

WCDMA Band 5 Test Data

FCC ID: 2BLBN-SMART

Table of Contents

- 1. Conducted Output Power&&EIRP/ERP.....2
- 2. Occupied Bandwidth3
- 3. Peak to Average Ratio.....5
- 4. Unwanted Spurious Emission7
- 5. Frequency Stability11

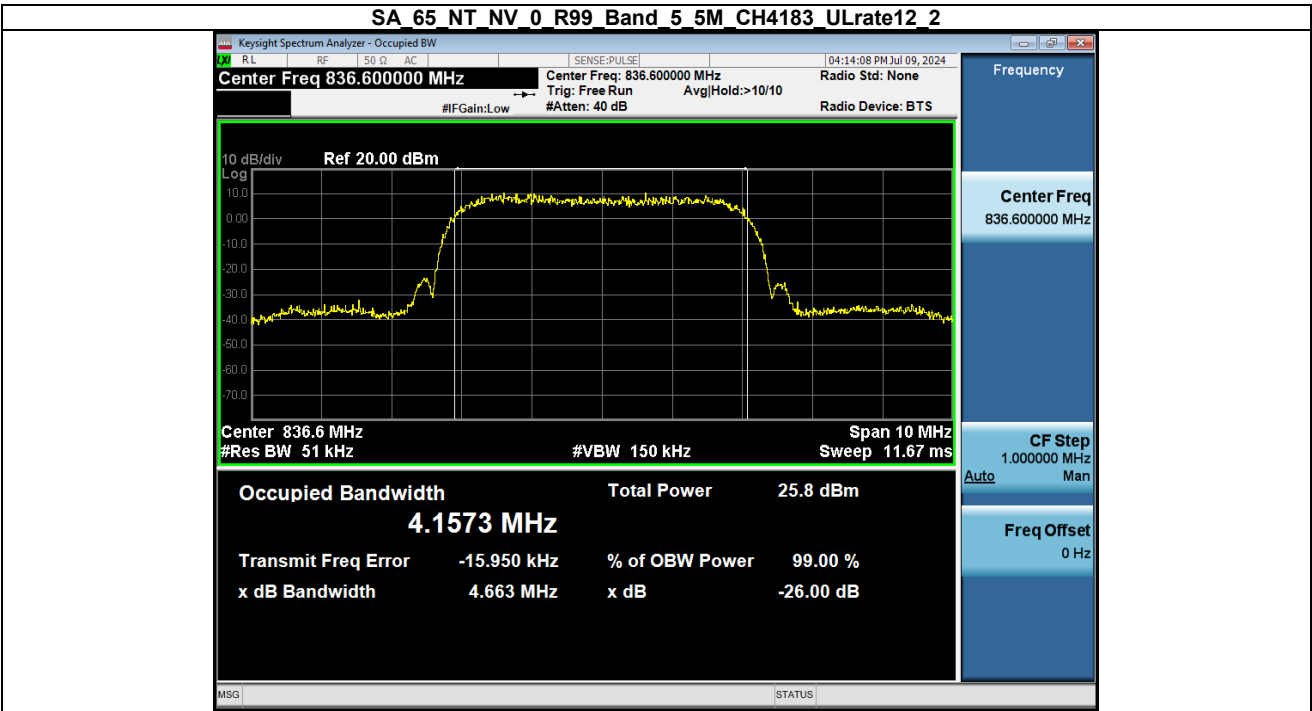
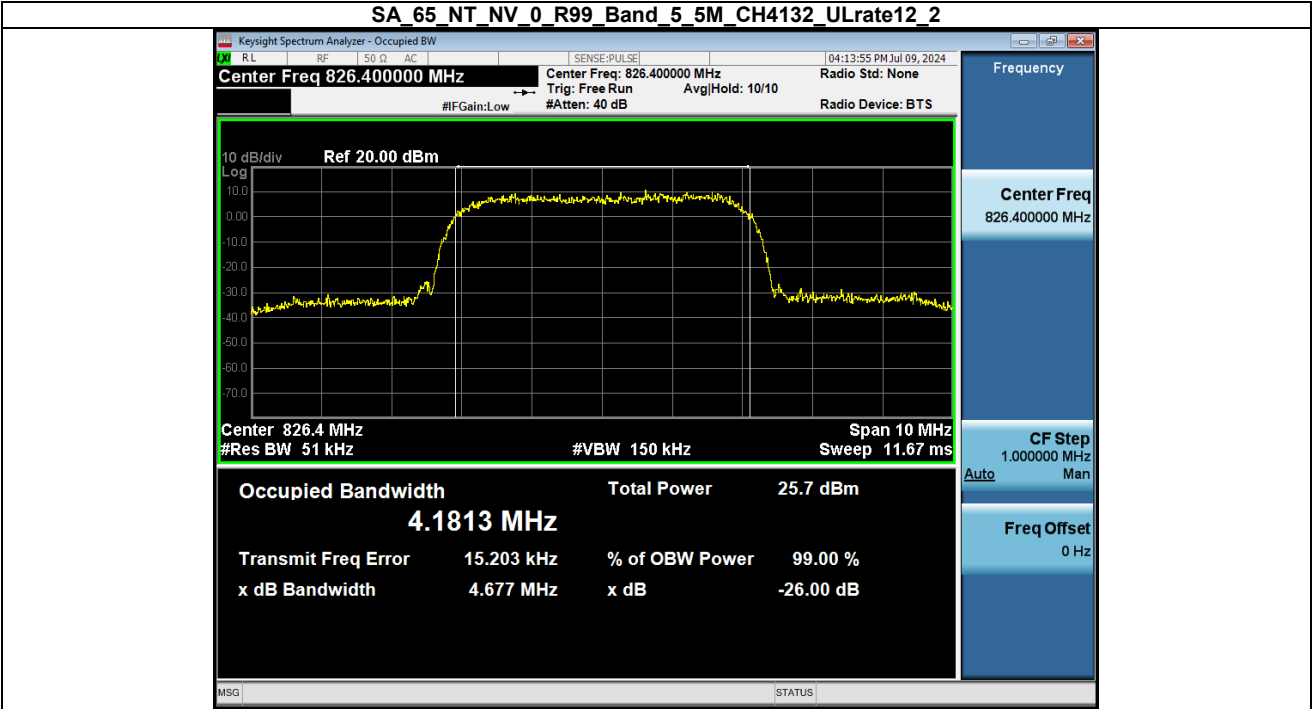
1. Conducted Output Power&&EIRP/ERP

