01 Conducted output power

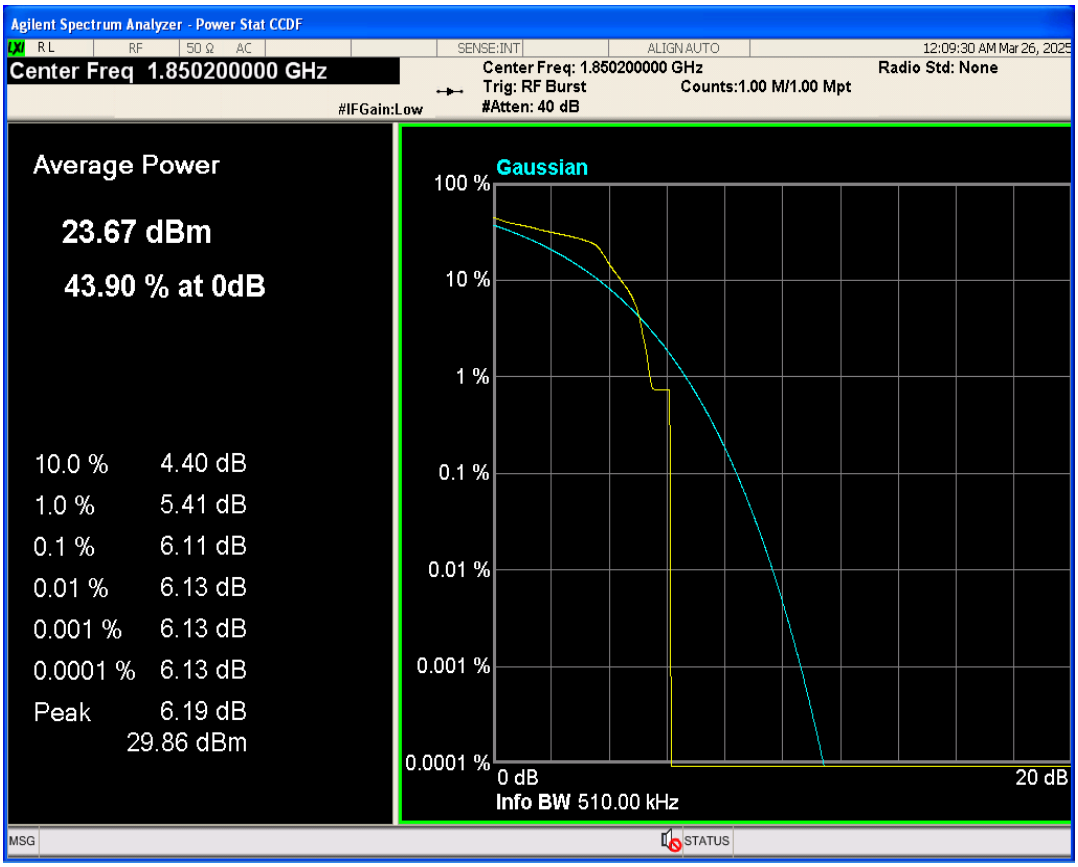
Band	Channel	Frequency (MHz)	Power (dBm)	Verdict
EGPRS1900 1 Slot	512	1850.2	26.20	PASS
EGPRS1900 1 Slot	661	1880	26.07	PASS
EGPRS1900 1 Slot	810	1909.8	25.27	PASS
EGPRS1900 2 Slot	512	1850.2	25.72	PASS
EGPRS1900 2 Slot	661	1880	25.37	PASS
EGPRS1900 2 Slot	810	1909.8	25.14	PASS
EGPRS1900 3 Slot	512	1850.2	24.68	PASS
EGPRS1900 3 Slot	661	1880	24.43	PASS
EGPRS1900 3 Slot	810	1909.8	23.87	PASS
EGPRS1900 4 Slot	512	1850.2	22.68	PASS
EGPRS1900 4 Slot	661	1880	23.13	PASS
EGPRS1900 4 Slot	810	1909.8	22.69	PASS
EGPRS850 1 Slot	128	824.2	27.22	PASS
EGPRS850 1 Slot	189	836.4	27.36	PASS
EGPRS850 1 Slot	251	848.8	27.12	PASS
EGPRS850 2 Slot	128	824.2	26.39	PASS
EGPRS850 2 Slot	189	836.4	26.21	PASS
EGPRS850 2 Slot	251	848.8	26.75	PASS
EGPRS850 3 Slot	128	824.2	24.45	PASS
EGPRS850 3 Slot	189	836.4	24.48	PASS
EGPRS850 3 Slot	251	848.8	24.52	PASS
EGPRS850 4 Slot	128	824.2	23.21	PASS
EGPRS850 4 Slot	189	836.4	23.25	PASS
EGPRS850 4 Slot	251	848.8	23.46	PASS
GPRS1900 1 Slot	512	1850.2	29.75	PASS
GPRS1900 1 Slot	661	1880	29.72	PASS
GPRS1900 1 Slot	810	1909.8	29.33	PASS
GPRS1900 2 Slot	512	1850.2	28.75	PASS
GPRS1900 2 Slot	661	1880	28.76	PASS
GPRS1900 2 Slot	810	1909.8	28.41	PASS
GPRS1900 3 Slot	512	1850.2	26.52	PASS
GPRS1900 3 Slot	661	1880	26.61	PASS
GPRS1900 3 Slot	810	1909.8	26.42	PASS
GPRS1900 4 Slot	512	1850.2	25.46	PASS
GPRS1900 4 Slot	661	1880	25.56	PASS
GPRS1900 4 Slot	810	1909.8	25.41	PASS
GPRS850 1 Slot	128	824.2	32.89	PASS
GPRS850 1 Slot	189	836.4	32.90	PASS
GPRS850 1 Slot	251	848.8	32.99	PASS
GPRS850 2 Slot	128	824.2	31.91	PASS
GPRS850 2 Slot	189	836.4	31.94	PASS

GPRS850 2 Slot	251	848.8	32.03	PASS
GPRS850 3 Slot	128	824.2	29.79	PASS
GPRS850 3 Slot	189	836.4	29.80	PASS
GPRS850 3 Slot	251	848.8	29.96	PASS
GPRS850 4 Slot	128	824.2	28.64	PASS
GPRS850 4 Slot	189	836.4	28.66	PASS
GPRS850 4 Slot	251	848.8	28.77	PASS
GSM1900	512	1850.2	29.73	PASS
GSM1900	661	1880	29.69	PASS
GSM1900	810	1909.8	29.29	PASS
GSM850	128	824.2	32.92	PASS
GSM850	189	836.4	32.95	PASS
GSM850	251	848.8	33.03	PASS

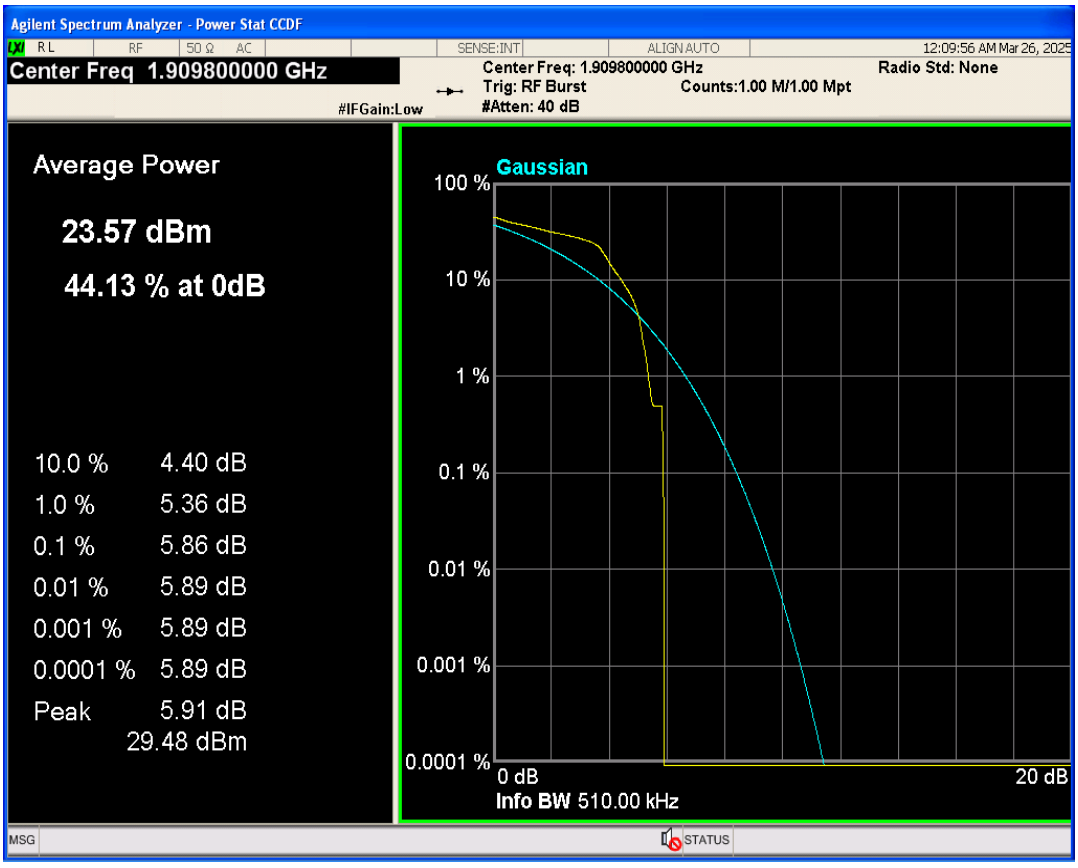
15 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
EGPRS1900	512	1850.2	6.11	13	PASS
EGPRS1900	661	1880	6.31	13	PASS
EGPRS1900	810	1909.8	5.86	13	PASS
EGPRS850	128	824.2	8.77	13	PASS
EGPRS850	189	836.4	8.65	13	PASS
EGPRS850	251	848.8	8.32	13	PASS

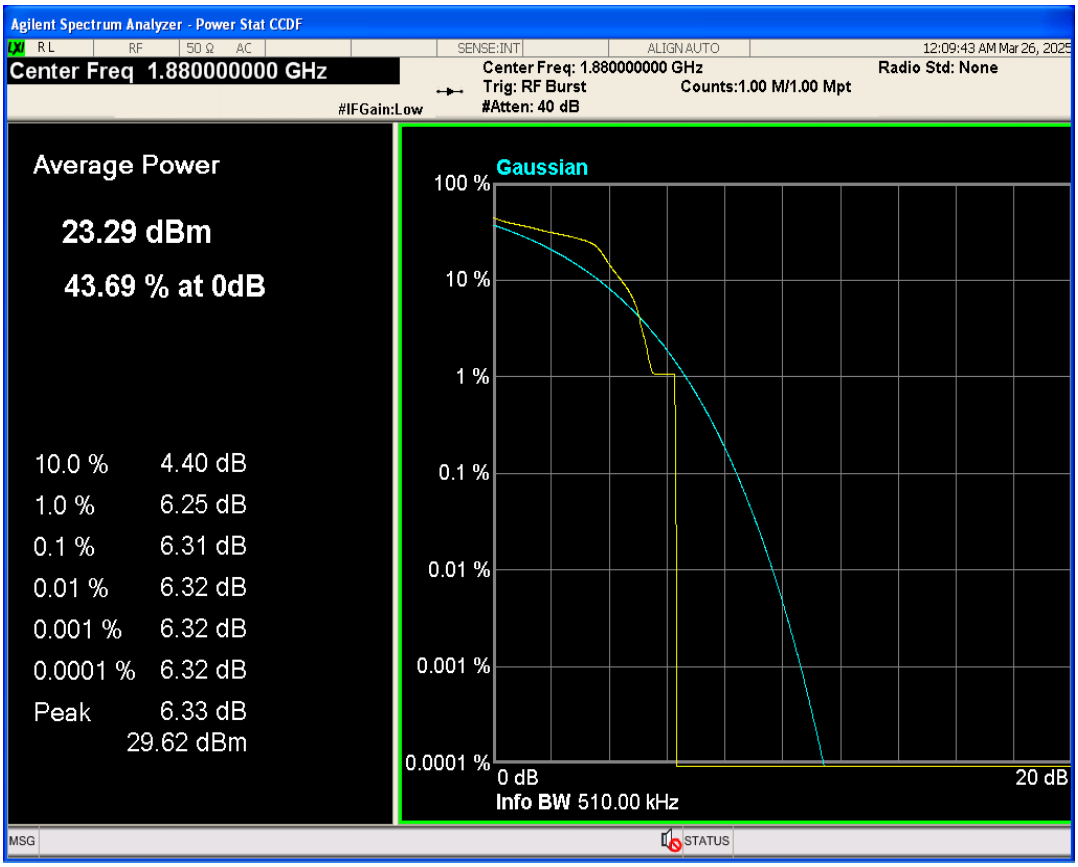
EGPRS1900 Channel=512



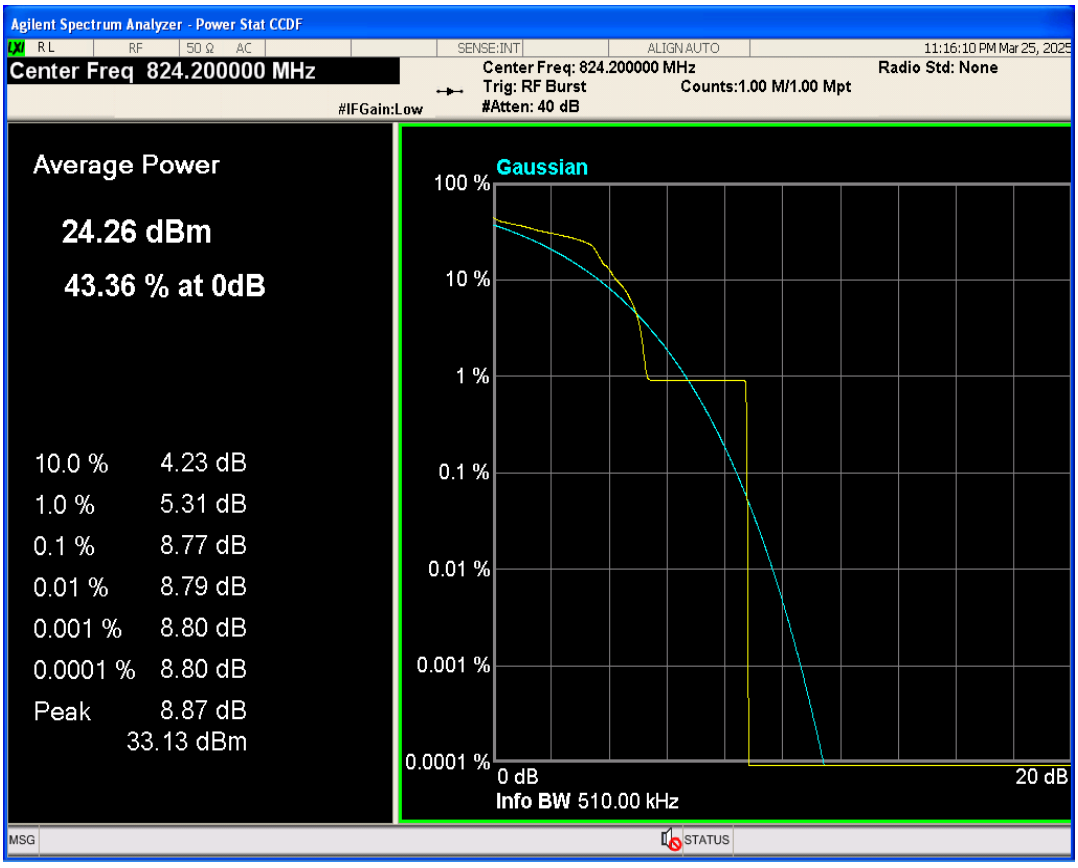
EGPRS1900 Channel=810



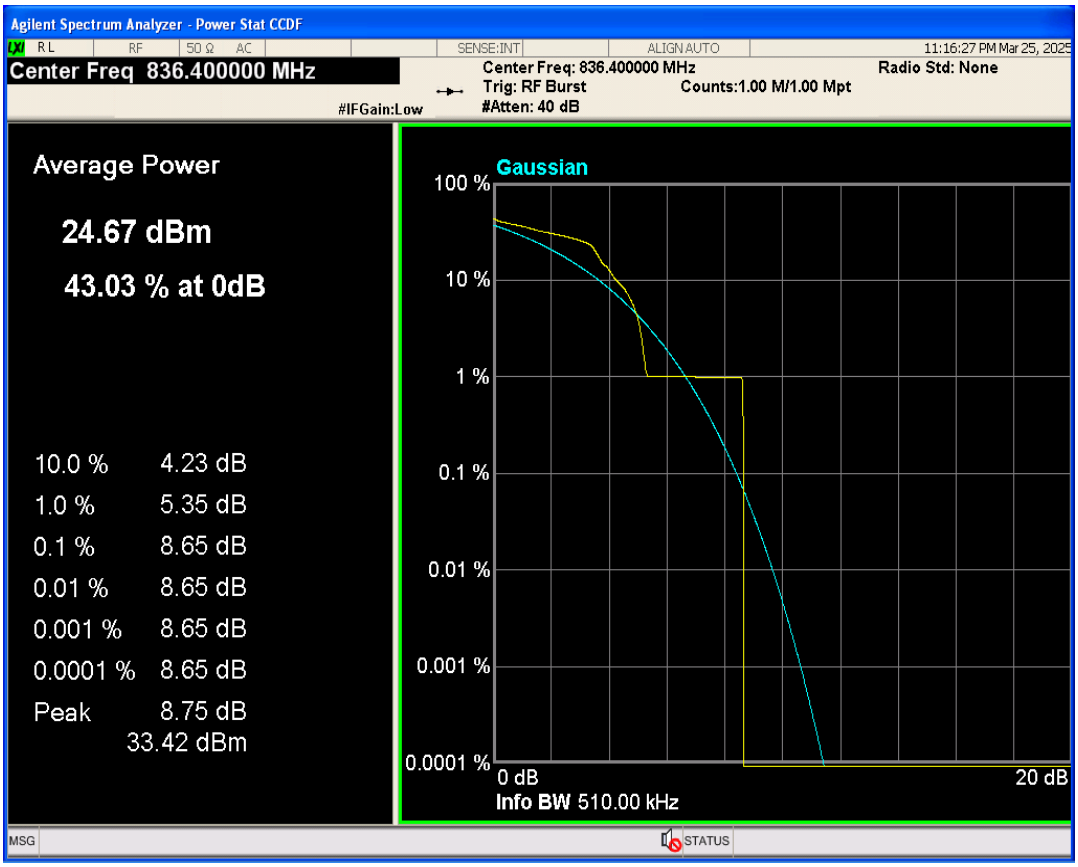
EGPRS1900 Channel=661



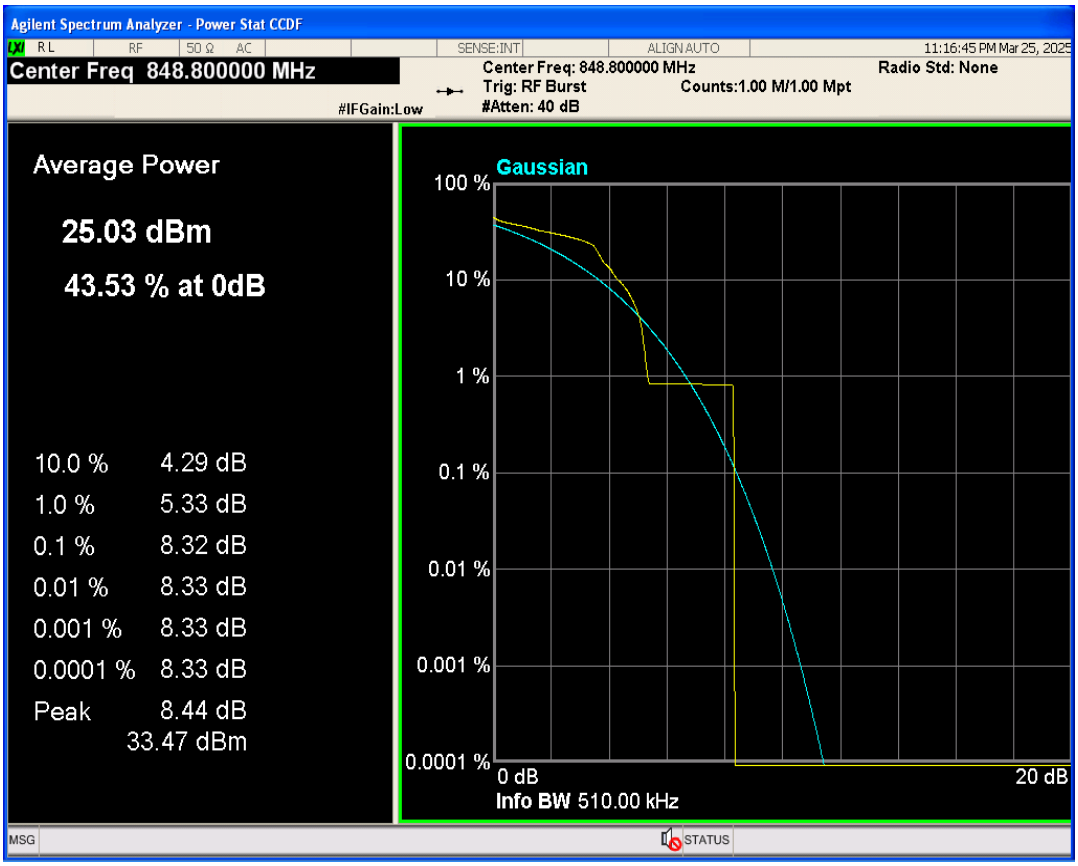
EGPRS850 Channel=128



EGPRS850 Channel=189



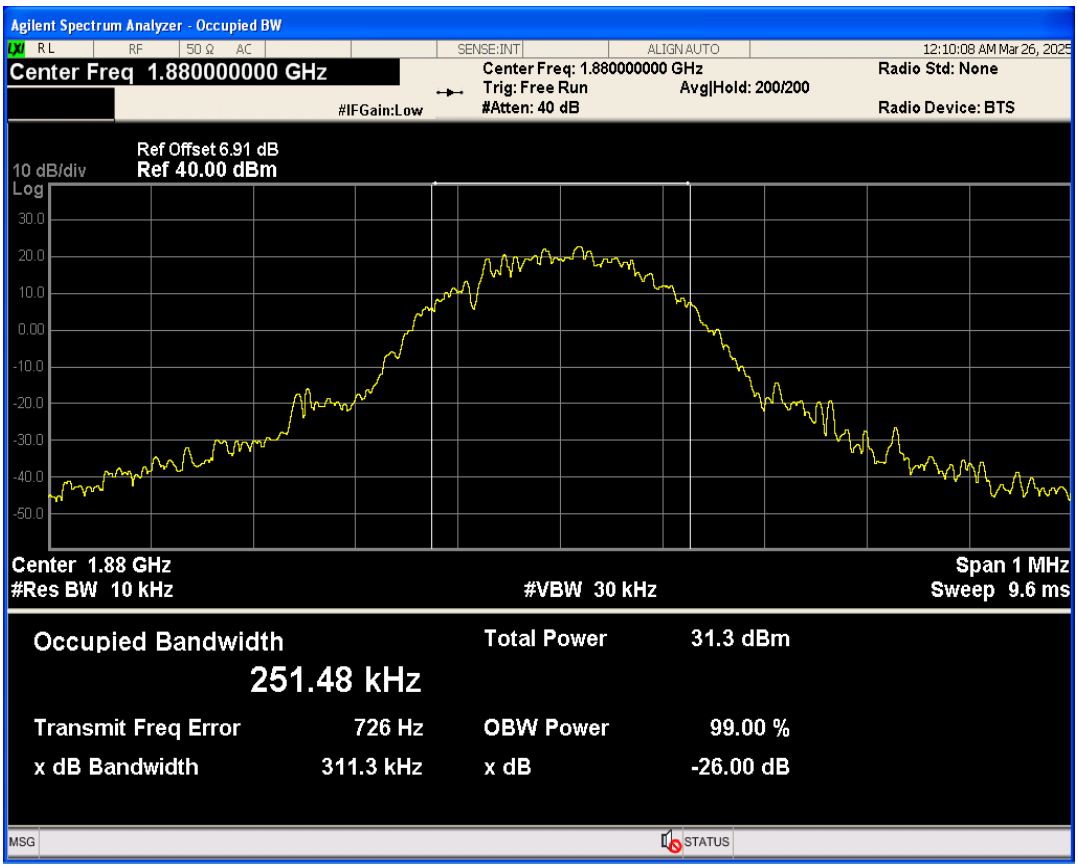
EGPRS850 Channel=251



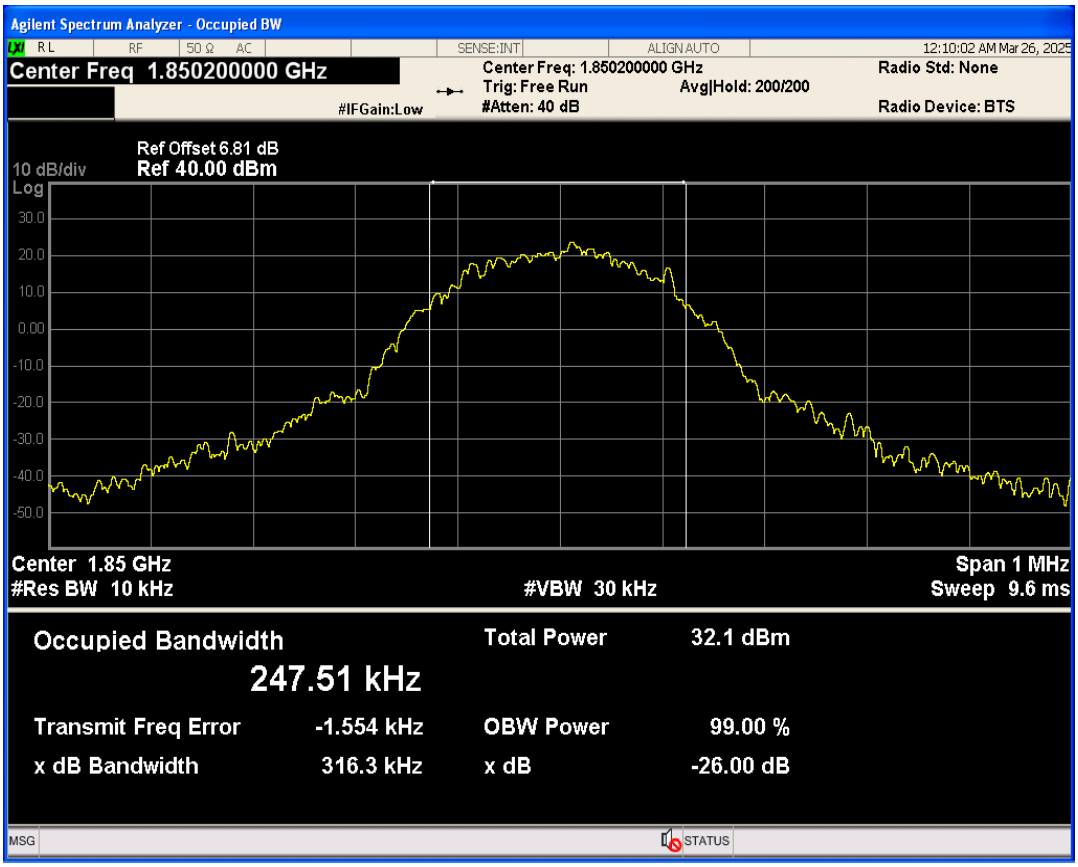
16 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
EGPRS1900	512	1850.2	247.508	316.302	PASS
EGPRS1900	661	1880	251.477	311.316	PASS
EGPRS1900	810	1909.8	254.764	334.798	PASS
EGPRS850	128	824.2	255.113	322.193	PASS
EGPRS850	189	836.4	256.536	311.745	PASS
EGPRS850	251	848.8	247.484	308.984	PASS

