

# WCDMA Band 5 HSDPA Test Data

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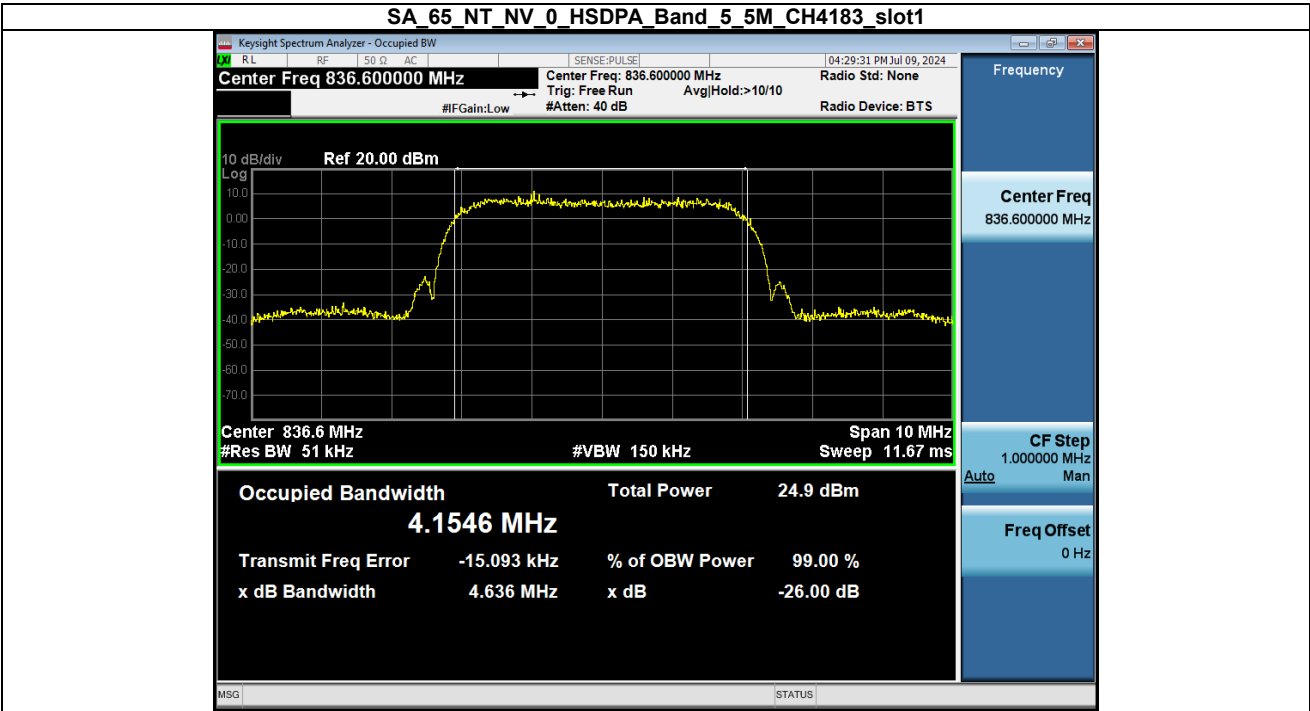
## 1. Conducted Output Power&&EIRP/ERP

| Condition | Mode  | Band   | Frequency(MHz) | Sub | Conducted Power(dBm) | ANT Gain(dBi) | ERP(dBm) | limit(dBm) | Result |
|-----------|-------|--------|----------------|-----|----------------------|---------------|----------|------------|--------|
| NVNT      | HSDPA | Band 5 | 826.4          | 1   | 22.56                | -6.1          | 14.31    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 826.4          | 2   | 21.98                | -6.1          | 13.73    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 826.4          | 3   | <b>22.84</b>         | -6.1          | 14.59    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 826.4          | 4   | 21.57                | -6.1          | 13.32    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 836.6          | 1   | 22.05                | -6.1          | 13.80    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 836.6          | 2   | 21.90                | -6.1          | 13.65    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 836.6          | 3   | 22.44                | -6.1          | 14.19    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 836.6          | 4   | 22.45                | -6.1          | 14.20    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 846.6          | 1   | 22.26                | -6.1          | 14.01    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 846.6          | 2   | 22.38                | -6.1          | 14.13    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 846.6          | 3   | 21.91                | -6.1          | 13.66    | 38.45      | Pass   |
| NVNT      | HSDPA | Band 5 | 846.6          | 4   | 22.17                | -6.1          | 13.92    | 38.45      | Pass   |

