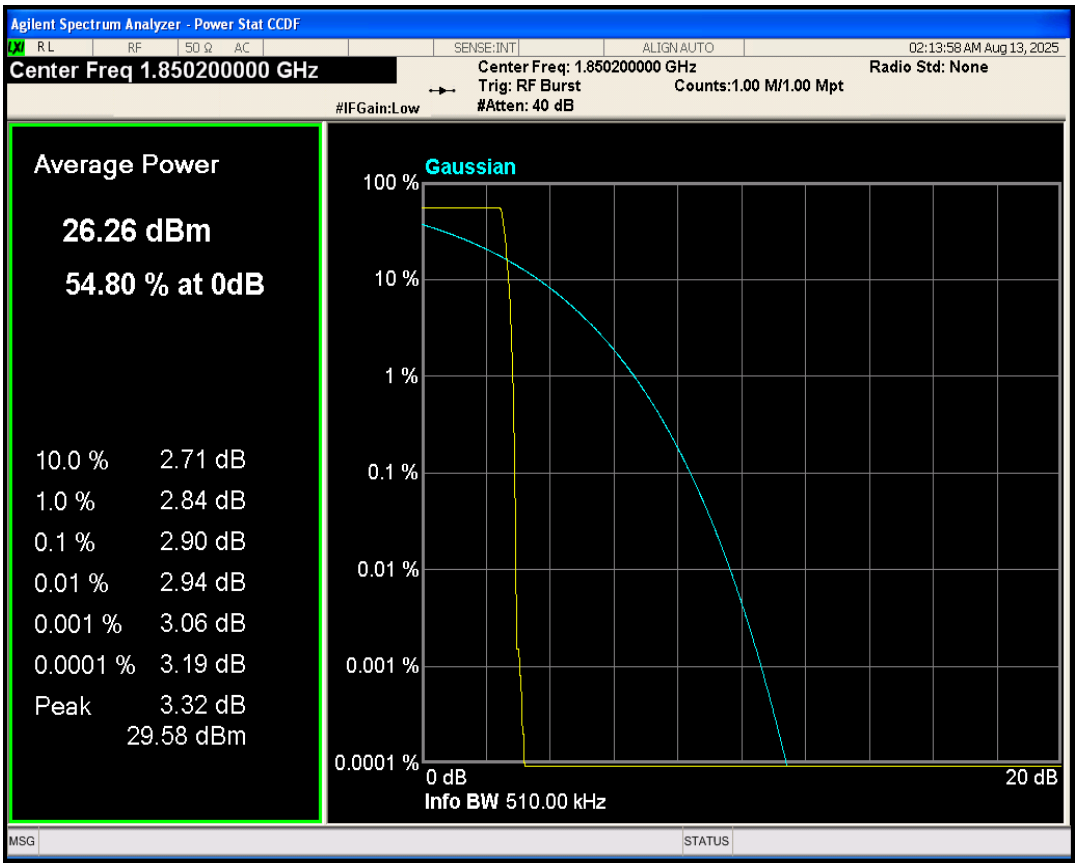
01 Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Verdict
GPRS1900 1 Slot	512	1850.2	28.75	PASS
GPRS1900 1 Slot	661	1880	28.92	PASS
GPRS1900 1 Slot	810	1909.8	29.18	PASS
GPRS1900 2 Slot	512	1850.2	26.01	PASS
GPRS1900 2 Slot	661	1880	25.58	PASS
GPRS1900 2 Slot	810	1909.8	25.33	PASS
GPRS1900 3 Slot	512	1850.2	24.27	PASS
GPRS1900 3 Slot	661	1880	23.84	PASS
GPRS1900 3 Slot	810	1909.8	23.41	PASS
GPRS1900 4 Slot	512	1850.2	22.03	PASS
GPRS1900 4 Slot	661	1880	21.52	PASS
GPRS1900 4 Slot	810	1909.8	21.19	PASS
GPRS850 1 Slot	128	824.2	32.20	PASS
GPRS850 1 Slot	189	836.4	32.00	PASS
GPRS850 1 Slot	251	848.8	32.06	PASS
GPRS850 2 Slot	128	824.2	30.00	PASS
GPRS850 2 Slot	189	836.4	29.72	PASS
GPRS850 2 Slot	251	848.8	29.56	PASS
GPRS850 3 Slot	128	824.2	27.86	PASS
GPRS850 3 Slot	189	836.4	27.58	PASS
GPRS850 3 Slot	251	848.8	27.43	PASS
GPRS850 4 Slot	128	824.2	25.44	PASS
GPRS850 4 Slot	189	836.4	25.18	PASS
GPRS850 4 Slot	251	848.8	24.92	PASS
GSM1900	512	1850.2	28.93	PASS
GSM1900	661	1880	29.02	PASS
GSM1900	810	1909.8	29.25	PASS
GSM850	128	824.2	32.27	PASS
GSM850	189	836.4	32.10	PASS
GSM850	251	848.8	32.10	PASS

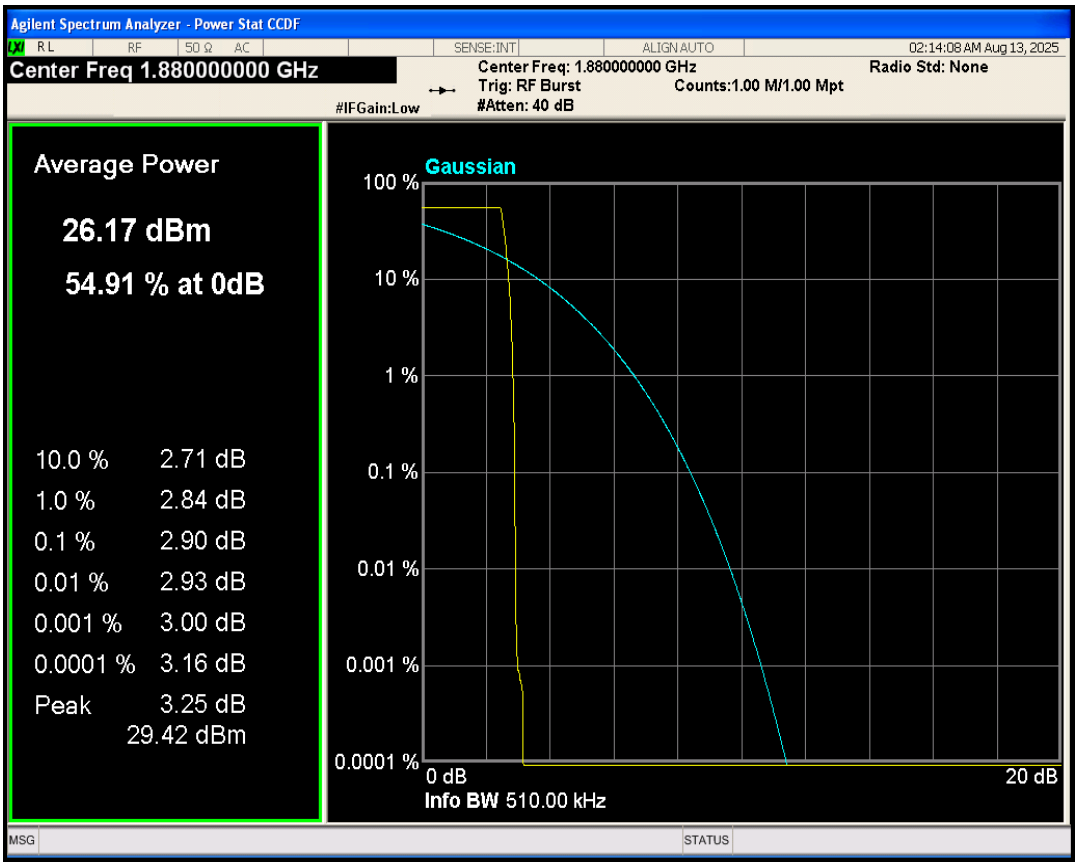
09 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GPRS1900	512	1850.2	2.90	13	PASS
GPRS1900	661	1880	2.90	13	PASS
GPRS1900	810	1909.8	2.92	13	PASS
GPRS850	128	824.2	2.84	13	PASS
GPRS850	189	836.4	2.80	13	PASS
GPRS850	251	848.8	2.83	13	PASS

