

# DCS 1900 Test Data

FCC ID: 2AO94-GT110

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

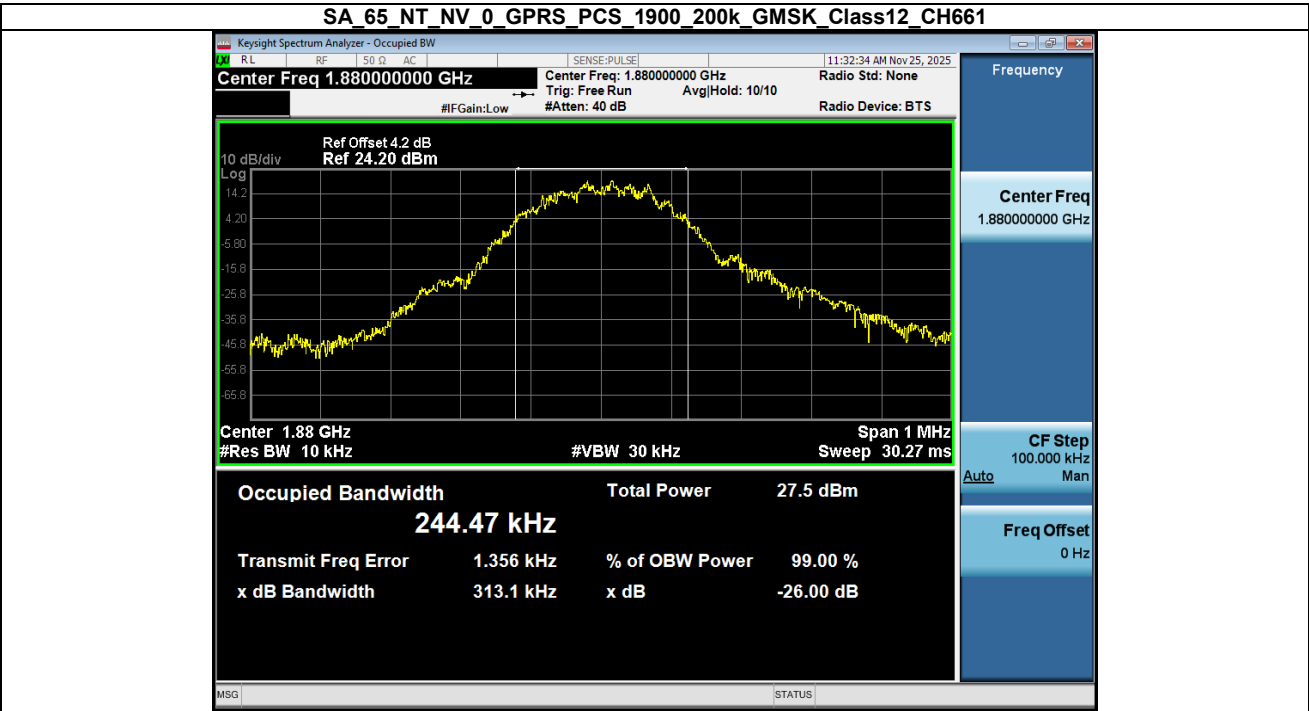
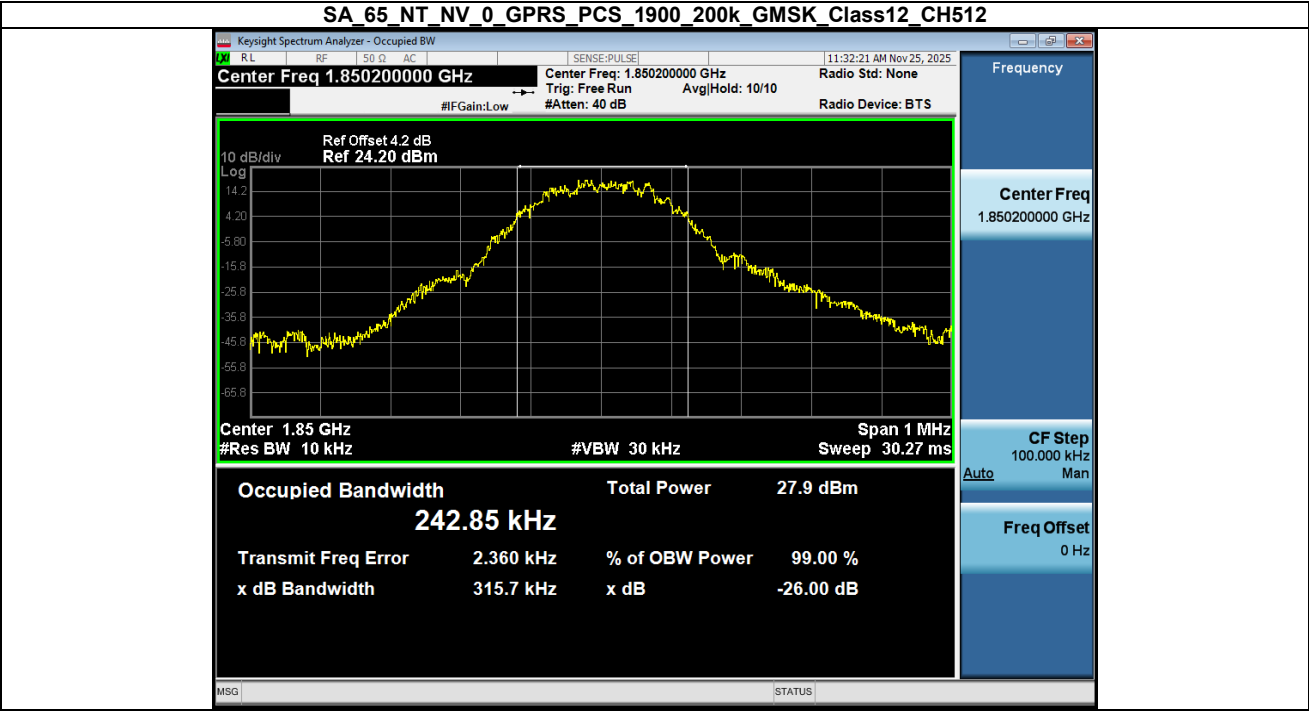
| Services | Band     | Modulation | Class Type | Frequency(MHz) | Conducted Power(dBm) | ANT Gain(dBi) | EIRP(dBm) | limit(dBm) | Result |
|----------|----------|------------|------------|----------------|----------------------|---------------|-----------|------------|--------|
| GPRS     | PCS 1900 | GMSK       | Class8     | 1850.2         | 27.71                | 2.97          | 30.68     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class10    | 1850.2         | 28.30                | 2.97          | 31.27     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class11    | 1850.2         | <b>28.56</b>         | 2.97          | 31.53     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2         | 28.13                | 2.97          | 31.10     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class8     | 1880.0         | 28.33                | 2.97          | 31.30     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class10    | 1880.0         | 28.28                | 2.97          | 31.25     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class11    | 1880.0         | 27.77                | 2.97          | 30.74     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0         | 27.64                | 2.97          | 30.61     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class8     | 1909.8         | 27.64                | 2.97          | 30.61     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class10    | 1909.8         | 27.97                | 2.97          | 30.94     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class11    | 1909.8         | 27.55                | 2.97          | 30.52     | 33.01      | Pass   |
| GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8         | 27.97                | 2.97          | 30.94     | 33.01      | Pass   |

| Services | Band     | Modulation | Class Type | Frequency (MHz) | Conducted Power(dBm) | ANT Gain(dBi) | EIRP(dBm) | limit(dBm) | Result |
|----------|----------|------------|------------|-----------------|----------------------|---------------|-----------|------------|--------|
| EGPRS    | PCS 1900 | GMSK       | Class8     | 1850.2          | 27.60                | 2.97          | 30.57     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class10    | 1850.2          | 27.51                | 2.97          | 30.48     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class11    | 1850.2          | 27.64                | 2.97          | 30.61     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class12    | 1850.2          | 28.13                | 2.97          | 31.10     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class8     | 1850.2          | <b>28.48</b>         | 2.97          | 31.45     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class10    | 1850.2          | 28.44                | 2.97          | 31.41     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class11    | 1850.2          | 28.22                | 2.97          | 31.19     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | 27.57                | 2.97          | 30.54     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class8     | 1880.0          | 28.38                | 2.97          | 31.35     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class10    | 1880.0          | 27.50                | 2.97          | 30.47     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class11    | 1880.0          | 28.28                | 2.97          | 31.25     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class12    | 1880.0          | 27.97                | 2.97          | 30.94     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class8     | 1880.0          | 27.83                | 2.97          | 30.80     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class10    | 1880.0          | 28.21                | 2.97          | 31.18     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class11    | 1880.0          | 27.55                | 2.97          | 30.52     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 28.46                | 2.97          | 31.43     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class8     | 1909.8          | 28.13                | 2.97          | 31.10     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class10    | 1909.8          | 27.87                | 2.97          | 30.84     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class11    | 1909.8          | 28.14                | 2.97          | 31.11     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | GMSK       | Class12    | 1909.8          | 28.13                | 2.97          | 31.10     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class8     | 1909.8          | 28.16                | 2.97          | 31.13     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class10    | 1909.8          | 28.02                | 2.97          | 30.99     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class11    | 1909.8          | 28.17                | 2.97          | 31.14     | 33.01      | Pass   |
| EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 27.69                | 2.97          | 30.66     | 33.01      | Pass   |

