

Appendix H_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	30.74	1.2	31.94	1563.15	2000	PASS
NVNT	GSM1900	661	1880	30.64	1.2	31.84	1527.57	2000	PASS
NVNT	GSM1900	810	1909.8	30.65	1.2	31.85	1531.09	2000	PASS

01 Conducted output power (ERP)

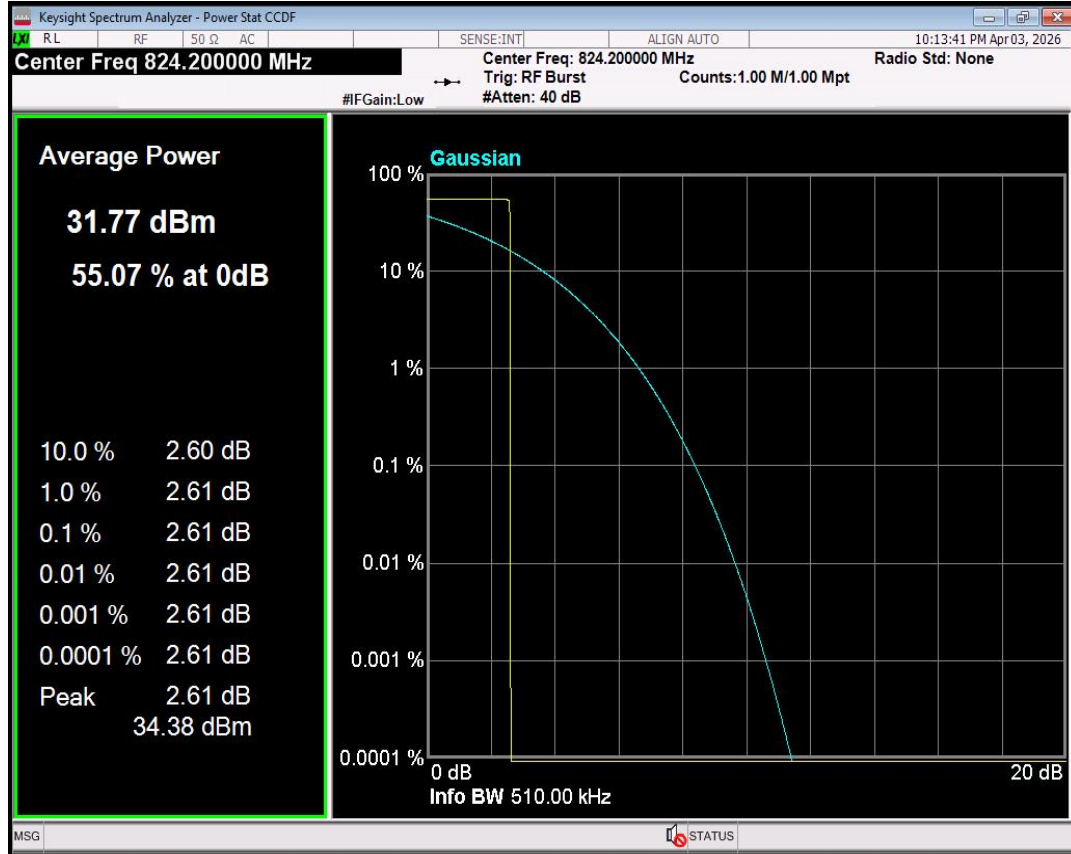
Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	ERP Limit (mW)	Verdict
NVNT	GSM850	128	824.2	32.49	-3.2	27.14	517.61	7000	PASS
NVNT	GSM850	190	836.6	32.72	-3.2	27.37	545.76	7000	PASS
NVNT	GSM850	251	848.8	32.49	-3.2	27.14	517.61	7000	PASS

02 Frequency stability

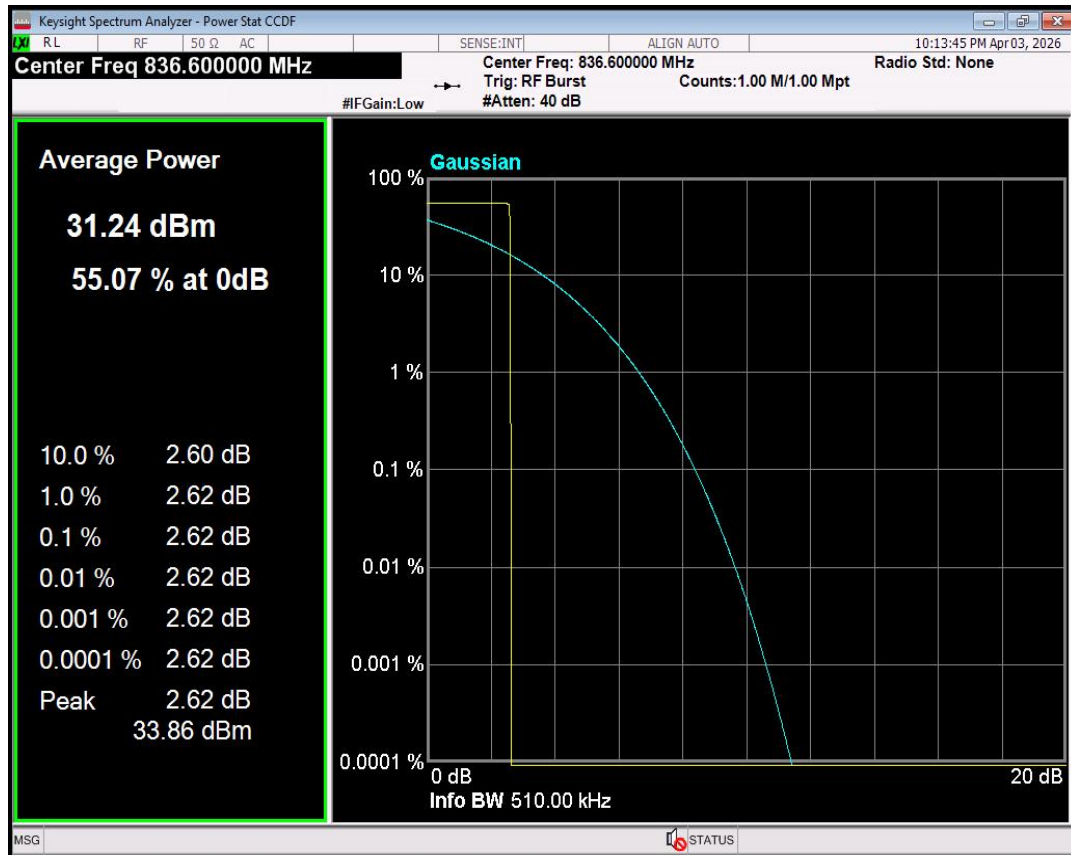
Condition	Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
NVNT	GSM850	128	824.2	1.23	0.001	-2.5	2.5	PASS
NVNT	GSM850	190	836.6	2.29	0.003	-2.5	2.5	PASS
NVNT	GSM850	251	848.8	-0.87	-0.001	-2.5	2.5	PASS
NVNT	GSM1900	512	1850.2	11.36	0.006	-2.5	2.5	PASS
NVNT	GSM1900	661	1880	14.11	0.008	-2.5	2.5	PASS
NVNT	GSM1900	810	1909.8	15.88	0.008	-2.5	2.5	PASS
LVLT	GSM850	128	824.2	2.26	0.003	-2.5	2.5	PASS
LVLT	GSM850	190	836.6	4.33	0.005	-2.5	2.5	PASS
LVLT	GSM850	251	848.8	11.43	0.013	-2.5	2.5	PASS
LVLT	GSM1900	512	1850.2	20.79	0.011	-2.5	2.5	PASS
LVLT	GSM1900	661	1880	18.11	0.010	-2.5	2.5	PASS
LVLT	GSM1900	810	1909.8	21.41	0.011	-2.5	2.5	PASS
LVHT	GSM850	128	824.2	3.07	0.004	-2.5	2.5	PASS
LVHT	GSM850	190	836.6	7.88	0.009	-2.5	2.5	PASS
LVHT	GSM850	251	848.8	7.75	0.009	-2.5	2.5	PASS
LVHT	GSM1900	512	1850.2	17.50	0.009	-2.5	2.5	PASS
LVHT	GSM1900	661	1880	14.72	0.008	-2.5	2.5	PASS
LVHT	GSM1900	810	1909.8	15.01	0.008	-2.5	2.5	PASS
HVLT	GSM850	128	824.2	6.01	0.007	-2.5	2.5	PASS
HVLT	GSM850	190	836.6	7.14	0.009	-2.5	2.5	PASS
HVLT	GSM850	251	848.8	7.23	0.009	-2.5	2.5	PASS
HVLT	GSM1900	512	1850.2	21.08	0.011	-2.5	2.5	PASS
HVLT	GSM1900	661	1880	20.37	0.011	-2.5	2.5	PASS
HVLT	GSM1900	810	1909.8	17.37	0.009	-2.5	2.5	PASS
HVHT	GSM850	128	824.2	8.10	0.010	-2.5	2.5	PASS
HVHT	GSM850	190	836.6	5.04	0.006	-2.5	2.5	PASS
HVHT	GSM850	251	848.8	4.04	0.005	-2.5	2.5	PASS
HVHT	GSM1900	512	1850.2	9.07	0.005	-2.5	2.5	PASS
HVHT	GSM1900	661	1880	12.49	0.007	-2.5	2.5	PASS
HVHT	GSM1900	810	1909.8	16.50	0.009	-2.5	2.5	PASS

03 Peak-to-Average Ratio

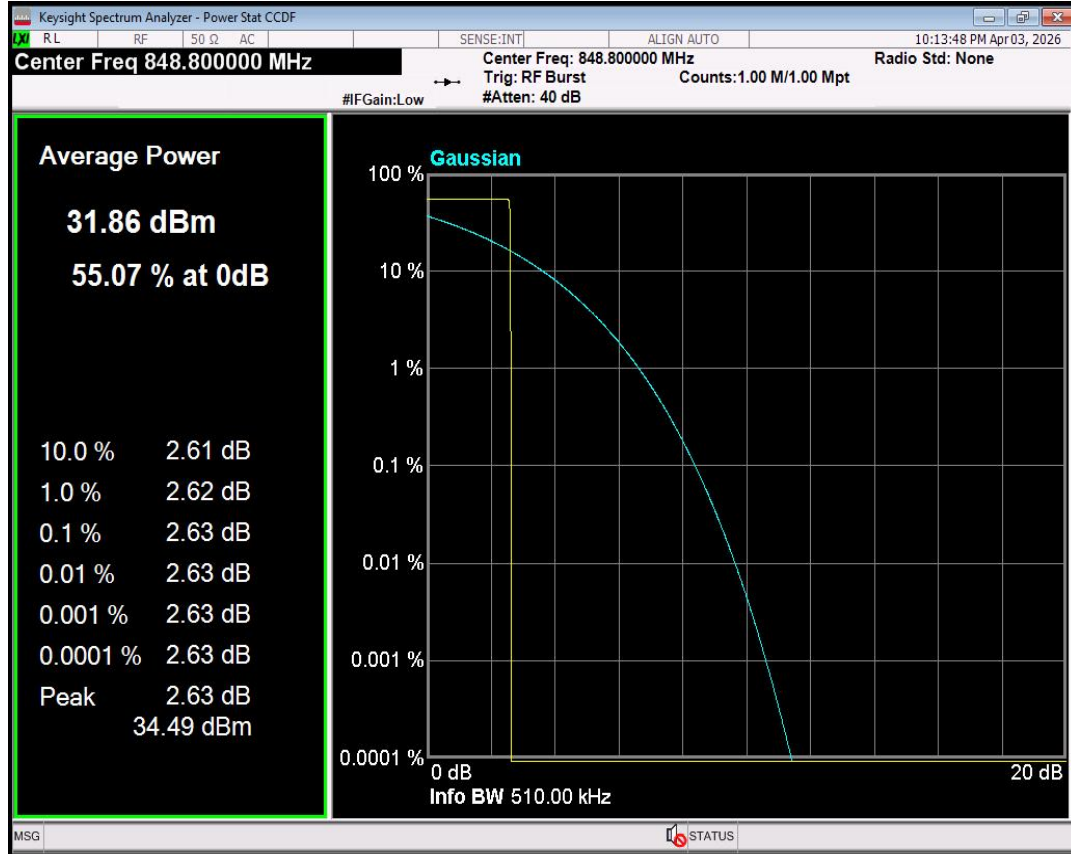
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Result (dB)</i>	<i>high Limit (dB)</i>	<i>Verdict</i>
NVNT	GSM850	128	824.2	2.61	13	PASS
NVNT	GSM850	190	836.6	2.62	13	PASS
NVNT	GSM850	251	848.8	2.63	13	PASS
NVNT	GSM1900	512	1850.2	2.62	13	PASS
NVNT	GSM1900	661	1880	2.63	13	PASS
NVNT	GSM1900	810	1909.8	2.63	13	PASS



