

WCDMA Band 2 HSUPA Test Data

FCC ID: 2BLBN-SMART

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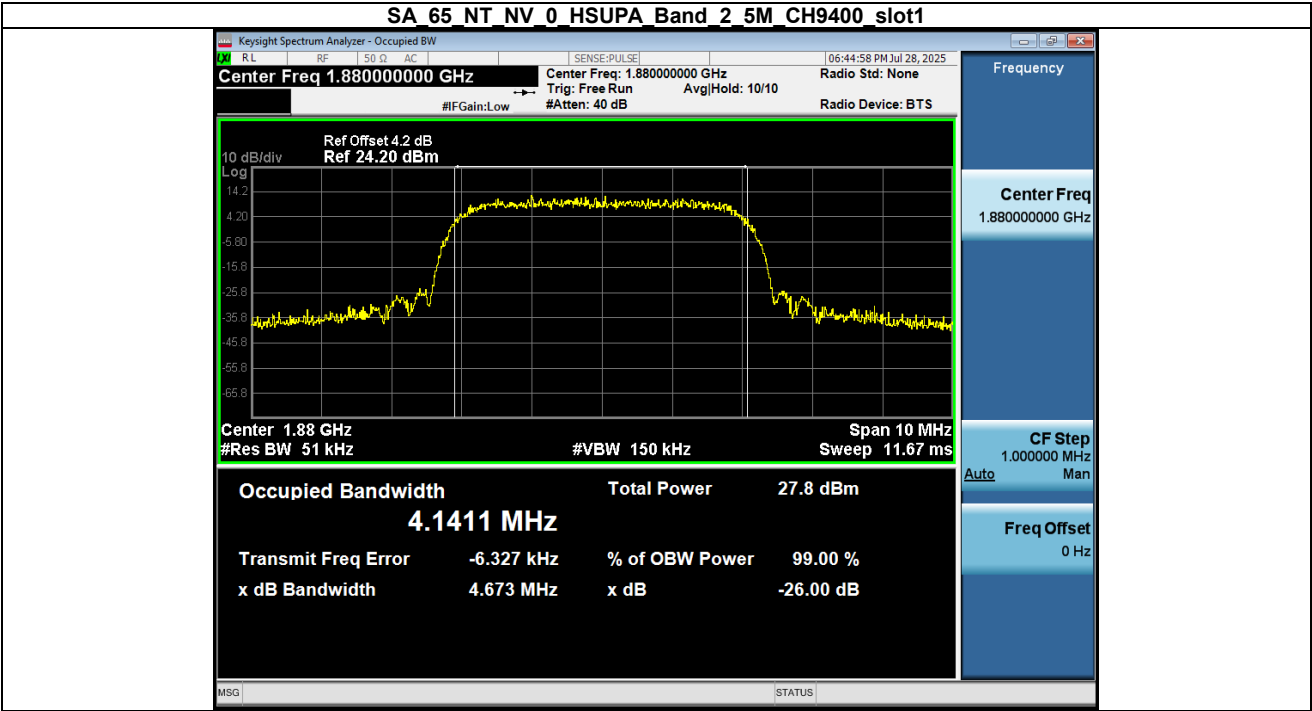
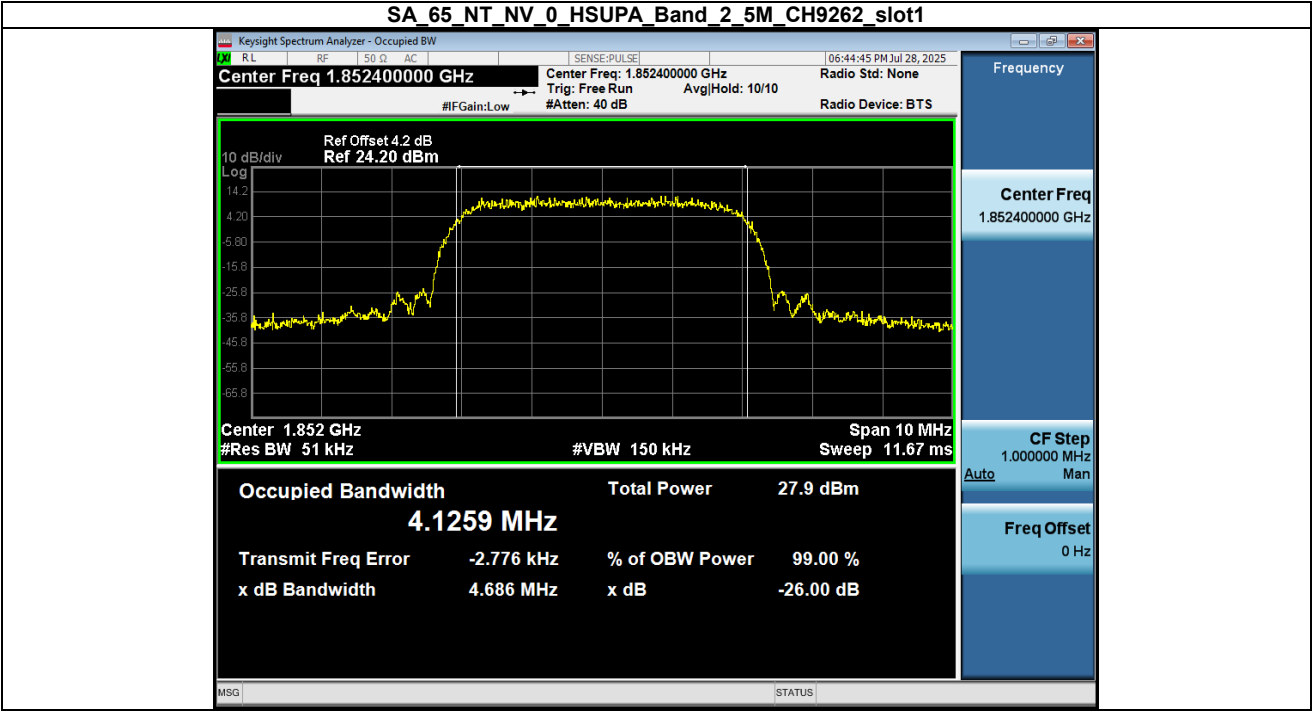
1. Conducted Output Power&&EIRP/ERP

