



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	33.81	-4.6	27.06	38.45	PASS
GSM850	190	836.6	33.35	-4.6	26.60	38.45	PASS
GSM850	251	848.8	33.38	-4.6	26.63	38.45	PASS
GPRS850 1 Slot	128	824.2	33.80	-4.6	27.05	38.45	PASS
GPRS850 1 Slot	190	836.6	33.34	-4.6	26.59	38.45	PASS
GPRS850 1 Slot	251	848.8	33.34	-4.6	26.59	38.45	PASS
GPRS850 2 Slot	128	824.2	33.06	-4.6	26.31	38.45	PASS
GPRS850 2 Slot	190	836.6	32.58	-4.6	25.83	38.45	PASS
GPRS850 2 Slot	251	848.8	32.49	-4.6	25.74	38.45	PASS
GPRS850 3 Slot	128	824.2	31.40	-4.6	24.65	38.45	PASS
GPRS850 3 Slot	190	836.6	30.92	-4.6	24.17	38.45	PASS
GPRS850 3 Slot	251	848.8	30.70	-4.6	23.95	38.45	PASS
GPRS850 4 Slot	128	824.2	30.37	-4.6	23.62	38.45	PASS
GPRS850 4 Slot	190	836.6	29.87	-4.6	23.12	38.45	PASS
GPRS850 4 Slot	251	848.8	29.59	-4.6	22.84	38.45	PASS
EGPRS850 1 Slot	128	824.2	27.40	-4.6	20.65	38.45	PASS
EGPRS850 1 Slot	190	836.6	27.59	-4.6	20.84	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.96	-4.6	21.21	38.45	PASS
EGPRS850 2 Slot	128	824.2	26.76	-4.6	20.01	38.45	PASS
EGPRS850 2 Slot	190	836.6	26.72	-4.6	19.97	38.45	PASS
EGPRS850 2 Slot	251	848.8	26.11	-4.6	19.36	38.45	PASS
EGPRS850 3 Slot	128	824.2	24.83	-4.6	18.08	38.45	PASS
EGPRS850 3 Slot	190	836.6	24.28	-4.6	17.53	38.45	PASS
EGPRS850 3 Slot	251	848.8	24.30	-4.6	17.55	38.45	PASS
EGPRS850 4 Slot	128	824.2	23.92	-4.6	17.17	38.45	PASS
EGPRS850 4 Slot	190	836.6	23.20	-4.6	16.45	38.45	PASS
EGPRS850 4 Slot	251	848.8	22.94	-4.6	16.19	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	31.14	0.5	31.64	33.01	PASS
GSM1900	661	1880	31.12	0.5	31.62	33.01	PASS
GSM1900	810	1909.8	31.15	0.5	31.65	33.01	PASS
GPRS1900 1 Slot	512	1850.2	31.16	0.5	31.66	33.01	PASS
GPRS1900 1 Slot	661	1880	31.17	0.5	31.67	33.01	PASS
GPRS1900 1 Slot	810	1909.8	31.15	0.5	31.65	33.01	PASS
GPRS1900 2 Slot	512	1850.2	30.32	0.5	30.82	33.01	PASS
GPRS1900 2 Slot	661	1880	30.32	0.5	30.82	33.01	PASS
GPRS1900 2 Slot	810	1909.8	30.33	0.5	30.83	33.01	PASS
GPRS1900 3 Slot	512	1850.2	28.16	0.5	28.66	33.01	PASS
GPRS1900 3 Slot	661	1880	28.14	0.5	28.64	33.01	PASS
GPRS1900 3 Slot	810	1909.8	28.20	0.5	28.70	33.01	PASS
GPRS1900 4 Slot	512	1850.2	26.82	0.5	27.32	33.01	PASS
GPRS1900 4 Slot	661	1880	26.79	0.5	27.29	33.01	PASS
GPRS1900 4 Slot	810	1909.8	26.84	0.5	27.34	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	26.78	0.5	27.28	33.01	PASS
EGPRS1900 1 Slot	661	1880	26.25	0.5	26.75	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	26.32	0.5	26.82	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	25.37	0.5	25.87	33.01	PASS
EGPRS1900 2 Slot	661	1880	25.66	0.5	26.16	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	25.52	0.5	26.02	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	23.06	0.5	23.56	33.01	PASS
EGPRS1900 3 Slot	661	1880	23.20	0.5	23.70	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	23.03	0.5	23.53	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	22.04	0.5	22.54	33.01	PASS
EGPRS1900 4 Slot	661	1880	22.46	0.5	22.96	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	22.06	0.5	22.56	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	4.44	0.005	2.5ppm	PASS
40		4.39	0.005		
30		4.86	0.006		
20		7.55	0.009		
10		-4.70	-0.006		
0		4.82	0.006		
-10		4.81	0.006		
-20		-4.49	-0.005		
-30		-4.51	-0.005		
20	Maximum Voltage	4.42	0.005		
20	BEP	-4.59	-0.005		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.64	-0.002	2.5ppm	PASS
40		-2.02	-0.002		
30		1.96	0.002		
20		1.84	0.002		
10		-1.98	-0.002		
0		1.86	0.002		
-10		-1.91	-0.002		
-20		-1.71	-0.002		
-30		1.96	0.002		
20	Maximum Voltage	-1.86	-0.002		
20	BEP	-1.69	-0.002		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.04	-0.001	2.5ppm	PASS
40		-1.00	-0.001		
30		-0.83	-0.001		
20		-0.06	0.000		
10		-0.86	-0.001		
0		-0.65	-0.001		
-10		-0.63	-0.001		
-20		-0.73	-0.001		
-30		1.02	0.001		
20	Maximum Voltage	-0.62	-0.001		
20	BEP	-0.84	-0.001		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	2.81	0.001	Within Authorized Band	PASS
40		-3.10	-0.002		
30		-2.83	-0.002		
20		4.26	0.002		
10		-3.07	-0.002		
0		3.13	0.002		
-10		3.04	0.002		
-20		3.00	0.002		
-30		3.21	0.002		
20	Maximum Voltage	-3.12	-0.002		
20	BEP	2.77	0.001		



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GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-5.57	-0.003	Within Authorized Band	PASS
40		5.78	0.003		
30		-6.09	-0.003		
20		9.94	0.005		
10		-5.89	-0.003		
0		-5.54	-0.003		
-10		-6.07	-0.003		
-20		6.07	0.003		
-30		5.56	0.003		
20	Maximum Voltage	5.66	0.003		
20	BEP	-5.73	-0.003		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-2.50	-0.001	Within Authorized Band	PASS
40		2.33	0.001		
30		2.53	0.001		
20		3.58	0.002		
10		2.49	0.001		
0		-2.86	-0.002		
-10		-2.49	-0.001		
-20		-2.66	-0.001		
-30		-2.52	-0.001		
20	Maximum Voltage	-2.68	-0.001		
20	BEP	-2.65	-0.001		

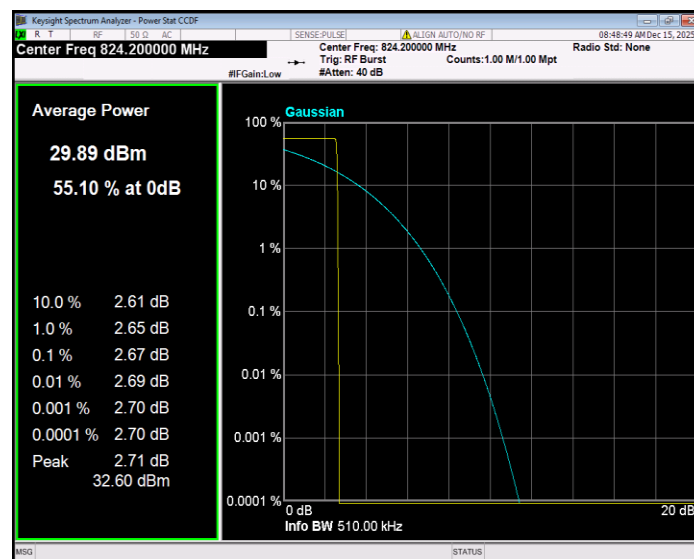


Report

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	2.71	13	PASS
GPRS850	190	836.6	2.70	13	PASS
GPRS850	251	848.8	2.70	13	PASS
EGPRS850	128	824.2	8.89	13	PASS
EGPRS850	190	836.6	7.89	13	PASS
EGPRS850	251	848.8	8.64	13	PASS
GSM1900	512	1850.2	2.68	13	PASS
GSM1900	661	1880	2.68	13	PASS
GSM1900	810	1909.8	2.68	13	PASS
GPRS1900	512	1850.2	2.73	13	PASS
GPRS1900	661	1880	2.71	13	PASS
GPRS1900	810	1909.8	2.71	13	PASS
EGPRS1900	512	1850.2	6.85	13	PASS
EGPRS1900	661	1880	6.65	13	PASS
EGPRS1900	810	1909.8	6.66	13	PASS

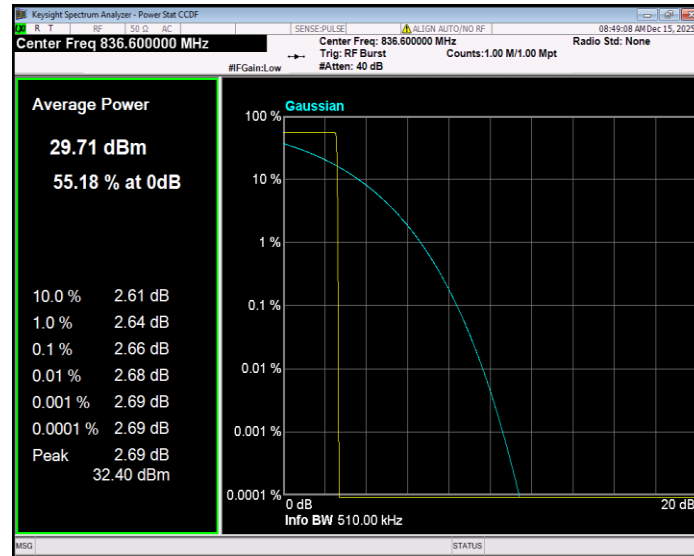
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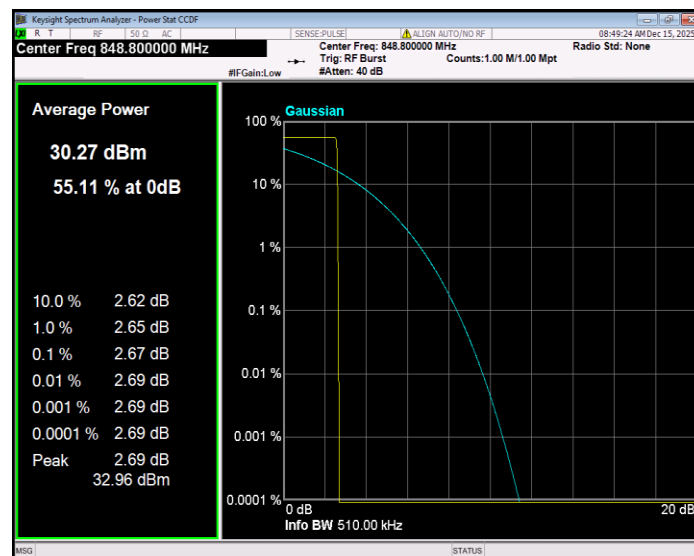
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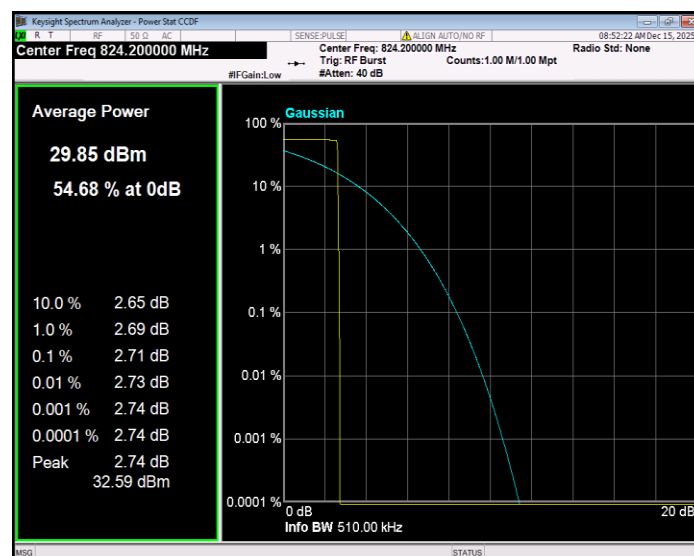
Report



