



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	33.00	1.74	32.59	38.45	PASS
GSM850	190	836.6	32.45	1.74	32.04	38.45	PASS
GSM850	251	848.8	32.71	1.74	32.30	38.45	PASS
GPRS850 1 Slot	128	824.2	32.84	1.74	32.43	38.45	PASS
GPRS850 1 Slot	190	836.6	32.24	1.74	31.83	38.45	PASS
GPRS850 1 Slot	251	848.8	32.49	1.74	32.08	38.45	PASS
GPRS850 2 Slot	128	824.2	32.31	1.74	31.90	38.45	PASS
GPRS850 2 Slot	190	836.6	31.81	1.74	31.40	38.45	PASS
GPRS850 2 Slot	251	848.8	31.99	1.74	31.58	38.45	PASS
GPRS850 3 Slot	128	824.2	30.93	1.74	30.52	38.45	PASS
GPRS850 3 Slot	190	836.6	30.55	1.74	30.14	38.45	PASS
GPRS850 3 Slot	251	848.8	30.57	1.74	30.16	38.45	PASS
GPRS850 4 Slot	128	824.2	29.98	1.74	29.57	38.45	PASS
GPRS850 4 Slot	190	836.6	29.69	1.74	29.28	38.45	PASS
GPRS850 4 Slot	251	848.8	29.65	1.74	29.24	38.45	PASS
EGPRS850 1 Slot	128	824.2	27.92	1.74	27.51	38.45	PASS
EGPRS850 1 Slot	190	836.6	27.32	1.74	26.91	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.75	1.74	27.34	38.45	PASS
EGPRS850 2 Slot	128	824.2	26.73	1.74	26.32	38.45	PASS
EGPRS850 2 Slot	190	836.6	26.70	1.74	26.29	38.45	PASS
EGPRS850 2 Slot	251	848.8	26.44	1.74	26.03	38.45	PASS
EGPRS850 3 Slot	128	824.2	24.81	1.74	24.40	38.45	PASS
EGPRS850 3 Slot	190	836.6	24.39	1.74	23.98	38.45	PASS
EGPRS850 3 Slot	251	848.8	24.75	1.74	24.34	38.45	PASS
EGPRS850 4 Slot	128	824.2	23.87	1.74	23.46	38.45	PASS
EGPRS850 4 Slot	190	836.6	23.41	1.74	23.00	38.45	PASS
EGPRS850 4 Slot	251	848.8	23.22	1.74	22.81	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	30.49	1.58	32.07	33.01	PASS
GSM1900	661	1880	30.75	1.58	32.33	33.01	PASS
GSM1900	810	1909.8	30.54	1.58	32.12	33.01	PASS
GPRS1900 1 Slot	512	1850.2	30.42	1.58	32.00	33.01	PASS
GPRS1900 1 Slot	661	1880	30.73	1.58	32.31	33.01	PASS
GPRS1900 1 Slot	810	1909.8	30.48	1.58	32.06	33.01	PASS
GPRS1900 2 Slot	512	1850.2	29.76	1.58	31.34	33.01	PASS
GPRS1900 2 Slot	661	1880	30.13	1.58	31.71	33.01	PASS
GPRS1900 2 Slot	810	1909.8	30.00	1.58	31.58	33.01	PASS
GPRS1900 3 Slot	512	1850.2	28.15	1.58	29.73	33.01	PASS
GPRS1900 3 Slot	661	1880	28.59	1.58	30.17	33.01	PASS
GPRS1900 3 Slot	810	1909.8	28.64	1.58	30.22	33.01	PASS
GPRS1900 4 Slot	512	1850.2	27.08	1.58	28.66	33.01	PASS
GPRS1900 4 Slot	661	1880	27.56	1.58	29.14	33.01	PASS
GPRS1900 4 Slot	810	1909.8	27.65	1.58	29.23	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	26.98	1.58	28.56	33.01	PASS
EGPRS1900 1 Slot	661	1880	27.24	1.58	28.82	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	27.28	1.58	28.86	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	25.64	1.58	27.22	33.01	PASS
EGPRS1900 2 Slot	661	1880	26.42	1.58	28.00	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	26.33	1.58	27.91	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	23.66	1.58	25.24	33.01	PASS
EGPRS1900 3 Slot	661	1880	24.32	1.58	25.90	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	24.60	1.58	26.18	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	22.85	1.58	24.43	33.01	PASS
EGPRS1900 4 Slot	661	1880	23.49	1.58	25.07	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	23.34	1.58	24.92	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	-3.92	-0.005	2.5ppm	PASS
40		3.86	0.005		
30		-4.01	-0.005		
20		5.97	0.007		
10		3.52	0.004		
0		-4.04	-0.005		
-10		3.95	0.005		
-20		3.74	0.004		
-30		-3.61	-0.004		
20	Maximum Voltage	-3.60	-0.004	2.5ppm	PASS
20	BEP	3.85	0.005		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	4.88	0.006	2.5ppm	PASS
40		4.65	0.006		
30		4.66	0.006		
20		7.78	0.009		
10		-4.84	-0.006		
0		-4.81	-0.006		
-10		4.52	0.005		
-20		-4.67	-0.006		
-30		4.44	0.005		
20	Maximum Voltage	4.88	0.006	2.5ppm	PASS
20	BEP	-4.58	-0.005		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-4.58	-0.005	2.5ppm	PASS
40		4.79	0.006		
30		-4.77	-0.006		
20		7.62	0.009		
10		-4.79	-0.006		
0		4.70	0.006		
-10		-4.34	-0.005		
-20		4.50	0.005		
-30		4.86	0.006		
20	Maximum Voltage	4.56	0.005		
20	BEP	-4.77	-0.006		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-6.65	-0.004	Within Authorized Band	PASS
40		-6.92	-0.004		
30		6.90	0.004		
20		12.07	0.006		
10		7.03	0.004		
0		6.91	0.004		
-10		7.09	0.004		
-20		-7.05	-0.004		
-30		-6.92	-0.004		
20	Maximum Voltage	6.93	0.004		
20	BEP	-6.72	-0.004		



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GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-5.34	-0.003	Within Authorized Band	PASS
40		5.63	0.003		
30		5.66	0.003		
20		9.23	0.005		
10		5.50	0.003		
0		-5.58	-0.003		
-10		-5.20	-0.003		
-20		5.71	0.003		
-30		-5.54	-0.003		
20	Maximum Voltage	-5.28	-0.003		
20	BEP	5.66	0.003		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-6.27	-0.003	Within Authorized Band	PASS
40		-6.64	-0.004		
30		-6.83	-0.004		
20		11.46	0.006		
10		6.61	0.004		
0		6.37	0.003		
-10		6.63	0.004		
-20		6.27	0.003		
-30		6.81	0.004		
20	Maximum Voltage	6.50	0.003		
20	BEP	6.61	0.004		

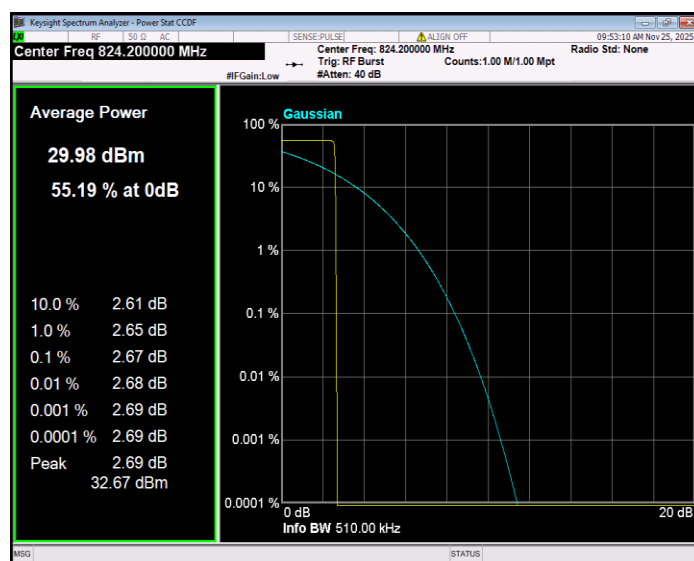


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.67	13	PASS
GSM850	190	836.6	2.66	13	PASS
GSM850	251	848.8	2.67	13	PASS
GPRS850	128	824.2	2.69	13	PASS
GPRS850	190	836.6	2.70	13	PASS
GPRS850	251	848.8	2.70	13	PASS
EGPRS850	128	824.2	8.19	13	PASS
EGPRS850	190	836.6	7.04	13	PASS
EGPRS850	251	848.8	7.79	13	PASS
GSM1900	512	1850.2	2.72	13	PASS
GSM1900	661	1880	2.67	13	PASS
GSM1900	810	1909.8	2.65	13	PASS
GPRS1900	512	1850.2	2.76	13	PASS
GPRS1900	661	1880	2.70	13	PASS
GPRS1900	810	1909.8	2.69	13	PASS
EGPRS1900	512	1850.2	6.74	13	PASS
EGPRS1900	661	1880	6.41	13	PASS
EGPRS1900	810	1909.8	6.33	13	PASS

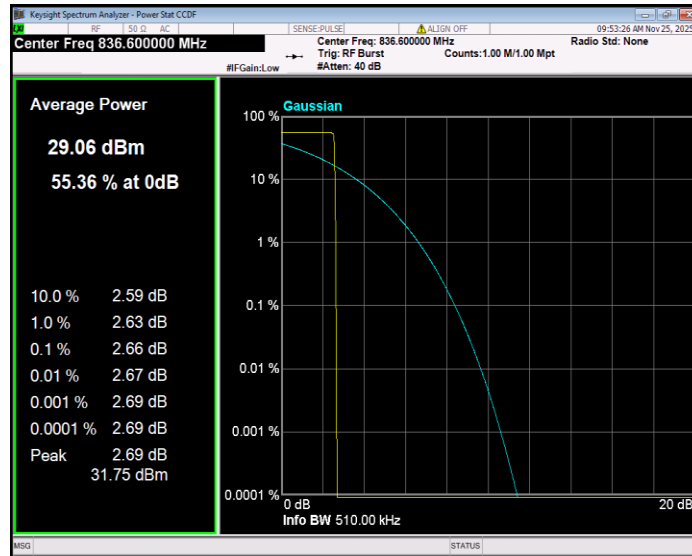
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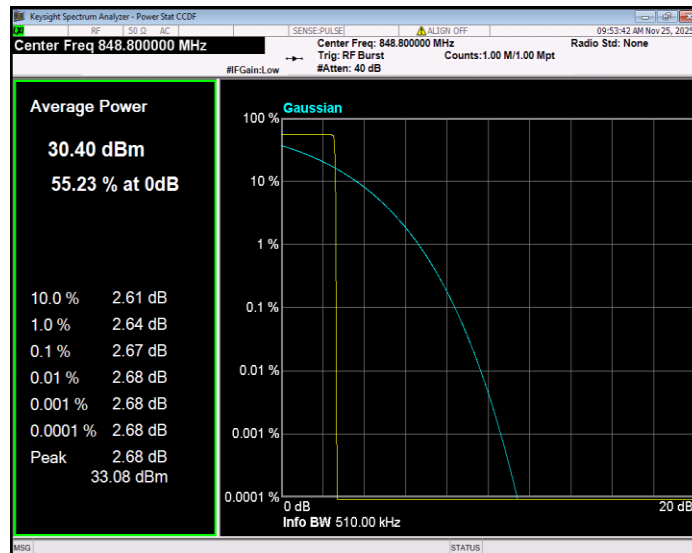
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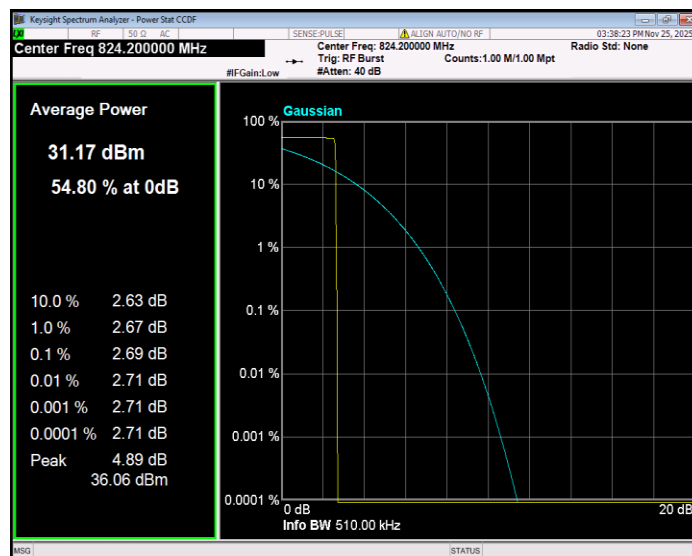
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GSM850 Channel=251