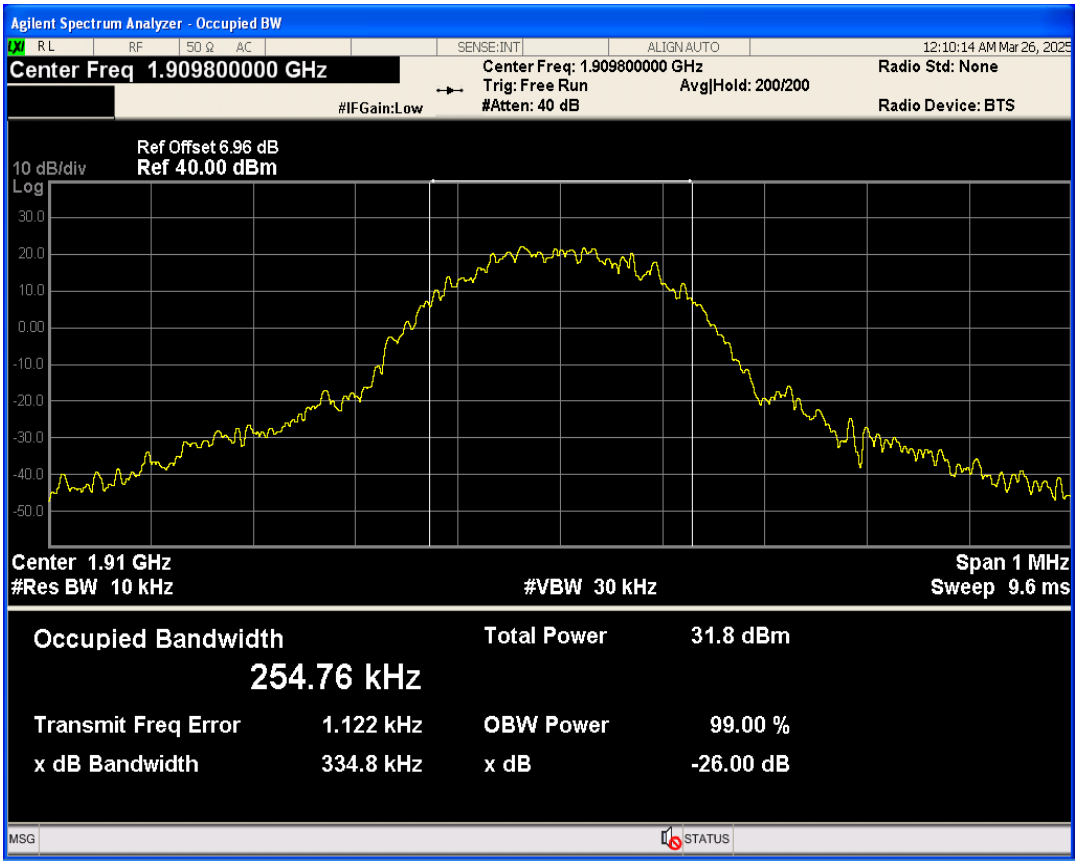
EGPRS1900 Channel=661



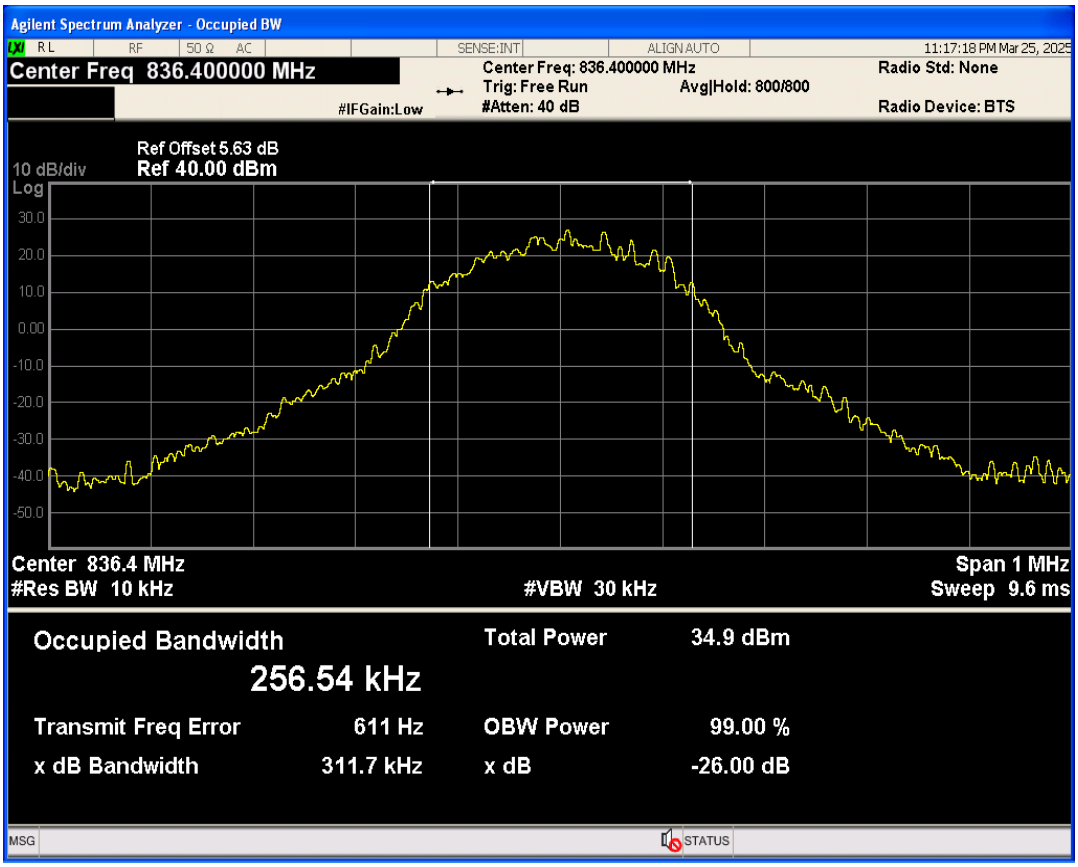
EGPRS1900 Channel=512



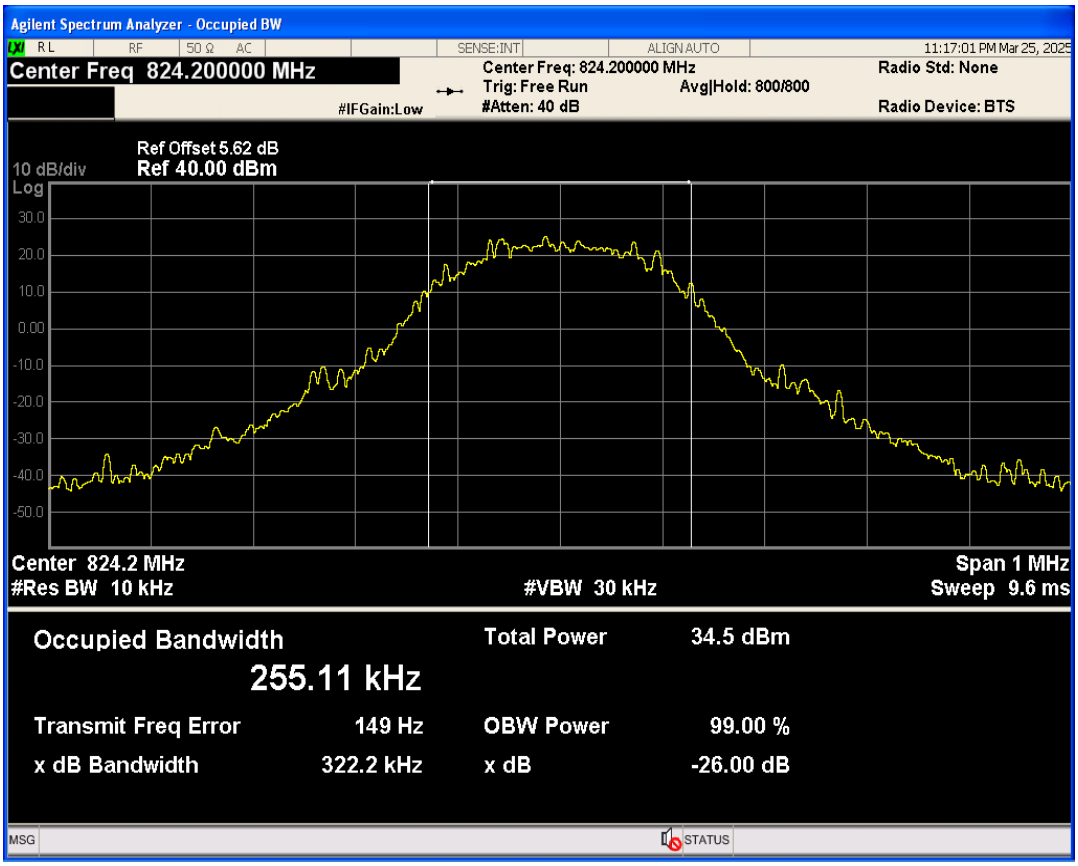
EGPRS1900 Channel=810



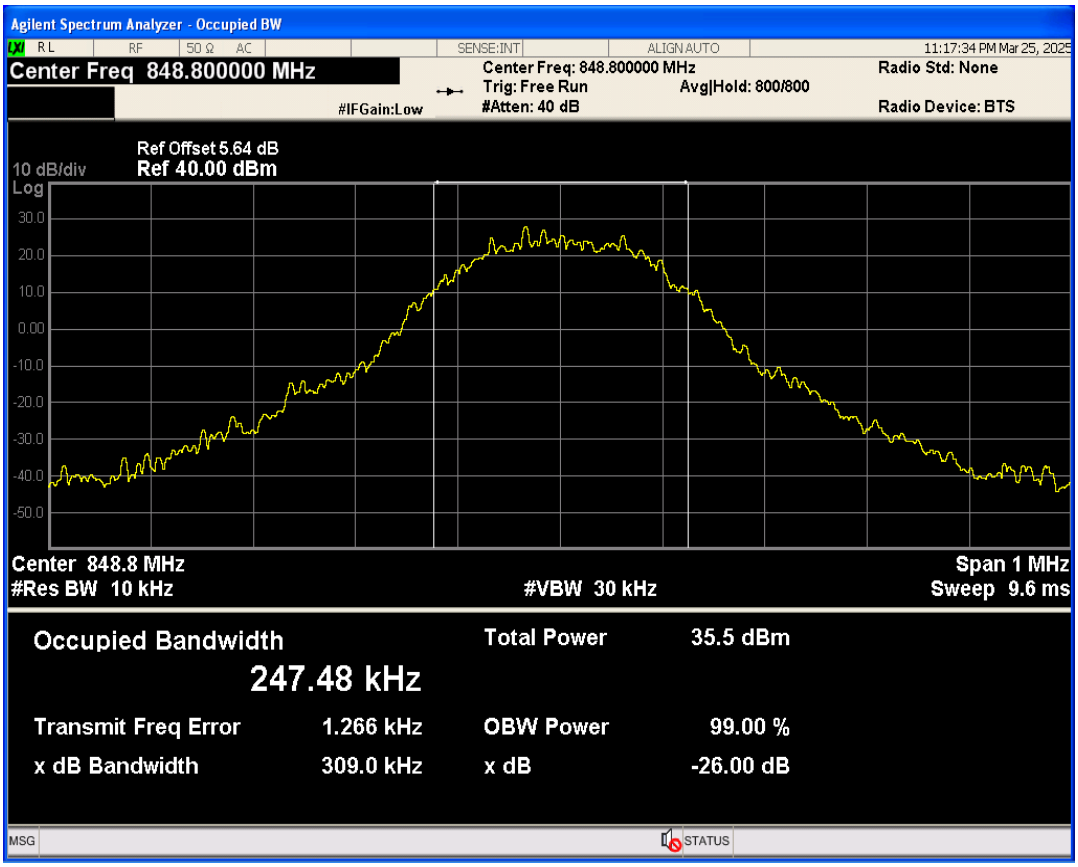
EGPRS850 Channel=189



EGPRS850 Channel=128



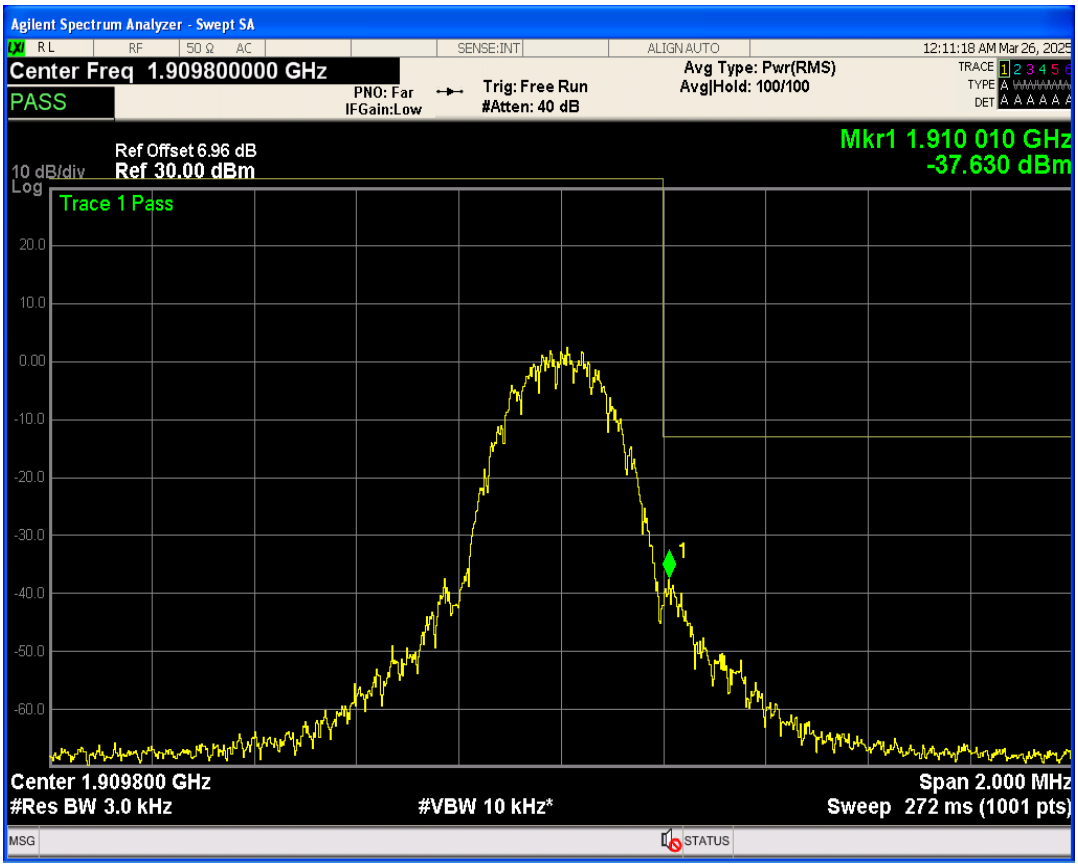
EGPRS850 Channel=251



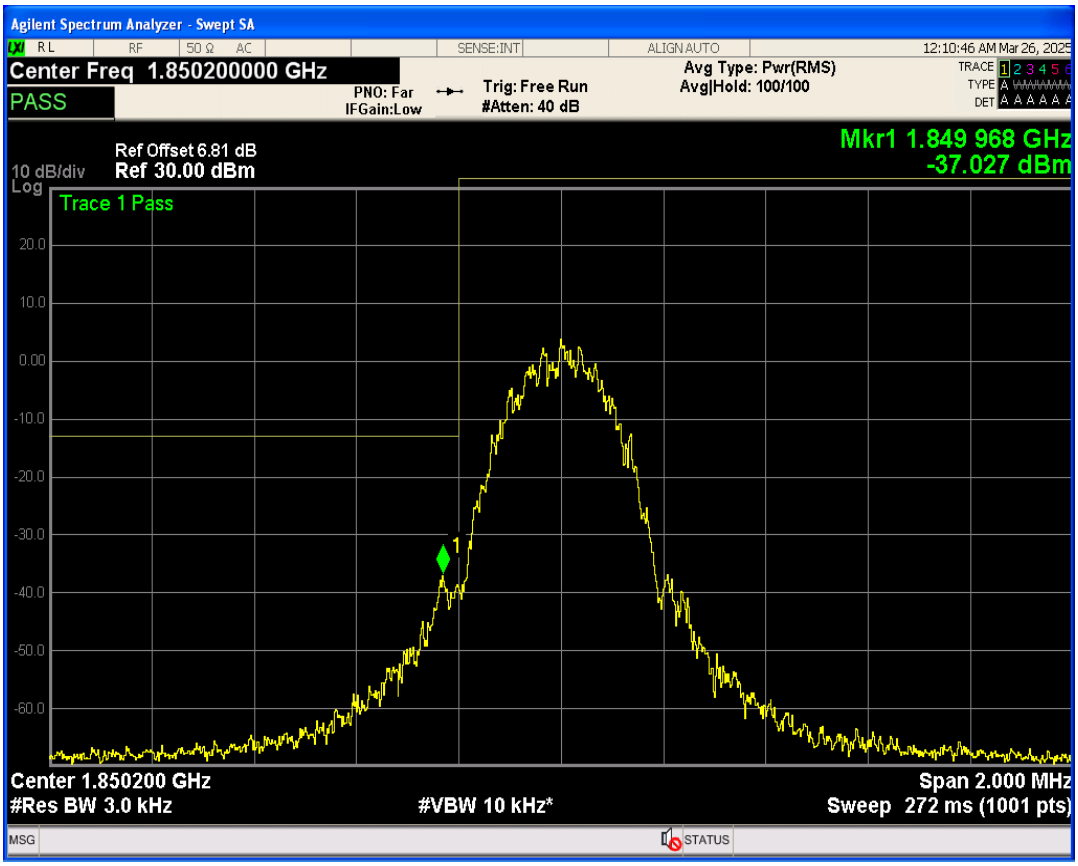
17 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
EGPRS1900	512	1850.2	1849.97	-37.02	-13	PASS
EGPRS1900	810	1909.8	1910.01	-37.63	-13	PASS
EGPRS850	128	824.2	824.00	-32.94	-13	PASS
EGPRS850	251	848.8	849.01	-32.66	-13	PASS

