

# WCDMA Band 2 Test Data

FCC ID: 2BLBN-SMART

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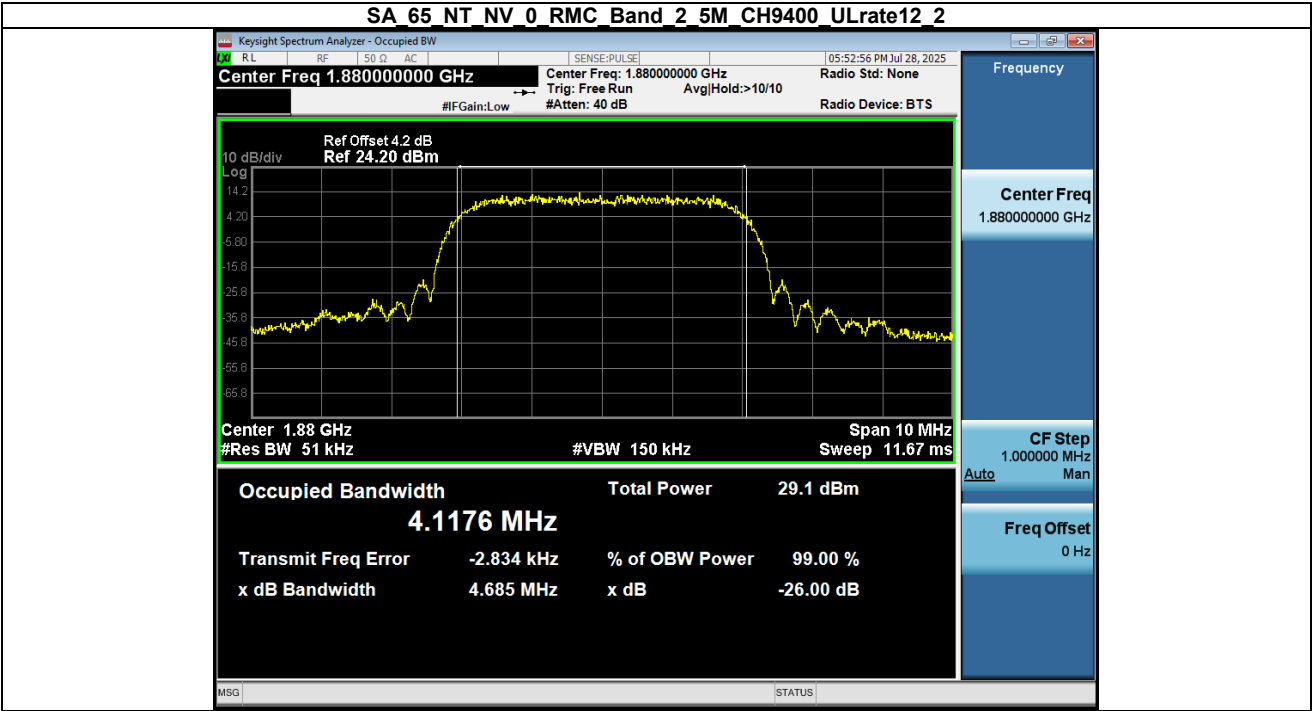
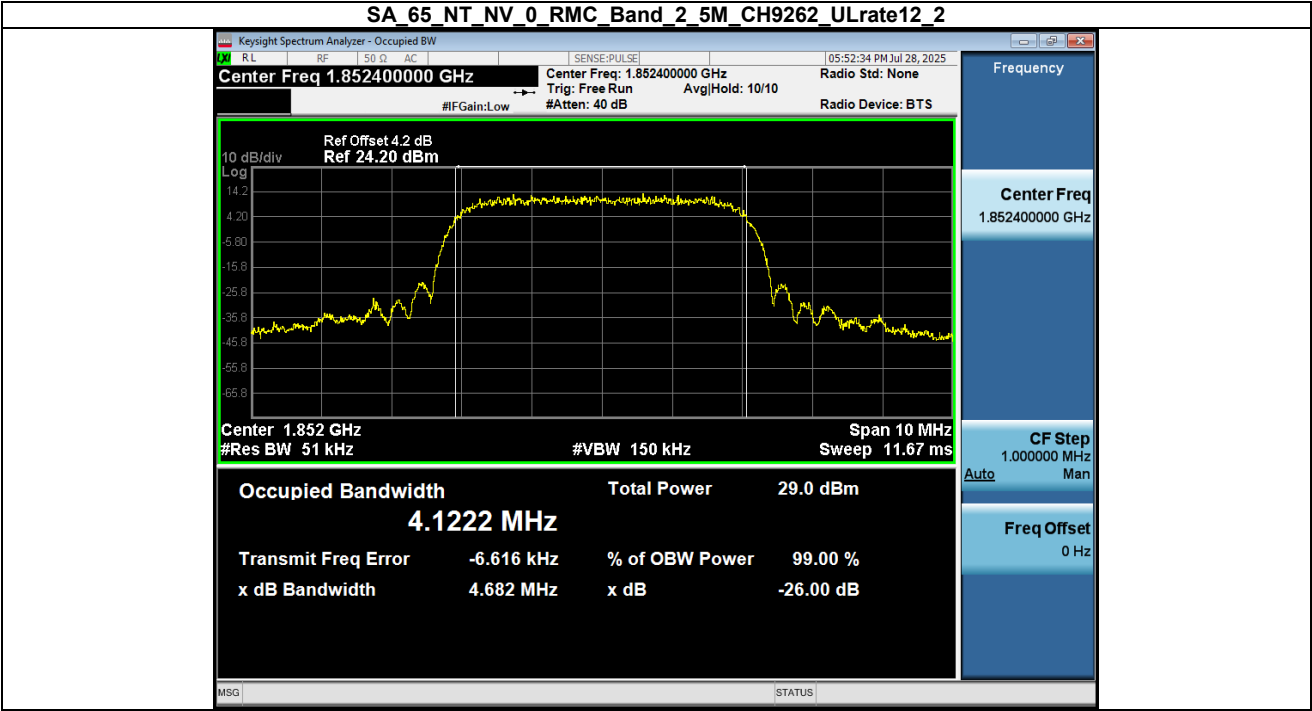
## 1. Conducted Output Power&&EIRP/ERP

