



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	33.48	-2.94	28.39	38.45	PASS
GSM850	190	836.6	33.56	-2.94	28.47	38.45	PASS
GSM850	251	848.8	33.42	-2.94	28.33	38.45	PASS
GPRS850 1 Slot	128	824.2	33.48	-2.94	28.39	38.45	PASS
GPRS850 1 Slot	190	836.6	33.56	-2.94	28.47	38.45	PASS
GPRS850 1 Slot	251	848.8	33.43	-2.94	28.34	38.45	PASS
GPRS850 2 Slot	128	824.2	31.54	-2.94	26.45	38.45	PASS
GPRS850 2 Slot	190	836.6	31.58	-2.94	26.49	38.45	PASS
GPRS850 2 Slot	251	848.8	31.30	-2.94	26.21	38.45	PASS
GPRS850 3 Slot	128	824.2	29.25	-2.94	24.16	38.45	PASS
GPRS850 3 Slot	190	836.6	29.34	-2.94	24.25	38.45	PASS
GPRS850 3 Slot	251	848.8	29.03	-2.94	23.94	38.45	PASS
GPRS850 4 Slot	128	824.2	27.15	-2.94	22.06	38.45	PASS
GPRS850 4 Slot	190	836.6	27.33	-2.94	22.24	38.45	PASS
GPRS850 4 Slot	251	848.8	26.95	-2.94	21.86	38.45	PASS
EGPRS850 1 Slot	128	824.2	27.20	-2.94	22.11	38.45	PASS
EGPRS850 1 Slot	190	836.6	27.33	-2.94	22.24	38.45	PASS
EGPRS850 1 Slot	251	848.8	27.38	-2.94	22.29	38.45	PASS
EGPRS850 2 Slot	128	824.2	25.40	-2.94	20.31	38.45	PASS
EGPRS850 2 Slot	190	836.6	25.52	-2.94	20.43	38.45	PASS
EGPRS850 2 Slot	251	848.8	24.99	-2.94	19.90	38.45	PASS
EGPRS850 3 Slot	128	824.2	23.21	-2.94	18.12	38.45	PASS
EGPRS850 3 Slot	190	836.6	22.81	-2.94	17.72	38.45	PASS
EGPRS850 3 Slot	251	848.8	22.79	-2.94	17.70	38.45	PASS
EGPRS850 4 Slot	128	824.2	21.10	-2.94	16.01	38.45	PASS
EGPRS850 4 Slot	190	836.6	20.94	-2.94	15.85	38.45	PASS
EGPRS850 4 Slot	251	848.8	21.00	-2.94	15.91	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	30.10	-1.12	28.98	33.01	PASS
GSM1900	661	1880	30.36	-1.12	29.24	33.01	PASS
GSM1900	810	1909.8	30.48	-1.12	29.36	33.01	PASS
GPRS1900 1 Slot	512	1850.2	30.08	-1.12	28.96	33.01	PASS
GPRS1900 1 Slot	661	1880	30.39	-1.12	29.27	33.01	PASS
GPRS1900 1 Slot	810	1909.8	30.51	-1.12	29.39	33.01	PASS
GPRS1900 2 Slot	512	1850.2	28.34	-1.12	27.22	33.01	PASS
GPRS1900 2 Slot	661	1880	28.31	-1.12	27.19	33.01	PASS
GPRS1900 2 Slot	810	1909.8	28.37	-1.12	27.25	33.01	PASS
GPRS1900 3 Slot	512	1850.2	26.17	-1.12	25.05	33.01	PASS
GPRS1900 3 Slot	661	1880	26.16	-1.12	25.04	33.01	PASS
GPRS1900 3 Slot	810	1909.8	26.16	-1.12	25.04	33.01	PASS
GPRS1900 4 Slot	512	1850.2	24.06	-1.12	22.94	33.01	PASS
GPRS1900 4 Slot	661	1880	23.98	-1.12	22.86	33.01	PASS
GPRS1900 4 Slot	810	1909.8	24.08	-1.12	22.96	33.01	PASS
EGPRS1900 1 Slot	512	1850.2	27.05	-1.12	25.93	33.01	PASS
EGPRS1900 1 Slot	661	1880	26.62	-1.12	25.50	33.01	PASS
EGPRS1900 1 Slot	810	1909.8	27.10	-1.12	25.98	33.01	PASS
EGPRS1900 2 Slot	512	1850.2	25.28	-1.12	24.16	33.01	PASS
EGPRS1900 2 Slot	661	1880	25.40	-1.12	24.28	33.01	PASS
EGPRS1900 2 Slot	810	1909.8	25.38	-1.12	24.26	33.01	PASS
EGPRS1900 3 Slot	512	1850.2	23.11	-1.12	21.99	33.01	PASS
EGPRS1900 3 Slot	661	1880	23.23	-1.12	22.11	33.01	PASS
EGPRS1900 3 Slot	810	1909.8	23.29	-1.12	22.17	33.01	PASS
EGPRS1900 4 Slot	512	1850.2	21.39	-1.12	20.27	33.01	PASS
EGPRS1900 4 Slot	661	1880	21.23	-1.12	20.11	33.01	PASS
EGPRS1900 4 Slot	810	1909.8	21.42	-1.12	20.30	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	3.73	0.004	2.5ppm	PASS
40		-3.42	-0.004		
30		3.43	0.004		
20		5.26	0.006		
10		-3.73	-0.004		
0		3.16	0.004		
-10		3.30	0.004		
-20		3.58	0.004		
-30		3.28	0.004		
20	Maximum Voltage	3.25	0.004	2.5ppm	PASS
20	BEP	3.24	0.004		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	6.19	0.007	2.5ppm	PASS
40		-6.41	-0.008		
30		6.17	0.007		
20		10.62	0.013		
10		-6.04	-0.007		
0		-6.34	-0.008		
-10		-5.85	-0.007		
-20		-6.03	-0.007		
-30		-6.42	-0.008		
20	Maximum Voltage	-6.06	-0.007	2.5ppm	PASS
20	BEP	-6.21	-0.007		



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EGPRS 850 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-3.47	-0.004	2.5ppm	PASS
40		3.06	0.004		
30		2.99	0.004		
20		4.88	0.006		
10		3.17	0.004		
0		3.07	0.004		
-10		3.10	0.004		
-20		-3.53	-0.004		
-30		3.41	0.004		
20	Maximum Voltage	-3.45	-0.004		
20	BEP	-3.23	-0.004		

GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	3.11	0.002	Within Authorized Band	PASS
40		-3.09	-0.002		
30		3.16	0.002		
20		4.88	0.003		
10		2.99	0.002		
0		-3.43	-0.002		
-10		-3.52	-0.002		
-20		-3.44	-0.002		
-30		-3.05	-0.002		
20	Maximum Voltage	3.39	0.002		
20	BEP	3.15	0.002		



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GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-3.22	-0.002	Within Authorized Band	PASS
40		-3.36	-0.002		
30		-3.38	-0.002		
20		4.88	0.003		
10		3.04	0.002		
0		-2.99	-0.002		
-10		3.39	0.002		
-20		3.23	0.002		
-30		3.18	0.002		
20	Maximum Voltage	-3.35	-0.002		
20	BEP	3.21	0.002		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	6.52	0.003	Within Authorized Band	PASS
40		-6.76	-0.004		
30		6.74	0.004		
20		11.30	0.006		
10		6.46	0.003		
0		-6.33	-0.003		
-10		-6.47	-0.003		
-20		6.40	0.003		
-30		-6.75	-0.004		
20	Maximum Voltage	6.19	0.003		
20	BEP	-6.59	-0.004		

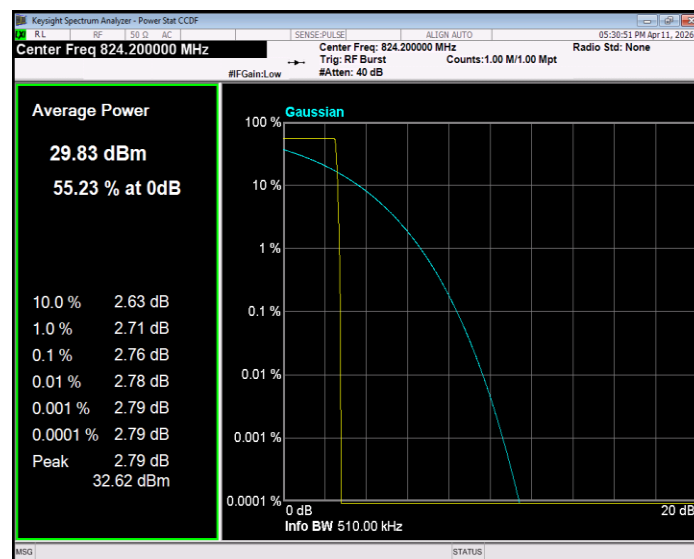


Report

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	2.70	13	PASS
GSM850	251	848.8	2.77	13	PASS
GPRS850	128	824.2	2.78	13	PASS
GPRS850	190	836.6	2.73	13	PASS
GPRS850	251	848.8	2.79	13	PASS
EGPRS850	128	824.2	8.17	13	PASS
EGPRS850	190	836.6	8.65	13	PASS
EGPRS850	251	848.8	8.42	13	PASS
GSM1900	512	1850.2	2.82	13	PASS
GSM1900	661	1880	2.80	13	PASS
GSM1900	810	1909.8	2.81	13	PASS
GPRS1900	512	1850.2	2.85	13	PASS
GPRS1900	661	1880	2.84	13	PASS
GPRS1900	810	1909.8	2.84	13	PASS
EGPRS1900	512	1850.2	5.51	13	PASS
EGPRS1900	661	1880	6.06	13	PASS
EGPRS1900	810	1909.8	6.11	13	PASS

