

WCDMA Band 2 HSDPA Test Data

FCC ID: 2BLBN-SMART

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

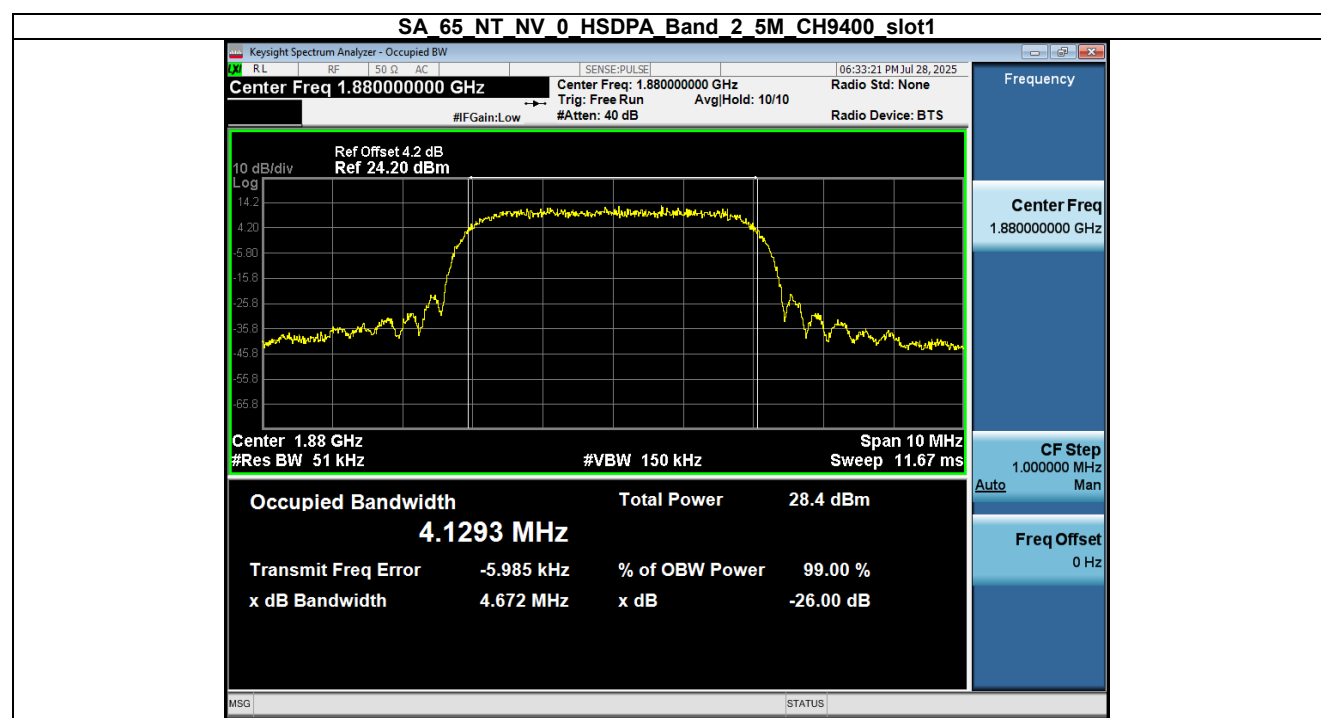
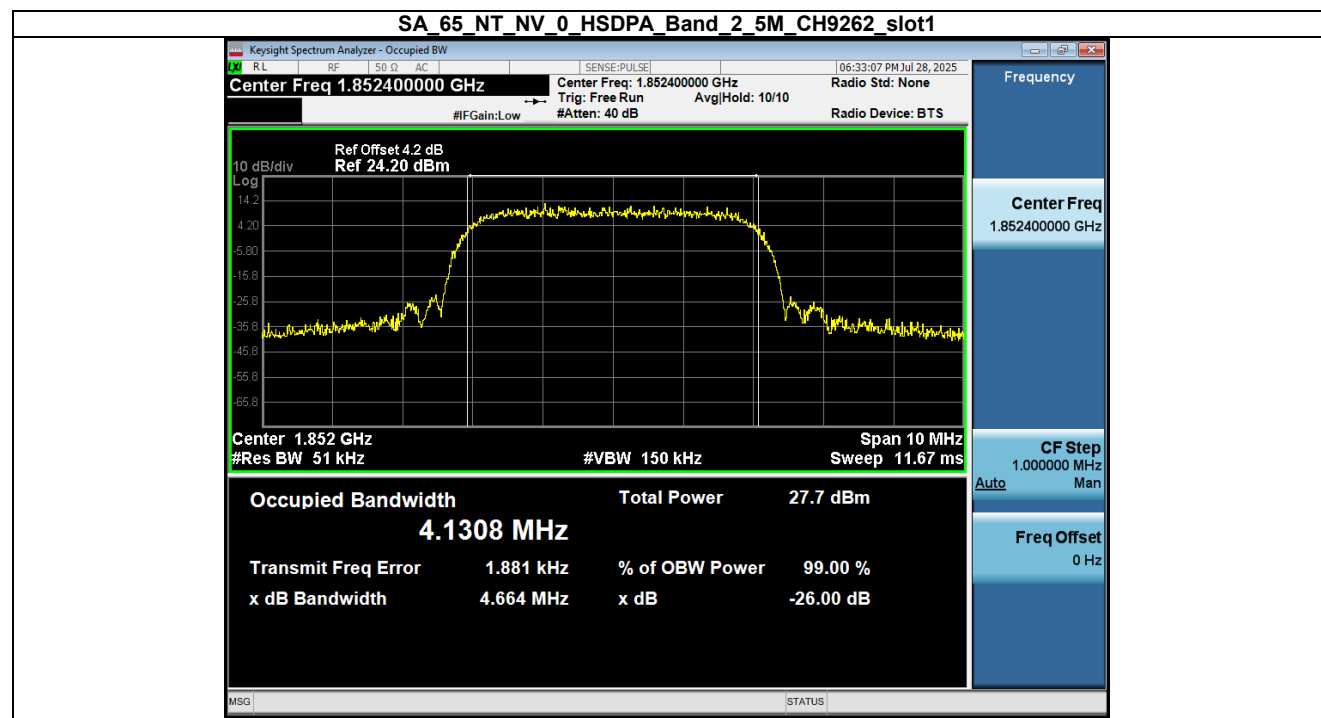
1. Conducted Output Power&&EIRP/ERP

