

GPRS 850 Test Data

FCC ID: 2BLBN-SMART

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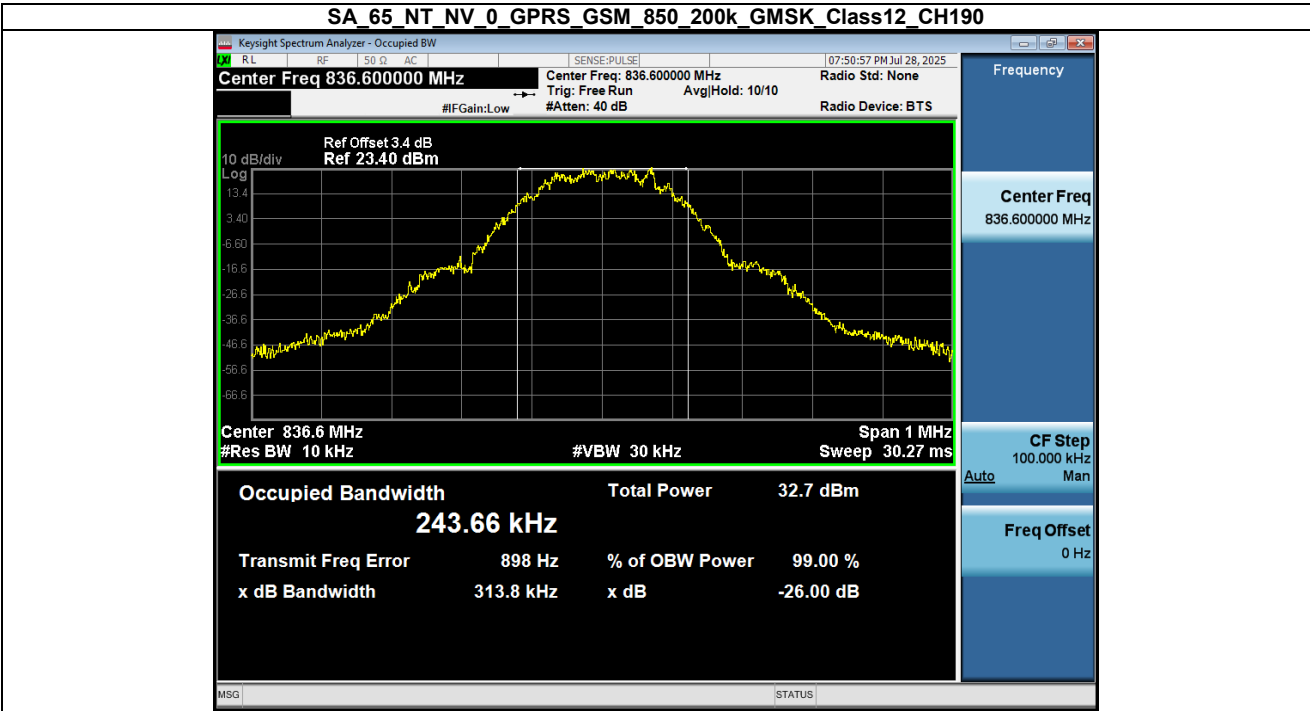
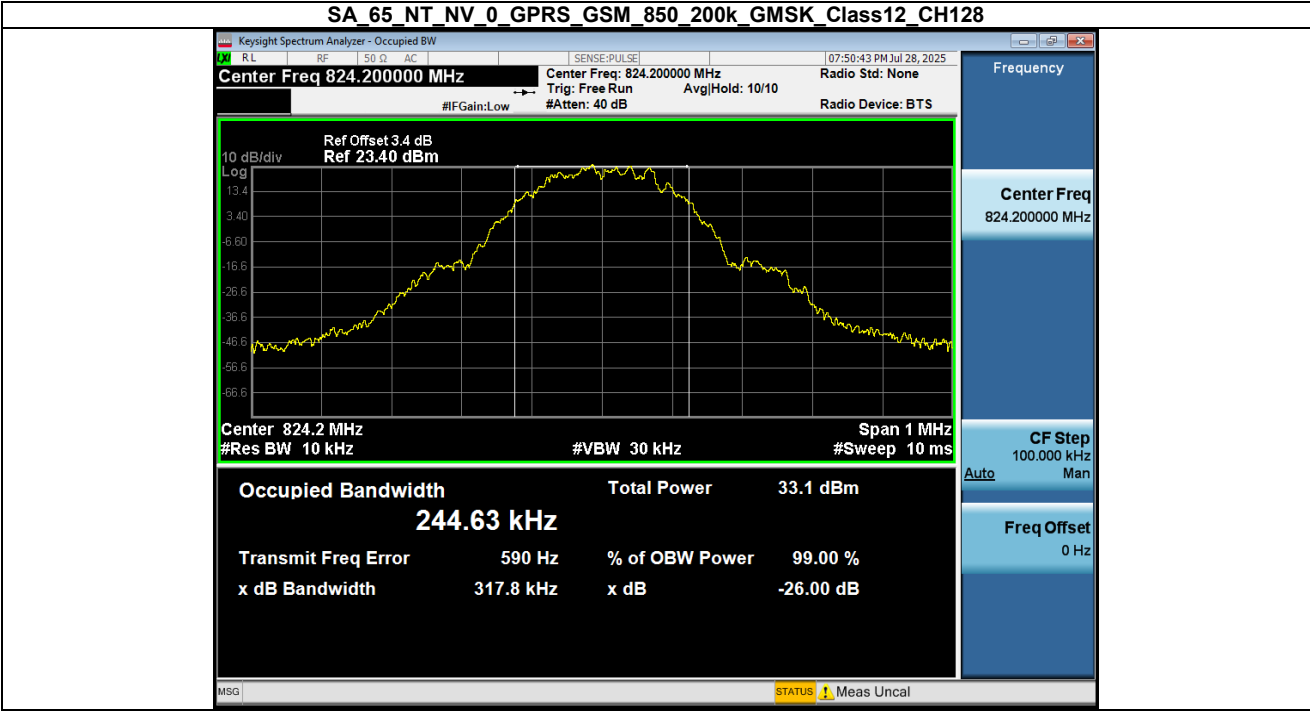
1. Conducted Output Power&&EIRP/ERP