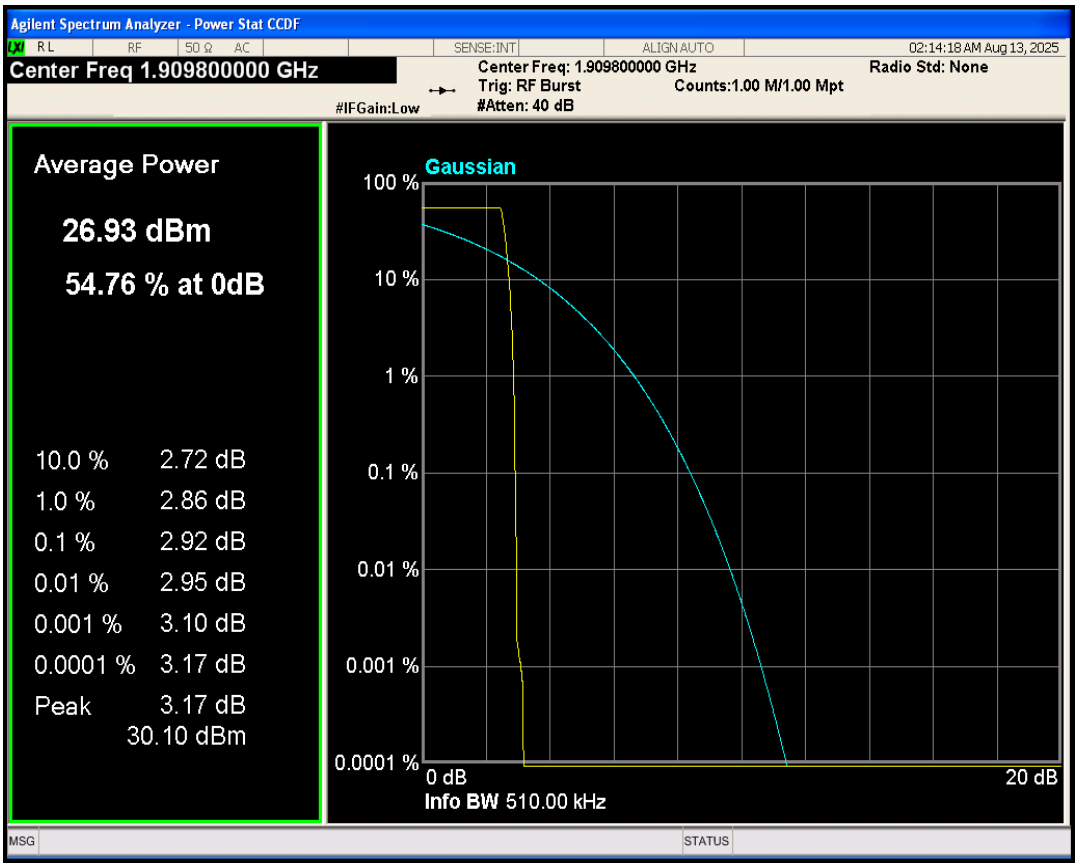
GPRS1900 Channel=512



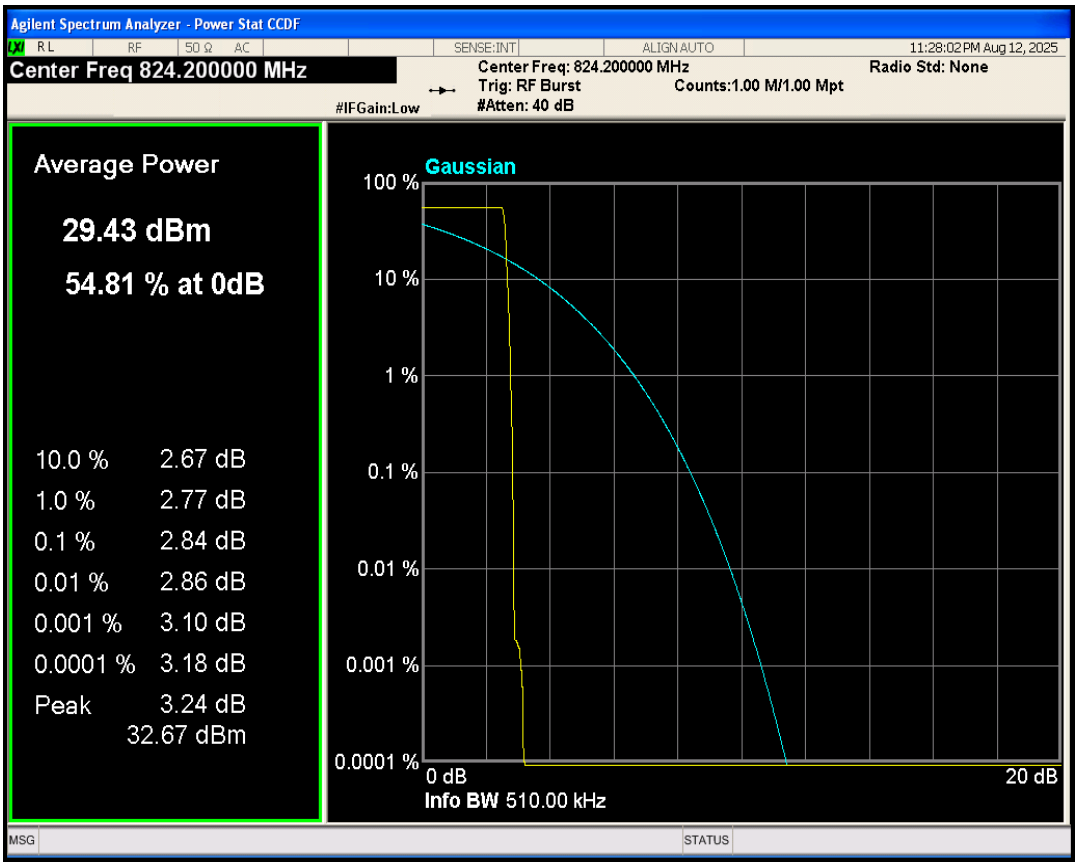
GPRS1900 Channel=661



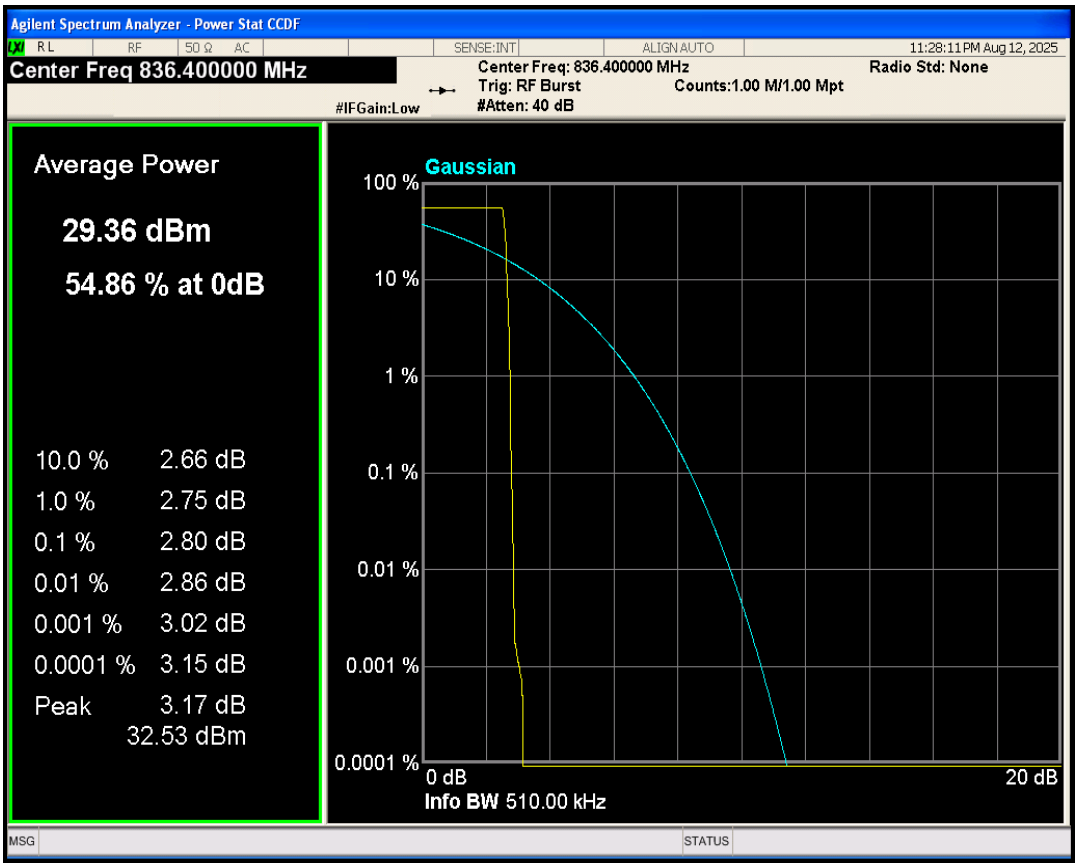
GPRS1900 Channel=810



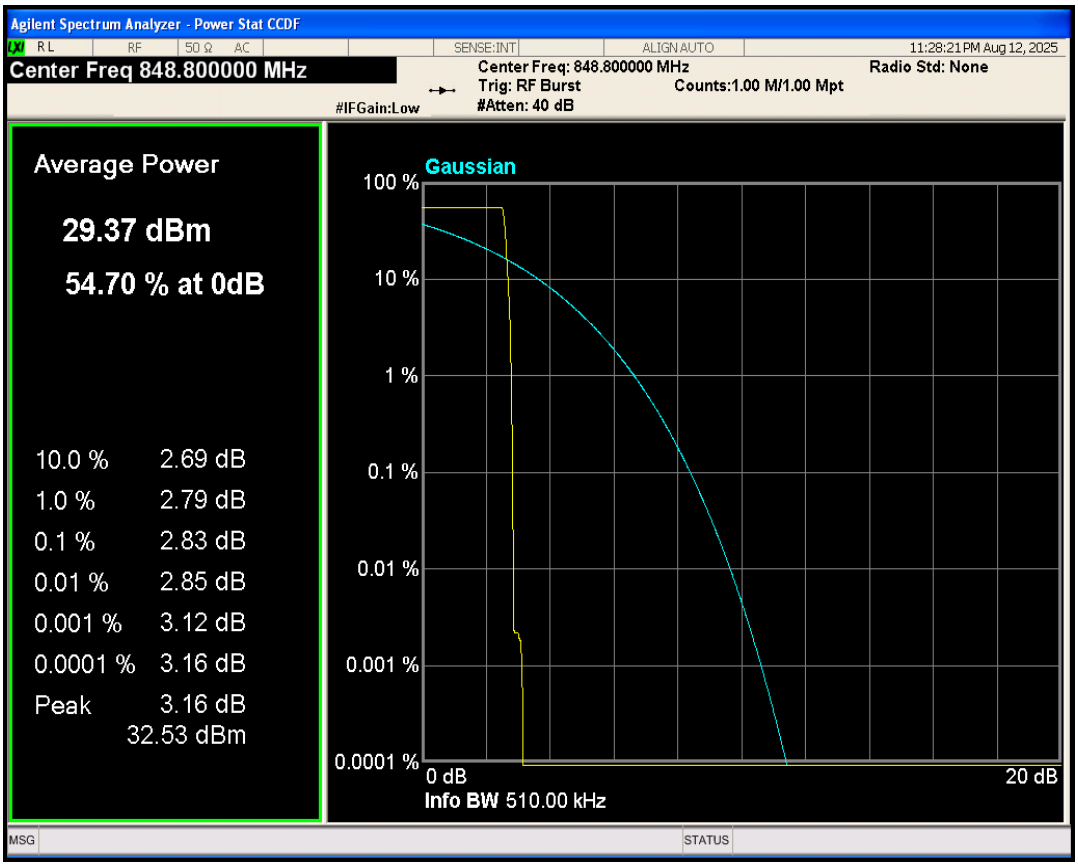
GPRS850 Channel=128



GPRS850 Channel=189



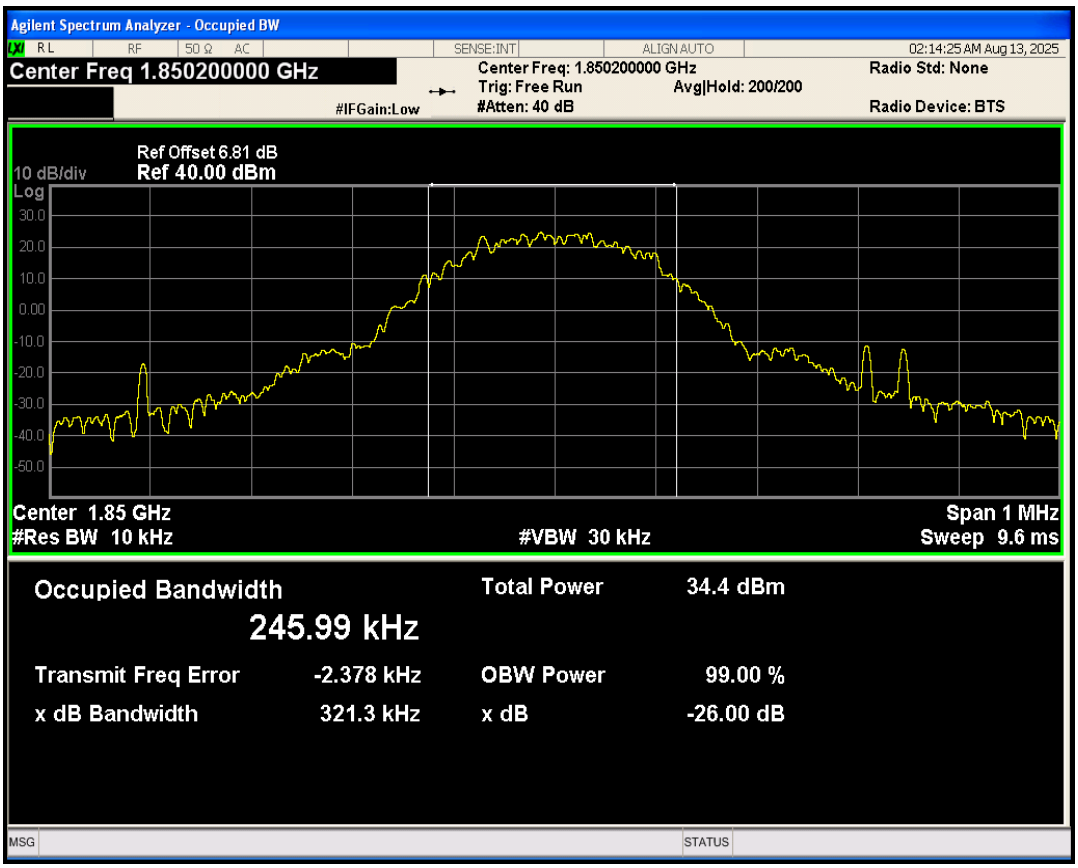
GPRS850 Channel=251



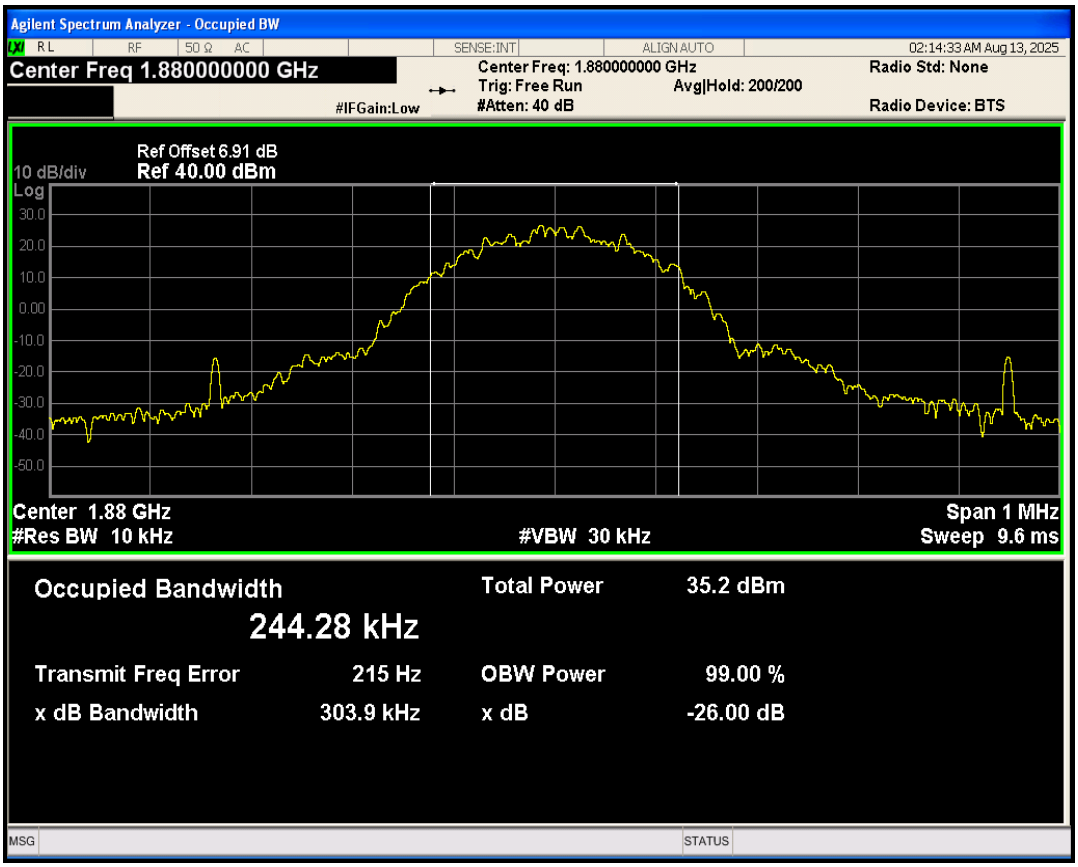
10 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GPRS1900	512	1850.2	245.988	321.284	PASS
GPRS1900	661	1880	244.284	303.941	PASS
GPRS1900	810	1909.8	246.465	303.615	PASS
GPRS850	128	824.2	243.067	316.729	PASS
GPRS850	189	836.4	246.208	313.504	PASS
GPRS850	251	848.8	245.980	322.891	PASS

