



Report

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Report

Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	Verdict
GSM850	128	824.2	33.55	1.48	32.88	38.45	PASS
GSM850	190	836.6	33.55	1.48	32.88	38.45	PASS
GSM850	251	848.8	33.20	1.48	32.53	38.45	PASS
GPRS850 1 Slot	128	824.2	33.56	1.48	32.89	38.45	PASS
GPRS850 1 Slot	190	836.6	33.55	1.48	32.88	38.45	PASS
GPRS850 1 Slot	251	848.8	33.23	1.48	32.56	38.45	PASS
GPRS850 2 Slot	128	824.2	32.80	1.48	32.13	38.45	PASS
GPRS850 2 Slot	190	836.6	32.85	1.48	32.18	38.45	PASS
GPRS850 2 Slot	251	848.8	32.50	1.48	31.83	38.45	PASS
GPRS850 3 Slot	128	824.2	31.07	1.48	30.40	38.45	PASS
GPRS850 3 Slot	190	836.6	31.23	1.48	30.56	38.45	PASS
GPRS850 3 Slot	251	848.8	30.76	1.48	30.09	38.45	PASS
GPRS850 4 Slot	128	824.2	29.96	1.48	29.29	38.45	PASS
GPRS850 4 Slot	190	836.6	30.16	1.48	29.49	38.45	PASS
GPRS850 4 Slot	251	848.8	29.65	1.48	28.98	38.45	PASS
EGPRS850 1 Slot	128	824.2	33.57	1.48	32.90	38.45	PASS
EGPRS850 1 Slot	190	836.6	33.56	1.48	32.89	38.45	PASS
EGPRS850 1 Slot	251	848.8	33.24	1.48	32.57	38.45	PASS
EGPRS850 2 Slot	128	824.2	32.80	1.48	32.13	38.45	PASS
EGPRS850 2 Slot	190	836.6	32.86	1.48	32.19	38.45	PASS
EGPRS850 2 Slot	251	848.8	32.49	1.48	31.82	38.45	PASS
EGPRS850 3 Slot	128	824.2	31.07	1.48	30.40	38.45	PASS
EGPRS850 3 Slot	190	836.6	31.24	1.48	30.57	38.45	PASS
EGPRS850 3 Slot	251	848.8	30.76	1.48	30.09	38.45	PASS
EGPRS850 4 Slot	128	824.2	29.97	1.48	29.30	38.45	PASS
EGPRS850 4 Slot	190	836.6	30.15	1.48	29.48	38.45	PASS
EGPRS850 4 Slot	251	848.8	29.64	1.48	28.97	38.45	PASS



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Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
GSM1900	512	1850.2	29.69	3.14	32.83	33.01	PASS
GSM1900	661	1880	29.85	3.14	32.99	33.01	PASS
GSM1900	810	1909.8	29.44	3.14	32.58	33.01	PASS
GPRS1900 1 Slot	512	1850.2	29.69	3.14	32.83	33.01	PASS
GPRS1900 1 Slot	661	1880	29.75	3.14	32.89	33.01	PASS
GPRS1900 1 Slot	810	1909.8	29.46	3.14	32.6	33.01	PASS
GPRS1900 2 Slot	512	1850.2	28.92	3.14	32.06	33.01	PASS
GPRS1900 2 Slot	661	1880	29.23	3.14	32.37	33.01	PASS
GPRS1900 2 Slot	810	1909.8	28.66	3.14	31.8	33.01	PASS
GPRS1900 3 Slot	512	1850.2	27.17	3.14	30.31	33.01	PASS
GPRS1900 3 Slot	661	1880	27.48	3.14	30.62	33.01	PASS
GPRS1900 3 Slot	810	1909.8	26.95	3.14	30.09	33.01	PASS
GPRS1900 4 Slot	512	1850.2	27.13	3.14	30.27	33.01	PASS
GPRS1900 4 Slot	661	1880	26.44	3.14	29.58	33.01	PASS
GPRS1900 4 Slot	810	1909.8	25.9	3.14	29.04	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	29.48	3.14	32.62	33.01	PASS
EGPRS1900 1 Slot	661	1880	29.68	3.14	32.82	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	29.44	3.14	32.58	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	28.93	3.14	32.07	33.01	PASS
EGPRS1900 2 Slot	661	1880	29.24	3.14	32.38	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	28.67	3.14	31.81	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	27.17	3.14	30.31	33.01	PASS
EGPRS1900 3 Slot	661	1880	27.48	3.14	30.62	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	26.95	3.14	30.09	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	26.14	3.14	29.28	33.01	PASS
EGPRS1900 4 Slot	661	1880	26.46	3.14	29.6	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	25.92	3.14	29.06	33.01	PASS



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Frequency stability

GSM 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-5.75	-0.007	2.5ppm	PASS
40		5.69	0.007		
30		5.78	0.007		
20		10.30	0.012		
10		6.20	0.007		
0		5.72	0.007		
-10		5.79	0.007		
-20		6.17	0.007		
-30		6.00	0.007		
20	Maximum Voltage	5.76	0.007		
20	BEP	5.98	0.007		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-4.67	-0.006	2.5ppm	PASS
40		4.43	0.005		
30		-4.62	-0.006		
20		7.49	0.009		
10		-4.62	-0.006		
0		4.47	0.005		
-10		-4.44	-0.005		
-20		4.67	0.006		
-30		4.39	0.005		
20	Maximum Voltage	4.68	0.006		
20	BEP	-4.66	-0.006		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	2.11	0.003	2.5ppm	PASS
40		-2.52	-0.003		
30		-2.62	-0.003		
20		3.16	0.004		
10		-2.36	-0.003		
0		-2.63	-0.003		
-10		-2.23	-0.003		
-20		2.17	0.003		
-30		-2.43	-0.003		
20	Maximum Voltage	2.28	0.003		
20	BEP	2.34	0.003		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-4.98	-0.003	Within Authorized Band	PASS
40		-5.25	-0.003		
30		-5.12	-0.003		
20		8.30	0.004		
10		-4.77	-0.003		
0		-4.72	-0.003		
-10		4.94	0.003		
-20		4.78	0.003		
-30		5.01	0.003		
20	Maximum Voltage	-5.23	-0.003		
20	BEP	-4.97	-0.003		



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GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.91	-0.001	Within Authorized Band	PASS
40		-2.02	-0.001		
30		2.14	0.001		
20		2.23	0.001		
10		-1.88	-0.001		
0		-1.76	-0.001		
-10		1.92	0.001		
-20		1.66	0.001		
-30		-2.20	-0.001		
20	Maximum Voltage	-1.69	-0.001		
20	BEP	-1.75	-0.001		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.68	0.000	Within Authorized Band	PASS
40		0.91	0.000		
30		1.18	0.001		
20		-3.49	-0.002		
10		-1.04	-0.001		
0		-0.93	0.000		
-10		-1.14	-0.001		
-20		-1.08	-0.001		
-30		0.68	0.000		
20	Maximum Voltage	-0.71	0.000		
20	BEP	0.94	0.001		

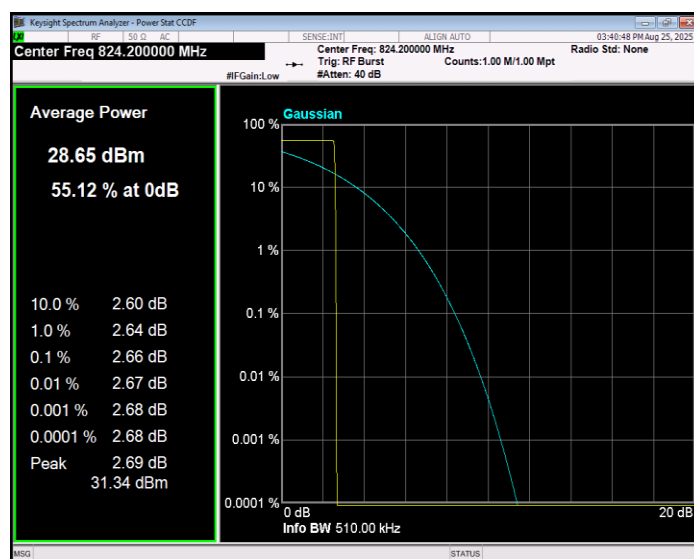


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.66	13	PASS
GSM850	190	836.6	2.66	13	PASS
GSM850	251	848.8	2.67	13	PASS
GPRS850	128	824.2	2.70	13	PASS
GPRS850	190	836.6	2.70	13	PASS
GPRS850	251	848.8	2.71	13	PASS
EGPRS850	128	824.2	2.71	13	PASS
EGPRS850	190	836.6	2.70	13	PASS
EGPRS850	251	848.8	2.70	13	PASS
GSM1900	512	1850.2	2.67	13	PASS
GSM1900	661	1880	2.67	13	PASS
GSM1900	810	1909.8	2.67	13	PASS
GPRS1900	512	1850.2	2.72	13	PASS
GPRS1900	661	1880	2.71	13	PASS
GPRS1900	810	1909.8	2.72	13	PASS
EGPRS1900	512	1850.2	2.71	13	PASS
EGPRS1900	661	1880	2.71	13	PASS
EGPRS1900	810	1909.8	2.71	13	PASS

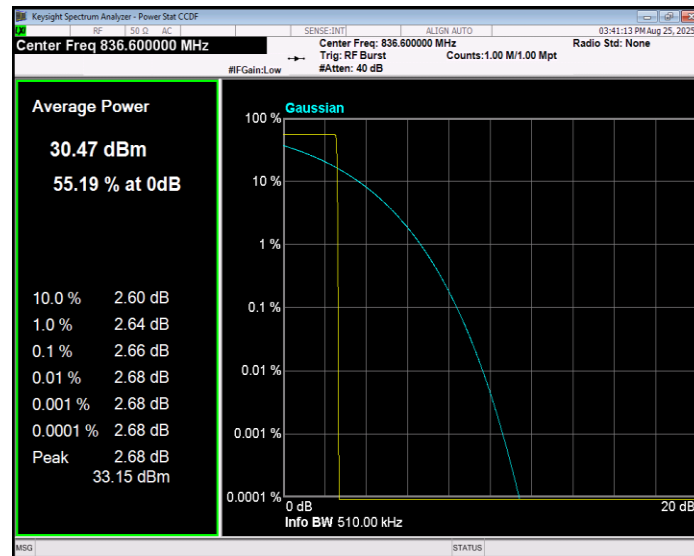
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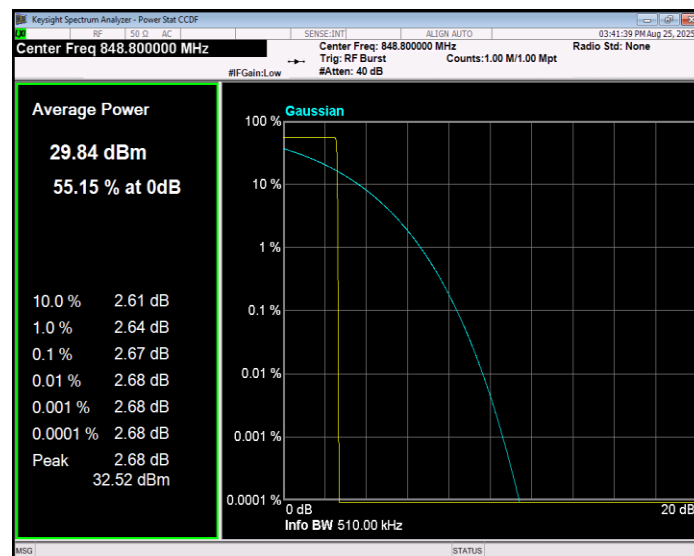
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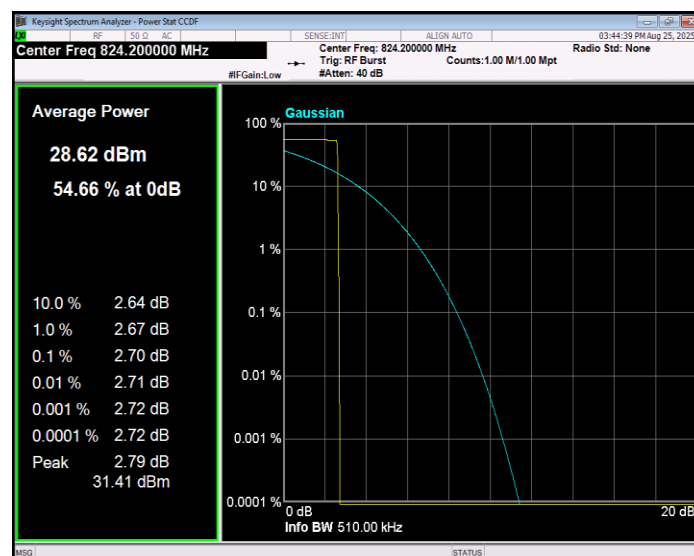
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GSM850 Channel=251