Condition	Mode	Band	Frequency (MHz)	Sub	Conducted Power(dBm)	ANT Gain(dBi)	EIRP(dBm)	limit(dBm)	Result
NVNT	HSUPA	Band 2	1852.4	1	22.62	1.73	24.35	33.01	Pass
NVNT	HSUPA	Band 2	1852.4	2	21.86	1.73	23.59	33.01	Pass
NVNT	HSUPA	Band 2	1852.4	3	22.44	1.73	24.17	33.01	Pass
NVNT	HSUPA	Band 2	1852.4	4	22.64	1.73	24.37	33.01	Pass
NVNT	HSUPA	Band 2	1852.4	5	22.75	1.73	24.48	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	1	21.38	1.73	23.11	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	2	21.98	1.73	23.71	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	3	21.79	1.73	23.52	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	4	22.97	1.73	24.70	33.01	Pass
NVNT	HSUPA	Band 2	1880.0	5	21.47	1.73	23.20	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	1	22.86	1.73	24.99	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	2	21.54	1.73	23.27	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	3	22.74	1.73	24.47	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	4	22.20	1.73	23.93	33.01	Pass
NVNT	HSUPA	Band 2	1907.6	5	22.95	1.73	25.08	33.01	Pass

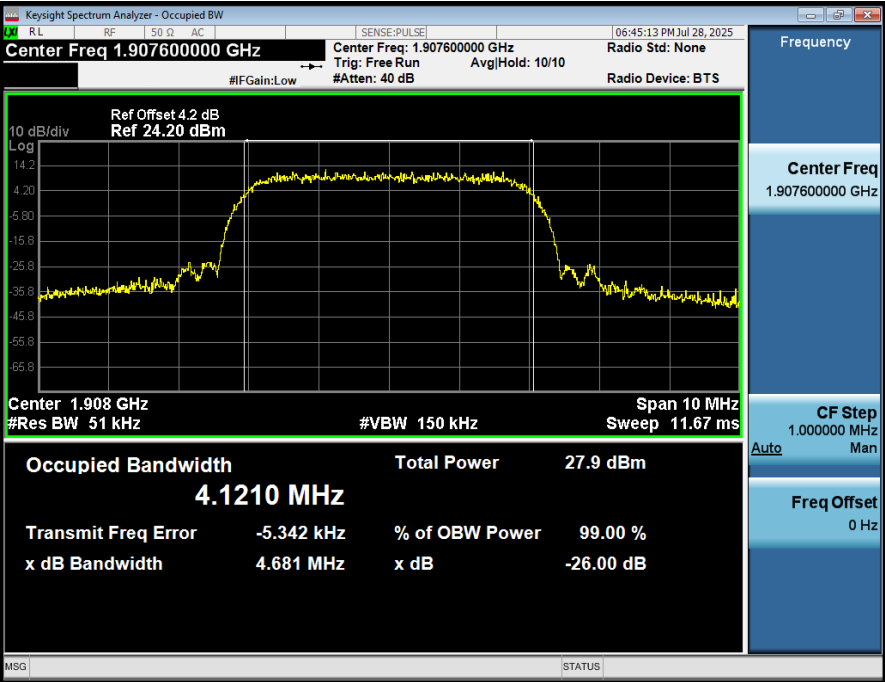
EIRP = Conducted Power + ANT Gain

2. Occupied Bandwidth

Condition	Mode	Band	Frequency(MHz)	Sub	OBW(MHz)	-26EBW(MHz)
NVNT	HSUPA	Band 2	1852.4	1	4.1259	4.6857
NVNT	HSUPA	Band 2	1880.0	1	4.1411	4.6727
NVNT	HSUPA	Band 2	1907.6	1	4.1210	4.6814

