



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	33.52	-2.38	28.99	38.45	PASS
GSM850	190	836.6	33.60	-2.38	29.07	38.45	PASS
GSM850	251	848.8	33.41	-2.38	28.88	38.45	PASS
GPRS850 1 Slot	128	824.2	33.55	-2.38	29.02	38.45	PASS
GPRS850 1 Slot	190	836.6	33.64	-2.38	29.11	38.45	PASS
GPRS850 1 Slot	251	848.8	33.41	-2.38	28.88	38.45	PASS
GPRS850 2 Slot	128	824.2	31.44	-2.38	26.91	38.45	PASS
GPRS850 2 Slot	190	836.6	31.41	-2.38	26.88	38.45	PASS
GPRS850 2 Slot	251	848.8	31.08	-2.38	26.55	38.45	PASS
GPRS850 3 Slot	128	824.2	29.43	-2.38	24.90	38.45	PASS
GPRS850 3 Slot	190	836.6	29.46	-2.38	24.93	38.45	PASS
GPRS850 3 Slot	251	848.8	29.11	-2.38	24.58	38.45	PASS
GPRS850 4 Slot	128	824.2	27.15	-2.38	22.62	38.45	PASS
GPRS850 4 Slot	190	836.6	27.33	-2.38	22.80	38.45	PASS
GPRS850 4 Slot	251	848.8	26.97	-2.38	22.44	38.45	PASS
EGPRS850 1 Slot	128	824.2	27.60	-2.38	23.07	38.45	PASS
EGPRS850 1 Slot	190	836.6	27.89	-2.38	23.36	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.59	-2.38	23.06	38.45	PASS
EGPRS850 2 Slot	128	824.2	27.00	-2.38	22.47	38.45	PASS
EGPRS850 2 Slot	190	836.6	27.03	-2.38	22.50	38.45	PASS
EGPRS850 2 Slot	251	848.8	26.89	-2.38	22.36	38.45	PASS
EGPRS850 3 Slot	128	824.2	23.17	-2.38	18.64	38.45	PASS
EGPRS850 3 Slot	190	836.6	23.27	-2.38	18.74	38.45	PASS
EGPRS850 3 Slot	251	848.8	22.87	-2.38	18.34	38.45	PASS
EGPRS850 4 Slot	128	824.2	20.33	-2.38	15.80	38.45	PASS
EGPRS850 4 Slot	190	836.6	20.79	-2.38	16.26	38.45	PASS
EGPRS850 4 Slot	251	848.8	19.99	-2.38	15.46	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	29.63	-1.45	28.18	33.01	PASS
GSM1900	661	1880	29.76	-1.45	28.31	33.01	PASS
GSM1900	810	1909.8	29.77	-1.45	28.32	33.01	PASS
GPRS1900 1 Slot	512	1850.2	27.23	-1.45	25.78	33.01	PASS
GPRS1900 1 Slot	661	1880	27.67	-1.45	26.22	33.01	PASS
GPRS1900 1 Slot	810	1909.8	26.90	-1.45	25.45	33.01	PASS
GPRS1900 2 Slot	512	1850.2	25.45	-1.45	24.00	33.01	PASS
GPRS1900 2 Slot	661	1880	25.46	-1.45	24.01	33.01	PASS
GPRS1900 2 Slot	810	1909.8	25.29	-1.45	23.84	33.01	PASS
GPRS1900 3 Slot	512	1850.2	22.14	-1.45	20.69	33.01	PASS
GPRS1900 3 Slot	661	1880	22.70	-1.45	21.25	33.01	PASS
GPRS1900 3 Slot	810	1909.8	22.44	-1.45	20.99	33.01	PASS
GPRS1900 4 Slot	512	1850.2	19.72	-1.45	18.27	33.01	PASS
GPRS1900 4 Slot	661	1880	19.59	-1.45	18.14	33.01	PASS
GPRS1900 4 Slot	810	1909.8	19.44	-1.45	17.99	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	27.00	-1.45	25.55	33.01	PASS
EGPRS1900 1 Slot	661	1880	27.32	-1.45	25.87	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	26.93	-1.45	25.48	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	25.43	-1.45	23.98	33.01	PASS
EGPRS1900 2 Slot	661	1880	25.33	-1.45	23.88	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	25.27	-1.45	23.82	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	22.19	-1.45	20.74	33.01	PASS
EGPRS1900 3 Slot	661	1880	22.11	-1.45	20.66	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	22.33	-1.45	20.88	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	19.36	-1.45	17.91	33.01	PASS
EGPRS1900 4 Slot	661	1880	19.35	-1.45	17.90	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	18.79	-1.45	17.34	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	-5.15	-0.006	2.5ppm	PASS
40		5.30	0.006		
30		4.76	0.006		
20		8.39	0.010		
10		5.23	0.006		
0		4.92	0.006		
-10		4.76	0.006		
-20		-5.09	-0.006		
-30		-5.05	-0.006		
20	Maximum Voltage	-5.20	-0.006		
20	BEP	-4.89	-0.006		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	7.30	0.009	2.5ppm	PASS
40		7.30	0.009		
30		-7.00	-0.008		
20		12.59	0.015		
10		-7.21	-0.009		
0		7.38	0.009		
-10		6.93	0.008		
-20		-7.05	-0.008		
-30		-7.33	-0.009		
20	Maximum Voltage	-7.21	-0.009		
20	BEP	7.00	0.008		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	6.46	0.008	2.5ppm	PASS
40		-6.21	-0.007		
30		-6.43	-0.008		
20		10.75	0.013		
10		6.22	0.007		
0		6.09	0.007		
-10		-6.34	-0.008		
-20		6.21	0.007		
-30		6.08	0.007		
20	Maximum Voltage	6.02	0.007		
20	BEP	-6.28	-0.008		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	5.85	0.003	Within Authorized Band	PASS
40		-5.67	-0.003		
30		5.79	0.003		
20		-13.43	-0.007		
10		-5.83	-0.003		
0		-6.11	-0.003		
-10		5.61	0.003		
-20		-5.65	-0.003		
-30		-5.79	-0.003		
20	Maximum Voltage	-6.18	-0.003		
20	BEP	-5.68	-0.003		



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GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-15.89	-0.008	Within Authorized Band	PASS
40		16.30	0.009		
30		15.93	0.008		
20		30.54	0.016		
10		-15.88	-0.008		
0		-16.24	-0.009		
-10		15.98	0.008		
-20		-16.31	-0.009		
-30		-16.00	-0.009		
20	Maximum Voltage	-15.80	-0.008		
20	BEP	-15.95	-0.008		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.22	0.000	Within Authorized Band	PASS
40		-0.05	0.000		
30		-0.01	0.000		
20		-1.58	-0.001		
10		0.16	0.000		
0		0.13	0.000		
-10		0.27	0.000		
-20		0.31	0.000		
-30		0.23	0.000		
20	Maximum Voltage	-0.13	0.000		
20	BEP	0.16	0.000		

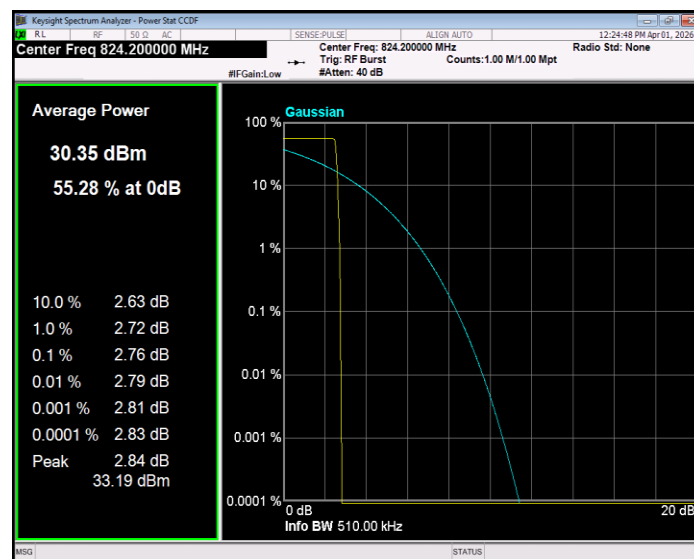


Report

Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.76	13	PASS
GSM850	190	836.6	2.71	13	PASS
GSM850	251	848.8	2.77	13	PASS
GPRS850	128	824.2	2.80	13	PASS
GPRS850	190	836.6	2.73	13	PASS
GPRS850	251	848.8	2.80	13	PASS
EGPRS850	128	824.2	7.89	13	PASS
EGPRS850	190	836.6	8.65	13	PASS
EGPRS850	251	848.8	8.13	13	PASS
GSM1900	512	1850.2	2.79	13	PASS
GSM1900	661	1880	2.79	13	PASS
GSM1900	810	1909.8	2.80	13	PASS
GPRS1900	512	1850.2	2.84	13	PASS
GPRS1900	661	1880	2.82	13	PASS
GPRS1900	810	1909.8	2.84	13	PASS
EGPRS1900	512	1850.2	5.73	13	PASS
EGPRS1900	661	1880	5.73	13	PASS
EGPRS1900	810	1909.8	5.80	13	PASS

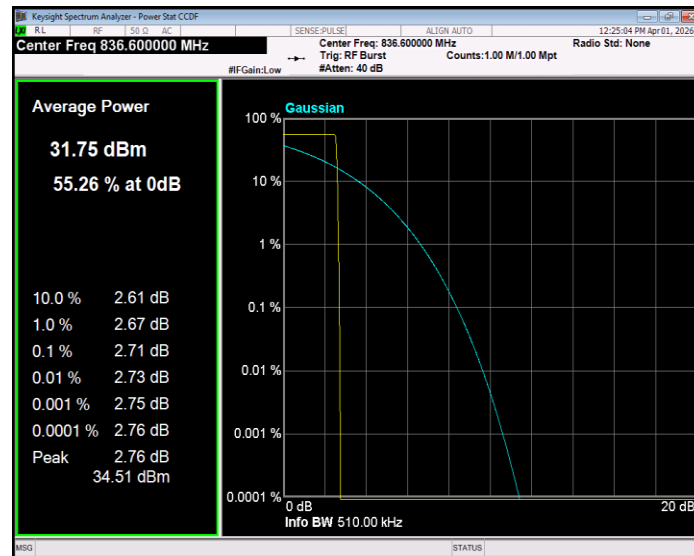
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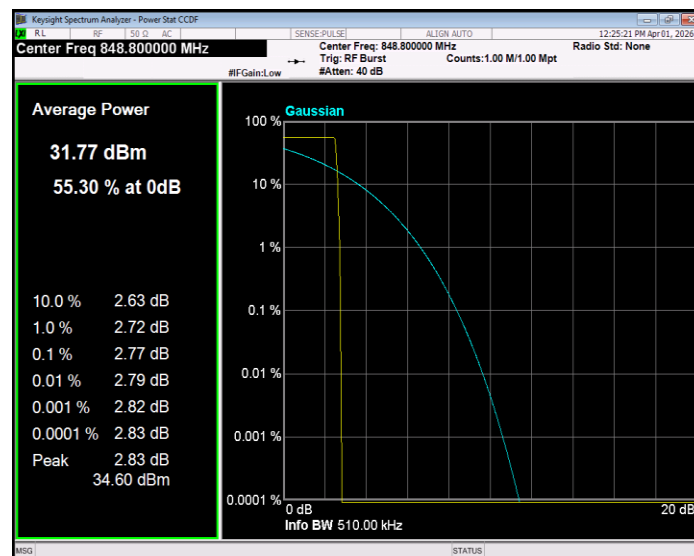
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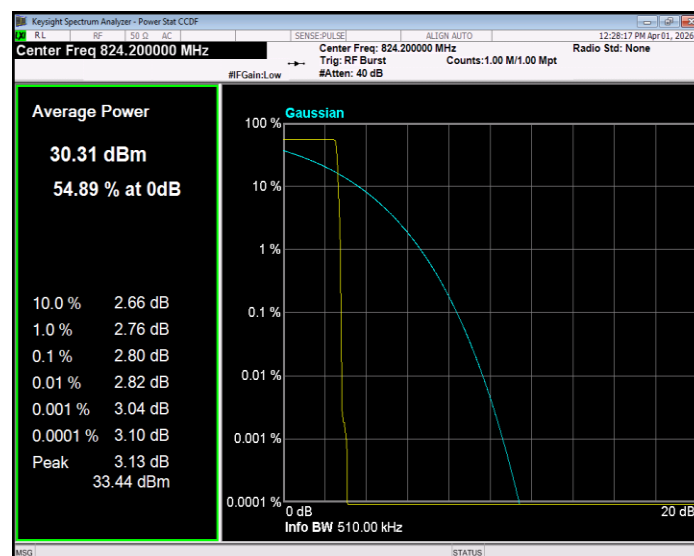
Report