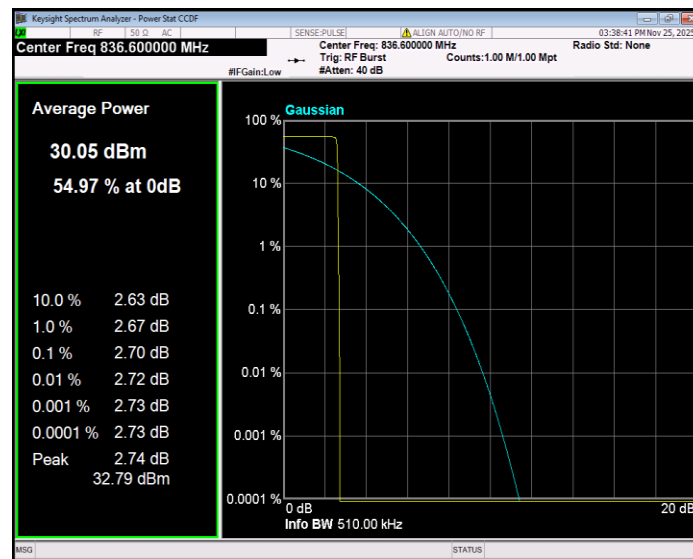
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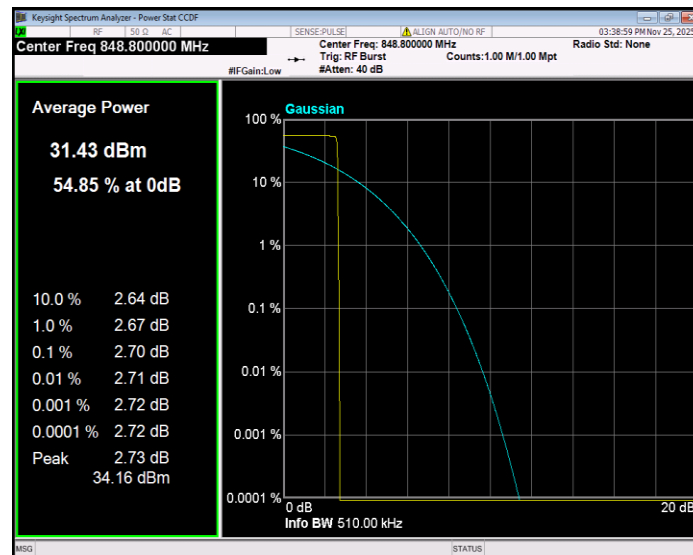


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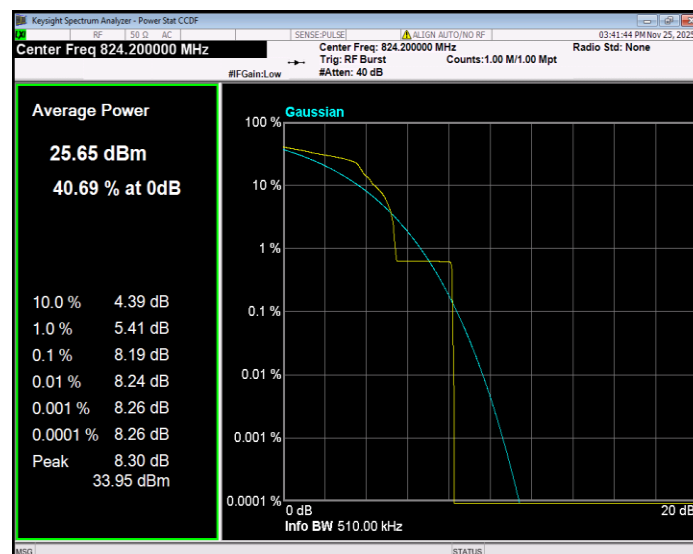
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GPRS850 Channel=251



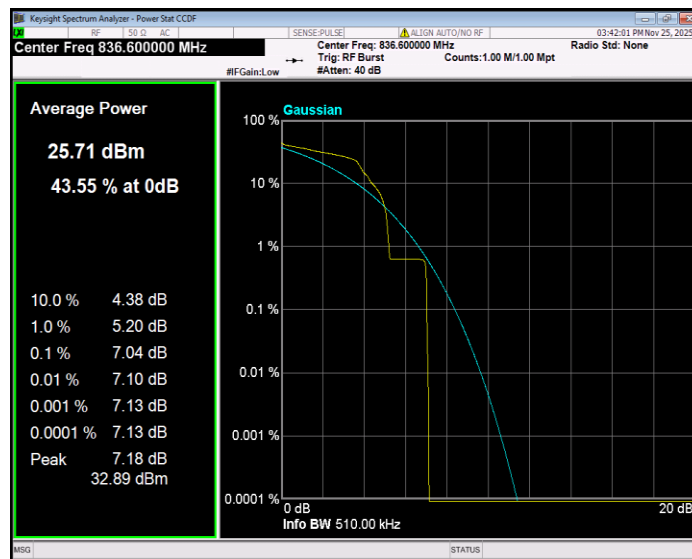
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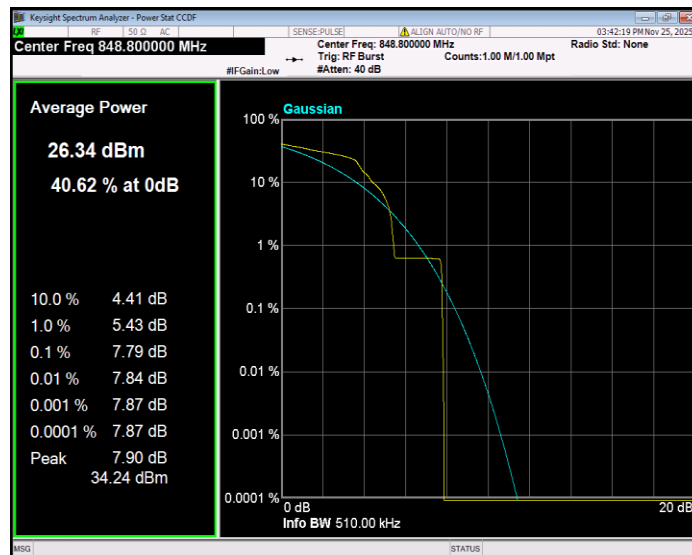


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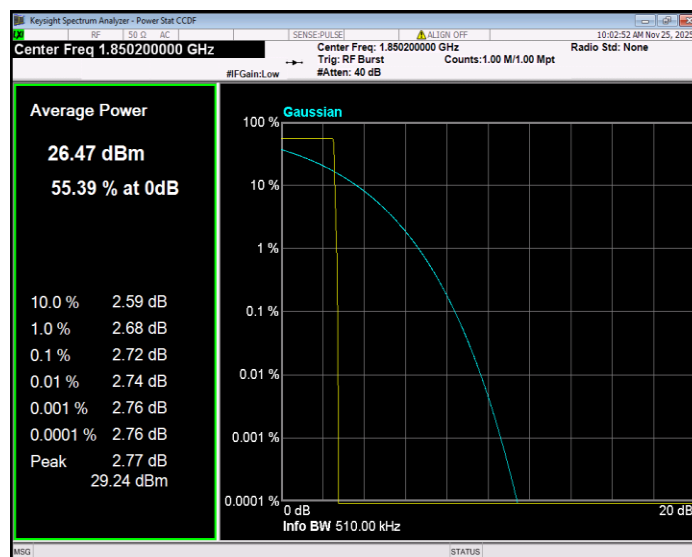
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EGPRS850 Channel=251



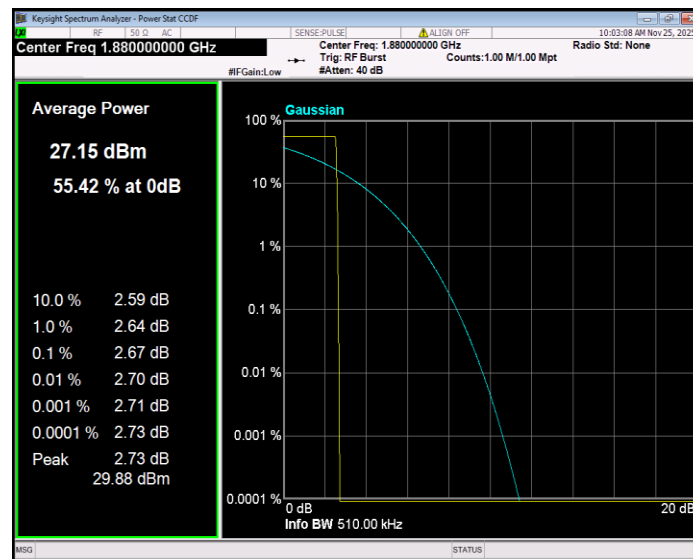
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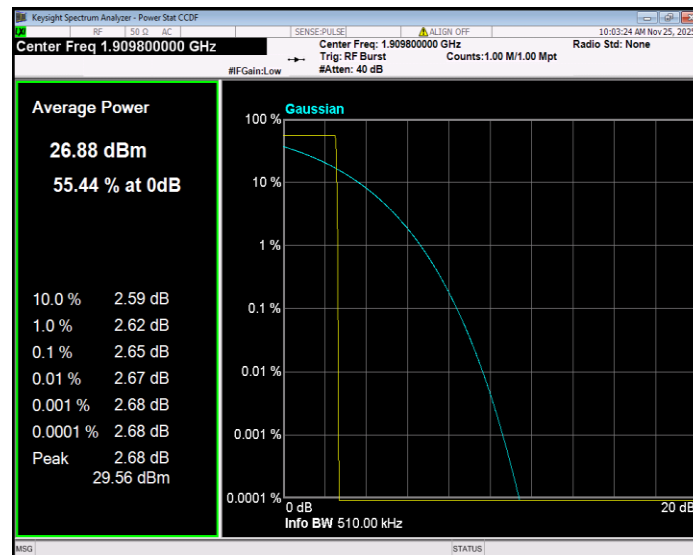


