

WCDMA Band 2 HSUPA 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

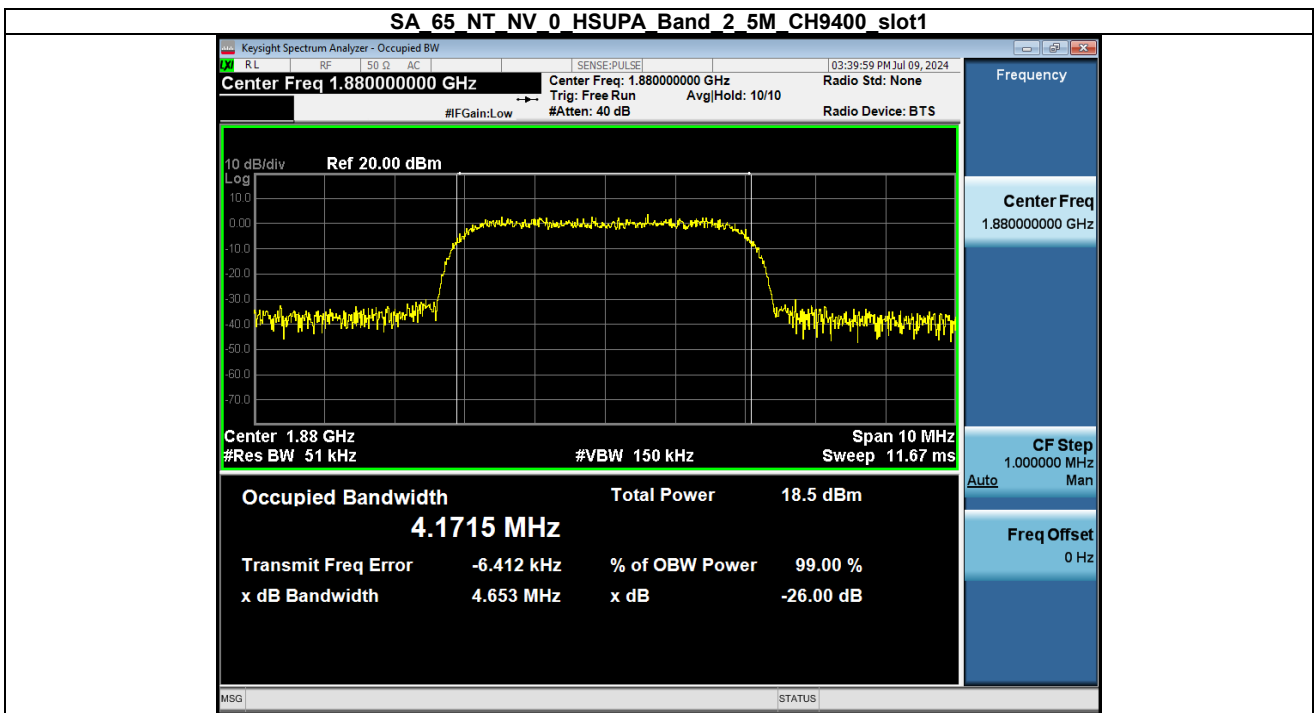
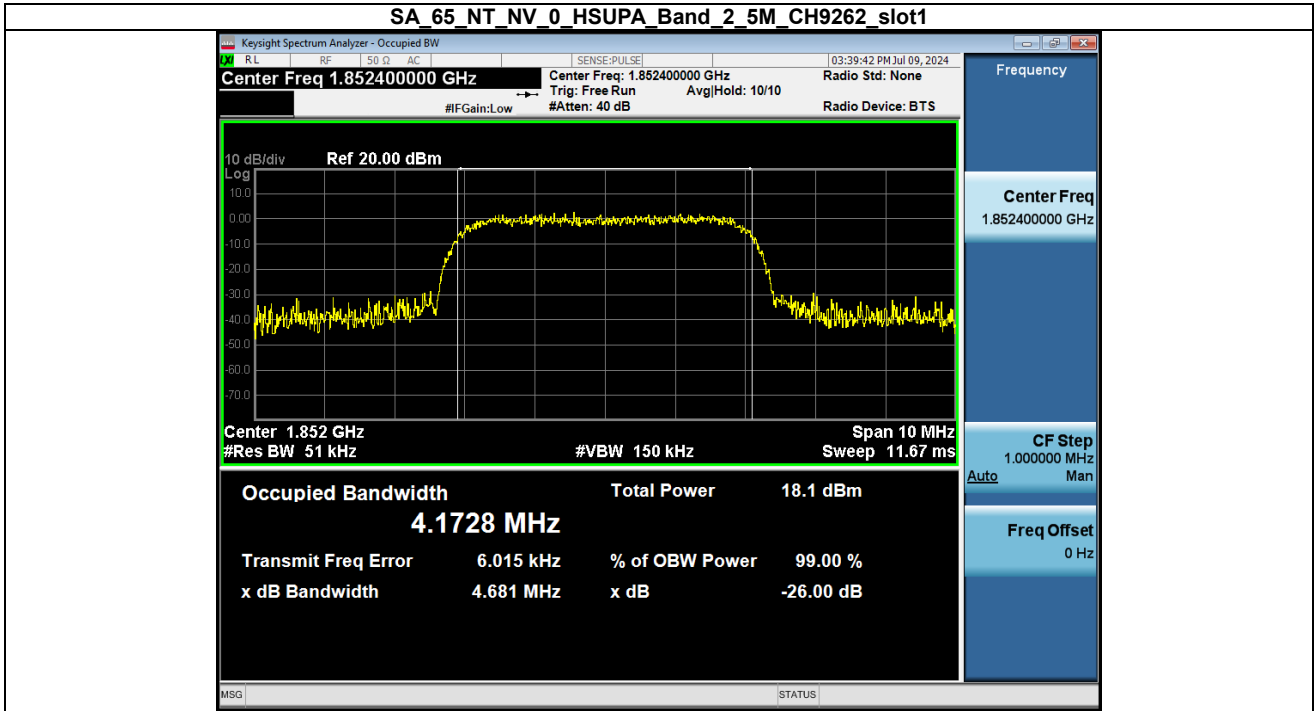
1. Conducted Output Power&&EIRP/ERP

