



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	32.73	-3.7	26.88	38.45	PASS
GSM850	190	836.6	33.16	-3.7	27.31	38.45	PASS
GSM850	251	848.8	33.33	-3.7	27.48	38.45	PASS
GPRS850 1 Slot	128	824.2	32.72	-3.7	26.87	38.45	PASS
GPRS850 1 Slot	190	836.6	33.16	-3.7	27.31	38.45	PASS
GPRS850 1 Slot	251	848.8	33.32	-3.7	27.47	38.45	PASS
GPRS850 2 Slot	128	824.2	31.95	-3.7	26.10	38.45	PASS
GPRS850 2 Slot	190	836.6	32.33	-3.7	26.48	38.45	PASS
GPRS850 2 Slot	251	848.8	32.53	-3.7	26.68	38.45	PASS
GPRS850 3 Slot	128	824.2	30.28	-3.7	24.43	38.45	PASS
GPRS850 3 Slot	190	836.6	30.57	-3.7	24.72	38.45	PASS
GPRS850 3 Slot	251	848.8	30.85	-3.7	25.00	38.45	PASS
GPRS850 4 Slot	128	824.2	29.24	-3.7	23.39	38.45	PASS
GPRS850 4 Slot	190	836.6	29.52	-3.7	23.67	38.45	PASS
GPRS850 4 Slot	251	848.8	29.79	-3.7	23.94	38.45	PASS
EGPRS850 1 Slot	128	824.2	28.36	-3.7	22.51	38.45	PASS
EGPRS850 1 Slot	190	836.6	28.27	-3.7	22.42	38.45	PASS
EGPRS850 1 Slot	251	848.8	29.00	-3.7	23.15	38.45	PASS
EGPRS850 2 Slot	128	824.2	27.59	-3.7	21.74	38.45	PASS
EGPRS850 2 Slot	190	836.6	27.35	-3.7	21.50	38.45	PASS
EGPRS850 2 Slot	251	848.8	27.63	-3.7	21.78	38.45	PASS
EGPRS850 3 Slot	128	824.2	24.99	-3.7	19.14	38.45	PASS
EGPRS850 3 Slot	190	836.6	25.03	-3.7	19.18	38.45	PASS
EGPRS850 3 Slot	251	848.8	26.02	-3.7	20.17	38.45	PASS
EGPRS850 4 Slot	128	824.2	24.12	-3.7	18.27	38.45	PASS
EGPRS850 4 Slot	190	836.6	23.85	-3.7	18.00	38.45	PASS
EGPRS850 4 Slot	251	848.8	24.42	-3.7	18.57	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	30.02	-2.56	27.46	33.01	PASS
GSM1900	661	1880	29.64	-2.56	27.08	33.01	PASS
GSM1900	810	1909.8	29.25	-2.56	26.69	33.01	PASS
GPRS1900 1 Slot	512	1850.2	29.97	-2.56	27.41	33.01	PASS
GPRS1900 1 Slot	661	1880	29.57	-2.56	27.01	33.01	PASS
GPRS1900 1 Slot	810	1909.8	29.19	-2.56	26.63	33.01	PASS
GPRS1900 2 Slot	512	1850.2	29.00	-2.56	26.44	33.01	PASS
GPRS1900 2 Slot	661	1880	28.57	-2.56	26.01	33.01	PASS
GPRS1900 2 Slot	810	1909.8	28.20	-2.56	25.64	33.01	PASS
GPRS1900 3 Slot	512	1850.2	27.21	-2.56	24.65	33.01	PASS
GPRS1900 3 Slot	661	1880	26.78	-2.56	24.22	33.01	PASS
GPRS1900 3 Slot	810	1909.8	26.41	-2.56	23.85	33.01	PASS
GPRS1900 4 Slot	512	1850.2	26.43	-2.56	23.87	33.01	PASS
GPRS1900 4 Slot	661	1880	25.97	-2.56	23.41	33.01	PASS
GPRS1900 4 Slot	810	1909.8	25.60	-2.56	23.04	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	27.23	-2.56	24.67	33.01	PASS
EGPRS1900 1 Slot	661	1880	26.72	-2.56	24.16	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	26.58	-2.56	24.02	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	26.28	-2.56	23.72	33.01	PASS
EGPRS1900 2 Slot	661	1880	25.97	-2.56	23.41	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	25.08	-2.56	22.52	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	24.54	-2.56	21.98	33.01	PASS
EGPRS1900 3 Slot	661	1880	23.60	-2.56	21.04	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	23.75	-2.56	21.19	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	22.90	-2.56	20.34	33.01	PASS
EGPRS1900 4 Slot	661	1880	22.24	-2.56	19.68	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	22.10	-2.56	19.54	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	3.60	0.004	2.5ppm	PASS
40		-3.41	-0.004		
30		3.33	0.004		
20		-8.39	-0.010		
10		3.34	0.004		
0		-3.28	-0.004		
-10		3.64	0.004		
-20		3.42	0.004		
-30		3.41	0.004		
20	Maximum Voltage	3.28	0.004		
20	BEP	3.33	0.004		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	8.24	0.010	2.5ppm	PASS
40		-8.48	-0.010		
30		8.49	0.010		
20		-18.66	-0.022		
10		8.78	0.010		
0		-8.44	-0.010		
-10		8.47	0.010		
-20		-8.52	-0.010		
-30		8.68	0.010		
20	Maximum Voltage	-8.34	-0.010		
20	BEP	8.29	0.010		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-2.86	-0.003	2.5ppm	PASS
40		2.72	0.003		
30		2.33	0.003		
20		-6.88	-0.008		
10		-2.90	-0.003		
0		-2.62	-0.003		
-10		-2.64	-0.003		
-20		-2.65	-0.003		
-30		2.43	0.003		
20	Maximum Voltage	2.89	0.003		
20	BEP	-2.62	-0.003		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	9.41	0.005	Within Authorized Band	PASS
40		-9.51	-0.005		
30		9.25	0.005		
20		-20.60	-0.011		
10		-9.62	-0.005		
0		9.75	0.005		
-10		9.59	0.005		
-20		9.32	0.005		
-30		-9.48	-0.005		
20	Maximum Voltage	9.50	0.005		
20	BEP	-9.38	-0.005		



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GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	12.13	0.006	Within Authorized Band	PASS
40		-12.48	-0.007		
30		-12.21	-0.006		
20		-26.28	-0.014		
10		12.25	0.007		
0		12.21	0.006		
-10		-12.08	-0.006		
-20		-12.49	-0.007		
-30		-12.14	-0.006		
20	Maximum Voltage	-12.42	-0.007		
20	BEP	-12.39	-0.007		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	10.80	0.006	Within Authorized Band	PASS
40		10.80	0.006		
30		11.25	0.006		
20		-23.70	-0.013		
10		11.32	0.006		
0		11.10	0.006		
-10		-10.92	-0.006		
-20		-10.81	-0.006		
-30		-11.14	-0.006		
20	Maximum Voltage	-10.75	-0.006		
20	BEP	-11.07	-0.006		

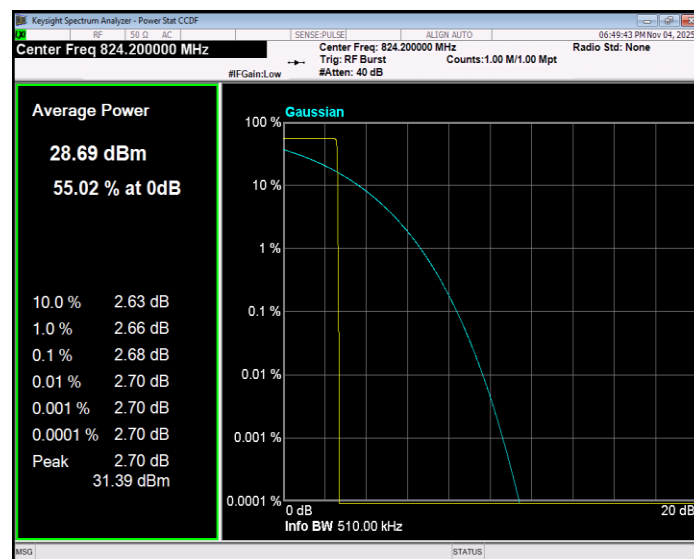


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.68	13	PASS
GSM850	190	836.6	2.68	13	PASS
GSM850	251	848.8	2.68	13	PASS
GPRS850	128	824.2	2.71	13	PASS
GPRS850	190	836.6	2.71	13	PASS
GPRS850	251	848.8	2.71	13	PASS
EGPRS850	128	824.2	6.67	13	PASS
EGPRS850	190	836.6	7.54	13	PASS
EGPRS850	251	848.8	6.92	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	2.71	13	PASS
GPRS1900	661	1880	2.71	13	PASS
GPRS1900	810	1909.8	2.71	13	PASS
EGPRS1900	512	1850.2	5.68	13	PASS
EGPRS1900	661	1880	5.74	13	PASS
EGPRS1900	810	1909.8	5.75	13	PASS

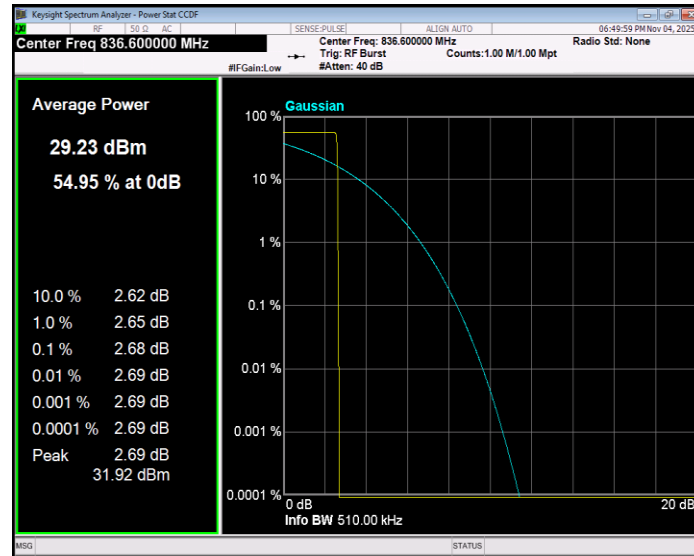
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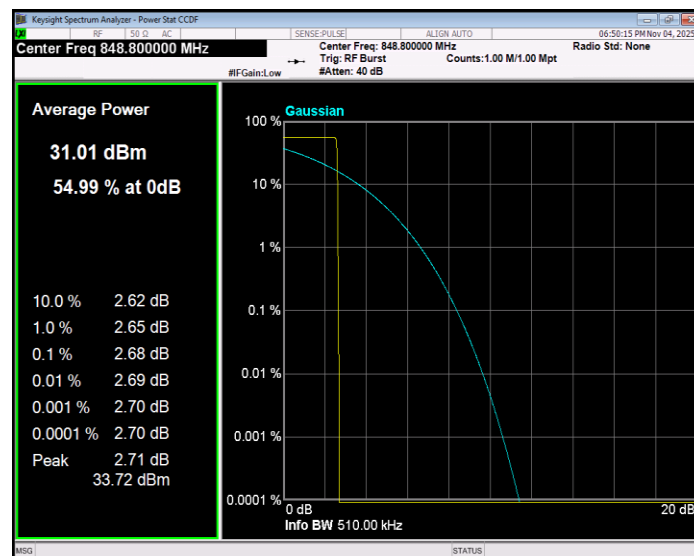
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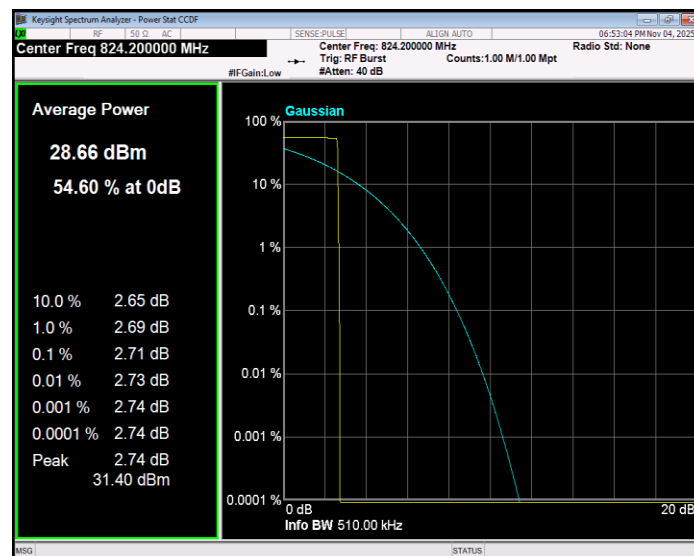
Report