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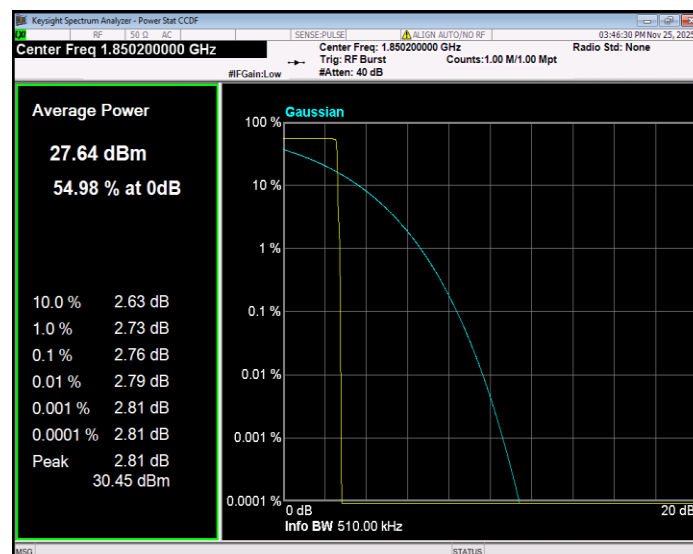
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GSM1900 Channel=810



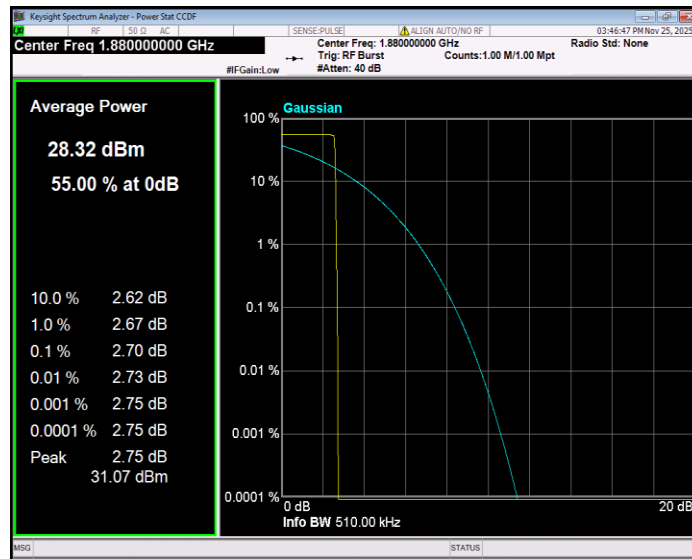
GPRS1900 Channel=512



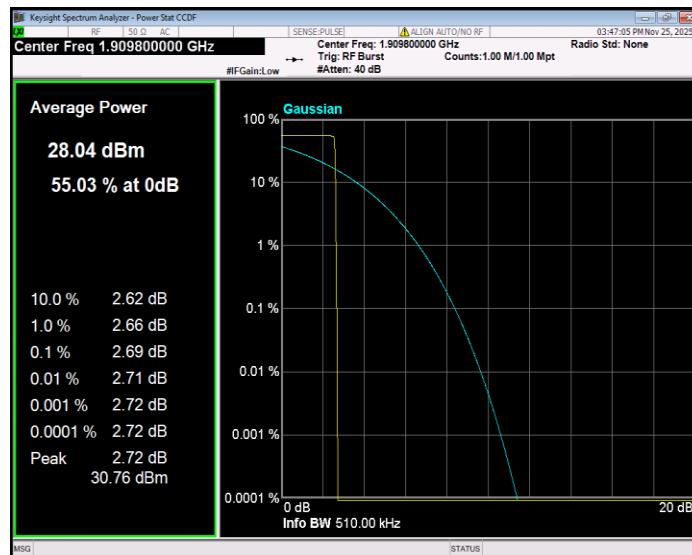


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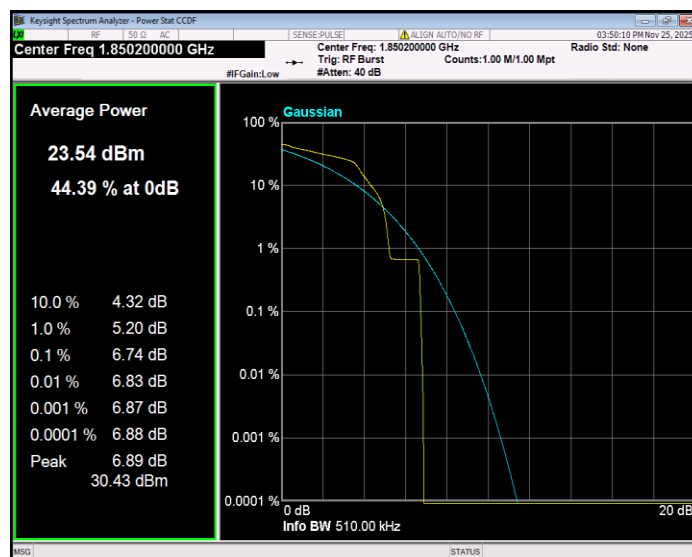
GPRS1900 Channel=661



GPRS1900 Channel=810



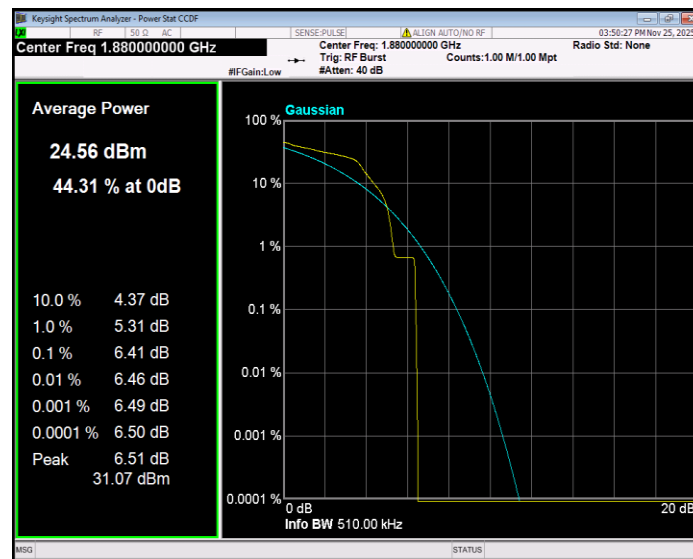
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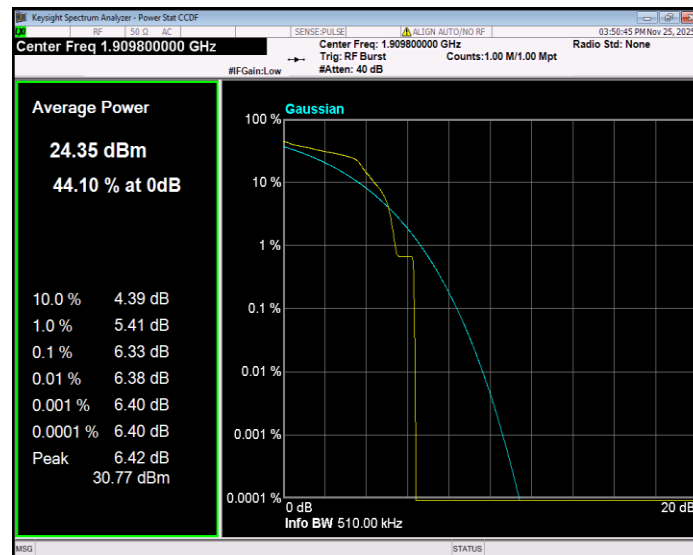


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



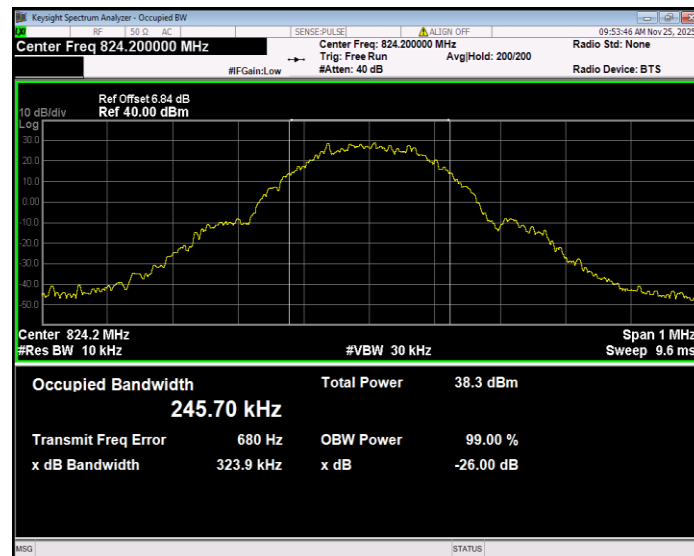


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	245.698	323.883	PASS
GSM850	190	836.6	242.953	314.707	PASS
GSM850	251	848.8	244.216	314.900	PASS
GPRS850	128	824.2	248.219	322.862	PASS
GPRS850	190	836.6	250.750	315.270	PASS
GPRS850	251	848.8	245.957	312.709	PASS
EGPRS850	128	824.2	246.073	297.136	PASS
EGPRS850	190	836.6	247.814	321.832	PASS
EGPRS850	251	848.8	246.090	321.842	PASS
GSM1900	512	1850.2	250.339	313.477	PASS
GSM1900	661	1880	247.756	318.830	PASS
GSM1900	810	1909.8	245.150	320.501	PASS
GPRS1900	512	1850.2	251.022	315.168	PASS
GPRS1900	661	1880	247.496	308.646	PASS
GPRS1900	810	1909.8	248.273	317.036	PASS
EGPRS1900	512	1850.2	251.500	318.492	PASS
EGPRS1900	661	1880	243.521	306.962	PASS
EGPRS1900	810	1909.8	249.723	322.312	PASS