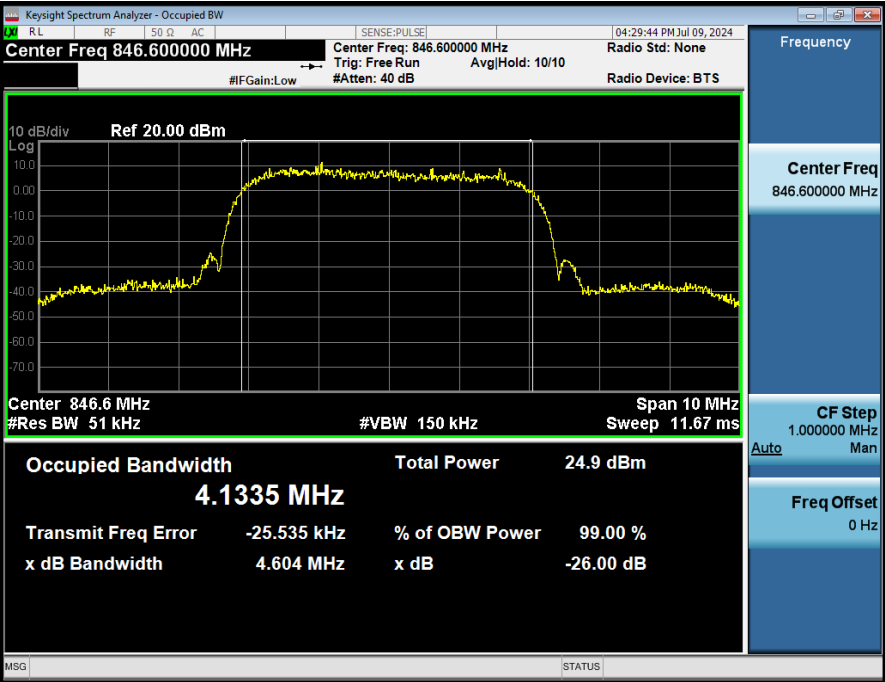
ERP = Conducted Power + ANT Gain - 2.15

2. Occupied Bandwidth

| Condition | Mode  | Band   | Frequency(MHz) | Sub | OBW(MHz) | -26EBW(MHz) |
|-----------|-------|--------|----------------|-----|----------|-------------|
| NVNT      | HSDPA | Band 5 | 826.4          | 1   | 4.0985   | 4.6674      |
| NVNT      | HSDPA | Band 5 | 836.6          | 1   | 4.1546   | 4.6364      |
| NVNT      | HSDPA | Band 5 | 846.6          | 1   | 4.1335   | 4.6041      |