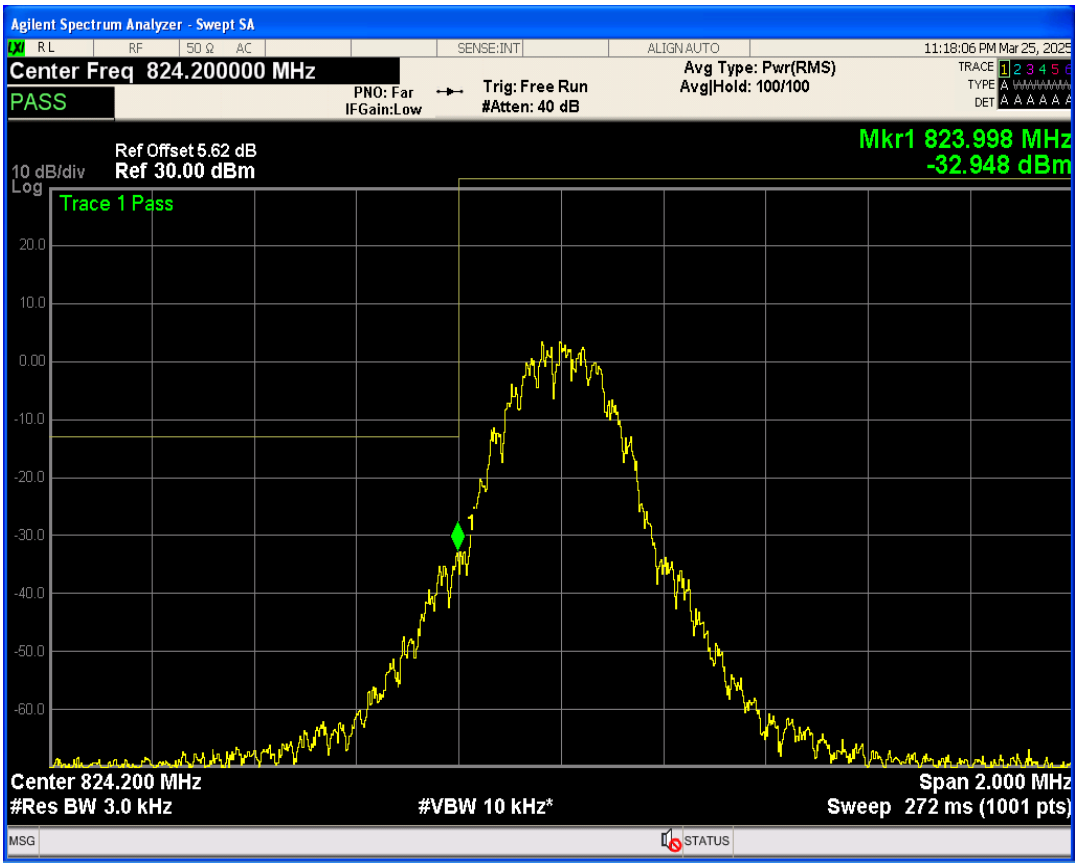
EGPRS1900 Channel=810



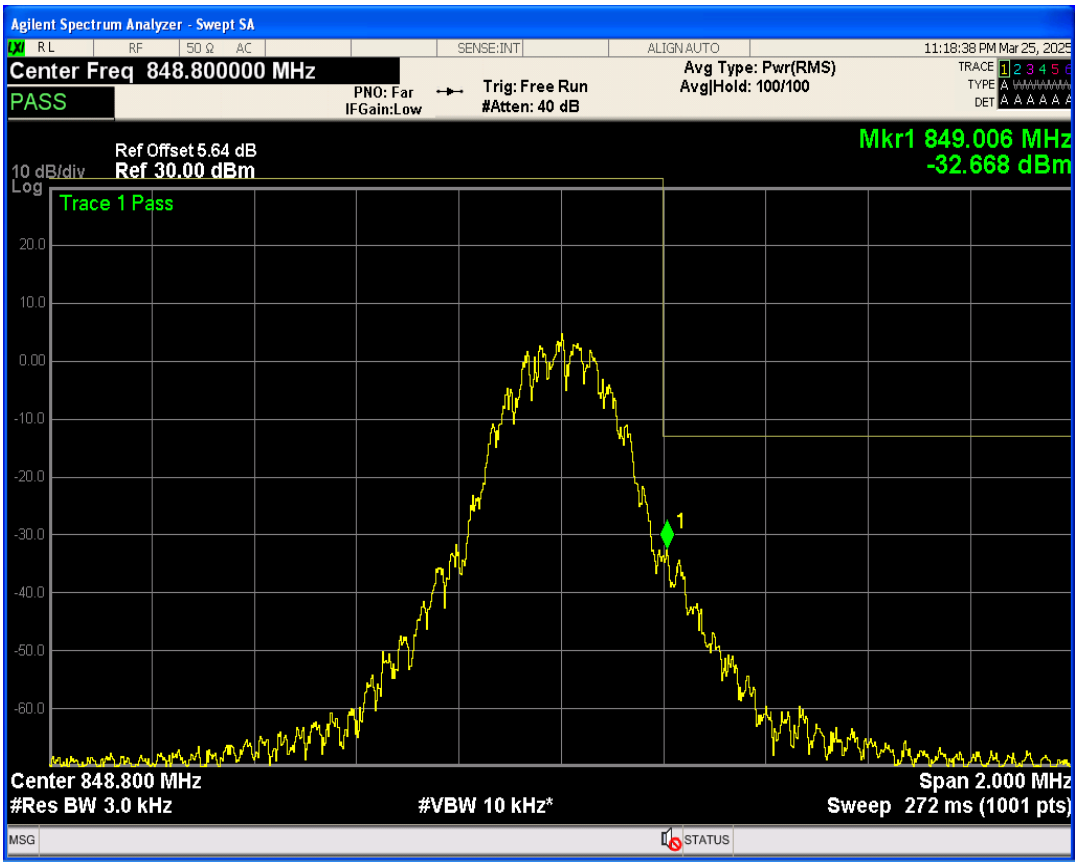
EGPRS1900 Channel=512



EGPRS850 Channel=128



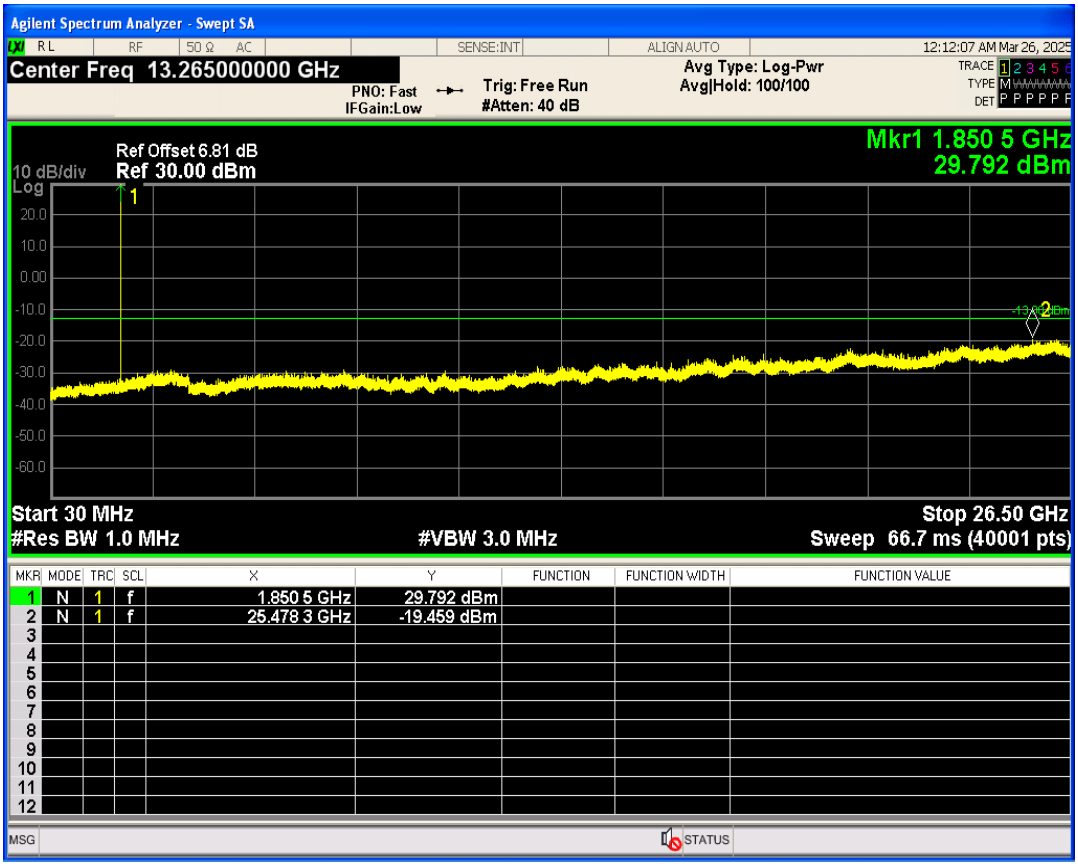
EGPRS850 Channel=251



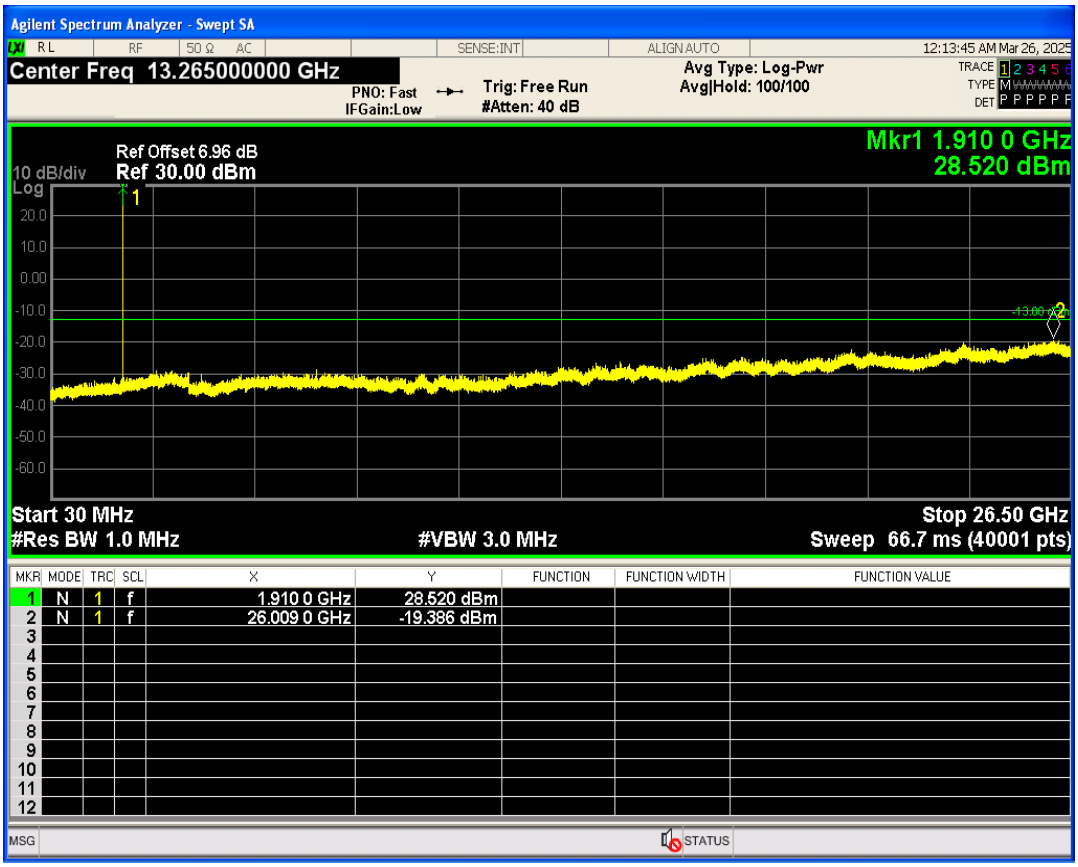
18 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
EGPRS1900	512	1850.2	25478.26	-19.45	-13	PASS
EGPRS1900	661	1880	25566.27	-18.64	-13	PASS
EGPRS1900	810	1909.8	26008.98	-19.38	-13	PASS
EGPRS850	128	824.2	26025.53	-20.73	-13	PASS
EGPRS850	189	836.4	26105.60	-20.80	-13	PASS
EGPRS850	251	848.8	26074.49	-20.28	-13	PASS

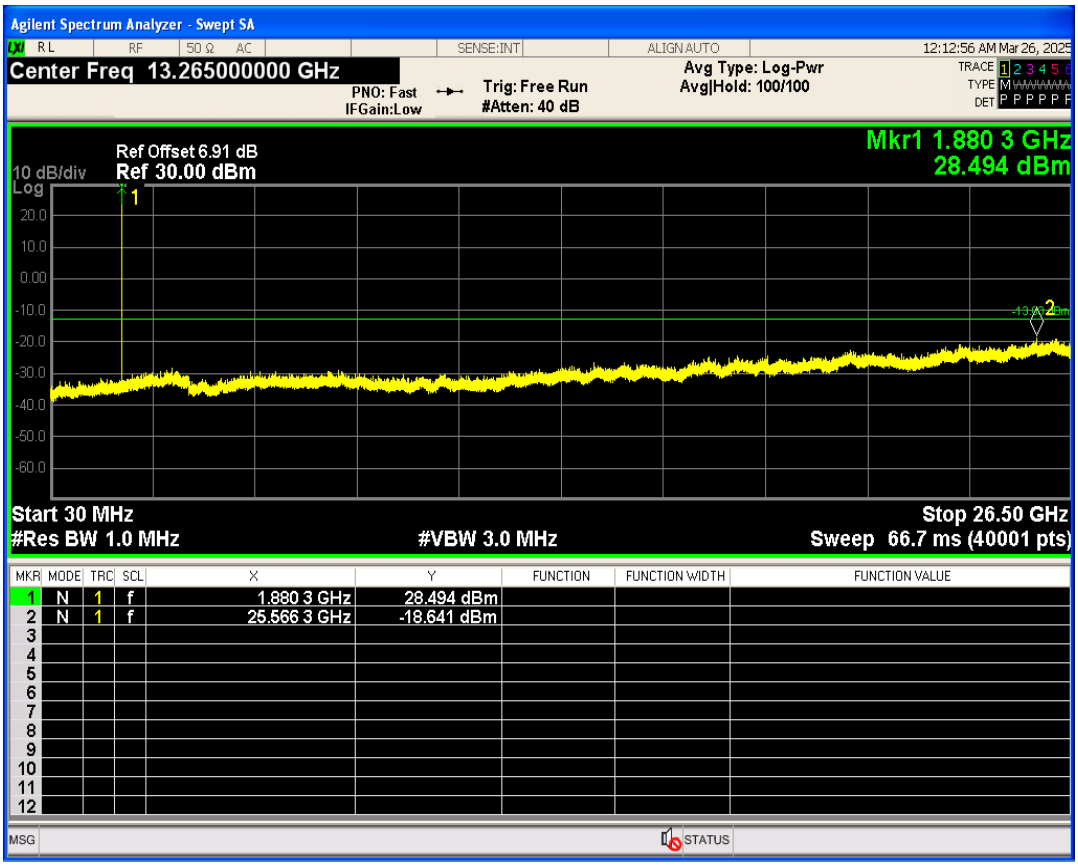
EGPRS1900 Channel=512



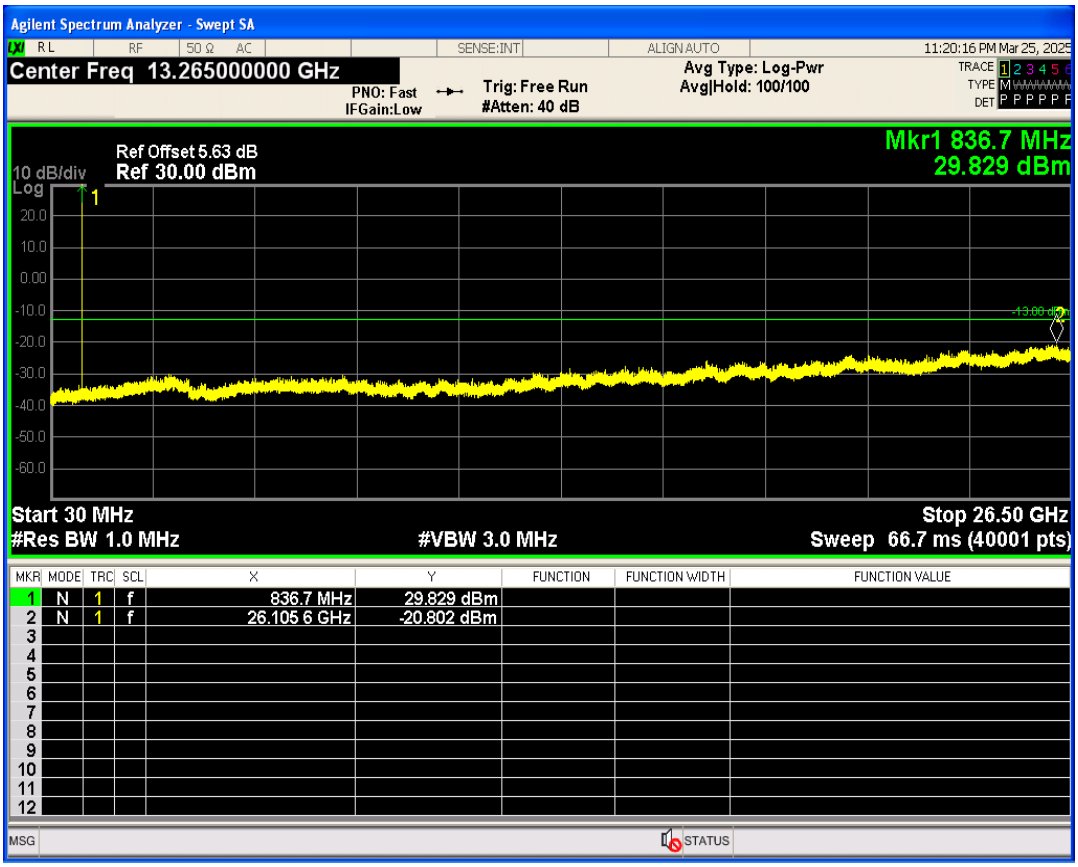
EGPRS1900 Channel=810



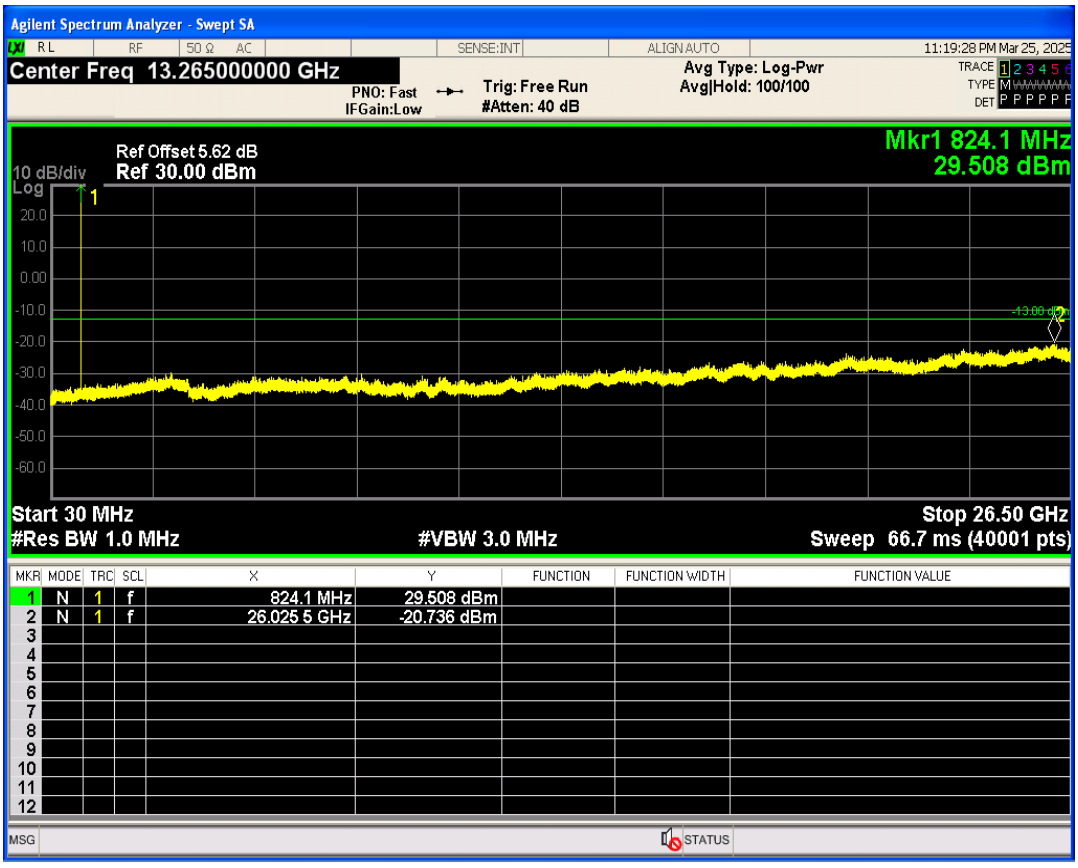
EGPRS1900 Channel=661



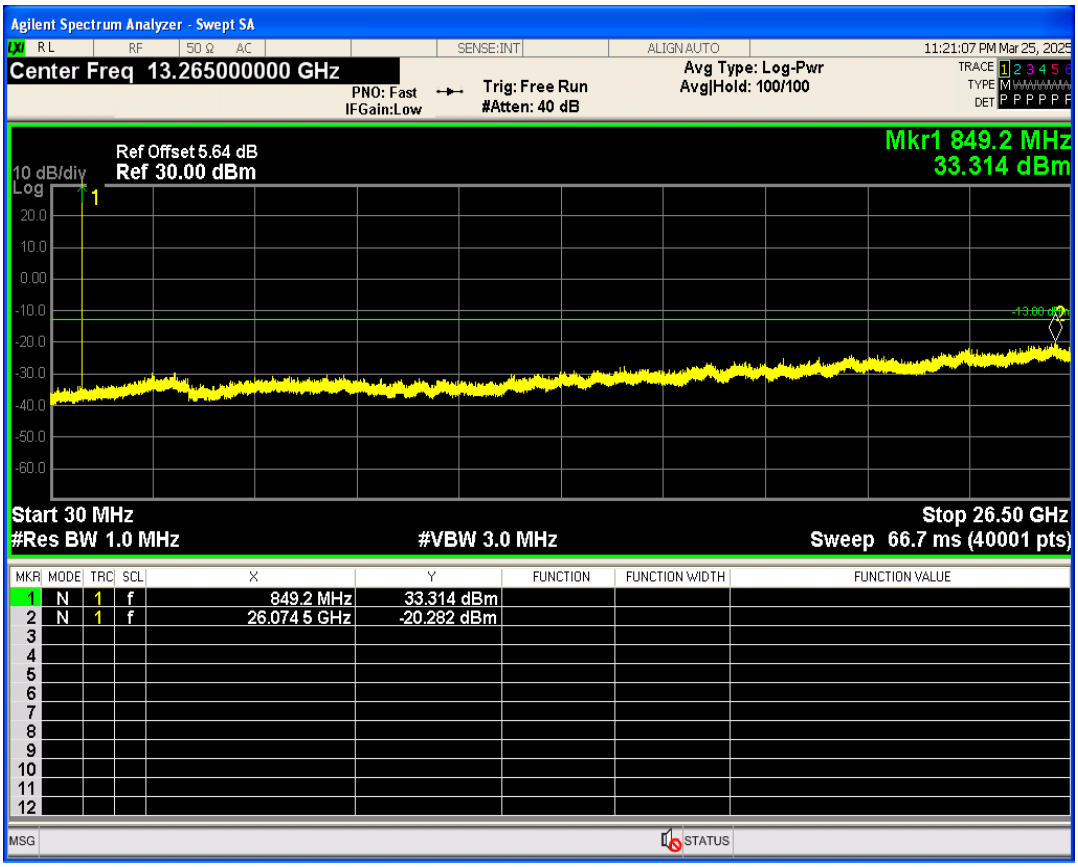
EGPRS850 Channel=189



EGPRS850 Channel=128



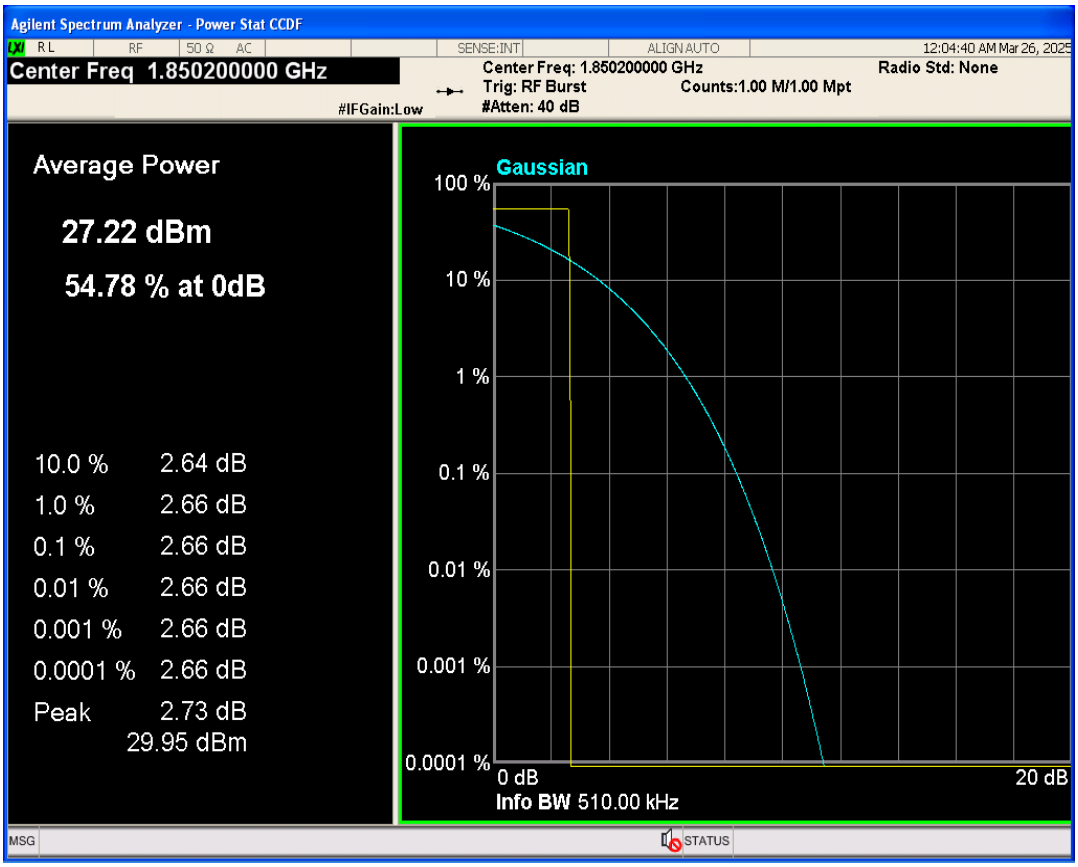
EGPRS850 Channel=251



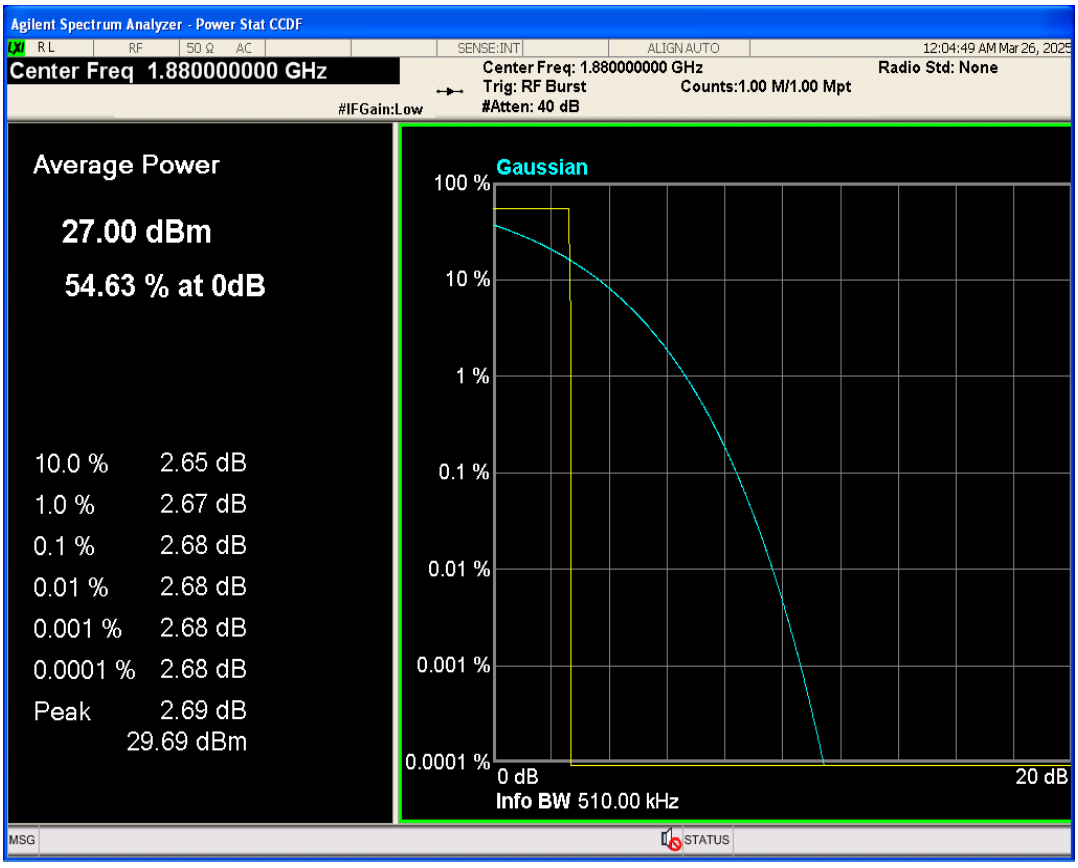
09 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GPRS1900	512	1850.2	2.66	13	PASS
GPRS1900	661	1880	2.68	13	PASS
GPRS1900	810	1909.8	2.67	13	PASS
GPRS850	128	824.2	2.69	13	PASS
GPRS850	189	836.4	2.67	13	PASS
GPRS850	251	848.8	2.67	13	PASS