GSM850 Channel=251



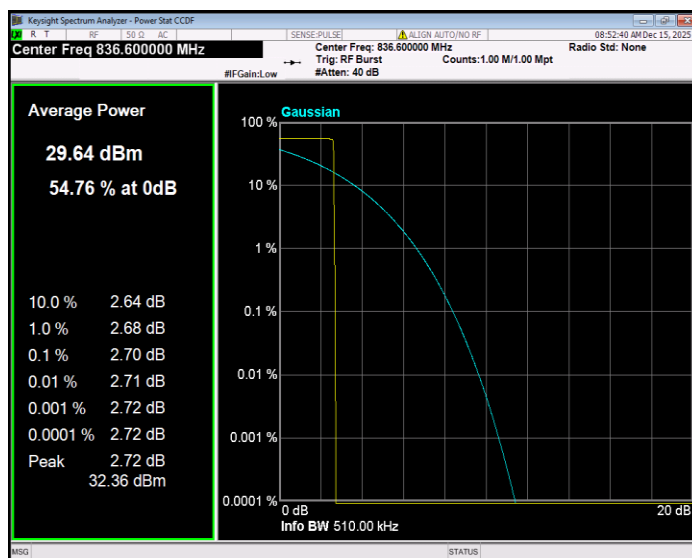
GPRS850 Channel=128



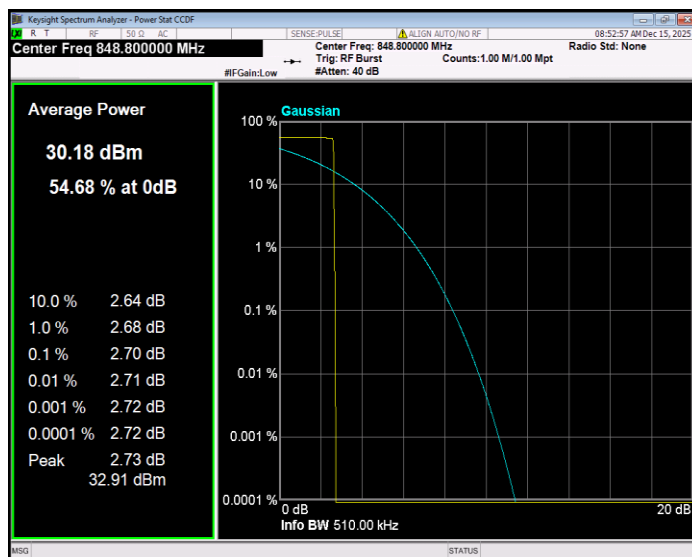


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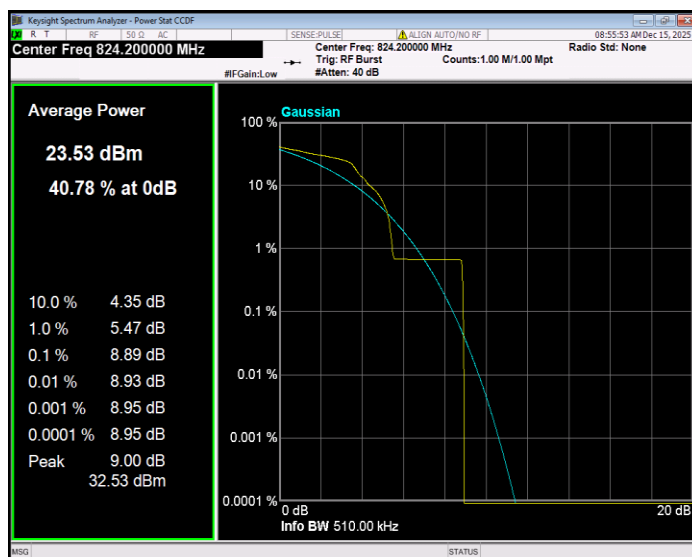
GPRS850 Channel=190



GPRS850 Channel=251



EGPRS850 Channel=128



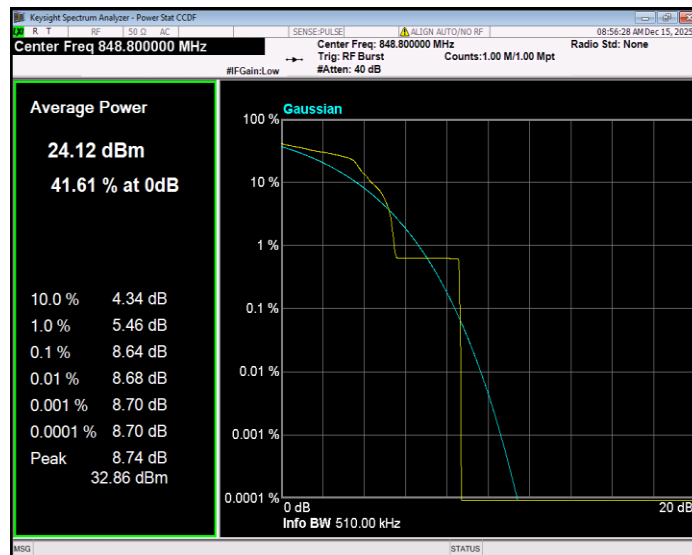


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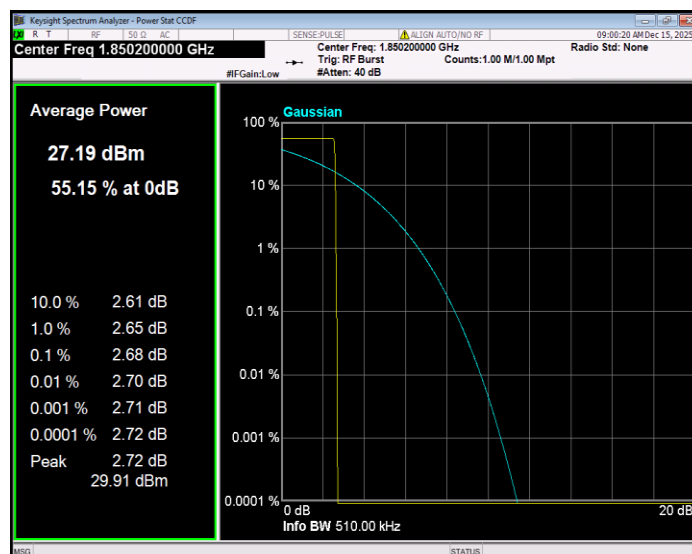
EGPRS850 Channel=190



