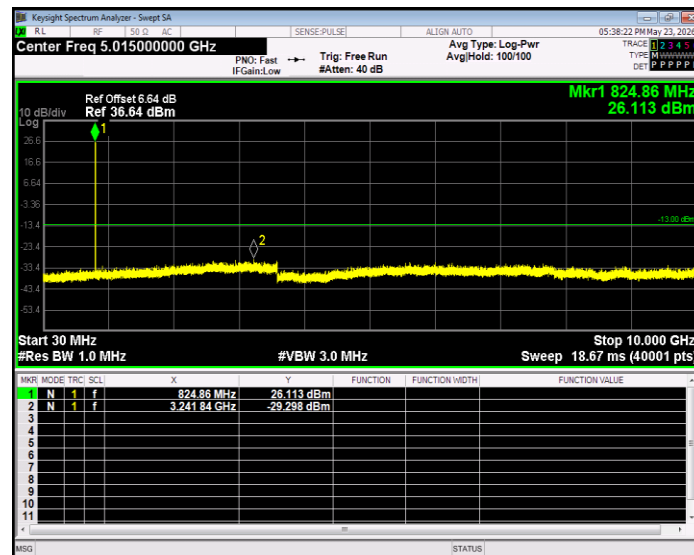


Report

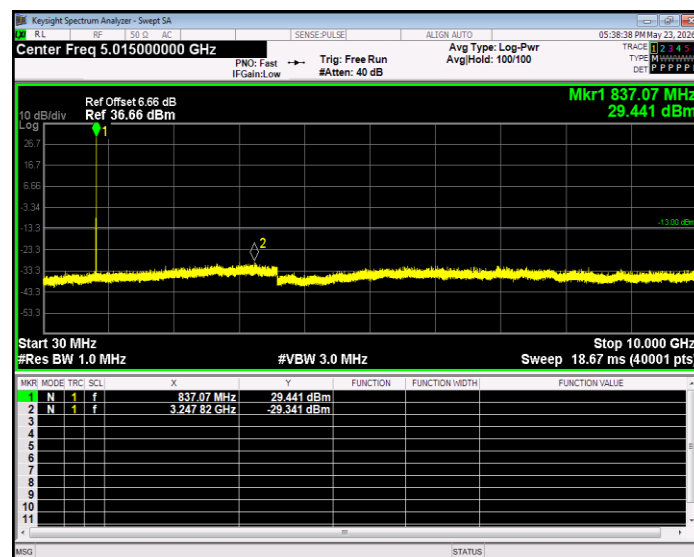
GPRS850 Channel=251



EGPRS850 Channel=128



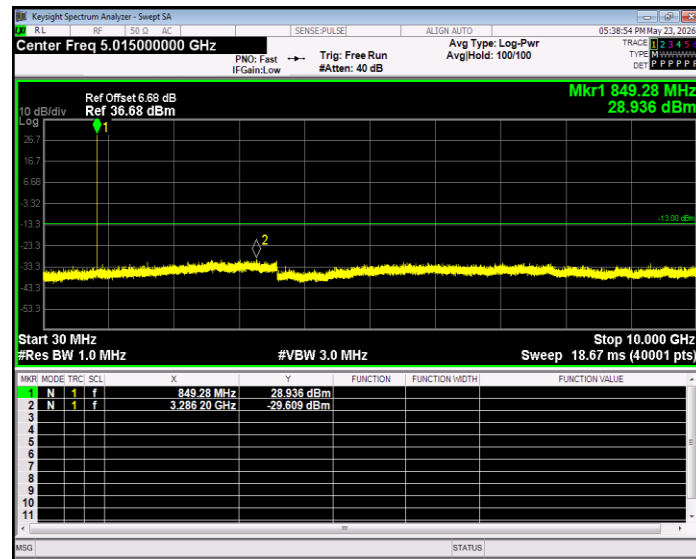
EGPRS850 Channel=190



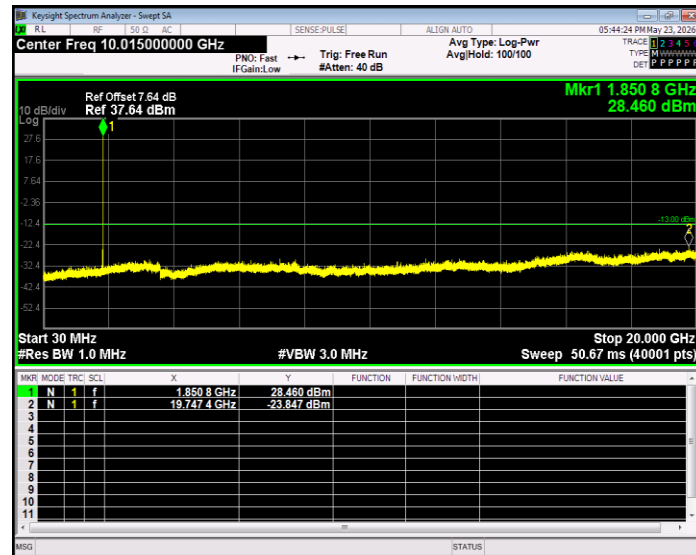


Report

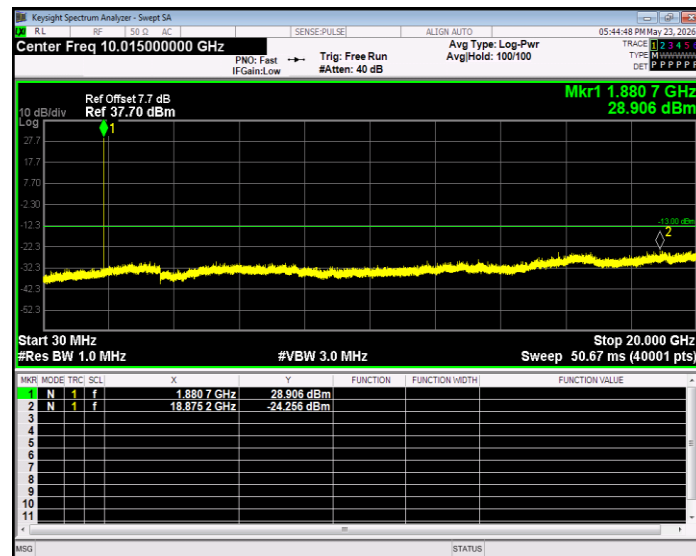