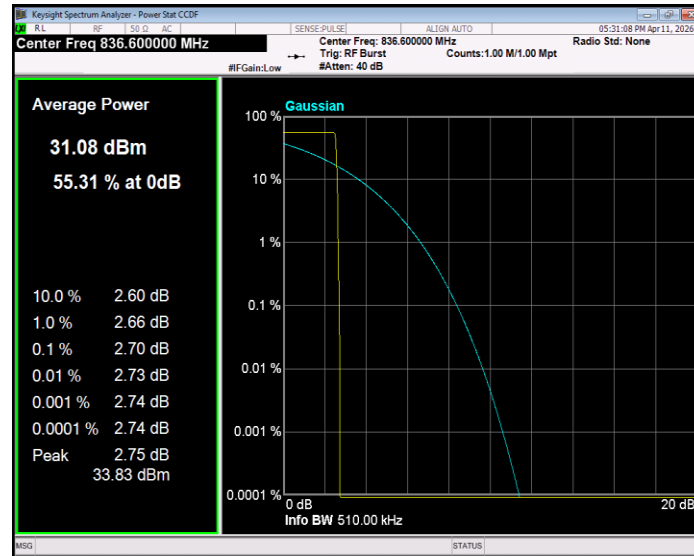
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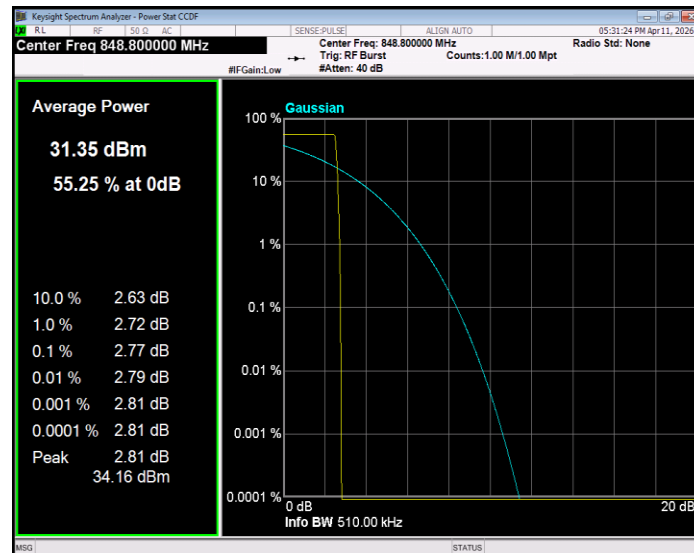
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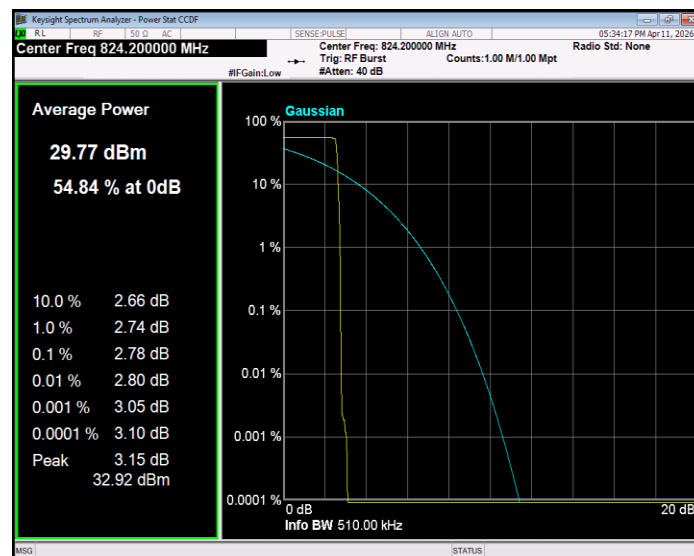
Report



GSM850 Channel=251



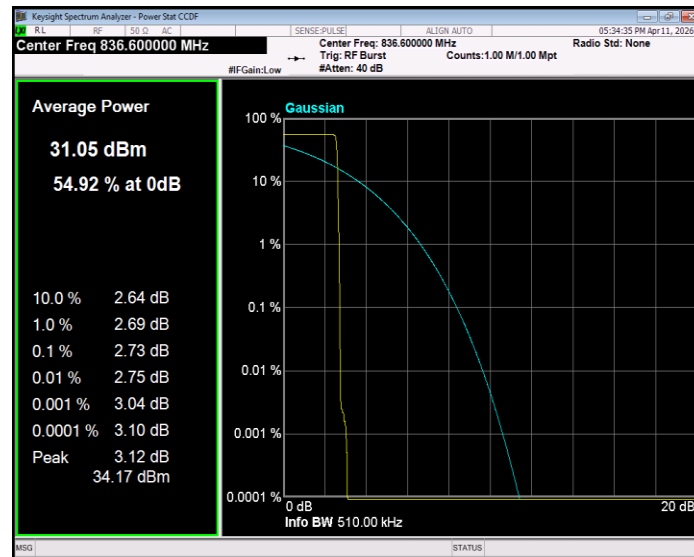
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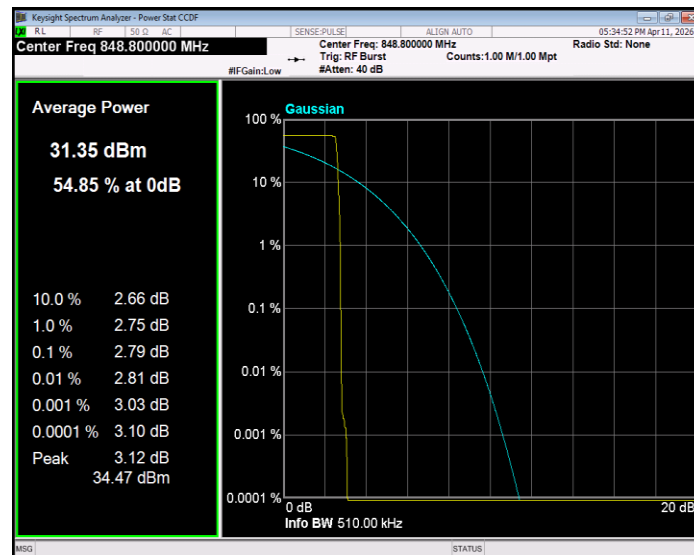


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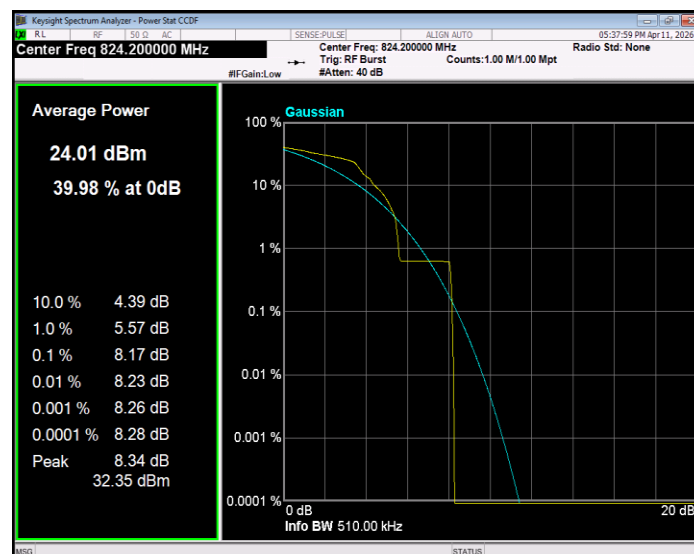
GPRS850 Channel=190



GPRS850 Channel=251



EGPRS850 Channel=128



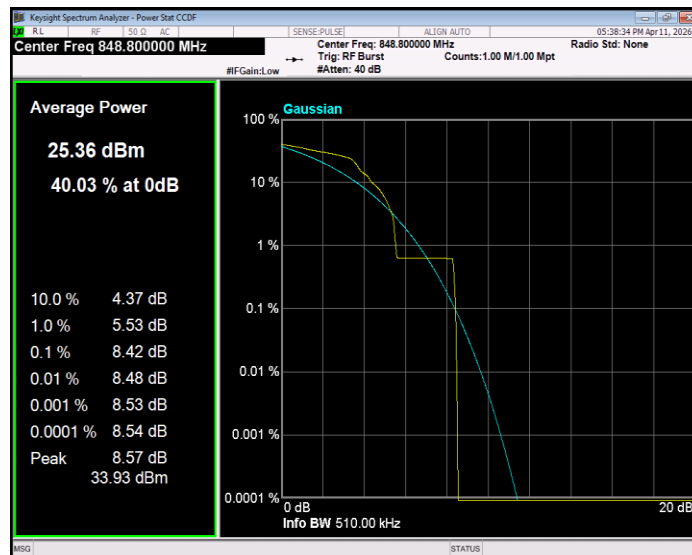


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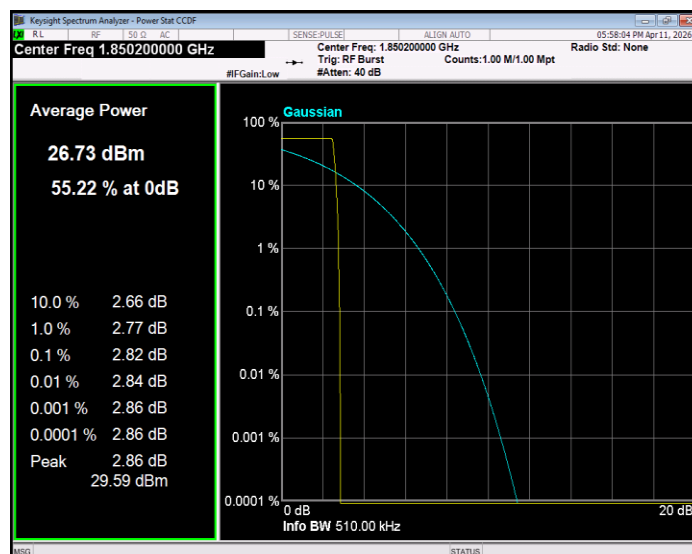
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EGPRS850 Channel=251



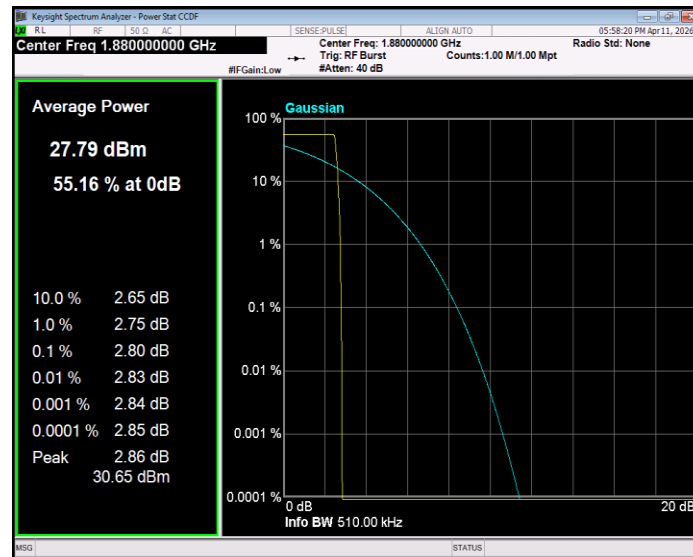
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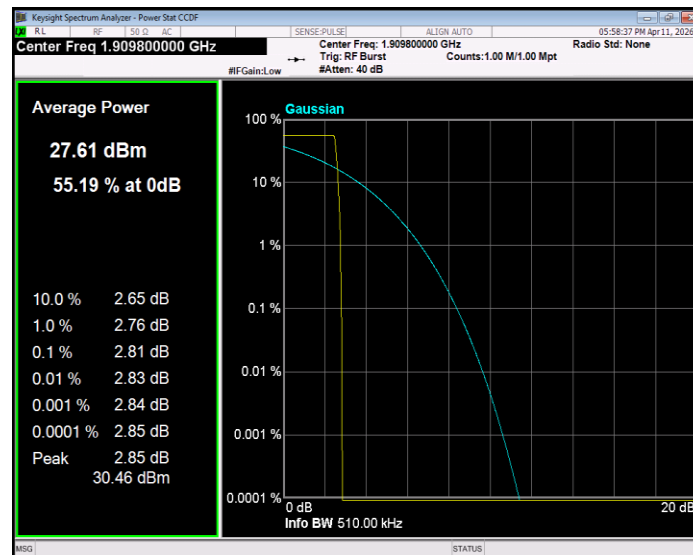