EGPRS850 Channel=251



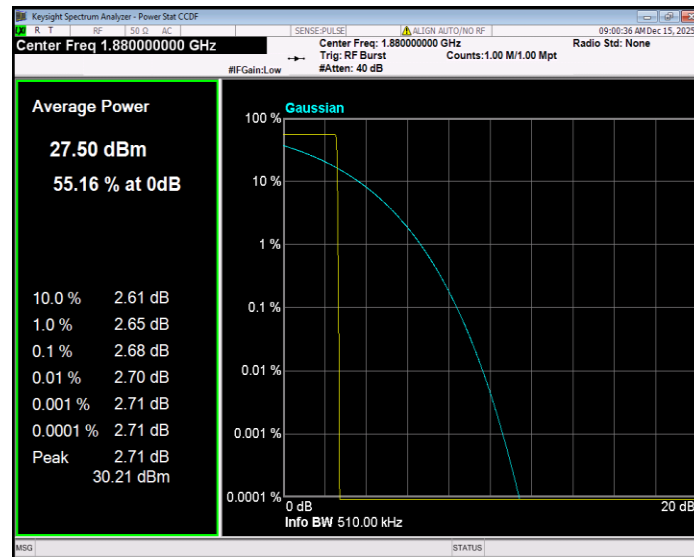
GSM1900 Channel=512





Report

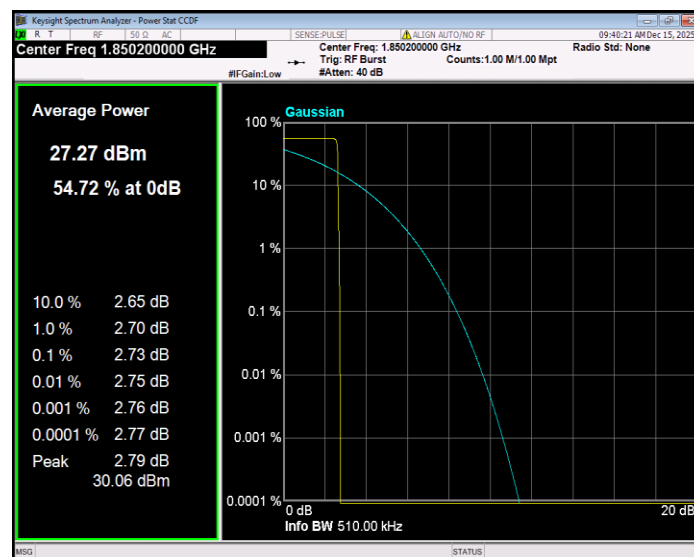
GSM1900 Channel=661



GSM1900 Channel=810



GPRS1900 Channel=512



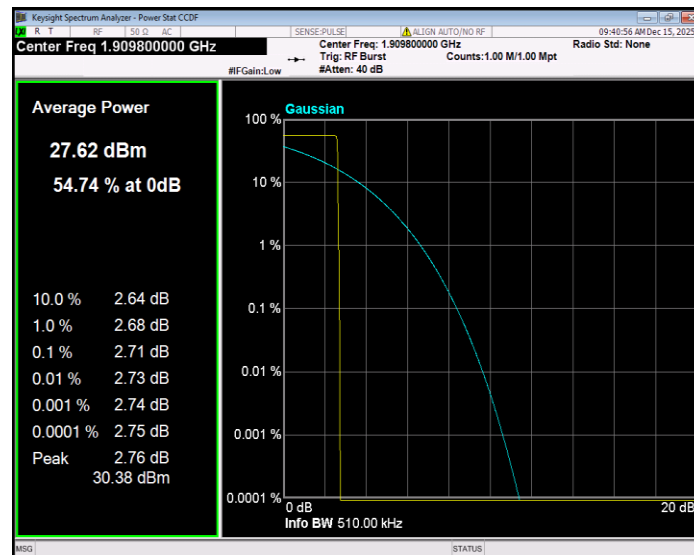


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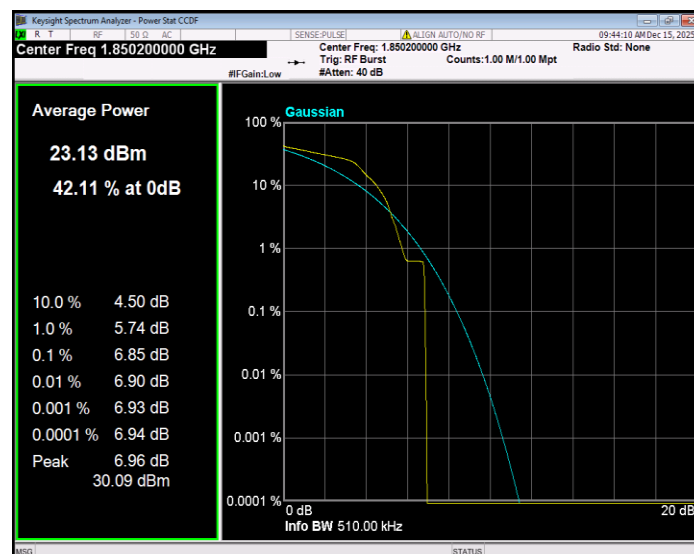
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GPRS1900 Channel=810



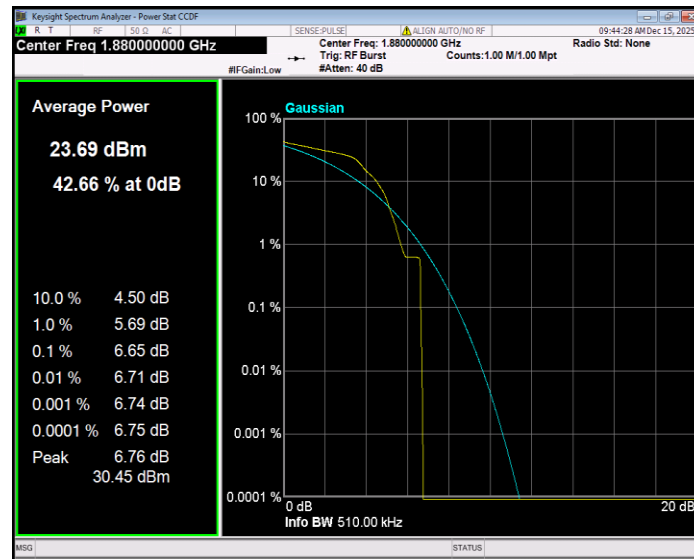
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



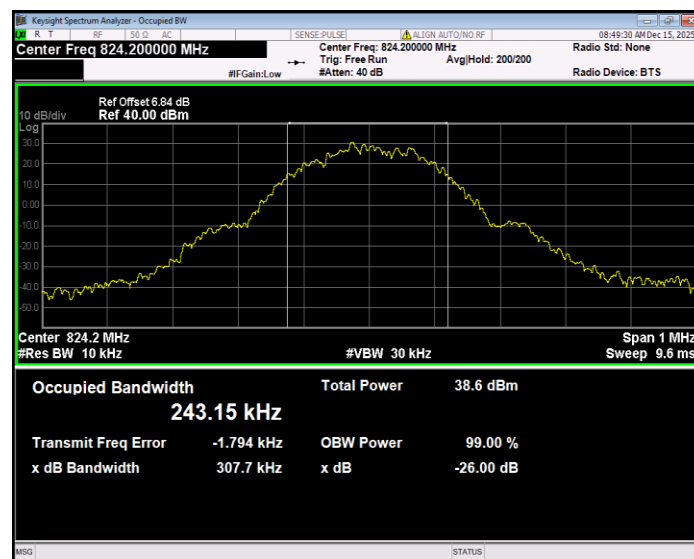


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	243.149	307.734	PASS
GSM850	190	836.6	247.618	317.230	PASS
GSM850	251	848.8	246.620	315.611	PASS
GPRS850	128	824.2	247.843	314.733	PASS
GPRS850	190	836.6	248.380	322.456	PASS
GPRS850	251	848.8	245.849	315.348	PASS
EGPRS850	128	824.2	249.575	303.985	PASS
EGPRS850	190	836.6	252.003	314.592	PASS
EGPRS850	251	848.8	248.115	310.821	PASS
GSM1900	512	1850.2	243.551	311.383	PASS
GSM1900	661	1880	242.078	313.644	PASS
GSM1900	810	1909.8	246.430	317.364	PASS
GPRS1900	512	1850.2	244.682	322.854	PASS
GPRS1900	661	1880	244.924	316.478	PASS
GPRS1900	810	1909.8	247.394	325.963	PASS
EGPRS1900	512	1850.2	248.490	311.411	PASS
EGPRS1900	661	1880	254.379	322.374	PASS
EGPRS1900	810	1909.8	246.745	314.292	PASS

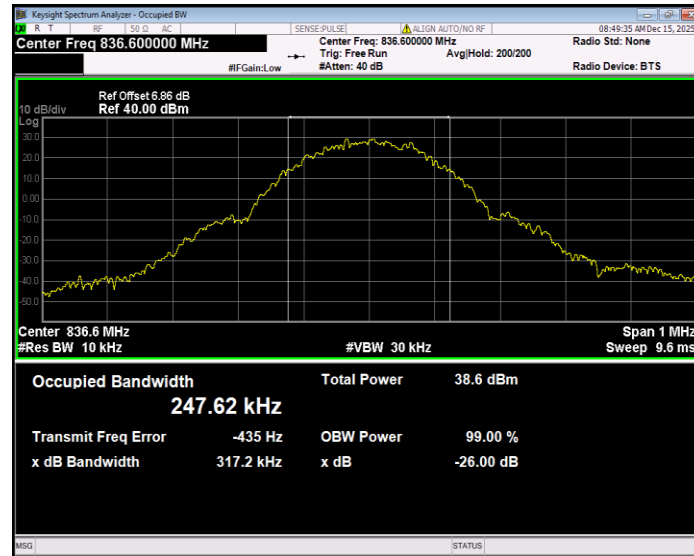
GSM850 Channel=128



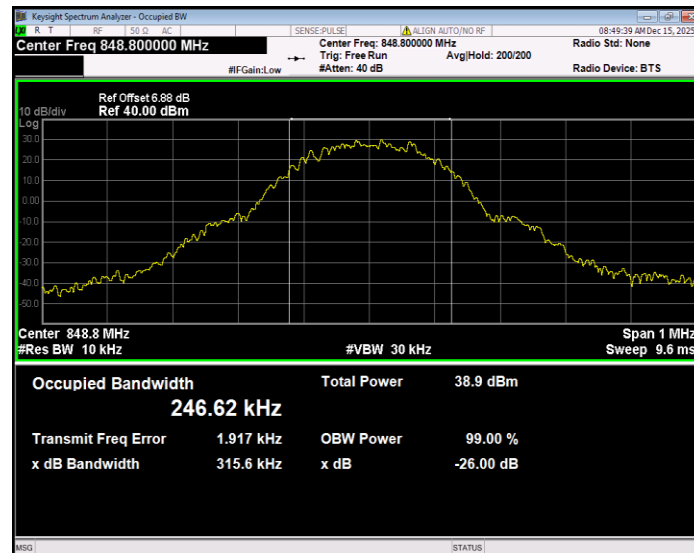
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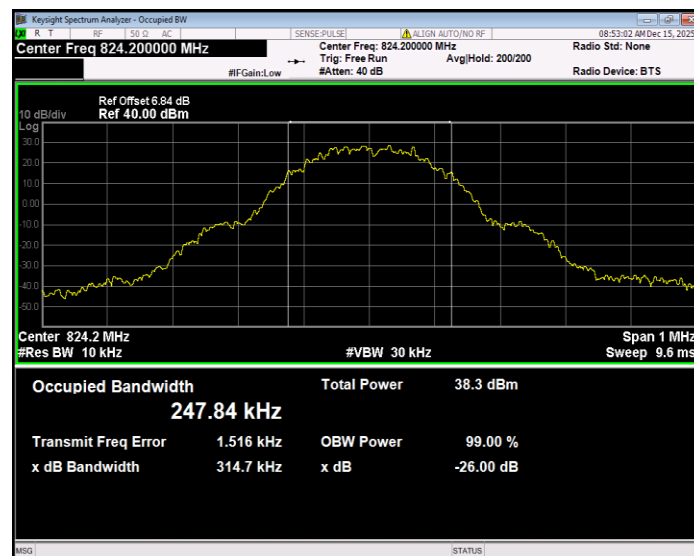
Report