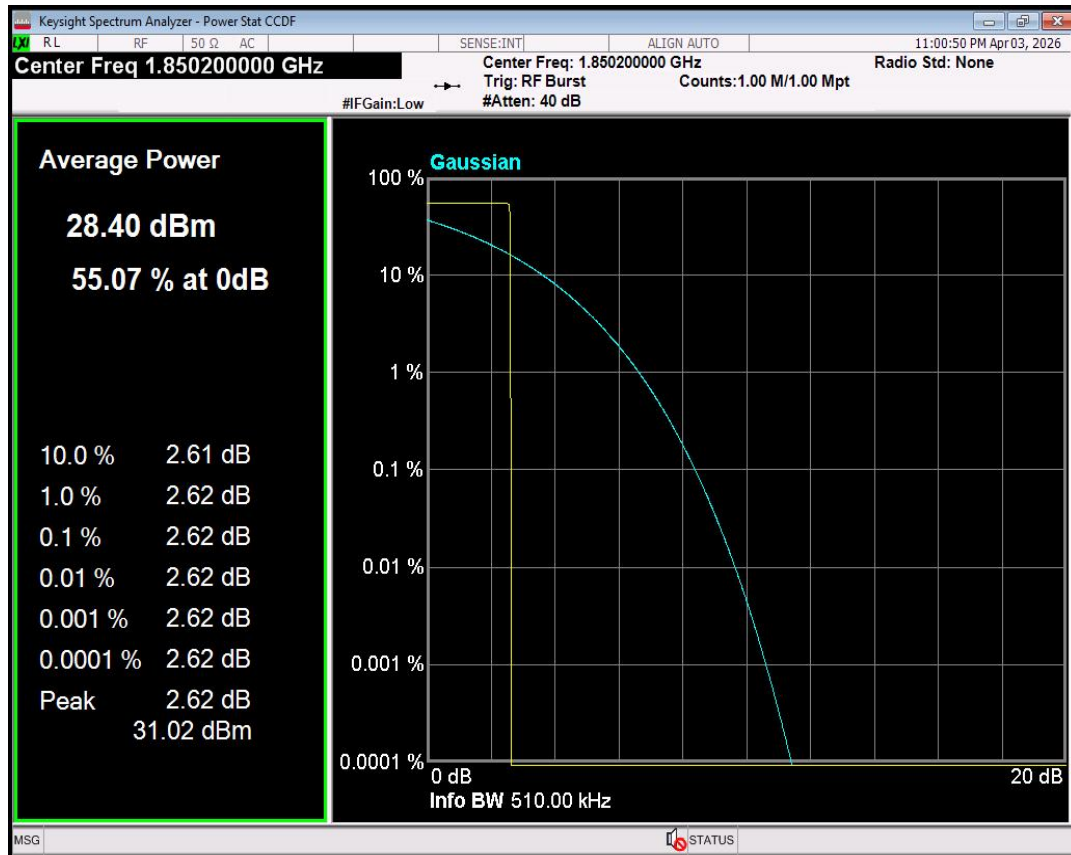
GSM850 Channel=128 NVNT



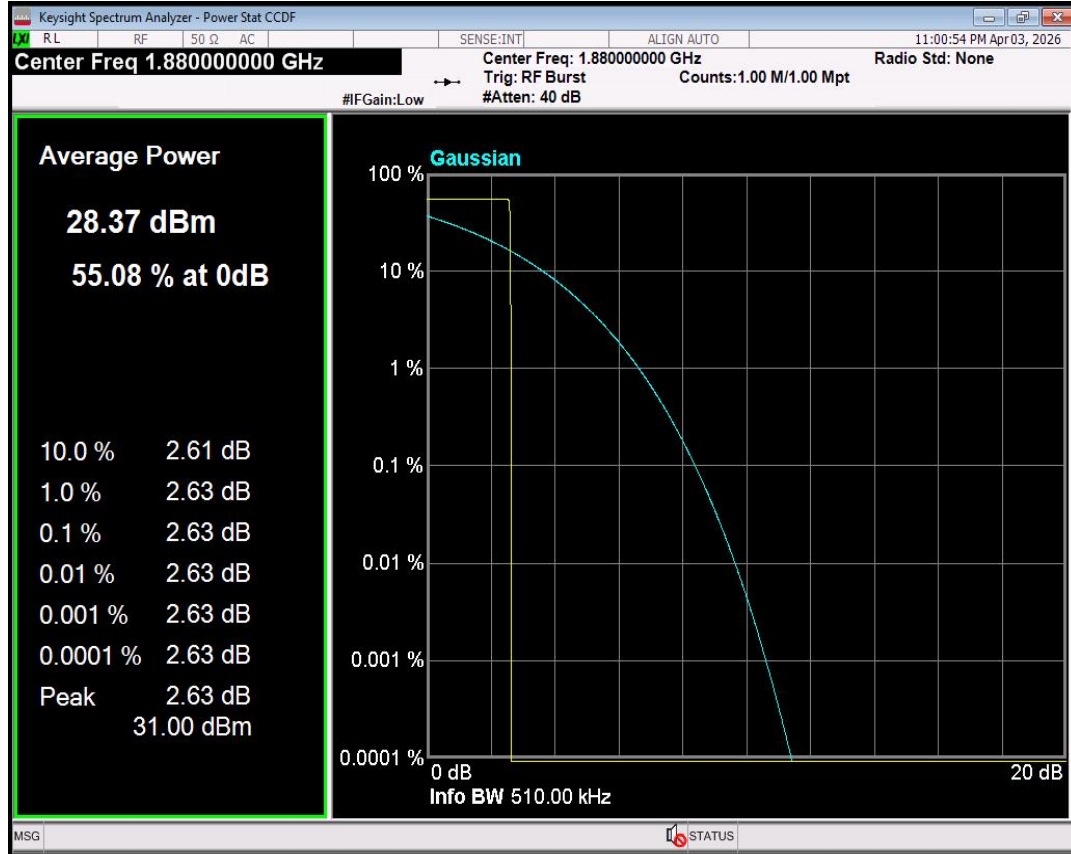
GSM850 Channel=190 NVNT



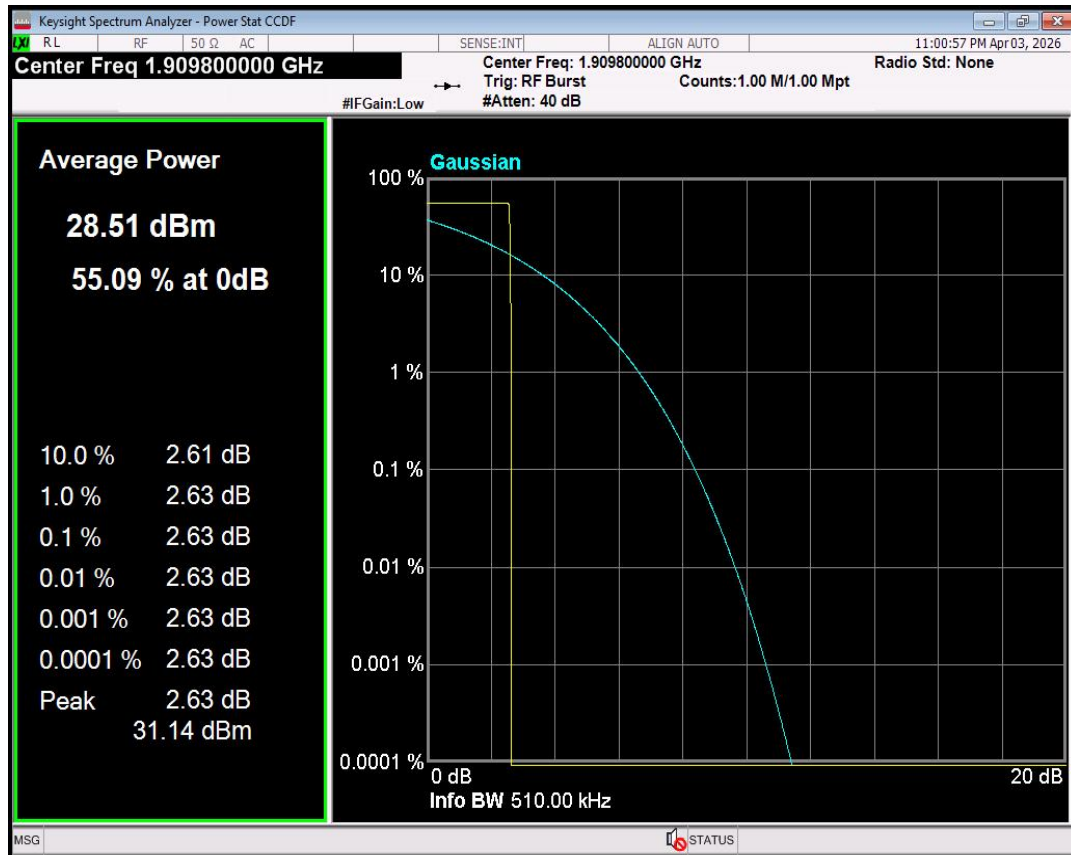
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



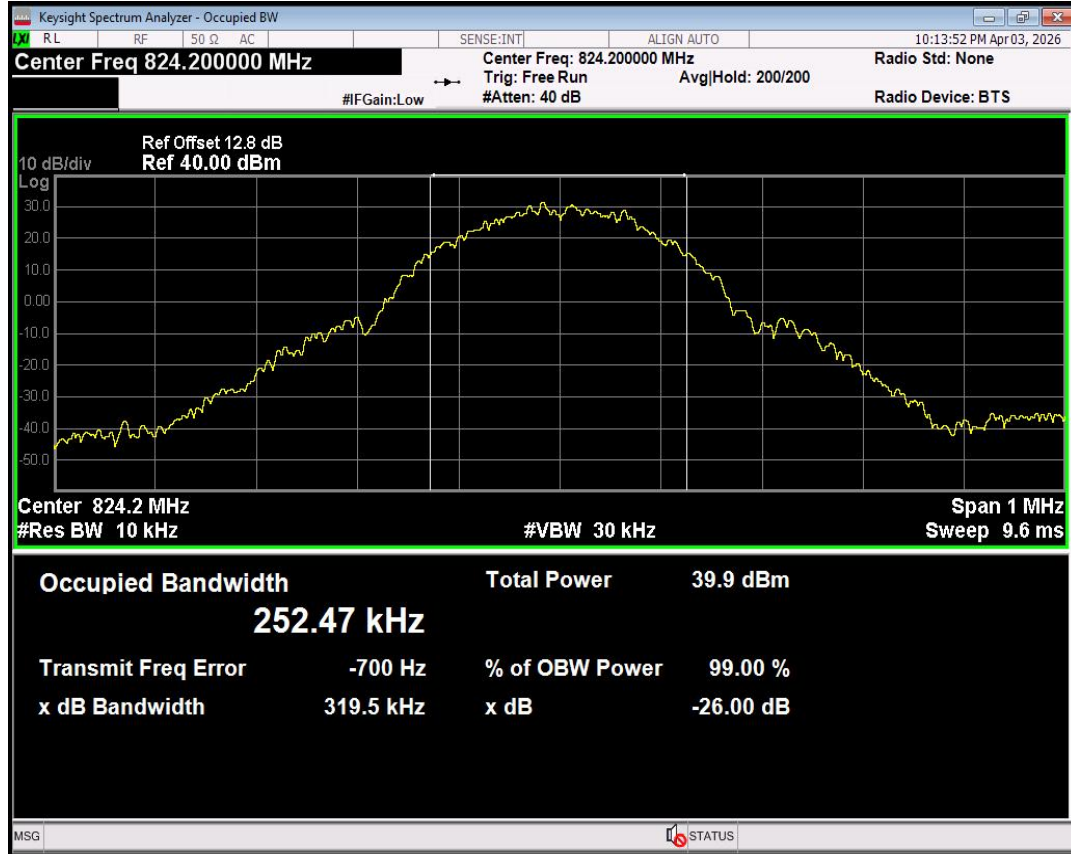
GSM1900 Channel=661 NVNT



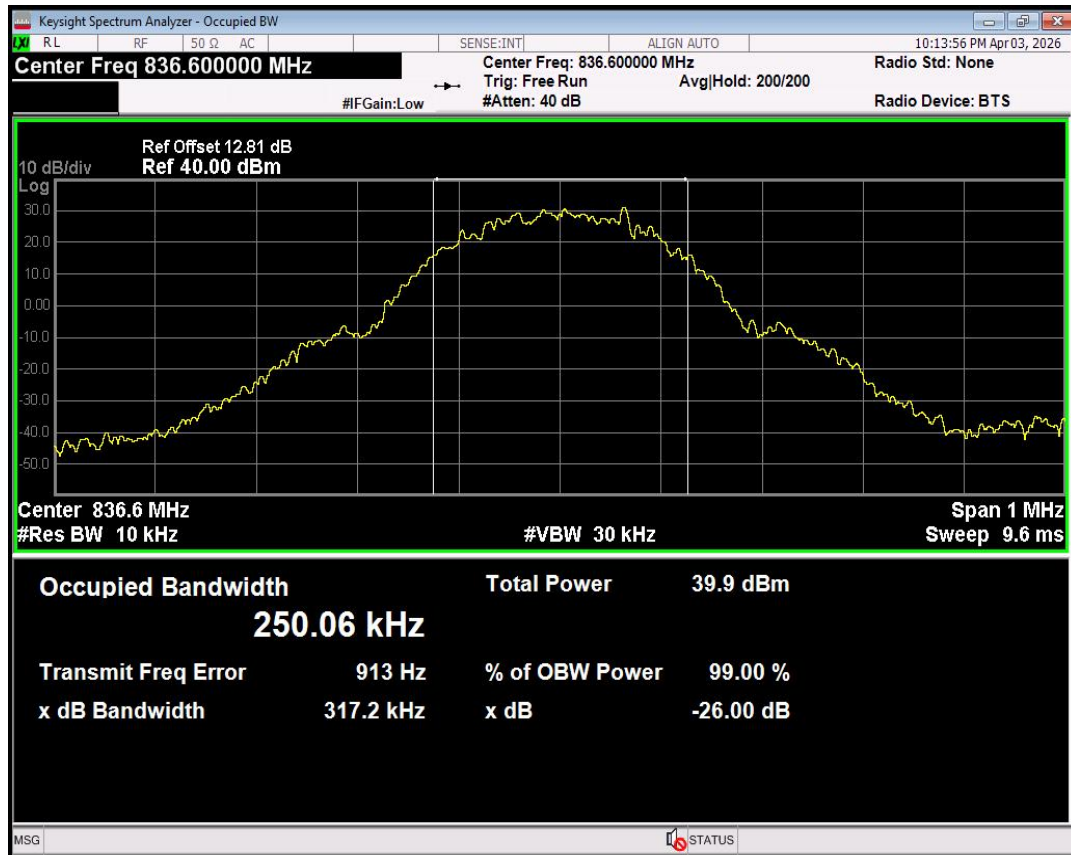
GSM1900 Channel=810 NVNT

04 Occupied bandwidth

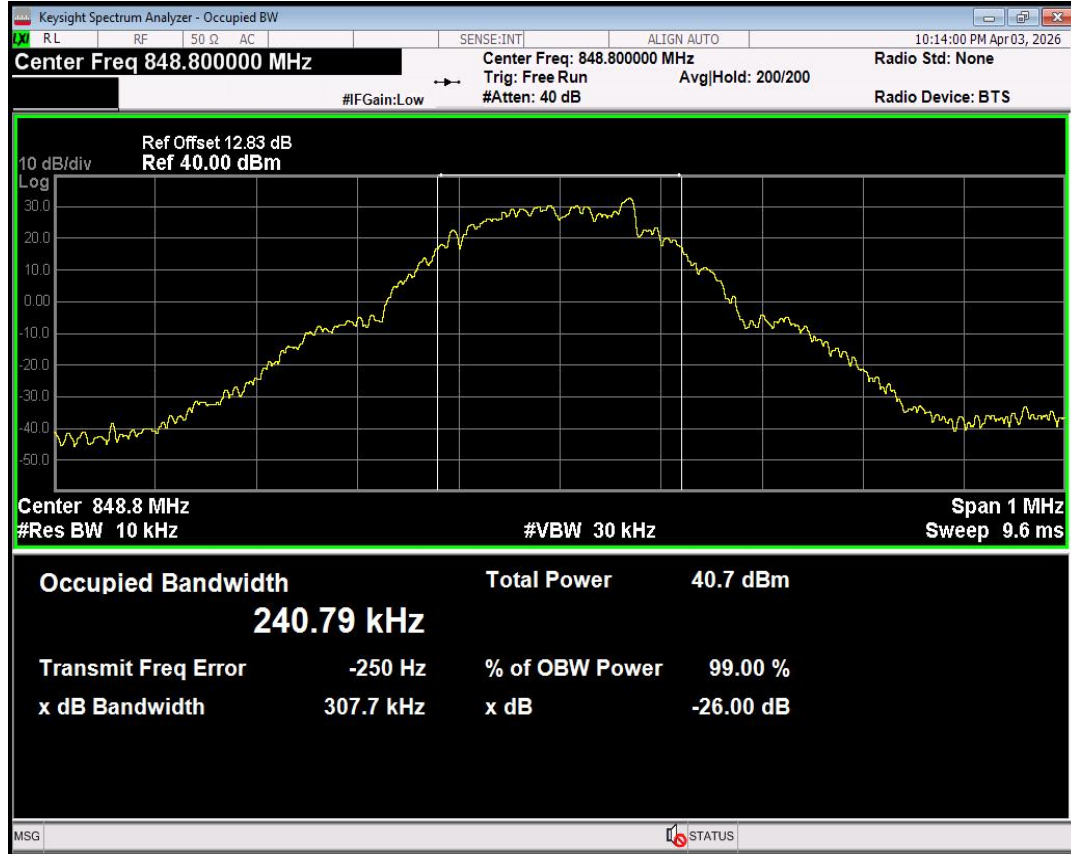
Condition	Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
NVNT	GSM850	128	824.2	252.471	319.503	PASS
NVNT	GSM850	190	836.6	250.063	317.176	PASS
NVNT	GSM850	251	848.8	240.791	307.736	PASS
NVNT	GSM1900	512	1850.2	241.454	314.773	PASS
NVNT	GSM1900	661	1880	252.096	316.970	PASS
NVNT	GSM1900	810	1909.8	242.886	324.462	PASS



