

GSM 850 Test Data

Table of Contents

1. Conducted Output Power&&EIRP/ERP.....	2
2. Occupied Bandwidth	3
3. Peak to Average Ratio.....	5
4. Unwanted Spurious Emission	7
5. Frequency Stability	10

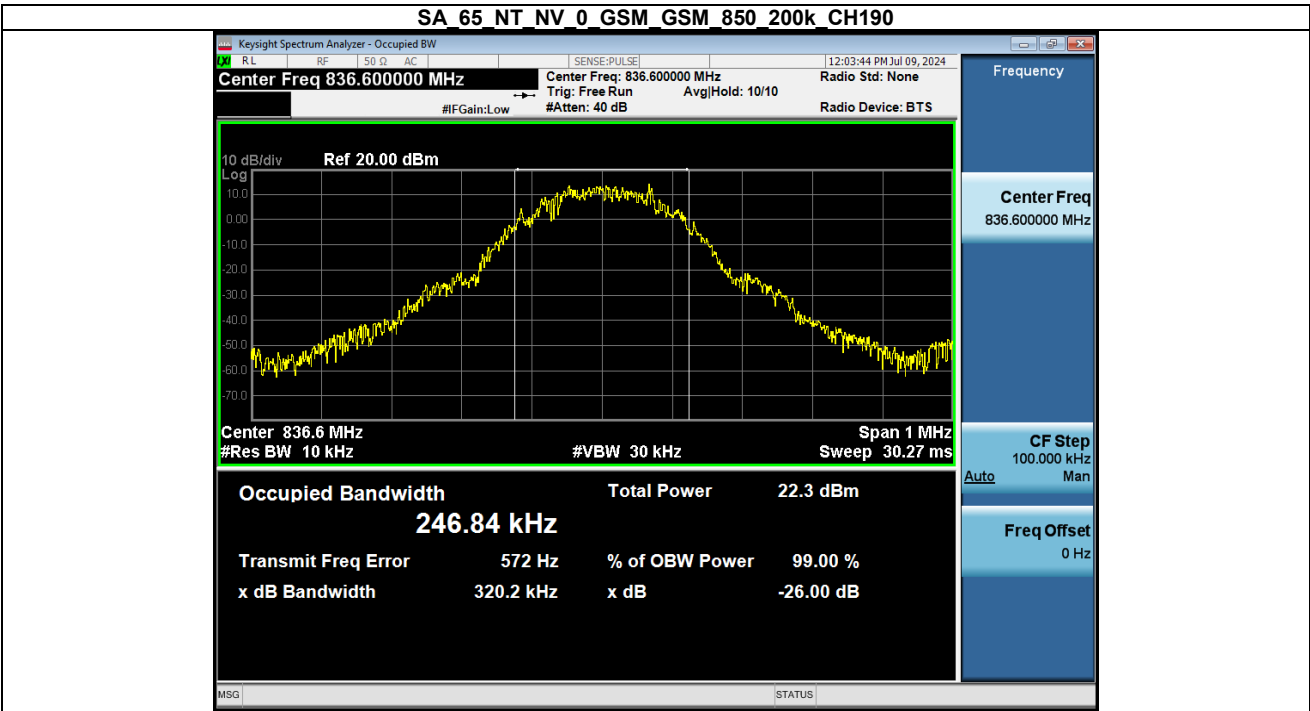
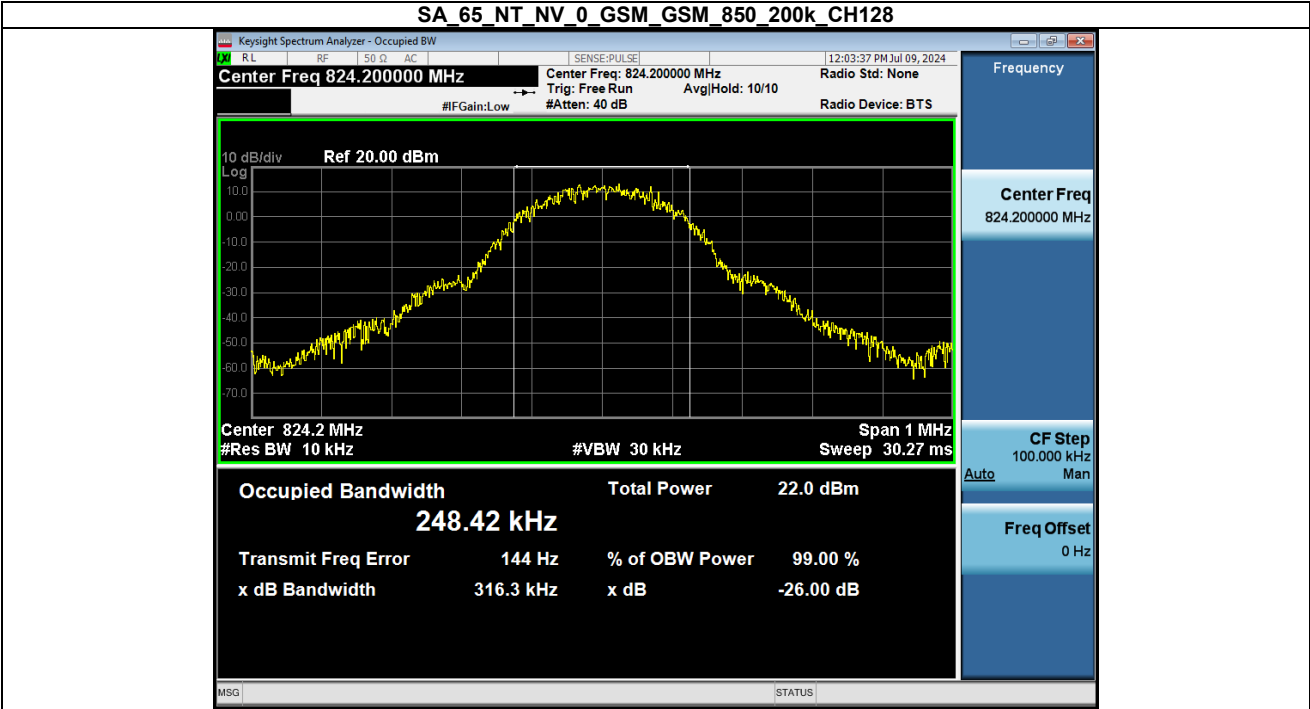
1. Conducted Output Power&&EIRP/ERP