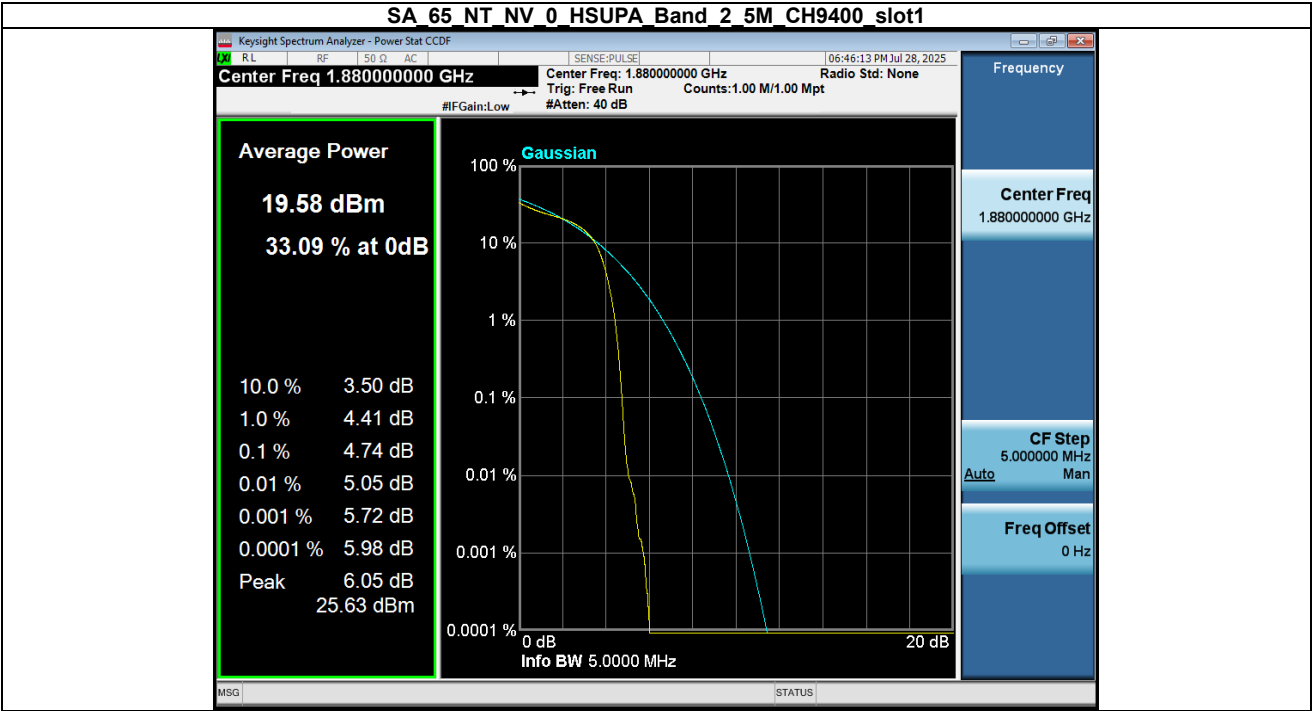
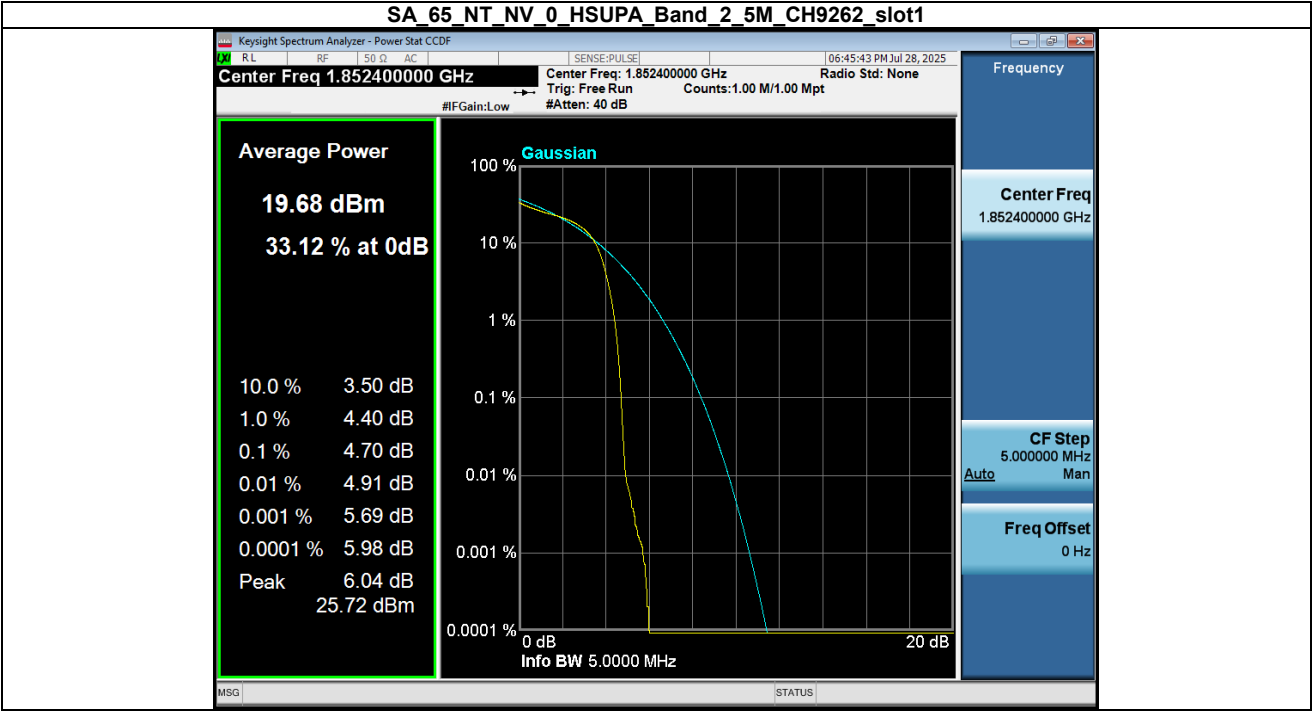