Services	Band	Modulation	Class Type	Frequency(MHz)	Conducted Power(dBm)	ANT Gain(dBi)	ERP(dBm)	limit(dBm)	Result
GPRS	GSM 850	GMSK	Class8	824.2	30.66	0.72	29.23	38.45	Pass
GPRS	GSM 850	GMSK	Class10	824.2	30.19	0.72	27.76	38.45	Pass
GPRS	GSM 850	GMSK	Class11	824.2	30.40	0.72	28.97	38.45	Pass
GPRS	GSM 850	GMSK	Class12	824.2	30.04	0.72	28.61	38.45	Pass
GPRS	GSM 850	GMSK	Class8	836.6	30.21	0.72	28.78	38.45	Pass
GPRS	GSM 850	GMSK	Class10	836.6	30.97	0.72	29.54	38.45	Pass
GPRS	GSM 850	GMSK	Class11	836.6	29.30	0.72	27.87	38.45	Pass
GPRS	GSM 850	GMSK	Class12	836.6	29.51	0.72	28.08	38.45	Pass
GPRS	GSM 850	GMSK	Class8	848.8	29.89	0.72	27.46	38.45	Pass
GPRS	GSM 850	GMSK	Class10	848.8	30.72	0.72	29.29	38.45	Pass
GPRS	GSM 850	GMSK	Class11	848.8	29.93	0.72	27.50	38.45	Pass
GPRS	GSM 850	GMSK	Class12	848.8	30.64	0.72	29.21	38.45	Pass

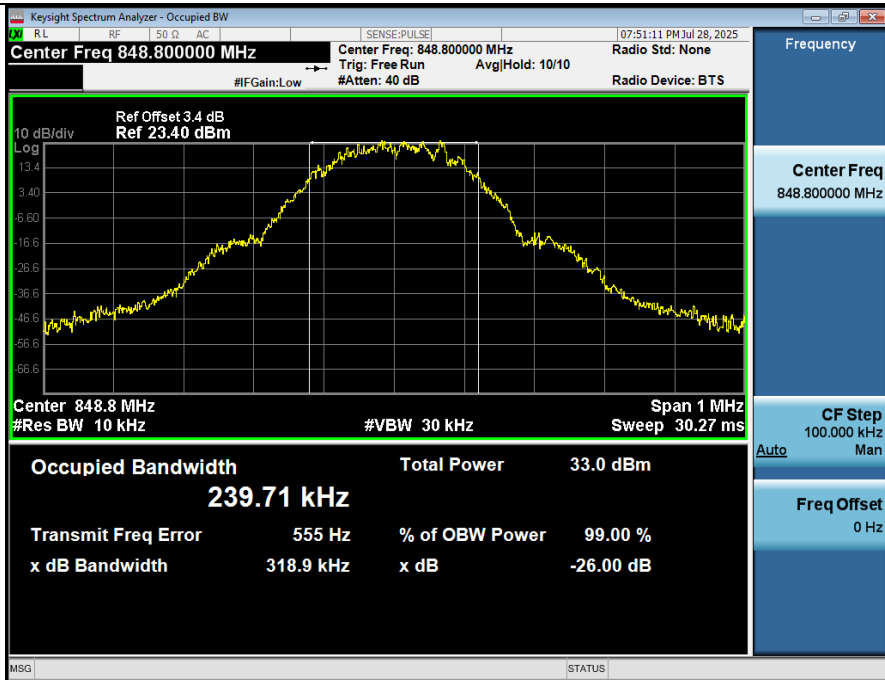
ERP = Conducted Power + ANT Gain - 2.15

2. Occupied Bandwidth

Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	OBW(MHz)	26EBW(MHz)
NVNT	GPRS	GSM 850	GMSK	Class12	824.2	0.2446	0.3178
NVNT	GPRS	GSM 850	GMSK	Class12	836.6	0.2437	0.3138
NVNT	GPRS	GSM 850	GMSK	Class12	848.8	0.2397	0.3189