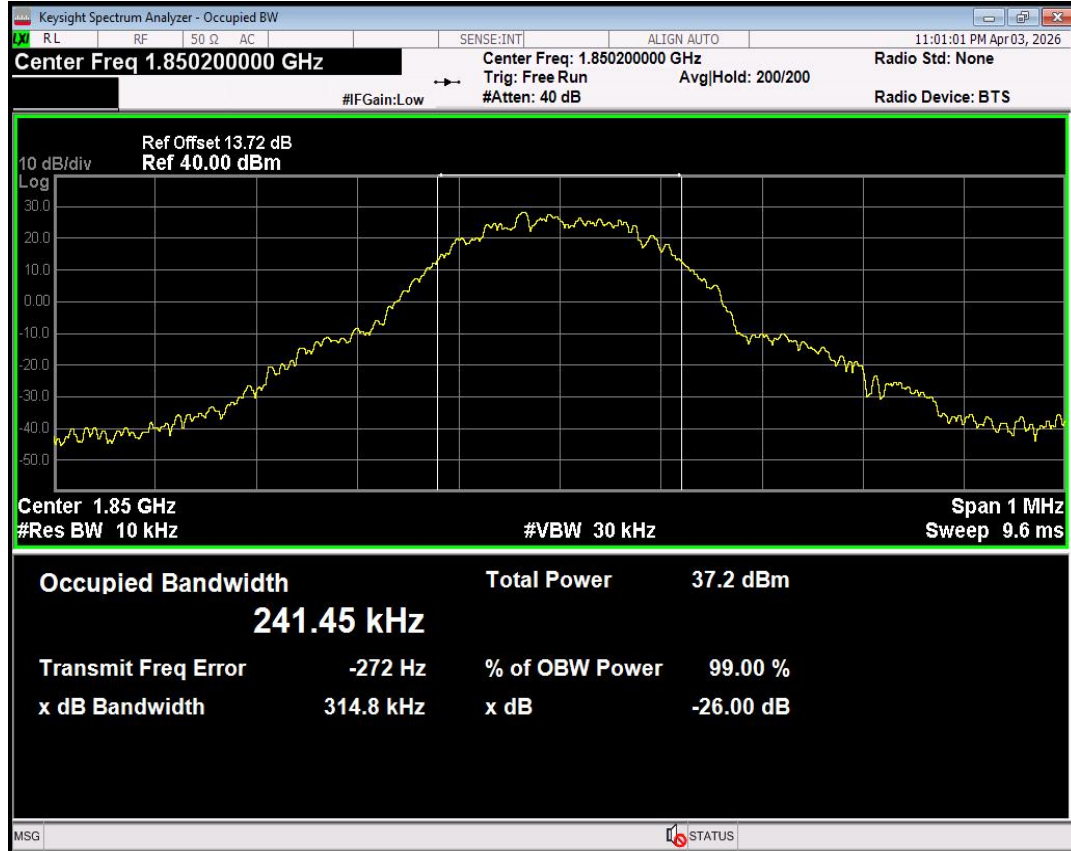
GSM850 Channel=128 NVNT



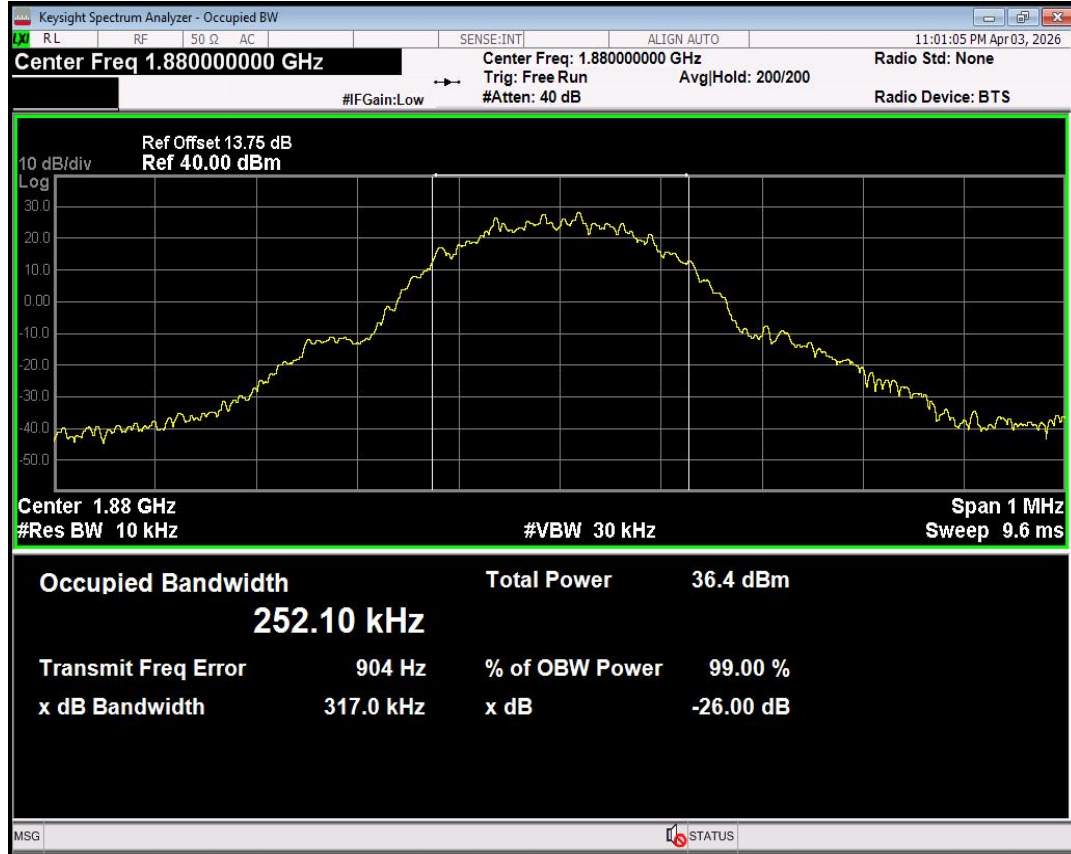
GSM850 Channel=190 NVNT



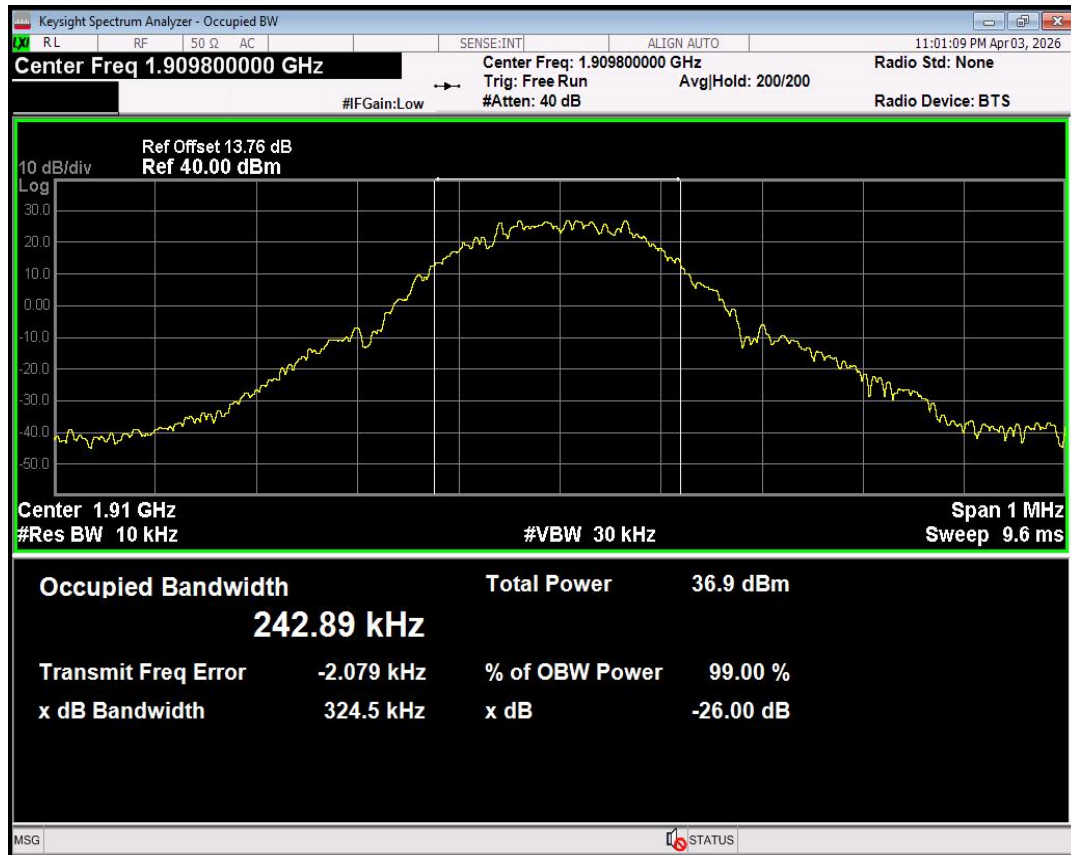
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



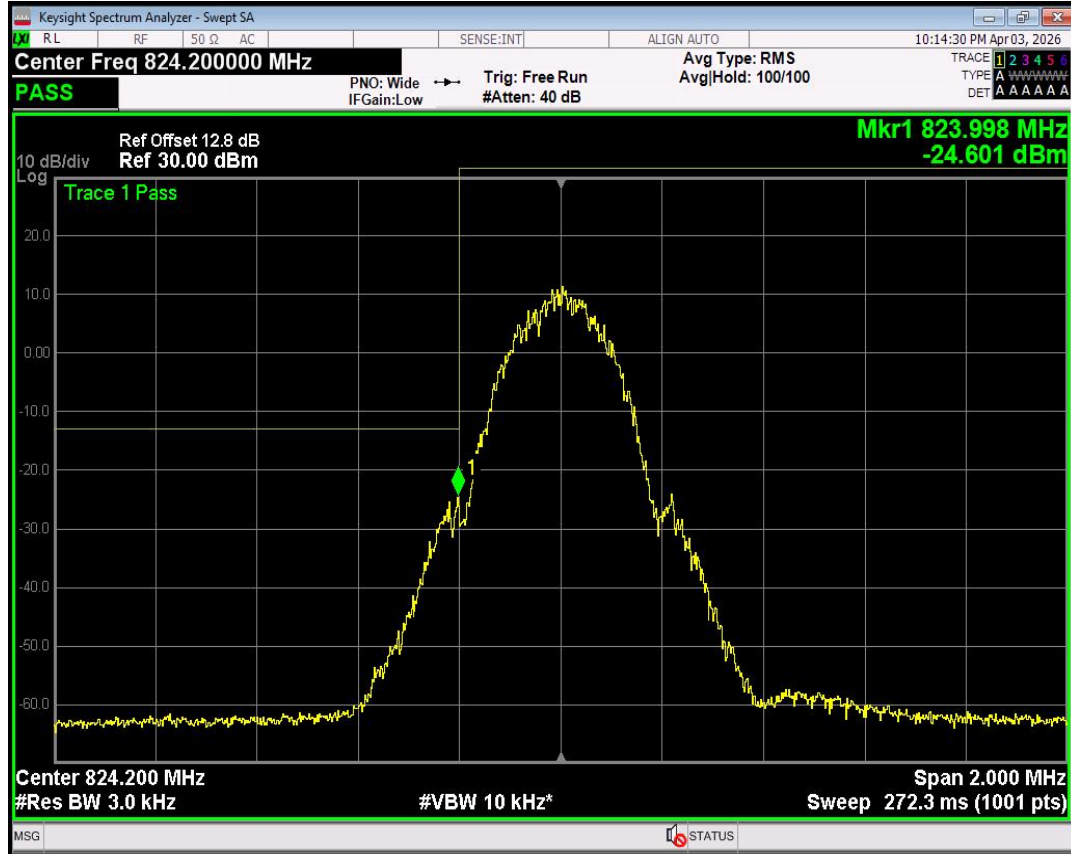
GSM1900 Channel=661 NVNT



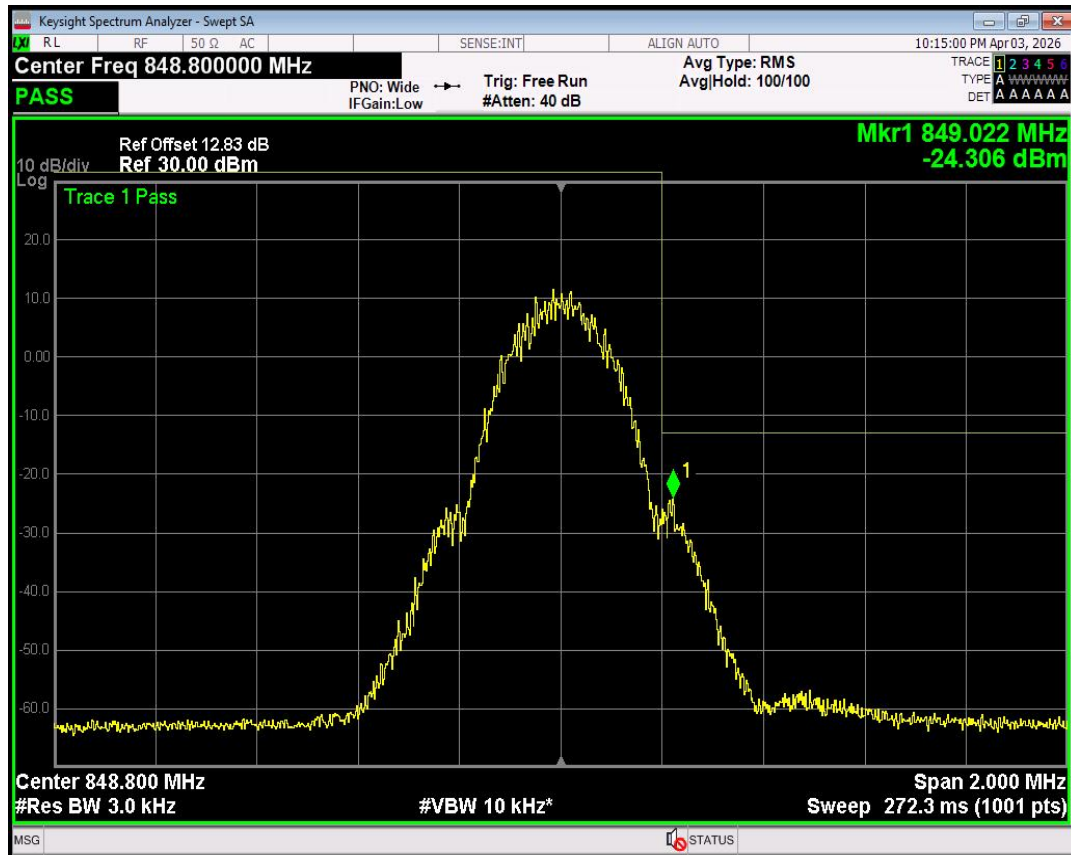
GSM1900 Channel=810 NVNT

05 Band edge

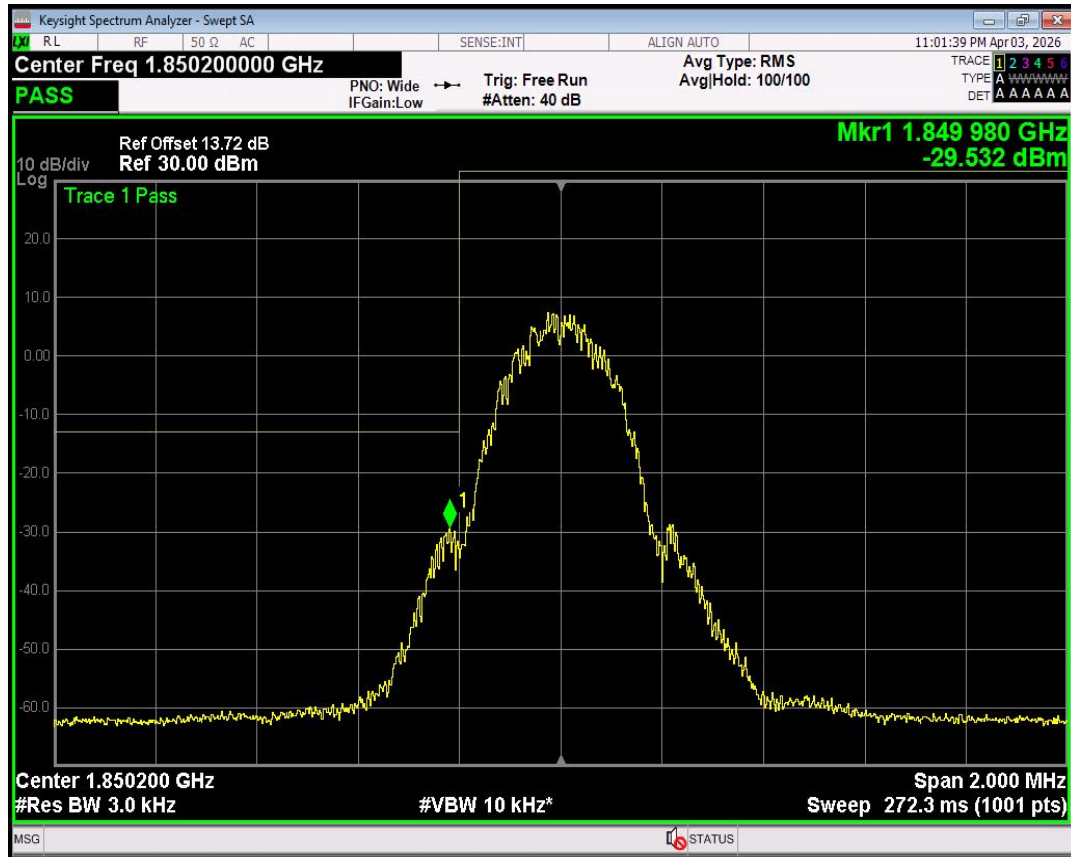
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
NVNT	GSM850	128	824.2	824.00	-24.60	-13	PASS
NVNT	GSM850	251	848.8	849.02	-24.30	-13	PASS
NVNT	GSM1900	512	1850.2	1849.98	-29.53	-13	PASS
NVNT	GSM1900	810	1909.8	1910.02	-28.58	-13	PASS