GSM850 Channel=251



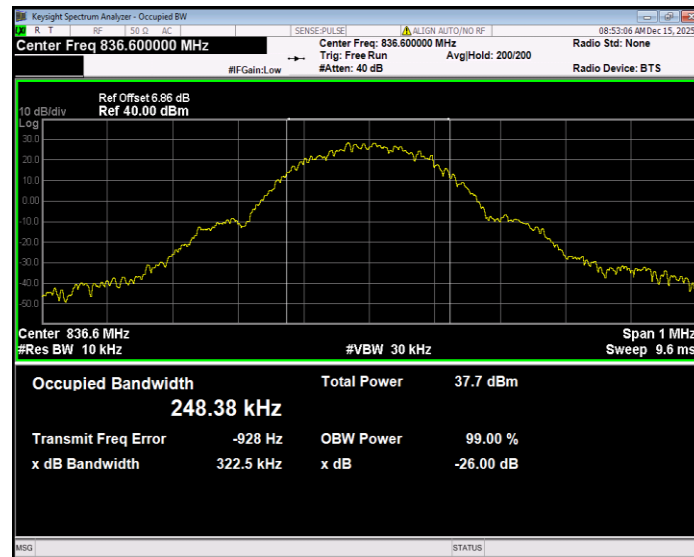
GPRS850 Channel=128



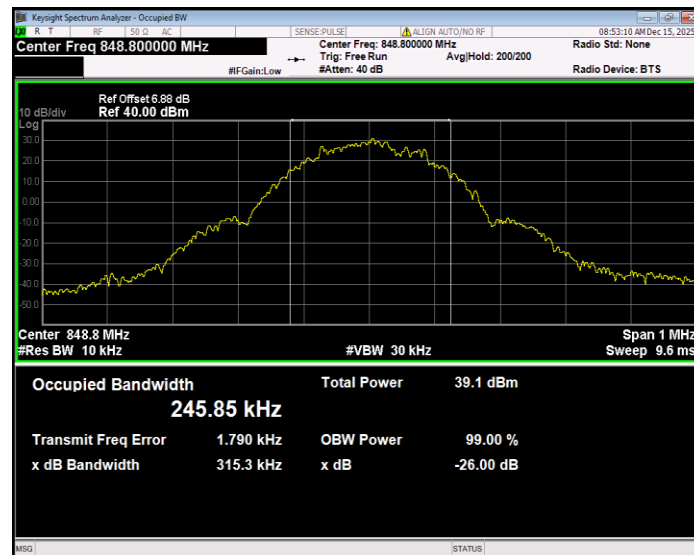


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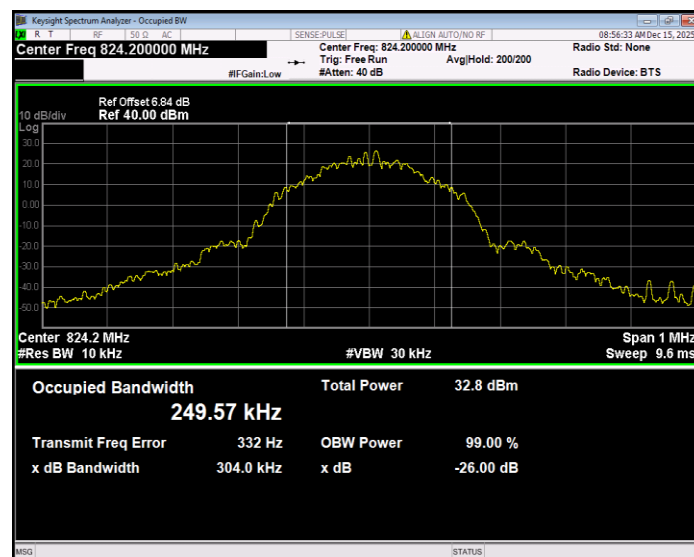
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GPRS850 Channel=251



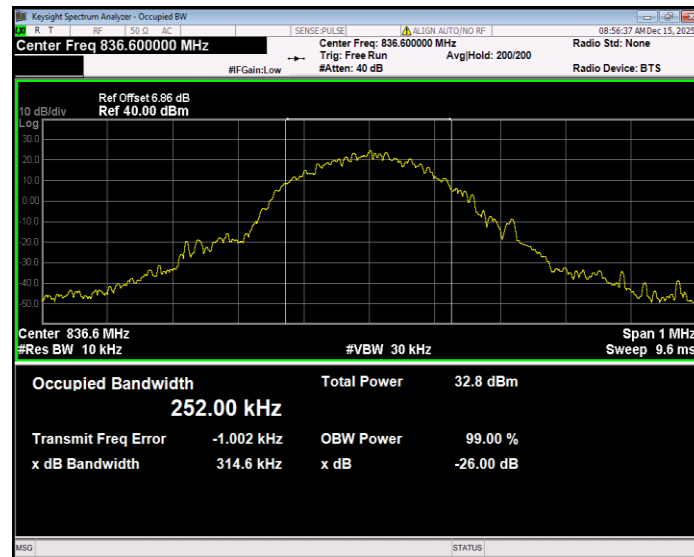
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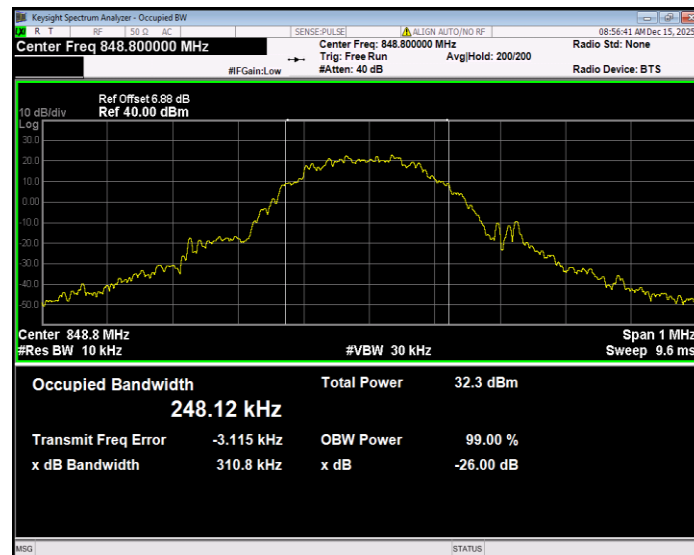


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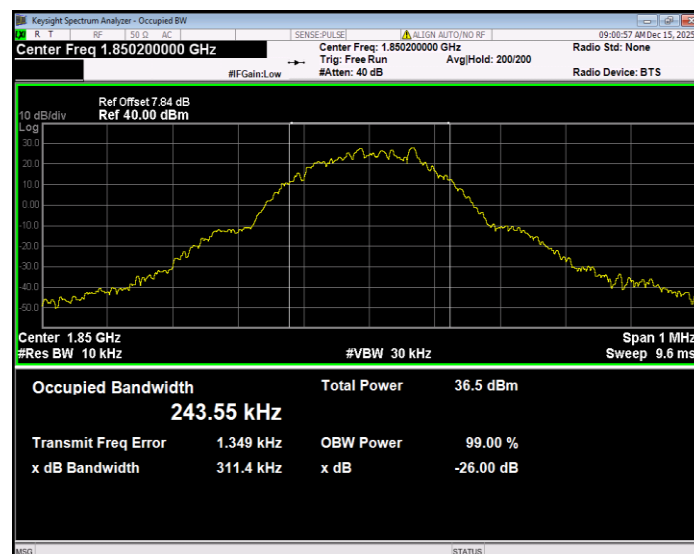
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EGPRS850 Channel=251



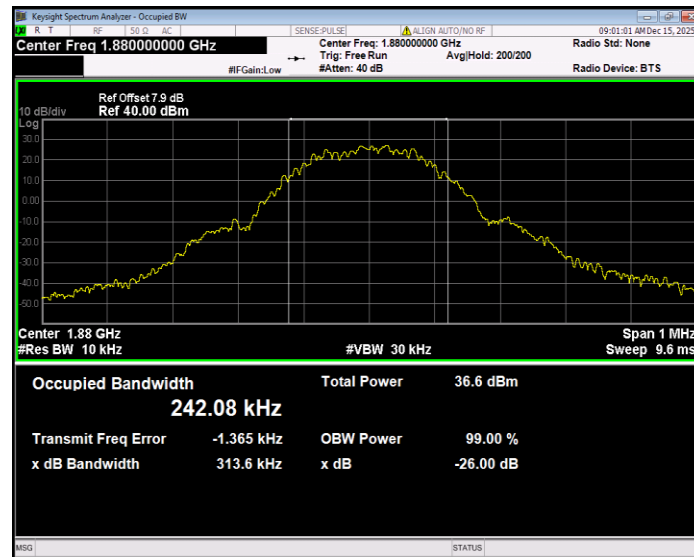
GSM1900 Channel=512



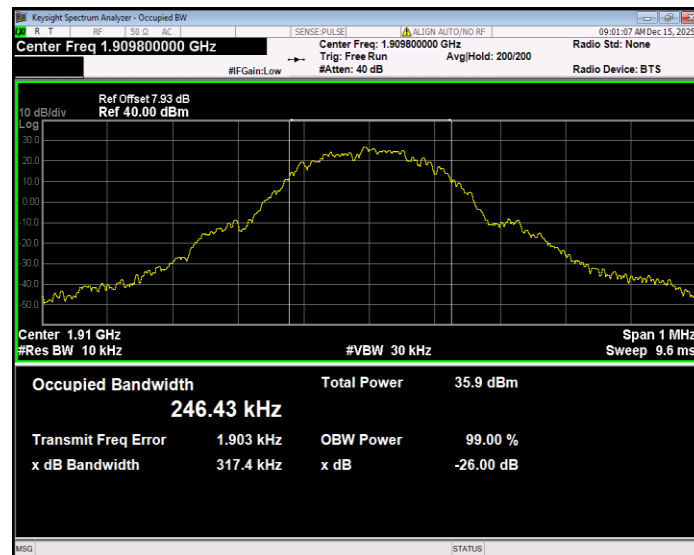


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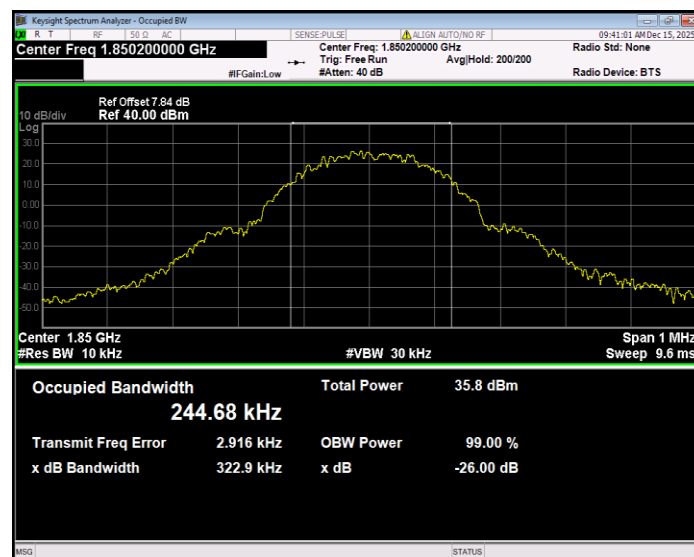
GSM1900 Channel=661