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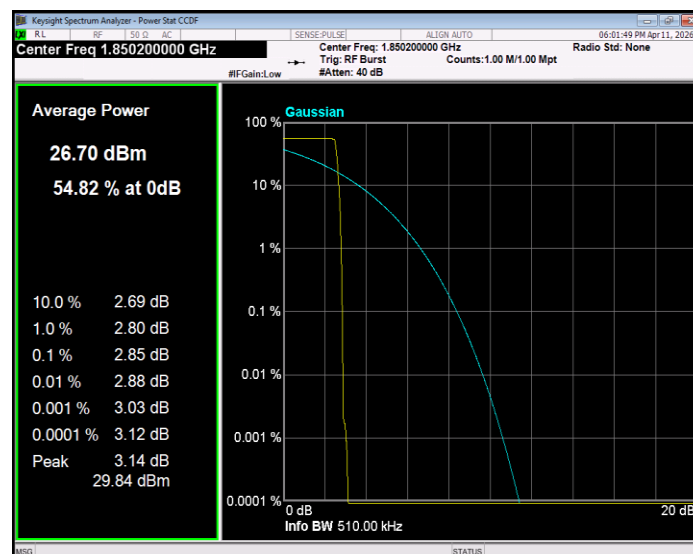
GSM1900 Channel=661



GSM1900 Channel=810



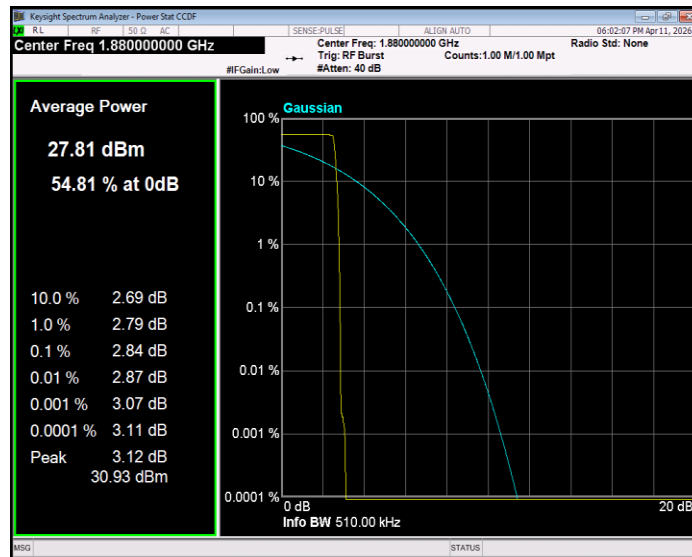
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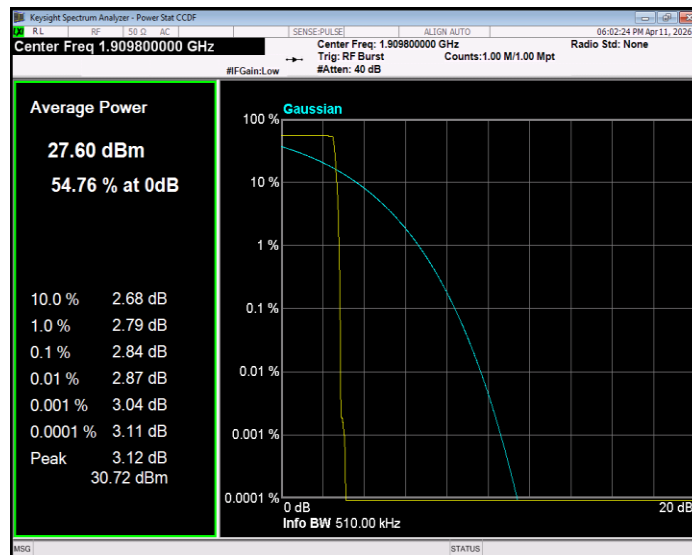


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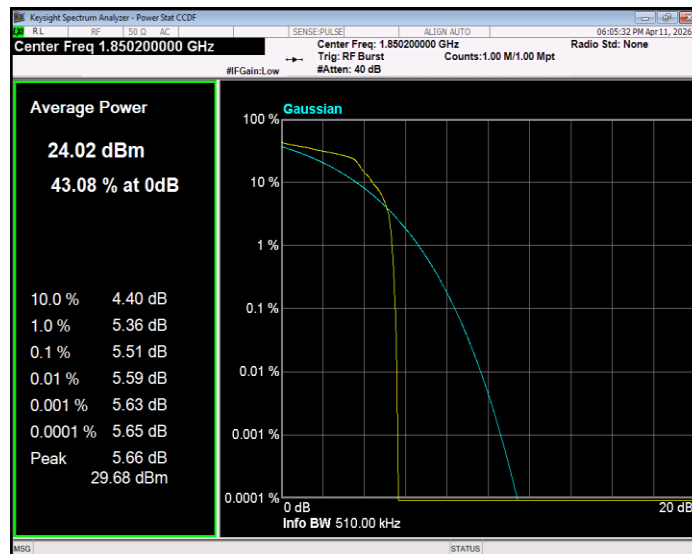
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GPRS1900 Channel=810



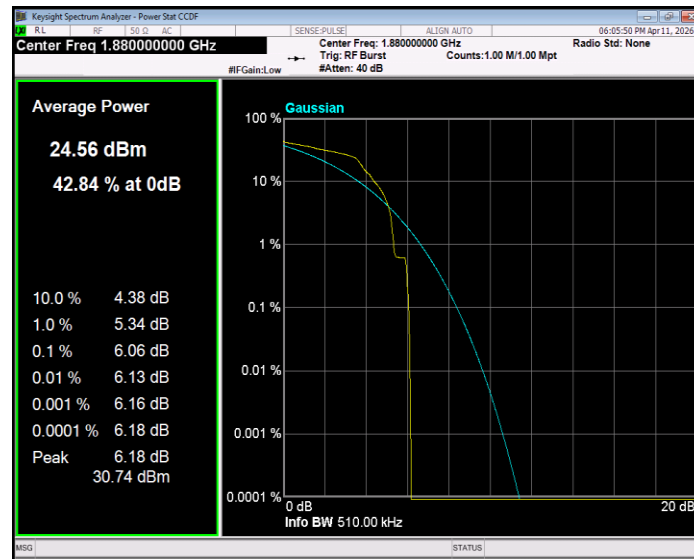
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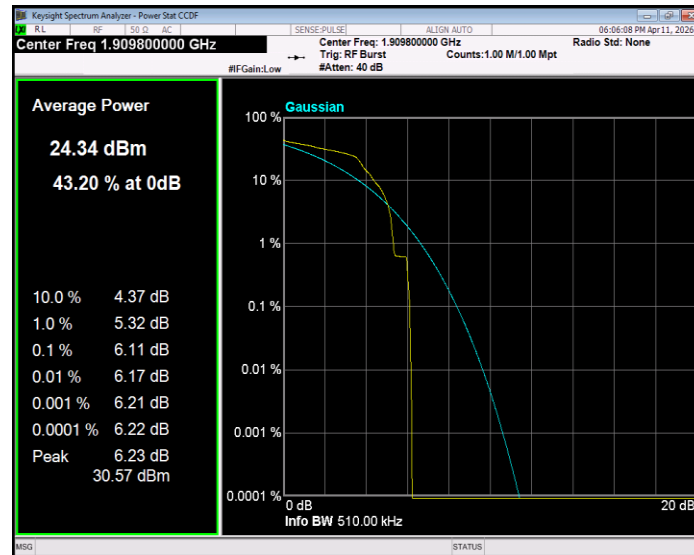


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810



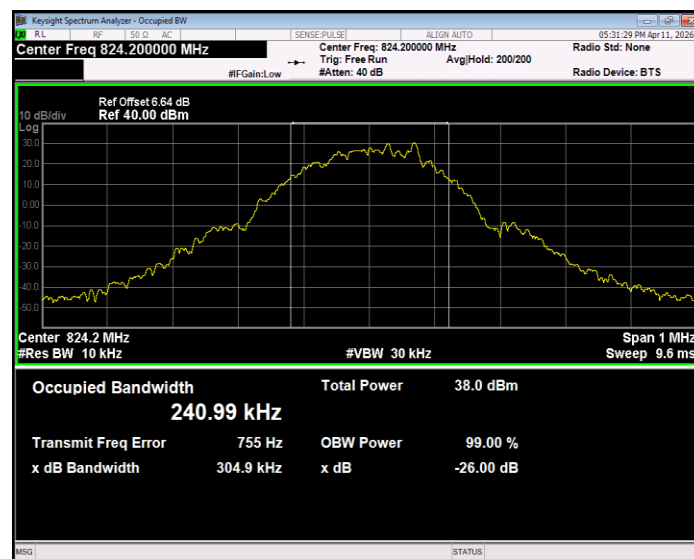


Report

Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	240.991	304.894	PASS
GSM850	190	836.6	240.454	304.388	PASS
GSM850	251	848.8	240.036	300.375	PASS
GPRS850	128	824.2	241.349	317.949	PASS
GPRS850	190	836.6	242.842	310.242	PASS
GPRS850	251	848.8	246.906	320.134	PASS
EGPRS850	128	824.2	250.620	309.389	PASS
EGPRS850	190	836.6	238.014	311.991	PASS
EGPRS850	251	848.8	252.004	318.158	PASS
GSM1900	512	1850.2	243.918	309.098	PASS
GSM1900	661	1880	241.056	306.044	PASS
GSM1900	810	1909.8	238.292	301.403	PASS
GPRS1900	512	1850.2	240.311	308.514	PASS
GPRS1900	661	1880	252.382	319.488	PASS
GPRS1900	810	1909.8	251.894	318.572	PASS
EGPRS1900	512	1850.2	247.998	306.825	PASS
EGPRS1900	661	1880	247.435	307.164	PASS
EGPRS1900	810	1909.8	246.853	307.527	PASS

