

Appendix H_GSM

01 Conducted output power (EIRP)	2
01 Conducted output power (ERP)	3
02 Frequency stability	4
03 Peak-to-Average Ratio	5
04 Occupied bandwidth	9
05 Band edge	13
06 Out-of-band emissions	16
07 Conducted output power (ERP)	20
07 Conducted output power (EIRP)	21
08 Frequency stability	22
09 Peak-to-Average Ratio	23
10 Occupied bandwidth	27
11 Band edge	31
12 Out-of-band emissions	34
13 Conducted output power (EIRP)	38
13 Conducted output power (ERP)	39
14 Frequency stability	40
15 Peak-to-Average Ratio	41
16 Occupied bandwidth	45
17 Band edge	49
18 Out-of-band emissions	52

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	29.29	1.3	30.59	1145.51	2000	PASS
NVNT	GSM1900	661	1880	28.84	1.3	30.14	1032.76	2000	PASS
NVNT	GSM1900	810	1909.8	28.85	1.3	30.15	1035.14	2000	PASS

01 Conducted output power (ERP)

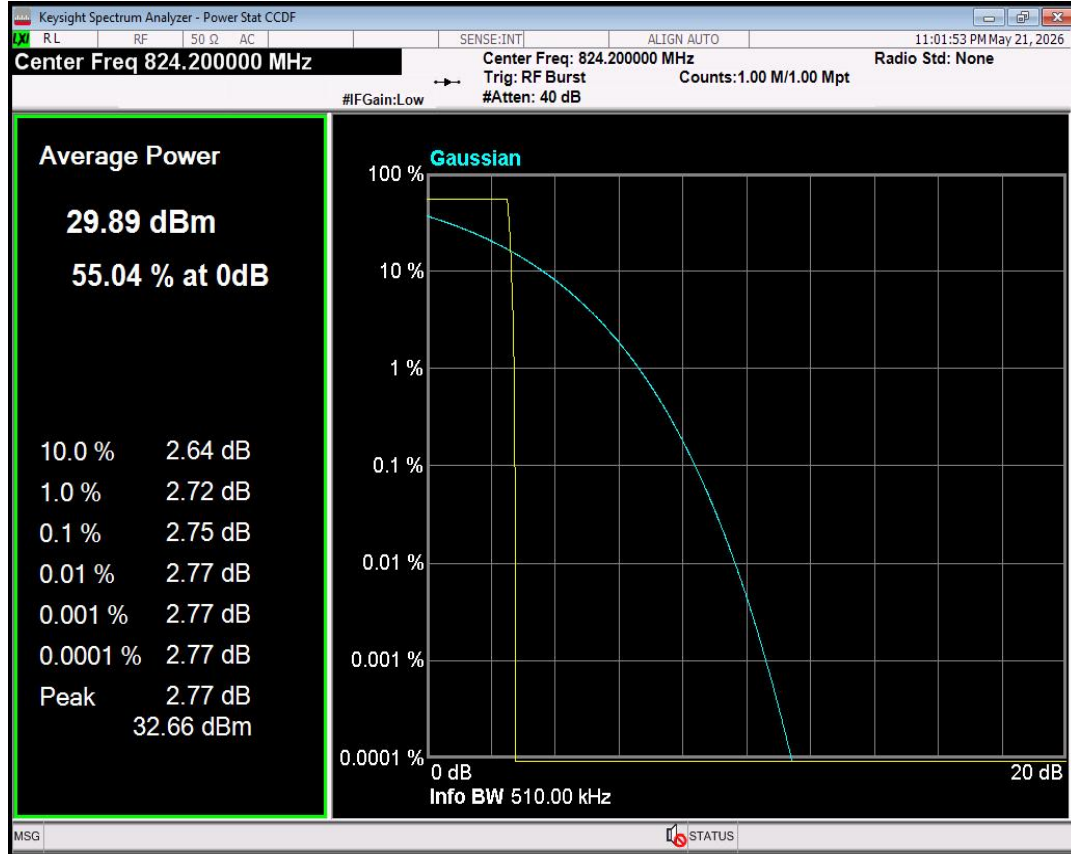
Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	ERP Limit (mW)	Verdict
NVNT	GSM850	128	824.2	32.96	0.8	31.61	1448.77	7000	PASS
NVNT	GSM850	190	836.6	32.96	0.8	31.61	1448.77	7000	PASS
NVNT	GSM850	251	848.8	32.45	0.8	31.1	1288.25	7000	PASS

02 Frequency stability

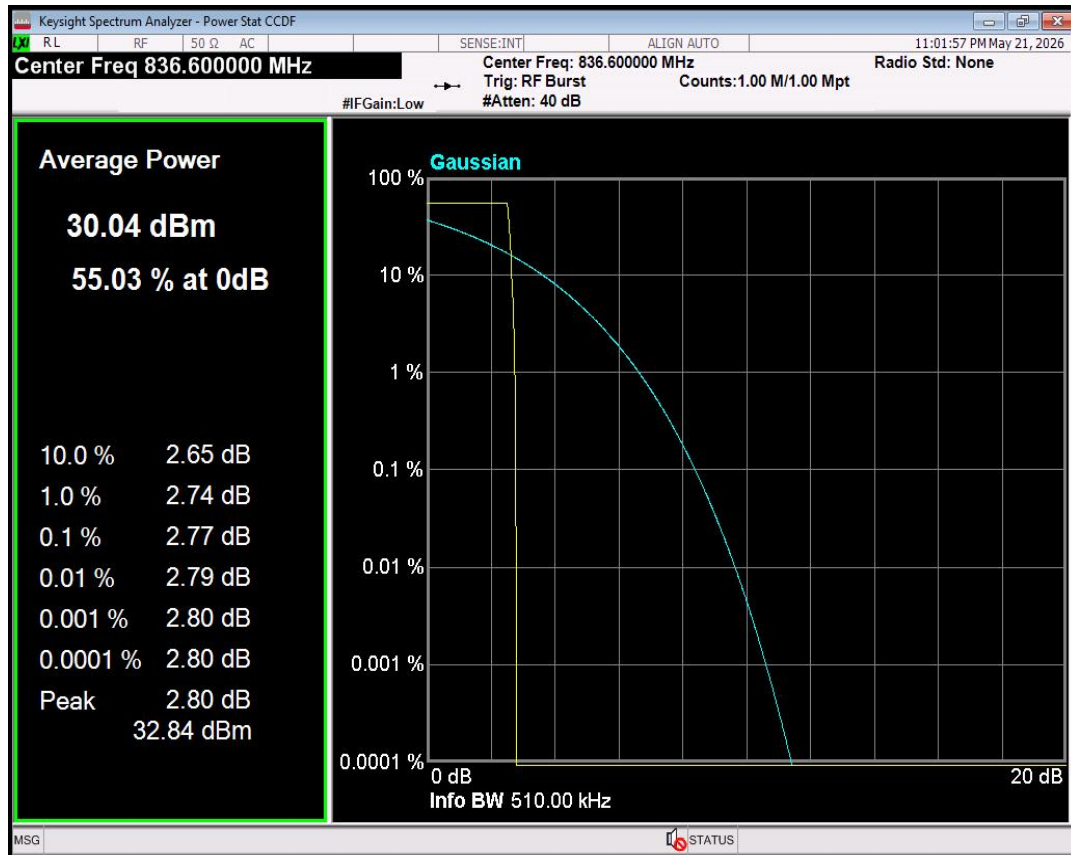
Condition	Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
NVNT	GSM850	128	824.2	10.85	0.013	-2.5	2.5	PASS
NVNT	GSM850	190	836.6	6.91	0.008	-2.5	2.5	PASS
NVNT	GSM850	251	848.8	14.08	0.017	-2.5	2.5	PASS
NVNT	GSM1900	512	1850.2	98.99	0.054	-2.5	2.5	PASS
NVNT	GSM1900	661	1880	98.41	0.052	-2.5	2.5	PASS
NVNT	GSM1900	810	1909.8	101.99	0.053	-2.5	2.5	PASS
LVLT	GSM850	128	824.2	12.11	0.015	-2.5	2.5	PASS
LVLT	GSM850	190	836.6	12.04	0.014	-2.5	2.5	PASS
LVLT	GSM850	251	848.8	15.37	0.018	-2.5	2.5	PASS
LVLT	GSM1900	512	1850.2	100.28	0.054	-2.5	2.5	PASS
LVLT	GSM1900	661	1880	94.98	0.051	-2.5	2.5	PASS
LVLT	GSM1900	810	1909.8	98.60	0.052	-2.5	2.5	PASS
LVHT	GSM850	128	824.2	18.05	0.022	-2.5	2.5	PASS
LVHT	GSM850	190	836.6	16.76	0.020	-2.5	2.5	PASS
LVHT	GSM850	251	848.8	18.85	0.022	-2.5	2.5	PASS
LVHT	GSM1900	512	1850.2	100.05	0.054	-2.5	2.5	PASS
LVHT	GSM1900	661	1880	99.15	0.053	-2.5	2.5	PASS
LVHT	GSM1900	810	1909.8	106.25	0.056	-2.5	2.5	PASS
HVLT	GSM850	128	824.2	19.24	0.023	-2.5	2.5	PASS
HVLT	GSM850	190	836.6	18.14	0.022	-2.5	2.5	PASS
HVLT	GSM850	251	848.8	18.24	0.021	-2.5	2.5	PASS
HVLT	GSM1900	512	1850.2	100.83	0.054	-2.5	2.5	PASS
HVLT	GSM1900	661	1880	109.77	0.058	-2.5	2.5	PASS
HVLT	GSM1900	810	1909.8	108.13	0.057	-2.5	2.5	PASS
HVHT	GSM850	128	824.2	15.08	0.018	-2.5	2.5	PASS
HVHT	GSM850	190	836.6	17.08	0.020	-2.5	2.5	PASS
HVHT	GSM850	251	848.8	19.73	0.023	-2.5	2.5	PASS
HVHT	GSM1900	512	1850.2	99.92	0.054	-2.5	2.5	PASS
HVHT	GSM1900	661	1880	109.06	0.058	-2.5	2.5	PASS
HVHT	GSM1900	810	1909.8	107.61	0.056	-2.5	2.5	PASS

03 Peak-to-Average Ratio

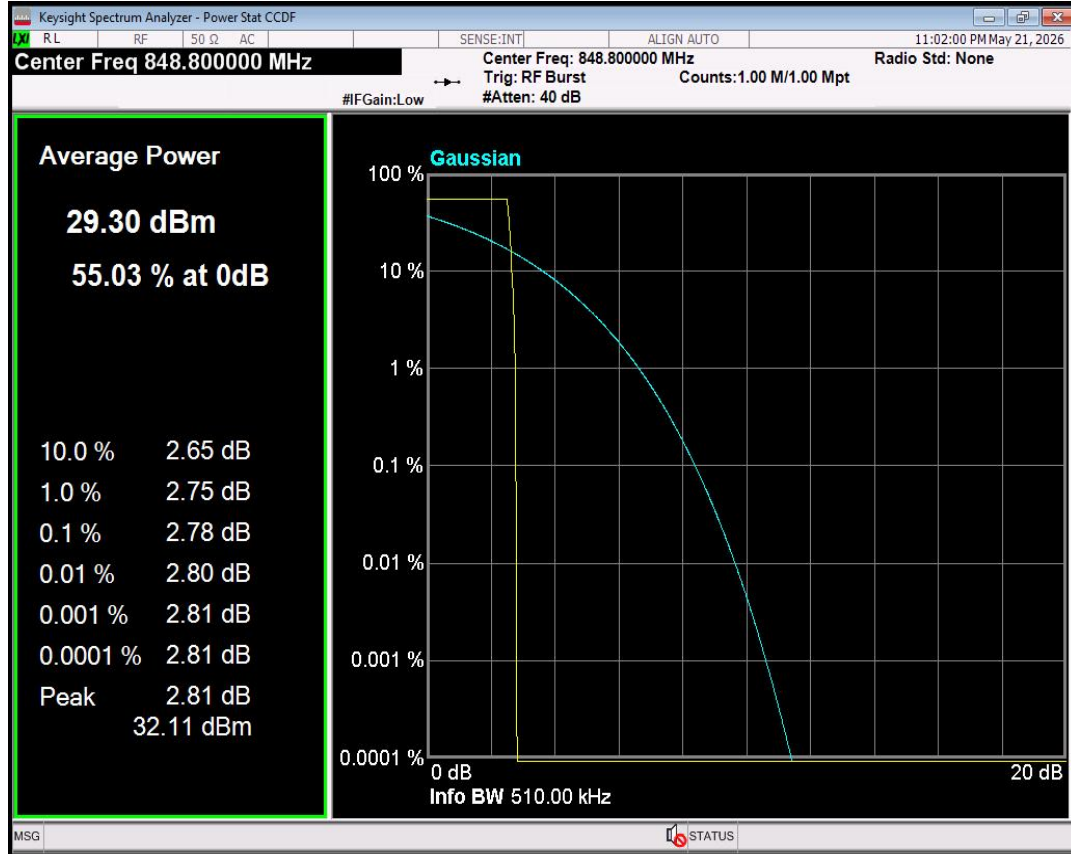
Condition	Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
NVNT	GSM850	128	824.2	2.75	13	PASS
NVNT	GSM850	190	836.6	2.77	13	PASS
NVNT	GSM850	251	848.8	2.78	13	PASS
NVNT	GSM1900	512	1850.2	2.80	13	PASS
NVNT	GSM1900	661	1880	2.81	13	PASS
NVNT	GSM1900	810	1909.8	2.84	13	PASS