Condition	Mode	Band	Frequency (MHz)	UL Rate(kHz)	Conducted Power(dBm)	ANT Gain(dBi)	ERP(dBm)	limit(dBm)	Result
NVNT	R99	Band 5	826.4	12.2	23.40	0.72	21.97	38.45	Pass
NVNT	R99	Band 5	836.6	12.2	23.40	0.72	21.97	38.45	Pass
NVNT	R99	Band 5	846.6	12.2	23.53	0.72	22.10	38.45	Pass

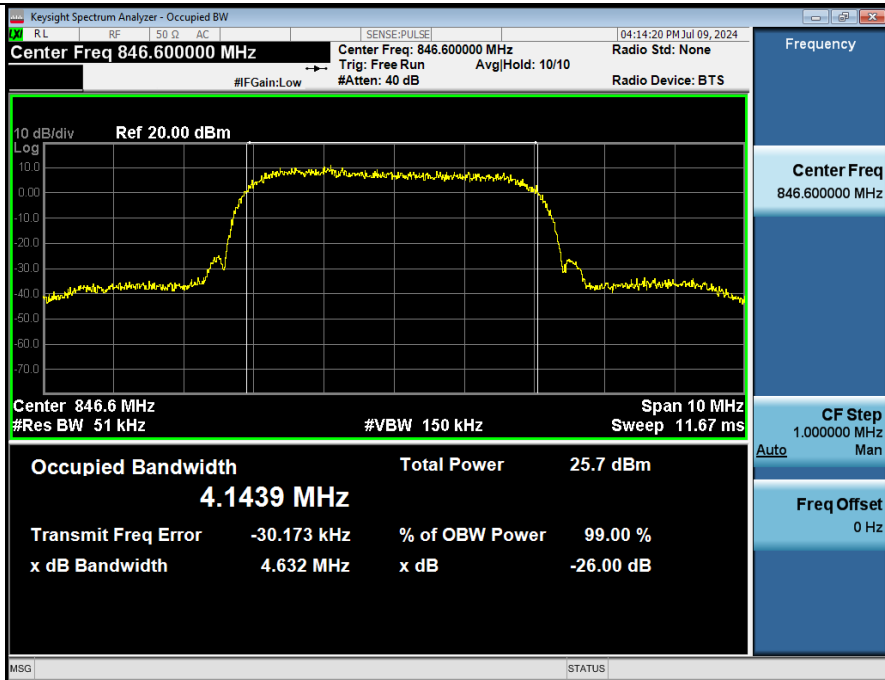
ERP = Conducted Power + ANT Gain - 2.15

2. Occupied Bandwidth

Condition	Mode	Band	Frequency(MHz)	Data Rate	OBW(MHz)	-26EBW(MHz)
NVNT	R99	Band 5	826.4	12.2	4.1813	4.6767
NVNT	R99	Band 5	836.6	12.2	4.1573	4.6632
NVNT	R99	Band 5	846.6	12.2	4.1439	4.6321