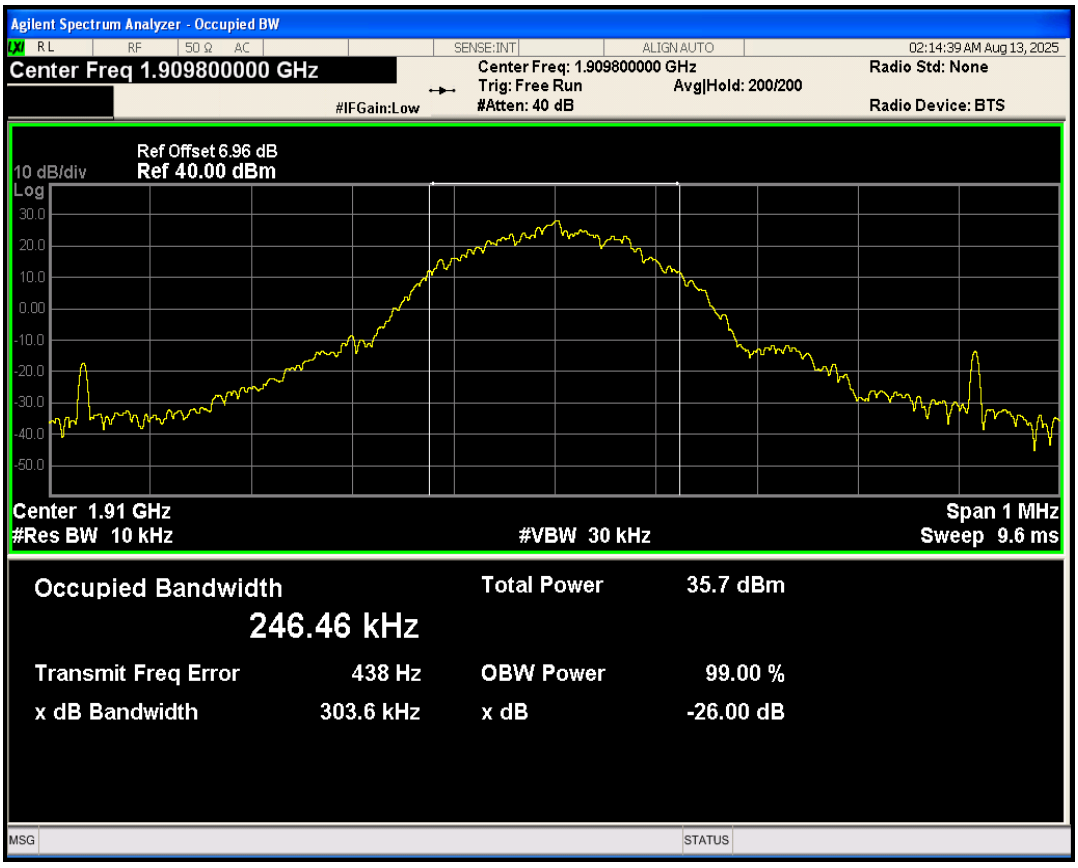
GPRS1900 Channel=512



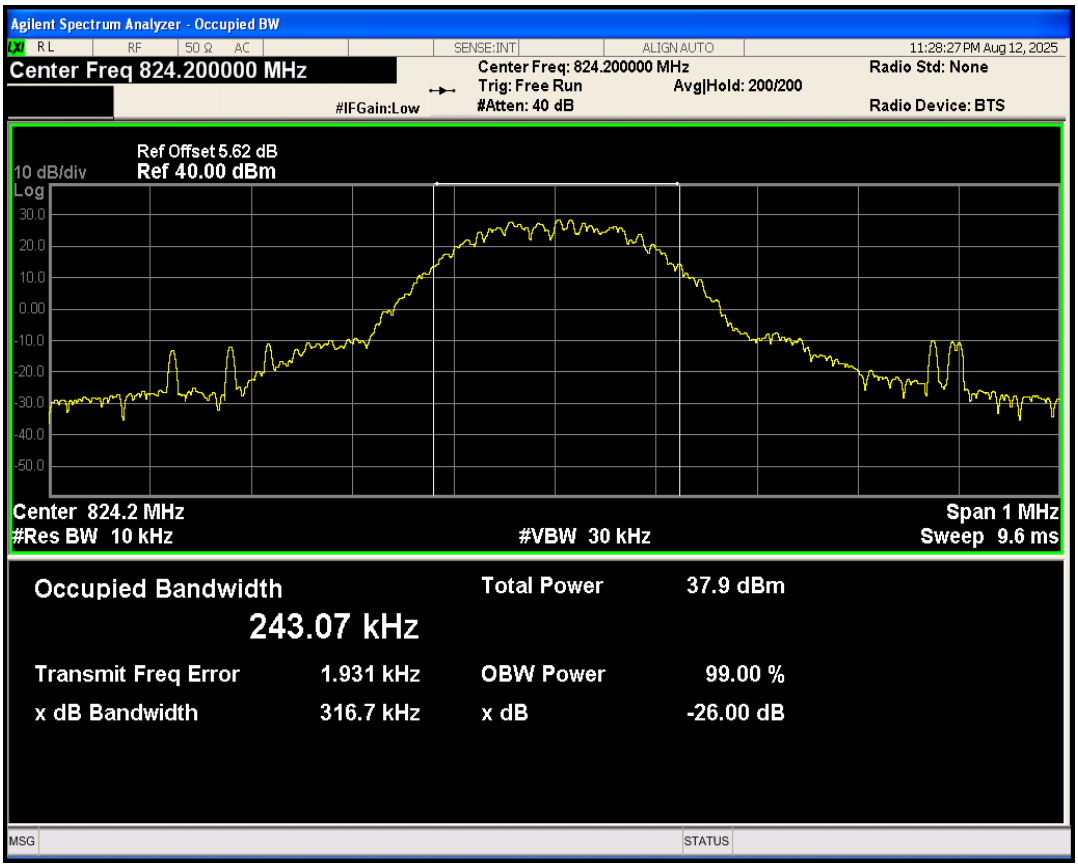
GPRS1900 Channel=661



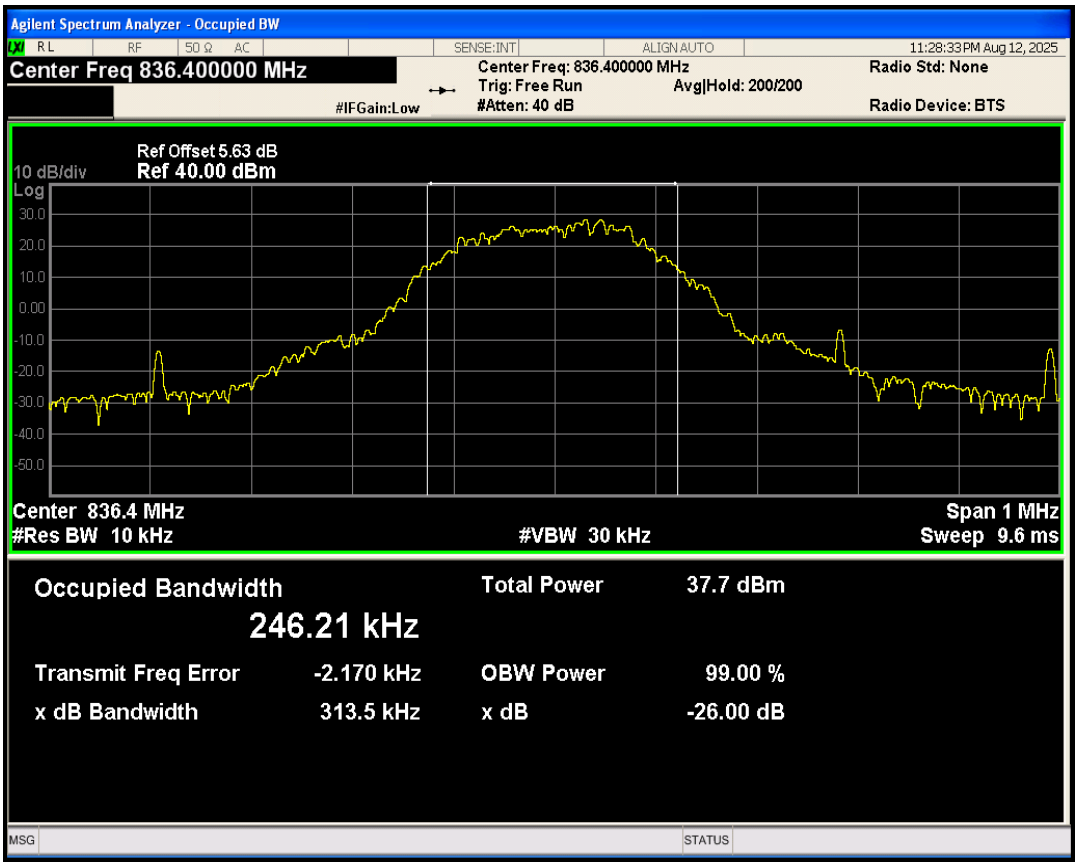
GPRS1900 Channel=810



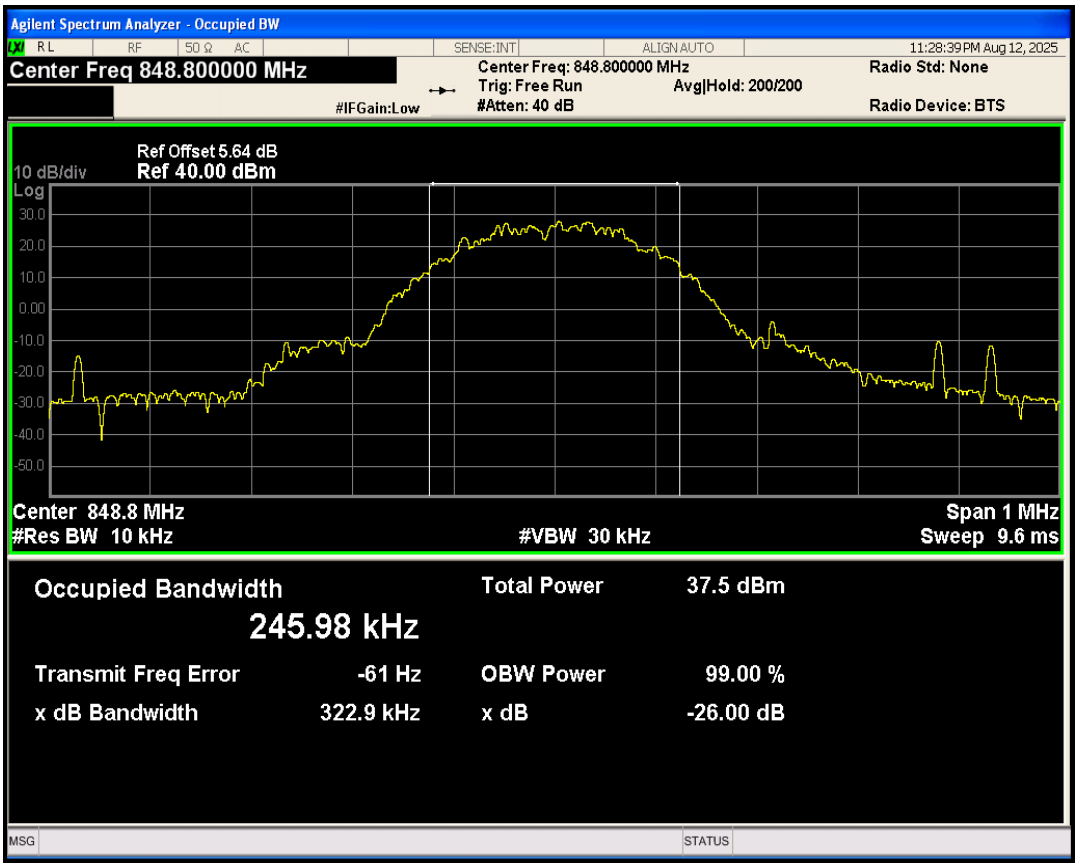
GPRS850 Channel=128



GPRS850 Channel=189



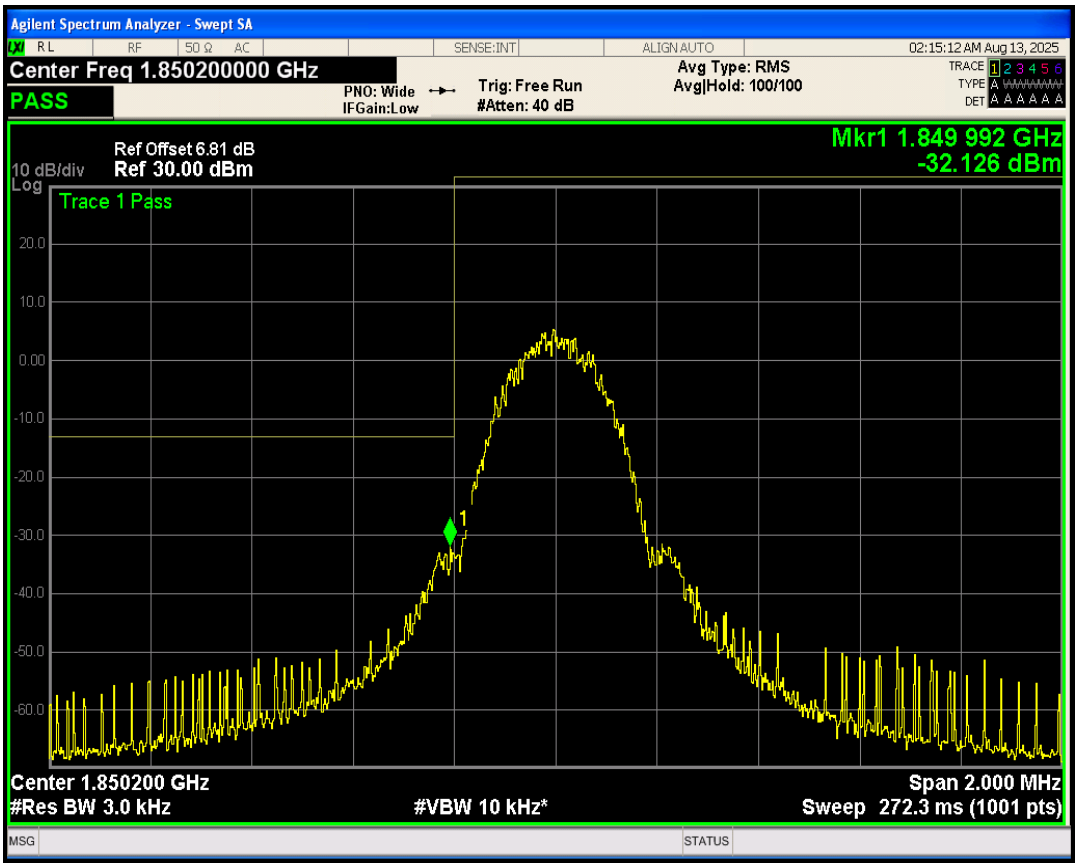
GPRS850 Channel=251



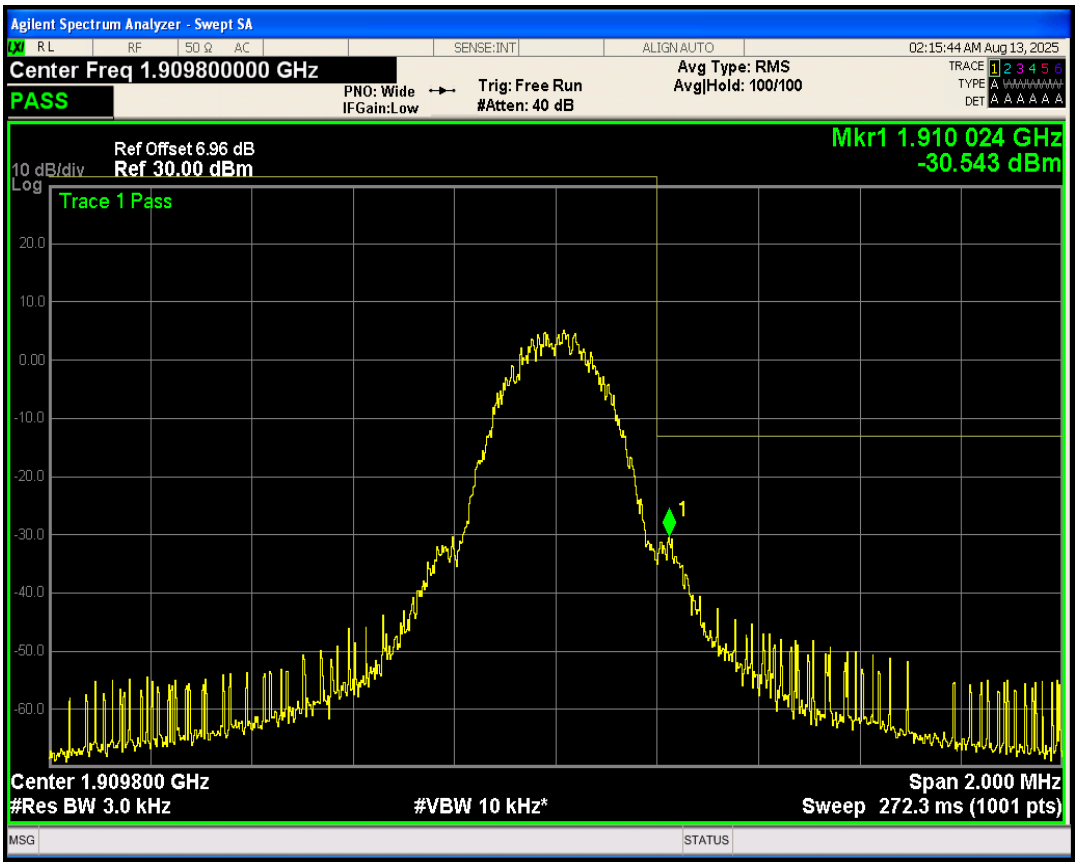
11 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	1849.99	-32.12	-13	PASS
GPRS1900	810	1909.8	1910.02	-30.54	-13	PASS
GPRS850	128	824.2	823.98	-29.40	-13	PASS
GPRS850	251	848.8	849.02	-27.78	-13	PASS