Condition	Mode	Band	Frequency(MHz)	Sub	Conducted Power(dBm)	ANT Gain(dBi)	EIRP(dBm)	limit(dBm)	Result
NVNT	HSUPA	Band 2	1852.4	1	21.84	0.6	22.44	33.01	Pass
NVNT	HSUPA	Band 2	1852.4	2	22.05	0.6	22.65	33.01	Pass
NVNT	HSUPA	Band 2	1852.4	3	21.87	0.6	22.47	33.01	Pass
NVNT	HSUPA	Band 2	1852.4	4	22.29	0.6	22.89	33.01	Pass
NVNT	HSUPA	Band 2	1852.4	5	22.07	0.6	22.67	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	1	21.76	0.6	22.36	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	2	22.25	0.6	22.85	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	3	21.99	0.6	22.59	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	4	22.33	0.6	22.93	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	5	21.63	0.6	22.23	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	1	22.84	0.6	23.44	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	2	21.71	0.6	22.31	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	3	22.00	0.6	22.60	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	4	22.01	0.6	22.61	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	5	22.68	0.6	23.28	33.01	Pass

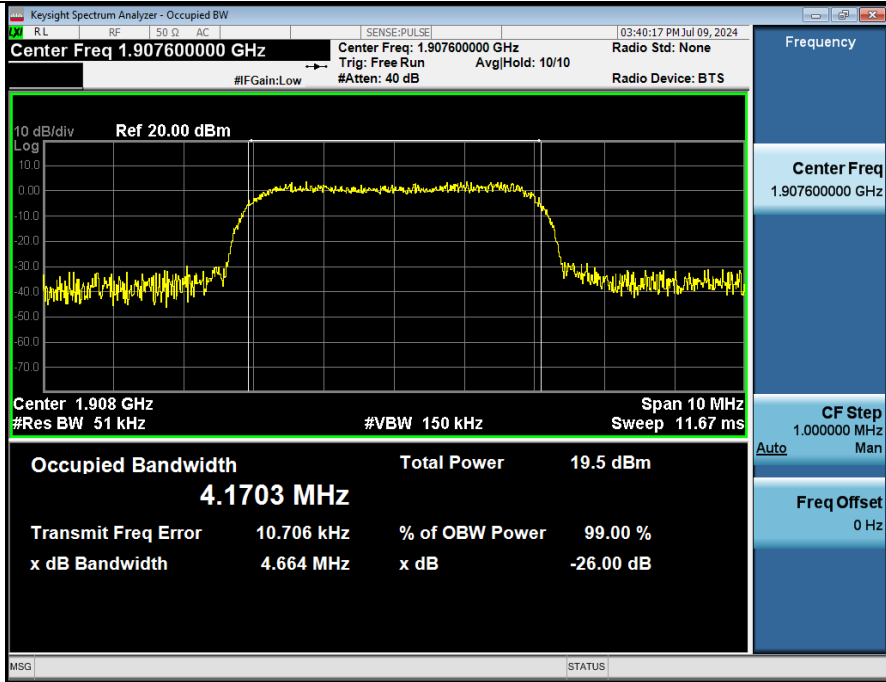
EIRP = Conducted Power + ANT Gain

2. Occupied Bandwidth

Condition	Mode	Band	Frequency(MHz)	Sub	OBW(MHz)	-26EBW(MHz)
NVNT	HSUPA	Band 2	1852.4	1	4.1728	4.6805
NVNT	HSUPA	Band 2	1880.0	1	4.1715	4.6526
NVNT	HSUPA	Band 2	1907.6	1	4.1703	4.6636