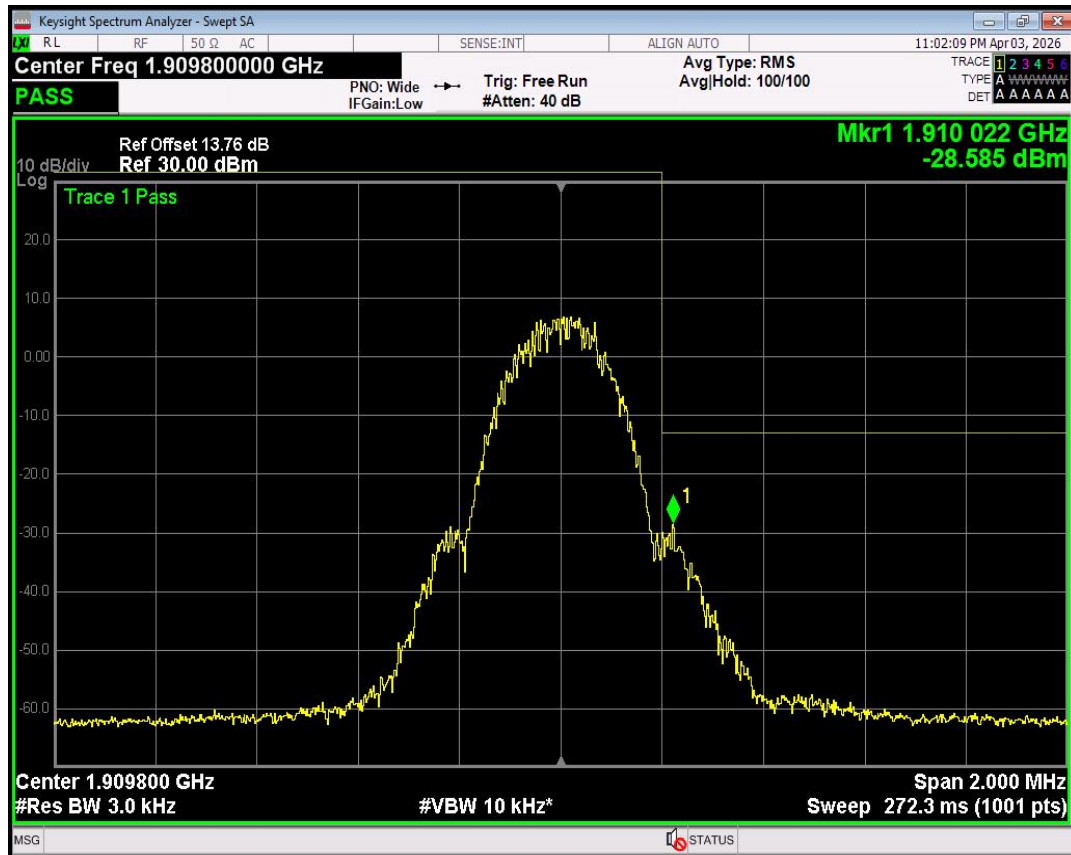
GSM850 Channel=128 NVNT



GSM850 Channel=251 NVNT



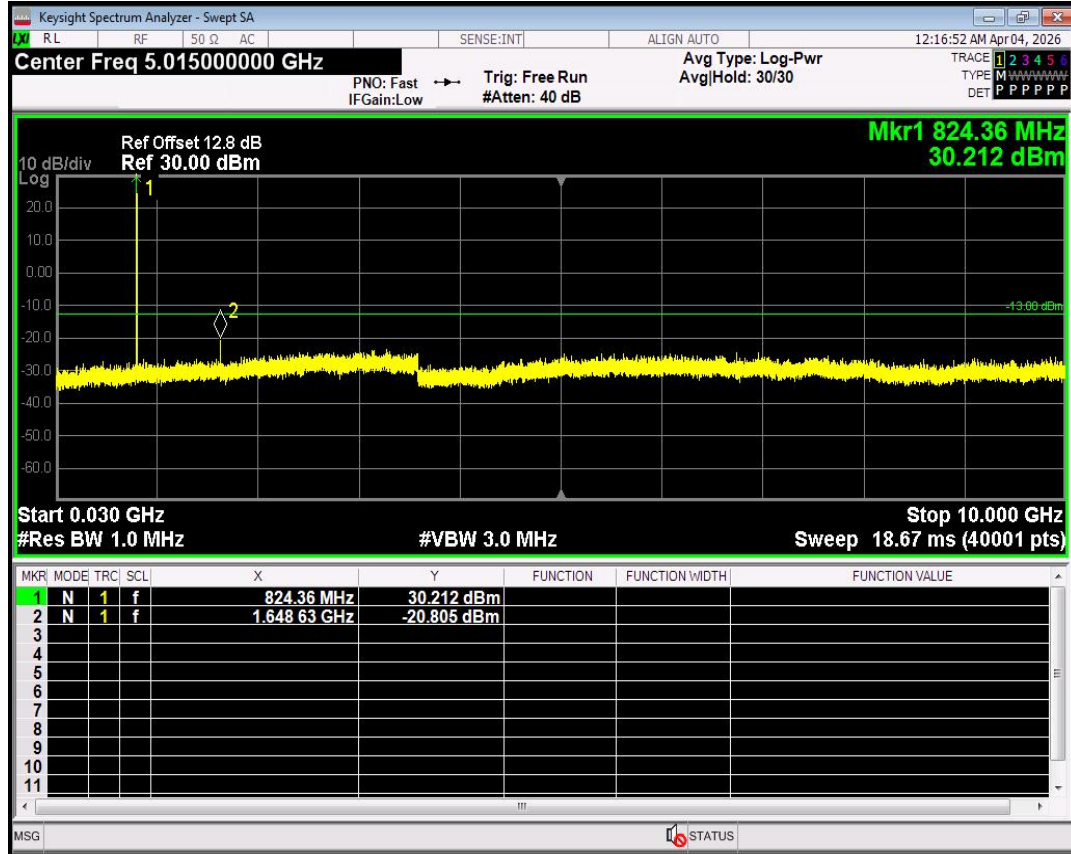
GSM1900 Channel=512 NVNT



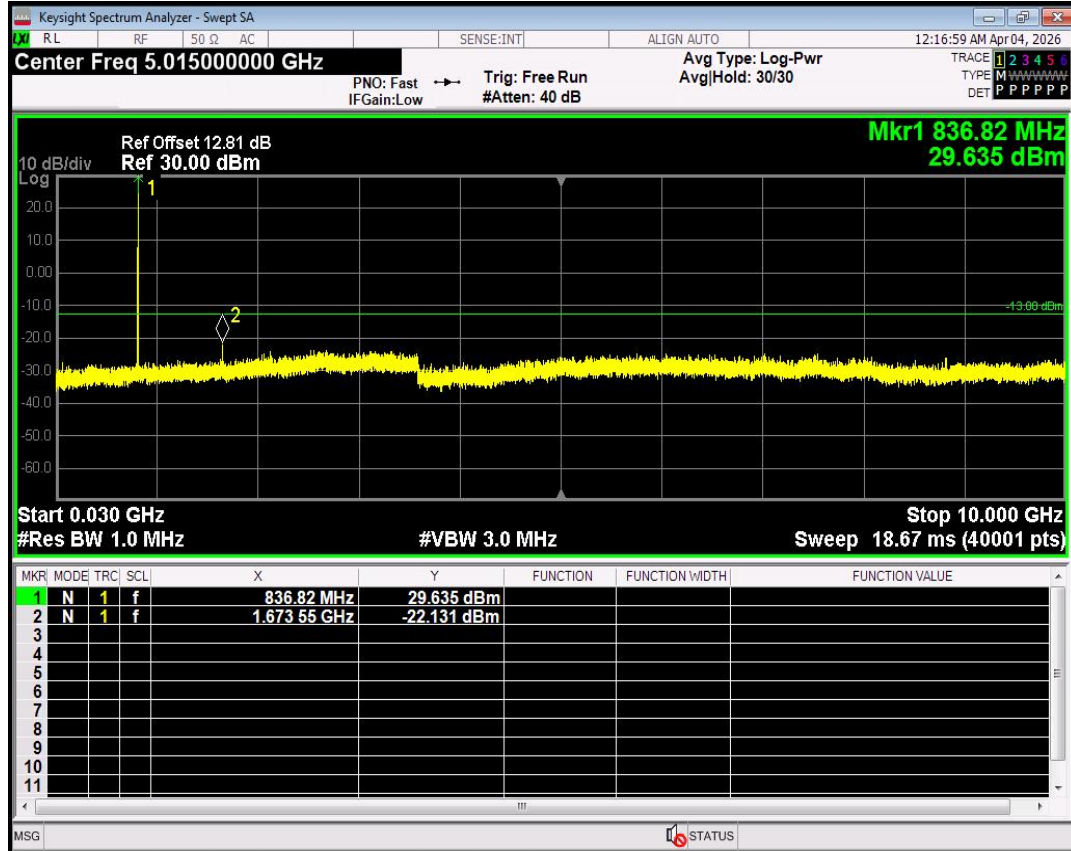
GSM1900 Channel=810 NVNT

06 Out-of-band emissions

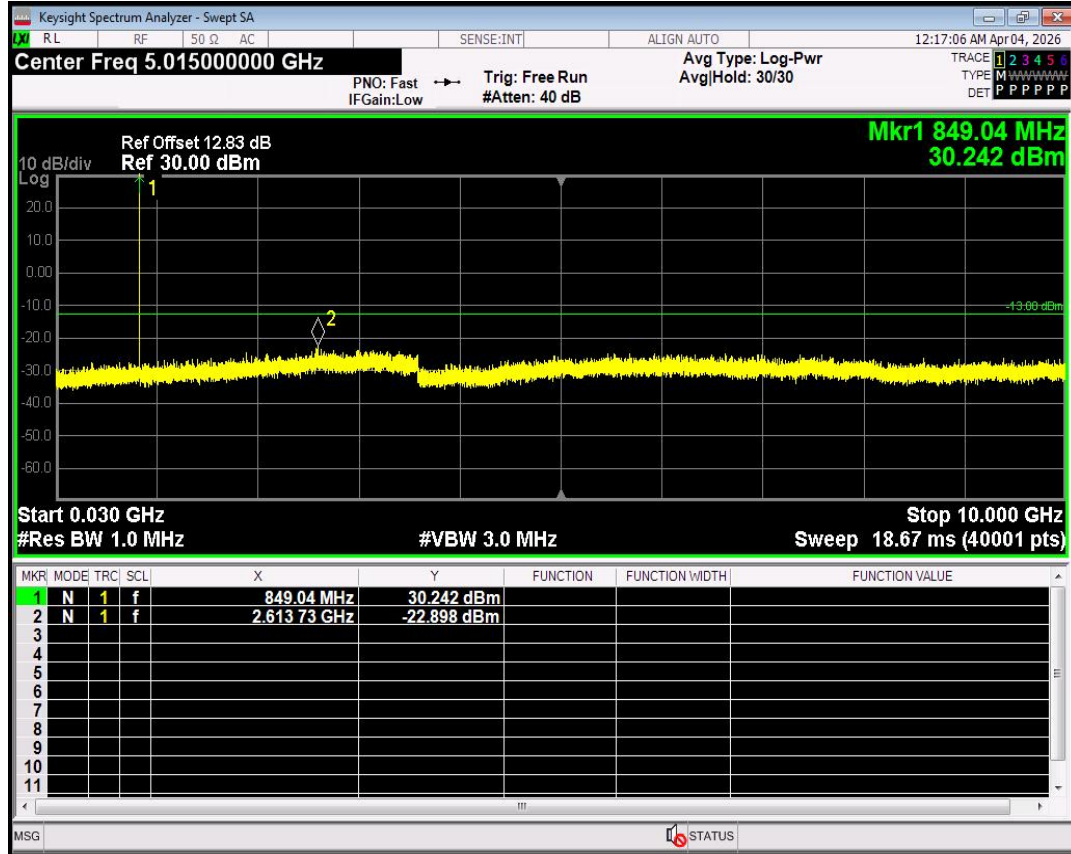
Condition	Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	GSM850	128	824.2	1648.63	-20.80	-13	PASS
NVNT	GSM850	190	836.6	1673.55	-22.13	-13	PASS
NVNT	GSM850	251	848.8	2613.73	-22.89	-13	PASS
NVNT	GSM1900	512	1850.2	19540.19	-19.66	-13	PASS
NVNT	GSM1900	661	1880	19553.67	-19.88	-13	PASS
NVNT	GSM1900	810	1909.8	19054.92	-19.76	-13	PASS