GSM1900 Channel=810



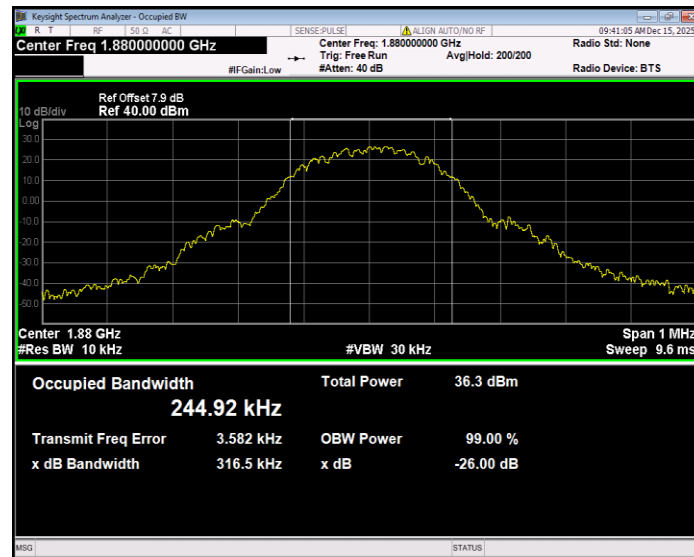
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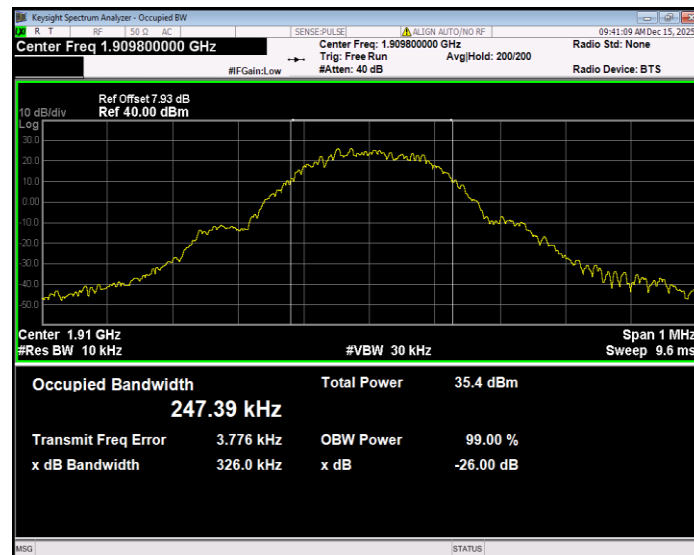


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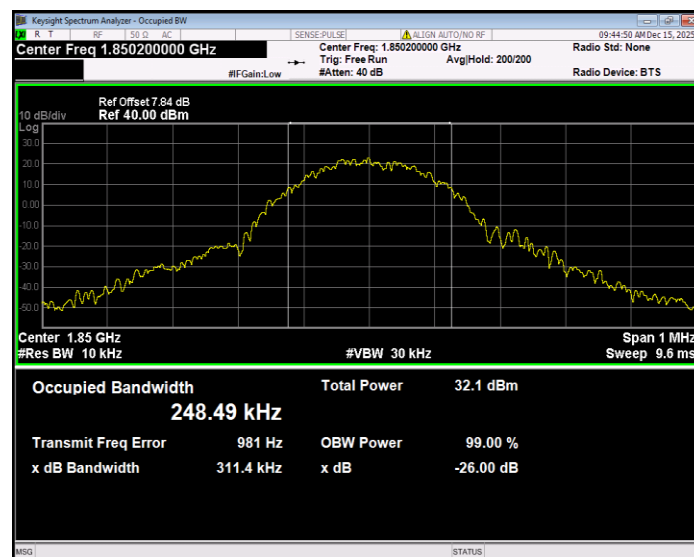
GPRS1900 Channel=661



GPRS1900 Channel=810



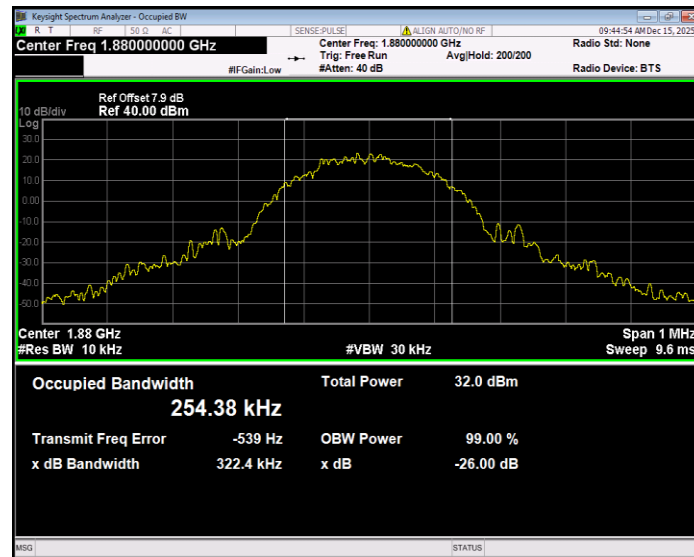
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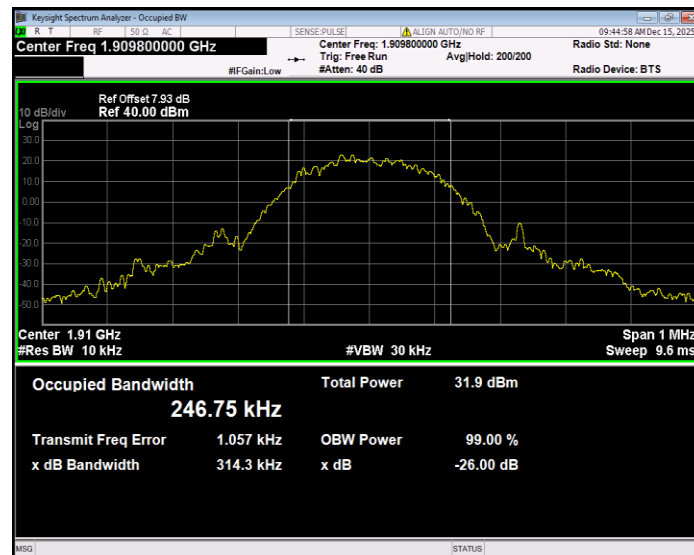


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



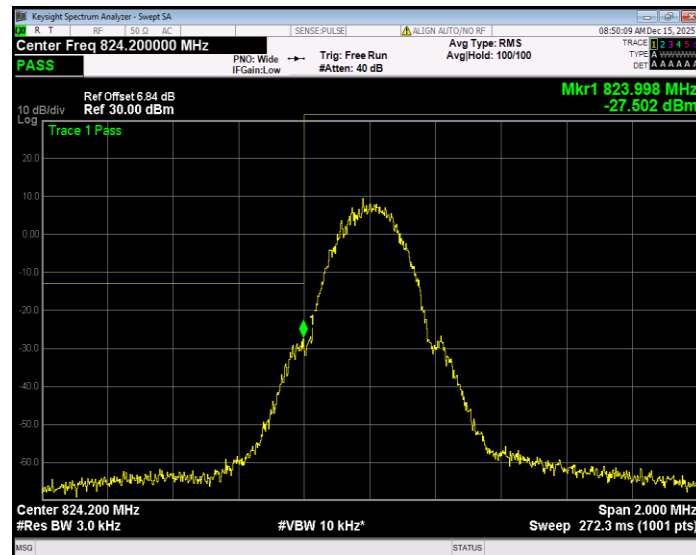


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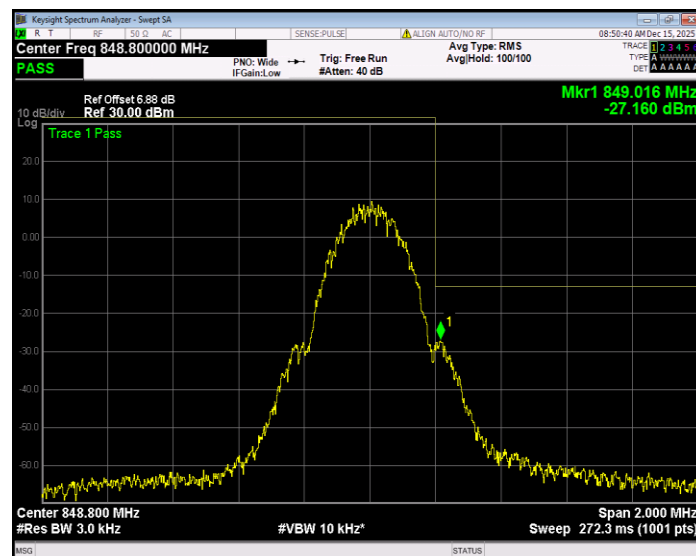
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-27.50	-13	PASS
GSM850	251	848.8	849.02	-27.15	-13	PASS
GPRS850	128	824.2	823.98	-26.89	-13	PASS
GPRS850	251	848.8	849.02	-27.30	-13	PASS
EGPRS850	128	824.2	823.97	-35.99	-13	PASS
EGPRS850	251	848.8	849.03	-37.17	-13	PASS
GSM1900	512	1850.2	1849.98	-29.74	-13	PASS
GSM1900	810	1909.8	1910.02	-29.56	-13	PASS
GPRS1900	512	1850.2	1850.00	-31.00	-13	PASS
GPRS1900	810	1909.8	1910.02	-29.44	-13	PASS
EGPRS1900	512	1850.2	1849.96	-37.54	-13	PASS
EGPRS1900	810	1909.8	1910.03	-37.78	-13	PASS