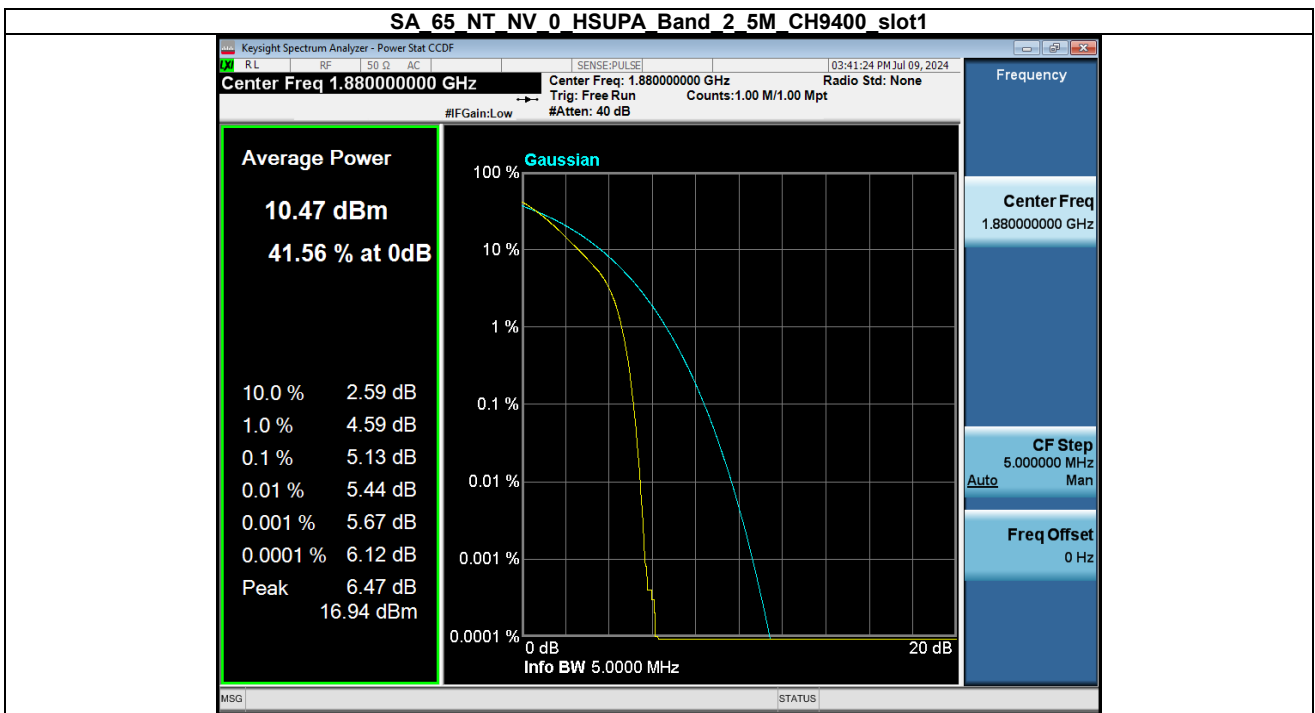


SA 65_NT_NV_0_HSUPA_Band_2_5M_CH9538_slot1

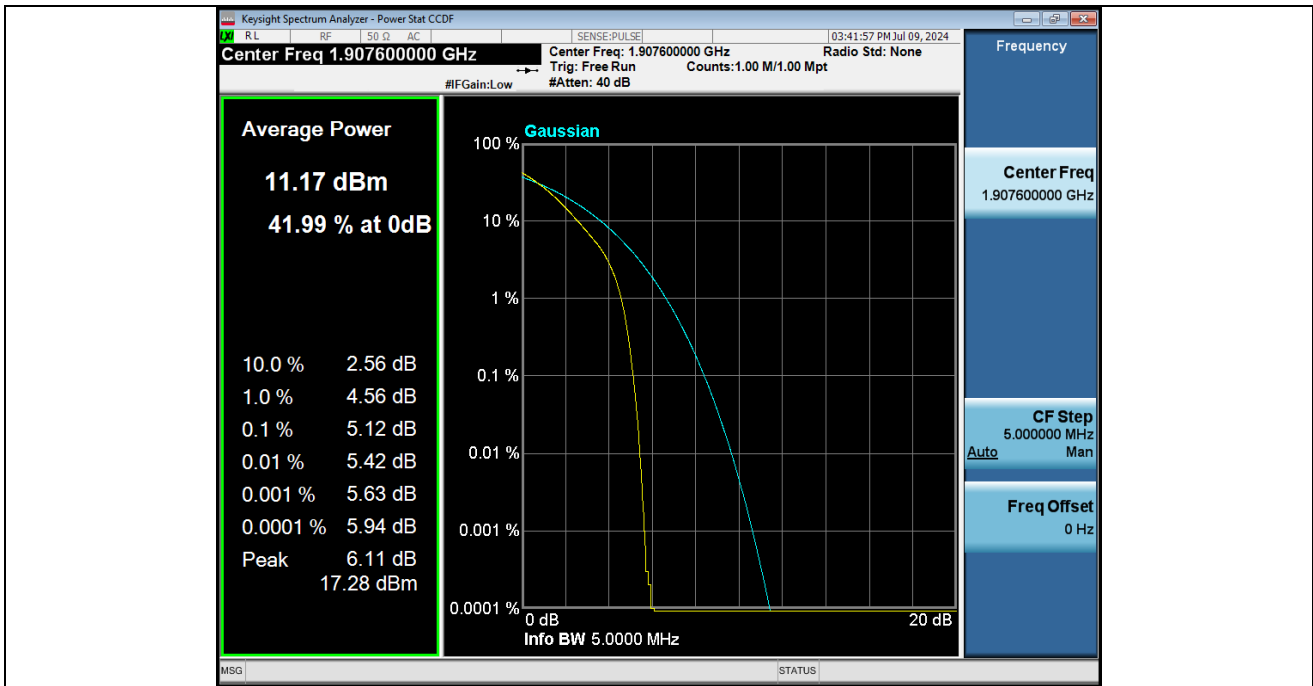


3. Peak to Average Ratio

Condition	Mode	Band	Frequency(MHz)	Sub	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	HSUPA	Band 2	1852.4	1	4.62	13.00	Pass
NVNT	HSUPA	Band 2	1880.0	1	5.13	13.00	Pass
NVNT	HSUPA	Band 2	1907.6	1	5.12	13.00	Pass