GSM850 Channel=251



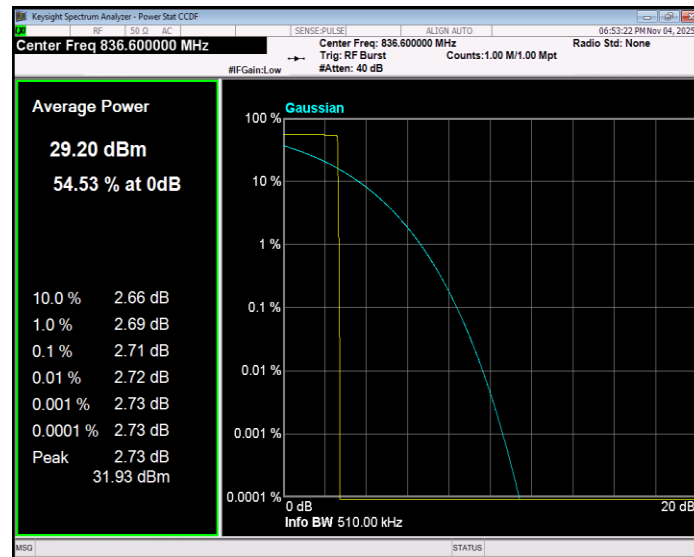
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Report

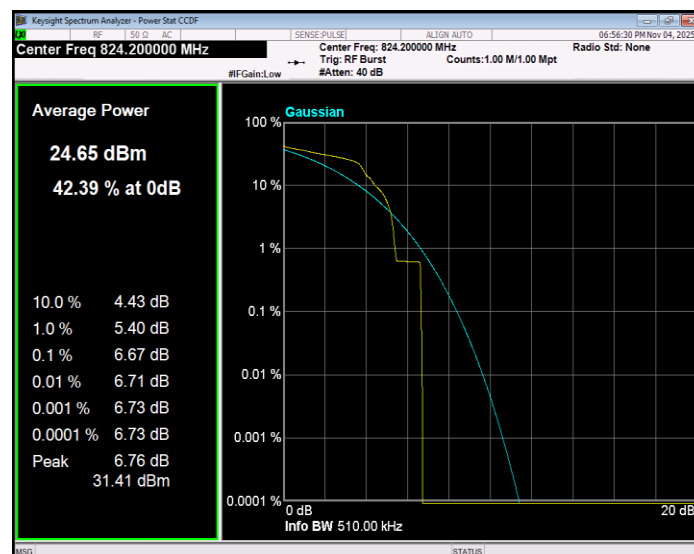
GPRS850 Channel=190



GPRS850 Channel=251



EGPRS850 Channel=128



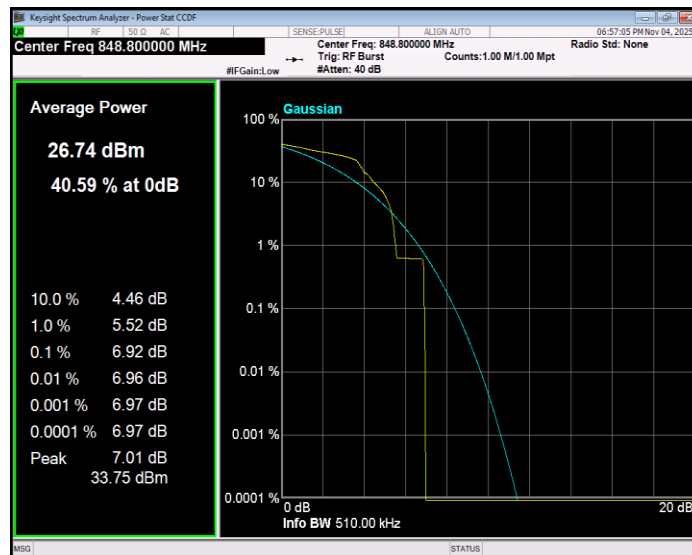


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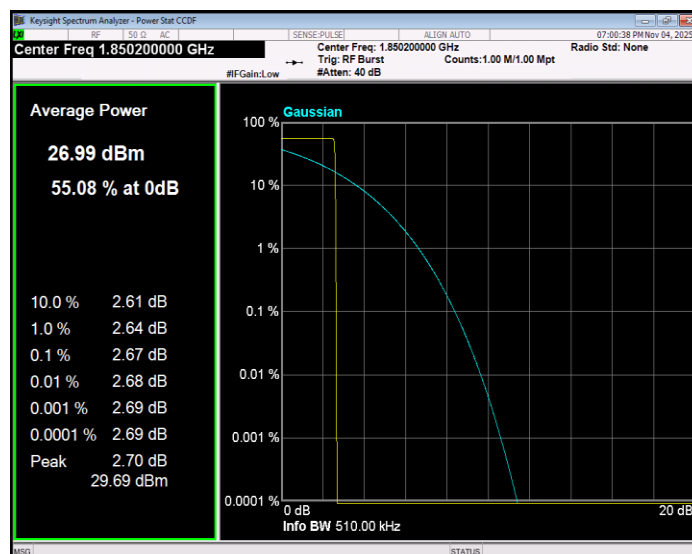
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EGPRS850 Channel=251



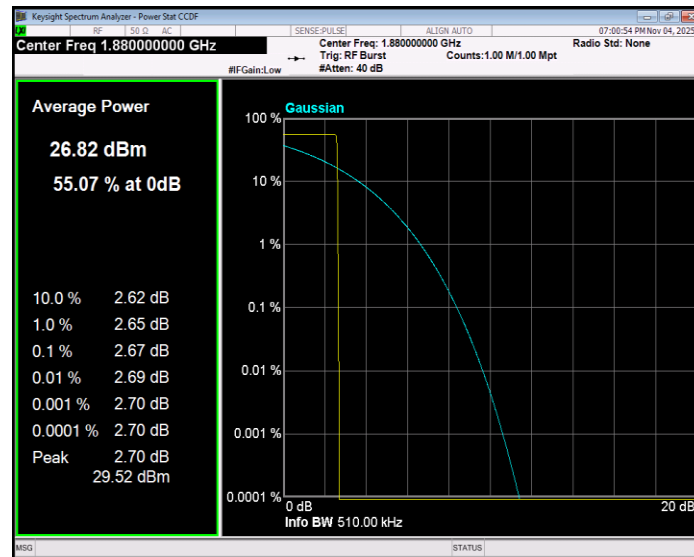
GSM1900 Channel=512





Report

GSM1900 Channel=661



GSM1900 Channel=810



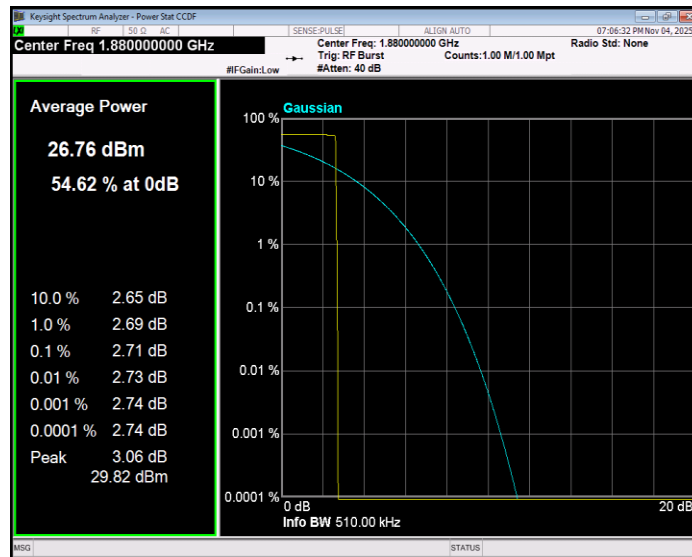
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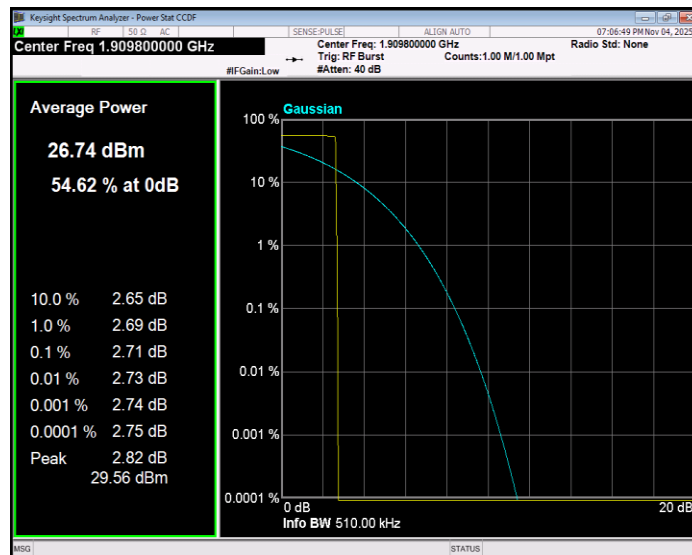