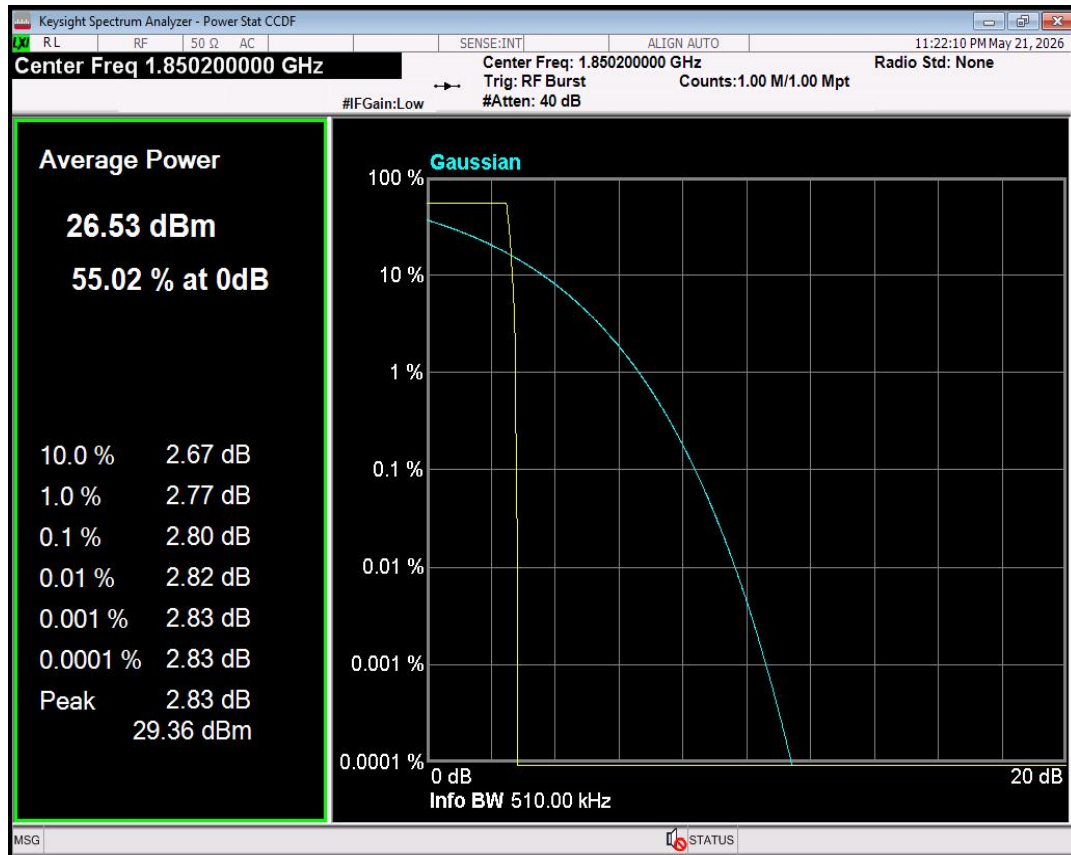
GSM850 Channel=128 NVNT



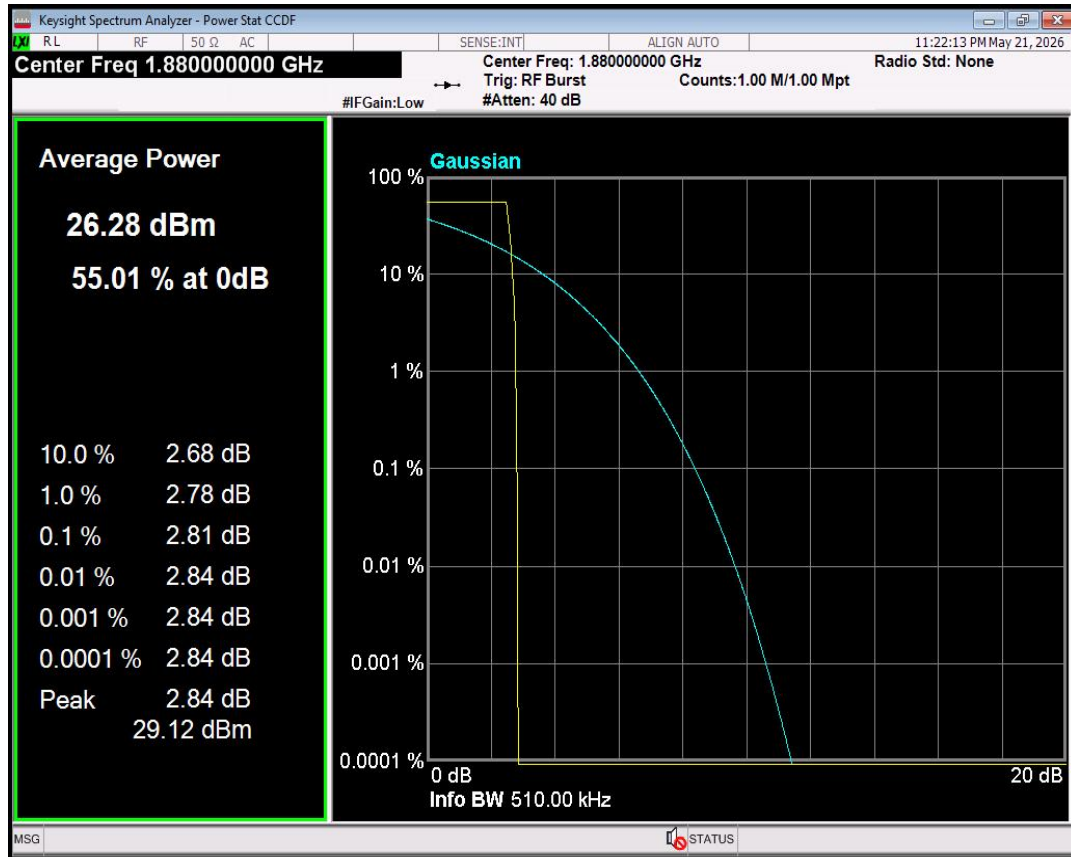
GSM850 Channel=190 NVNT



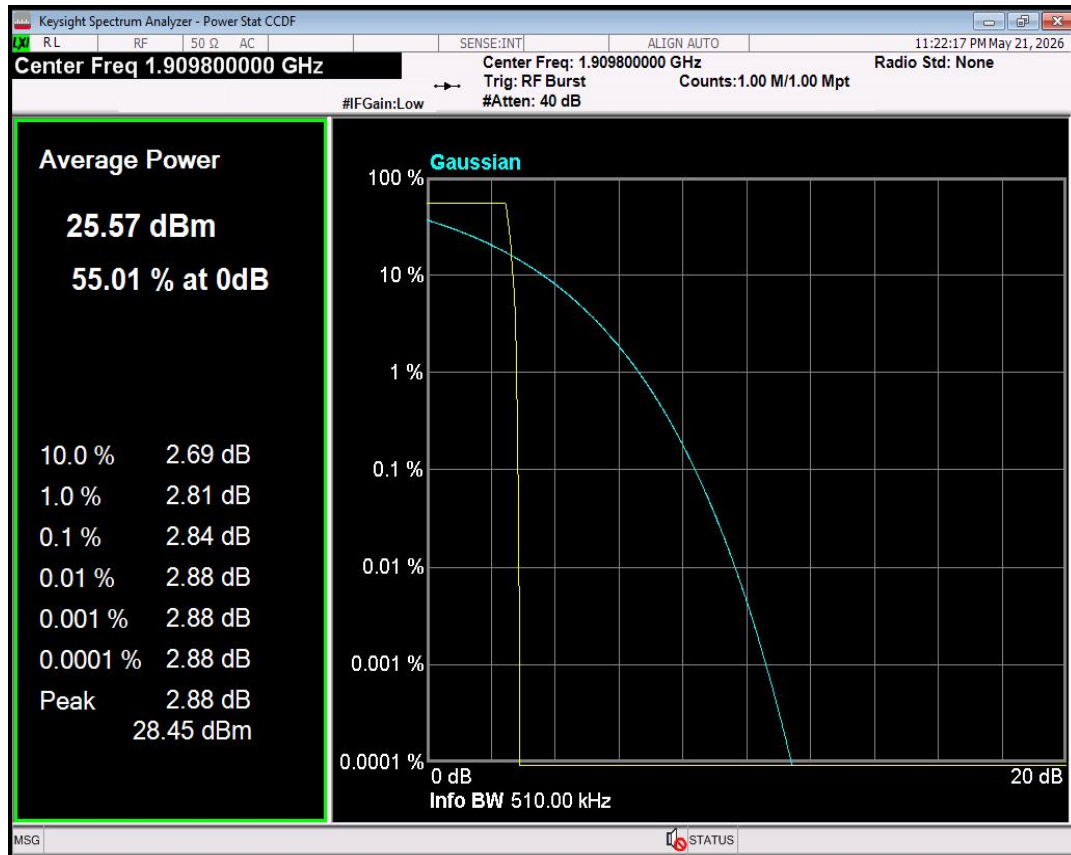
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



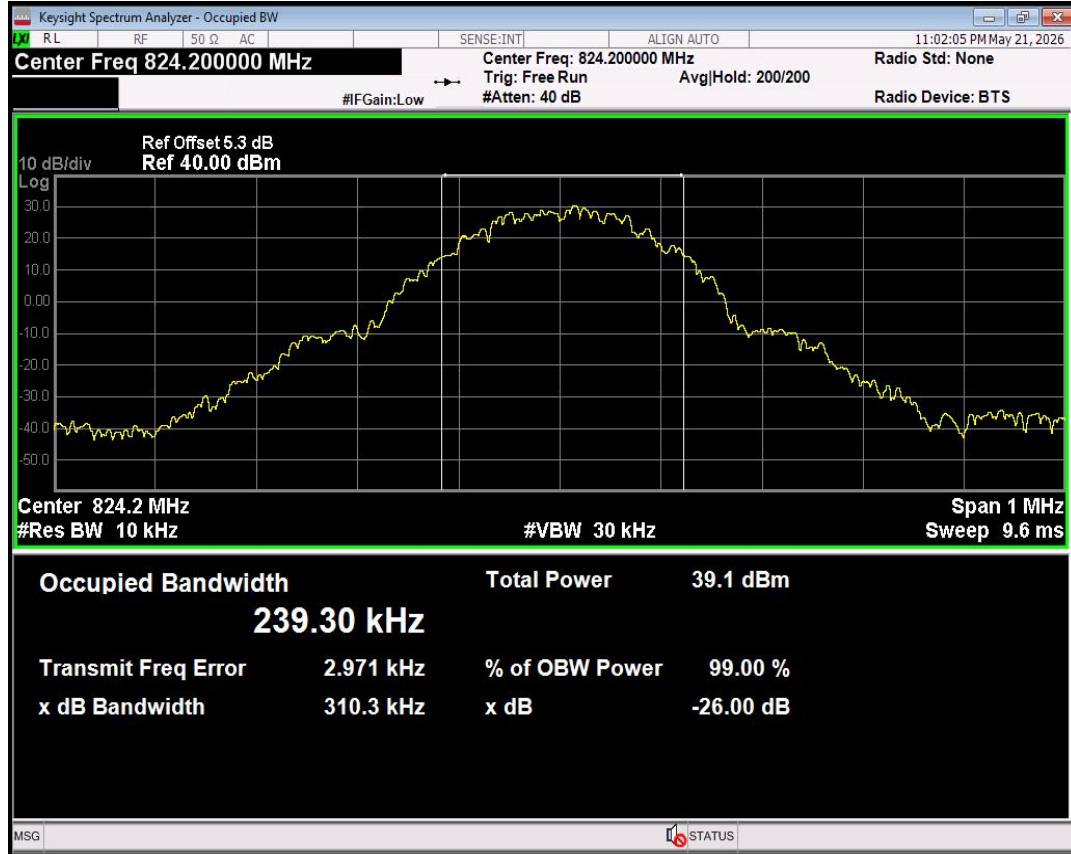
GSM1900 Channel=661 NVNT



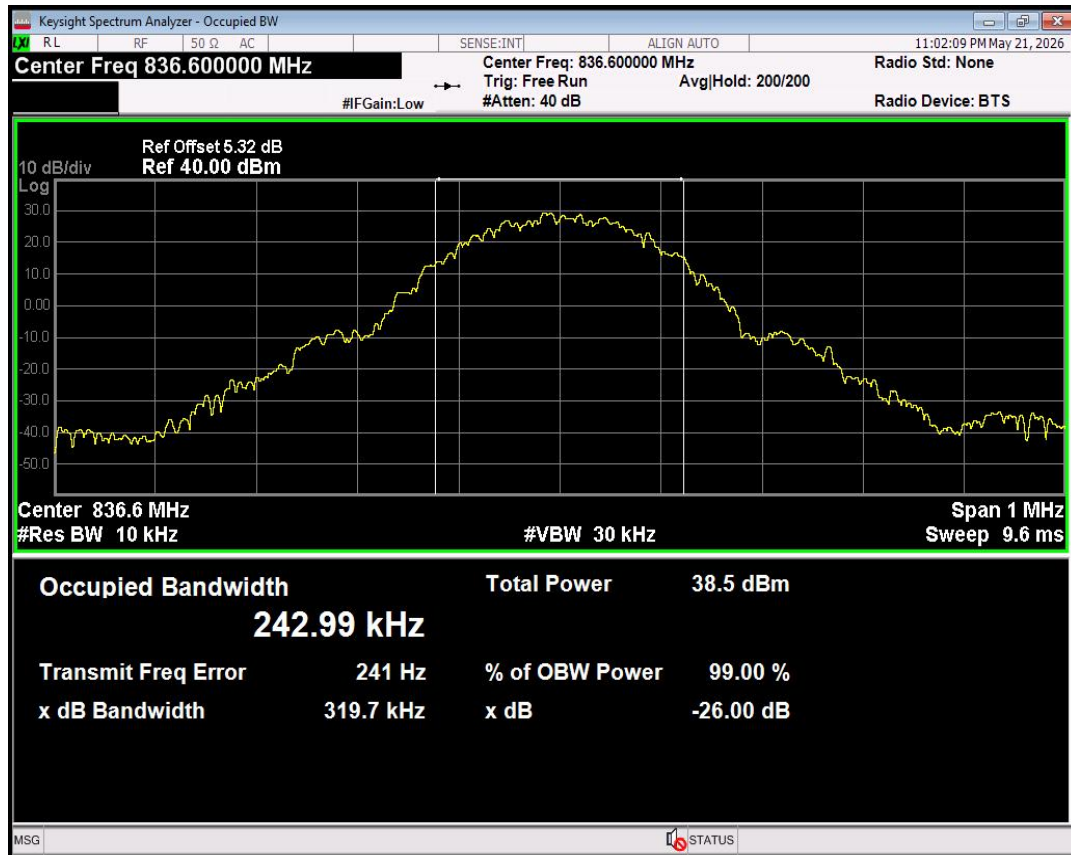
GSM1900 Channel=810 NVNT

04 Occupied bandwidth

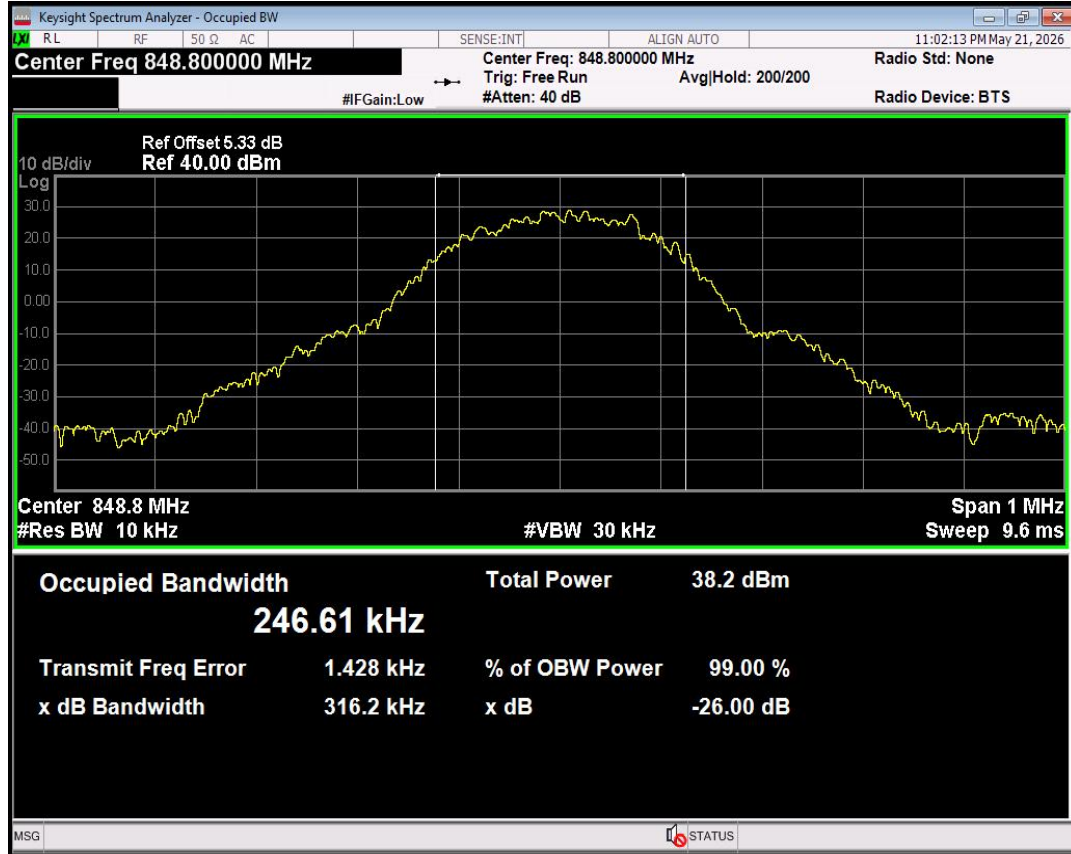
Condition	Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
NVNT	GSM850	128	824.2	239.304	310.259	PASS
NVNT	GSM850	190	836.6	242.989	319.725	PASS
NVNT	GSM850	251	848.8	246.609	316.176	PASS
NVNT	GSM1900	512	1850.2	245.398	317.384	PASS
NVNT	GSM1900	661	1880	248.339	316.874	PASS
NVNT	GSM1900	810	1909.8	245.466	324.648	PASS