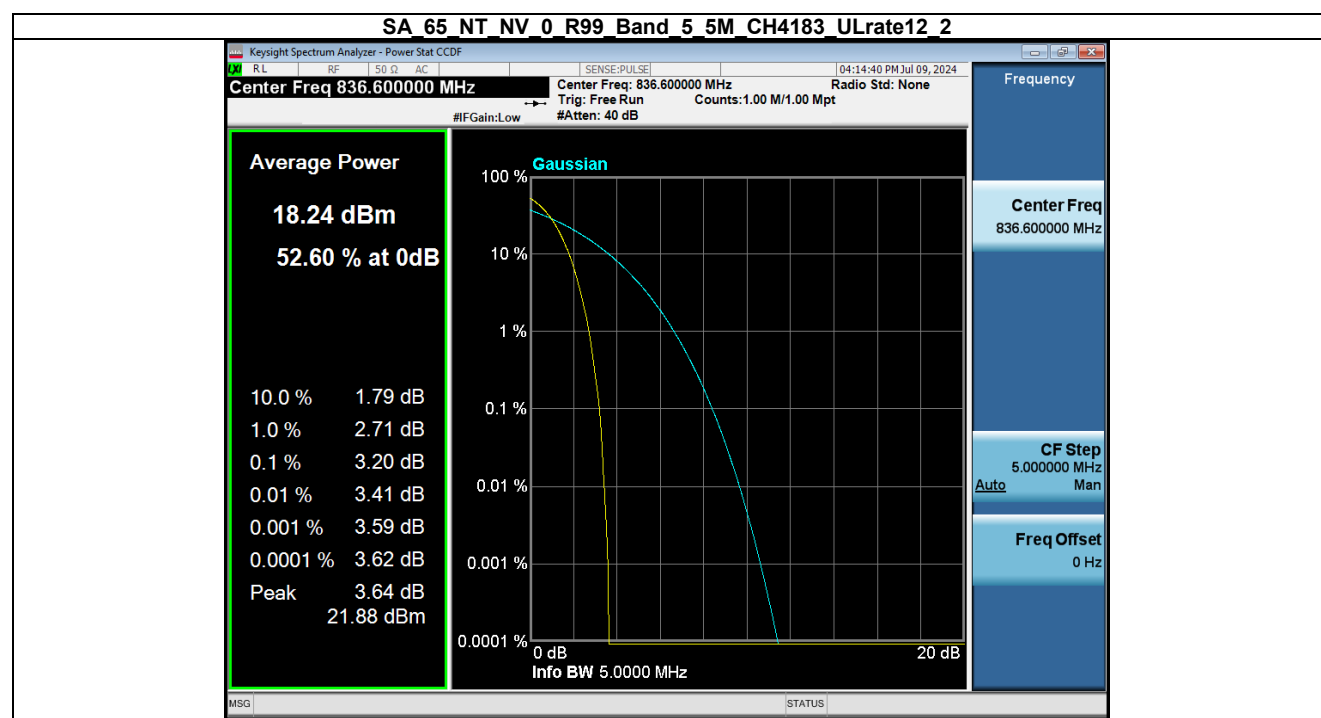
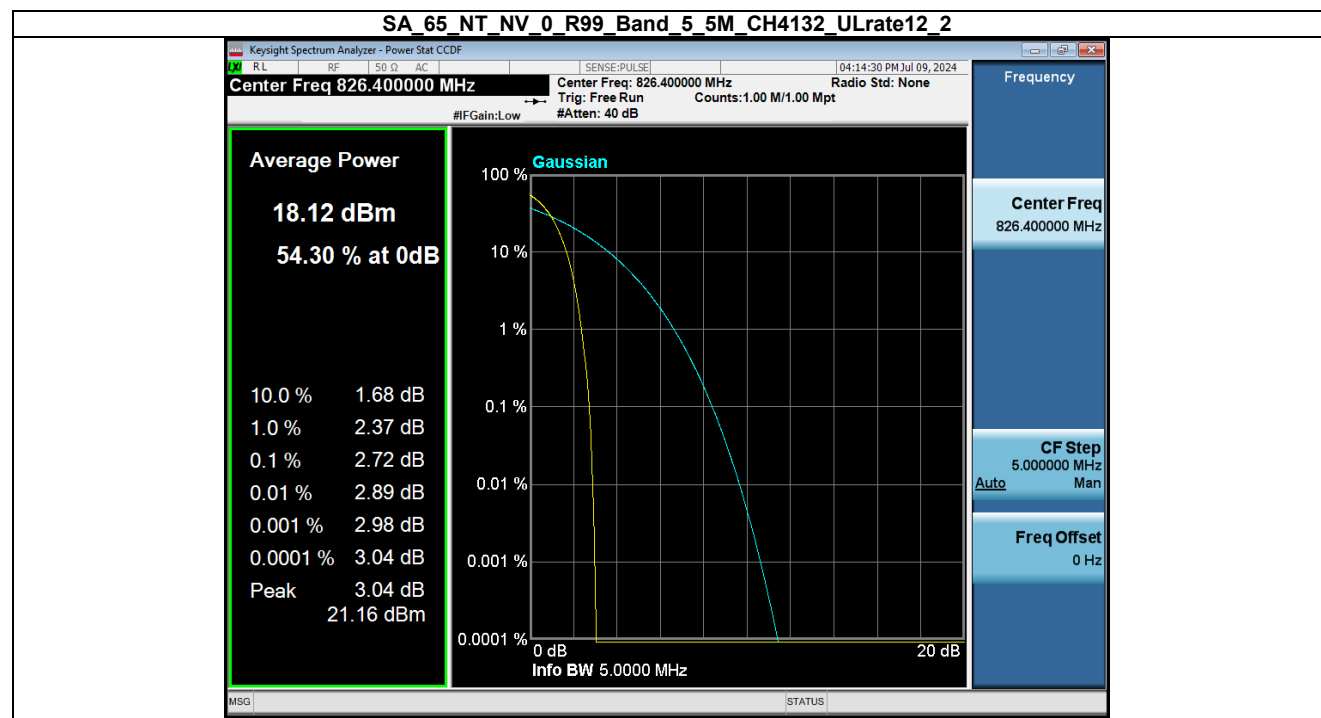