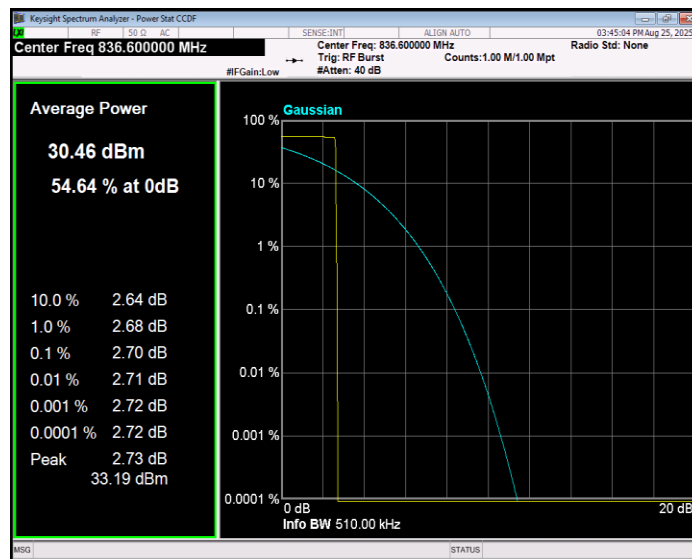
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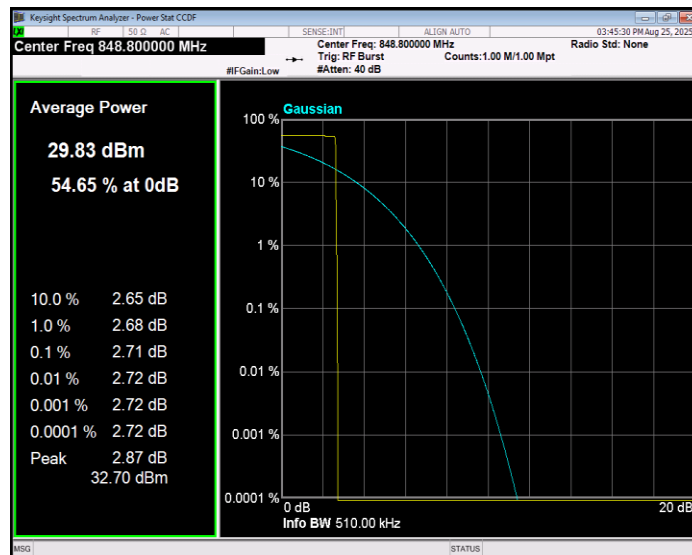


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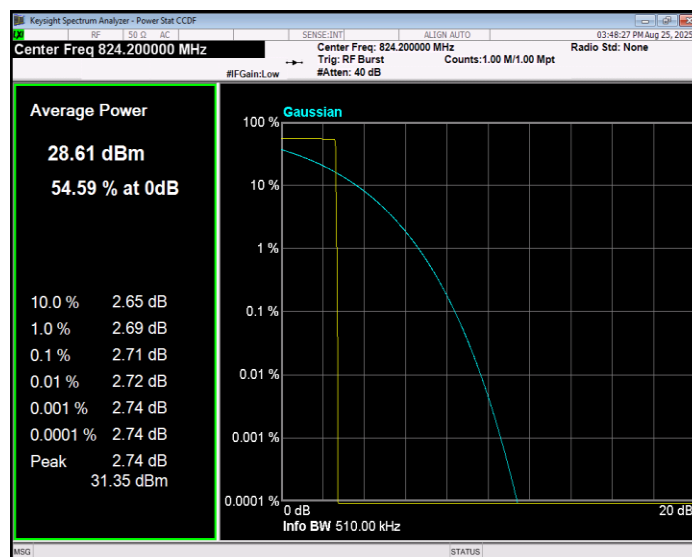
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GPRS850 Channel=251



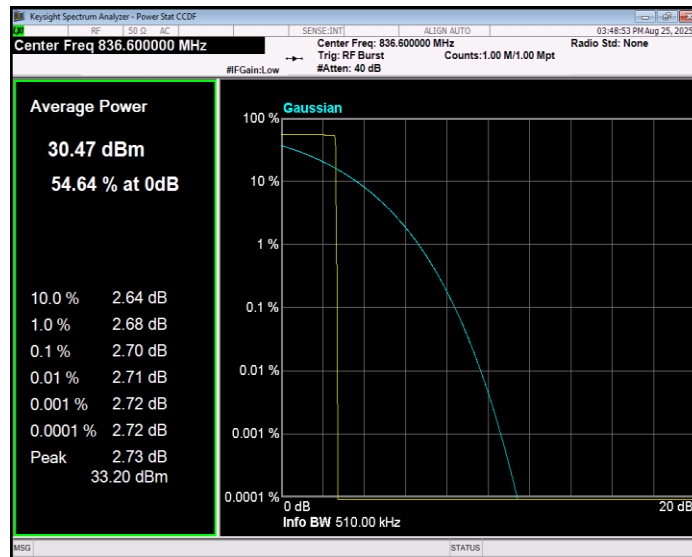
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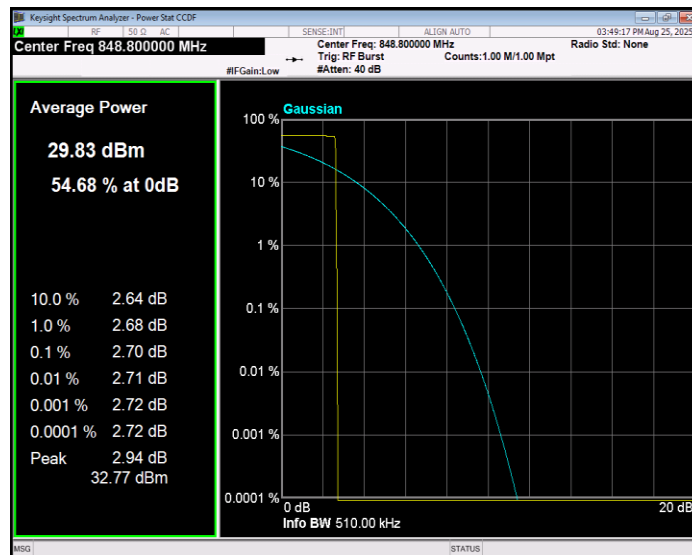


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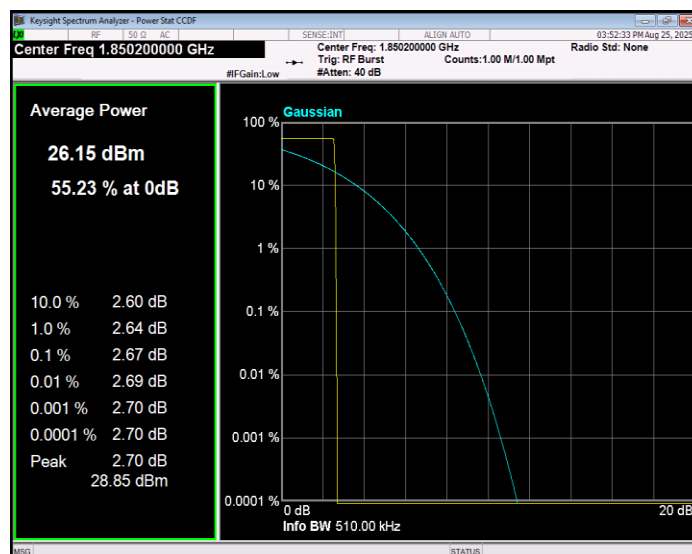
EGPRS850 Channel=190



EGPRS850 Channel=251



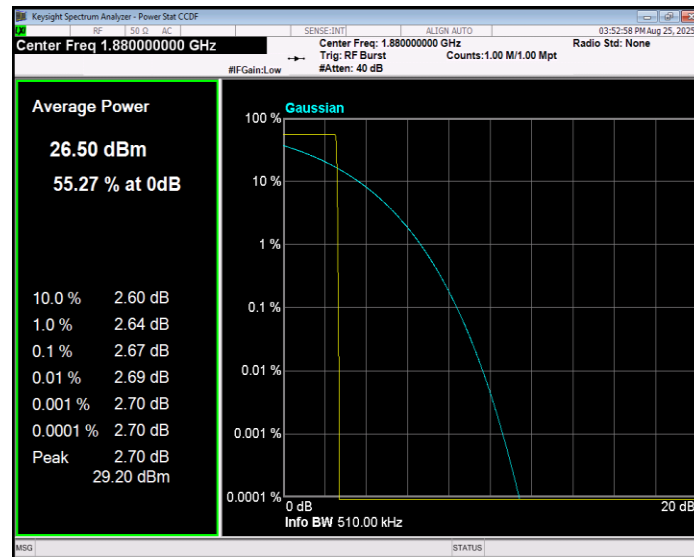
GSM1900 Channel=512



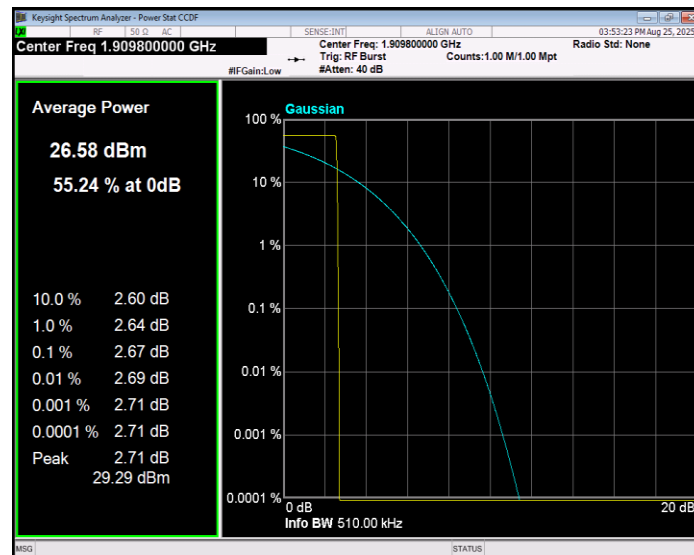


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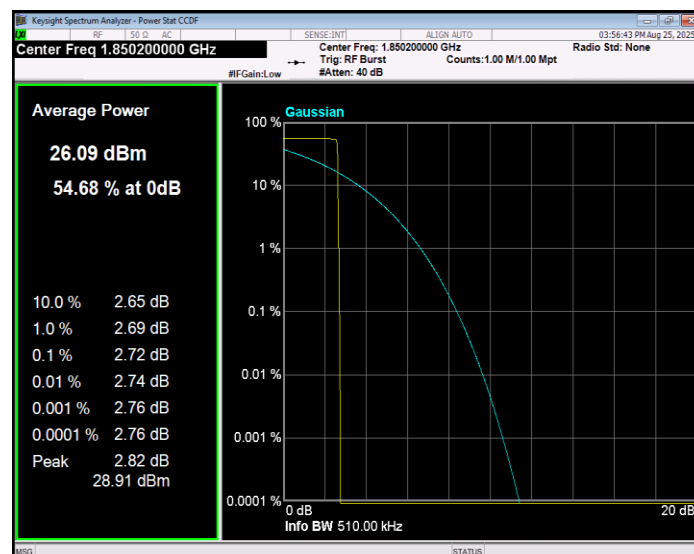
GSM1900 Channel=661