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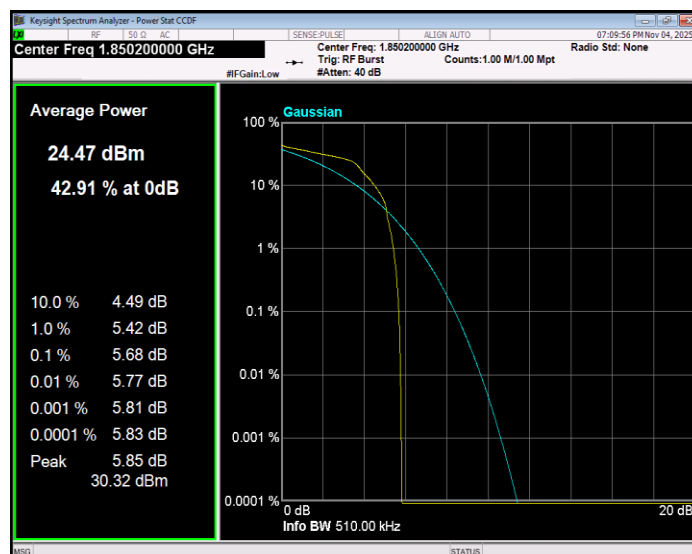
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GPRS1900 Channel=810



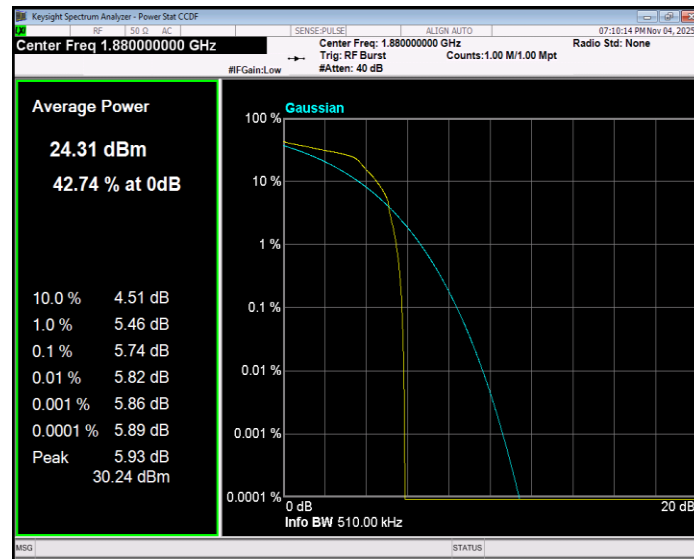
EGPRS1900 Channel=512



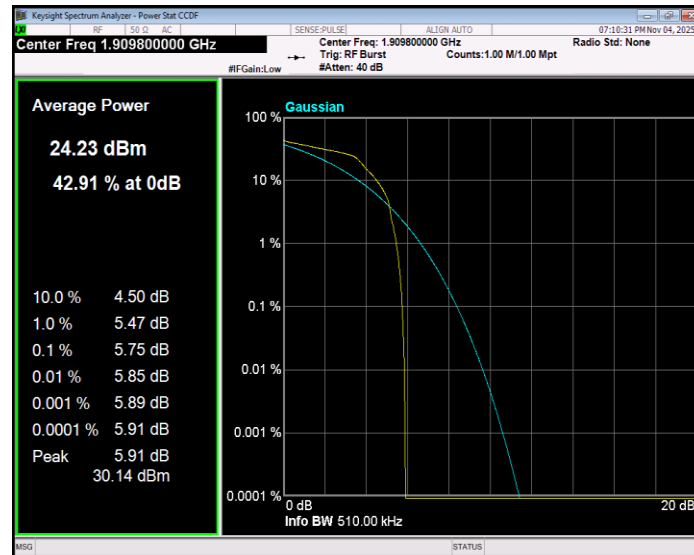


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



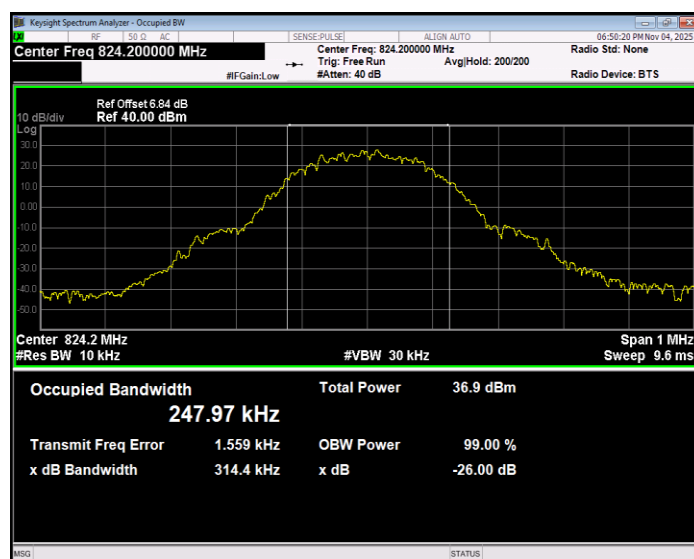


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	247.974	314.356	PASS
GSM850	190	836.6	251.306	318.480	PASS
GSM850	251	848.8	245.378	318.402	PASS
GPRS850	128	824.2	247.633	315.037	PASS
GPRS850	190	836.6	244.992	315.436	PASS
GPRS850	251	848.8	249.123	318.845	PASS
EGPRS850	128	824.2	249.262	300.372	PASS
EGPRS850	190	836.6	243.565	300.532	PASS
EGPRS850	251	848.8	251.360	311.355	PASS
GSM1900	512	1850.2	242.429	311.459	PASS
GSM1900	661	1880	246.692	319.817	PASS
GSM1900	810	1909.8	245.906	317.263	PASS
GPRS1900	512	1850.2	246.908	312.257	PASS
GPRS1900	661	1880	244.277	312.014	PASS
GPRS1900	810	1909.8	251.893	318.782	PASS
EGPRS1900	512	1850.2	253.921	315.412	PASS
EGPRS1900	661	1880	248.829	314.941	PASS
EGPRS1900	810	1909.8	254.238	302.363	PASS

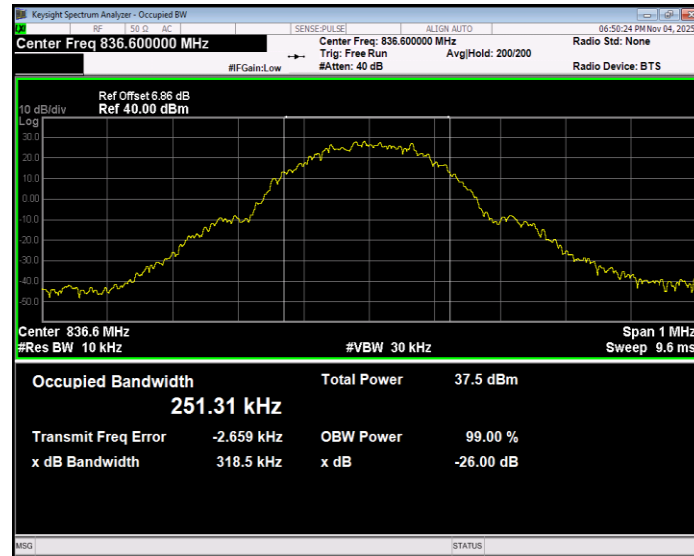
GSM850 Channel=128



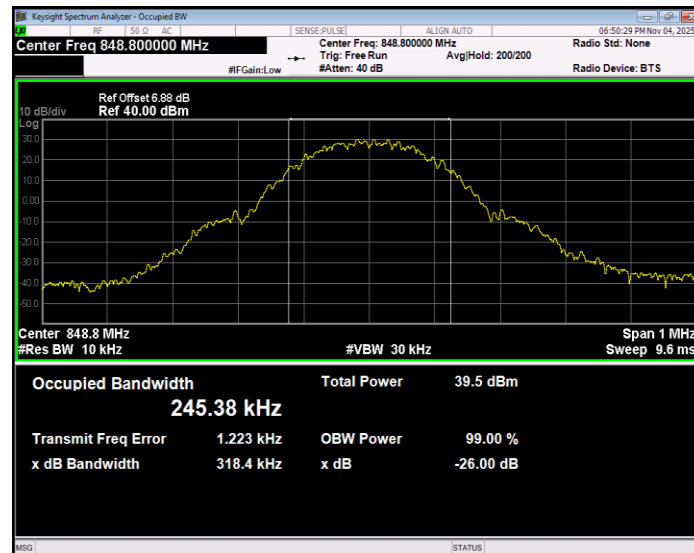
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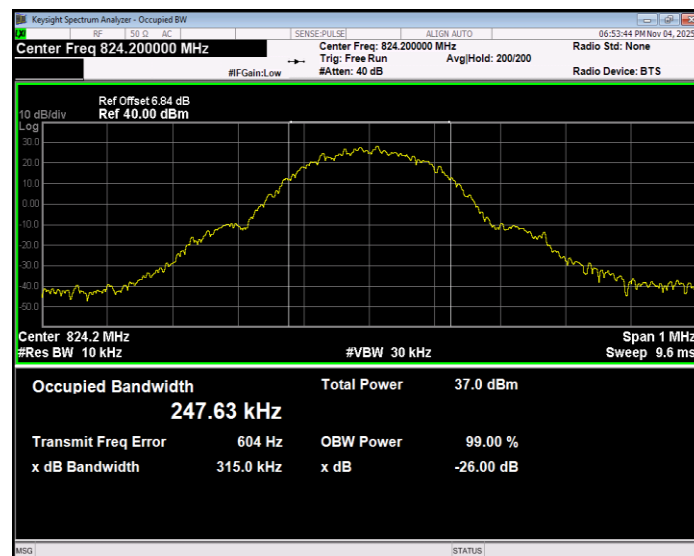
Report



