

Appendix G_GSM

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01 Conducted output power (EIRP)

Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	EIRP Limit (mW)	Verdict
NVNT	GSM1900	512	1850.2	29.27	-1.35	27.92	619.4	2000	PASS
NVNT	GSM1900	661	1880	29.19	-1.35	27.84	608.1	2000	PASS
NVNT	GSM1900	810	1909.8	28.77	-1.35	27.42	552.1	2000	PASS

01 Conducted output power (ERP)

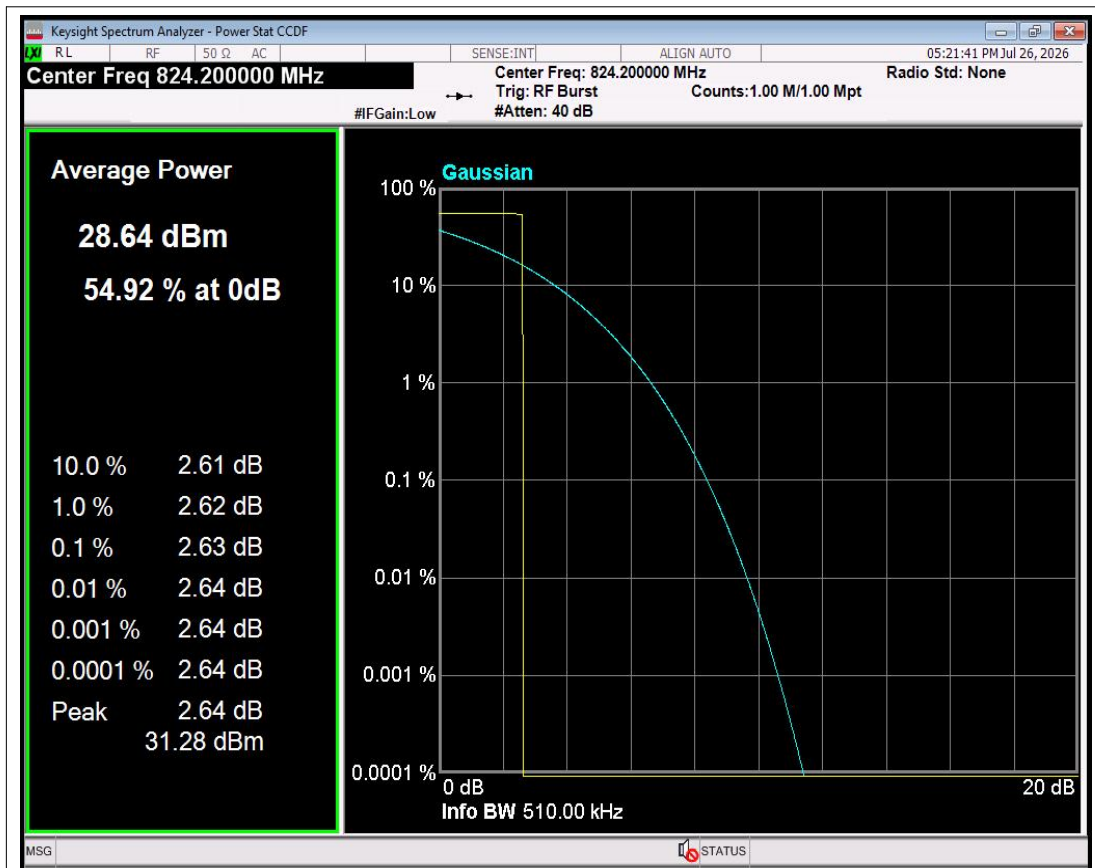
Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	ERP Limit (mW)	Verdict
NVNT	GSM850	128	824.2	31.83	-1.33	28.35	683.91	7000	PASS
NVNT	GSM850	190	836.6	31.8	-1.33	28.32	679.2	7000	PASS
NVNT	GSM850	251	848.8	31.8	-1.33	28.32	679.2	7000	PASS

02 Frequency stability

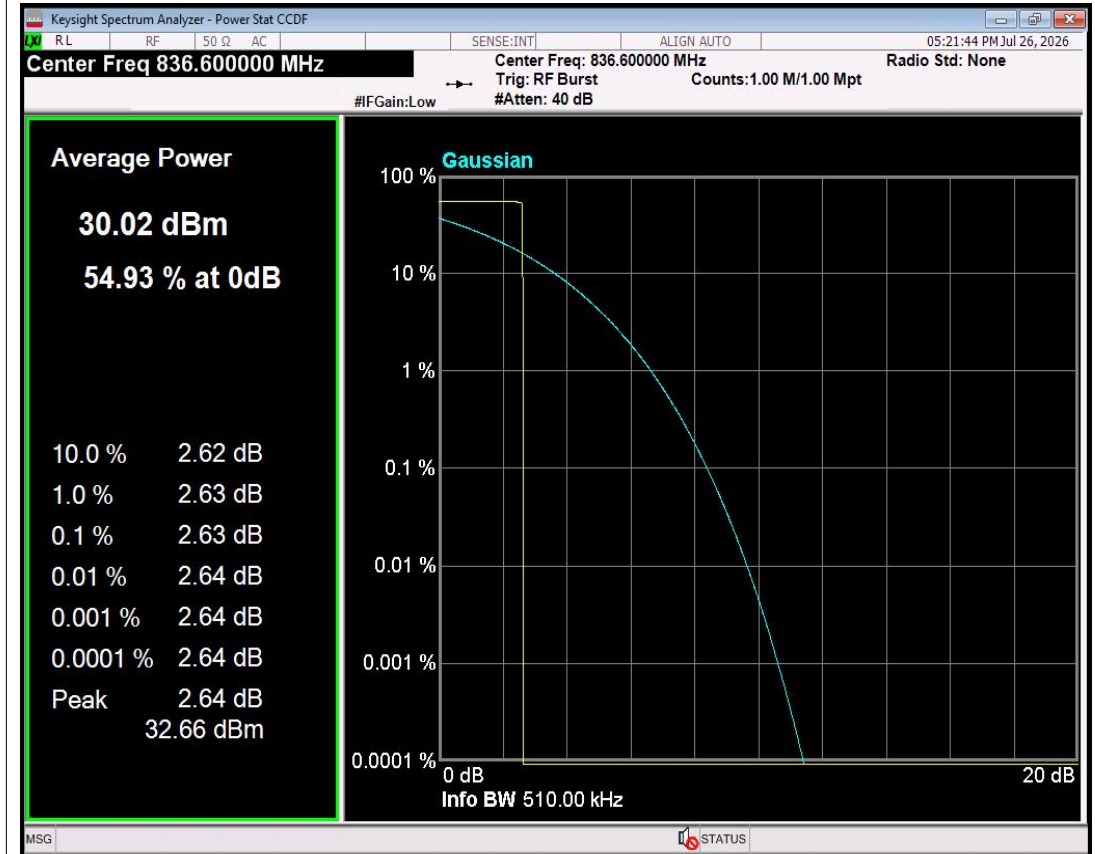
Condition	Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
NVNT	GSM850	128	824.2	0.19	0.000	-2.5	2.5	PASS
NVNT	GSM850	190	836.6	6.10	0.007	-2.5	2.5	PASS
NVNT	GSM850	251	848.8	5.84	0.007	-2.5	2.5	PASS
NVNT	GSM1900	512	1850.2	8.65	0.005	-2.5	2.5	PASS
NVNT	GSM1900	661	1880	6.49	0.003	-2.5	2.5	PASS
NVNT	GSM1900	810	1909.8	1.07	0.001	-2.5	2.5	PASS
LVLT	GSM850	128	824.2	999.00	1.212	-2.5	2.5	PASS
LVLT	GSM850	190	836.6	0.55	0.001	-2.5	2.5	PASS
LVLT	GSM850	251	848.8	4.23	0.005	-2.5	2.5	PASS
LVLT	GSM1900	512	1850.2	14.98	0.008	-2.5	2.5	PASS
LVLT	GSM1900	661	1880	14.56	0.008	-2.5	2.5	PASS
LVLT	GSM1900	810	1909.8	10.30	0.005	-2.5	2.5	PASS
LVHT	GSM850	128	824.2	4.16	0.005	-2.5	2.5	PASS
LVHT	GSM850	190	836.6	6.20	0.007	-2.5	2.5	PASS
LVHT	GSM850	251	848.8	4.29	0.005	-2.5	2.5	PASS
LVHT	GSM1900	512	1850.2	12.98	0.007	-2.5	2.5	PASS
LVHT	GSM1900	661	1880	10.85	0.006	-2.5	2.5	PASS
LVHT	GSM1900	810	1909.8	11.95	0.006	-2.5	2.5	PASS
HVLT	GSM850	128	824.2	5.42	0.007	-2.5	2.5	PASS
HVLT	GSM850	190	836.6	5.88	0.007	-2.5	2.5	PASS
HVLT	GSM850	251	848.8	4.39	0.005	-2.5	2.5	PASS
HVLT	GSM1900	512	1850.2	17.85	0.010	-2.5	2.5	PASS
HVLT	GSM1900	661	1880	14.24	0.008	-2.5	2.5	PASS
HVLT	GSM1900	810	1909.8	8.75	0.005	-2.5	2.5	PASS
HVHT	GSM850	128	824.2	5.62	0.007	-2.5	2.5	PASS
HVHT	GSM850	190	836.6	6.10	0.007	-2.5	2.5	PASS
HVHT	GSM850	251	848.8	4.26	0.005	-2.5	2.5	PASS
HVHT	GSM1900	512	1850.2	16.53	0.009	-2.5	2.5	PASS
HVHT	GSM1900	661	1880	7.43	0.004	-2.5	2.5	PASS
HVHT	GSM1900	810	1909.8	11.17	0.006	-2.5	2.5	PASS

03 Peak-to-Average Ratio

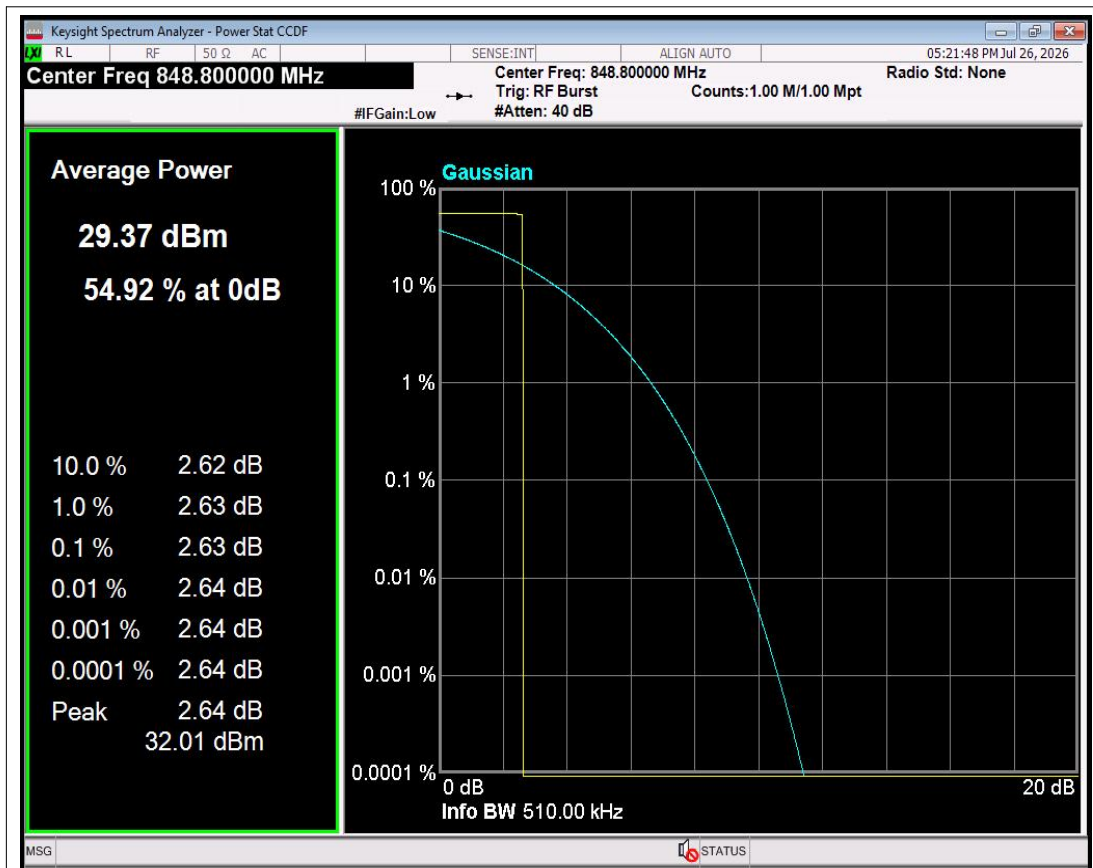
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Result (dB)</i>	<i>high Limit (dB)</i>	<i>Verdict</i>
NVNT	GSM850	128	824.2	2.63	13	PASS
NVNT	GSM850	190	836.6	2.63	13	PASS
NVNT	GSM850	251	848.8	2.63	13	PASS
NVNT	GSM1900	512	1850.2	2.66	13	PASS
NVNT	GSM1900	661	1880	2.68	13	PASS
NVNT	GSM1900	810	1909.8	2.67	13	PASS