GSM850 Channel=251



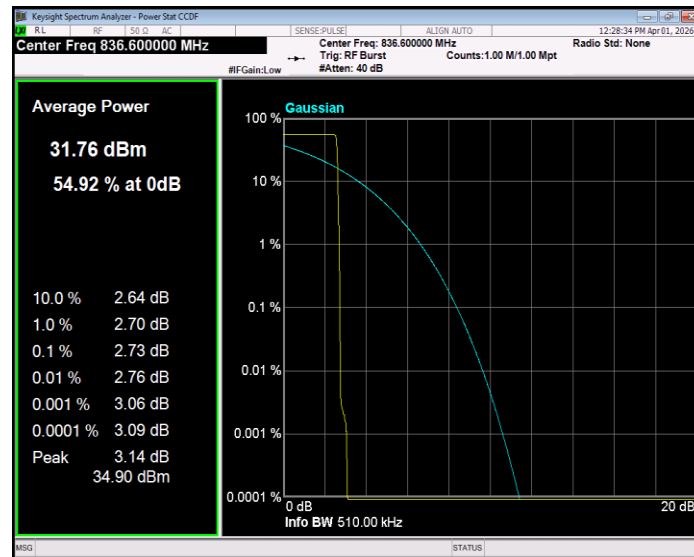
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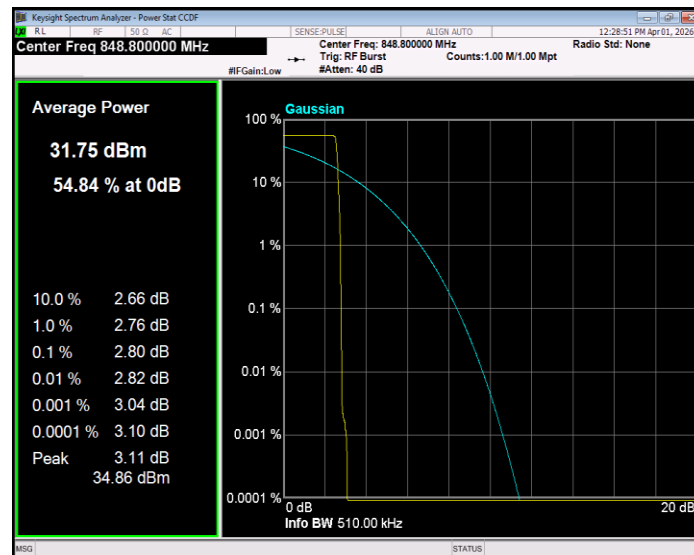


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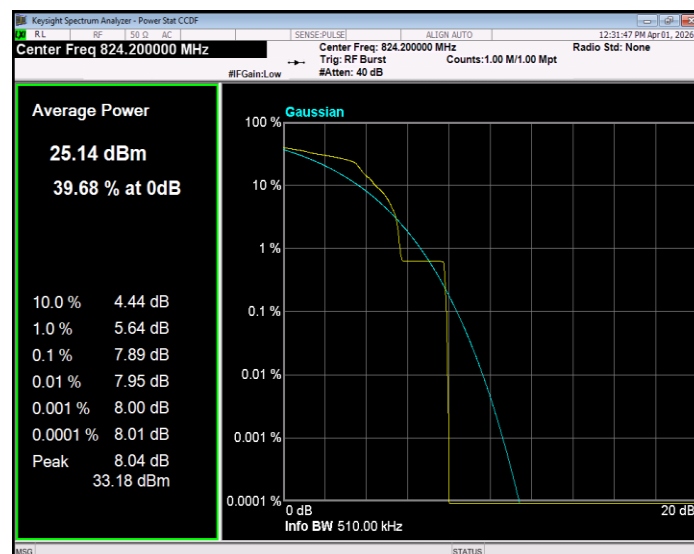
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GPRS850 Channel=251



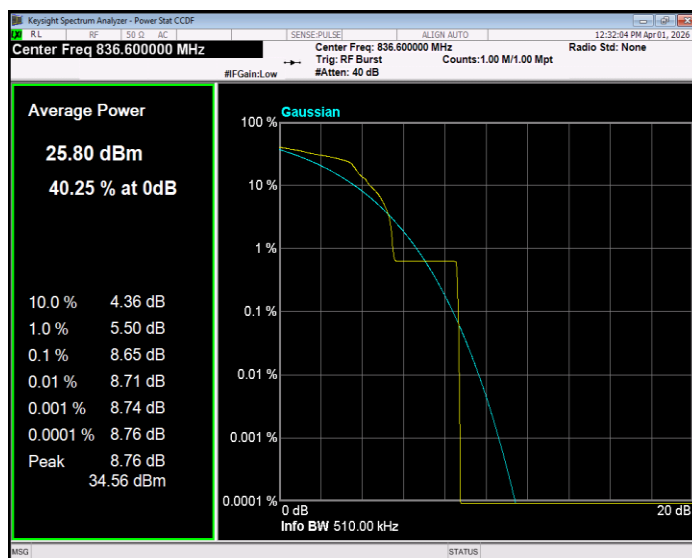
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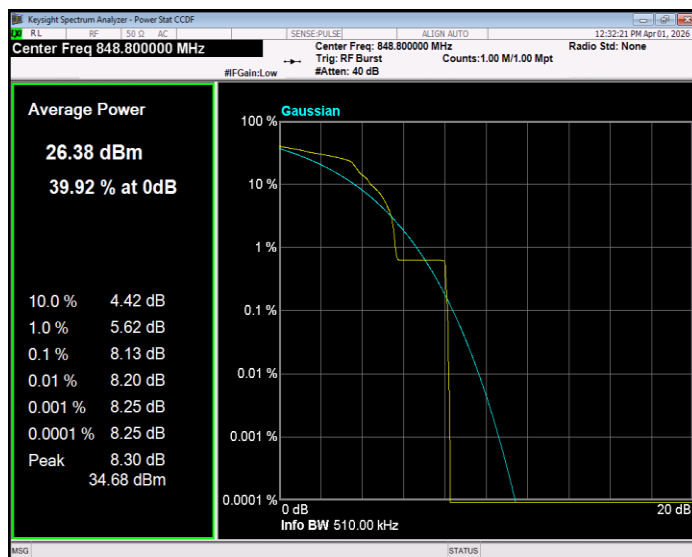


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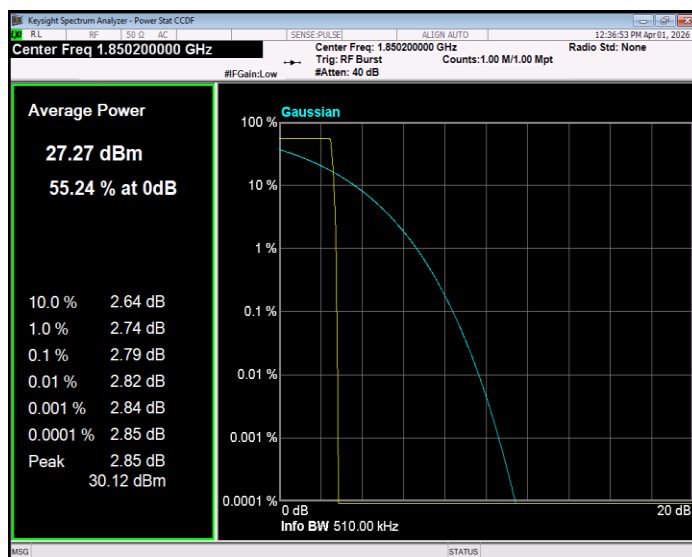
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EGPRS850 Channel=251



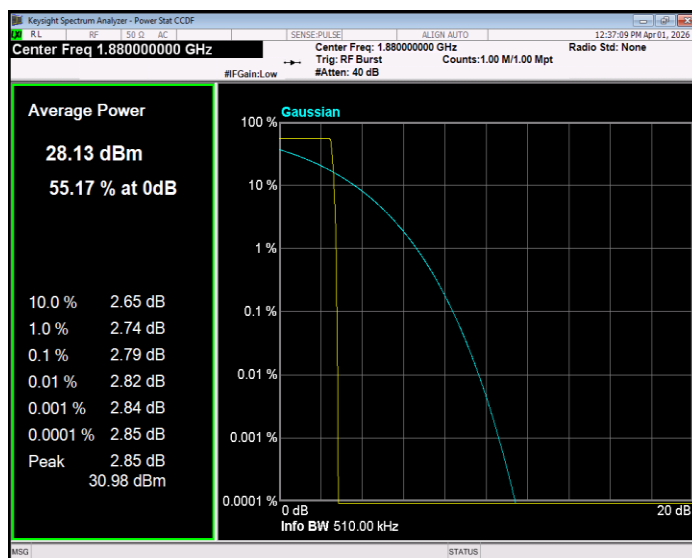
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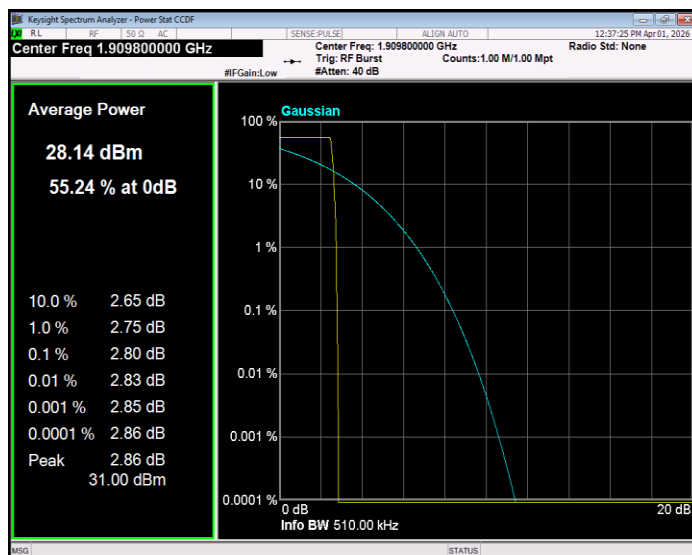