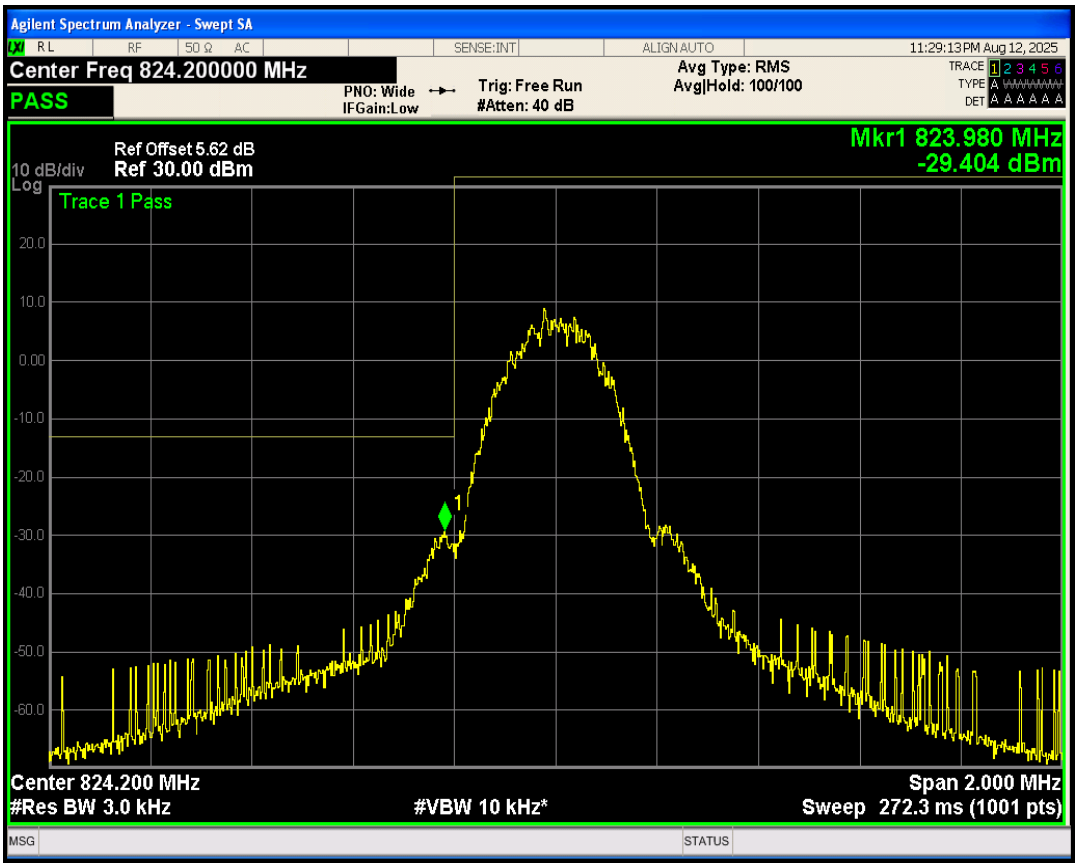
GPRS1900 Channel=512



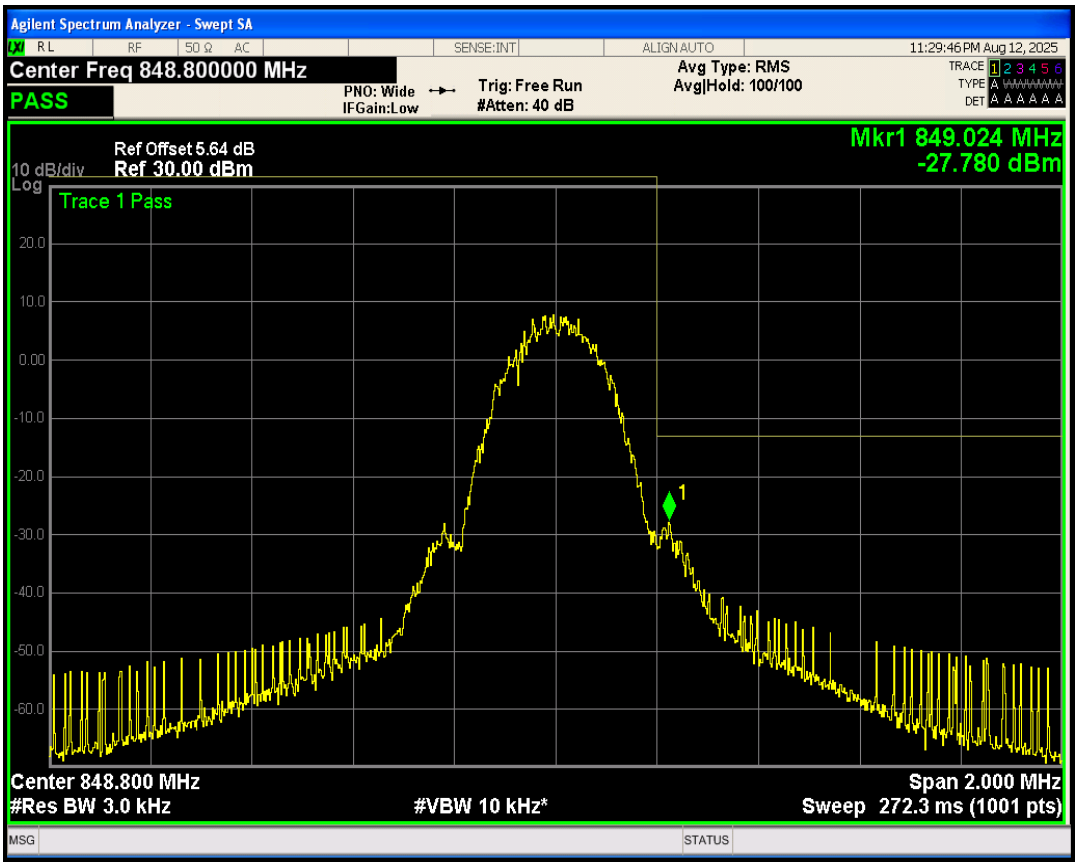
GPRS1900 Channel=810



GPRS850 Channel=128



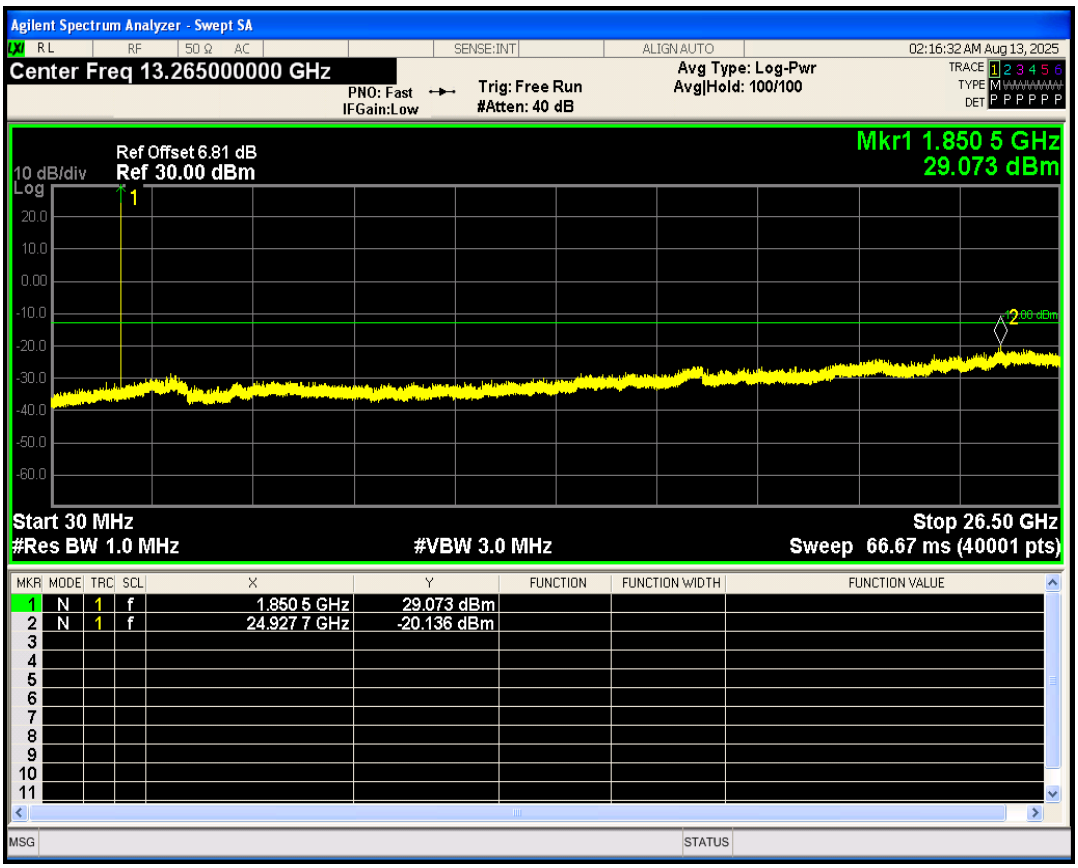
GPRS850 Channel=251



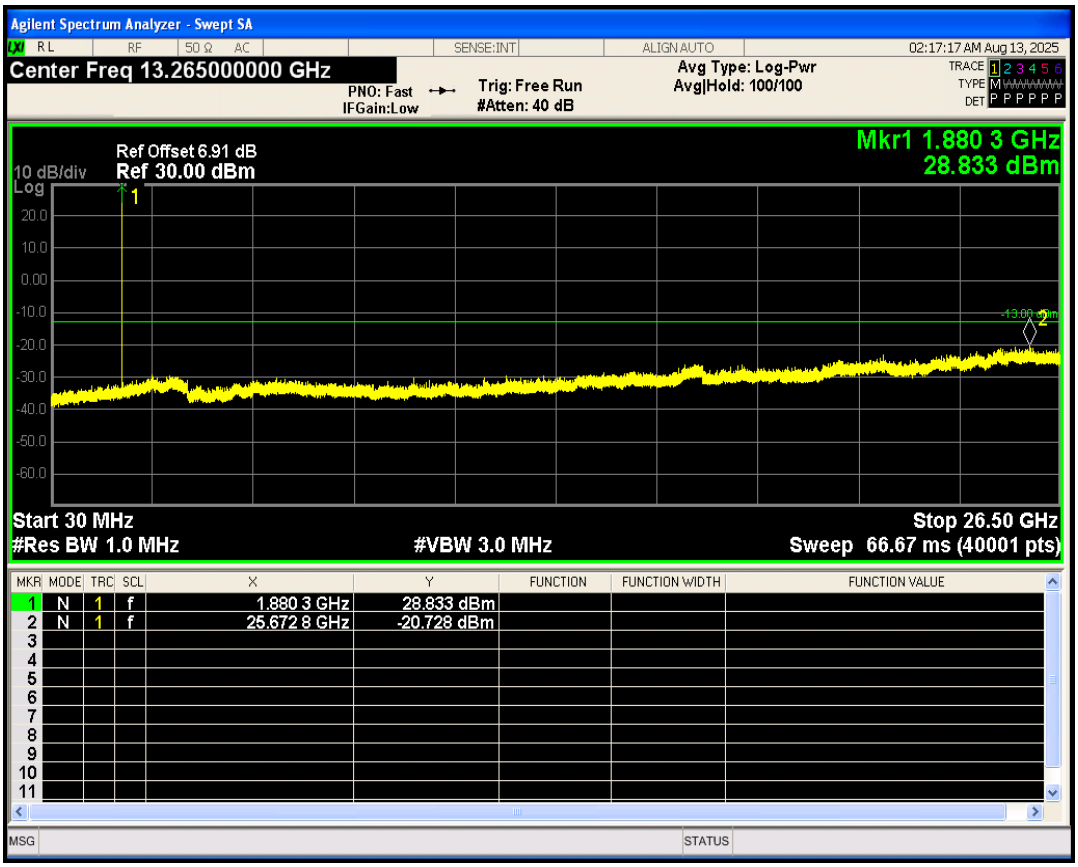
12 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	24927.68	-20.13	-13	PASS
GPRS1900	661	1880	25672.81	-20.72	-13	PASS
GPRS1900	810	1909.8	24282.48	-20.54	-13	PASS
GPRS850	128	824.2	25945.45	-22.23	-13	PASS
GPRS850	189	836.4	25738.99	-22.24	-13	PASS
GPRS850	251	848.8	25600.02	-21.31	-13	PASS