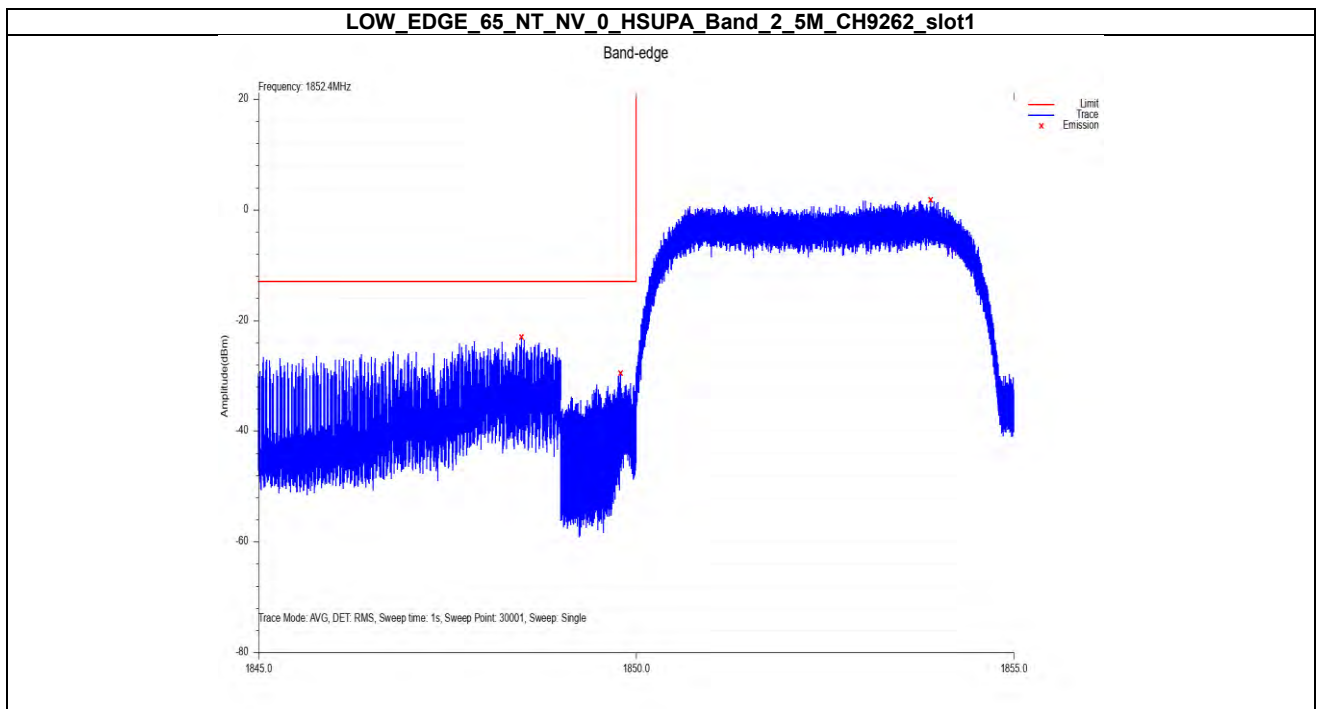


SA 65_NT_NV_0_HSUPA_Band_2_5M_CH9538_slot1



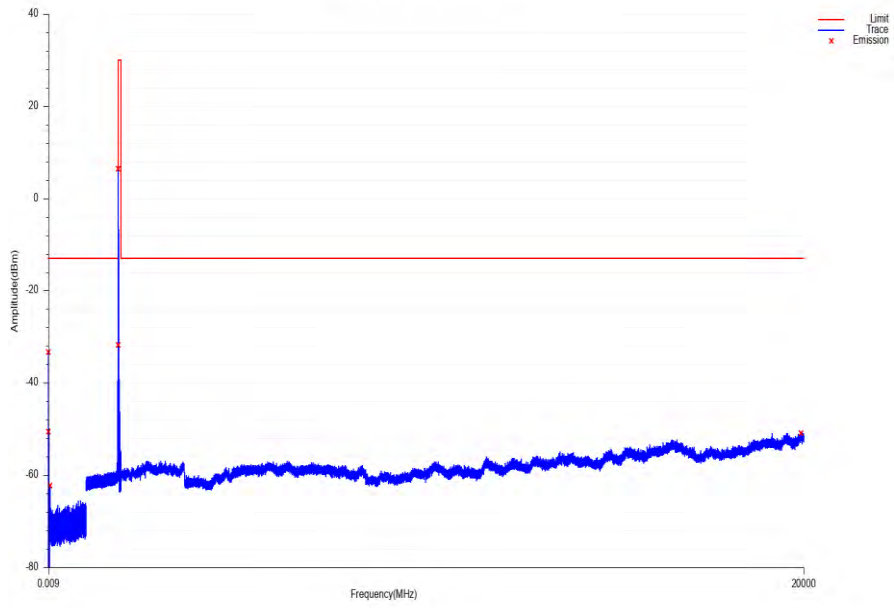
4. Unwanted Spurious Emission

Condition	Mode	Band	Frequency(MHz)	Sub	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	HSUPA	Band 2	1852.40	1	1000	1845.0~1849.0	1848.481	-23.01	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	50.0	1849.0~1850.0	1849.794	-29.55	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	1	0.009~0.150	0.098	-50.57	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	10	0.150~30.000	3.451	-33.35	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	100	30.000~1000.000	39.312	-62.33	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	1000	1000.000~1845.000	1842.437	-31.82	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	1000	1915.000~20000.000	19928.866	-50.86	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	1	0.009~0.150	0.098	-51.51	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	10	0.150~30.000	3.467	