GSM850 Channel=251



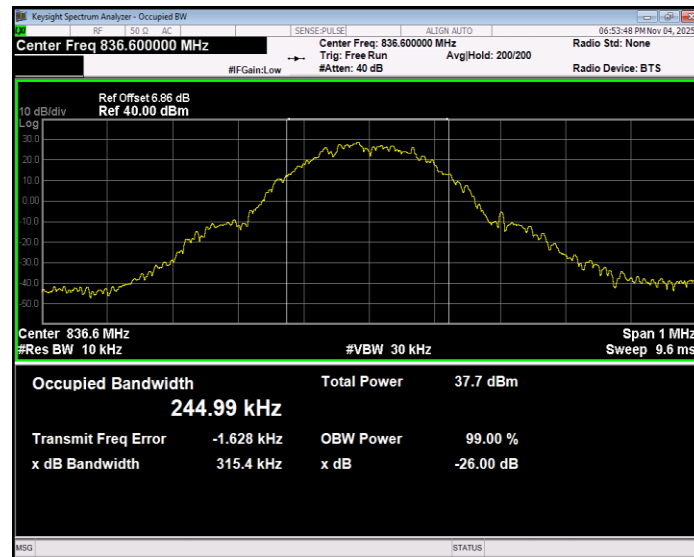
GPRS850 Channel=128



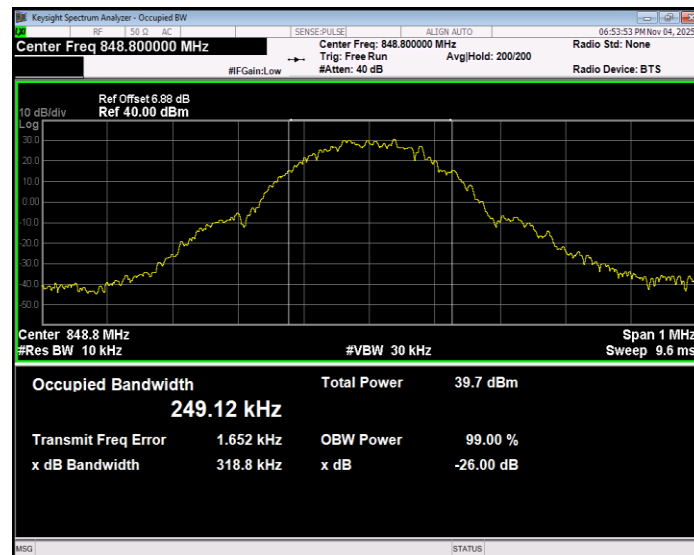


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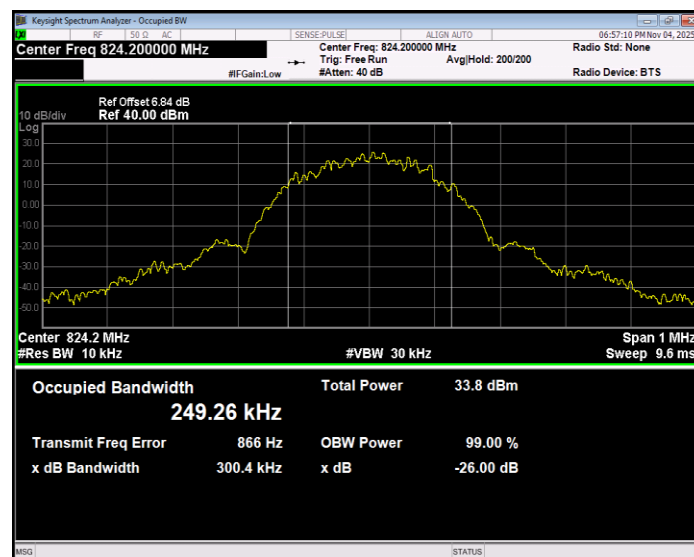
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GPRS850 Channel=251



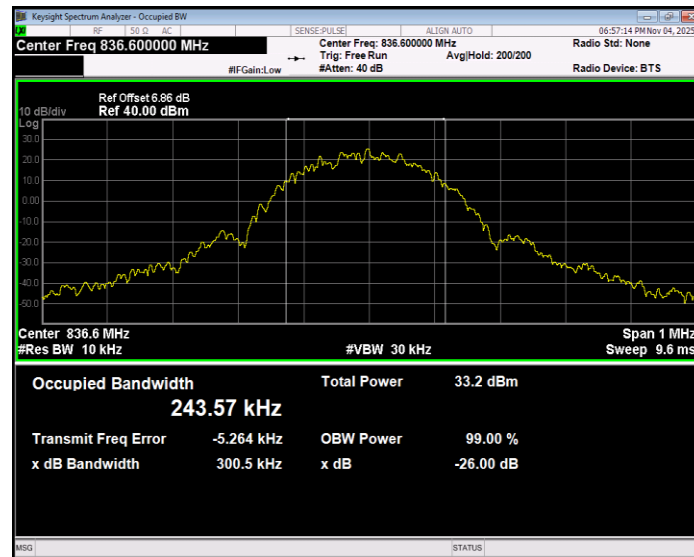
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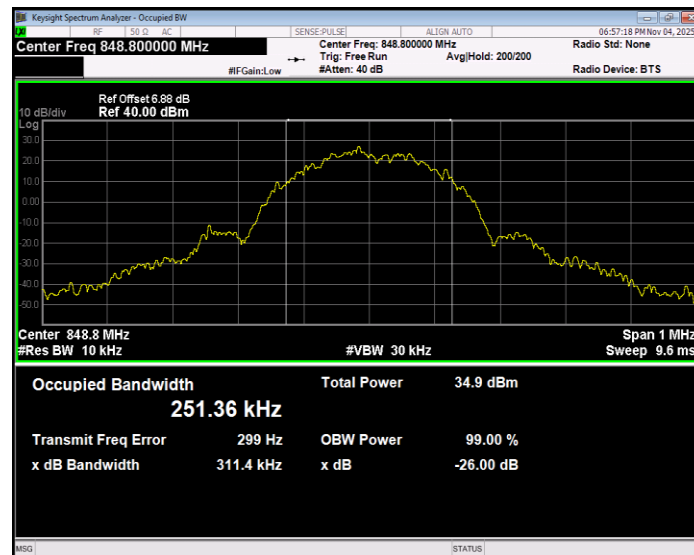


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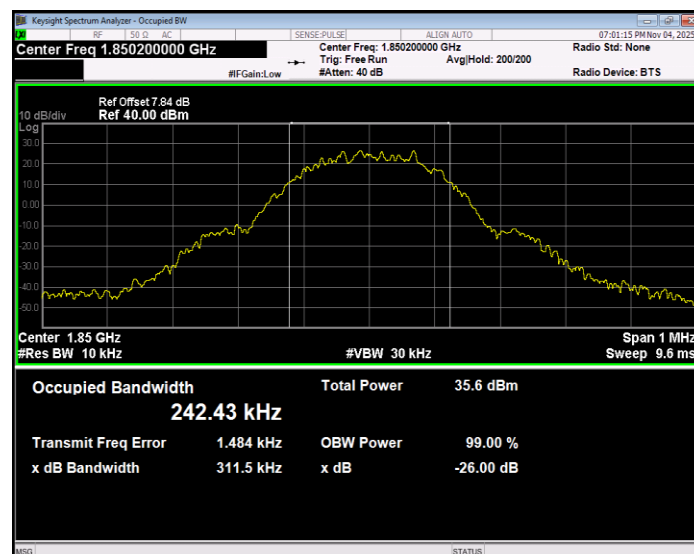
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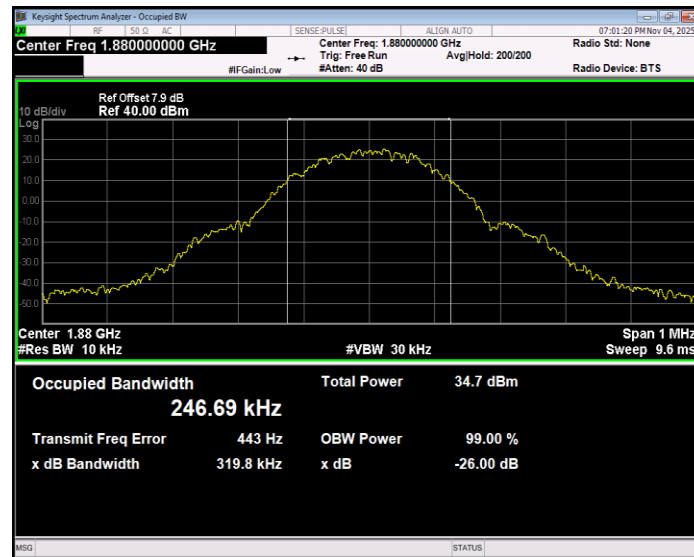
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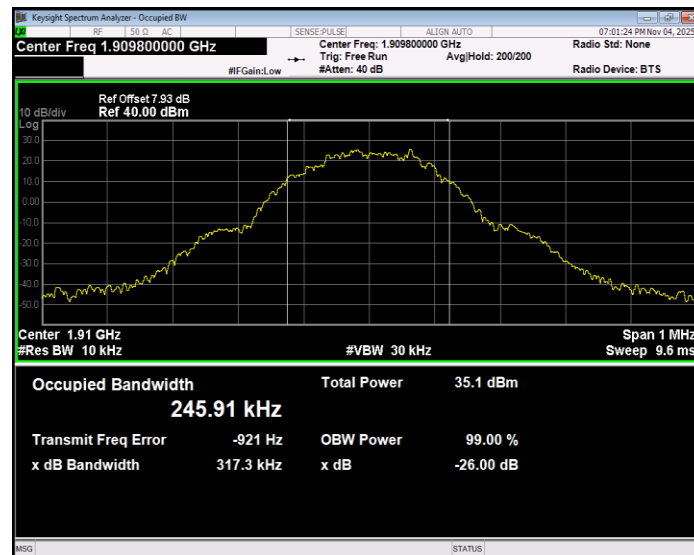


Report

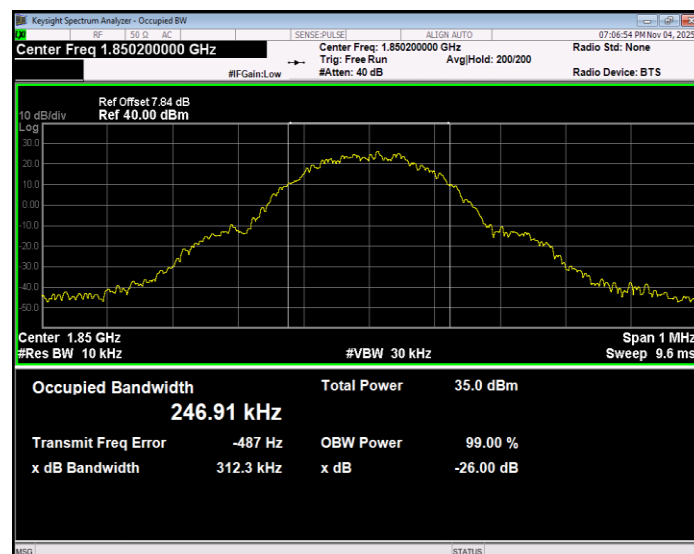
GSM1900 Channel=661



GSM1900 Channel=810



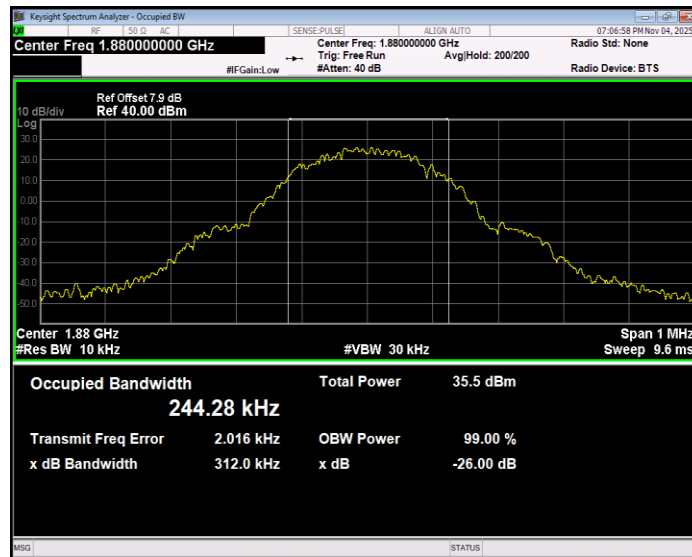
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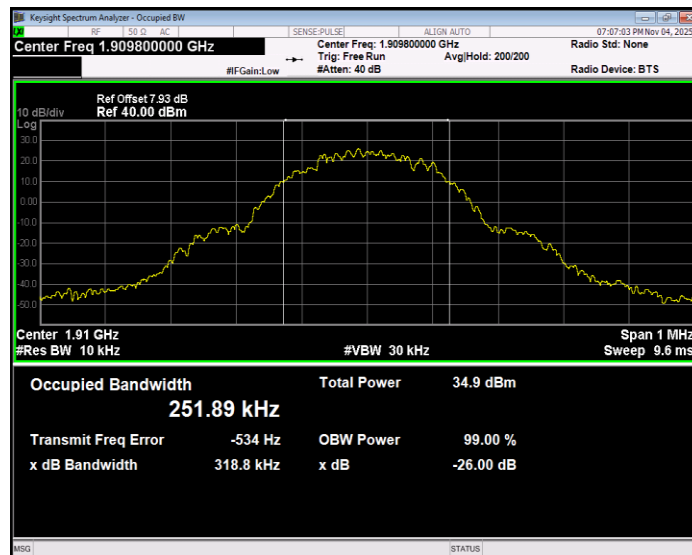