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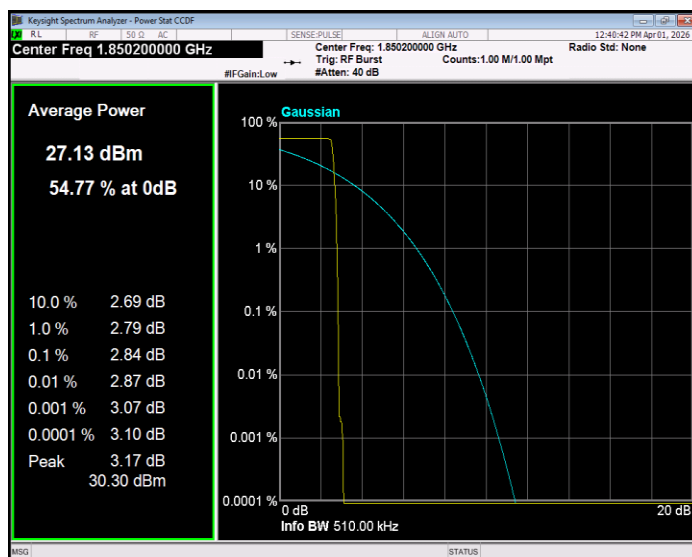
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GSM1900 Channel=810



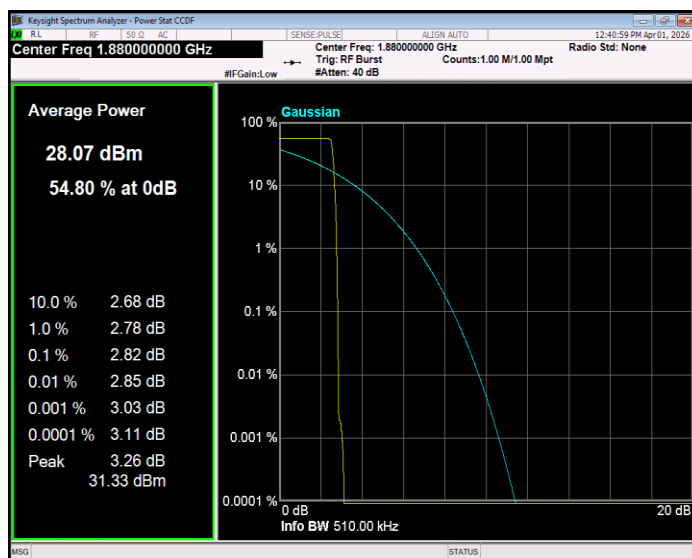
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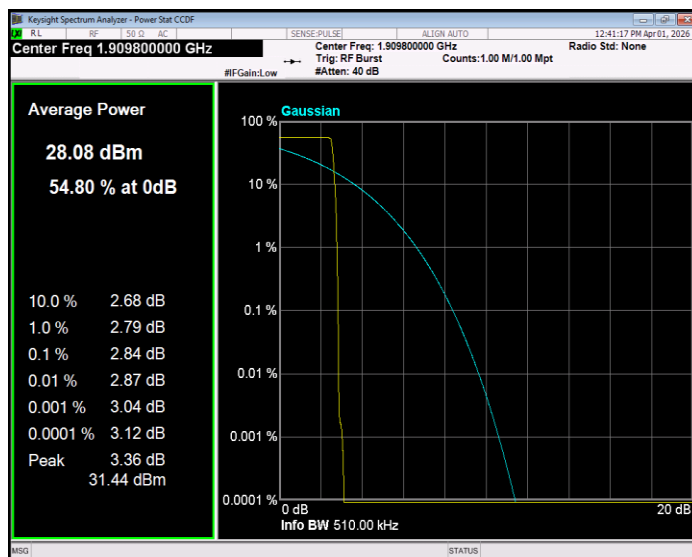


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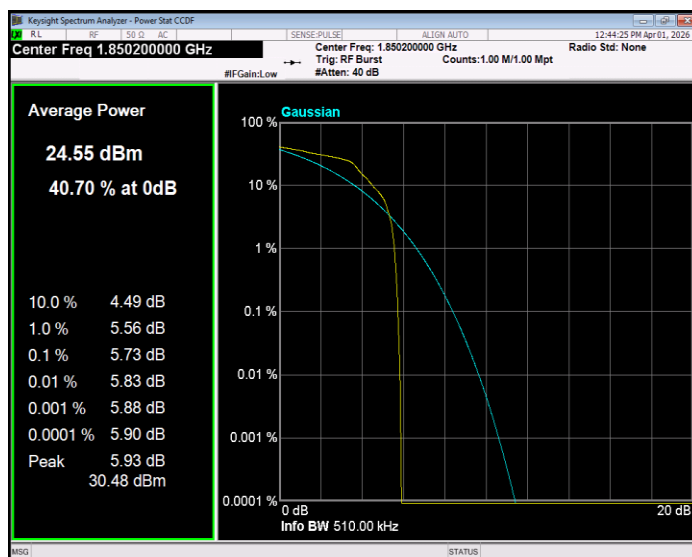
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GPRS1900 Channel=810



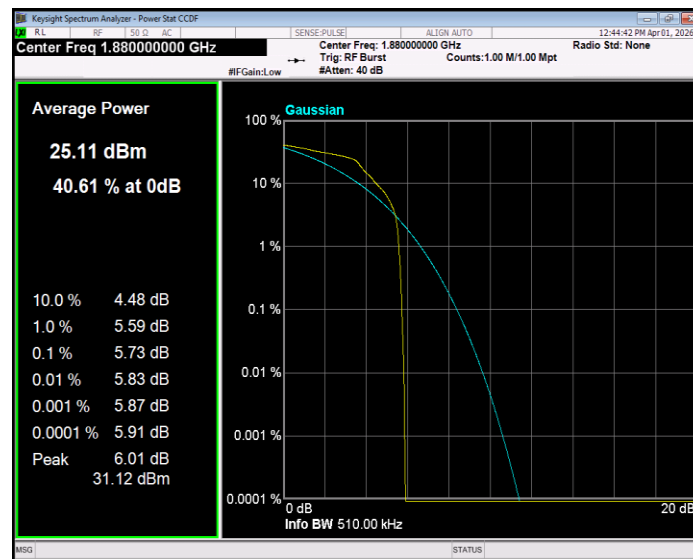
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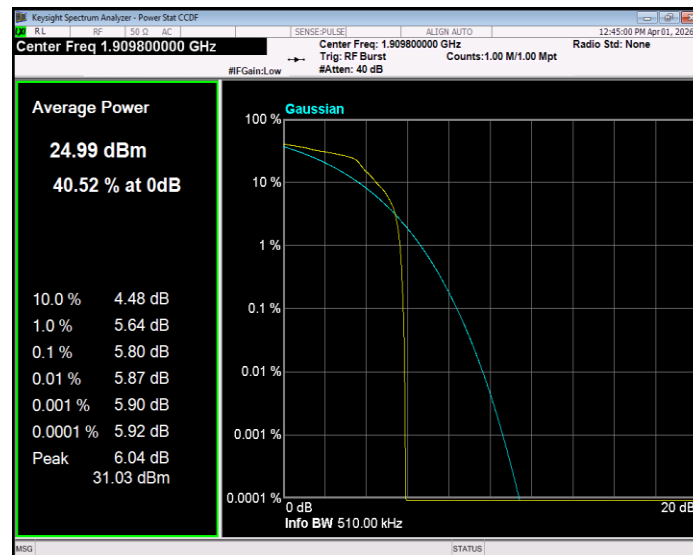


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EGPRS1900 Channel=661



EGPRS1900 Channel=810



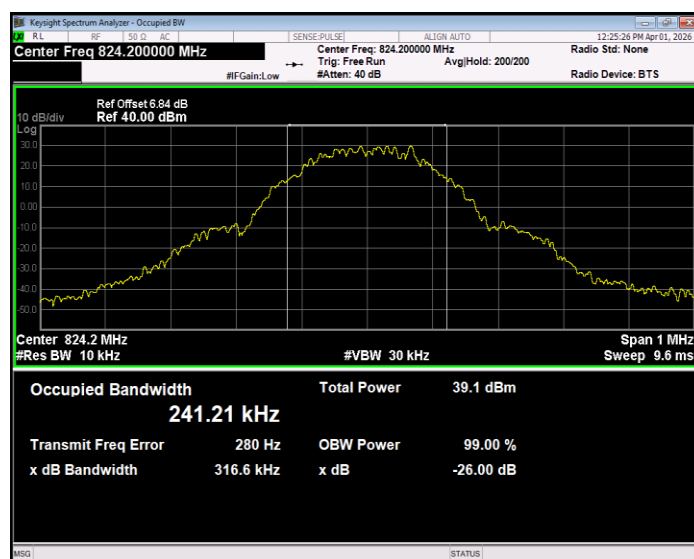


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	241.211	316.616	PASS
GSM850	190	836.6	243.006	313.708	PASS
GSM850	251	848.8	240.724	321.910	PASS
GPRS850	128	824.2	245.386	314.738	PASS
GPRS850	190	836.6	244.257	312.176	PASS
GPRS850	251	848.8	248.934	314.537	PASS
EGPRS850	128	824.2	248.688	311.144	PASS
EGPRS850	190	836.6	245.727	304.445	PASS
EGPRS850	251	848.8	237.018	293.264	PASS
GSM1900	512	1850.2	248.330	324.786	PASS
GSM1900	661	1880	241.557	309.061	PASS
GSM1900	810	1909.8	245.369	315.802	PASS
GPRS1900	512	1850.2	242.339	323.594	PASS
GPRS1900	661	1880	243.506	315.766	PASS
GPRS1900	810	1909.8	243.230	319.454	PASS
EGPRS1900	512	1850.2	239.364	303.476	PASS
EGPRS1900	661	1880	243.571	305.441	PASS
EGPRS1900	810	1909.8	243.713	313.729	PASS

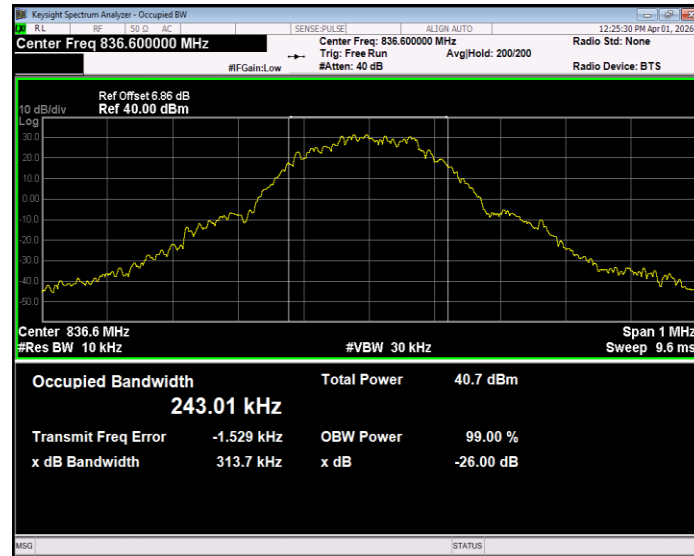
GSM850 Channel=128



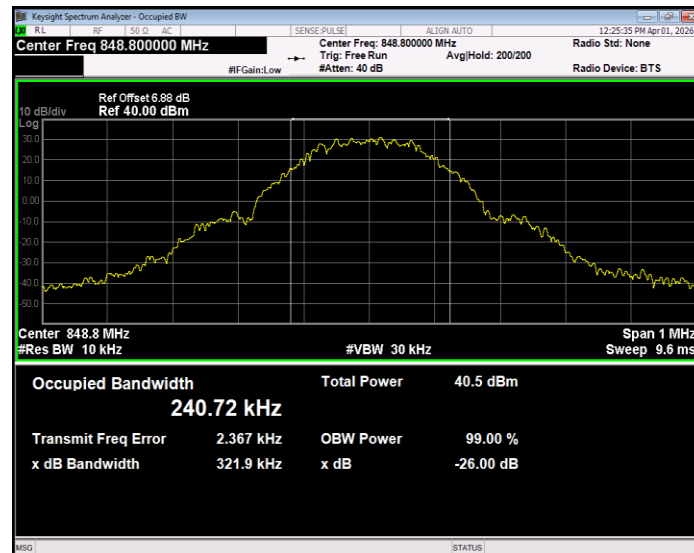
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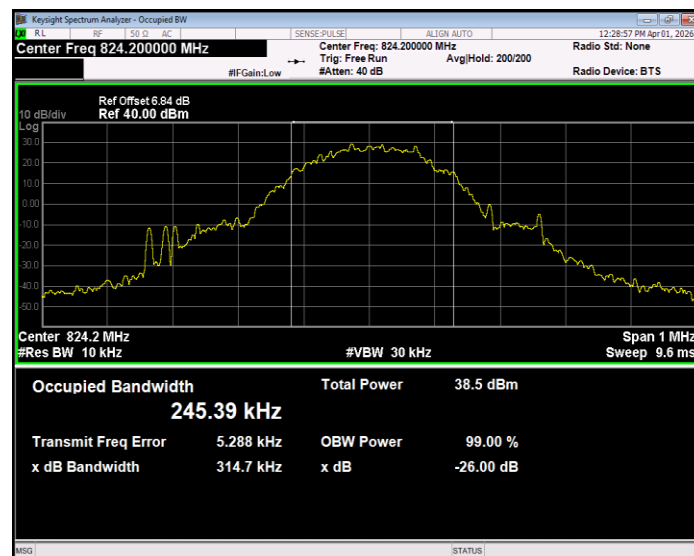
Report