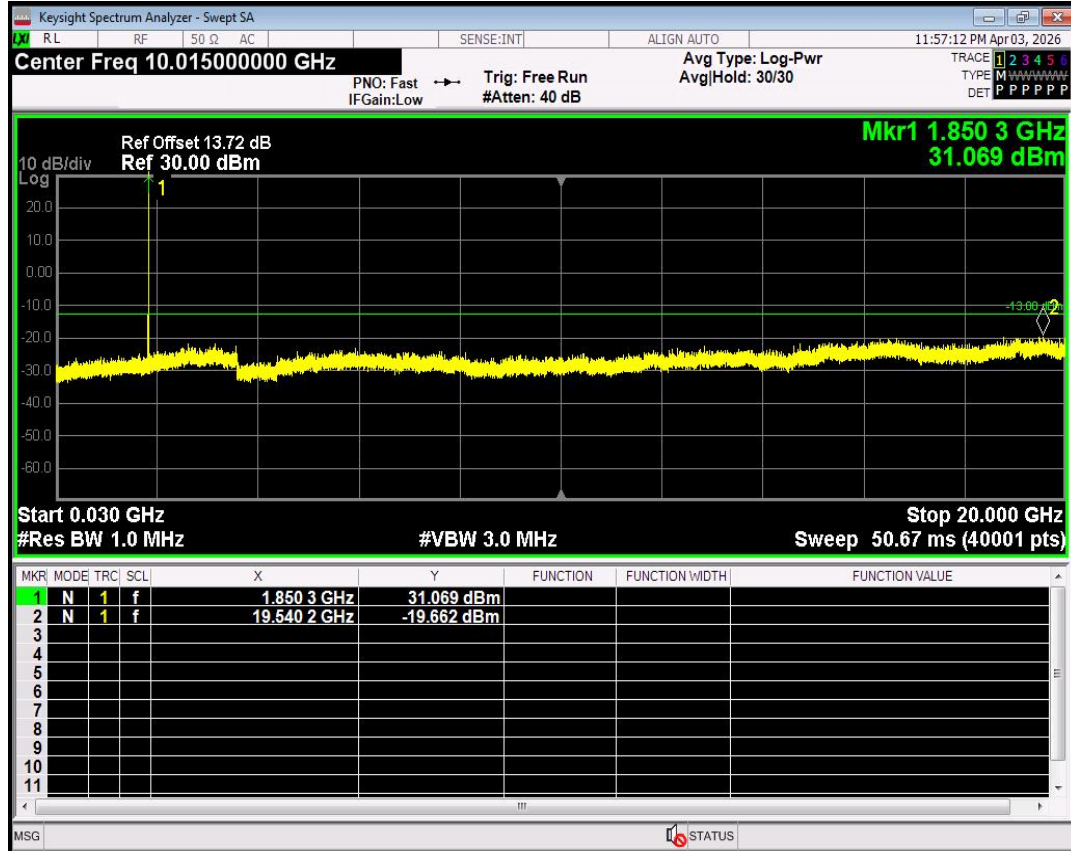
GSM850 Channel=128 NVNT



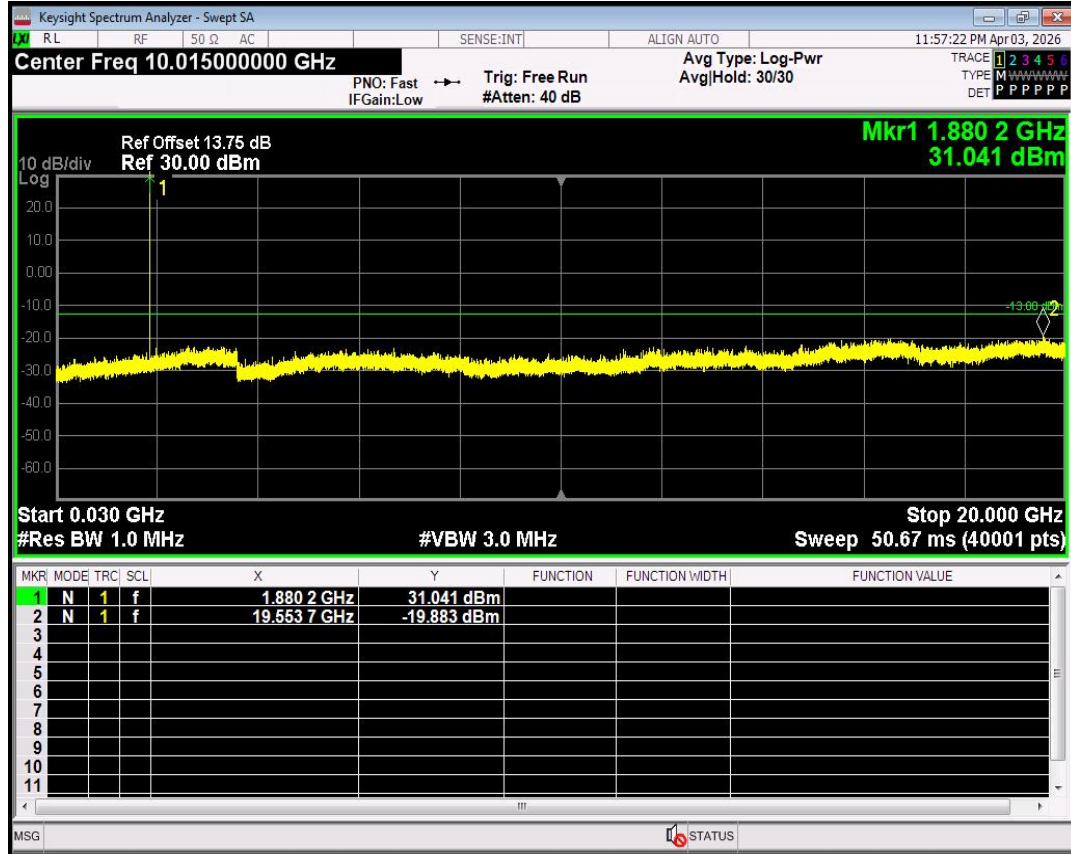
GSM850 Channel=190 NVNT



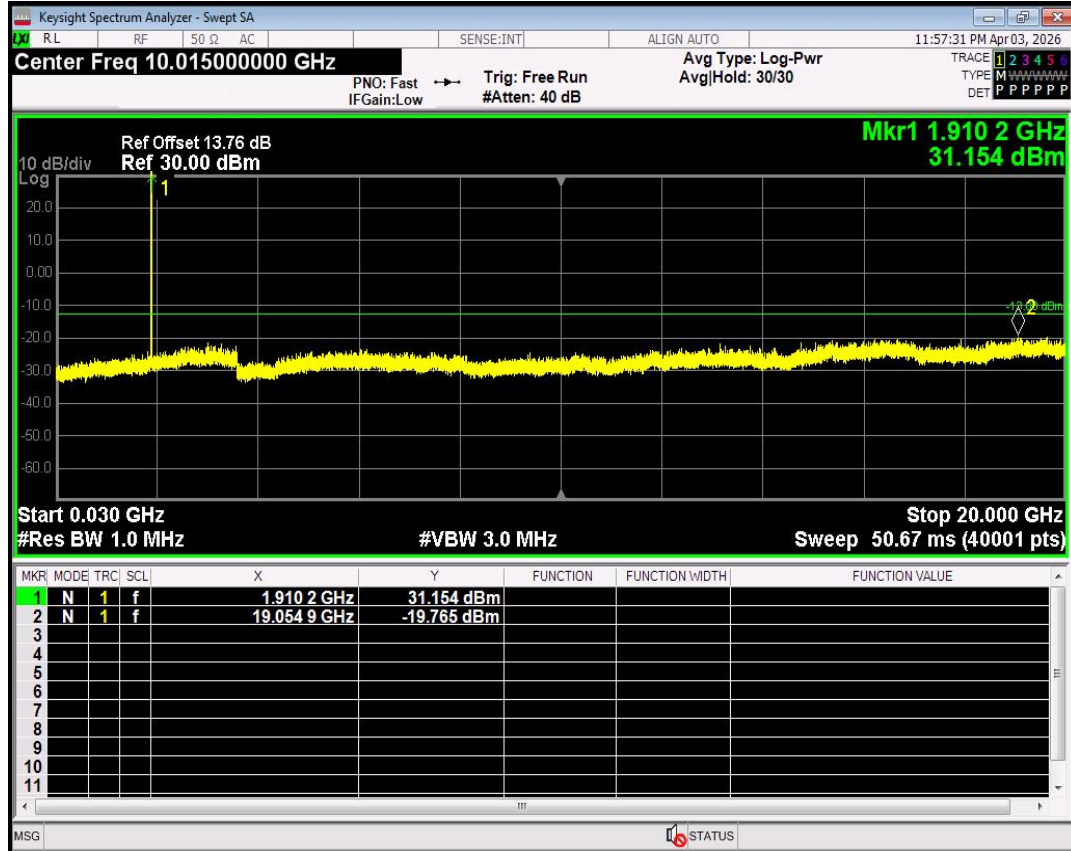
GSM850 Channel=251 NVNT



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	32.388	-3.2	27.038	505.59	7000	PASS
NVNT	GPRS850 1 Slot	190	836.6	32.67221	-3.2	27.32221	539.79	7000	PASS
NVNT	GPRS850 1 Slot	251	848.8	32.47214	-3.2	27.12214	515.48	7000	PASS
NVNT	GPRS850 2 Slot	128	824.2	31.55563	-3.2	26.20563	417.41	7000	PASS
NVNT	GPRS850 2 Slot	190	836.6	31.79456	-3.2	26.44456	441.02	7000	PASS
NVNT	GPRS850 2 Slot	251	848.8	31.5907	-3.2	26.2407	420.79	7000	PASS
NVNT	GPRS850 3 Slot	128	824.2	29.60422	-3.2	24.25422	266.33	7000	PASS
NVNT	GPRS850 3 Slot	190	836.6	29.87036	-3.2	24.52036	283.16	7000	PASS
NVNT	GPRS850 3 Slot	251	848.8	29.6662	-3.2	24.3162	270.16	7000	PASS
NVNT	GPRS850 4 Slot	128	824.2	28.3848	-3.2	23.0348	201.13	7000	PASS
NVNT	GPRS850 4 Slot	190	836.6	28.70181	-3.2	23.35181	216.36	7000	PASS
NVNT	GPRS850 4 Slot	251	848.8	28.55618	-3.2	23.20618	209.23	7000	PASS

07 Conducted output power (EIRP)

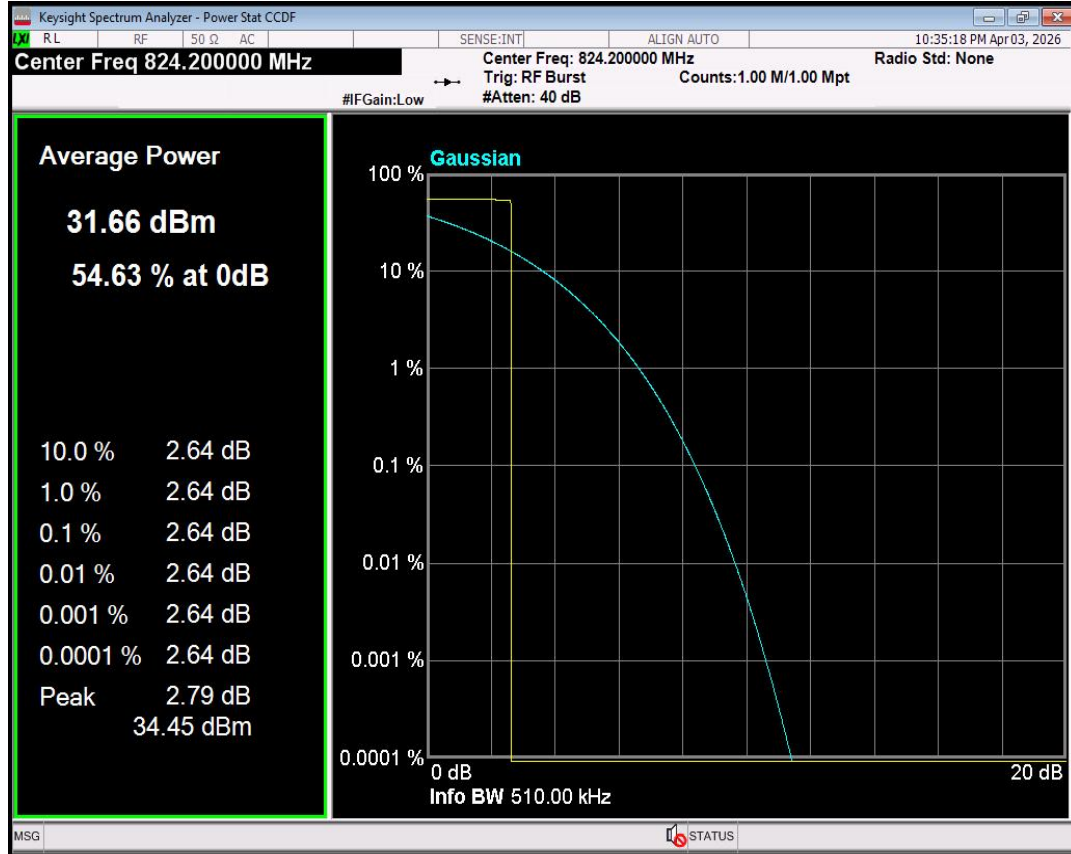
Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	EIRP Limit (mW)	Verdict
NVNT	GPRS1900 1 Slot	512	1850.2	30.74731	1.2	31.94731	1565.78	2000	PASS
NVNT	GPRS1900 1 Slot	661	1880	30.64545	1.2	31.84545	1529.48	2000	PASS
NVNT	GPRS1900 1 Slot	810	1909.8	30.64584	1.2	31.84584	1529.62	2000	PASS
NVNT	GPRS1900 2 Slot	512	1850.2	29.81699	1.2	31.01699	1263.86	2000	PASS
NVNT	GPRS1900 2 Slot	661	1880	29.72183	1.2	30.92183	1236.47	2000	PASS
NVNT	GPRS1900 2 Slot	810	1909.8	29.76874	1.2	30.96874	1249.9	2000	PASS
NVNT	GPRS1900 3 Slot	512	1850.2	27.83072	1.2	29.03072	799.97	2000	PASS
NVNT	GPRS1900 3 Slot	661	1880	27.7674	1.2	28.9674	788.39	2000	PASS
NVNT	GPRS1900 3 Slot	810	1909.8	27.9046	1.2	29.1046	813.69	2000	PASS
NVNT	GPRS1900 4 Slot	512	1850.2	26.65897	1.2	27.85897	610.8	2000	PASS
NVNT	GPRS1900 4 Slot	661	1880	26.64087	1.2	27.84087	608.26	2000	PASS
NVNT	GPRS1900 4 Slot	810	1909.8	26.80994	1.2	28.00994	632.4	2000	PASS

08 Frequency stability

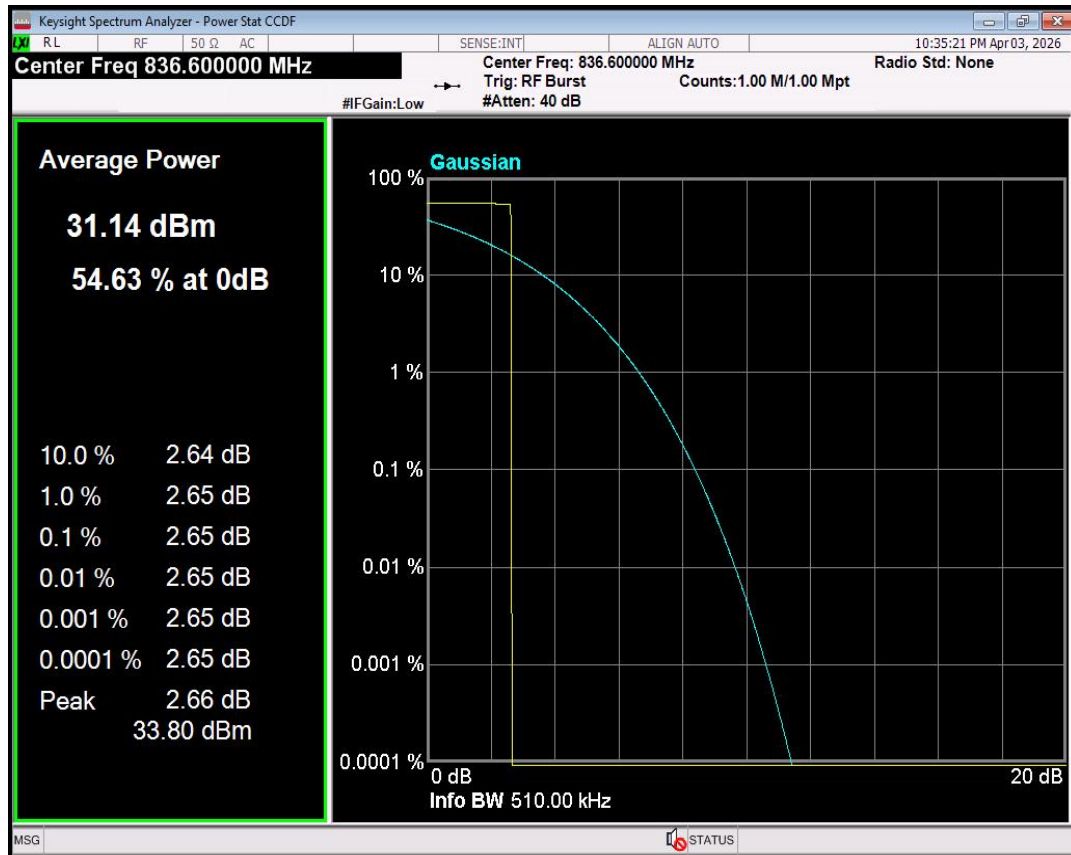
Condition	Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
NVNT	GPRS850	128	824.2	-4.068017	0.00	-2.500	2.5	PASS
NVNT	GPRS850	190	836.6	-2.582868	0.00	-2.500	2.5	PASS
NVNT	GPRS850	251	848.8	-2.292295	0.00	-2.500	2.5	PASS
NVNT	GPRS1900	512	1850.2	12.88205	0.01	-2.500	2.5	PASS
NVNT	GPRS1900	661	1880	12.04262	0.01	-2.500	2.5	PASS
NVNT	GPRS1900	810	1909.8	13.20491	0.01	-2.500	2.5	PASS
LVLT	GPRS850	128	824.2	3.551443	0.00	-2.500	2.5	PASS
LVLT	GPRS850	190	836.6	2.260009	0.00	-2.500	2.5	PASS
LVLT	GPRS850	251	848.8	3.519158	0.00	-2.500	2.5	PASS
LVLT	GPRS1900	512	1850.2	10.97719	0.01	-2.500	2.5	PASS
LVLT	GPRS1900	661	1880	10.00861	0.01	-2.500	2.5	PASS
LVLT	GPRS1900	810	1909.8	12.30091	0.01	-2.500	2.5	PASS
LVHT	GPRS850	128	824.2	2.518296	0.00	-2.500	2.5	PASS
LVHT	GPRS850	190	836.6	1.32372	0.00	-2.500	2.5	PASS
LVHT	GPRS850	251	848.8	1.678864	0.00	-2.500	2.5	PASS
LVHT	GPRS1900	512	1850.2	15.43264	0.01	-2.500	2.5	PASS
LVHT	GPRS1900	661	1880	13.39863	0.01	-2.500	2.5	PASS
LVHT	GPRS1900	810	1909.8	16.2075	0.01	-2.500	2.5	PASS
HVLT	GPRS850	128	824.2	3.325442	0.00	-2.500	2.5	PASS
HVLT	GPRS850	190	836.6	2.776583	0.00	-2.500	2.5	PASS
HVLT	GPRS850	251	848.8	6.489456	0.01	-2.500	2.5	PASS
HVLT	GPRS1900	512	1850.2	13.9152	0.01	-2.500	2.5	PASS
HVLT	GPRS1900	661	1880	17.3375	0.01	-2.500	2.5	PASS
HVLT	GPRS1900	810	1909.8	17.3375	0.01	-2.500	2.5	PASS
HVHT	GPRS850	128	824.2	-0.8071462	0.00	-2.500	2.5	PASS
HVHT	GPRS850	190	836.6	1.614292	0.00	-2.500	2.5	PASS
HVHT	GPRS850	251	848.8	1.872579	0.00	-2.500	2.5	PASS
HVHT	GPRS1900	512	1850.2	12.04262	0.01	-2.500	2.5	PASS
HVHT	GPRS1900	661	1880	19.21008	0.01	-2.500	2.5	PASS
HVHT	GPRS1900	810	1909.8	14.78692	0.01	-2.500	2.5	PASS