SA_65_NT_NV_0_R99_Band_5_5M_CH4233_ULrate12_2

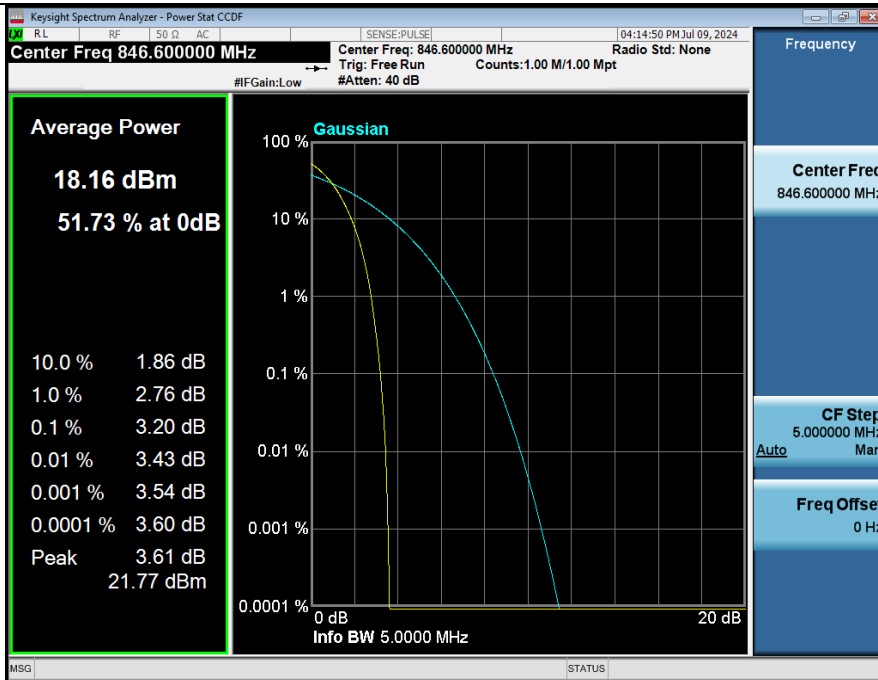


3. Peak to Average Ratio

Condition	Mode	Band	Frequency(MHz)	Data Rate	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	R99	Band 5	826.4	12.2	2.72	13.00	Pass
NVNT	R99	Band 5	836.6	12.2	3.20	13.00	Pass
NVNT	R99	Band 5	846.6	12.2	3.20	13.00	Pass



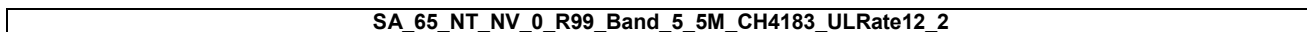
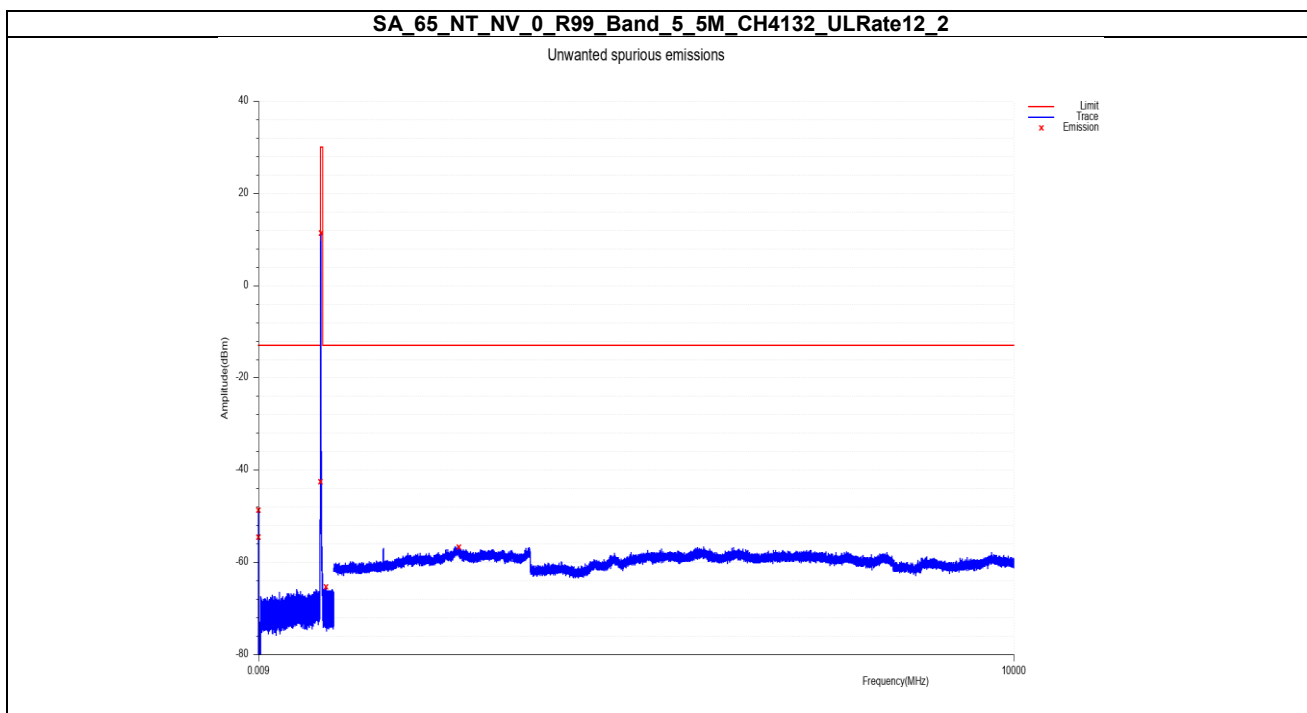
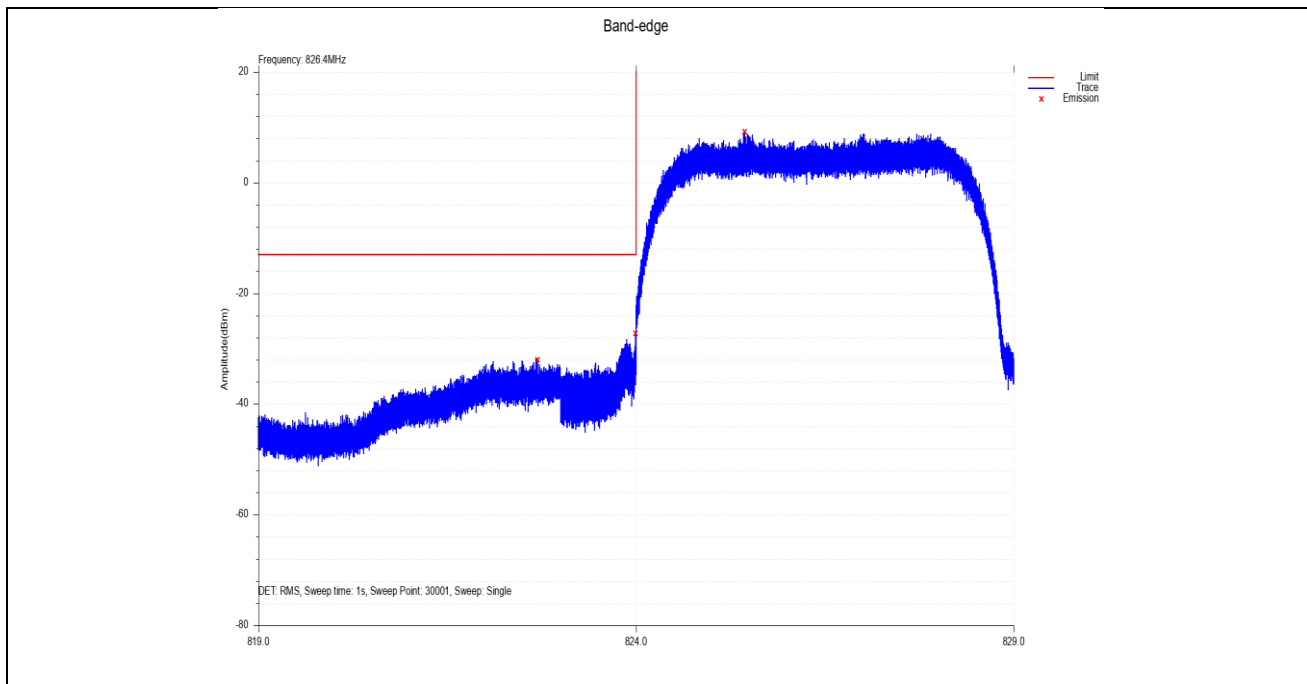
SA_65_NT_NV_0_R99_Band_5_5M_CH4233_ULrate12_2