GSM850 Channel=128



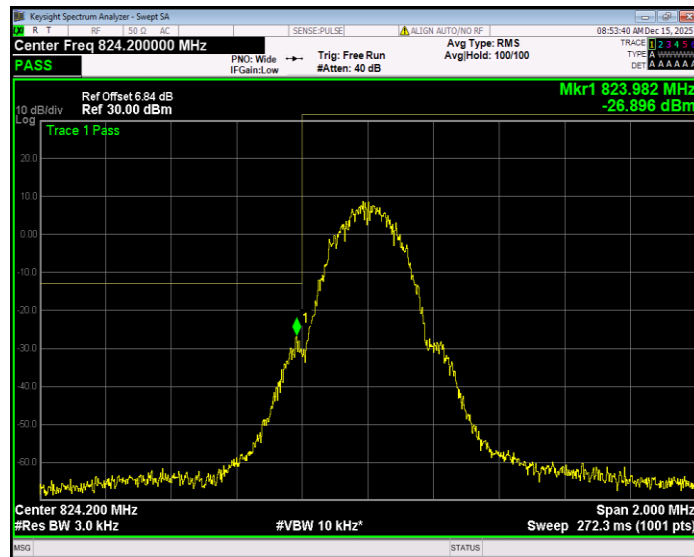
GSM850 Channel=251



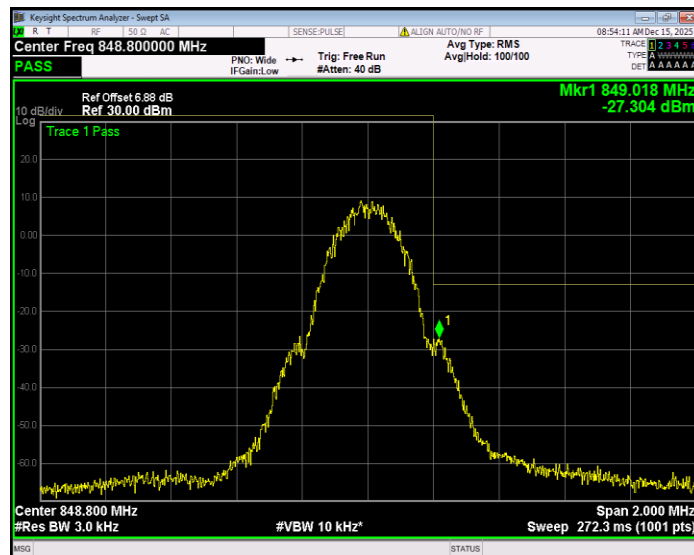


Report

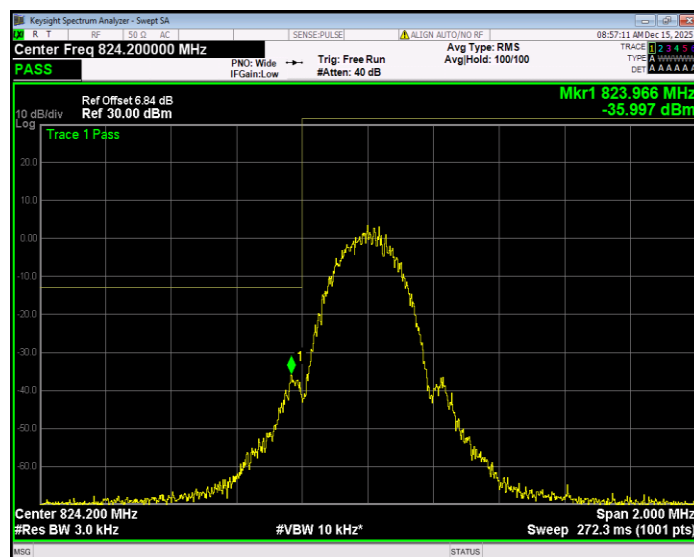
GPRS850 Channel=128



GPRS850 Channel=251



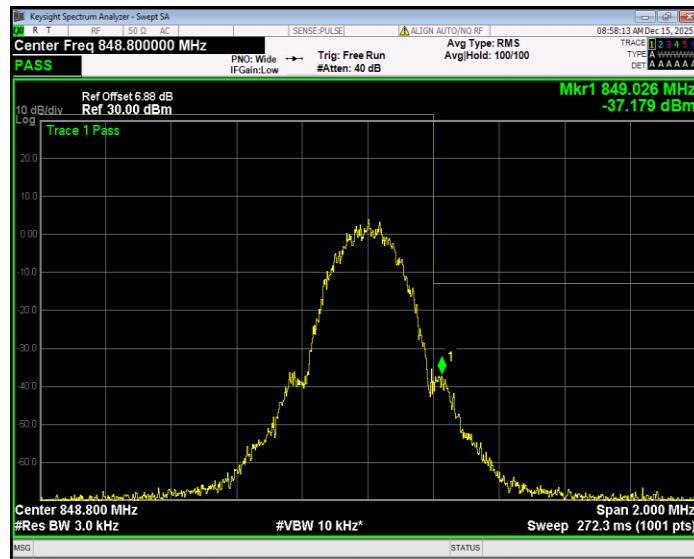
EGPRS850 Channel=128



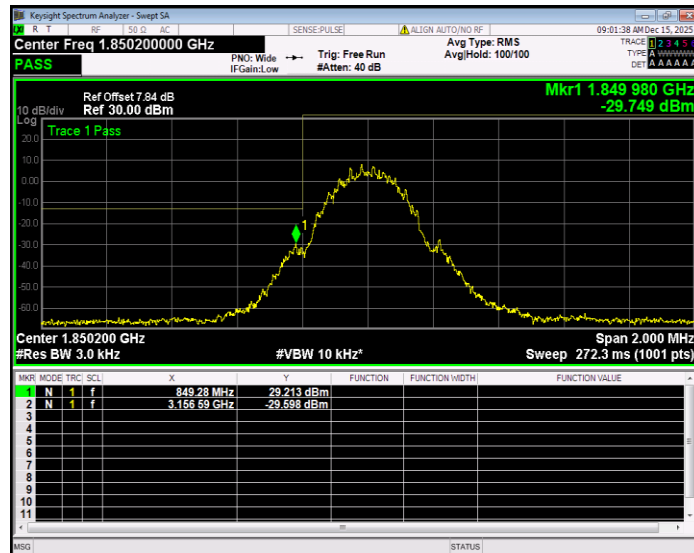


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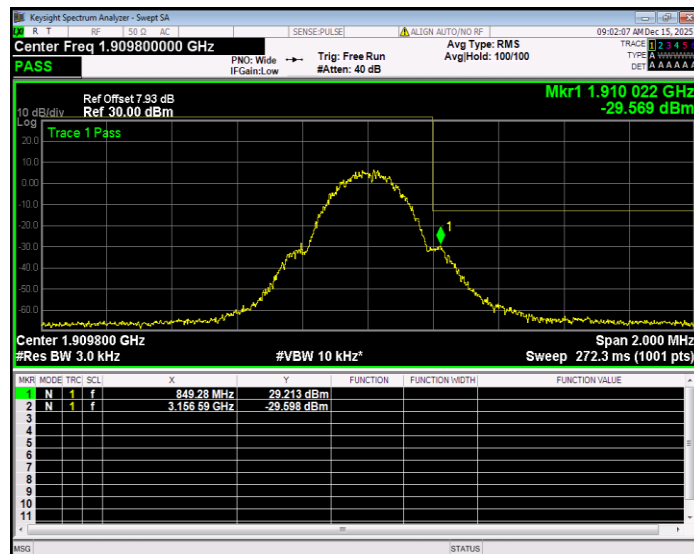
EGPRS850 Channel=251



GSM1900 Channel=512



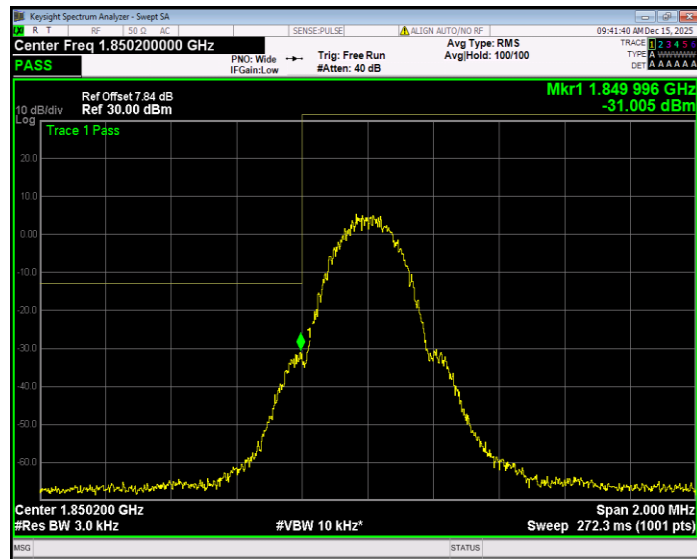
GSM1900 Channel=810



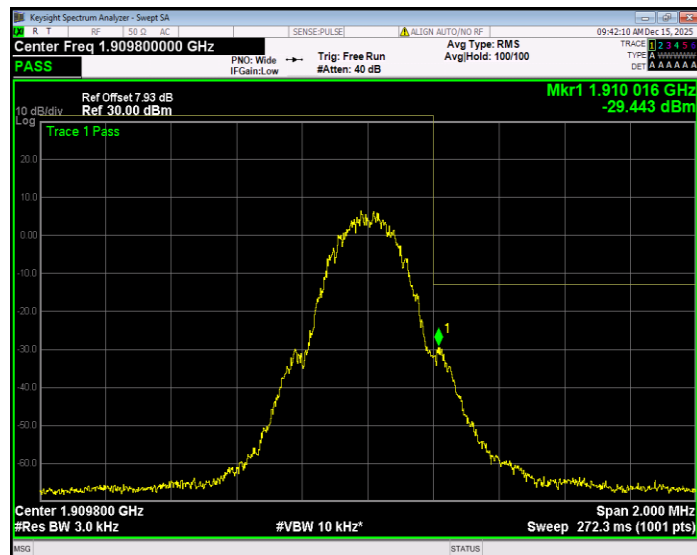


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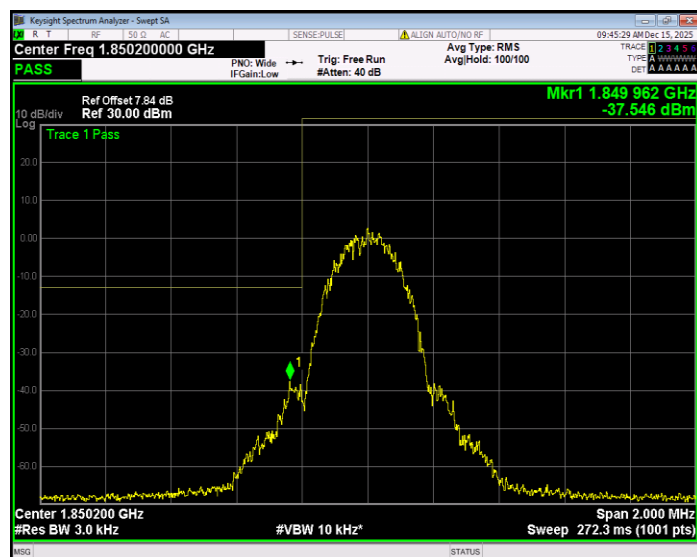
GPRS1900 Channel=512



GPRS1900 Channel=810



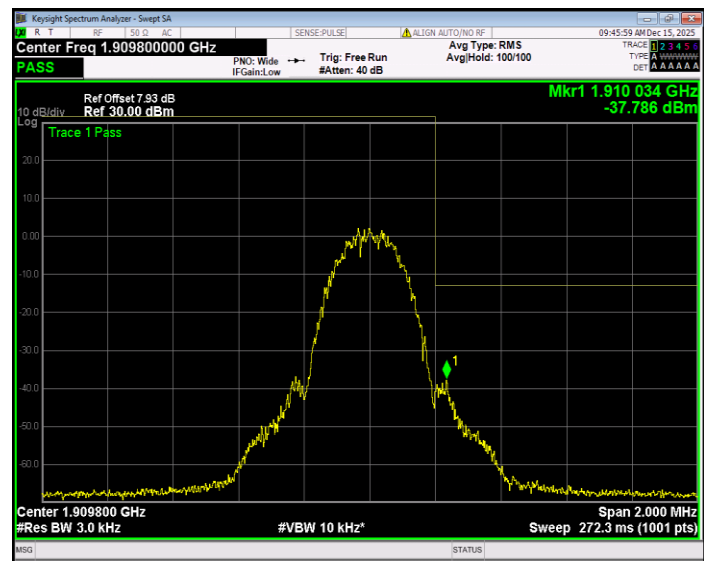
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