09 Peak-to-Average Ratio

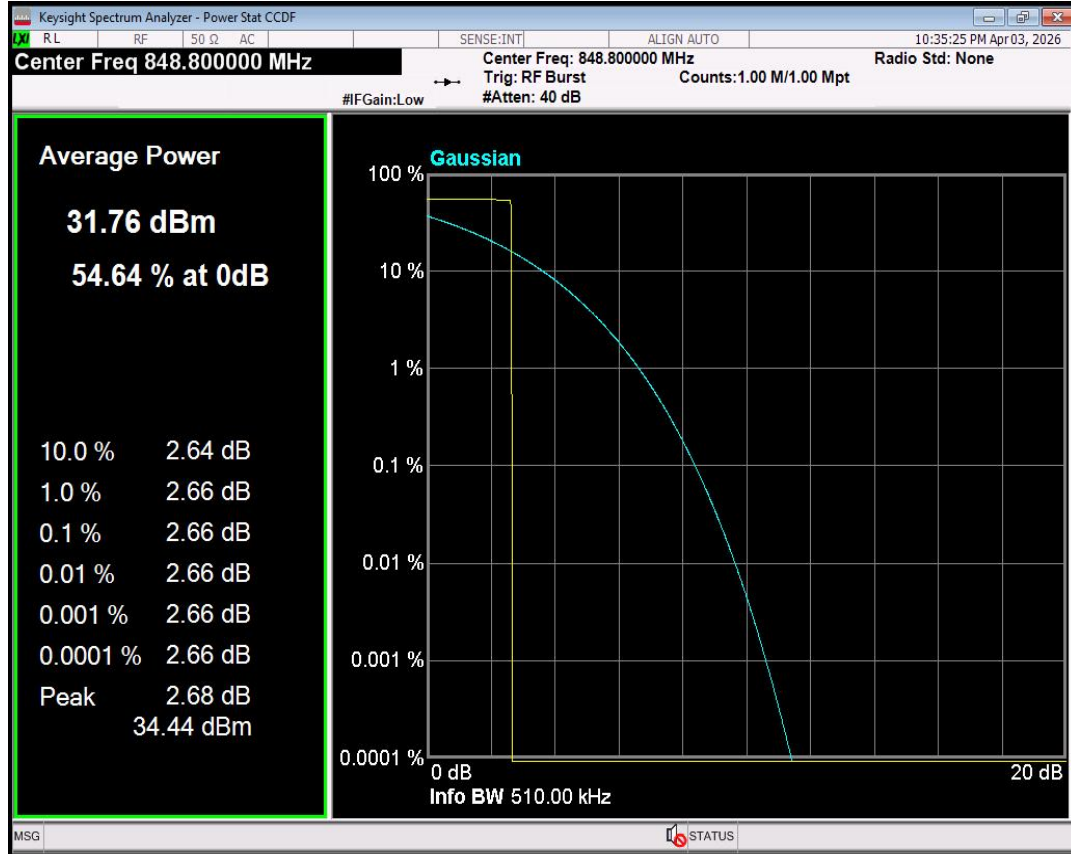
Condition	Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
NVNT	GPRS850	128	824.2	2.64	13.00	PASS
NVNT	GPRS850	190	836.6	2.65	13.00	PASS
NVNT	GPRS850	251	848.8	2.659967924	13.00	PASS
NVNT	GPRS1900	512	1850.2	2.64963578	13.00	PASS
NVNT	GPRS1900	661	1880	2.658855698	13.00	PASS
NVNT	GPRS1900	810	1909.8	2.668769387	13.00	PASS