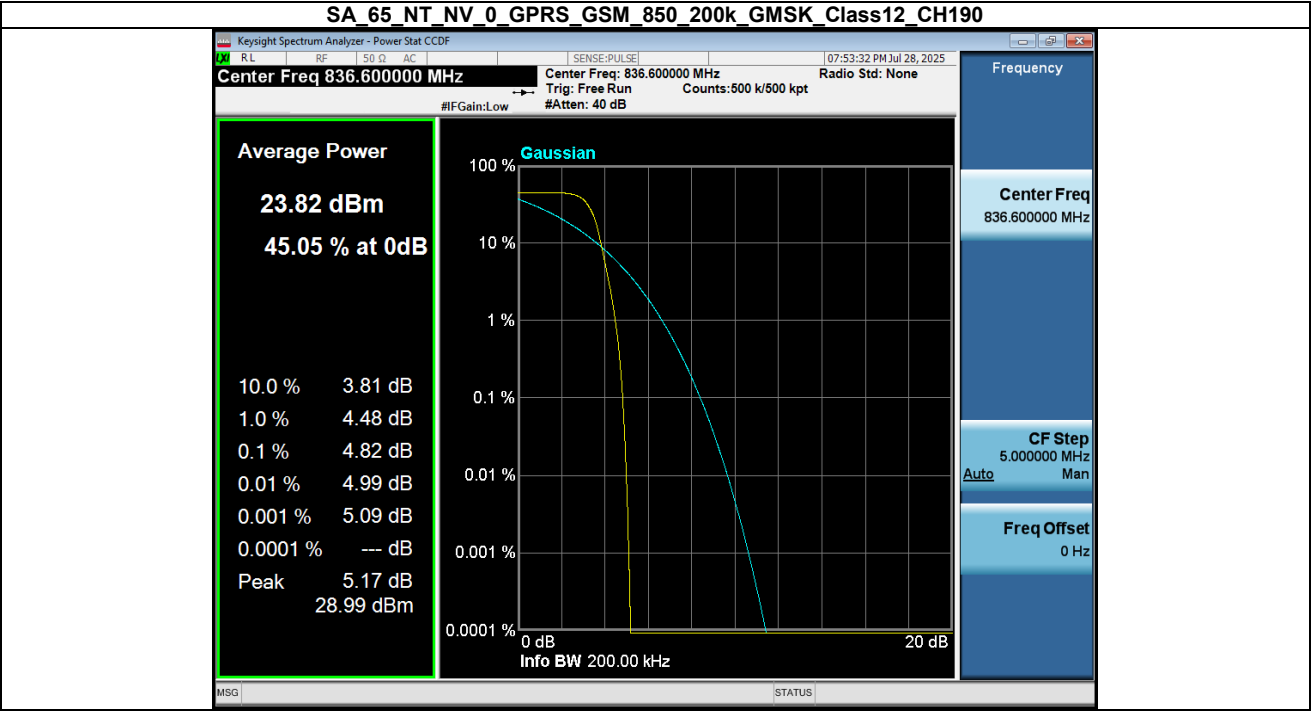


SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH251

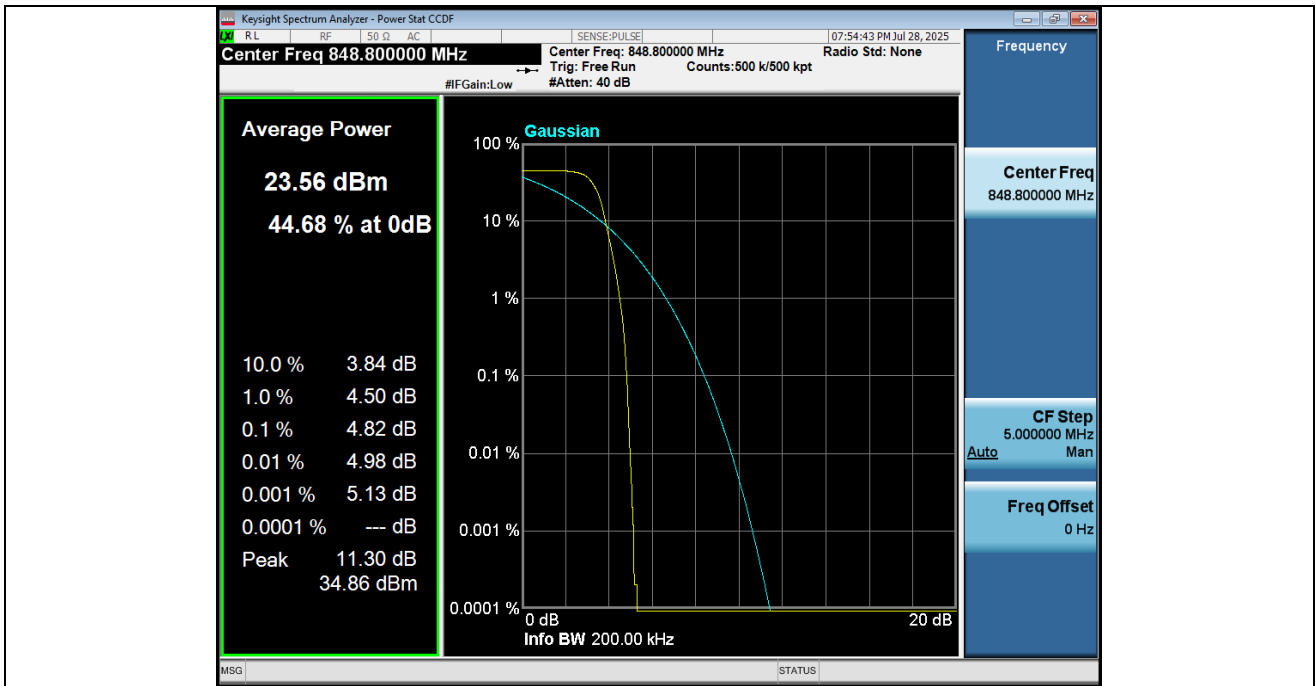


3. Peak to Average Ratio

Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	GPRS	GSM 850	GMSK	Class12	824.2	4.84	13.00	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	836.6	4.82	13.00	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.8	4.82	13.00	Pass