EIRP = Conducted Power + ANT Gain

2. Occupied Bandwidth

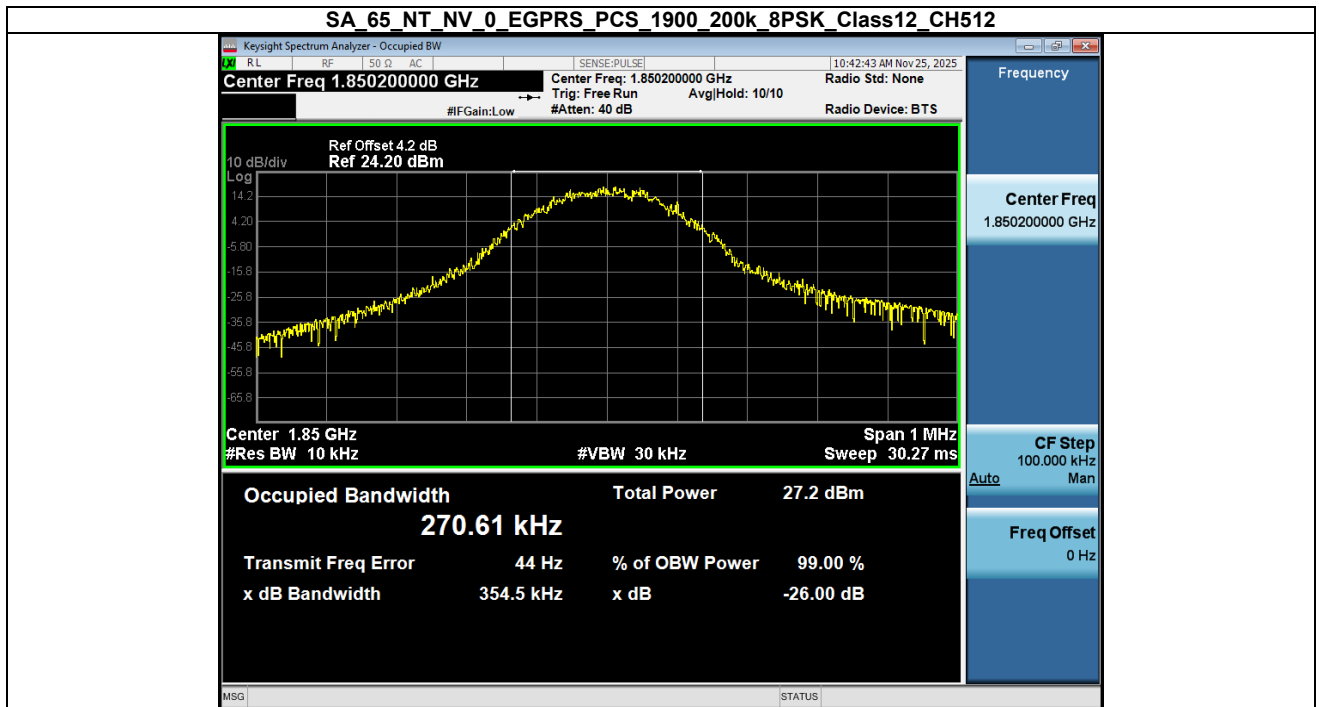
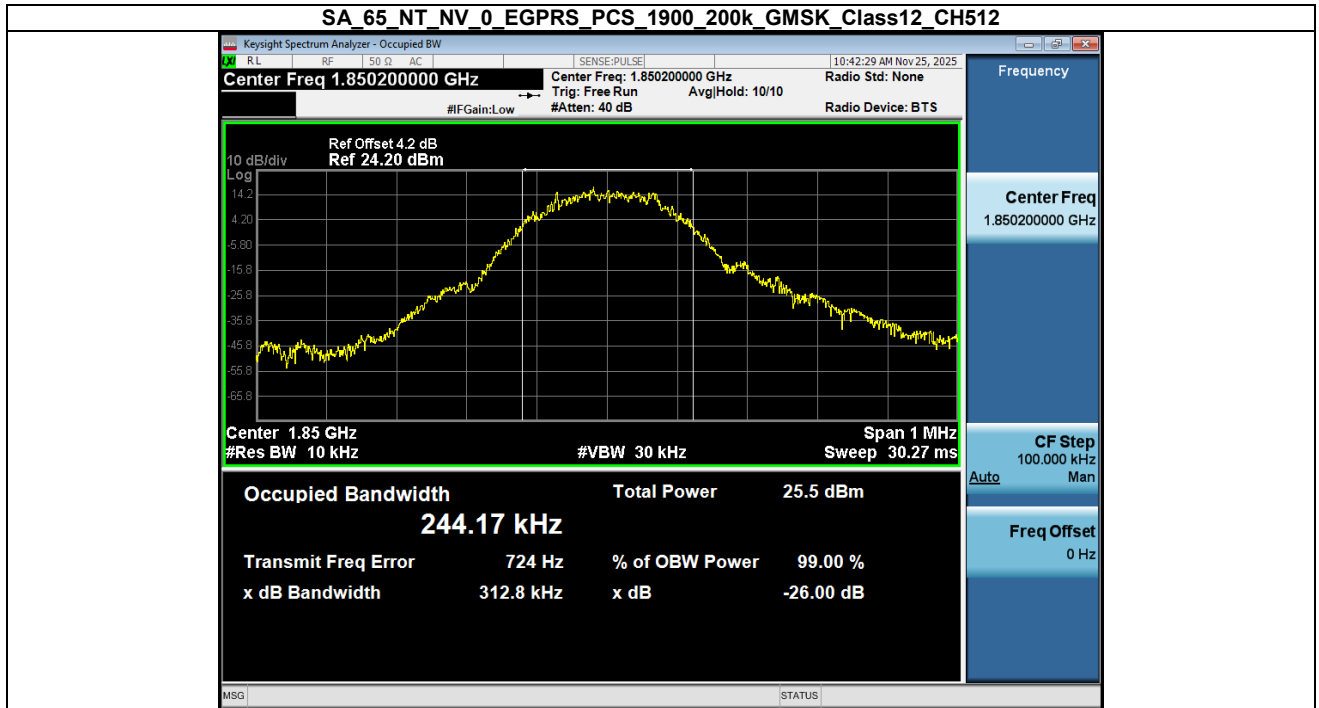
| Condition | Services | Band     | Modulation | Class Type | Frequency(MHz) | OBW(MHz) | 26EBW(MHz) |
|-----------|----------|----------|------------|------------|----------------|----------|------------|
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2         | 0.2428   | 0.3157     |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0         | 0.2445   | 0.3131     |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8         | 0.2447   | 0.3215     |



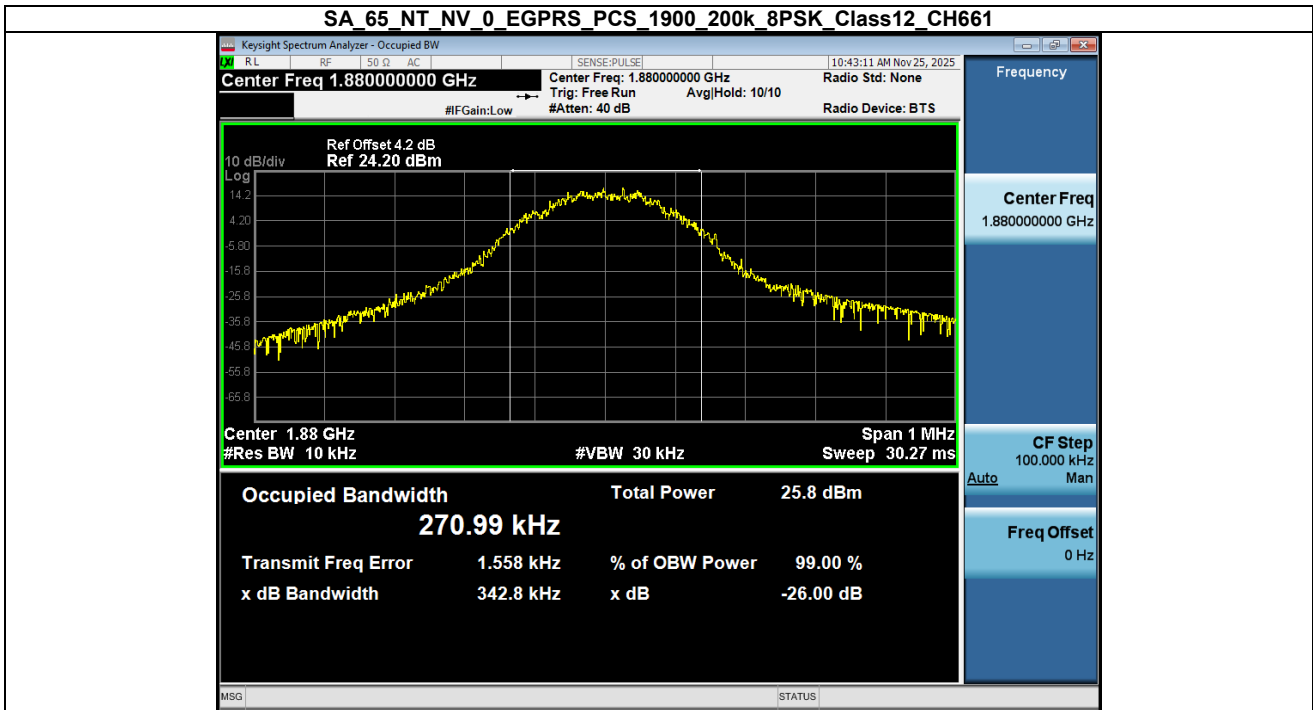
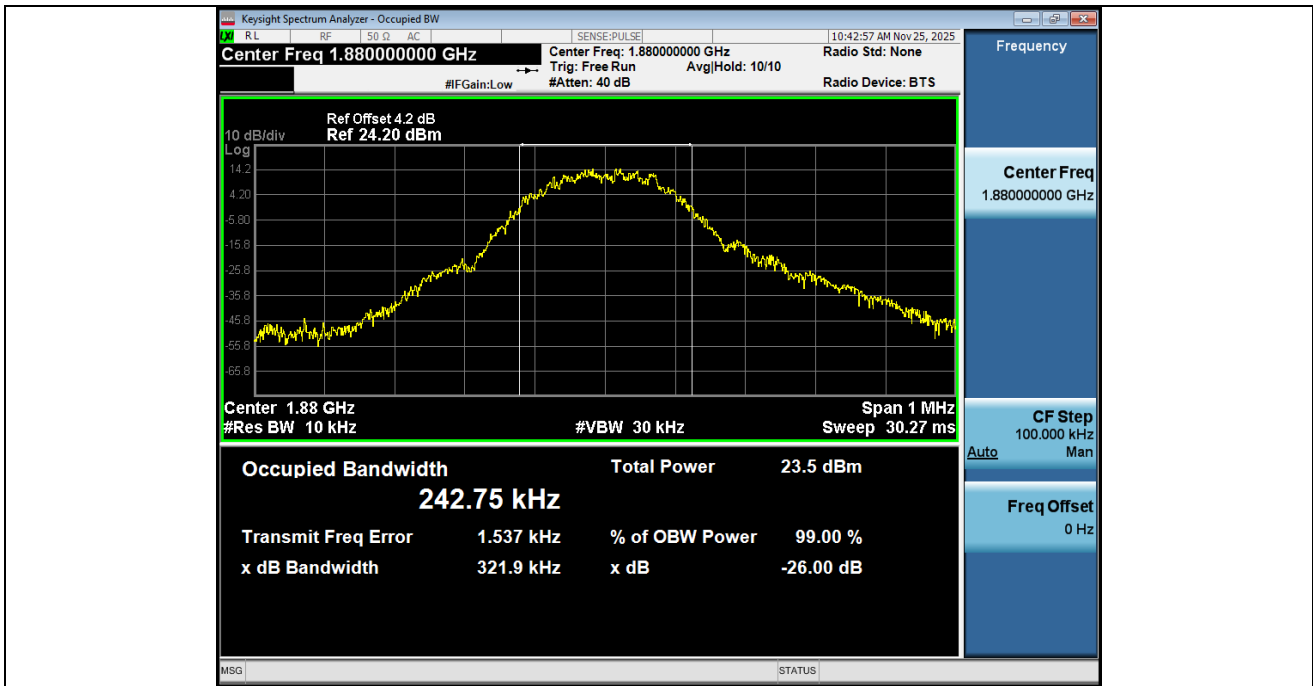
SA\_65\_NT\_NV\_0\_GPRS\_PCS\_1900\_200k\_GMSK\_Class12\_CH810