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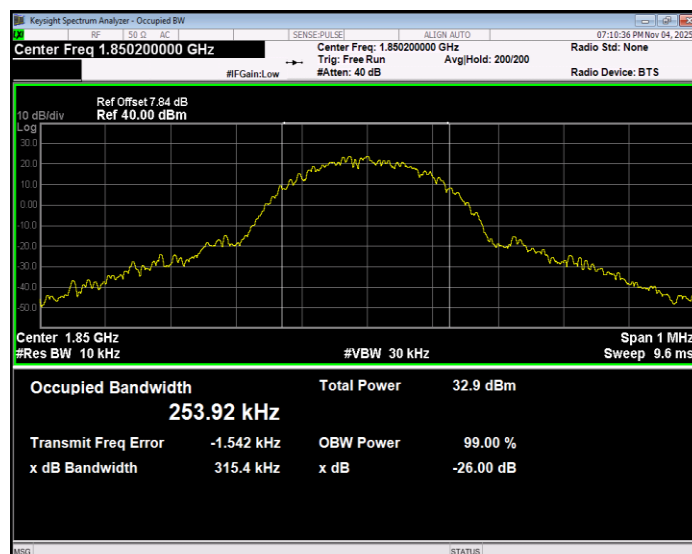
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GPRS1900 Channel=810



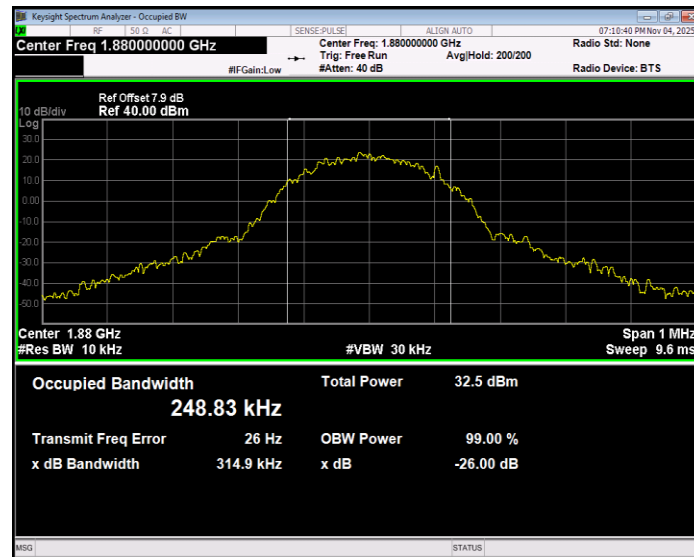
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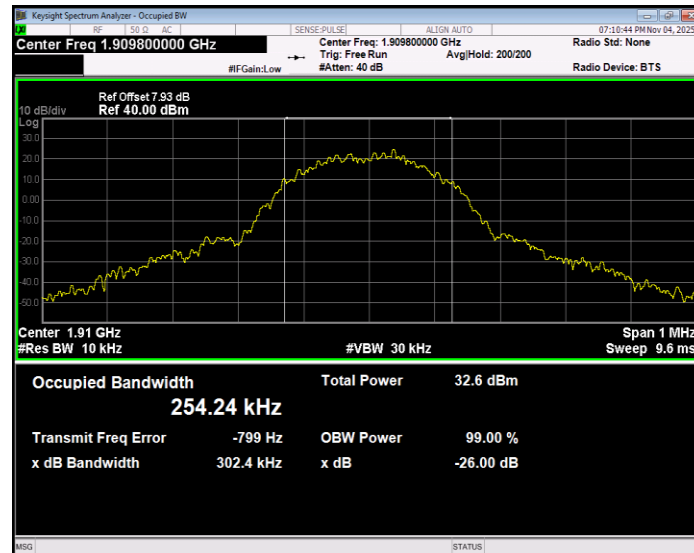


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



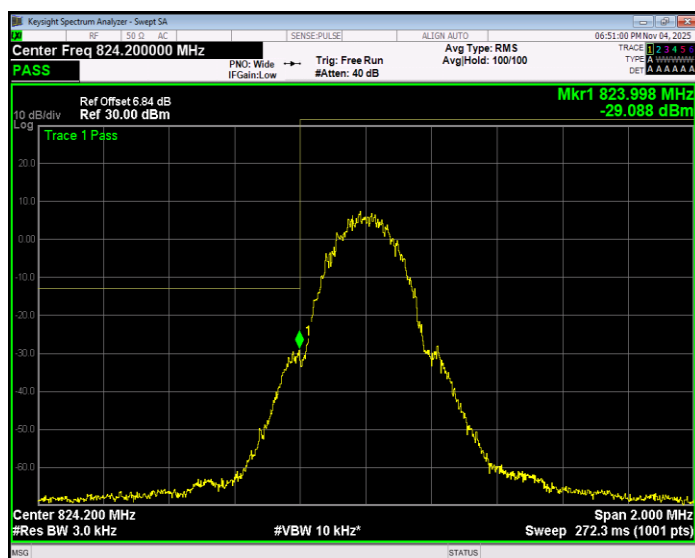


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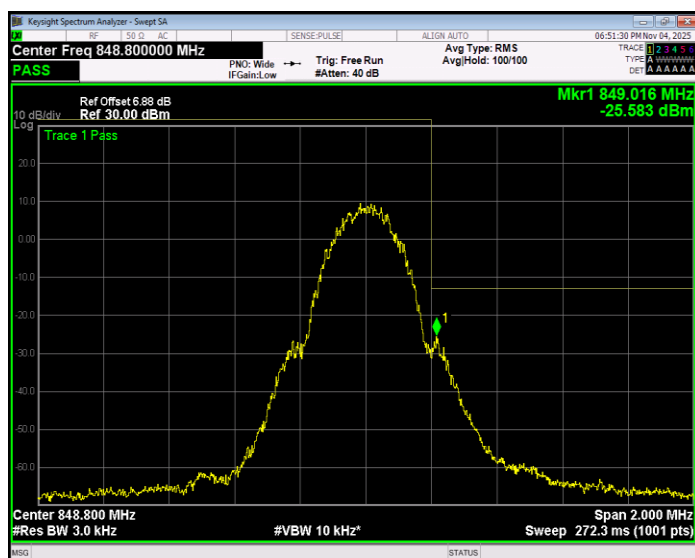
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-29.08	-13	PASS
GSM850	251	848.8	849.02	-25.58	-13	PASS
GPRS850	128	824.2	823.98	-28.28	-13	PASS
GPRS850	251	848.8	849.02	-26.52	-13	PASS
EGPRS850	128	824.2	823.97	-36.09	-13	PASS
EGPRS850	251	848.8	849.01	-34.93	-13	PASS
GSM1900	512	1850.2	1850.00	-30.70	-13	PASS
GSM1900	810	1909.8	1910.02	-29.36	-13	PASS
GPRS1900	512	1850.2	1849.98	-30.77	-13	PASS
GPRS1900	810	1909.8	1910.02	-31.94	-13	PASS
EGPRS1900	512	1850.2	1849.97	-37.09	-13	PASS
EGPRS1900	810	1909.8	1910.00	-35.77	-13	PASS

GSM850 Channel=128



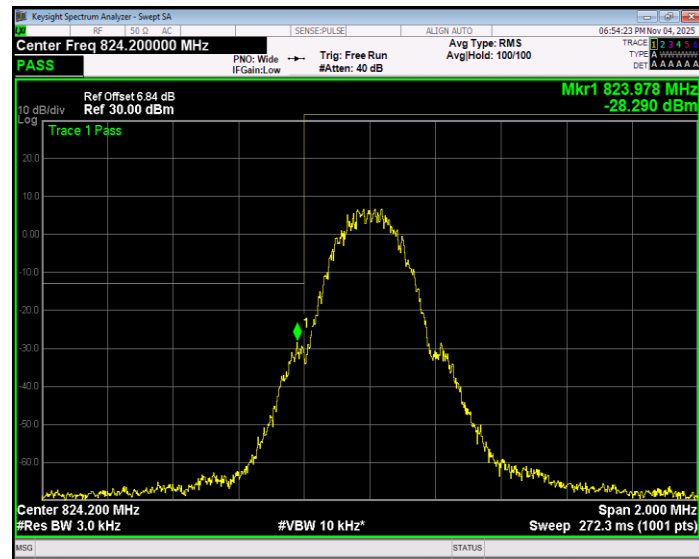
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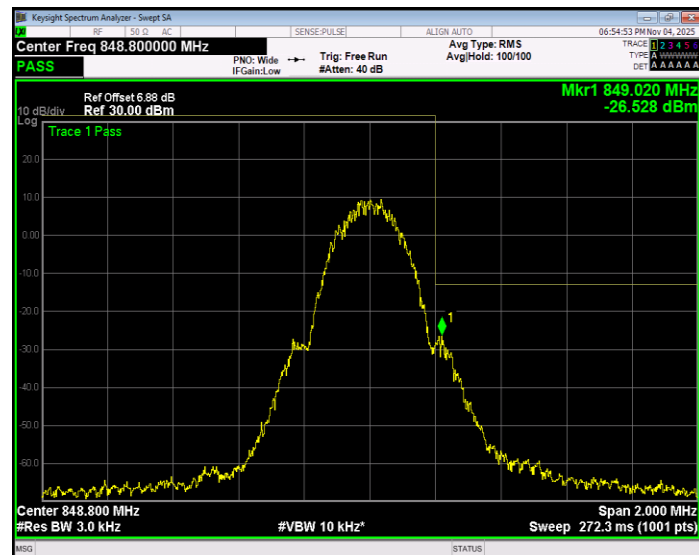