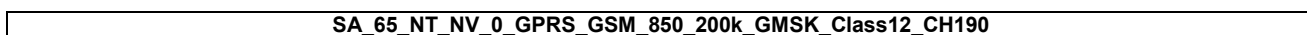
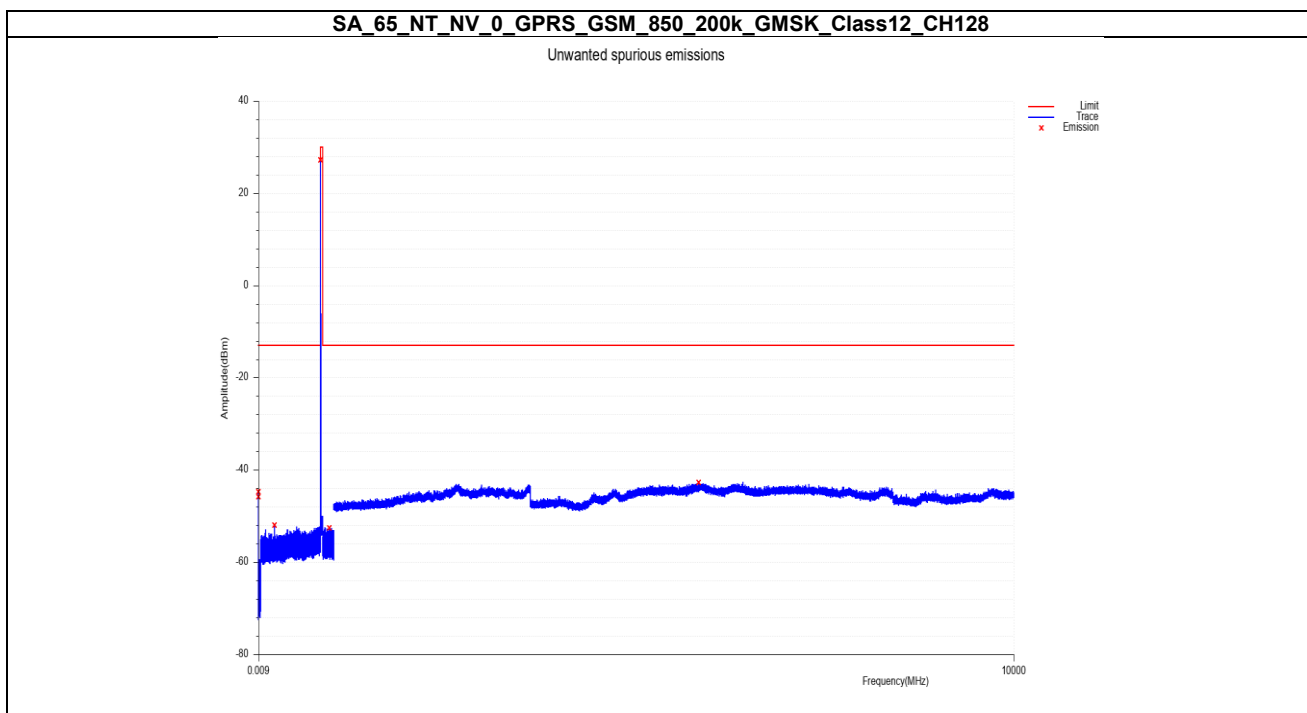
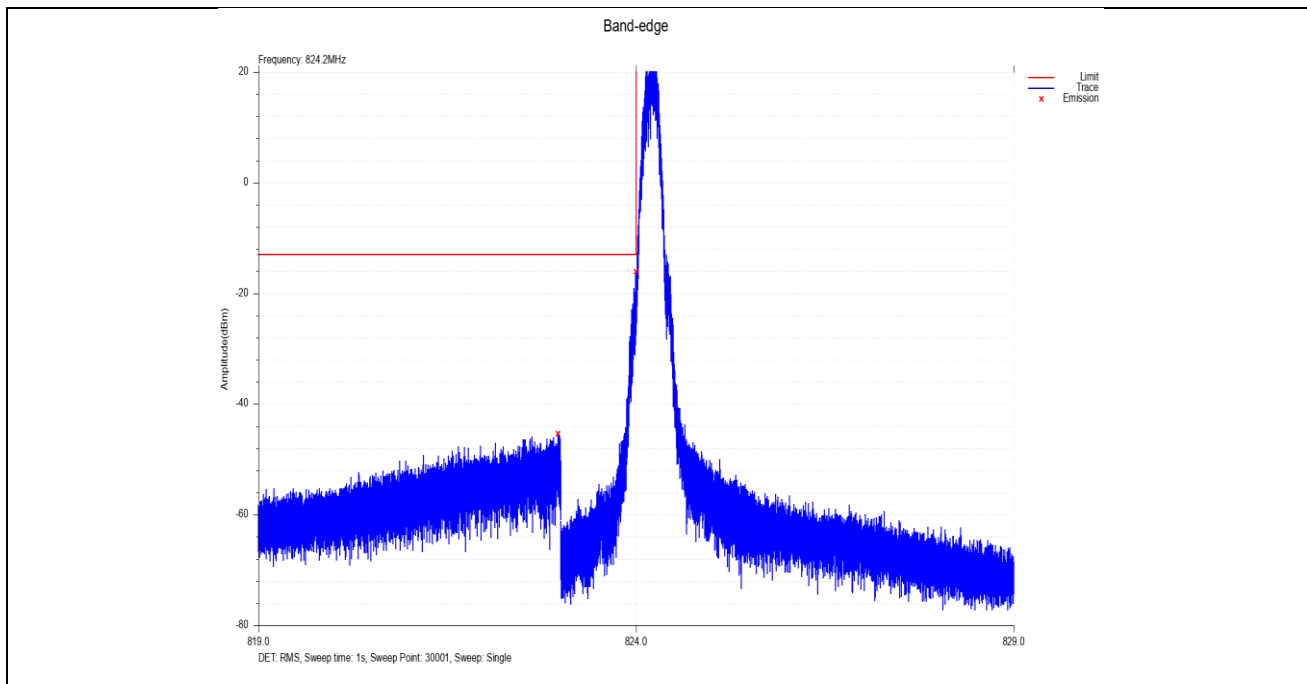
SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH251

