



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	31.68	-1.16	28.37	38.45	PASS
GSM850	190	836.6	31.83	-1.16	28.52	38.45	PASS
GSM850	251	848.8	31.96	-1.16	28.65	38.45	PASS
GPRS850 1 Slot	128	824.2	31.65	-1.16	28.34	38.45	PASS
GPRS850 1 Slot	190	836.6	31.81	-1.16	28.50	38.45	PASS
GPRS850 1 Slot	251	848.8	31.93	-1.16	28.62	38.45	PASS
GPRS850 2 Slot	128	824.2	30.98	-1.16	27.67	38.45	PASS
GPRS850 2 Slot	190	836.6	31.15	-1.16	27.84	38.45	PASS
GPRS850 2 Slot	251	848.8	31.27	-1.16	27.96	38.45	PASS
GPRS850 3 Slot	128	824.2	29.05	-1.16	25.74	38.45	PASS
GPRS850 3 Slot	190	836.6	29.16	-1.16	25.85	38.45	PASS
GPRS850 3 Slot	251	848.8	29.30	-1.16	25.99	38.45	PASS
GPRS850 4 Slot	128	824.2	28.01	-1.16	24.70	38.45	PASS
GPRS850 4 Slot	190	836.6	28.13	-1.16	24.82	38.45	PASS
GPRS850 4 Slot	251	848.8	28.23	-1.16	24.92	38.45	PASS
EGPRS850 1 Slot	128	824.2	32.27	-1.16	28.96	38.45	PASS
EGPRS850 1 Slot	190	836.6	31.84	-1.16	28.53	38.45	PASS
EGPRS850 1 Slot	251	848.8	32.65	-1.16	29.34	38.45	PASS
EGPRS850 2 Slot	128	824.2	31.48	-1.16	28.17	38.45	PASS
EGPRS850 2 Slot	190	836.6	31.17	-1.16	27.86	38.45	PASS
EGPRS850 2 Slot	251	848.8	31.48	-1.16	28.17	38.45	PASS
EGPRS850 3 Slot	128	824.2	30.67	-1.16	27.36	38.45	PASS
EGPRS850 3 Slot	190	836.6	29.71	-1.16	26.40	38.45	PASS
EGPRS850 3 Slot	251	848.8	30.02	-1.16	26.71	38.45	PASS
EGPRS850 4 Slot	128	824.2	29.57	-1.16	26.26	38.45	PASS
EGPRS850 4 Slot	190	836.6	28.96	-1.16	25.65	38.45	PASS
EGPRS850 4 Slot	251	848.8	29.57	-1.16	26.26	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	29.07	1.46	30.53	33.01	PASS
GSM1900	661	1880	29.32	1.46	30.78	33.01	PASS
GSM1900	810	1909.8	29.04	1.46	30.50	33.01	PASS
GPRS1900 1 Slot	512	1850.2	29.08	1.46	30.54	33.01	PASS
GPRS1900 1 Slot	661	1880	29.33	1.46	30.79	33.01	PASS
GPRS1900 1 Slot	810	1909.8	29.04	1.46	30.50	33.01	PASS
GPRS1900 2 Slot	512	1850.2	28.40	1.46	29.86	33.01	PASS
GPRS1900 2 Slot	661	1880	28.63	1.46	30.09	33.01	PASS
GPRS1900 2 Slot	810	1909.8	28.36	1.46	29.82	33.01	PASS
GPRS1900 3 Slot	512	1850.2	26.37	1.46	27.83	33.01	PASS
GPRS1900 3 Slot	661	1880	26.60	1.46	28.06	33.01	PASS
GPRS1900 3 Slot	810	1909.8	26.30	1.46	27.76	33.01	PASS
GPRS1900 4 Slot	512	1850.2	25.26	1.46	26.72	33.01	PASS
GPRS1900 4 Slot	661	1880	25.48	1.46	26.94	33.01	PASS
GPRS1900 4 Slot	810	1909.8	25.21	1.46	26.67	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	29.00	1.46	30.46	33.01	PASS
EGPRS1900 1 Slot	661	1880	28.81	1.46	30.27	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	28.81	1.46	30.27	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	28.30	1.46	29.76	33.01	PASS
EGPRS1900 2 Slot	661	1880	28.31	1.46	29.77	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	28.11	1.46	29.57	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	26.54	1.46	28.00	33.01	PASS
EGPRS1900 3 Slot	661	1880	26.70	1.46	28.16	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	26.42	1.46	27.88	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	25.83	1.46	27.29	33.01	PASS
EGPRS1900 4 Slot	661	1880	25.74	1.46	27.20	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	25.51	1.46	26.97	33.01	PASS



Report

Frequency stability

GSM 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.20	-0.001	2.5ppm	PASS
40		1.03	0.001		
30		1.32	0.002		
20		-3.71	-0.004		
10		1.17	0.001		
0		1.23	0.001		
-10		1.04	0.001		
-20		-0.88	-0.001		
-30		1.18	0.001		
20	Maximum Voltage	0.89	0.001	2.5ppm	PASS
20	BEP	1.17	0.001		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.12	-0.001	2.5ppm	PASS
40		0.88	0.001		
30		-1.12	-0.001		
20		-3.36	-0.004		
10		0.75	0.001		
0		-1.02	-0.001		
-10		-1.01	-0.001		
-20		1.02	0.001		
-30		0.70	0.001		
20	Maximum Voltage	-0.86	-0.001	2.5ppm	PASS
20	BEP	-0.81	-0.001		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.83	-0.002	2.5ppm	PASS
40		1.91	0.002		
30		1.86	0.002		
20		-5.10	-0.006		
10		1.64	0.002		
0		1.56	0.002		
-10		-1.69	-0.002		
-20		-1.54	-0.002		
-30		-1.89	-0.002		
20	Maximum Voltage	-1.64	-0.002		
20	BEP	1.93	0.002		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	3.65	0.002	Within Authorized Band	PASS
40		3.65	0.002		
30		-3.42	-0.002		
20		-8.52	-0.005		
10		-3.49	-0.002		
0		-3.23	-0.002		
-10		3.53	0.002		
-20		3.57	0.002		
-30		-3.40	-0.002		
20	Maximum Voltage	-3.38	-0.002		
20	BEP	3.18	0.002		



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GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.62	-0.001	Within Authorized Band	PASS
40		-1.66	-0.001		
30		2.08	0.001		
20		-5.29	-0.003		
10		-1.90	-0.001		
0		1.68	0.001		
-10		1.74	0.001		
-20		-1.68	-0.001		
-30		1.89	0.001		
20	Maximum Voltage	2.11	0.001		
20	BEP	-2.03	-0.001		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	7.01	0.004	Within Authorized Band	PASS
40		-7.48	-0.004		
30		-7.49	-0.004		
20		-16.24	-0.009		
10		7.57	0.004		
0		-7.06	-0.004		
-10		-7.35	-0.004		
-20		-7.06	-0.004		
-30		-7.05	-0.004		
20	Maximum Voltage	7.28	0.004		
20	BEP	7.19	0.004		

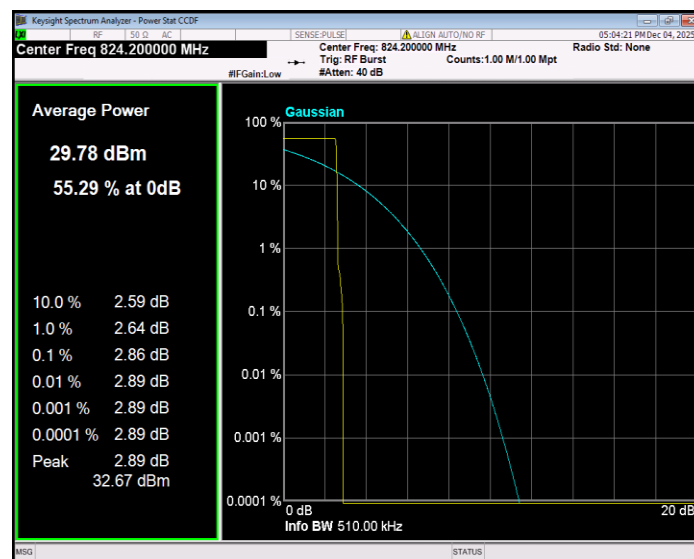


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.86	13	PASS
GSM850	190	836.6	2.87	13	PASS
GSM850	251	848.8	2.85	13	PASS
GPRS850	128	824.2	2.89	13	PASS
GPRS850	190	836.6	2.90	13	PASS
GPRS850	251	848.8	2.89	13	PASS
EGPRS850	128	824.2	4.31	13	PASS
EGPRS850	190	836.6	4.67	13	PASS
EGPRS850	251	848.8	4.68	13	PASS
GSM1900	512	1850.2	2.73	13	PASS
GSM1900	661	1880	2.73	13	PASS
GSM1900	810	1909.8	2.74	13	PASS
GPRS1900	512	1850.2	2.77	13	PASS
GPRS1900	661	1880	2.77	13	PASS
GPRS1900	810	1909.8	2.77	13	PASS
EGPRS1900	512	1850.2	5.05	13	PASS
EGPRS1900	661	1880	4.83	13	PASS
EGPRS1900	810	1909.8	4.85	13	PASS

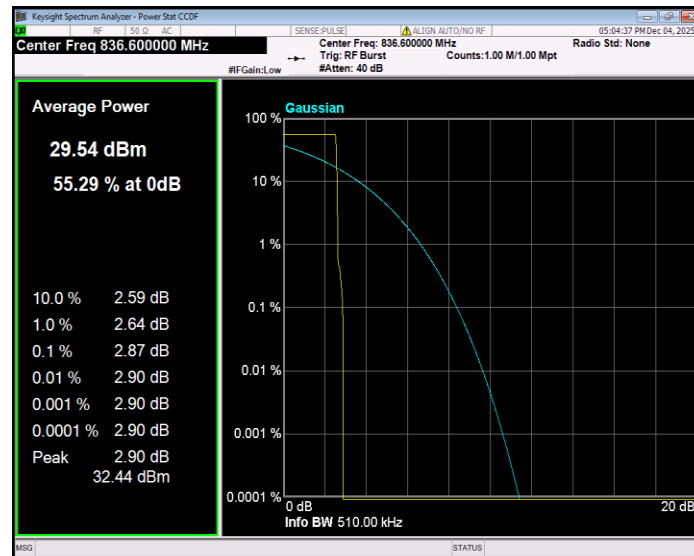
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GSM850 Channel=190