| Condition | Mode | Band   | Frequency(MHz) | UL<br>Rate(kHz) | Conducted<br>Power(dBm) | ANT<br>Gain(dBi) | EIRP(dBm) | limit(dBm) | Result |
|-----------|------|--------|----------------|-----------------|-------------------------|------------------|-----------|------------|--------|
| NVNT      | R99  | Band 2 | 1852.4         | 12.2            | <b>24.39</b>            | 1.73             | 26.12     | 33.01      | Pass   |
| NVNT      | R99  | Band 2 | 1880.0         | 12.2            | 23.90                   | 1.73             | 25.63     | 33.01      | Pass   |
| NVNT      | R99  | Band 2 | 1907.6         | 12.2            | 24.17                   | 1.73             | 25.90     | 33.01      | Pass   |

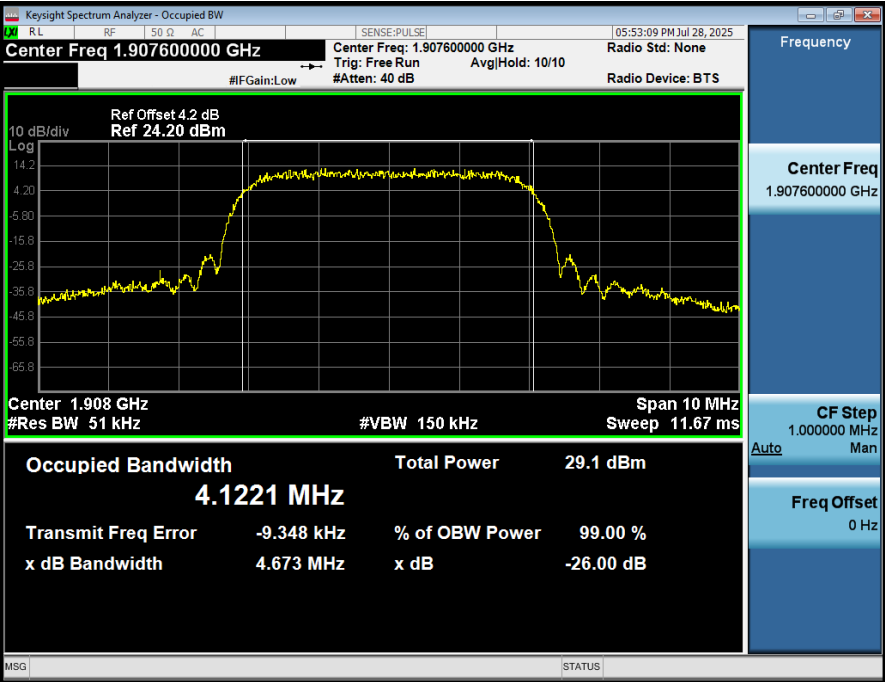
EIRP = Conducted Power + ANT Gain

2. Occupied Bandwidth

| Condition | Mode | Band   | Frequency(MHz) | Data Rate | OBW(MHz) | -26EBW(MHz) |
|-----------|------|--------|----------------|-----------|----------|-------------|
| NVNT      | RMC  | Band 2 | 1852.4         | 12.2      | 4.1222   | 4.6825      |
| NVNT      | RMC  | Band 2 | 1880.0         | 12.2      | 4.1176   | 4.6850      |
| NVNT      | RMC  | Band 2 | 1907.6         | 12.2      | 4.1221   | 4.6728      |