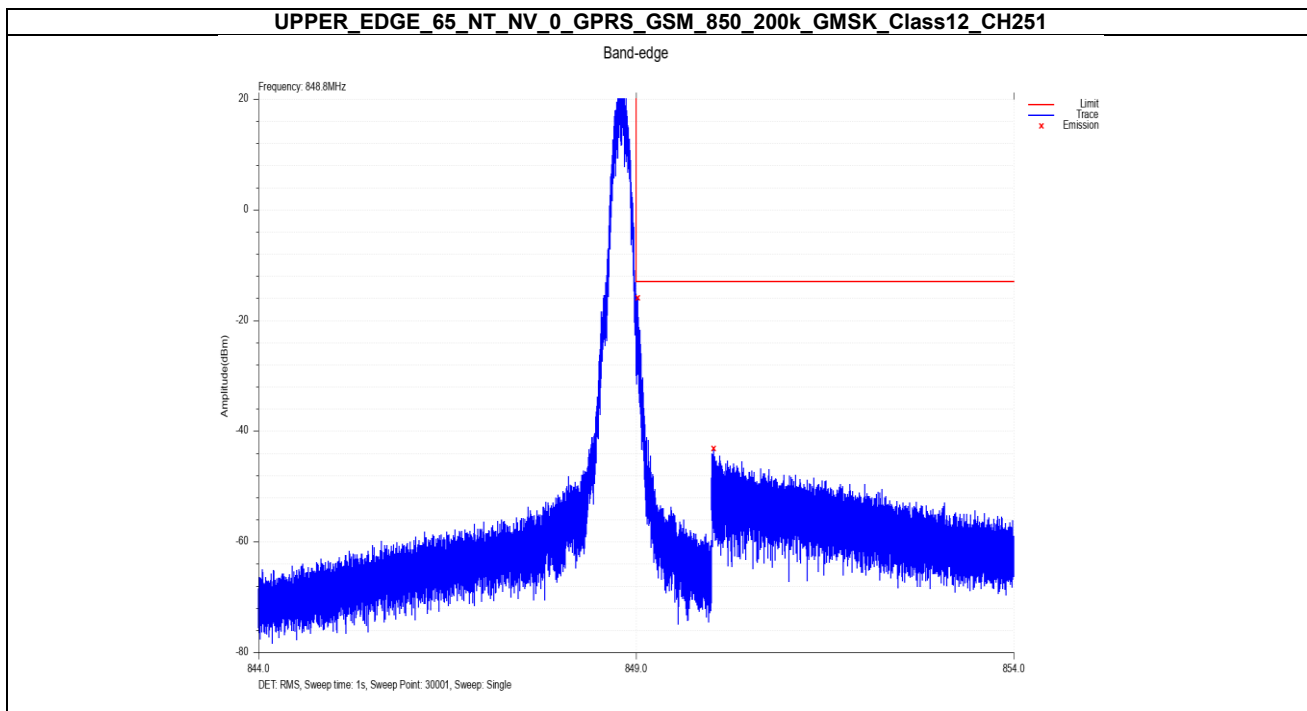
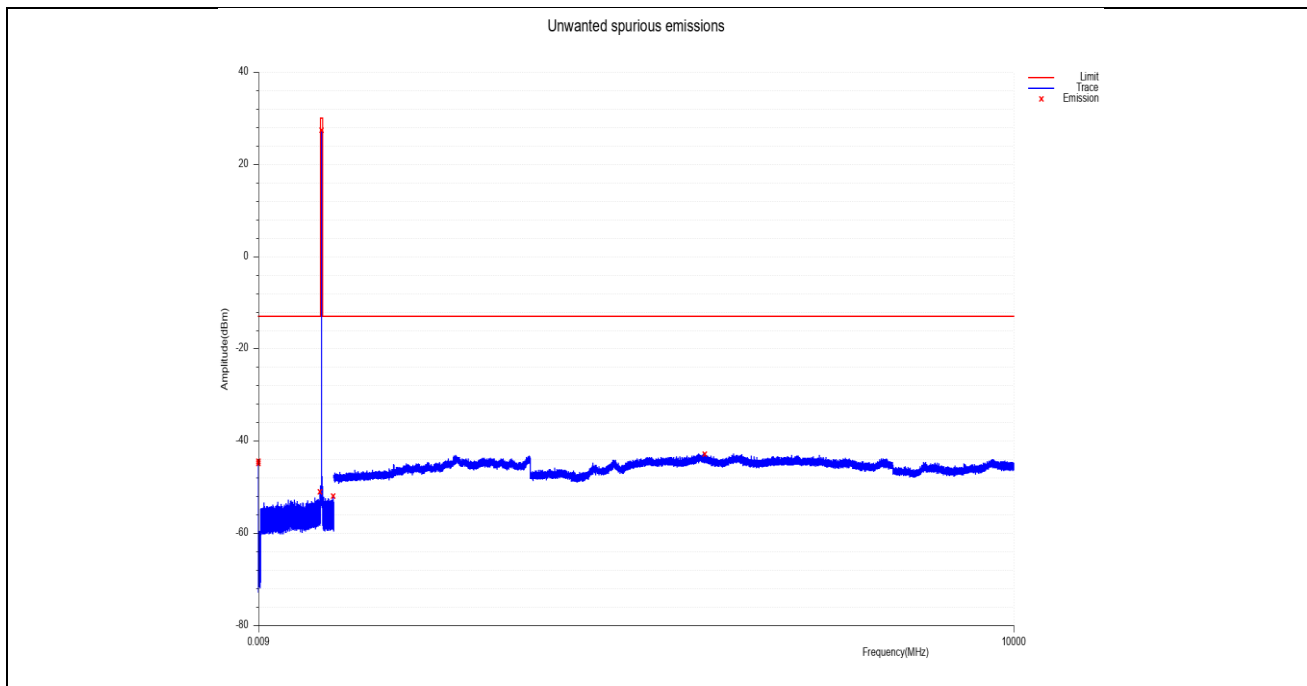