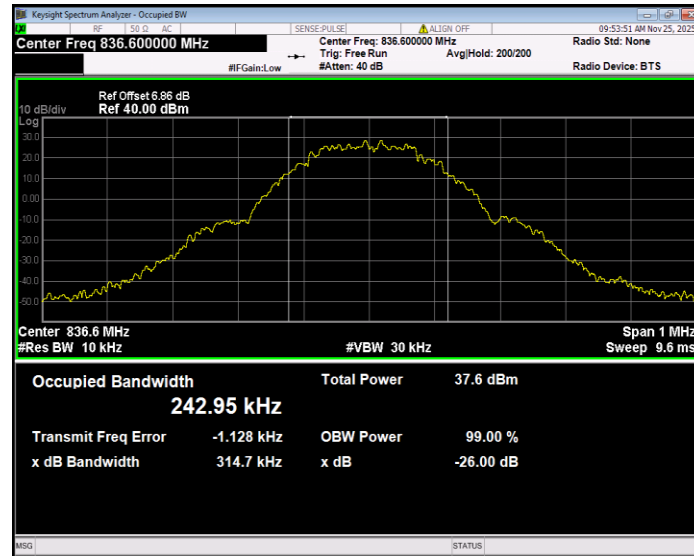
GSM850 Channel=128



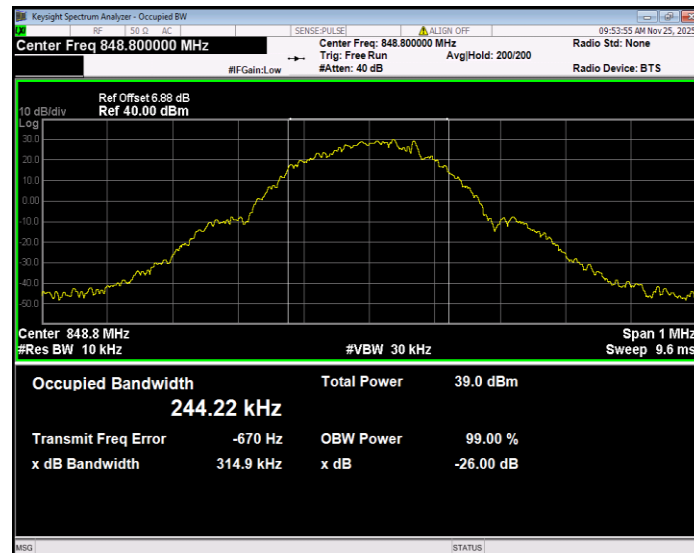
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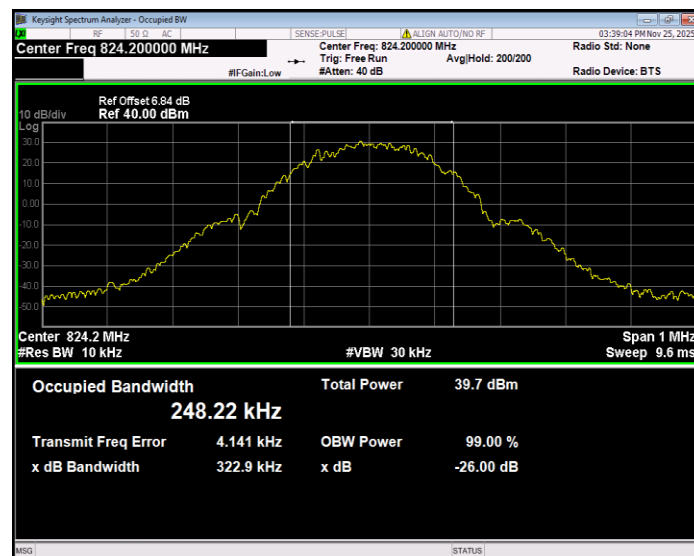
Report



GSM850 Channel=251



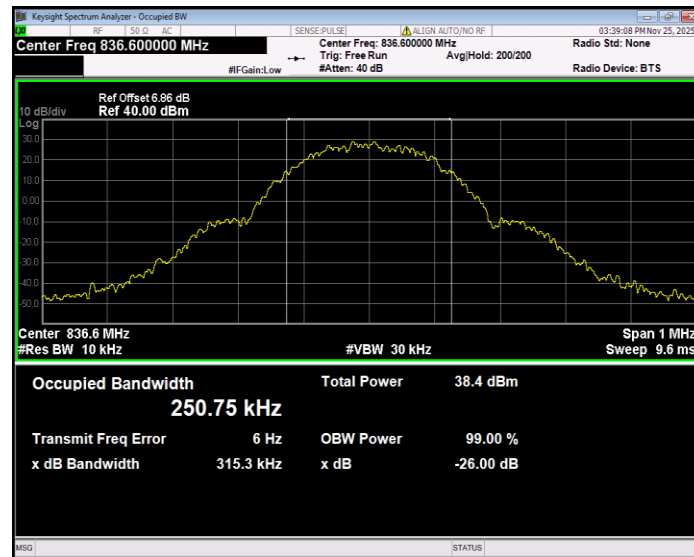
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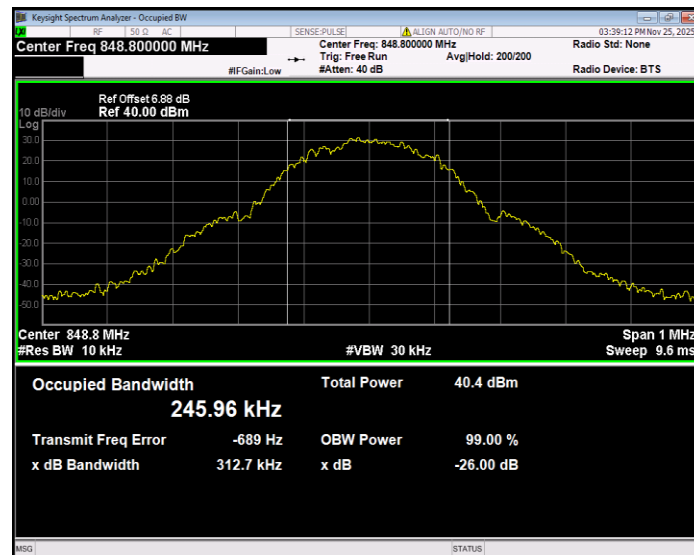


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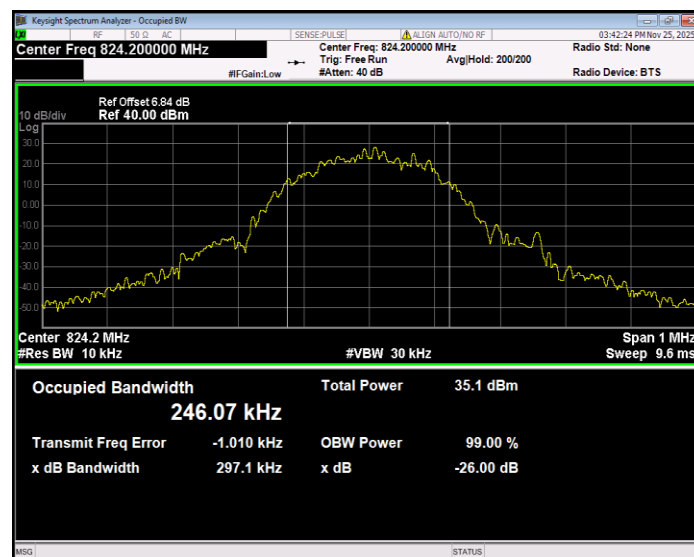
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GPRS850 Channel=251



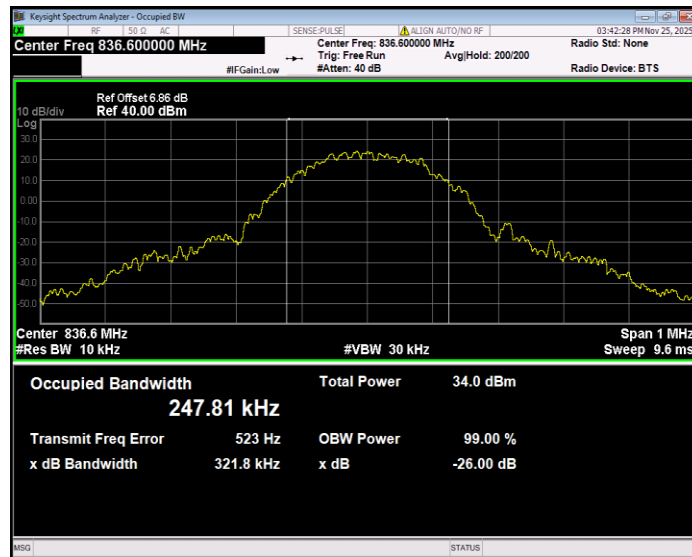
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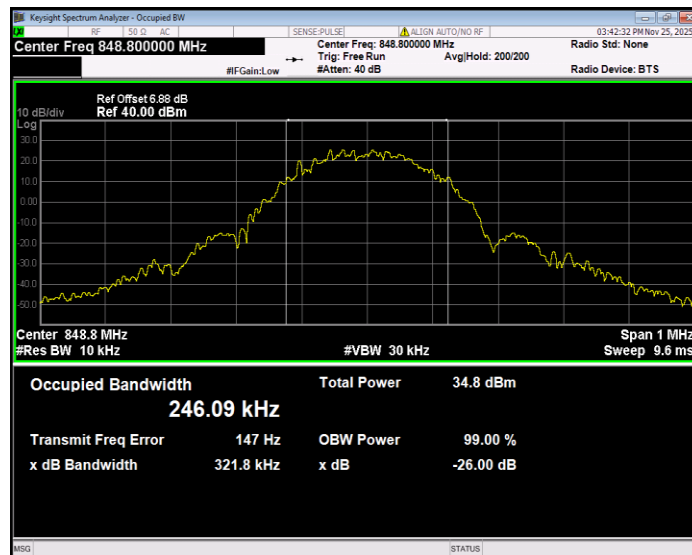


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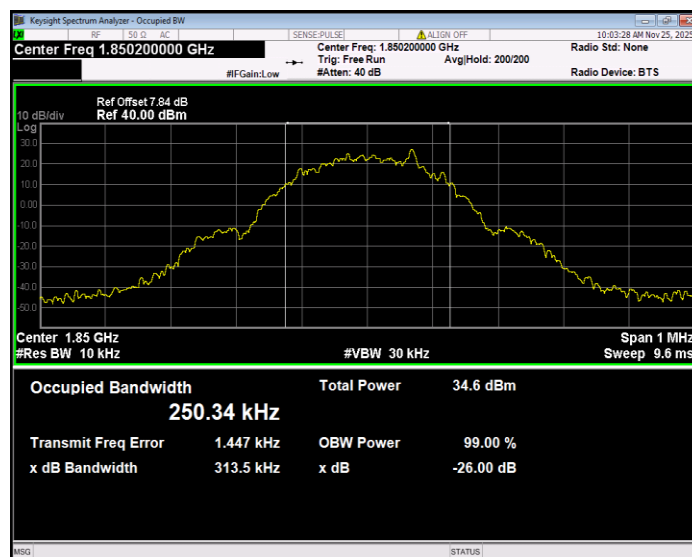
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EGPRS850 Channel=251



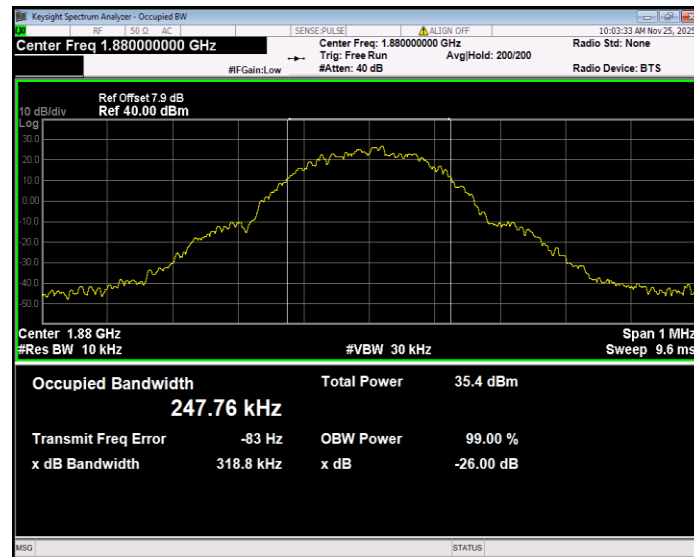
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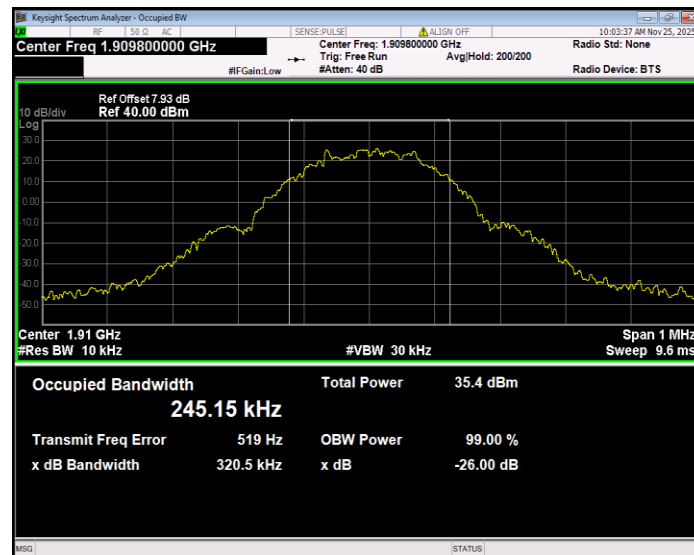