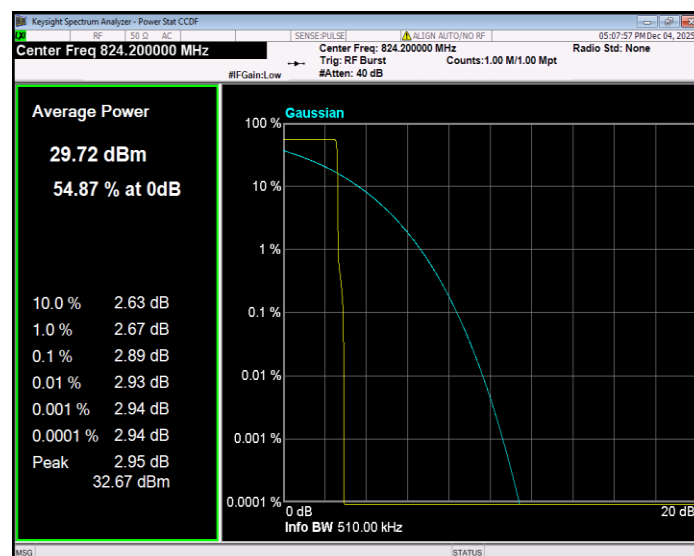
Report



GSM850 Channel=251



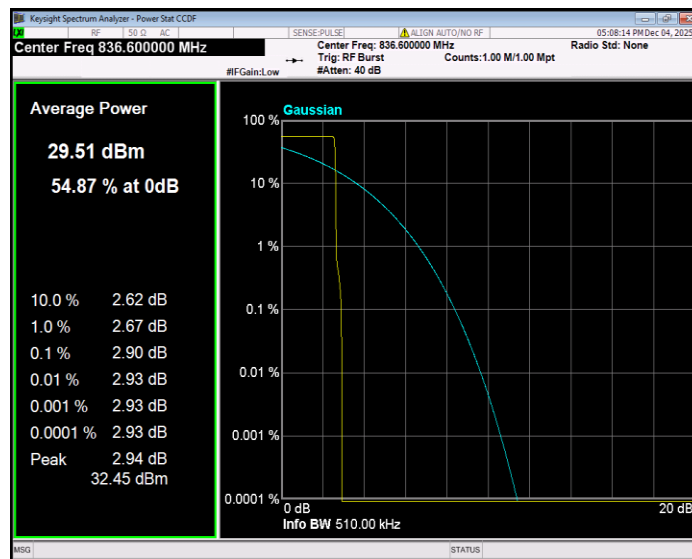
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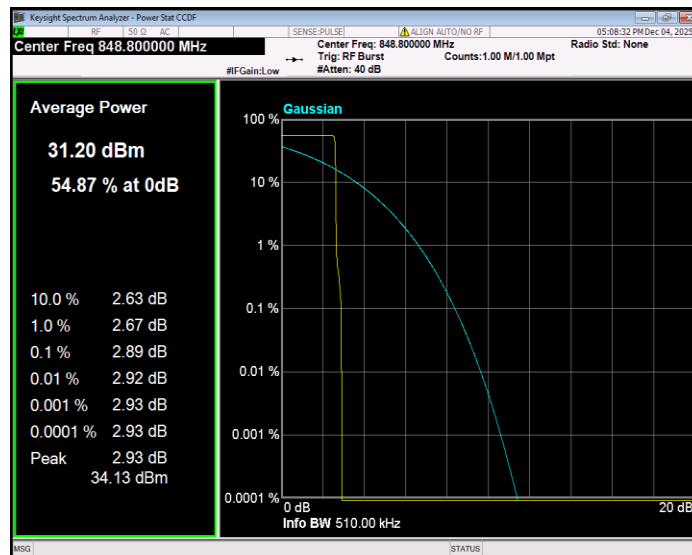


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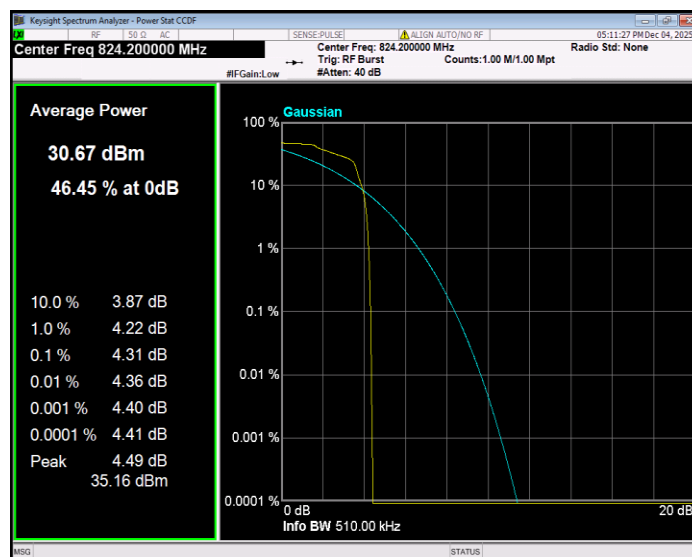
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GPRS850 Channel=251



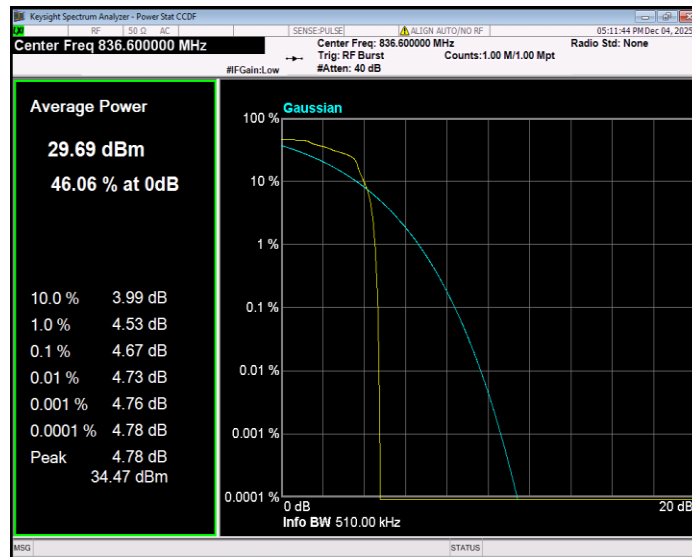
EGPRS850 Channel=128



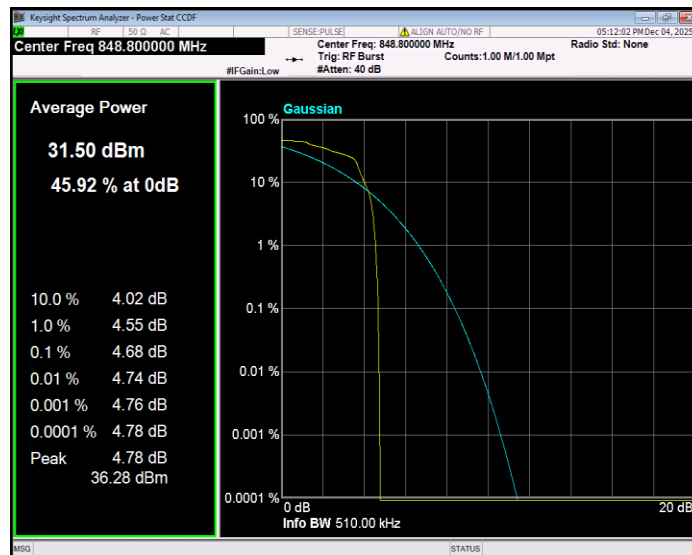


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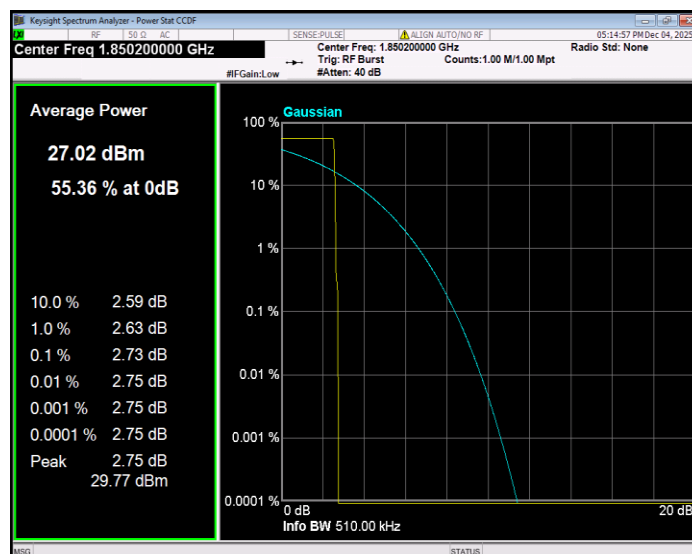
EGPRS850 Channel=190



EGPRS850 Channel=251



GSM1900 Channel=512



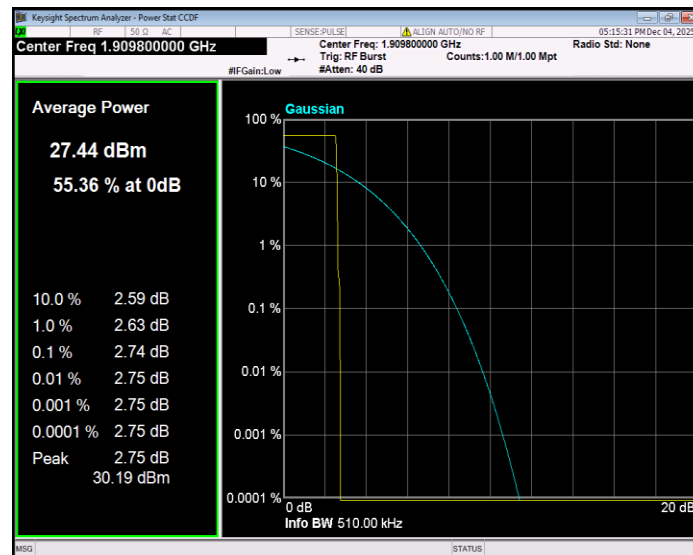


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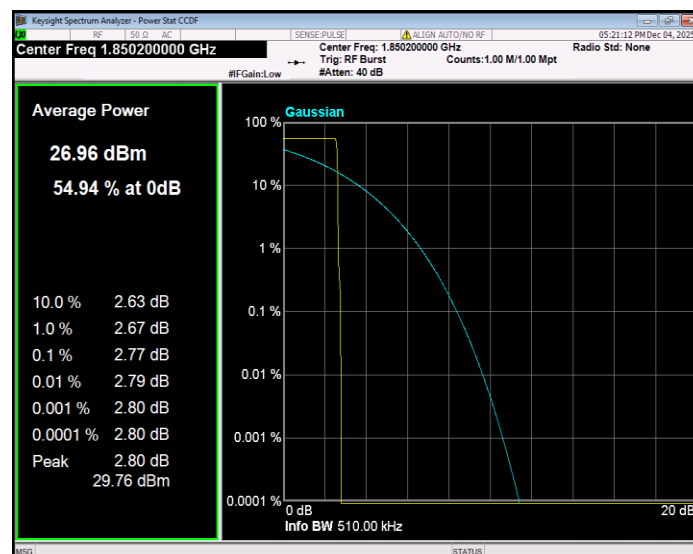
GSM1900 Channel=661