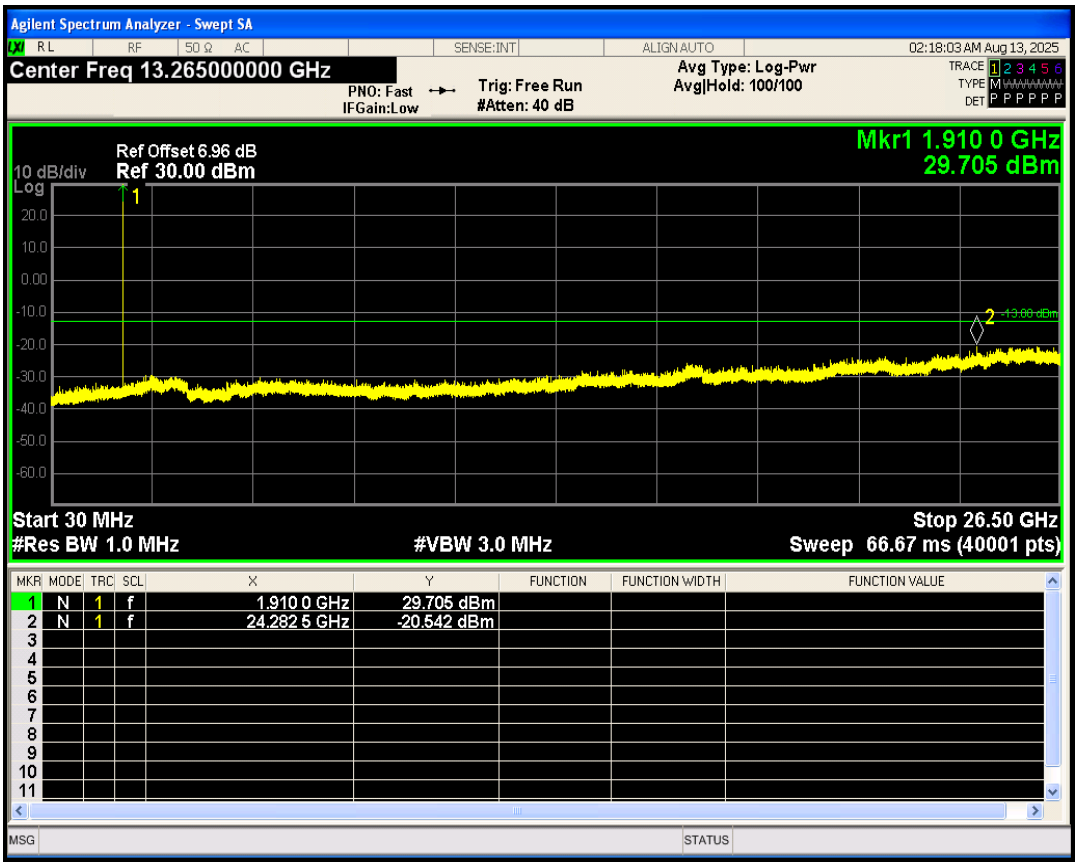
GPRS1900 Channel=512



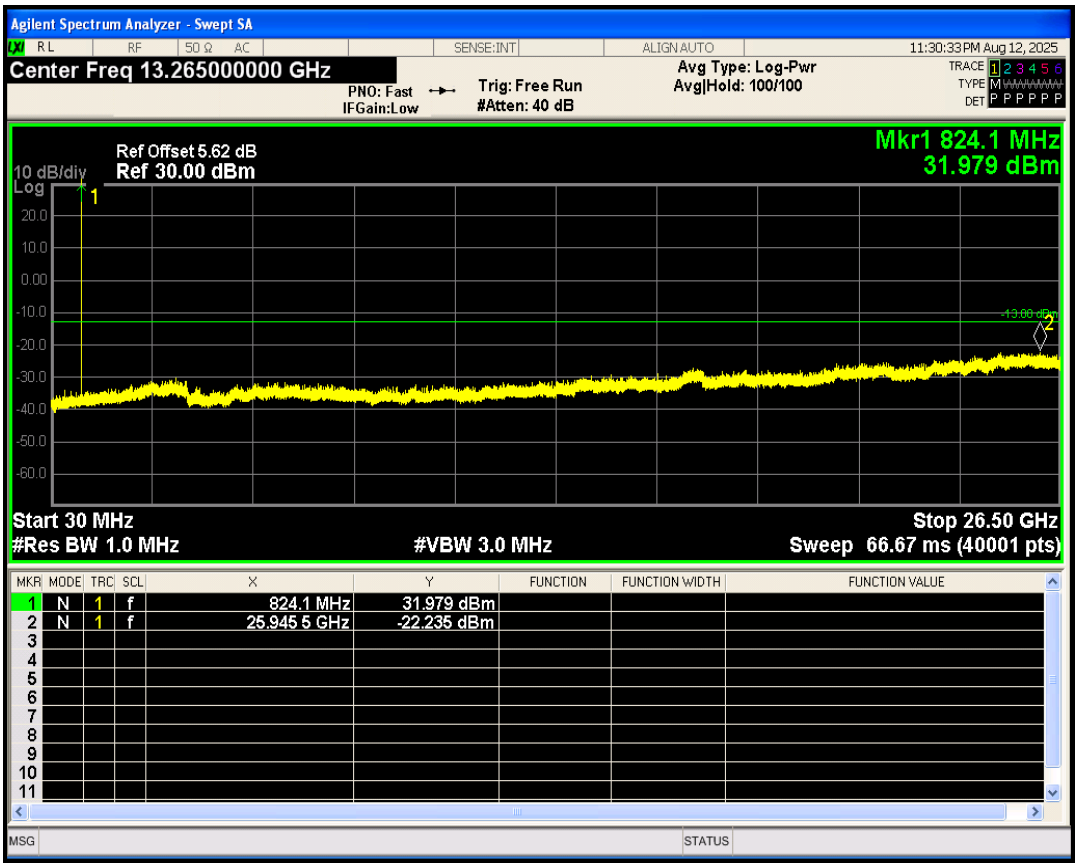
GPRS1900 Channel=661



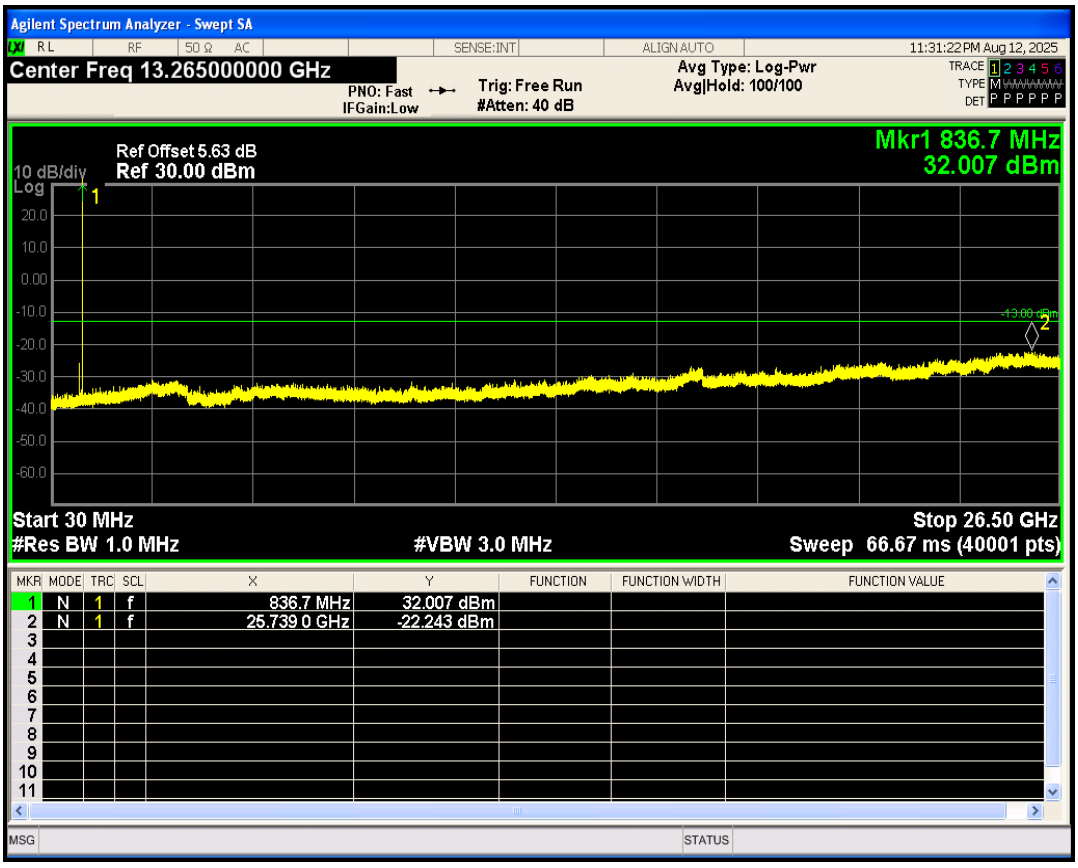
GPRS1900 Channel=810



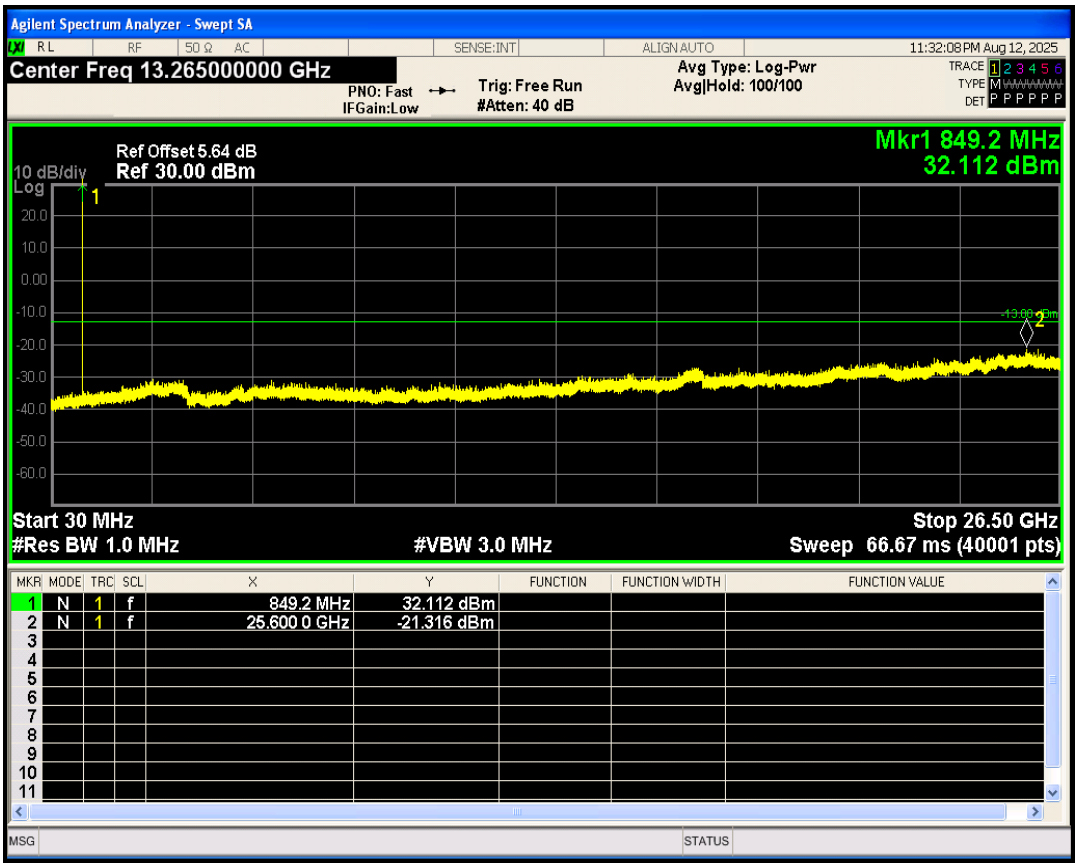
GPRS850 Channel=128



GPRS850 Channel=189



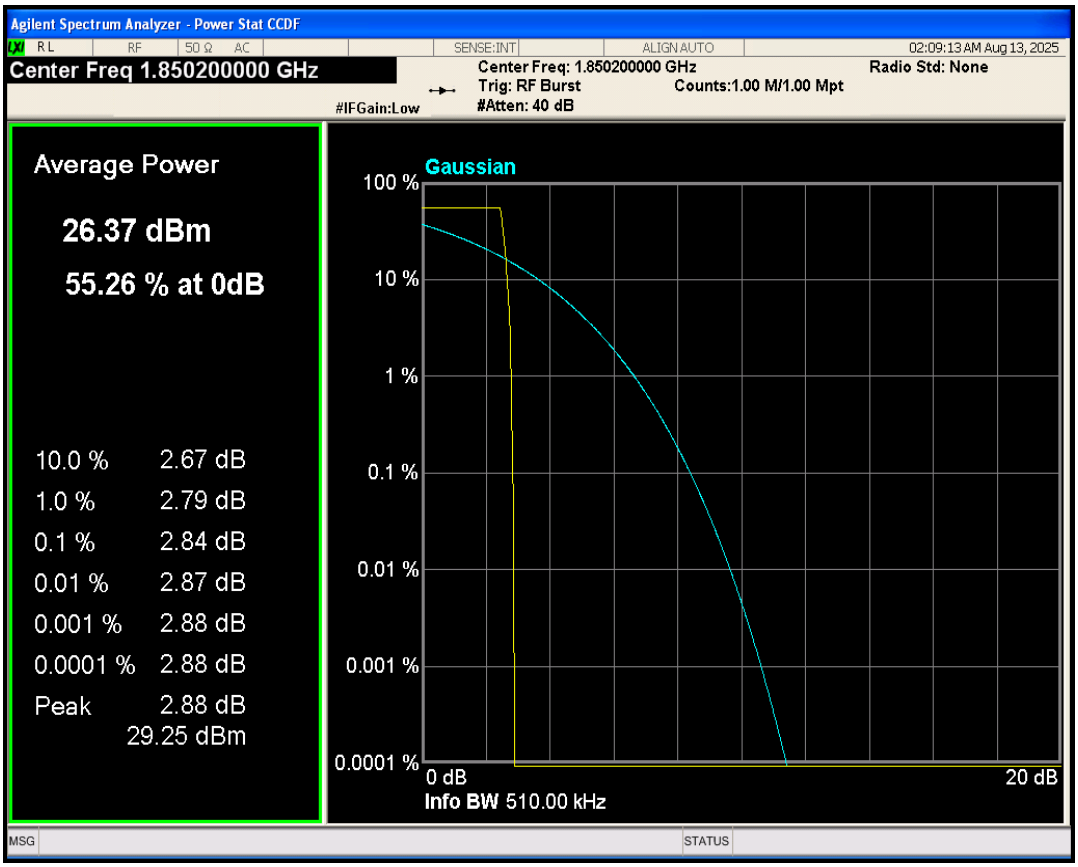
GPRS850 Channel=251



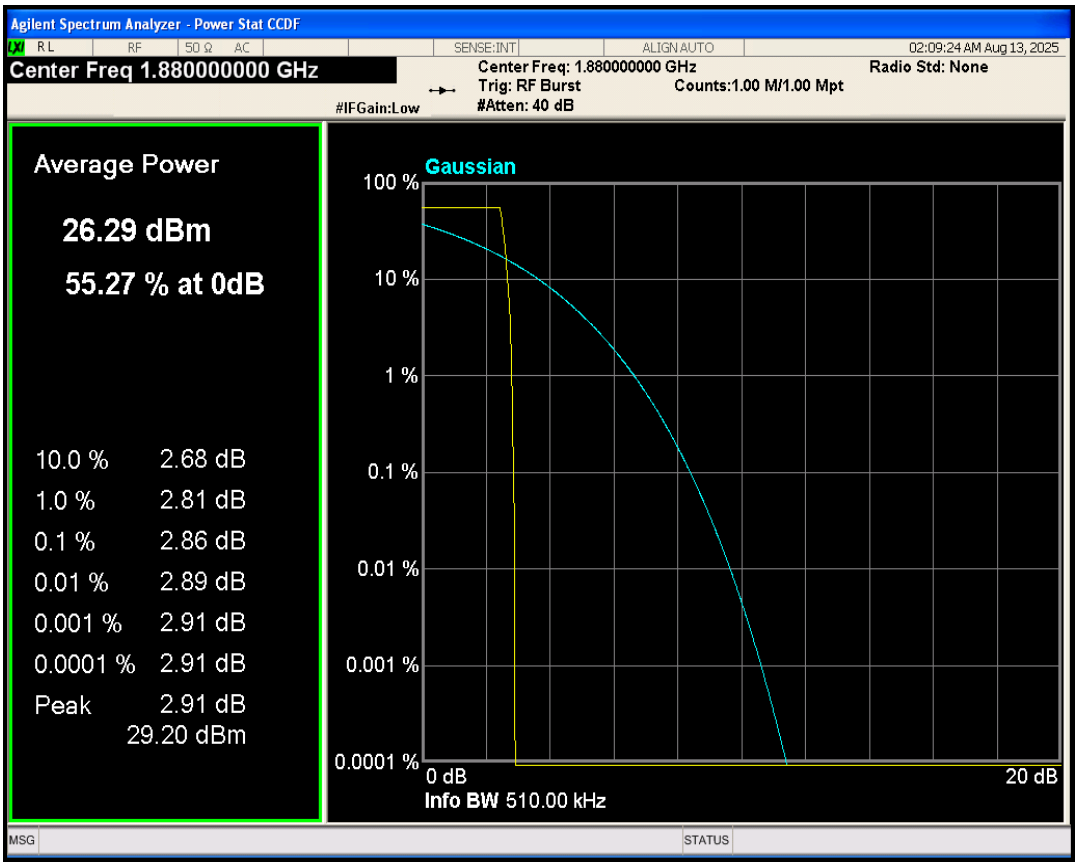
03 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM1900	512	1850.2	2.84	13	PASS
GSM1900	661	1880	2.86	13	PASS
GSM1900	810	1909.8	2.87	13	PASS
GSM850	128	824.2	2.77	13	PASS
GSM850	189	836.4	2.77	13	PASS
GSM850	251	848.8	2.78	13	PASS