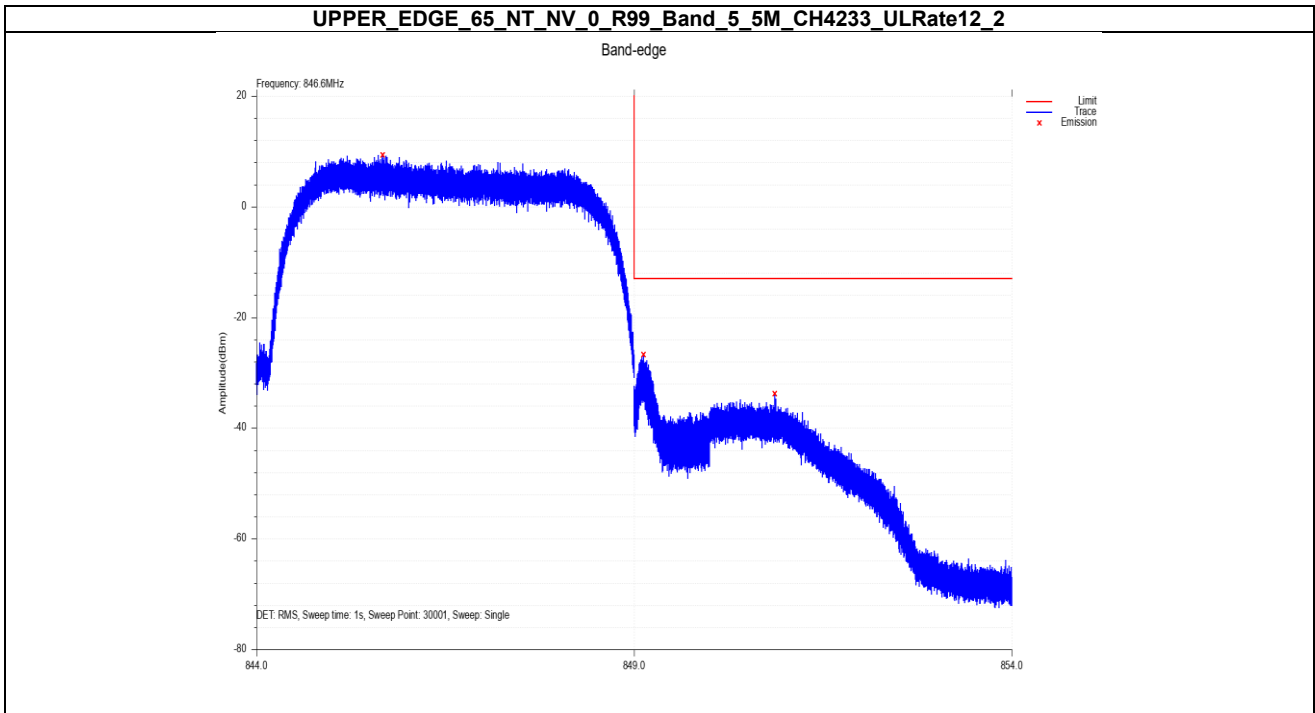
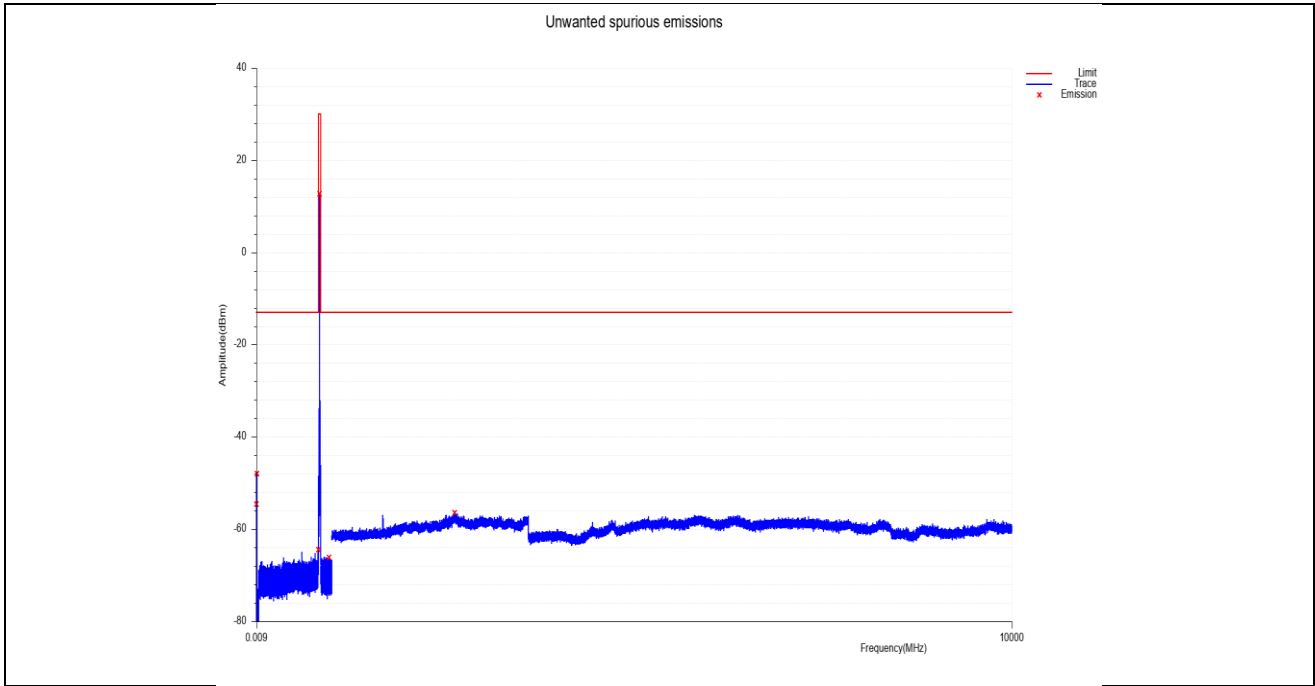