Condition	Band	Modulation	Frequency(MHz)	Conducted Power(dBm)	ANT Gain(dBi)	ERP(dBm)	limit(dBm)	Result
NVNT	GSM 850	GMSK	824.2	30.51	-6.1	22.26	38.45	Pass
NVNT	GSM 850	GMSK	836.6	31.59	-6.1	23.34	38.45	Pass
NVNT	GSM 850	GMSK	848.8	31.05	-6.1	22.80	38.45	Pass

ERP = Conducted Power + ANT Gain - 2.15

2. Occupied Bandwidth

Condition	Band	Modulation	Frequency(MHz)	OBW(MHz)	-26EBW(MHz)
NVNT	GSM 850	GMSK	824.2	0.2484	0.3163
NVNT	GSM 850	GMSK	836.6	0.2468	0.3202
NVNT	GSM 850	GMSK	848.8	0.2509	0.3062

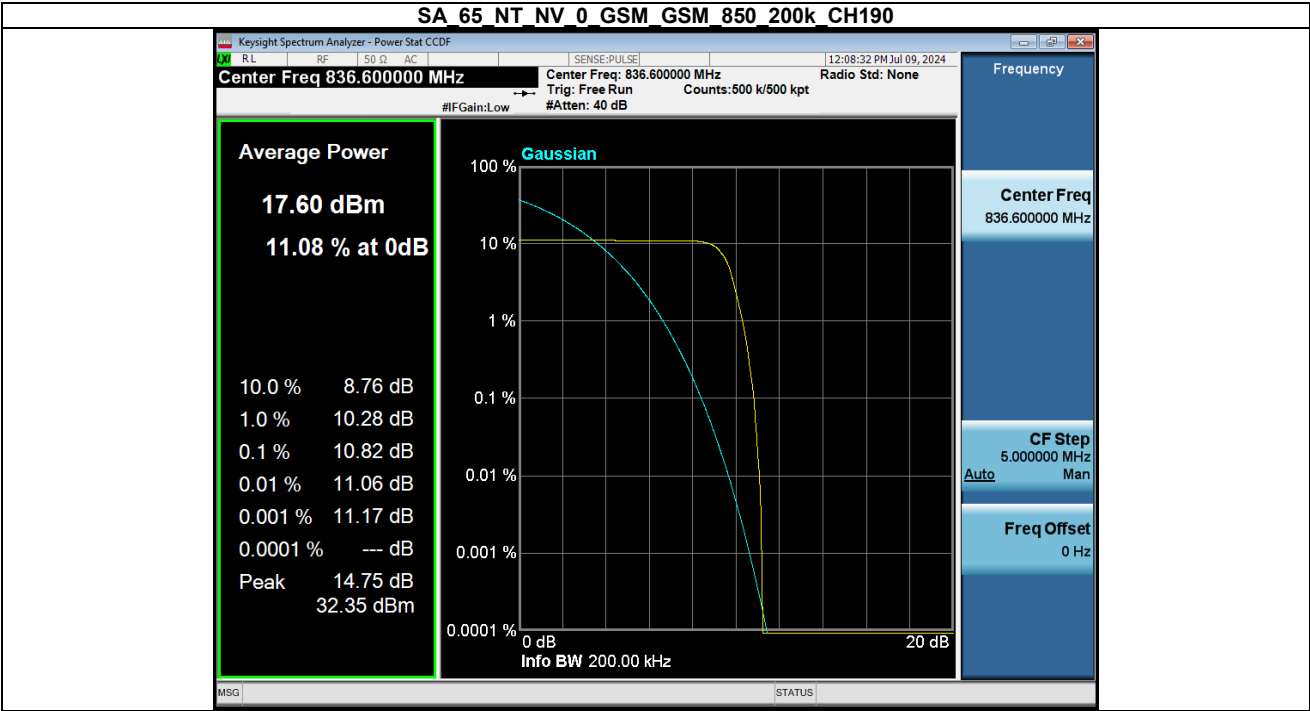
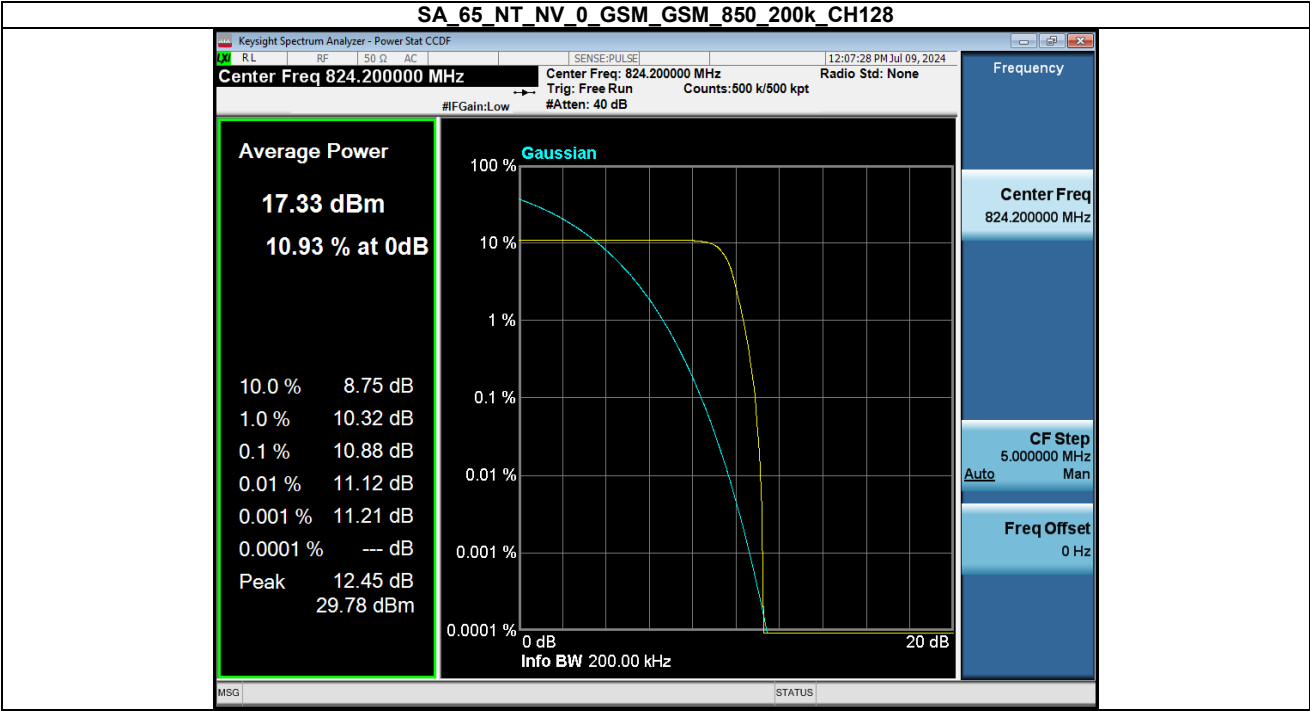