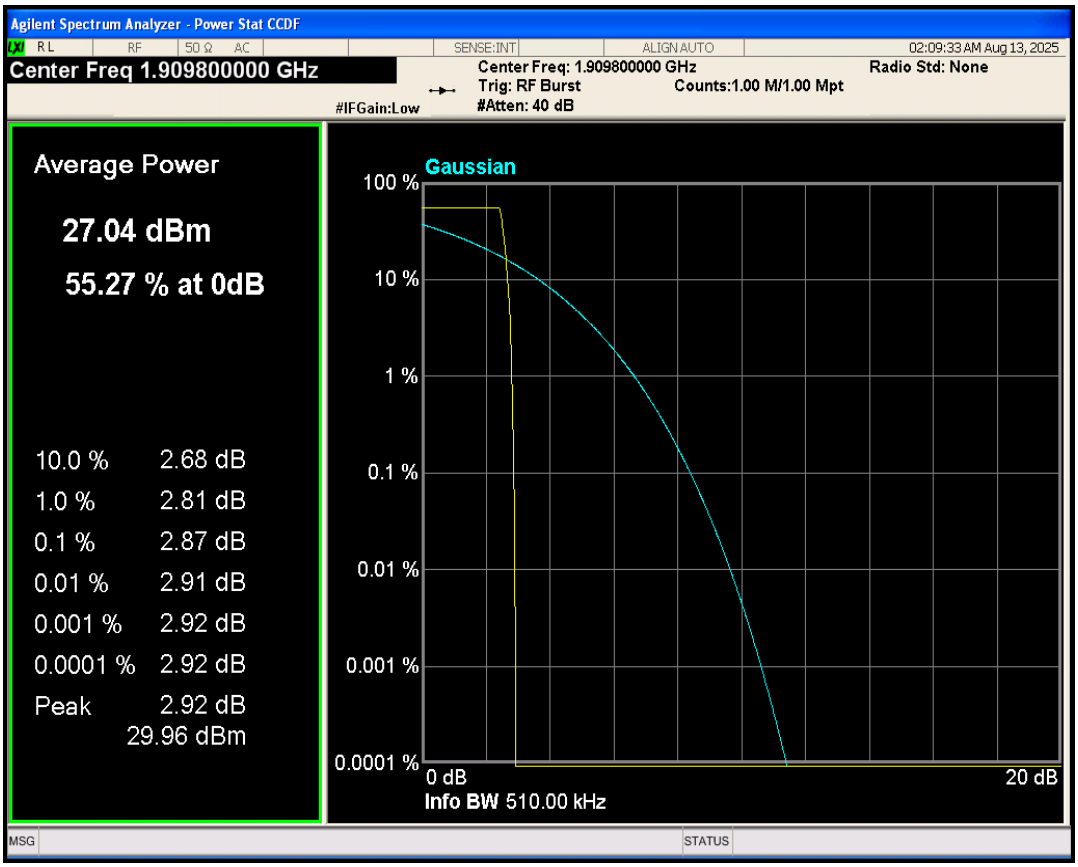
GSM1900 Channel=512



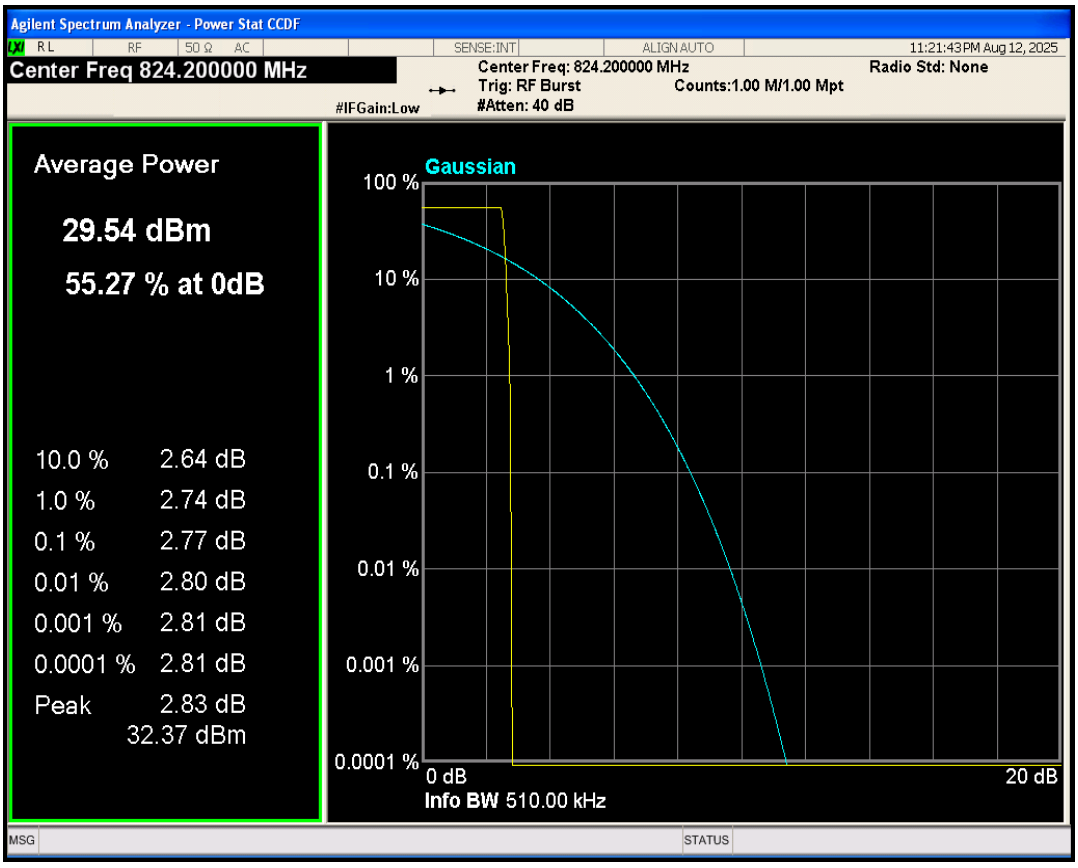
GSM1900 Channel=661



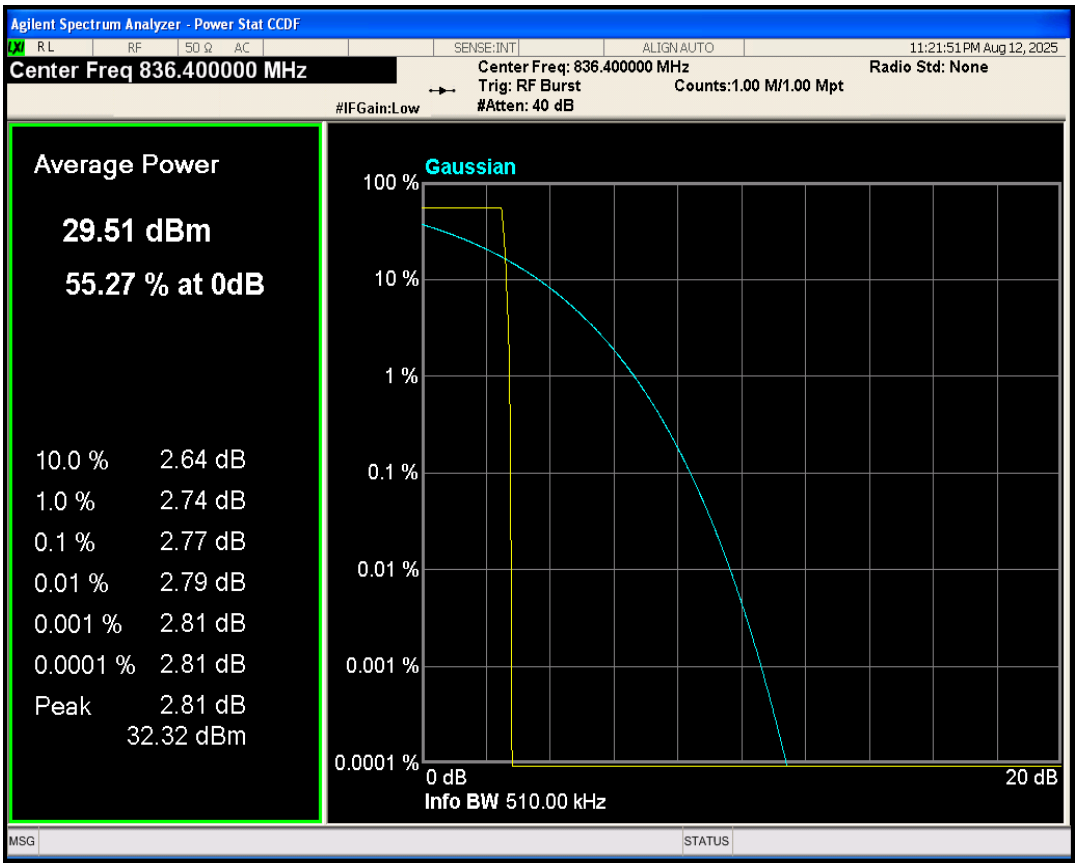
GSM1900 Channel=810



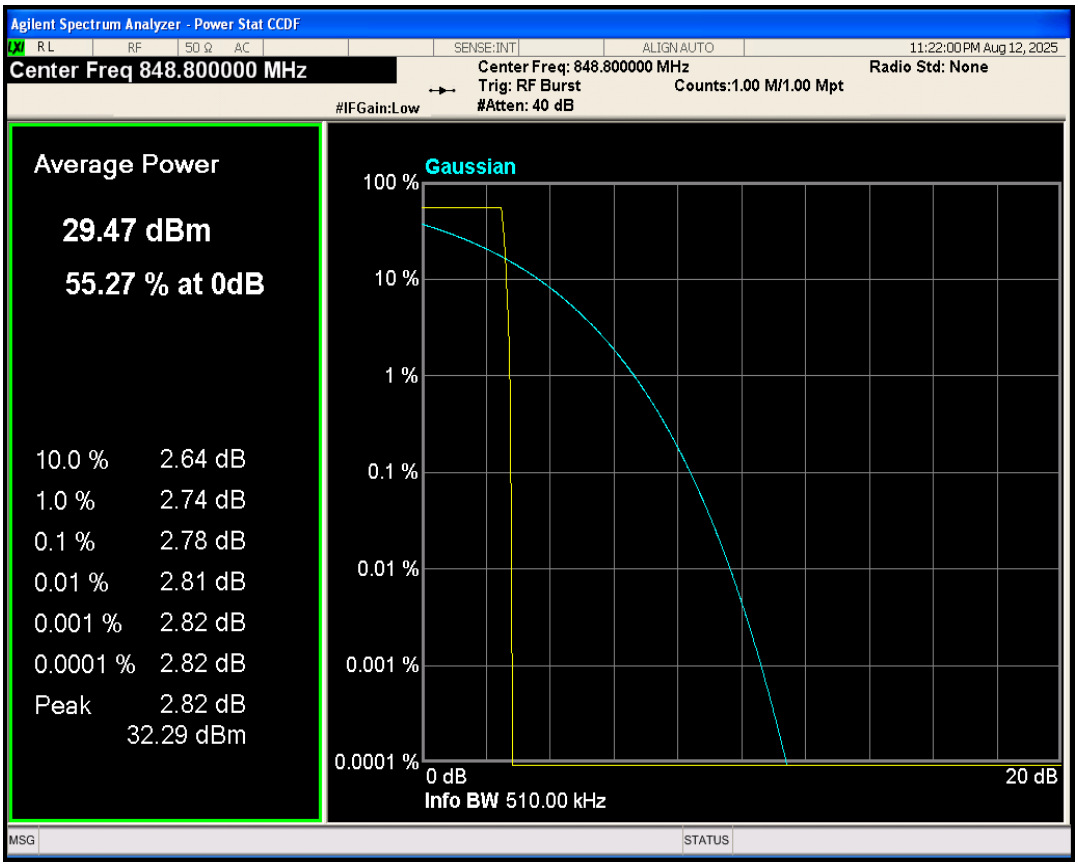
GSM850 Channel=128



GSM850 Channel=189



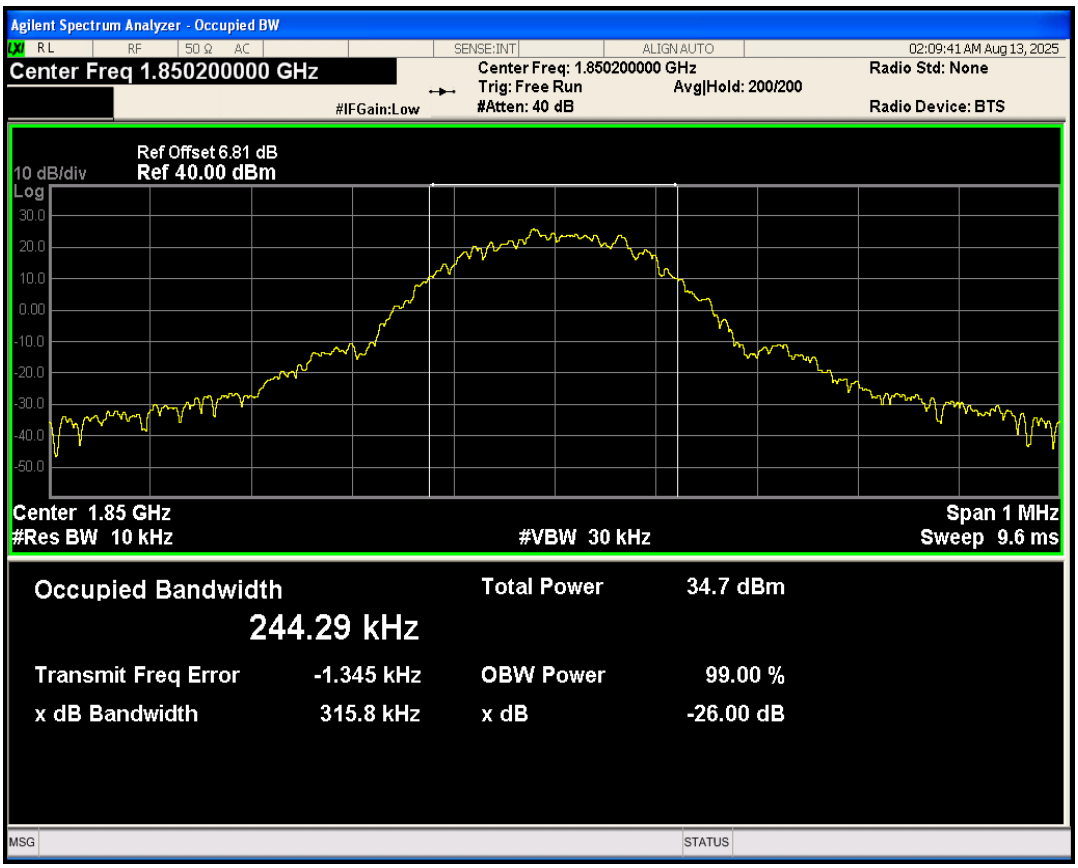
GSM850 Channel=251



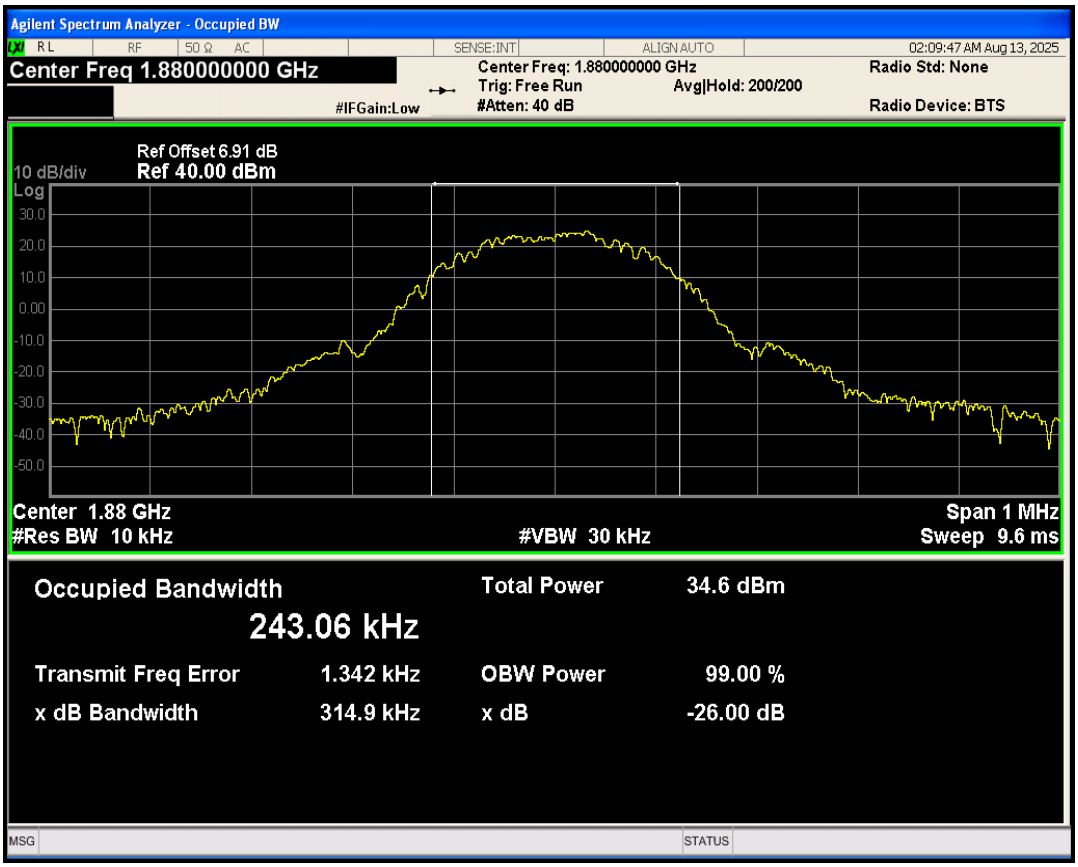
04 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM1900	512	1850.2	244.292	315.759	PASS
GSM1900	661	1880	243.065	314.889	PASS
GSM1900	810	1909.8	247.133	316.090	PASS
GSM850	128	824.2	247.485	312.671	PASS
GSM850	189	836.4	243.070	319.702	PASS
GSM850	251	848.8	242.453	315.757	PASS