Report

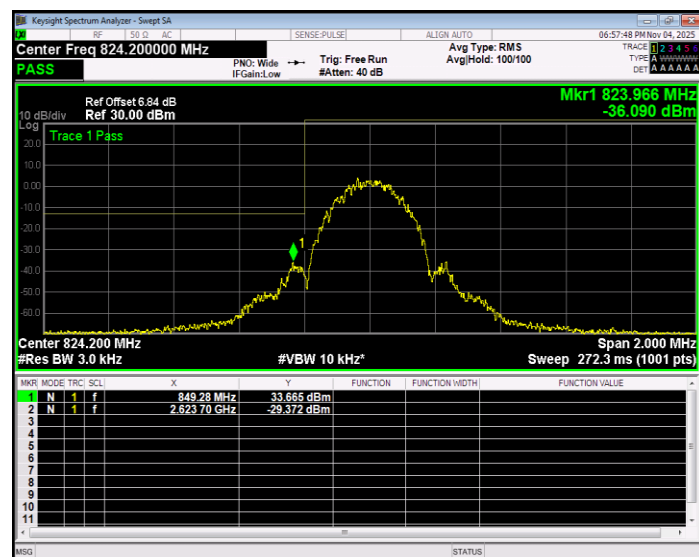
GPRS850 Channel=128



GPRS850 Channel=251



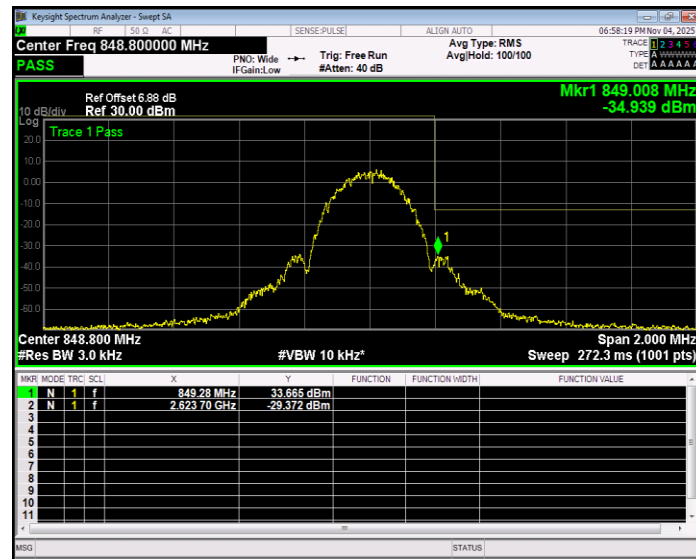
EGPRS850 Channel=128



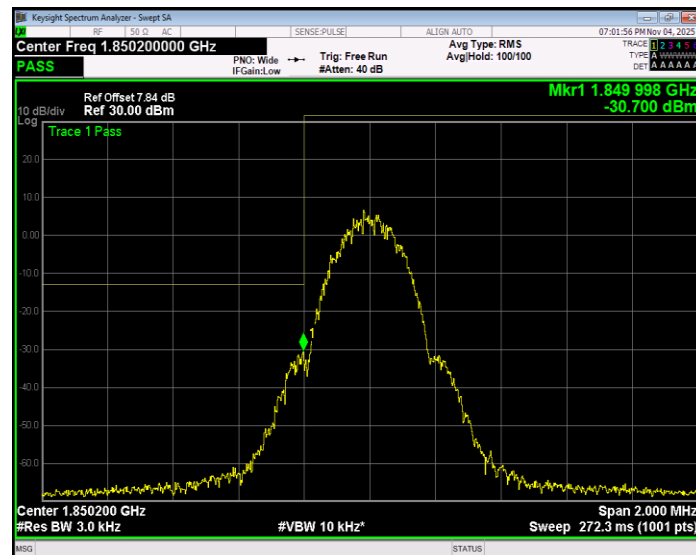


Report

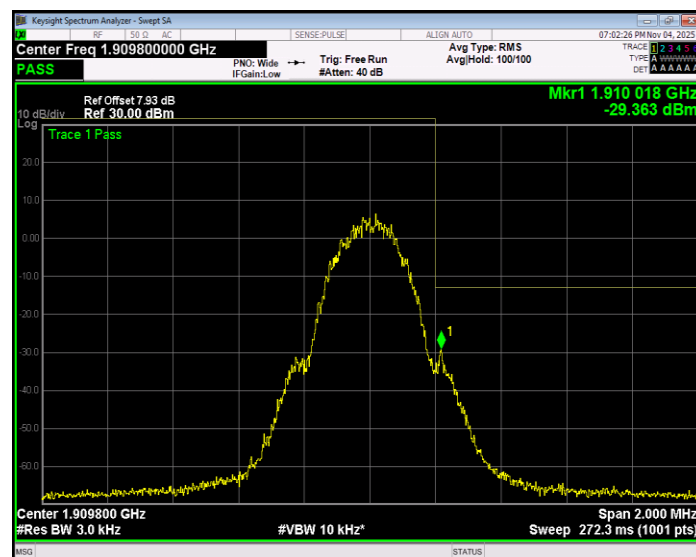
EGPRS850 Channel=251



GSM1900 Channel=512



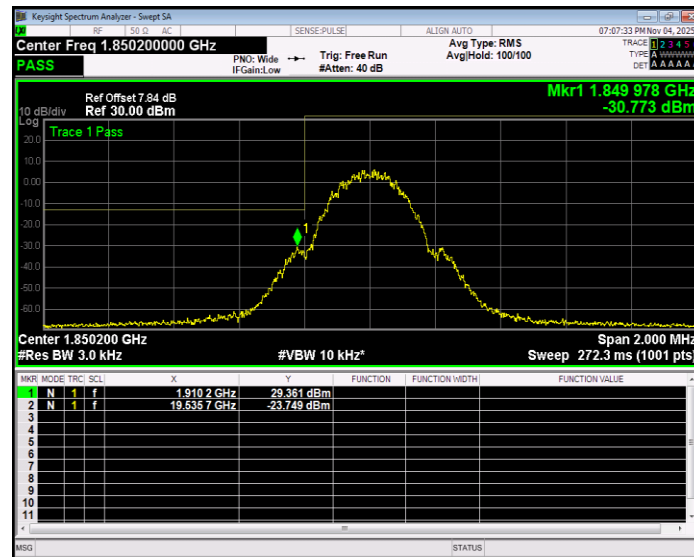
GSM1900 Channel=810



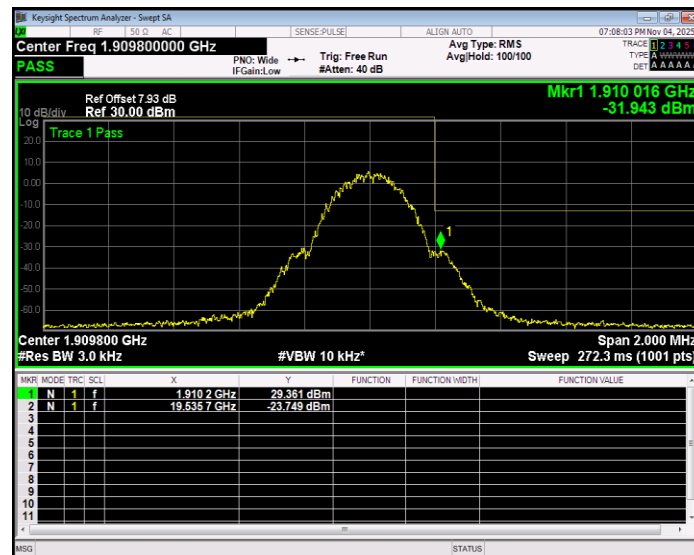


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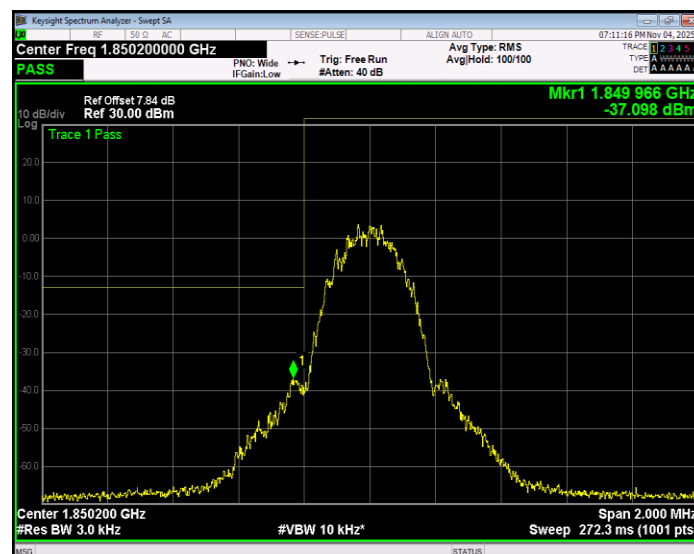
GPRS1900 Channel=512



GPRS1900 Channel=810



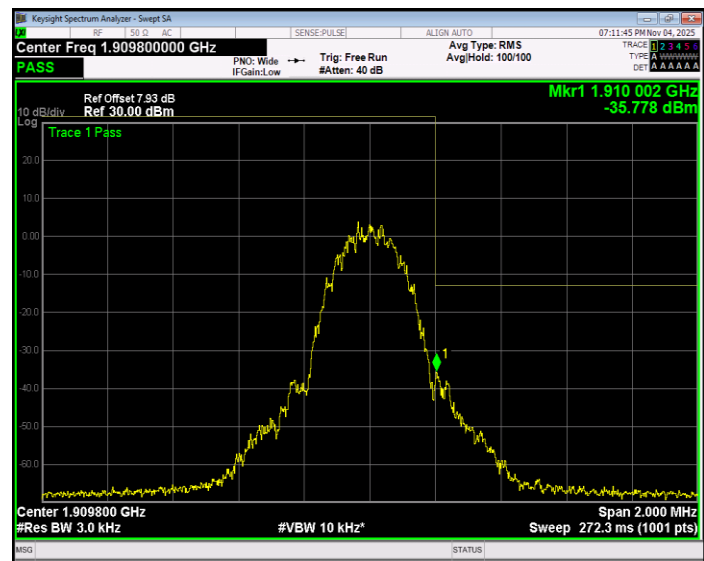
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