SA_65_NT_NV_0_GSM_GSM_850_200k_CH251

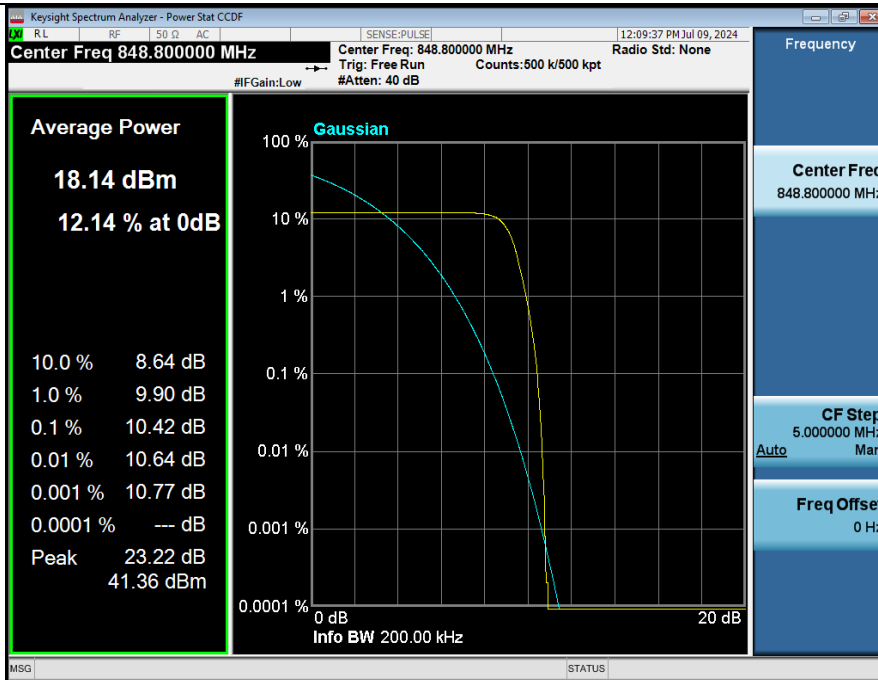


3. Peak to Average Ratio

Condition	Band	Modulation	Frequency(MHz)	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	GSM	GSM 850	824.2	10.88	13.00	Pass
NVNT	GSM	GSM 850	836.6	10.82	13.00	Pass
NVNT	GSM	GSM 850	848.8	10.42	13.00	Pass