GSM1900 Channel=810



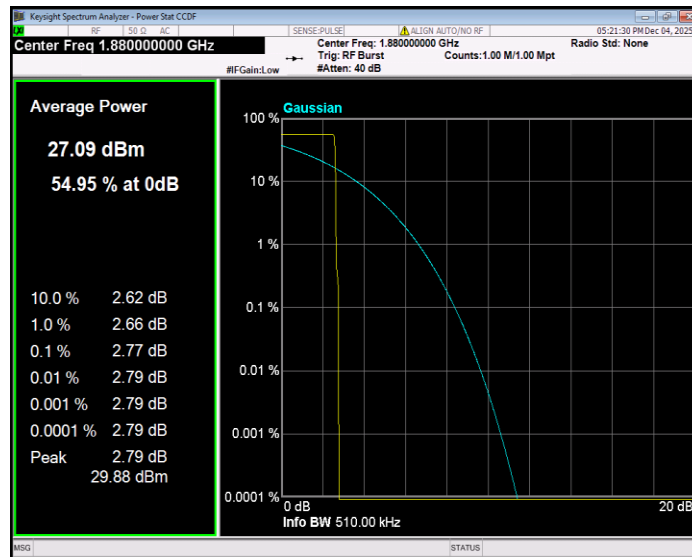
GPRS1900 Channel=512



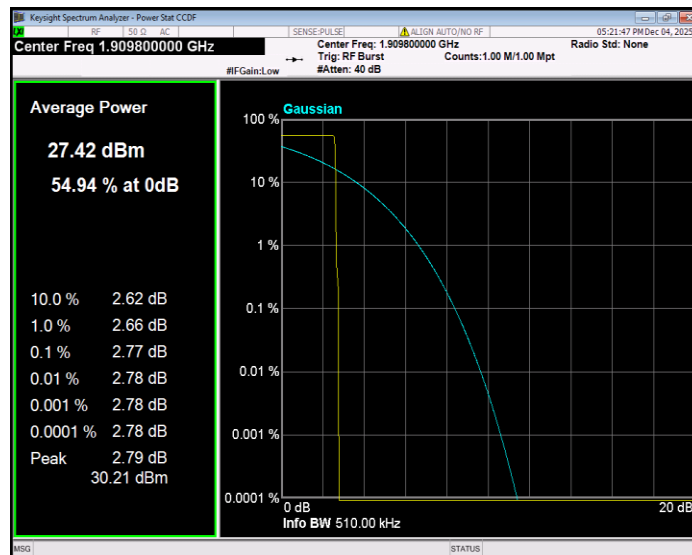


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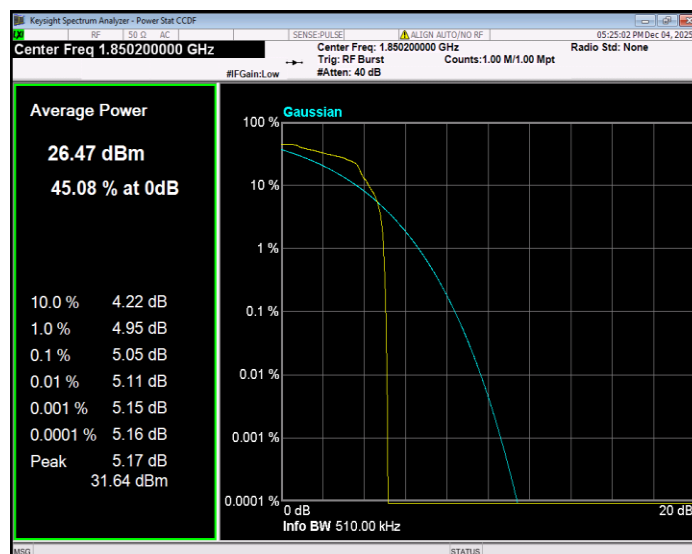
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GPRS1900 Channel=810



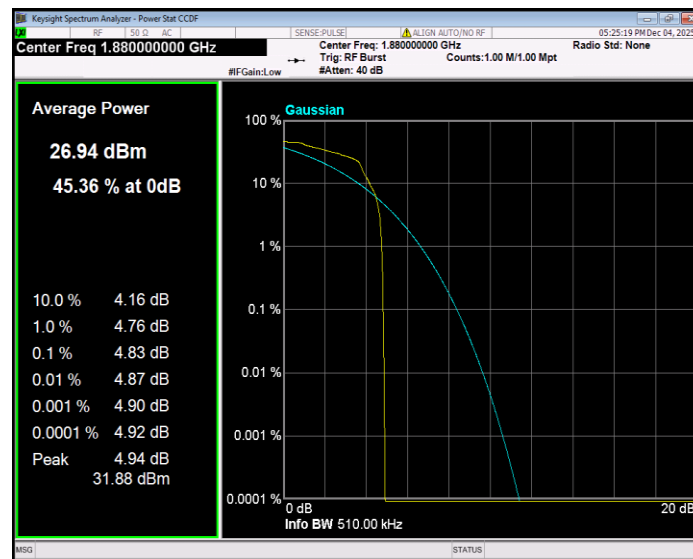
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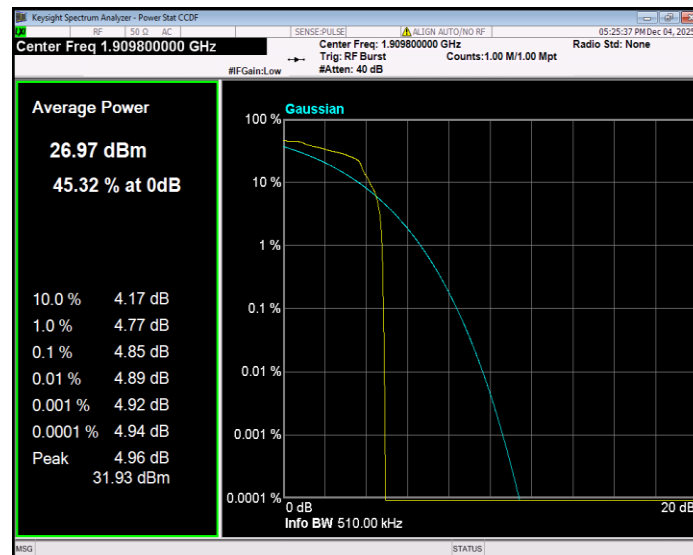


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EGPRS1900 Channel=661



EGPRS1900 Channel=810



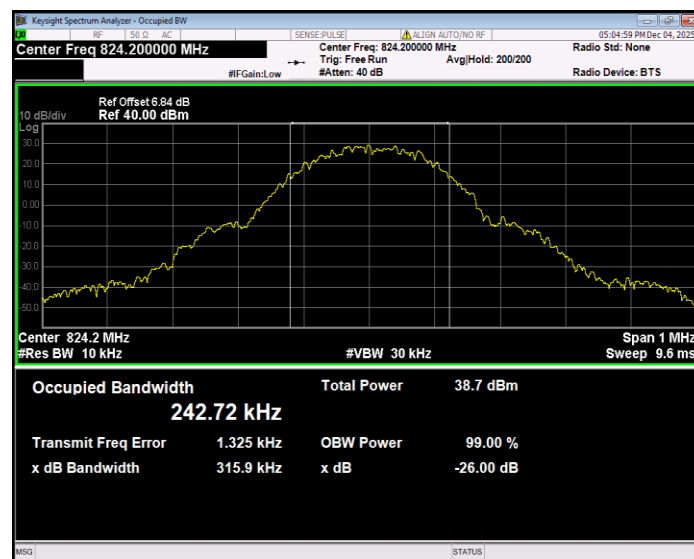


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	242.722	315.856	PASS
GSM850	190	836.6	245.217	314.703	PASS
GSM850	251	848.8	248.499	312.526	PASS
GPRS850	128	824.2	247.691	311.248	PASS
GPRS850	190	836.6	245.290	316.947	PASS
GPRS850	251	848.8	245.039	310.153	PASS
EGPRS850	128	824.2	278.597	345.506	PASS
EGPRS850	190	836.6	275.829	370.754	PASS
EGPRS850	251	848.8	274.285	341.774	PASS
GSM1900	512	1850.2	244.573	315.144	PASS
GSM1900	661	1880	247.673	317.811	PASS
GSM1900	810	1909.8	245.429	316.751	PASS
GPRS1900	512	1850.2	243.285	313.743	PASS
GPRS1900	661	1880	244.772	317.885	PASS
GPRS1900	810	1909.8	246.077	320.085	PASS
EGPRS1900	512	1850.2	257.813	327.099	PASS
EGPRS1900	661	1880	260.878	341.398	PASS
EGPRS1900	810	1909.8	266.604	330.608	PASS

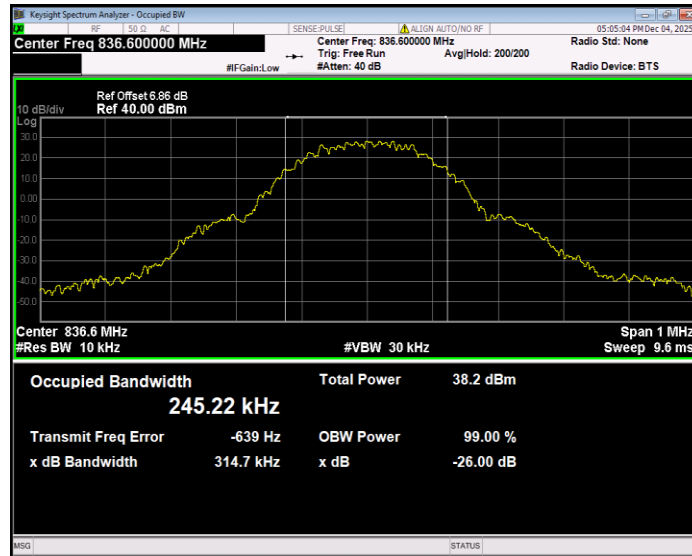
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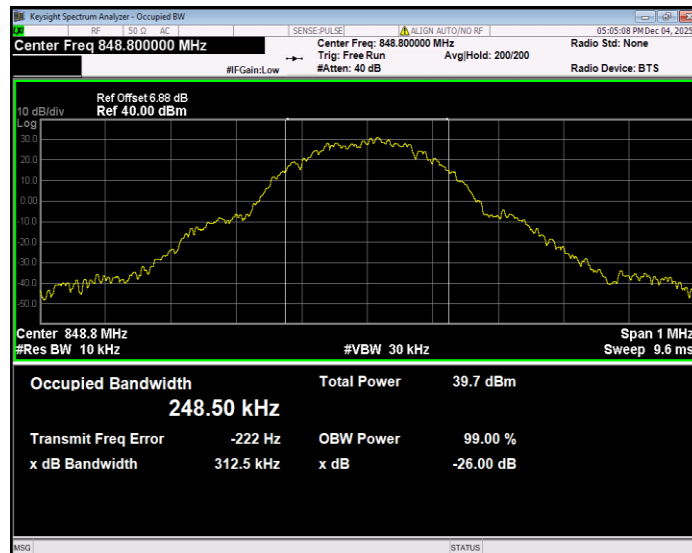
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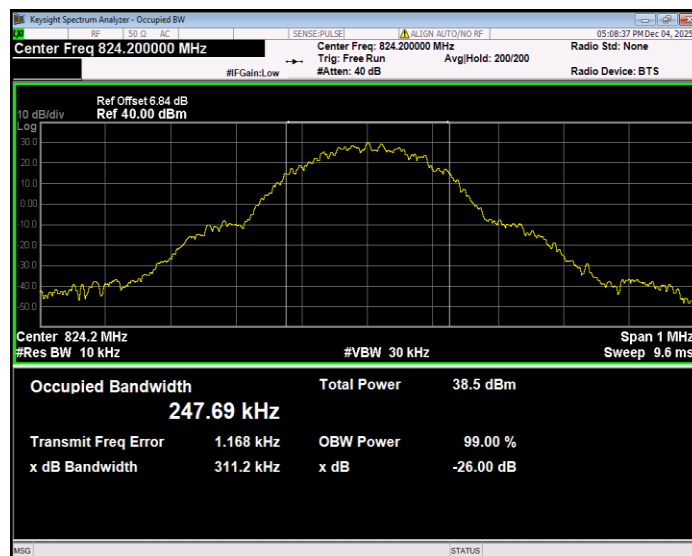
Report