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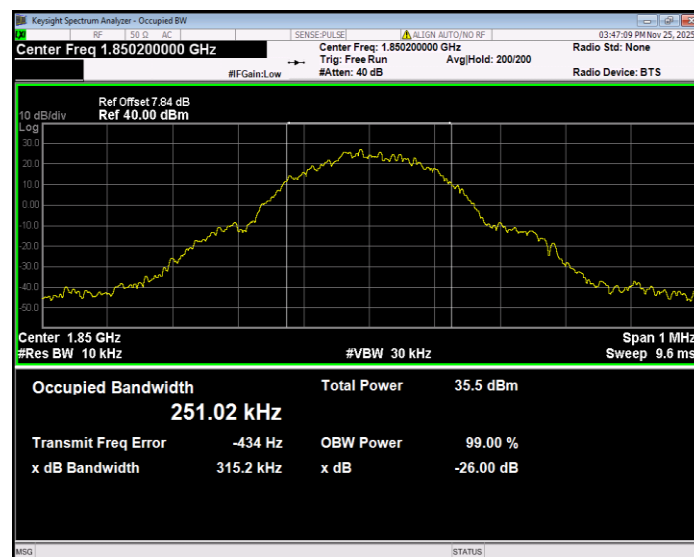
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GSM1900 Channel=810



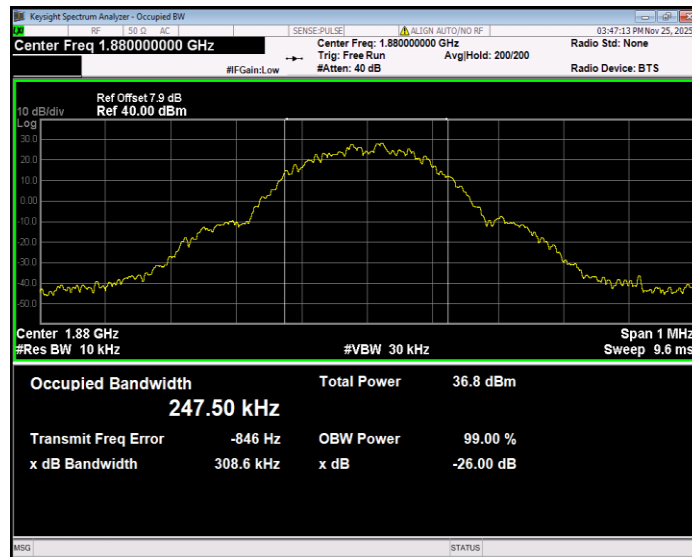
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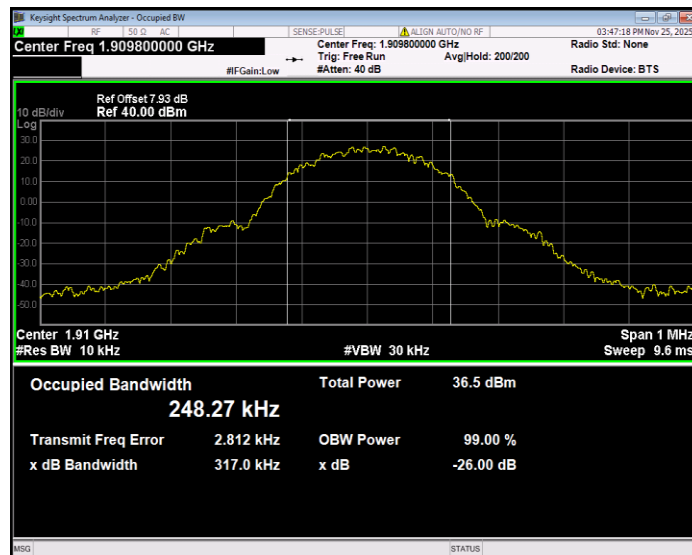


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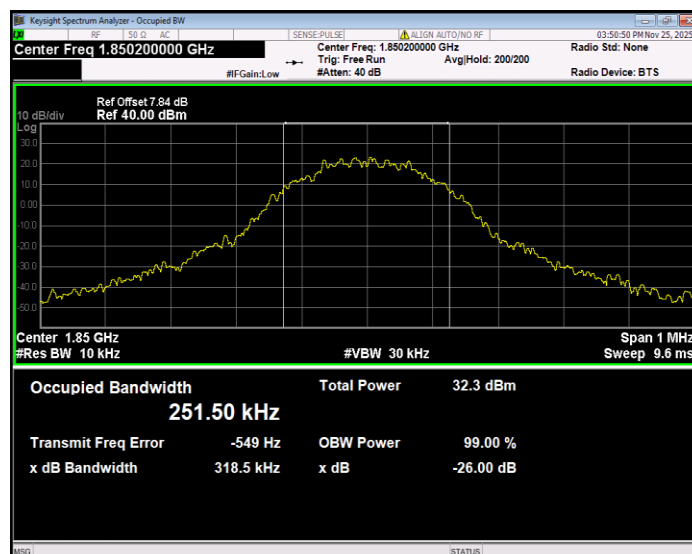
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GPRS1900 Channel=810



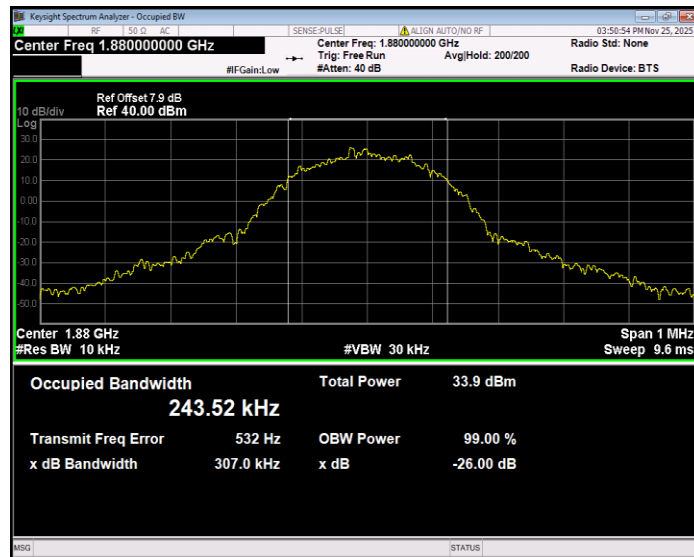
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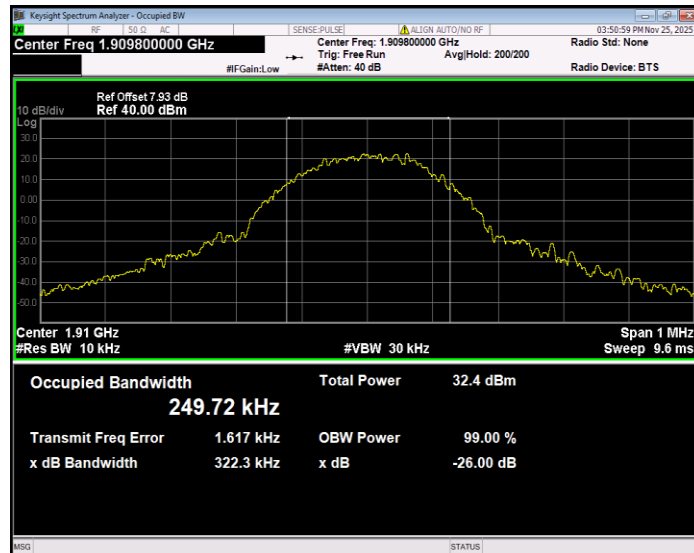


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



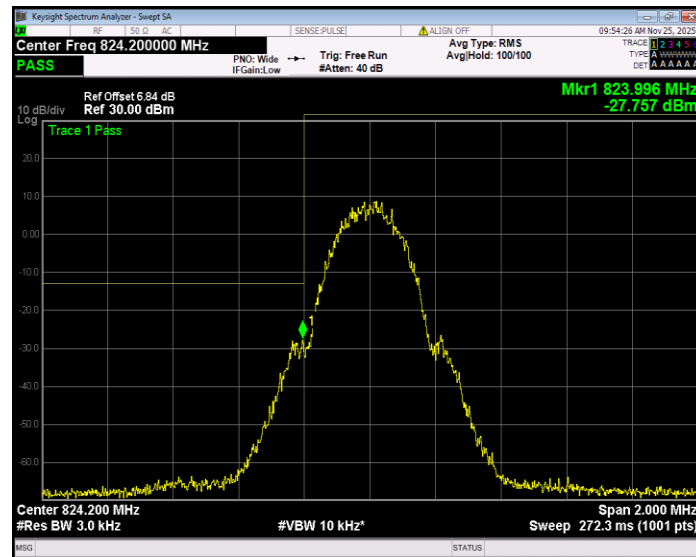


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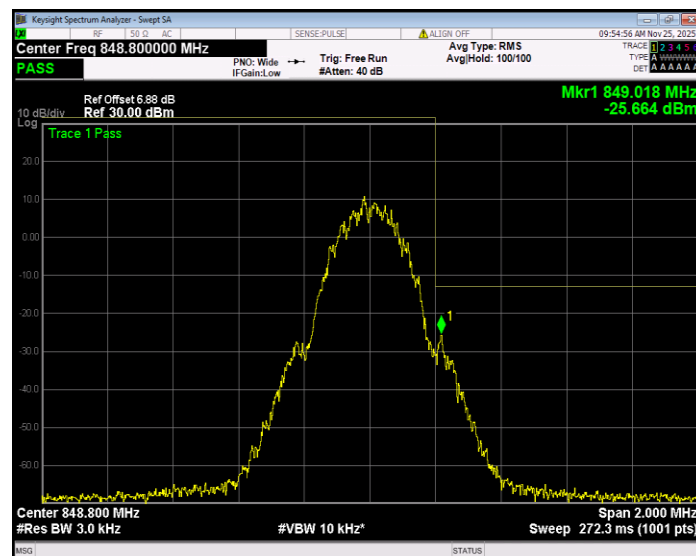
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-27.75	-13	PASS
GSM850	251	848.8	849.02	-25.66	-13	PASS
GPRS850	128	824.2	823.98	-25.45	-13	PASS
GPRS850	251	848.8	849.03	-25.56	-13	PASS
EGPRS850	128	824.2	823.97	-35.70	-13	PASS
EGPRS850	251	848.8	849.01	-34.60	-13	PASS
GSM1900	512	1850.2	1849.99	-30.43	-13	PASS
GSM1900	810	1909.8	1910.02	-28.31	-13	PASS
GPRS1900	512	1850.2	1849.98	-29.13	-13	PASS
GPRS1900	810	1909.8	1910.01	-28.44	-13	PASS
EGPRS1900	512	1850.2	1849.96	-37.41	-13	PASS
EGPRS1900	810	1909.8	1910.02	-36.84	-13	PASS