-31.93	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	100	30.000~1000.000	38.213	-64.83	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	1000	1000.000~1845.000	1843.085	-49.21	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	1000	1915.000~20000.000	19934.291	-50.73	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	50.0	1910.0~1911.0	1910.292	-29.17	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	1000	1911.0~1915.0	1911.267	-22.22	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	1	0.009~0.150	0.098	-50.61	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	10	0.150~30.000	1.983	-32.53	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	100	30.000~1000.000	38.665	-64.05	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	1000	1000.000~1845.000	1839.845	-55.65	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	1000	1915.000~20000.000	1915.000	-45.65	-13	Pass



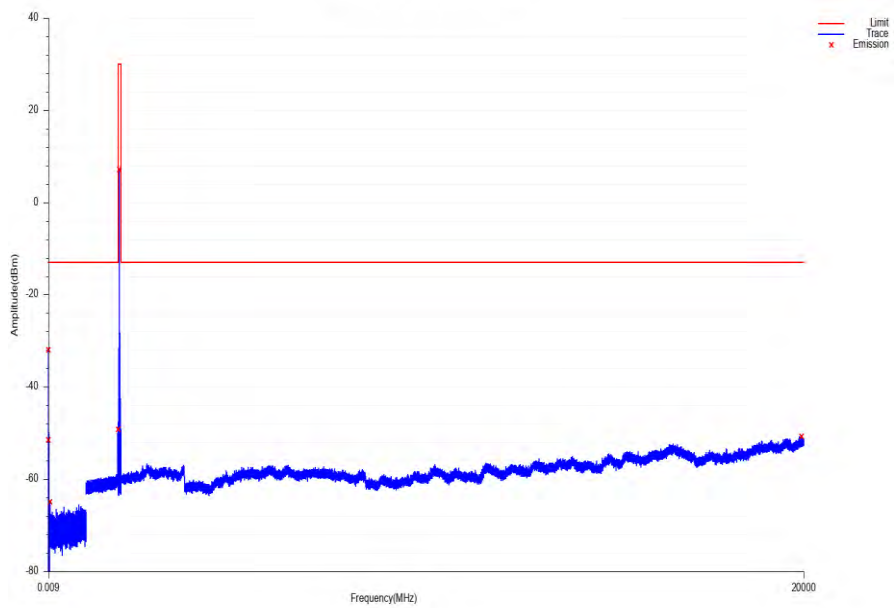
SA_65_NT_NV_0_HSUPA_Band_2_5M_CH9262_slot1