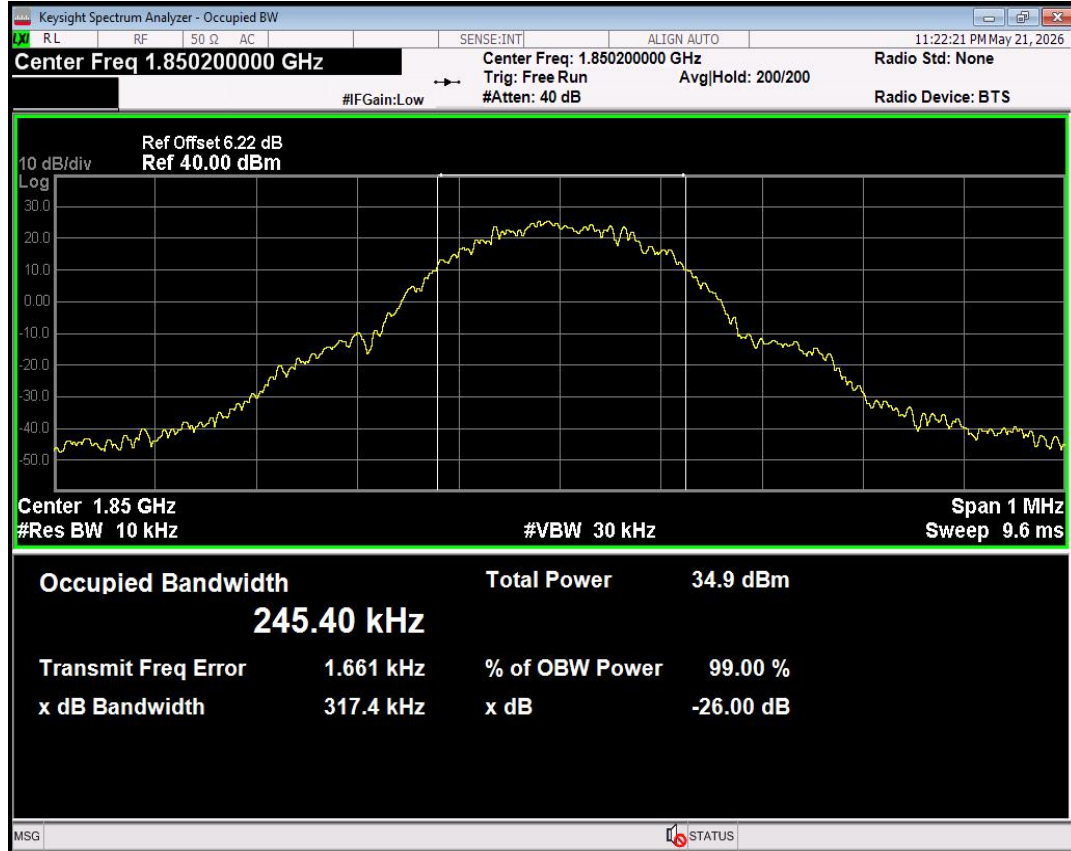
GSM850 Channel=128 NVNT



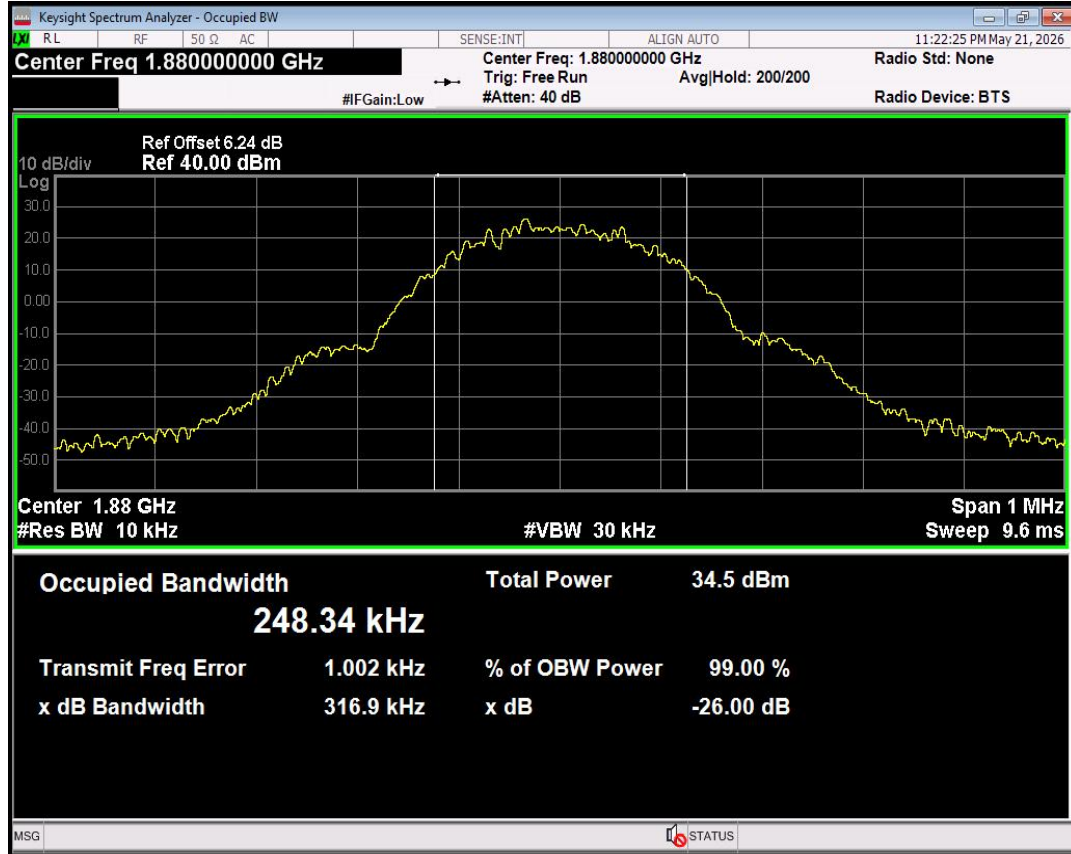
GSM850 Channel=190 NVNT



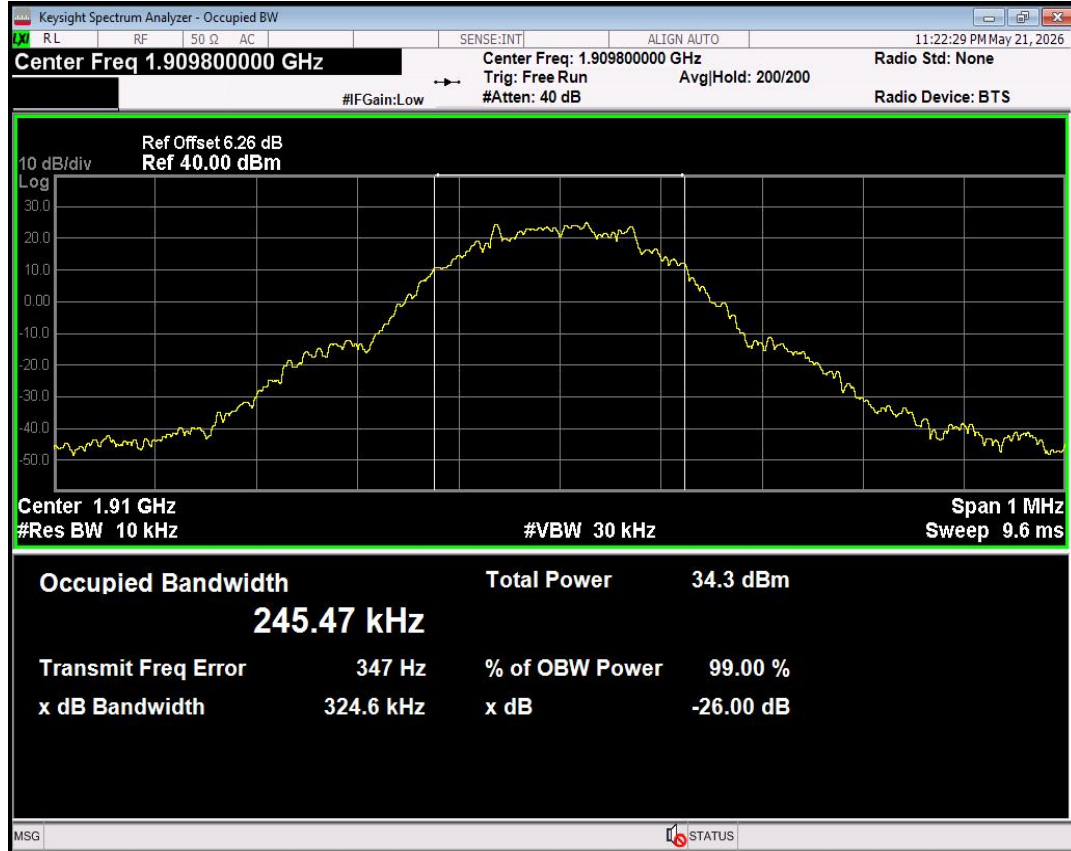
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



GSM1900 Channel=661 NVNT



GSM1900 Channel=810 NVNT

05 Band edge

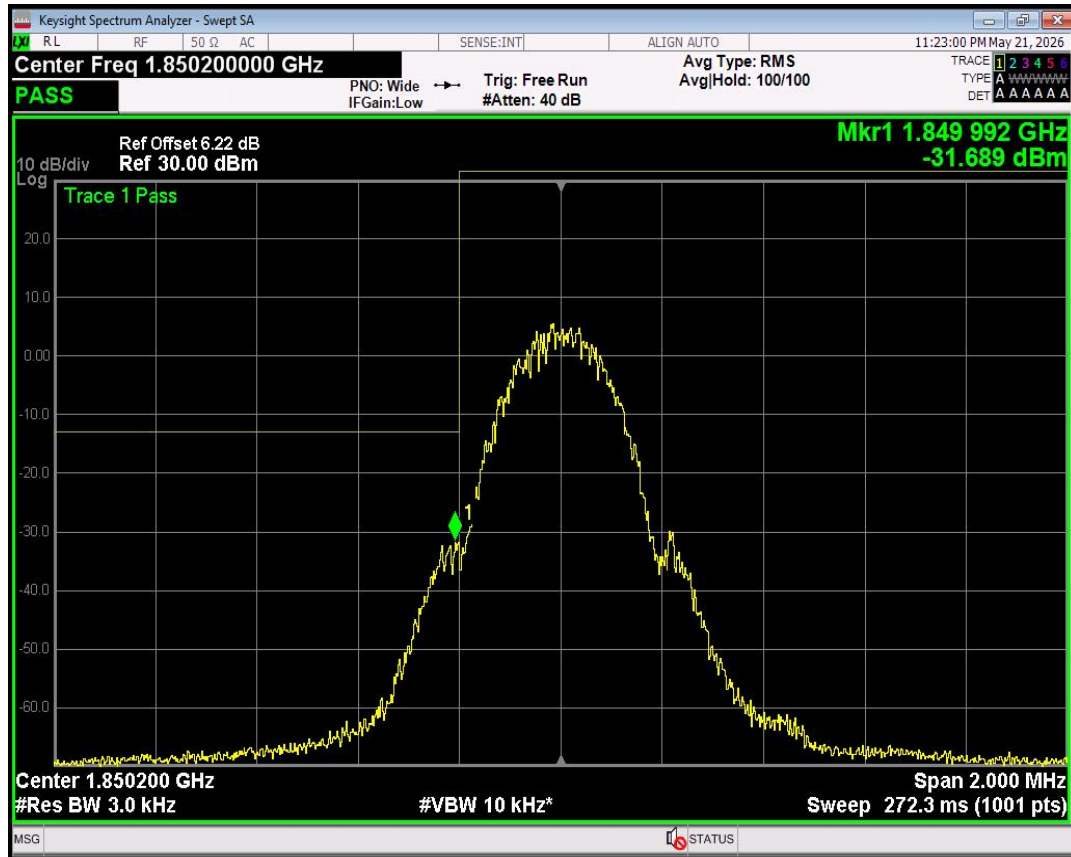
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
NVNT	GSM850	128	824.2	823.98	-26.99	-13	PASS
NVNT	GSM850	251	848.8	849.02	-26.52	-13	PASS
NVNT	GSM1900	512	1850.2	1849.99	-31.68	-13	PASS
NVNT	GSM1900	810	1909.8	1910.01	-32.04	-13	PASS