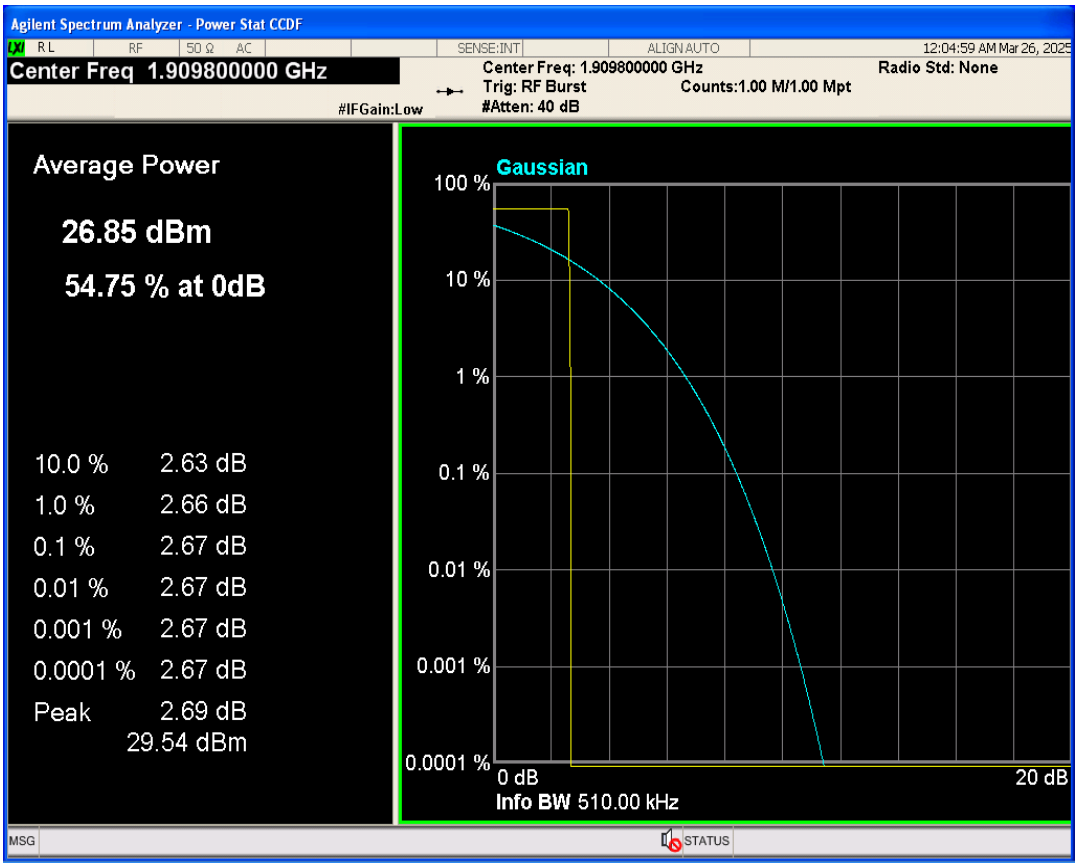
GPRS1900 Channel=512



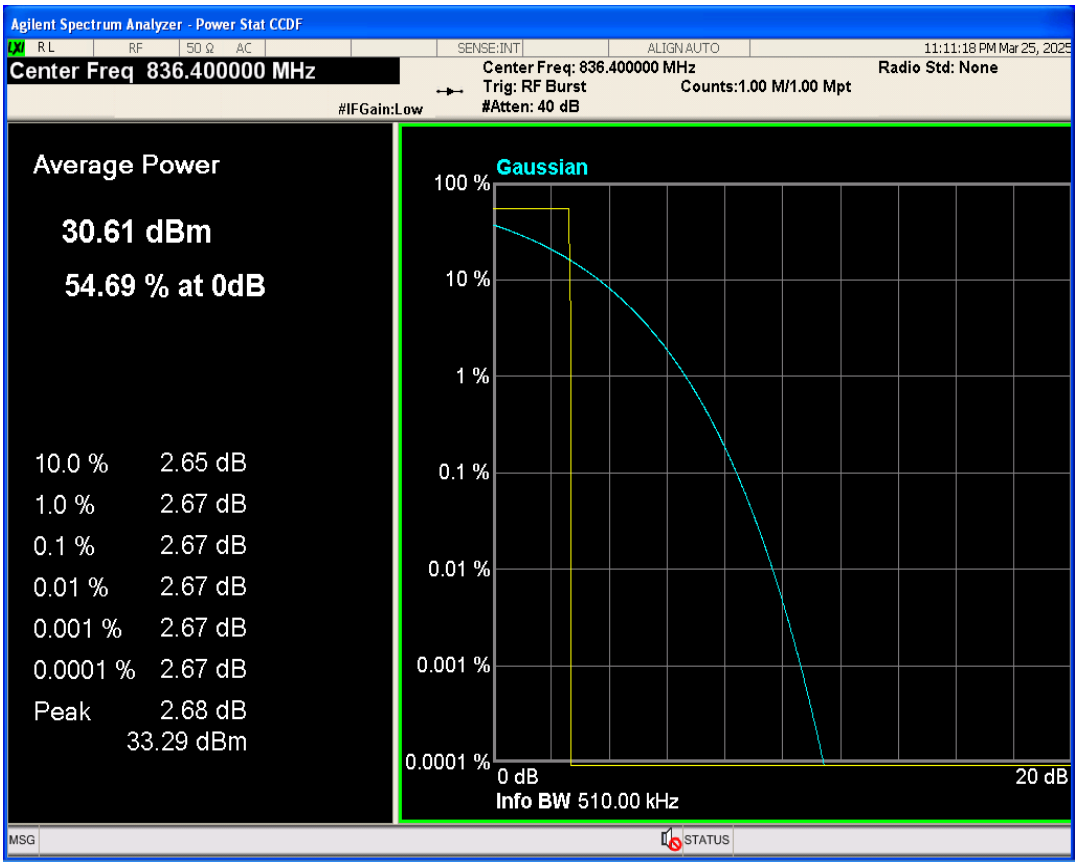
GPRS1900 Channel=661



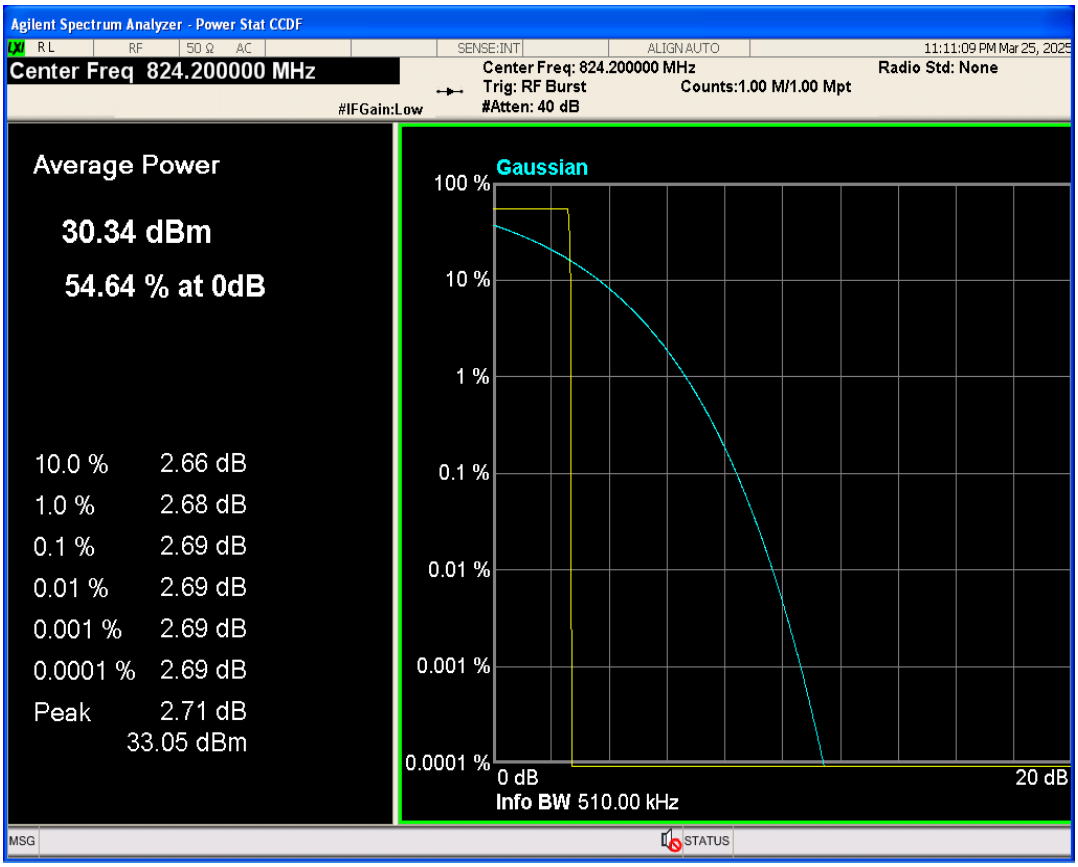
GPRS1900 Channel=810



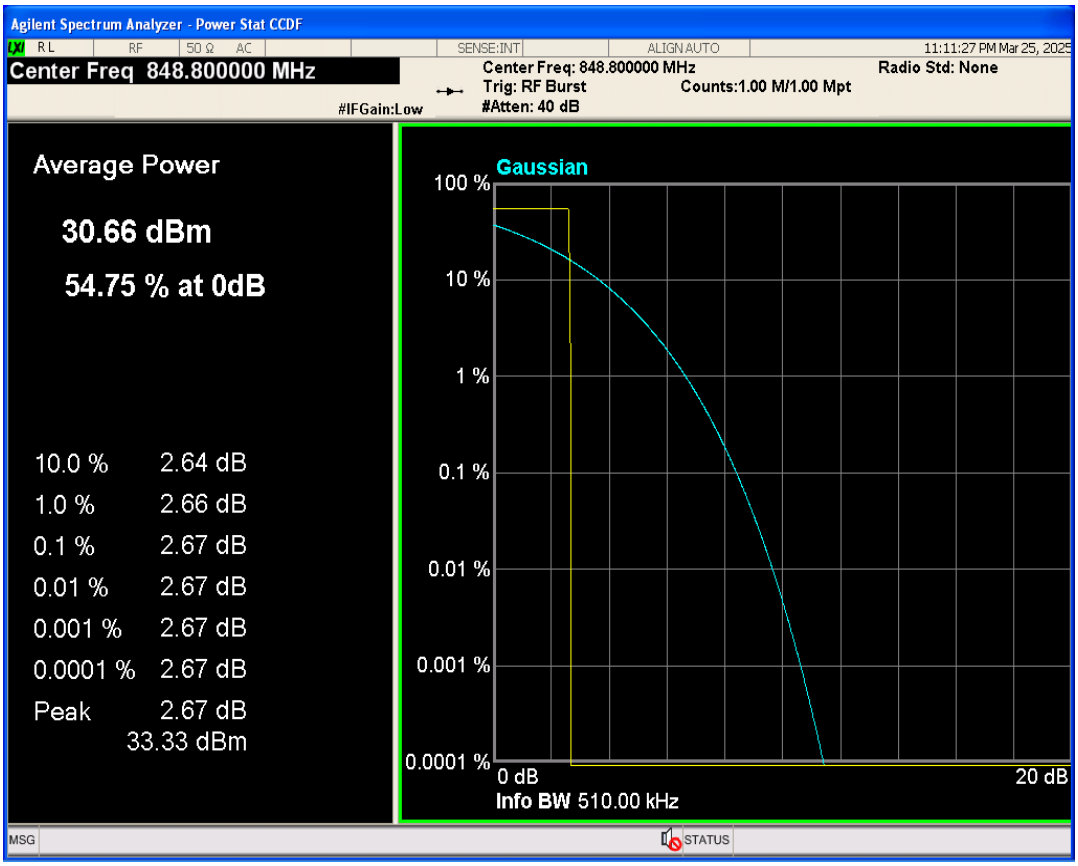
GPRS850 Channel=189



GPRS850 Channel=128



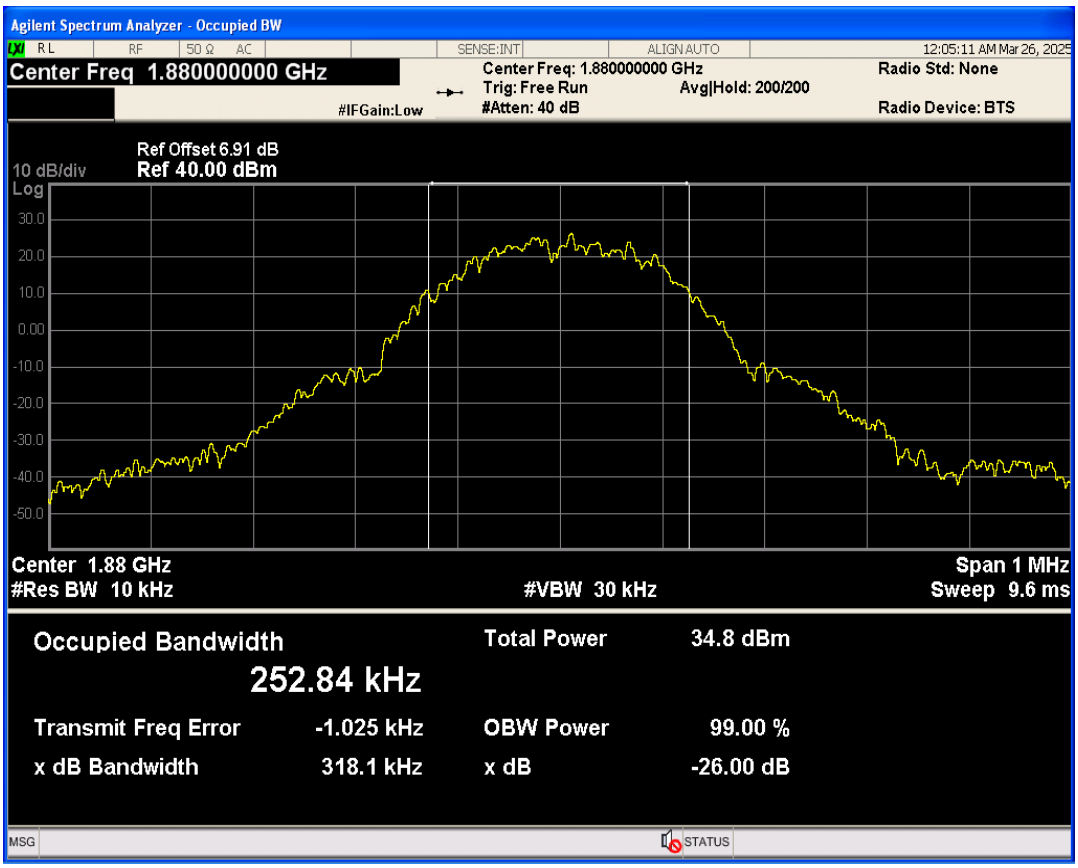
GPRS850 Channel=251



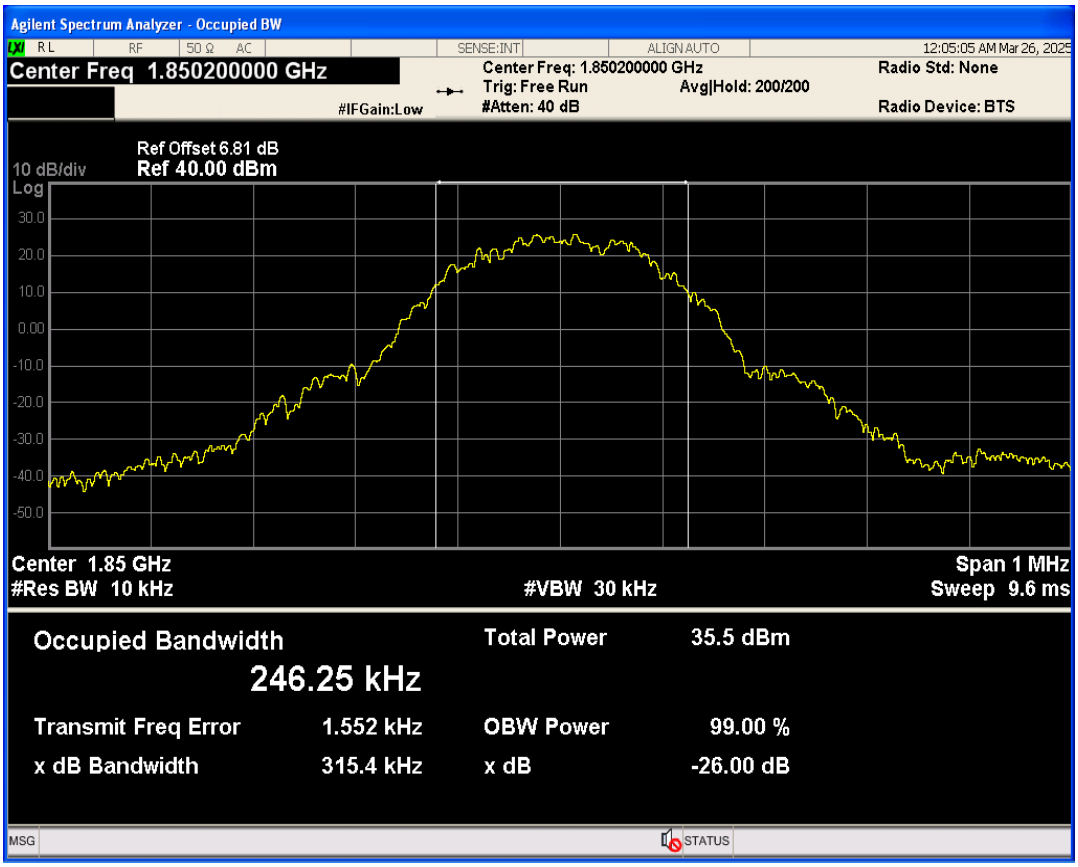
10 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GPRS1900	512	1850.2	246.247	315.421	PASS
GPRS1900	661	1880	252.838	318.124	PASS
GPRS1900	810	1909.8	245.250	317.209	PASS
GPRS850	128	824.2	241.929	311.901	PASS
GPRS850	189	836.4	247.481	316.770	PASS
GPRS850	251	848.8	245.621	300.642	PASS