Condition	Mode	Band	Frequency (MHz)	Sub	Conducted Power(dBm)	ANT Gain(dBi)	EIRP(dBm)	limit(dBm)	Result
NVNT	HSDPA	Band 2	1852.4	1	21.42	1.73	23.15	33.01	Pass
NVNT	HSDPA	Band 2	1852.4	2	22.43	1.73	24.16	33.01	Pass
NVNT	HSDPA	Band 2	1852.4	3	22.78	1.73	24.51	33.01	Pass
NVNT	HSDPA	Band 2	1852.4	4	22.38	1.73	24.11	33.01	Pass
NVNT	HSDPA	Band 2	1880.0	1	22.76	1.73	24.49	33.01	Pass
NVNT	HSDPA	Band 2	1880.0	2	22.21	1.73	23.94	33.01	Pass
NVNT	HSDPA	Band 2	1880.0	3	22.94	1.73	24.67	33.01	Pass
NVNT	HSDPA	Band 2	1880.0	4	22.58	1.73	24.31	33.01	Pass
NVNT	HSDPA	Band 2	1907.6	1	22.54	1.73	24.27	33.01	Pass
NVNT	HSDPA	Band 2	1907.6	2	22.09	1.73	23.82	33.01	Pass
NVNT	HSDPA	Band 2	1907.6	3	22.60	1.73	24.33	33.01	Pass
NVNT	HSDPA	Band 2	1907.6	4	22.20	1.73	24.93	33.01	Pass

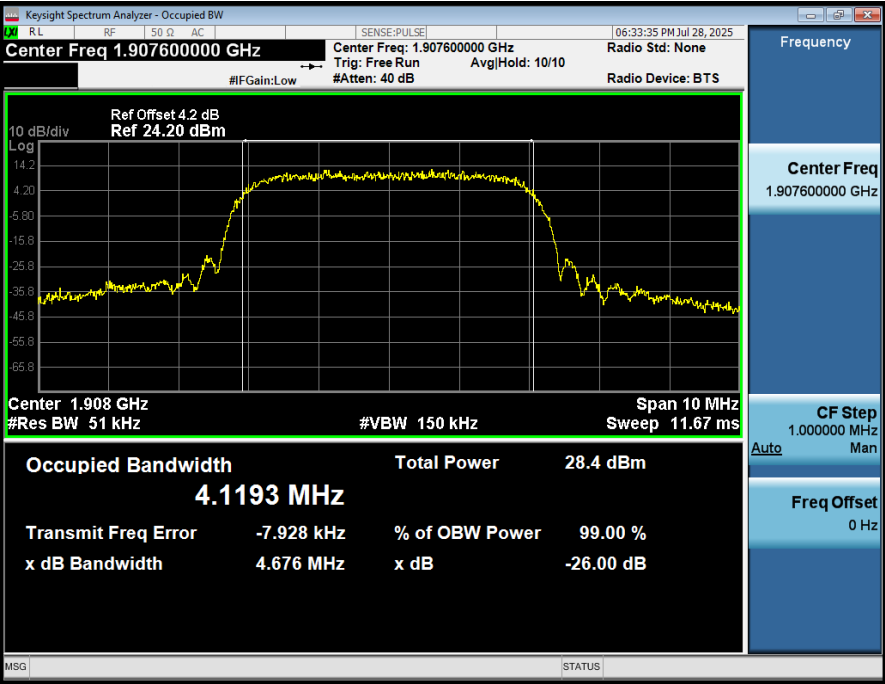
EIRP = Conducted Power + ANT Gain

2. Occupied Bandwidth

Condition	Mode	Band	Frequency(MHz)	Sub	OBW(MHz)	-26EBW(MHz)
NVNT	HSDPA	Band 2	1852.4	1	4.1308	4.6641
NVNT	HSDPA	Band 2	1880.0	1	4.1293	4.6723
NVNT	HSDPA	Band 2	1907.6	1	4.1193	4.6756