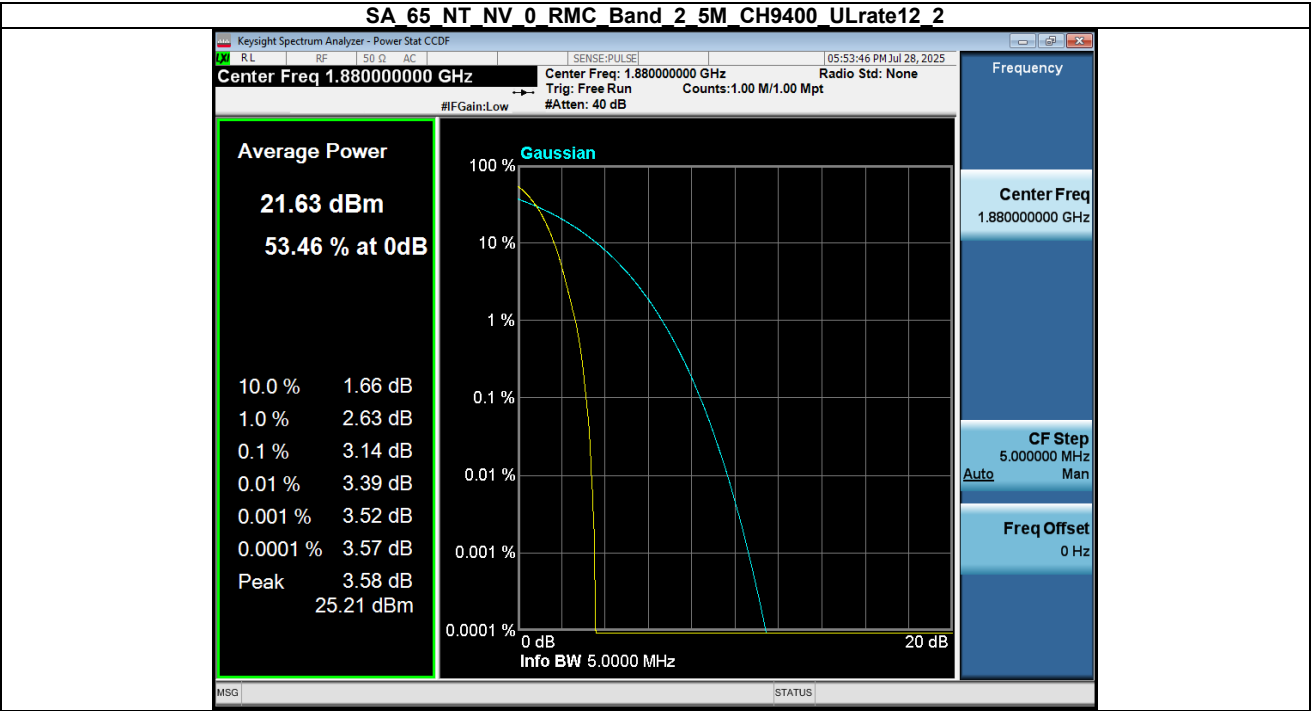
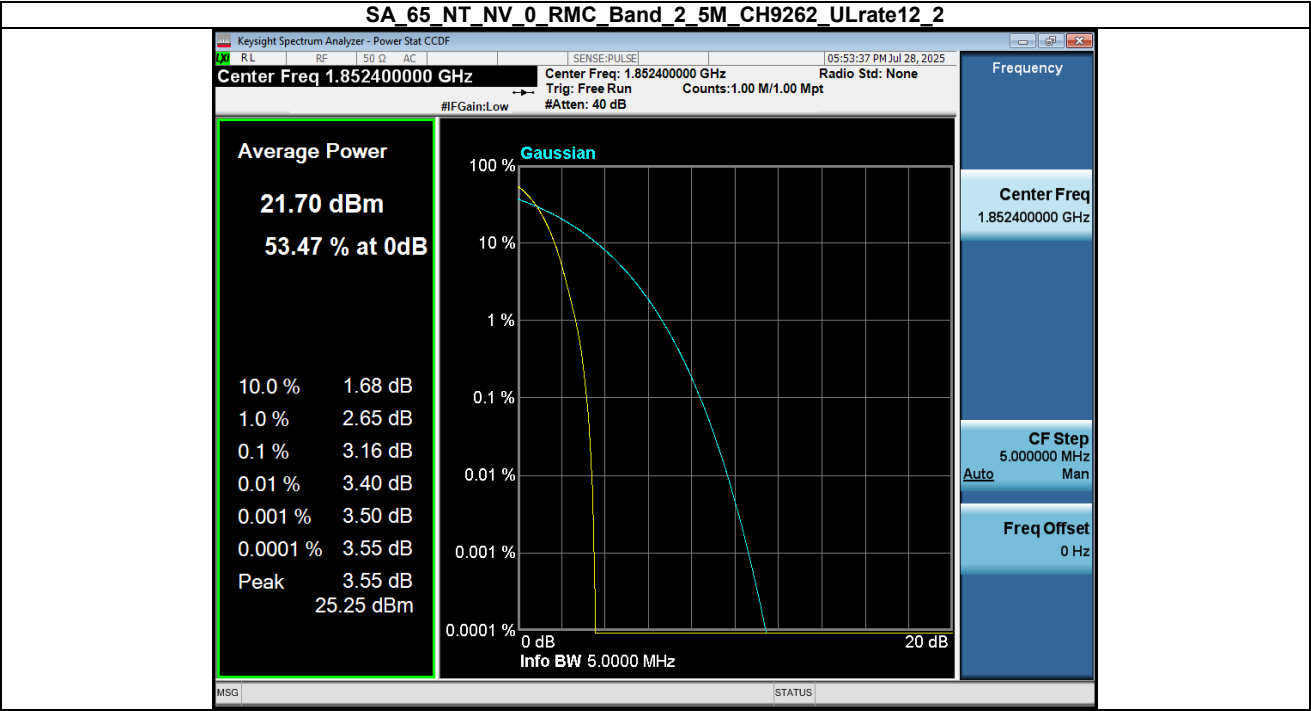