GSM850 Channel=251



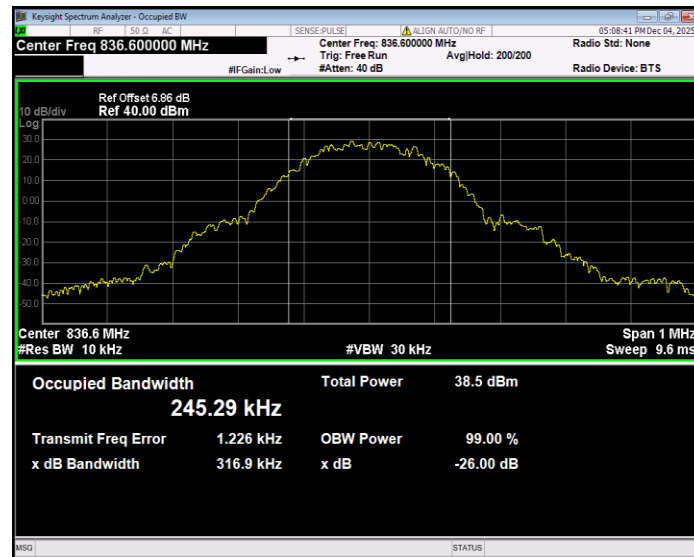
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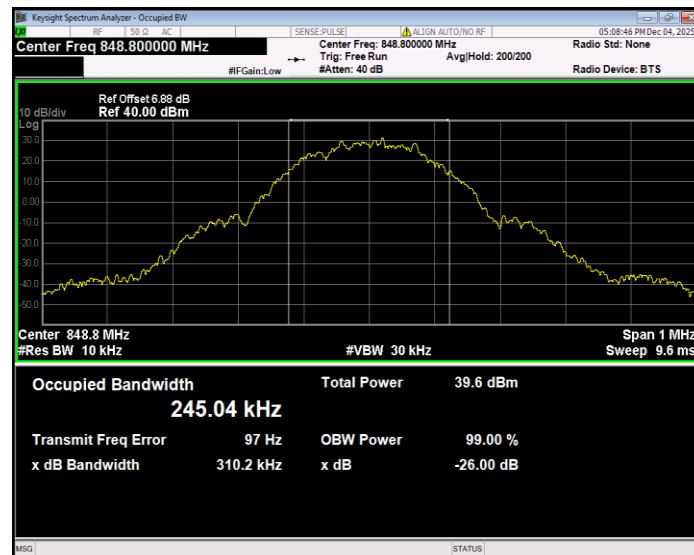


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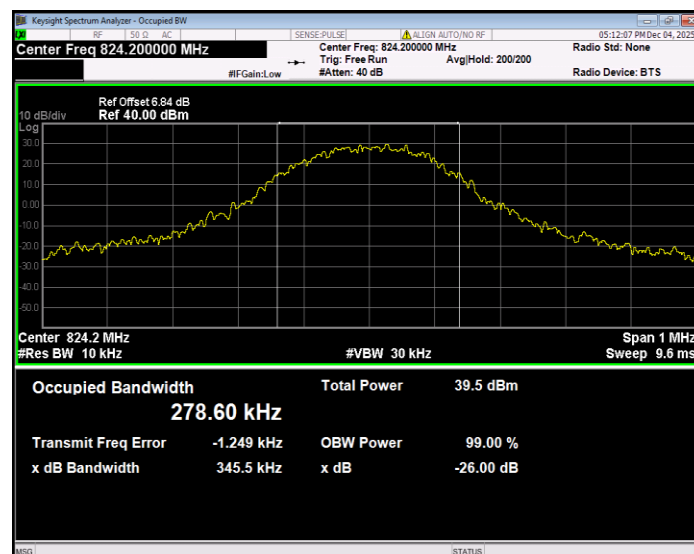
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GPRS850 Channel=251



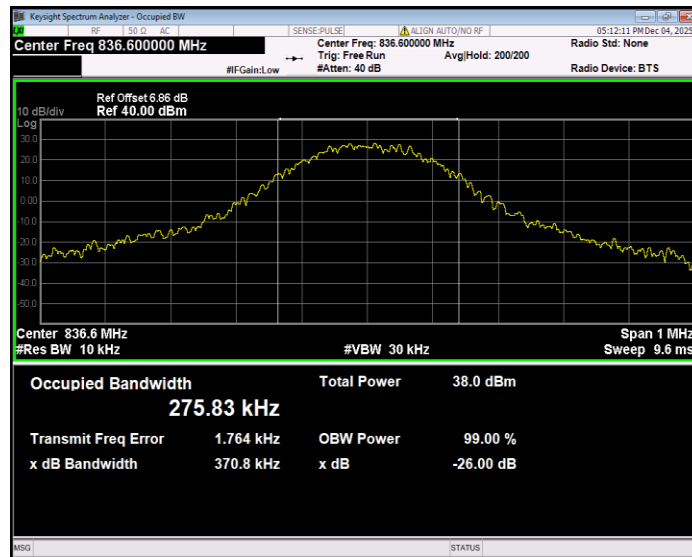
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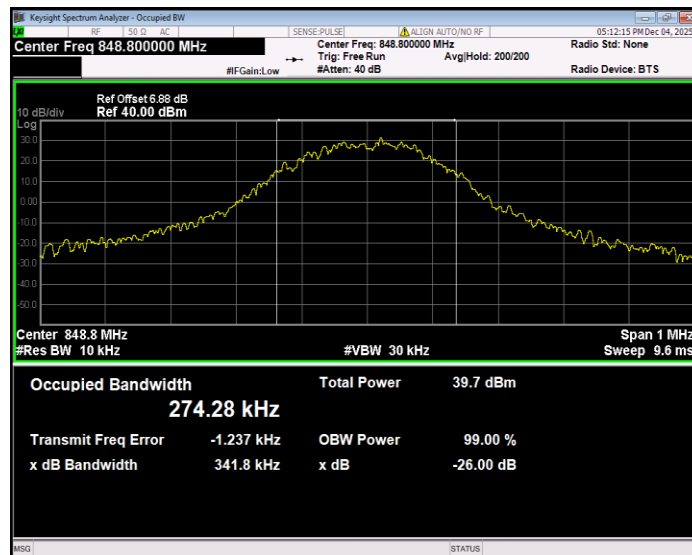


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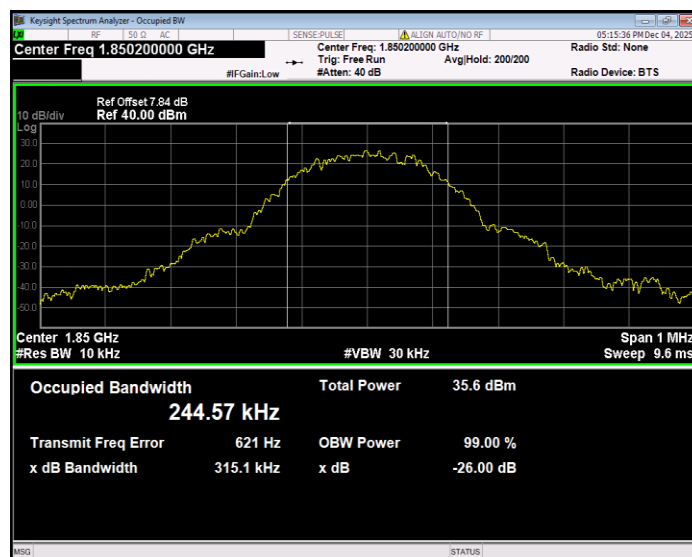
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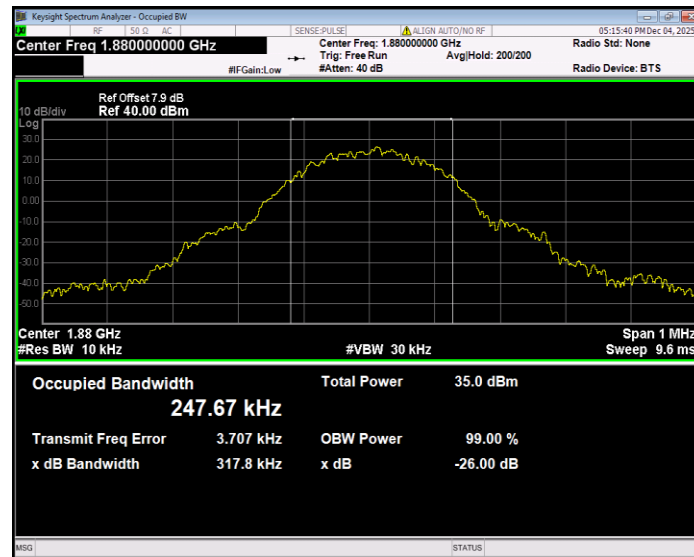
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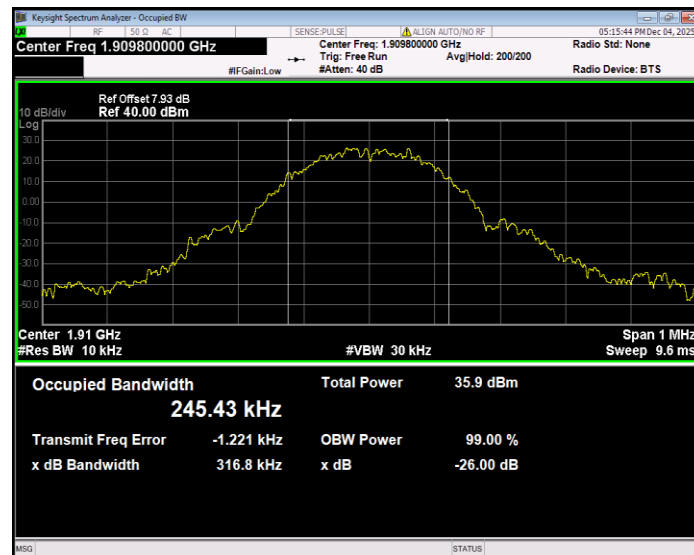


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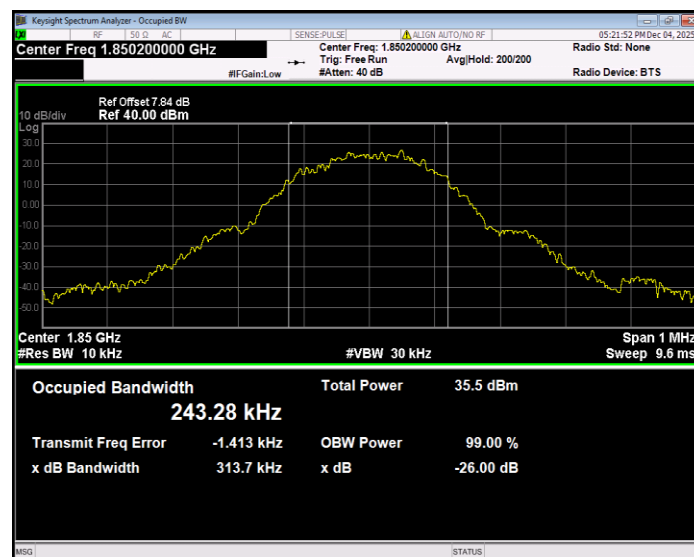
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GSM1900 Channel=810