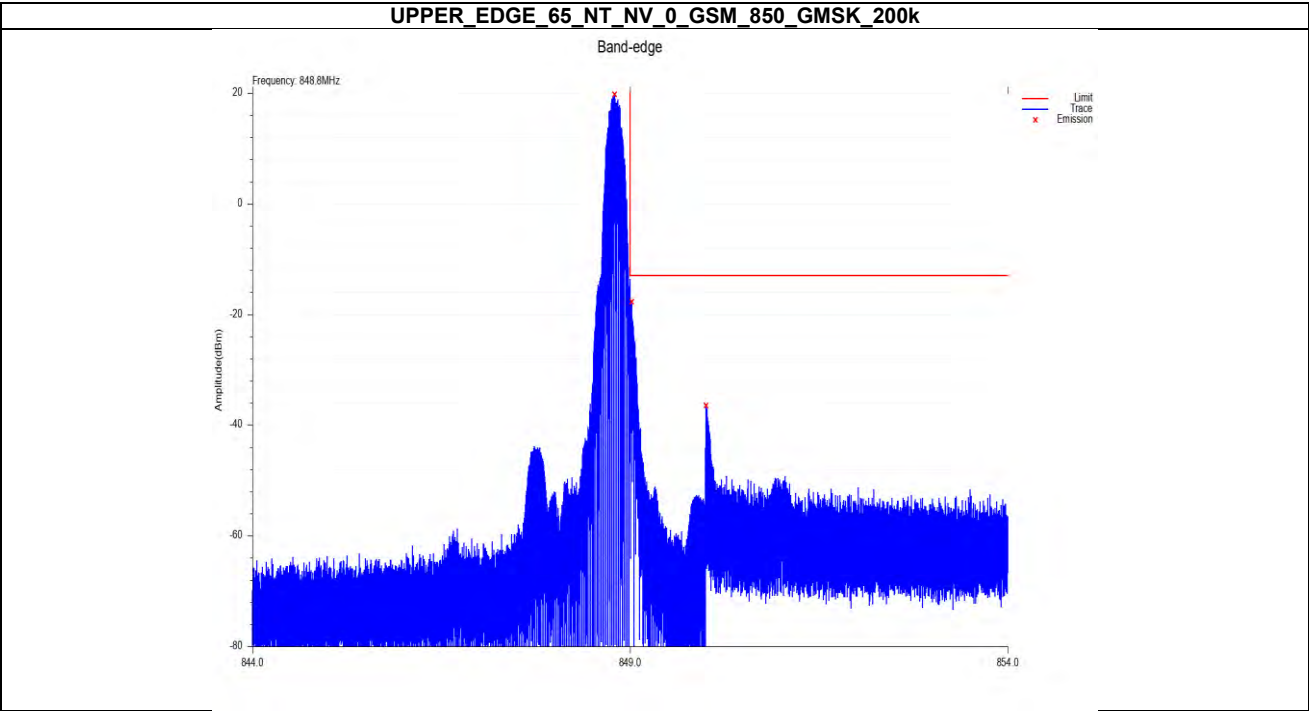
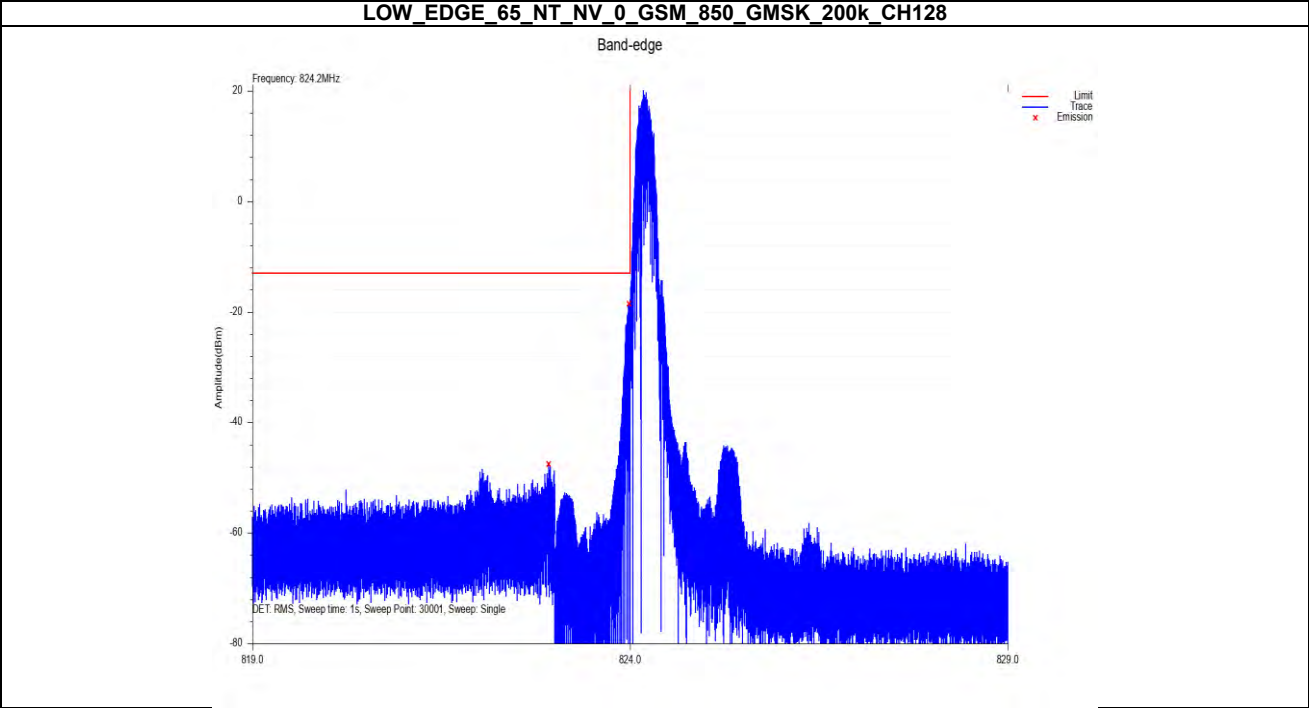