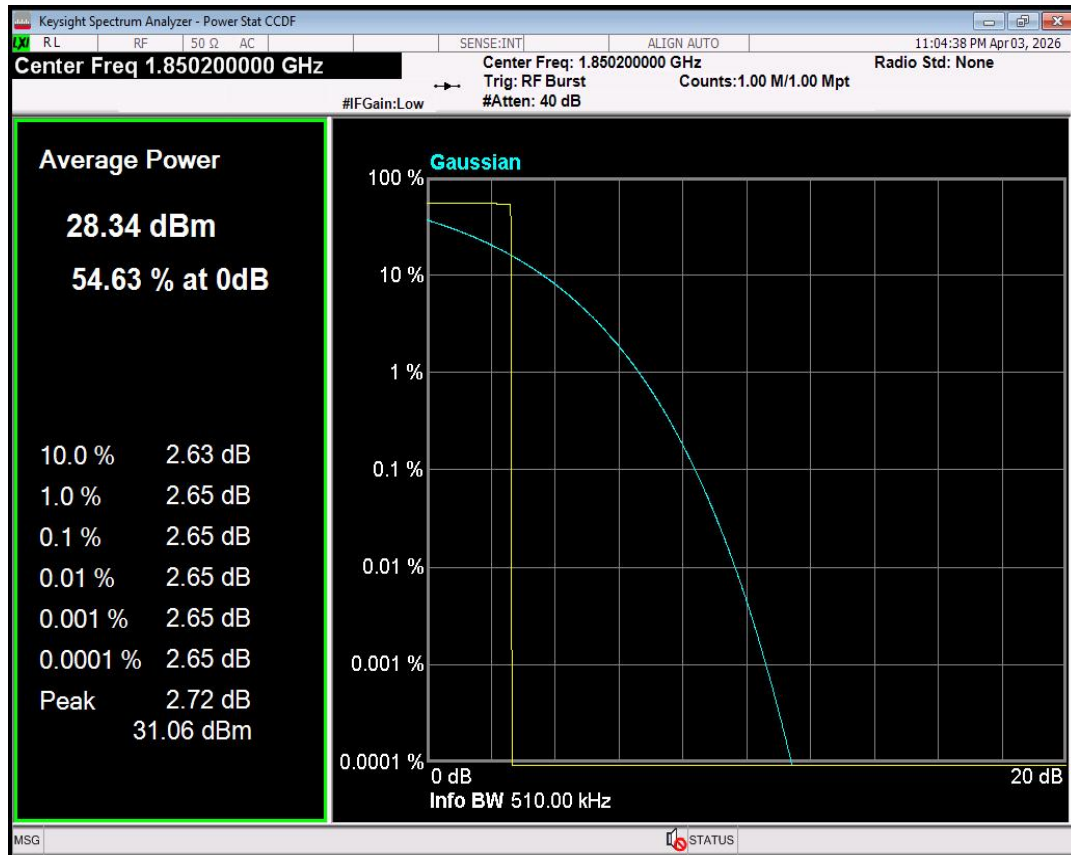
GPRS850 Channel=128 NVNT



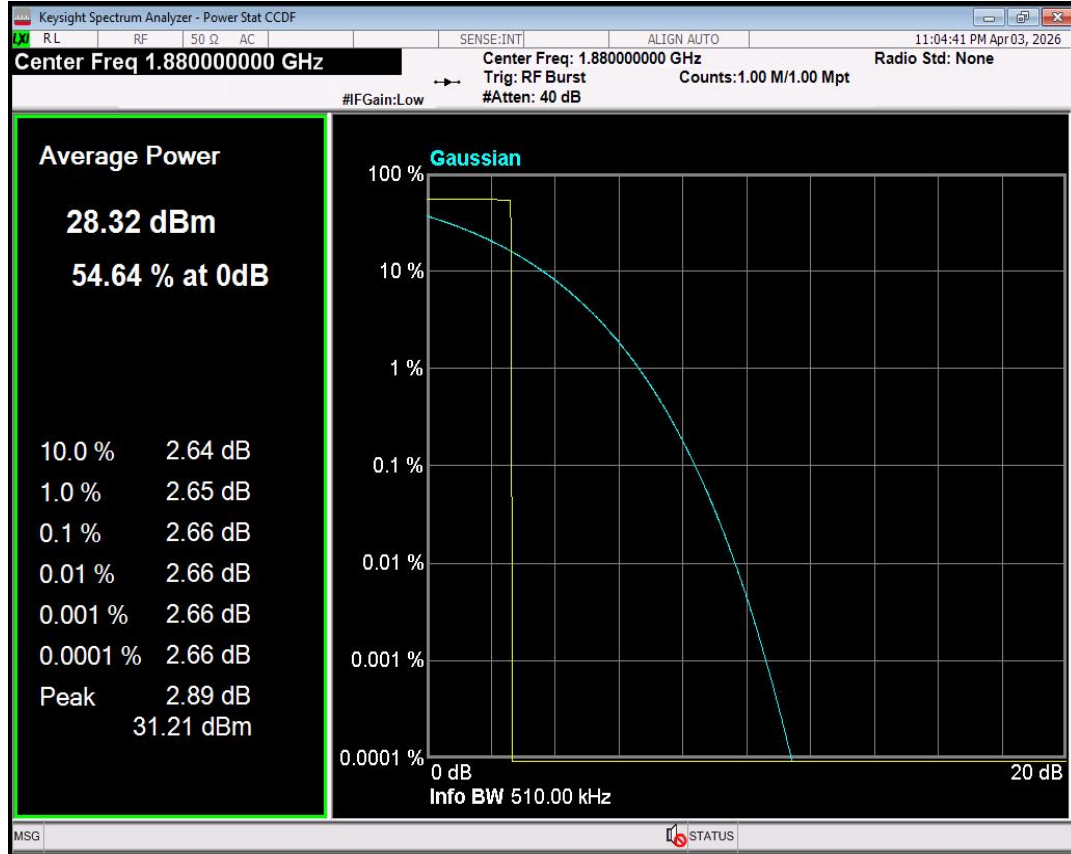
GPRS850 Channel=190 NVNT



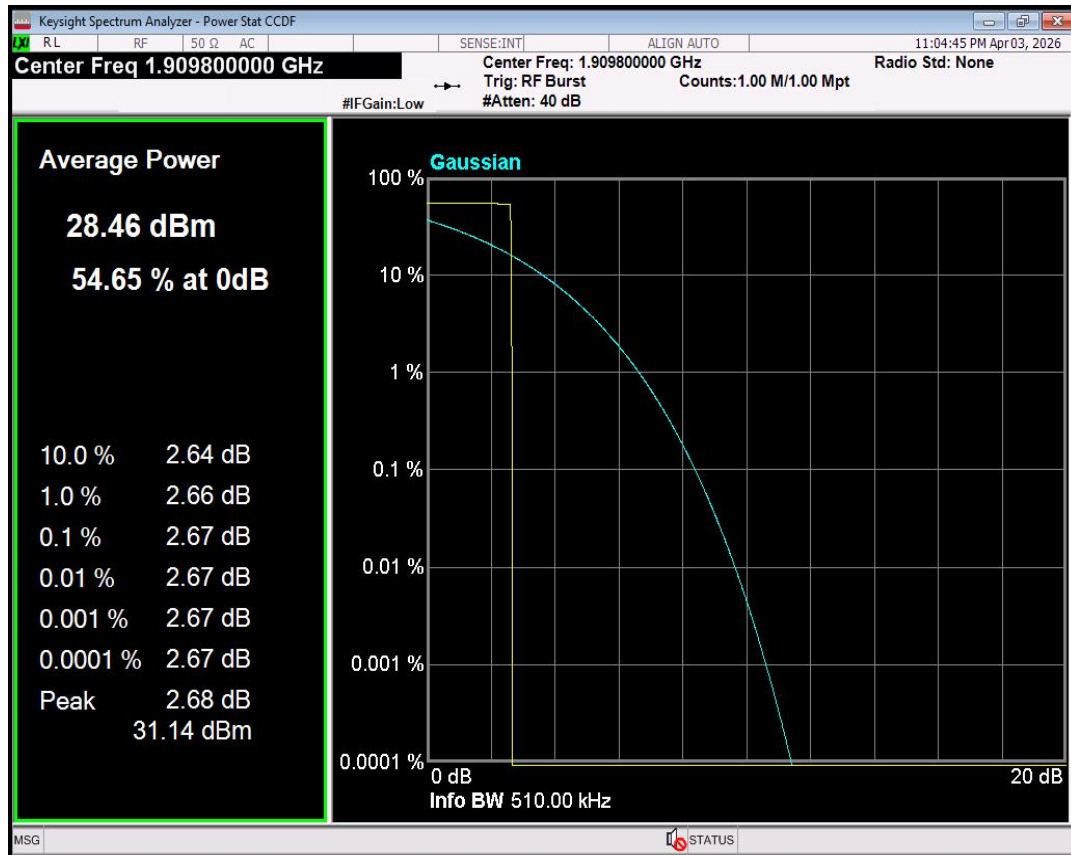
GPRS850 Channel=251 NVNT



GPRS1900 Channel=512 NVNT



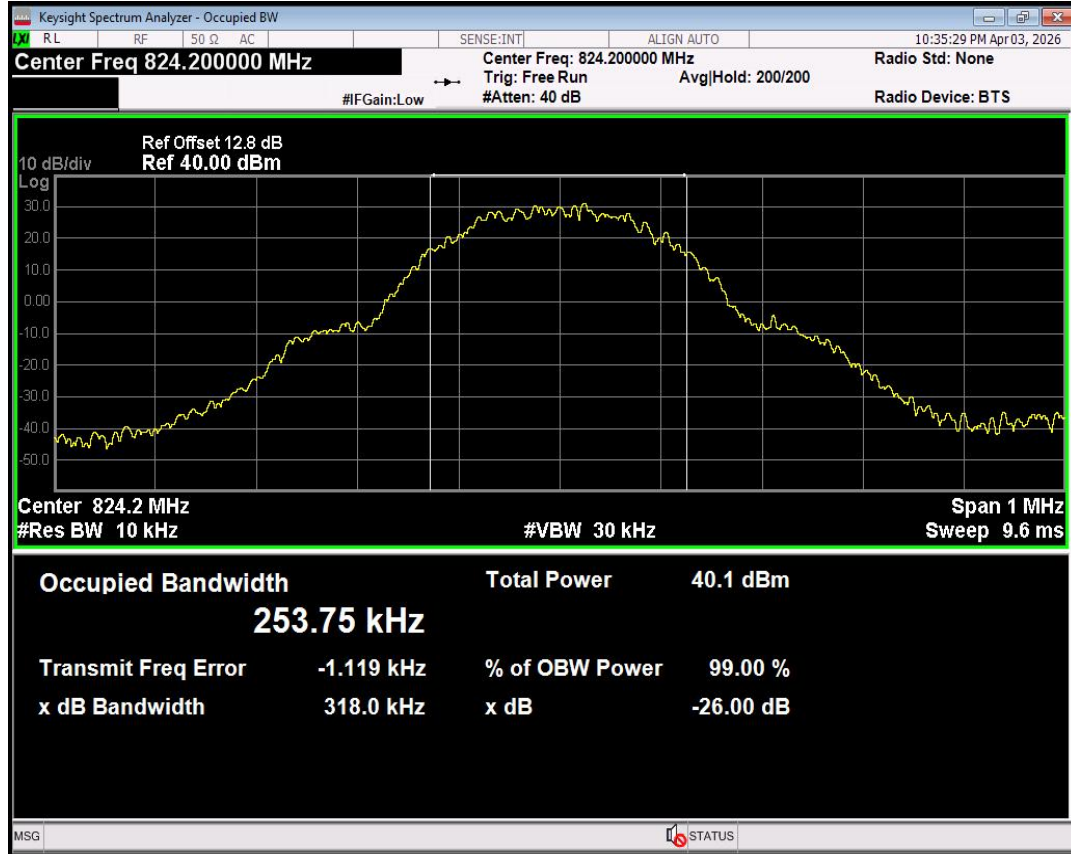
GPRS1900 Channel=661 NVNT



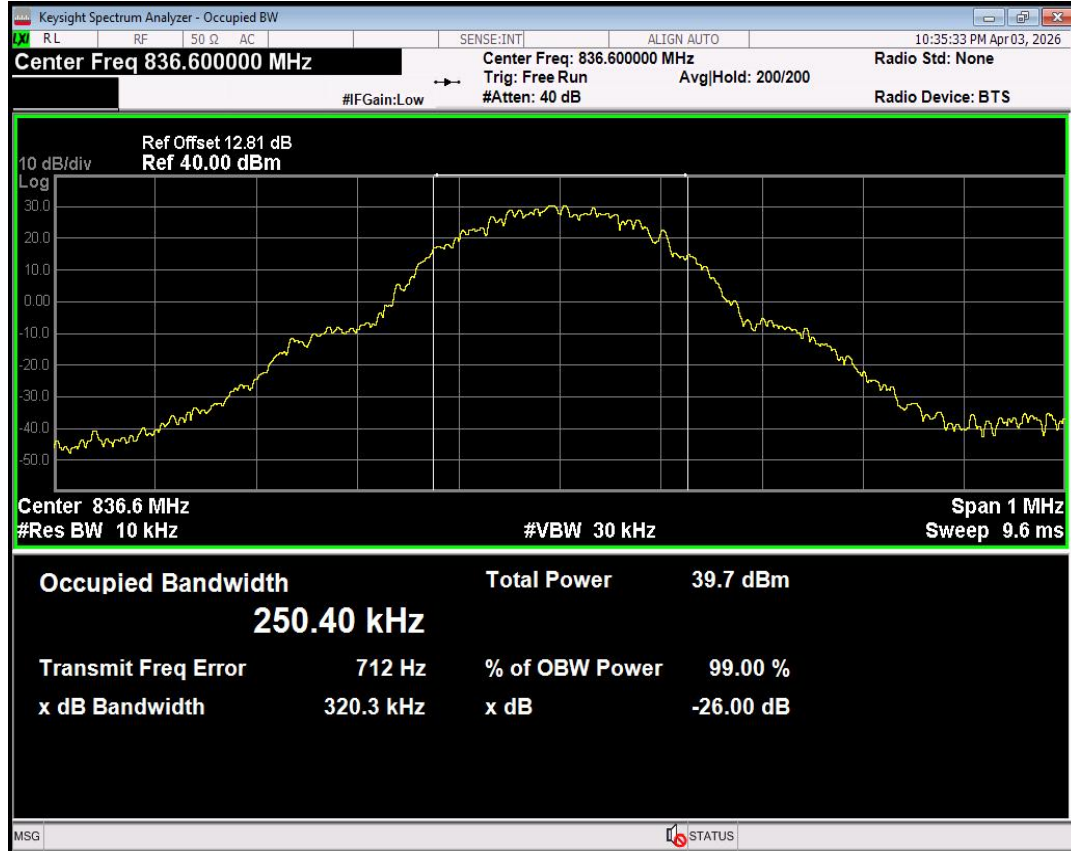
GPRS1900 Channel=810 NVNT

10 Occupied bandwidth

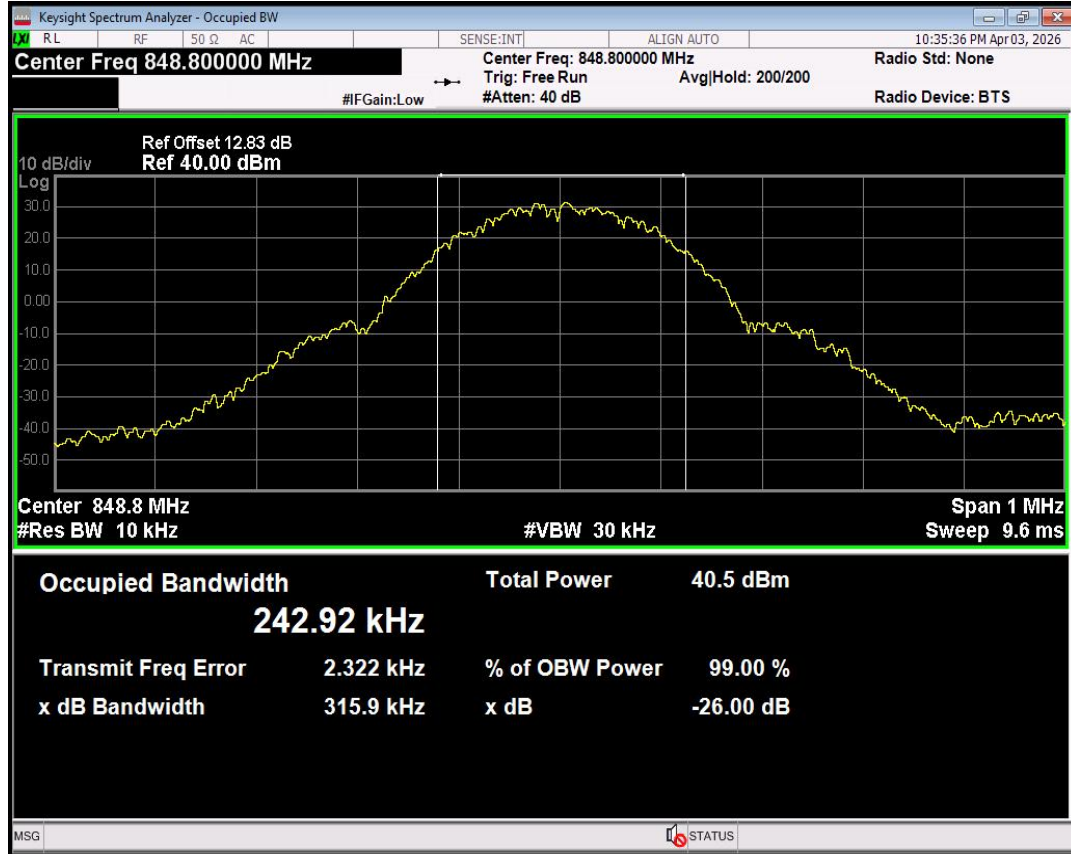
Condition	Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
NVNT	GPRS850	128	824.2	253.754	318.002	PASS
NVNT	GPRS850	190	836.6	250.397	320.298	PASS
NVNT	GPRS850	251	848.8	242.916	315.931	PASS
NVNT	GPRS1900	512	1850.2	245.357	306.261	PASS
NVNT	GPRS1900	661	1880	244.601	318.449	PASS
NVNT	GPRS1900	810	1909.8	241.125	316.360	PASS