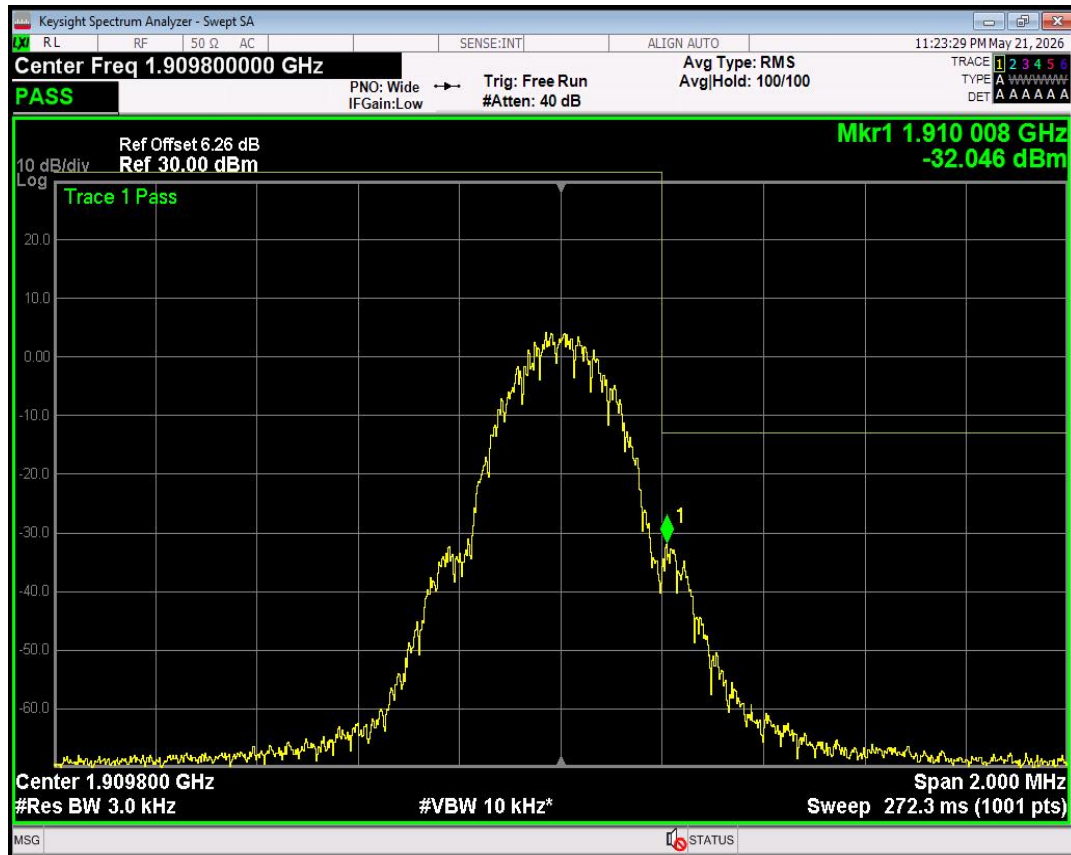
GSM850 Channel=128 NVNT



GSM850 Channel=251 NVNT



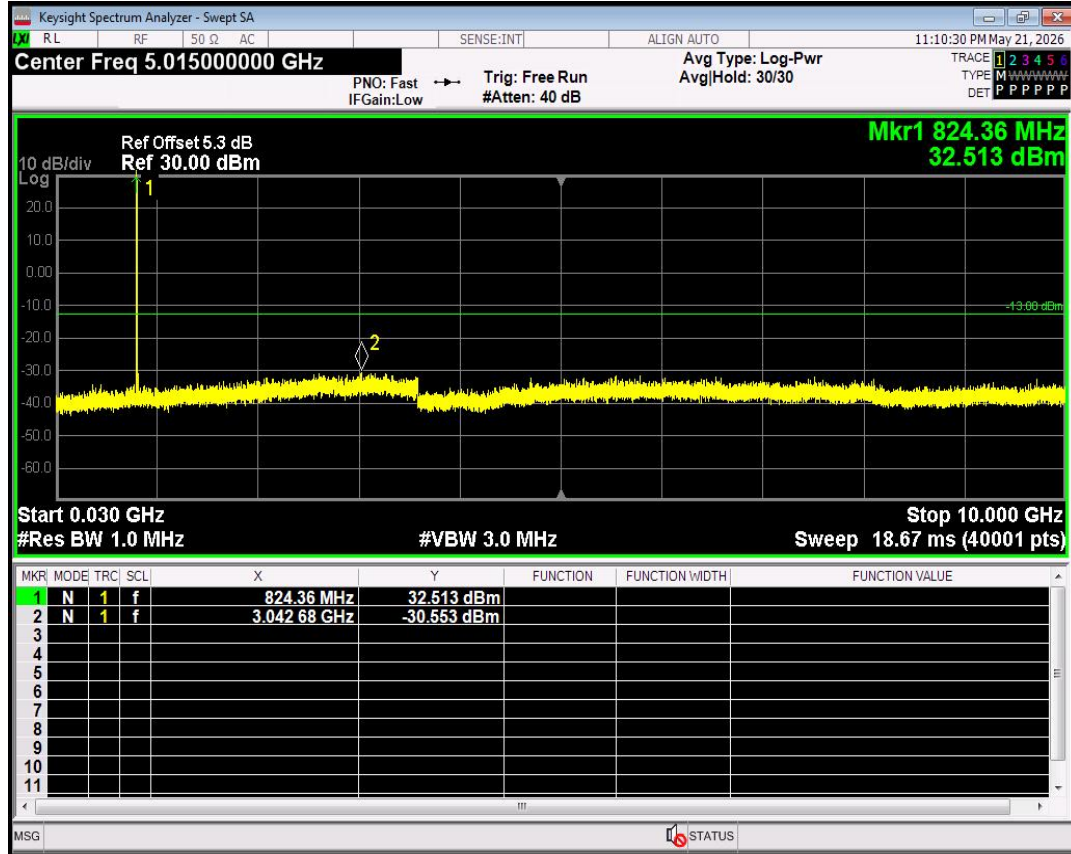
GSM1900 Channel=512 NVNT



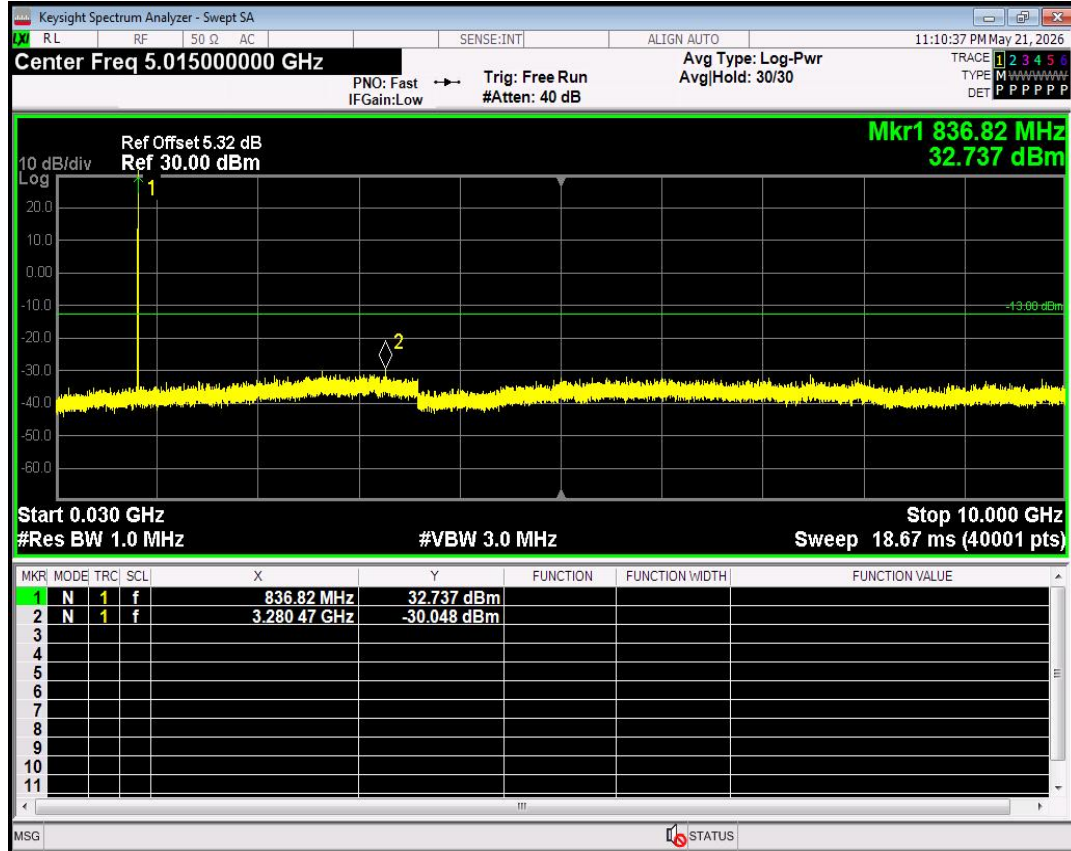
GSM1900 Channel=810 NVNT

06 Out-of-band emissions

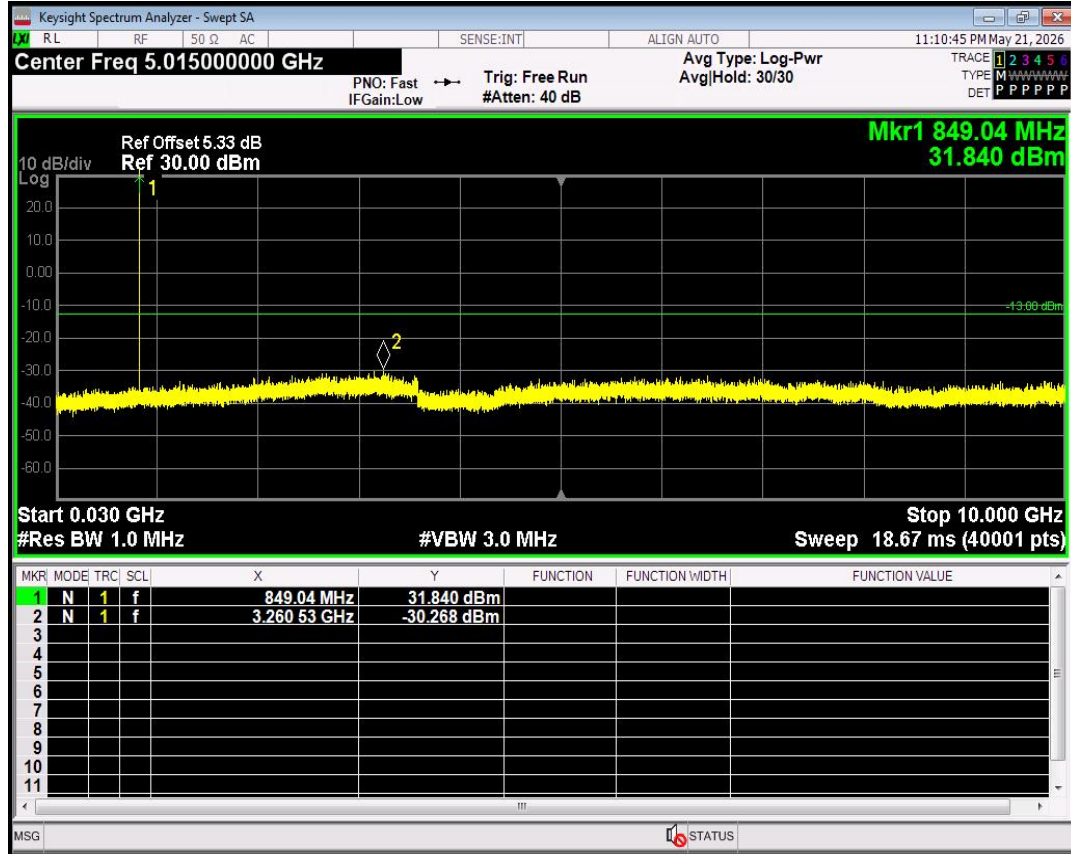
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
NVNT	GSM850	128	824.2	3042.68	-30.55	-13	PASS
NVNT	GSM850	190	836.6	3280.47	-30.04	-13	PASS
NVNT	GSM850	251	848.8	3260.53	-30.26	-13	PASS
NVNT	GSM1900	512	1850.2	16211.69	-27.25	-13	PASS
NVNT	GSM1900	661	1880	19060.91	-26.85	-13	PASS
NVNT	GSM1900	810	1909.8	19379.43	-26.86	-13	PASS