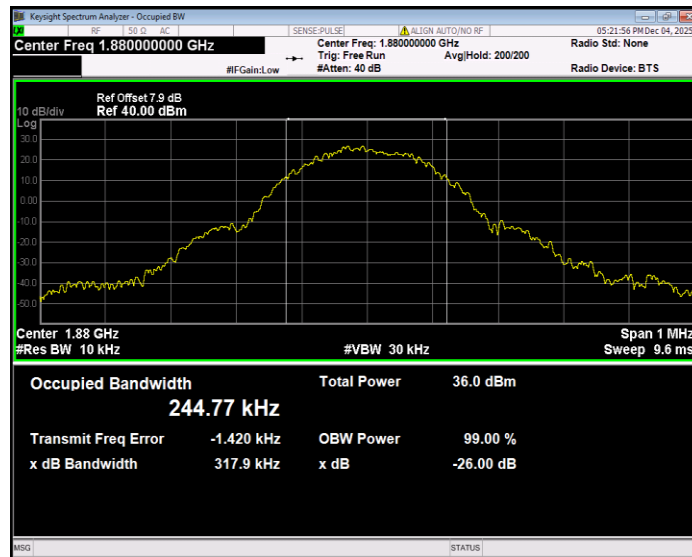
GPRS1900 Channel=512



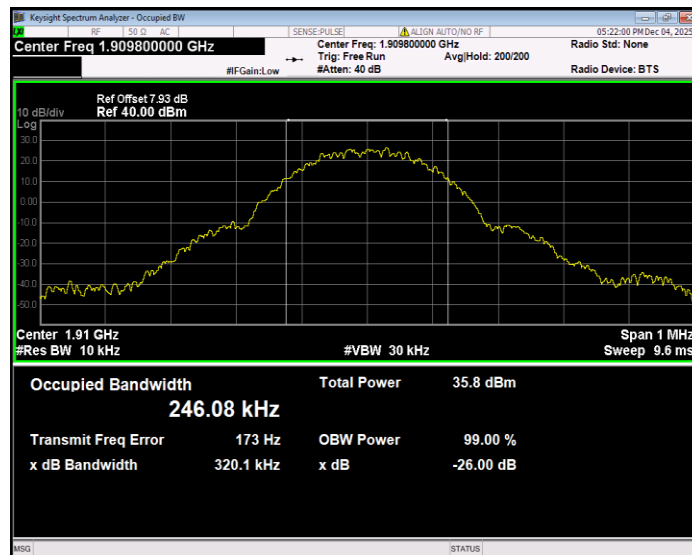


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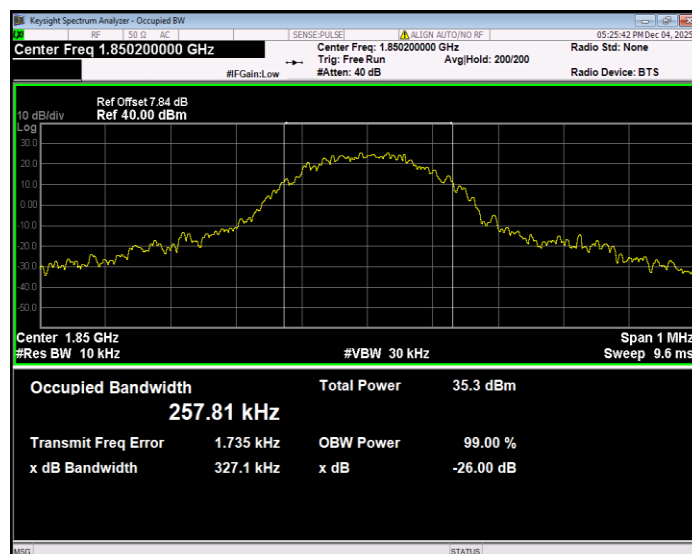
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GPRS1900 Channel=810



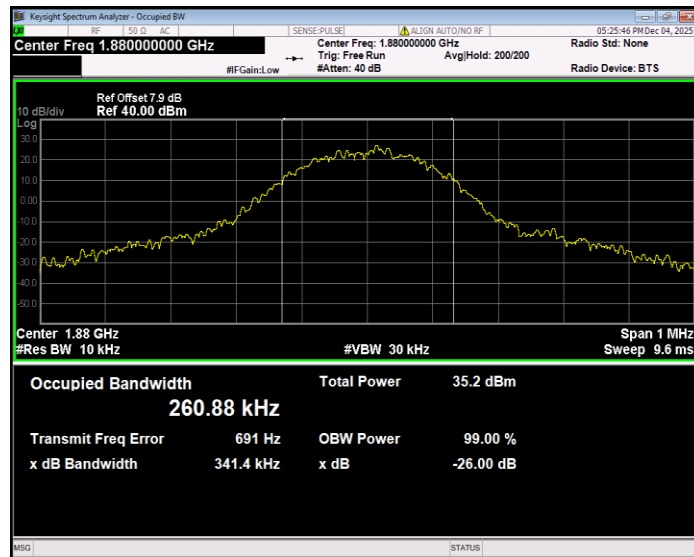
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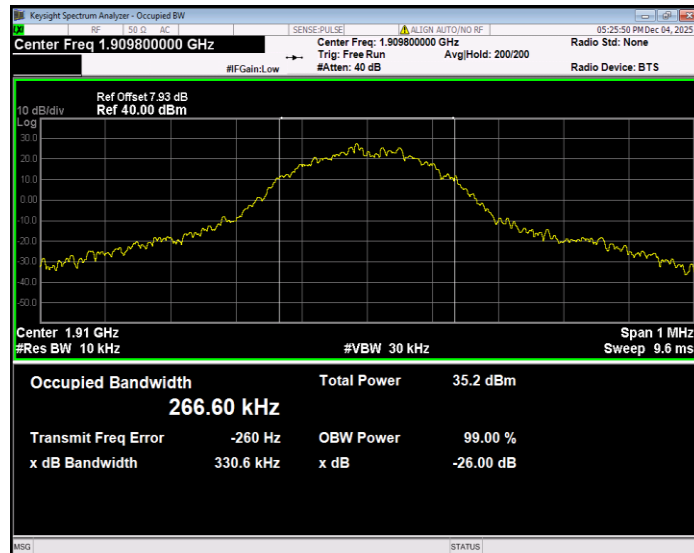


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



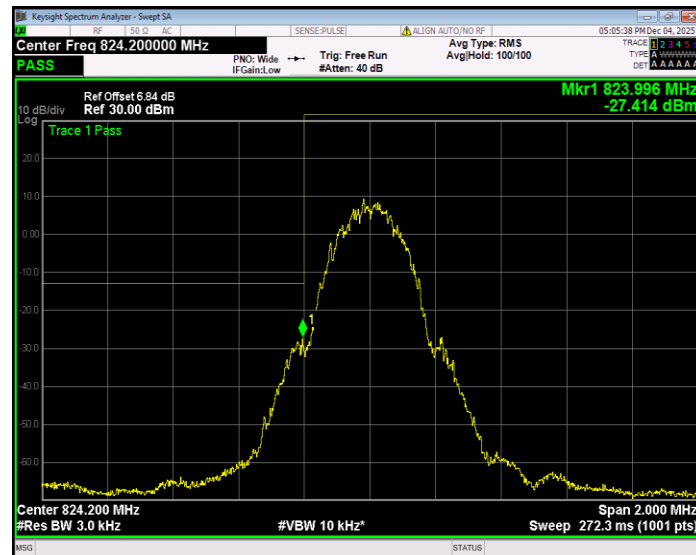


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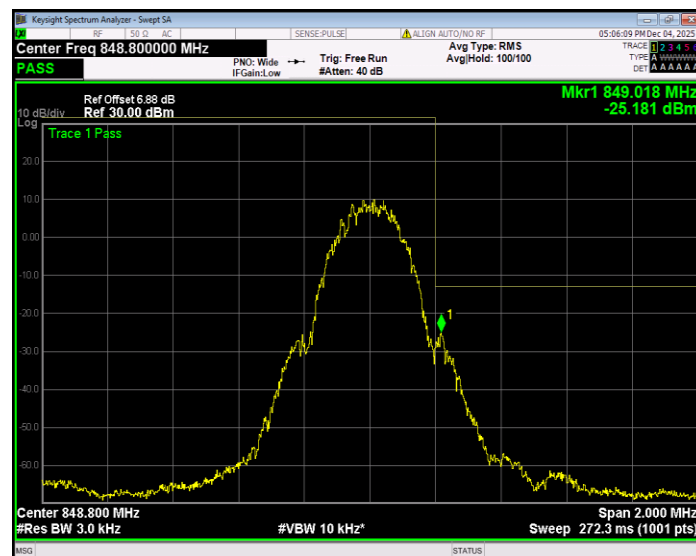
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-27.41	-13	PASS
GSM850	251	848.8	849.02	-25.18	-13	PASS
GPRS850	128	824.2	823.98	-27.12	-13	PASS
GPRS850	251	848.8	849.02	-25.65	-13	PASS
EGPRS850	128	824.2	824.00	-21.18	-13	PASS
EGPRS850	251	848.8	849.00	-22.43	-13	PASS
GSM1900	512	1850.2	1849.99	-29.47	-13	PASS
GSM1900	810	1909.8	1910.02	-29.88	-13	PASS
GPRS1900	512	1850.2	1849.98	-29.30	-13	PASS
GPRS1900	810	1909.8	1910.04	-31.97	-13	PASS
EGPRS1900	512	1850.2	1850.00	-31.43	-13	PASS
EGPRS1900	810	1909.8	1910.00	-31.18	-13	PASS