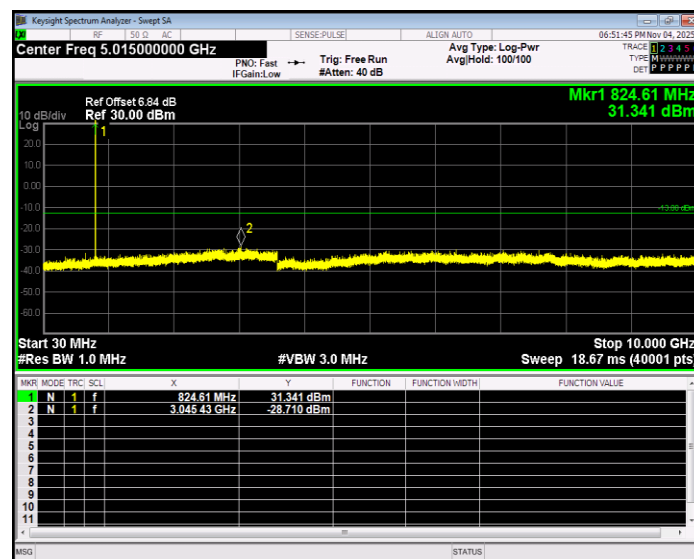


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	3045.43	-28.70	-13	PASS
GSM850	190	836.6	3087.30	-29.30	-13	PASS
GSM850	251	848.8	3118.46	-29.18	-13	PASS
GPRS850	128	824.2	2713.18	-29.01	-13	PASS
GPRS850	190	836.6	3160.33	-29.48	-13	PASS
GPRS850	251	848.8	2623.70	-29.37	-13	PASS
EGPRS850	128	824.2	3021.00	-29.26	-13	PASS
EGPRS850	190	836.6	2634.66	-29.09	-13	PASS
EGPRS850	251	848.8	3174.04	-29.51	-13	PASS
GSM1900	512	1850.2	16504.25	-23.78	-13	PASS
GSM1900	661	1880	19768.35	-24.38	-13	PASS
GSM1900	810	1909.8	19535.70	-23.74	-13	PASS
GPRS1900	512	1850.2	19789.32	-23.94	-13	PASS
GPRS1900	661	1880	19868.20	-23.18	-13	PASS
GPRS1900	810	1909.8	19969.55	-23.93	-13	PASS
EGPRS1900	512	1850.2	19787.32	-24.05	-13	PASS
EGPRS1900	661	1880	19721.42	-24.04	-13	PASS
EGPRS1900	810	1909.8	19795.81	-23.81	-13	PASS