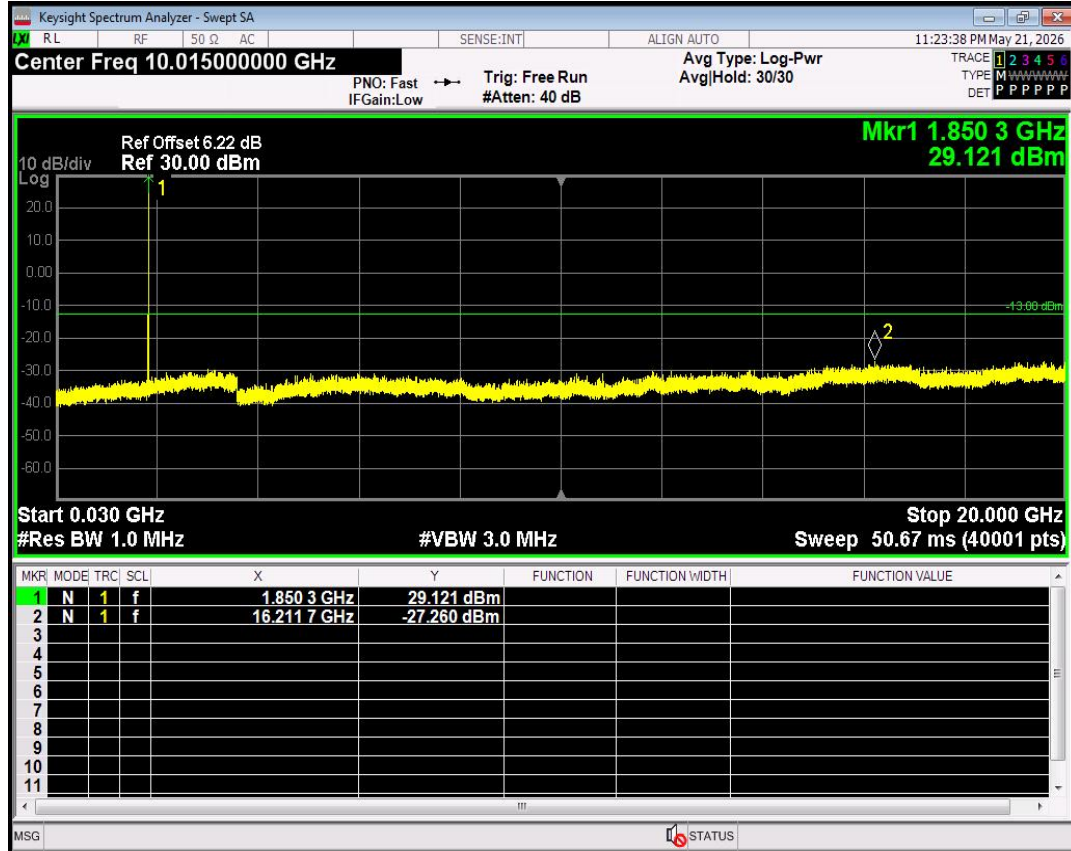
GSM850 Channel=128 NVNT



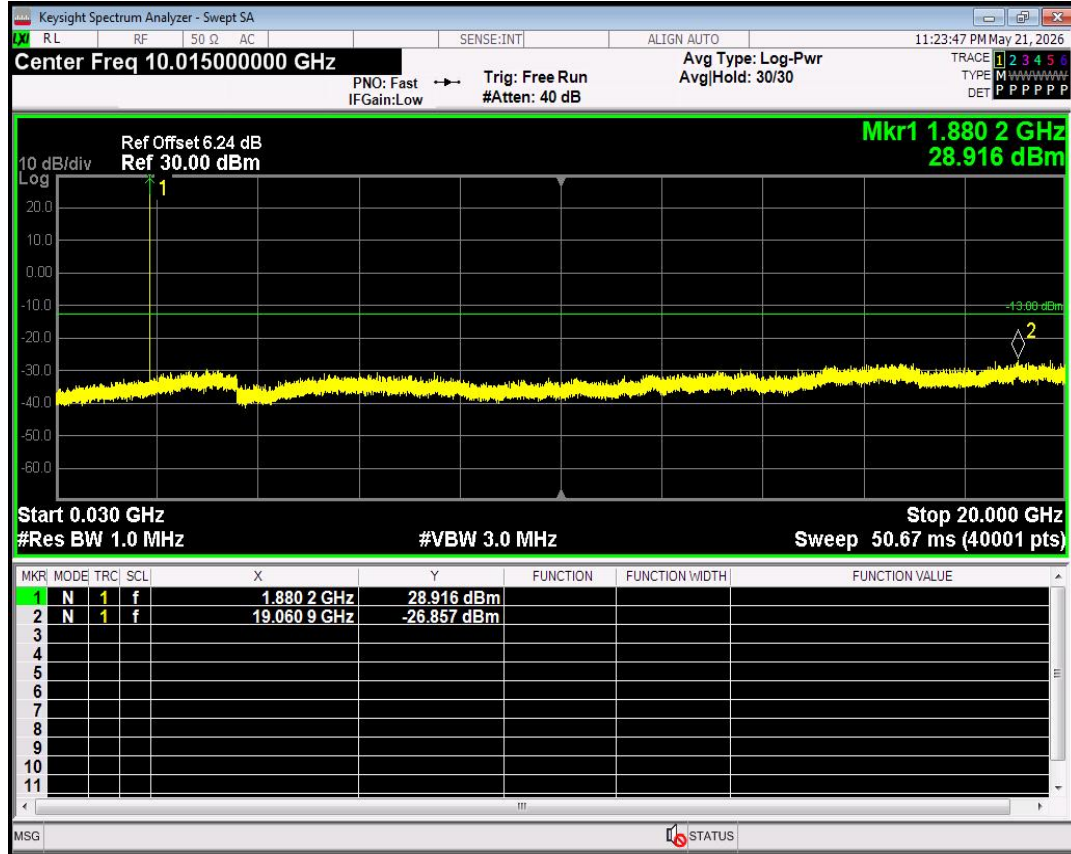
GSM850 Channel=190 NVNT



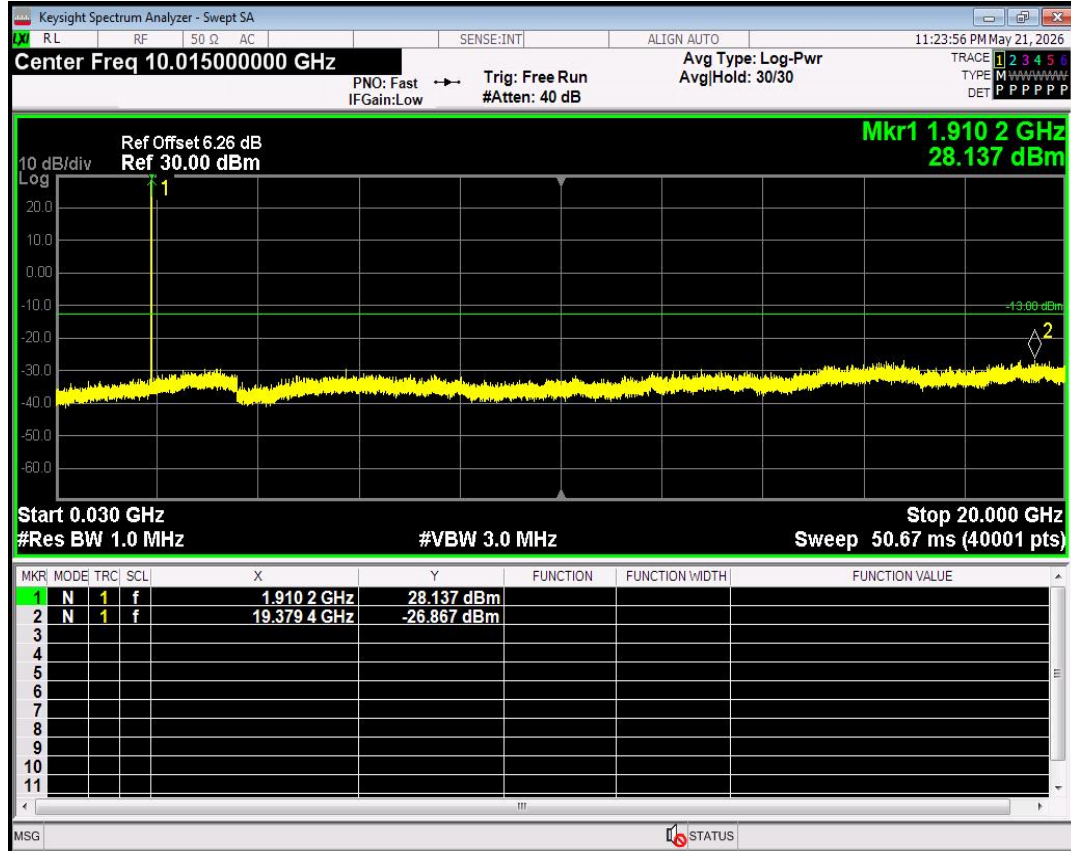
GSM850 Channel=251 NVNT



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	33.00601	0.8	31.65601	1464.2	7000	PASS
NVNT	GPRS850 1 Slot	190	836.6	32.97232	0.8	31.62232	1452.89	7000	PASS
NVNT	GPRS850 1 Slot	251	848.8	32.46219	0.8	31.11219	1291.87	7000	PASS
NVNT	GPRS850 2 Slot	128	824.2	32.08246	0.8	30.73246	1183.71	7000	PASS
NVNT	GPRS850 2 Slot	190	836.6	32.01978	0.8	30.66978	1166.75	7000	PASS
NVNT	GPRS850 2 Slot	251	848.8	31.45859	0.8	30.10859	1025.32	7000	PASS
NVNT	GPRS850 3 Slot	128	824.2	30.09164	0.8	28.74164	748.45	7000	PASS
NVNT	GPRS850 3 Slot	190	836.6	30.01001	0.8	28.66001	734.52	7000	PASS
NVNT	GPRS850 3 Slot	251	848.8	29.51401	0.8	28.16401	655.24	7000	PASS
NVNT	GPRS850 4 Slot	128	824.2	28.7211	0.8	27.3711	545.9	7000	PASS
NVNT	GPRS850 4 Slot	190	836.6	28.84314	0.8	27.49314	561.45	7000	PASS
NVNT	GPRS850 4 Slot	251	848.8	28.0939	0.8	26.7439	472.49	7000	PASS

07 Conducted output power (EIRP)

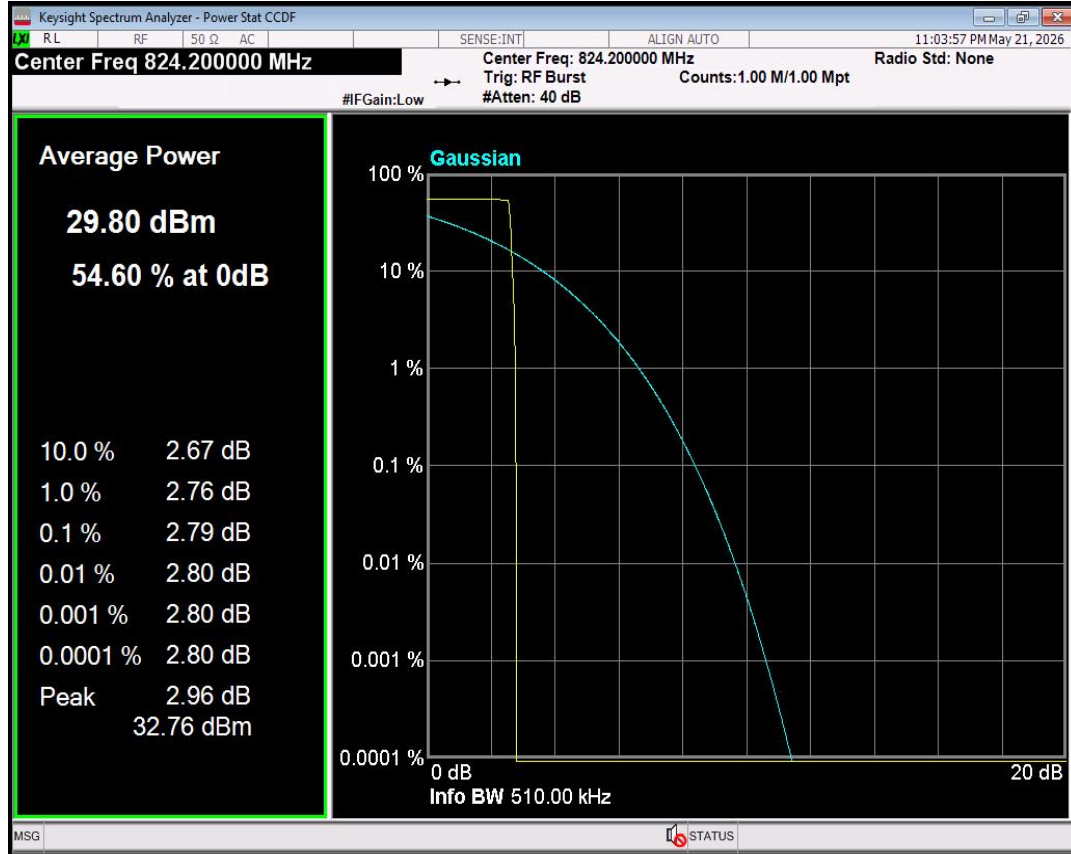
Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	EIRP Limit (mW)	Verdict
NVNT	GPRS1900 1 Slot	512	1850.2	29.33105	1.3	30.63105	1156.39	2000	PASS
NVNT	GPRS1900 1 Slot	661	1880	28.82568	1.3	30.12568	1029.36	2000	PASS
NVNT	GPRS1900 1 Slot	810	1909.8	28.77466	1.3	30.07466	1017.34	2000	PASS
NVNT	GPRS1900 2 Slot	512	1850.2	28.3649	1.3	29.6649	925.74	2000	PASS
NVNT	GPRS1900 2 Slot	661	1880	27.83252	1.3	29.13252	818.94	2000	PASS
NVNT	GPRS1900 2 Slot	810	1909.8	27.73166	1.3	29.03166	800.14	2000	PASS
NVNT	GPRS1900 3 Slot	512	1850.2	26.46701	1.3	27.76701	598	2000	PASS
NVNT	GPRS1900 3 Slot	661	1880	25.80896	1.3	27.10896	513.92	2000	PASS
NVNT	GPRS1900 3 Slot	810	1909.8	25.67374	1.3	26.97374	498.17	2000	PASS
NVNT	GPRS1900 4 Slot	512	1850.2	25.15732	1.3	26.45732	442.32	2000	PASS
NVNT	GPRS1900 4 Slot	661	1880	24.47552	1.3	25.77552	378.05	2000	PASS
NVNT	GPRS1900 4 Slot	810	1909.8	24.4552	1.3	25.7552	376.29	2000	PASS

08 Frequency stability

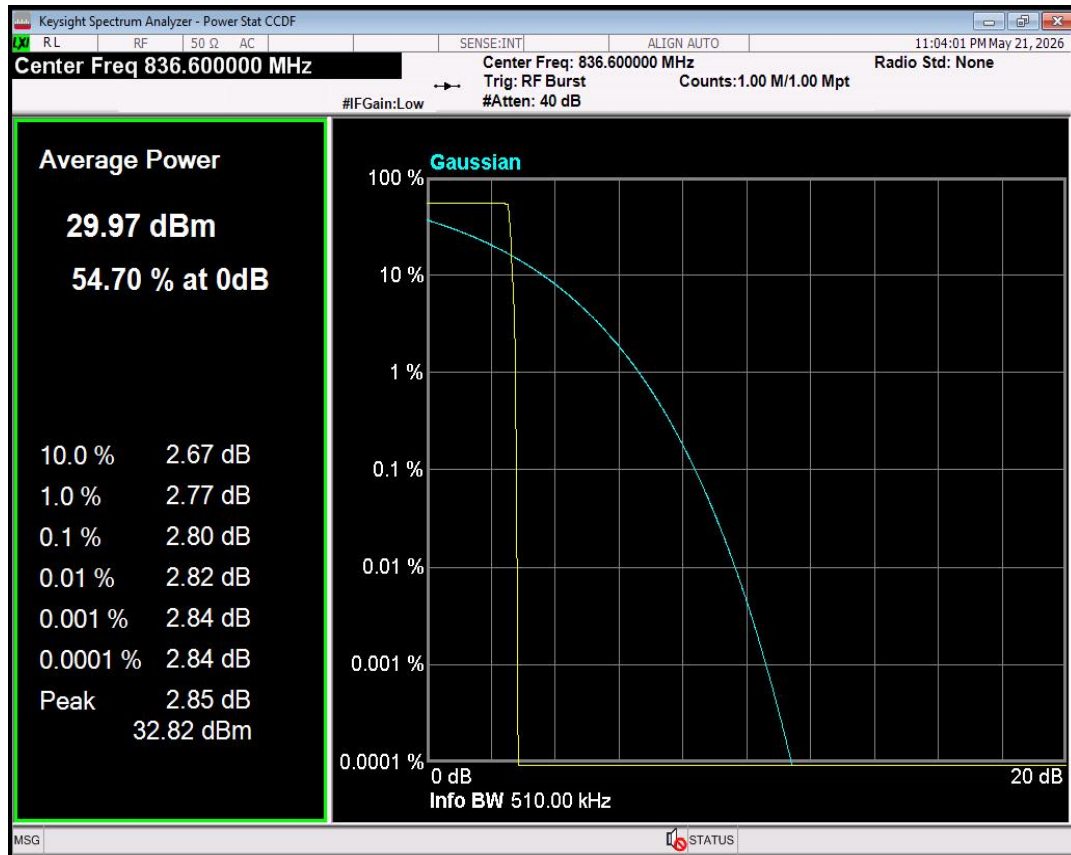
Condition	Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
NVNT	GPRS850	128	824.2	-21.79295	-0.03	-2.500	2.5	PASS
NVNT	GPRS850	190	836.6	-12.10719	-0.01	-2.500	2.5	PASS
NVNT	GPRS850	251	848.8	2.453725	0.00	-2.500	2.5	PASS
NVNT	GPRS1900	512	1850.2	76.06546	0.04	-2.500	2.5	PASS
NVNT	GPRS1900	661	1880	87.10722	0.05	-2.500	2.5	PASS
NVNT	GPRS1900	810	1909.8	98.37498	0.05	-2.500	2.5	PASS
LVLT	GPRS850	128	824.2	12.97891	0.02	-2.500	2.5	PASS
LVLT	GPRS850	190	836.6	17.62807	0.02	-2.500	2.5	PASS
LVLT	GPRS850	251	848.8	14.49635	0.02	-2.500	2.5	PASS
LVLT	GPRS1900	512	1850.2	102.8627	0.06	-2.500	2.5	PASS
LVLT	GPRS1900	661	1880	999	0.53	-2.500	2.5	PASS
LVLT	GPRS1900	810	1909.8	106.1882	0.06	-2.500	2.5	PASS
LVHT	GPRS850	128	824.2	16.01378	0.02	-2.500	2.5	PASS
LVHT	GPRS850	190	836.6	14.17349	0.02	-2.500	2.5	PASS
LVHT	GPRS850	251	848.8	17.1115	0.02	-2.500	2.5	PASS
LVHT	GPRS1900	512	1850.2	102.669	0.06	-2.500	2.5	PASS
LVHT	GPRS1900	661	1880	101.1516	0.05	-2.500	2.5	PASS
LVHT	GPRS1900	810	1909.8	104.3479	0.05	-2.500	2.5	PASS
HVLT	GPRS850	128	824.2	12.13948	0.01	-2.500	2.5	PASS
HVLT	GPRS850	190	836.6	11.62291	0.01	-2.500	2.5	PASS
HVLT	GPRS850	251	848.8	12.13948	0.01	-2.500	2.5	PASS
HVLT	GPRS1900	512	1850.2	102.2493	0.06	-2.500	2.5	PASS
HVLT	GPRS1900	661	1880	103.0241	0.05	-2.500	2.5	PASS
HVLT	GPRS1900	810	1909.8	107.1244	0.06	-2.500	2.5	PASS
HVHT	GPRS850	128	824.2	9.847184	0.01	-2.500	2.5	PASS
HVHT	GPRS850	190	836.6	6.650885	0.01	-2.500	2.5	PASS
HVHT	GPRS850	251	848.8	13.62463	0.02	-2.500	2.5	PASS
HVHT	GPRS1900	512	1850.2	96.47012	0.05	-2.500	2.5	PASS
HVHT	GPRS1900	661	1880	102.1524	0.05	-2.500	2.5	PASS
HVHT	GPRS1900	810	1909.8	110.5145	0.06	-2.500	2.5	PASS