Unwanted spurious emissions

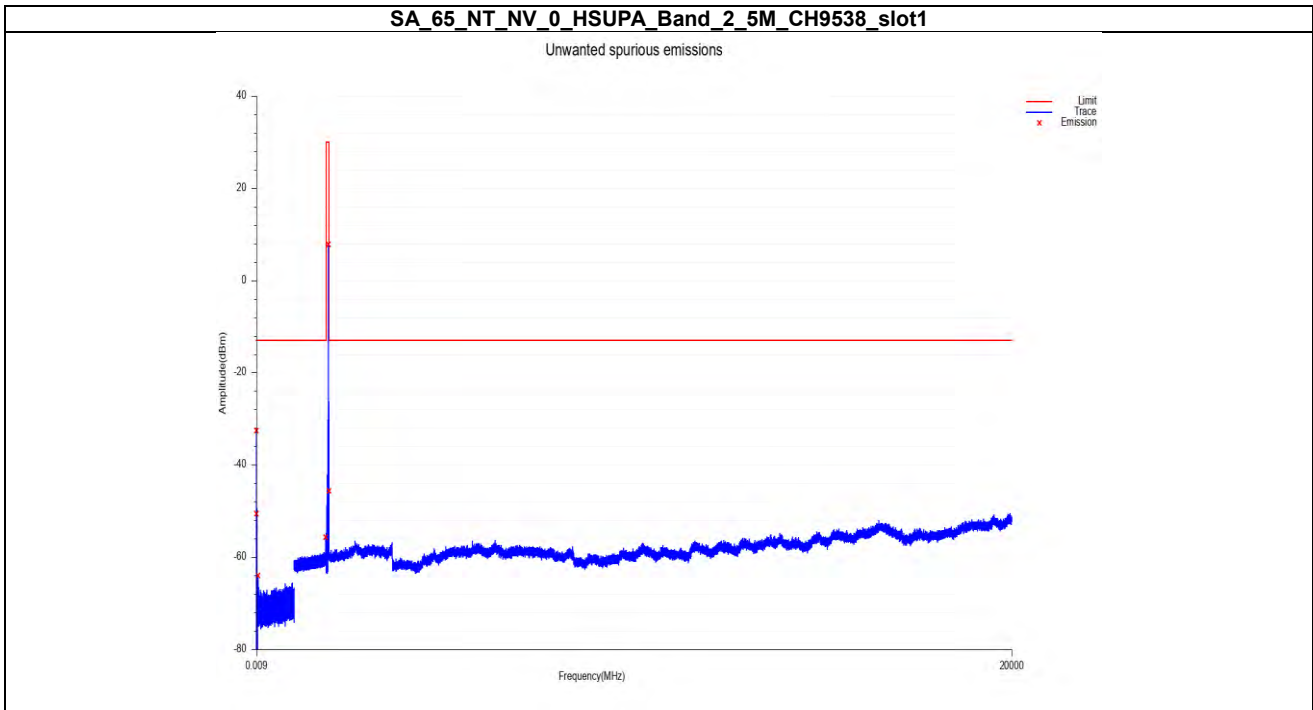
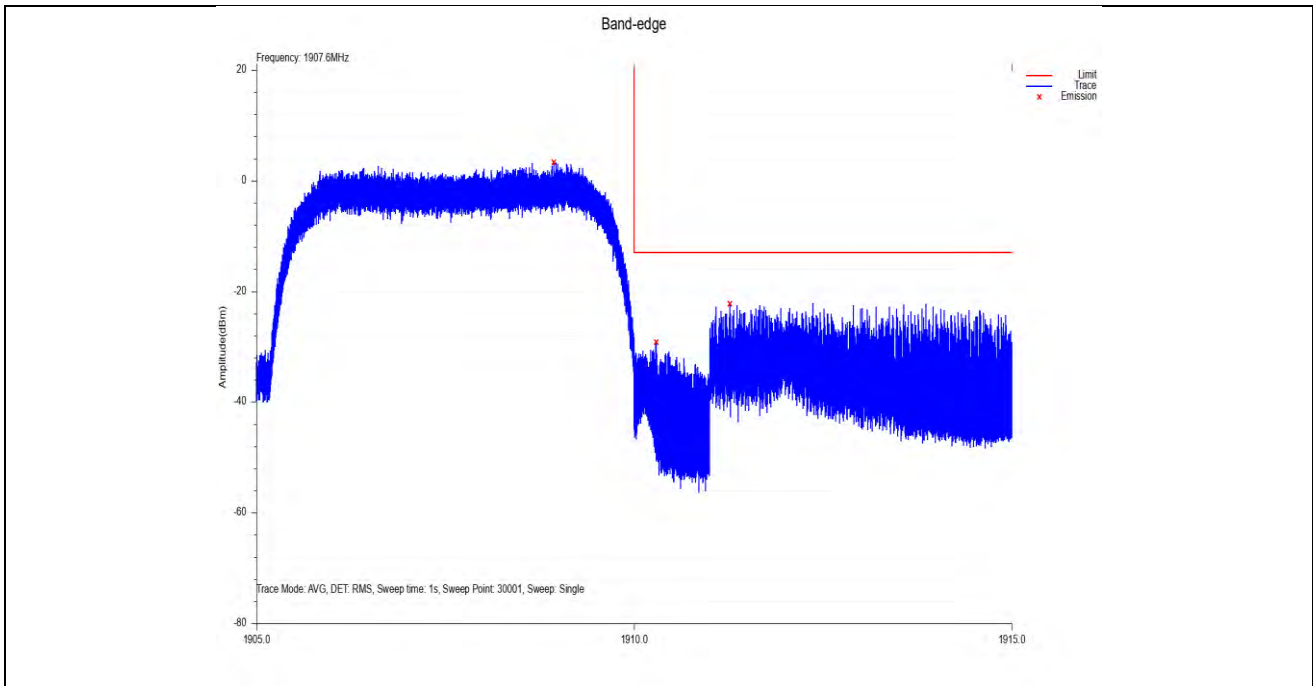