SA 65\_NT\_NV\_0\_RMC\_Band\_2\_5M\_CH9538\_ULrate12\_2

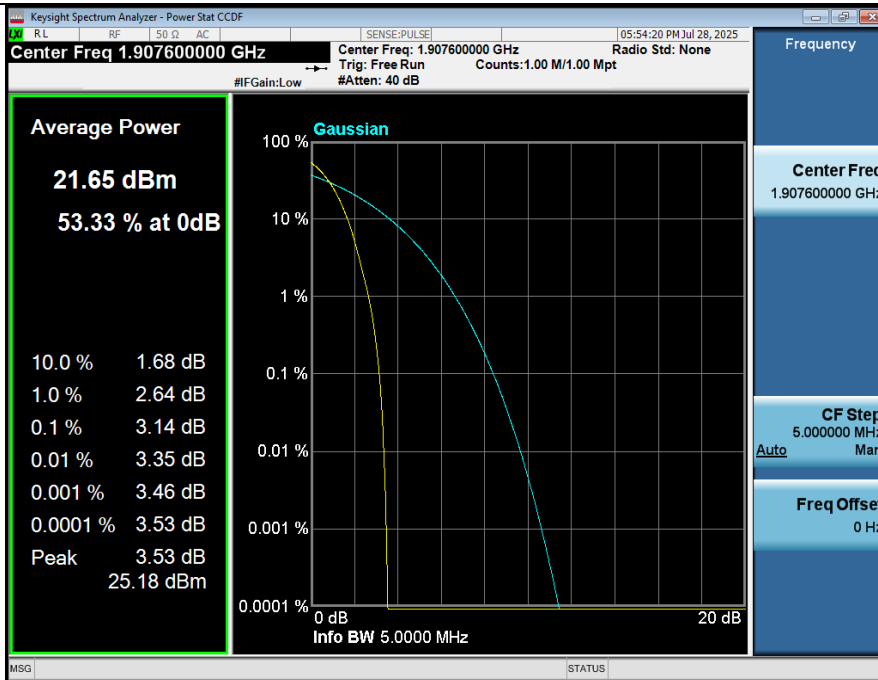


3. Peak to Average Ratio

| Condition | Mode | Band   | Frequency(MHz) | Data Rate | Peak to AVG Ratio-0.1%(dB) | Limit(dB) | Result |
|-----------|------|--------|----------------|-----------|----------------------------|-----------|--------|
| NVNT      | RMC  | Band 2 | 1852.4         | 12.2      | 3.16                       | 13.00     | Pass   |
| NVNT      | RMC  | Band 2 | 1880.0         | 12.2      | 3.14                       | 13.00     | Pass   |
| NVNT      | RMC  | Band 2 | 1907.6         | 12.2      | 3.14                       | 13.00     | Pass   |