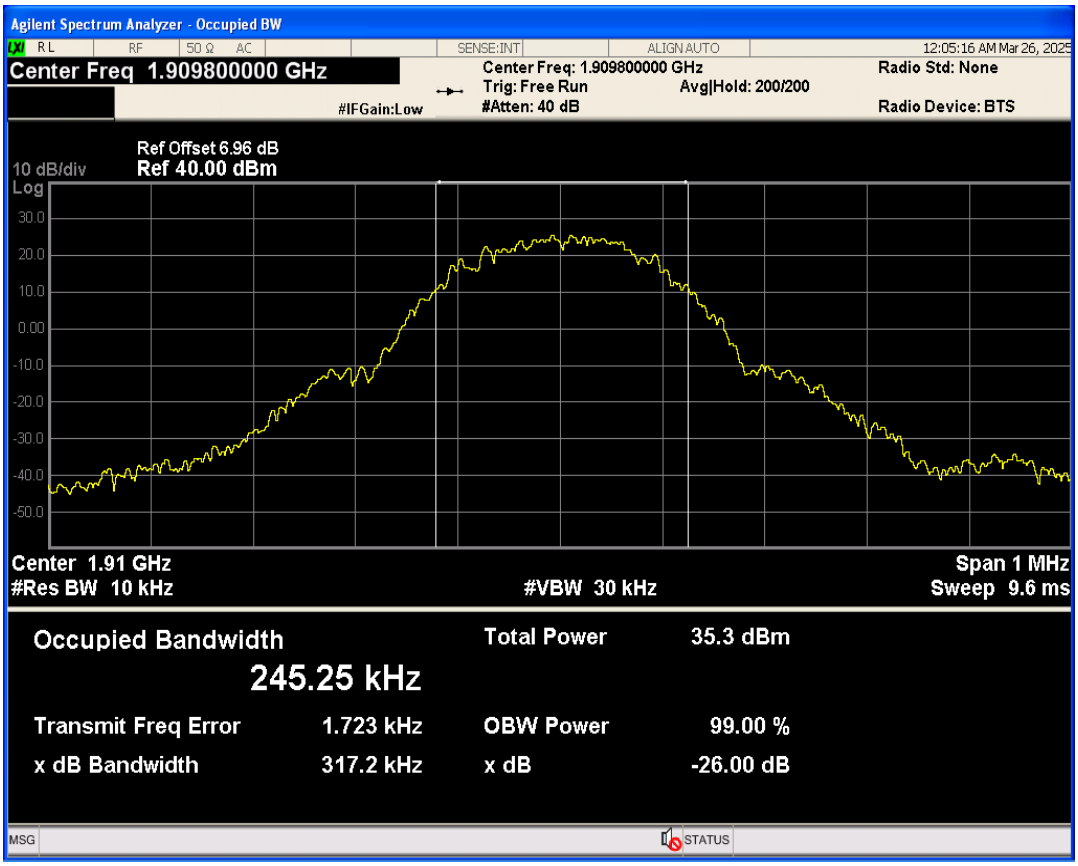
GPRS1900 Channel=661



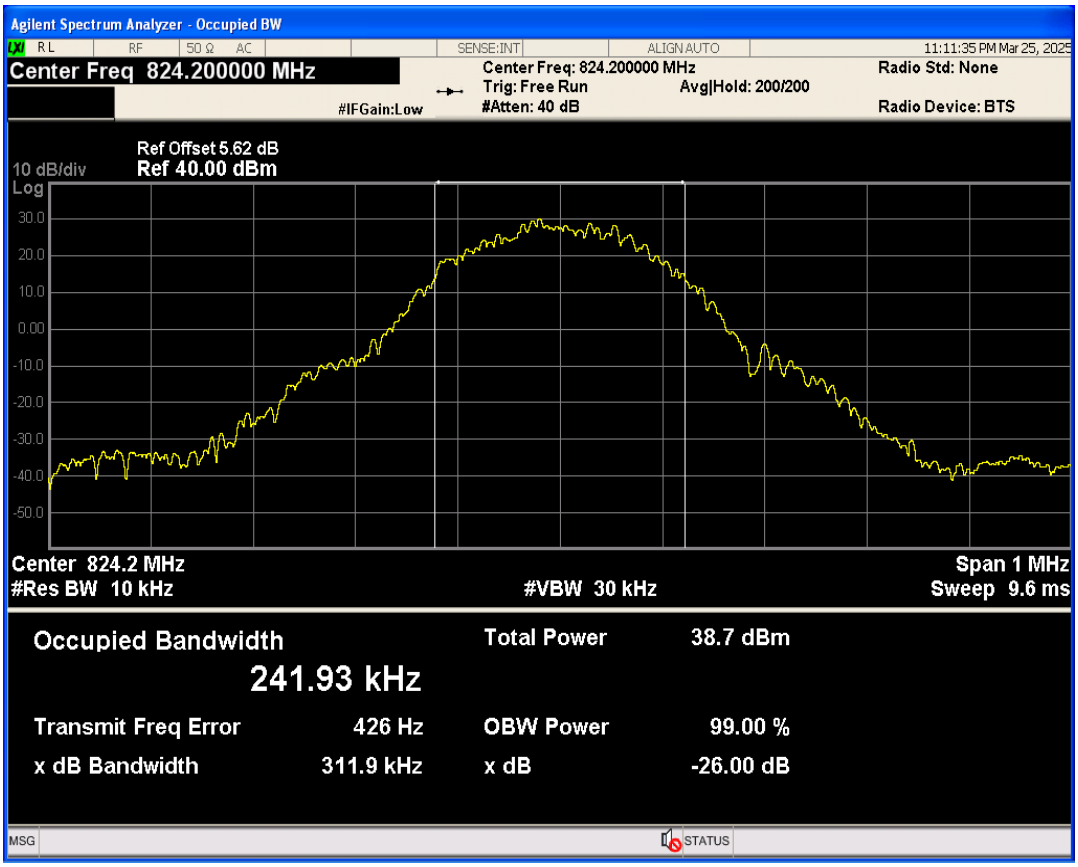
GPRS1900 Channel=512



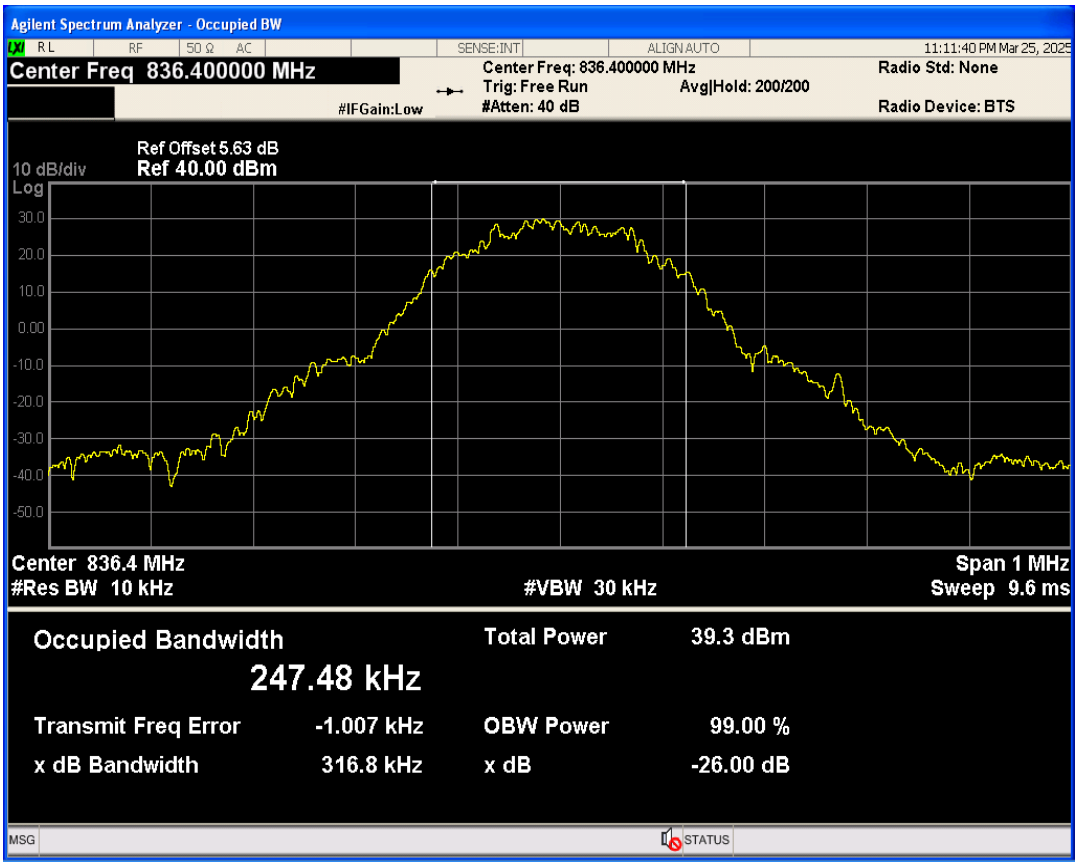
GPRS1900 Channel=810



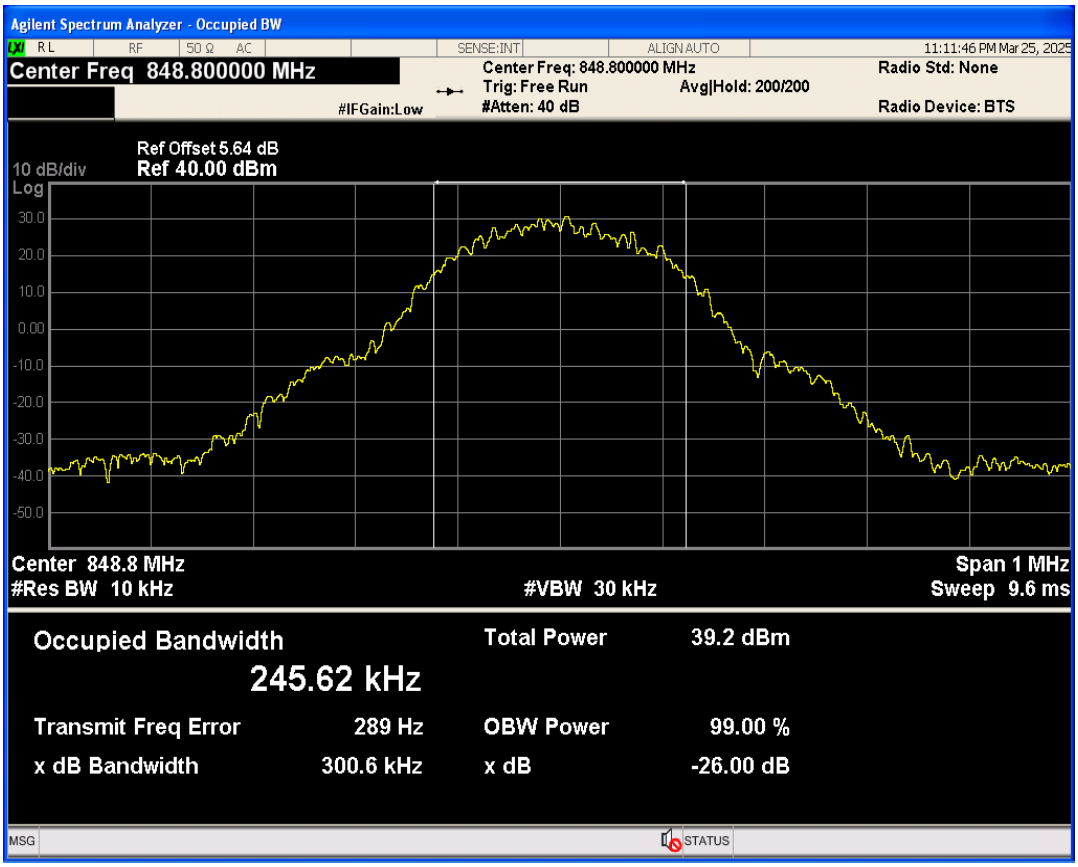
GPRS850 Channel=128



GPRS850 Channel=189



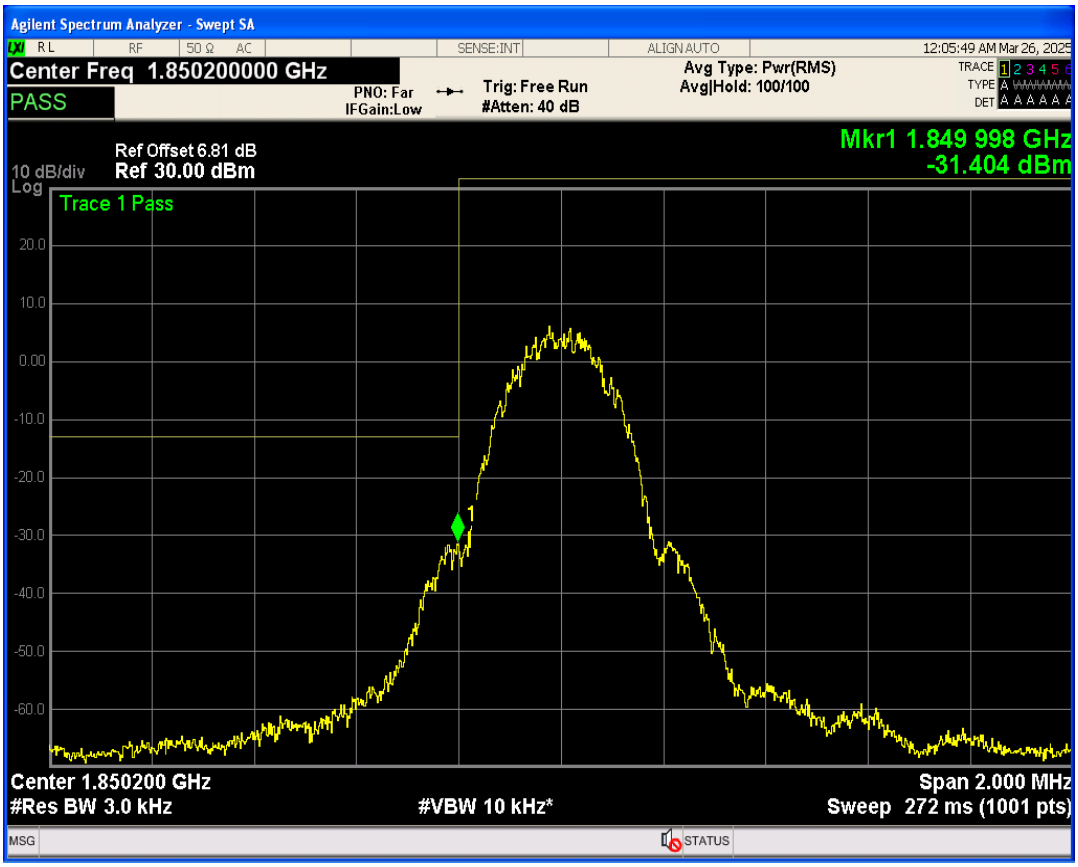
GPRS850 Channel=251



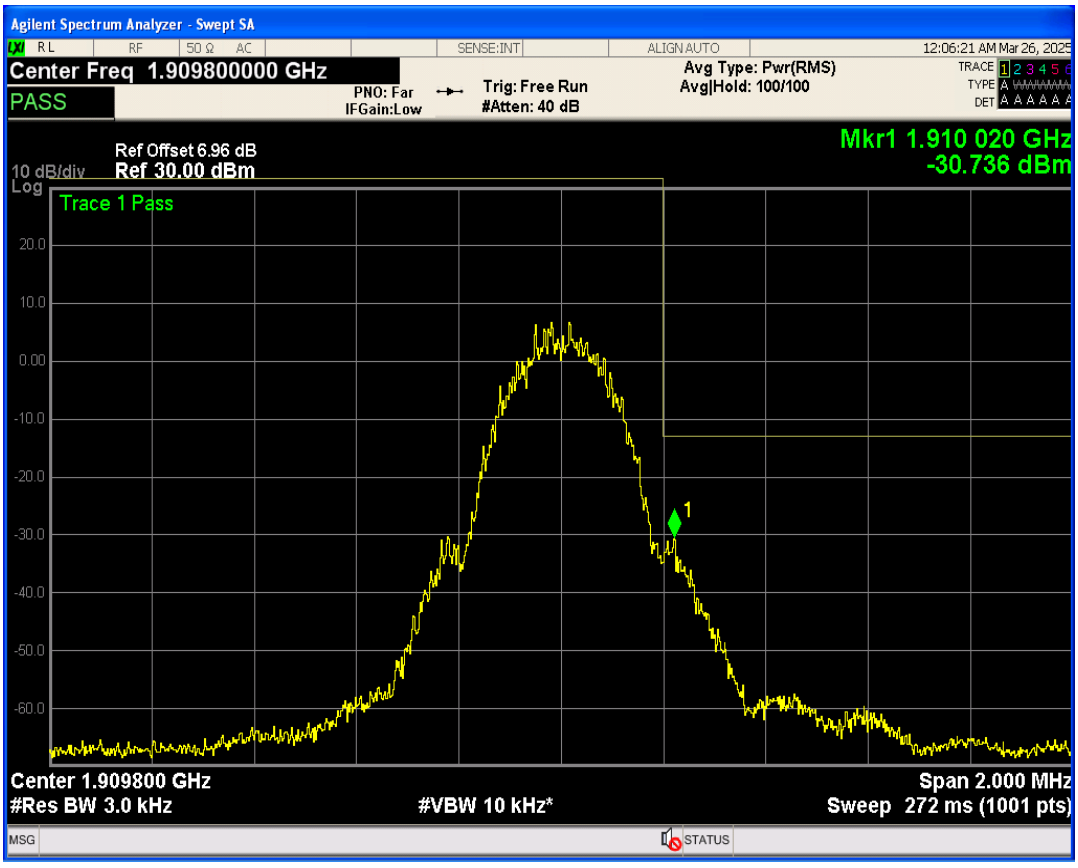
11 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	1850.00	-31.40	-13	PASS
GPRS1900	810	1909.8	1910.02	-30.73	-13	PASS
GPRS850	128	824.2	824.00	-27.52	-13	PASS
GPRS850	251	848.8	849.00	-26.07	-13	PASS

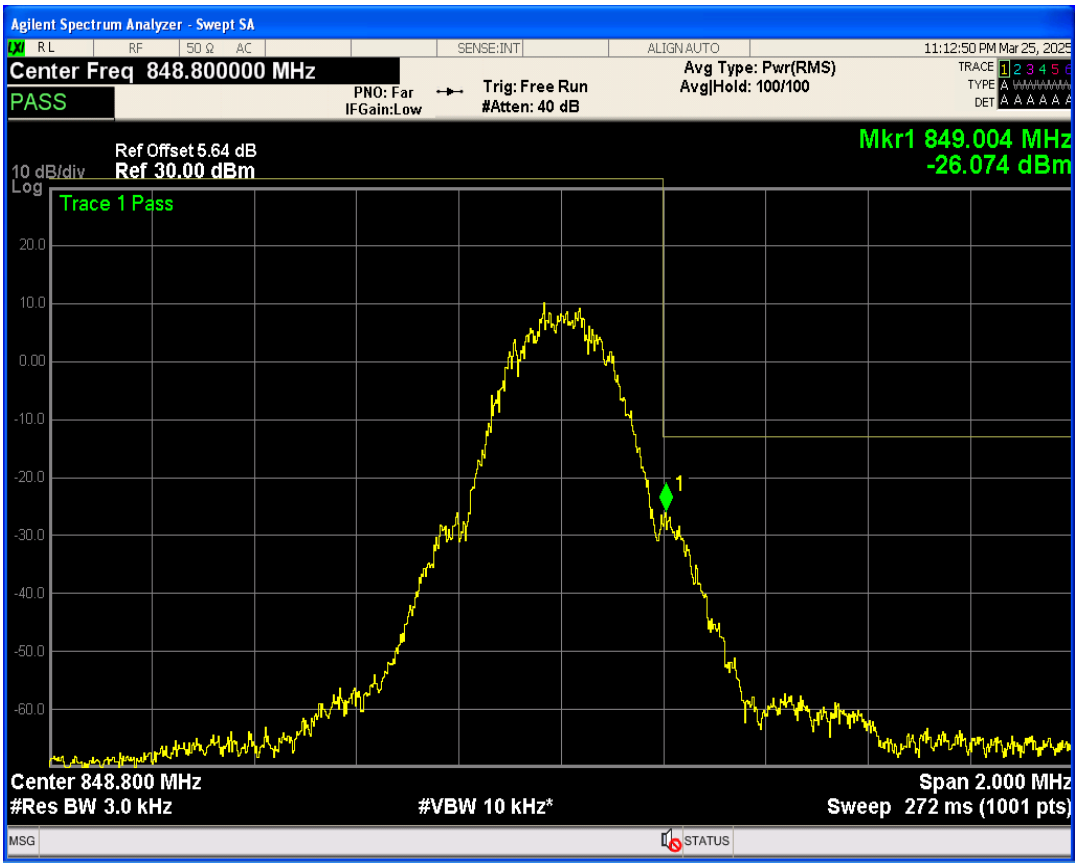
GPRS1900 Channel=512



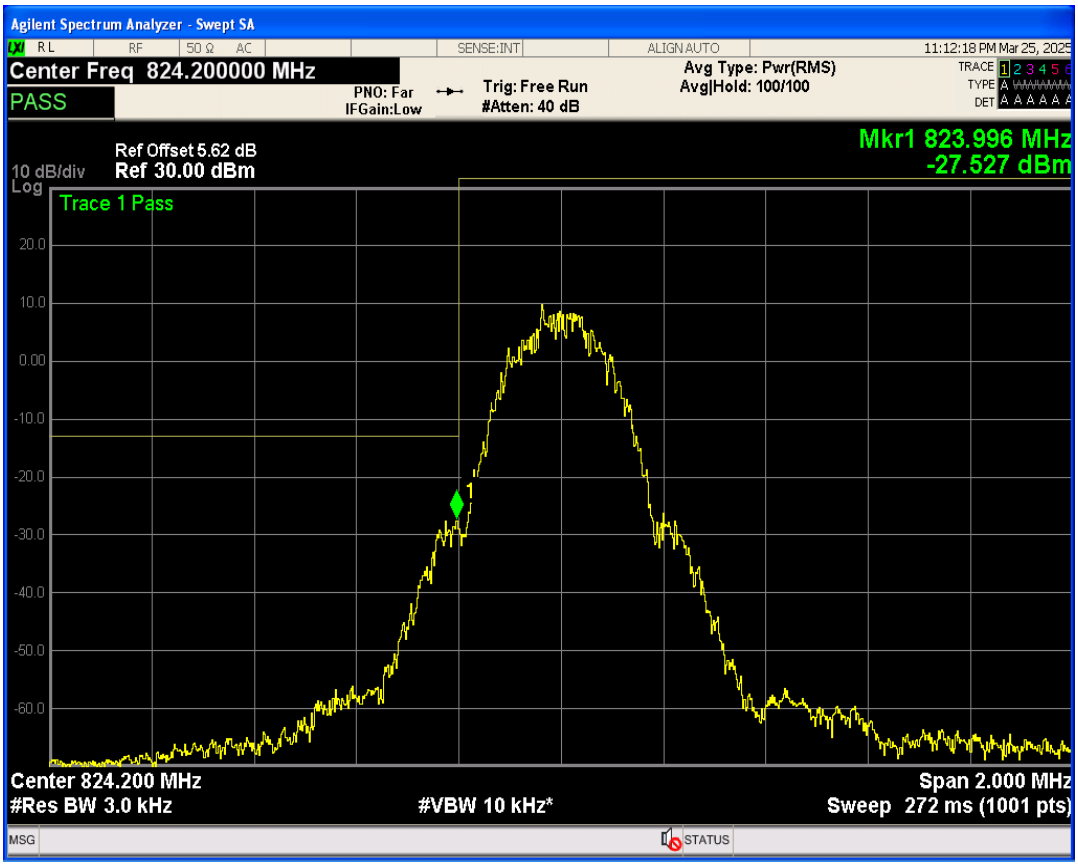
GPRS1900 Channel=810



GPRS850 Channel=251



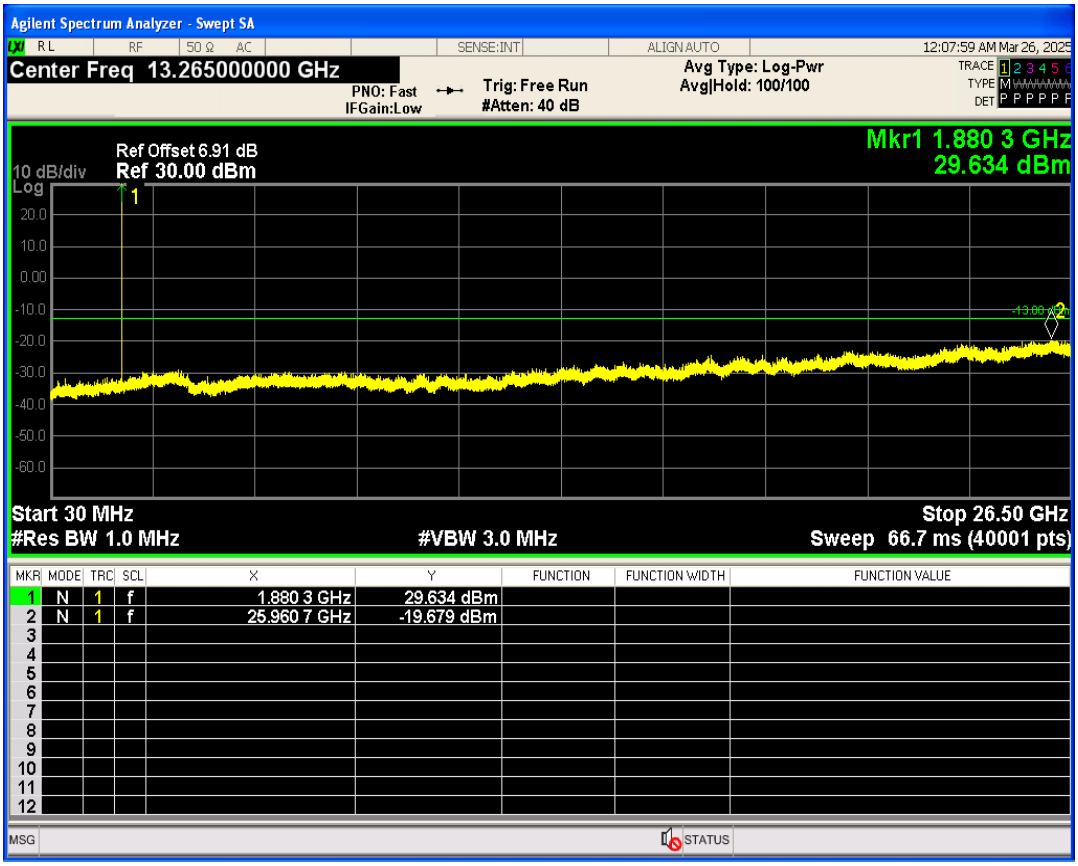
GPRS850 Channel=128



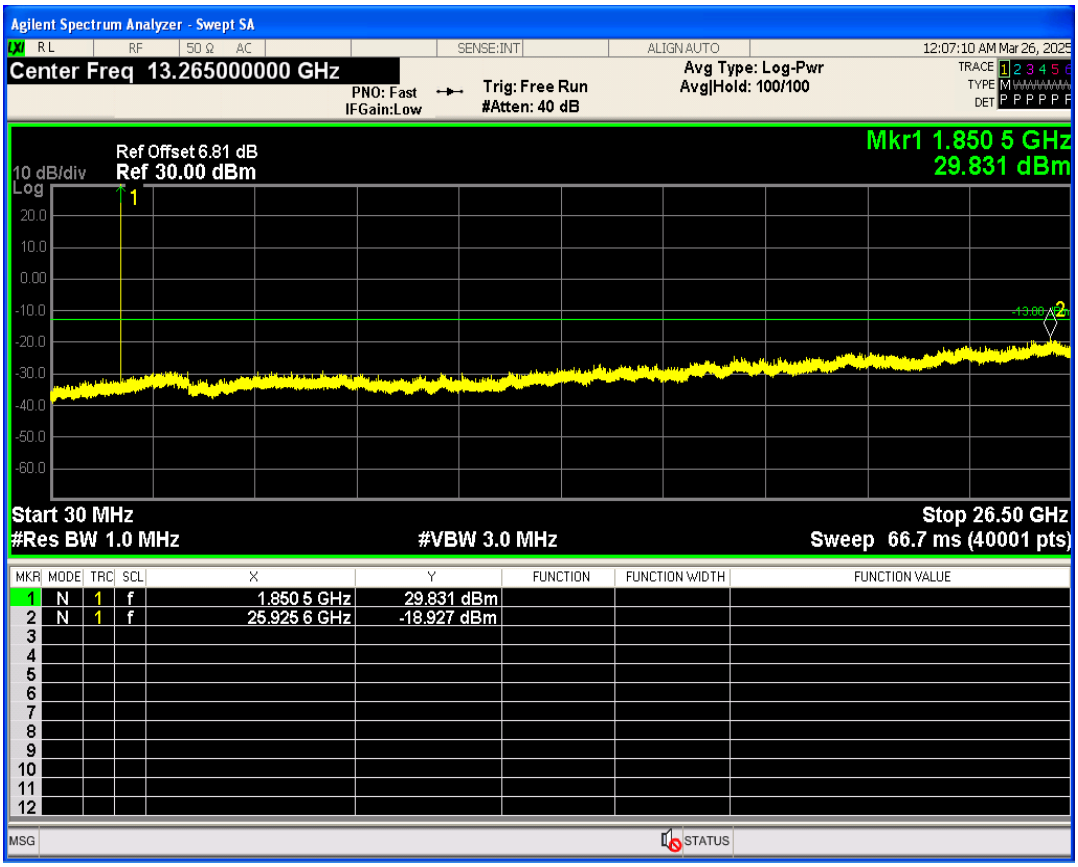
12 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	25925.60	-18.92	-13	PASS
GPRS1900	661	1880	25960.67	-19.67	-13	PASS
GPRS1900	810	1909.8	25564.95	-18.86	-13	PASS
GPRS850	128	824.2	26006.33	-19.79	-13	PASS
GPRS850	189	836.4	25989.79	-20.98	-13	PASS
GPRS850	251	848.8	25968.61	-20.28	-13	PASS