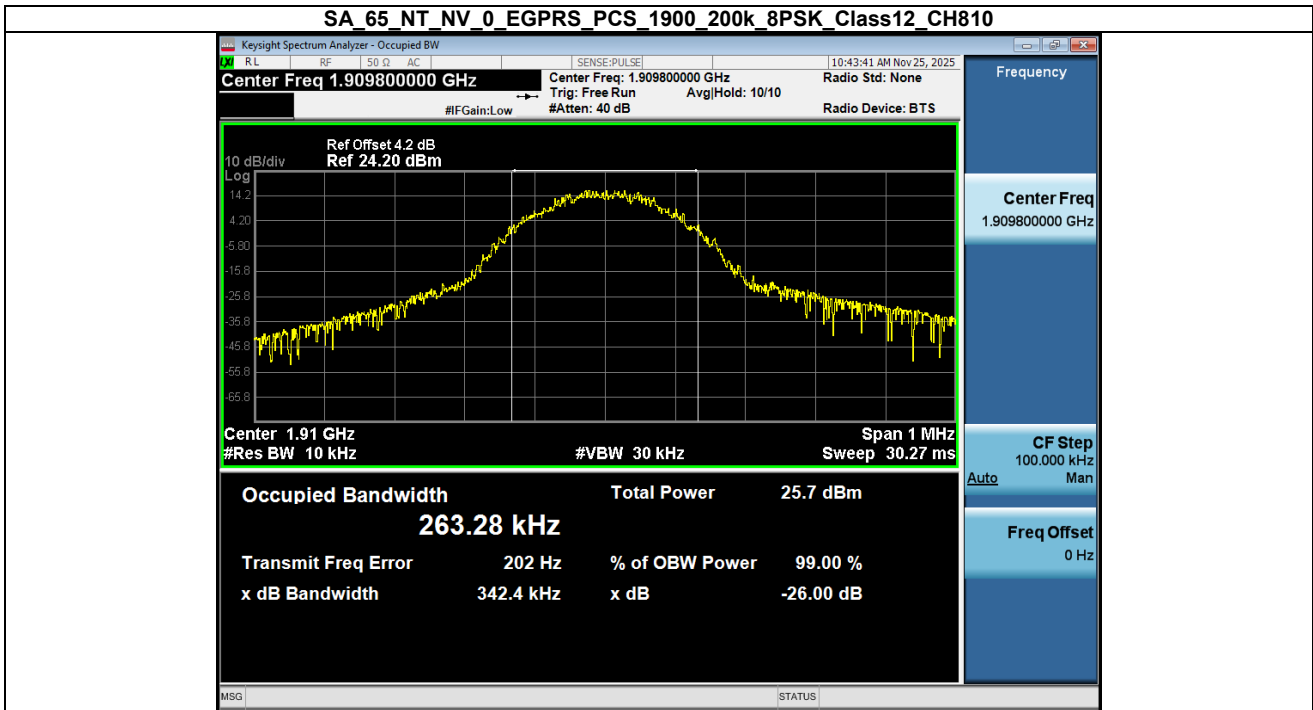
| Condition | Services | Band     | Modulation | Class Type | Frequency(MHz) | OBW(MHz) | -26EBW(MHz) |
|-----------|----------|----------|------------|------------|----------------|----------|-------------|
| NVNT      | EGPRS    | PCS 1900 | GMSK       | Class12    | 1850.2         | 0.2442   | 0.3128      |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2         | 0.2706   | 0.3545      |
| NVNT      | EGPRS    | PCS 1900 | GMSK       | Class12    | 1880.0         | 0.2428   | 0.3219      |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0         | 0.2710   | 0.3428      |
| NVNT      | EGPRS    | PCS 1900 | GMSK       | Class12    | 1909.8         | 0.2437   | 0.3128      |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8         | 0.2633   | 0.3424      |



**SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_GMSK\_Class12\_CH661**

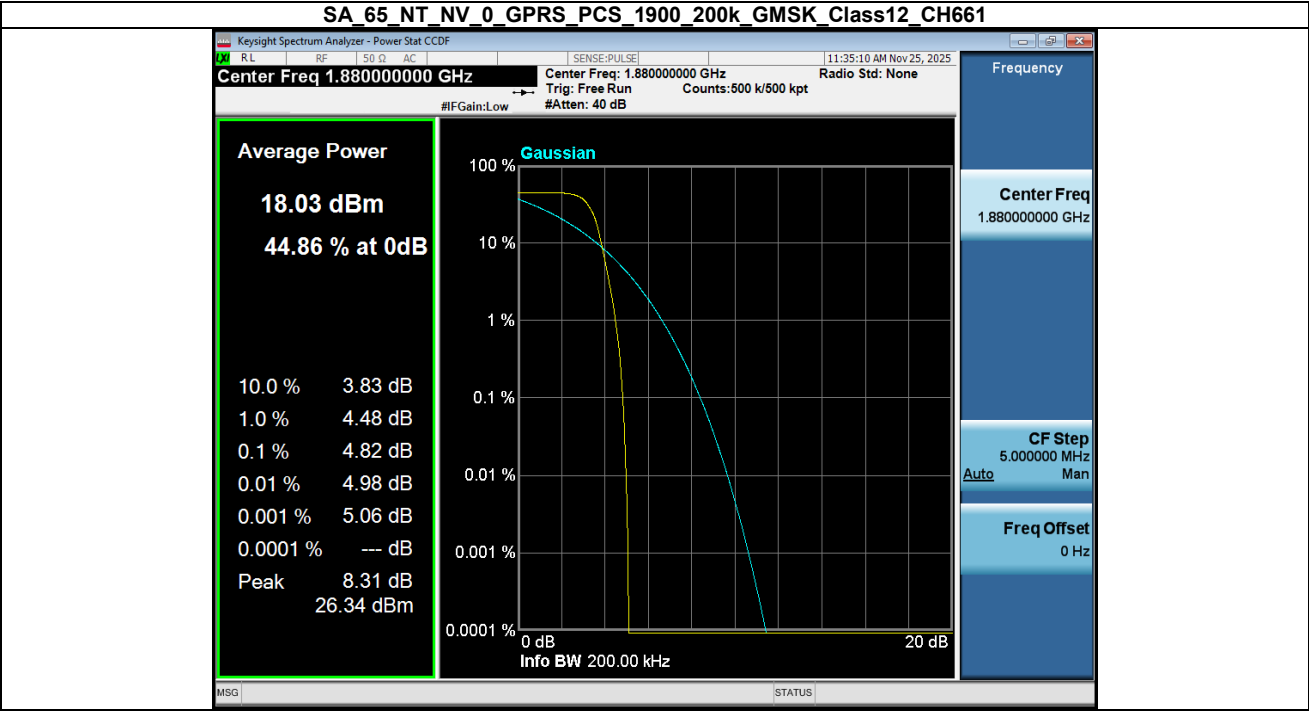
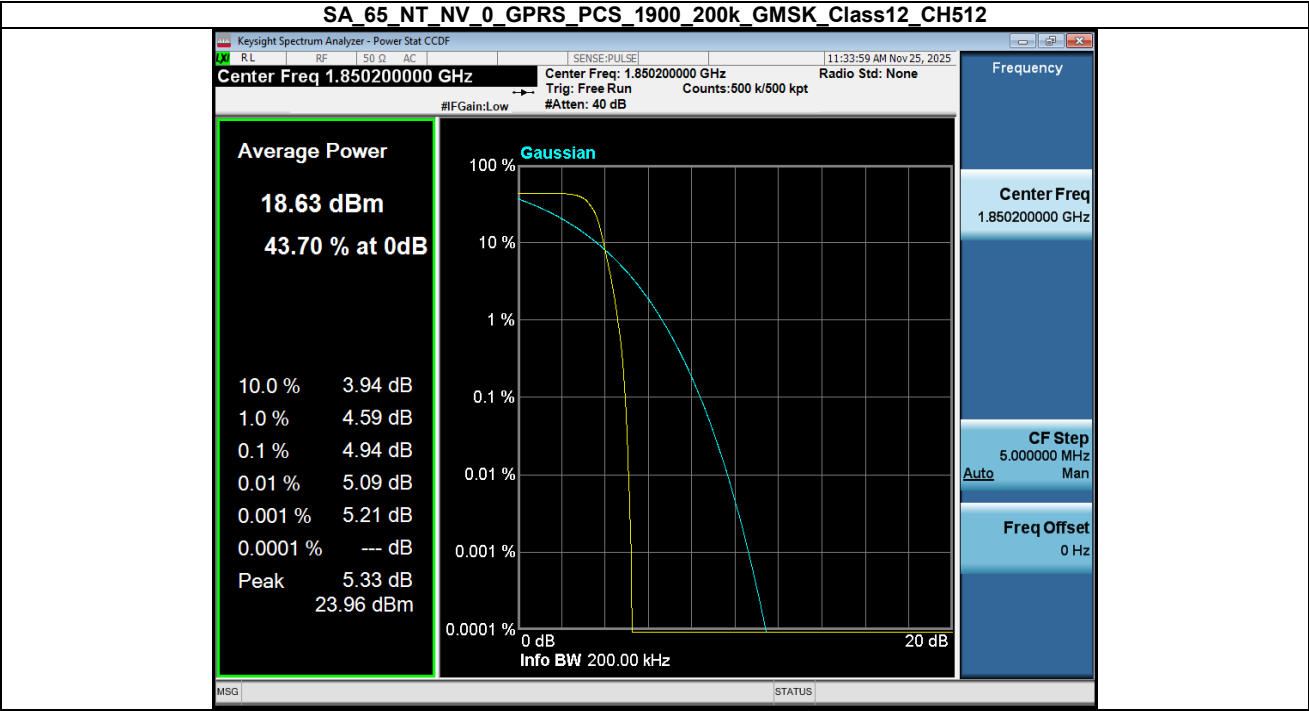


SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_GMSK\_Class12\_CH810

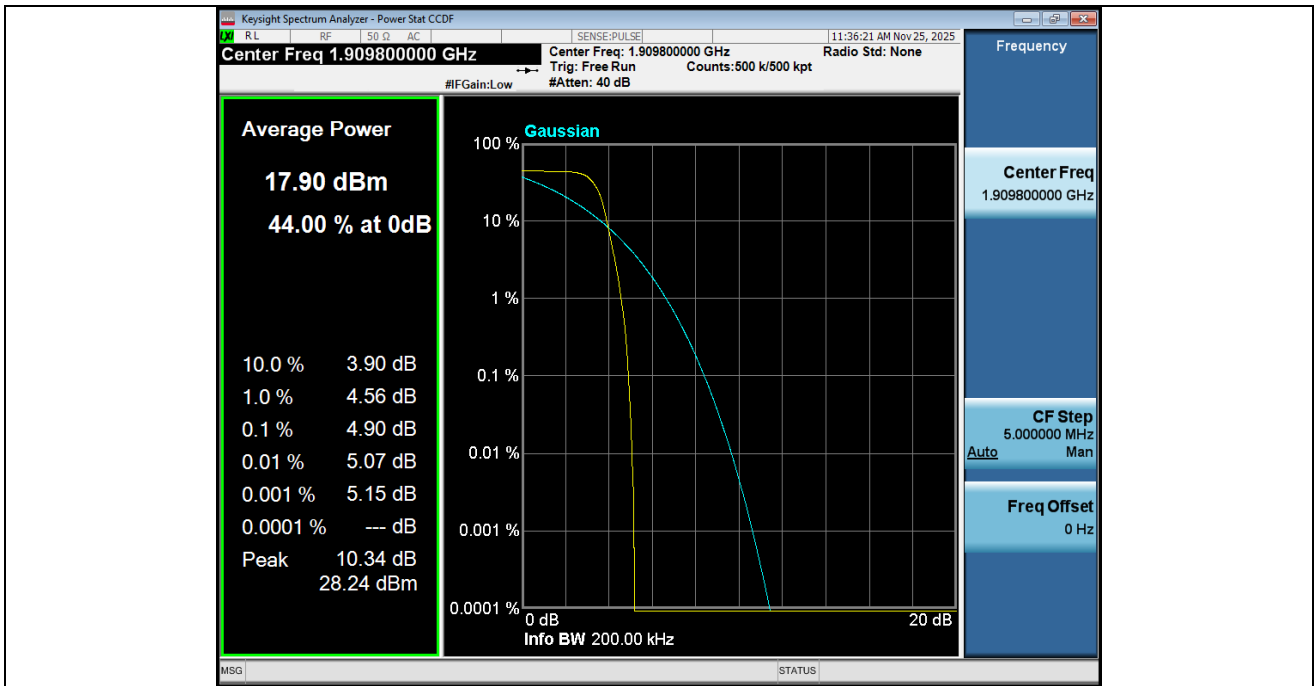


3. Peak to Average Ratio

| Condition | Services | Band     | Modulation | Class Type | Frequency(MHz) | Peak to AVG Ratio-0.1%(dB) | Limit(dB) | Result |
|-----------|----------|----------|------------|------------|----------------|----------------------------|-----------|--------|
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2         | 4.94                       | 13.00     | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0         | 4.82                       | 13.00     | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8         | 4.90                       | 13.00     | Pass   |