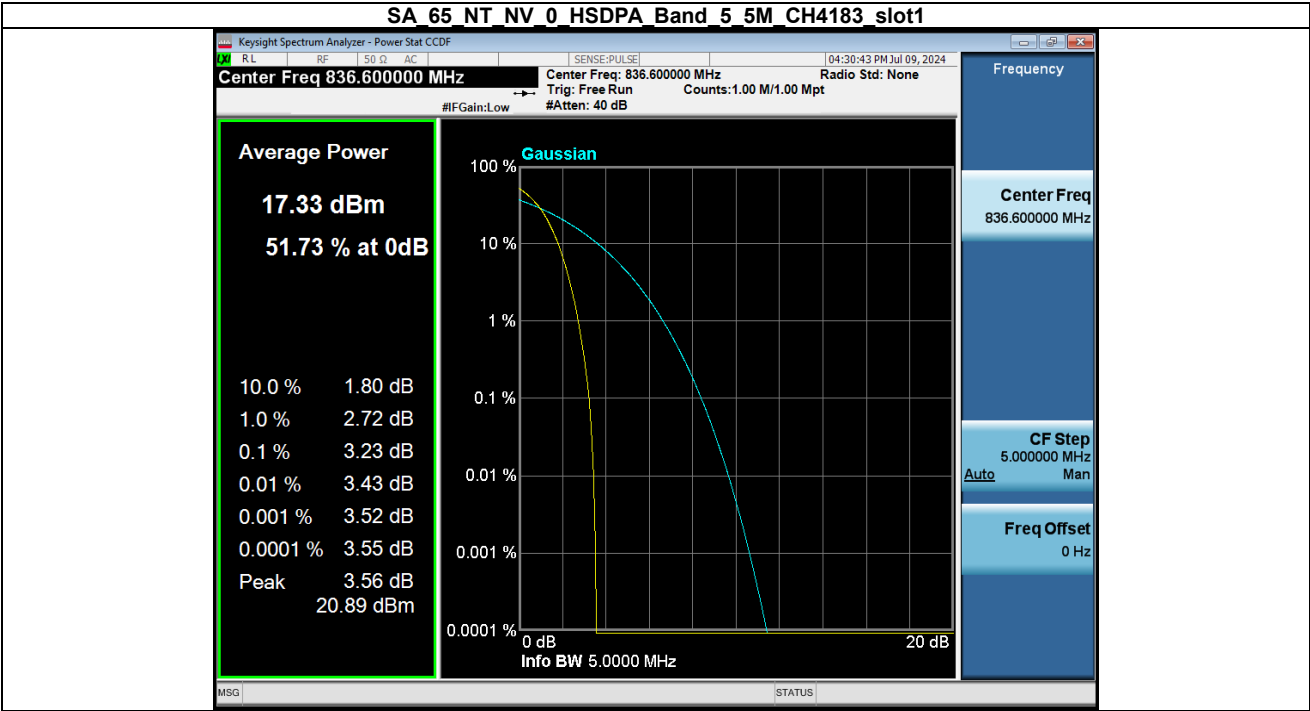


SA\_65\_NT\_NV\_0\_HSDPA\_Band\_5\_5M\_CH4233\_slot1

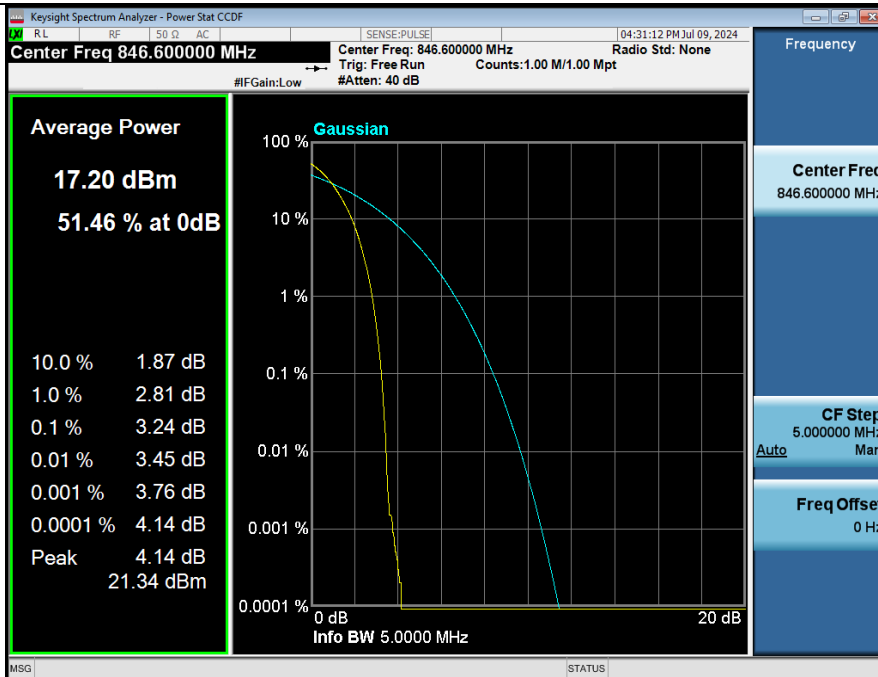


3. Peak to Average Ratio

| Condition | Mode  | Band   | Frequency(MHz) | Sub | Peak to AVG Ratio-0.1%(dB) | Limit(dB) | Result |
|-----------|-------|--------|----------------|-----|----------------------------|-----------|--------|
| NVNT      | HSDPA | Band 5 | 826.4          | 1   | 2.95                       | 13.00     | Pass   |
| NVNT      | HSDPA | Band 5 | 836.6          | 1   | 3.23                       | 13.00     | Pass   |
| NVNT      | HSDPA | Band 5 | 846.6          | 1   | 3.24                       | 13.00     | Pass   |