EGPRS850 Channel=251



GPRS1900 Channel=512



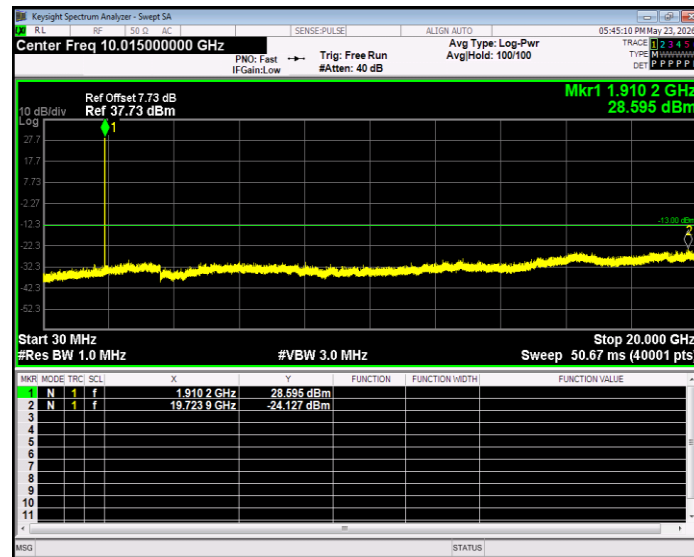
GPRS1900 Channel=661



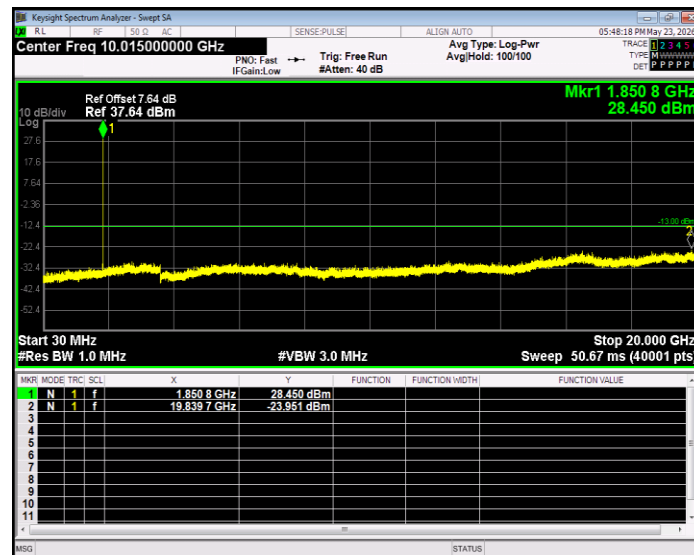


Report

GPRS1900 Channel=810



EGPRS1900 Channel=512



EGPRS1900 Channel=661





Report

EGPRS1900 Channel=810