GSM850 Channel=128



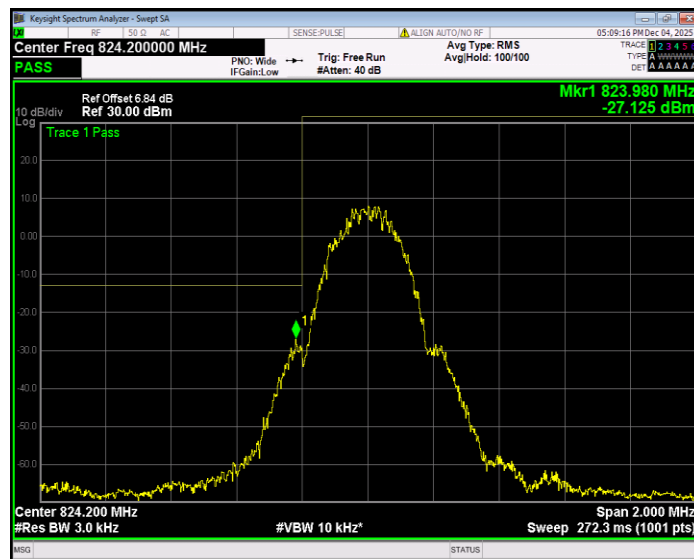
GSM850 Channel=251



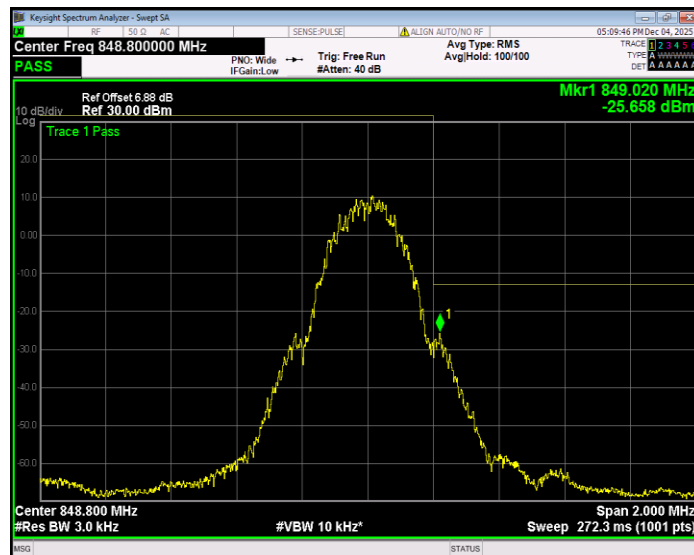


Report

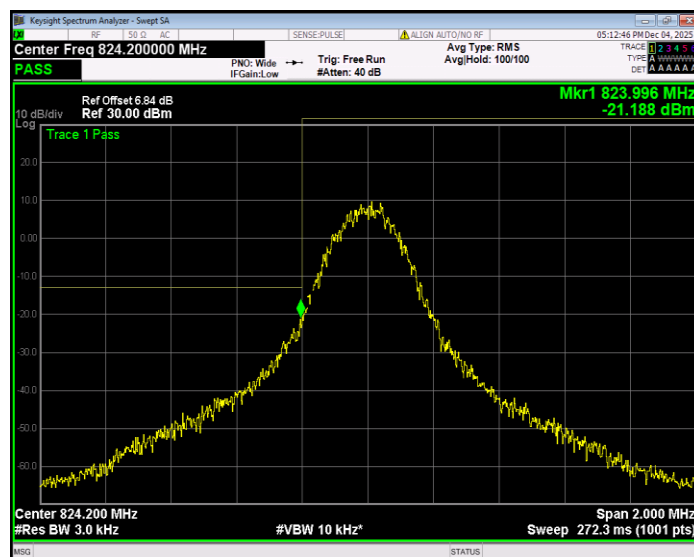
GPRS850 Channel=128



GPRS850 Channel=251



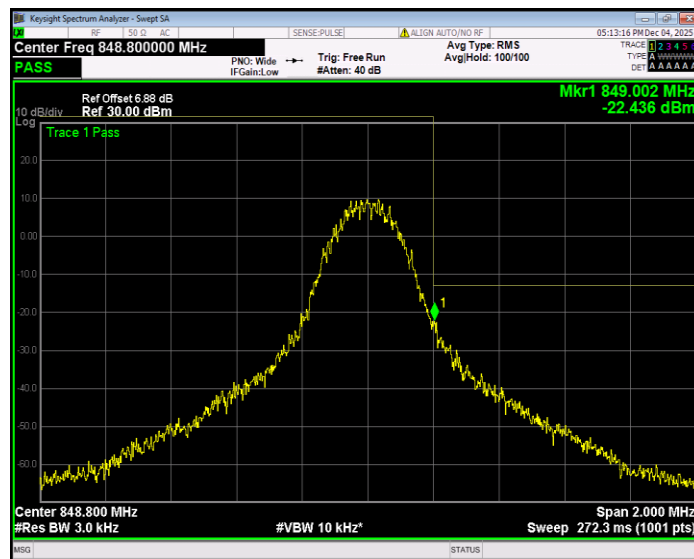
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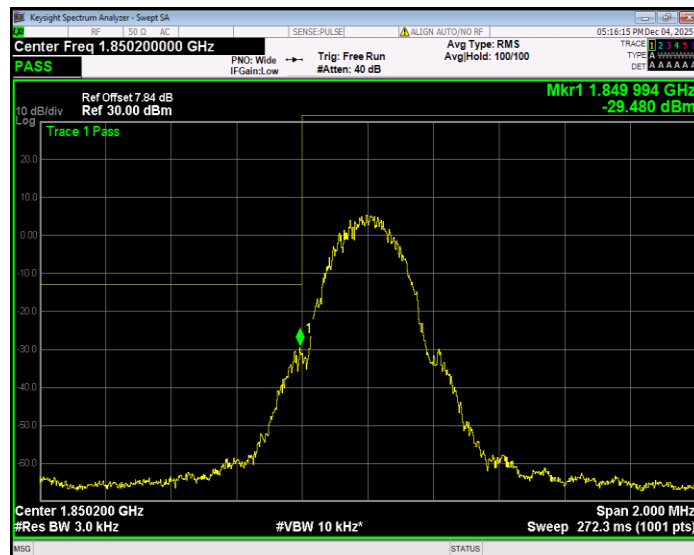


Report

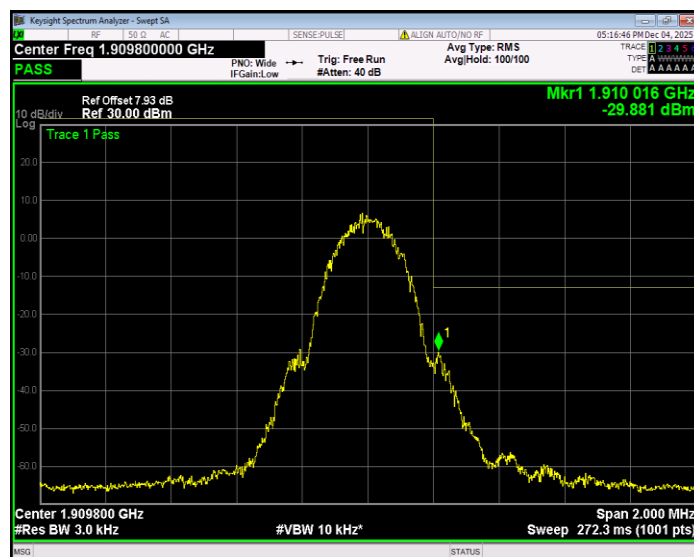
EGPRS850 Channel=251



GSM1900 Channel=512



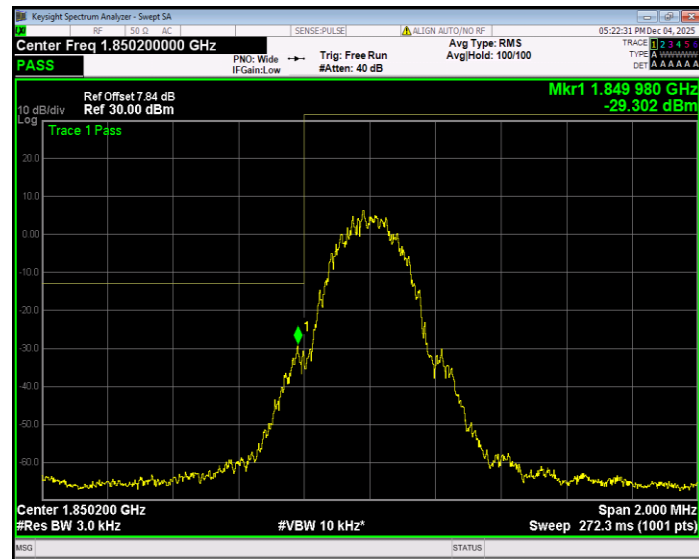
GSM1900 Channel=810



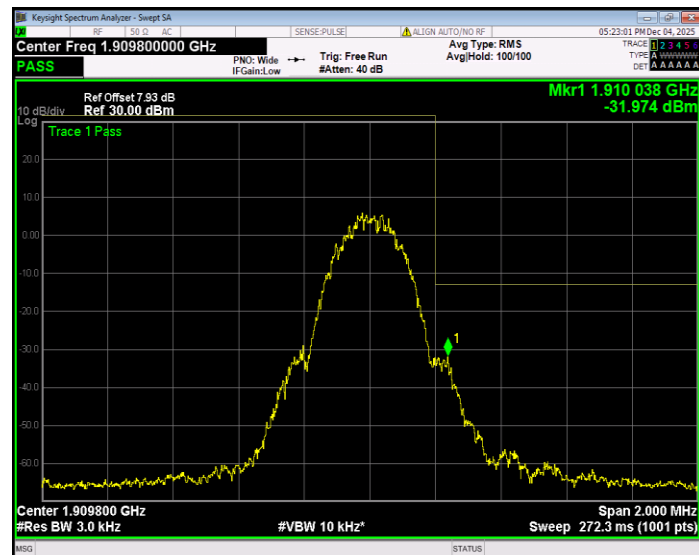


Report

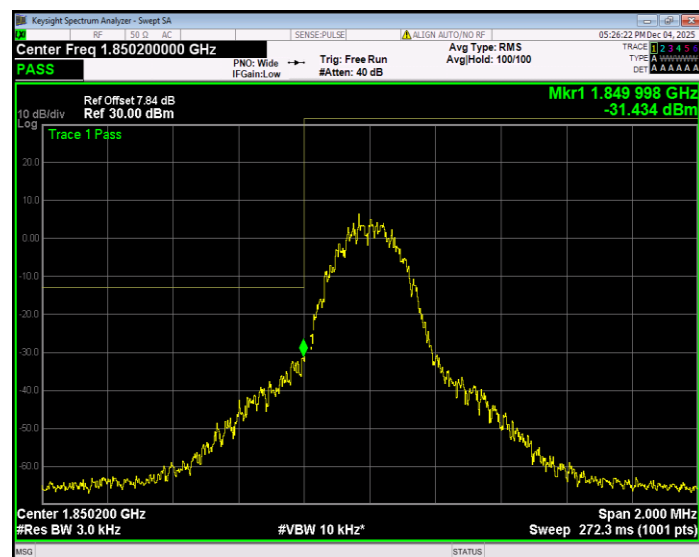
GPRS1900 Channel=512



GPRS1900 Channel=810



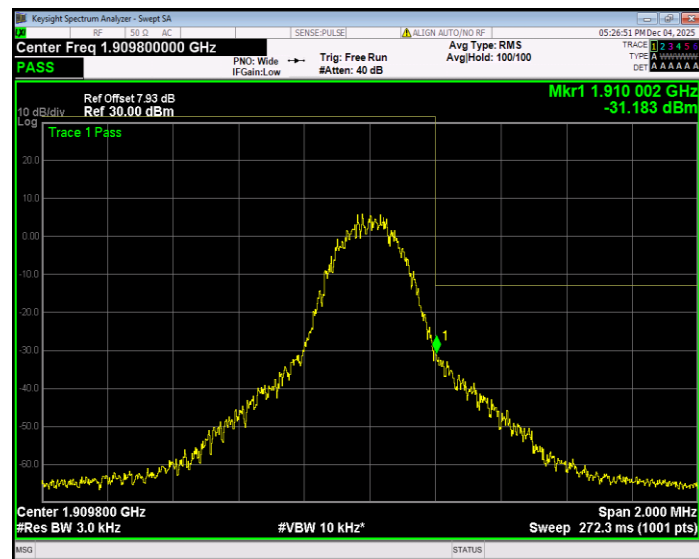
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