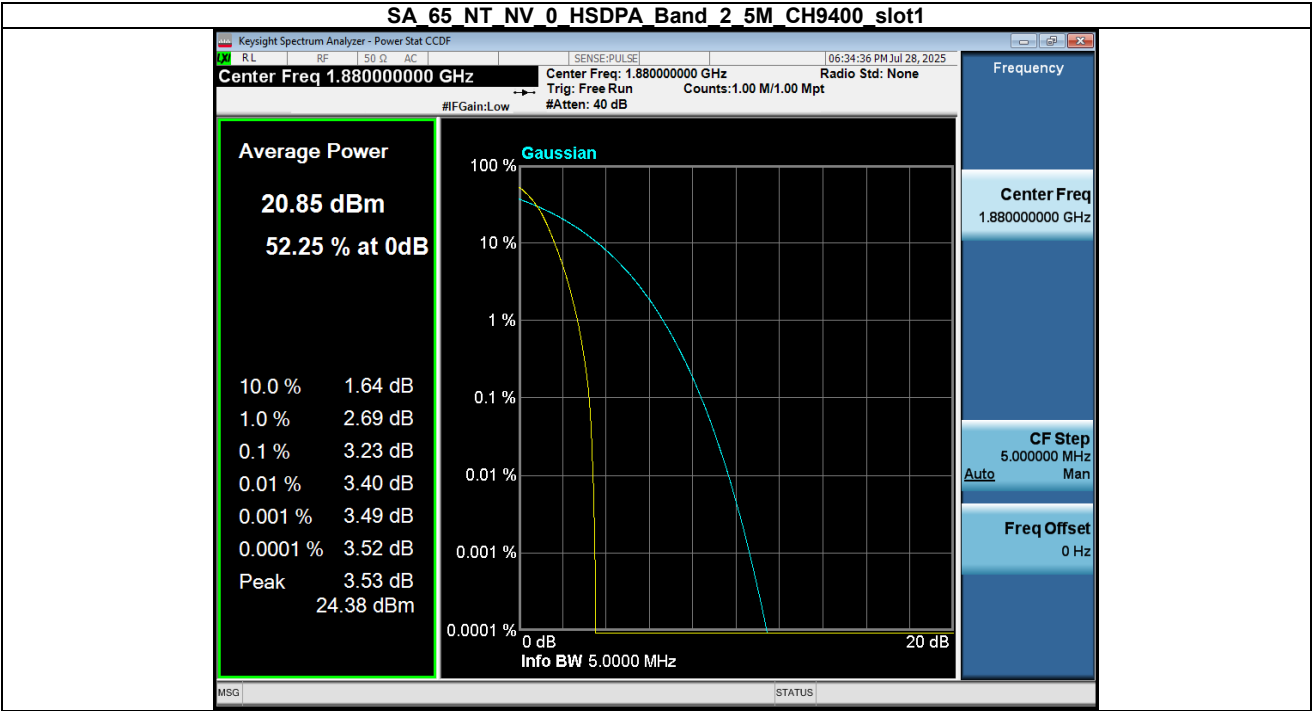
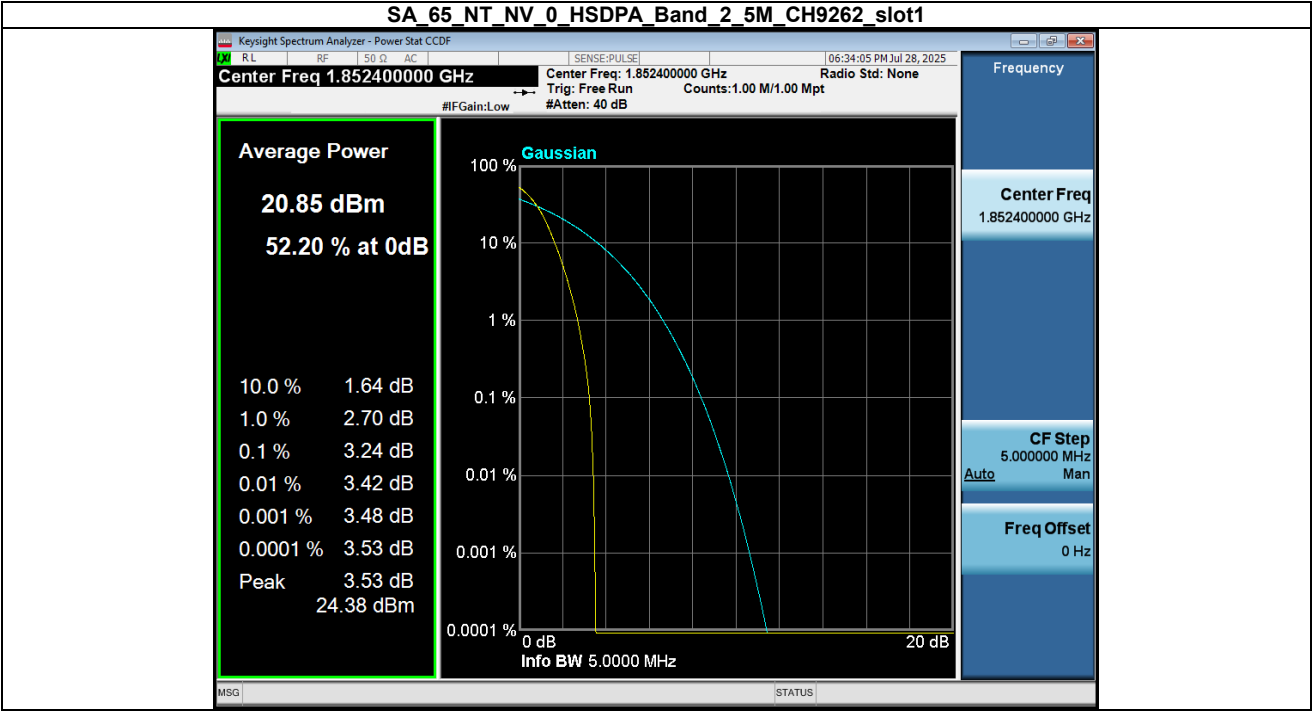