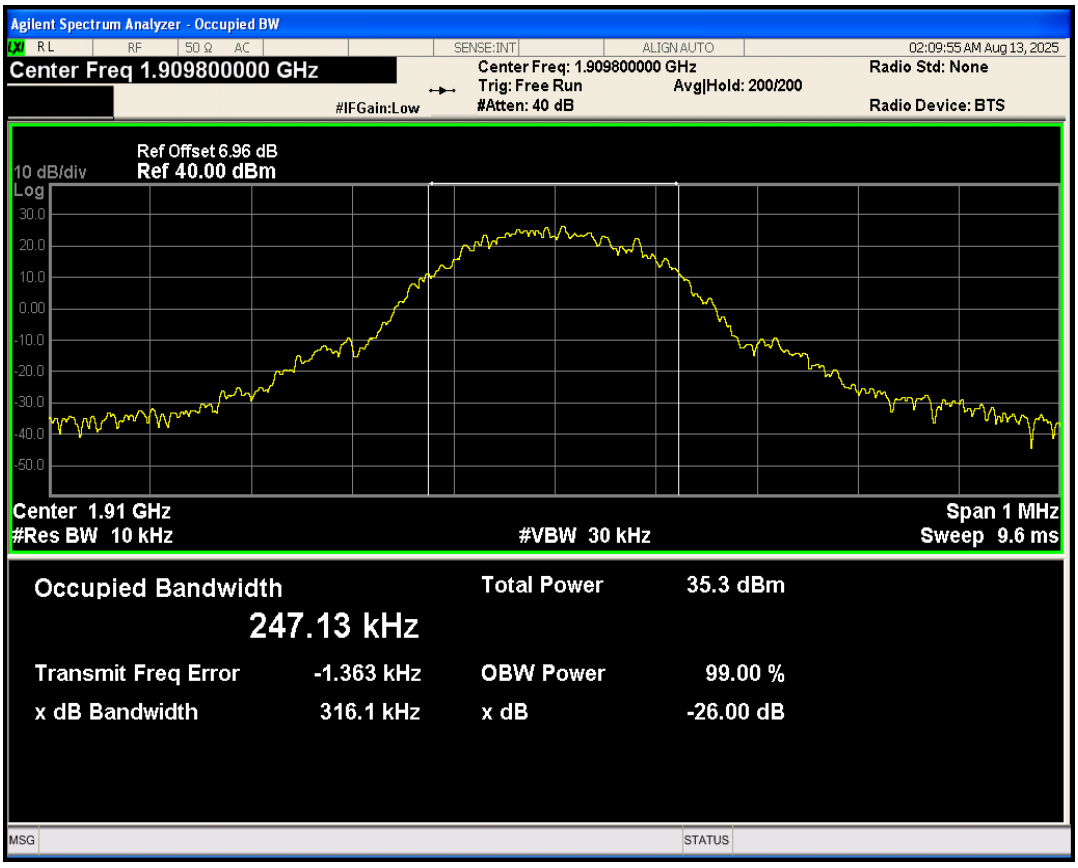
GSM1900 Channel=512



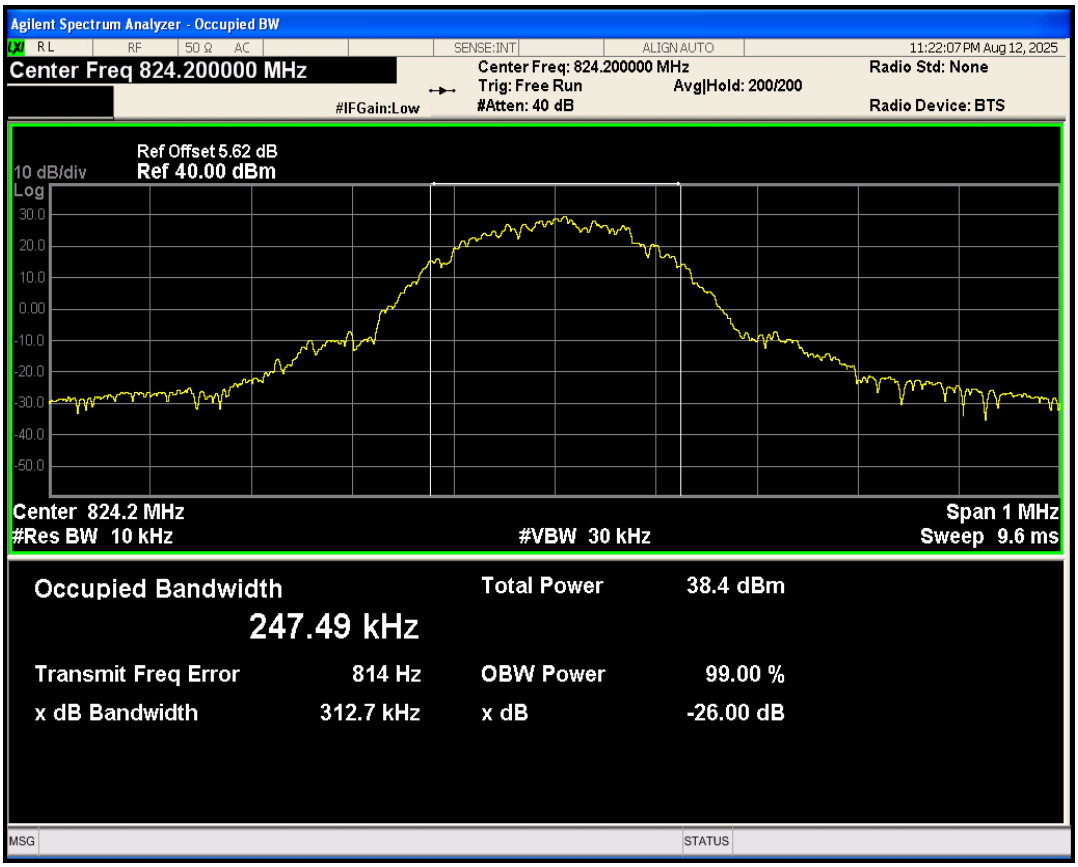
GSM1900 Channel=661



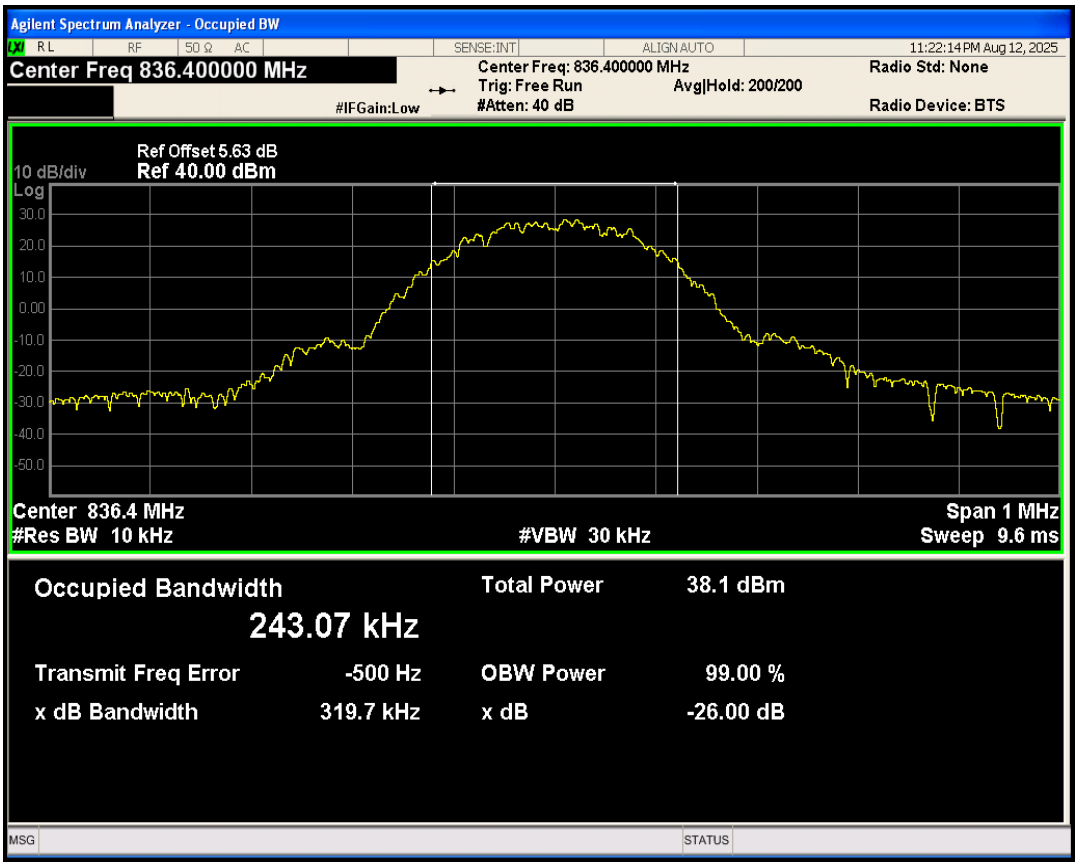
GSM1900 Channel=810



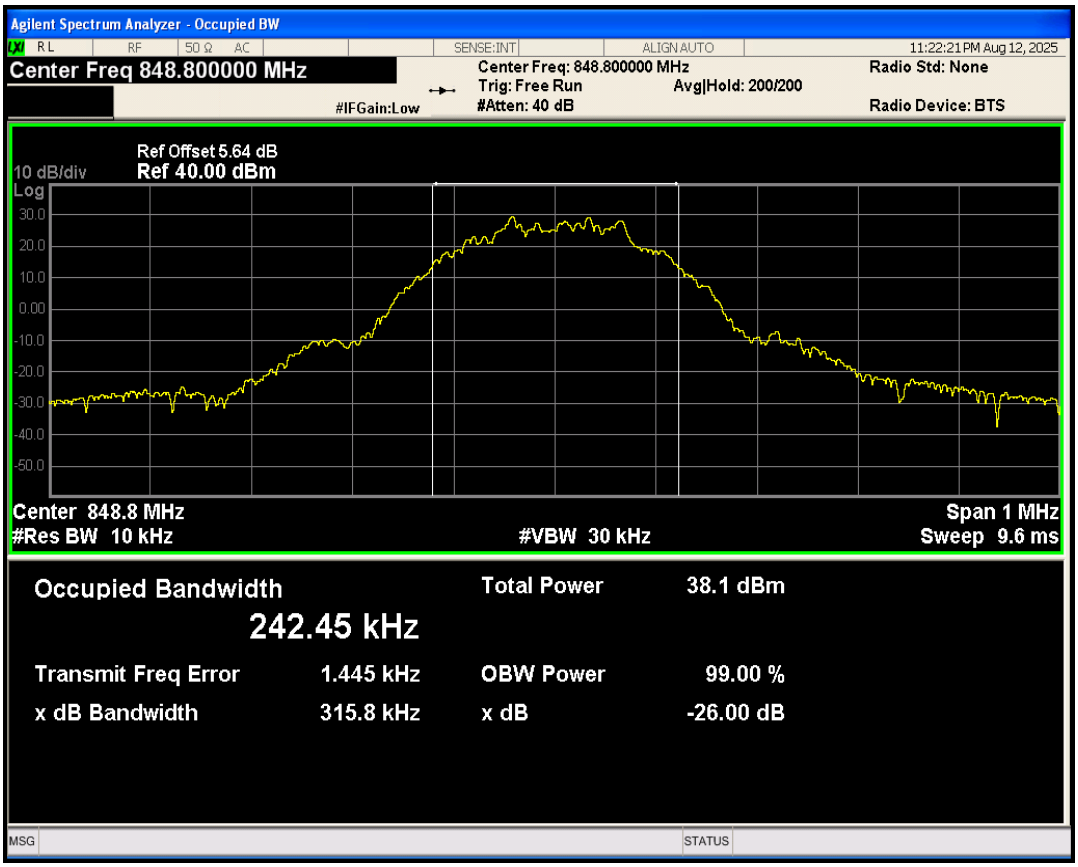
GSM850 Channel=128



GSM850 Channel=189



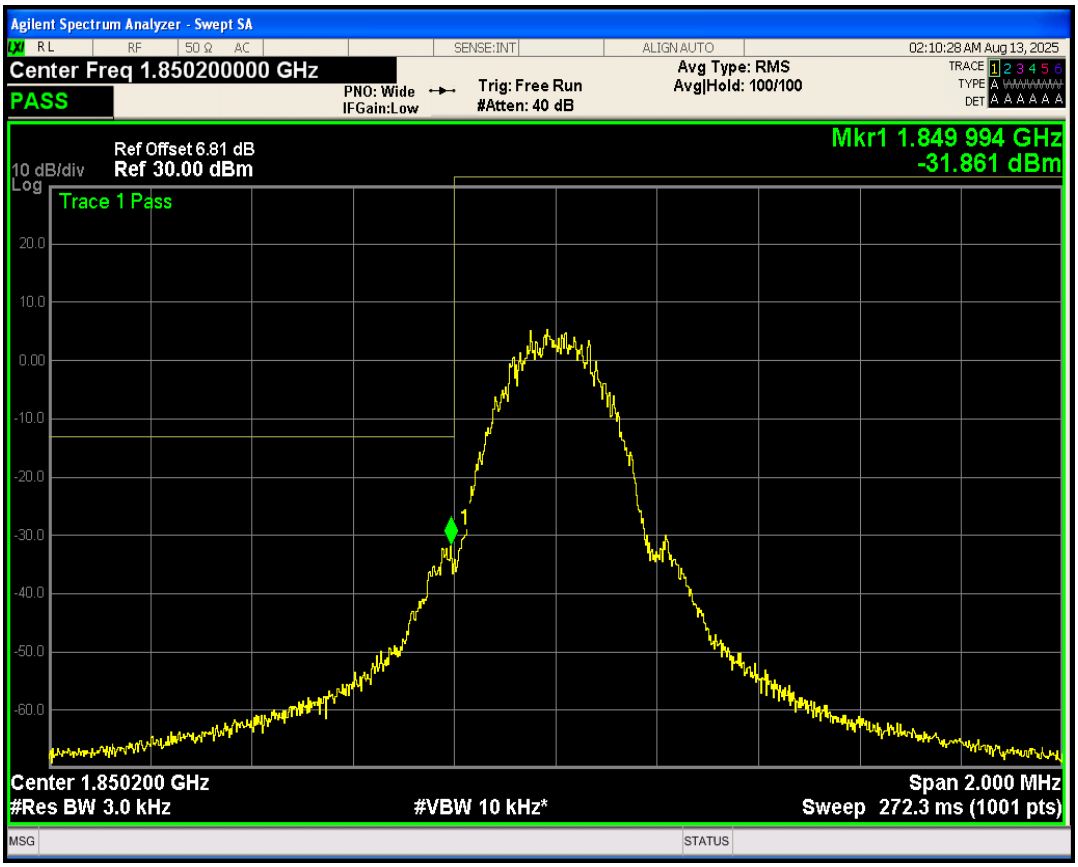
GSM850 Channel=251



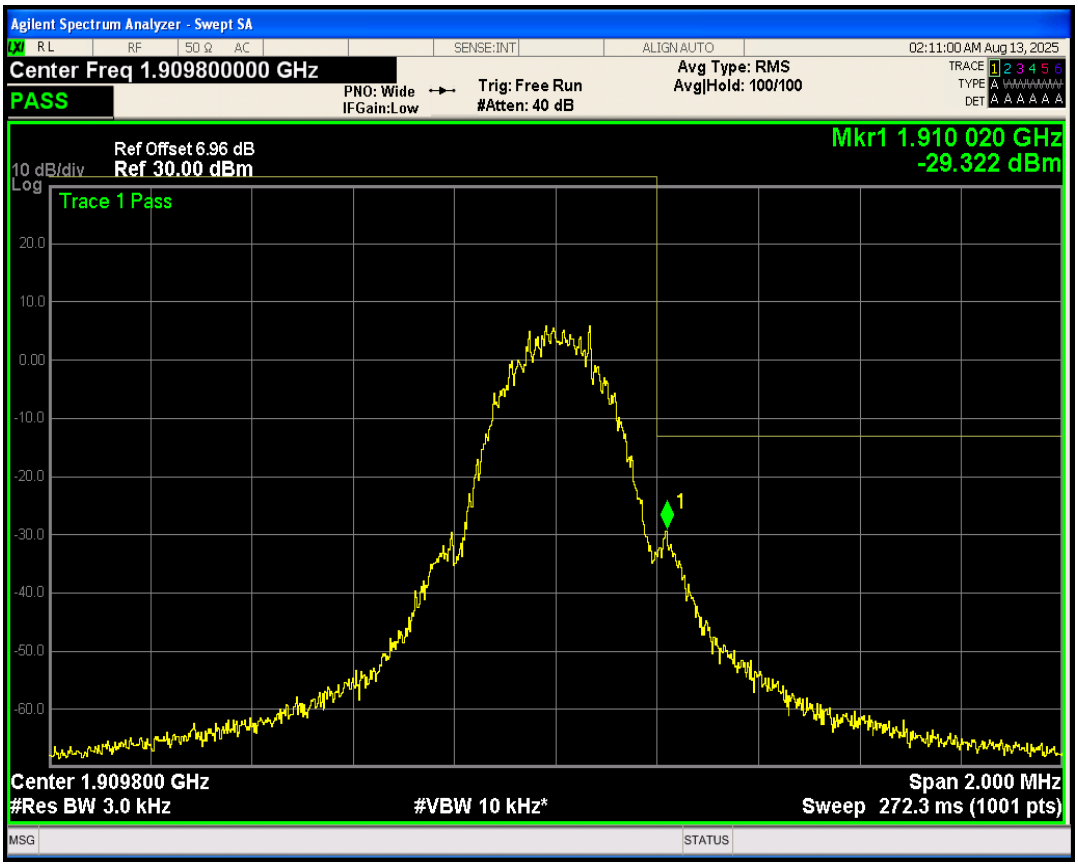
05 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM1900	512	1850.2	1849.99	-31.86	-13	PASS
GSM1900	810	1909.8	1910.02	-29.32	-13	PASS
GSM850	128	824.2	823.99	-28.93	-13	PASS
GSM850	251	848.8	849.02	-26.43	-13	PASS