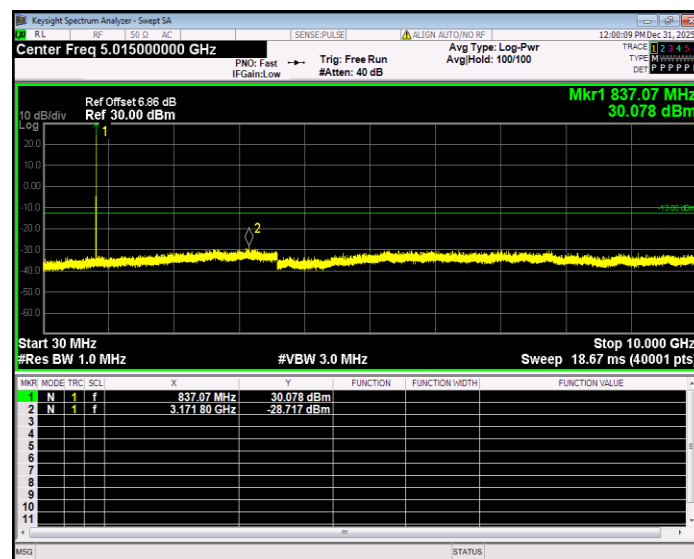


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	3152.60	-28.75	-13	PASS
GSM850	190	836.6	3171.80	-28.71	-13	PASS
GSM850	251	848.8	2778.73	-28.89	-13	PASS
GPRS850	128	824.2	2666.57	-28.88	-13	PASS
GPRS850	190	836.6	2676.54	-28.63	-13	PASS
GPRS850	251	848.8	2678.78	-28.73	-13	PASS
EGPRS850	128	824.2	3156.09	-28.69	-13	PASS
EGPRS850	190	836.6	3248.32	-29.03	-13	PASS
EGPRS850	251	848.8	3255.79	-28.90	-13	PASS
GSM1900	512	1850.2	19092.36	-23.45	-13	PASS
GSM1900	661	1880	19854.72	-24.36	-13	PASS
GSM1900	810	1909.8	18504.25	-24.11	-13	PASS
GPRS1900	512	1850.2	19719.42	-24.06	-13	PASS
GPRS1900	661	1880	18943.59	-24.65	-13	PASS
GPRS1900	810	1909.8	16266.61	-23.97	-13	PASS
EGPRS1900	512	1850.2	19015.48	-23.52	-13	PASS
EGPRS1900	661	1880	16262.12	-23.93	-13	PASS
EGPRS1900	810	1909.8	19719.92	-23.65	-13	PASS