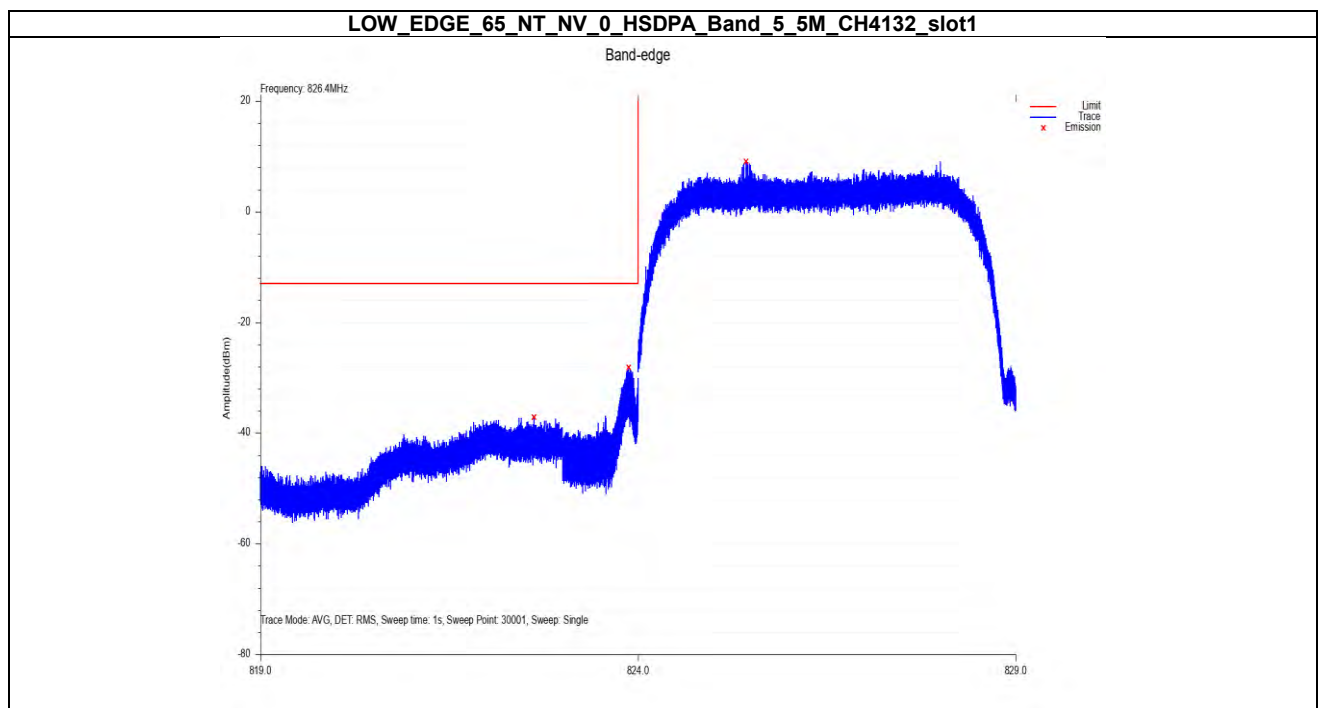


SA\_65\_NT\_NV\_0\_HSDPA\_Band\_5\_5M\_CH4233\_slot1



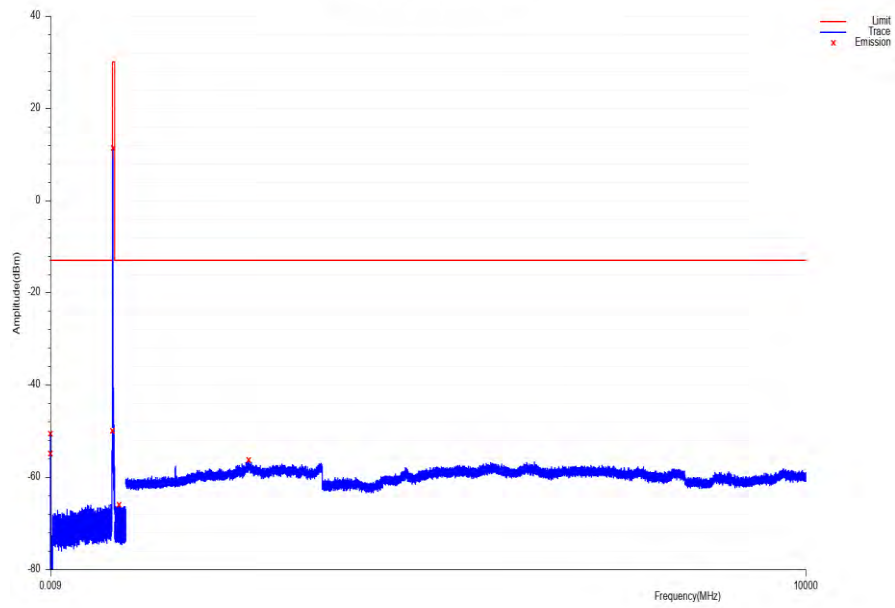
## 4. Unwanted Spurious Emission

| Condition | Mode  | Band   | Frequency(MHz) | Sub | RBW(kHz) | Test Freq Range(MHz) | Spur Freq (MHz) | Spur Level(dBm) | Limit(dBm) | Result |
|-----------|-------|--------|----------------|-----|----------|----------------------|-----------------|-----------------|------------|--------|
| NVNT      | HSDPA | Band 5 | 826.40         | 1   | 100      | 819.0~823.0          | 822.624         | -37.09          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 826.40         | 1   | 50.0     | 823.0~824.0          | 823.875         | -28.14          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 826.40         | 1   | 1        | 0.009~0.150          | 0.098           | -54.85          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 826.40         | 1   | 10       | 0.150~30.000         | 3.435           | -50.56          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 826.40         | 1   | 100      | 30.000~819.000       | 818.711         | -49.99          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 826.40         | 1   | 100      | 854.000~1000.000     | 910.736         | -65.99          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 826.40         | 1   | 1000     | 1000.000~10000.000   | 2621.500        | -56.27          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 836.60         | 1   | 1        | 0.009~0.150          | 0.099           | -55.24          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 836.60         | 1   | 10       | 0.150~30.000         | 3.579           | -49.67          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 836.60         | 1   | 100      | 30.000~819.000       | 711.617         | -65.77          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 836.60         | 1   | 100      | 854.000~1000.000     | 885.302         | -65.72          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 836.60         | 1   | 1000     | 1000.000~10000.000   | 2619.100        | -56.69          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 846.60         | 1   | 50.0     | 849.0~850.0          | 849.131         | -27.63          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 846.60         | 1   | 100      | 850.0~854.0          | 850.532         | -36.94          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 846.60         | 1   | 1        | 0.009~0.150          | 0.098           | -55.89          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 846.60         | 1   | 10       | 0.150~30.000         | 3.645           | -51.73          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 846.60         | 1   | 100      | 30.000~819.000       | 450.353         | -66.09          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 846.60         | 1   | 100      | 854.000~1000.000     | 986.344         | -66.04          | -13        | Pass   |
| NVNT      | HSDPA | Band 5 | 846.60         | 1   | 1000     | 1000.000~10000.000   | 2626.900        | -56.86          | -13        | Pass   |