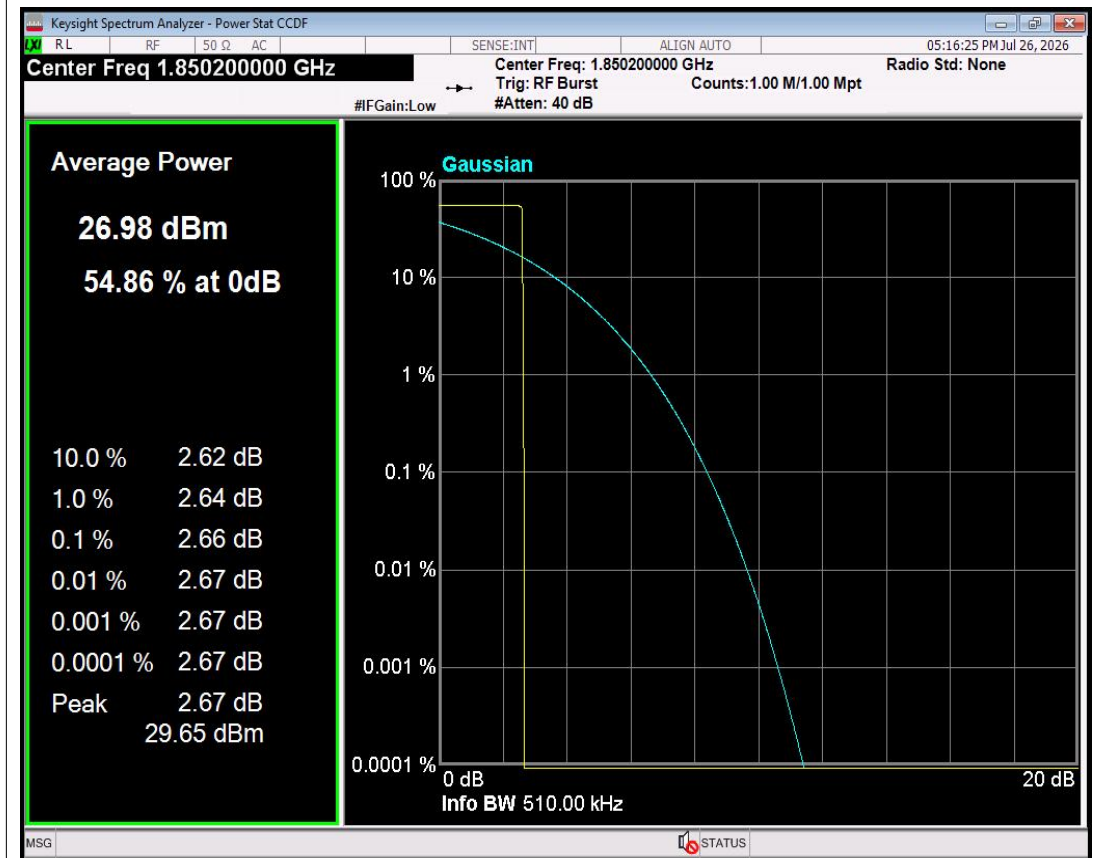
GSM850 Channel=128 NVNT



GSM850 Channel=190 NVNT



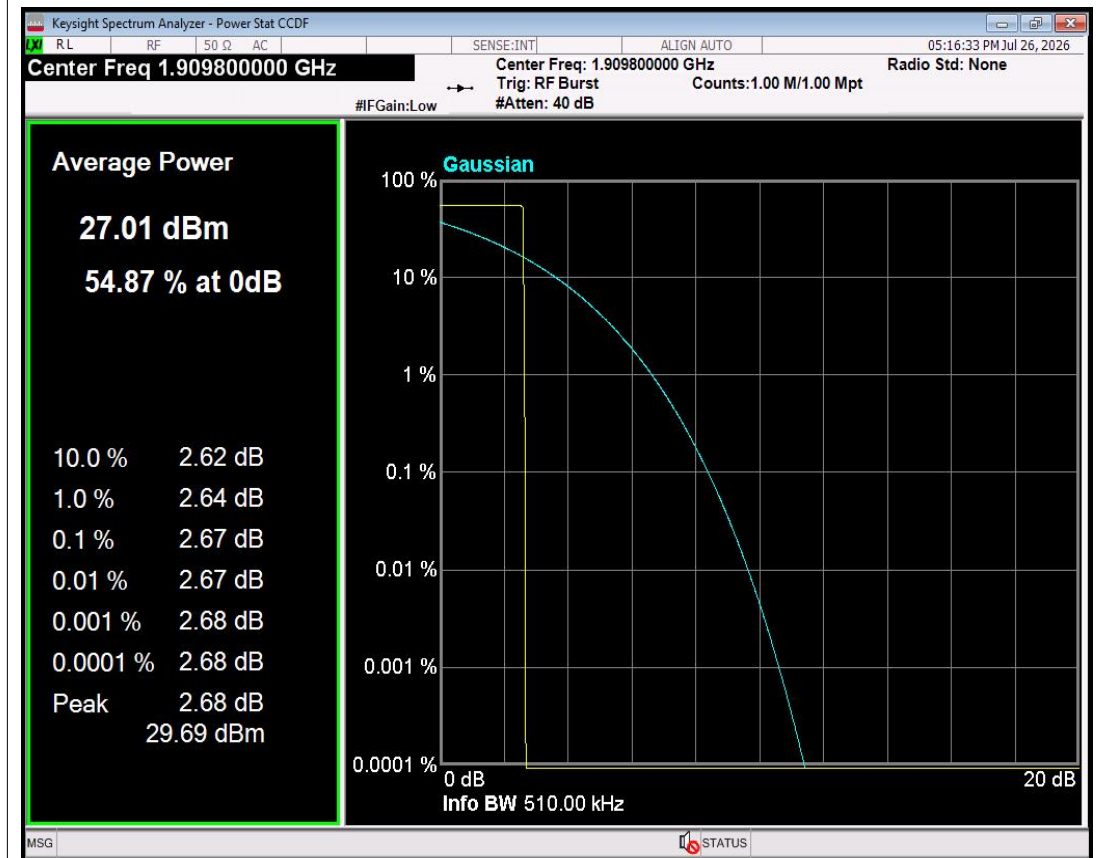
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



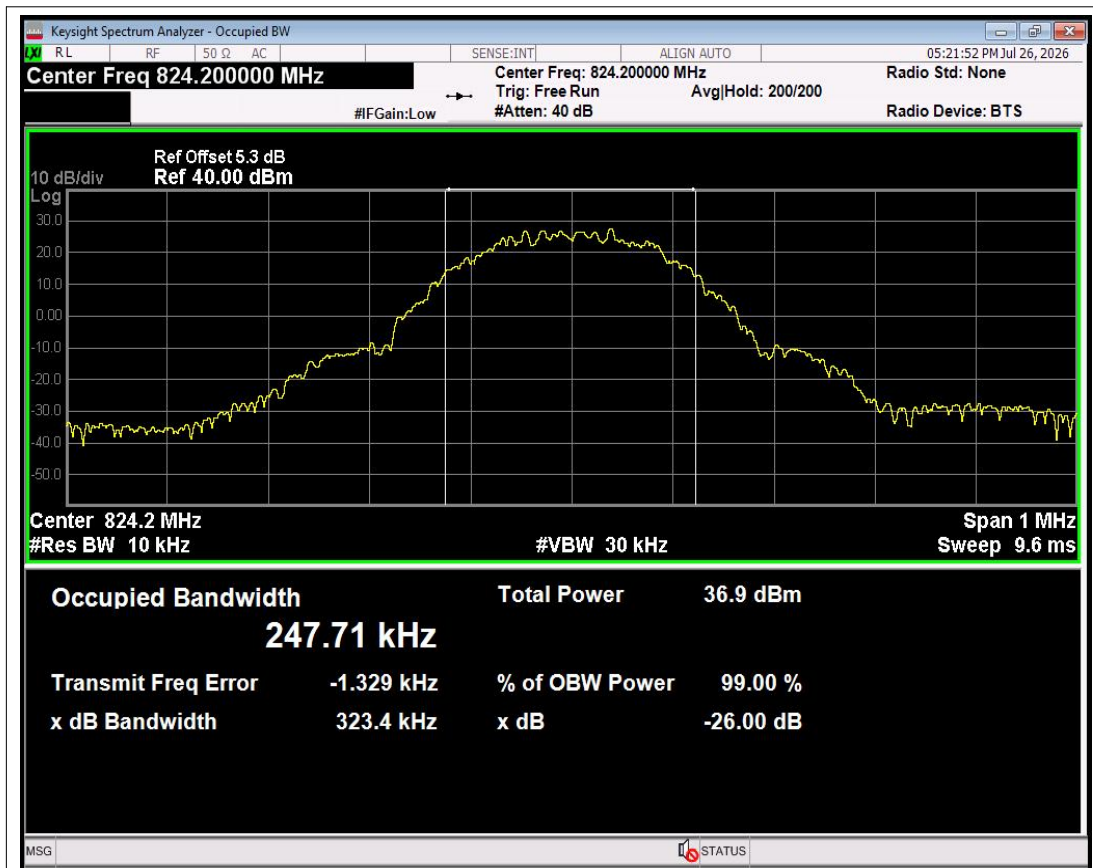
GSM1900 Channel=661 NVNT



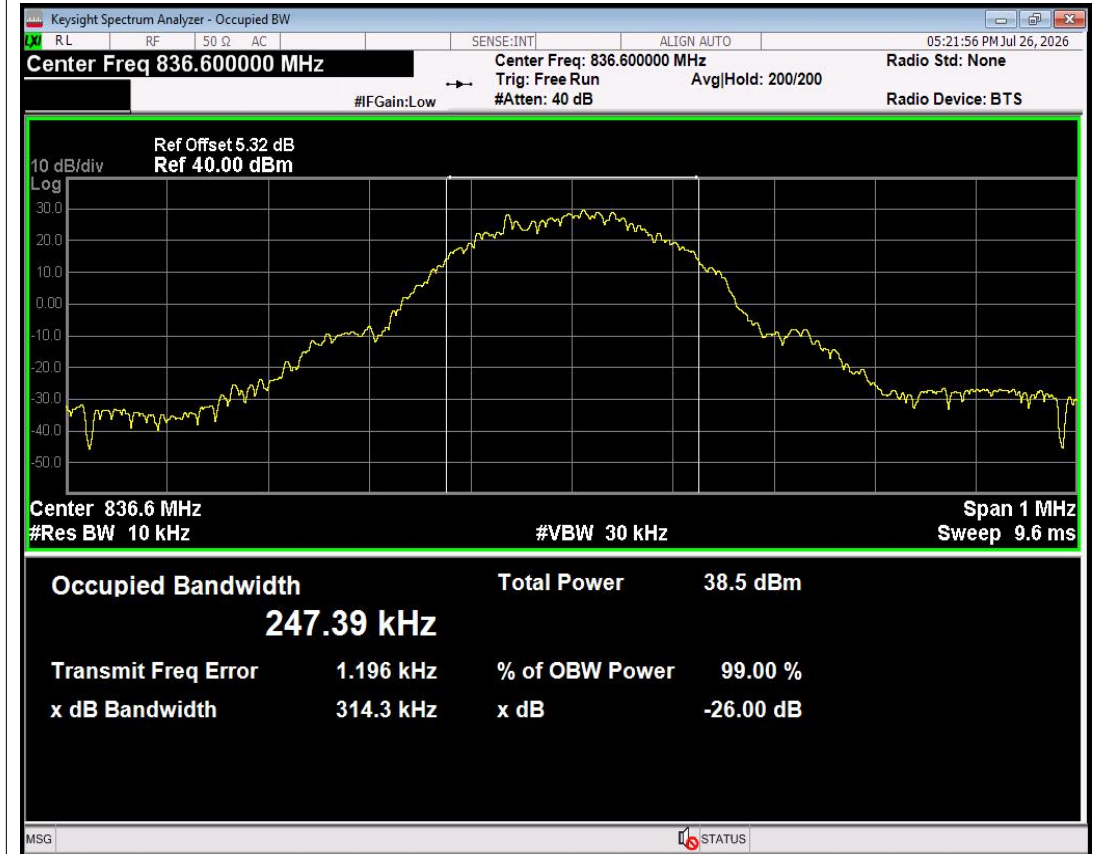
GSM1900 Channel=810 NVNT

04 Occupied bandwidth

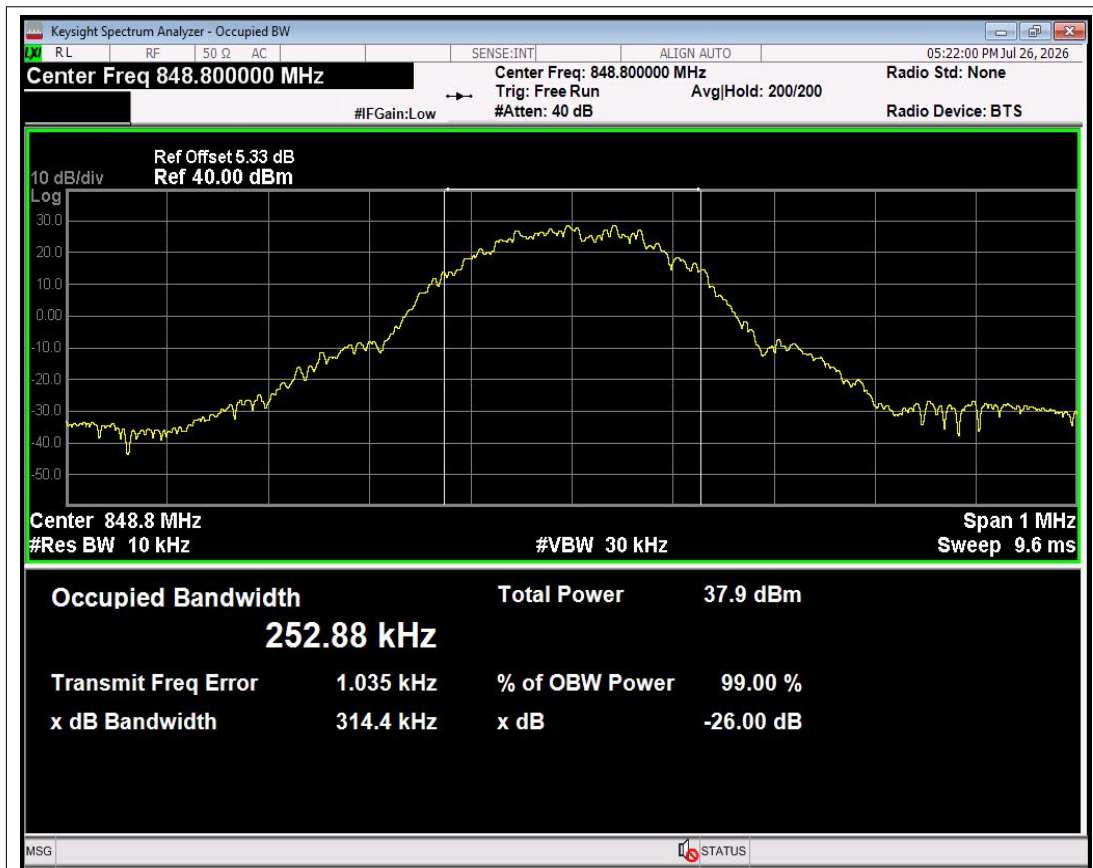
Condition	Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
NVNT	GSM850	128	824.2	247.709	323.373	PASS
NVNT	GSM850	190	836.6	247.385	314.286	PASS
NVNT	GSM850	251	848.8	252.879	314.439	PASS
NVNT	GSM1900	512	1850.2	249.993	317.488	PASS
NVNT	GSM1900	661	1880	246.922	312.410	PASS
NVNT	GSM1900	810	1909.8	246.879	308.756	PASS