GSM850 Channel=251



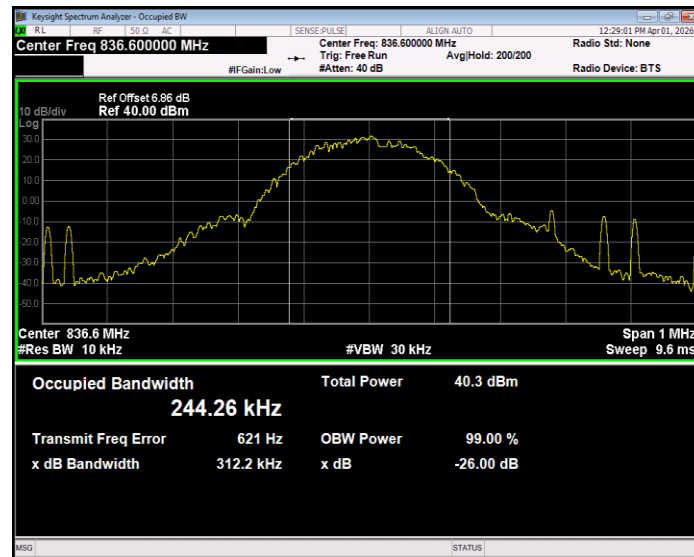
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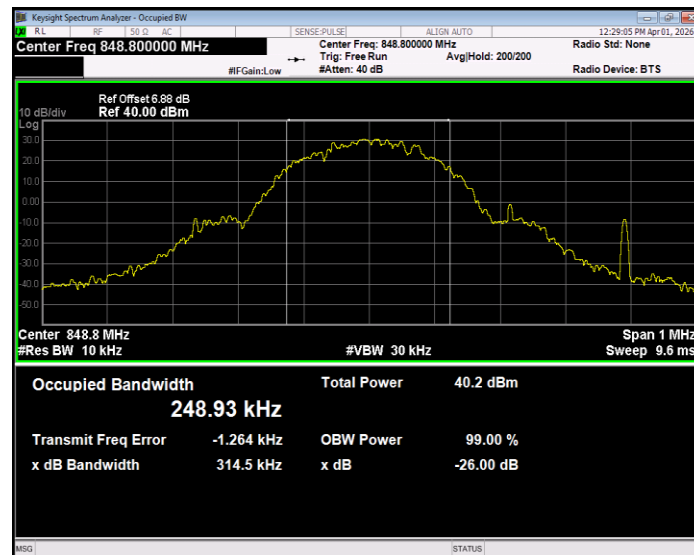


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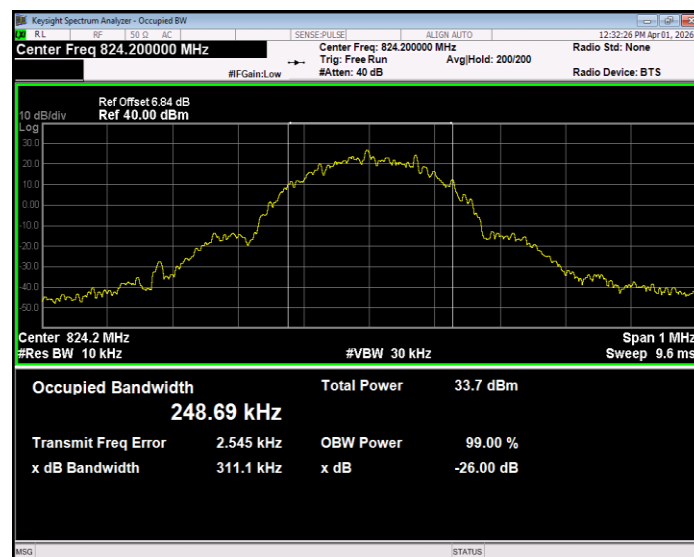
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GPRS850 Channel=251



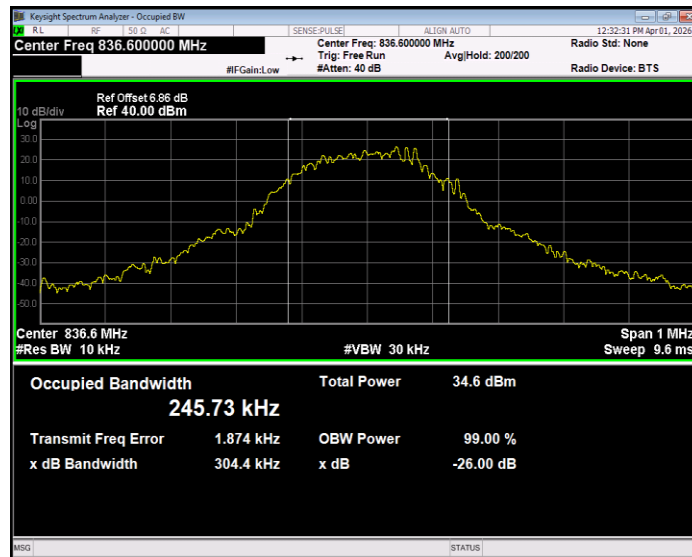
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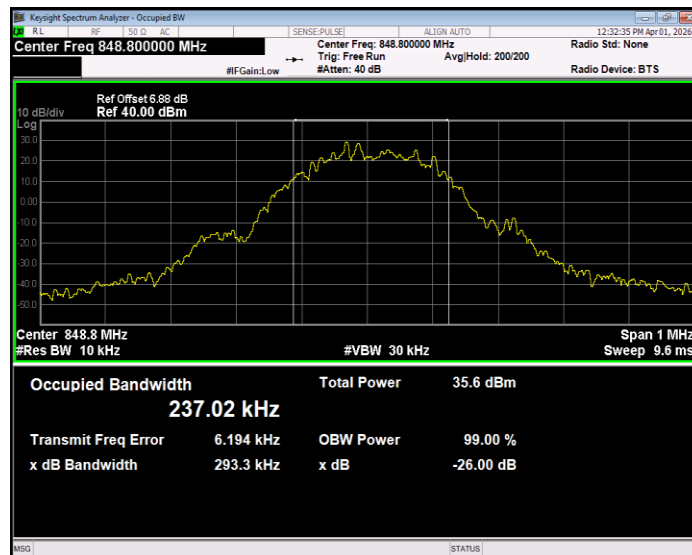


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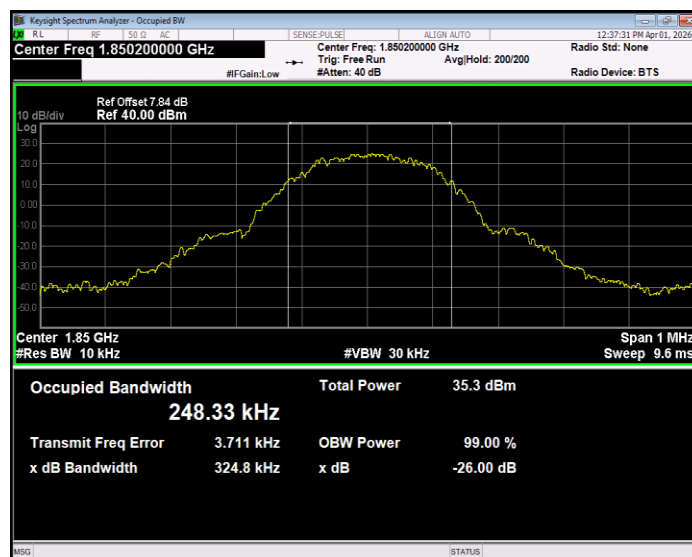
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EGPRS850 Channel=251



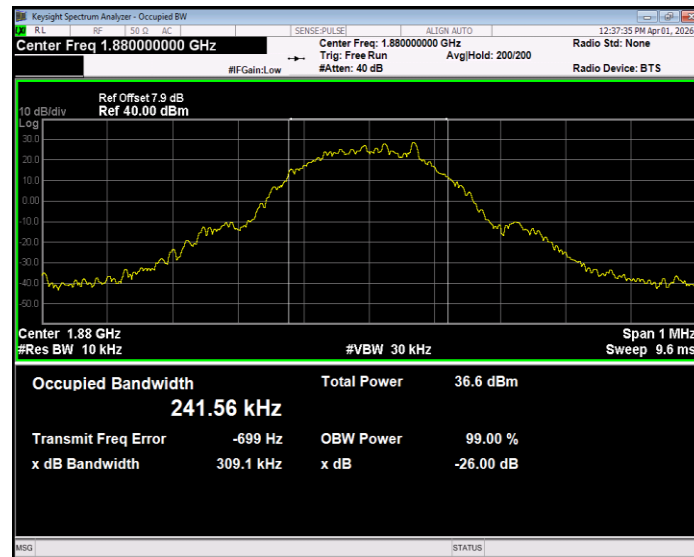
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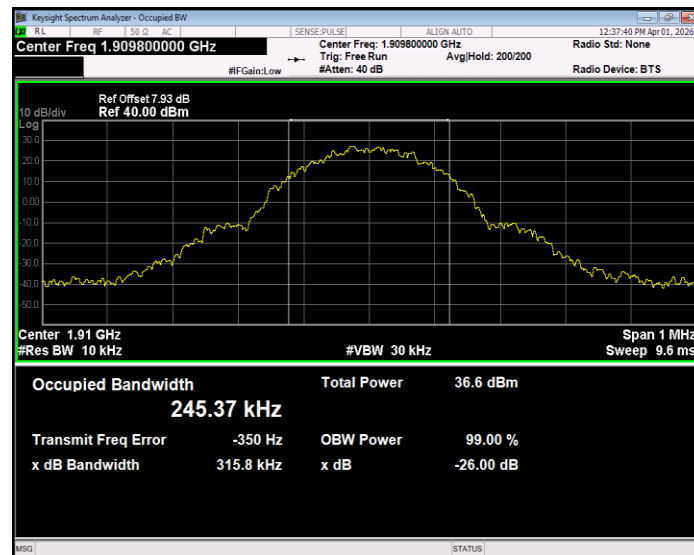