4. Unwanted Spurious Emission

Condition	Mode	Band	Frequency(MHz)	Data Rate	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	R99	Band 5	826.40	12.2	100	819.0~823.0	822.693	-31.99	-13	Pass
NVNT	R99	Band 5	826.40	12.2	50.0	823.0~824.0	823.996	-27.20	-13	Pass
NVNT	R99	Band 5	826.40	12.2	1	0.009~0.150	0.098	-54.57	-13	Pass
NVNT	R99	Band 5	826.40	12.2	10	0.150~30.000	3.477	-48.68	-13	Pass
NVNT	R99	Band 5	826.40	12.2	100	30.000~819.000	818.737	-42.54	-13	Pass
NVNT	R99	Band 5	826.40	12.2	100	854.000~1000.000	892.087	-65.32	-13	Pass
NVNT	R99	Band 5	826.40	12.2	1000	1000.000~10000.000	2652.100	-56.67	-13	Pass
NVNT	R99	Band 5	836.60	12.2	1	0.009~0.150	0.098	-54.65	-13	Pass
NVNT	R99	Band 5	836.60	12.2	10	0.150~30.000	3.694	-47.90	-13	Pass
NVNT	R99	Band 5	836.60	12.2	100	30.000~819.000	818.895	-64.47	-13	Pass
NVNT	R99	Band 5	836.60	12.2	100	854.000~1000.000	957.091	-66.09	-13	Pass
NVNT	R99	Band 5	836.60	12.2	1000	1000.000~10000.000	2626.900	-56.46	-13	Pass
NVNT	R99	Band 5	846.60	12.2	50.0	849.0~850.0	849.125	-26.76	-13	Pass
NVNT	R99	Band 5	846.60	12.2	100	850.0~854.0	850.864	-33.74	-13	Pass
NVNT	R99	Band 5	846.60	12.2	1	0.009~0.150	0.098	-54.01	-13	Pass
NVNT	R99	Band 5	846.60	12.2	10	0.150~30.000	3.640	-47.63	-13	Pass
NVNT	R99	Band 5	846.60	12.2	100	30.000~819.000	770.766	-66.01	-13	Pass
NVNT	R99	Band 5	846.60	12.2	100	854.000~1000.000	893.892	-65.26	-13	Pass
NVNT	R99	Band 5	846.60	12.2	1000	1000.000~10000.000	2537.200	-56.44	-13	Pass