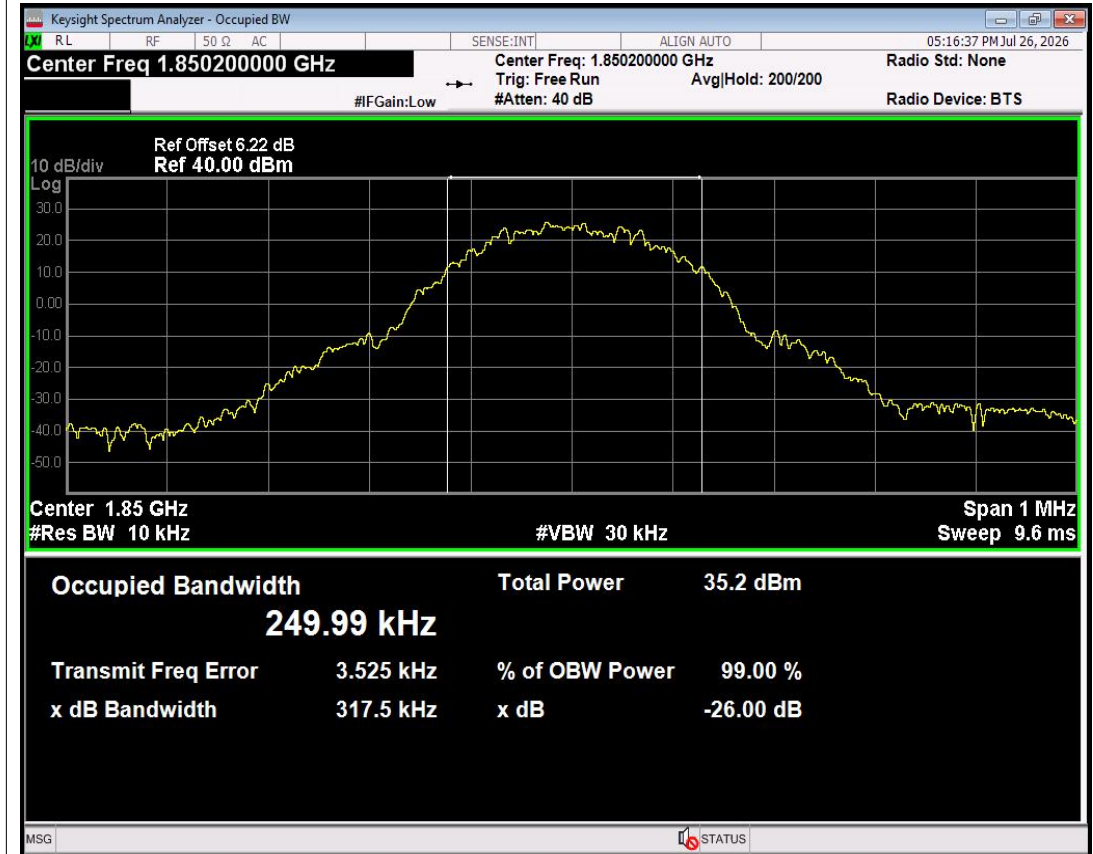
GSM850 Channel=128 NVNT



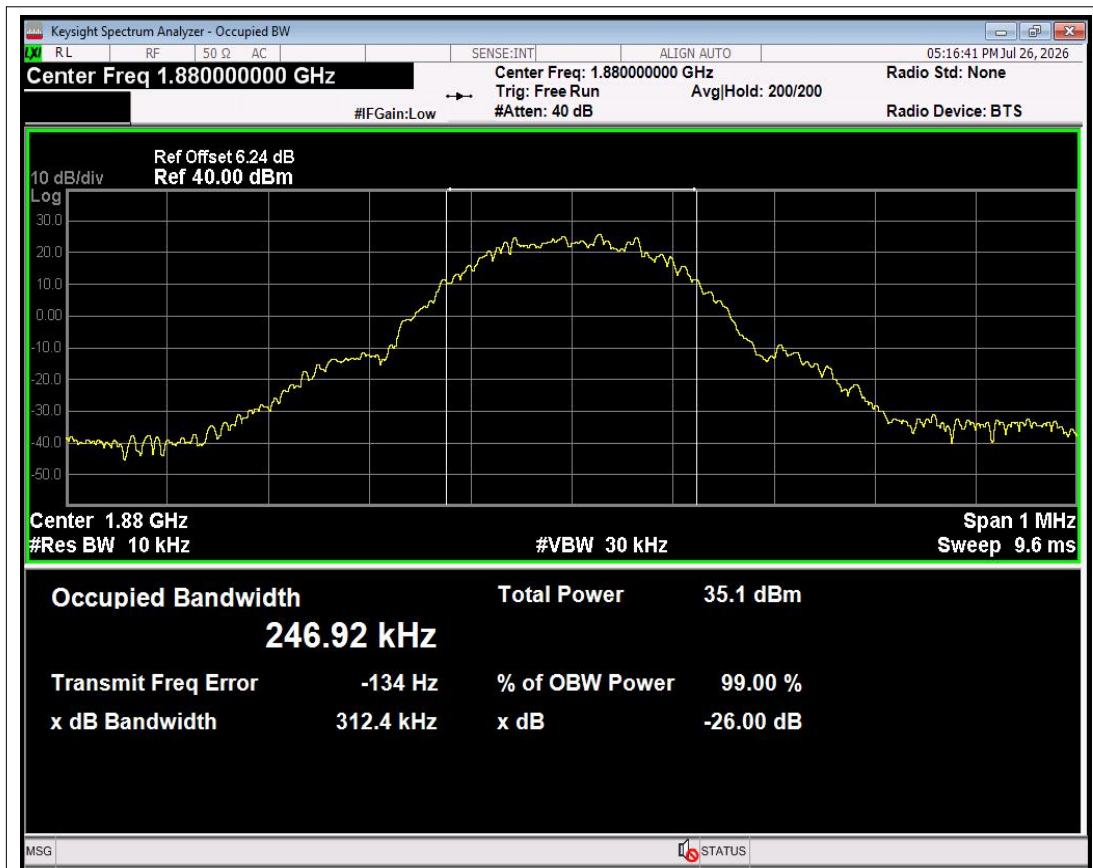
GSM850 Channel=190 NVNT



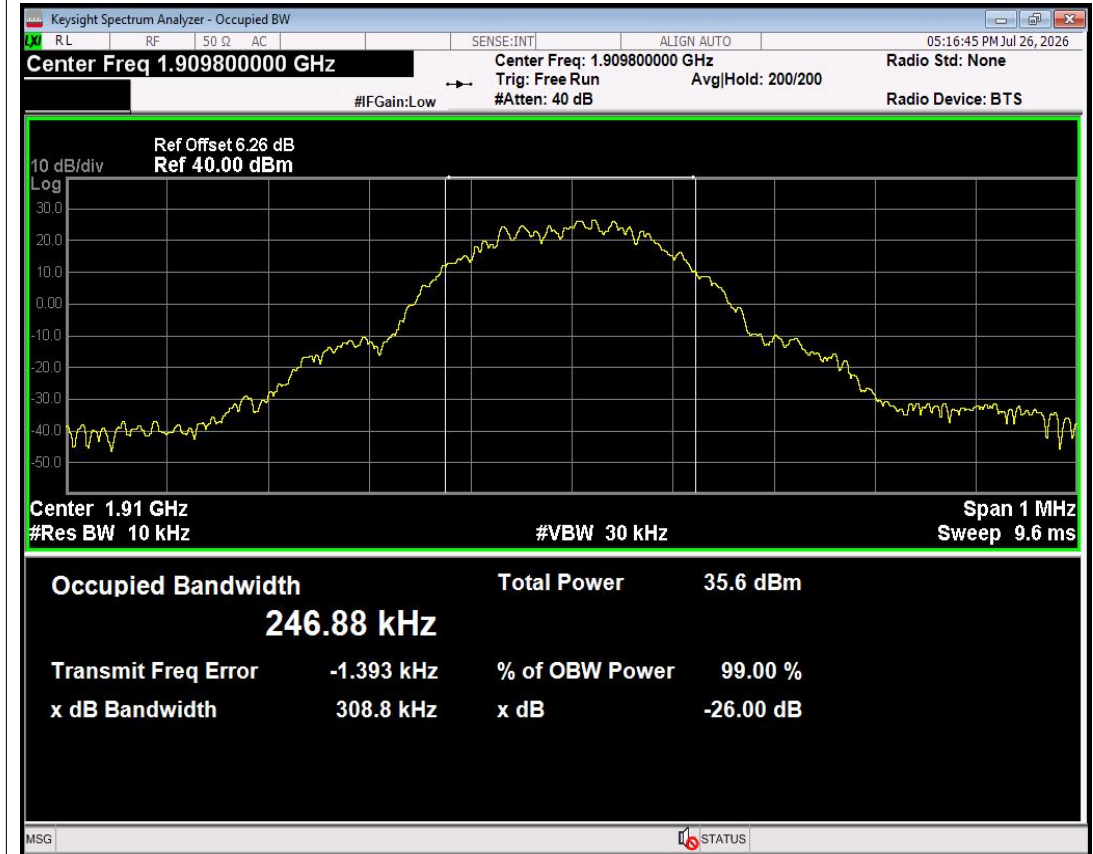
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



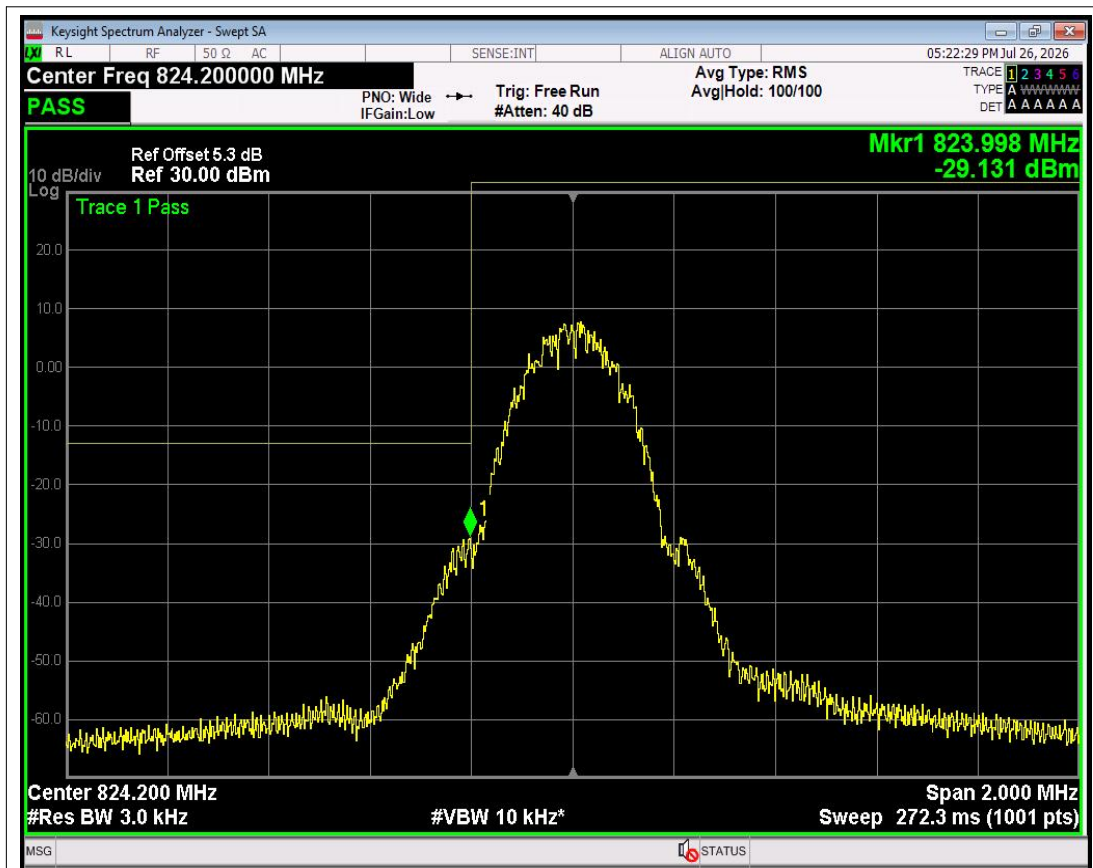
GSM1900 Channel=661 NVNT



GSM1900 Channel=810 NVNT

05 Band edge

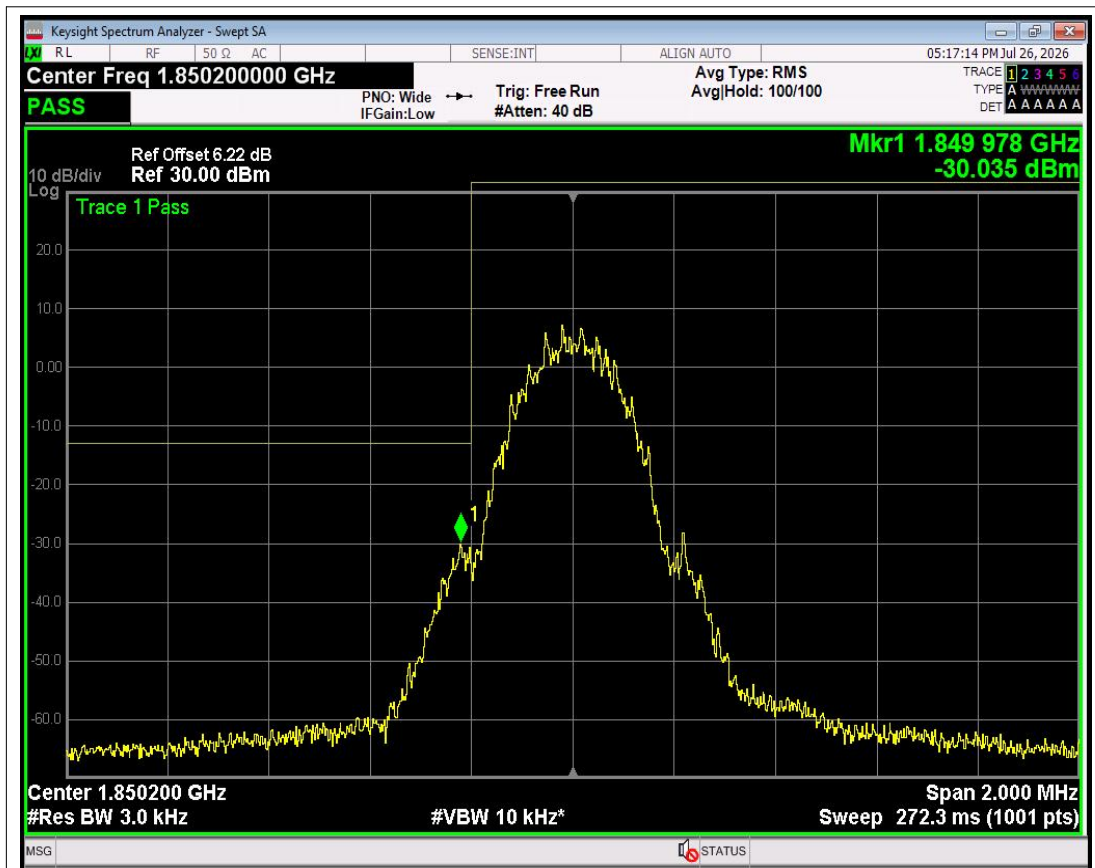
Condition	Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	GSM850	128	824.2	824.00	-29.13	-13	PASS
NVNT	GSM850	251	848.8	849.02	-27.38	-13	PASS
NVNT	GSM1900	512	1850.2	1849.98	-30.03	-13	PASS
NVNT	GSM1900	810	1909.8	1910.02	-29.36	-13	PASS