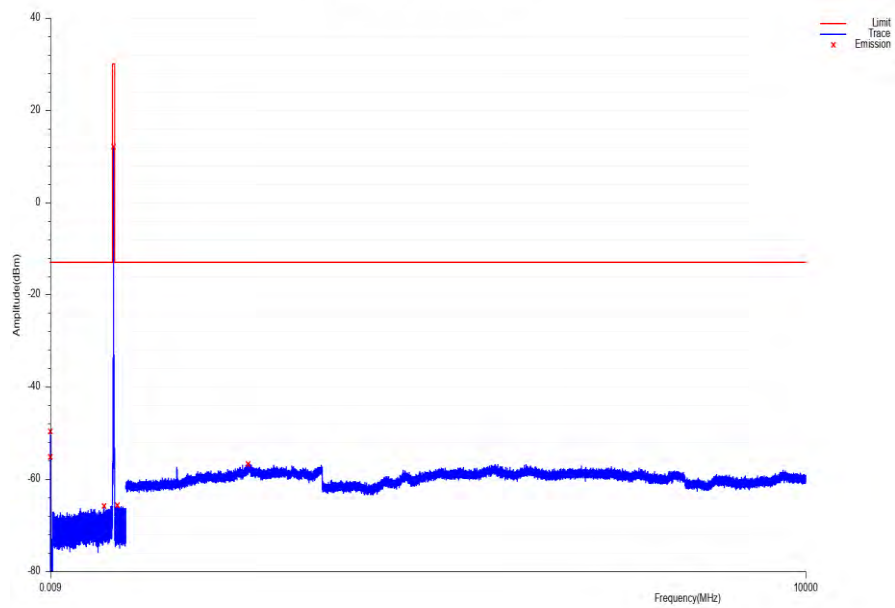
### SA\_65\_NT\_NV\_0\_HSDPA\_Band\_5\_5M\_CH4132\_slot1

Unwanted