SA_65_NT_NV_0_HSDPA_Band_2_5M_CH9538_slot1

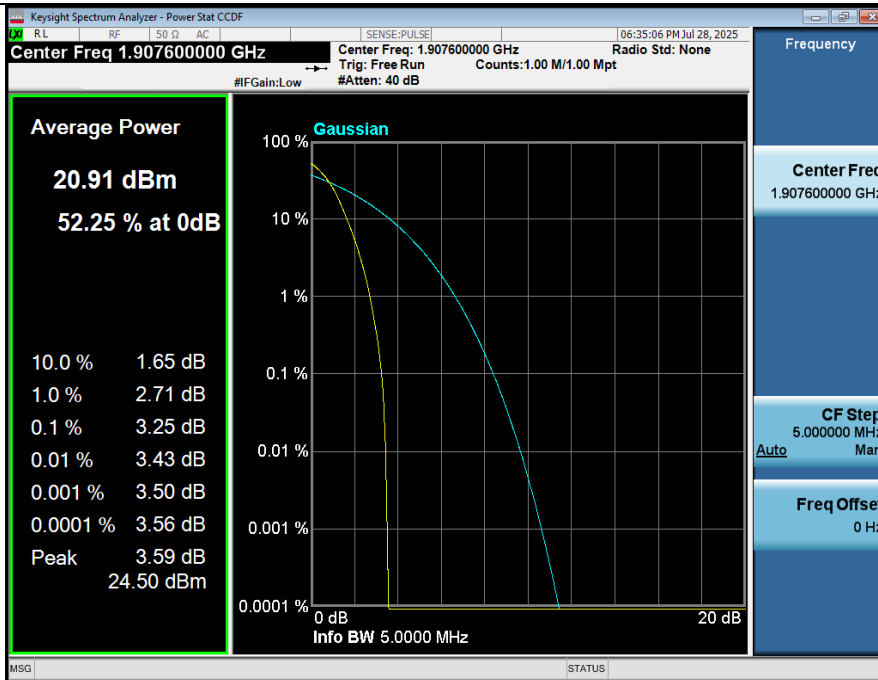


3. Peak to Average Ratio

Condition	Mode	Band	Frequency(MHz)	Sub	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	HSDPA	Band 2	1852.4	1	3.24	13.00	Pass
NVNT	HSDPA	Band 2	1880.0	1	3.23	13.00	Pass
NVNT	HSDPA	Band 2	1907.6	1	3.25	13.00	Pass