SA_65_NT_NV_0_HSUPA_Band_2_5M_CH9400_slot1

Unwanted spurious emissions



UPPER_EDGE_65_NT_NV_0_HSUPA_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	3.3	HSUPA	Band 2	1852.4	1	0.0069	-2.50	2.50	Pass
-30	3.3	HSUPA	Band 2	1880.0	1	0.0080	-2.50	2.50	Pass
-30	3.3	HSUPA	Band 2	1907.6	1	0.0102	-2.50	2.50	Pass
-30	3.8	HSUPA	Band 2	1852.4	1	0.0092	-2.50	2.50	Pass
-30	3.8	HSUPA	Band 2	1880.0	1	0.0038	-2.50	2.50	Pass
-30	3.8	HSUPA	Band 2	1907.6	1	0.0068	-2.50	2.50	Pass
-30	4.2	HSUPA	Band 2	1852.4	1	0.0081	-2.50	2.50	Pass
-30	4.2	HSUPA	Band 2	1880.0	1	0.0043	-2.50	2.50	Pass
-30	4.2	HSUPA	Band 2	1907.6	1	0.0073	-2.50	2.50	Pass
-20	3.3	HSUPA	Band 2	1852.4	1	0.0071	-2.50	2.50	Pass
-20	3.3	HSUPA	Band 2	1880.0	1	0.0071	-2.50	2.50	Pass
-20	3.3	HSUPA	Band 2	1907.6	1	0.0091	-2.50	2.50	Pass
-20	3.8	HSUPA	Band 2	1852.4	1	0.0055	-2.50	2.50	Pass
-20	3.8	HSUPA	Band 2	1880.0	1	0.0045	-2.50	2.50	Pass
-20	3.8	HSUPA	Band 2	1907.6	1	0.0076	-2.50	2.50	Pass
-20	4.2	HSUPA	Band 2	1852.4	1	0.0091	-2.50	2.50	Pass
-20	4.2	HSUPA	Band 2	1880.0	1	0.0061	-2.50	2.50	Pass
-20	4.2	HSUPA	Band 2	1907.6	1	0.0078	-2.50	2.50	Pass
-10	3.3	HSUPA	Band 2	1852.4	1	0.0070	-2.50	2.50	Pass
-10	3.3	HSUPA	Band 2	1880.0	1	0.0062	-2.50	2.50	Pass
-10	3.3	HSUPA	Band 2	1907.6	1	0.0064	-2.50	2.50	Pass
-10	3.8	HSUPA	Band 2	1852.4	1	0.0082	-2.50	2.50	Pass
-10	3.8	HSUPA	Band 2	1880.0	1	0.0022	-2.50	2.50	Pass
-10	3.8	HSUPA	Band 2	1907.6	1	0.0099	-2.50	2.50	Pass
-10	4.2	HSUPA	Band 2	1852.4	1	0.0055	-2.50	2.50	Pass
-10	4.2	HSUPA	Band 2	1880.0	1	0.0047	-2.50	2.50	Pass
-10	4.2	HSUPA	Band 2	1907.6	1	0.0056	-2.50	2.50	Pass
0	3.3	HSUPA	Band 2	1852.4	1	0.0042	-2.50	2.50	Pass
0	3.3	HSUPA	Band 2	1880.0	1	0.0085	-2.50	2.50	Pass
0	3.3	HSUPA	Band 2	1907.6	1	0.0076	-2.50	2.50	Pass
0	3.8	HSUPA	Band 2	1852.4	1	0.0050	-2.50	2.50	Pass
0	3.8	HSUPA	Band 2	1880.0	1	0.0088	-2.50	2.50	Pass
0	3.8	HSUPA	Band 2	1907.6	1	0.0065	-2.50	2.50	Pass
0	4.2	HSUPA	Band	1852.4	1	0.0036	-2.50	2.50	Pass