09 Peak-to-Average Ratio

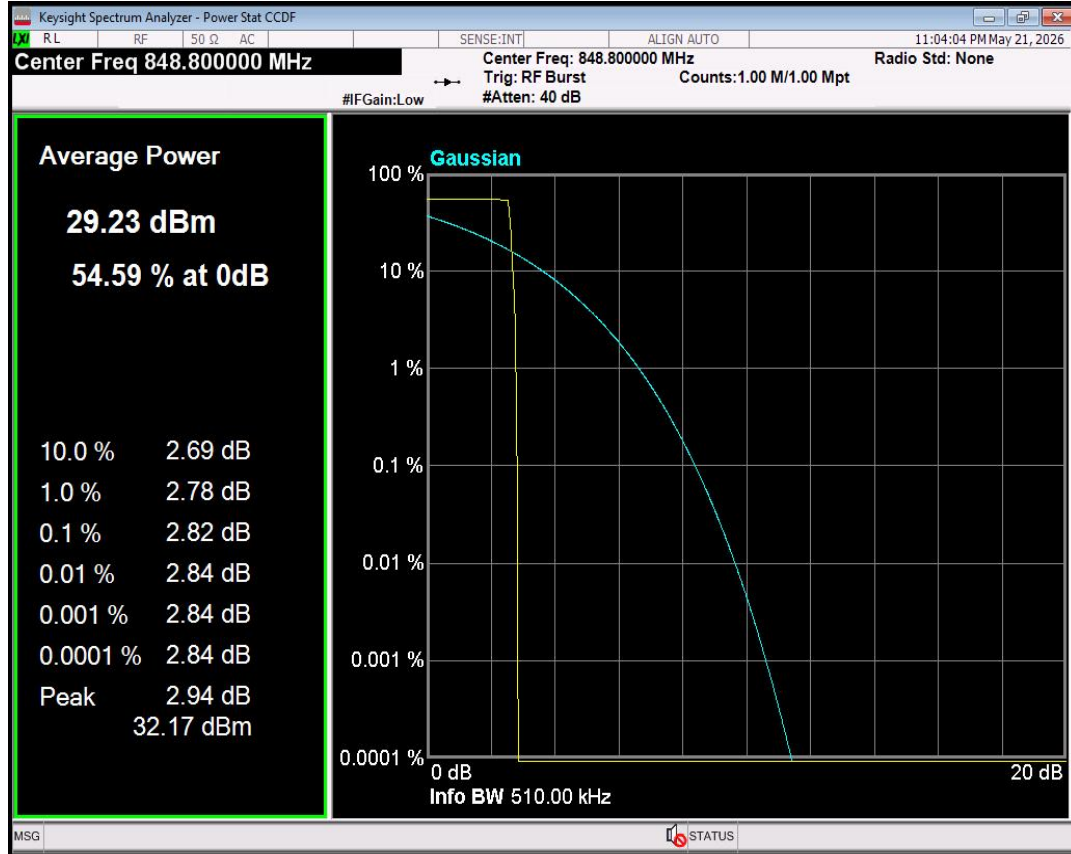
Condition	Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
NVNT	GPRS850	128	824.2	2.786957364	13.00	PASS
NVNT	GPRS850	190	836.6	2.798885097	13.00	PASS
NVNT	GPRS850	251	848.8	2.818702461	13.00	PASS
NVNT	GPRS1900	512	1850.2	2.842880845	13.00	PASS
NVNT	GPRS1900	661	1880	2.852327485	13.00	PASS
NVNT	GPRS1900	810	1909.8	2.889214559	13.00	PASS