SA_65_NT_NV_0_HSUPA_Band_2_5M_CH9538_slot1

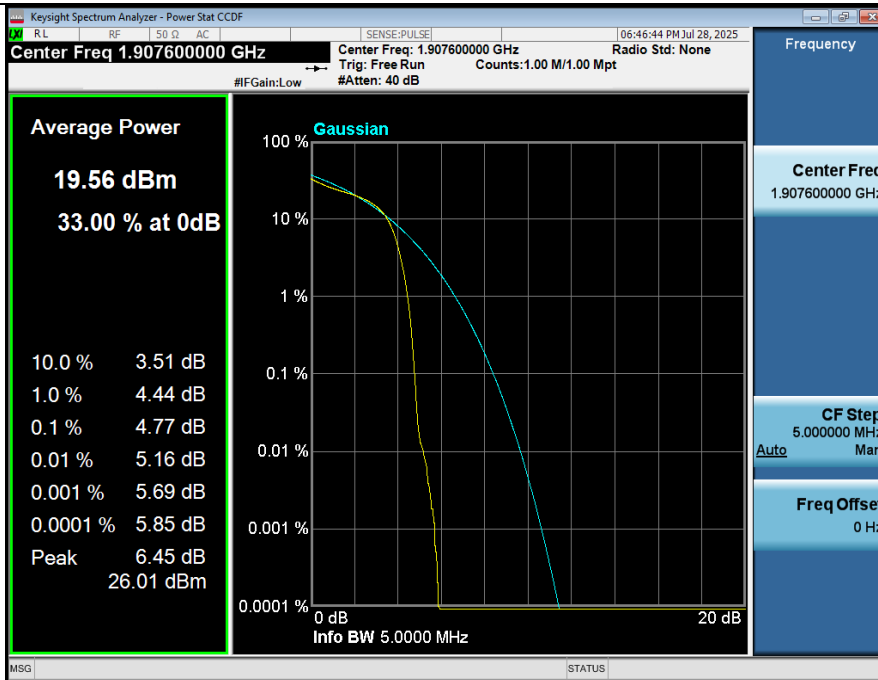


3. Peak to Average Ratio

Condition	Mode	Band	Frequency(MHz)	Sub	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	HSUPA	Band 2	1852.4	1	4.70	13.00	Pass
NVNT	HSUPA	Band 2	1880.0	1	4.74	13.00	Pass
NVNT	HSUPA	Band 2	1907.6	1	4.77	13.00	Pass