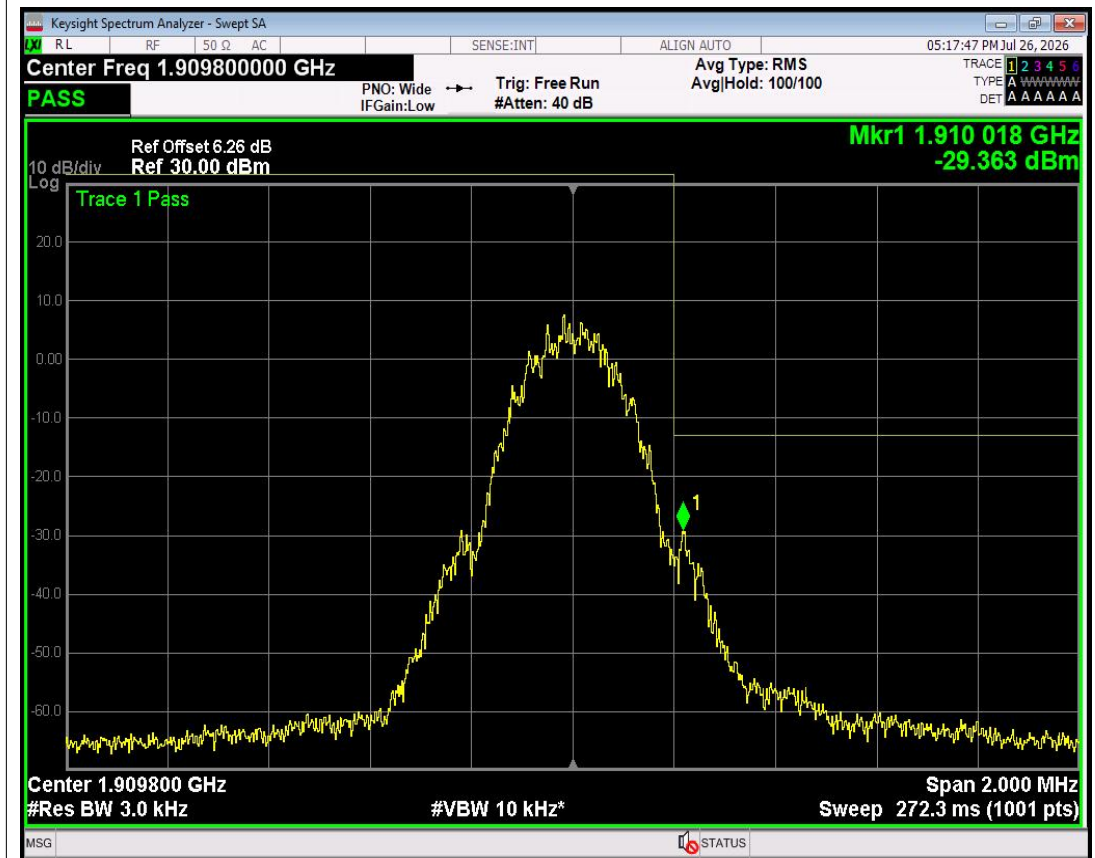
GSM850 Channel=128 NVNT



GSM850 Channel=251 NVNT



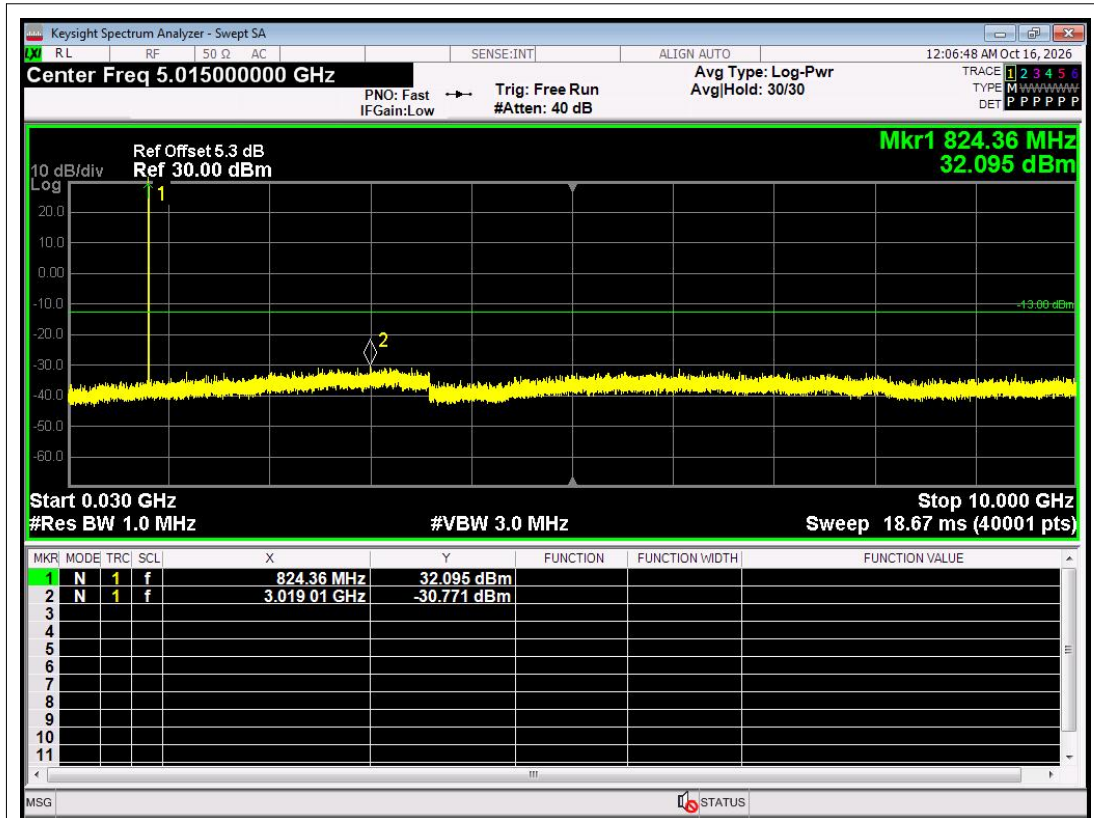
GSM1900 Channel=512 NVNT



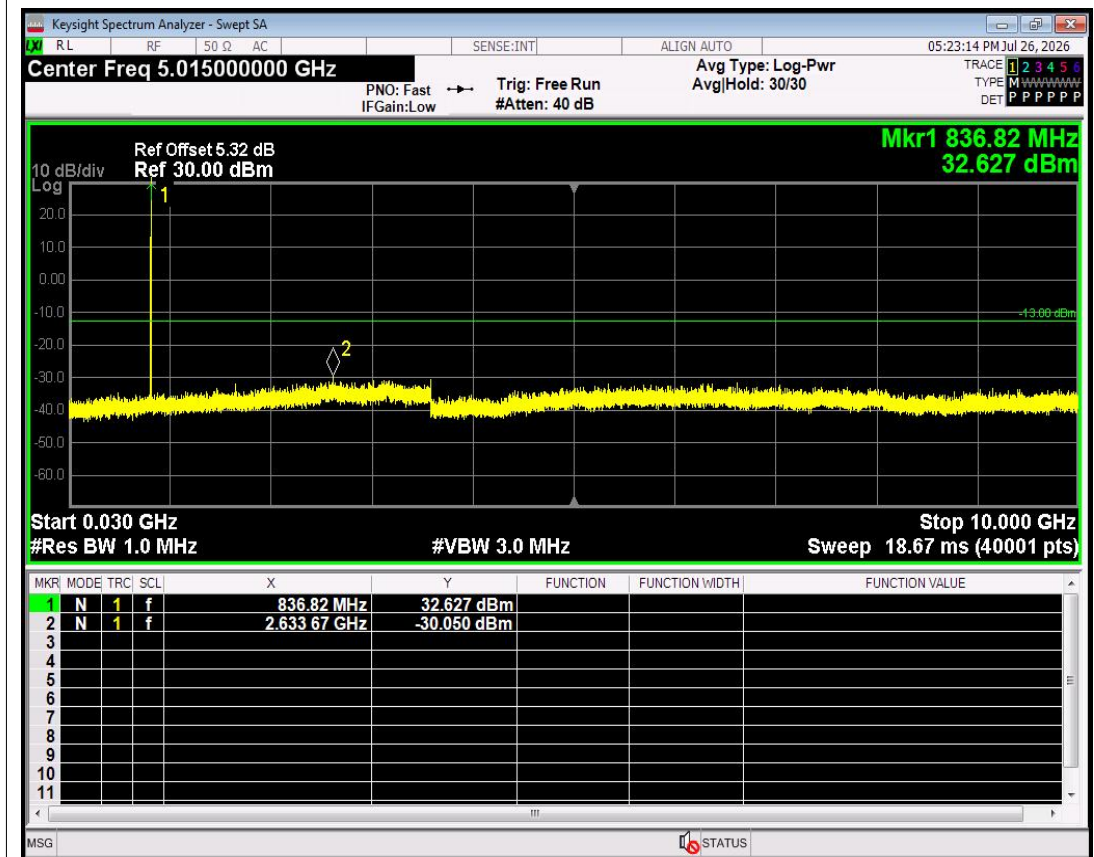
GSM1900 Channel=810 NVNT

06 Out-of-band emissions

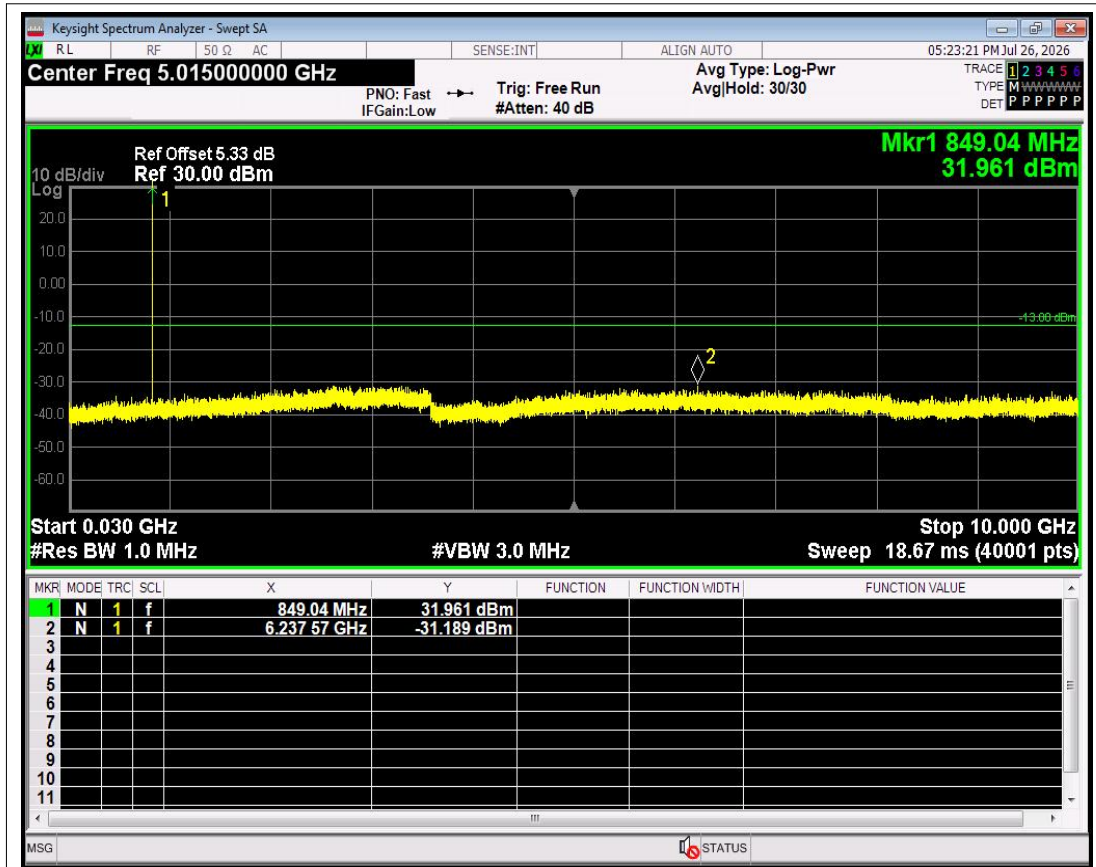
Condition	Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	GSM850	128	824.2	3019.01	-30.77	-13	PASS
NVNT	GSM850	190	836.6	2633.67	-30.05	-13	PASS
NVNT	GSM850	251	848.8	6237.57	-31.18	-13	PASS
NVNT	GSM1900	512	1850.2	19045.93	-27.16	-13	PASS
NVNT	GSM1900	661	1880	19072.89	-27.11	-13	PASS
NVNT	GSM1900	810	1909.8	19525.21	-27.62	-13	PASS