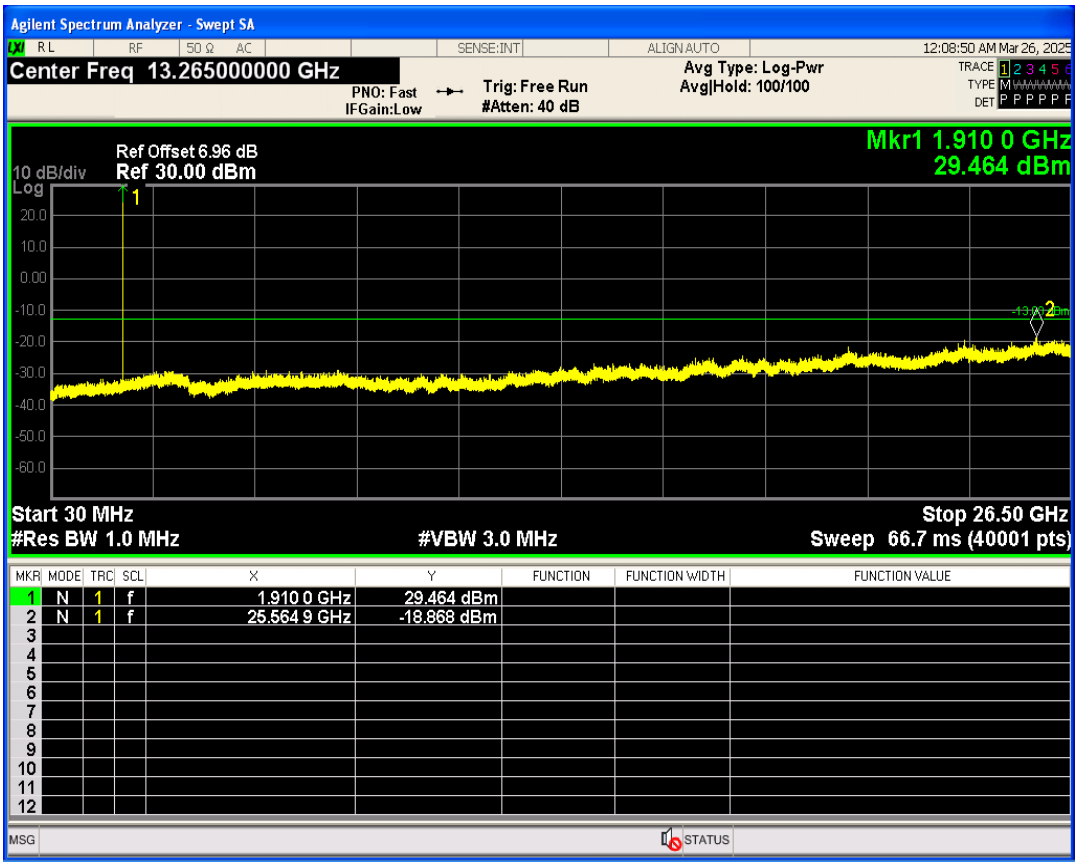
GPRS1900 Channel=661



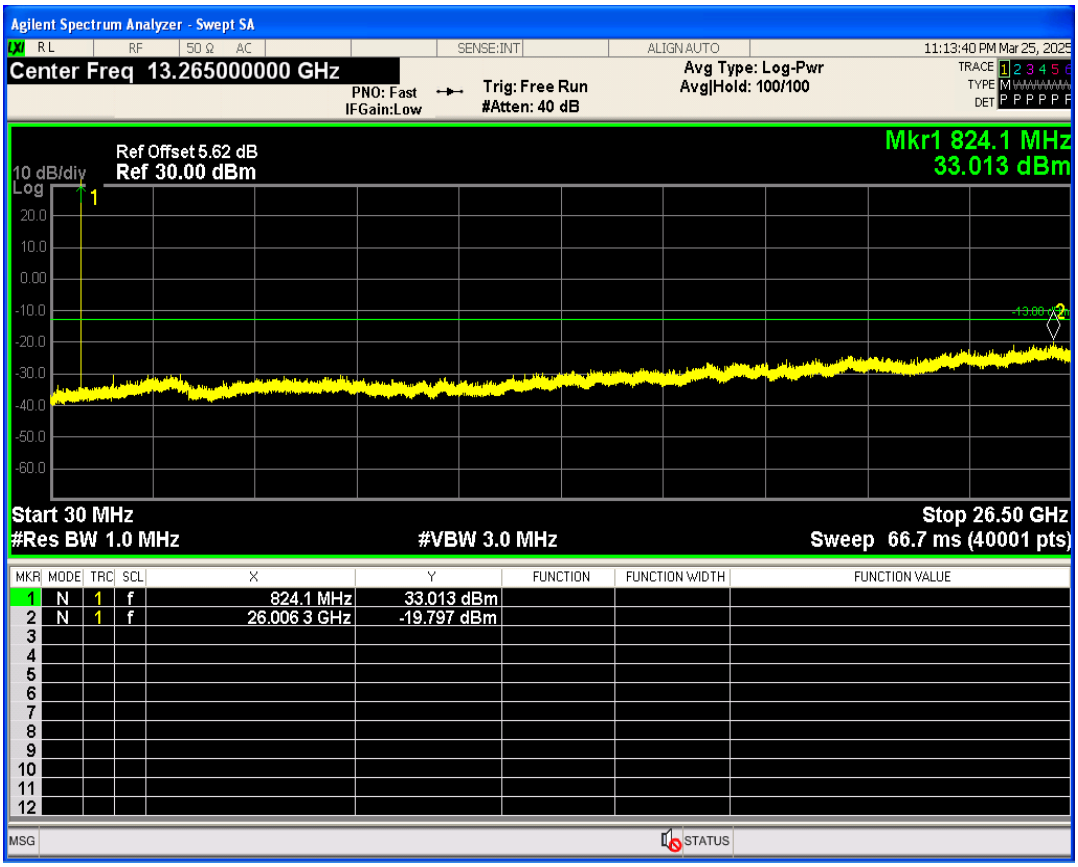
GPRS1900 Channel=512



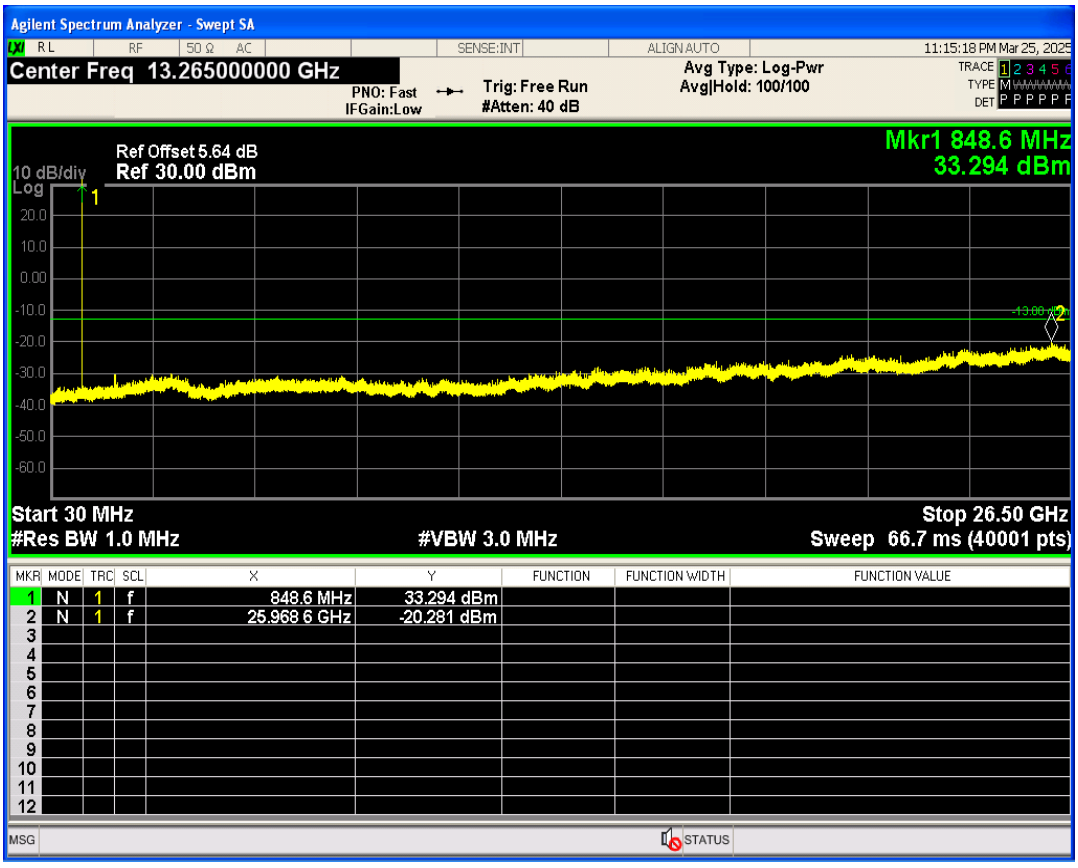
GPRS1900 Channel=810



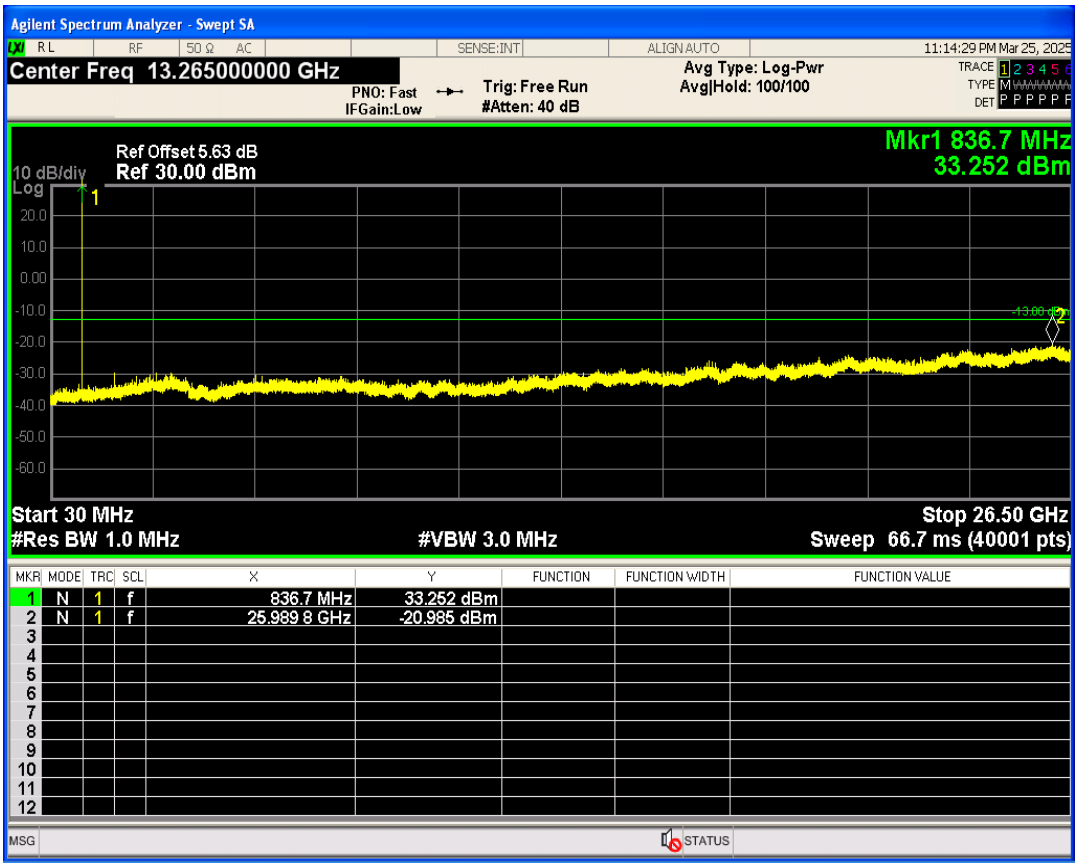
GPRS850 Channel=128



GPRS850 Channel=251



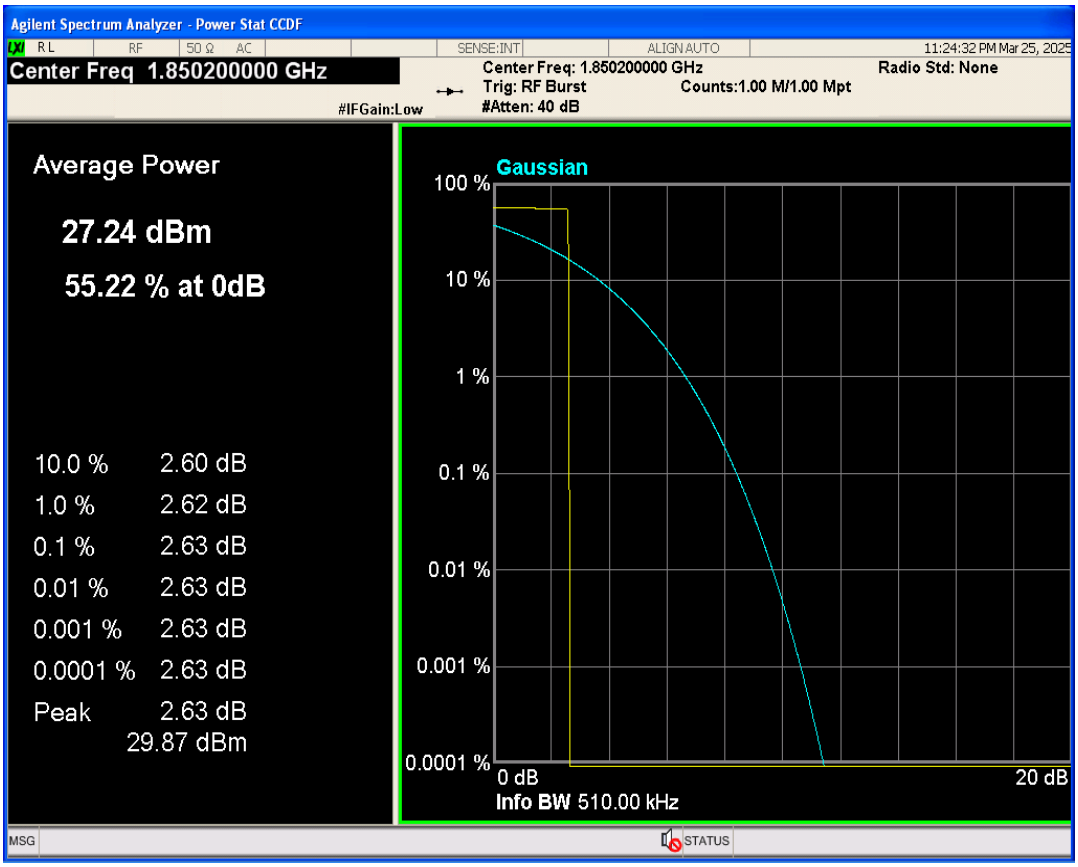
GPRS850 Channel=189



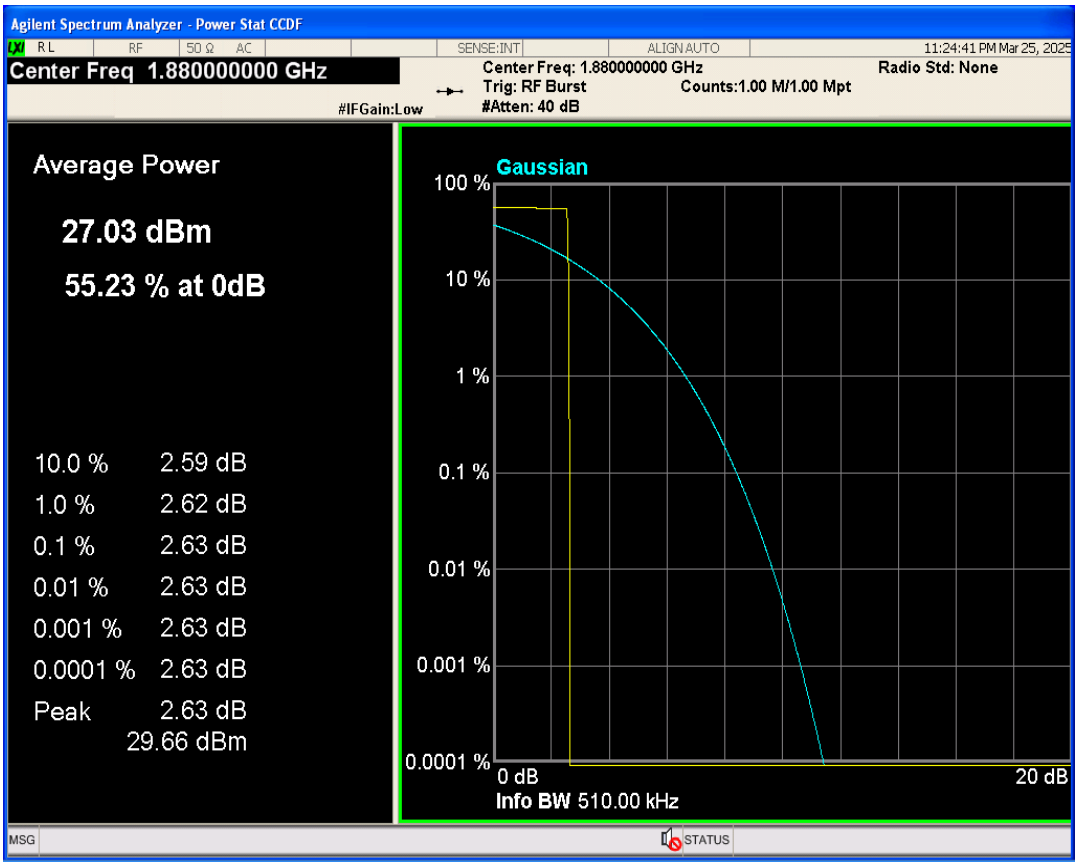
03 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM1900	512	1850.2	2.63	13	PASS
GSM1900	661	1880	2.63	13	PASS
GSM1900	810	1909.8	2.63	13	PASS
GSM850	128	824.2	2.63	13	PASS
GSM850	189	836.4	2.64	13	PASS
GSM850	251	848.8	2.63	13	PASS