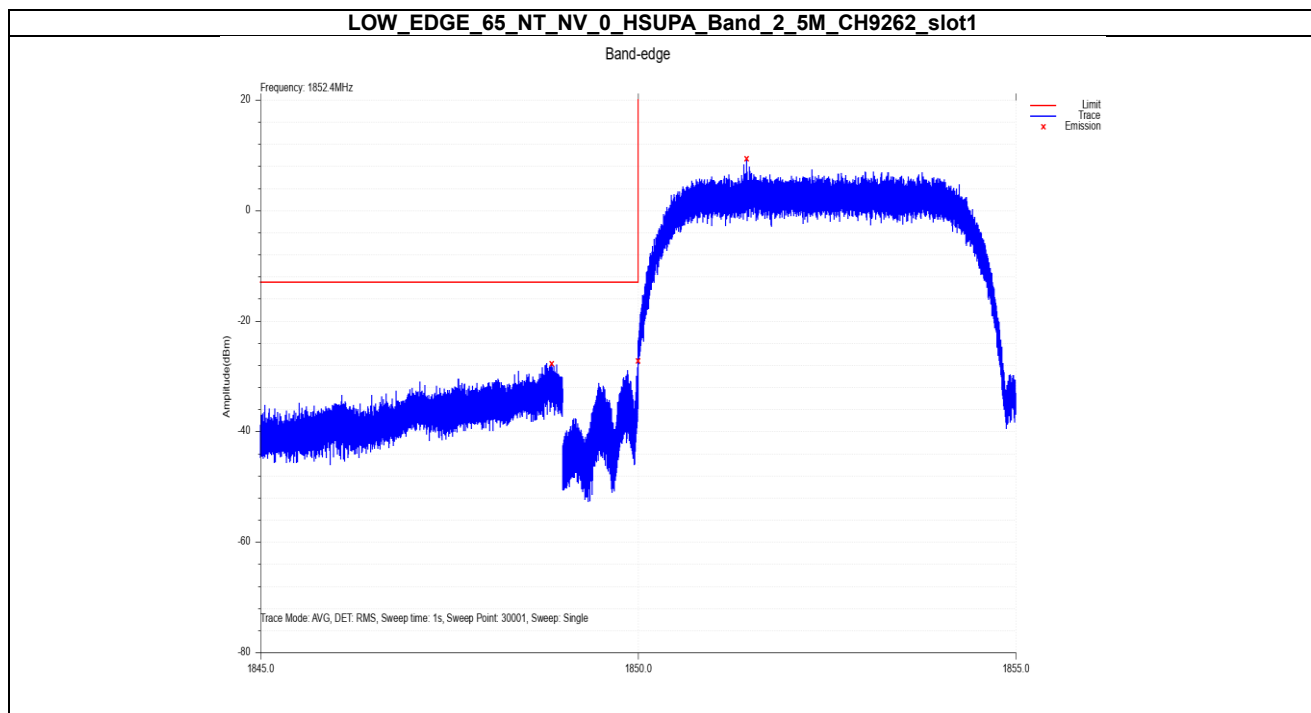


SA_65_NT_NV_0_HSUPA_Band_2_5M_CH9538_slot1

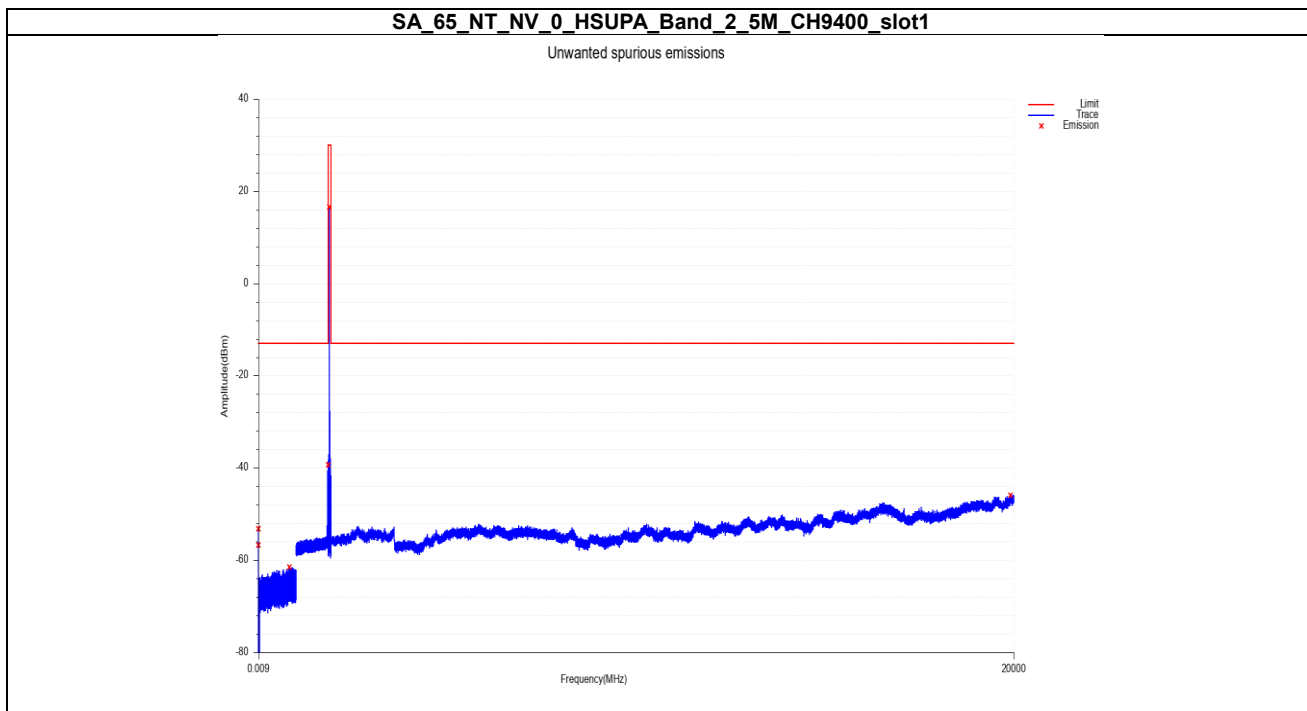
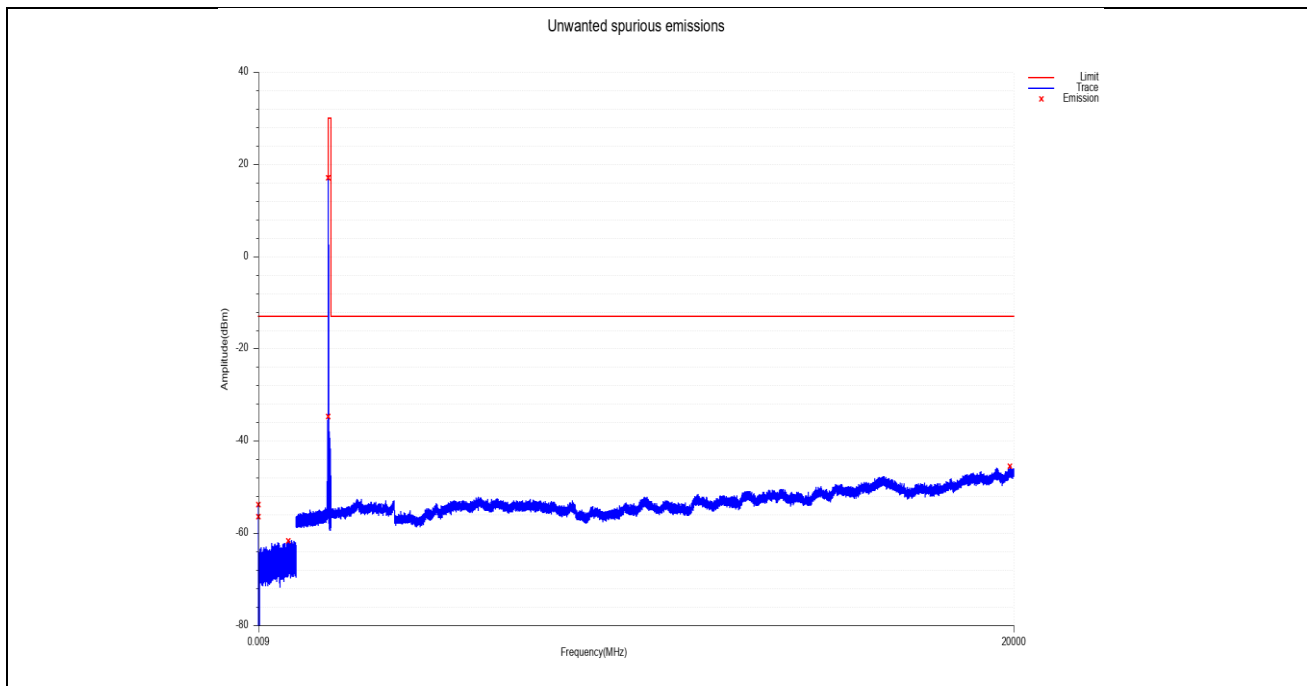