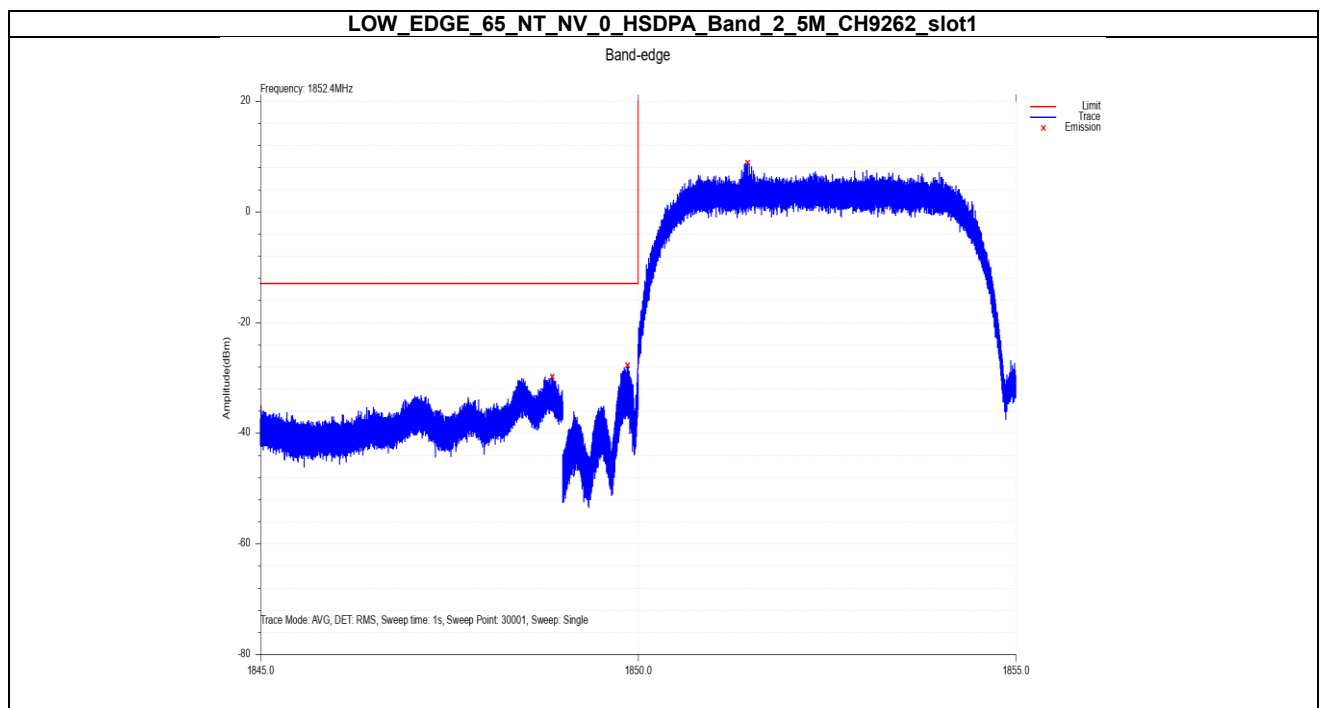


SA_65_NT_NV_0_HSDPA_Band_2_5M_CH9538_slot1



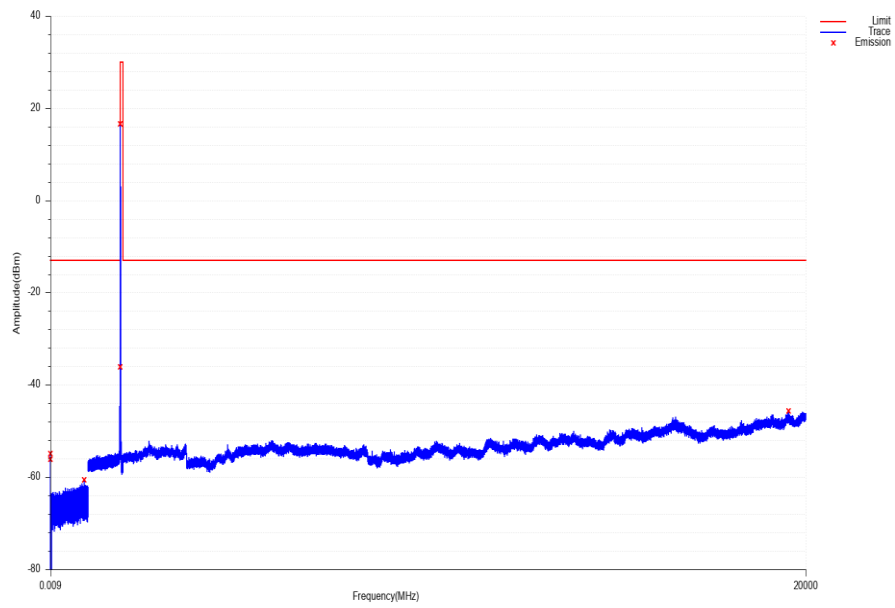
4. Unwanted Spurious Emission

Condition	Mode	Band	Frequency(MHz)	Sub	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	HSDPA	Band 2	1852.40	1	1000	1845.0~1849.0	1848.865	-29.83	-13	Pass
NVNT	HSDPA	Band 2	1852.40	1	50.0	1849.0~1850.0	1849.859	-27.74	-13	Pass
NVNT	HSDPA	Band 2	1852.40	1	1	0.009~0.150	0.012	-54.93	-13	Pass
NVNT	HSDPA	Band 2	1852.40	1	10	0.150~30.000	0.153	-56.18	-13	Pass
NVNT	HSDPA	Band 2	1852.40	1	100	30.000~1000.000	900.769	-60.54	-13	Pass
NVNT	HSDPA	Band 2	1852.40	1	1000	1000.000~1845.000	1844.746	-36.15	-13	Pass
NVNT	HSDPA	Band 2	1852.40	1	1000	1915.000~20000.000	19540.038	-45.65	-13	Pass
NVNT	HSDPA	Band 2	1880.00	1	1	0.009~0.150	0.012	-55.11	-13	Pass
NVNT	HSDPA	Band 2	1880.00	1	10	0.150~30.000	0.153	-56.15	-13	Pass
NVNT	HSDPA	Band 2	1880.00	1	100	30.000~1000.000	609.381	-61.21	-13	Pass
NVNT	HSDPA	Band 2	1880.00	1	1000	1000.000~1845.000	1843.000	-54.07	-13	Pass
NVNT	HSDPA	Band 2	1880.00	1	1000	1915.000~20000.000	19905.355	-46.06	-13	Pass
NVNT	HSDPA	Band 2	1907.60	1	50.0	1910.0~1911.0	1910.137	-27.83	-13	Pass
NVNT	HSDPA	Band 2	1907.60	1	1000	1911.0~1915.0	1911.179	-30.45	-13	Pass
NVNT	HSDPA	Band 2	1907.60	1	1	0.009~0.150	0.010	-53.17	-13	Pass
NVNT	HSDPA	Band 2	1907.60	1	10	0.150~30.000	0.166	-56.52	-13	Pass
NVNT	HSDPA	Band 2	1907.60	1	100	30.000~1000.000	746.248	-61.17	-13	Pass
NVNT	HSDPA	Band 2	1907.60	1	1000	1000.000~1845.000	1843.535	-54.54	-13	Pass
NVNT	HSDPA	Band 2	1907.60	1	1000	1915.000~20000.000	1915.000	-41.00	-13	Pass