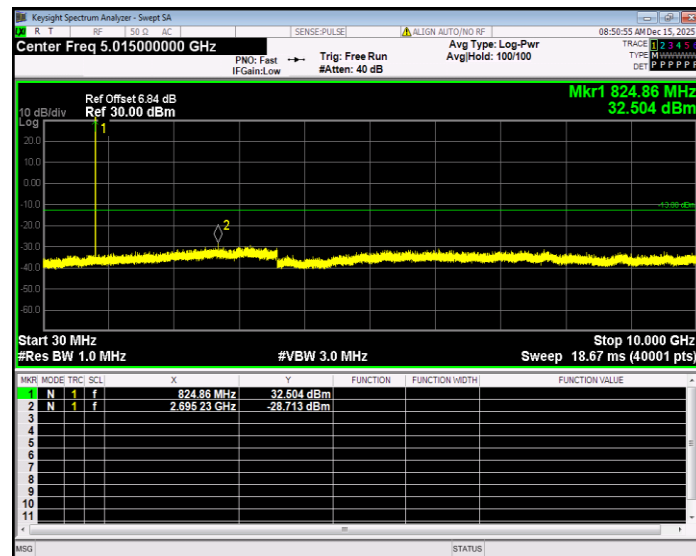


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	2695.23	-28.71	-13	PASS
GSM850	190	836.6	3041.94	-29.30	-13	PASS
GSM850	251	848.8	854.27	-20.82	-13	PASS
GPRS850	128	824.2	2810.63	-29.63	-13	PASS
GPRS850	190	836.6	3395.62	-29.71	-13	PASS
GPRS850	251	848.8	2721.15	-27.72	-13	PASS
EGPRS850	128	824.2	3111.98	-29.05	-13	PASS
EGPRS850	190	836.6	2458.69	-28.79	-13	PASS
EGPRS850	251	848.8	3156.59	-29.59	-13	PASS
GSM1900	512	1850.2	19369.95	-24.39	-13	PASS
GSM1900	661	1880	19530.21	-24.46	-13	PASS
GSM1900	810	1909.8	19791.31	-24.51	-13	PASS
GPRS1900	512	1850.2	19015.48	-24.42	-13	PASS
GPRS1900	661	1880	19740.39	-24.32	-13	PASS
GPRS1900	810	1909.8	19460.81	-23.25	-13	PASS
EGPRS1900	512	1850.2	19027.46	-24.25	-13	PASS
EGPRS1900	661	1880	19986.52	-24.48	-13	PASS
EGPRS1900	810	1909.8	18968.05	-24.01	-13	PASS