Report

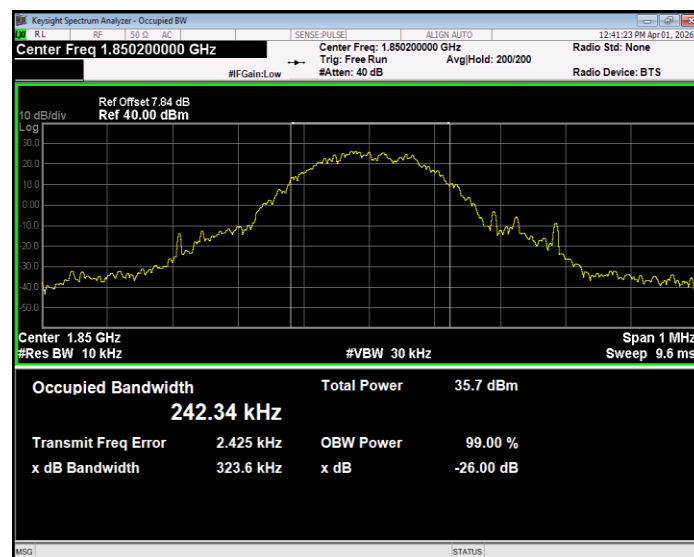
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GSM1900 Channel=810



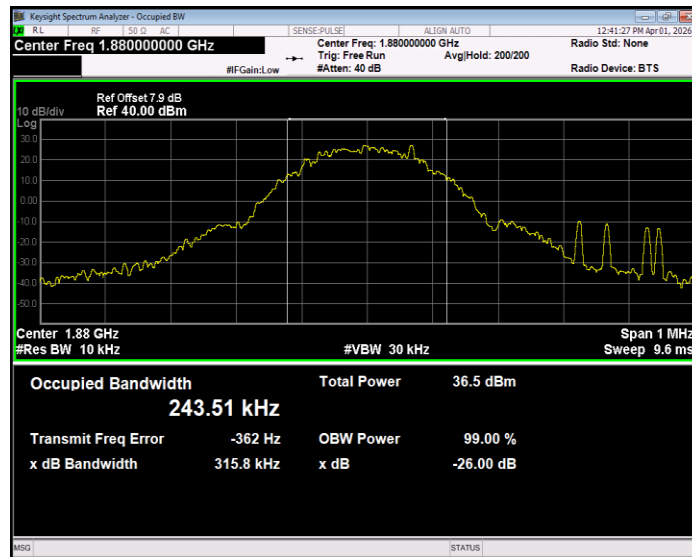
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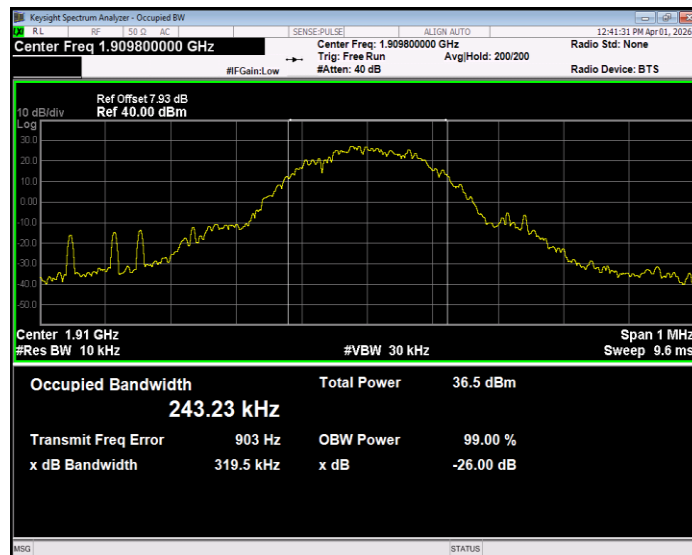


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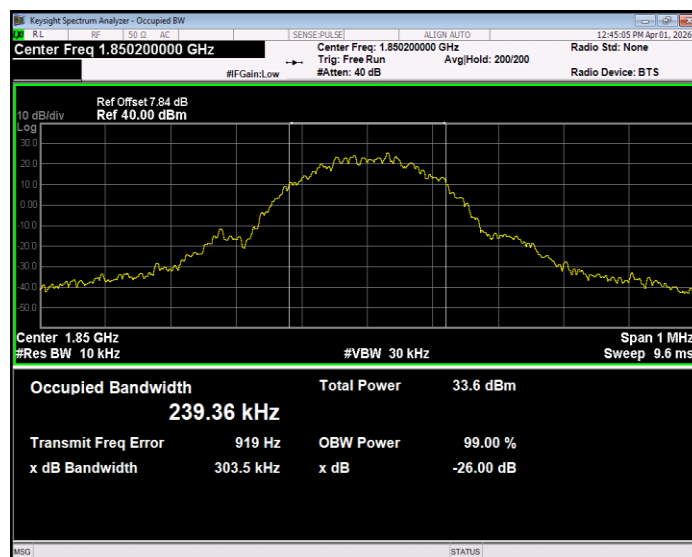
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GPRS1900 Channel=810



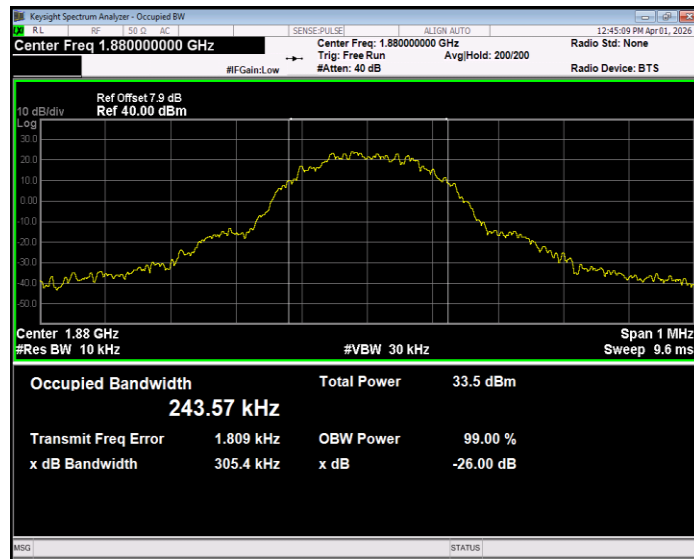
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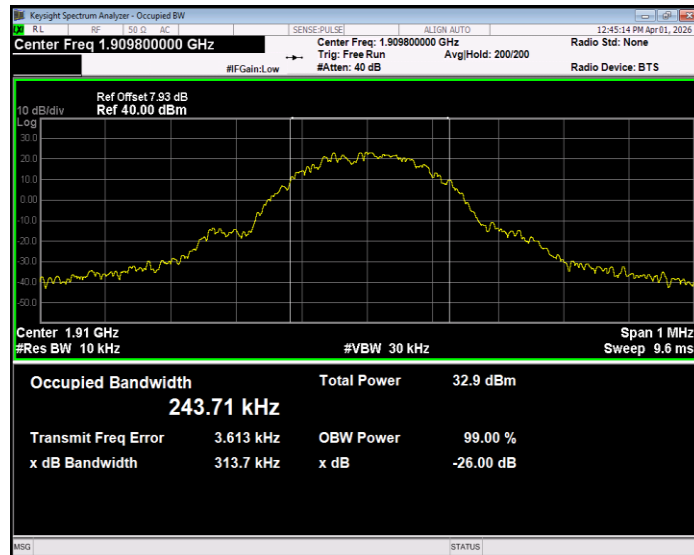


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



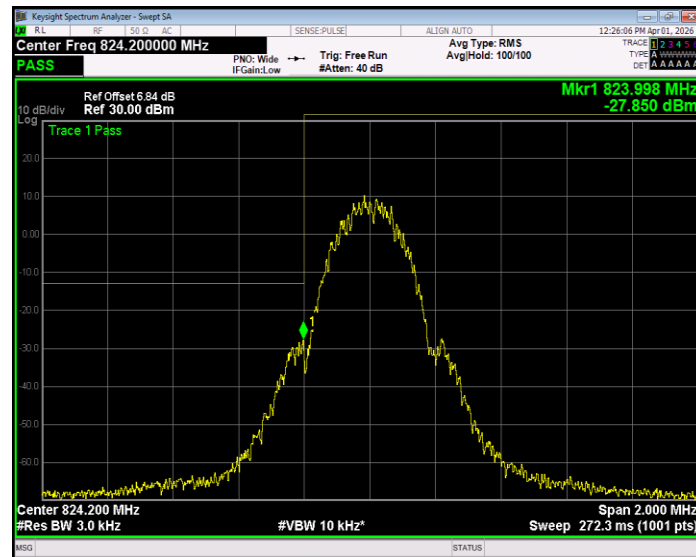


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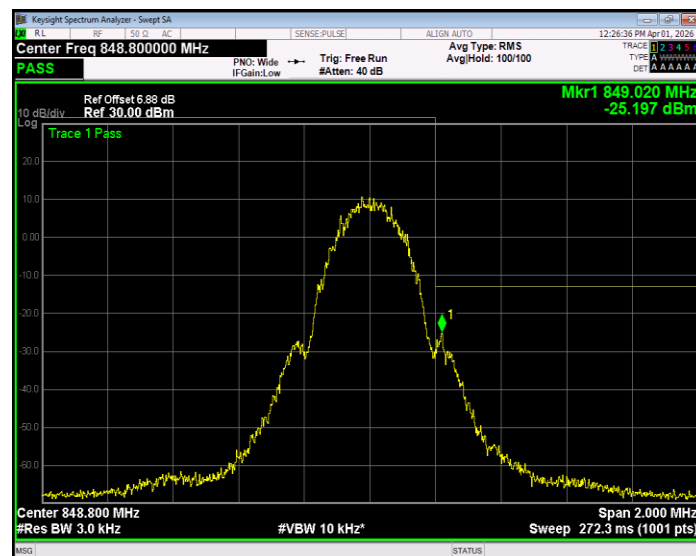
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-27.85	-13	PASS
GSM850	251	848.8	849.02	-25.19	-13	PASS
GPRS850	128	824.2	823.98	-27.75	-13	PASS
GPRS850	251	848.8	849.02	-26.45	-13	PASS
EGPRS850	128	824.2	823.99	-33.16	-13	PASS
EGPRS850	251	848.8	849.00	-32.49	-13	PASS
GSM1900	512	1850.2	1849.98	-31.64	-13	PASS
GSM1900	810	1909.8	1910.02	-29.11	-13	PASS
GPRS1900	512	1850.2	1849.98	-31.42	-13	PASS
GPRS1900	810	1909.8	1910.02	-29.99	-13	PASS
EGPRS1900	512	1850.2	1849.98	-34.15	-13	PASS
EGPRS1900	810	1909.8	1910.00	-32.38	-13	PASS