4. Unwanted Spurious Emission

Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	GPRS	GS M 850	GMSK	Class1 2	824.20	1000	819.0~823.0	822.967	-45.33	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	824.20	3	823.0~824.0	823.997	-16.11	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	824.20	1	0.009~0.150	0.009	-44.73	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	824.20	10	0.150~30.000	0.162	-45.80	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	824.20	100	30.000~819.000	215.336	-51.95	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	824.20	100	854.000~1000.000	941.245	-52.57	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	824.20	1000	1000.000~10000.000	5827.300	-42.73	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	836.60	1	0.009~0.150	0.009	-44.48	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	836.60	10	0.150~30.000	0.150	-44.95	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	836.60	100	30.000~819.000	810.663	-51.08	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	836.60	100	854.000~1000.000	989.361	-52.00	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	836.60	1000	1000.000~10000.000	5905.900	-42.88	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	848.80	3	849.0~850.0	849.021	-15.95	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	848.80	1000	850.0~854.0	850.028	-43.22	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	848.80	1	0.009~0.150	0.011	-44.75	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	848.80	10	0.150~30.000	0.157	-46.92	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	848.80	100	30.000~819.000	773.817	-52.28	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	848.80	100	854.000~1000.000	871.578	-52.47	-13	Pass
NVNT	GPRS	GS M 850	GMSK	Class1 2	848.80	1000	1000.000~10000.000	5857.300	-42.70	-13	Pass

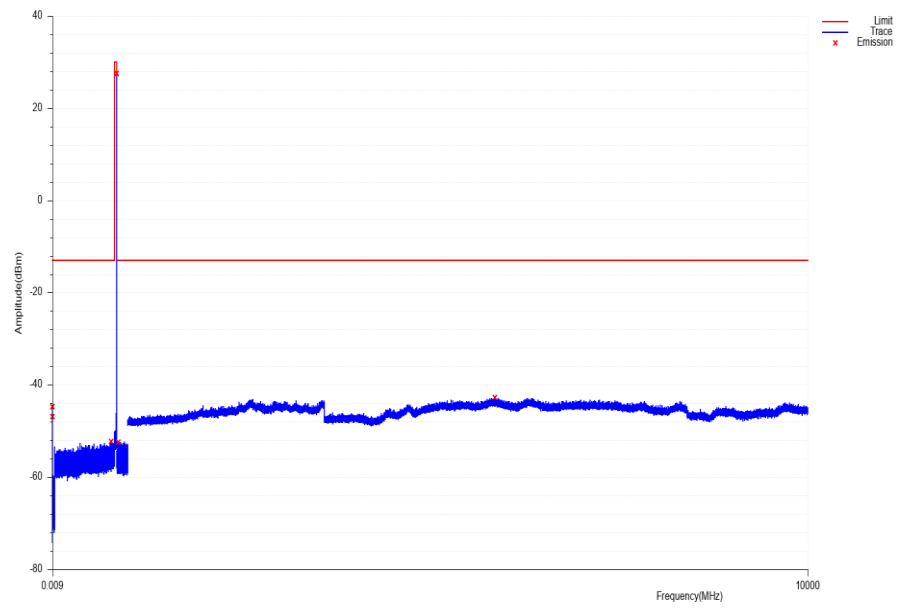
LOW_EDGE_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH128





SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH251

Unwanted spurious emissions



5. Frequency Stability

Temperature (C)	Voltage (V)	Services	Band	Modulation	Class Type	Frequency (MHz)	Frequency Stabilization (ppm)	Limit_Low (ppm)	Limit_Up (ppm)	Result
-30	3.47	GPRS	GSM 850	GMSK	Class12	824.2	0.0016	-2.50	2.50	Pass
-30	3.47	GPRS	GSM 850	GMSK	Class12	836.6	0.0015	-2.50	2.50	Pass
-30	3.47	GPRS	GSM 850	GMSK	Class12	848.8	0.0037	-2.50	2.50	Pass
-30	3.85	GPRS	GSM 850	GMSK	Class12	824.2	0.0063	-2.50	2.50	Pass
-30	3.85	GPRS	GSM 850	GMSK	Class12	836.6	0.0042	-2.50	2.50	Pass
-30	3.85	GPRS	GSM 850	GMSK	Class12	848.8	0.0078	-2.50	2.50	Pass
-30	4.24	GPRS	GSM 850	GMSK	Class12	824.2	0.0037	-2.50	2.50	Pass
-30	4.24	GPRS	GSM 850	GMSK	Class12	836.6	0.0028	-2.50	2.50	Pass
-30	4.24	GPRS	GSM 850	GMSK	Class12	848.8	0.0034	-2.50	2.50	Pass
-20	3.47	GPRS	GSM 850	GMSK	Class12	824.2	0.0023	-2.50	2.50	Pass
-20	3.47	GPRS	GSM 850	GMSK	Class12	836.6	0.0008	-2.50	2.50	Pass
-20	3.47	GPRS	GSM 850	GMSK	Class12	848.8	0.0063	-2.50	2.50	Pass
-20	3.85	GPRS	GSM 850	GMSK	Class12	824.2	0.0051	-2.50	2.50	Pass
-20	3.85	GPRS	GSM 850	GMSK	Class12	836.6	0.0042	-2.50	2.50	Pass
-20	3.85	GPRS	GSM 850	GMSK	Class12	848.8	0.0032	-2.50	2.50	Pass
-20	4.24	GPRS	GSM 850	GMSK	Class12	824.2	0.0005	-2.50	2.50	Pass
-20	4.24	GPRS	GSM 850	GMSK	Class12	836.6	0.0053	-2.50	2.50	Pass
-20	4.24	GPRS	GSM 850	GMSK	Class12	848.8	0.0046	-2.50	2.50	Pass
-10	3.47	GPRS	GSM 850	GMSK	Class12	824.2	0.0051	-2.50	2.50	Pass
-10	3.47	GPRS	GSM 850	GMSK	Class12	836.6	0.0018	-2.50	2.50	Pass
-10	3.47	GPRS	GSM 850	GMSK	Class12	848.8	0.0067	-2.50	2.50	Pass
-10	3.85	GPRS	GSM 850	GMSK	Class12	824.2	0.0012	-2.50	2.50	Pass
-10	3.85	GPRS	GSM 850	GMSK	Class12	836.6	0.0014	-2.50	2.50	Pass
-10	3.85	GPRS	GSM 850	GMSK	Class12	848.8	0.0028	-2.50	2.50	Pass
-10	4.24	GPRS	GSM 850	GMSK	Class12	824.2	0.0024	-2.50	2.50	Pass
-10	4.24	GPRS	GSM 850	GMSK	Class12	836.6	0.0056	-2.50	2.50	Pass
-10	4.24	GPRS	GSM 850	GMSK	Class12	848.8	0.0040	-2.50	2.50	Pass
0	3.47	GPRS	GSM 850	GMSK	Class12	824.2	0.0005	-2.50	2.50	Pass
0	3.47	GPRS	GSM 850	GMSK	Class12	836.6	0.0043	-2.50	2.50	Pass
0	3.47	GPRS	GSM 850	GMSK	Class12	848.8	0.0046	-2.50	2.50	Pass
0	3.85	GPRS	GSM 850	GMSK	Class12	824.2	0.0019	-2.50	2.50	Pass
0	3.85	GPRS	GSM 850	GMSK	Class12	836.6	0.0018	-2.50	2.50	Pass
0	3.85	GPRS	GSM 850	GMSK	Class12	848.8	0.0062	-2.50	2.50	Pass
0	4.24	GPRS	GSM	GMSK	Class12	824.2	0.0040	-2.50	2.50	Pass