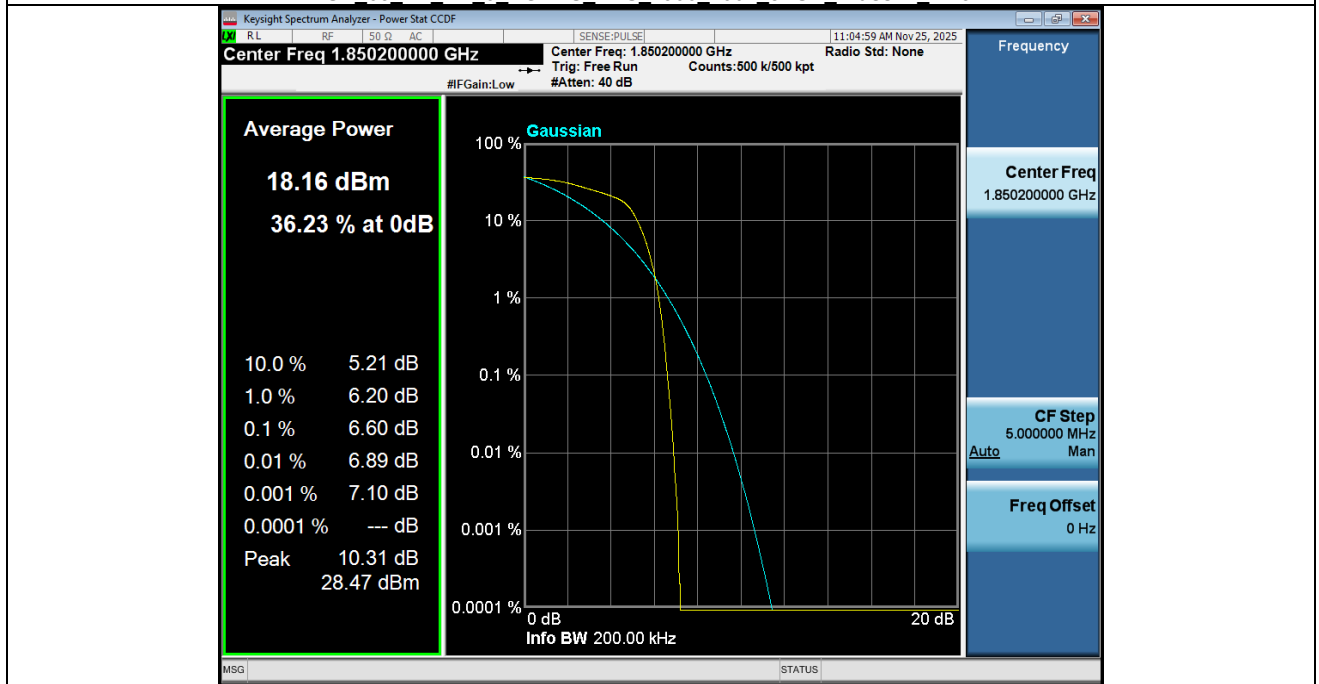


SA\_65\_NT\_NV\_0\_GPRS\_PCS\_1900\_200k\_GMSK\_Class12\_CH810

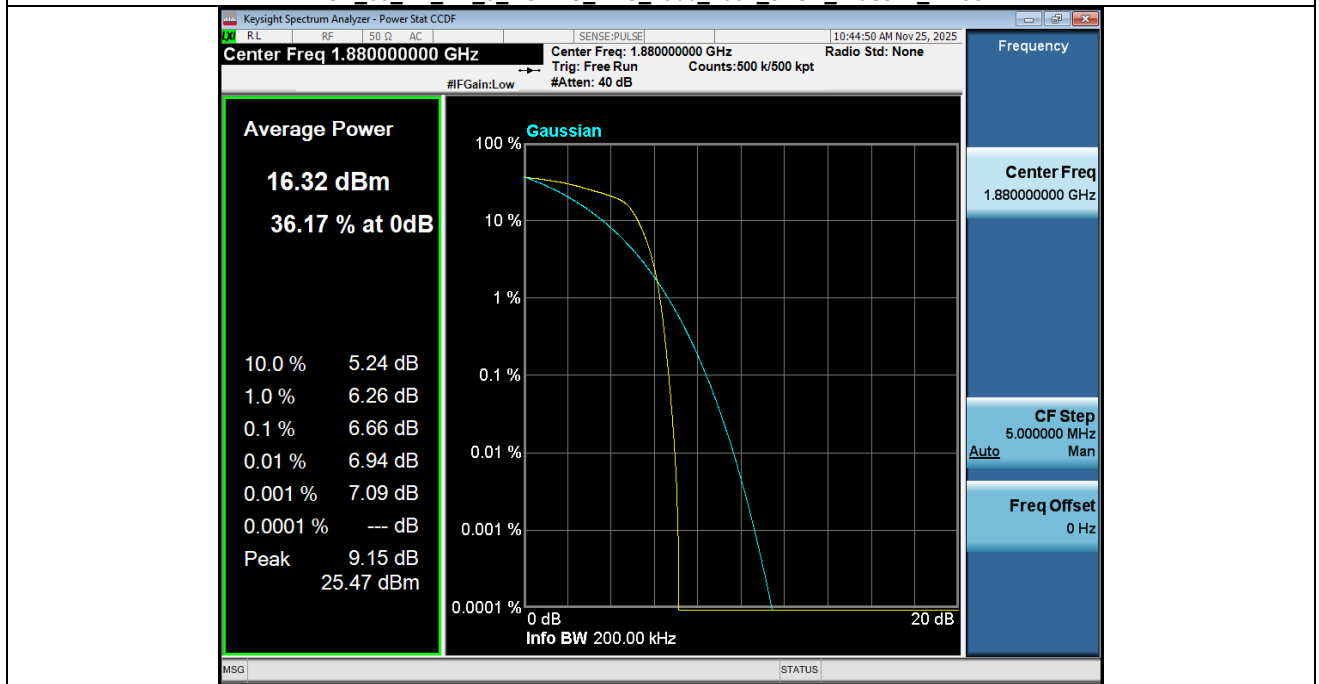


| Condition | Services | Band     | Modulation | Class Type | Frequency(MHz) | Peak to AVG Ratio-0.1%(dB) | Limit(dB) | Result |
|-----------|----------|----------|------------|------------|----------------|----------------------------|-----------|--------|
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2         | 6.60                       | 13.00     | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0         | 6.66                       | 13.00     | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8         | 6.80                       | 13.00     | Pass   |

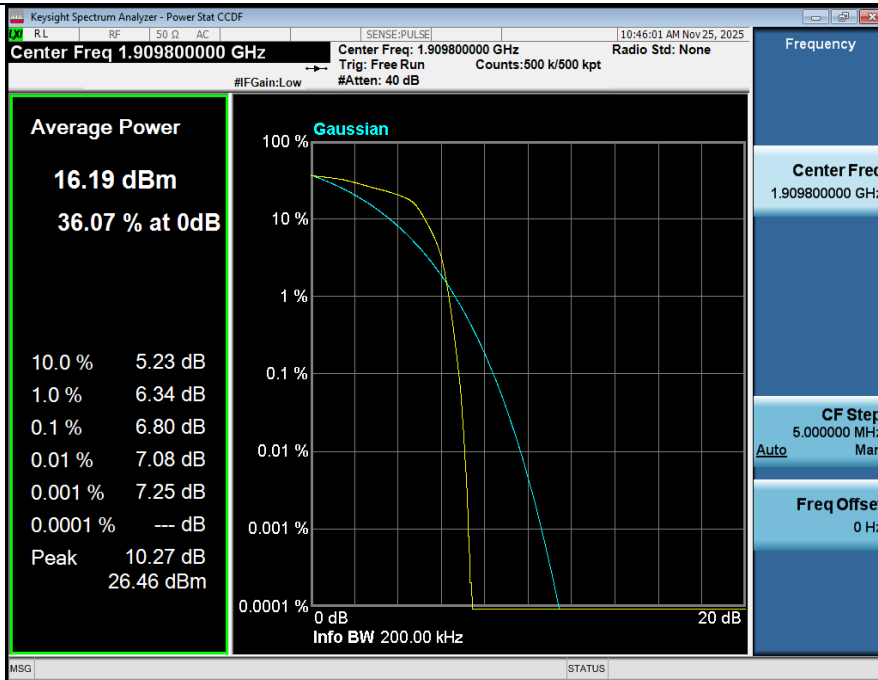
SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH512



SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH661

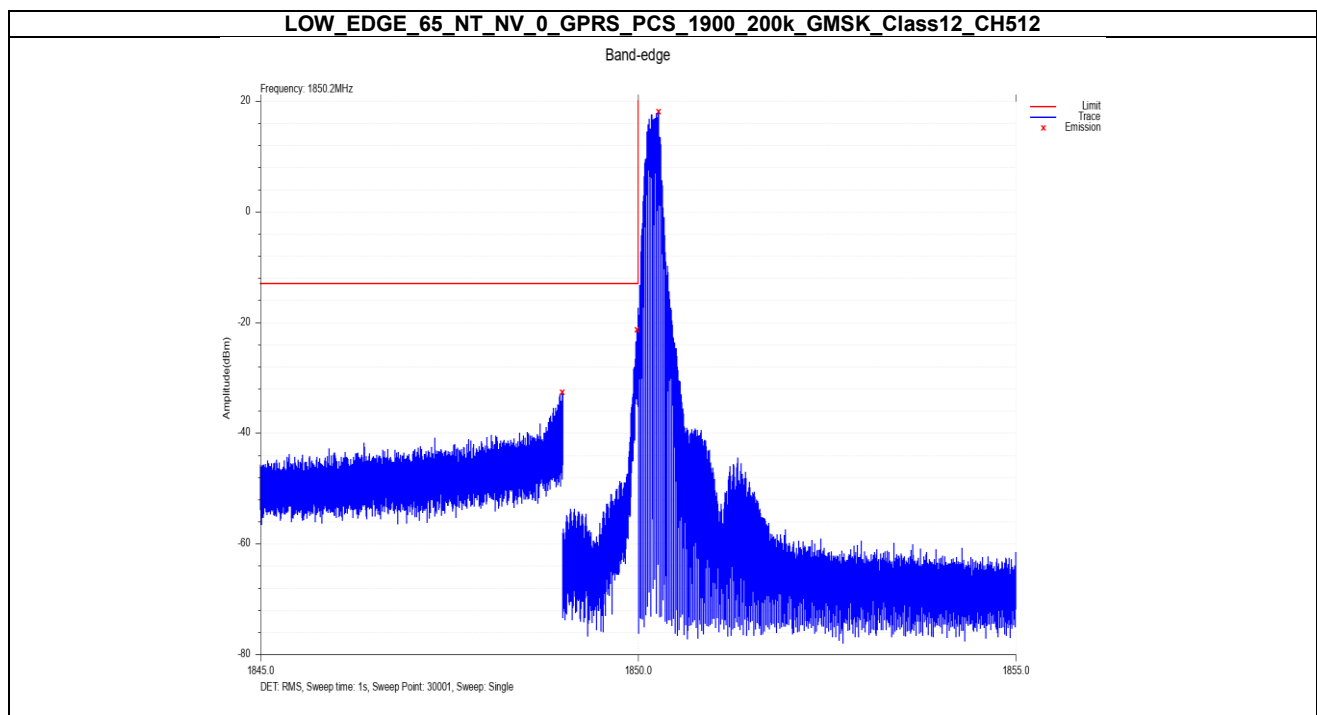


SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH810

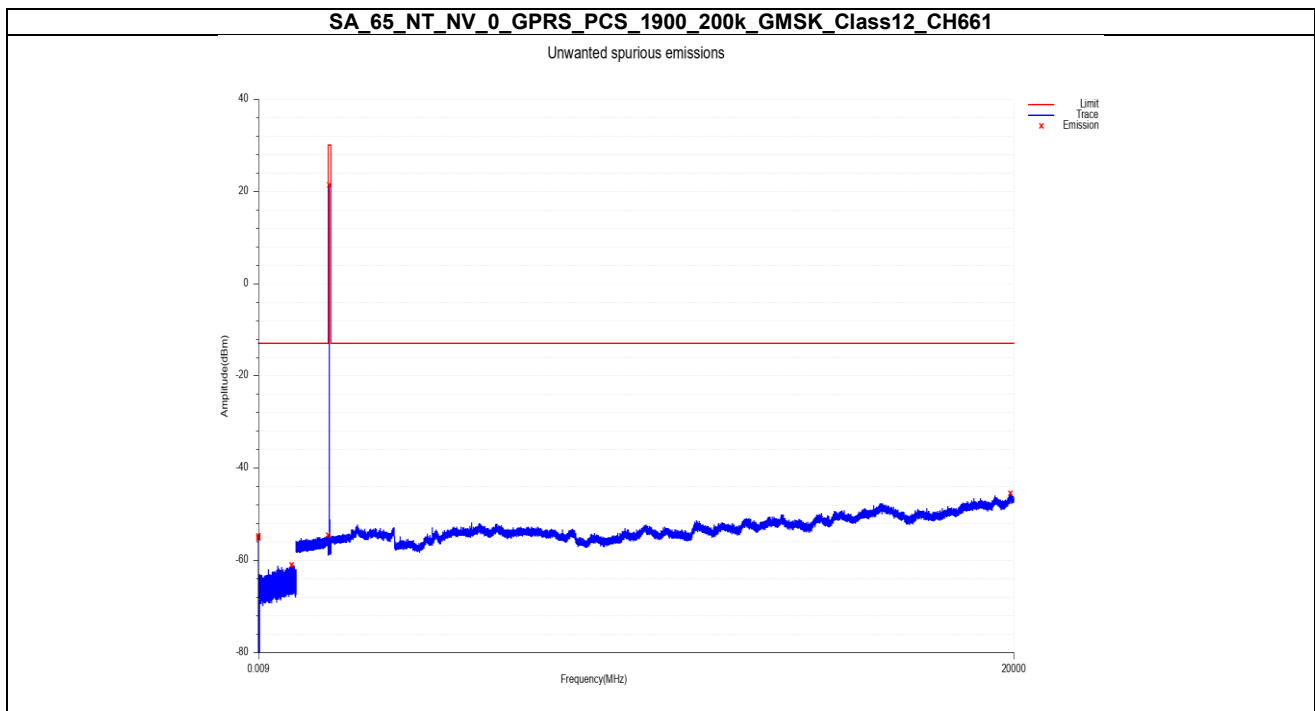
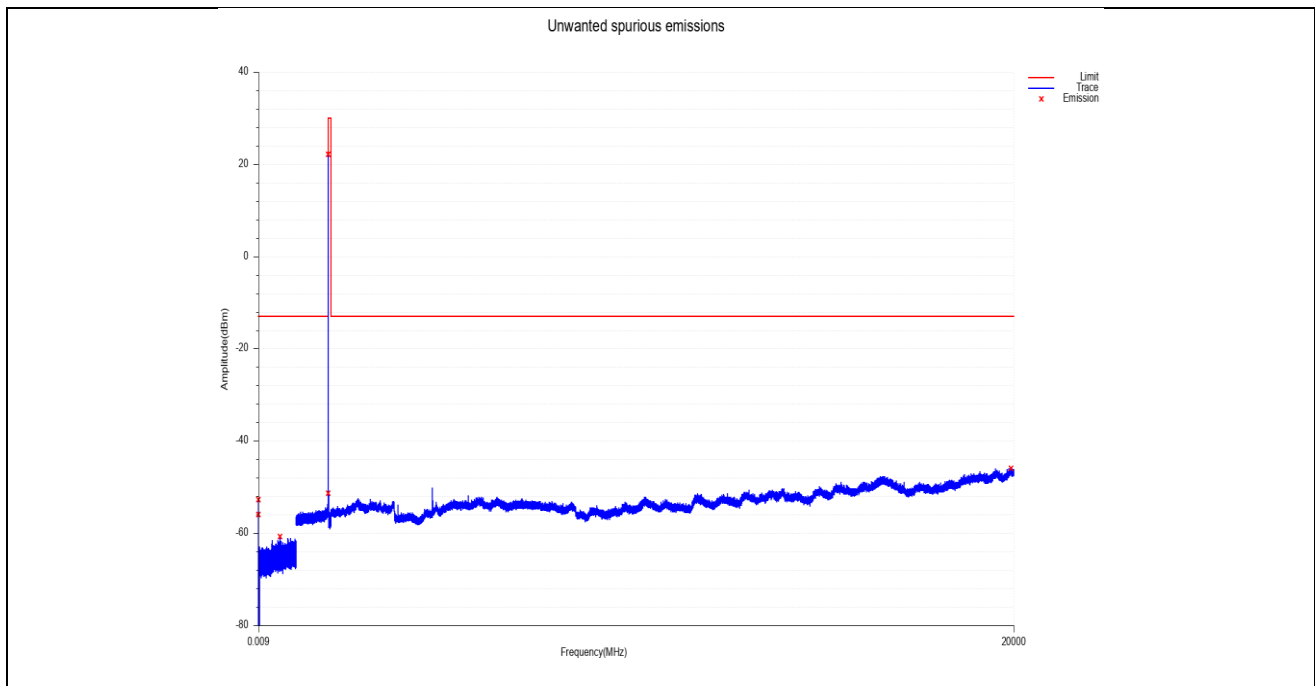


## 4. Unwanted Spurious Emission

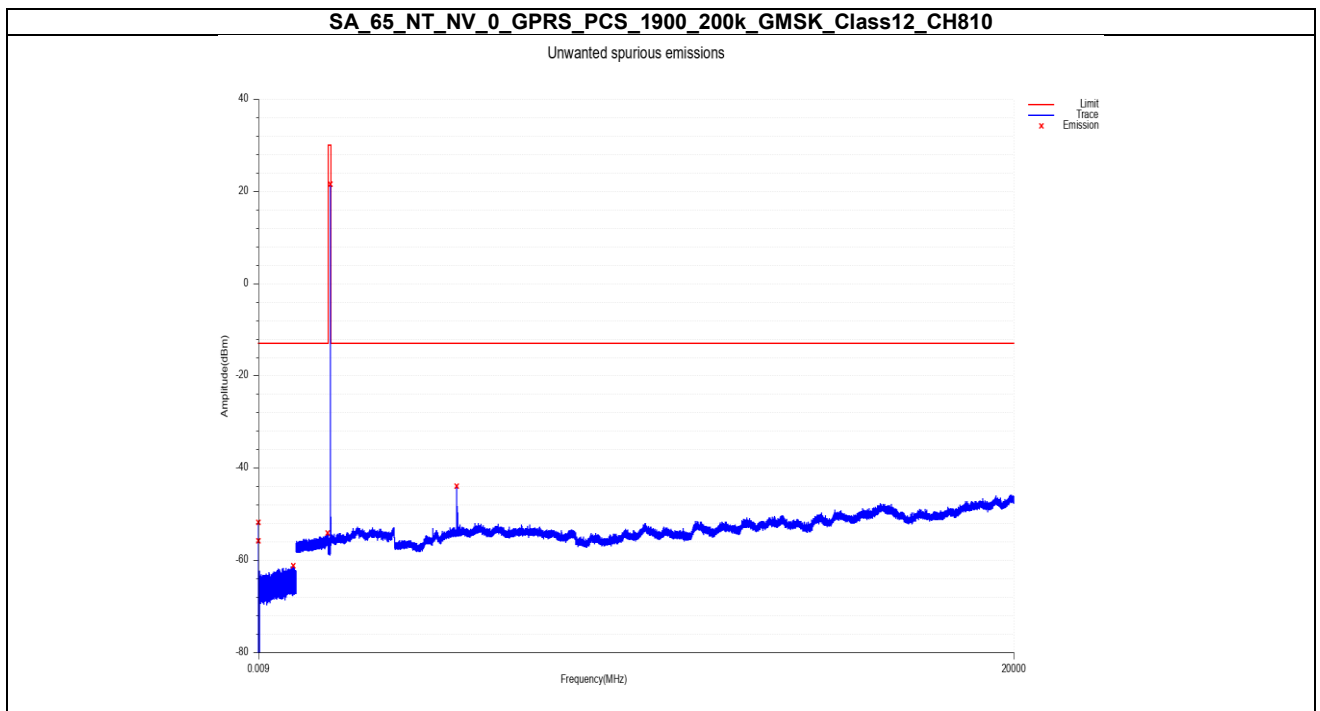
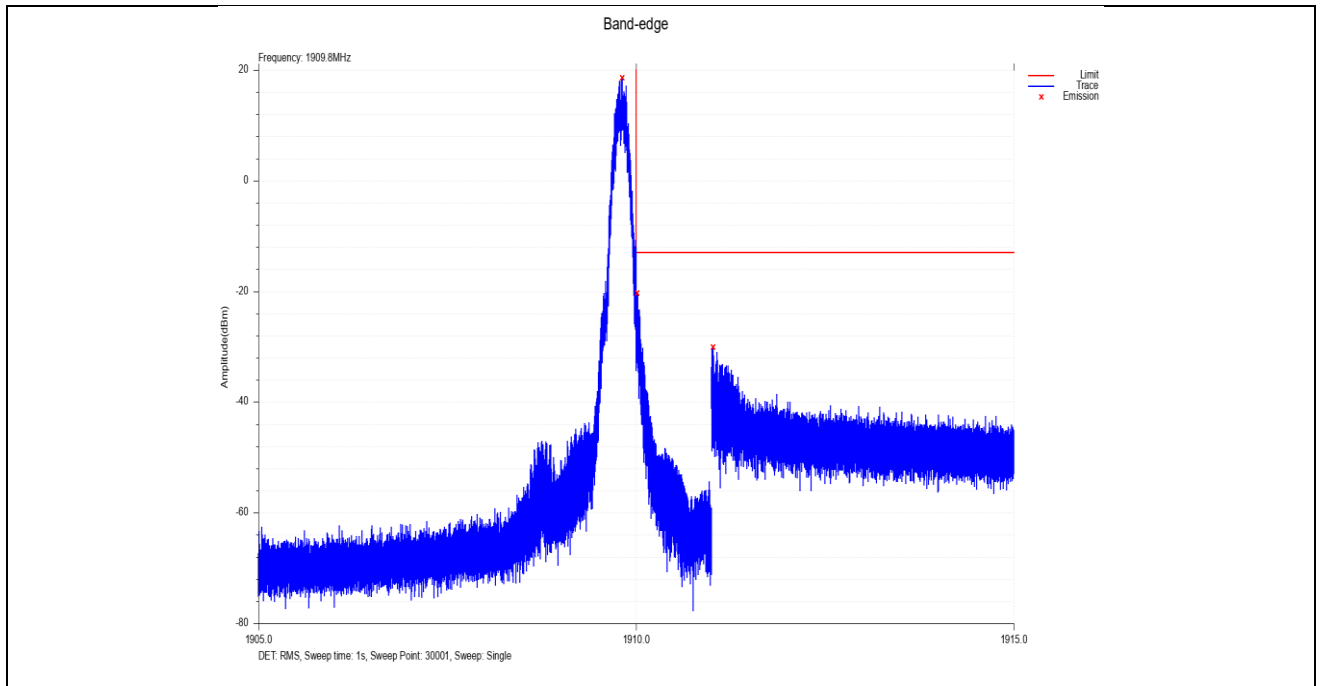
| Condition | Services | Band     | Modulation | Class Type | Frequency (MHz) | RBW (kHz) | Test Freq Range(MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Result |
|-----------|----------|----------|------------|------------|-----------------|-----------|----------------------|-----------------|------------------|-------------|--------|
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.20         | 1000      | 1845.0~1849.0        | 1848.999        | -32.62           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.20         | 3         | 1849.0~1850.0        | 1849.988        | -21.29           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.20         | 1         | 0.009~0.150          | 0.010           | -52.71           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.20         | 10        | 0.150~30.000         | 0.150           | -56.00           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.20         | 100       | 30.000~1000.000      | 578.503         | -60.71           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.20         | 1000      | 1000.000~1845.000    | 1844.437        | -51.34           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.20         | 1000      | 1915.000~20000.000   | 19927.660       | -45.91           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.00         | 1         | 0.009~0.150          | 0.012           | -54.71           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.00         | 10        | 0.150~30.000         | 0.150           | -55.27           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.00         | 100       | 30.000~1000.000      | 874.288         | -61.08           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.00         | 1000      | 1000.000~1845.000    | 1842.775        | -54.62           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.00         | 1000      | 1915.000~20000.000   | 19908.972       | -45.46           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.80         | 3         | 1910.0~1911.0        | 1910.018        | -20.30           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.80         | 1000      | 1911.0~1915.0        | 1911.017        | -30.03           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.80         | 1         | 0.009~0.150          | 0.009           | -51.87           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.80         | 10        | 0.150~30.000         | 0.159           | -55.78           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.80         | 100       | 30.000~1000.000      | 927.961         | -61.27           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.80         | 1000      | 1000.000~1845.000    | 1839.705        | -54.18           | -13         | Pass   |
| NVNT      | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.80         | 1000      | 1915.000~20000.000   | 5252.285        | -43.94           | -13         | Pass   |