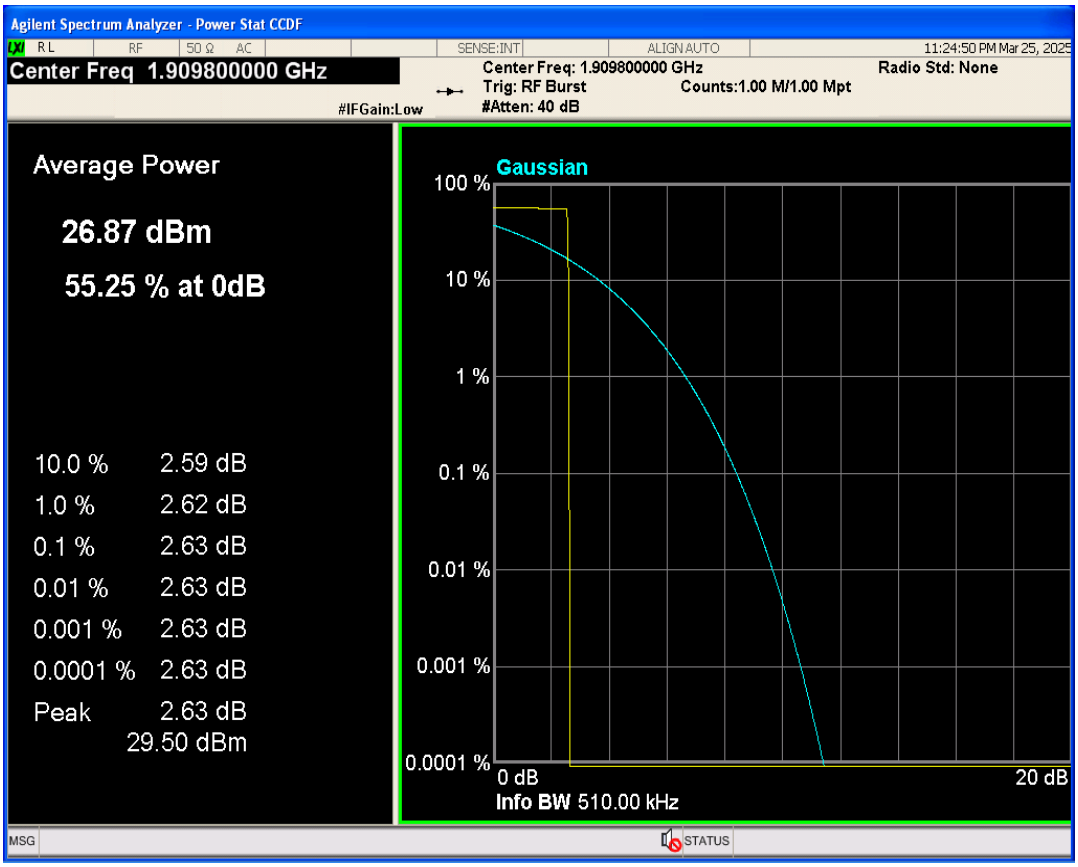
GSM1900 Channel=512



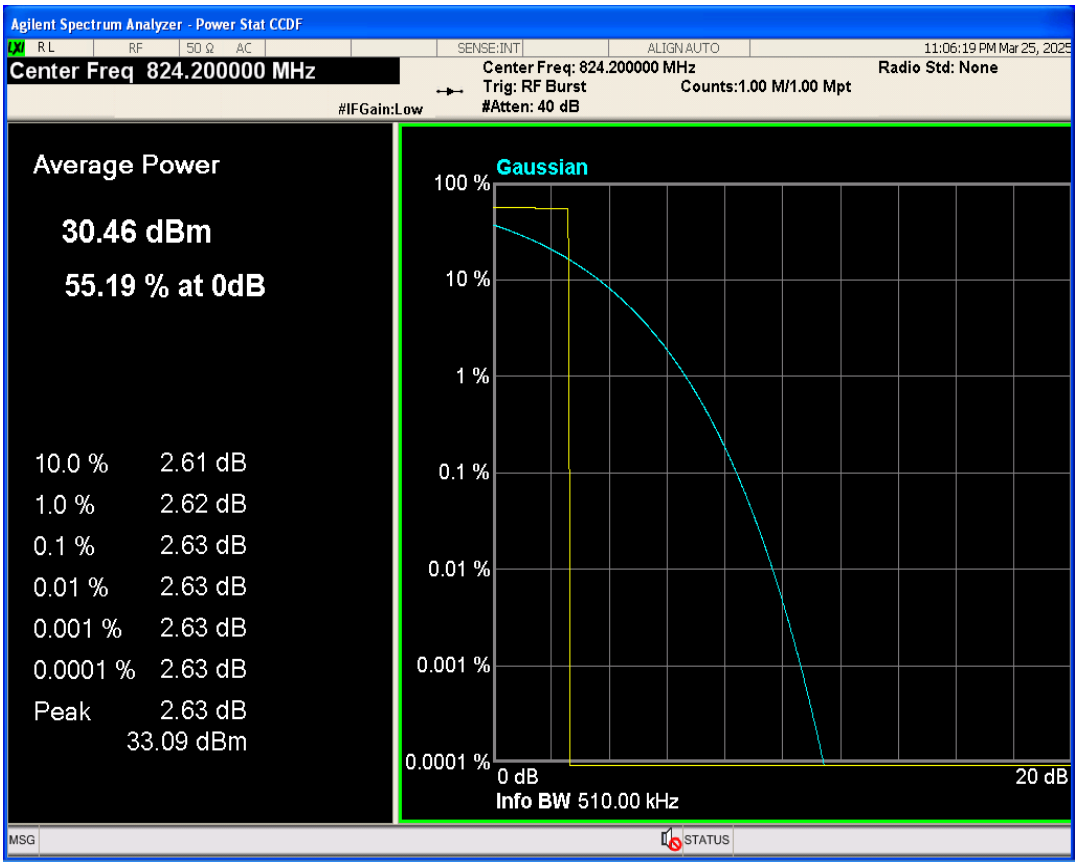
GSM1900 Channel=661



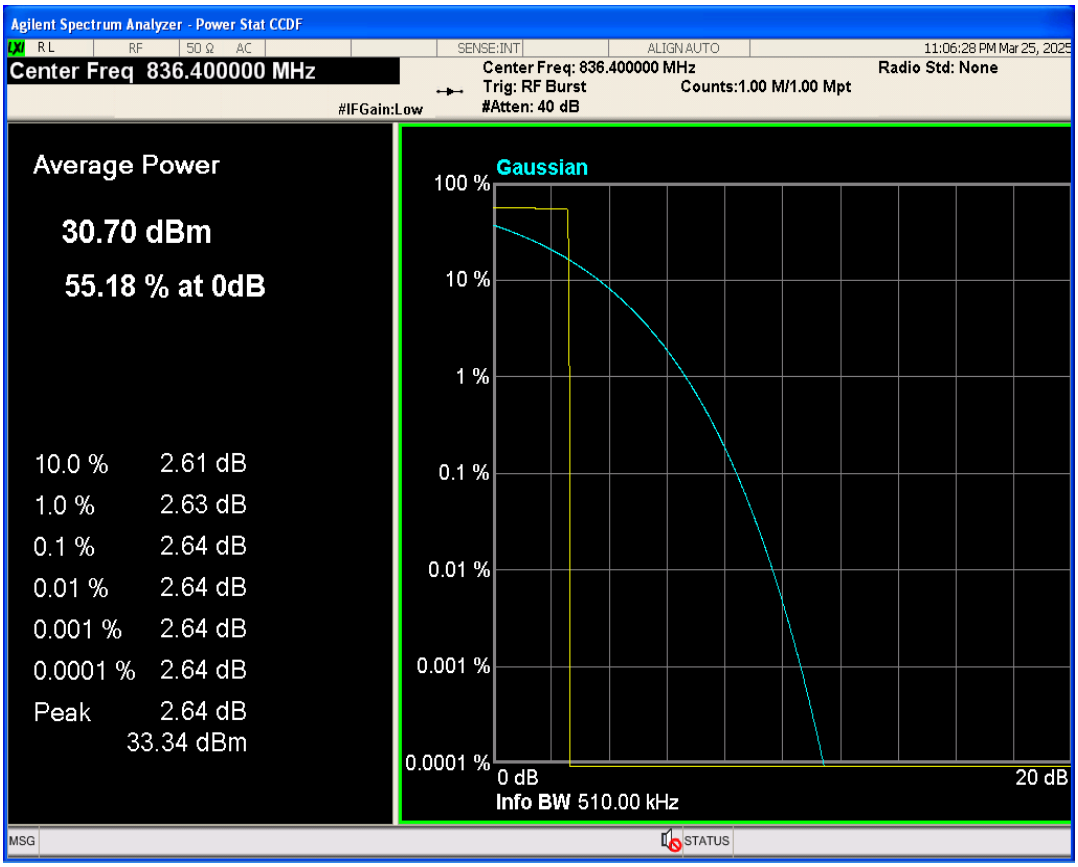
GSM1900 Channel=810



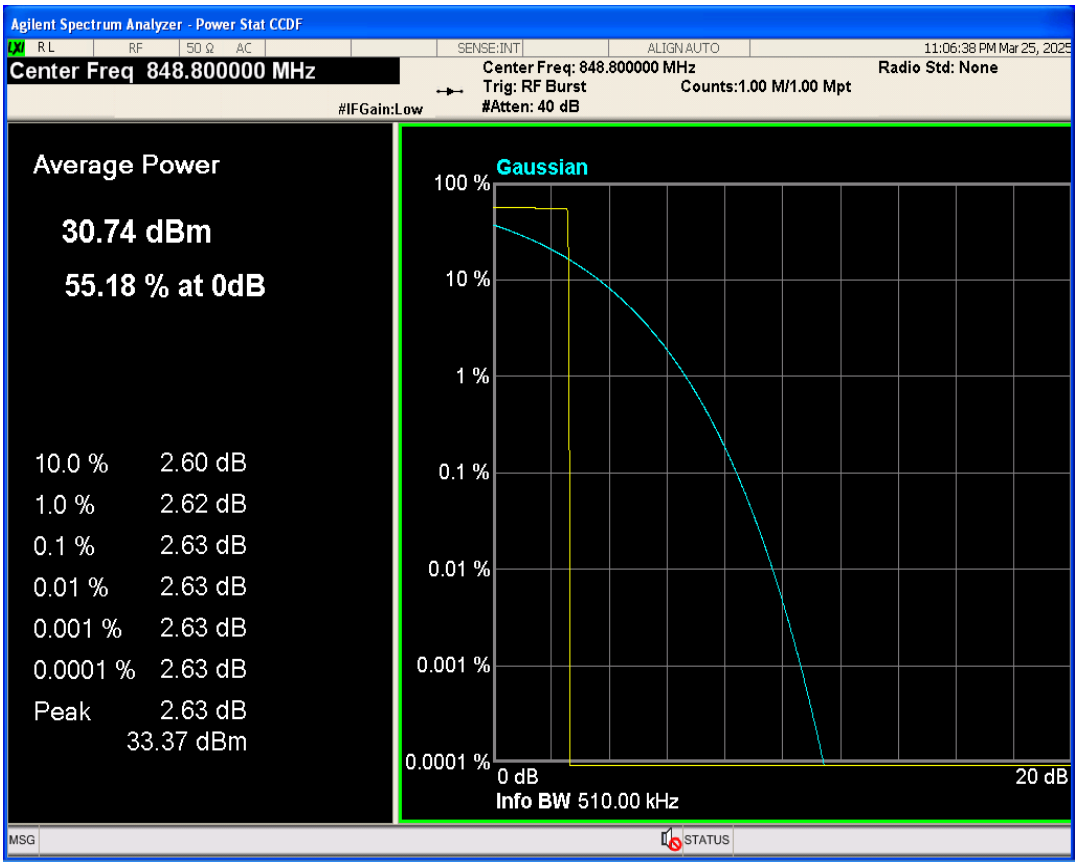
GSM850 Channel=128



GSM850 Channel=189



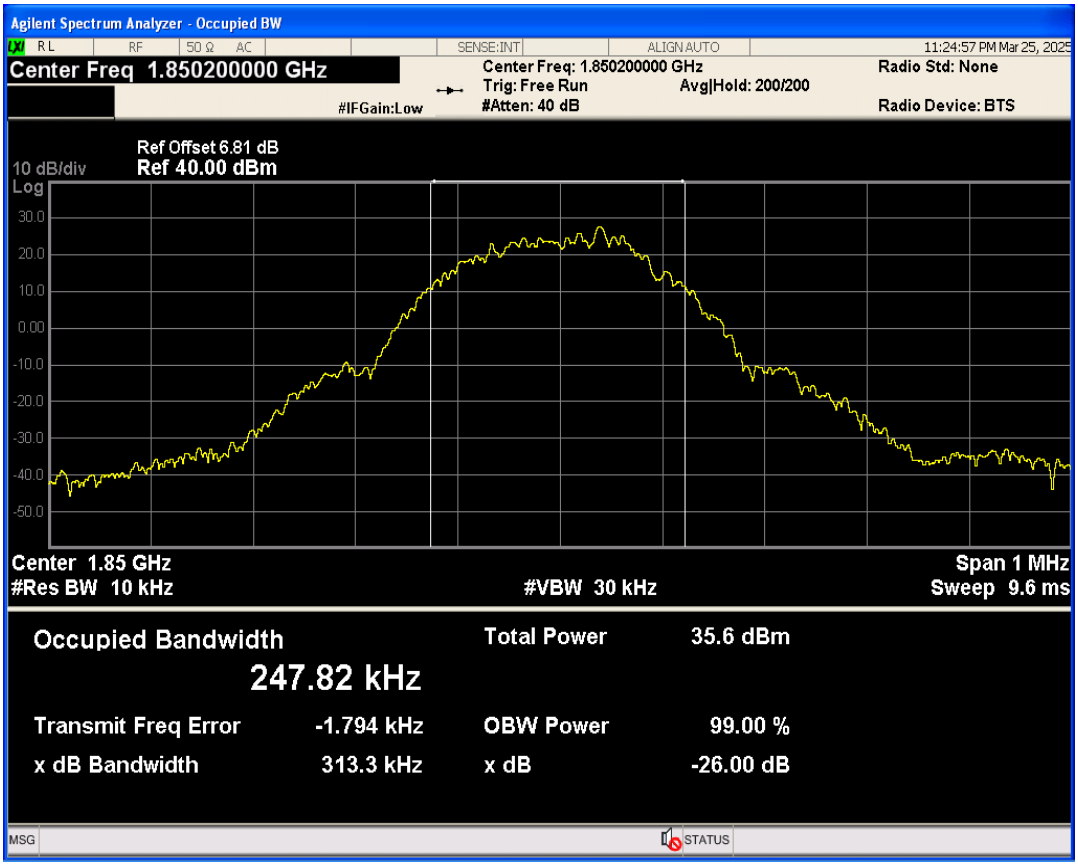
GSM850 Channel=251



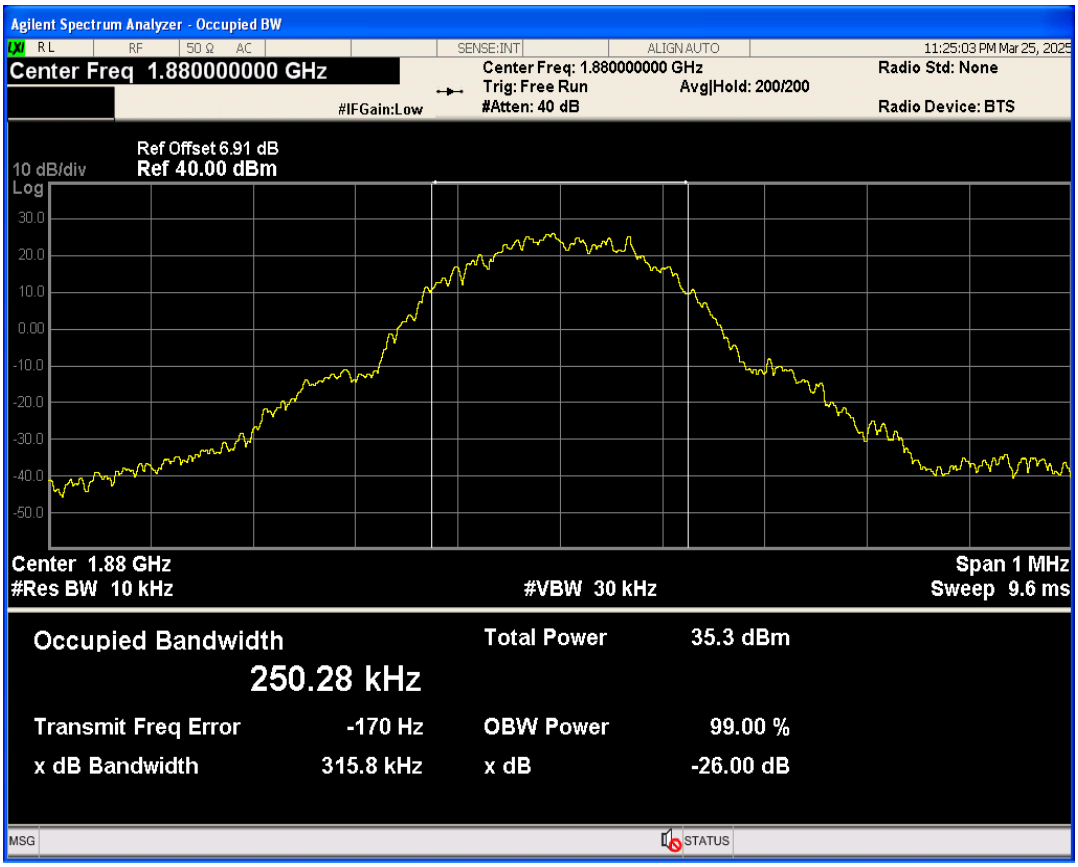
04 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM1900	512	1850.2	247.823	313.262	PASS
GSM1900	661	1880	250.284	315.828	PASS
GSM1900	810	1909.8	246.349	319.808	PASS
GSM850	128	824.2	244.028	315.862	PASS
GSM850	189	836.4	251.936	318.404	PASS
GSM850	251	848.8	252.190	317.378	PASS

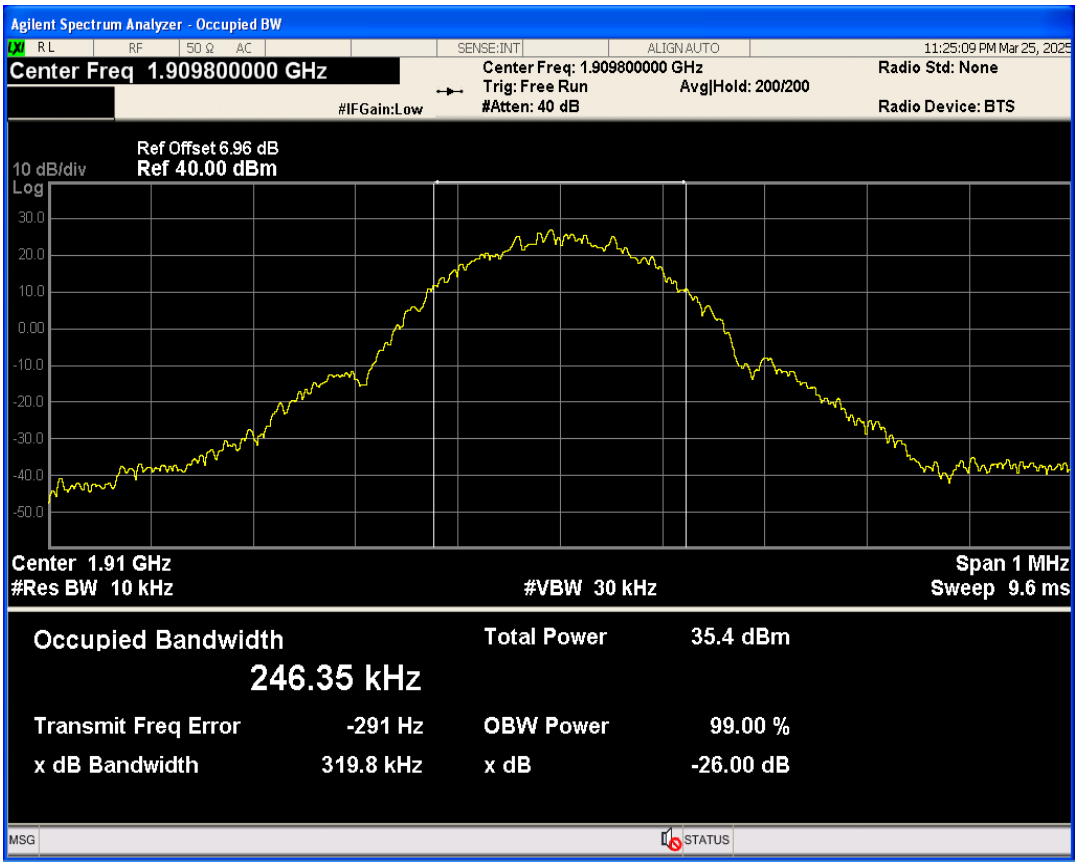
GSM1900 Channel=512



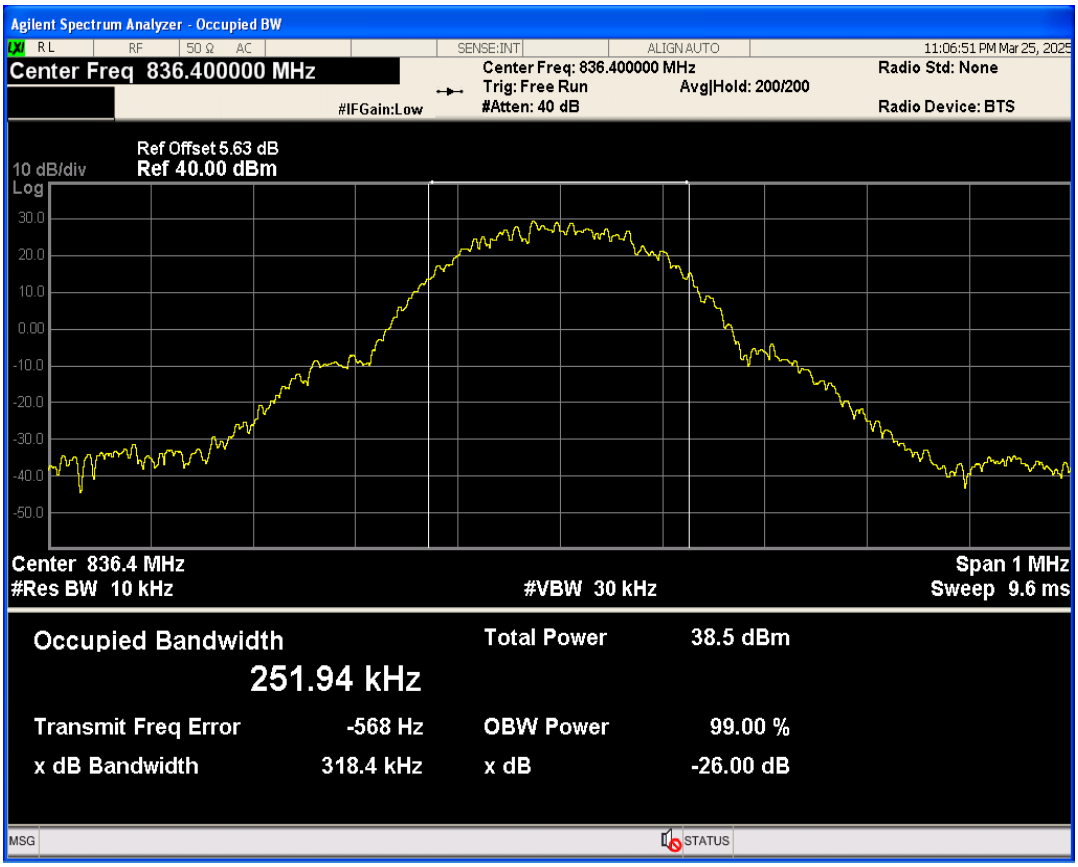
GSM1900 Channel=661



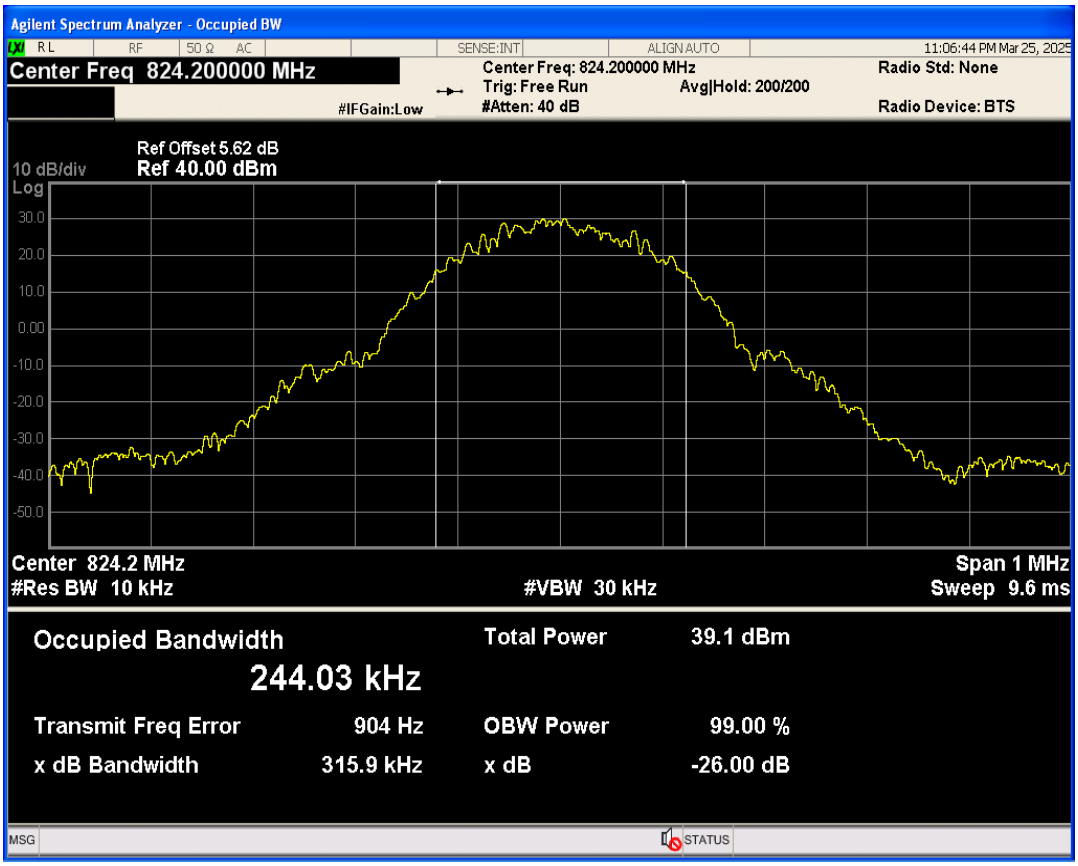
GSM1900 Channel=810



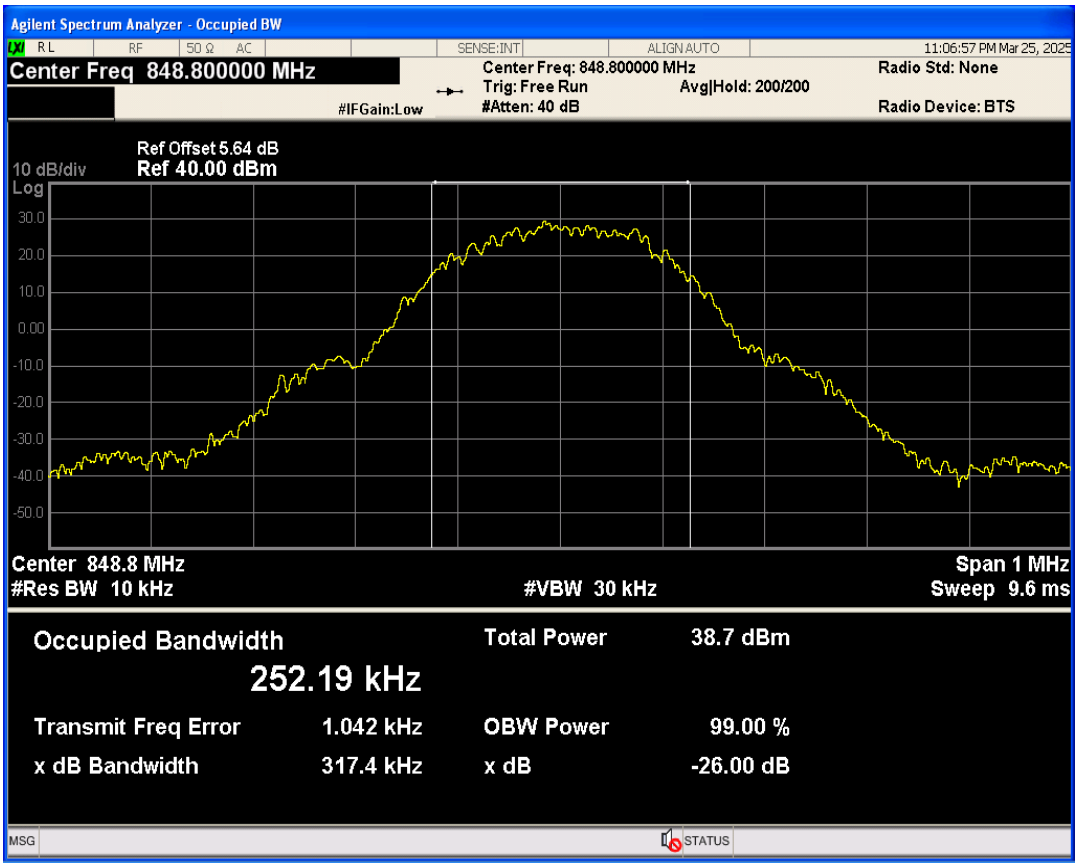
GSM850 Channel=189



GSM850 Channel=128



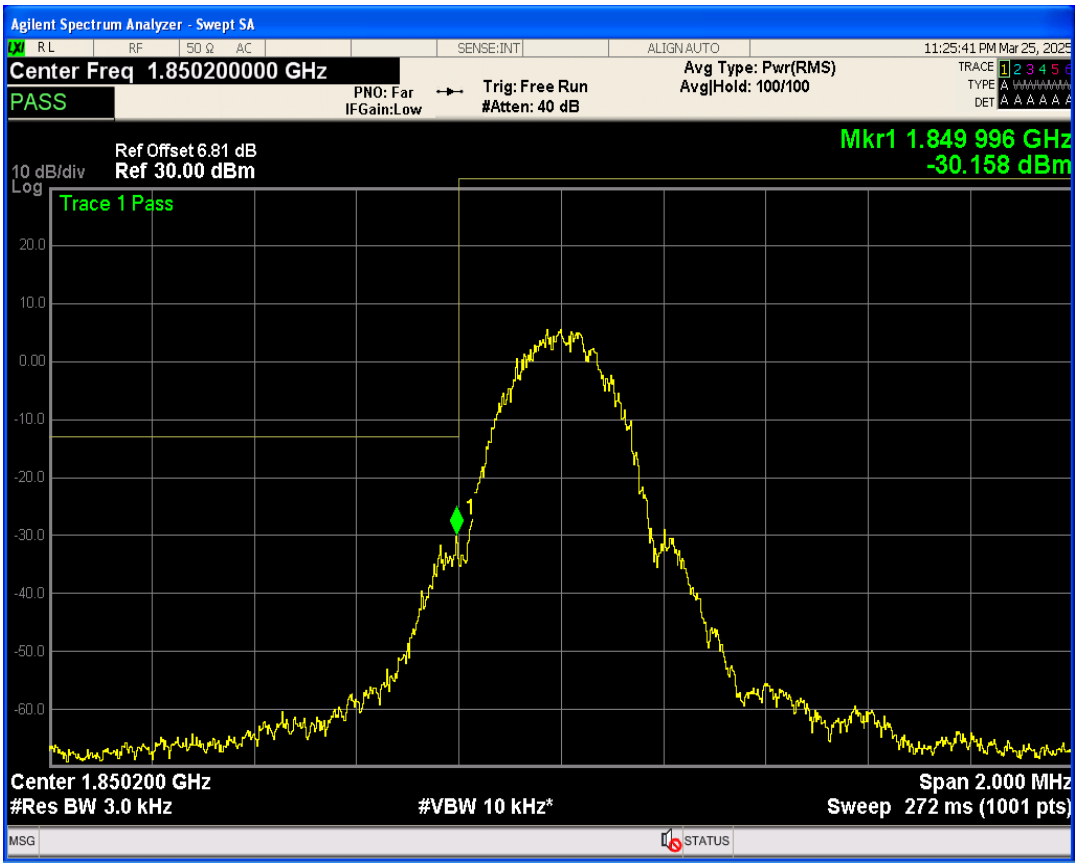
GSM850 Channel=251



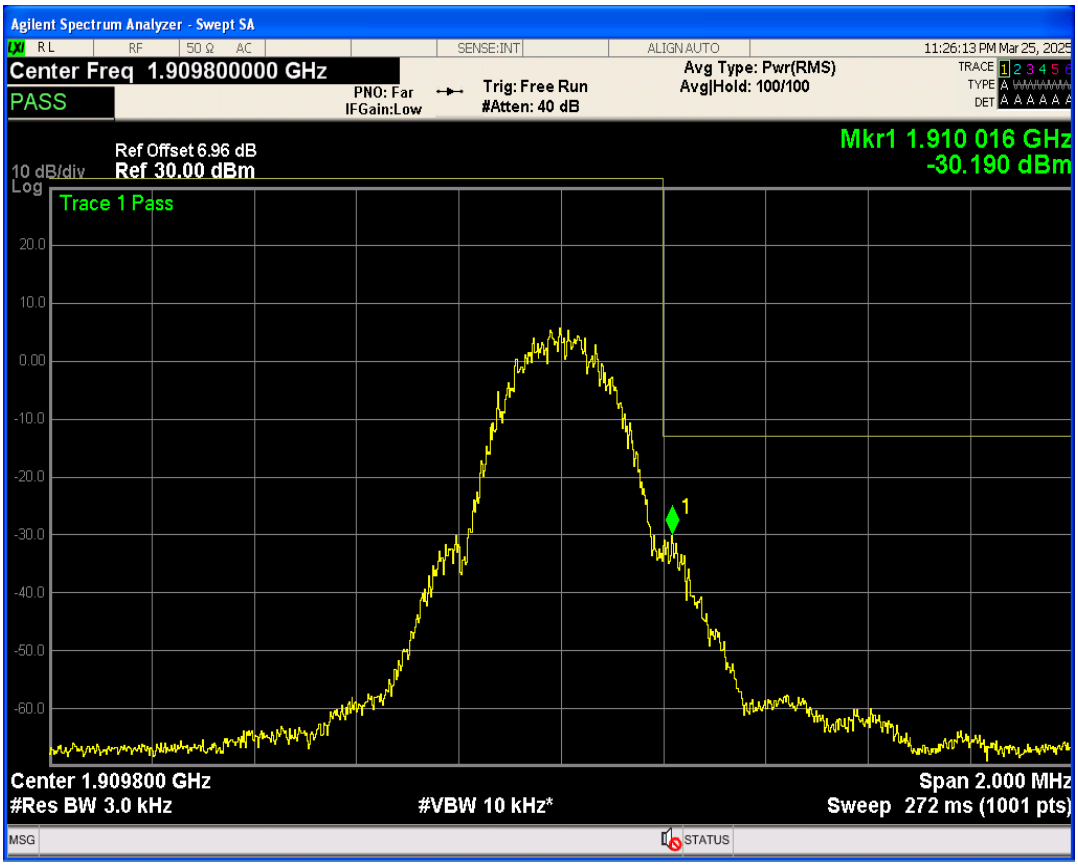
05 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM1900	512	1850.2	1850.00	-30.15	-13	PASS
GSM1900	810	1909.8	1910.02	-30.18	-13	PASS
GSM850	128	824.2	824.00	-28.11	-13	PASS
GSM850	251	848.8	849.02	-24.41	-13	PASS