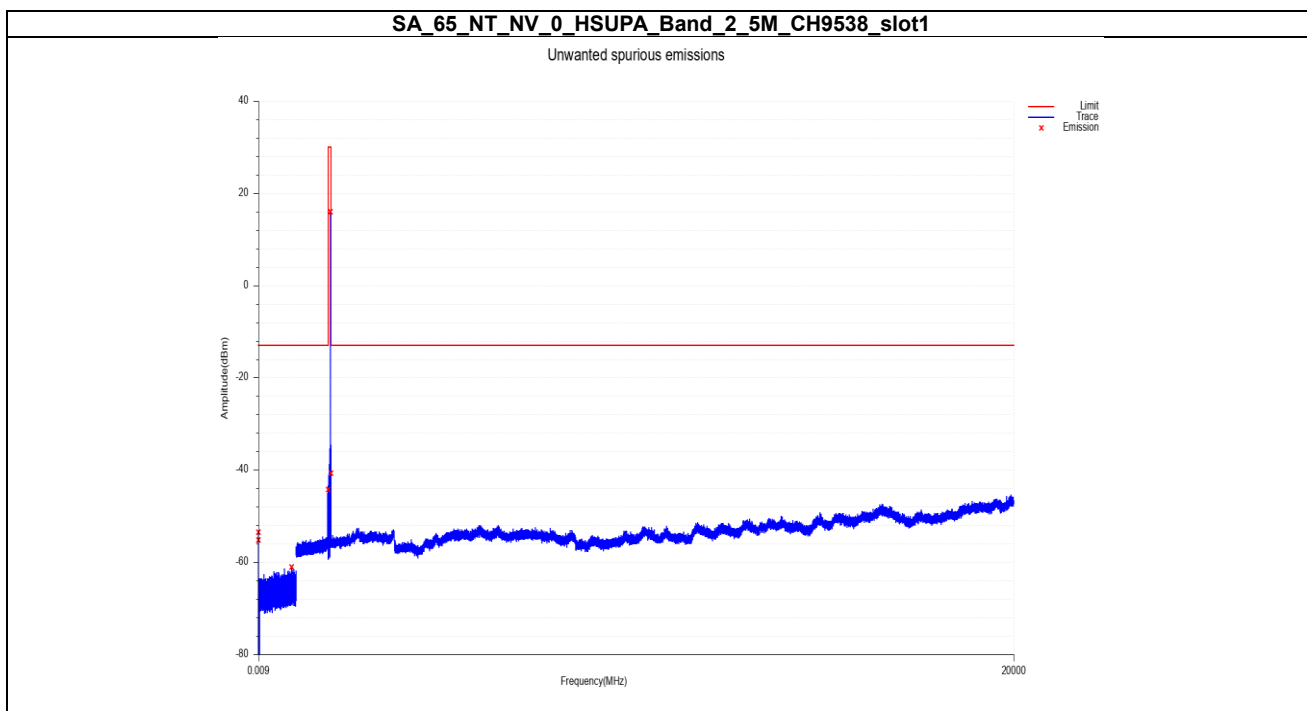
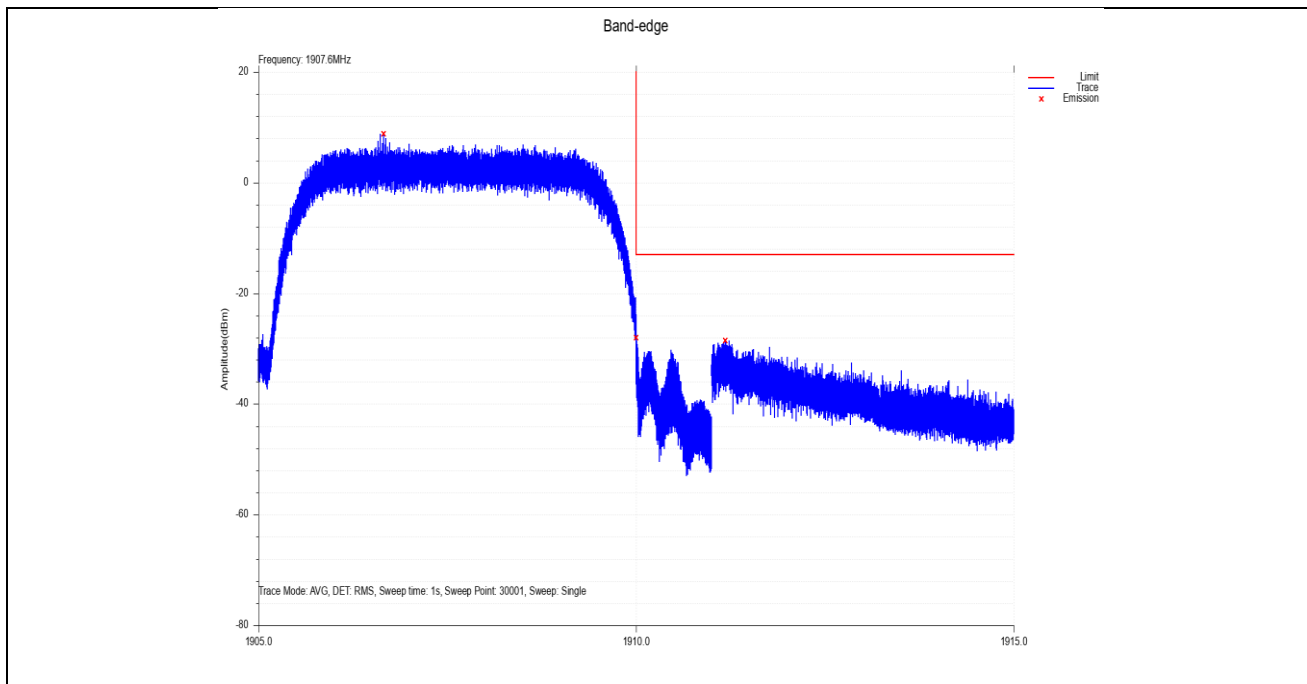
4. Unwanted Spurious Emission