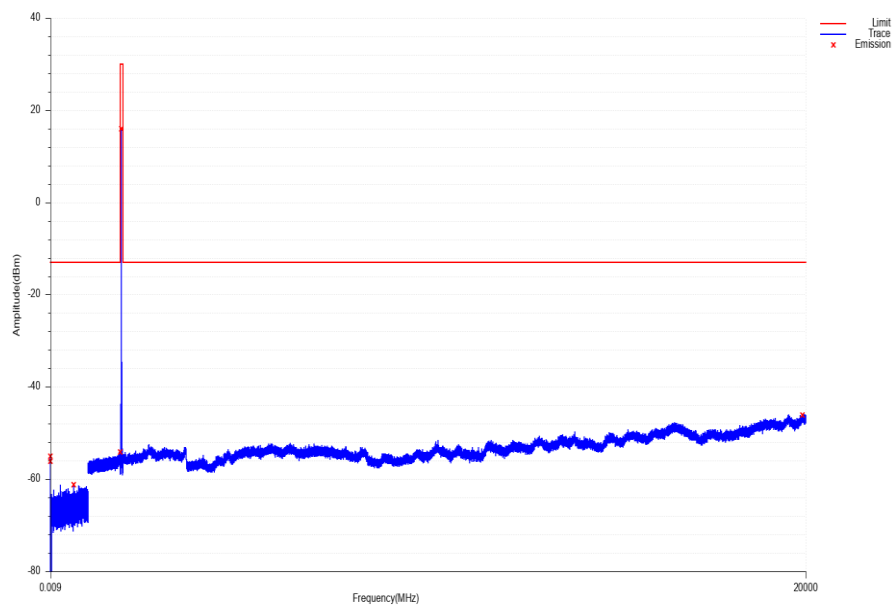
SA_65_NT_NV_0_HSDPA_Band_2_5M_CH9262_slot1

Unwanted spurious emissions

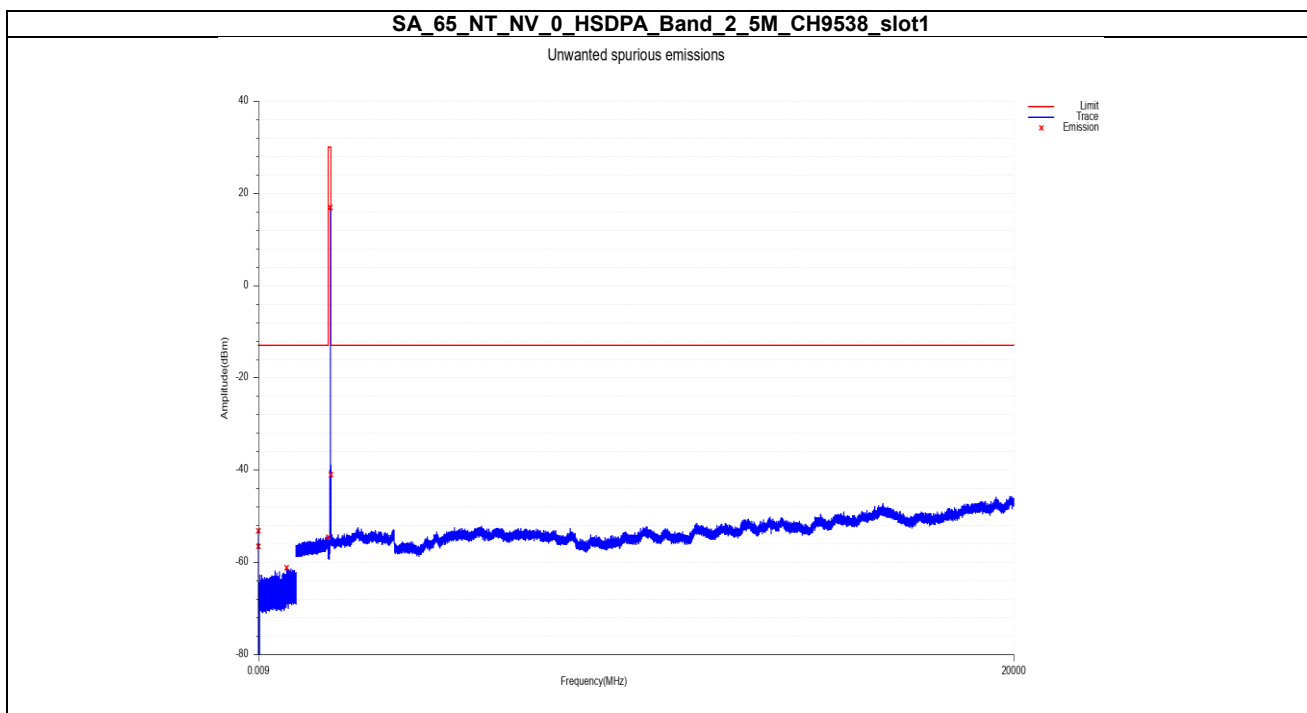
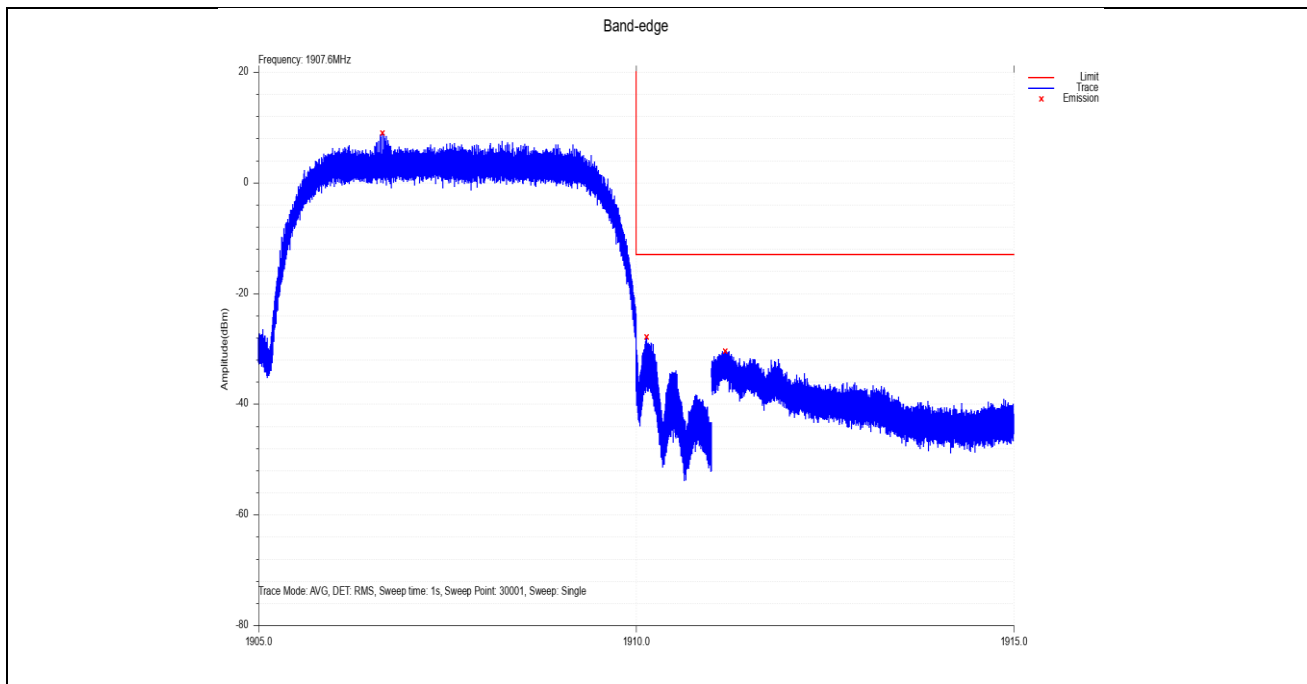