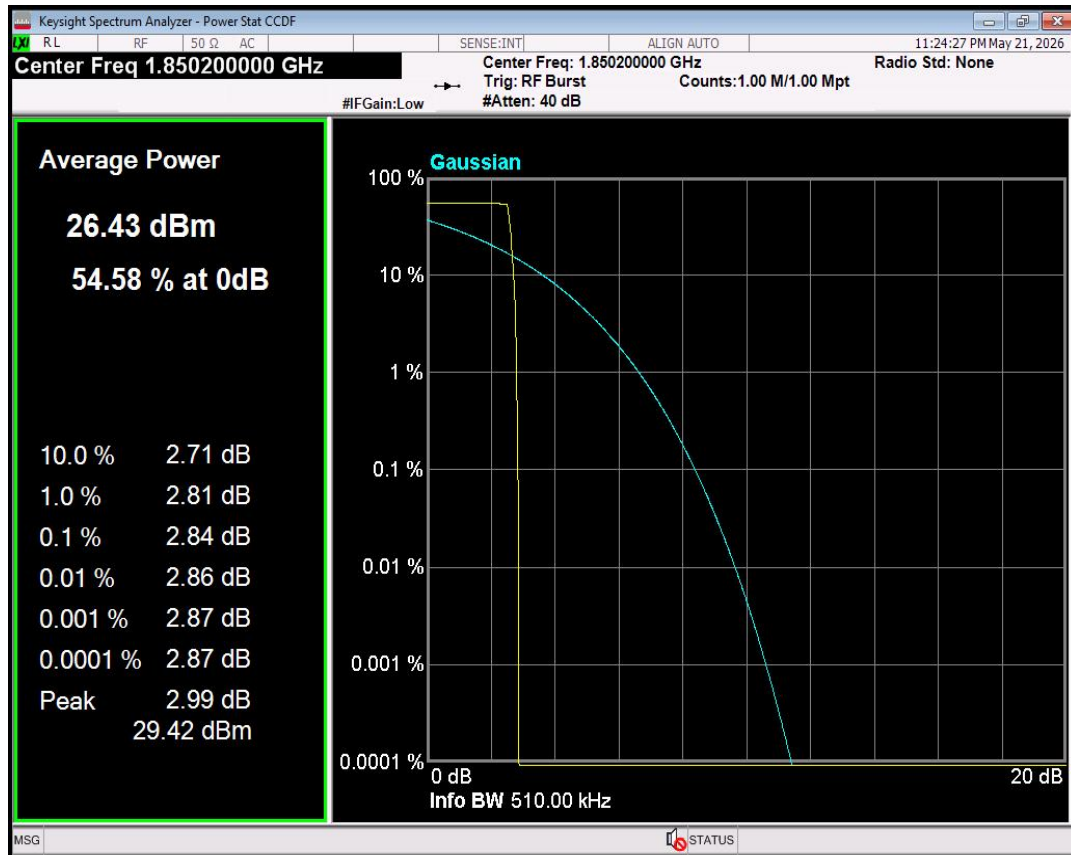
GPRS850 Channel=128 NVNT



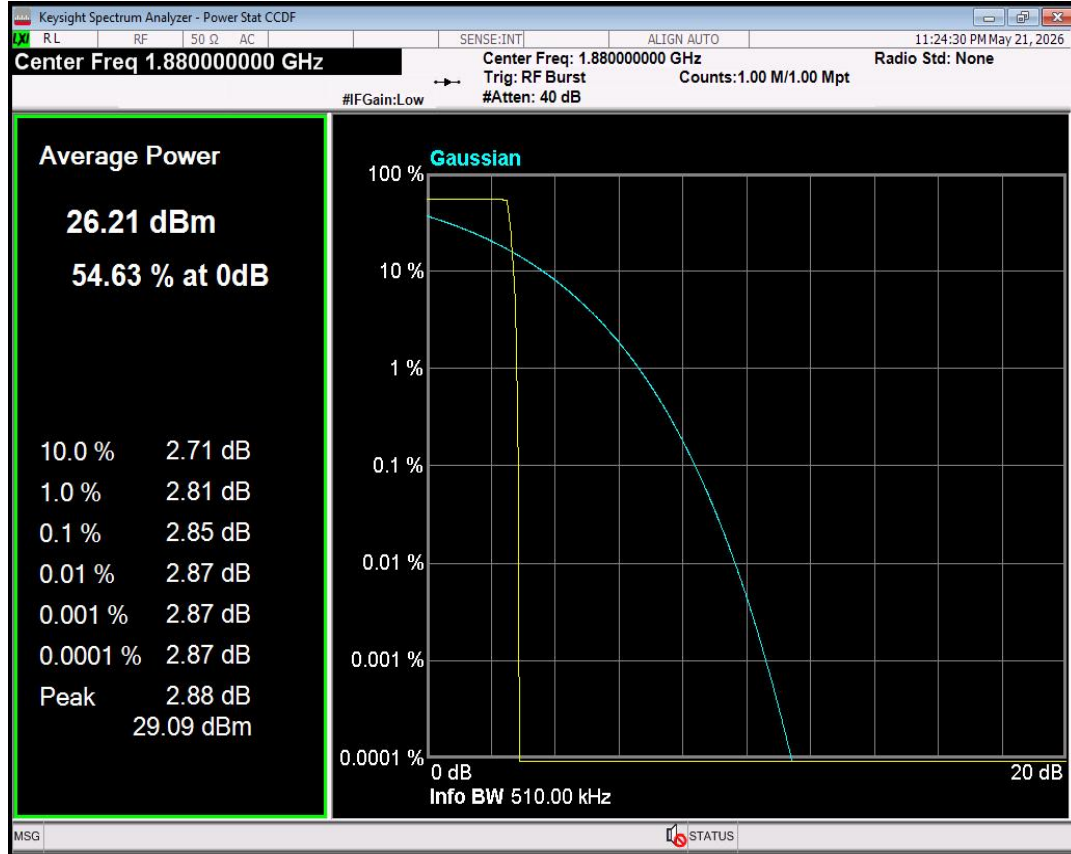
GPRS850 Channel=190 NVNT



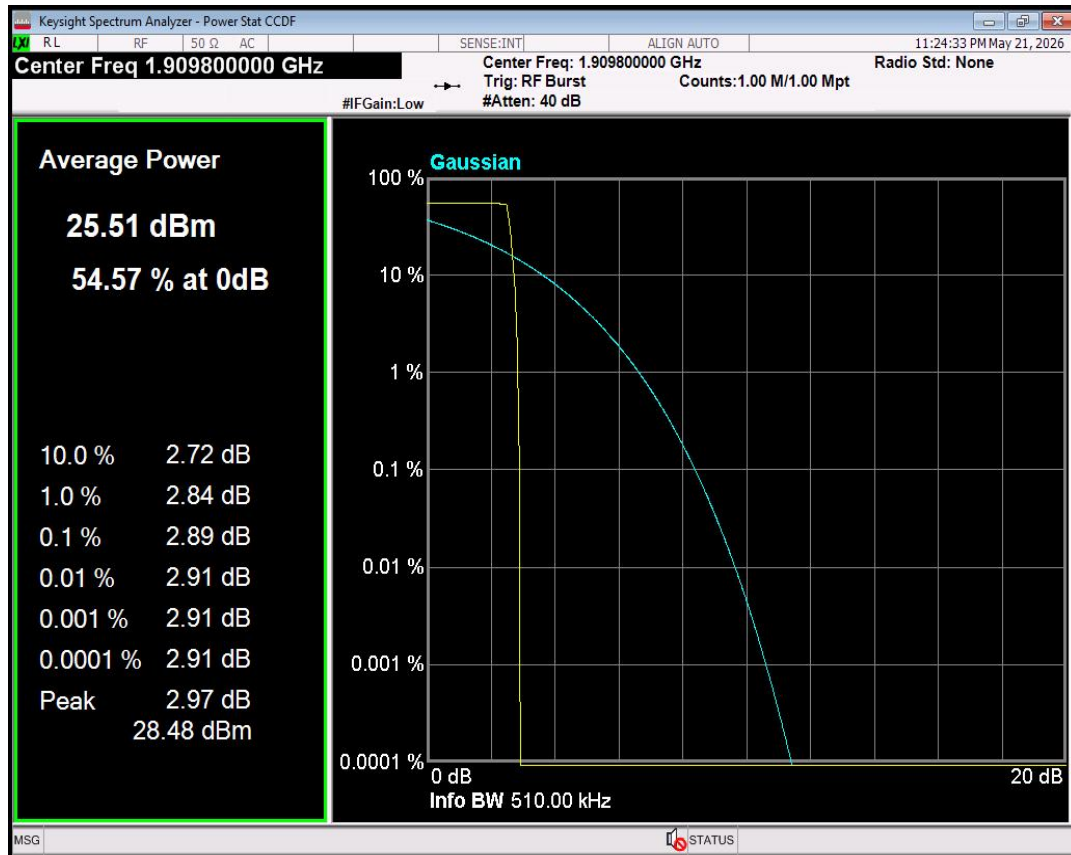
GPRS850 Channel=251 NVNT



GPRS1900 Channel=512 NVNT



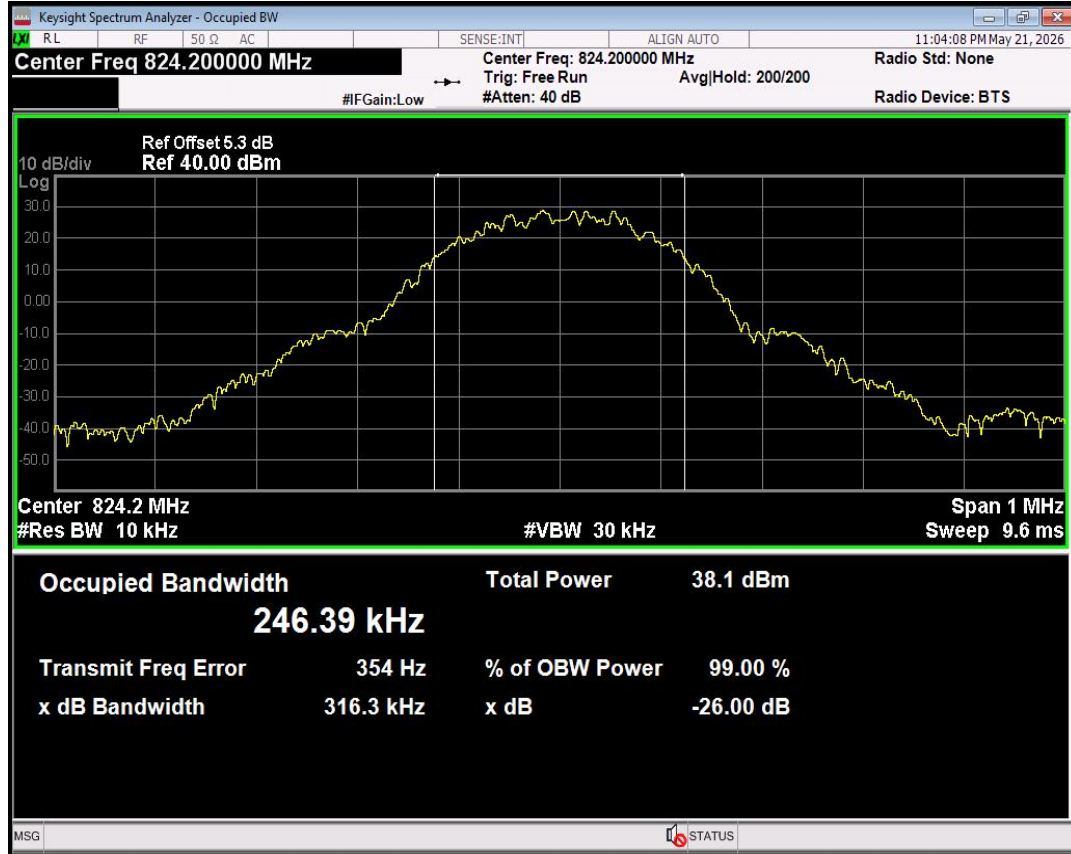
GPRS1900 Channel=661 NVNT



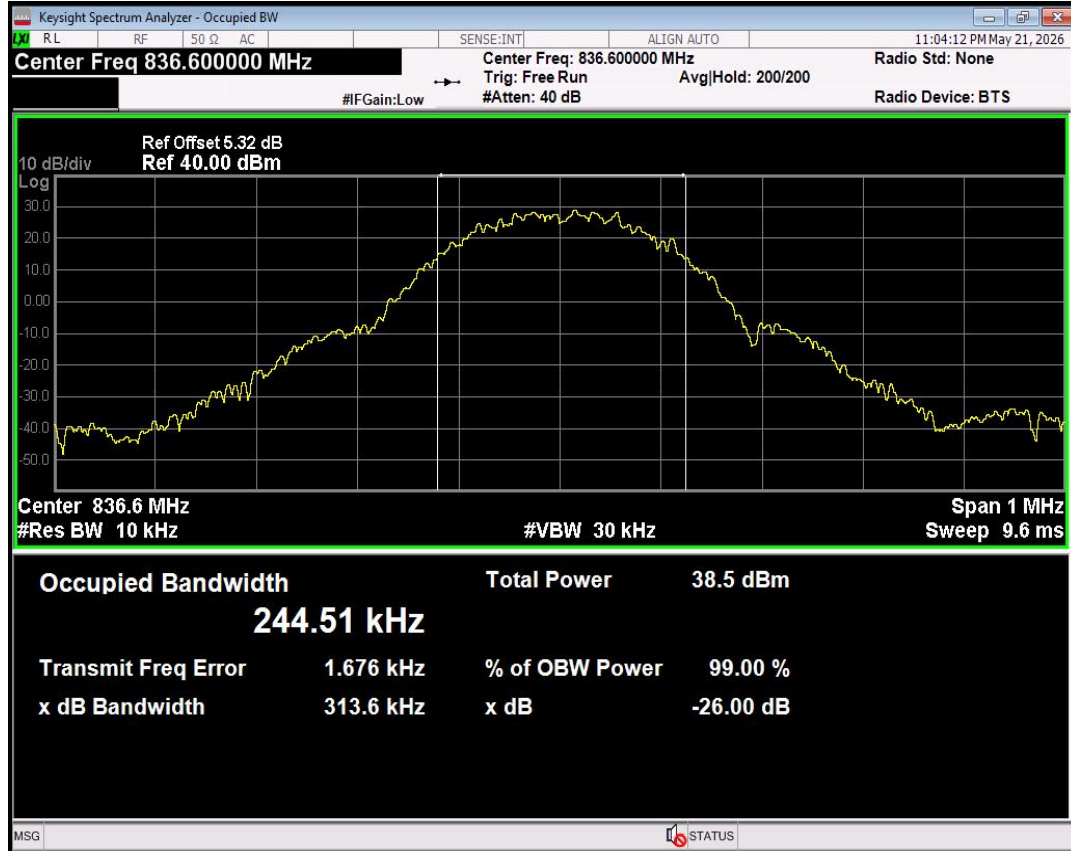
GPRS1900 Channel=810 NVNT

10 Occupied bandwidth

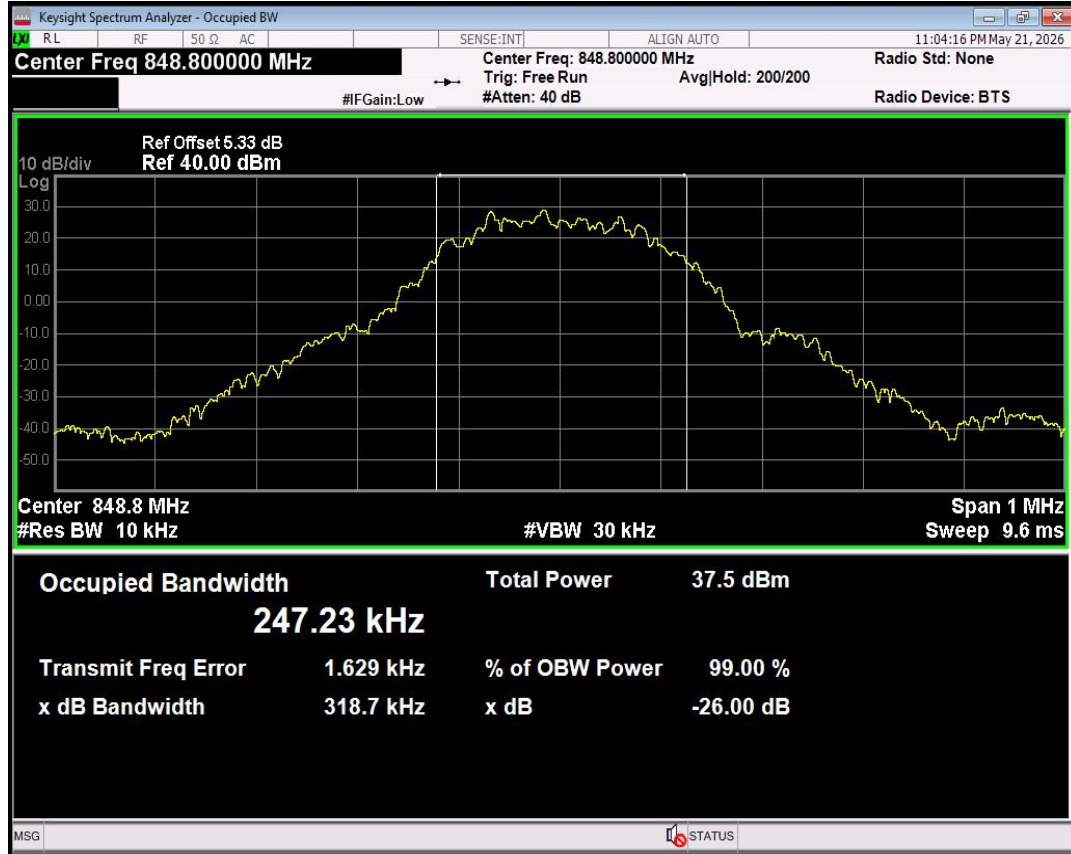
Condition	Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
NVNT	GPRS850	128	824.2	246.386	316.328	PASS
NVNT	GPRS850	190	836.6	244.515	313.626	PASS
NVNT	GPRS850	251	848.8	247.234	318.710	PASS
NVNT	GPRS1900	512	1850.2	246.833	316.624	PASS
NVNT	GPRS1900	661	1880	244.270	315.754	PASS
NVNT	GPRS1900	810	1909.8	244.443	319.540	PASS