GSM1900 Channel=810



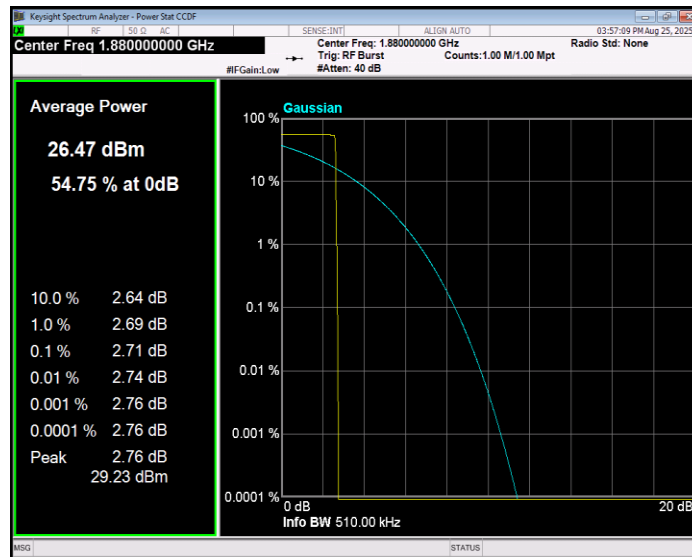
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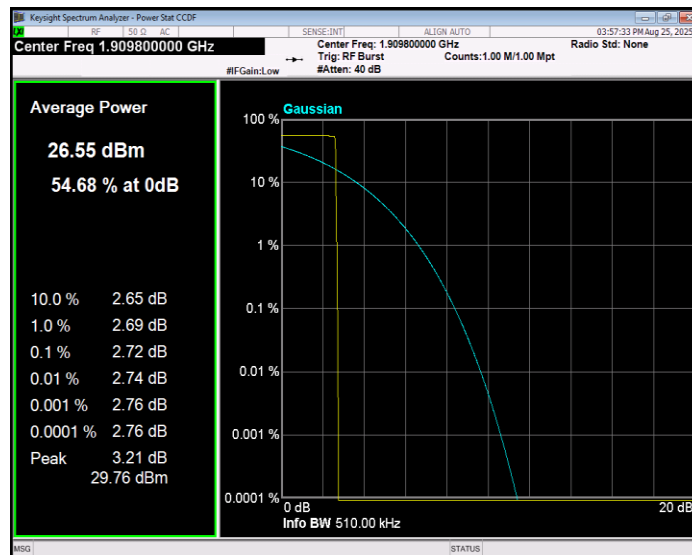


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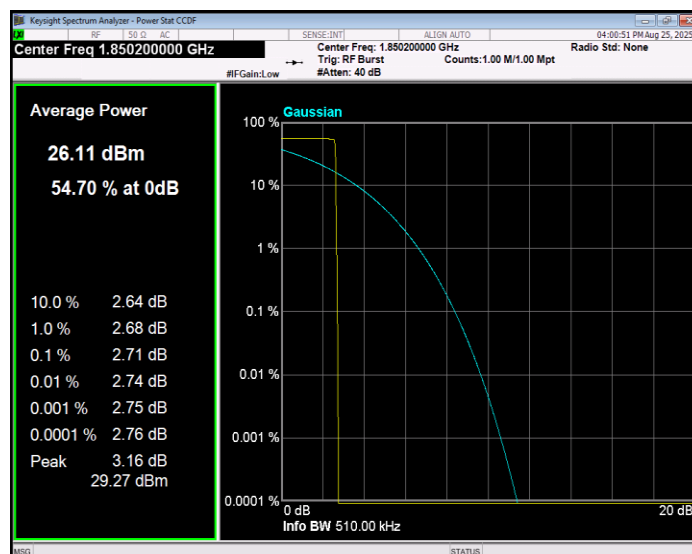
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GPRS1900 Channel=810



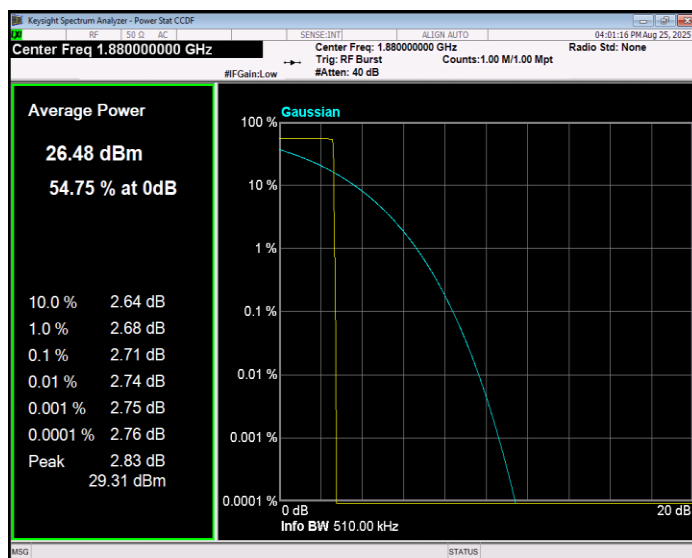
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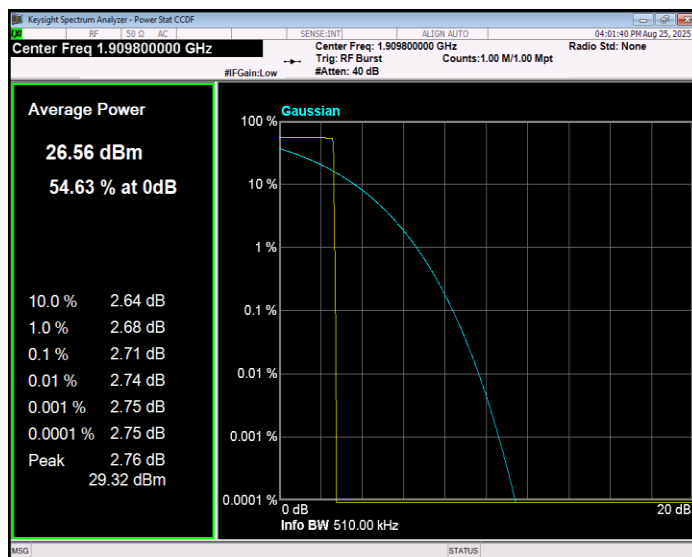


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EGPRS1900 Channel=661



EGPRS1900 Channel=810



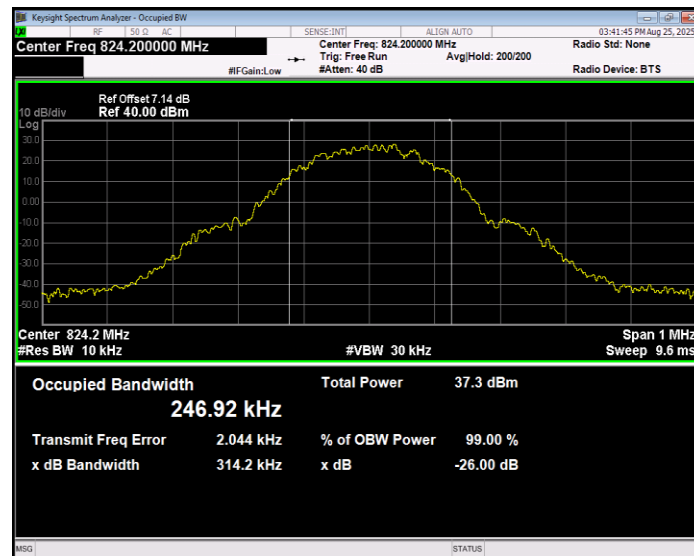


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	246.922	314.188	PASS
GSM850	190	836.6	247.368	323.553	PASS
GSM850	251	848.8	240.616	322.082	PASS
GPRS850	128	824.2	249.273	310.059	PASS
GPRS850	190	836.6	244.007	318.164	PASS
GPRS850	251	848.8	244.120	308.216	PASS
EGPRS850	128	824.2	248.347	313.884	PASS
EGPRS850	190	836.6	241.242	317.218	PASS
EGPRS850	251	848.8	237.512	314.979	PASS
GSM1900	512	1850.2	246.263	322.751	PASS
GSM1900	661	1880	249.533	319.120	PASS
GSM1900	810	1909.8	246.991	321.380	PASS
GPRS1900	512	1850.2	238.140	322.200	PASS
GPRS1900	661	1880	247.539	321.487	PASS
GPRS1900	810	1909.8	245.655	315.718	PASS
EGPRS1900	512	1850.2	249.926	321.965	PASS
EGPRS1900	661	1880	243.424	323.769	PASS
EGPRS1900	810	1909.8	247.846	319.447	PASS

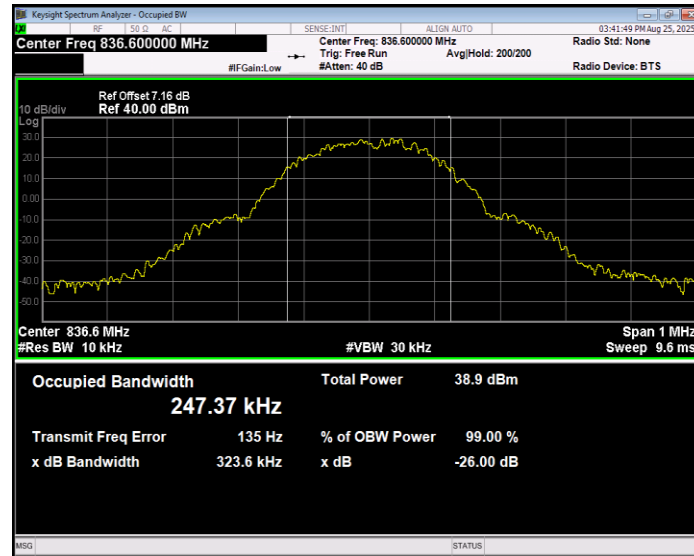
GSM850 Channel=128



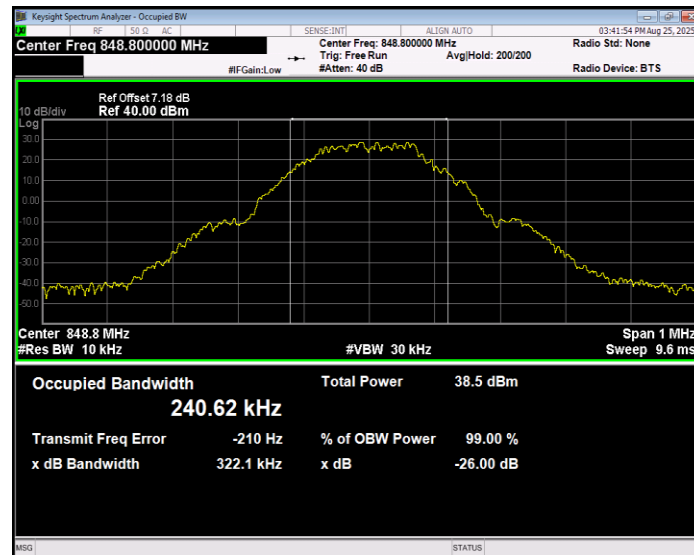
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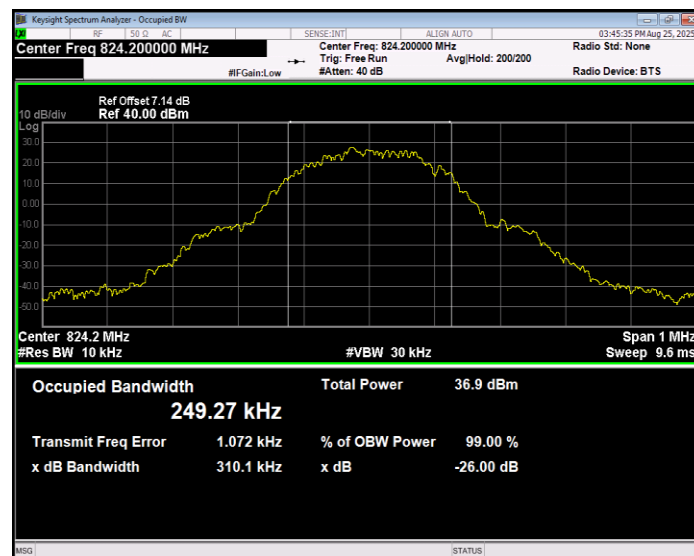
Report