			850							
0	4.24	GPRS	GSM 850	GMSK	Class12	836.6	0.0026	-2.50	2.50	Pass
0	4.24	GPRS	GSM 850	GMSK	Class12	848.8	0.0055	-2.50	2.50	Pass
10	3.47	GPRS	GSM 850	GMSK	Class12	824.2	0.0019	-2.50	2.50	Pass
10	3.47	GPRS	GSM 850	GMSK	Class12	836.6	0.0061	-2.50	2.50	Pass
10	3.47	GPRS	GSM 850	GMSK	Class12	848.8	0.0042	-2.50	2.50	Pass
10	3.85	GPRS	GSM 850	GMSK	Class12	824.2	0.0059	-2.50	2.50	Pass
10	3.85	GPRS	GSM 850	GMSK	Class12	836.6	0.0047	-2.50	2.50	Pass
10	3.85	GPRS	GSM 850	GMSK	Class12	848.8	0.0043	-2.50	2.50	Pass
10	4.24	GPRS	GSM 850	GMSK	Class12	824.2	0.0017	-2.50	2.50	Pass
10	4.24	GPRS	GSM 850	GMSK	Class12	836.6	0.0027	-2.50	2.50	Pass
10	4.24	GPRS	GSM 850	GMSK	Class12	848.8	0.0059	-2.50	2.50	Pass
20	3.47	GPRS	GSM 850	GMSK	Class12	824.2	0.0017	-2.50	2.50	Pass
20	3.47	GPRS	GSM 850	GMSK	Class12	836.6	0.0055	-2.50	2.50	Pass
20	3.47	GPRS	GSM 850	GMSK	Class12	848.8	0.0046	-2.50	2.50	Pass
20	3.85	GPRS	GSM 850	GMSK	Class12	824.2	0.0027	-2.50	2.50	Pass
20	3.85	GPRS	GSM 850	GMSK	Class12	836.6	0.0054	-2.50	2.50	Pass
20	3.85	GPRS	GSM 850	GMSK	Class12	848.8	0.0044	-2.50	2.50	Pass
20	4.24	GPRS	GSM 850	GMSK	Class12	824.2	0.0053	-2.50	2.50	Pass
20	4.24	GPRS	GSM 850	GMSK	Class12	836.6	-0.0001	-2.50	2.50	Pass
20	4.24	GPRS	GSM 850	GMSK	Class12	848.8	0.0033	-2.50	2.50	Pass
30	3.47	GPRS	GSM 850	GMSK	Class12	824.2	0.0016	-2.50	2.50	Pass
30	3.47	GPRS	GSM 850	GMSK	Class12	836.6	0.0065	-2.50	2.50	Pass
30	3.47	GPRS	GSM 850	GMSK	Class12	848.8	0.0055	-2.50	2.50	Pass
30	3.85	GPRS	GSM 850	GMSK	Class12	824.2	0.0028	-2.50	2.50	Pass
30	3.85	GPRS	GSM 850	GMSK	Class12	836.6	0.0071	-2.50	2.50	Pass
30	3.85	GPRS	GSM 850	GMSK	Class12	848.8	0.0036	-2.50	2.50	Pass
30	4.24	GPRS	GSM 850	GMSK	Class12	824.2	0.0041	-2.50	2.50	Pass
30	4.24	GPRS	GSM 850	GMSK	Class12	836.6	0.0075	-2.50	2.50	Pass
30	4.24	GPRS	GSM 850	GMSK	Class12	848.8	0.0045	-2.50	2.50	Pass
40	3.47	GPRS	GSM 850	GMSK	Class12	824.2	0.0072	-2.50	2.50	Pass
40	3.47	GPRS	GSM 850	GMSK	Class12	836.6	0.0013	-2.50	2.50	Pass
40	3.47	GPRS	GSM 850	GMSK	Class12	848.8	0.0030	-2.50	2.50	Pass
40	3.85	GPRS	GSM 850	GMSK	Class12	824.2	0.0040	-2.50	2.50	Pass
40	3.85	GPRS	GSM 850	GMSK	Class12	836.6	0.0041	-2.50	2.50	Pass
40	3.85	GPRS	GSM 850	GMSK	Class12	848.8	0.0047	-2.50	2.50	Pass
40	4.24	GPRS	GSM 850	GMSK	Class12	824.2	0.0018	-2.50	2.50	Pass
40	4.24	GPRS	GSM 850	GMSK	Class12	836.6	0.0039	-2.50	2.50	Pass
40	4.24	GPRS	GSM 850	GMSK	Class12	848.8	0.0037	-2.50	2.50	Pass

50	3.47	GPRS	GSM 850	GMSK	Class12	824.2	0.0021	-2.50	2.50	Pass
50	3.47	GPRS	GSM 850	GMSK	Class12	836.6	0.0010	-2.50	2.50	Pass
50	3.47	GPRS	GSM 850	GMSK	Class12	848.8	0.0028	-2.50	2.50	Pass
50	3.85	GPRS	GSM 850	GMSK	Class12	824.2	0.0030	-2.50	2.50	Pass
50	3.85	GPRS	GSM 850	GMSK	Class12	836.6	0.0037	-2.50	2.50	Pass
50	3.85	GPRS	GSM 850	GMSK	Class12	848.8	0.0064	-2.50	2.50	Pass
50	4.24	GPRS	GSM 850	GMSK	Class12	824.2	0.0003	-2.50	2.50	Pass
50	4.24	GPRS	GSM 850	GMSK	Class12	836.6	0.0019	-2.50	2.50	Pass
50	4.24	GPRS	GSM 850	GMSK	Class12	848.8	0.0038	-2.50	2.50	Pass