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	1848.854	-27.71	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	50.0	1849.0~1850.0	1849.998	-27.28	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	1	0.009~0.150	0.010	-53.85	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	10	0.150~30.000	0.150	-56.43	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	100	30.000~1000.000	792.937	-61.61	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	1000	1000.000~1845.000	1844.578	-34.70	-13	Pass
NVNT	HSUPA	Band 2	1852.40	1	1000	1915.000~20000.000	19896.915	-45.53	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	1	0.009~0.150	0.009	-53.22	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	10	0.150~30.000	0.160	-56.80	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	100	30.000~1000.000	828.148	-61.54	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	1000	1000.000~1845.000	1843.704	-39.35	-13	Pass
NVNT	HSUPA	Band 2	1880.00	1	1000	1915.000~20000.000	19912.589	-45.95	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	50.0	1910.0~1911.0	1910.002	-27.97	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	1000	1911.0~1915.0	1911.181	-28.52	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	1	0.009~0.150	0.010	-53.48	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	10	0.150~30.000	0.152	-55.25	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	100	30.000~1000.000	878.912	-61.09	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	1000	1000.000~1845.000	1843.000	-44.23	-13	Pass
NVNT	HSUPA	Band 2	1907.60	1	1000	1915.000~20000.000	1915.000	-40.67	-13	Pass