SA_65_NT_NV_0_GSM_GSM_850_200k_CH251

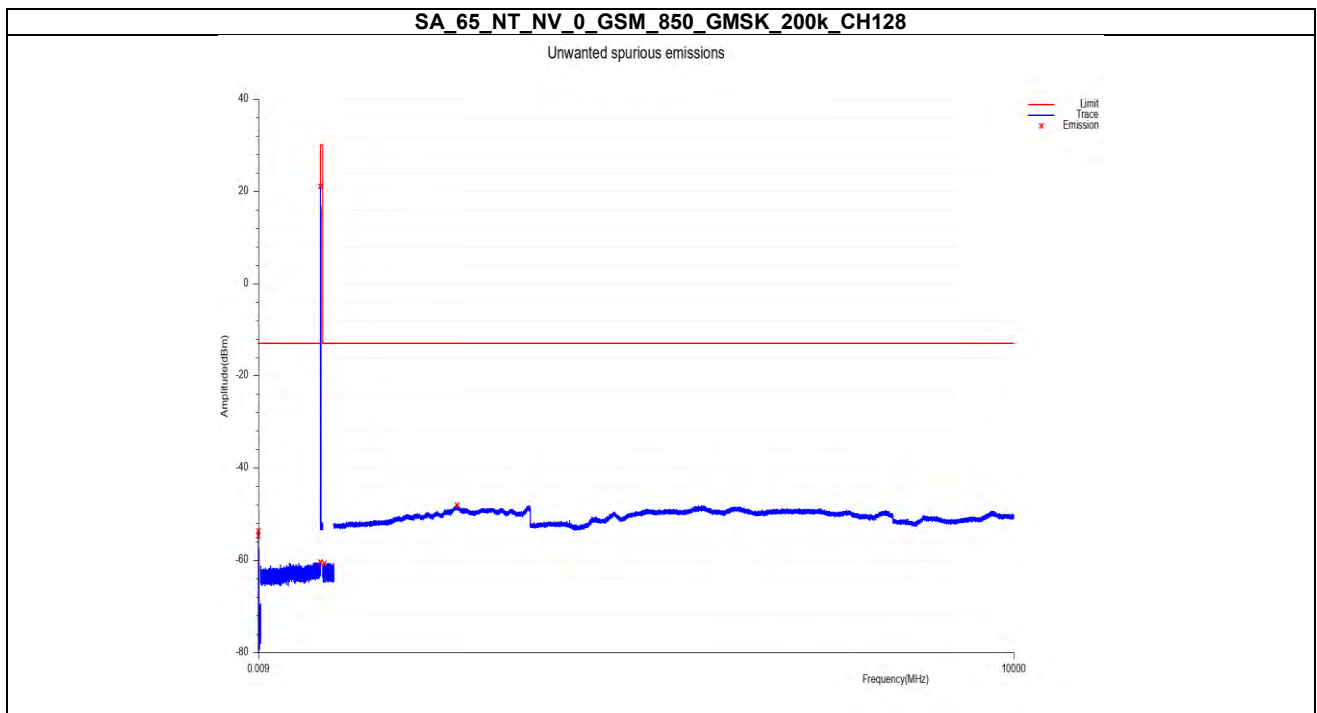


4. Unwanted Spurious Emission

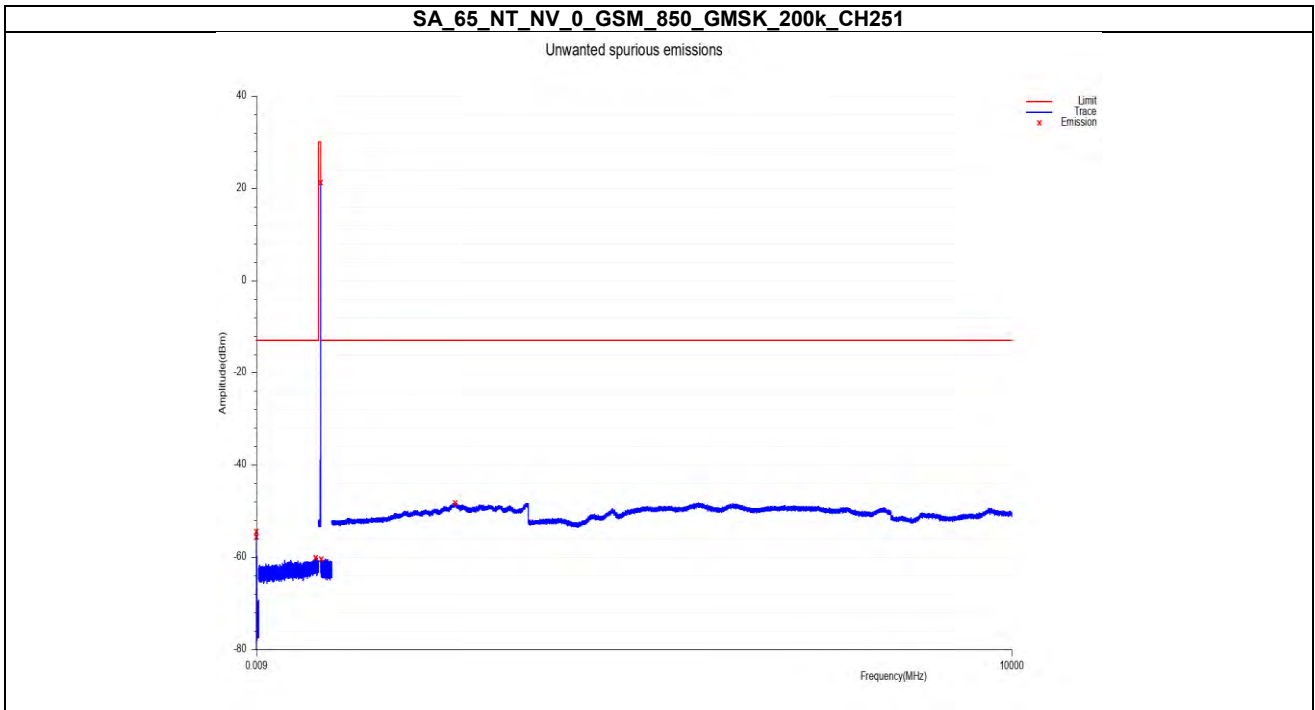
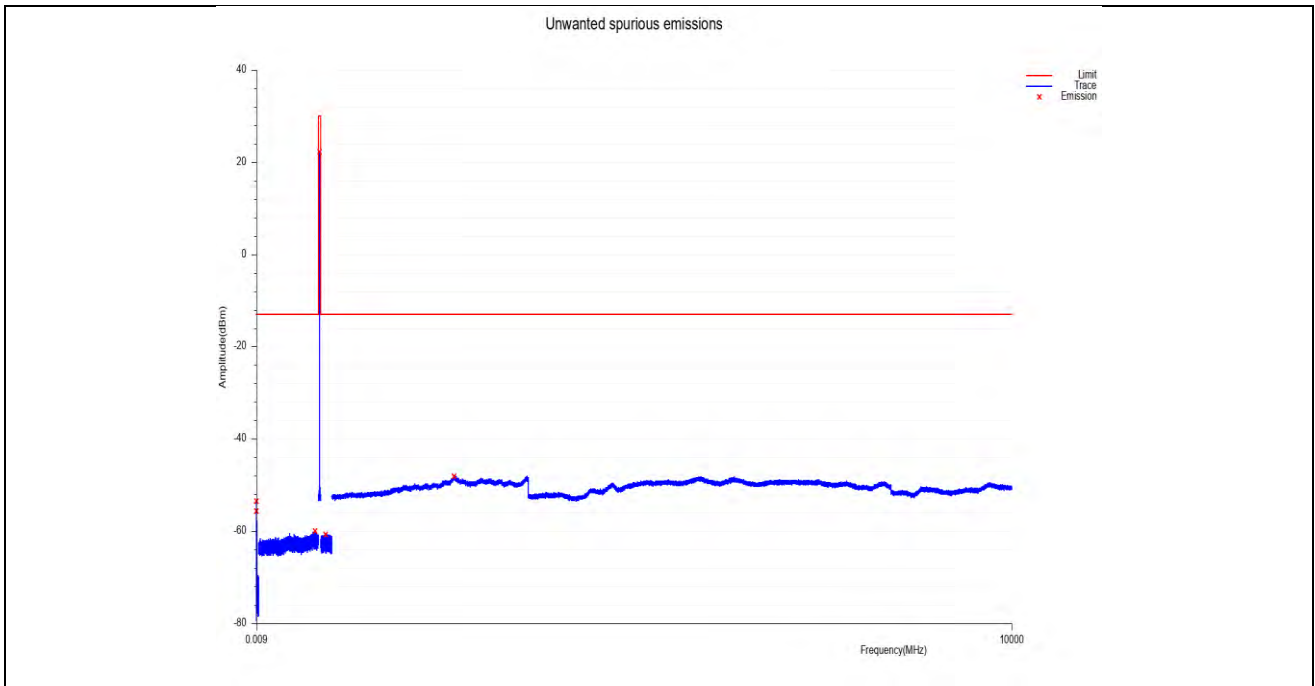
Condition	Mode	Band	Frequency(MHz)	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	GSM 850	GMSK	824.20	1000	819.0~823.0	822.920	-47.55	-13	Pass
NVNT	GSM 850	GMSK	824.20	3	823.0~824.0	823.986	-18.46	-13	Pass
NVNT	GSM 850	GMSK	848.80	3	849.0~850.0	849.020	-17.80	-13	Pass
NVNT	GSM 850	GMSK	848.80	1000	850.0~854.0	850.004	-36.54	-13	Pass