GSM850 Channel=128



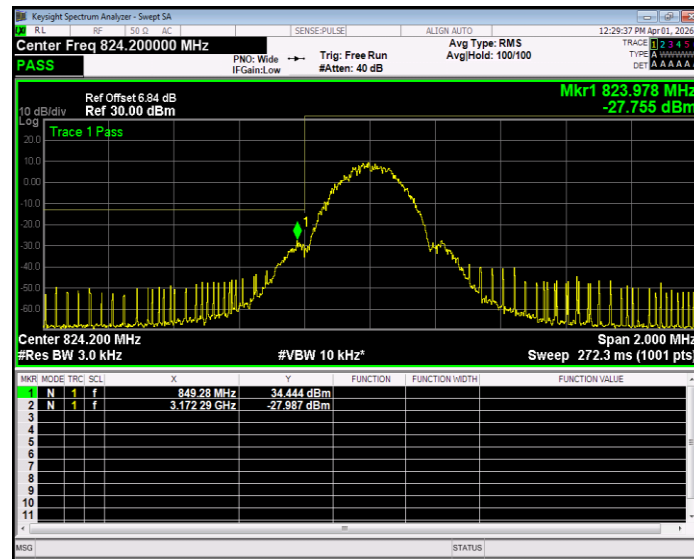
GSM850 Channel=251



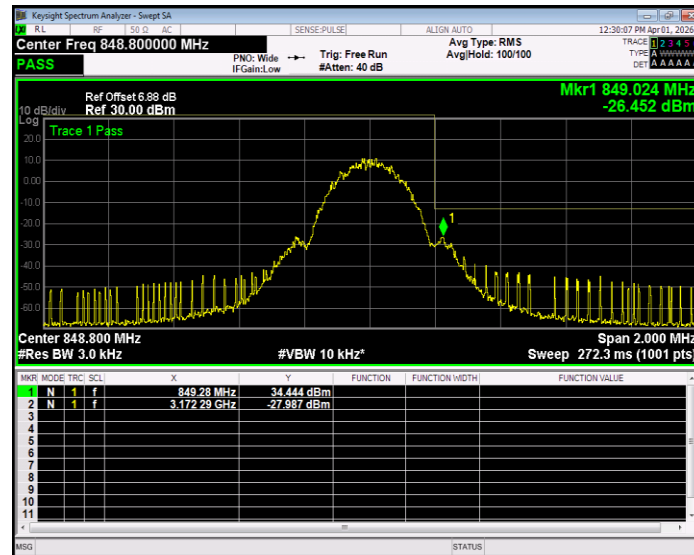


Report

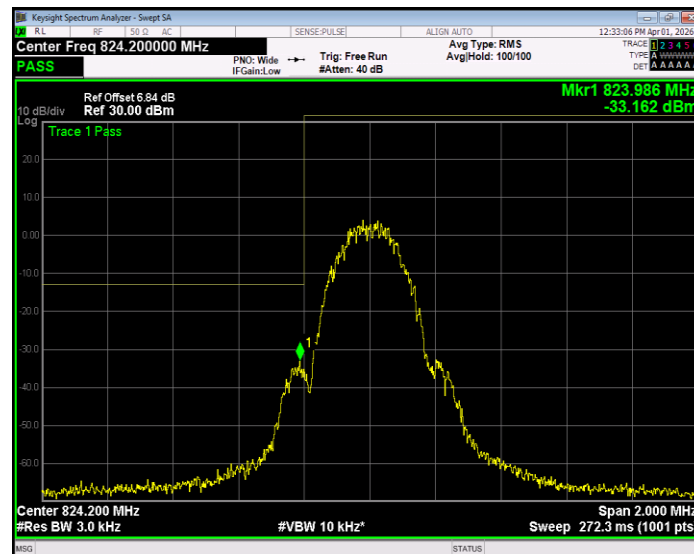
GPRS850 Channel=128



GPRS850 Channel=251



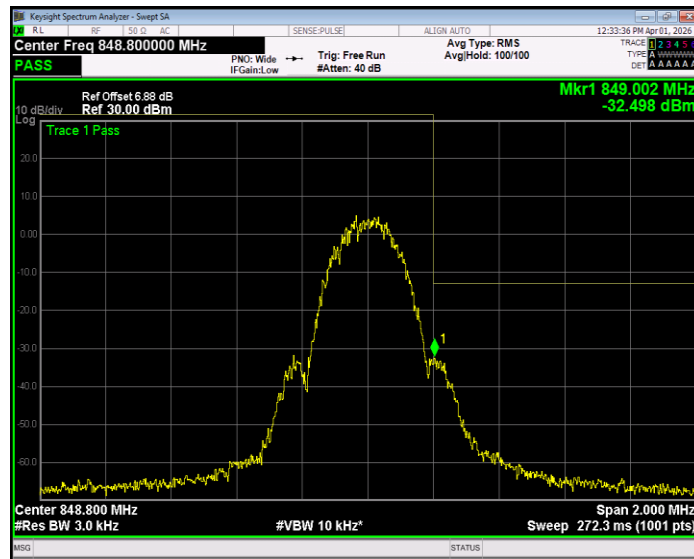
EGPRS850 Channel=128



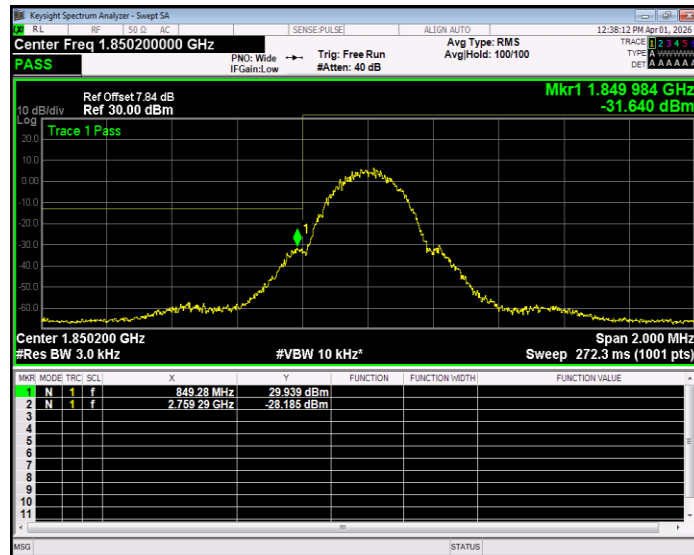


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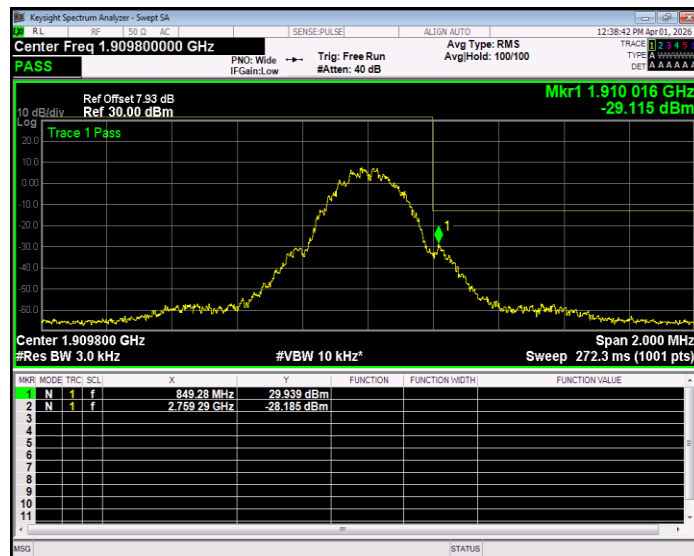
EGPRS850 Channel=251



GSM1900 Channel=512



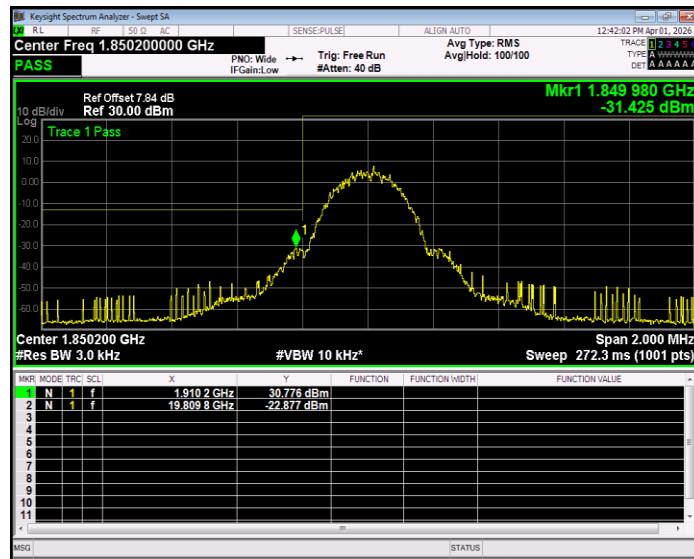
GSM1900 Channel=810



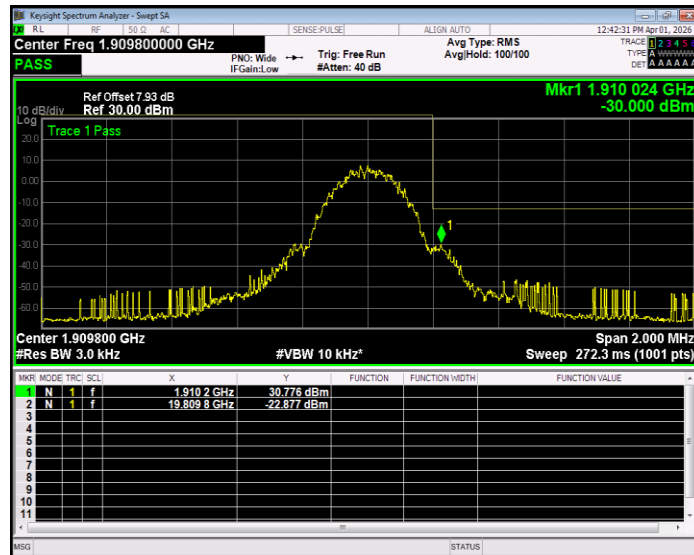


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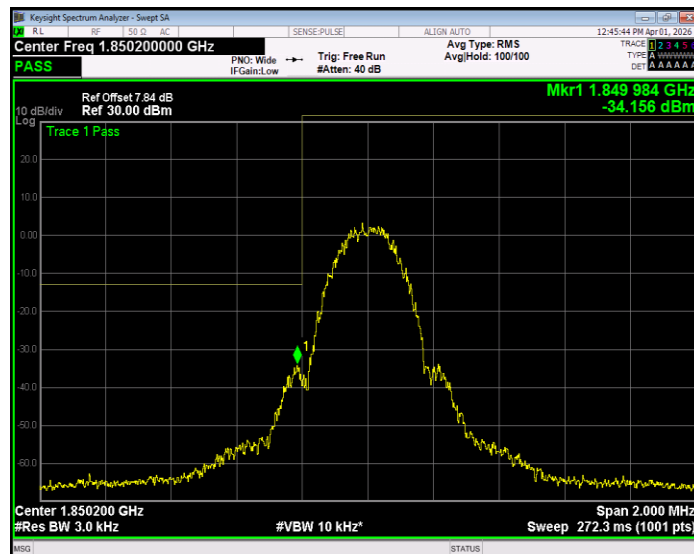
GPRS1900 Channel=512



GPRS1900 Channel=810



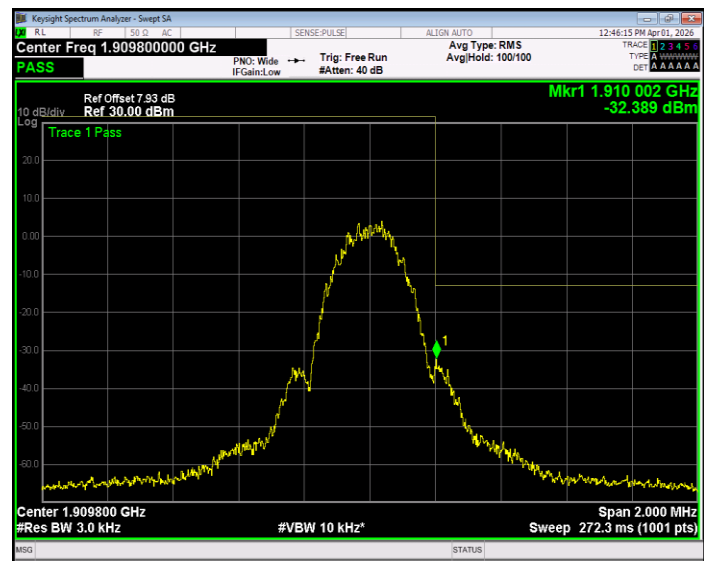
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=810