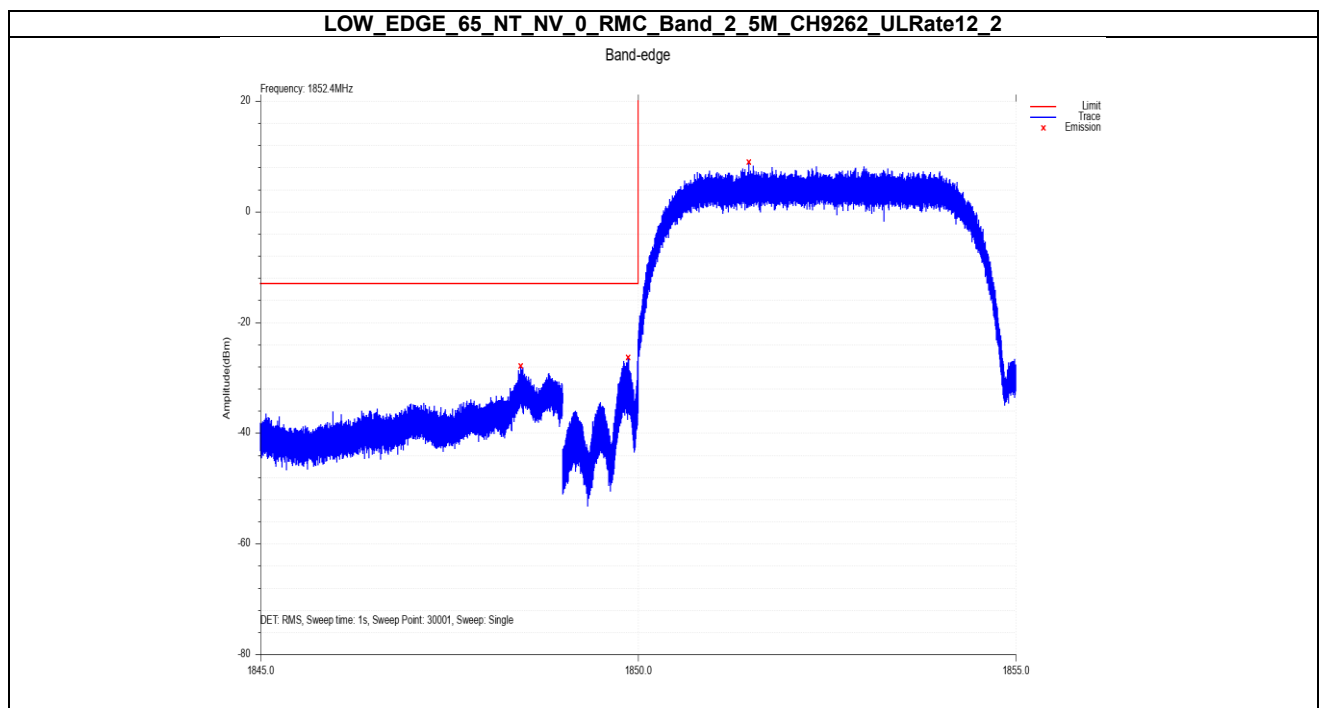


SA 65\_NT\_NV\_0\_RMC\_Band\_2\_5M\_CH9538\_ULrate12\_2



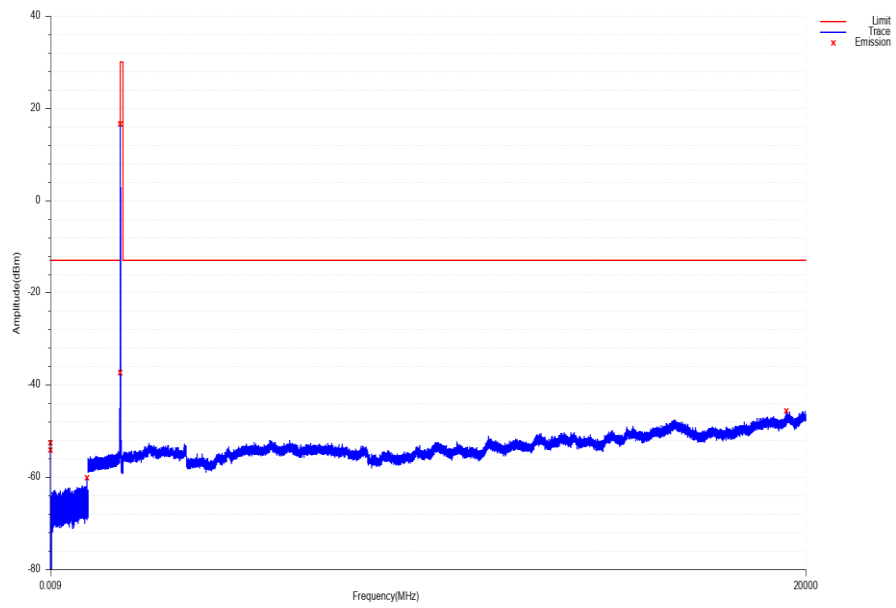
## 4. Unwanted Spurious Emission

| Condition | Mode | Band   | Frequency(MHz) | Data Rate | RBW(kHz) | Test Freq Range(MHz) | Spur Freq (MHz) | Spur Level(dBm) | Limit(dBm) | Result |
|-----------|------|--------|----------------|-----------|----------|----------------------|-----------------|-----------------|------------|--------|
| NVNT      | RMC  | Band 2 | 1852.40        | 12.2      | 1000     | 1845.0~1849.0        | 1848.444        | -27.90          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1852.40        | 12.2      | 50.0     | 1849.0~1850.0        | 1849.868        | -26.39          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1852.40        | 12.2      | 1        | 0.009~0.150          | 0.009           | -52.59          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1852.40        | 12.2      | 10       | 0.150~30.000         | 0.150           | -54.09          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1852.40        | 12.2      | 100      | 30.000~1000.000      | 963.172         | -60.19          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1852.40        | 12.2      | 1000     | 1000.000~1845.000    | 1844.718        | -37.37          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1852.40        | 12.2      | 1000     | 1915.000~20000.000   | 19493.017       | -45.57          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1880.00        | 12.2      | 1        | 0.009~0.150          | 0.010           | -53.36          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1880.00        | 12.2      | 10       | 0.150~30.000         | 0.155           | -55.05          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1880.00        | 12.2      | 100      | 30.000~1000.000      | 671.429         | -61.45          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1880.00        | 12.2      | 1000     | 1000.000~1845.000    | 1837.620        | -54.01          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1880.00        | 12.2      | 1000     | 1915.000~20000.000   | 19877.022       | -45.95          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1907.60        | 12.2      | 50.0     | 1910.0~1911.0        | 1910.188        | -27.57          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1907.60        | 12.2      | 1000     | 1911.0~1915.0        | 1911.170        | -28.35          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1907.60        | 12.2      | 1        | 0.009~0.150          | 0.010           | -53.66          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1907.60        | 12.2      | 10       | 0.150~30.000         | 0.161           | -57.20          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1907.60        | 12.2      | 100      | 30.000~1000.000      | 941.638         | -60.44          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1907.60        | 12.2      | 1000     | 1000.000~1845.000    | 1832.212        | -54.36          | -13        | Pass   |
| NVNT      | RMC  | Band 2 | 1907.60        | 12.2      | 1000     | 1915.000~20000.000   | 1915.000        | -42.88          | -13        | Pass   |



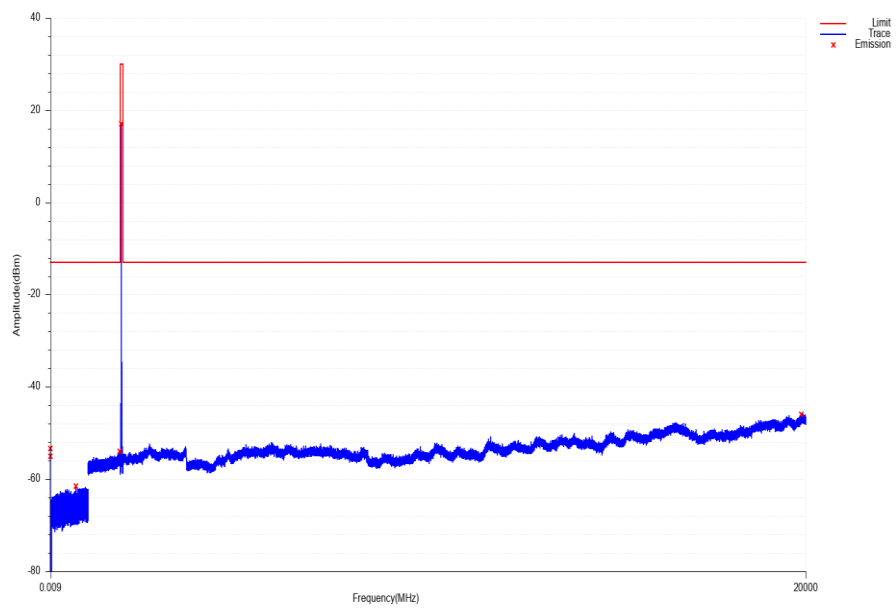
# SA\_65\_NT\_NV\_0\_RMC\_Band\_2\_5M\_CH9262\_ULRate12\_2