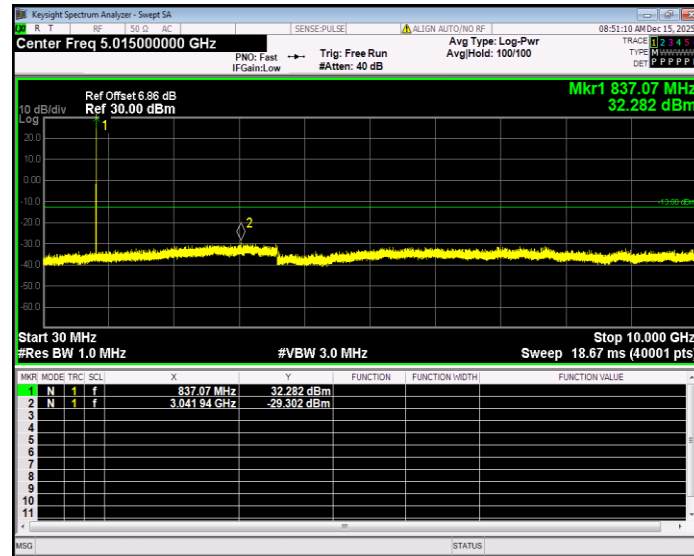
GSM850 Channel=128



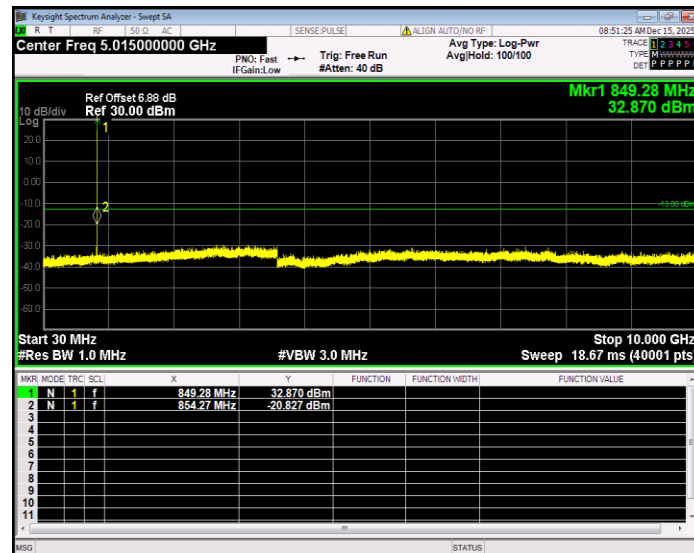
GSM850 Channel=190



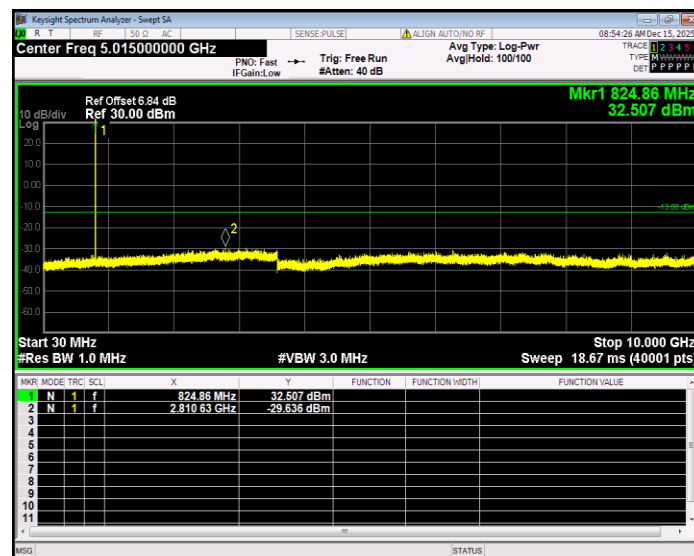
Report



GSM850 Channel=251



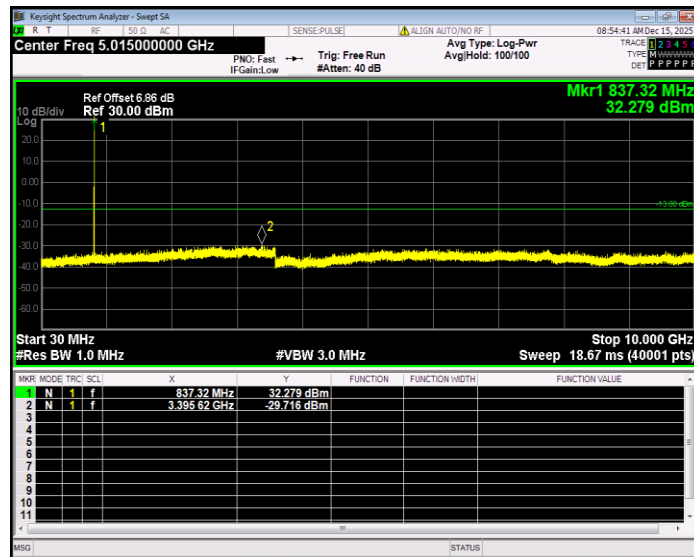
GPRS850 Channel=128



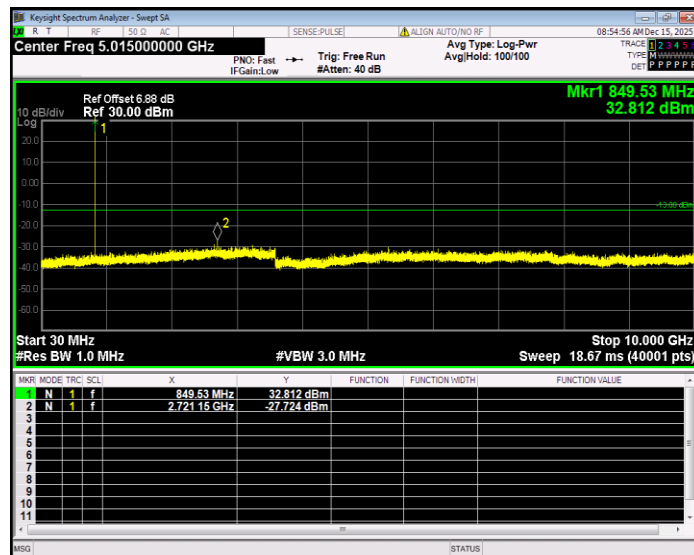


Report

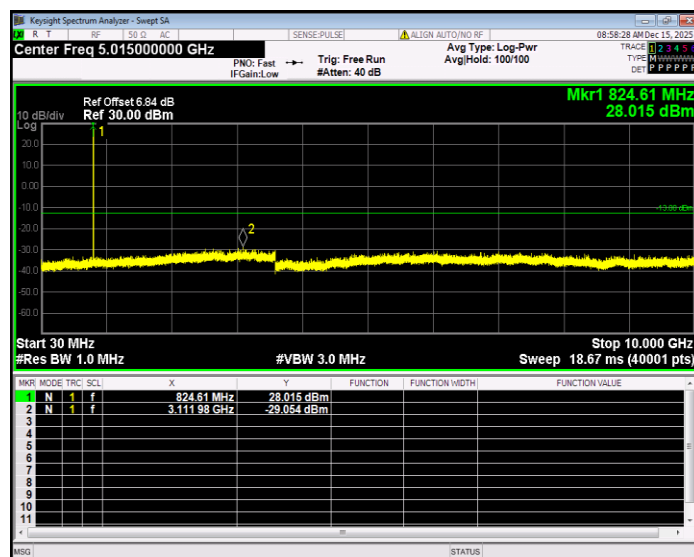
GPRS850 Channel=190



GPRS850 Channel=251



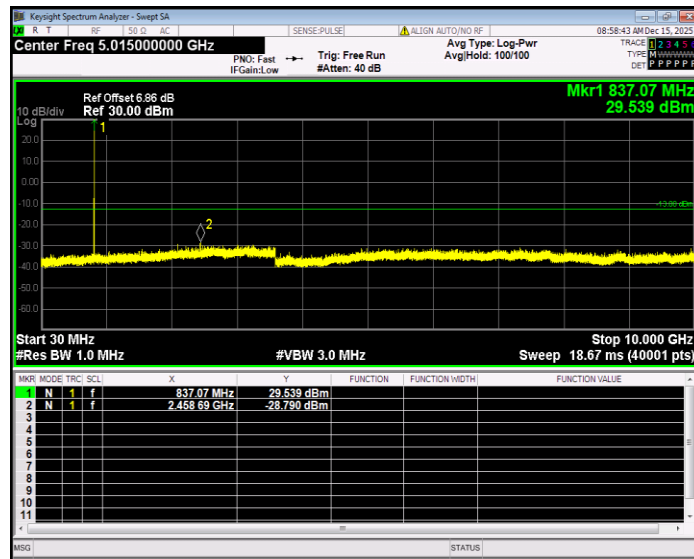
EGPRS850 Channel=128



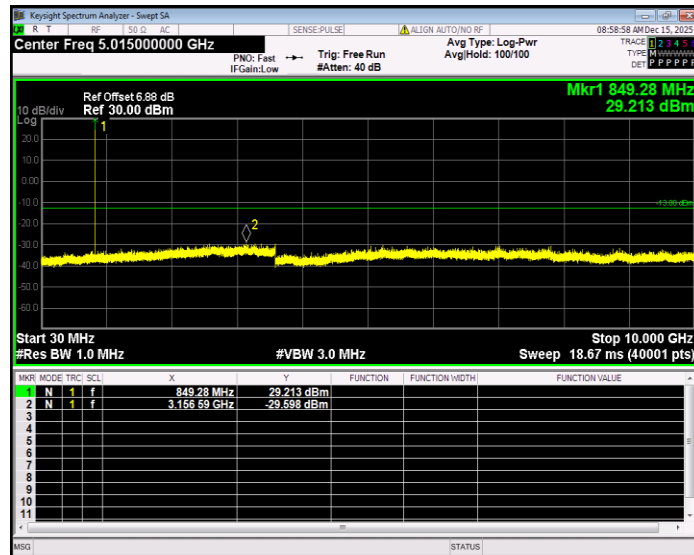


Report

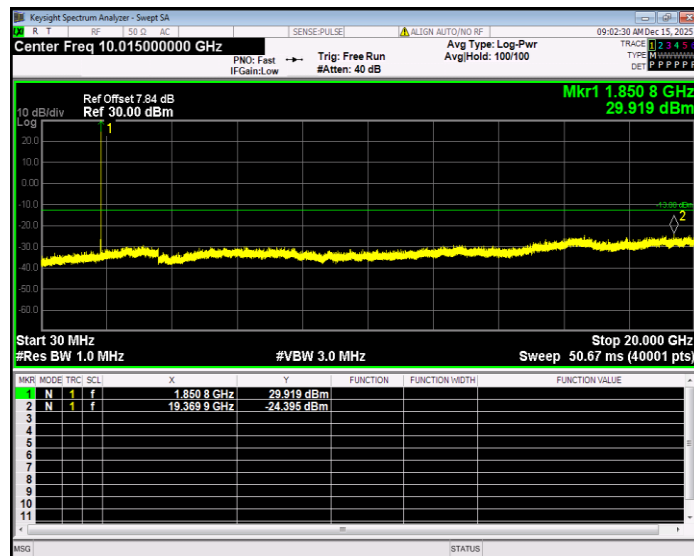
EGPRS850 Channel=190



EGPRS850 Channel=251



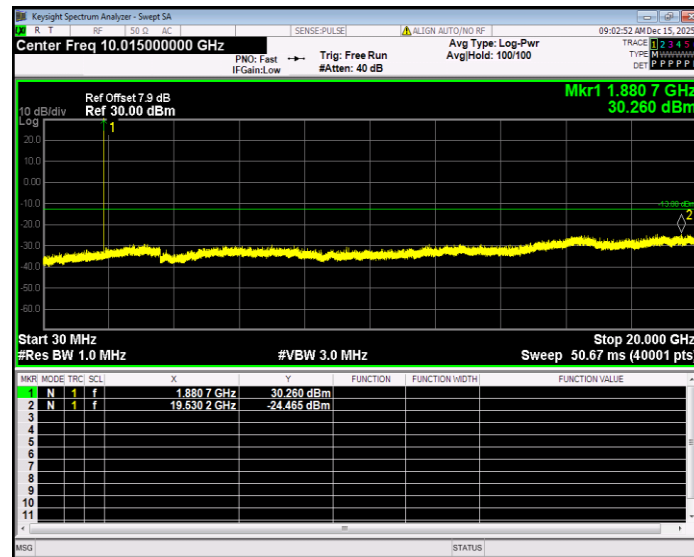
GSM1900 Channel=512



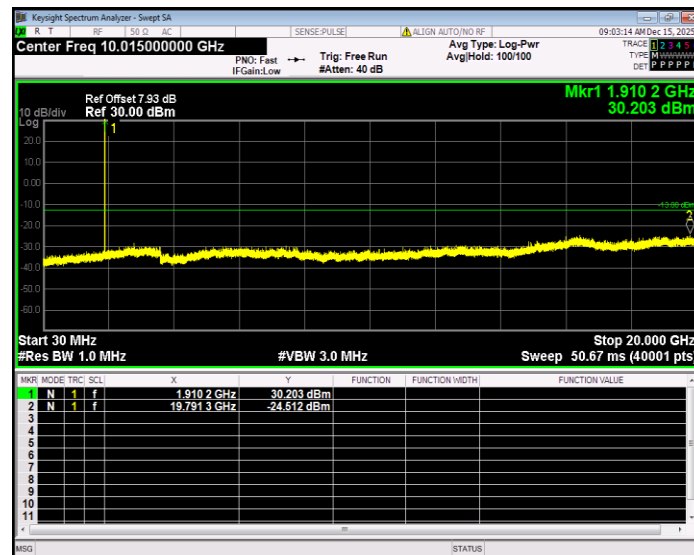


Report

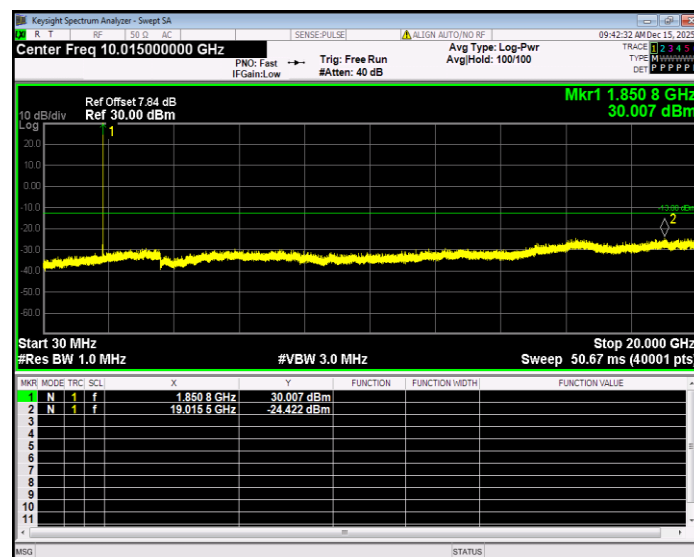
GSM1900 Channel=661



GSM1900 Channel=810



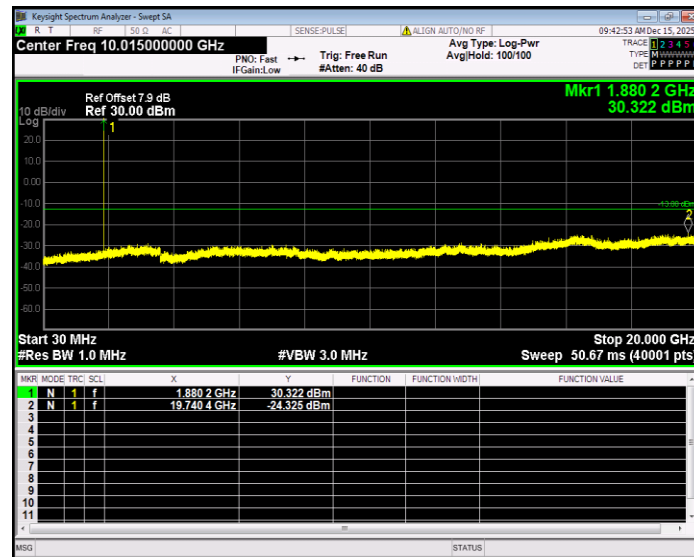
GPRS1900 Channel=512



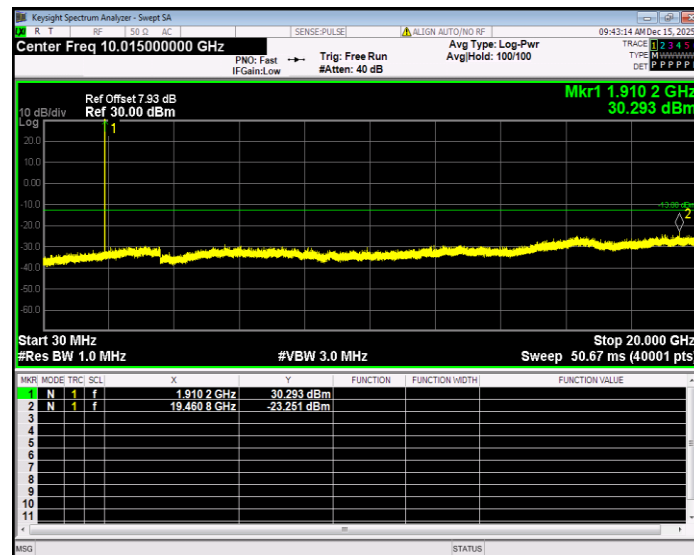


Report

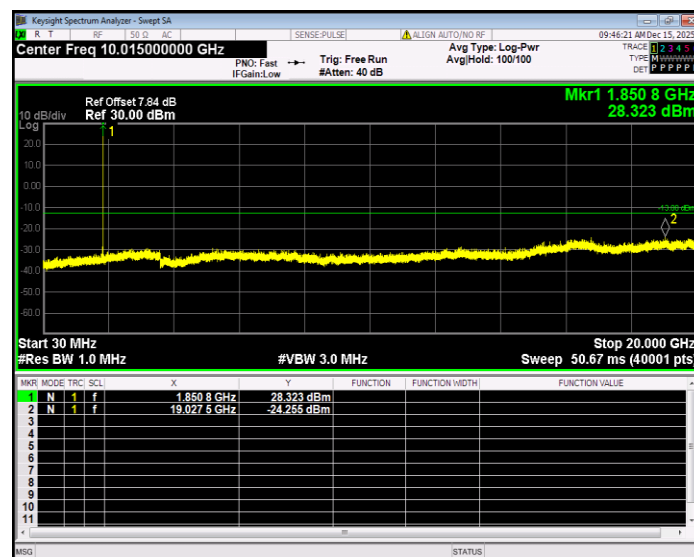
GPRS1900 Channel=661



GPRS1900 Channel=810



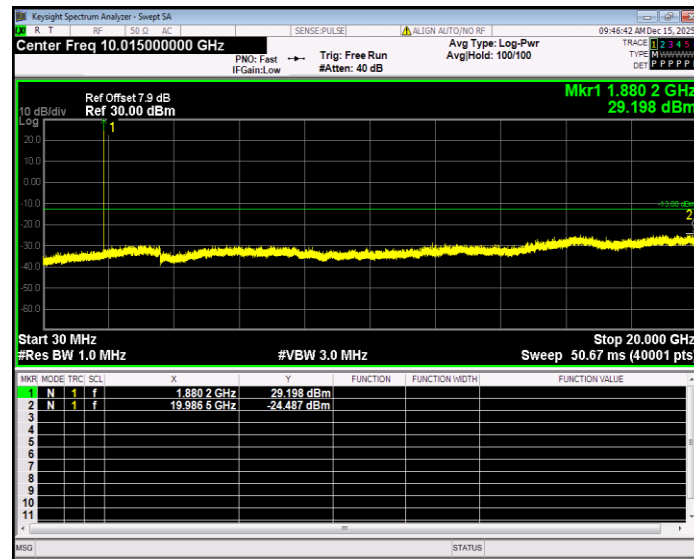
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