GSM850 Channel=251



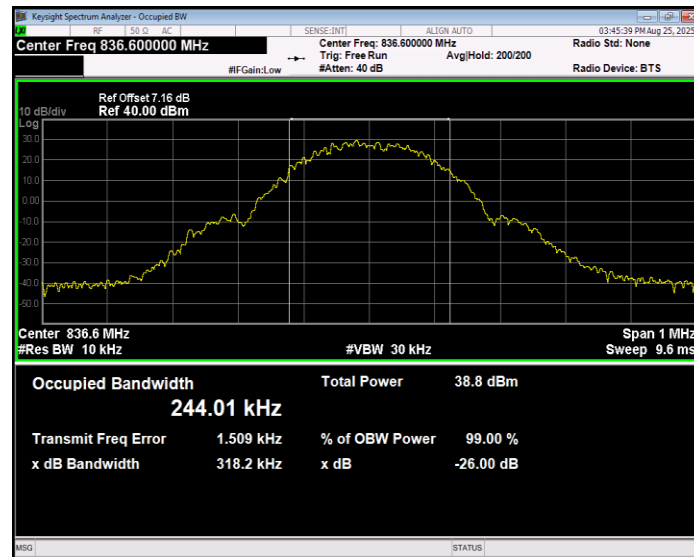
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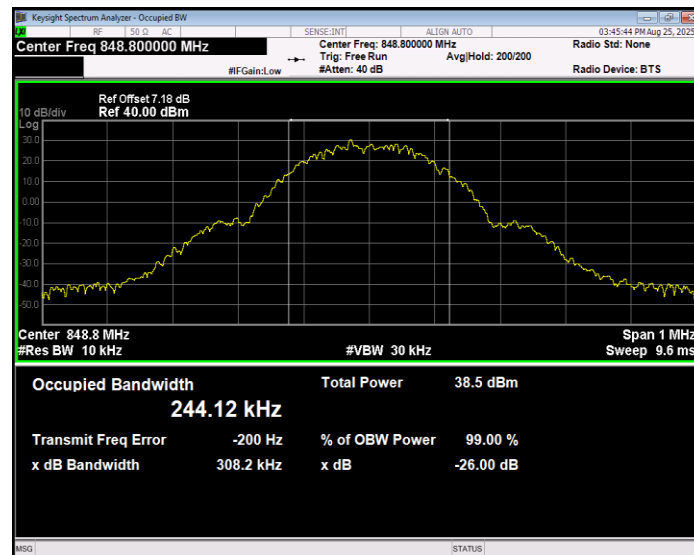


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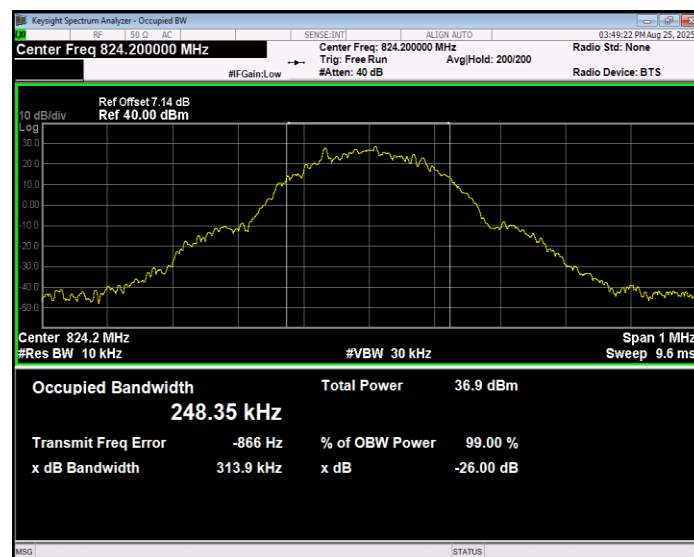
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GPRS850 Channel=251



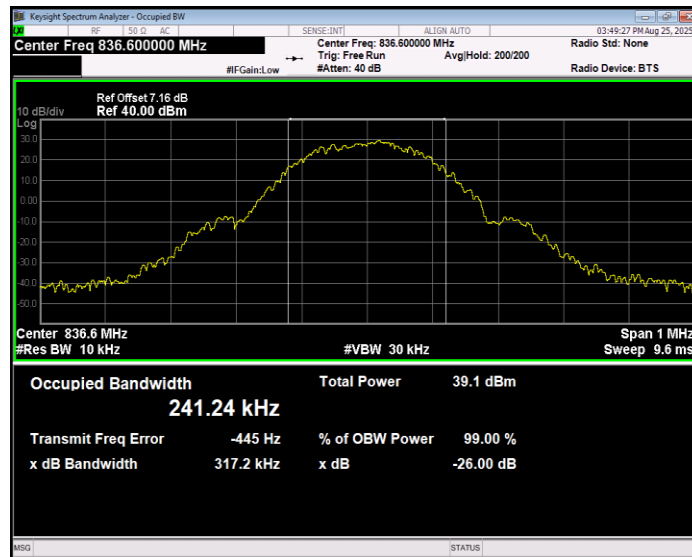
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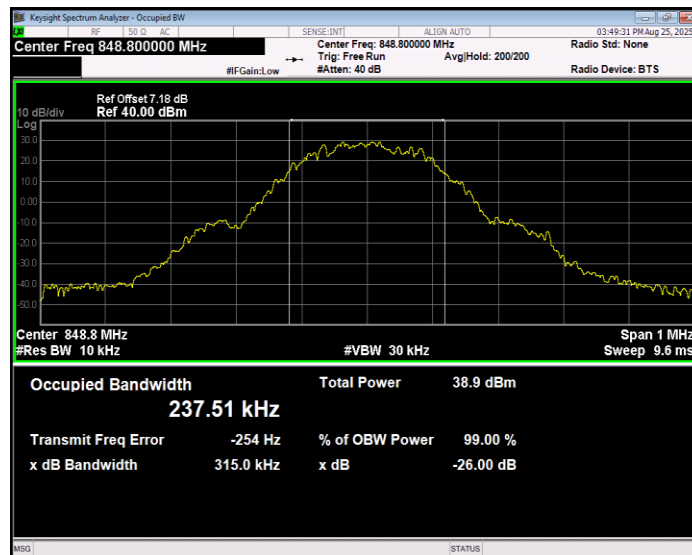


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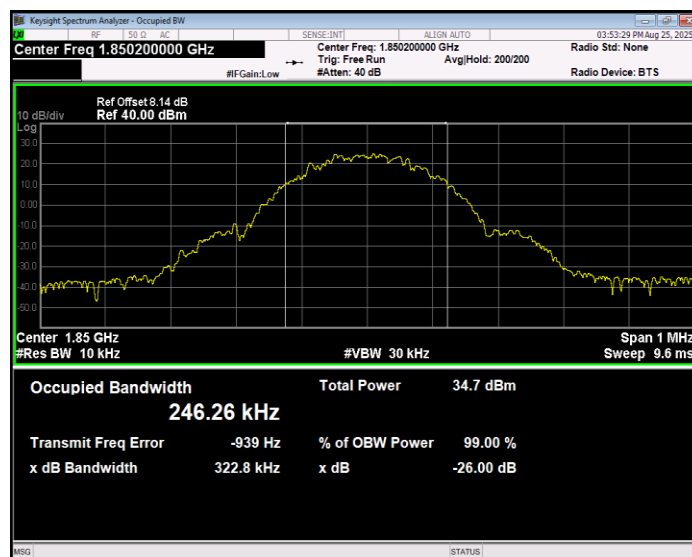
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EGPRS850 Channel=251



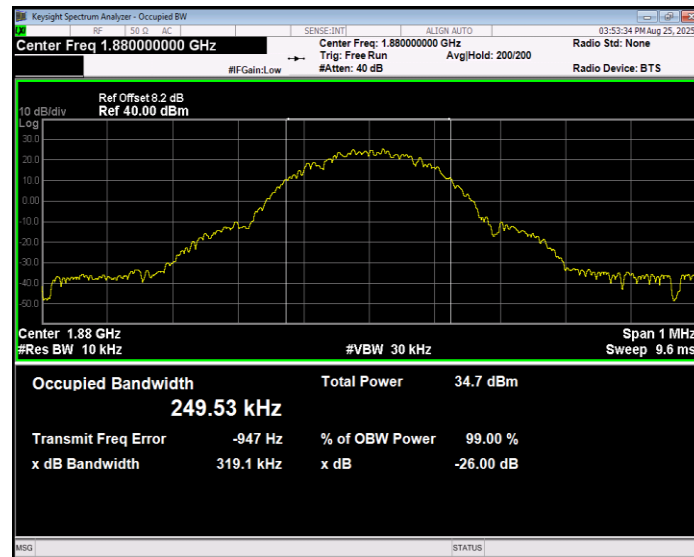
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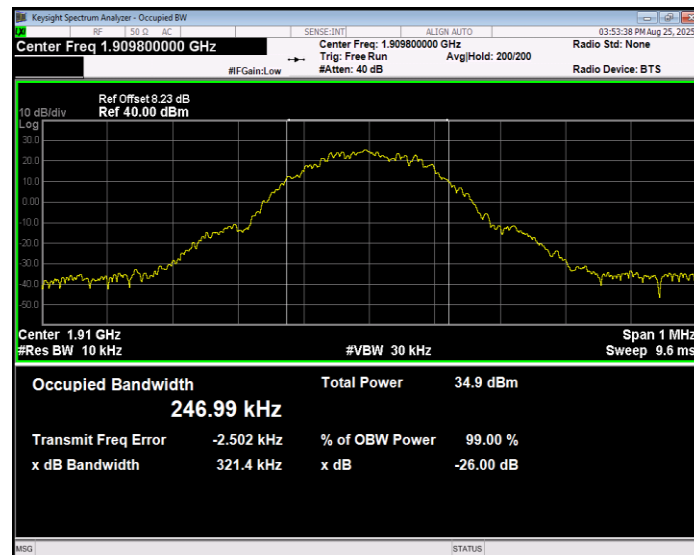