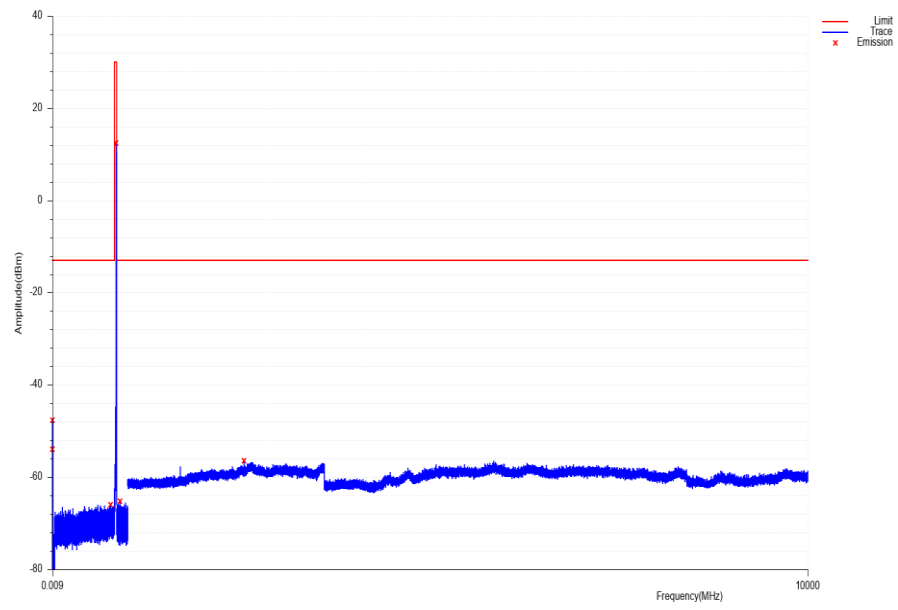
LOW_EDGE_65_NT_NV_0_R99_Band_5_5M_CH4132_ULRate12_2