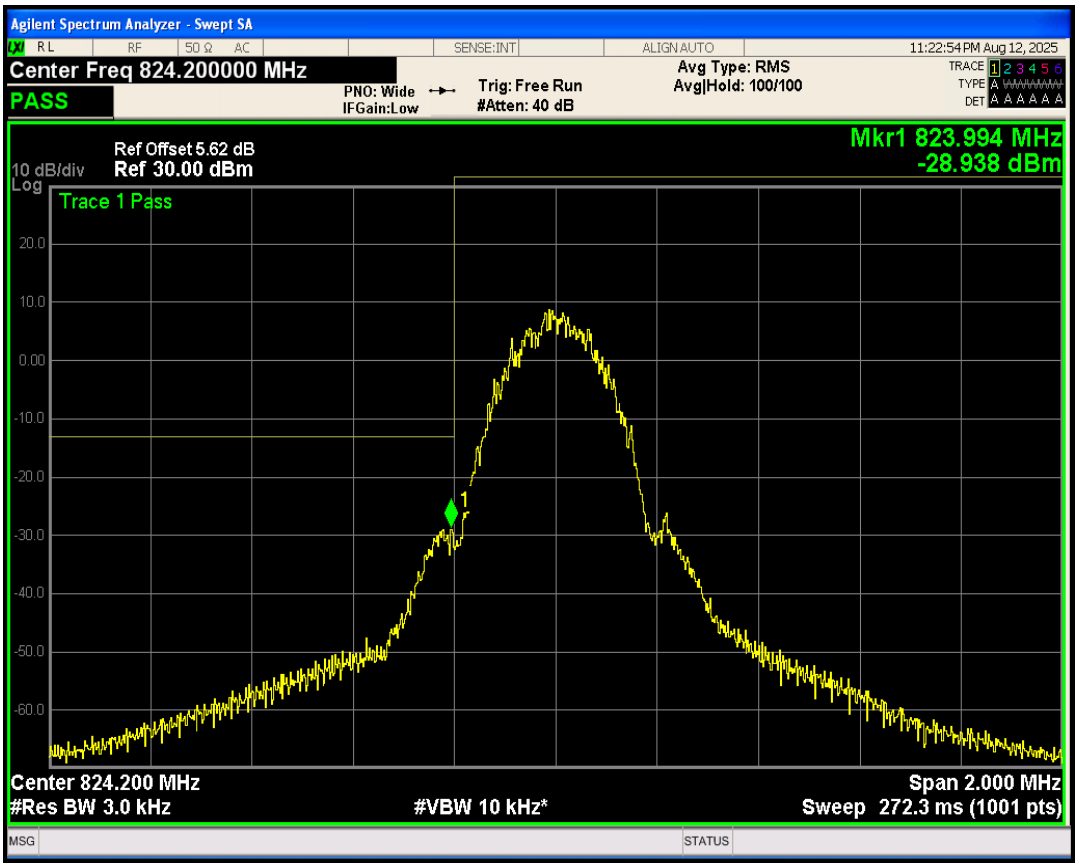
GSM1900 Channel=512



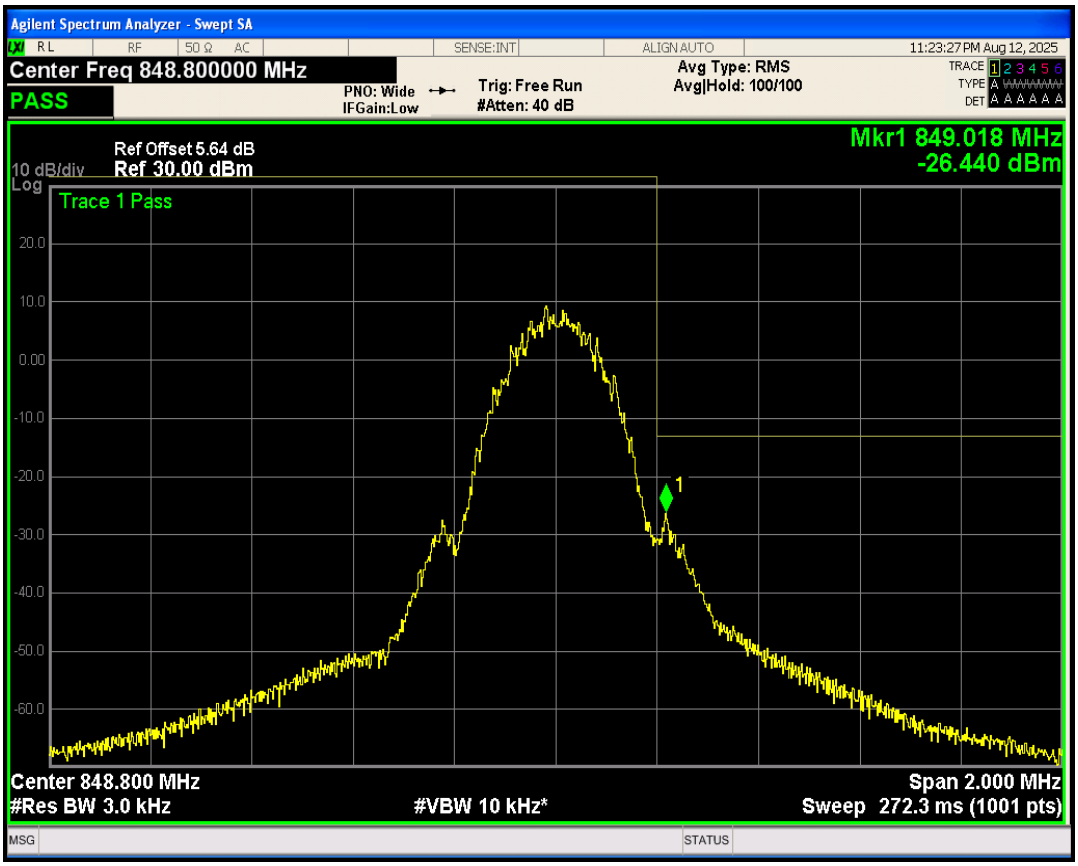
GSM1900 Channel=810



GSM850 Channel=128



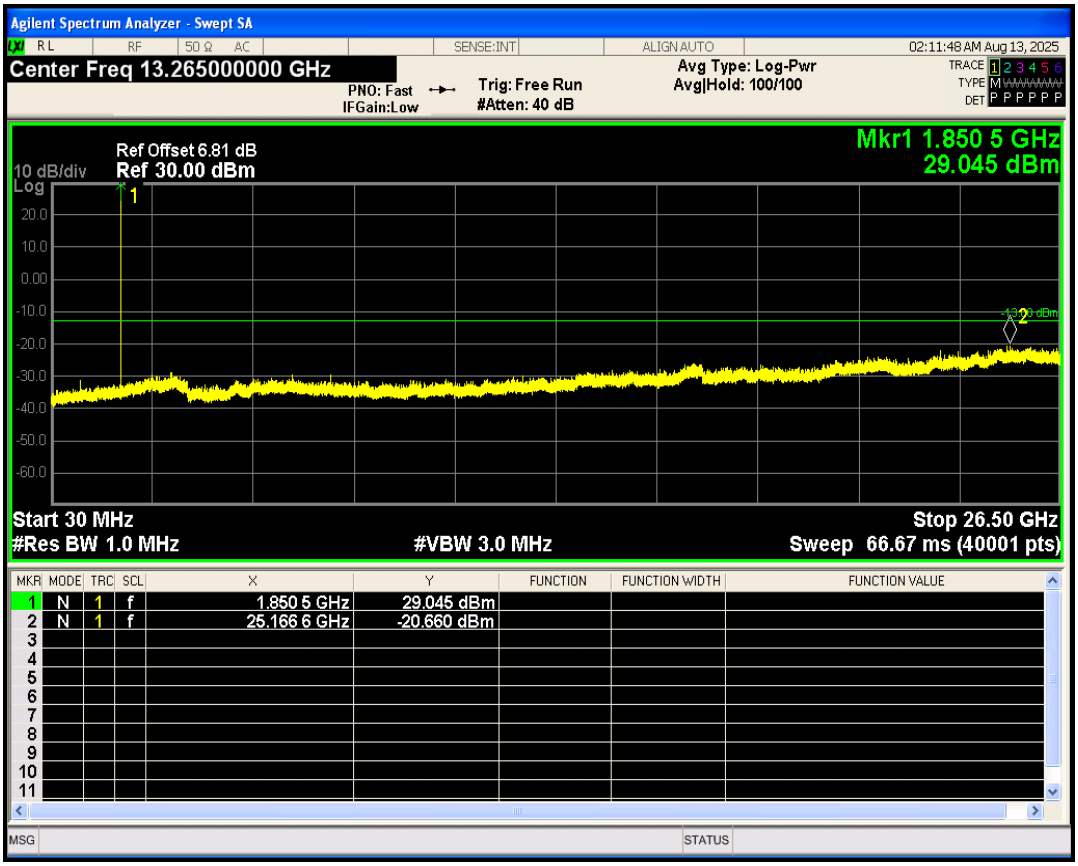
GSM850 Channel=251



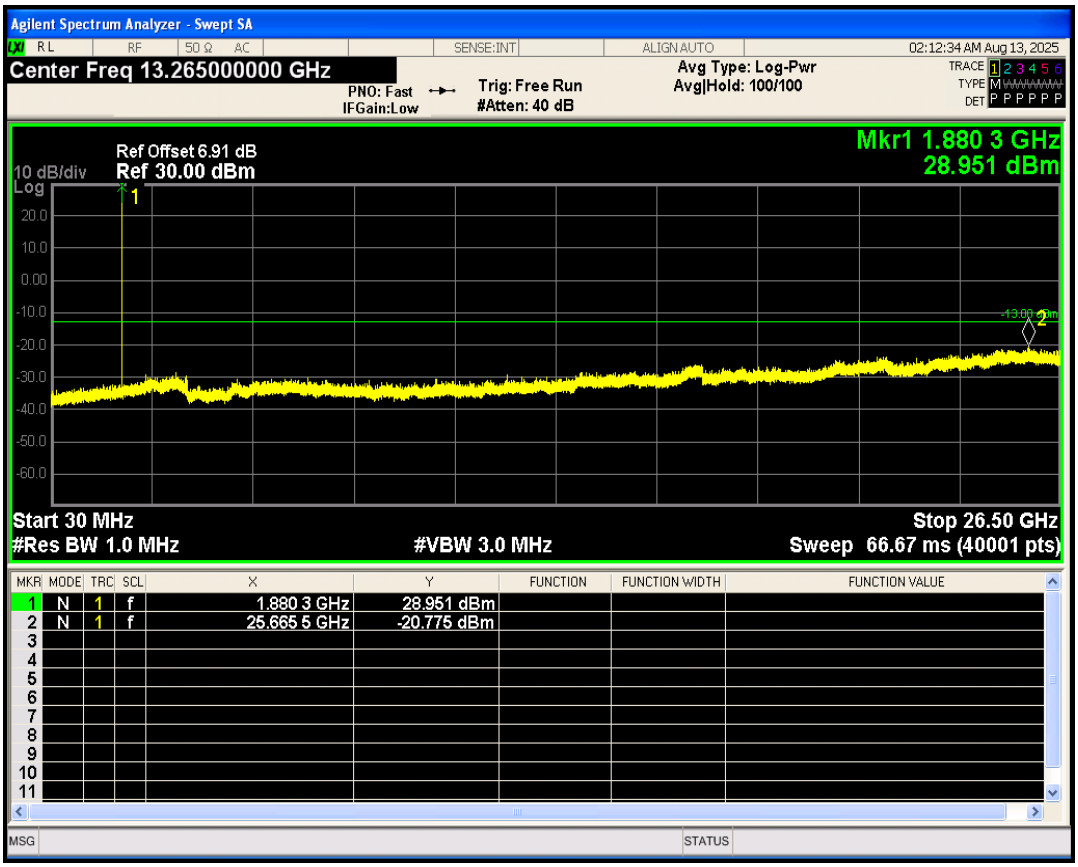
06 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM1900	512	1850.2	25166.57	-20.66	-13	PASS
GSM1900	661	1880	25665.53	-20.77	-13	PASS
GSM1900	810	1909.8	25142.75	-20.73	-13	PASS
GSM850	128	824.2	25725.75	-22.41	-13	PASS
GSM850	189	836.4	24946.21	-22.17	-13	PASS
GSM850	251	848.8	25212.23	-21.74	-13	PASS

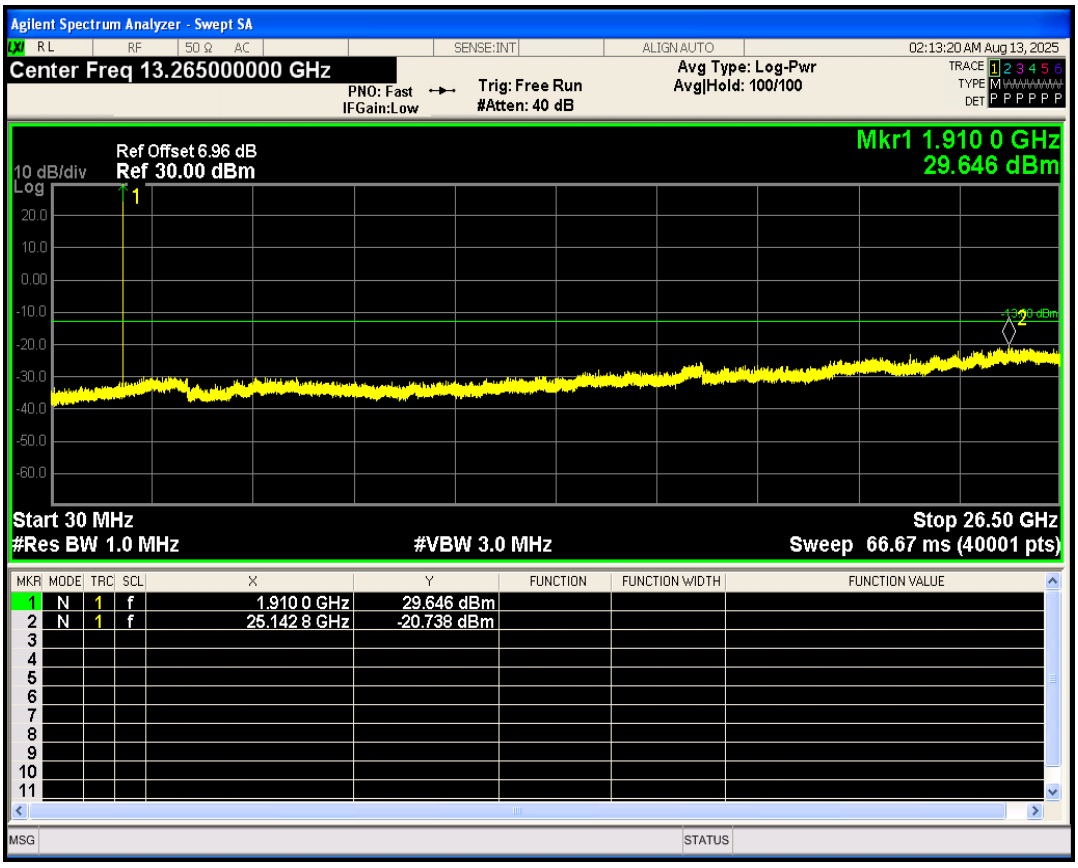
GSM1900 Channel=512



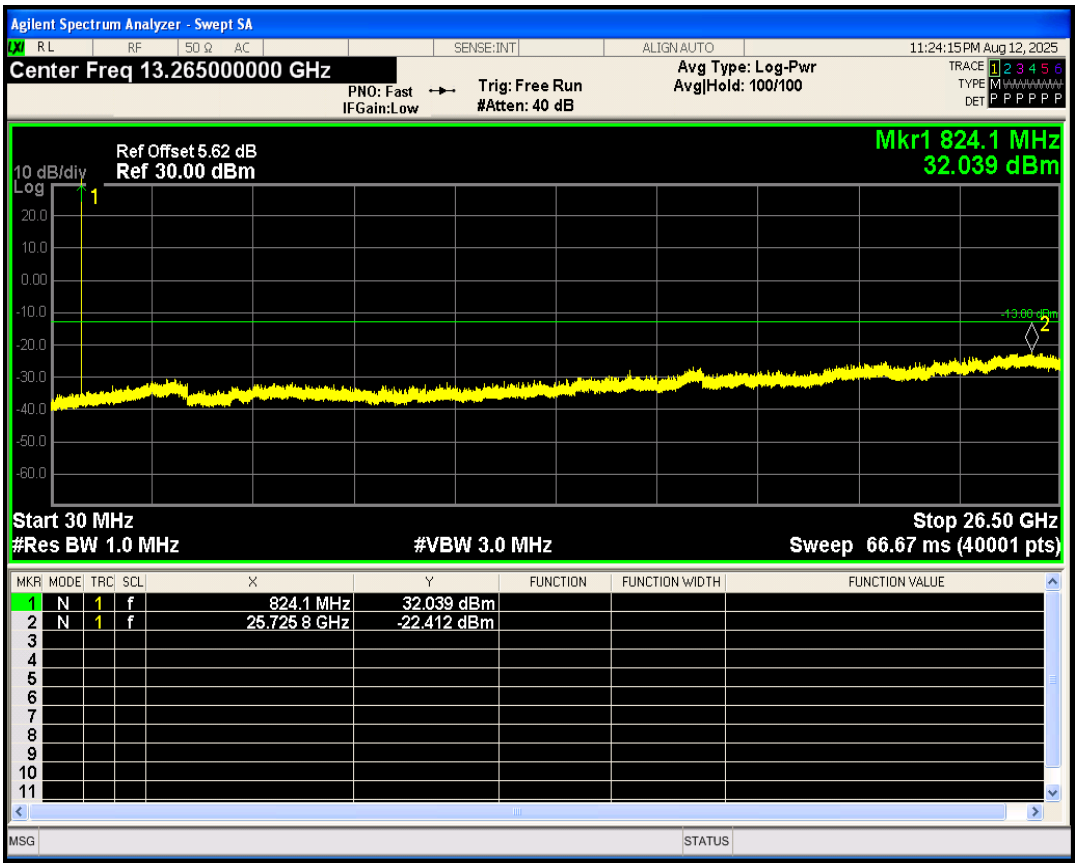
GSM1900 Channel=661



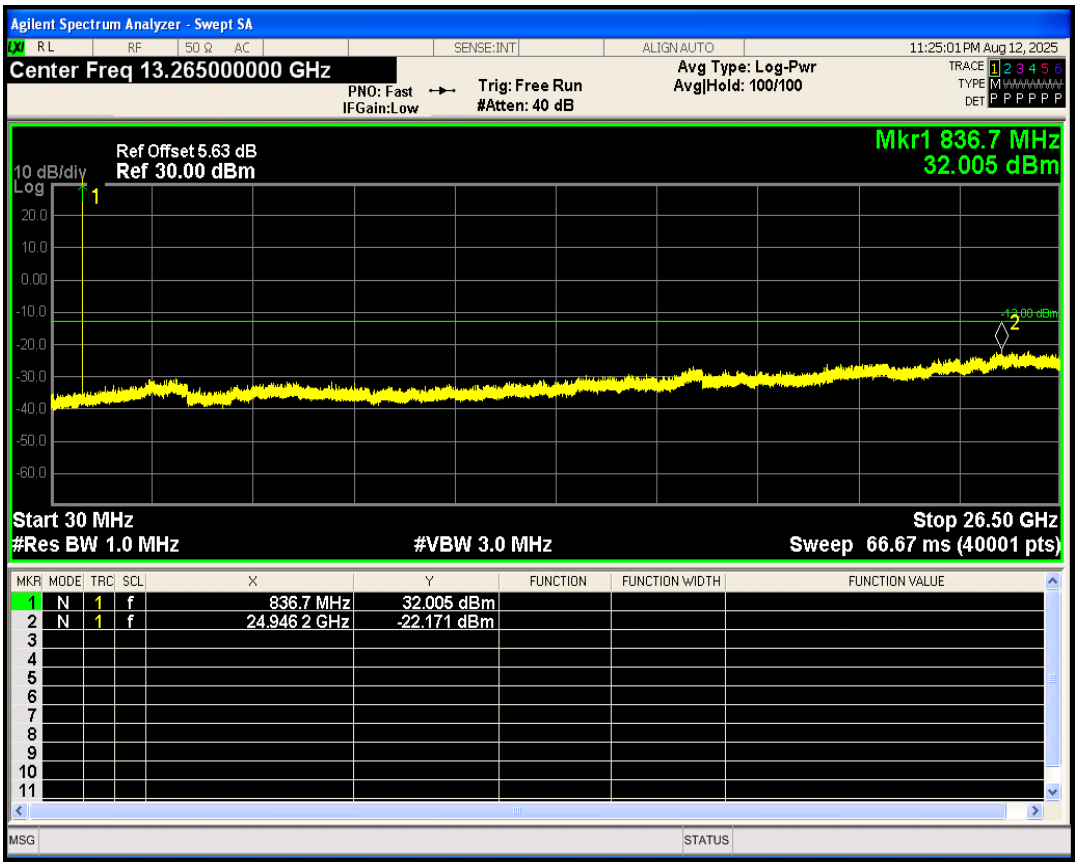
GSM1900 Channel=810



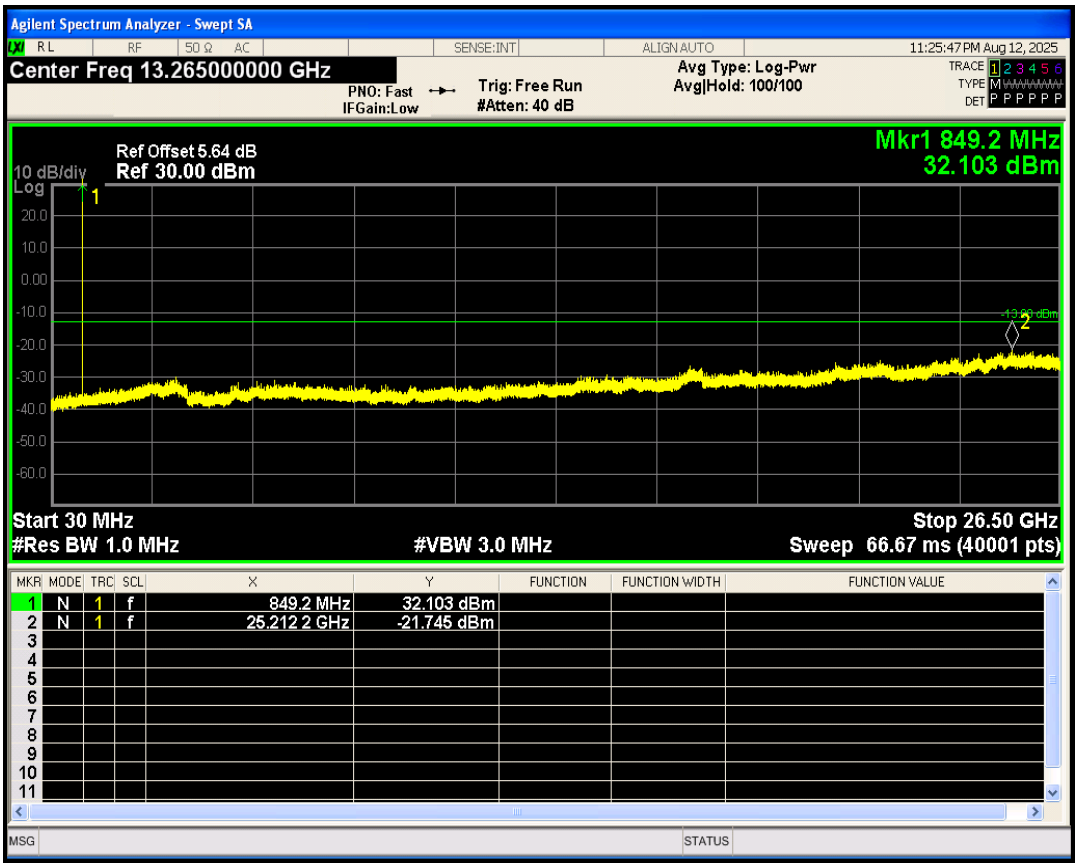
GSM850 Channel=128



GSM850 Channel=189



GSM850 Channel=251


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:25:47 PM Aug 12, 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 5.64 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr1 849.2 MHz
32.103 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 66.67 ms (40001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 849.2 MHz 32.103 dBm
2 N 1 f 25.212 2 GHz -21.745 dBm
3
4
5
6
7
8
9
10
11
MSG
STATUS