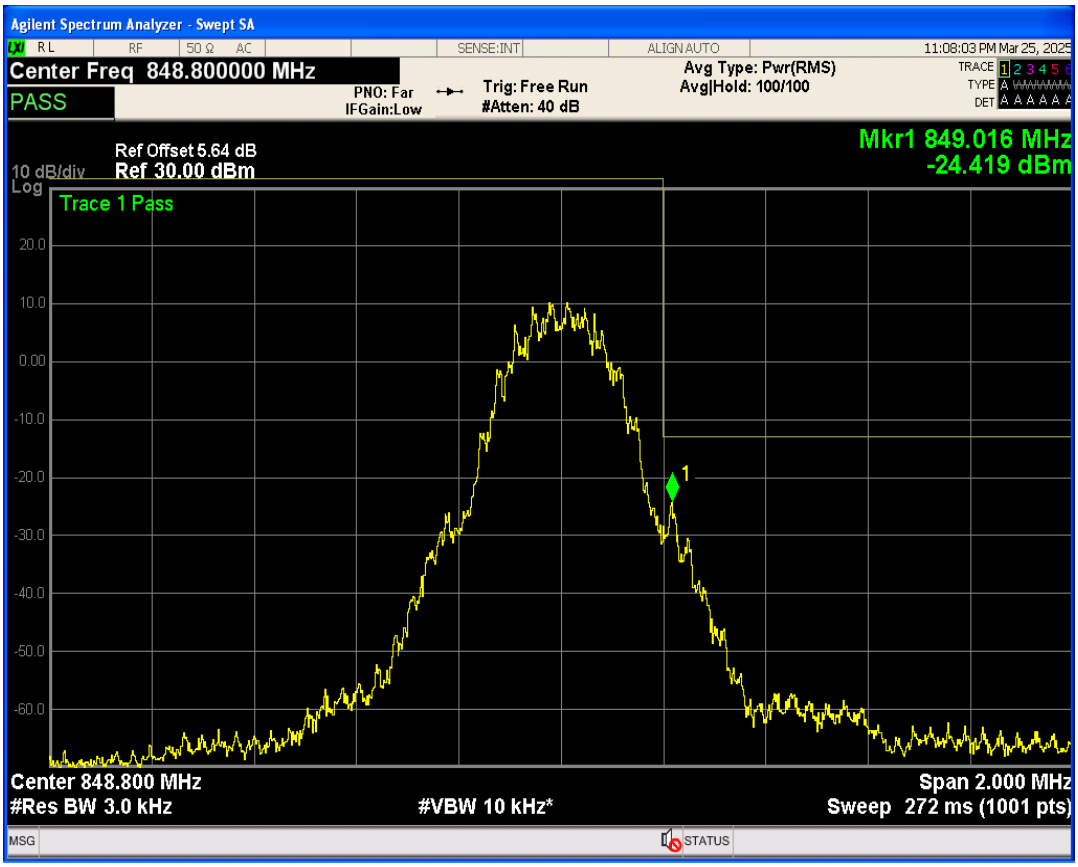
GSM1900 Channel=512



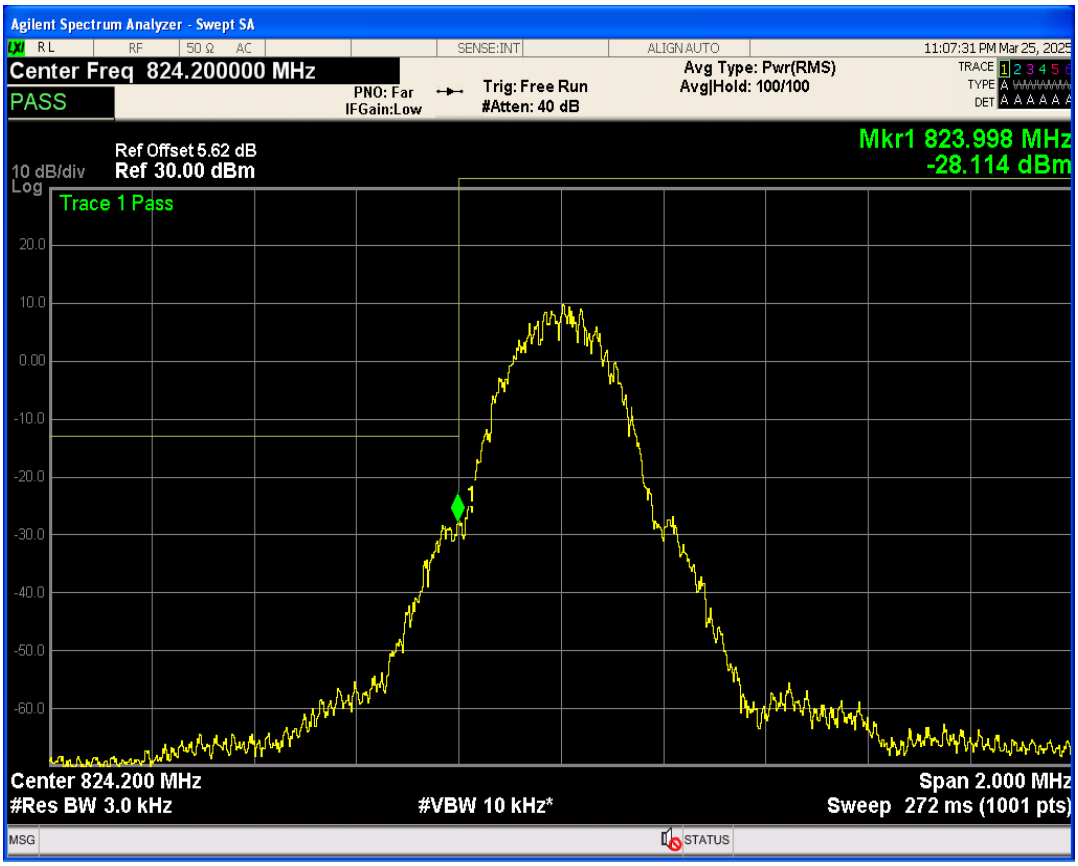
GSM1900 Channel=810



GSM850 Channel=251



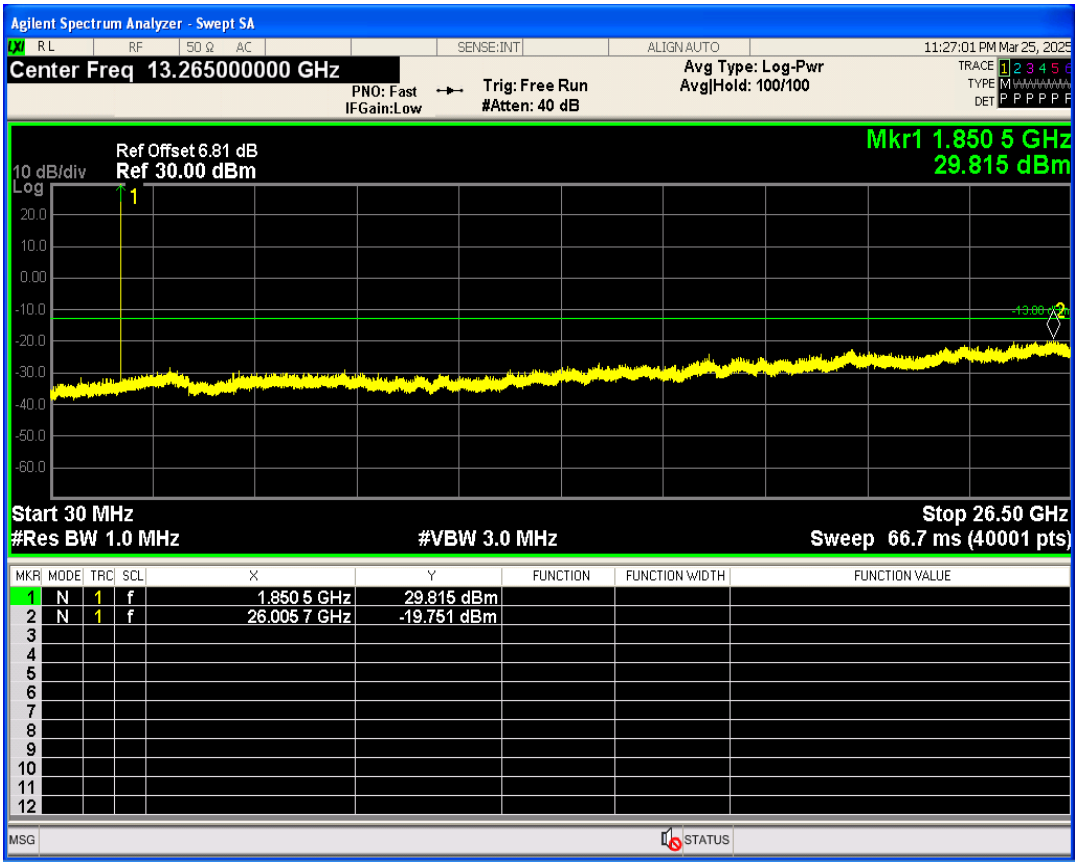
GSM850 Channel=128



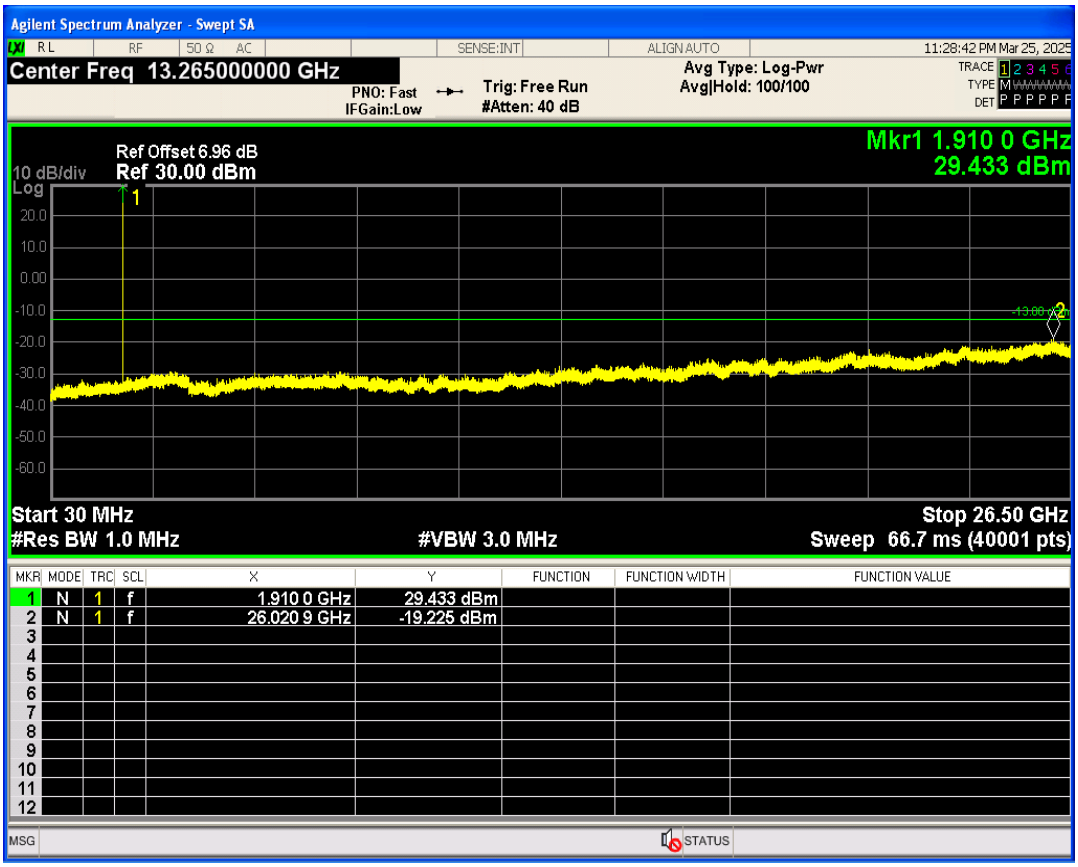
06 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM1900	512	1850.2	26005.67	-19.75	-13	PASS
GSM1900	661	1880	26088.39	-19.05	-13	PASS
GSM1900	810	1909.8	26020.89	-19.22	-13	PASS
GSM850	128	824.2	25512.01	-20.50	-13	PASS
GSM850	189	836.4	25795.90	-20.68	-13	PASS
GSM850	251	848.8	26058.61	-20.15	-13	PASS

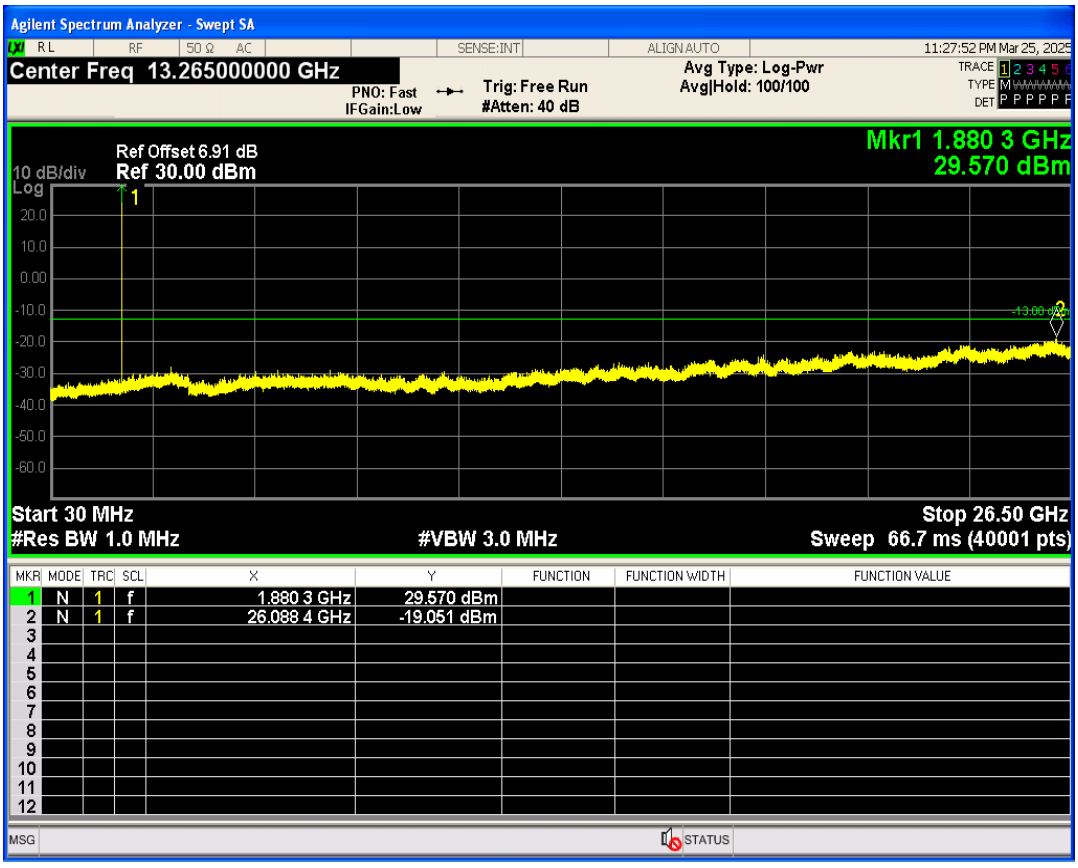
GSM1900 Channel=512



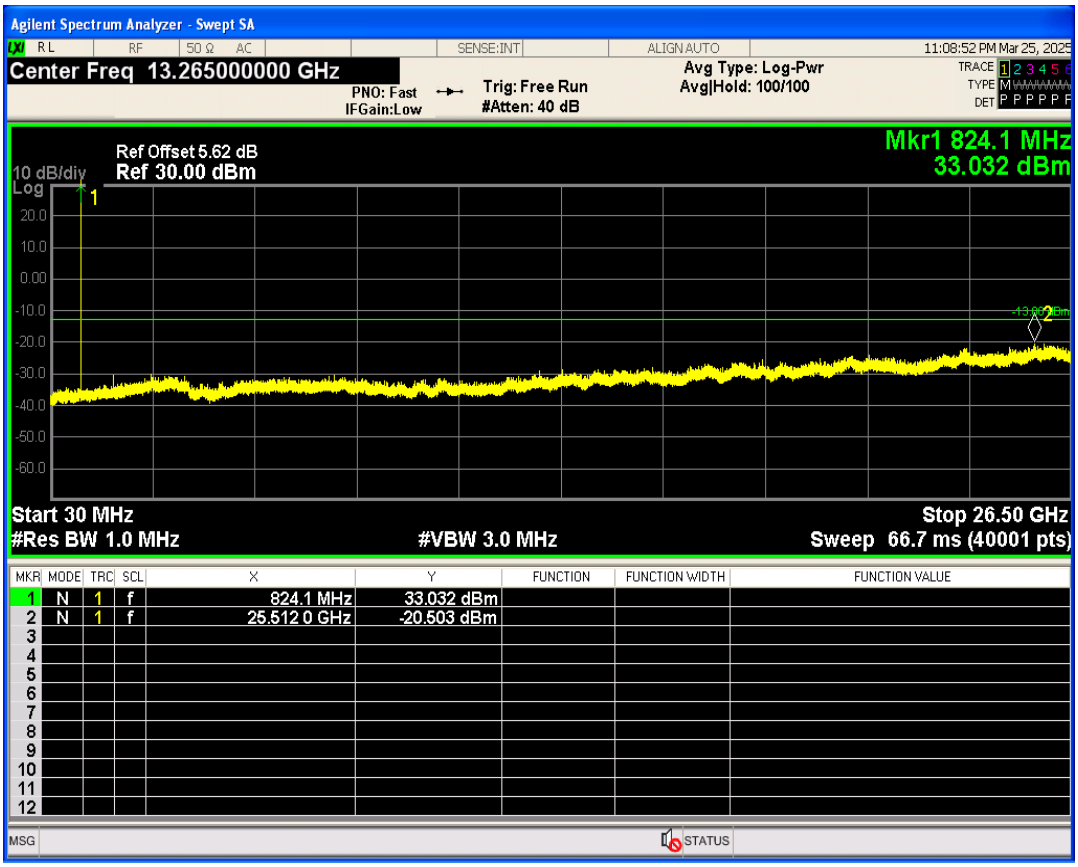
GSM1900 Channel=810



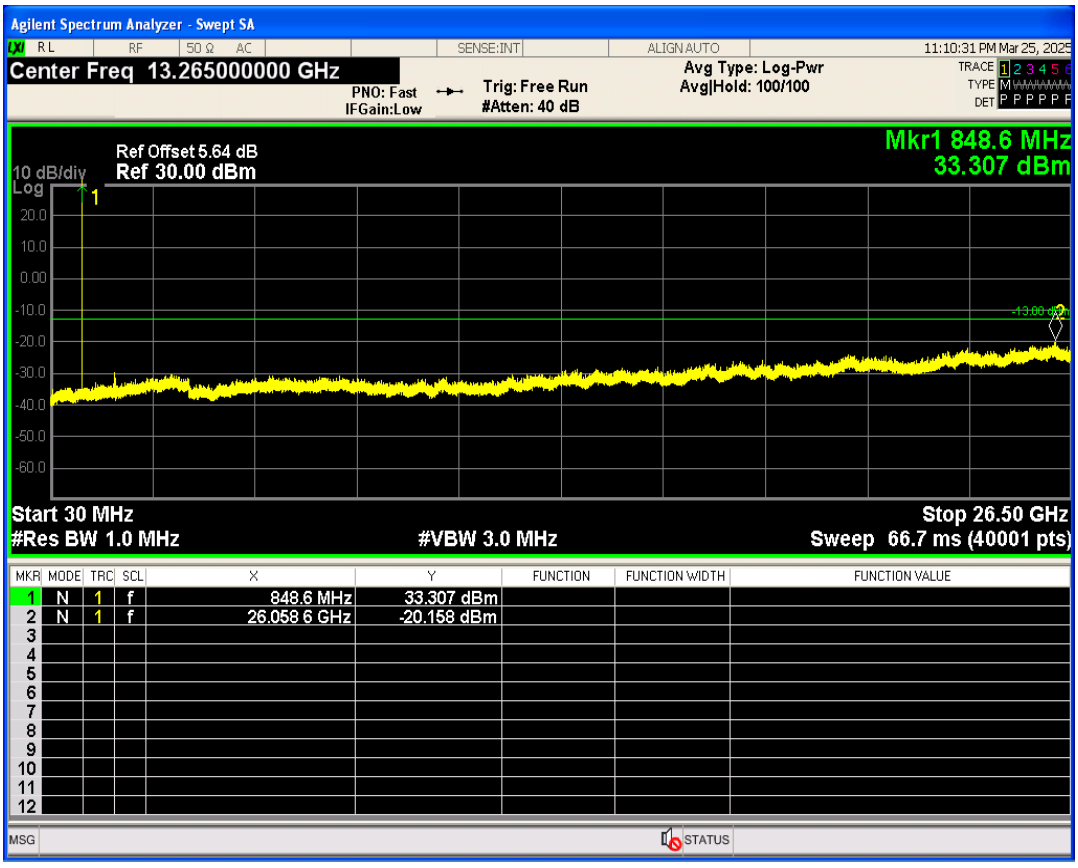
GSM1900 Channel=661



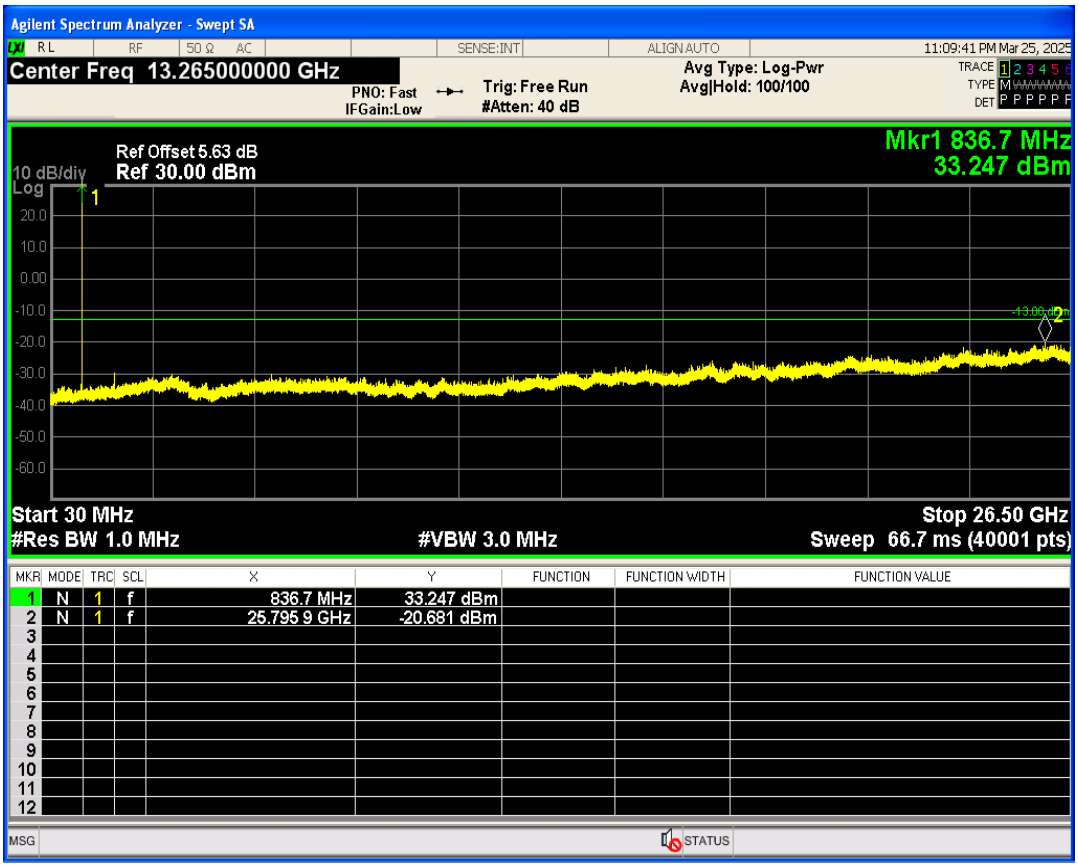
GSM850 Channel=128



GSM850 Channel=251



GSM850 Channel=189


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:09:41 PM Mar 25, 2025
Center Freq 13.265000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P P
Ref Offset 5.63 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr1 836.7 MHz
33.247 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 66.7 ms (40001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 836.7 MHz 33.247 dBm
2 N 1 f 25.795 9 GHz -20.681 dBm
3
4
5
6
7
8
9
10
11
12
MSG
STATUS