SA_65_NT_NV_0_HSUPA_Band_2_5M_CH9262_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	HSUPA	Band 2	1852.4	1	0.0016	-2.50	2.50	Pass
-30	3.47	HSUPA	Band 2	1880.0	1	0.0017	-2.50	2.50	Pass
-30	3.47	HSUPA	Band 2	1907.6	1	0.0042	-2.50	2.50	Pass
-30	3.85	HSUPA	Band 2	1852.4	1	0.0066	-2.50	2.50	Pass
-30	3.85	HSUPA	Band 2	1880.0	1	0.0039	-2.50	2.50	Pass
-30	3.85	HSUPA	Band 2	1907.6	1	0.0076	-2.50	2.50	Pass
-30	4.24	HSUPA	Band 2	1852.4	1	0.0036	-2.50	2.50	Pass
-30	4.24	HSUPA	Band 2	1880.0	1	0.0023	-2.50	2.50	Pass
-30	4.24	HSUPA	Band 2	1907.6	1	0.0036	-2.50	2.50	Pass
-20	3.47	HSUPA	Band 2	1852.4	1	0.0030	-2.50	2.50	Pass
-20	3.47	HSUPA	Band 2	1880.0	1	0.0010	-2.50	2.50	Pass
-20	3.47	HSUPA	Band 2	1907.6	1	0.0063	-2.50	2.50	Pass
-20	3.85	HSUPA	Band 2	1852.4	1	0.0042	-2.50	2.50	Pass
-20	3.85	HSUPA	Band 2	1880.0	1	0.0048	-2.50	2.50	Pass
-20	3.85	HSUPA	Band 2	1907.6	1	0.0031	-2.50	2.50	Pass
-20	4.24	HSUPA	Band 2	1852.4	1	0.0003	-2.50	2.50	Pass
-20	4.24	HSUPA	Band 2	1880.0	1	0.0062	-2.50	2.50	Pass
-20	4.24	HSUPA	Band 2	1907.6	1	0.0050	-2.50	2.50	Pass
-10	3.47	HSUPA	Band 2	1852.4	1	0.0051	-2.50	2.50	Pass
-10	3.47	HSUPA	Band 2	1880.0	1	0.0016	-2.50	2.50	Pass
-10	3.47	HSUPA	Band 2	1907.6	1	0.0074	-2.50	2.50	Pass
-10	3.85	HSUPA	Band 2	1852.4	1	0.0012	-2.50	2.50	Pass
-10	3.85	HSUPA	Band 2	1880.0	1	0.0018	-2.50	2.50	Pass
-10	3.85	HSUPA	Band 2	1907.6	1	0.0026	-2.50	2.50	Pass
-10	4.24	HSUPA	Band 2	1852.4	1	0.0031	-2.50	2.50	Pass
-10	4.24	HSUPA	Band 2	1880.0	1	0.0064	-2.50	2.50	Pass
-10	4.24	HSUPA	Band 2	1907.6	1	0.0036	-2.50	2.50	Pass
0	3.47	HSUPA	Band 2	1852.4	1	0.0004	-2.50	2.50	Pass
0	3.47	HSUPA	Band 2	1880.0	1	0.0039	-2.50	2.50	Pass
0	3.47	HSUPA	Band 2	1907.6	1	0.0047	-2.50	2.50	Pass
0	3.85	HSUPA	Band 2	1852.4	1	0.0017	-2.50	2.50	Pass
0	3.85	HSUPA	Band 2	1880.0	1	0.0016	-2.50	2.50	Pass
0	3.85	HSUPA	Band 2	1907.6	1	0.0061	-2.50	2.50	Pass
0	4.24	HSUPA	Band 2	1852.4	1	0.0041	-2.50	2.50	Pass
0	4.24	HSUPA	Band 2	1880.0	1	0.0022	-2.50	2.50	Pass
0	4.24	HSUPA	Band 2	1907.6	1	0.0054	-2.50	2.50	Pass
10	3.47	HSUPA	Band 2	1852.4	1	0.0020	-2.50	2.50	Pass
10	3.47	HSUPA	Band 2	1880.0	1	0.0064	-2.50	2.50	Pass
10	3.47	HSUPA	Band 2	1907.6	1	0.0034	-2.50	2.50	Pass
10	3.85	HSUPA	Band 2	1852.4	1	0.0058	-2.50	2.50	Pass
10	3.85	HSUPA	Band 2	1880.0	1	0.0044	-2.50	2.50	Pass
10	3.85	HSUPA	Band 2	1907.6	1	0.0049	-2.50	2.50	Pass
10	4.24	HSUPA	Band 2	1852.4	1	0.0016	-2.50	2.50	Pass
10	4.24	HSUPA	Band 2	1880.0	1	0.0033	-2.50	2.50	Pass
10	4.24	HSUPA	Band 2	1907.6	1	0.0063	-2.50	2.50	Pass
20	3.47	HSUPA	Band 2	1852.4	1	0.0022	-2.50	2.50	Pass
20	3.47	HSUPA	Band 2	1880.0	1	0.0055	-2.50	2.50	Pass
20	3.47	HSUPA	Band 2	1907.6	1	0.0053	-2.50	2.50	Pass
20	3.85	HSUPA	Band 2	1852.4	1	0.0026	-2.50	2.50	Pass
20	3.85	HSUPA	Band 2	1880.0	1	0.0055	-2.50	2.50	Pass
20	3.85	HSUPA	Band 2	1907.6	1	0.0045	-2.50	2.50	Pass
20	4.24	HSUPA	Band 2	1852.4	1	0.0055	-2.50	2.50	Pass
20	4.24	HSUPA	Band 2	1880.0	1	0.0006	-2.50	2.50	Pass
20	4.24	HSUPA	Band 2	1907.6	1	0.0032	-2.50	2.50	Pass
30	3.47	HSUPA	Band 2	1852.4	1	0.0017	-2.50	2.50	Pass
30	3.47	HSUPA	Band 2	1880.0	1	0.0067	-2.50	2.50	Pass
30	3.47	HSUPA	Band 2	1907.6	1	0.0051	-2.50	2.50	Pass
30	3.85	HSUPA	Band 2	1852.4	1	0.0032	-2.50	2.50	Pass
30	3.85	HSUPA	Band 2	1880.0	1	0.0074	-2.50	2.50	Pass
30	3.85	HSUPA	Band 2	1907.6	1	0.0032	-2.50	2.50	Pass
30	4.24	HSUPA	Band 2	1852.4	1	0.0036	-2.50	2.50	Pass
30	4.24	HSUPA	Band 2	1880.0	1	0.0077	-2.50	2.50	Pass
30	4.24	HSUPA	Band 2	1907.6	1	0.0051	-2.50	2.50	Pass
40	3.47	HSUPA	Band 2	1852.4	1	0.0072	-2.50	2.50	Pass
40	3.47	HSUPA	Band 2	1880.0	1	0.0013	-2.50	2.50	Pass

40	3.47	HSUPA	Band 2	1907.6	1	0.0031	-2.50	2.50	Pass
40	3.85	HSUPA	Band 2	1852.4	1	0.0041	-2.50	2.50	Pass
40	3.85	HSUPA	Band 2	1880.0	1	0.0044	-2.50	2.50	Pass
40	3.85	HSUPA	Band 2	1907.6	1	0.0043	-2.50	2.50	Pass
40	4.24	HSUPA	Band 2	1852.4	1	0.0016	-2.50	2.50	Pass
40	4.24	HSUPA	Band 2	1880.0	1	0.0042	-2.50	2.50	Pass
40	4.24	HSUPA	Band 2	1907.6	1	0.0035	-2.50	2.50	Pass
50	3.47	HSUPA	Band 2	1852.4	1	0.0026	-2.50	2.50	Pass
50	3.47	HSUPA	Band 2	1880.0	1	0.0014	-2.50	2.50	Pass
50	3.47	HSUPA	Band 2	1907.6	1	0.0030	-2.50	2.50	Pass
50	3.85	HSUPA	Band 2	1852.4	1	0.0028	-2.50	2.50	Pass
50	3.85	HSUPA	Band 2	1880.0	1	0.0035	-2.50	2.50	Pass
50	3.85	HSUPA	Band 2	1907.6	1	0.0062	-2.50	2.50	Pass
50	4.24	HSUPA	Band 2	1852.4	1	0.0001	-2.50	2.50	Pass
50	4.24	HSUPA	Band 2	1880.0	1	0.0026	-2.50	2.50	Pass
50	4.24	HSUPA	Band 2	1907.6	1	0.0031	-2.50	2.50	Pass