spurious emissions

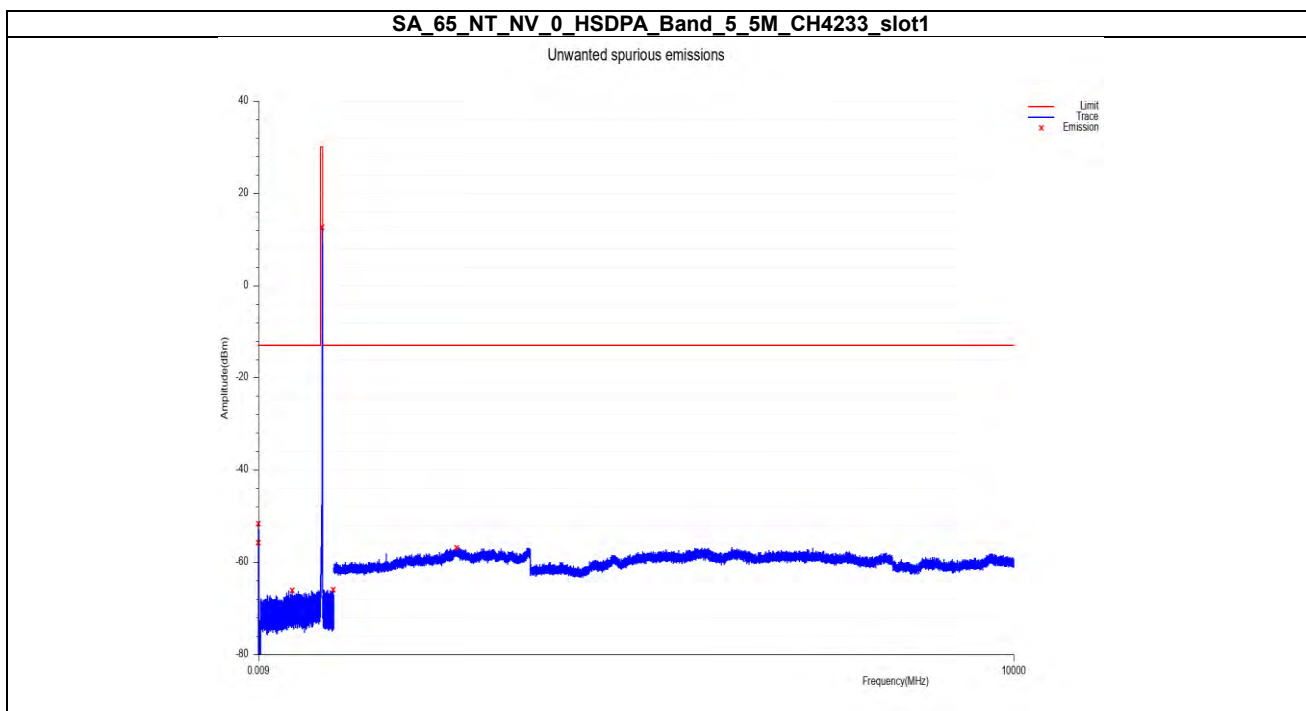
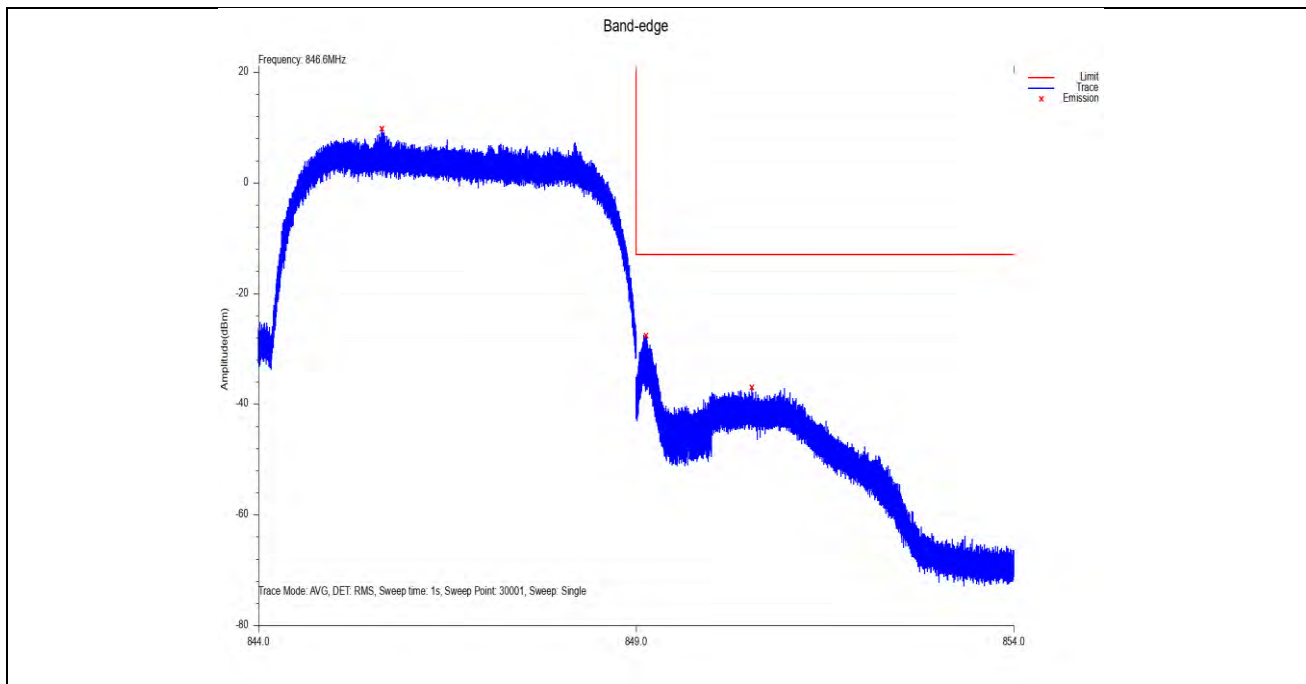