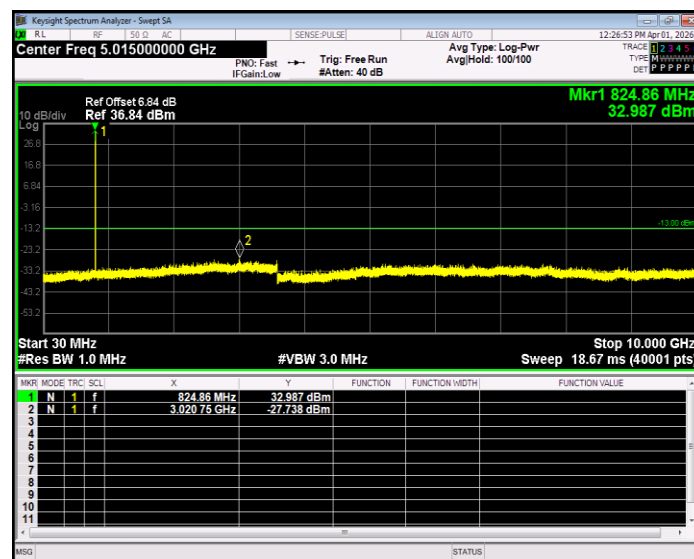


Report

Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	3020.75	-27.73	-13	PASS
GSM850	190	836.6	3137.40	-27.71	-13	PASS
GSM850	251	848.8	3172.29	-27.98	-13	PASS
GPRS850	128	824.2	2687.25	-27.60	-13	PASS
GPRS850	190	836.6	3098.52	-27.83	-13	PASS
GPRS850	251	848.8	3154.35	-27.87	-13	PASS
EGPRS850	128	824.2	2618.21	-28.13	-13	PASS
EGPRS850	190	836.6	2651.36	-27.91	-13	PASS
EGPRS850	251	848.8	2759.29	-28.18	-13	PASS
GSM1900	512	1850.2	19815.78	-22.98	-13	PASS
GSM1900	661	1880	19711.43	-22.86	-13	PASS
GSM1900	810	1909.8	19809.79	-22.87	-13	PASS
GPRS1900	512	1850.2	19021.97	-22.38	-13	PASS
GPRS1900	661	1880	19696.96	-22.89	-13	PASS
GPRS1900	810	1909.8	16481.29	-23.32	-13	PASS
EGPRS1900	512	1850.2	19432.35	-22.44	-13	PASS
EGPRS1900	661	1880	19052.92	-22.67	-13	PASS
EGPRS1900	810	1909.8	19744.38	-22.12	-13	PASS