Unwanted spurious emissions

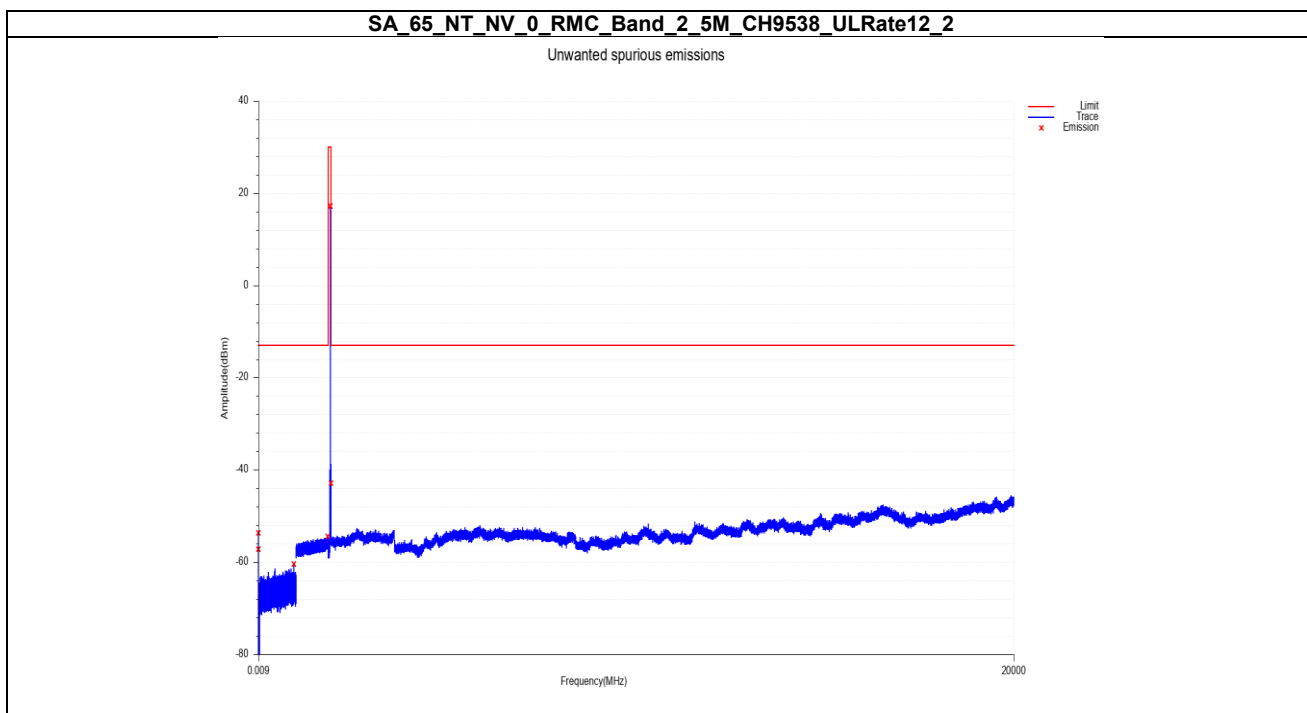
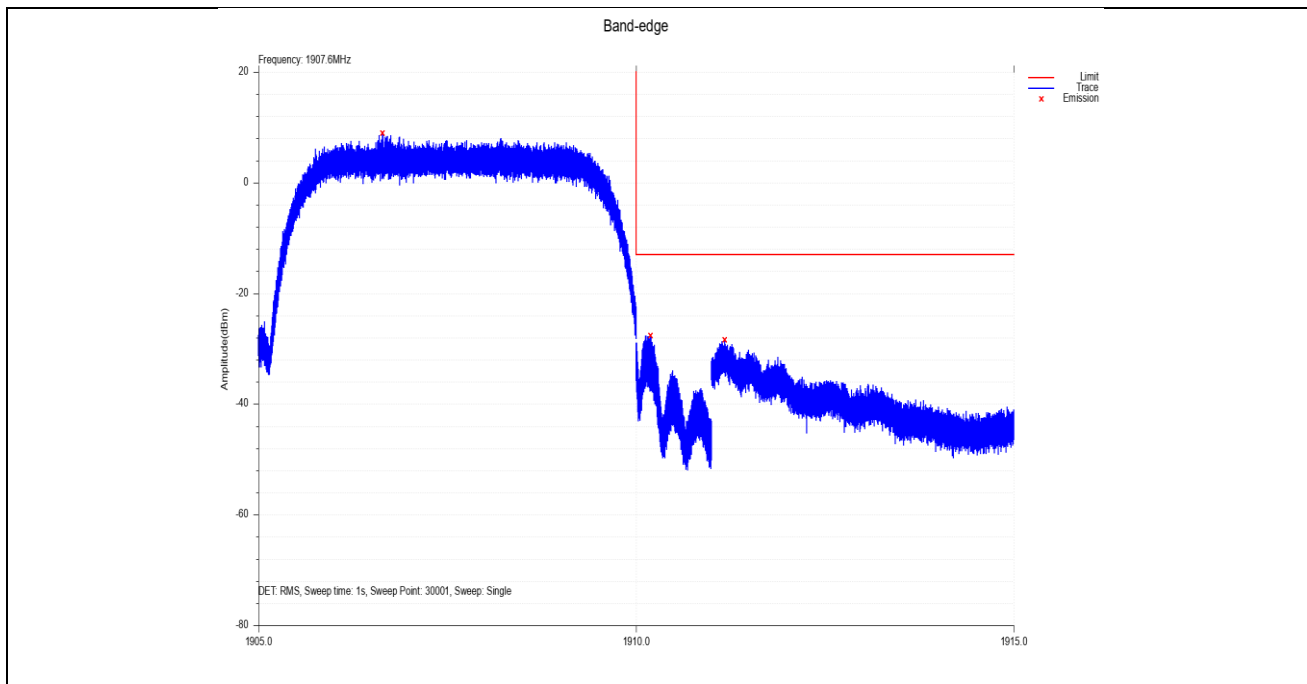