### SA\_65\_NT\_NV\_0\_HSDPA\_Band\_5\_5M\_CH4183\_slot1

Unwanted spurious emissions



### UPPER\_EDGE\_65\_NT\_NV\_0\_HSDPA\_Band\_5\_5M\_CH4233\_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        | HSDPA      | Band 5 | 826.4           | 1   | -0.0103                       | -2.50           | 2.50           | Pass   |
| -30             | 3.3        | HSDPA      | Band 5 | 836.6           | 1   | -0.0064                       | -2.50           | 2.50           | Pass   |
| -30             | 3.3        | HSDPA      | Band 5 | 846.6           | 1   | -0.0047                       | -2.50           | 2.50           | Pass   |
| -30             | 3.8        | HSDPA      | Band 5 | 826.4           | 1   | -0.0044                       | -2.50           | 2.50           | Pass   |
| -30             | 3.8        | HSDPA      | Band 5 | 836.6           | 1   | -0.0054                       | -2.50           | 2.50           | Pass   |
| -30             | 3.8        | HSDPA      | Band 5 | 846.6           | 1   | -0.0049                       | -2.50           | 2.50           | Pass   |
| -30             | 4.2        | HSDPA      | Band 5 | 826.4           | 1   | -0.0051                       | -2.50           | 2.50           | Pass   |
| -30             | 4.2        | HSDPA      | Band 5 | 836.6           | 1   | -0.0057                       | -2.50           | 2.50           | Pass   |
| -30             | 4.2        | HSDPA      | Band 5 | 846.6           | 1   | -0.0027                       | -2.50           | 2.50           | Pass   |
| -20             | 3.3        | HSDPA      | Band 5 | 826.4           | 1   | -0.0042                       | -2.50           | 2.50           | Pass   |
| -20             | 3.3        | HSDPA      | Band 5 | 836.6           | 1   | -0.0057                       | -2.50           | 2.50           | Pass   |
| -20             | 3.3        | HSDPA      | Band 5 | 846.6           | 1   | -0.0020                       | -2.50           | 2.50           | Pass   |
| -20             | 3.8        | HSDPA      | Band 5 | 826.4           | 1   | -0.0058                       | -2.50           | 2.50           | Pass   |
| -20             | 3.8        | HSDPA      | Band 5 | 836.6           | 1   | -0.0028                       | -2.50           | 2.50           | Pass   |
| -20             | 3.8        | HSDPA      | Band 5 | 846.6           | 1   | -0.0047                       | -2.50           | 2.50           | Pass   |
| -20             | 4.2        | HSDPA      | Band 5 | 826.4           | 1   | -0.0017                       | -2.50           | 2.50           | Pass   |
| -20             | 4.2        | HSDPA      | Band 5 | 836.6           | 1   | -0.0087                       | -2.50           | 2.50           | Pass   |
| -20             | 4.2        | HSDPA      | Band 5 | 846.6           | 1   | -0.0029                       | -2.50           | 2.50           | Pass   |
| -10             | 3.3        | HSDPA      | Band 5 | 826.4           | 1   | -0.0011                       | -2.50           | 2.50           | Pass   |
| -10             | 3.3        | HSDPA      | Band 5 | 836.6           | 1   | -0.0062                       | -2.50           | 2.50           | Pass   |
| -10             | 3.3        | HSDPA      | Band 5 | 846.6           | 1   | -0.0013                       | -2.50           | 2.50           | Pass   |
| -10             | 3.8        | HSDPA      | Band 5 | 826.4           | 1   | -0.0041                       | -2.50           | 2.50           | Pass   |
| -10             | 3.8        | HSDPA      | Band 5 | 836.6           | 1   | -0.0053                       | -2.50           | 2.50           | Pass   |
| -10             | 3.8        | HSDPA      | Band 5 | 846.6           | 1   | -0.0030                       | -2.50           | 2.50           | Pass   |
| -10             | 4.2        | HSDPA      | Band 5 | 826.4           | 1   | -0.0018                       | -2.50           | 2.50           | Pass   |
| -10             | 4.2        | HSDPA      | Band 5 | 836.6           | 1   | -0.0067                       | -2.50           | 2.50           | Pass   |
| -10             | 4.2        | HSDPA      | Band 5 | 846.6           | 1   | -0.0013                       | -2.50           | 2.50           | Pass   |
| 0               | 3.3        | HSDPA      | Band 5 | 826.4           | 1   | -0.0042                       | -2.50           | 2.50           | Pass   |
| 0               | 3.3        | HSDPA      | Band 5 | 836.6           | 1   | -0.0085                       | -2.50           | 2.50           | Pass   |
| 0               | 3.3        | HSDPA      | Band 5 | 846.6           | 1   | -0.0019                       | -2.50           | 2.50           | Pass   |
| 0               | 3.8        | HSDPA      | Band 5 | 826.4           | 1   | -0.0055                       | -2.50           | 2.50           | Pass   |
| 0               | 3.8        | HSDPA      | Band 5 | 836.6           | 1   | -0.0027                       | -2.50           | 2.50           | Pass   |
| 0               | 3.8        | HSDPA      | Band 5 | 846.6           | 1   | 0.0003                        | -2.50           | 2.50           | Pass   |
| 0               | 4.2        | HSDPA      | Band   | 826.4           | 1   | -0.0003                       | -2.50           | 2.50           | Pass   |