GSM850 Channel=128



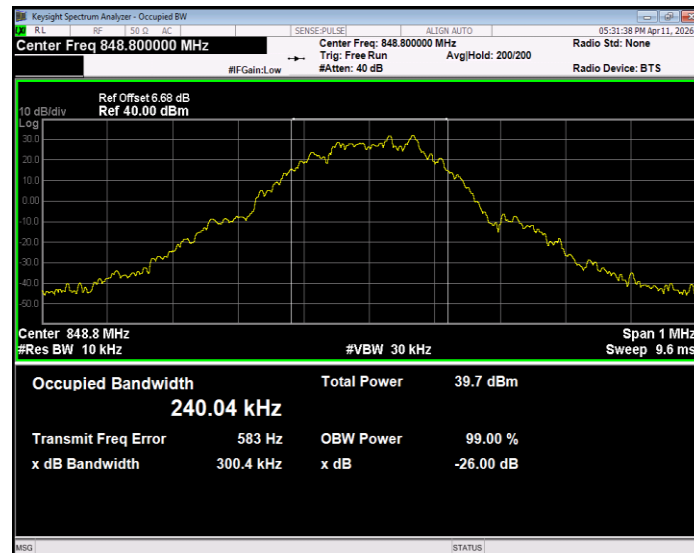
GSM850 Channel=190



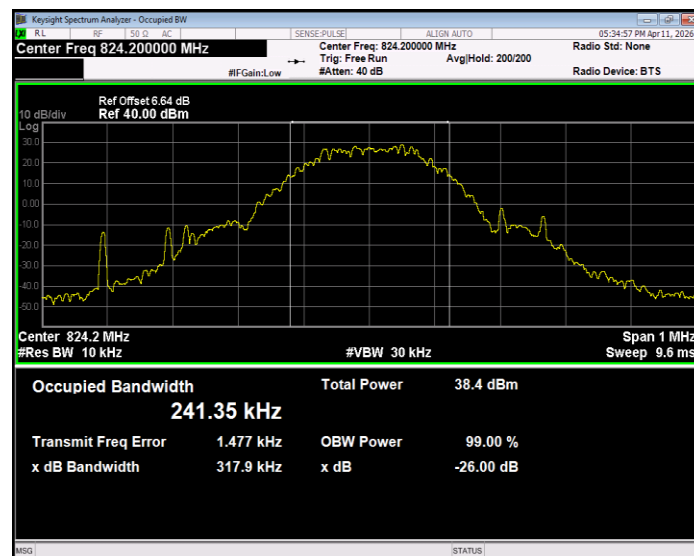
Report



GSM850 Channel=251



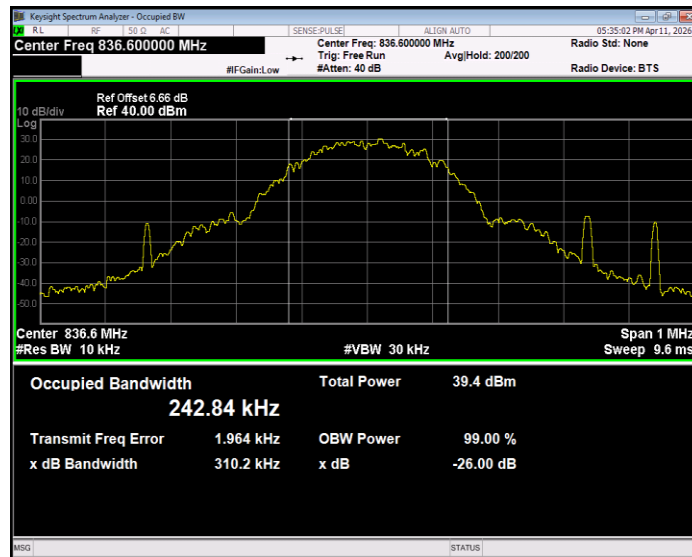
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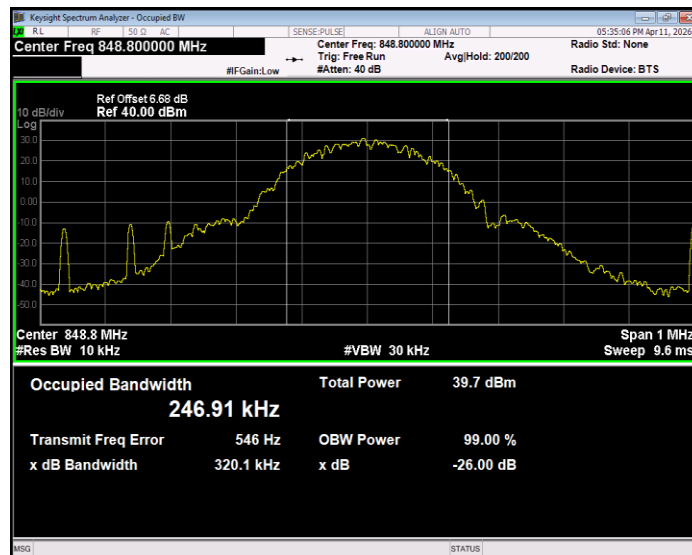


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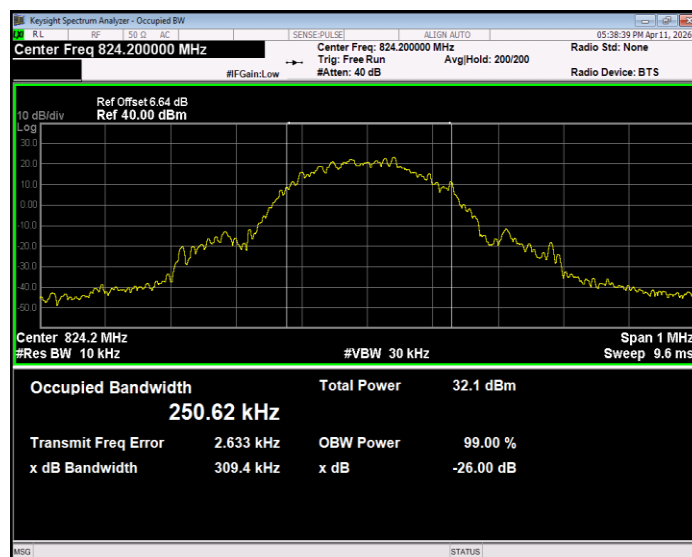
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GPRS850 Channel=251



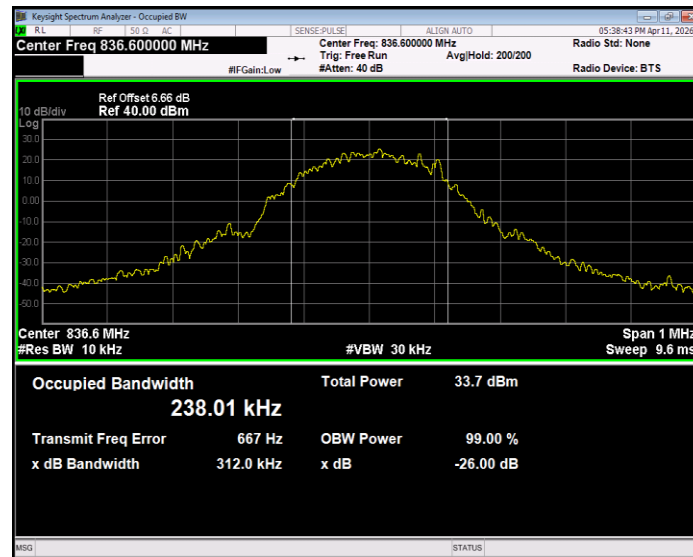
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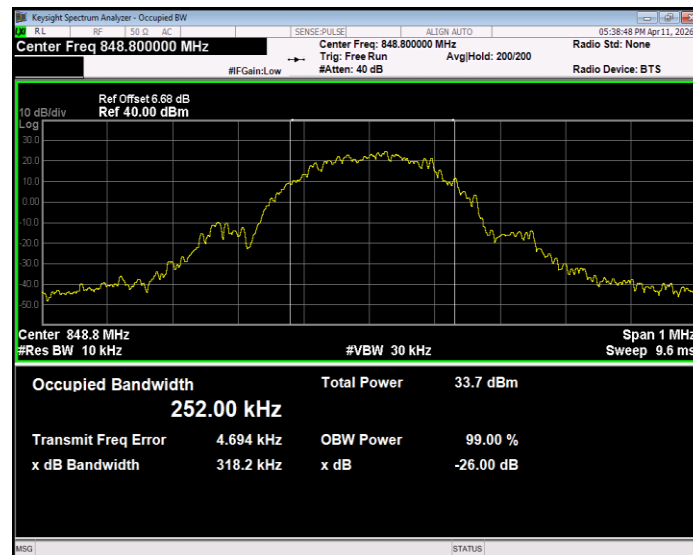


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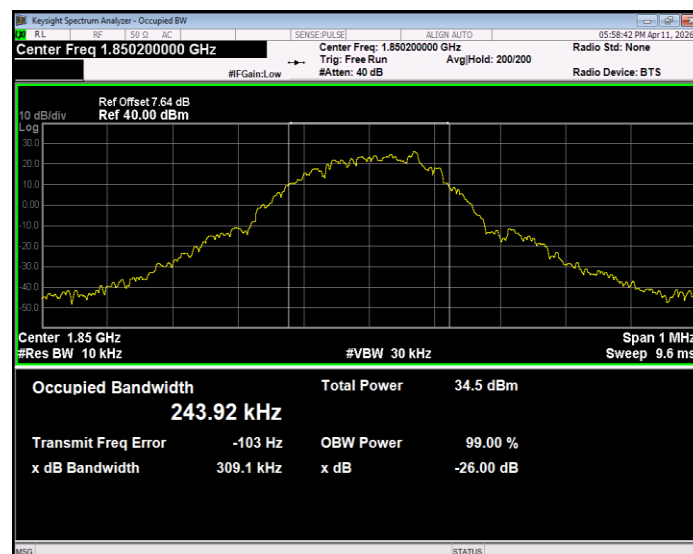
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EGPRS850 Channel=251