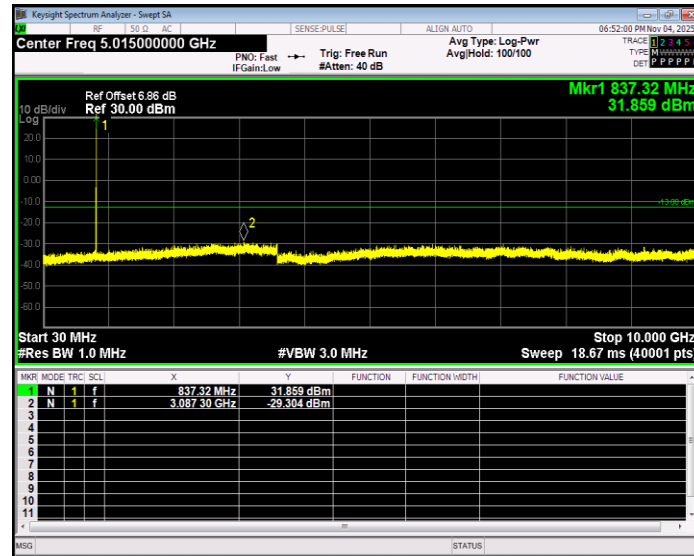
GSM850 Channel=128



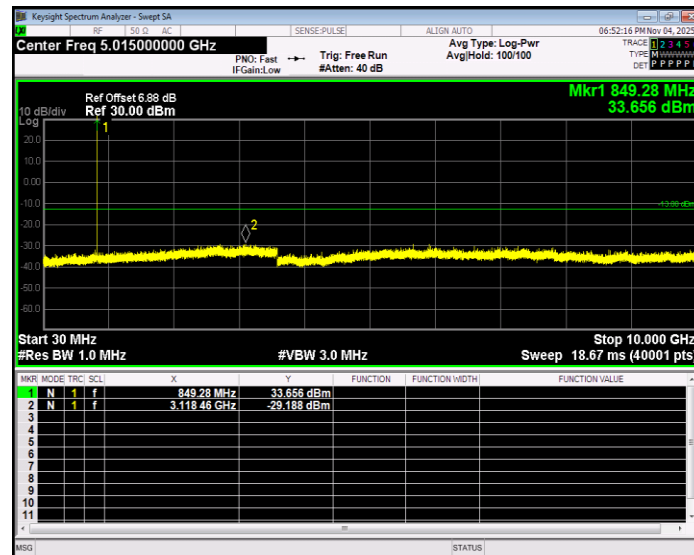
GSM850 Channel=190



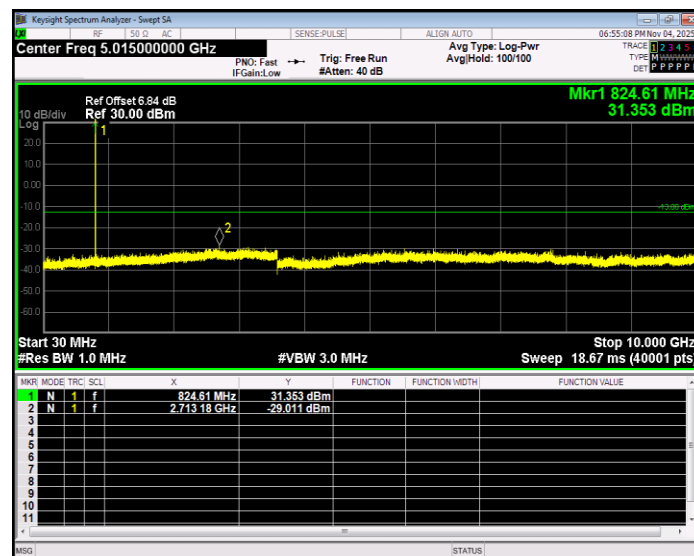
Report



GSM850 Channel=251



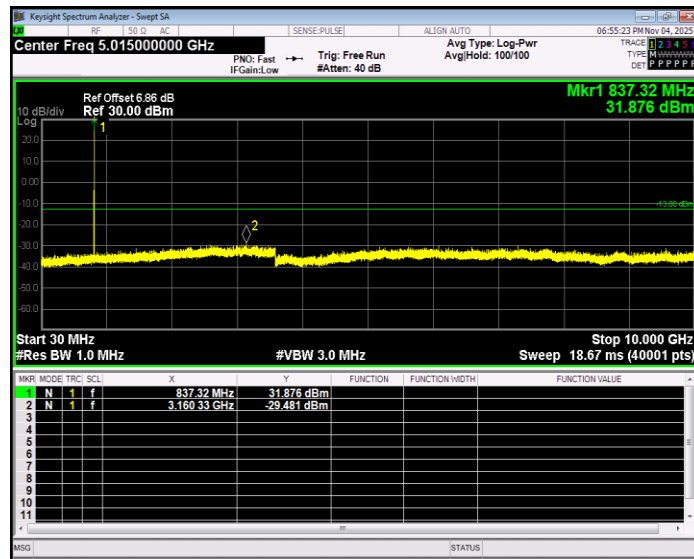
GPRS850 Channel=128



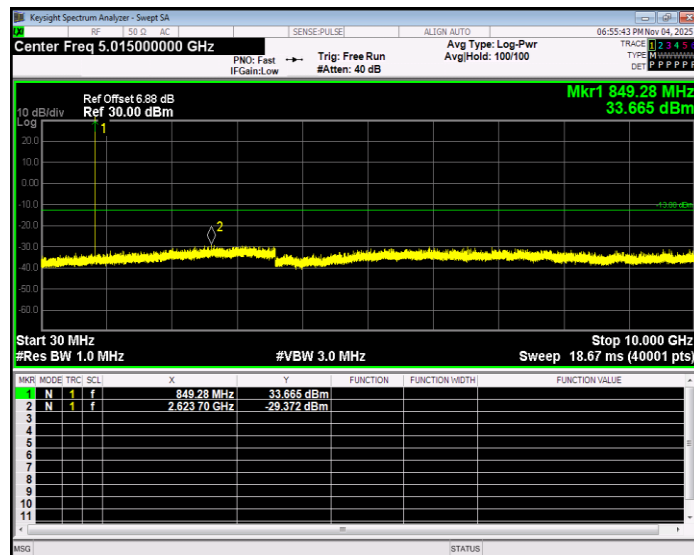


Report

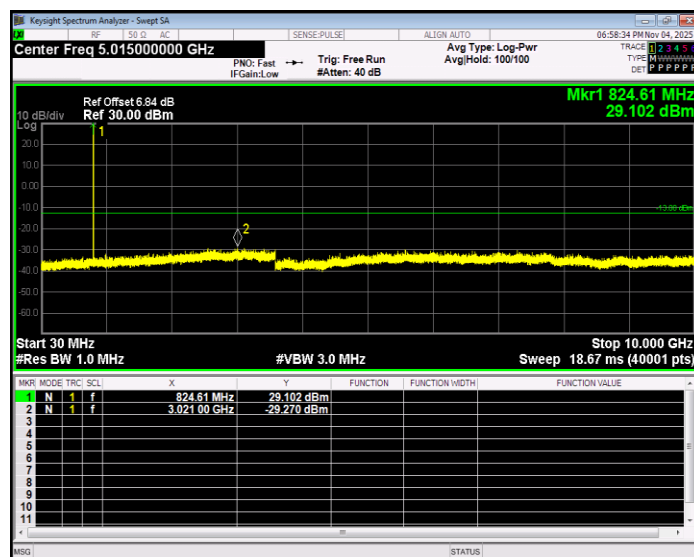
GPRS850 Channel=190



GPRS850 Channel=251



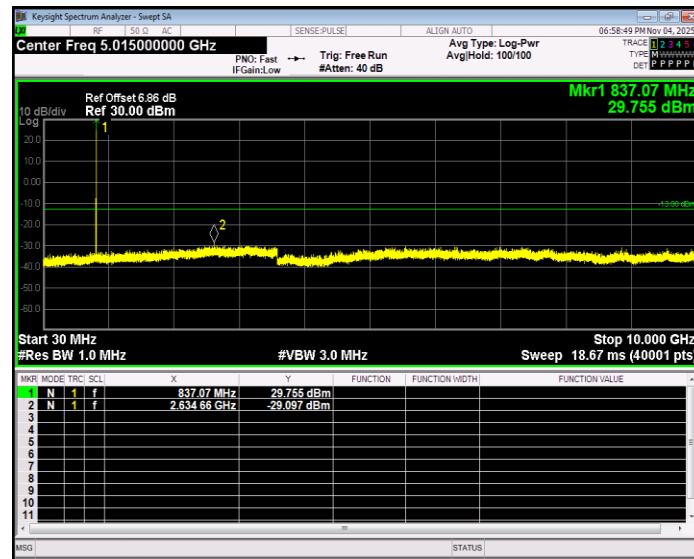
EGPRS850 Channel=128



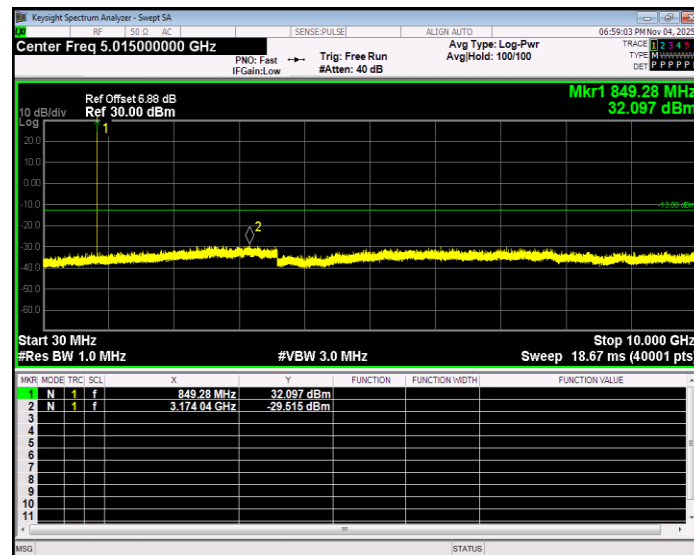


Report

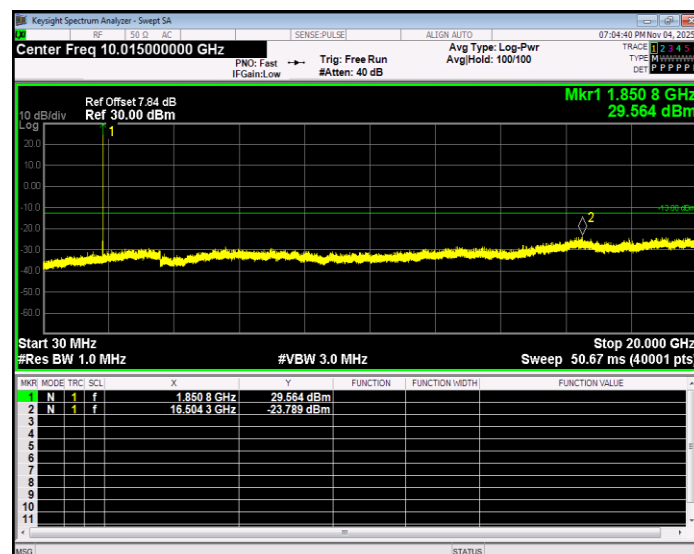
EGPRS850 Channel=190



EGPRS850 Channel=251



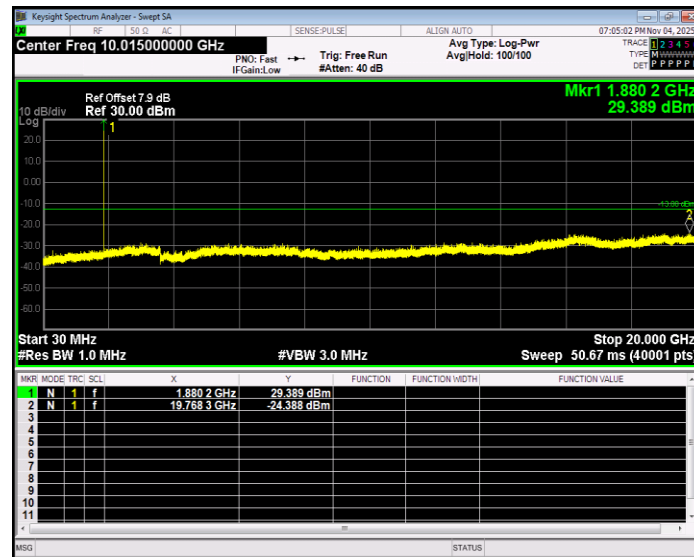
GSM1900 Channel=512



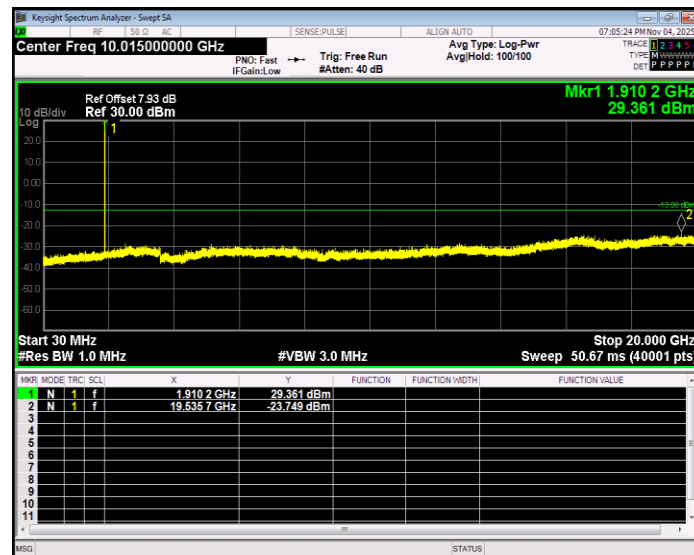


Report

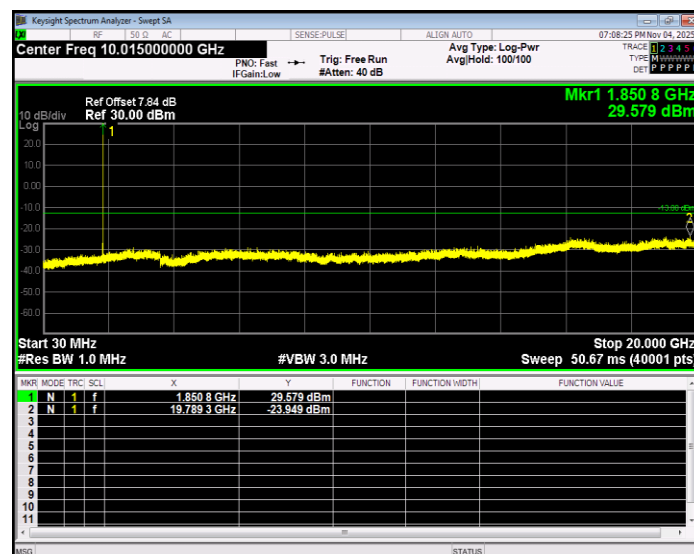
GSM1900 Channel=661



GSM1900 Channel=810



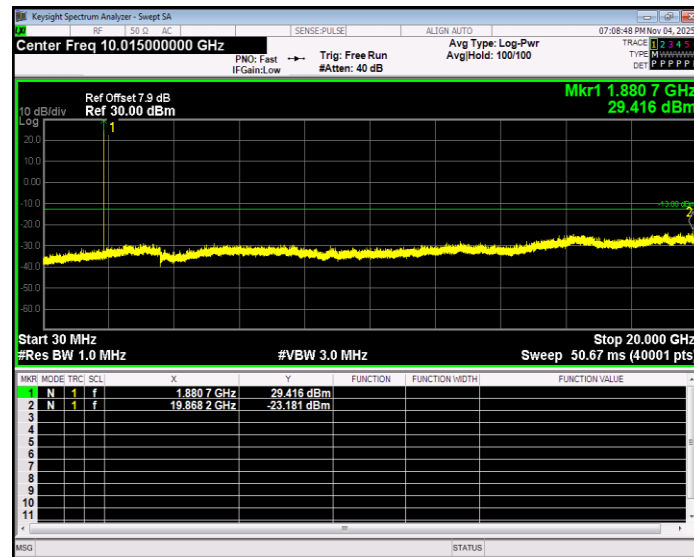
GPRS1900 Channel=512



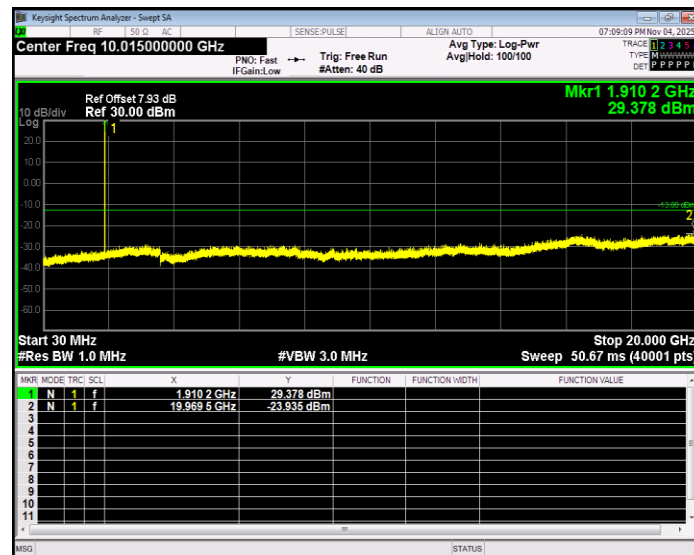


Report

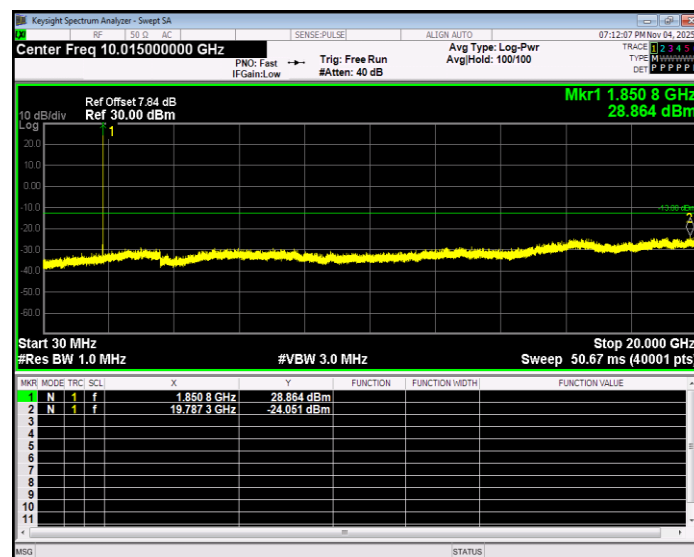
GPRS1900 Channel=661



GPRS1900 Channel=810



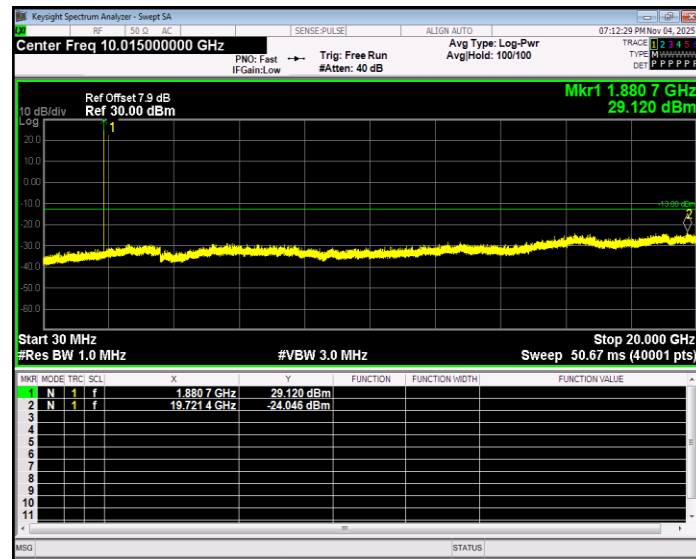
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