GSM850 Channel=128



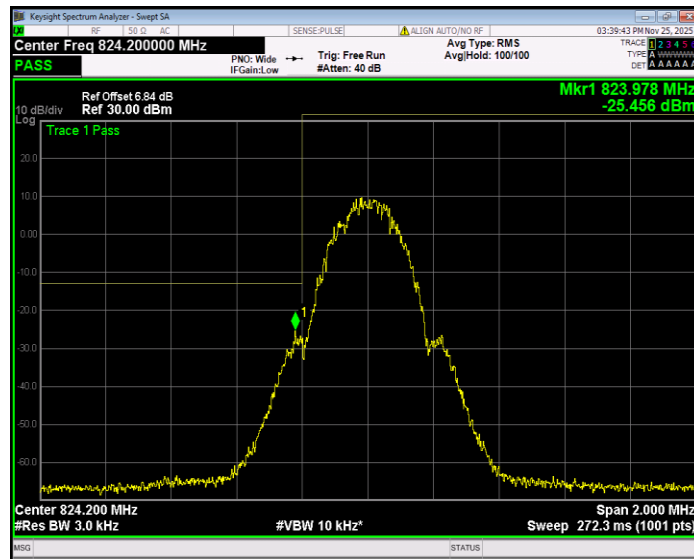
GSM850 Channel=251



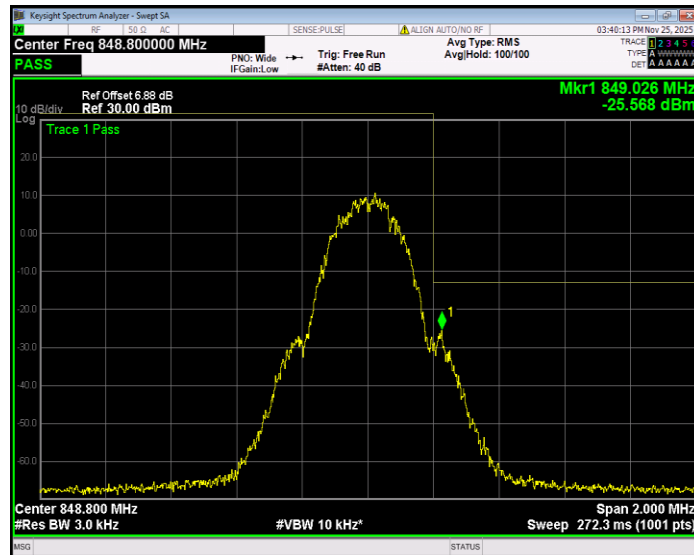


Report

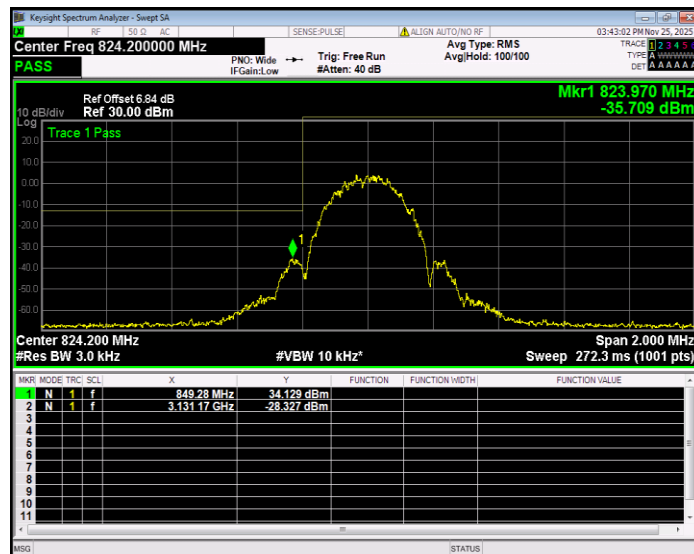
GPRS850 Channel=128



GPRS850 Channel=251



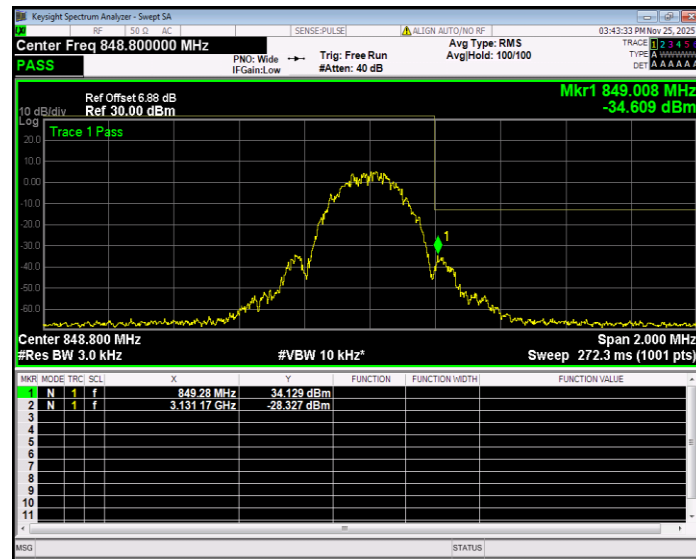
EGPRS850 Channel=128



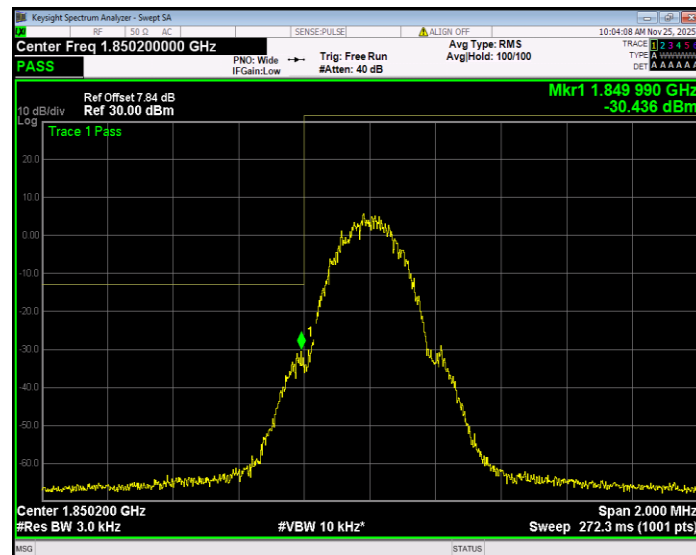


Report

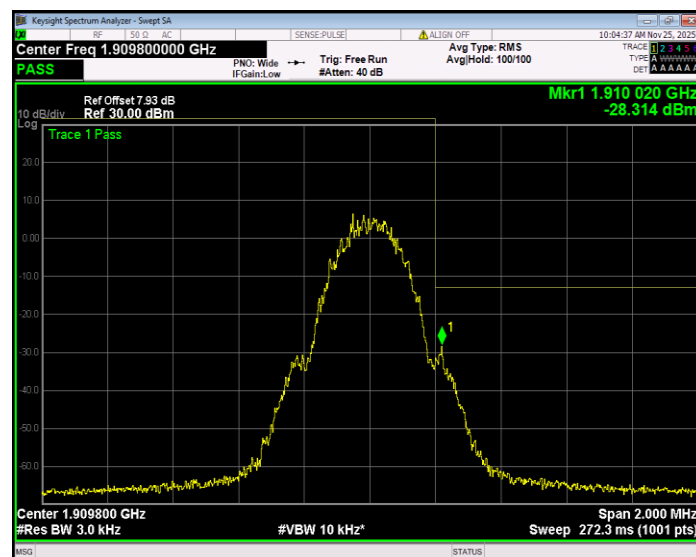
EGPRS850 Channel=251



GSM1900 Channel=512



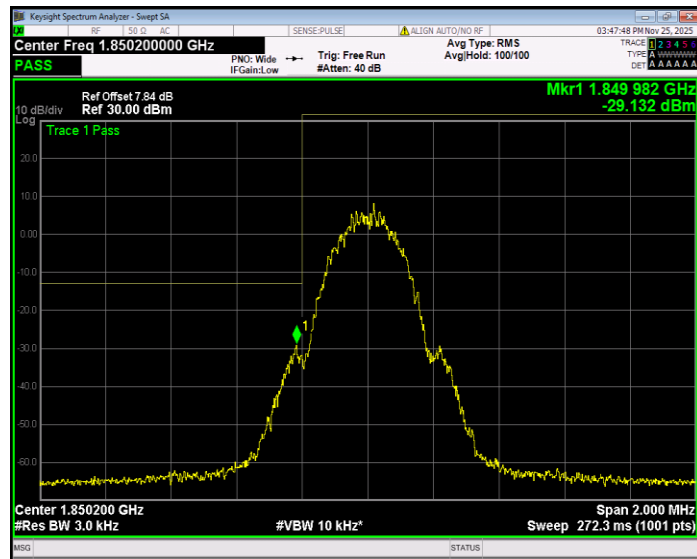
GSM1900 Channel=810



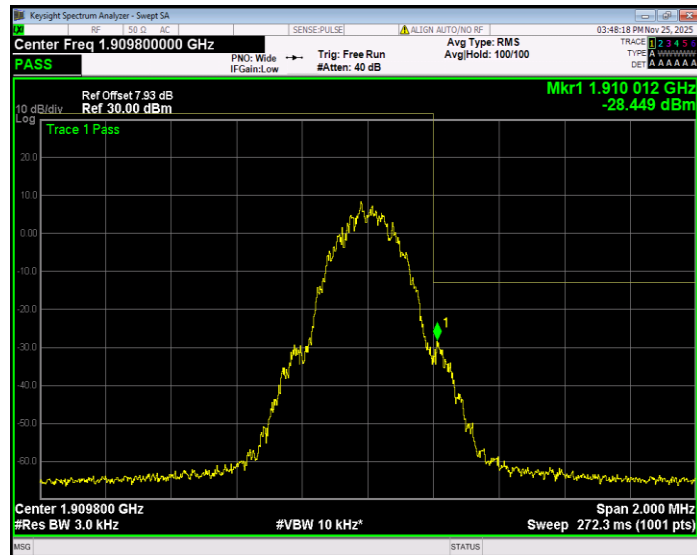


Report

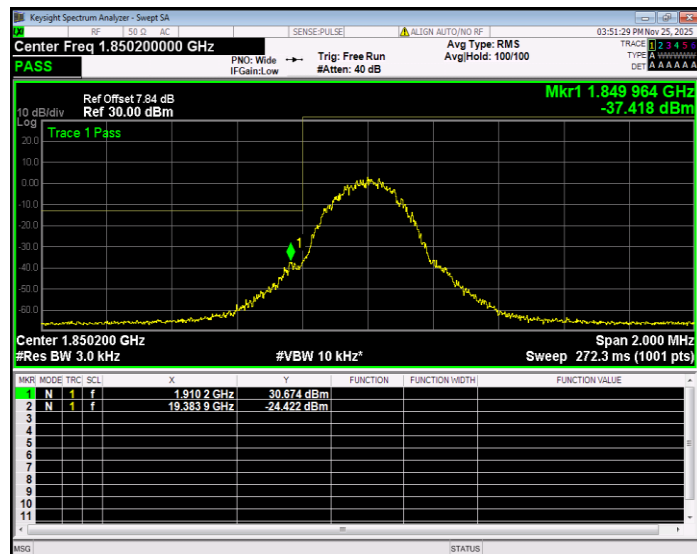
GPRS1900 Channel=512



GPRS1900 Channel=810



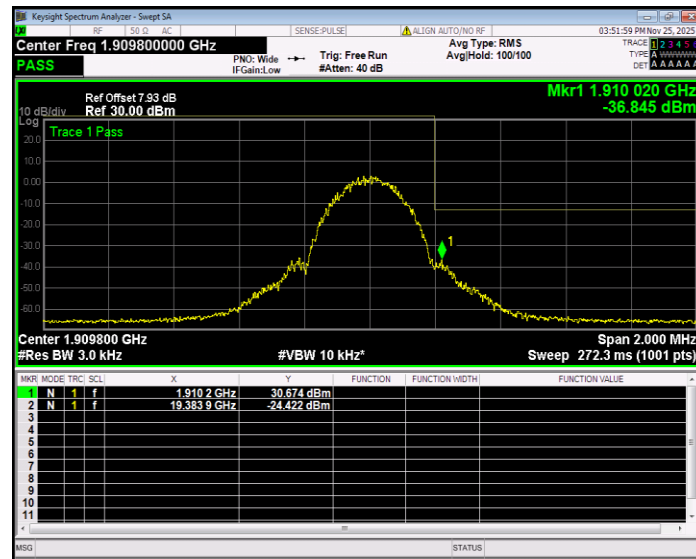
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