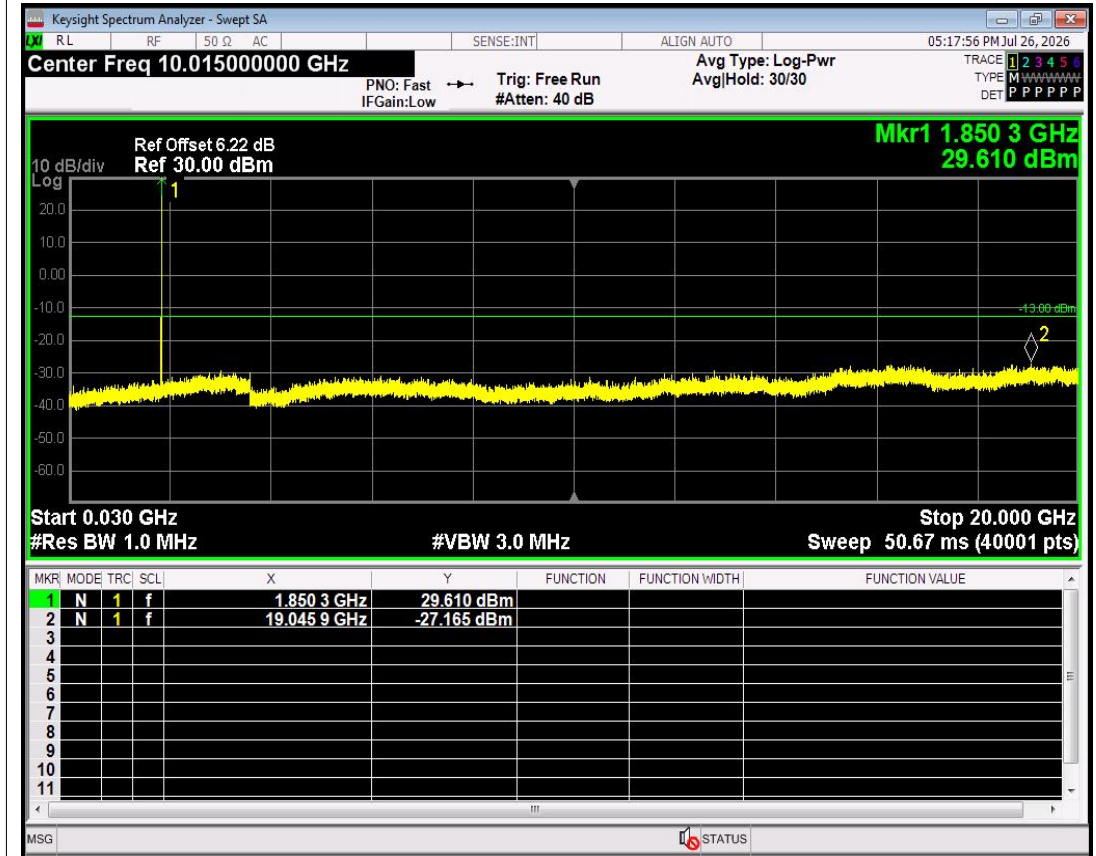
GSM850 Channel=128 NVNT



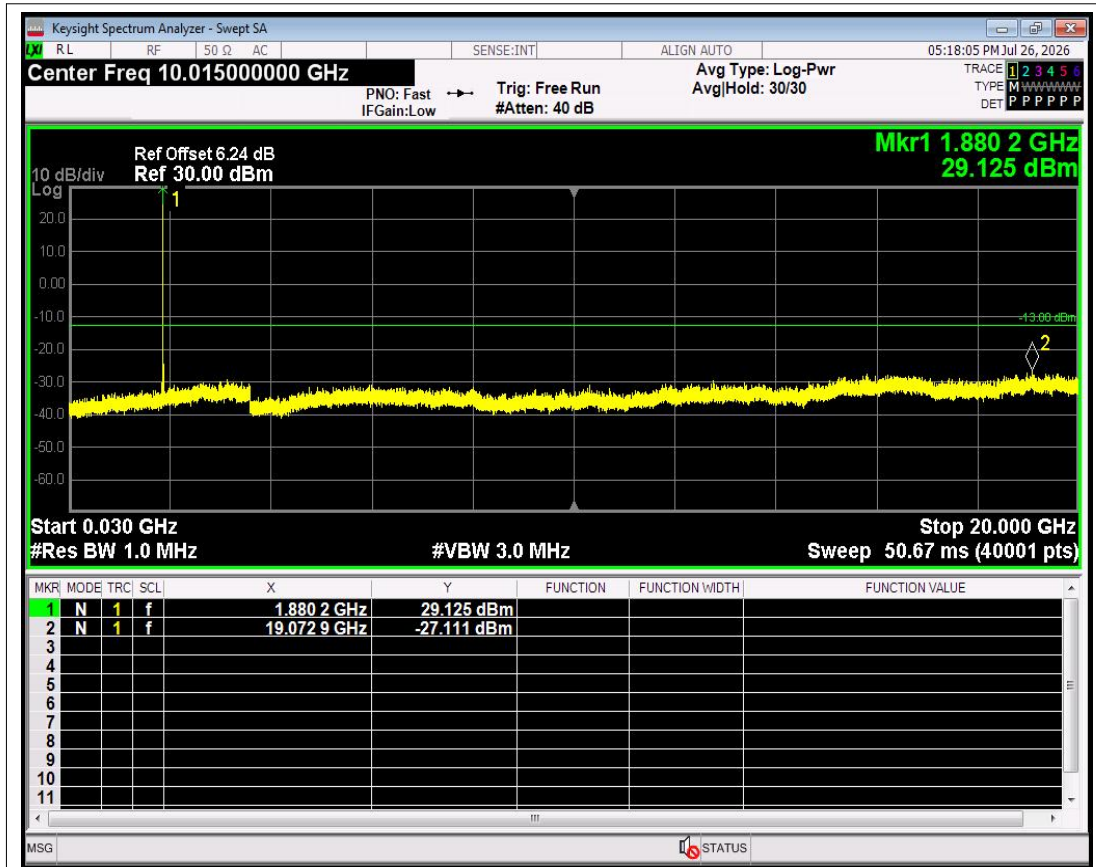
GSM850 Channel=190 NVNT



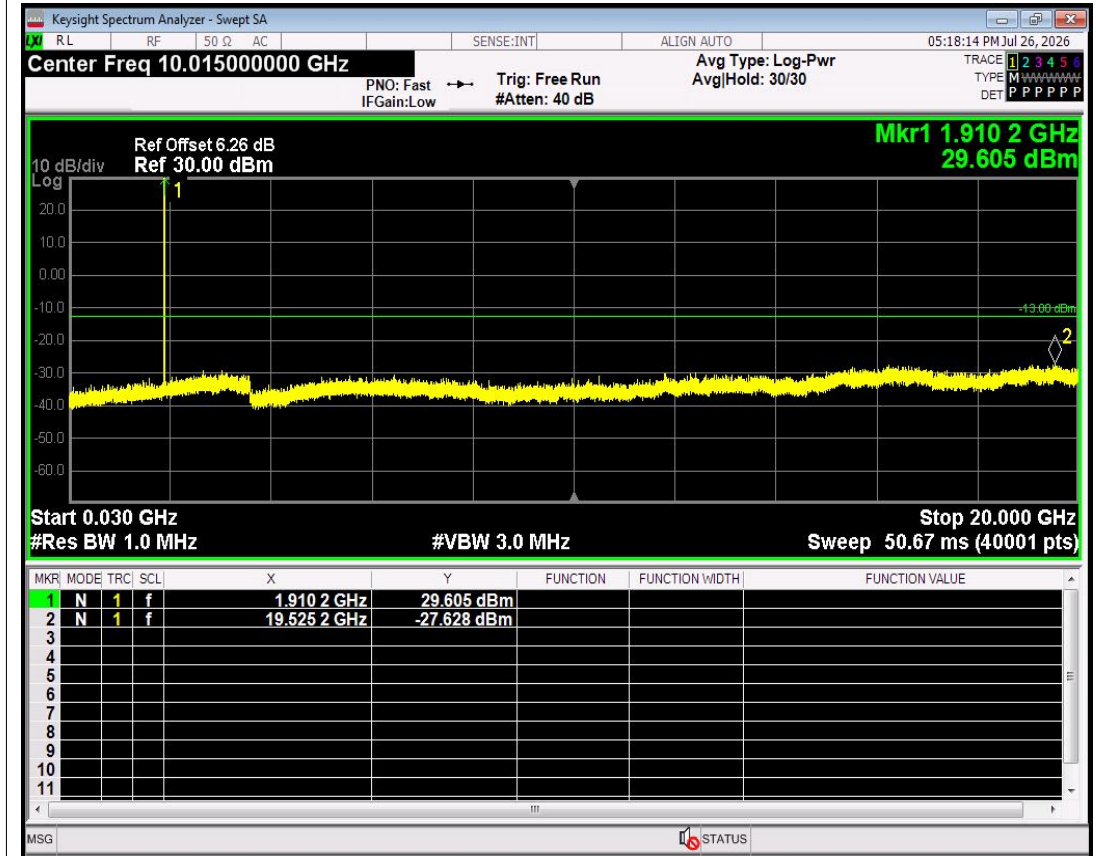
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



GSM1900 Channel=661 NVNT



GSM1900 Channel=810 NVNT

07 Conducted output power (ERP)

Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	ERP Limit (mW)	Verdict
NVNT	GPRS850 1 Slot	128	824.2	31.83804	-1.33	28.35804	685.18	7000	PASS
NVNT	GPRS850 1 Slot	190	836.6	31.87543	-1.33	28.39543	691.1	7000	PASS
NVNT	GPRS850 1 Slot	251	848.8	31.86452	-1.33	28.38452	689.37	7000	PASS
NVNT	GPRS850 2 Slot	128	824.2	31.36243	-1.33	27.88243	614.11	7000	PASS
NVNT	GPRS850 2 Slot	190	836.6	31.39301	-1.33	27.91301	618.44	7000	PASS
NVNT	GPRS850 2 Slot	251	848.8	31.31711	-1.33	27.83711	607.73	7000	PASS
NVNT	GPRS850 3 Slot	128	824.2	29.90924	-1.33	26.42924	439.46	7000	PASS
NVNT	GPRS850 3 Slot	190	836.6	29.94647	-1.33	26.46647	443.25	7000	PASS
NVNT	GPRS850 3 Slot	251	848.8	29.8569	-1.33	26.3769	434.2	7000	PASS
NVNT	GPRS850 4 Slot	128	824.2	28.84946	-1.33	25.36946	344.31	7000	PASS
NVNT	GPRS850 4 Slot	190	836.6	28.88336	-1.33	25.40336	347.01	7000	PASS
NVNT	GPRS850 4 Slot	251	848.8	28.75818	-1.33	25.27818	337.15	7000	PASS

07 Conducted output power (EIRP)

Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	EIRP Limit (mW)	Verdict
NVNT	GPRS1900 1 Slot	512	1850.2	29.25897	-1.35	27.90897	617.9	2000	PASS
NVNT	GPRS1900 1 Slot	661	1880	29.17044	-1.35	27.82044	605.4	2000	PASS
NVNT	GPRS1900 1 Slot	810	1909.8	28.76913	-1.35	27.41913	552.0	2000	PASS
NVNT	GPRS1900 2 Slot	512	1850.2	28.52597	-1.35	27.17597	521.9	2000	PASS
NVNT	GPRS1900 2 Slot	661	1880	28.4314	-1.35	27.0814	510.7	2000	PASS
NVNT	GPRS1900 2 Slot	810	1909.8	28.00406	-1.35	26.65406	462.8	2000	PASS
NVNT	GPRS1900 3 Slot	512	1850.2	26.79883	-1.35	25.44883	350.7	2000	PASS
NVNT	GPRS1900 3 Slot	661	1880	26.7196	-1.35	25.3696	344.3	2000	PASS
NVNT	GPRS1900 3 Slot	810	1909.8	26.26877	-1.35	24.91877	310.4	2000	PASS
NVNT	GPRS1900 4 Slot	512	1850.2	25.72824	-1.35	24.37824	274.0	2000	PASS
NVNT	GPRS1900 4 Slot	661	1880	25.65619	-1.35	24.30619	269.5	2000	PASS
NVNT	GPRS1900 4 Slot	810	1909.8	25.22534	-1.35	23.87534	244.1	2000	PASS

08 Frequency stability

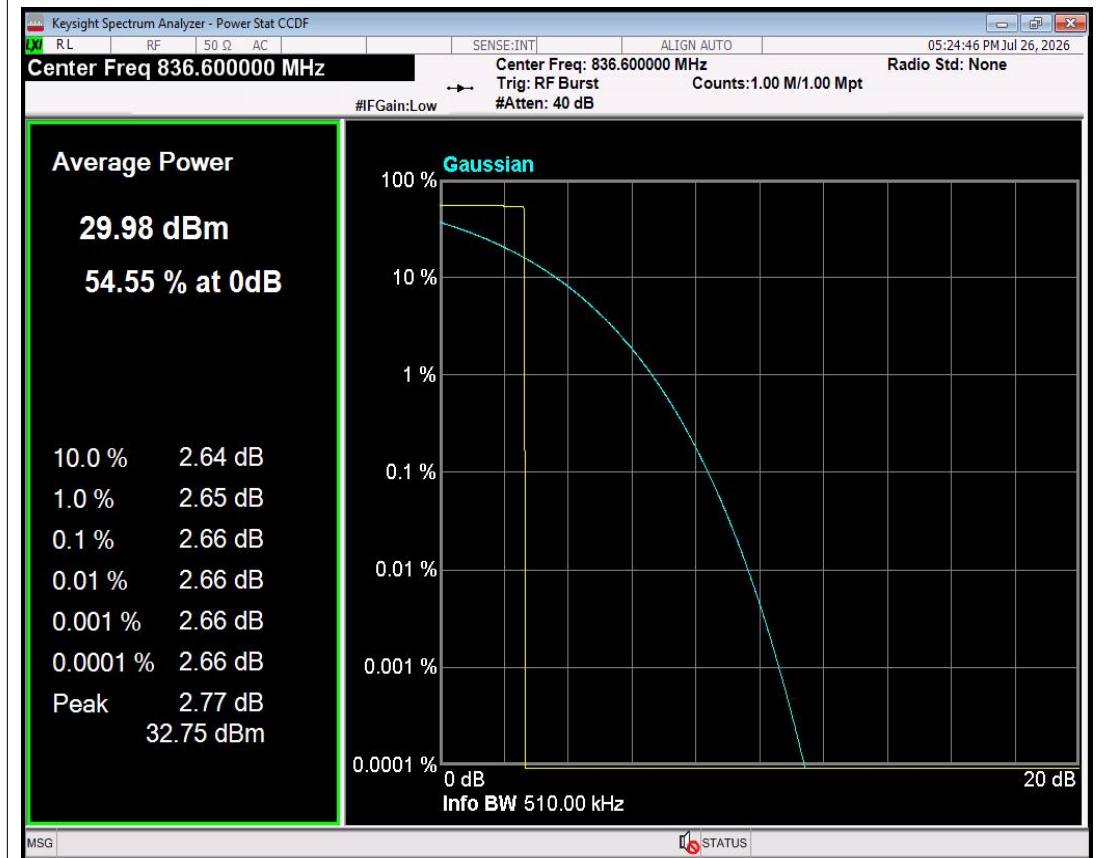
Condition	Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
NVNT	GPRS850	128	824.2	3.938874	0.00	-2.500	2.5	PASS
NVNT	GPRS850	190	836.6	3.4223	0.00	-2.500	2.5	PASS
NVNT	GPRS850	251	848.8	1.033147	0.00	-2.500	2.5	PASS
NVNT	GPRS1900	512	1850.2	14.01206	0.01	-2.500	2.5	PASS
NVNT	GPRS1900	661	1880	4.035731	0.00	-2.500	2.5	PASS
NVNT	GPRS1900	810	1909.8	9.911756	0.01	-2.500	2.5	PASS
LVLT	GPRS850	128	824.2	7.942319	0.01	-2.500	2.5	PASS
LVLT	GPRS850	190	836.6	6.747742	0.01	-2.500	2.5	PASS
LVLT	GPRS850	251	848.8	6.198883	0.01	-2.500	2.5	PASS
LVLT	GPRS1900	512	1850.2	11.1709	0.01	-2.500	2.5	PASS
LVLT	GPRS1900	661	1880	9.298325	0.00	-2.500	2.5	PASS
LVLT	GPRS1900	810	1909.8	8.814037	0.00	-2.500	2.5	PASS
LVHT	GPRS850	128	824.2	6.747742	0.01	-2.500	2.5	PASS
LVHT	GPRS850	190	836.6	4.100303	0.00	-2.500	2.5	PASS
LVHT	GPRS850	251	848.8	3.680587	0.00	-2.500	2.5	PASS
LVHT	GPRS1900	512	1850.2	12.07491	0.01	-2.500	2.5	PASS
LVHT	GPRS1900	661	1880	13.59234	0.01	-2.500	2.5	PASS
LVHT	GPRS1900	810	1909.8	7.264316	0.00	-2.500	2.5	PASS
HVLT	GPRS850	128	824.2	5.650024	0.01	-2.500	2.5	PASS
HVLT	GPRS850	190	836.6	4.132589	0.00	-2.500	2.5	PASS
HVLT	GPRS850	251	848.8	3.067156	0.00	-2.500	2.5	PASS
HVLT	GPRS1900	512	1850.2	10.20233	0.01	-2.500	2.5	PASS
HVLT	GPRS1900	661	1880	10.9449	0.01	-2.500	2.5	PASS
HVLT	GPRS1900	810	1909.8	7.910033	0.00	-2.500	2.5	PASS
HVHT	GPRS850	128	824.2	5.068878	0.01	-2.500	2.5	PASS
HVHT	GPRS850	190	836.6	5.811453	0.01	-2.500	2.5	PASS
HVHT	GPRS850	251	848.8	2.09858	0.00	-2.500	2.5	PASS
HVHT	GPRS1900	512	1850.2	8.55575	0.00	-2.500	2.5	PASS
HVHT	GPRS1900	661	1880	11.59062	0.01	-2.500	2.5	PASS
HVHT	GPRS1900	810	1909.8	8.103748	0.00	-2.500	2.5	PASS