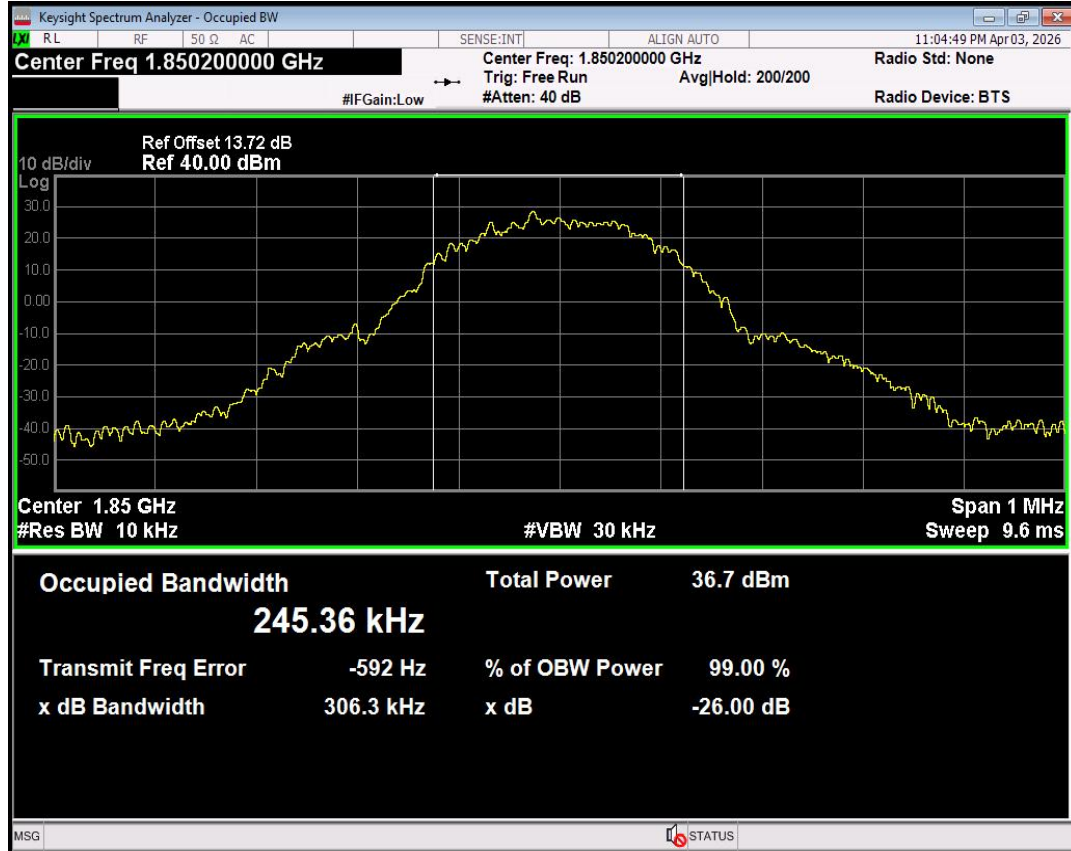
GPRS850 Channel=128 NVNT



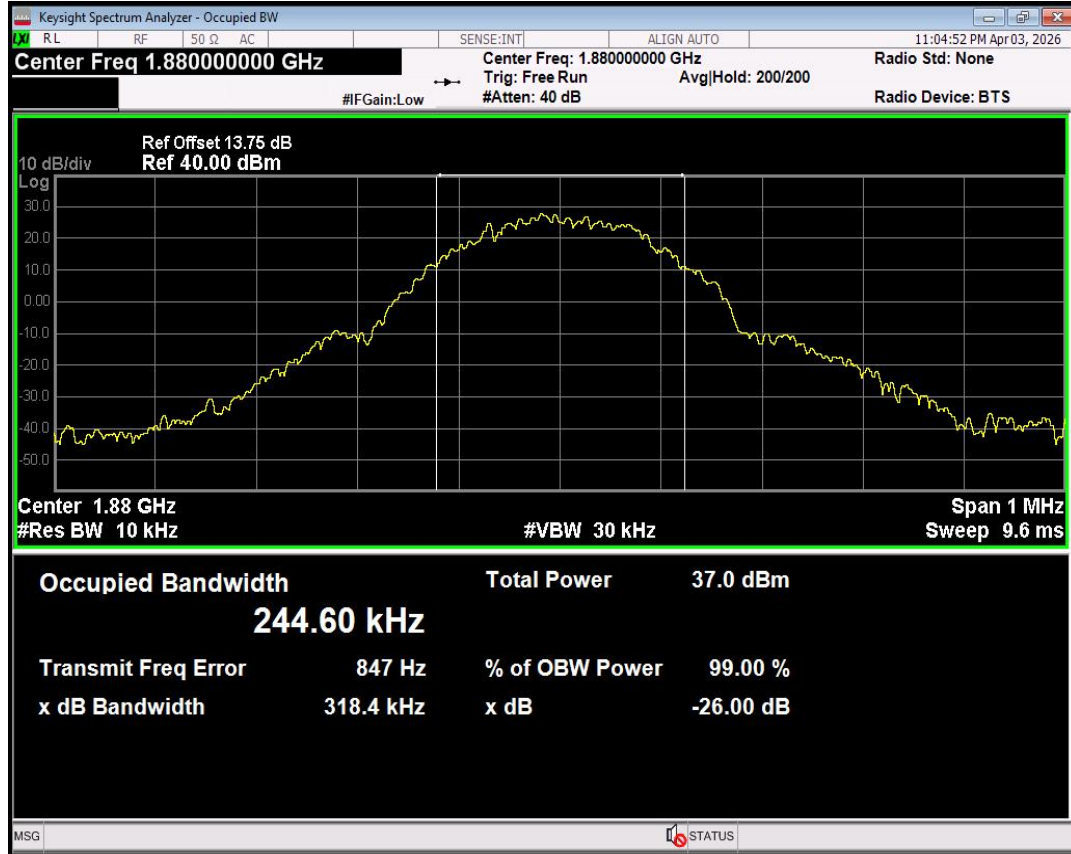
GPRS850 Channel=190 NVNT



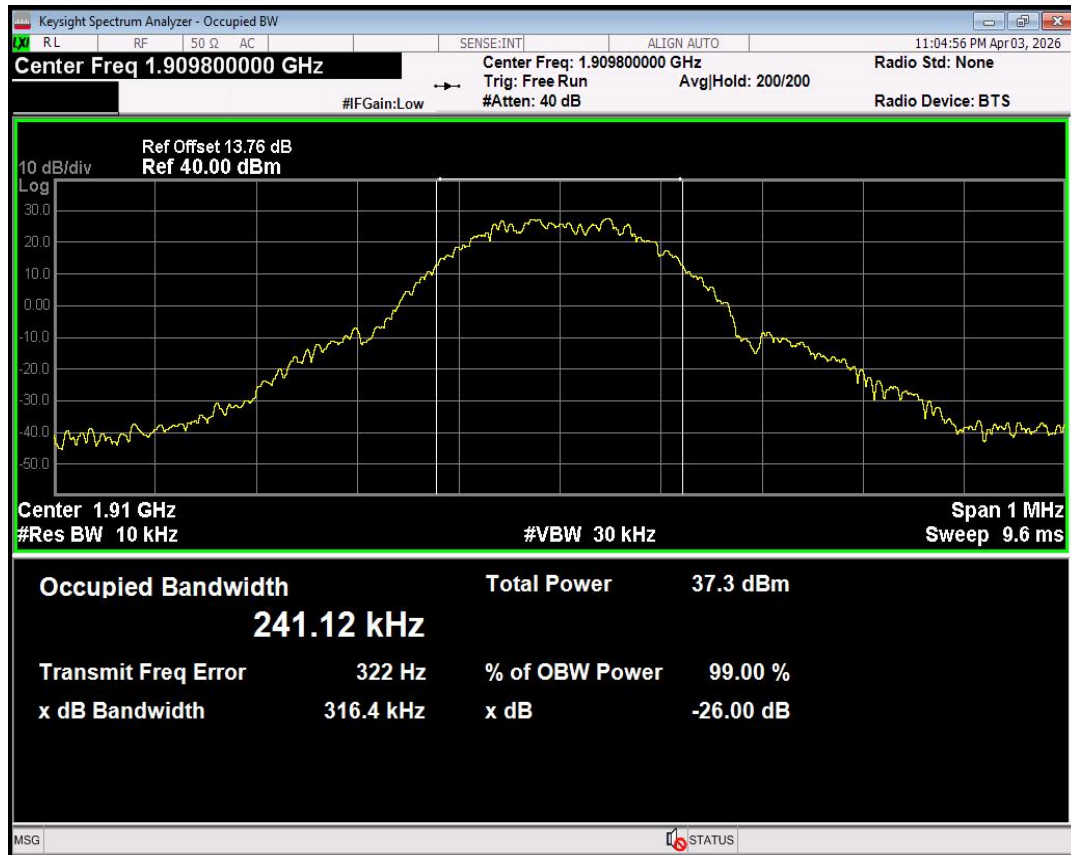
GPRS850 Channel=251 NVNT



GPRS1900 Channel=512 NVNT



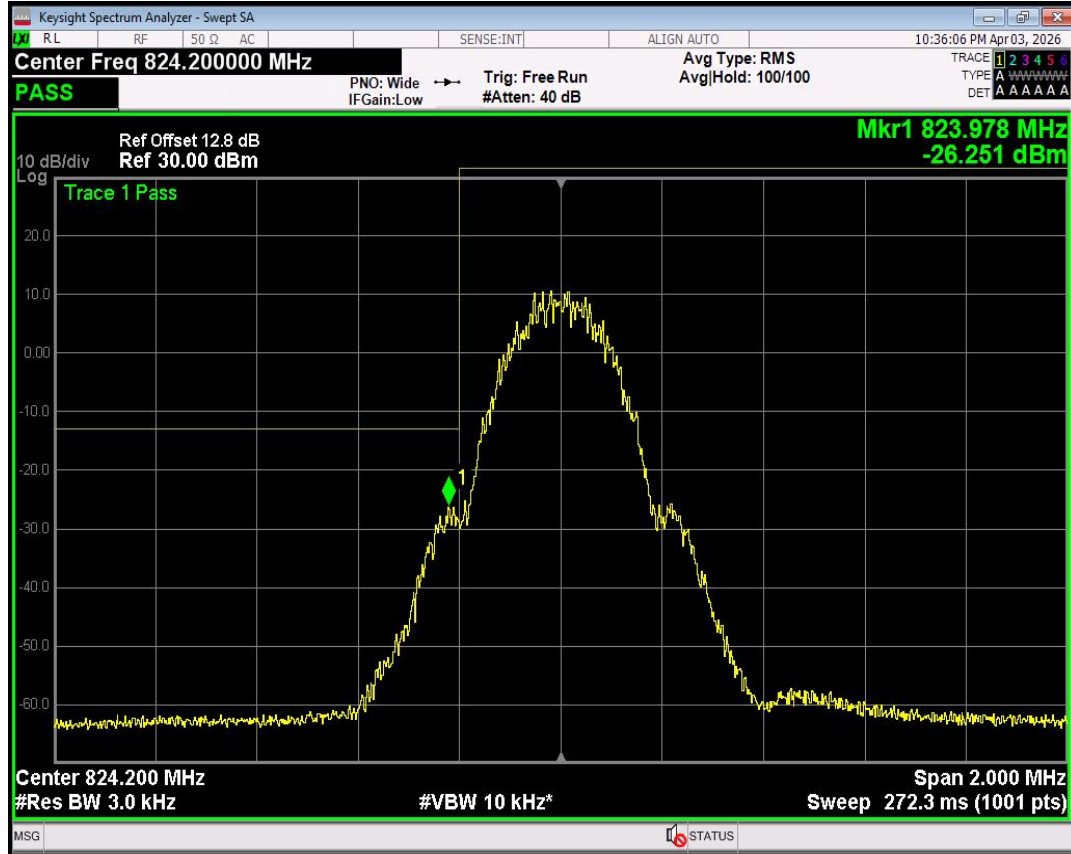
GPRS1900 Channel=661 NVNT



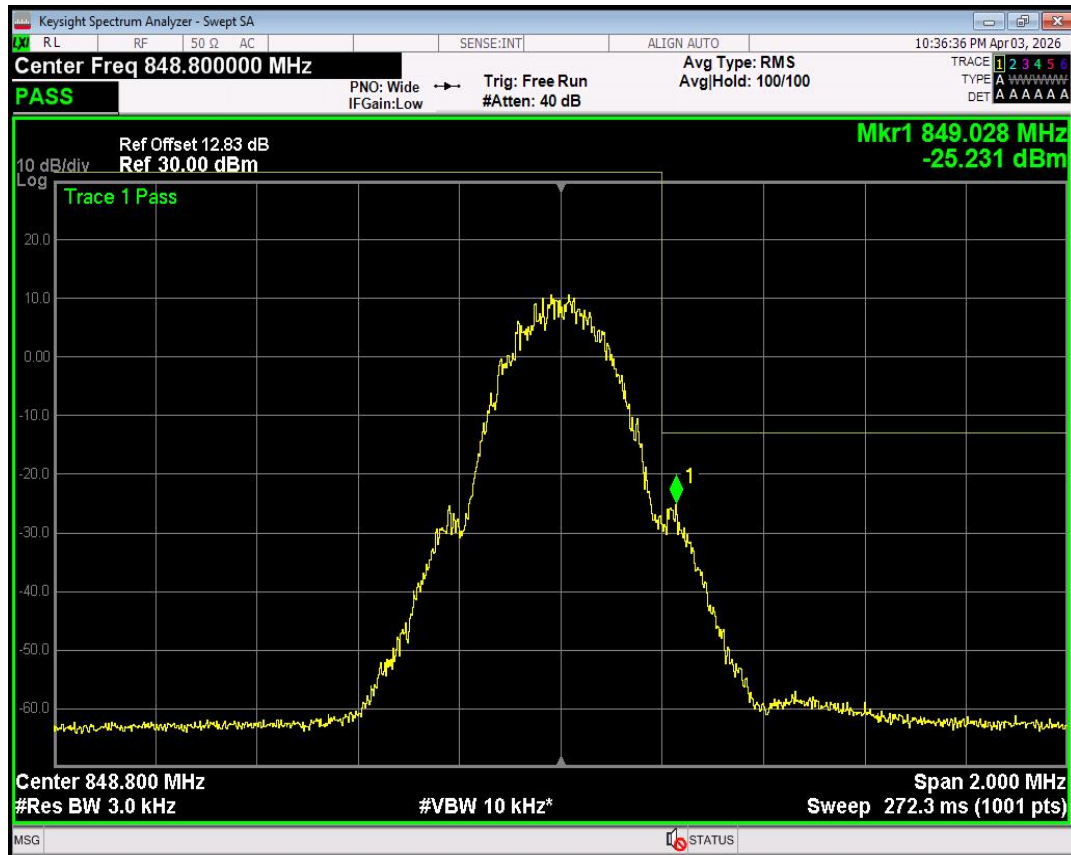
GPRS1900 Channel=810 NVNT

11 Band edge

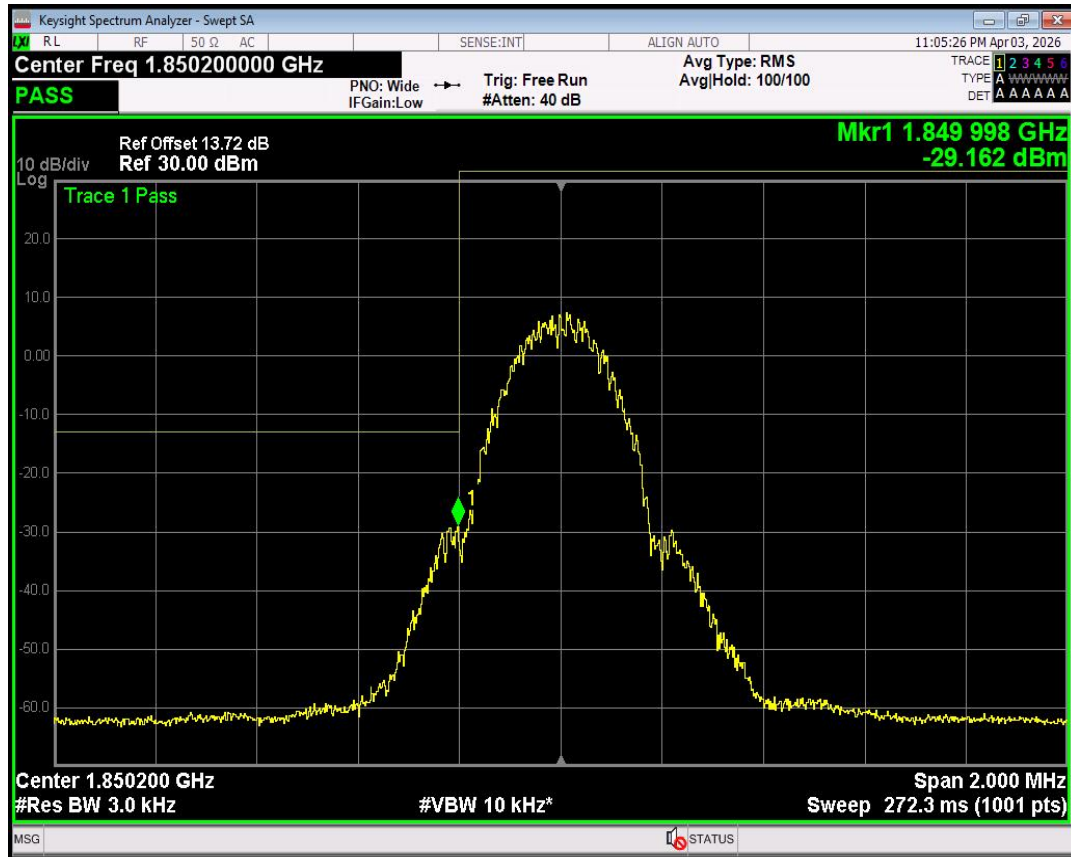
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
NVNT	GPRS850	128	824.2	823.98	-26.25	-13	PASS
NVNT	GPRS850	251	848.8	849.03	-25.23	-13	PASS
NVNT	GPRS1900	512	1850.2	1850.00	-29.16	-13	PASS
NVNT	GPRS1900	810	1909.8	1910.03	-29.33	-13	PASS



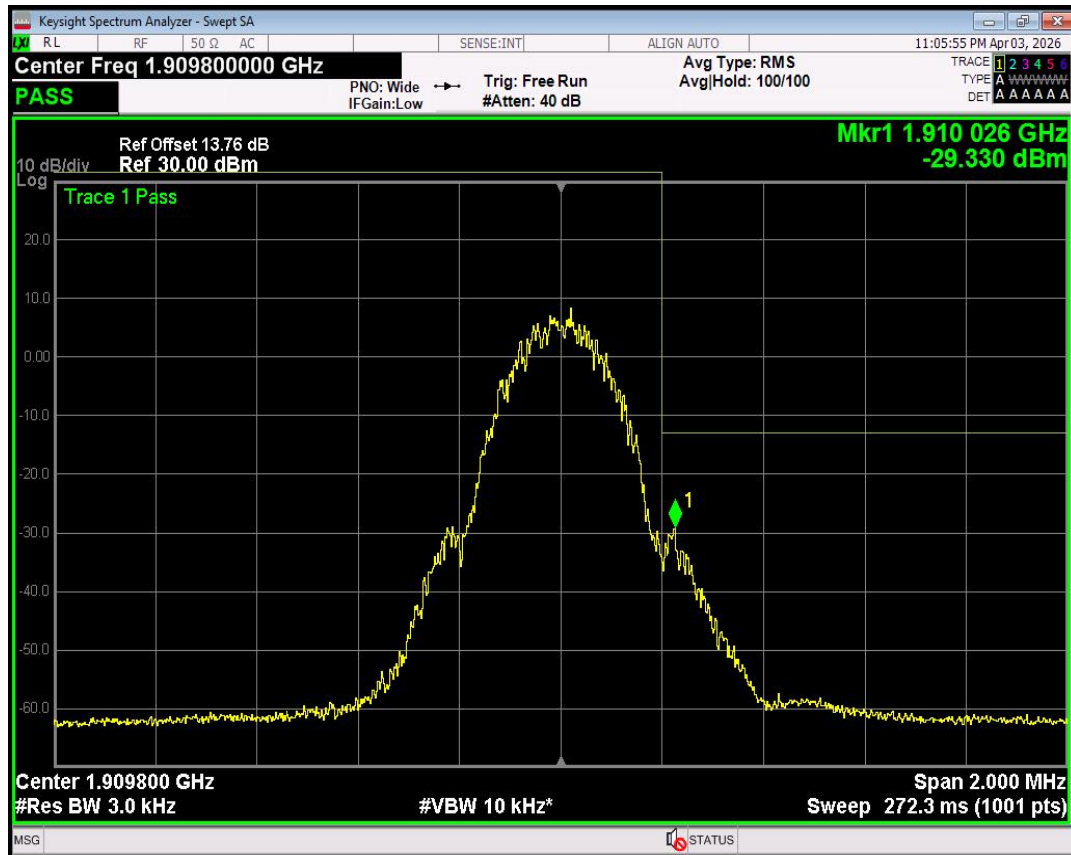
GPRS850 Channel=128 NVNT



GPRS850 Channel=251 NVNT



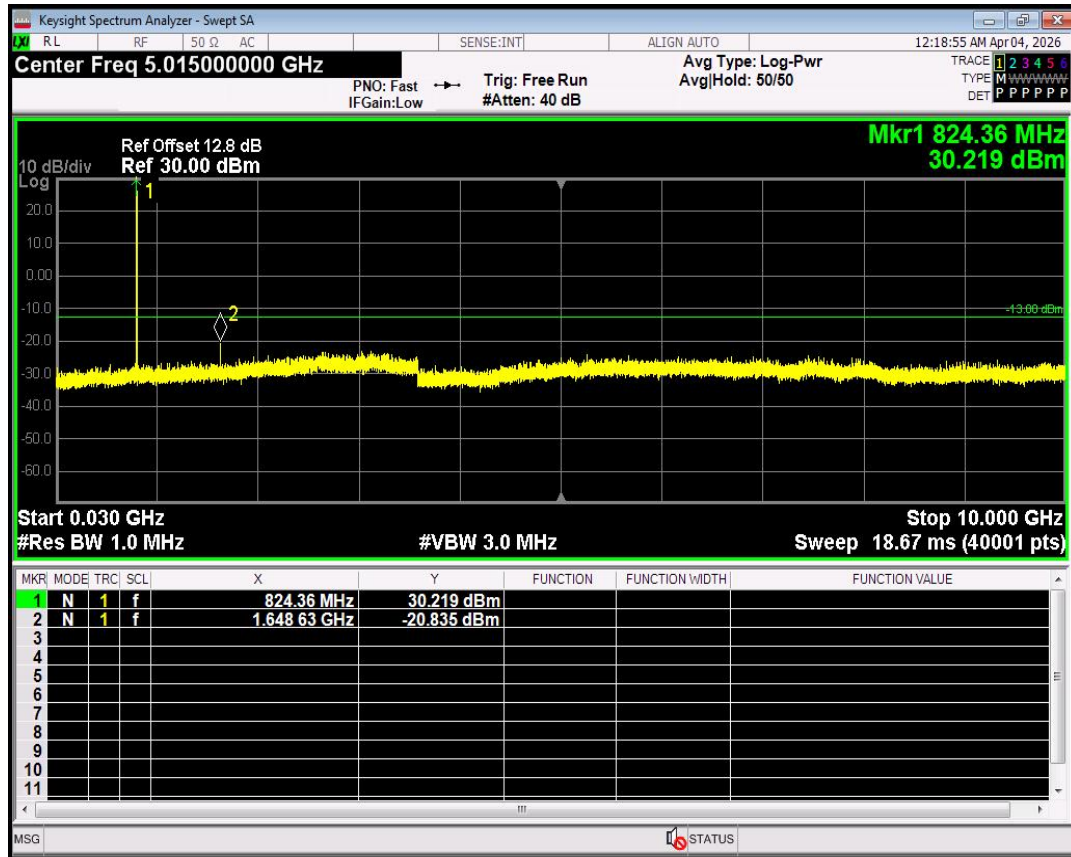
GPRS1900 Channel=512 NVNT



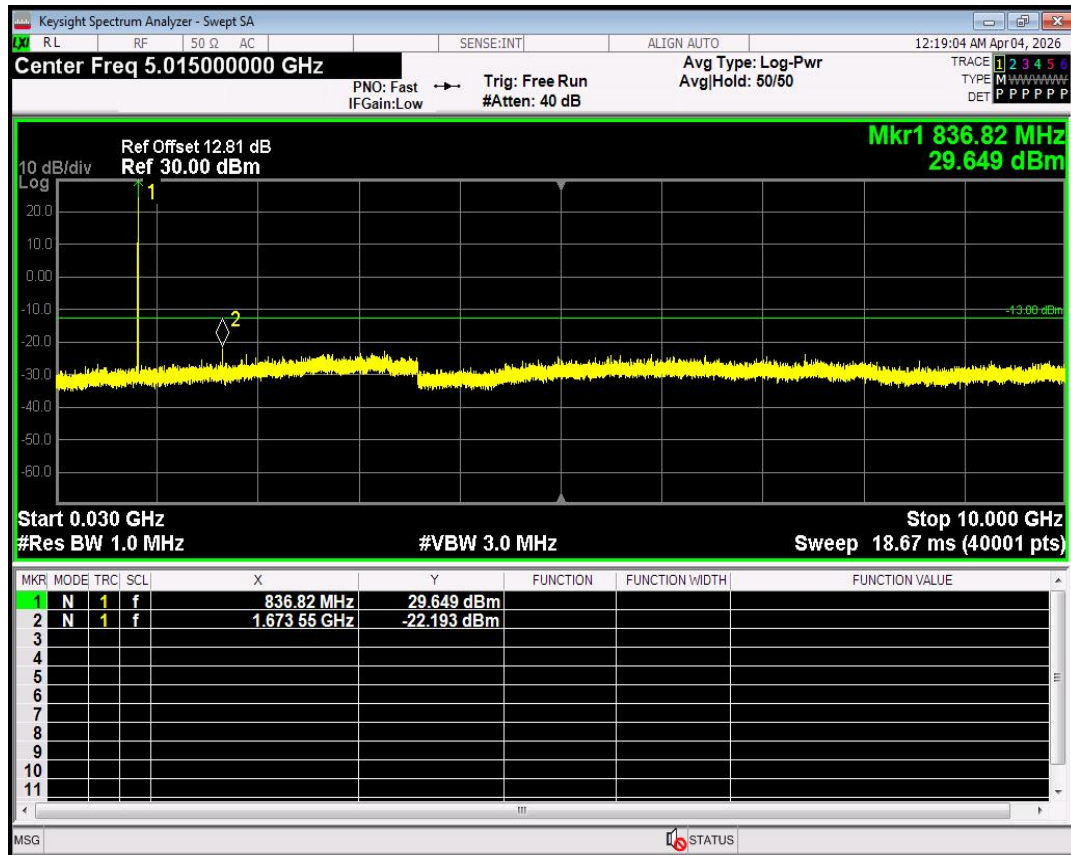
GPRS1900 Channel=810 NVNT

12 Out-of-band emissions

Condition	Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	GPRS850	128	824.2	1648.63	-20.83	-13	PASS
NVNT	GPRS850	190	836.6	1673.55	-22.19	-13	PASS
NVNT	GPRS850	251	848.8	3015.27	-23.13	-13	PASS
NVNT	GPRS1900	512	1850.2	19272.59	-18.97	-13	PASS
NVNT	GPRS1900	661	1880	19434.85	-19.58	-13	PASS
NVNT	GPRS1900	810	1909.8	19169.25	-19.76	-13	PASS



GPRS850 Channel=128 NVNT



GPRS850 Channel=190 NVNT