SA_65_NT_NV_0_HSDPA_Band_2_5M_CH9400_slot1

Unwanted spurious emissions



UPPER_EDGE_65_NT_NV_0_HSDPA_Band_2_5M_CH9538_slot1



5. Frequency Stability

Temperature (C)	Voltage(V)	Modulation	Band	Frequency (MHz)	Sub	Frequency Stabilization (ppm)	Limit_Low (ppm)	Limit_Up (ppm)	Result
-30	3.47	HSDPA	Band 2	1852.4	1	0.0024	-2.50	2.50	Pass
-30	3.47	HSDPA	Band 2	1880.0	1	0.0012	-2.50	2.50	Pass
-30	3.47	HSDPA	Band 2	1907.6	1	0.0041	-2.50	2.50	Pass
-30	3.85	HSDPA	Band 2	1852.4	1	0.0065	-2.50	2.50	Pass
-30	3.85	HSDPA	Band 2	1880.0	1	0.0044	-2.50	2.50	Pass
-30	3.85	HSDPA	Band 2	1907.6	1	0.0071	-2.50	2.50	Pass
-30	4.24	HSDPA	Band 2	1852.4	1	0.0042	-2.50	2.50	Pass
-30	4.24	HSDPA	Band 2	1880.0	1	0.0024	-2.50	2.50	Pass
-30	4.24	HSDPA	Band 2	1907.6	1	0.0034	-2.50	2.50	Pass
-20	3.47	HSDPA	Band 2	1852.4	1	0.0031	-2.50	2.50	Pass
-20	3.47	HSDPA	Band 2	1880.0	1	0.0007	-2.50	2.50	Pass
-20	3.47	HSDPA	Band 2	1907.6	1	0.0063	-2.50	2.50	Pass
-20	3.85	HSDPA	Band 2	1852.4	1	0.0045	-2.50	2.50	Pass
-20	3.85	HSDPA	Band 2	1880.0	1	0.0049	-2.50	2.50	Pass
-20	3.85	HSDPA	Band 2	1907.6	1	0.0027	-2.50	2.50	Pass
-20	4.24	HSDPA	Band 2	1852.4	1	0.0009	-2.50	2.50	Pass
-20	4.24	HSDPA	Band 2	1880.0	1	0.0062	-2.50	2.50	Pass
-20	4.24	HSDPA	Band 2	1907.6	1	0.0050	-2.50	2.50	Pass
-10	3.47	HSDPA	Band 2	1852.4	1	0.0051	-2.50	2.50	Pass
-10	3.47	HSDPA	Band 2	1880.0	1	0.0021	-2.50	2.50	Pass
-10	3.47	HSDPA	Band 2	1907.6	1	0.0071	-2.50	2.50	Pass
-10	3.85	HSDPA	Band 2	1852.4	1	0.0010	-2.50	2.50	Pass
-10	3.85	HSDPA	Band 2	1880.0	1	0.0013	-2.50	2.50	Pass
-10	3.85	HSDPA	Band 2	1907.6	1	0.0031	-2.50	2.50	Pass
-10	4.24	HSDPA	Band 2	1852.4	1	0.0027	-2.50	2.50	Pass
-10	4.24	HSDPA	Band 2	1880.0	1	0.0066	-2.50	2.50	Pass
-10	4.24	HSDPA	Band 2	1907.6	1	0.0036	-2.50	2.50	Pass
0	3.47	HSDPA	Band 2	1852.4	1	0.0004	-2.50	2.50	Pass
0	3.47	HSDPA	Band 2	1880.0	1	0.0037	-2.50	2.50	Pass
0	3.47	HSDPA	Band 2	1907.6	1	0.0043	-2.50	2.50	Pass
0	3.85	HSDPA	Band 2	1852.4	1	0.0021	-2.50	2.50	Pass
0	3.85	HSDPA	Band 2	1880.0	1	0.0010	-2.50	2.50	Pass
0	3.85	HSDPA	Band 2	1907.6	1	0.0066	-2.50	2.50	Pass
0	4.24	HSDPA	Band 2	1852.4	1	0.0037	-2.50	2.50	Pass
0	4.24	HSDPA	Band 2	1880.0	1	0.0026	-2.50	2.50	Pass
0	4.24	HSDPA	Band 2	1907.6	1	0.0055	-2.50	2.50	Pass
10	3.47	HSDPA	Band 2	1852.4	1	0.0025	-2.50	2.50	Pass
10	3.47	HSDPA	Band 2	1880.0	1	0.0061	-2.50	2.50	Pass