09 Peak-to-Average Ratio

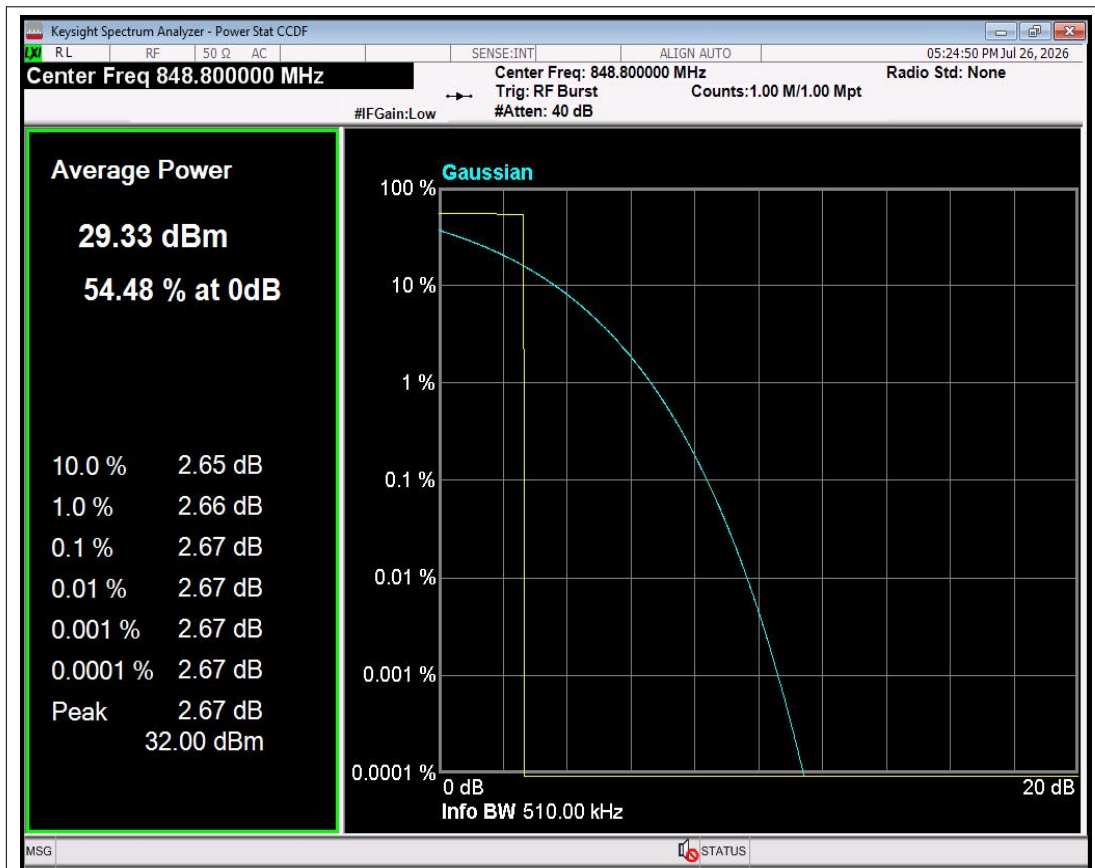
Condition	Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
NVNT	GPRS850	128	824.2	2.663656474	13.00	PASS
NVNT	GPRS850	190	836.6	2.659536905	13.00	PASS
NVNT	GPRS850	251	848.8	2.668665061	13.00	PASS
NVNT	GPRS1900	512	1850.2	2.699760397	13.00	PASS
NVNT	GPRS1900	661	1880	2.709341605	13.00	PASS
NVNT	GPRS1900	810	1909.8	2.695321888	13.00	PASS



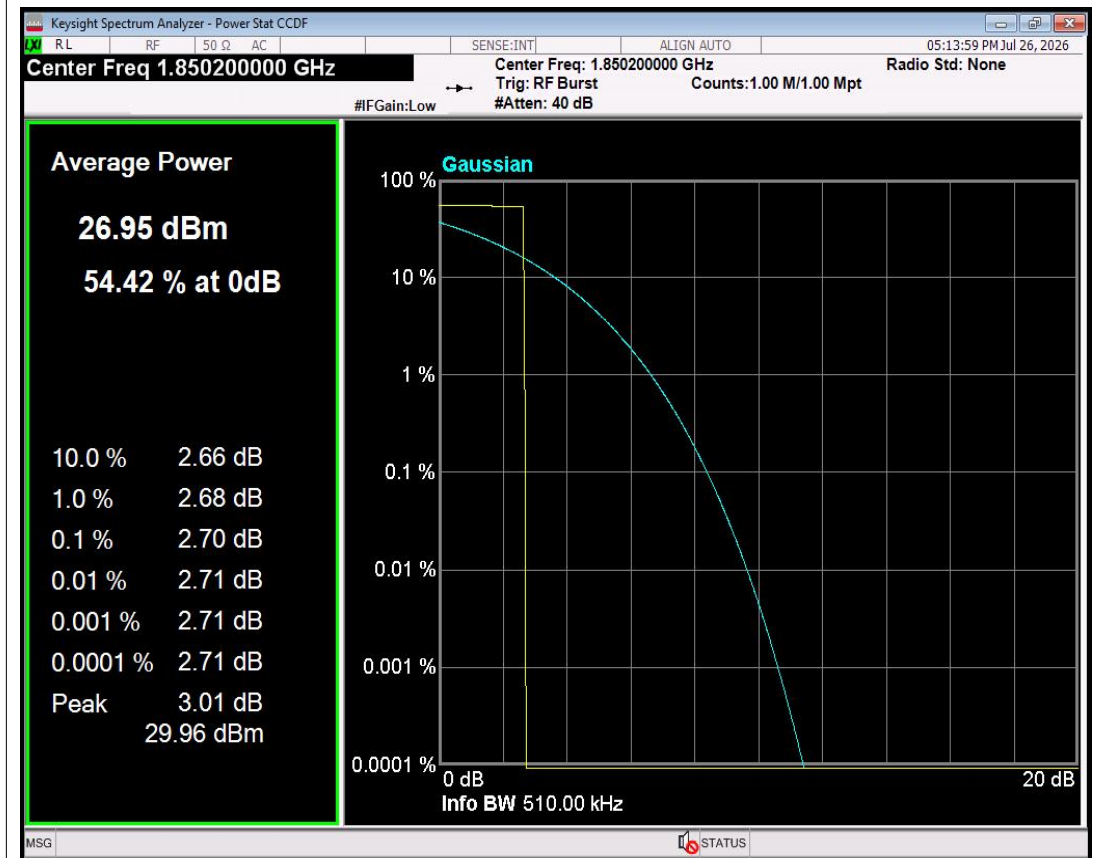
GPRS850 Channel=128 NVNT



GPRS850 Channel=190 NVNT



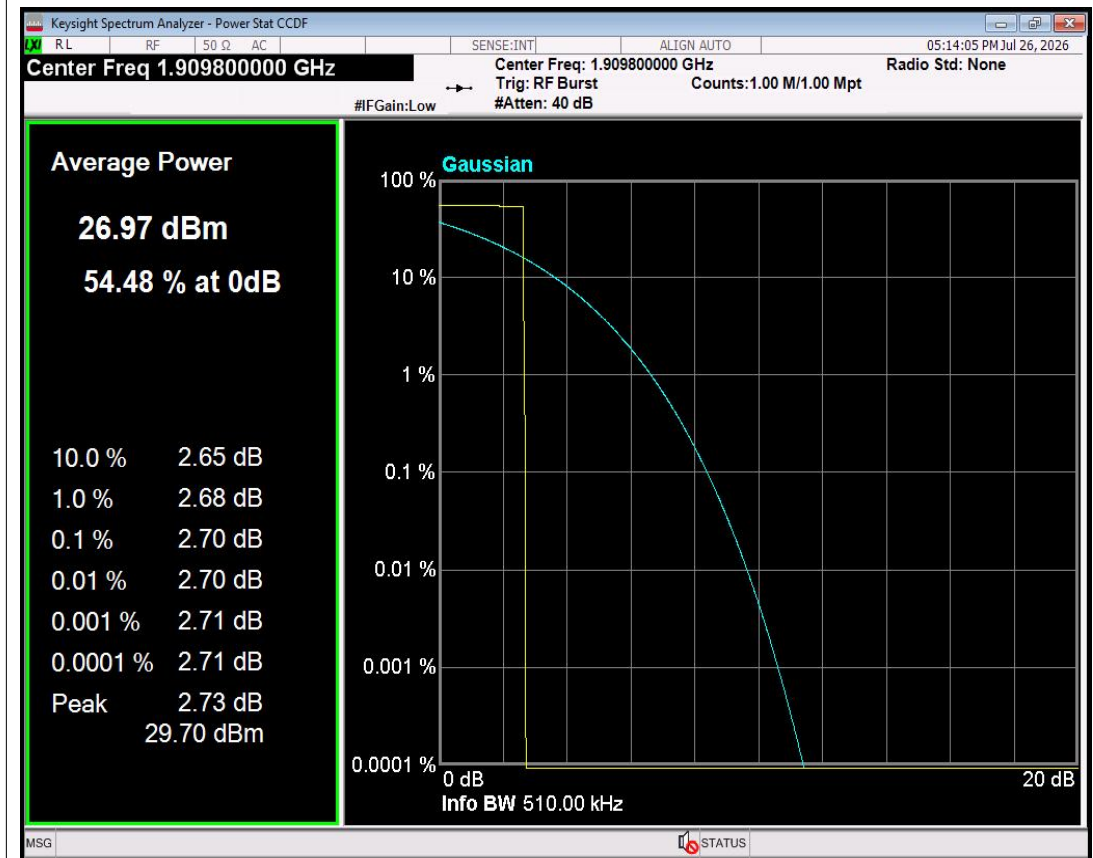
GPRS850 Channel=251 NVNT



GPRS1900 Channel=512 NVNT



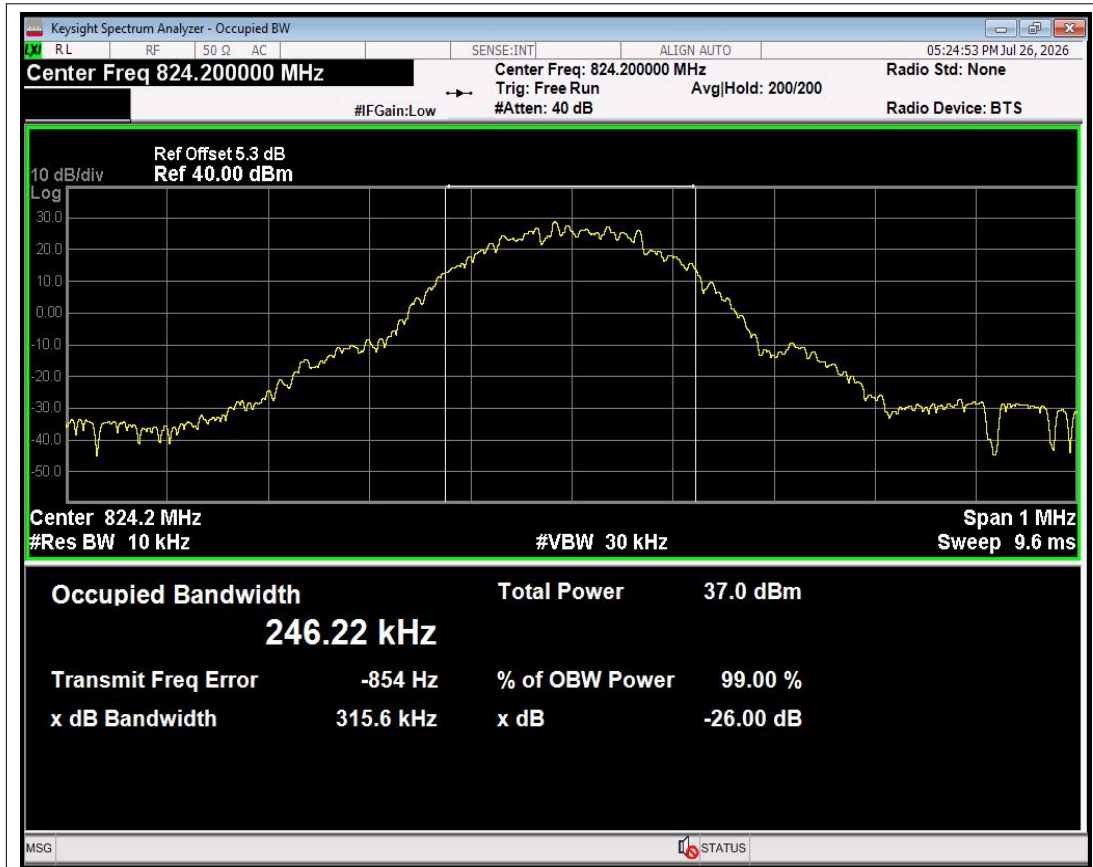
GPRS1900 Channel=661 NVNT



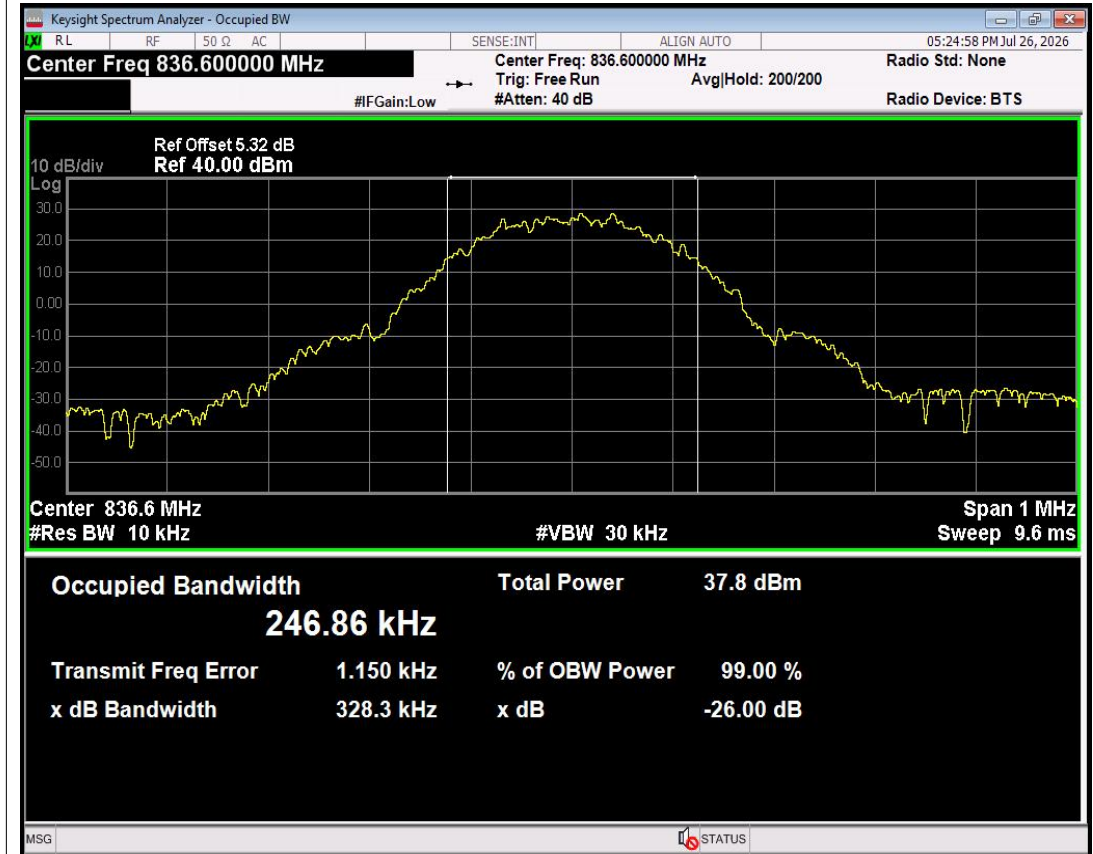
GPRS1900 Channel=810 NVNT

10 Occupied bandwidth

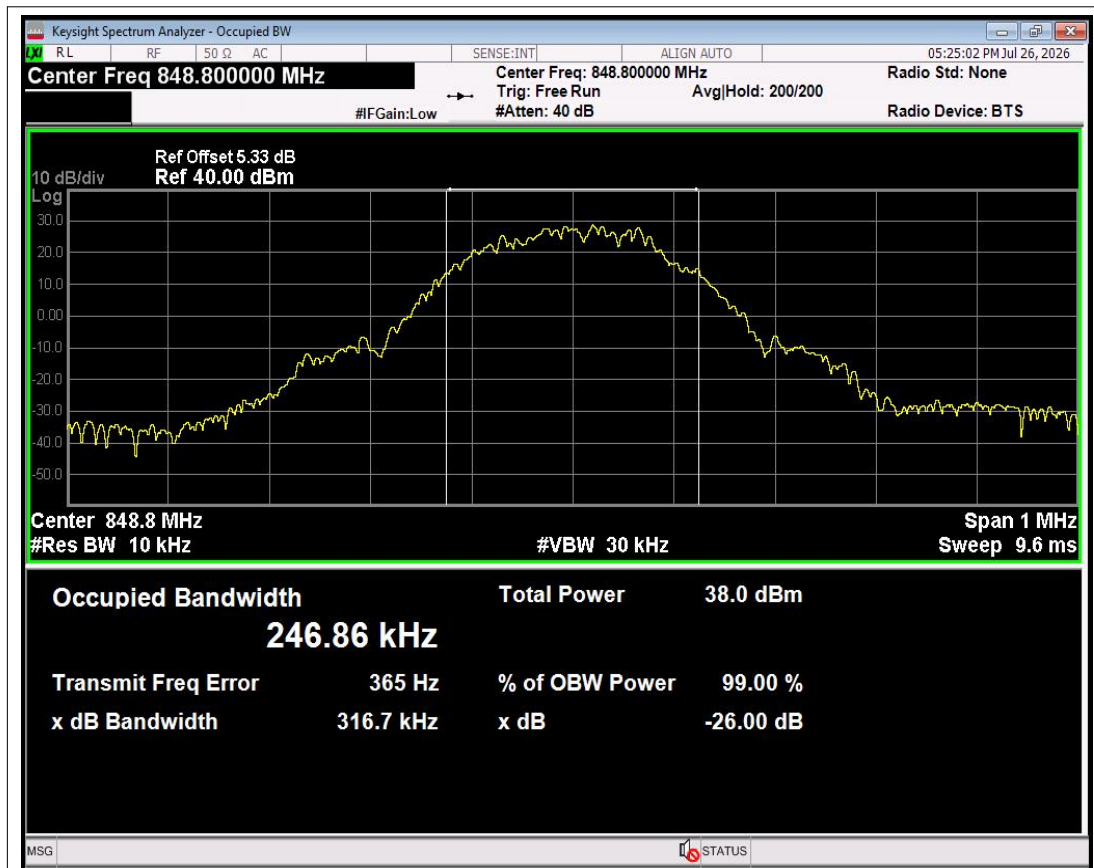
Condition	Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
NVNT	GPRS850	128	824.2	246.222	315.569	PASS
NVNT	GPRS850	190	836.6	246.858	328.318	PASS
NVNT	GPRS850	251	848.8	246.857	316.675	PASS
NVNT	GPRS1900	512	1850.2	239.758	307.438	PASS
NVNT	GPRS1900	661	1880	244.034	313.994	PASS
NVNT	GPRS1900	810	1909.8	244.464	316.900	PASS