Report

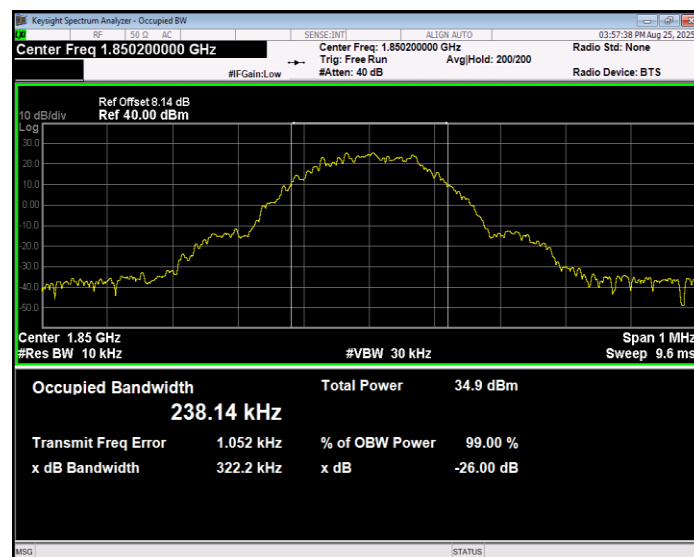
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GSM1900 Channel=810



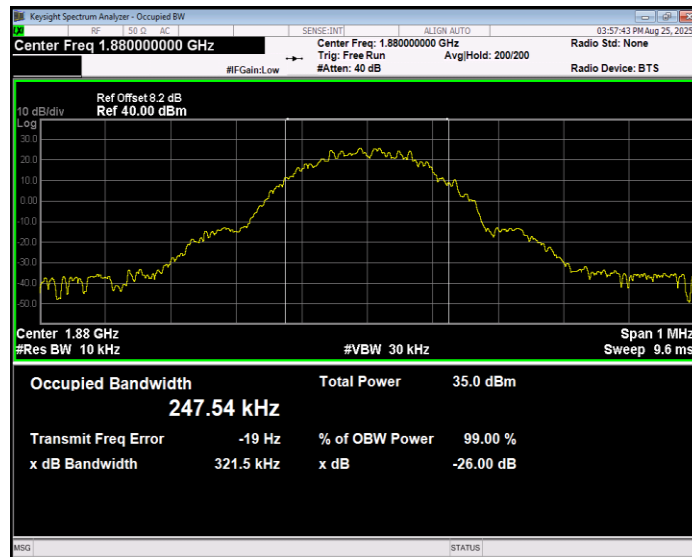
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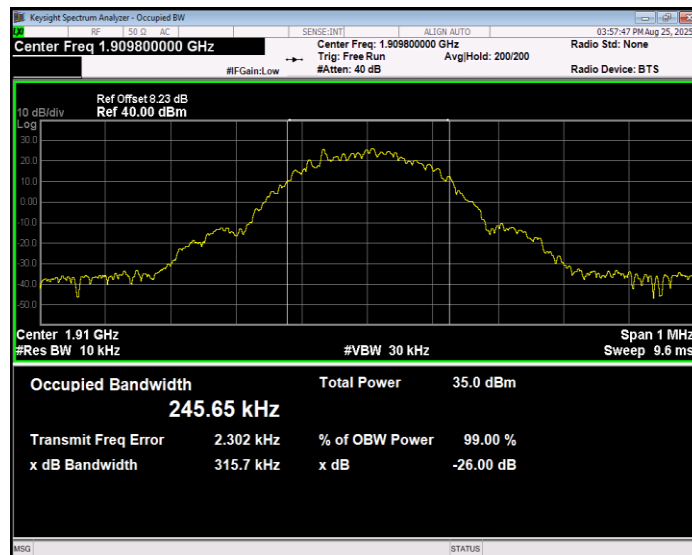


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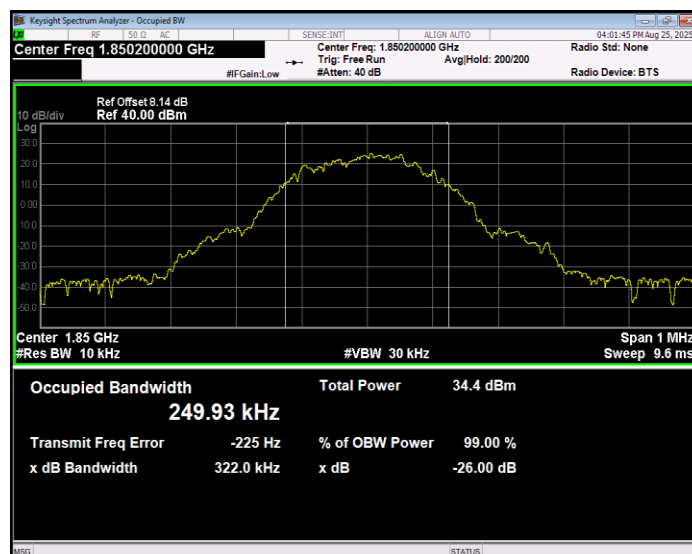
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GPRS1900 Channel=810



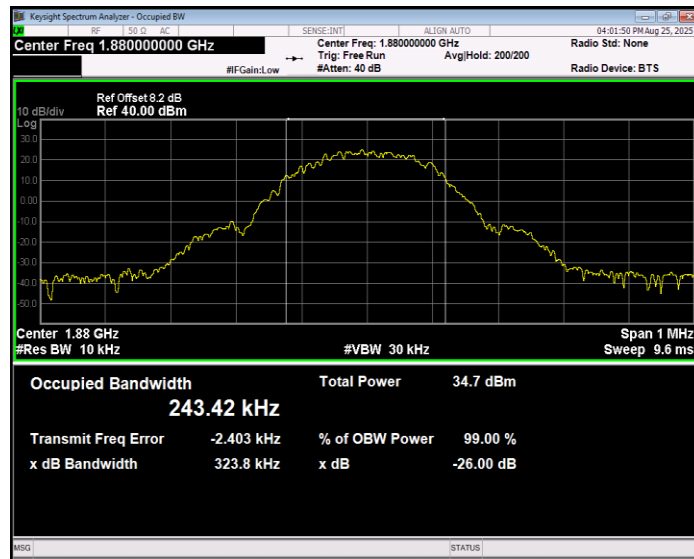
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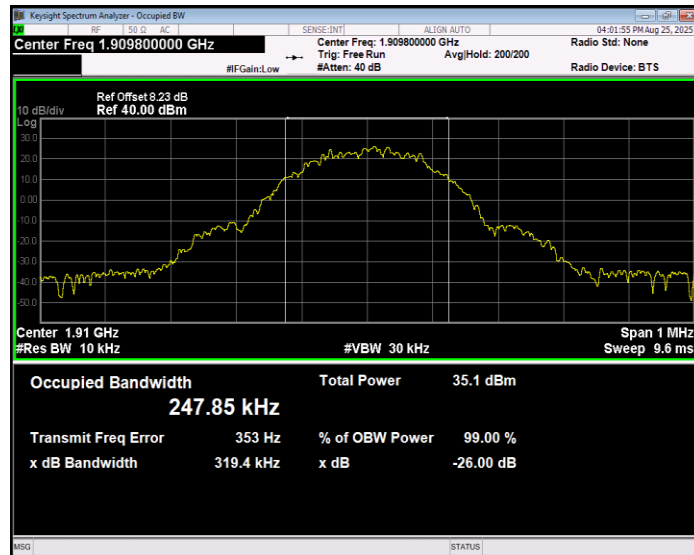


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



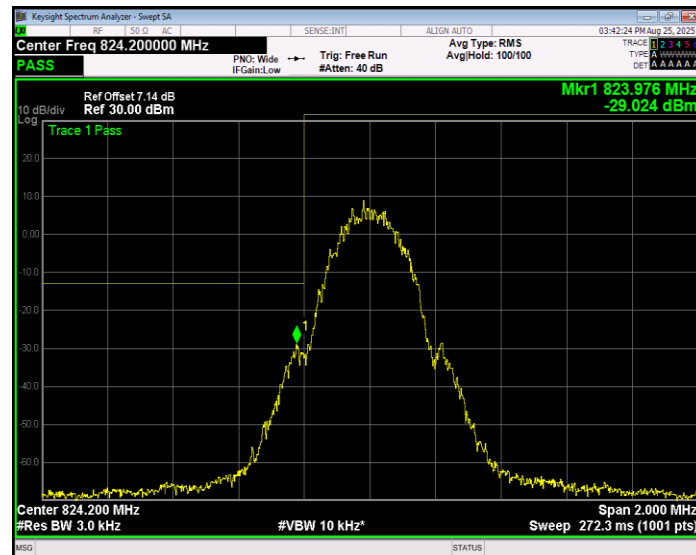


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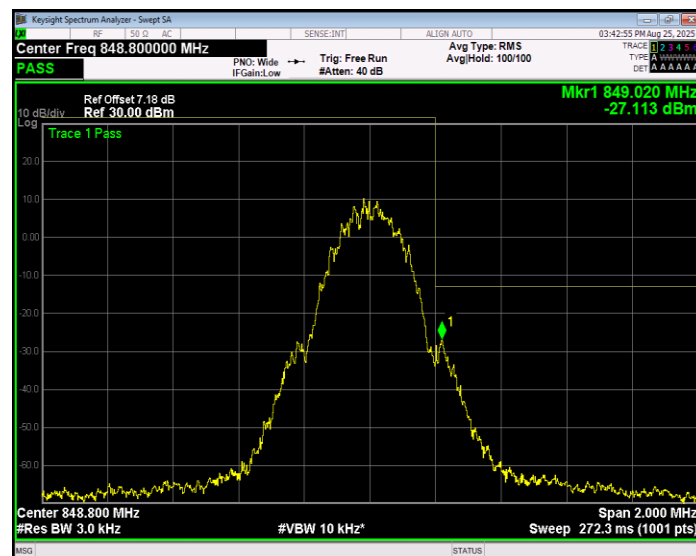
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	823.98	-29.02	-13	PASS
GSM850	251	848.8	849.02	-27.11	-13	PASS
GPRS850	128	824.2	823.99	-29.25	-13	PASS
GPRS850	251	848.8	849.01	-28.73	-13	PASS
EGPRS850	128	824.2	823.98	-29.53	-13	PASS
EGPRS850	251	848.8	849.02	-28.43	-13	PASS
GSM1900	512	1850.2	1849.98	-31.14	-13	PASS
GSM1900	810	1909.8	1910.02	-29.01	-13	PASS
GPRS1900	512	1850.2	1849.98	-31.43	-13	PASS
GPRS1900	810	1909.8	1910.02	-30.75	-13	PASS
EGPRS1900	512	1850.2	1849.98	-31.36	-13	PASS
EGPRS1900	810	1909.8	1910.02	-30.66	-13	PASS