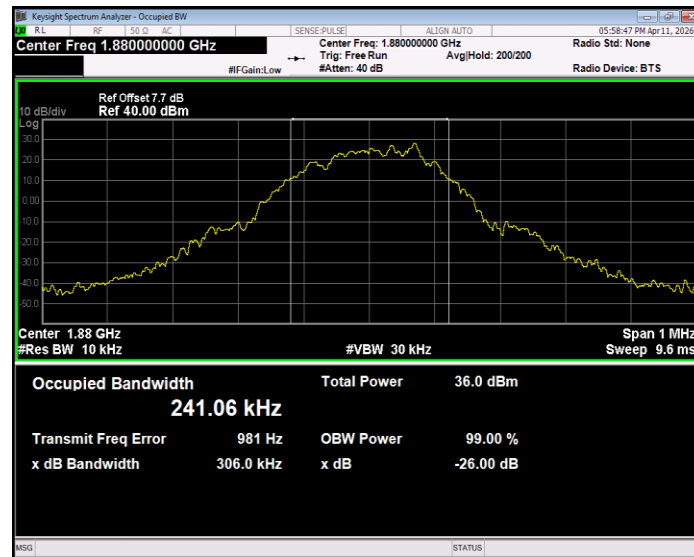
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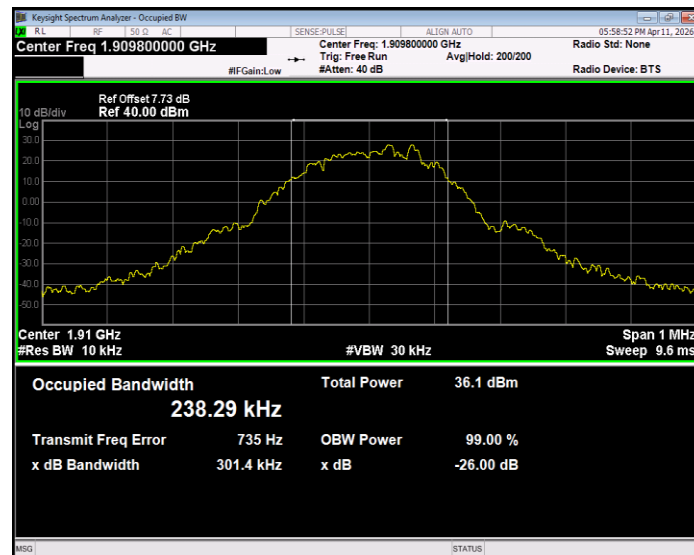


Report

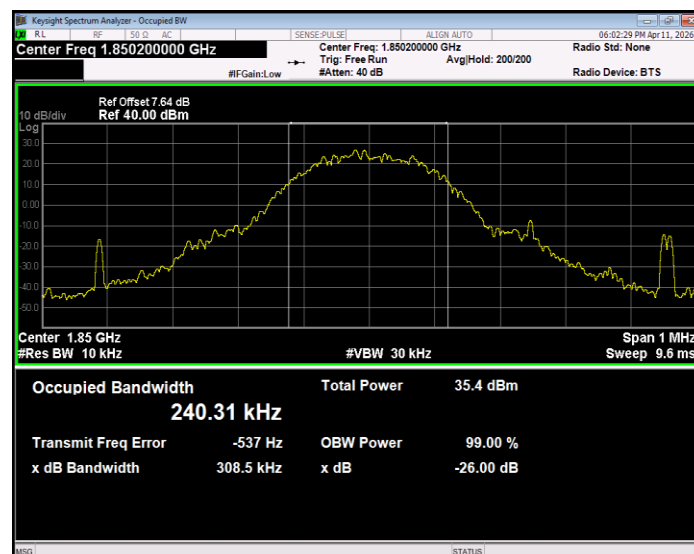
GSM1900 Channel=661



GSM1900 Channel=810



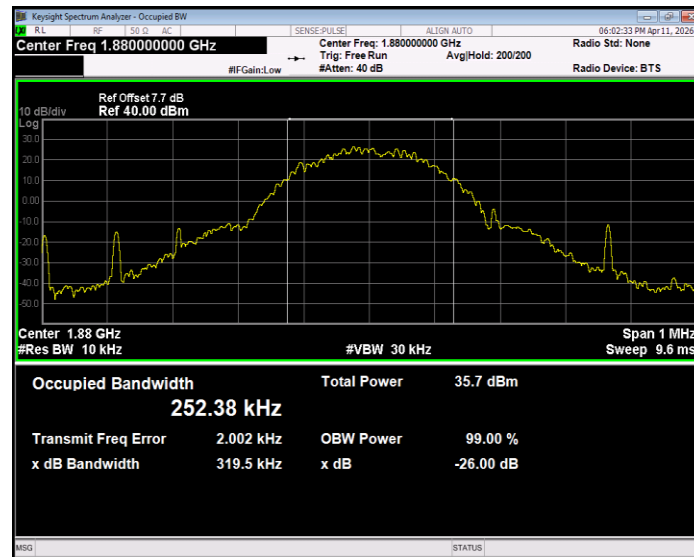
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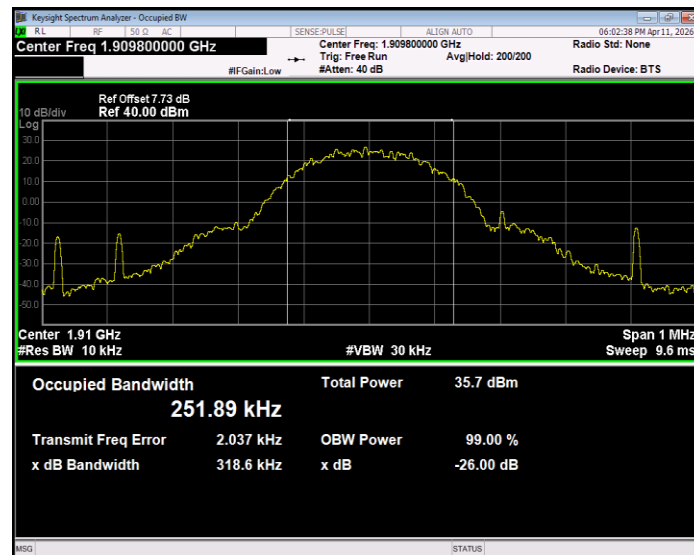


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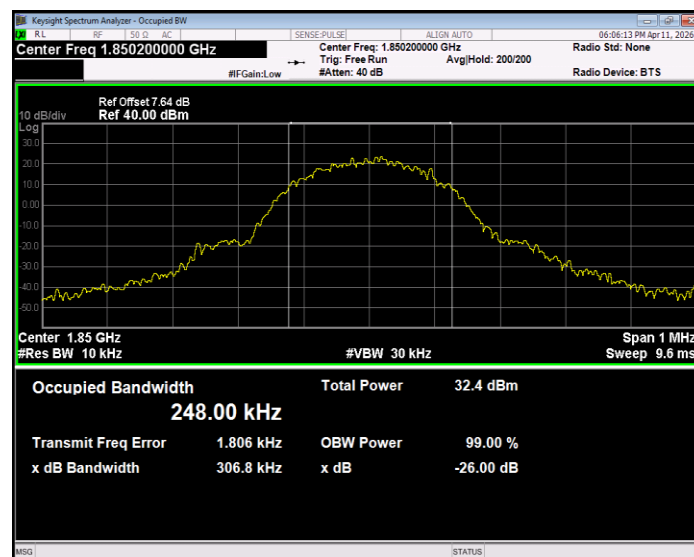
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GPRS1900 Channel=810



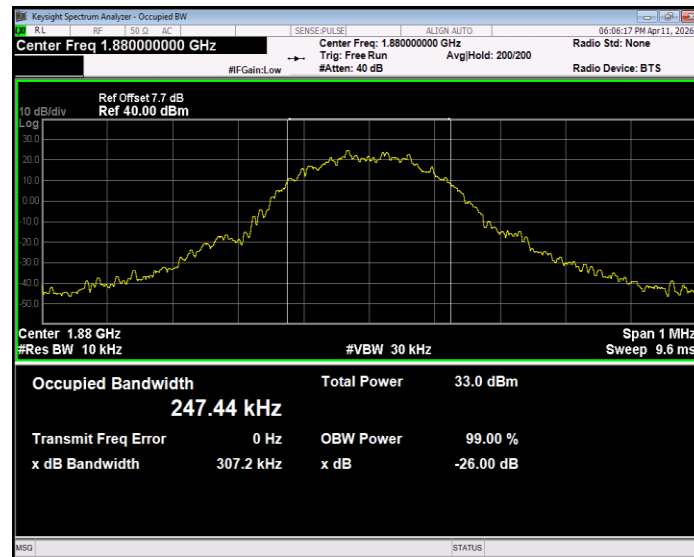
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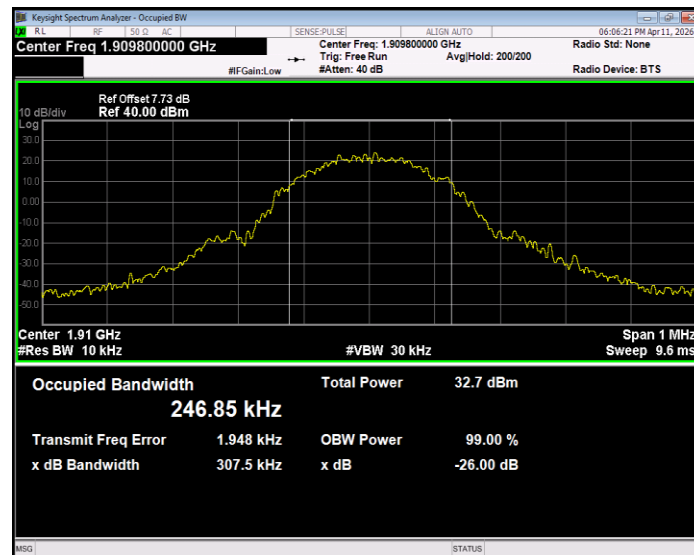


Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810





Report

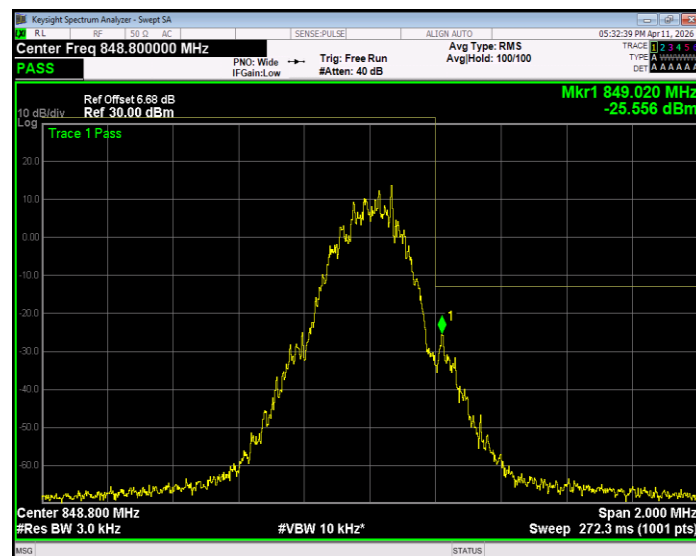
Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM850	128	824.2	824.00	-26.64	-13	PASS
GSM850	251	848.8	849.02	-25.55	-13	PASS
GPRS850	128	824.2	823.98	-28.04	-13	PASS
GPRS850	251	848.8	849.02	-27.15	-13	PASS
EGPRS850	128	824.2	823.99	-33.52	-13	PASS
EGPRS850	251	848.8	849.02	-34.58	-13	PASS
GSM1900	512	1850.2	1850.00	-28.06	-13	PASS
GSM1900	810	1909.8	1910.02	-28.95	-13	PASS
GPRS1900	512	1850.2	1849.97	-31.34	-13	PASS
GPRS1900	810	1909.8	1910.02	-28.81	-13	PASS
EGPRS1900	512	1850.2	1849.99	-36.23	-13	PASS
EGPRS1900	810	1909.8	1910.02	-36.17	-13	PASS