Condition	Band	Modulation	Frequency(MHz)	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	GSM 850	GMSK	824.20	1	0.009~0.150	0.010	-53.66	-13	Pass
NVNT	GSM 850	GMSK	824.20	10	0.150~30.000	0.160	-54.73	-13	Pass
NVNT	GSM 850	GMSK	824.20	100	30.000~819.000	818.816	-60.44	-13	Pass
NVNT	GSM 850	GMSK	824.20	100	854.000~1000.000	874.060	-60.72	-13	Pass
NVNT	GSM 850	GMSK	824.20	1000	1000.000~10000.000	2634.400	-48.10	-13	Pass
NVNT	GSM 850	GMSK	836.60	1	0.009~0.150	0.010	-53.55	-13	Pass
NVNT	GSM 850	GMSK	836.60	10	0.150~30.000	0.159	-55.68	-13	Pass
NVNT	GSM 850	GMSK	836.60	100	30.000~819.000	779.997	-59.98	-13	Pass
NVNT	GSM 850	GMSK	836.60	100	854.000~1000.000	919.934	-60.68	-13	Pass
NVNT	GSM 850	GMSK	836.60	1000	1000.000~10000.000	2615.200	-48.10	-13	Pass
NVNT	GSM 850	GMSK	848.80	1	0.009~0.150	0.009	-54.49	-13	Pass
NVNT	GSM 850	GMSK	848.80	10	0.150~30.000	0.162	-55.62	-13	Pass
NVNT	GSM 850	GMSK	848.80	100	30.000~819.000	785.467	-60.08	-13	Pass
NVNT	GSM 850	GMSK	848.80	100	854.000~1000.000	855.392	-60.37	-13	Pass
NVNT	GSM 850	GMSK	848.80	1000	1000.000~10000.000	2631.700	-48.24	-13	Pass



SA_65_NT_NV_0_GSM_850_GMSK_200k_CH190



5. Frequency Stability

Temperature(C)	Voltage(V)	Band	Modulation	Frequency(MHz)	Frequency Stabilization (ppm)	Limit_Low(ppm)	Limit_Up(ppm)	Result
-30	3.3	GSM 850	GMSK	824.2	0.0069	-2.50	2.50	Pass
-30	3.3	GSM 850	GMSK	836.6	0.0076	-2.50	2.50	Pass
-30	3.3	GSM 850	GMSK	848.8	0.0099	-2.50	2.50	Pass
-30	3.8	GSM 850	GMSK	824.2	0.0092	-2.50	2.50	Pass
-30	3.8	GSM 850	GMSK	836.6	0.0037	-2.50	2.50	Pass
-30	3.8	GSM 850	GMSK	848.8	0.0067	-2.50	2.50	Pass
-30	4.2	GSM 850	GMSK	824.2	-0.0082	-2.50	2.50	Pass
-30	4.2	GSM 850	GMSK	836.6	0.0047	-2.50	2.50	Pass
-30	4.2	GSM 850	GMSK	848.8	0.0072	-2.50	2.50	Pass
-20	3.3	GSM 850	GMSK	824.2	-0.0070	-2.50	2.50	Pass
-20	3.3	GSM 850	GMSK	836.6	0.0072	-2.50	2.50	Pass
-20	3.3	GSM 850	GMSK	848.8	0.0097	-2.50	2.50	Pass
-20	3.8	GSM 850	GMSK	824.2	0.0057	-2.50	2.50	Pass
-20	3.8	GSM 850	GMSK	836.6	0.0052	-2.50	2.50	Pass
-20	3.8	GSM 850	GMSK	848.8	0.0073	-2.50	2.50	Pass
-20	4.2	GSM 850	GMSK	824.2	0.0092	-2.50	2.50	Pass
-20	4.2	GSM 850	GMSK	836.6	0.0059	-2.50	2.50	Pass
-20	4.2	GSM 850	GMSK	848.8	0.0070	-2.50	2.50	Pass
-10	3.3	GSM 850	GMSK	824.2	0.0069	-2.50	2.50	Pass
-10	3.3	GSM 850	GMSK	836.6	-0.0056	-2.50	2.50	Pass
-10	3.3	GSM 850	GMSK	848.8	0.0064	-2.50	2.50	Pass
-10	3.8	GSM 850	GMSK	824.2	0.0085	-2.50	2.50	Pass
-10	3.8	GSM 850	GMSK	836.6	0.0021	-2.50	2.50	Pass
-10	3.8	GSM 850	GMSK	848.8	0.0096	-2.50	2.50	Pass
-10	4.2	GSM 850	GMSK	824.2	0.0063	-2.50	2.50	Pass
-10	4.2	GSM 850	GMSK	836.6	0.0039	-2.50	2.50	Pass
-10	4.2	GSM 850	GMSK	848.8	0.0058	-2.50	2.50	Pass
0	3.3	GSM 850	GMSK	824.2	0.0046	-2.50	2.50	Pass
0	3.3	GSM 850	GMSK	836.6	0.0084	-2.50	2.50	Pass
0	3.3	GSM 850	GMSK	848.8	0.0077	-2.50	2.50	Pass
0	3.8	GSM 850	GMSK	824.2	0.0057	-2.50	2.50	Pass
0	3.8	GSM 850	GMSK	836.6	0.0092	-2.50	2.50	Pass
0	3.8	GSM 850	GMSK	848.8	0.0069	-2.50	2.50	Pass
0	4.2	GSM	GMSK	824.2	0.0031	-2.50	2.50	Pass