|    |     |       |        |       |   |         |       |      |      |
|----|-----|-------|--------|-------|---|---------|-------|------|------|
|    |     |       | 5      |       |   |         |       |      |      |
| 0  | 4.2 | HSDPA | Band 5 | 836.6 | 1 | -0.0050 | -2.50 | 2.50 | Pass |
| 0  | 4.2 | HSDPA | Band 5 | 846.6 | 1 | -0.0028 | -2.50 | 2.50 | Pass |
| 10 | 3.3 | HSDPA | Band 5 | 826.4 | 1 | -0.0019 | -2.50 | 2.50 | Pass |
| 10 | 3.3 | HSDPA | Band 5 | 836.6 | 1 | -0.0067 | -2.50 | 2.50 | Pass |
| 10 | 3.3 | HSDPA | Band 5 | 846.6 | 1 | -0.0032 | -2.50 | 2.50 | Pass |
| 10 | 3.8 | HSDPA | Band 5 | 826.4 | 1 | -0.0041 | -2.50 | 2.50 | Pass |
| 10 | 3.8 | HSDPA | Band 5 | 836.6 | 1 | -0.0078 | -2.50 | 2.50 | Pass |
| 10 | 3.8 | HSDPA | Band 5 | 846.6 | 1 | -0.0016 | -2.50 | 2.50 | Pass |
| 10 | 4.2 | HSDPA | Band 5 | 826.4 | 1 | -0.0037 | -2.50 | 2.50 | Pass |
| 10 | 4.2 | HSDPA | Band 5 | 836.6 | 1 | -0.0059 | -2.50 | 2.50 | Pass |
| 10 | 4.2 | HSDPA | Band 5 | 846.6 | 1 | -0.0039 | -2.50 | 2.50 | Pass |
| 20 | 3.3 | HSDPA | Band 5 | 826.4 | 1 | -0.0032 | -2.50 | 2.50 | Pass |
| 20 | 3.3 | HSDPA | Band 5 | 836.6 | 1 | -0.0056 | -2.50 | 2.50 | Pass |
| 20 | 3.3 | HSDPA | Band 5 | 846.6 | 1 | -0.0044 | -2.50 | 2.50 | Pass |
| 20 | 3.8 | HSDPA | Band 5 | 826.4 | 1 | -0.0061 | -2.50 | 2.50 | Pass |
| 20 | 3.8 | HSDPA | Band 5 | 836.6 | 1 | -0.0057 | -2.50 | 2.50 | Pass |
| 20 | 3.8 | HSDPA | Band 5 | 846.6 | 1 | -0.0034 | -2.50 | 2.50 | Pass |
| 20 | 4.2 | HSDPA | Band 5 | 826.4 | 1 | -0.0056 | -2.50 | 2.50 | Pass |
| 20 | 4.2 | HSDPA | Band 5 | 836.6 | 1 | -0.0081 | -2.50 | 2.50 | Pass |
| 20 | 4.2 | HSDPA | Band 5 | 846.6 | 1 | -0.0048 | -2.50 | 2.50 | Pass |
| 30 | 3.3 | HSDPA | Band 5 | 826.4 | 1 | -0.0063 | -2.50 | 2.50 | Pass |
| 30 | 3.3 | HSDPA | Band 5 | 836.6 | 1 | -0.0076 | -2.50 | 2.50 | Pass |
| 30 | 3.3 | HSDPA | Band 5 | 846.6 | 1 | -0.0042 | -2.50 | 2.50 | Pass |
| 30 | 3.8 | HSDPA | Band 5 | 826.4 | 1 | -0.0022 | -2.50 | 2.50 | Pass |
| 30 | 3.8 | HSDPA | Band 5 | 836.6 | 1 | -0.0094 | -2.50 | 2.50 | Pass |
| 30 | 3.8 | HSDPA | Band 5 | 846.6 | 1 | -0.0008 | -2.50 | 2.50 | Pass |
| 30 | 4.2 | HSDPA | Band 5 | 826.4 | 1 | -0.0010 | -2.50 | 2.50 | Pass |
| 30 | 4.2 | HSDPA | Band 5 | 836.6 | 1 | -0.0084 | -2.50 | 2.50 | Pass |
| 30 | 4.2 | HSDPA | Band 5 | 846.6 | 1 | -0.0051 | -2.50 | 2.50 | Pass |
| 40 | 3.3 | HSDPA | Band 5 | 826.4 | 1 | -0.0017 | -2.50 | 2.50 | Pass |
| 40 | 3.3 | HSDPA | Band 5 | 836.6 | 1 | -0.0063 | -2.50 | 2.50 | Pass |
| 40 | 3.3 | HSDPA | Band 5 | 846.6 | 1 | -0.0029 | -2.50 | 2.50 | Pass |
| 40 | 3.8 | HSDPA | Band 5 | 826.4 | 1 | -0.0031 | -2.50 | 2.50 | Pass |
| 40 | 3.8 | HSDPA | Band 5 | 836.6 | 1 | -0.0056 | -2.50 | 2.50 | Pass |
| 40 | 3.8 | HSDPA | Band 5 | 846.6 | 1 | -0.0004 | -2.50 | 2.50 | Pass |
| 40 | 4.2 | HSDPA | Band 5 | 826.4 | 1 | -0.0036 | -2.50 | 2.50 | Pass |
| 40 | 4.2 | HSDPA | Band 5 | 836.6 | 1 | -0.0067 | -2.50 | 2.50 | Pass |
| 40 | 4.2 | HSDPA | Band 5 | 846.6 | 1 | -0.0020 | -2.50 | 2.50 | Pass |

|    |     |       |        |       |   |         |       |      |      |
|----|-----|-------|--------|-------|---|---------|-------|------|------|
| 50 | 3.3 | HSDPA | Band 5 | 826.4 | 1 | -0.0047 | -2.50 | 2.50 | Pass |
| 50 | 3.3 | HSDPA | Band 5 | 836.6 | 1 | -0.0046 | -2.50 | 2.50 | Pass |
| 50 | 3.3 | HSDPA | Band 5 | 846.6 | 1 | -0.0010 | -2.50 | 2.50 | Pass |
| 50 | 3.8 | HSDPA | Band 5 | 826.4 | 1 | -0.0021 | -2.50 | 2.50 | Pass |
| 50 | 3.8 | HSDPA | Band 5 | 836.6 | 1 | -0.0057 | -2.50 | 2.50 | Pass |
| 50 | 3.8 | HSDPA | Band 5 | 846.6 | 1 | -0.0016 | -2.50 | 2.50 | Pass |
| 50 | 4.2 | HSDPA | Band 5 | 826.4 | 1 | -0.0047 | -2.50 | 2.50 | Pass |
| 50 | 4.2 | HSDPA | Band 5 | 836.6 | 1 | -0.0049 | -2.50 | 2.50 | Pass |
| 50 | 4.2 | HSDPA | Band 5 | 846.6 | 1 | -0.0047 | -2.50 | 2.50 | Pass |