10	3.47	HSDPA	Band 2	1907.6	1	0.0034	-2.50	2.50	Pass
10	3.85	HSDPA	Band 2	1852.4	1	0.0055	-2.50	2.50	Pass
10	3.85	HSDPA	Band 2	1880.0	1	0.0044	-2.50	2.50	Pass
10	3.85	HSDPA	Band 2	1907.6	1	0.0044	-2.50	2.50	Pass
10	4.24	HSDPA	Band 2	1852.4	1	0.0022	-2.50	2.50	Pass
10	4.24	HSDPA	Band 2	1880.0	1	0.0024	-2.50	2.50	Pass
10	4.24	HSDPA	Band 2	1907.6	1	0.0058	-2.50	2.50	Pass
20	3.47	HSDPA	Band 2	1852.4	1	0.0018	-2.50	2.50	Pass
20	3.47	HSDPA	Band 2	1880.0	1	0.0050	-2.50	2.50	Pass
20	3.47	HSDPA	Band 2	1907.6	1	0.0051	-2.50	2.50	Pass
20	3.85	HSDPA	Band 2	1852.4	1	0.0020	-2.50	2.50	Pass
20	3.85	HSDPA	Band 2	1880.0	1	0.0061	-2.50	2.50	Pass
20	3.85	HSDPA	Band 2	1907.6	1	0.0037	-2.50	2.50	Pass
20	4.24	HSDPA	Band 2	1852.4	1	0.0046	-2.50	2.50	Pass
20	4.24	HSDPA	Band 2	1880.0	1	0.0001	-2.50	2.50	Pass
20	4.24	HSDPA	Band 2	1907.6	1	0.0037	-2.50	2.50	Pass
30	3.47	HSDPA	Band 2	1852.4	1	0.0018	-2.50	2.50	Pass
30	3.47	HSDPA	Band 2	1880.0	1	0.0071	-2.50	2.50	Pass
30	3.47	HSDPA	Band 2	1907.6	1	0.0053	-2.50	2.50	Pass
30	3.85	HSDPA	Band 2	1852.4	1	0.0028	-2.50	2.50	Pass
30	3.85	HSDPA	Band 2	1880.0	1	0.0075	-2.50	2.50	Pass
30	3.85	HSDPA	Band 2	1907.6	1	0.0032	-2.50	2.50	Pass
30	4.24	HSDPA	Band 2	1852.4	1	0.0034	-2.50	2.50	Pass
30	4.24	HSDPA	Band 2	1880.0	1	0.0076	-2.50	2.50	Pass
30	4.24	HSDPA	Band 2	1907.6	1	0.0051	-2.50	2.50	Pass
40	3.47	HSDPA	Band 2	1852.4	1	0.0066	-2.50	2.50	Pass
40	3.47	HSDPA	Band 2	1880.0	1	0.0012	-2.50	2.50	Pass

40	3.47	HSDPA	Band 2	1907.6	1	0.0024	-2.50	2.50	Pass
40	3.85	HSDPA	Band 2	1852.4	1	0.0035	-2.50	2.50	Pass
40	3.85	HSDPA	Band 2	1880.0	1	0.0037	-2.50	2.50	Pass
40	3.85	HSDPA	Band 2	1907.6	1	0.0043	-2.50	2.50	Pass
40	4.24	HSDPA	Band 2	1852.4	1	0.0018	-2.50	2.50	Pass
40	4.24	HSDPA	Band 2	1880.0	1	0.0036	-2.50	2.50	Pass
40	4.24	HSDPA	Band 2	1907.6	1	0.0033	-2.50	2.50	Pass
50	3.47	HSDPA	Band 2	1852.4	1	0.0024	-2.50	2.50	Pass
50	3.47	HSDPA	Band 2	1880.0	1	0.0012	-2.50	2.50	Pass
50	3.47	HSDPA	Band 2	1907.6	1	0.0023	-2.50	2.50	Pass
50	3.85	HSDPA	Band 2	1852.4	1	0.0027	-2.50	2.50	Pass
50	3.85	HSDPA	Band 2	1880.0	1	0.0041	-2.50	2.50	Pass
50	3.85	HSDPA	Band 2	1907.6	1	0.0062	-2.50	2.50	Pass
50	4.24	HSDPA	Band 2	1852.4	1	0.0001	-2.50	2.50	Pass
50	4.24	HSDPA	Band 2	1880.0	1	0.0025	-2.50	2.50	Pass
50	4.24	HSDPA	Band 2	1907.6	1	0.0029	-2.50	2.50	Pass