		850						
0	4.2	GSM 850	GMSK	836.6	0.0074	-2.50	2.50	Pass
0	4.2	GSM 850	GMSK	848.8	-0.0084	-2.50	2.50	Pass
10	3.3	GSM 850	GMSK	824.2	0.0049	-2.50	2.50	Pass
10	3.3	GSM 850	GMSK	836.6	0.0074	-2.50	2.50	Pass
10	3.3	GSM 850	GMSK	848.8	0.0086	-2.50	2.50	Pass
10	3.8	GSM 850	GMSK	824.2	0.0108	-2.50	2.50	Pass
10	3.8	GSM 850	GMSK	836.6	0.0037	-2.50	2.50	Pass
10	3.8	GSM 850	GMSK	848.8	0.0067	-2.50	2.50	Pass
10	4.2	GSM 850	GMSK	824.2	0.0074	-2.50	2.50	Pass
10	4.2	GSM 850	GMSK	836.6	0.0066	-2.50	2.50	Pass
10	4.2	GSM 850	GMSK	848.8	0.0047	-2.50	2.50	Pass
20	3.3	GSM 850	GMSK	824.2	0.0050	-2.50	2.50	Pass
20	3.3	GSM 850	GMSK	836.6	0.0104	-2.50	2.50	Pass
20	3.3	GSM 850	GMSK	848.8	0.0090	-2.50	2.50	Pass
20	3.8	GSM 850	GMSK	824.2	0.0058	-2.50	2.50	Pass
20	3.8	GSM 850	GMSK	836.6	0.0058	-2.50	2.50	Pass
20	3.8	GSM 850	GMSK	848.8	-0.0042	-2.50	2.50	Pass
20	4.2	GSM 850	GMSK	824.2	0.0053	-2.50	2.50	Pass
20	4.2	GSM 850	GMSK	836.6	0.0090	-2.50	2.50	Pass
20	4.2	GSM 850	GMSK	848.8	0.0057	-2.50	2.50	Pass
30	3.3	GSM 850	GMSK	824.2	0.0052	-2.50	2.50	Pass
30	3.3	GSM 850	GMSK	836.6	0.0059	-2.50	2.50	Pass
30	3.3	GSM 850	GMSK	848.8	0.0062	-2.50	2.50	Pass
30	3.8	GSM 850	GMSK	824.2	0.0078	-2.50	2.50	Pass
30	3.8	GSM 850	GMSK	836.6	0.0050	-2.50	2.50	Pass
30	3.8	GSM 850	GMSK	848.8	0.0094	-2.50	2.50	Pass
30	4.2	GSM 850	GMSK	824.2	0.0056	-2.50	2.50	Pass
30	4.2	GSM 850	GMSK	836.6	-0.0086	-2.50	2.50	Pass
30	4.2	GSM 850	GMSK	848.8	0.0109	-2.50	2.50	Pass
40	3.3	GSM 850	GMSK	824.2	0.0069	-2.50	2.50	Pass
40	3.3	GSM 850	GMSK	836.6	0.0079	-2.50	2.50	Pass
40	3.3	GSM 850	GMSK	848.8	0.0073	-2.50	2.50	Pass
40	3.8	GSM 850	GMSK	824.2	0.0059	-2.50	2.50	Pass
40	3.8	GSM 850	GMSK	836.6	0.0055	-2.50	2.50	Pass
40	3.8	GSM 850	GMSK	848.8	0.0077	-2.50	2.50	Pass
40	4.2	GSM 850	GMSK	824.2	0.0026	-2.50	2.50	Pass
40	4.2	GSM 850	GMSK	836.6	0.0077	-2.50	2.50	Pass
40	4.2	GSM 850	GMSK	848.8	0.0079	-2.50	2.50	Pass

50	3.3	GSM 850	GMSK	824.2	0.0062	-2.50	2.50	Pass
50	3.3	GSM 850	GMSK	836.6	0.0091	-2.50	2.50	Pass
50	3.3	GSM 850	GMSK	848.8	-0.0084	-2.50	2.50	Pass
50	3.8	GSM 850	GMSK	824.2	0.0079	-2.50	2.50	Pass
50	3.8	GSM 850	GMSK	836.6	0.0083	-2.50	2.50	Pass
50	3.8	GSM 850	GMSK	848.8	0.0083	-2.50	2.50	Pass
50	4.2	GSM 850	GMSK	824.2	0.0048	-2.50	2.50	Pass
50	4.2	GSM 850	GMSK	836.6	0.0097	-2.50	2.50	Pass
50	4.2	GSM 850	GMSK	848.8	0.0080	-2.50	2.50	Pass