GSM850 Channel=128



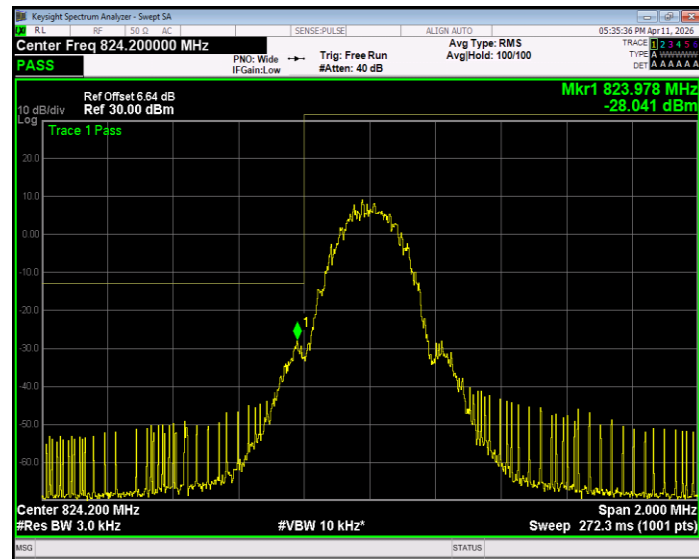
GSM850 Channel=251



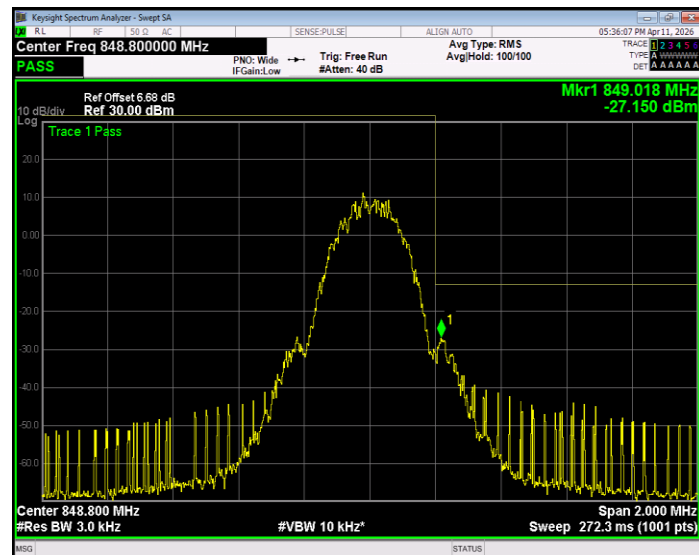


Report

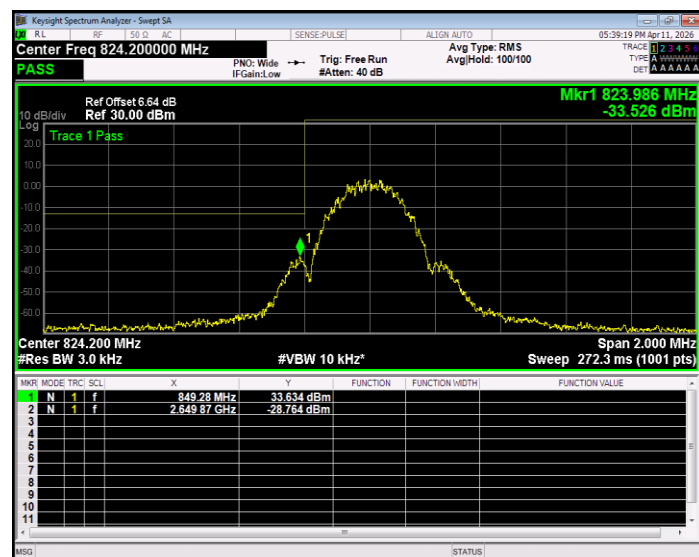
GPRS850 Channel=128



GPRS850 Channel=251



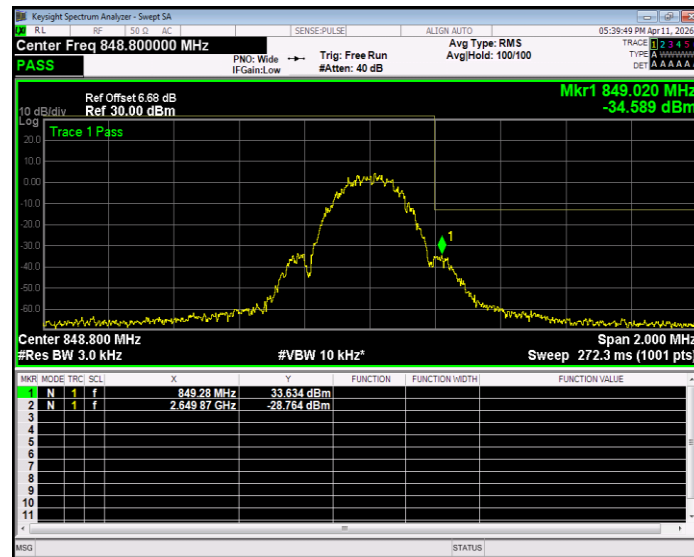
EGPRS850 Channel=128



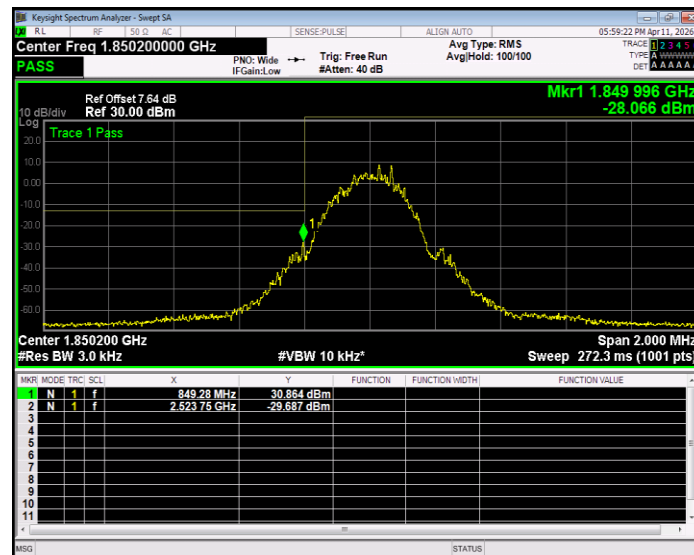


Report

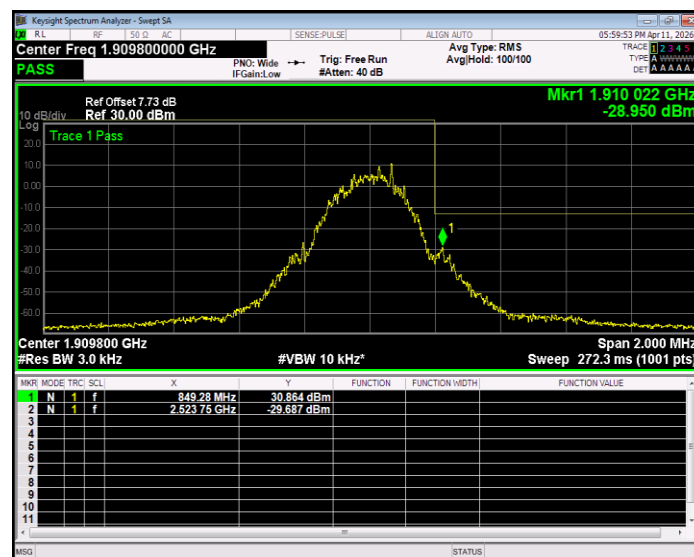
EGPRS850 Channel=251



GSM1900 Channel=512



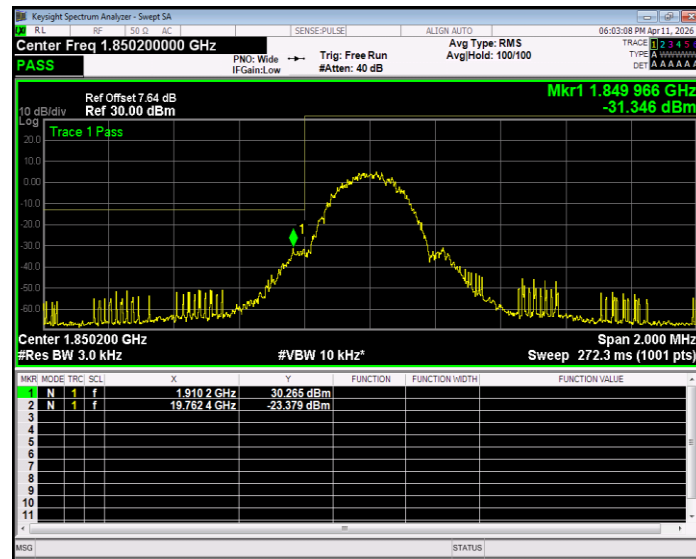
GSM1900 Channel=810



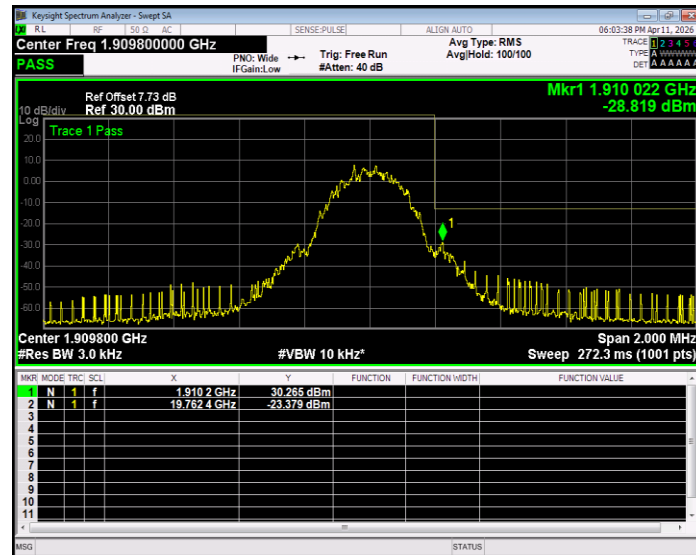


Report

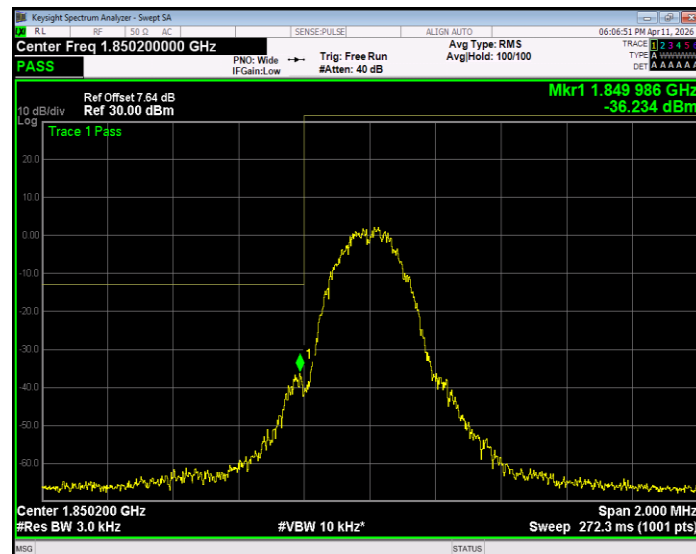
GPRS1900 Channel=512



GPRS1900 Channel=810



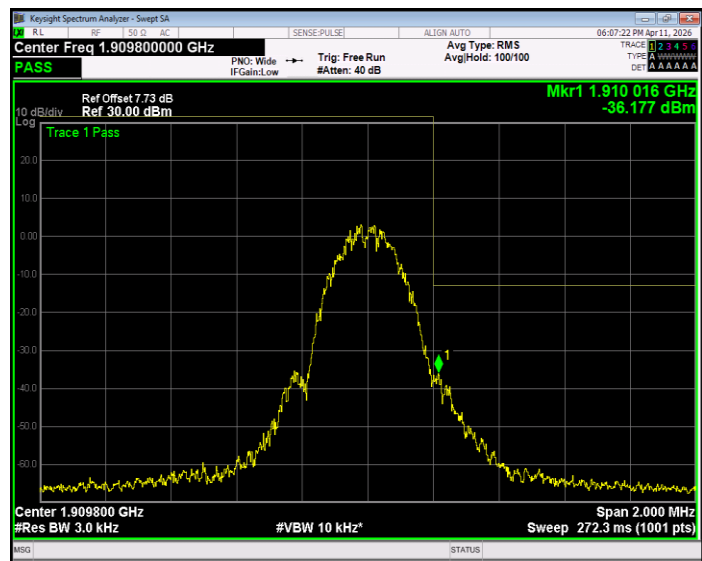
EGPRS1900 Channel=512





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	3158.59	-29.74	-13	PASS
GSM850	190	836.6	3004.30	-29.60	-13	PASS
GSM850	251	848.8	3143.38	-29.93	-13	PASS
GPRS850	128	824.2	3129.92	-29.76	-13	PASS
GPRS850	190	836.6	3168.06	-29.28	-13	PASS
GPRS850	251	848.8	2649.87	-28.76	-13	PASS
EGPRS850	128	824.2	3154.85	-29.32	-13	PASS
EGPRS850	190	836.6	3548.16	-29.23	-13	PASS
EGPRS850	251	848.8	2523.75	-29.68	-13	PASS
GSM1900	512	1850.2	18992.51	-23.40	-13	PASS
GSM1900	661	1880	19040.44	-23.85	-13	PASS
GSM1900	810	1909.8	19762.36	-23.37	-13	PASS
GPRS1900	512	1850.2	19412.38	-24.30	-13	PASS
GPRS1900	661	1880	19810.78	-23.91	-13	PASS
GPRS1900	810	1909.8	18943.09	-23.69	-13	PASS
EGPRS1900	512	1850.2	19833.25	-22.90	-13	PASS
EGPRS1900	661	1880	19728.41	-23.70	-13	PASS
EGPRS1900	810	1909.8	19033.95	-23.80	-13	PASS