SA_65_NT_NV_0_R99_Band_5_5M_CH4233_ULRate12_2

Unwanted spurious emissions



5. Frequency Stability

Temperature (°C)	Voltage (V)	Modulation	Band	Frequency (MHz)	Data Rate(kHz)	Frequency Stabilization (ppm)	Limit_Low (ppm)	Limit_Up (ppm)	Result
-30	3.47	R99	Band 5	826.4	12.2	0.0022	-2.50	2.50	Pass
-30	3.47	R99	Band 5	836.6	12.2	0.0012	-2.50	2.50	Pass
-30	3.47	R99	Band 5	846.6	12.2	0.0040	-2.50	2.50	Pass
-30	3.85	R99	Band 5	826.4	12.2	0.0065	-2.50	2.50	Pass
-30	3.85	R99	Band 5	836.6	12.2	0.0039	-2.50	2.50	Pass
-30	3.85	R99	Band 5	846.6	12.2	0.0075	-2.50	2.50	Pass
-30	4.24	R99	Band 5	826.4	12.2	0.0040	-2.50	2.50	Pass
-30	4.24	R99	Band 5	836.6	12.2	0.0029	-2.50	2.50	Pass
-30	4.24	R99	Band 5	846.6	12.2	0.0036	-2.50	2.50	Pass
-20	3.47	R99	Band 5	826.4	12.2	0.0028	-2.50	2.50	Pass
-20	3.47	R99	Band 5	836.6	12.2	0.0013	-2.50	2.50	Pass
-20	3.47	R99	Band 5	846.6	12.2	0.0062	-2.50	2.50	Pass
-20	3.85	R99	Band 5	826.4	12.2	0.0050	-2.50	2.50	Pass
-20	3.85	R99	Band 5	836.6	12.2	0.0049	-2.50	2.50	Pass
-20	3.85	R99	Band 5	846.6	12.2	0.0028	-2.50	2.50	Pass
-20	4.24	R99	Band 5	826.4	12.2	0.0010	-2.50	2.50	Pass
-20	4.24	R99	Band 5	836.6	12.2	0.0052	-2.50	2.50	Pass
-20	4.24	R99	Band 5	846.6	12.2	0.0052	-2.50	2.50	Pass
-10	3.47	R99	Band 5	826.4	12.2	0.0054	-2.50	2.50	Pass
-10	3.47	R99	Band 5	836.6	12.2	0.0019	-2.50	2.50	Pass
-10	3.47	R99	Band 5	846.6	12.2	0.0068	-2.50	2.50	Pass
-10	3.85	R99	Band 5	826.4	12.2	0.0013	-2.50	2.50	Pass
-10	3.85	R99	Band 5	836.6	12.2	0.0011	-2.50	2.50	Pass
-10	3.85	R99	Band 5	846.6	12.2	0.0026	-2.50	2.50	Pass
-10	4.24	R99	Band 5	826.4	12.2	0.0022	-2.50	2.50	Pass
-10	4.24	R99	Band 5	836.6	12.2	0.0059	-2.50	2.50	Pass
-10	4.24	R99	Band 5	846.6	12.2	0.0038	-2.50	2.50	Pass
0	3.47	R99	Band 5	826.4	12.2	0.0011	-2.50	2.50	Pass
0	3.47	R99	Band 5	836.6	12.2	0.0041	-2.50	2.50	Pass
0	3.47	R99	Band 5	846.6	12.2	0.0040	-2.50	2.50	Pass
0	3.85	R99	Band 5	826.4	12.2	0.0018	-2.50	2.50	Pass
0	3.85	R99	Band 5	836.6	12.2	0.0016	-2.50	2.50	Pass
0	3.85	R99	Band 5	846.6	12.2	0.0063	-2.50	2.50	Pass
0	4.24	R99	Band 5	826.4	12.2	0.0041	-2.50	2.50	Pass
0	4.24	R99	Band 5	836.6	12.2	0.0026	-2.50	2.50	Pass
0	4.24	R99	Band 5	846.6	12.2	0.0054	-2.50	2.50	Pass
10	3.47	R99	Band 5	826.4	12.2	0.0022	-2.50	2.50	Pass
10	3.47	R99	Band 5	836.6	12.2	0.0062	-2.50	2.50	Pass
10	3.47	R99	Band 5	846.6	12.2	0.0041	-2.50	2.50	Pass
10	3.85	R99	Band 5	826.4	12.2	0.0054	-2.50	2.50	Pass
10	3.85	R99	Band 5	836.6	12.2	0.0049	-2.50	2.50	Pass
10	3.85	R99	Band 5	846.6	12.2	0.0044	-2.50	2.50	Pass
10	4.24	R99	Band 5	826.4	12.2	0.0025	-2.50	2.50	Pass
10	4.24	R99	Band 5	836.6	12.2	0.0027	-2.50	2.50	Pass
10	4.24	R99	Band 5	846.6	12.2	0.0059	-2.50	2.50	Pass
20	3.47	R99	Band 5	826.4	12.2	0.0013	-2.50	2.50	Pass
20	3.47	R99	Band 5	836.6	12.2	0.0051	-2.50	2.50	Pass
20	3.47	R99	Band 5	846.6	12.2	0.0047	-2.50	2.50	Pass
20	3.85	R99	Band 5	826.4	12.2	0.0026	-2.50	2.50	Pass
20	3.85	R99	Band 5	836.6	12.2	0.0057	-2.50	2.50	Pass
20	3.85	R99	Band 5	846.6	12.2	0.0042	-2.50	2.50	Pass
20	4.24	R99	Band 5	826.4	12.2	0.0054	-2.50	2.50	Pass
20	4.24	R99	Band 5	836.6	12.2	0.0004	-2.50	2.50	Pass
20	4.24	R99	Band 5	846.6	12.2	0.0029	-2.50	2.50	Pass
30	3.47	R99	Band 5	826.4	12.2	0.0017	-2.50	2.50	Pass
30	3.47	R99	Band 5	836.6	12.2	0.0068	-2.50	2.50	Pass
30	3.47	R99	Band 5	846.6	12.2	0.0056	-2.50	2.50	Pass
30	3.85	R99	Band 5	826.4	12.2	0.0032	-2.50	2.50	Pass
30	3.85	R99	Band 5	836.6	12.2	0.0069	-2.50	2.50	Pass
30	3.85	R99	Band 5	846.6	12.2	0.0032	-2.50	2.50	Pass
30	4.24	R99	Band 5	826.4	12.2	0.0035	-2.50	2.50	Pass
30	4.24	R99	Band 5	836.6	12.2	0.0073	-2.50	2.50	Pass
30	4.24	R99	Band 5	846.6	12.2	0.0050	-2.50	2.50	Pass
40	3.47	R99	Band 5	826.4	12.2	0.0065	-2.50	2.50	Pass
40	3.47	R99	Band 5	836.6	12.2	0.0019	-2.50	2.50	Pass

40	3.47	R99	Band 5	846.6	12.2	0.0024	-2.50	2.50	Pass
40	3.85	R99	Band 5	826.4	12.2	0.0043	-2.50	2.50	Pass
40	3.85	R99	Band 5	836.6	12.2	0.0036	-2.50	2.50	Pass
40	3.85	R99	Band 5	846.6	12.2	0.0040	-2.50	2.50	Pass
40	4.24	R99	Band 5	826.4	12.2	0.0020	-2.50	2.50	Pass
40	4.24	R99	Band 5	836.6	12.2	0.0040	-2.50	2.50	Pass
40	4.24	R99	Band 5	846.6	12.2	0.0037	-2.50	2.50	Pass
50	3.47	R99	Band 5	826.4	12.2	0.0020	-2.50	2.50	Pass
50	3.47	R99	Band 5	836.6	12.2	0.0012	-2.50	2.50	Pass
50	3.47	R99	Band 5	846.6	12.2	0.0027	-2.50	2.50	Pass
50	3.85	R99	Band 5	826.4	12.2	0.0021	-2.50	2.50	Pass
50	3.85	R99	Band 5	836.6	12.2	0.0040	-2.50	2.50	Pass
50	3.85	R99	Band 5	846.6	12.2	0.0056	-2.50	2.50	Pass
50	4.24	R99	Band 5	826.4	12.2	0.0000	-2.50	2.50	Pass
50	4.24	R99	Band 5	836.6	12.2	0.0019	-2.50	2.50	Pass
50	4.24	R99	Band 5	846.6	12.2	0.0038	-2.50	2.50	Pass