GSM850 Channel=128



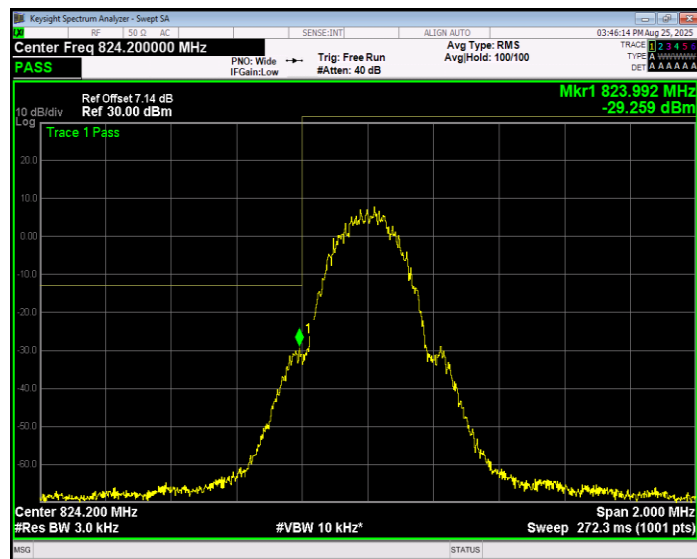
GSM850 Channel=251



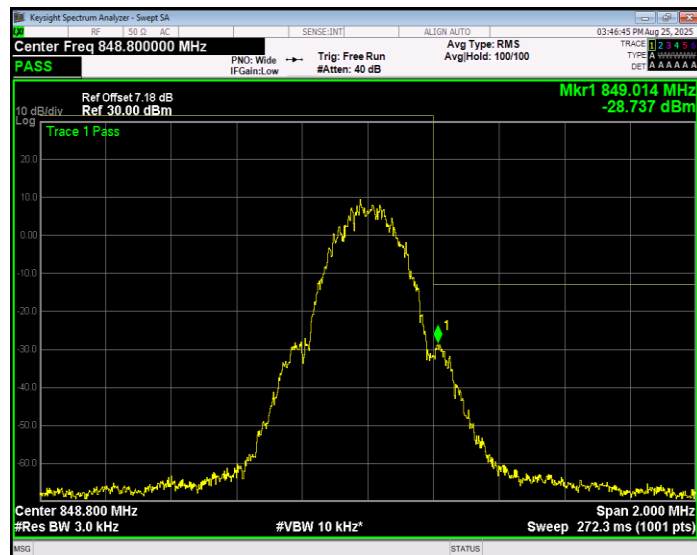


Report

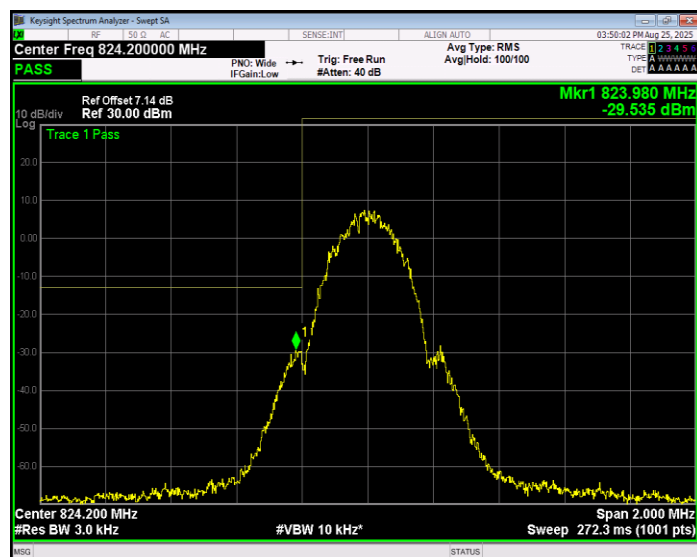
GPRS850 Channel=128



GPRS850 Channel=251



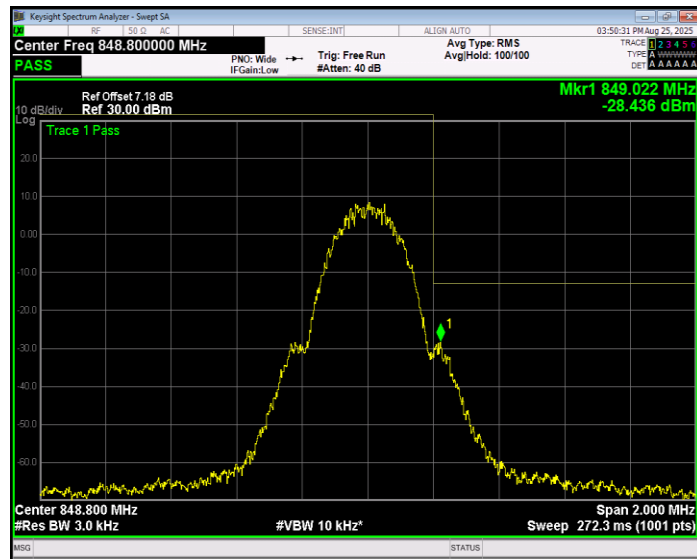
EGPRS850 Channel=128



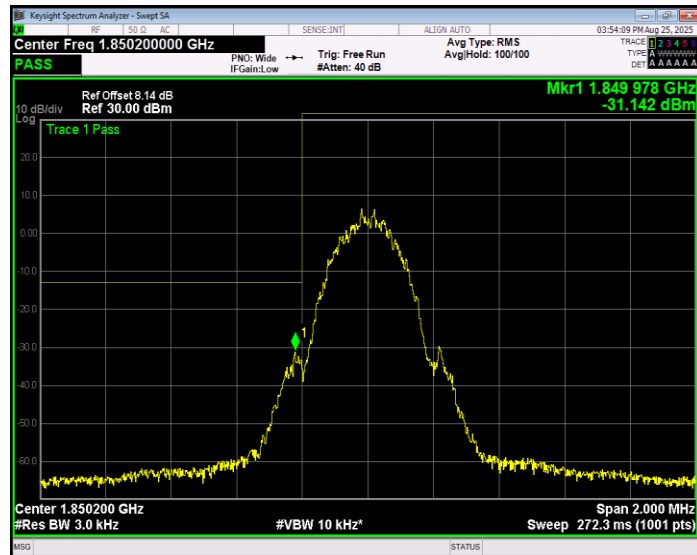


Report

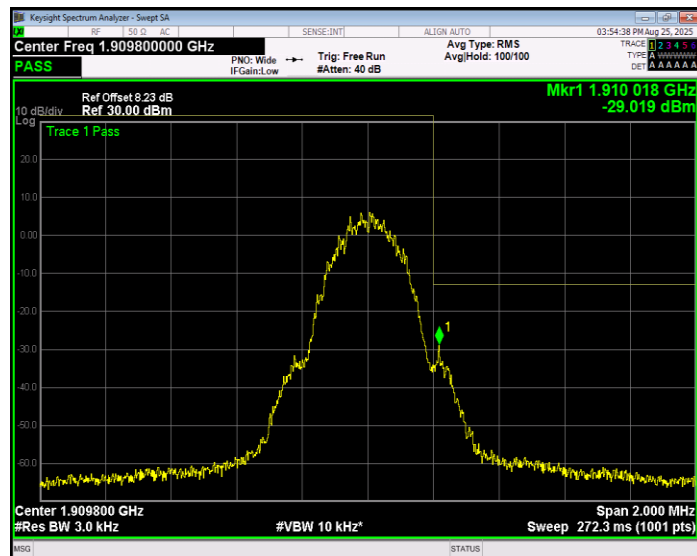
EGPRS850 Channel=251



GSM1900 Channel=512



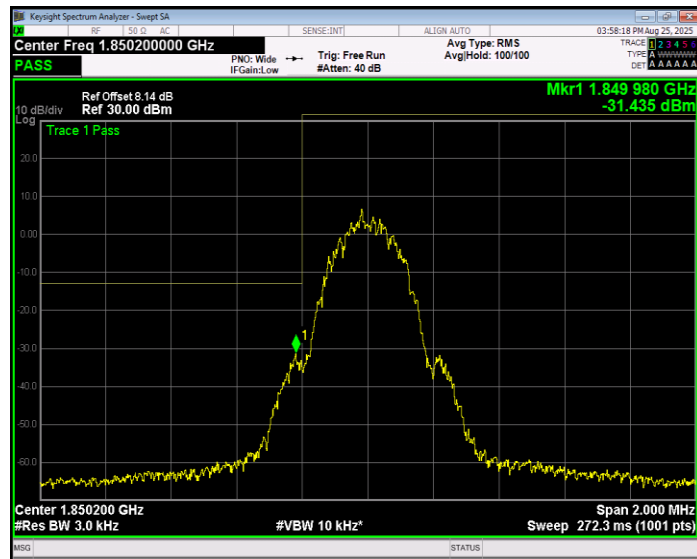
GSM1900 Channel=810



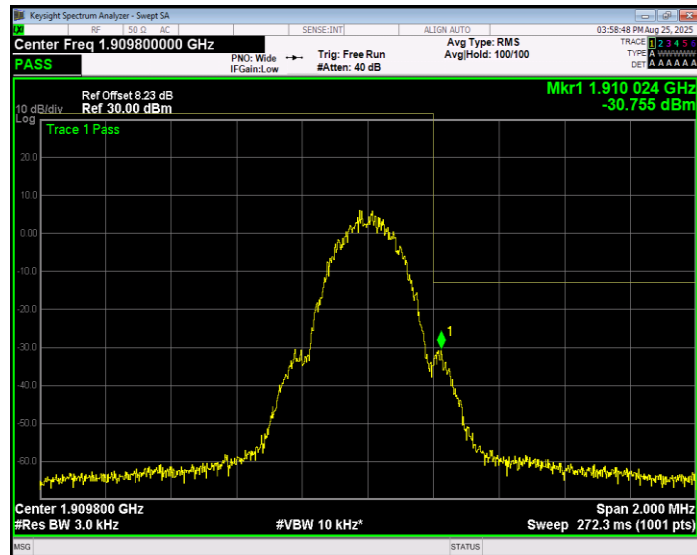


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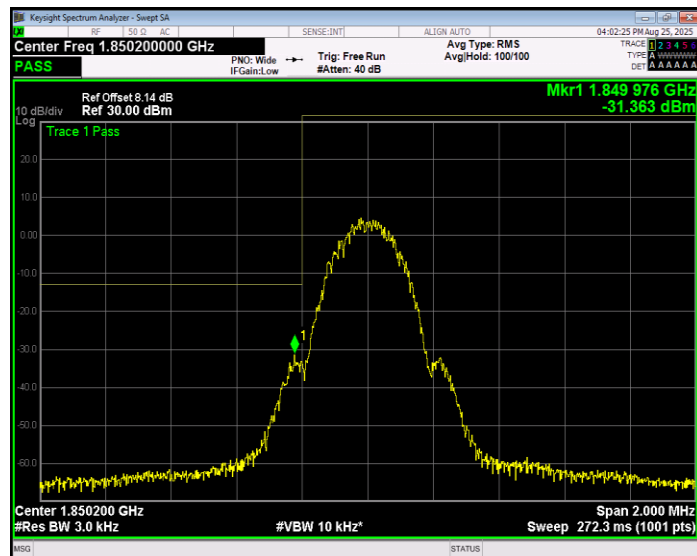
GPRS1900 Channel=512



GPRS1900 Channel=810



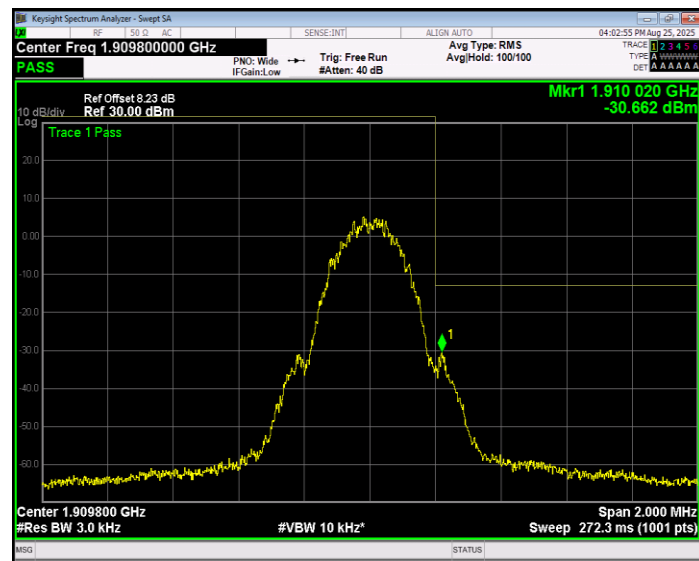
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