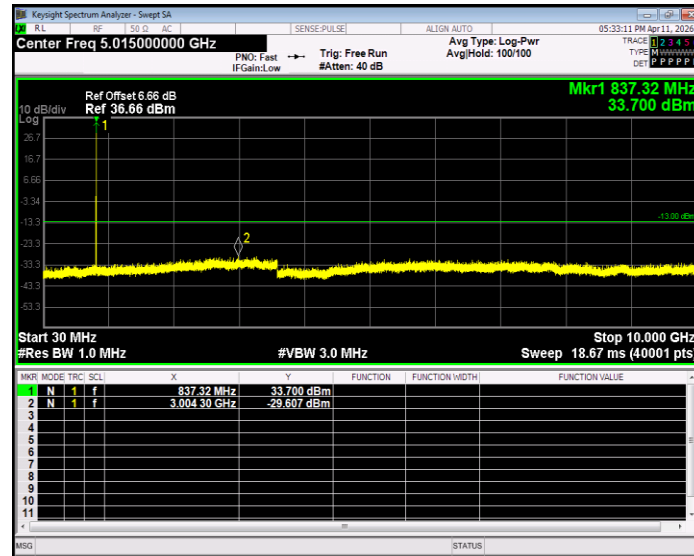
GSM850 Channel=128



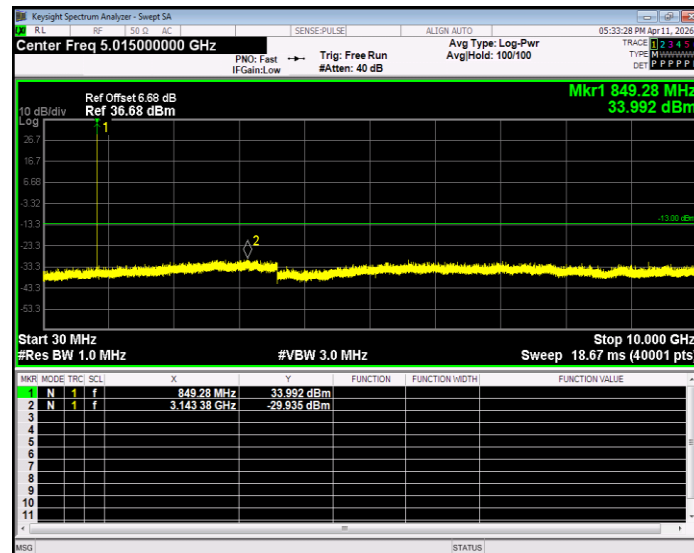
GSM850 Channel=190



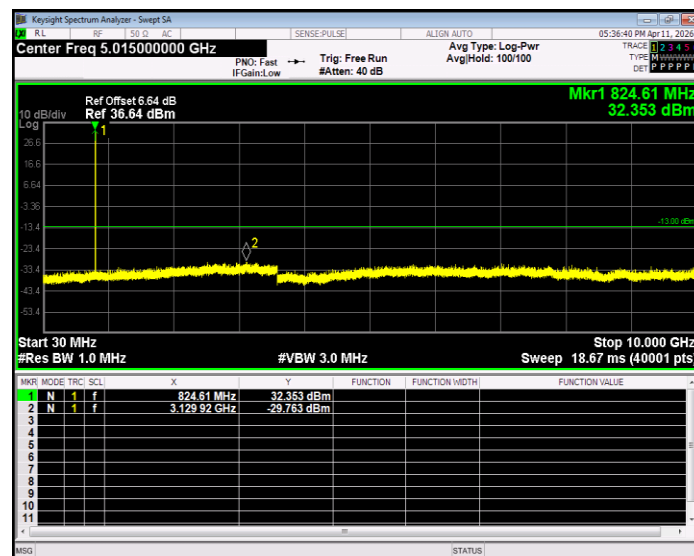
Report



GSM850 Channel=251



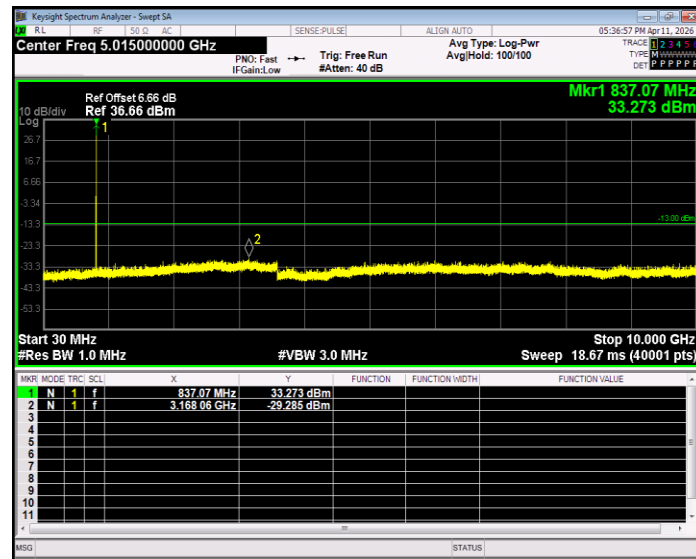
GPRS850 Channel=128



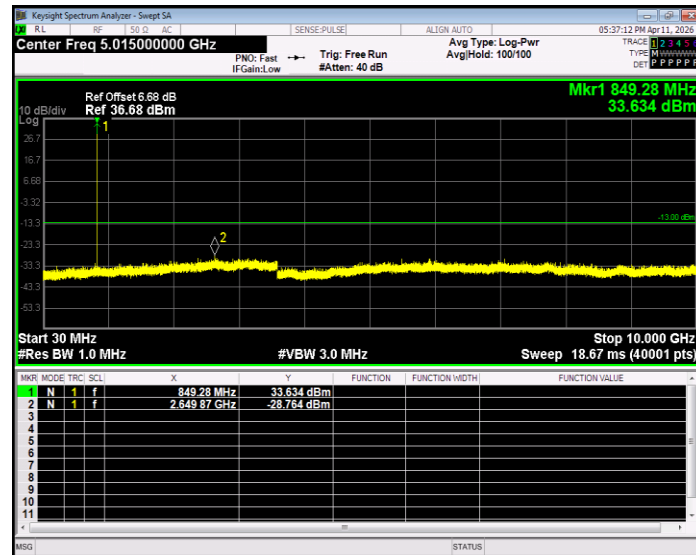


Report

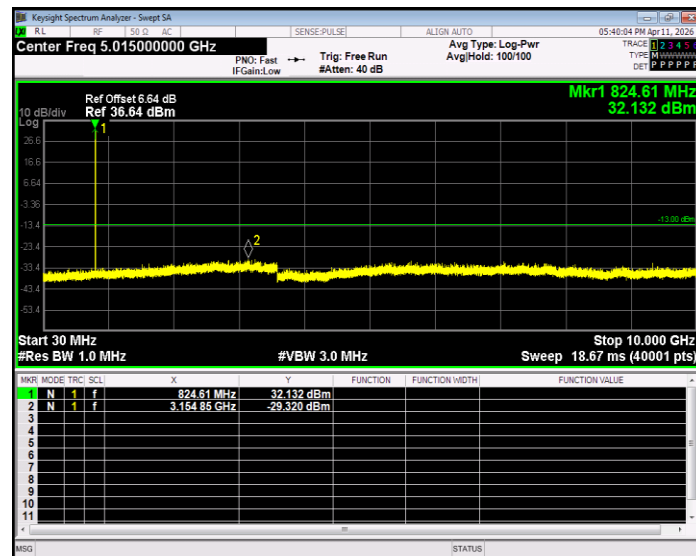
GPRS850 Channel=190



GPRS850 Channel=251



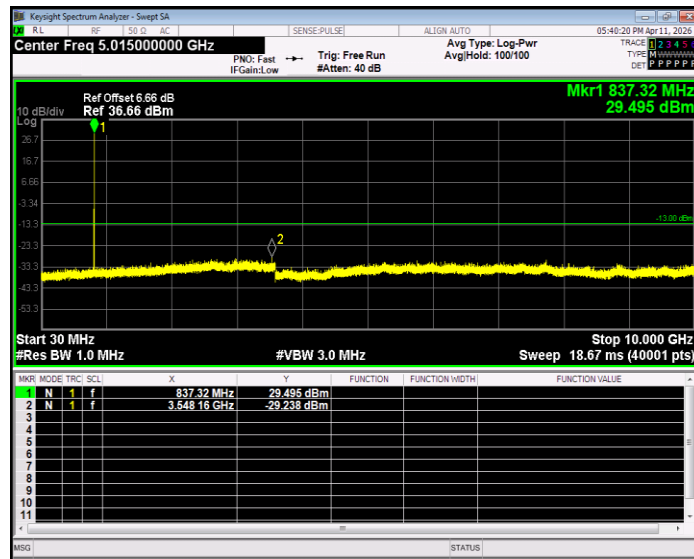
EGPRS850 Channel=128



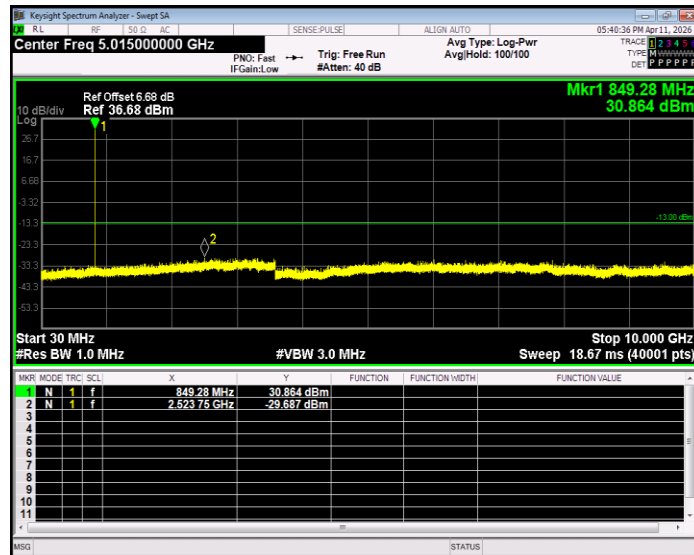


Report