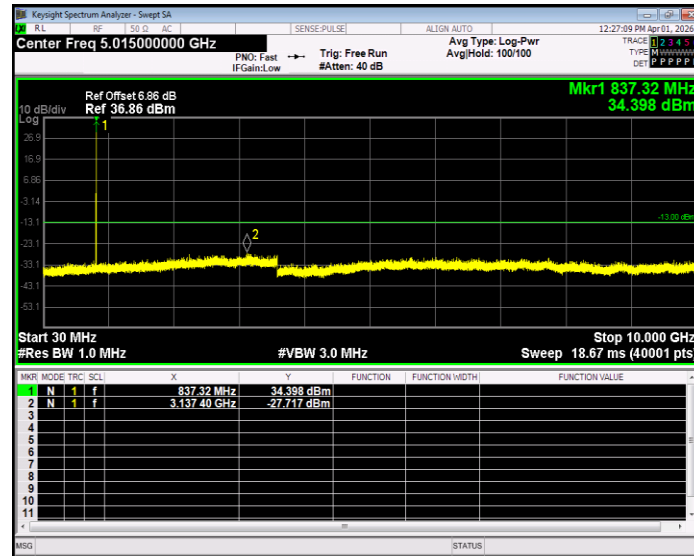
GSM850 Channel=128



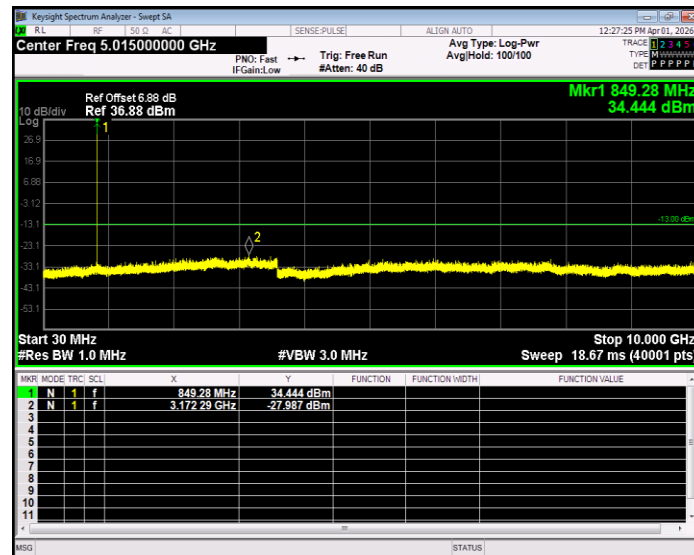
GSM850 Channel=190



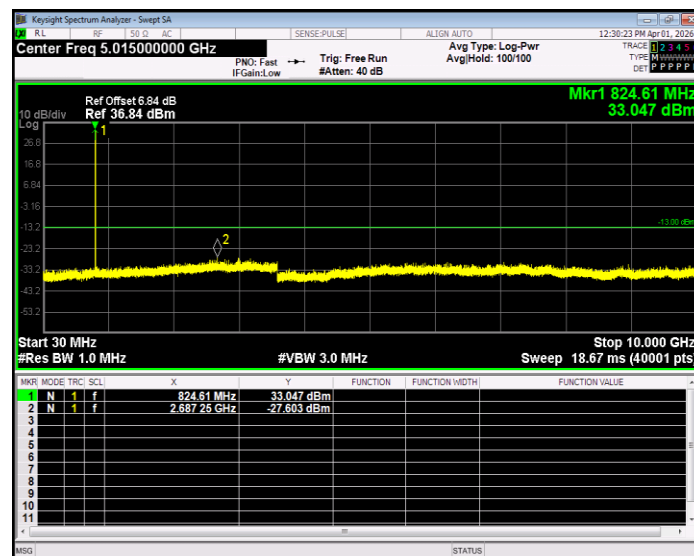
Report



GSM850 Channel=251



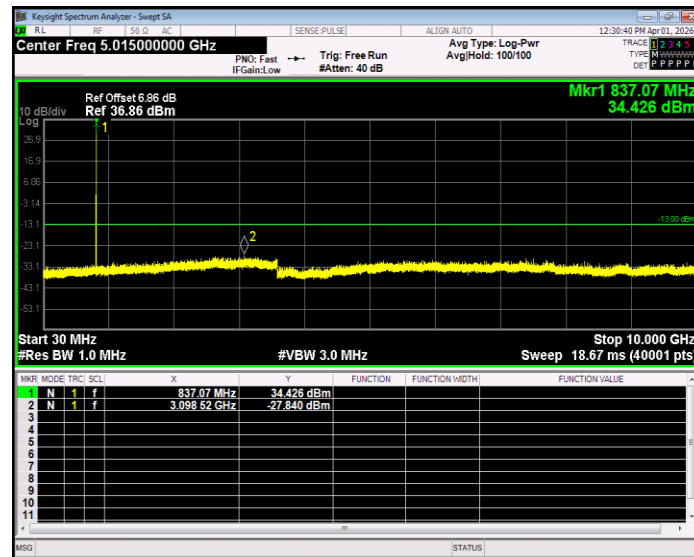
GPRS850 Channel=128



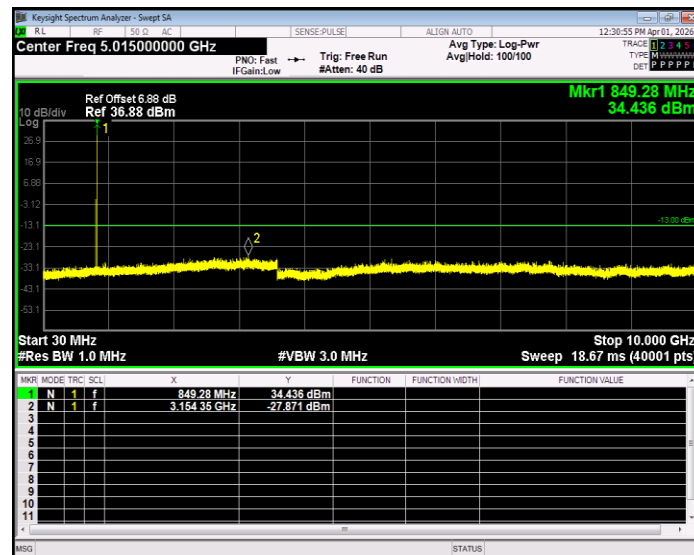


Report

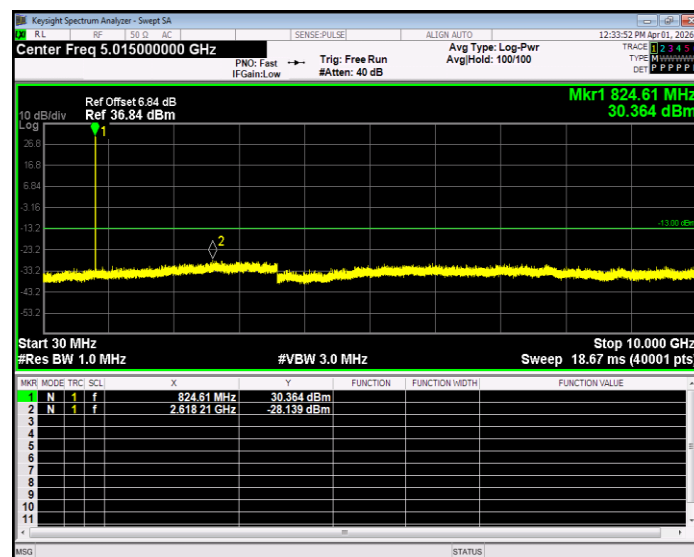
GPRS850 Channel=190



GPRS850 Channel=251



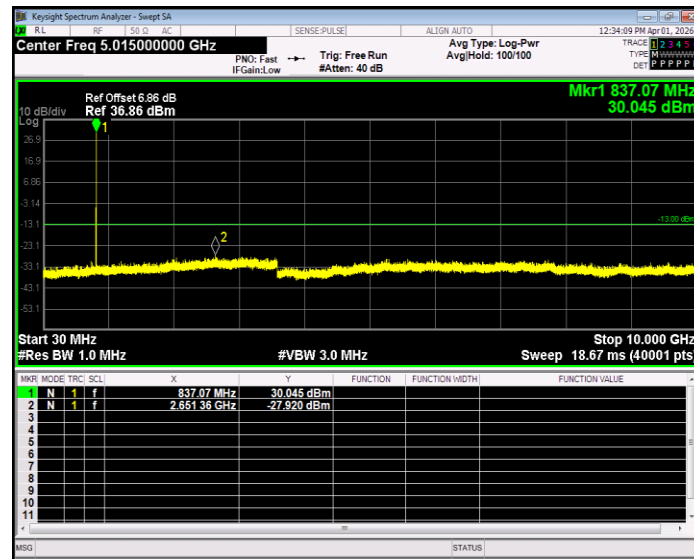
EGPRS850 Channel=128



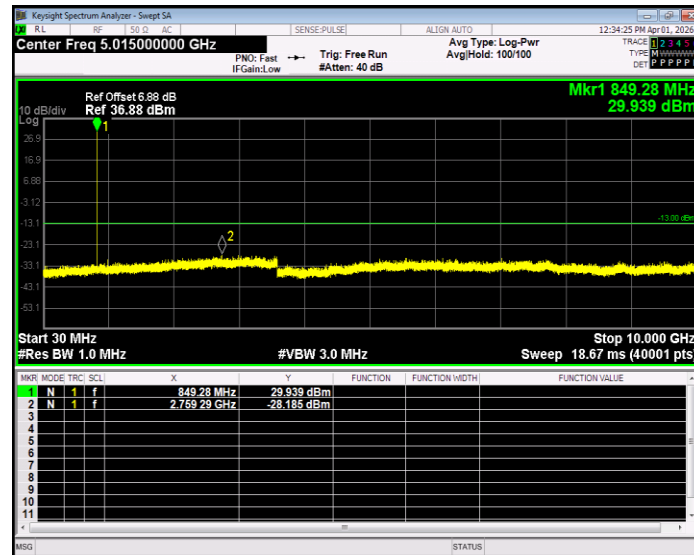


Report

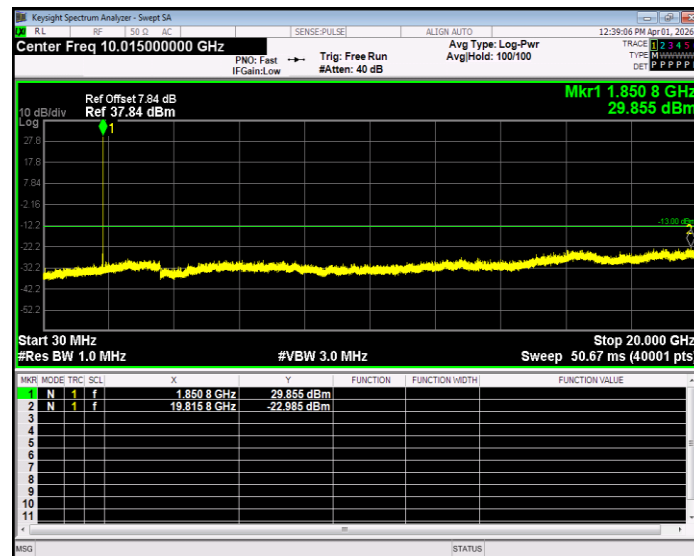
EGPRS850 Channel=190



EGPRS850 Channel=251



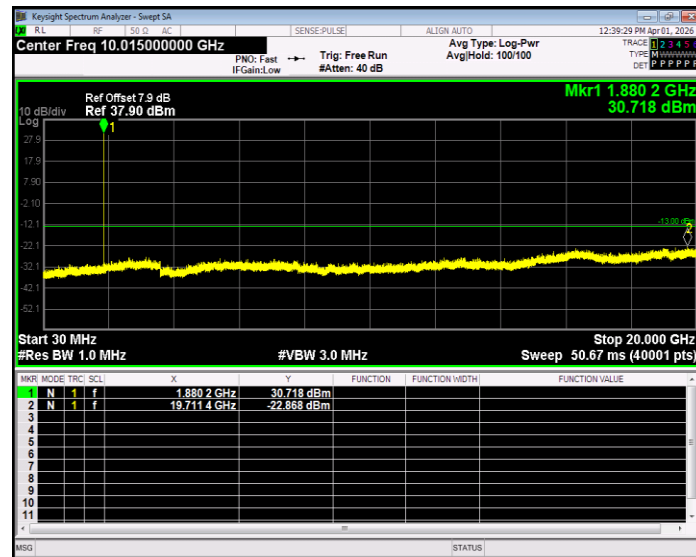
GSM1900 Channel=512



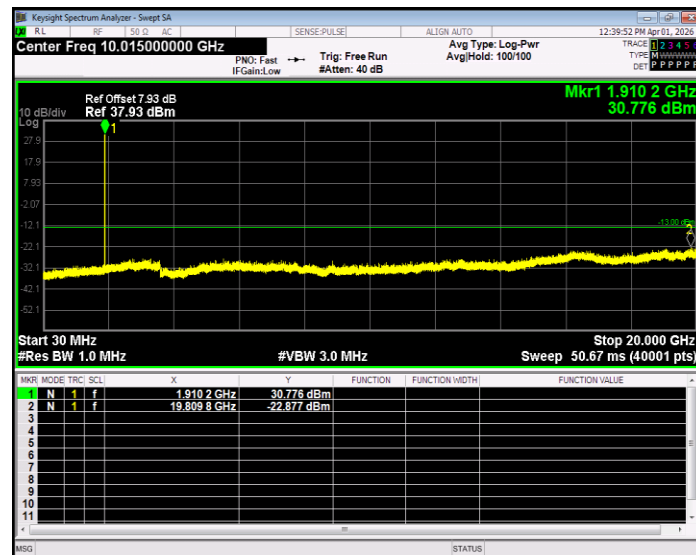


Report

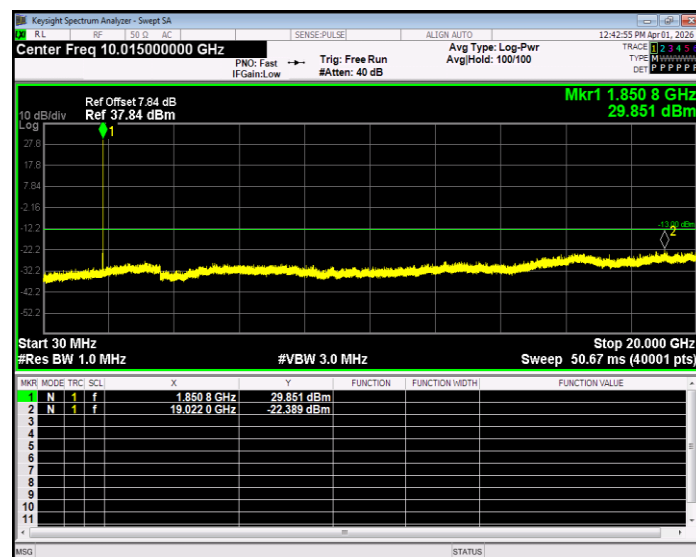
GSM1900 Channel=661



GSM1900 Channel=810



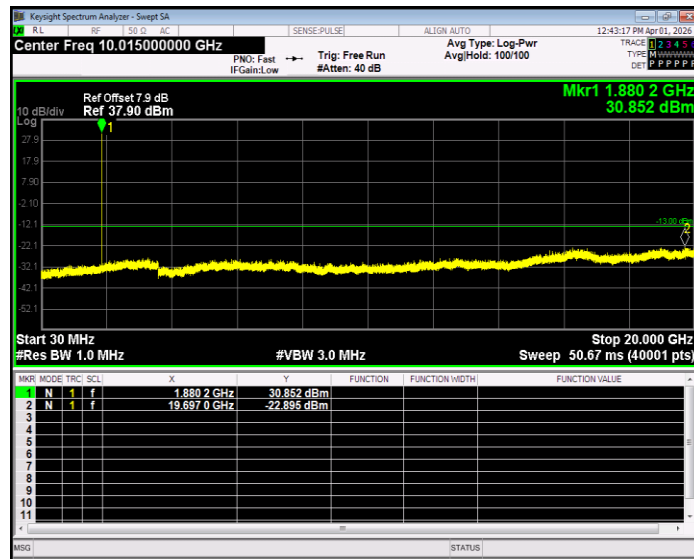
GPRS1900 Channel=512



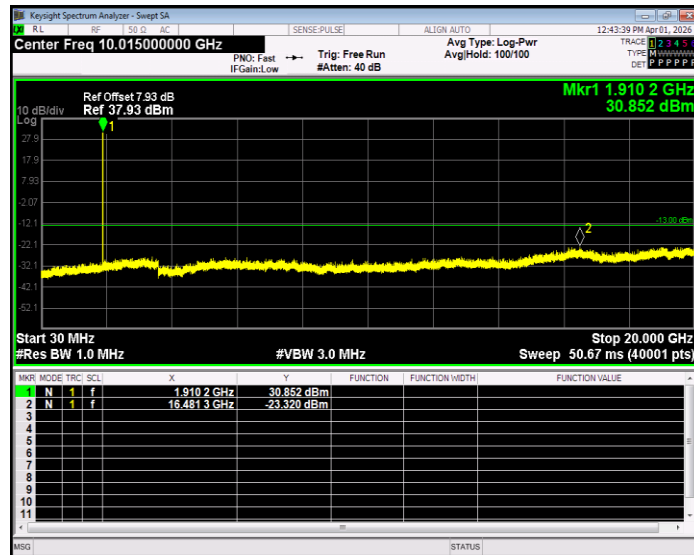


Report

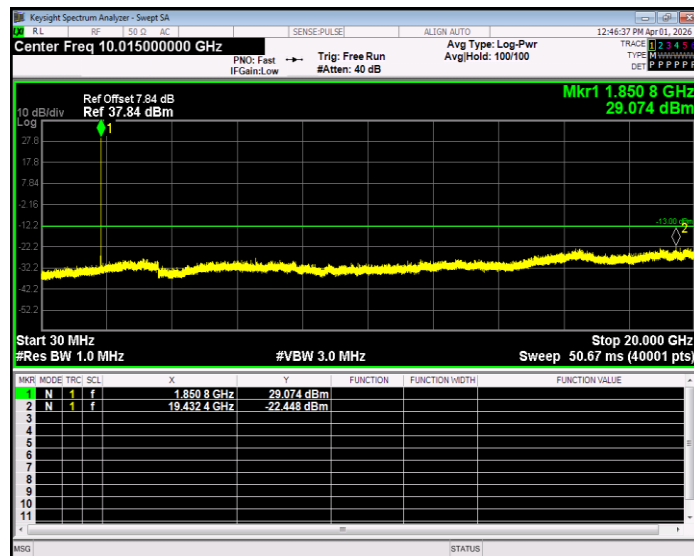
GPRS1900 Channel=661



GPRS1900 Channel=810



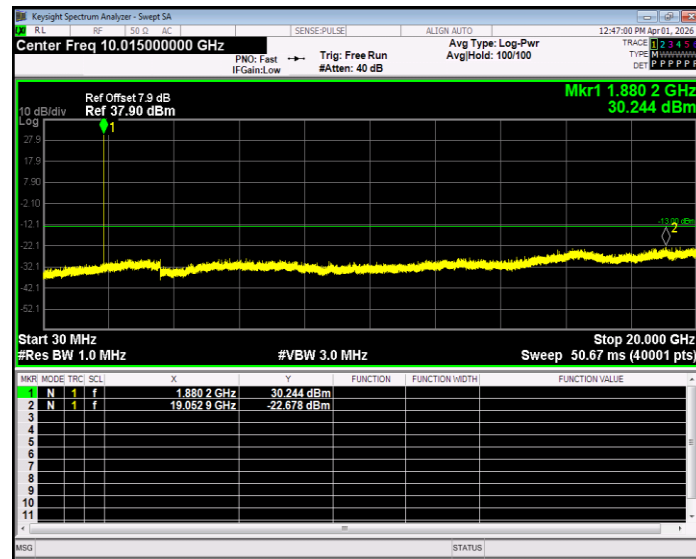
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