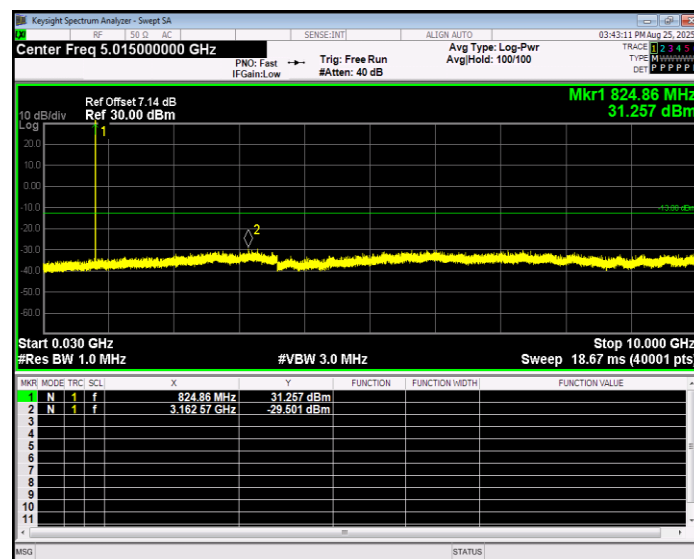


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	3162.57	-29.50	-13	PASS
GSM850	190	836.6	3311.38	-29.81	-13	PASS
GSM850	251	848.8	7416.77	-29.50	-13	PASS
GPRS850	128	824.2	3332.31	-29.45	-13	PASS
GPRS850	190	836.6	7688.70	-29.92	-13	PASS
GPRS850	251	848.8	6001.03	-29.97	-13	PASS
EGPRS850	128	824.2	5960.41	-29.67	-13	PASS
EGPRS850	190	836.6	3137.90	-29.82	-13	PASS
EGPRS850	251	848.8	6015.99	-29.92	-13	PASS
GSM1900	512	1850.2	18899.15	-22.60	-13	PASS
GSM1900	661	1880	16769.85	-22.68	-13	PASS
GSM1900	810	1909.8	19693.46	-22.51	-13	PASS
GPRS1900	512	1850.2	19991.01	-23.13	-13	PASS
GPRS1900	661	1880	16414.39	-22.91	-13	PASS
GPRS1900	810	1909.8	19657.51	-22.89	-13	PASS
EGPRS1900	512	1850.2	19684.47	-22.99	-13	PASS
EGPRS1900	661	1880	19664.00	-22.87	-13	PASS
EGPRS1900	810	1909.8	19655.02	-23.02	-13	PASS