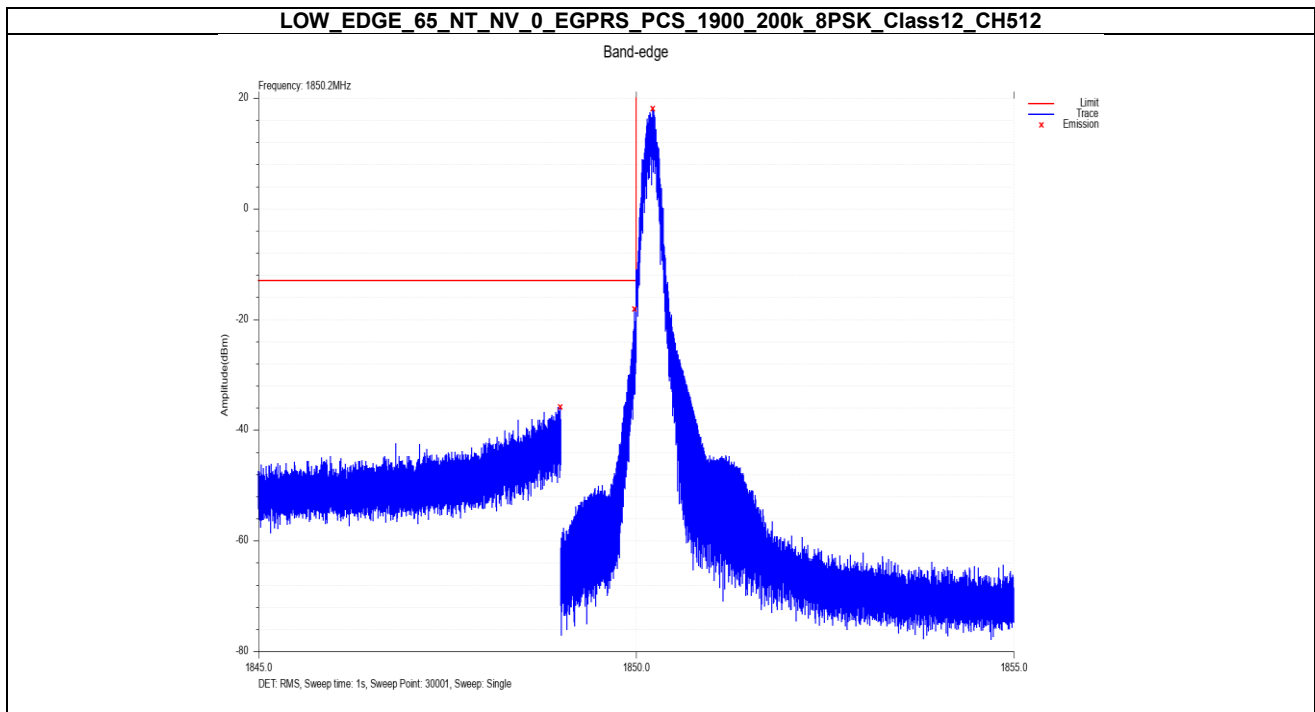
**SA\_65\_NT\_NV\_0\_GPRS\_PCS\_1900\_200k\_GMSK\_Class12\_CH512**



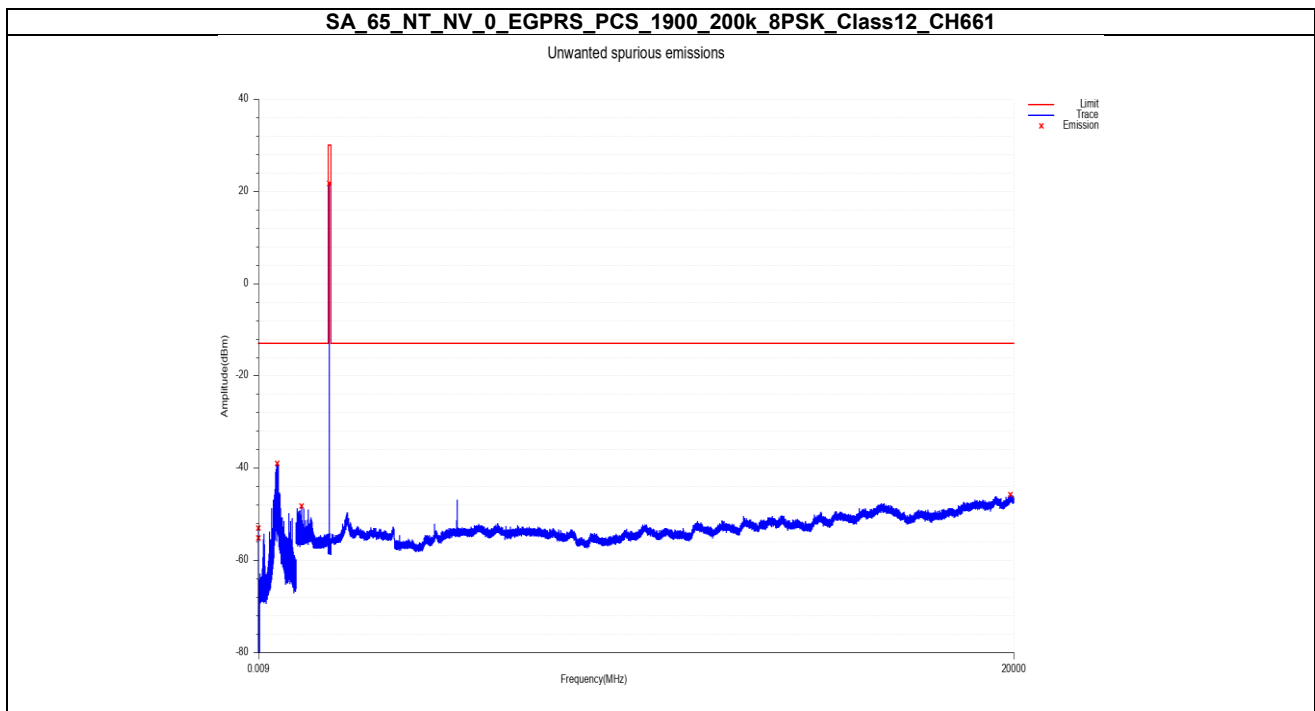
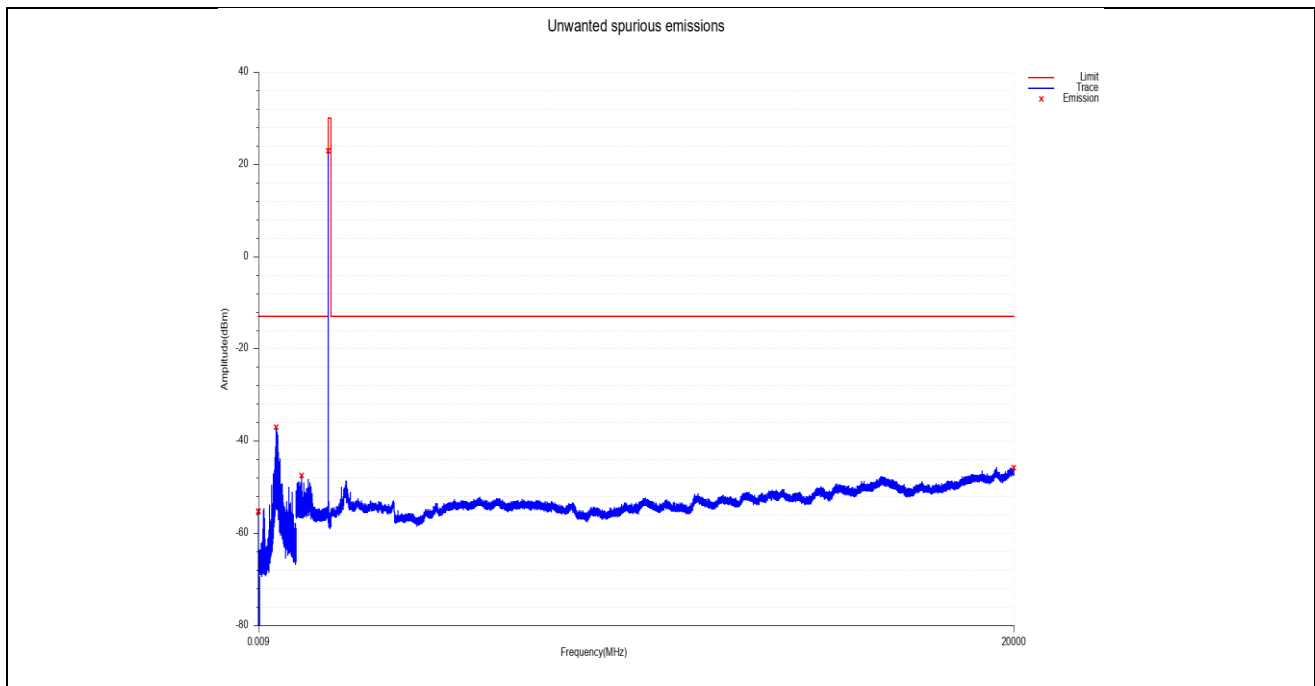
**UPPER\_EDGE\_65\_NT\_NV\_0\_GPRS\_PCS\_1900\_200k\_GMSK\_Class12\_CH810**