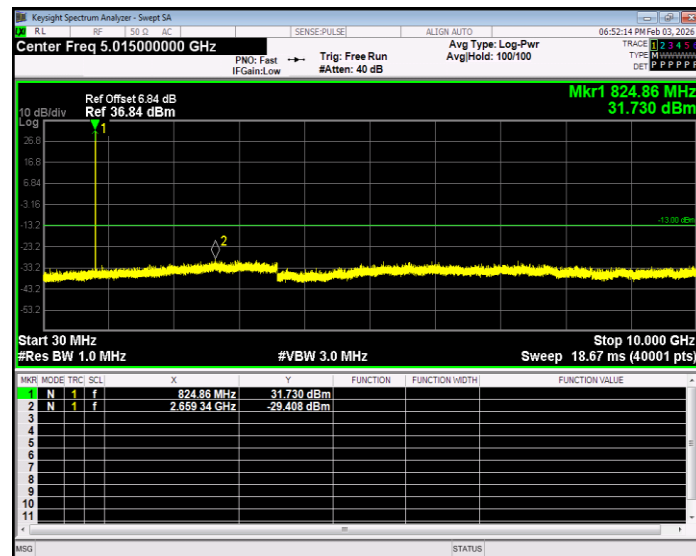


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	2659.34	-29.40	-13	PASS
GSM850	190	836.6	1673.80	-27.26	-13	PASS
GSM850	251	848.8	3281.47	-29.13	-13	PASS
GPRS850	128	824.2	3065.12	-29.54	-13	PASS
GPRS850	190	836.6	1673.80	-28.23	-13	PASS
GPRS850	251	848.8	3158.84	-29.09	-13	PASS
EGPRS850	128	824.2	3040.69	-28.95	-13	PASS
EGPRS850	190	836.6	3122.44	-28.81	-13	PASS
EGPRS850	251	848.8	2659.34	-28.82	-13	PASS
GSM1900	512	1850.2	18452.33	-23.92	-13	PASS
GSM1900	661	1880	19737.89	-24.08	-13	PASS
GSM1900	810	1909.8	18955.57	-23.69	-13	PASS
GPRS1900	512	1850.2	19717.42	-23.32	-13	PASS
GPRS1900	661	1880	19791.31	-23.66	-13	PASS
GPRS1900	810	1909.8	19113.33	-23.25	-13	PASS
EGPRS1900	512	1850.2	19857.21	-23.61	-13	PASS
EGPRS1900	661	1880	19726.91	-23.80	-13	PASS
EGPRS1900	810	1909.8	19380.43	-24.28	-13	PASS