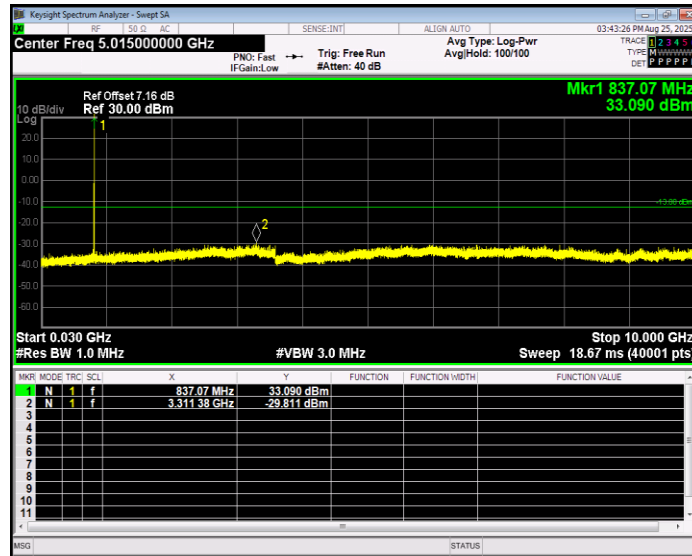
GSM850 Channel=128



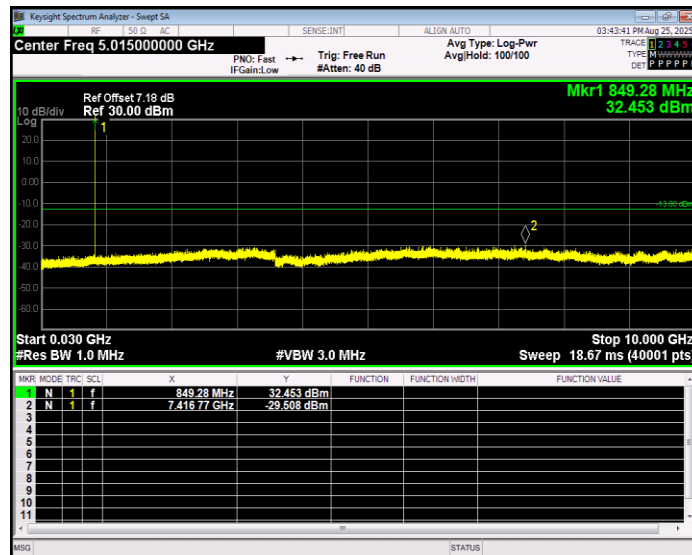
GSM850 Channel=190



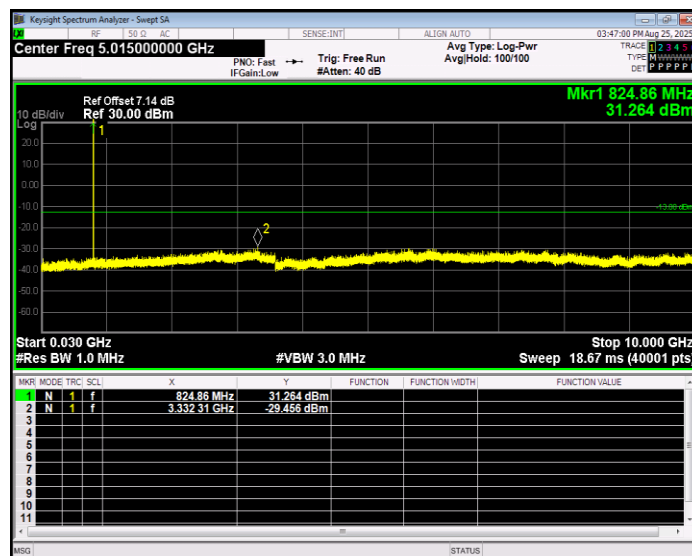
Report



GSM850 Channel=251



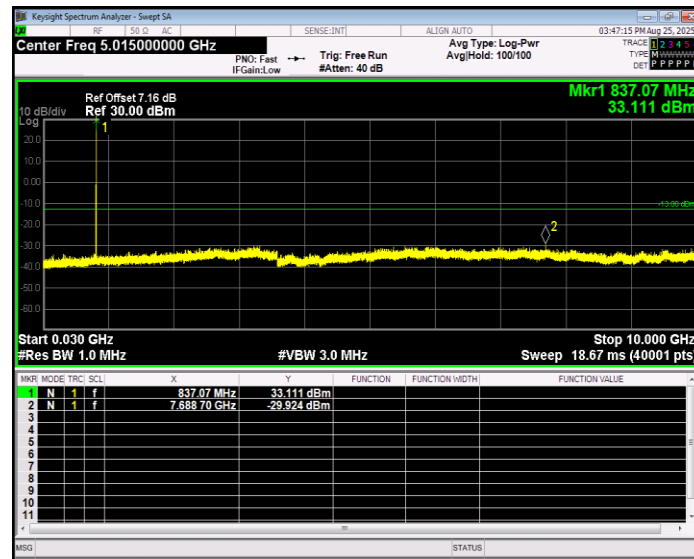
GPRS850 Channel=128



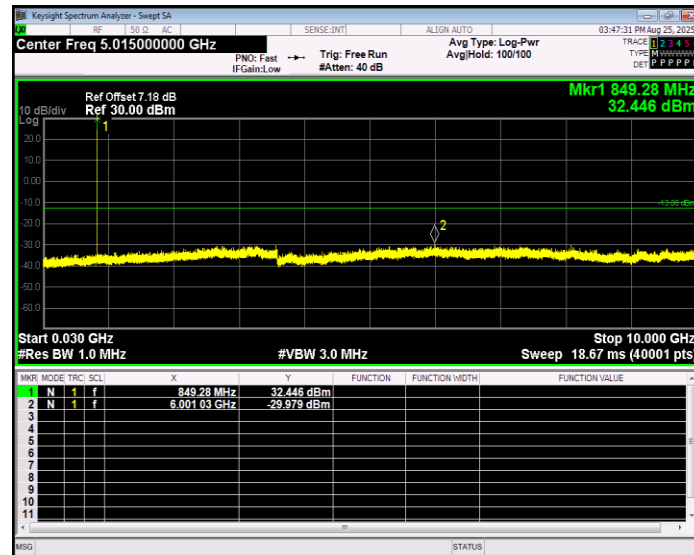


Report

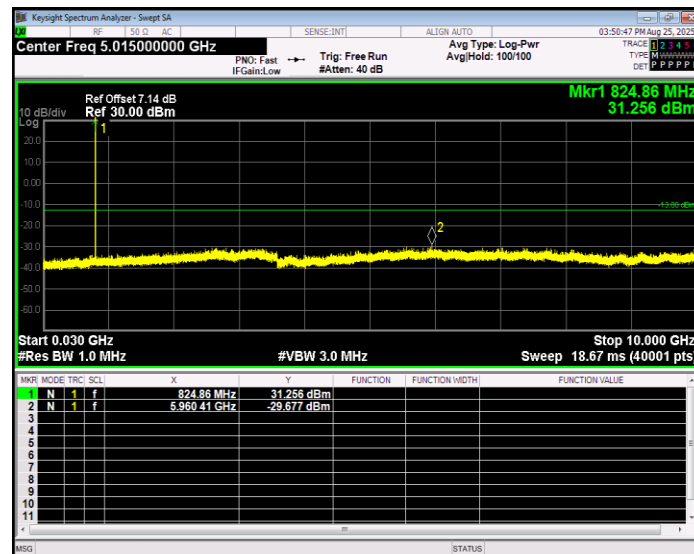
GPRS850 Channel=190



GPRS850 Channel=251



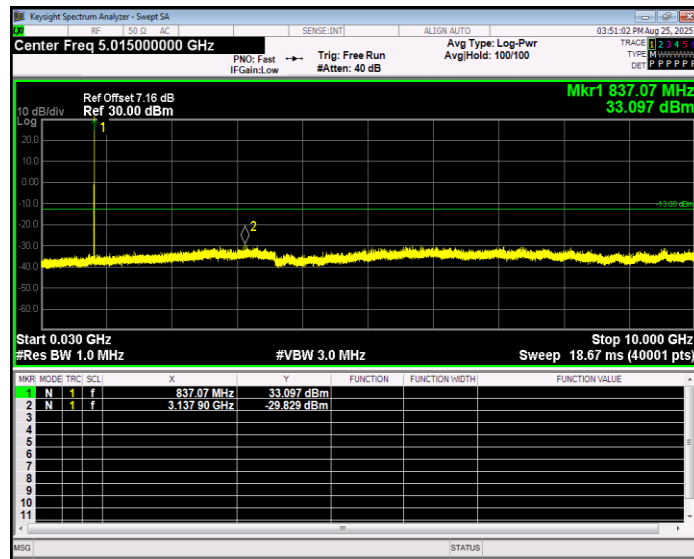
EGPRS850 Channel=128



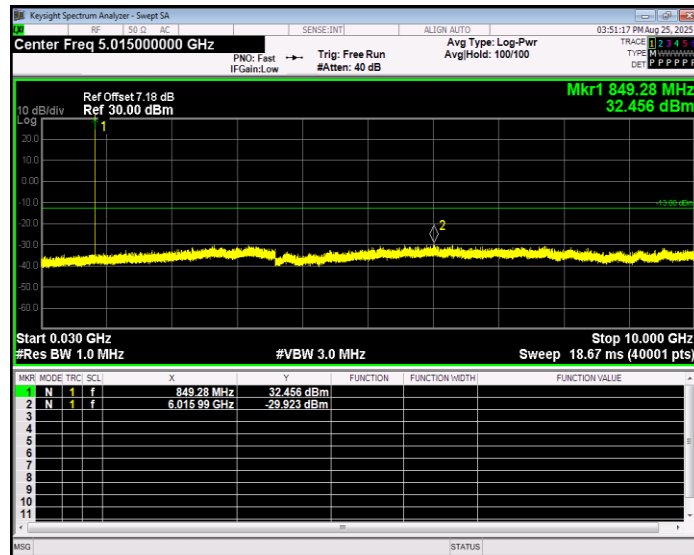


Report

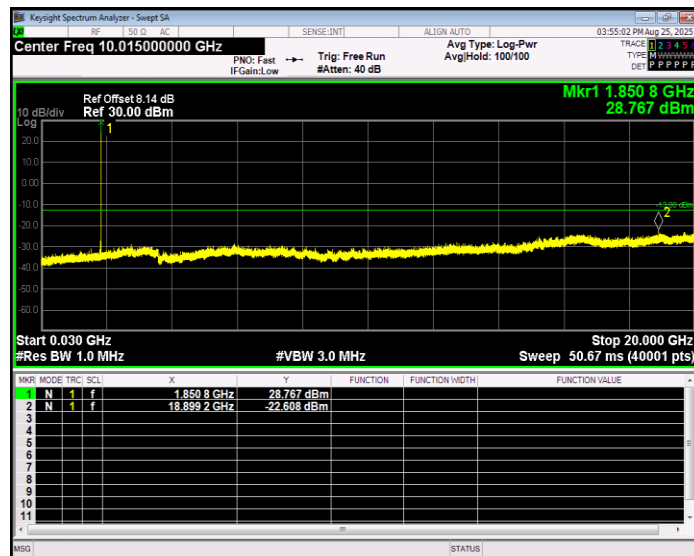
EGPRS850 Channel=190



EGPRS850 Channel=251



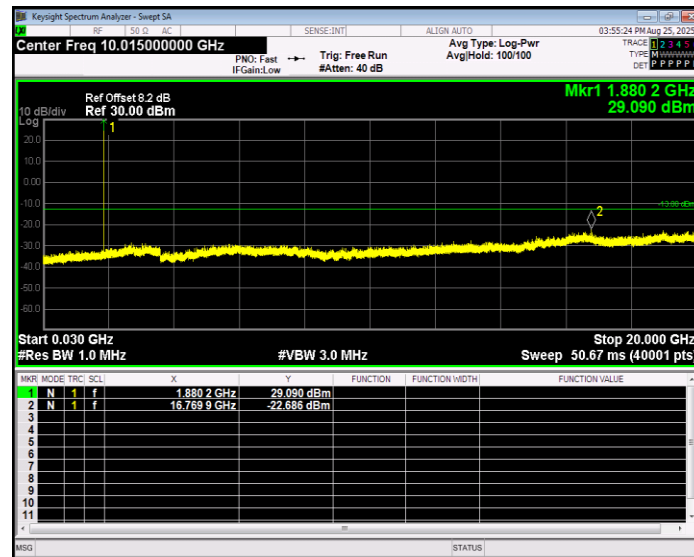
GSM1900 Channel=512



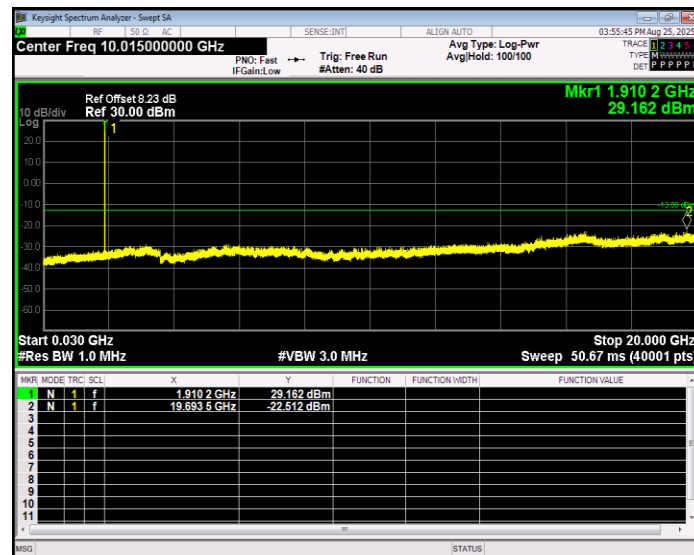


Report

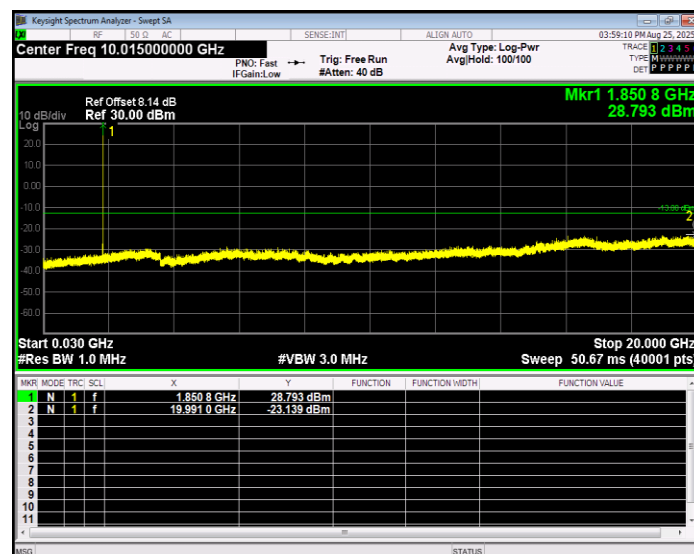
GSM1900 Channel=661



GSM1900 Channel=810



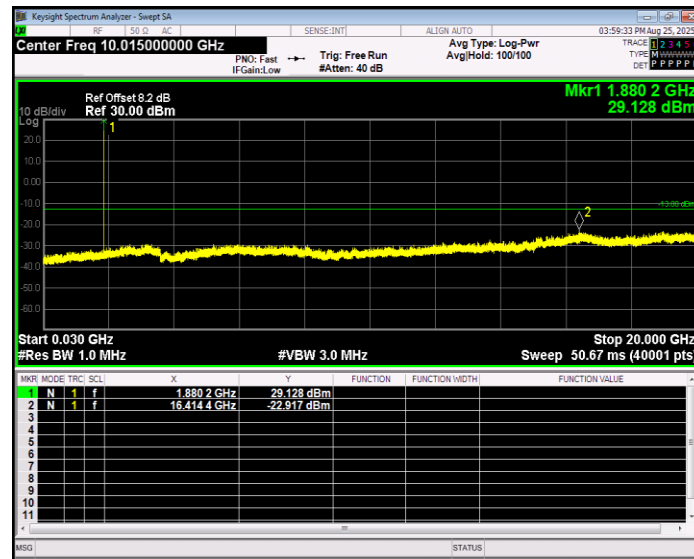
GPRS1900 Channel=512



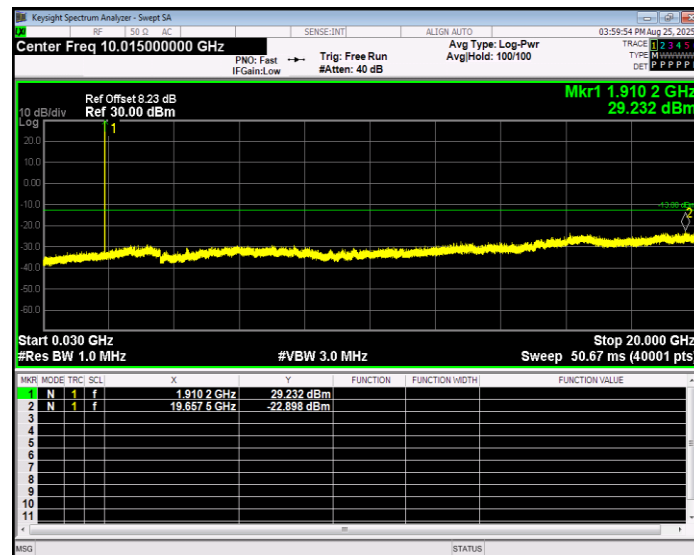


Report

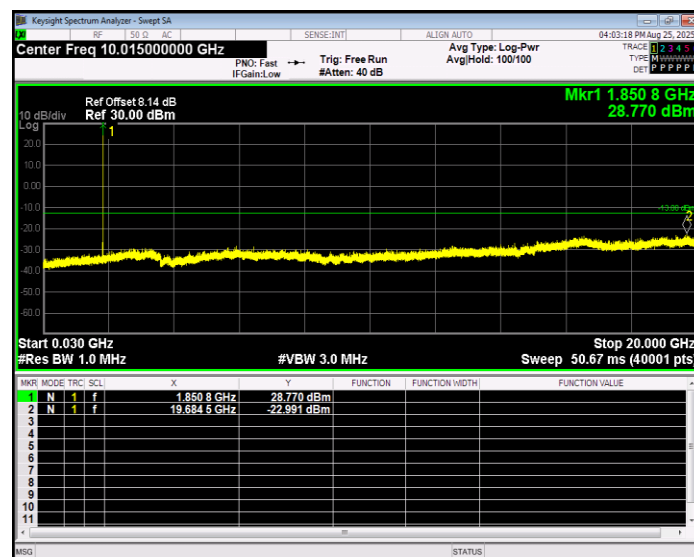
GPRS1900 Channel=661



GPRS1900 Channel=810



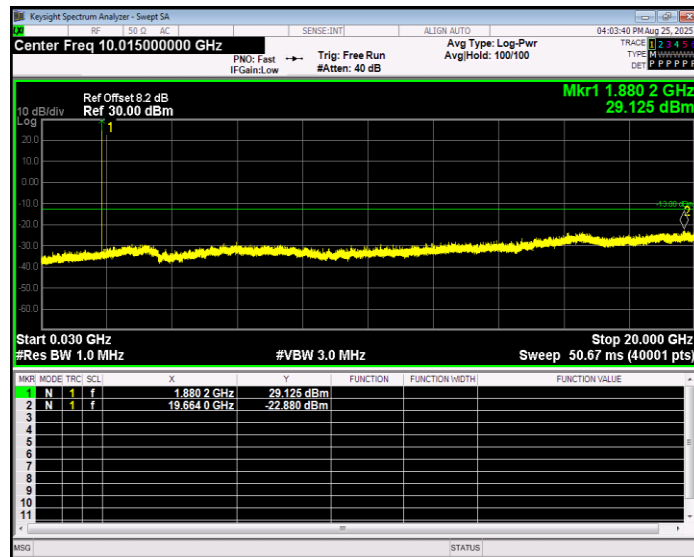
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