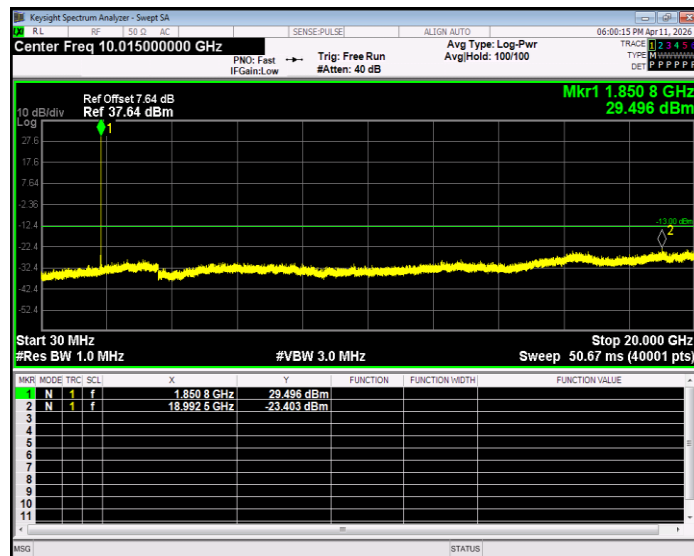
EGPRS850 Channel=190



EGPRS850 Channel=251



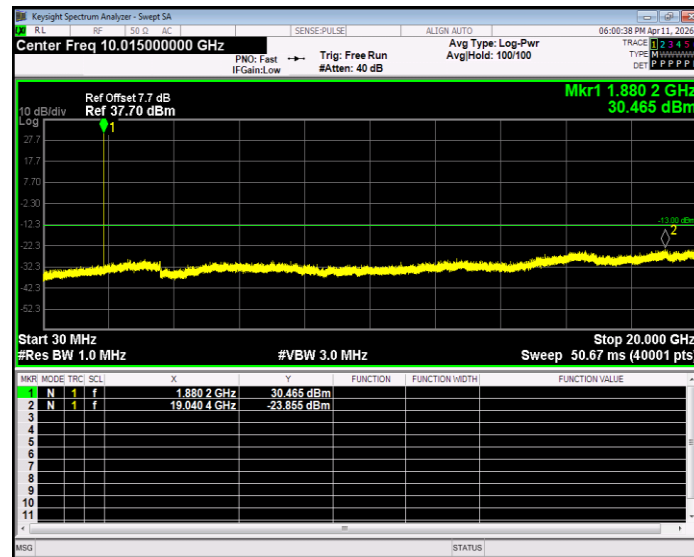
GSM1900 Channel=512



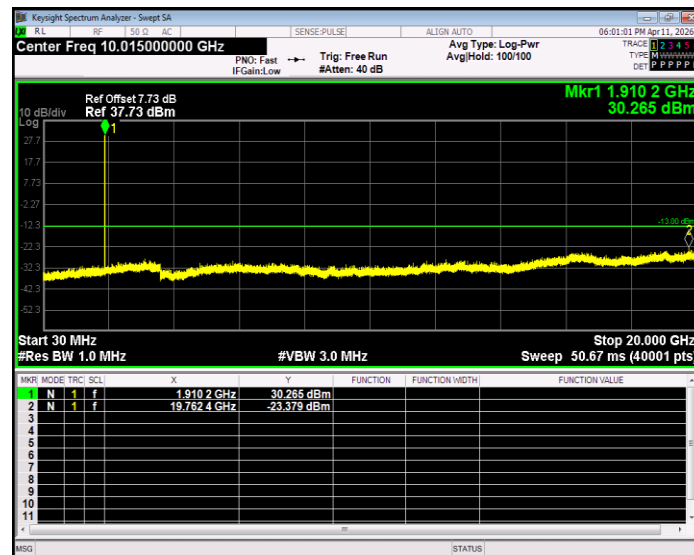


Report

GSM1900 Channel=661



GSM1900 Channel=810



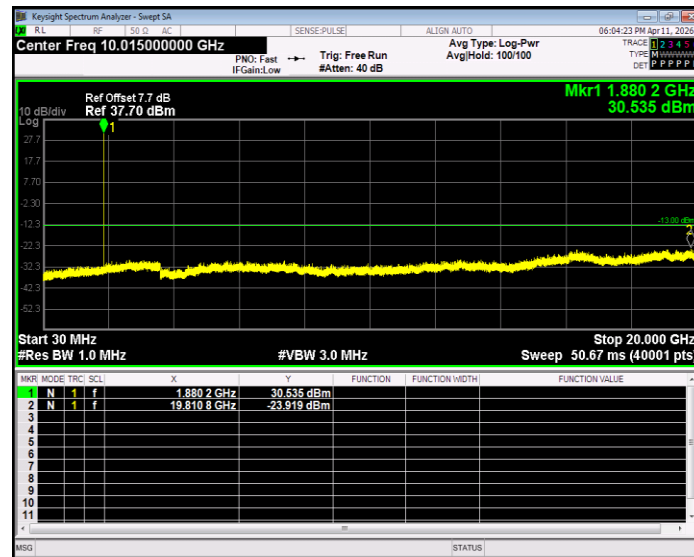
GPRS1900 Channel=512



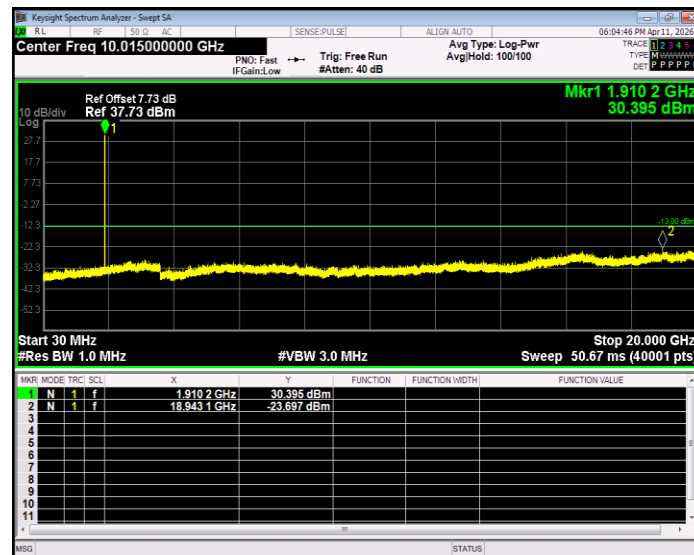


Report

GPRS1900 Channel=661



GPRS1900 Channel=810



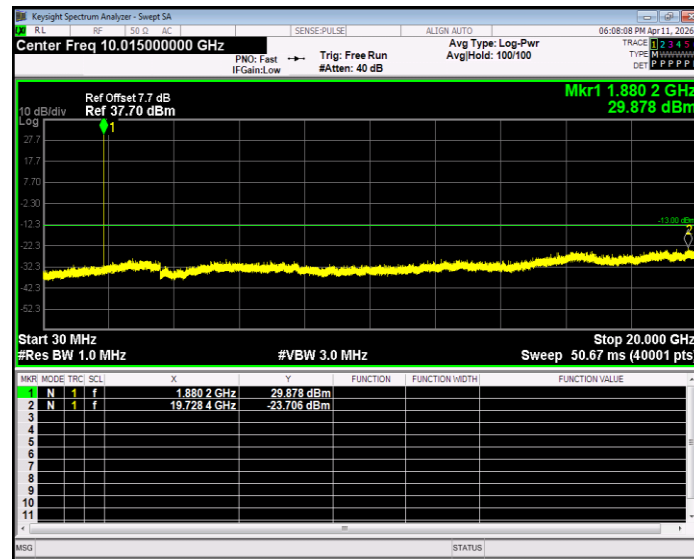
EGPRS1900 Channel=512





Report

EGPRS1900 Channel=661



EGPRS1900 Channel=810