# SA\_65\_NT\_NV\_0\_RMC\_Band\_2\_5M\_CH9400\_ULRate12\_2

Unwanted spurious emissions



# UPPER\_EDGE\_65\_NT\_NV\_0\_RMC\_Band\_2\_5M\_CH9538\_ULRate12\_2



## 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 2 | 1852.4          | 12.2           | 0.0015                        | -2.50           | 2.50           | Pass   |
| -30              | 3.47        | R99        | Band 2 | 1880.0          | 12.2           | 0.0015                        | -2.50           | 2.50           | Pass   |
| -30              | 3.47        | R99        | Band 2 | 1907.6          | 12.2           | 0.0041                        | -2.50           | 2.50           | Pass   |
| -30              | 3.85        | R99        | Band 2 | 1852.4          | 12.2           | 0.0061                        | -2.50           | 2.50           | Pass   |
| -30              | 3.85        | R99        | Band 2 | 1880.0          | 12.2           | 0.0047                        | -2.50           | 2.50           | Pass   |
| -30              | 3.85        | R99        | Band 2 | 1907.6          | 12.2           | 0.0079                        | -2.50           | 2.50           | Pass   |
| -30              | 4.24        | R99        | Band 2 | 1852.4          | 12.2           | 0.0041                        | -2.50           | 2.50           | Pass   |
| -30              | 4.24        | R99        | Band 2 | 1880.0          | 12.2           | 0.0022                        | -2.50           | 2.50           | Pass   |
| -30              | 4.24        | R99        | Band 2 | 1907.6          | 12.2           | 0.0035                        | -2.50           | 2.50           | Pass   |
| -20              | 3.47        | R99        | Band 2 | 1852.4          | 12.2           | 0.0026                        | -2.50           | 2.50           | Pass   |
| -20              | 3.47        | R99        | Band 2 | 1880.0          | 12.2           | 0.0007                        | -2.50           | 2.50           | Pass   |
| -20              | 3.47        | R99        | Band 2 | 1907.6          | 12.2           | 0.0062                        | -2.50           | 2.50           | Pass   |
| -20              | 3.85        | R99        | Band 2 | 1852.4          | 12.2           | 0.0041                        | -2.50           | 2.50           | Pass   |
| -20              | 3.85        | R99        | Band 2 | 1880.0          | 12.2           | 0.0044                        | -2.50           | 2.50           | Pass   |
| -20              | 3.85        | R99        | Band 2 | 1907.6          | 12.2           | 0.0029                        | -2.50           | 2.50           | Pass   |
| -20              | 4.24        | R99        | Band 2 | 1852.4          | 12.2           | 0.0003                        | -2.50           | 2.50           | Pass   |
| -20              | 4.24        | R99        | Band 2 | 1880.0          | 12.2           | 0.0056                        | -2.50           | 2.50           | Pass   |
| -20              | 4.24        | R99        | Band 2 | 1907.6          | 12.2           | 0.0049                        | -2.50           | 2.50           | Pass   |
| -10              | 3.47        | R99        | Band 2 | 1852.4          | 12.2           | 0.0047                        | -2.50           | 2.50           | Pass   |
| -10              | 3.47        | R99        | Band 2 | 1880.0          | 12.2           | 0.0014                        | -2.50           | 2.50           | Pass   |
| -10              | 3.47        | R99        | Band 2 | 1907.6          | 12.2           | 0.0076                        | -2.50           | 2.50           | Pass   |
| -10              | 3.85        | R99        | Band 2 | 1852.4          | 12.2           | 0.0011                        | -2.50           | 2.50           | Pass   |
| -10              | 3.85        | R99        | Band 2 | 1880.0          | 12.2           | 0.0017                        | -2.50           | 2.50           | Pass   |
| -10              | 3.85        | R99        | Band 2 | 1907.6          | 12.2           | 0.0027                        | -2.50           | 2.50           | Pass   |
| -10              | 4.24        | R99        | Band 2 | 1852.4          | 12.2           | 0.0022                        | -2.50           | 2.50           | Pass   |
| -10              | 4.24        | R99        | Band 2 | 1880.0          | 12.2           | 0.0058                        | -2.50           | 2.50           | Pass   |
| -10              | 4.24        | R99        | Band 2 | 1907.6          | 12.2           | 0.0038                        | -2.50           | 2.50           | Pass   |
| 0                | 3.47        | R99        | Band 2 | 1852.4          | 12.2           | 0.0011                        | -2.50           | 2.50           | Pass   |
| 0                | 3.47        | R99        | Band 2 | 1880.0          | 12.2           | 0.0043                        | -2.50           | 2.50           | Pass   |
| 0                | 3.47        | R99        | Band 2 | 1907.6          | 12.2           | 0.0044                        | -2.50           | 2.50           | Pass   |
| 0                | 3.85        | R99        | Band 2 | 1852.4          | 12.2           | 0.0016                        | -2.50           | 2.50           | Pass   |
| 0                | 3.85        | R99        | Band 2 | 1880.0          | 12.2           | 0.0015                        | -2.50           | 2.50           | Pass   |
| 0                | 3.85        | R99        | Band 2 | 1907.6          | 12.2           | 0.0068                        | -2.50           | 2.50           | Pass   |
| 0                | 4.24        | R99        | Band 2 | 1852.4          | 12.2           | 0.0034                        | -2.50           | 2.50           | Pass   |
| 0                | 4.24        | R99        | Band 2 | 1880.0          | 12.2           | 0.0025                        | -2.50           | 2.50           | Pass   |
| 0                | 4.24        | R99        | Band 2 | 1907.6          | 12.2           | 0.0060                        | -2.50           | 2.50           | Pass   |
| 10               | 3.47        | R99        | Band 2 | 1852.4          | 12.2           | 0.0025                        | -2.50           | 2.50           | Pass   |
| 10               | 3.47        | R99        | Band 2 | 1880.0          | 12.2           | 0.0060                        | -2.50           | 2.50           | Pass   |
| 10               | 3.47        | R99        | Band 2 | 1907.6          | 12.2           | 0.0035                        | -2.50           | 2.50           | Pass   |
| 10               | 3.85        | R99        | Band 2 | 1852.4          | 12.2           | 0.0055                        | -2.50           | 2.50           | Pass   |
| 10               | 3.85        | R99        | Band 2 | 1880.0          | 12.2           | 0.0045                        | -2.50           | 2.50           | Pass   |
| 10               | 3.85        | R99        | Band 2 | 1907.6          | 12.2           | 0.0046                        | -2.50           | 2.50           | Pass   |
| 10               | 4.24        | R99        | Band 2 | 1852.4          | 12.2           | 0.0023                        | -2.50           | 2.50           | Pass   |
| 10               | 4.24        | R99        | Band 2 | 1880.0          | 12.2           | 0.0031                        | -2.50           | 2.50           | Pass   |
| 10               | 4.24        | R99        | Band 2 | 1907.6          | 12.2           | 0.0061                        | -2.50           | 2.50           | Pass   |
| 20               | 3.47        | R99        | Band 2 | 1852.4          | 12.2           | 0.0018                        | -2.50           | 2.50           | Pass   |
| 20               | 3.47        | R99        | Band 2 | 1880.0          | 12.2           | 0.0056                        | -2.50           | 2.50           | Pass   |
| 20               | 3.47        | R99        | Band 2 | 1907.6          | 12.2           | 0.0049                        | -2.50           | 2.50           | Pass   |
| 20               | 3.85        | R99        | Band 2 | 1852.4          | 12.2           | 0.0028                        | -2.50           | 2.50           | Pass   |
| 20               | 3.85        | R99        | Band 2 | 1880.0          | 12.2           | 0.0060                        | -2.50           | 2.50           | Pass   |
| 20               | 3.85        | R99        | Band 2 | 1907.6          | 12.2           | 0.0037                        | -2.50           | 2.50           | Pass   |
| 20               | 4.24        | R99        | Band 2 | 1852.4          | 12.2           | 0.0045                        | -2.50           | 2.50           | Pass   |
| 20               | 4.24        | R99        | Band 2 | 1880.0          | 12.2           | -0.0003                       | -2.50           | 2.50           | Pass   |
| 20               | 4.24        | R99        | Band 2 | 1907.6          | 12.2           | 0.0032                        | -2.50           | 2.50           | Pass   |
| 30               | 3.47        | R99        | Band 2 | 1852.4          | 12.2           | 0.0023                        | -2.50           | 2.50           | Pass   |
| 30               | 3.47        | R99        | Band 2 | 1880.0          | 12.2           | 0.0068                        | -2.50           | 2.50           | Pass   |
| 30               | 3.47        | R99        | Band 2 | 1907.6          | 12.2           | 0.0057                        | -2.50           | 2.50           | Pass   |
| 30               | 3.85        | R99        | Band 2 | 1852.4          | 12.2           | 0.0033                        | -2.50           | 2.50           | Pass   |
| 30               | 3.85        | R99        | Band 2 | 1880.0          | 12.2           | 0.0078                        | -2.50           | 2.50           | Pass   |
| 30               | 3.85        | R99        | Band 2 | 1907.6          | 12.2           | 0.0029                        | -2.50           | 2.50           | Pass   |
| 30               | 4.24        | R99        | Band 2 | 1852.4          | 12.2           | 0.0037                        | -2.50           | 2.50           | Pass   |
| 30               | 4.24        | R99        | Band 2 | 1880.0          | 12.2           | 0.0074                        | -2.50           | 2.50           | Pass   |
| 30               | 4.24        | R99        | Band 2 | 1907.6          | 12.2           | 0.0045                        | -2.50           | 2.50           | Pass   |
| 40               | 3.47        | R99        | Band 2 | 1852.4          | 12.2           | 0.0070                        | -2.50           | 2.50           | Pass   |
| 40               | 3.47        | R99        | Band 2 | 1880.0          | 12.2           | 0.0018                        | -2.50           | 2.50           | Pass   |