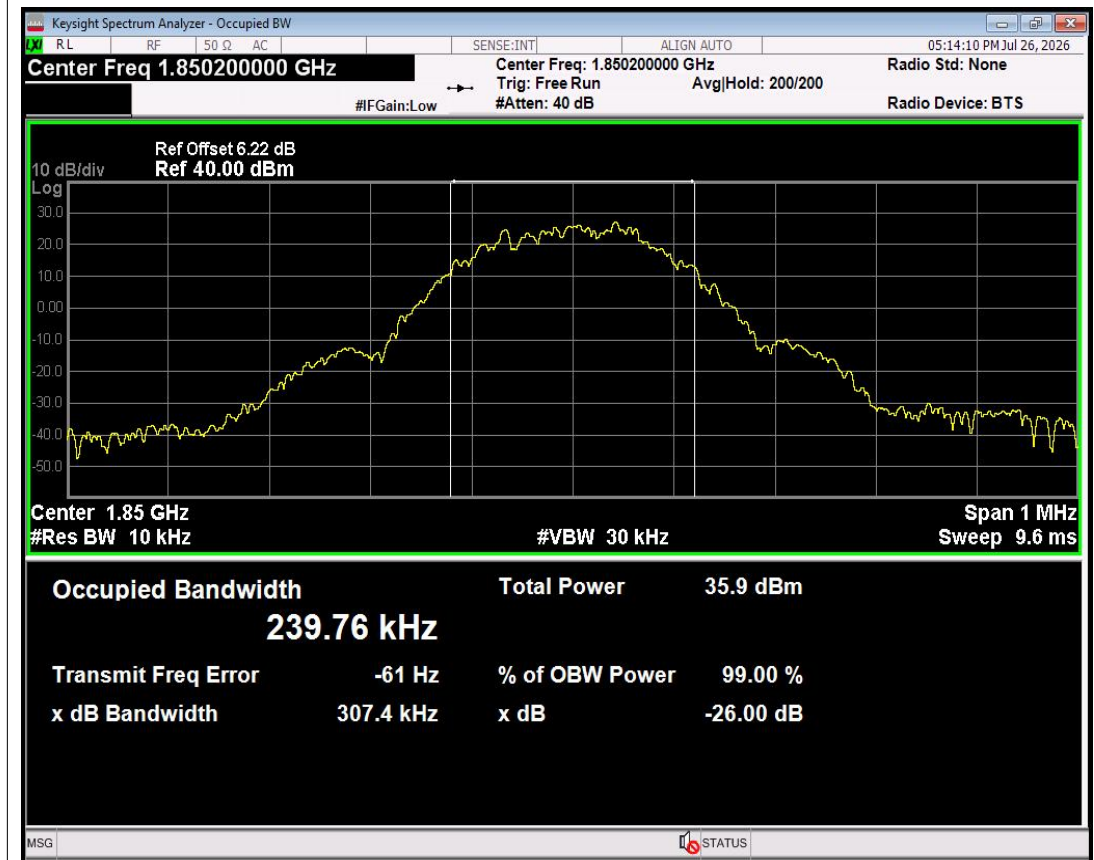
GPRS850 Channel=128 NVNT



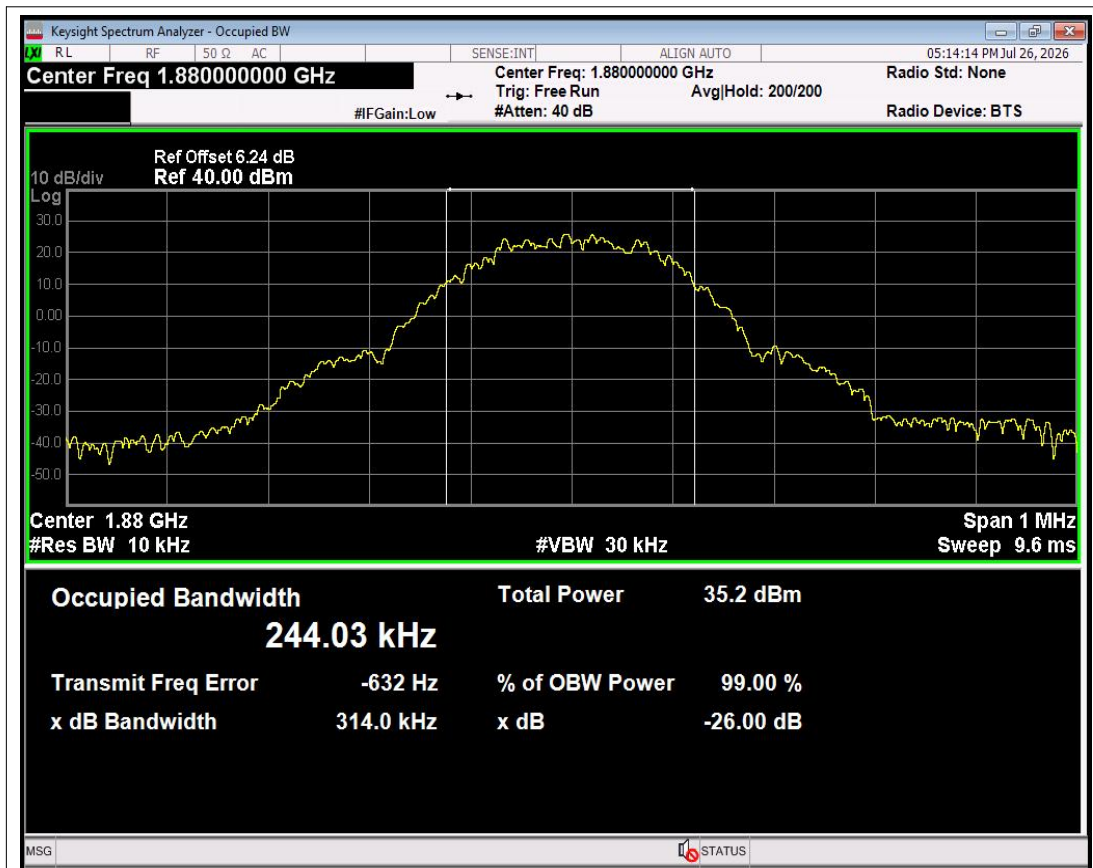
GPRS850 Channel=190 NVNT



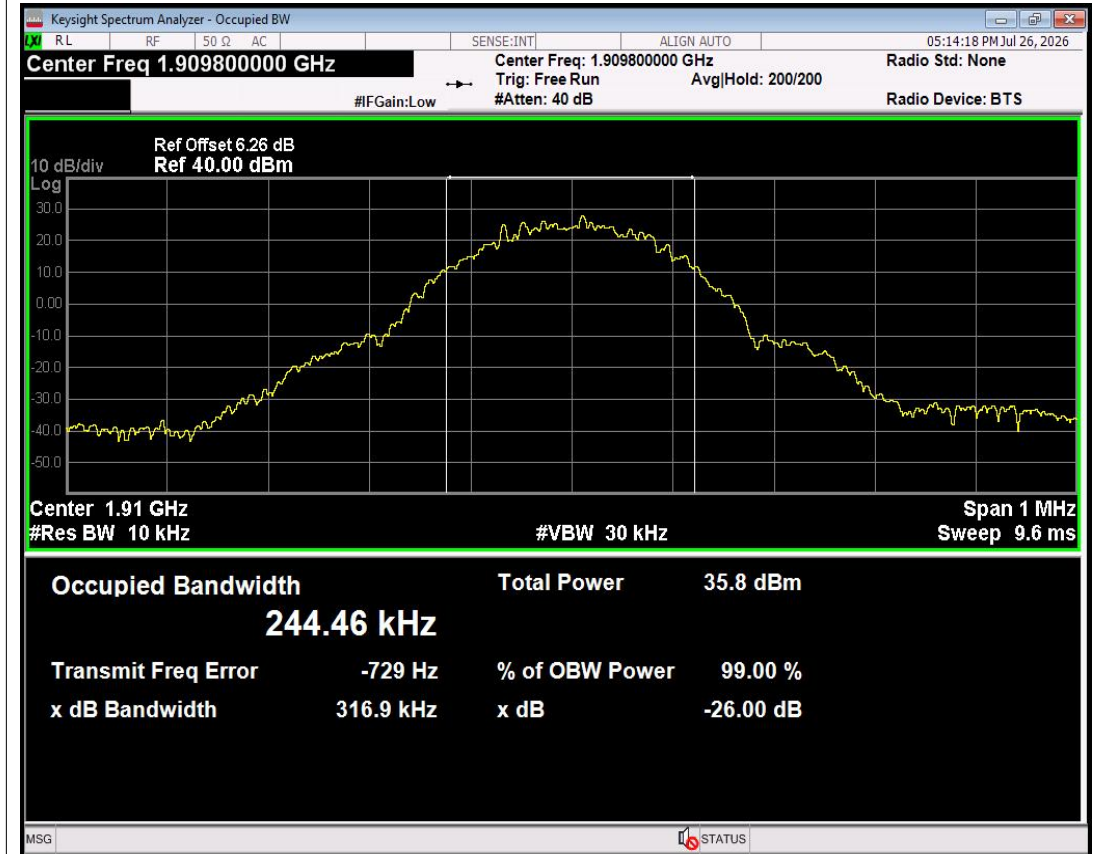
GPRS850 Channel=251 NVNT



GPRS1900 Channel=512 NVNT



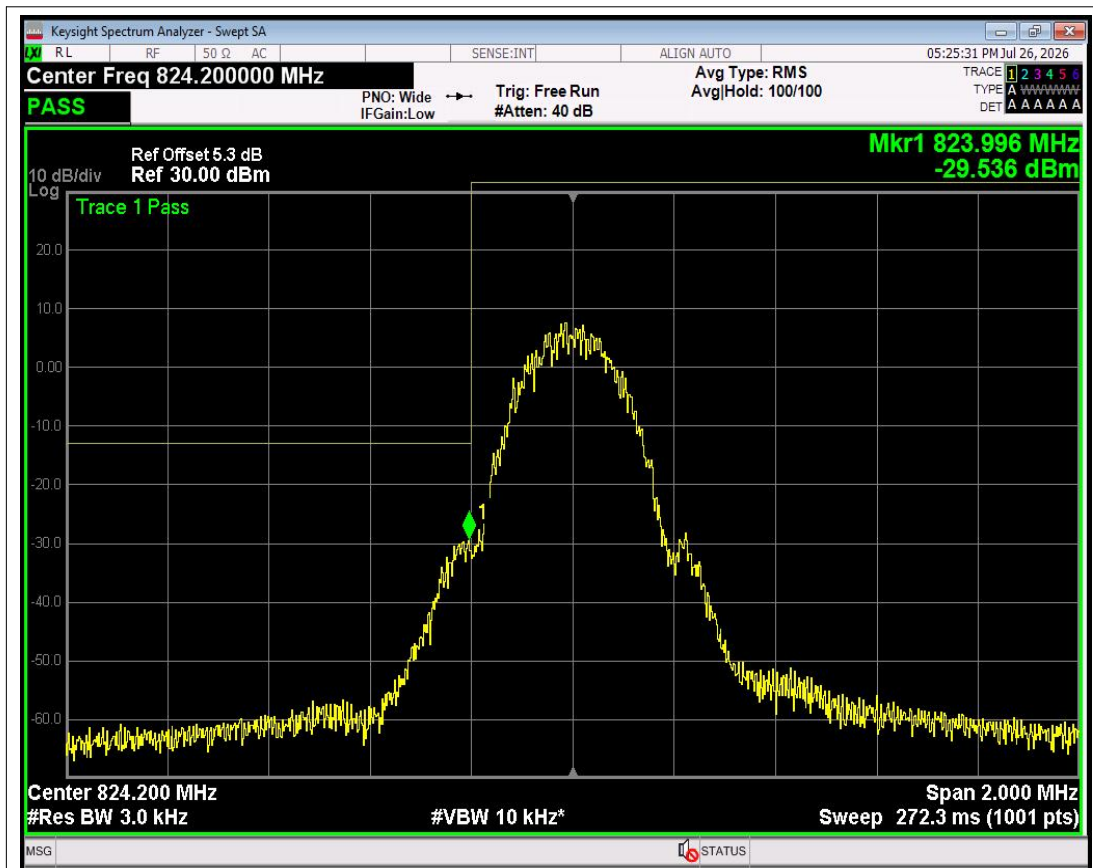
GPRS1900 Channel=661 NVNT



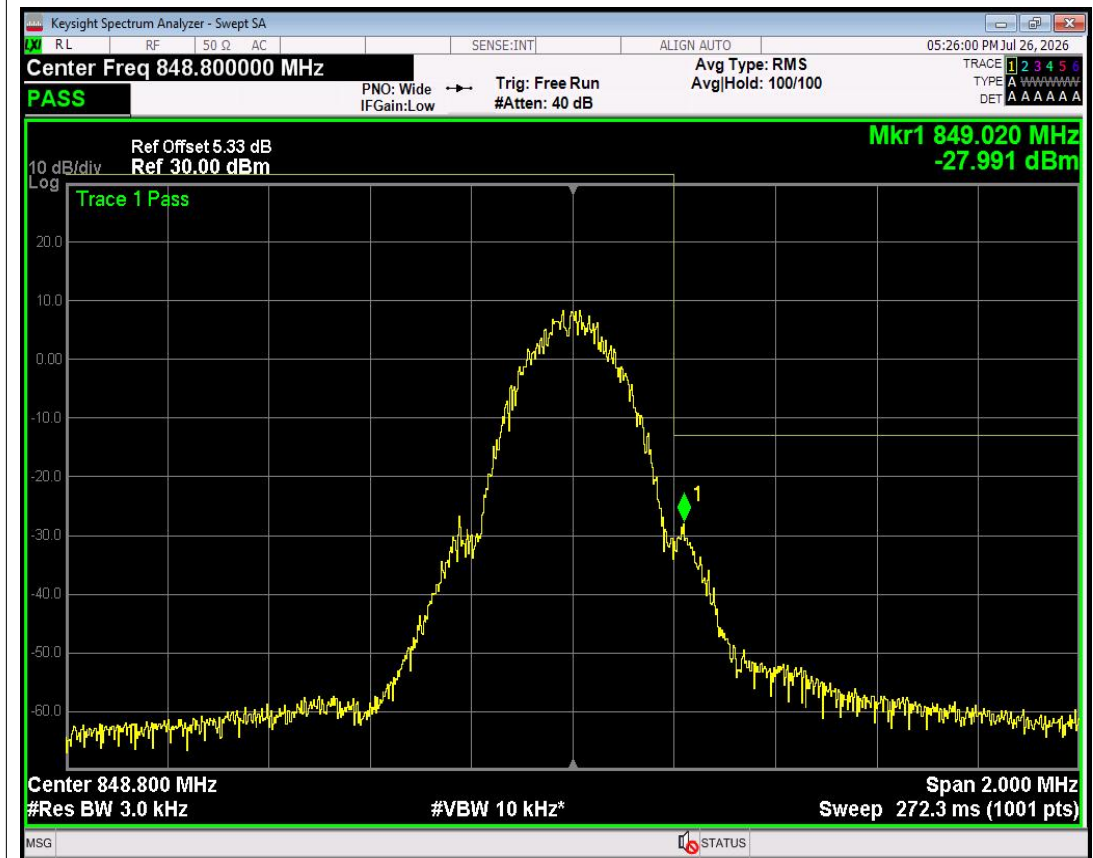
GPRS1900 Channel=810 NVNT

11 Band edge

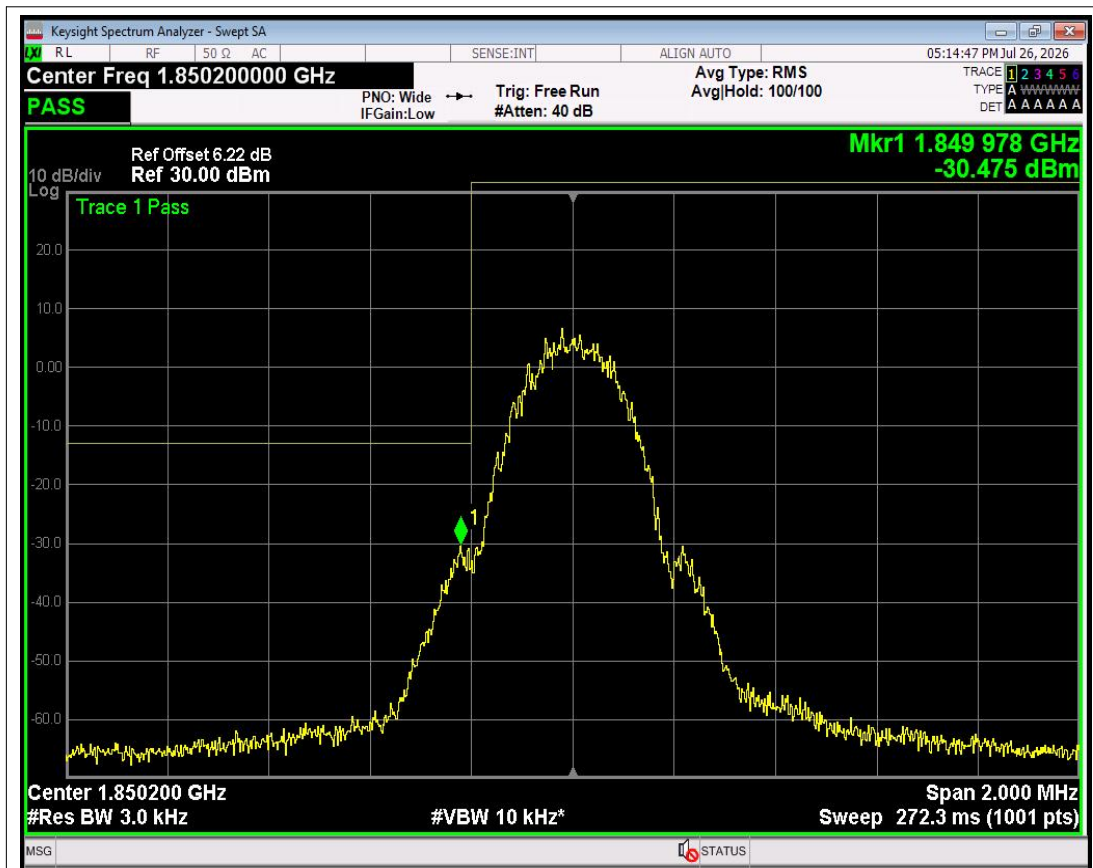
Condition	Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	GPRS850	128	824.2	824.00	-29.53	-13	PASS
NVNT	GPRS850	251	848.8	849.02	-27.99	-13	PASS
NVNT	GPRS1900	512	1850.2	1849.98	-30.47	-13	PASS
NVNT	GPRS1900	810	1909.8	1910.03	-30.18	-13	PASS