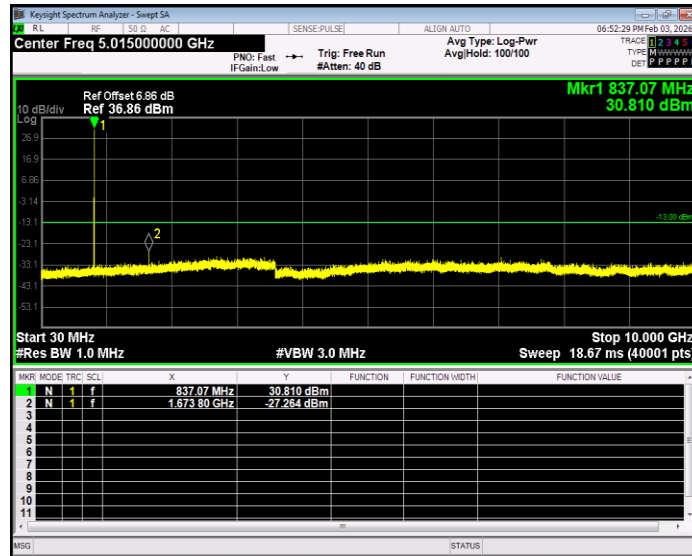
GSM850 Channel=128



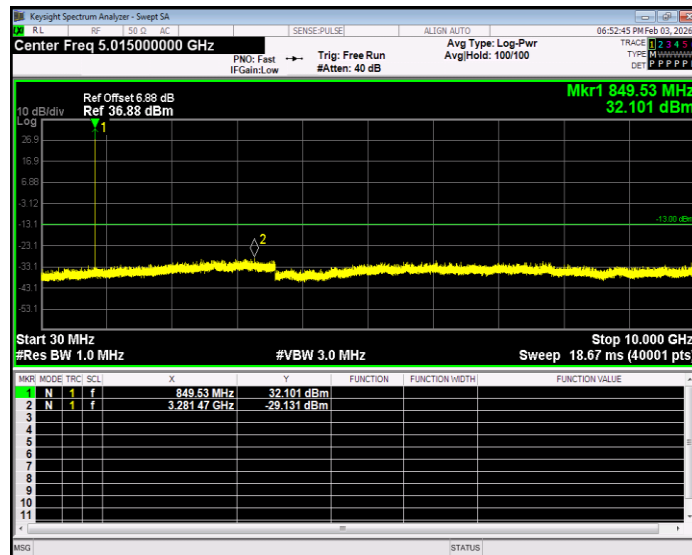
GSM850 Channel=190



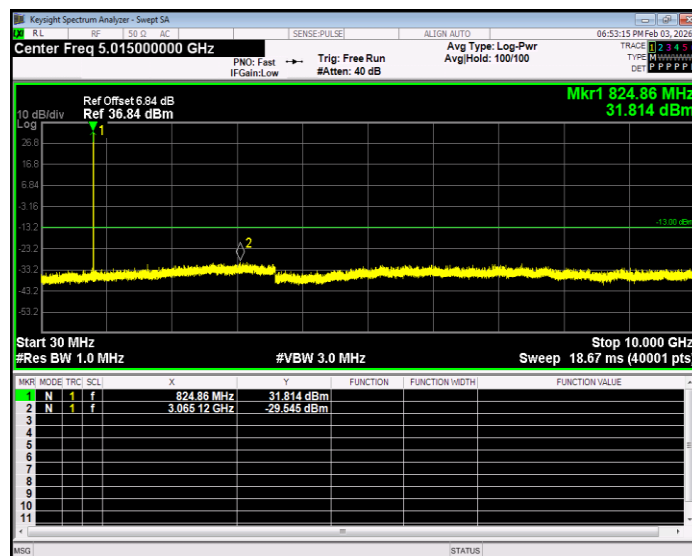
Report



GSM850 Channel=251



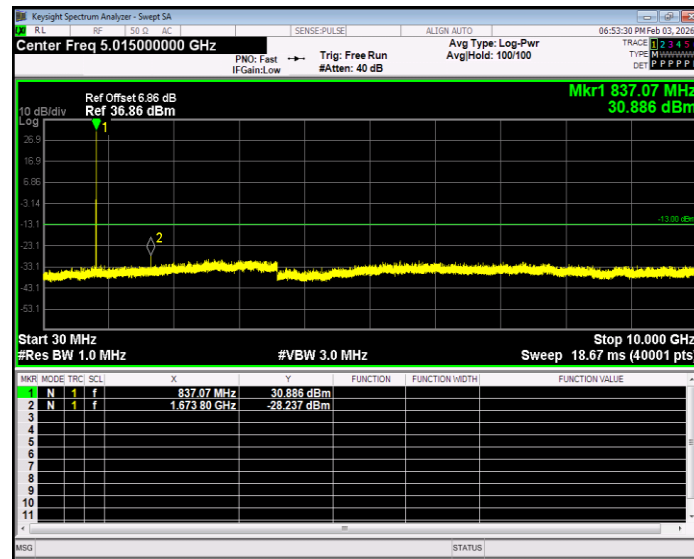
GPRS850 Channel=128



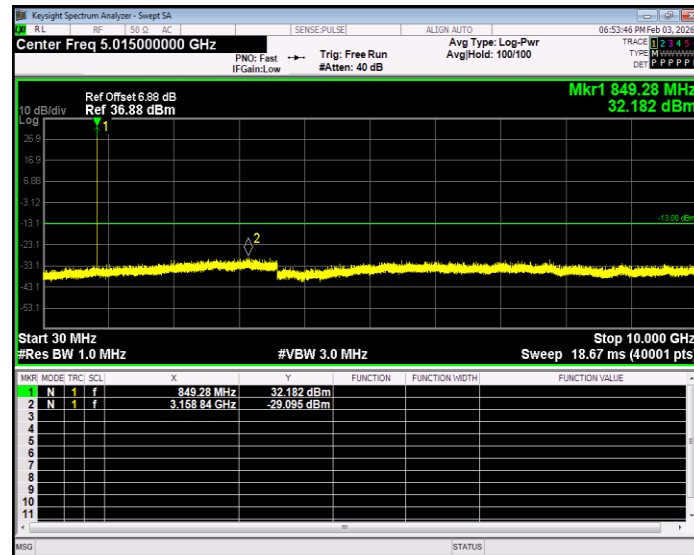


Report

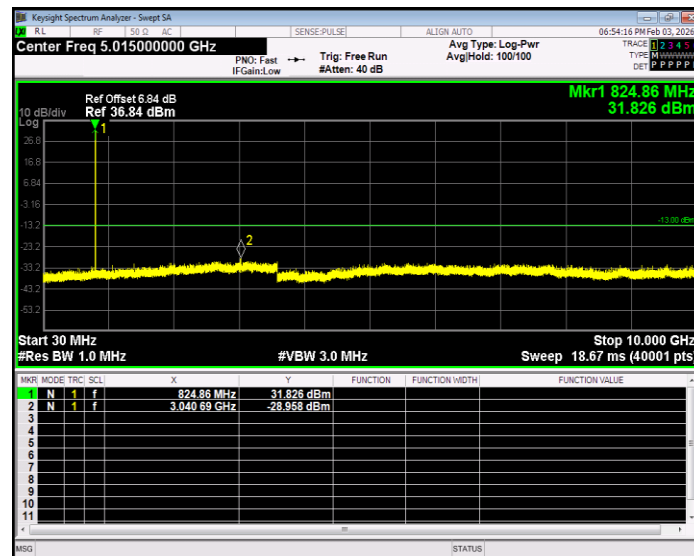
GPRS850 Channel=190



GPRS850 Channel=251



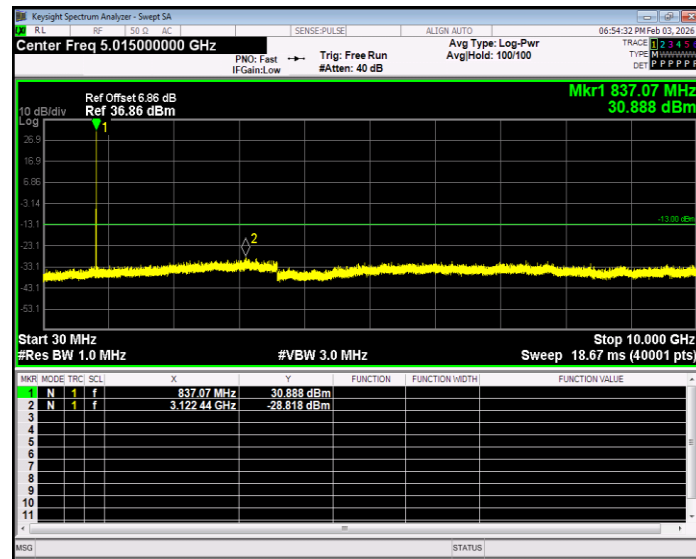
EGPRS850 Channel=128



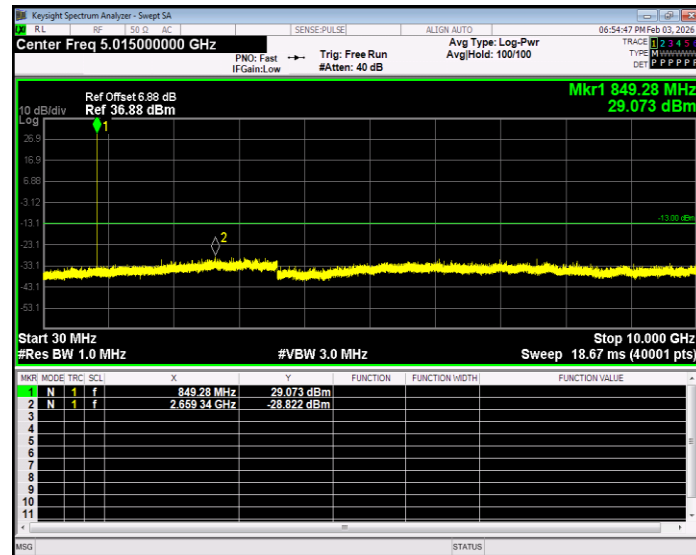


Report

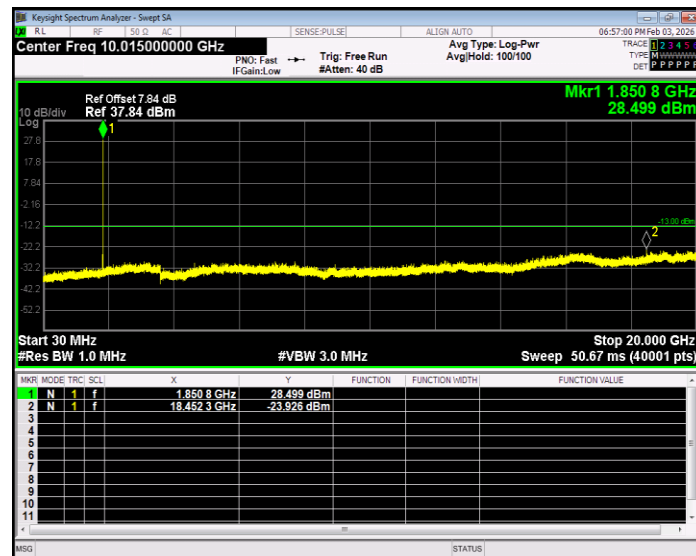
EGPRS850 Channel=190



EGPRS850 Channel=251



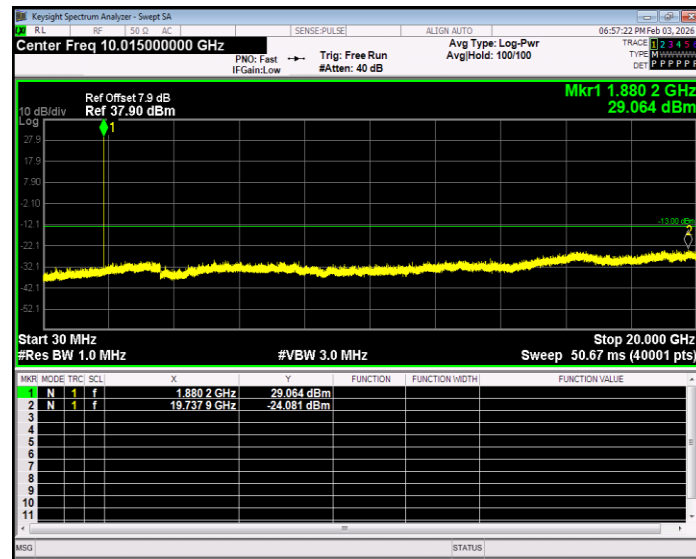
GSM1900 Channel=512



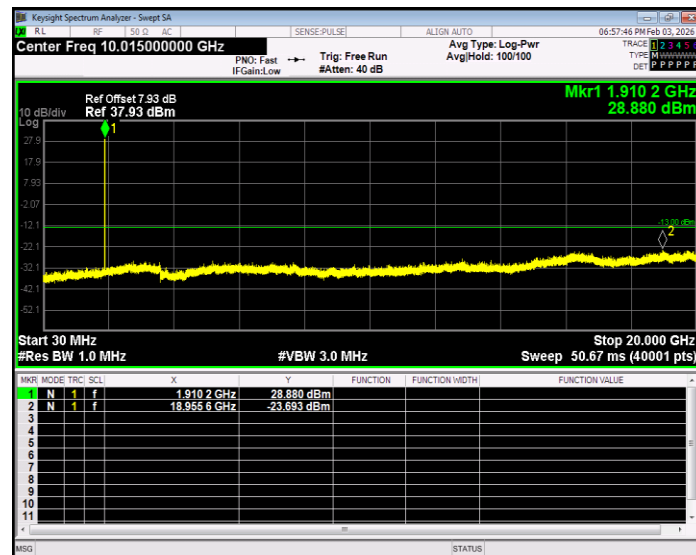


Report

GSM1900 Channel=661



GSM1900 Channel=810



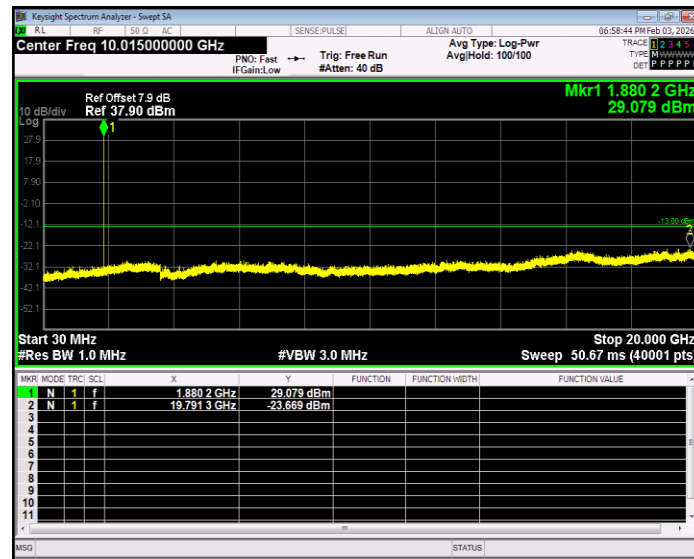
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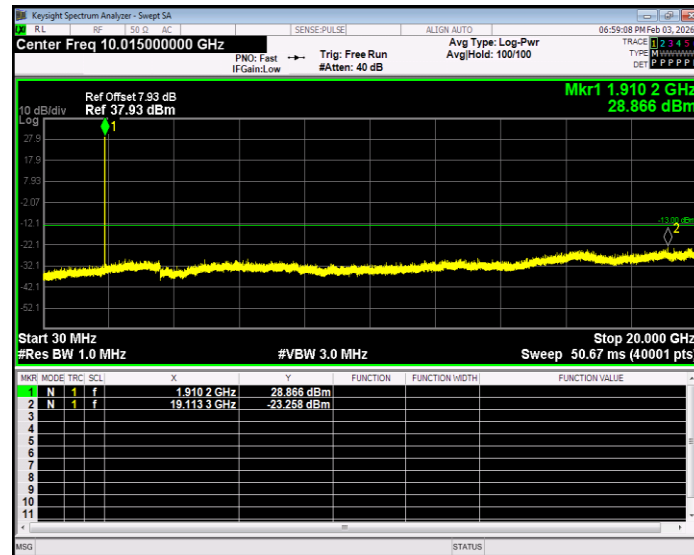


Report

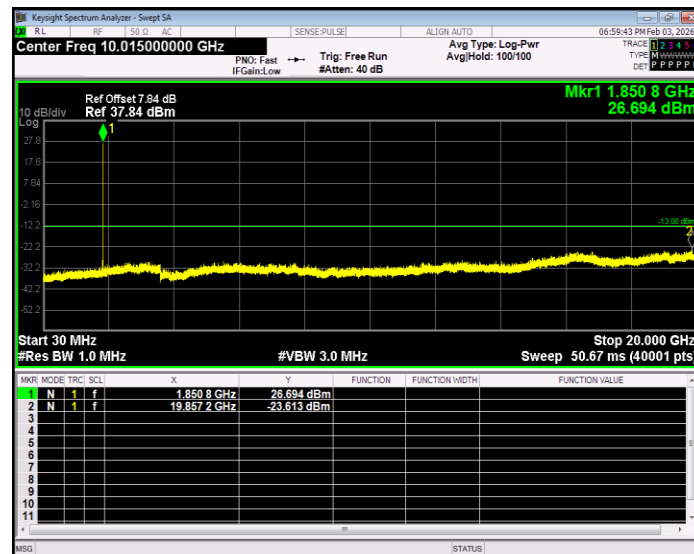
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GPRS1900 Channel=810



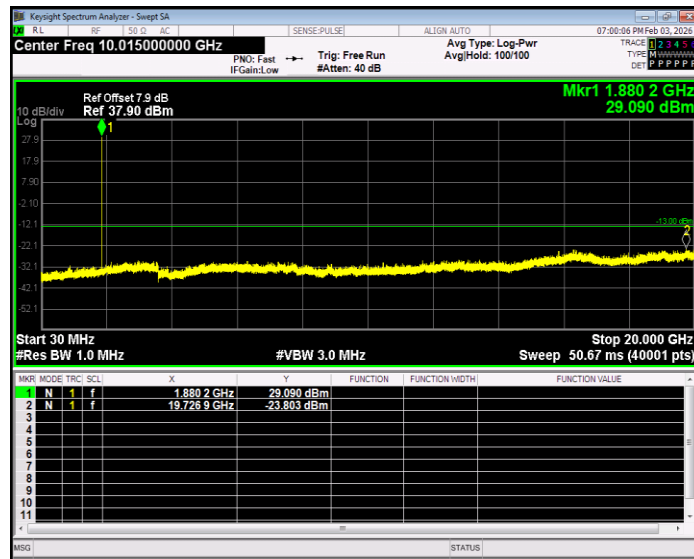
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