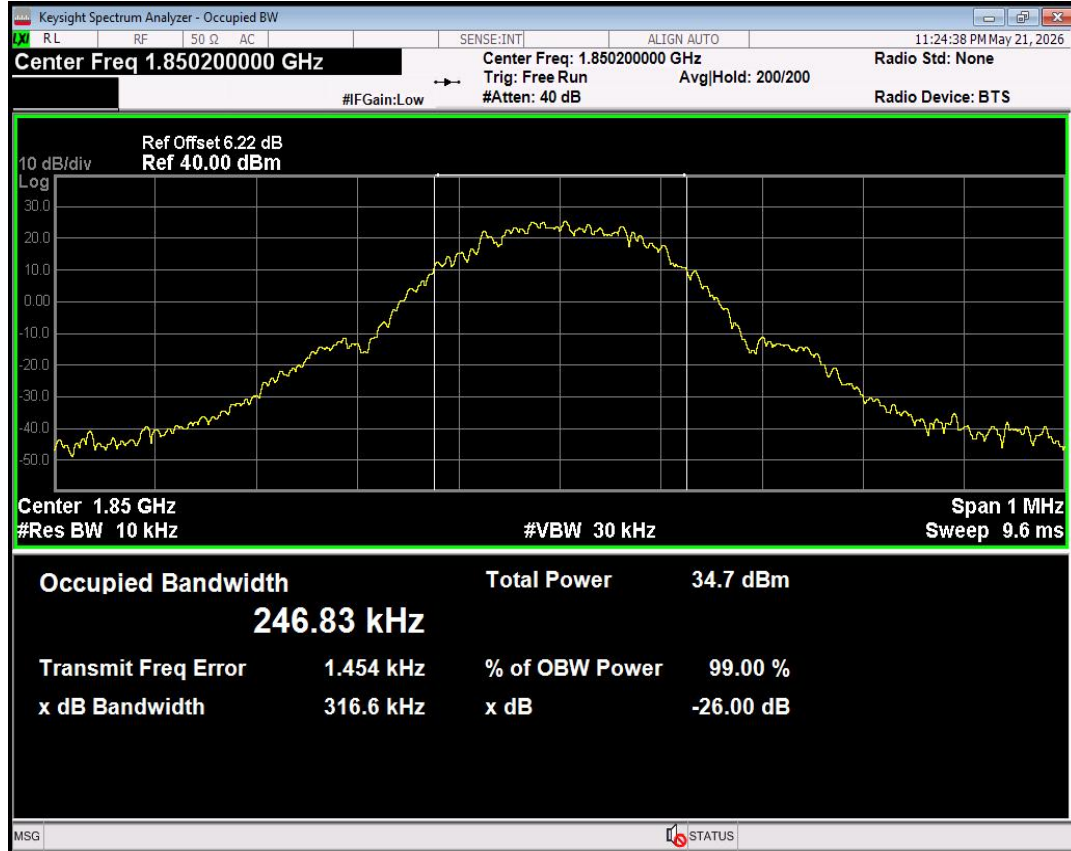
GPRS850 Channel=128 NVNT



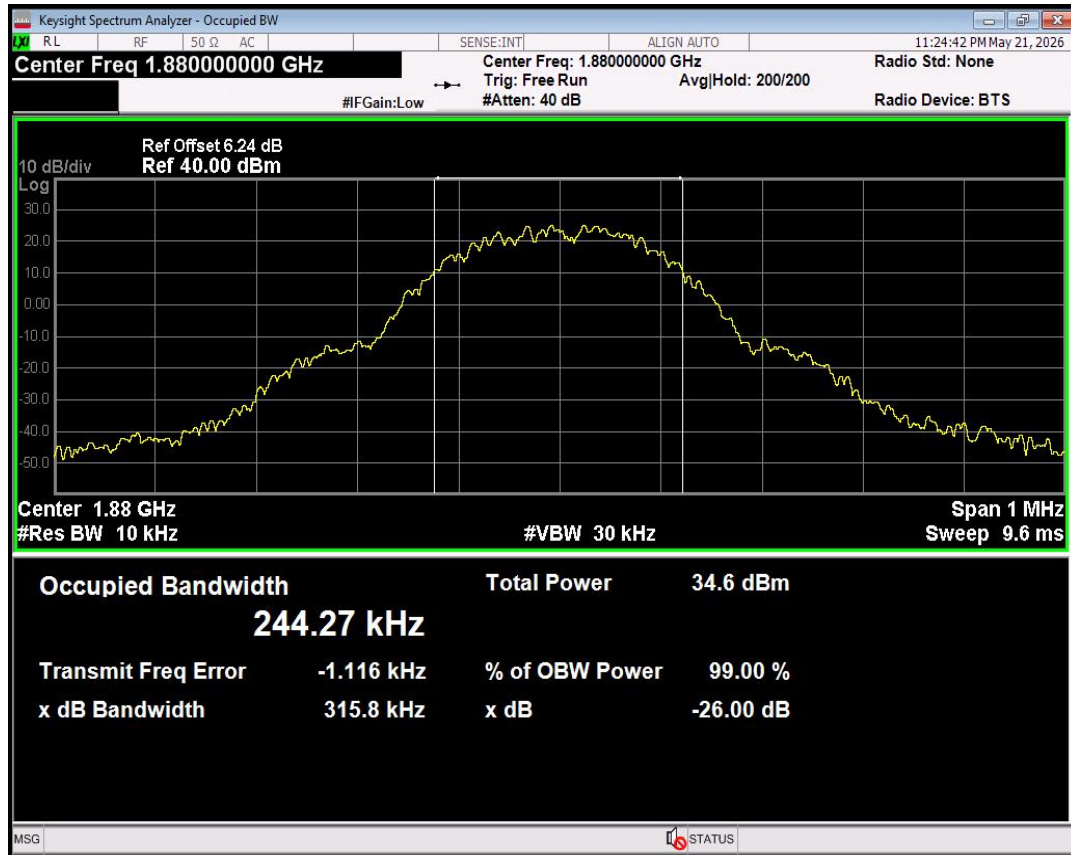
GPRS850 Channel=190 NVNT



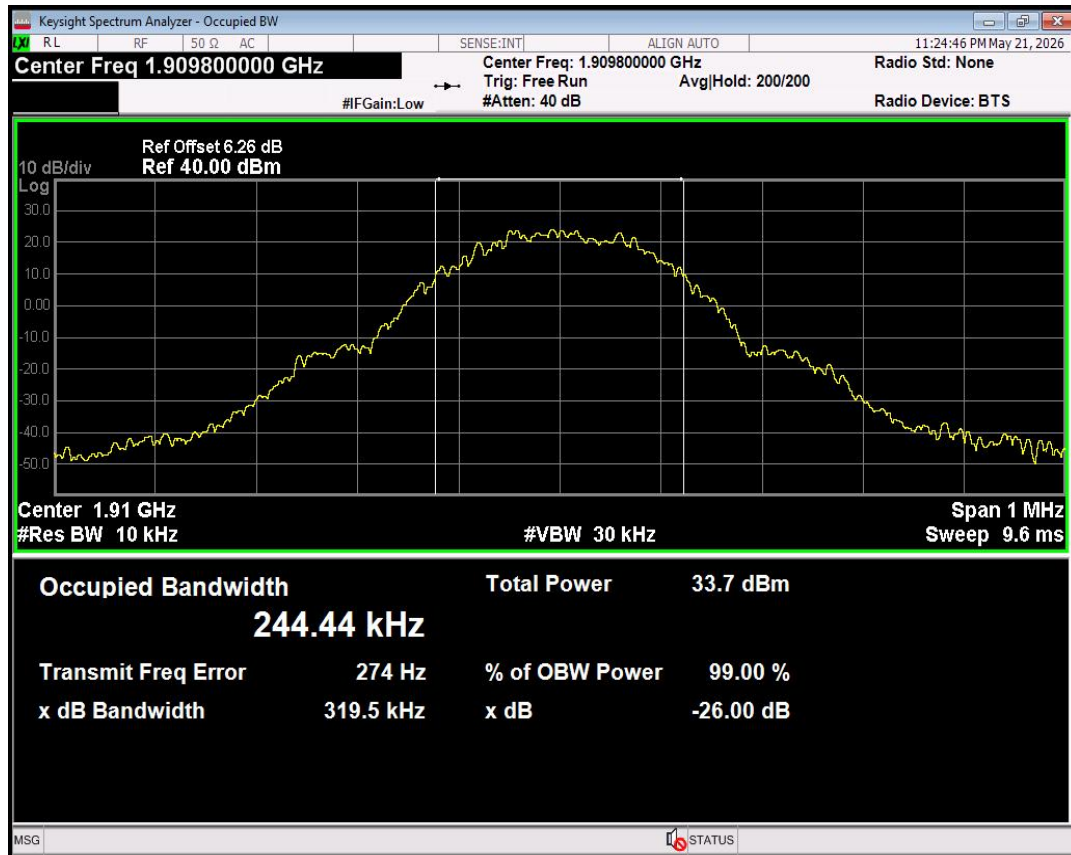
GPRS850 Channel=251 NVNT



GPRS1900 Channel=512 NVNT



GPRS1900 Channel=661 NVNT



GPRS1900 Channel=810 NVNT

11 Band edge

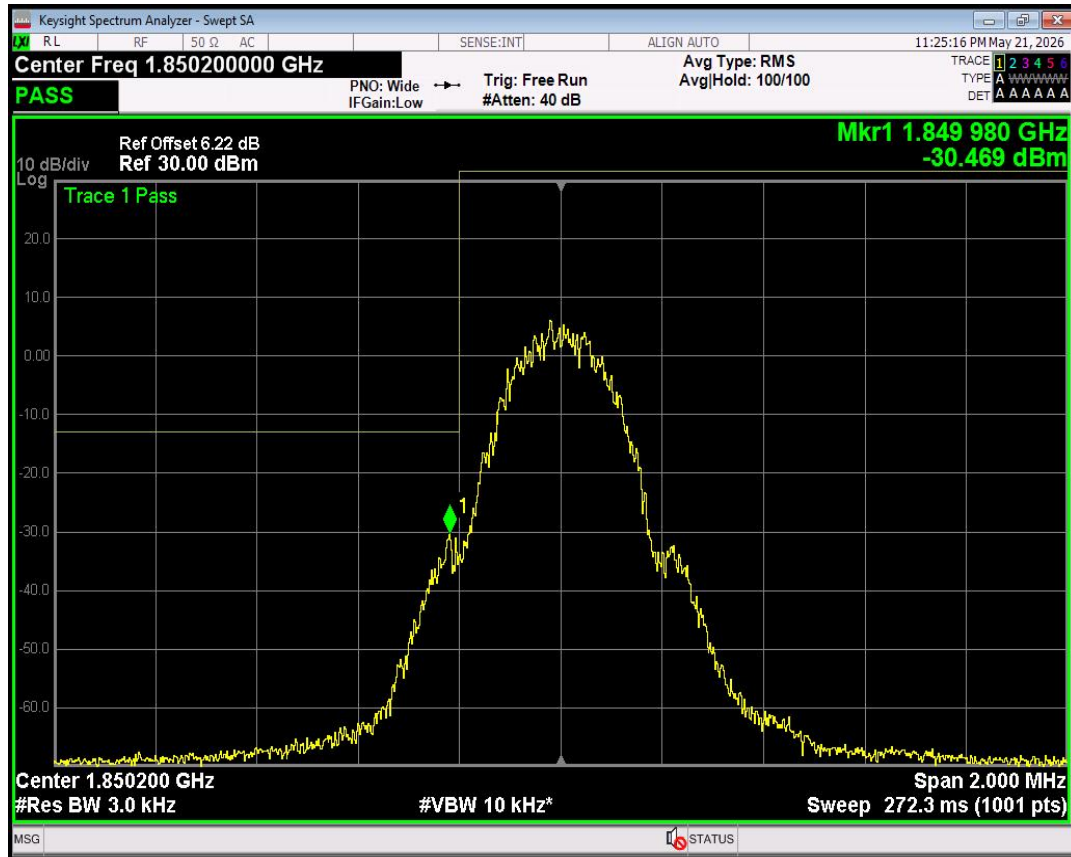
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
NVNT	GPRS850	128	824.2	823.98	-27.37	-13	PASS
NVNT	GPRS850	251	848.8	849.02	-28.95	-13	PASS
NVNT	GPRS1900	512	1850.2	1849.98	-30.46	-13	PASS
NVNT	GPRS1900	810	1909.8	1910.02	-30.71	-13	PASS



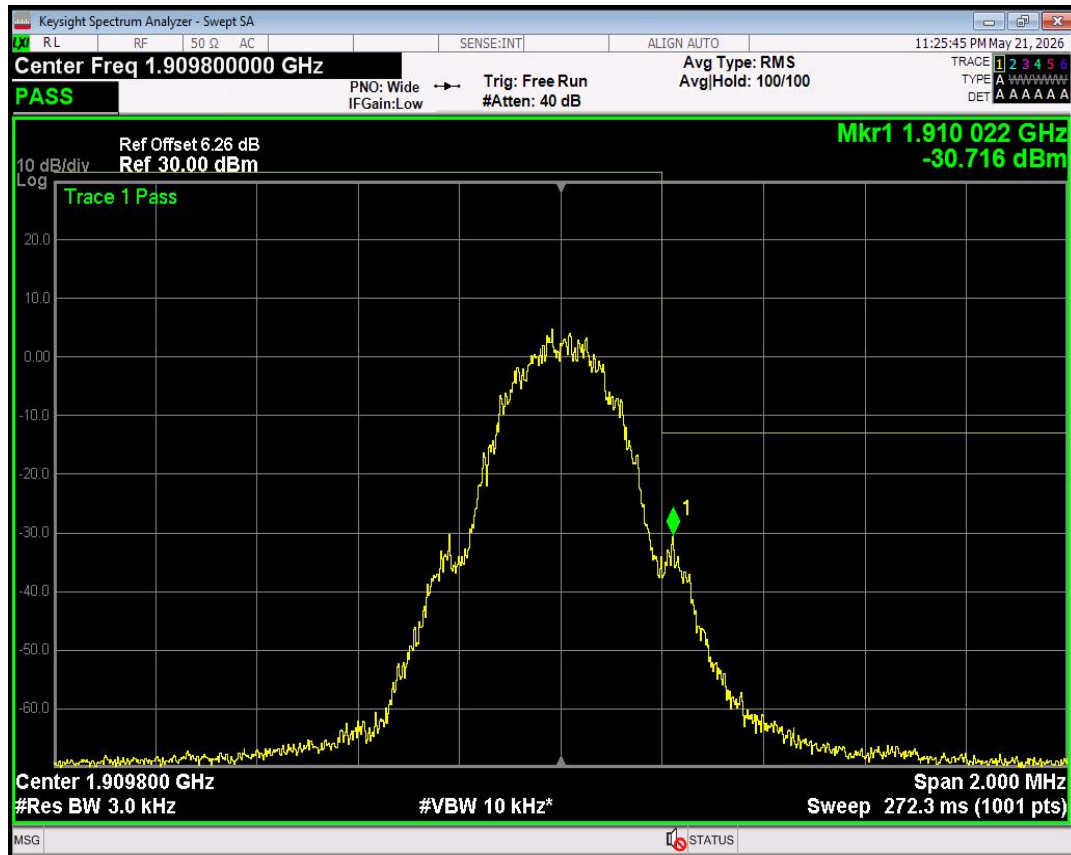
GPRS850 Channel=128 NVNT



GPRS850 Channel=251 NVNT



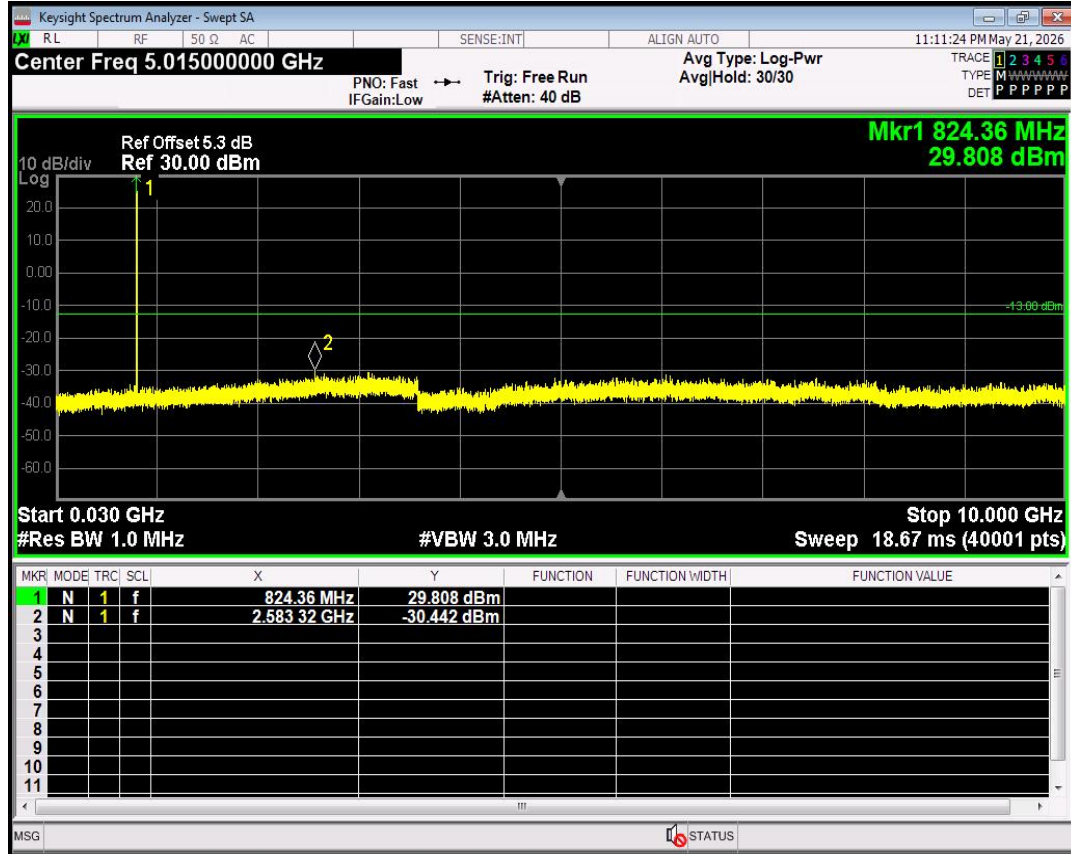
GPRS1900 Channel=512 NVNT



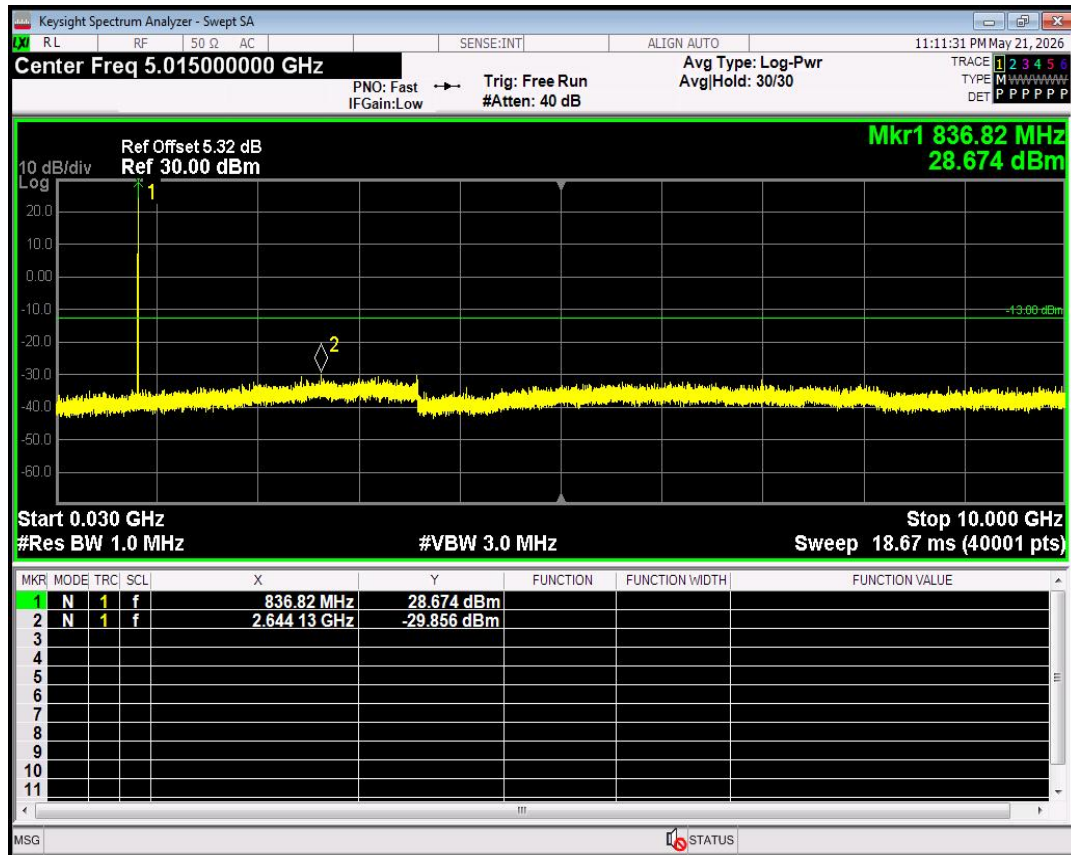
GPRS1900 Channel=810 NVNT

12 Out-of-band emissions

Condition	Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	GPRS850	128	824.2	2583.32	-30.44	-13	PASS
NVNT	GPRS850	190	836.6	2644.13	-29.85	-13	PASS
NVNT	GPRS850	251	848.8	2957.44	-30.24	-13	PASS
NVNT	GPRS1900	512	1850.2	19051.92	-27.10	-13	PASS
NVNT	GPRS1900	661	1880	19065.90	-26.90	-13	PASS
NVNT	GPRS1900	810	1909.8	19629.56	-27.20	-13	PASS



GPRS850 Channel=128 NVNT



GPRS850 Channel=190 NVNT