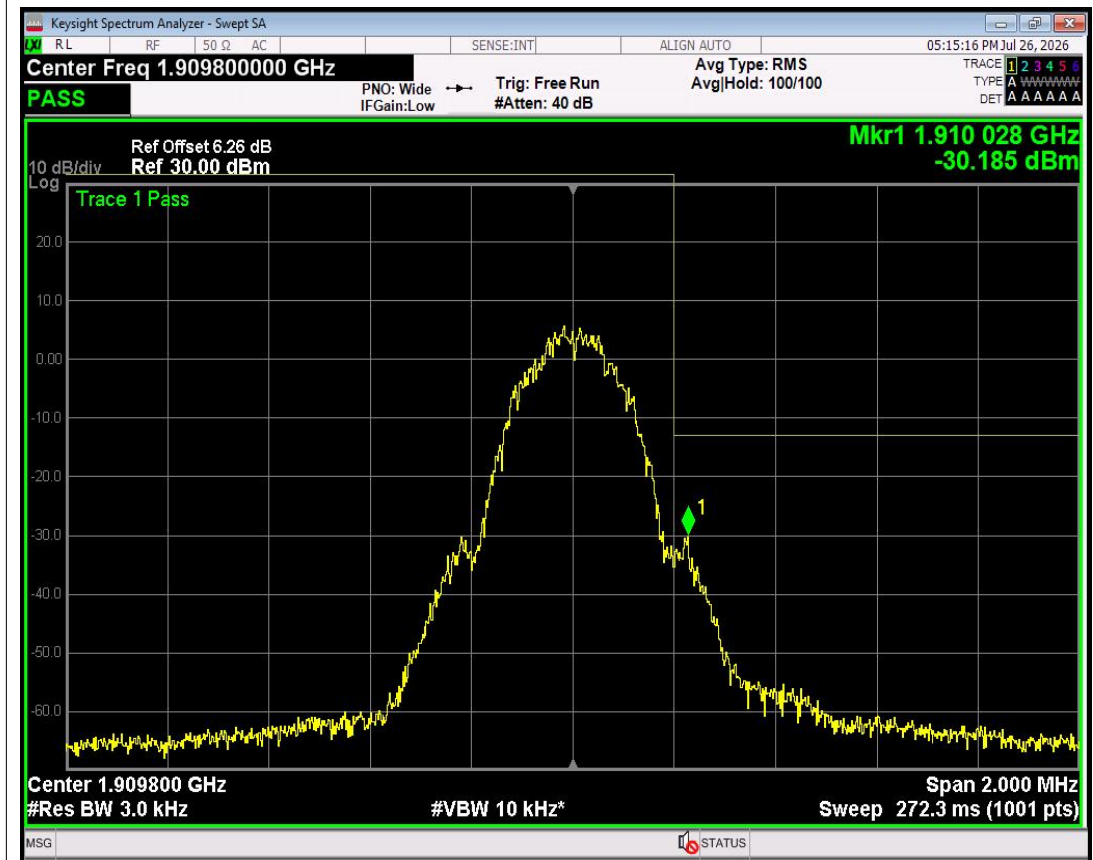
GPRS850 Channel=128 NVNT



GPRS850 Channel=251 NVNT



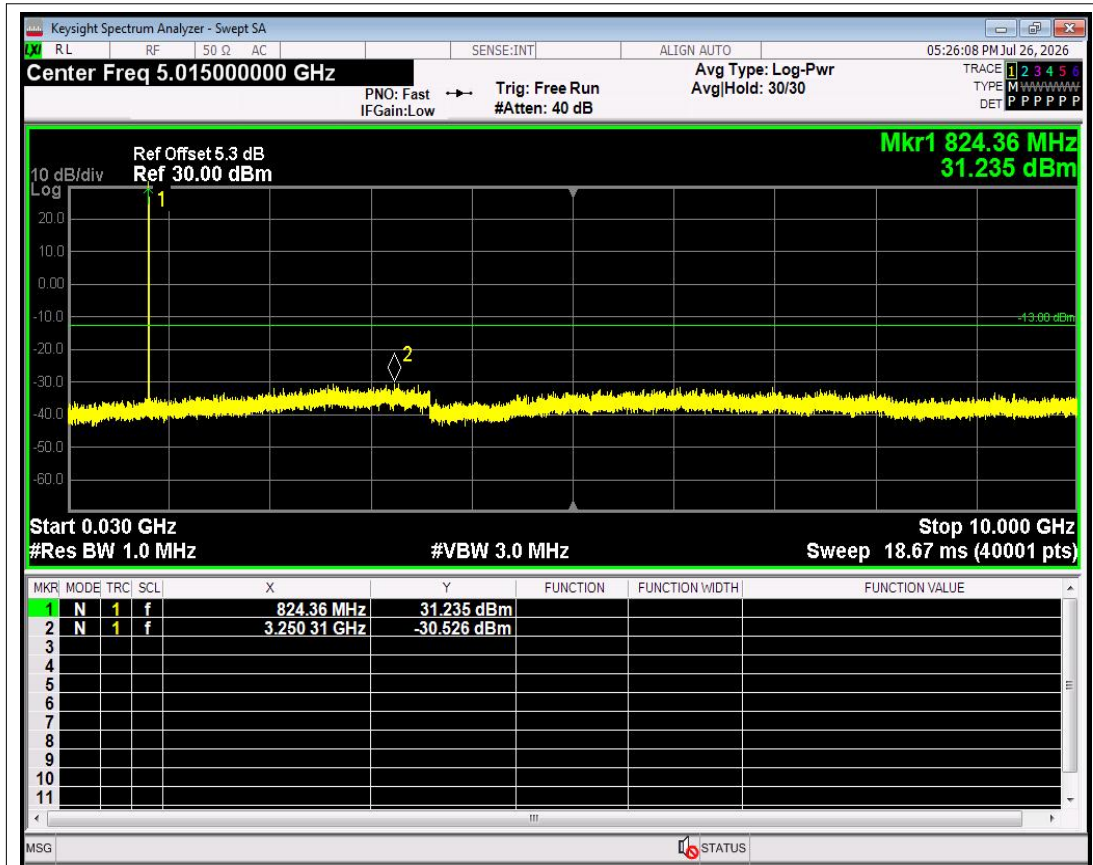
GPRS1900 Channel=512 NVNT



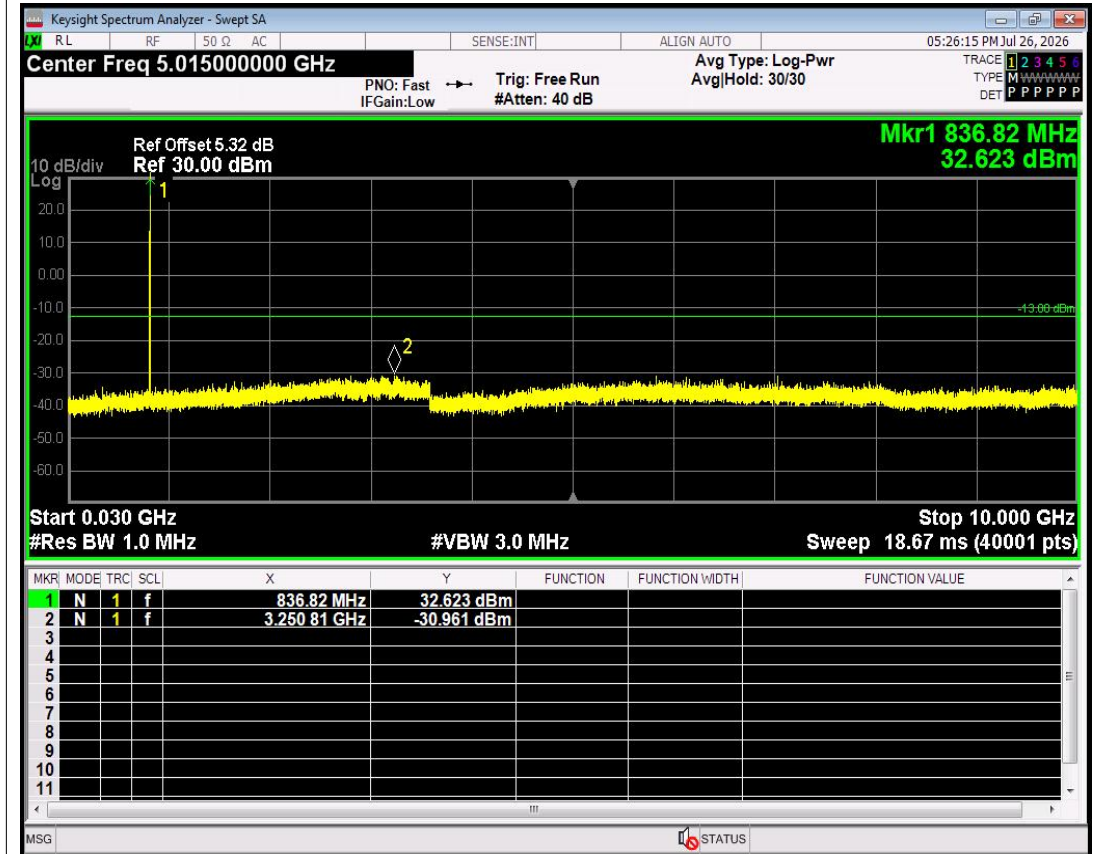
GPRS1900 Channel=810 NVNT

12 Out-of-band emissions

Condition	Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	GPRS850	128	824.2	3250.31	-30.52	-13	PASS
NVNT	GPRS850	190	836.6	3250.81	-30.96	-13	PASS
NVNT	GPRS850	251	848.8	2966.91	-29.66	-13	PASS
NVNT	GPRS1900	512	1850.2	16325.52	-27.38	-13	PASS
NVNT	GPRS1900	661	1880	19099.85	-27.20	-13	PASS
NVNT	GPRS1900	810	1909.8	16246.64	-26.48	-13	PASS



GPRS850 Channel=128 NVNT



GPRS850 Channel=190 NVNT