|    |      |     |        |        |      |         |       |      |      |
|----|------|-----|--------|--------|------|---------|-------|------|------|
| 40 | 3.47 | R99 | Band 2 | 1907.6 | 12.2 | 0.0024  | -2.50 | 2.50 | Pass |
| 40 | 3.85 | R99 | Band 2 | 1852.4 | 12.2 | 0.0043  | -2.50 | 2.50 | Pass |
| 40 | 3.85 | R99 | Band 2 | 1880.0 | 12.2 | 0.0043  | -2.50 | 2.50 | Pass |
| 40 | 3.85 | R99 | Band 2 | 1907.6 | 12.2 | 0.0037  | -2.50 | 2.50 | Pass |
| 40 | 4.24 | R99 | Band 2 | 1852.4 | 12.2 | 0.0020  | -2.50 | 2.50 | Pass |
| 40 | 4.24 | R99 | Band 2 | 1880.0 | 12.2 | 0.0043  | -2.50 | 2.50 | Pass |
| 40 | 4.24 | R99 | Band 2 | 1907.6 | 12.2 | 0.0037  | -2.50 | 2.50 | Pass |
| 50 | 3.47 | R99 | Band 2 | 1852.4 | 12.2 | 0.0027  | -2.50 | 2.50 | Pass |
| 50 | 3.47 | R99 | Band 2 | 1880.0 | 12.2 | 0.0010  | -2.50 | 2.50 | Pass |
| 50 | 3.47 | R99 | Band 2 | 1907.6 | 12.2 | 0.0023  | -2.50 | 2.50 | Pass |
| 50 | 3.85 | R99 | Band 2 | 1852.4 | 12.2 | 0.0025  | -2.50 | 2.50 | Pass |
| 50 | 3.85 | R99 | Band 2 | 1880.0 | 12.2 | 0.0033  | -2.50 | 2.50 | Pass |
| 50 | 3.85 | R99 | Band 2 | 1907.6 | 12.2 | 0.0057  | -2.50 | 2.50 | Pass |
| 50 | 4.24 | R99 | Band 2 | 1852.4 | 12.2 | -0.0001 | -2.50 | 2.50 | Pass |
| 50 | 4.24 | R99 | Band 2 | 1880.0 | 12.2 | 0.0021  | -2.50 | 2.50 | Pass |
| 50 | 4.24 | R99 | Band 2 | 1907.6 | 12.2 | 0.0039  | -2.50 | 2.50 | Pass |