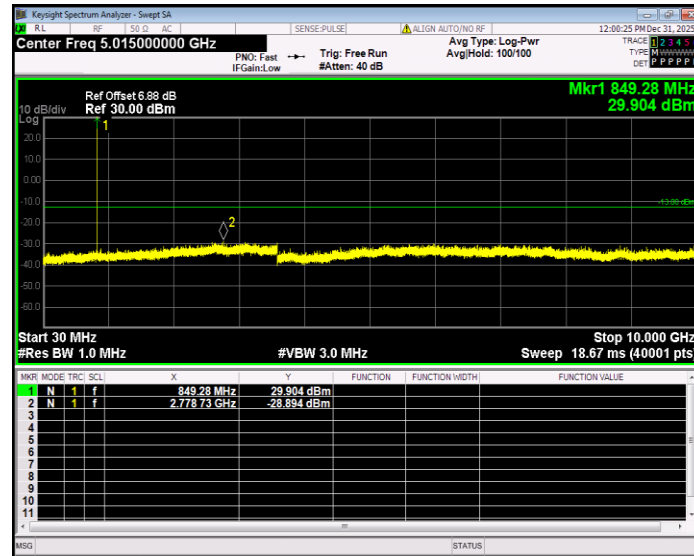
GSM850 Channel=190



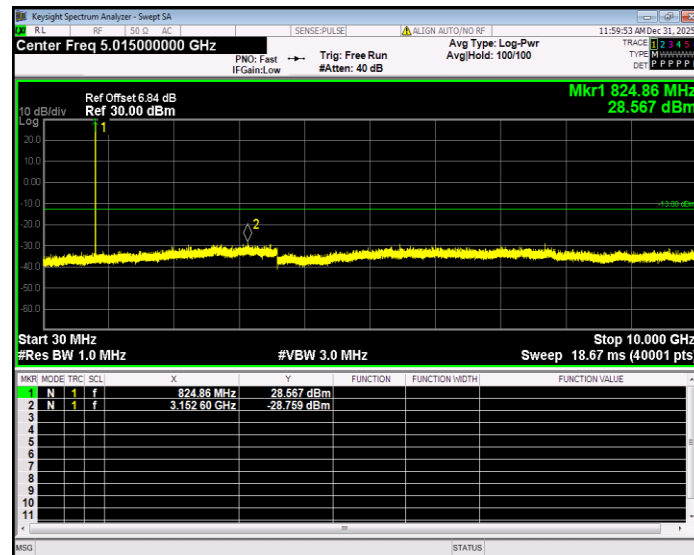
GSM850 Channel=251



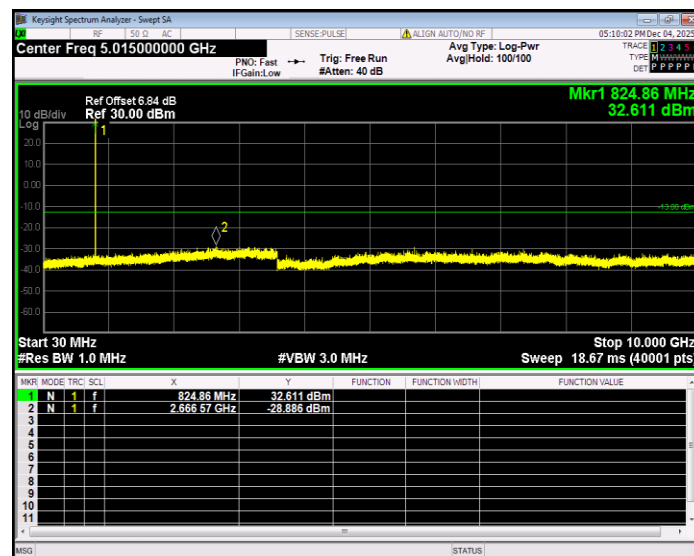
Report



GSM850 Channel=128



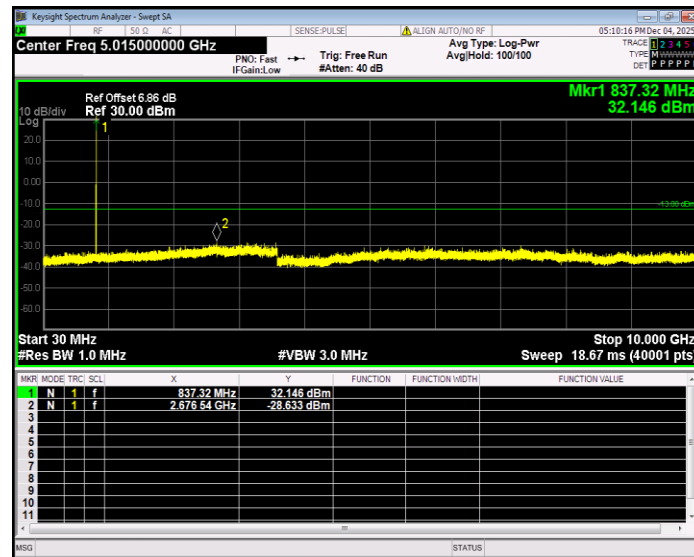
GPRS850 Channel=128



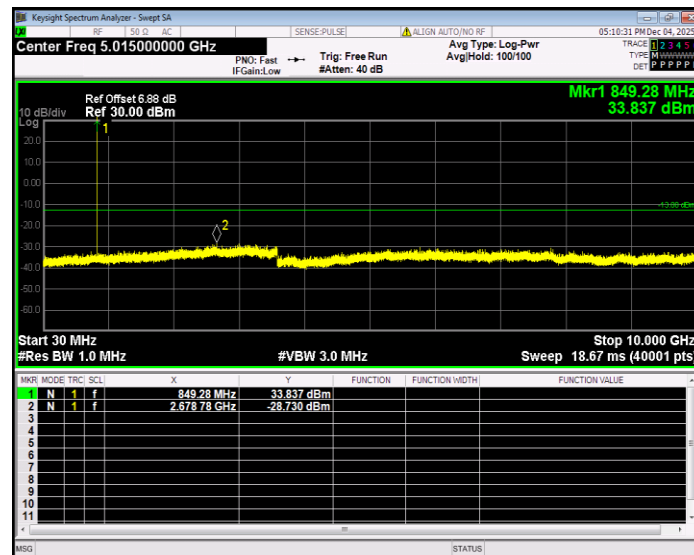


Report

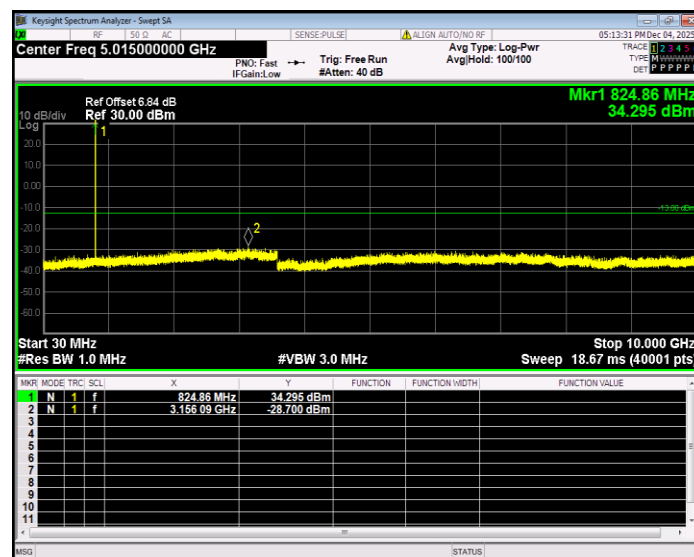
GPRS850 Channel=190



GPRS850 Channel=251



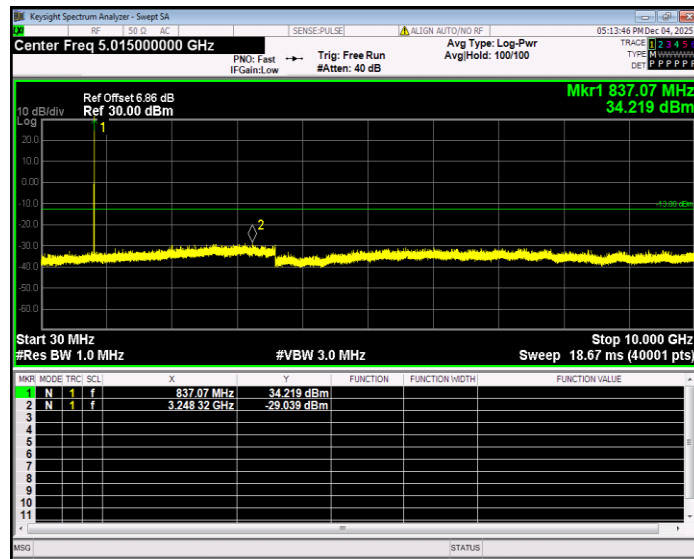
EGPRS850 Channel=128



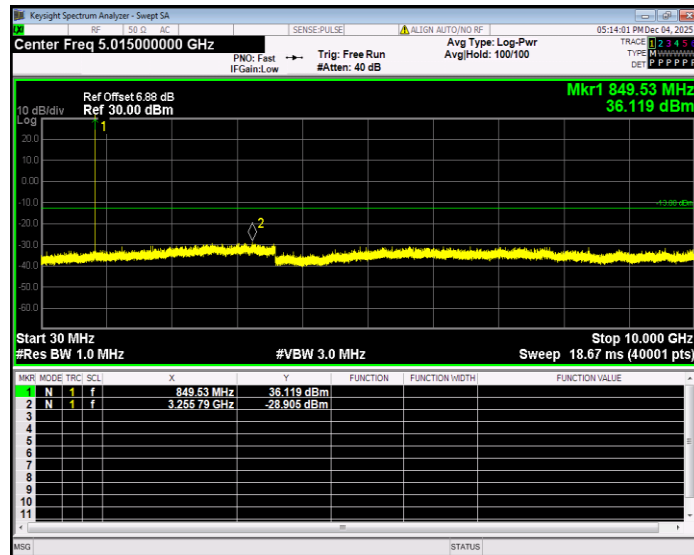


Report

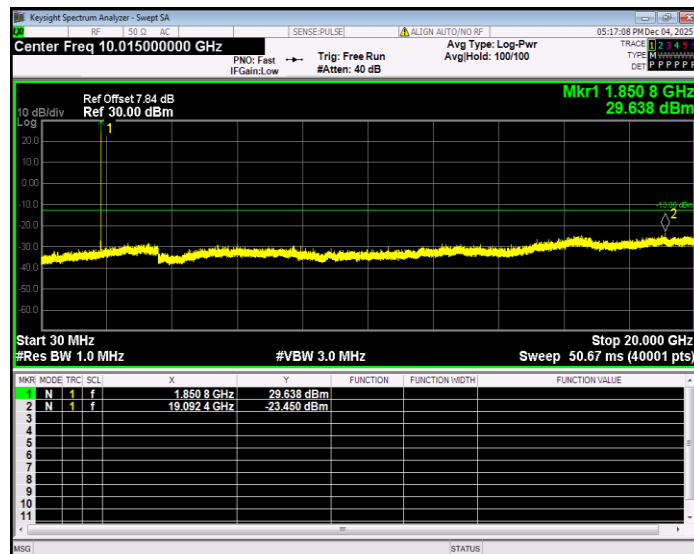
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EGPRS850 Channel=251



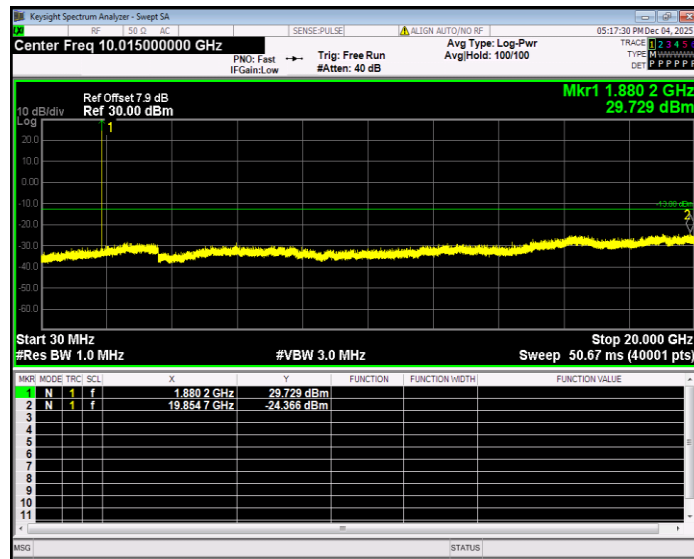
GSM1900 Channel=512



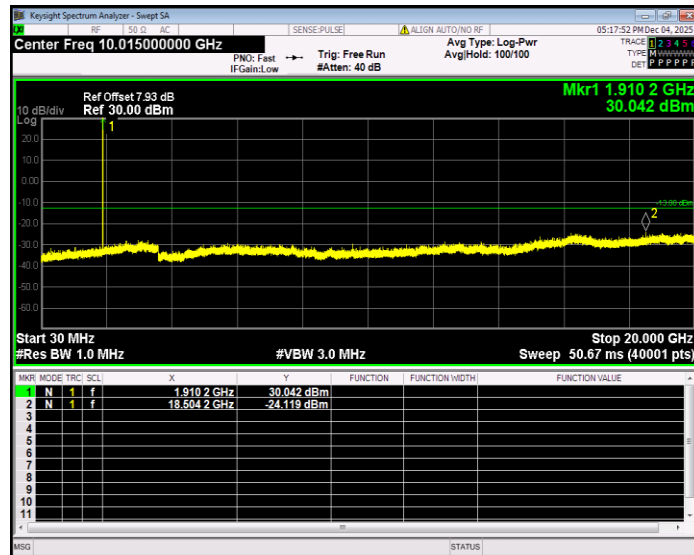


Report

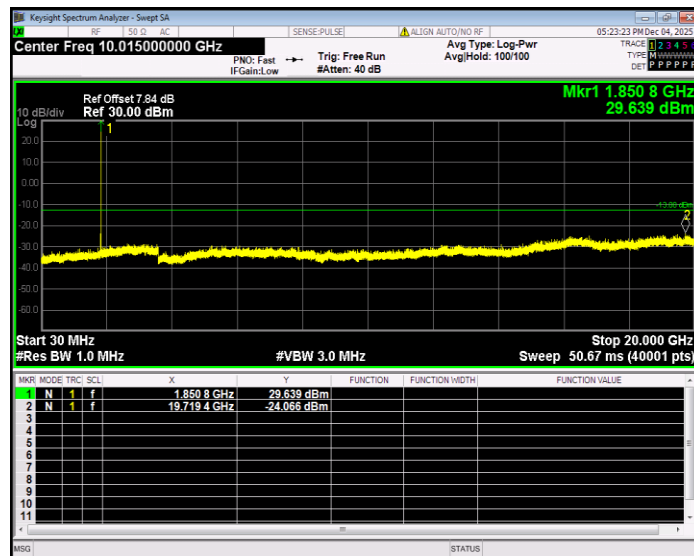
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GSM1900 Channel=810



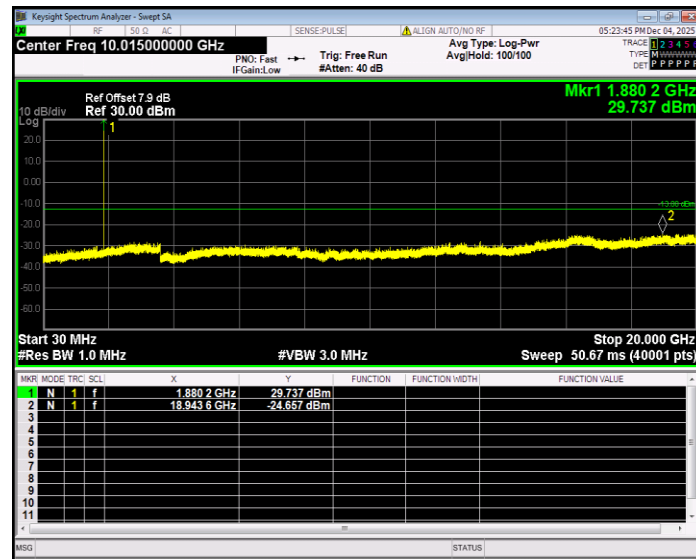
GPRS1900 Channel=512



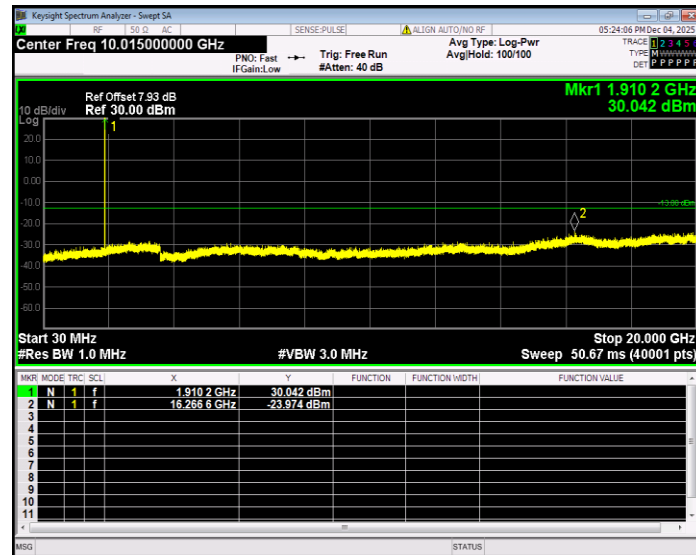


Report

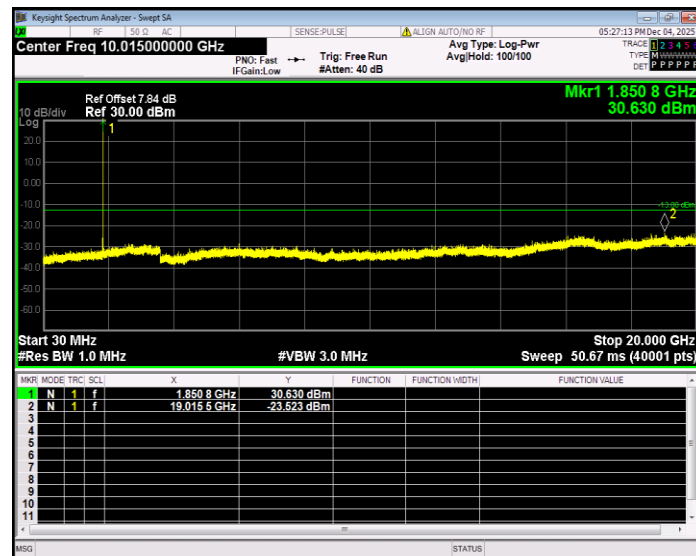
GPRS1900 Channel=661



GPRS1900 Channel=810



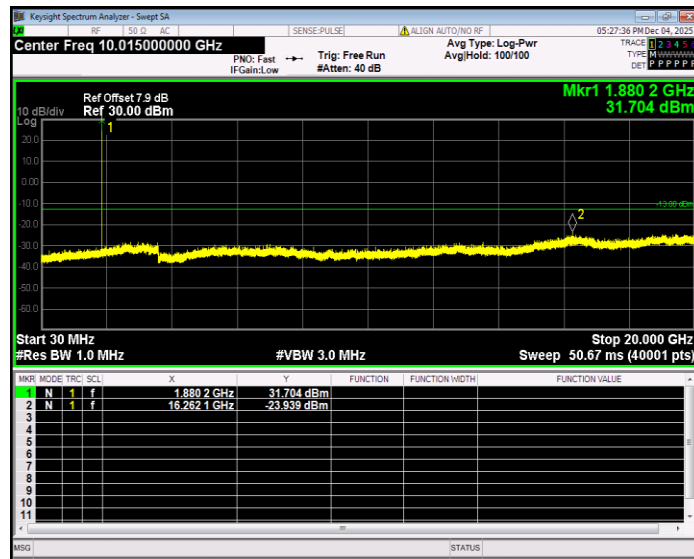
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