			2						
0	4.2	HSUPA	Band 2	1880.0	1	0.0068	-2.50	2.50	Pass
0	4.2	HSUPA	Band 2	1907.6	1	0.0083	-2.50	2.50	Pass
10	3.3	HSUPA	Band 2	1852.4	1	0.0049	-2.50	2.50	Pass
10	3.3	HSUPA	Band 2	1880.0	1	0.0079	-2.50	2.50	Pass
10	3.3	HSUPA	Band 2	1907.6	1	0.0081	-2.50	2.50	Pass
10	3.8	HSUPA	Band 2	1852.4	1	0.0106	-2.50	2.50	Pass
10	3.8	HSUPA	Band 2	1880.0	1	0.0040	-2.50	2.50	Pass
10	3.8	HSUPA	Band 2	1907.6	1	0.0073	-2.50	2.50	Pass
10	4.2	HSUPA	Band 2	1852.4	1	0.0074	-2.50	2.50	Pass
10	4.2	HSUPA	Band 2	1880.0	1	0.0057	-2.50	2.50	Pass
10	4.2	HSUPA	Band 2	1907.6	1	0.0057	-2.50	2.50	Pass
20	3.3	HSUPA	Band 2	1852.4	1	0.0053	-2.50	2.50	Pass
20	3.3	HSUPA	Band 2	1880.0	1	0.0104	-2.50	2.50	Pass
20	3.3	HSUPA	Band 2	1907.6	1	0.0095	-2.50	2.50	Pass
20	3.8	HSUPA	Band 2	1852.4	1	0.0056	-2.50	2.50	Pass
20	3.8	HSUPA	Band 2	1880.0	1	0.0059	-2.50	2.50	Pass
20	3.8	HSUPA	Band 2	1907.6	1	0.0042	-2.50	2.50	Pass
20	4.2	HSUPA	Band 2	1852.4	1	0.0054	-2.50	2.50	Pass
20	4.2	HSUPA	Band 2	1880.0	1	0.0089	-2.50	2.50	Pass
20	4.2	HSUPA	Band 2	1907.6	1	0.0060	-2.50	2.50	Pass
30	3.3	HSUPA	Band 2	1852.4	1	0.0051	-2.50	2.50	Pass
30	3.3	HSUPA	Band 2	1880.0	1	0.0055	-2.50	2.50	Pass
30	3.3	HSUPA	Band 2	1907.6	1	0.0060	-2.50	2.50	Pass
30	3.8	HSUPA	Band 2	1852.4	1	0.0072	-2.50	2.50	Pass
30	3.8	HSUPA	Band 2	1880.0	1	0.0047	-2.50	2.50	Pass
30	3.8	HSUPA	Band 2	1907.6	1	0.0093	-2.50	2.50	Pass
30	4.2	HSUPA	Band 2	1852.4	1	0.0057	-2.50	2.50	Pass
30	4.2	HSUPA	Band 2	1880.0	1	0.0087	-2.50	2.50	Pass
30	4.2	HSUPA	Band 2	1907.6	1	0.0102	-2.50	2.50	Pass
40	3.3	HSUPA	Band 2	1852.4	1	0.0066	-2.50	2.50	Pass
40	3.3	HSUPA	Band 2	1880.0	1	0.0075	-2.50	2.50	Pass
40	3.3	HSUPA	Band 2	1907.6	1	0.0076	-2.50	2.50	Pass
40	3.8	HSUPA	Band 2	1852.4	1	0.0055	-2.50	2.50	Pass
40	3.8	HSUPA	Band 2	1880.0	1	0.0051	-2.50	2.50	Pass
40	3.8	HSUPA	Band 2	1907.6	1	0.0073	-2.50	2.50	Pass
40	4.2	HSUPA	Band 2	1852.4	1	0.0029	-2.50	2.50	Pass
40	4.2	HSUPA	Band 2	1880.0	1	0.0074	-2.50	2.50	Pass
40	4.2	HSUPA	Band 2	1907.6	1	0.0072	-2.50	2.50	Pass

50	3.3	HSUPA	Band 2	1852.4	1	0.0061	-2.50	2.50	Pass
50	3.3	HSUPA	Band 2	1880.0	1	0.0091	-2.50	2.50	Pass
50	3.3	HSUPA	Band 2	1907.6	1	0.0088	-2.50	2.50	Pass
50	3.8	HSUPA	Band 2	1852.4	1	0.0078	-2.50	2.50	Pass
50	3.8	HSUPA	Band 2	1880.0	1	0.0080	-2.50	2.50	Pass
50	3.8	HSUPA	Band 2	1907.6	1	0.0082	-2.50	2.50	Pass
50	4.2	HSUPA	Band 2	1852.4	1	0.0042	-2.50	2.50	Pass
50	4.2	HSUPA	Band 2	1880.0	1	0.0103	-2.50	2.50	Pass
50	4.2	HSUPA	Band 2	1907.6	1	0.0069	-2.50	2.50	Pass