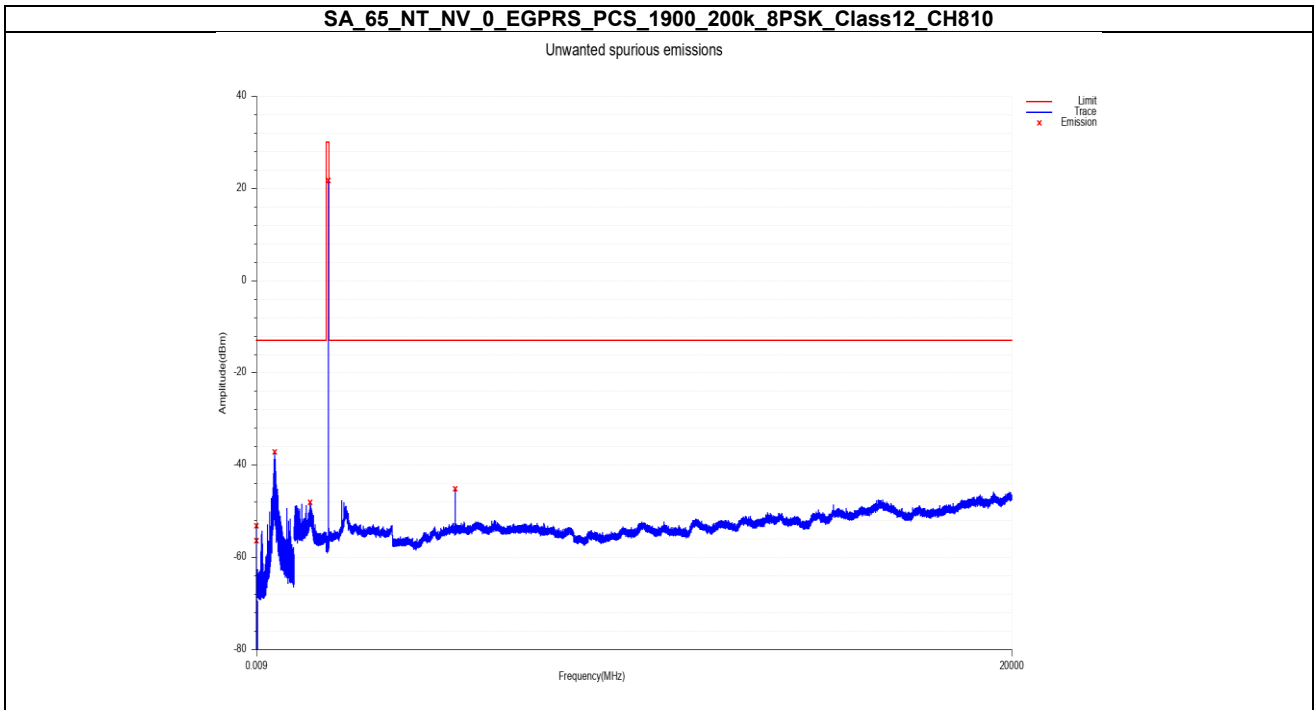
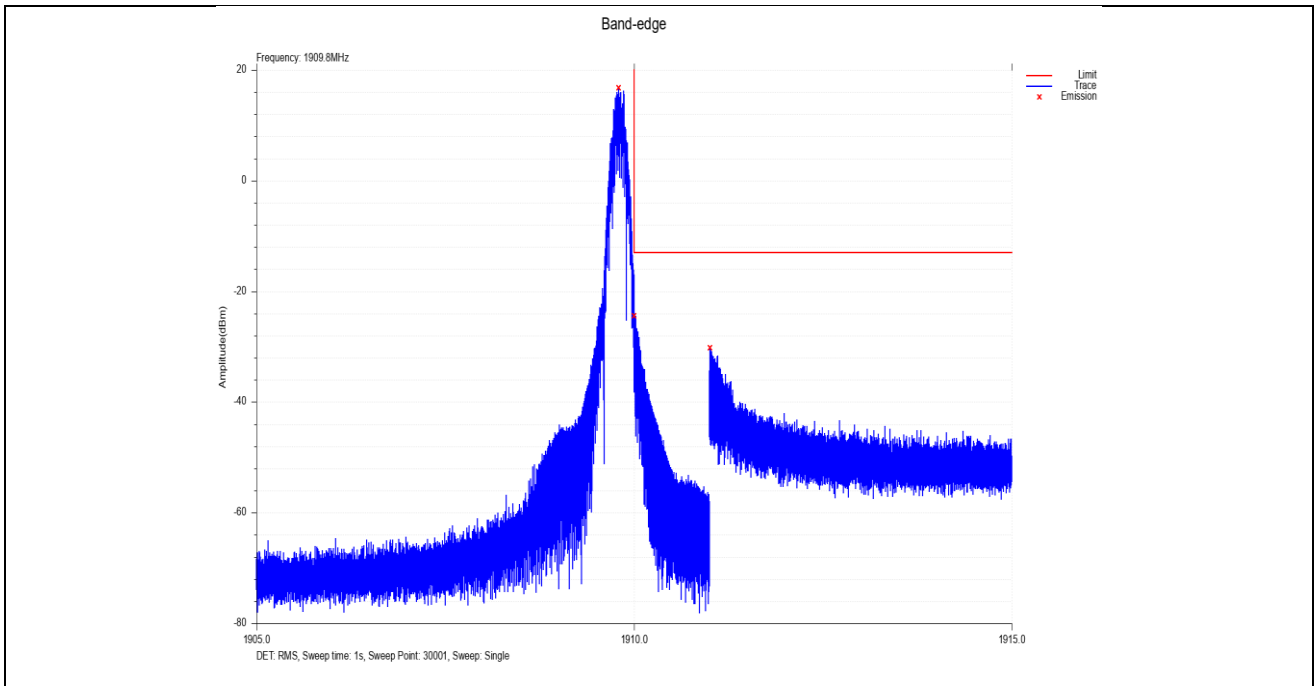
| Condition | Services | Band     | Modulation | Class Type | Frequency (MHz) | RBW (kHz) | Test Freq Range(MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Result |
|-----------|----------|----------|------------|------------|-----------------|-----------|----------------------|-----------------|------------------|-------------|--------|
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.20         | 1000      | 1845.0~1849.0        | 1848.995        | -35.89           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.20         | 3         | 1849.0~1850.0        | 1849.978        | -18.16           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.20         | 1         | 0.009~0.150          | 0.012           | -55.41           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.20         | 10        | 0.150~30.000         | 0.151           | -55.27           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.20         | 100       | 30.000~1000.000      | 475.036         | -37.10           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.20         | 1000      | 1000.000~1845.000    | 1150.297        | -47.43           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.20         | 1000      | 1915.000~20000.000   | 19993.369       | -45.74           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.00         | 1         | 0.009~0.150          | 0.011           | -52.99           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.00         | 10        | 0.150~30.000         | 0.159           | -55.24           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.00         | 100       | 30.000~1000.000      | 494.759         | -38.95           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.00         | 1000      | 1000.000~1845.000    | 1150.128        | -48.20           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.00         | 1000      | 1915.000~20000.000   | 19910.781       | -45.73           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.80         | 3         | 1910.0~1911.0        | 1910.001        | -24.45           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.80         | 1000      | 1911.0~1915.0        | 1911.002        | -30.23           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.80         | 1         | 0.009~0.150          | 0.009           | -53.16           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.80         | 10        | 0.150~30.000         | 0.168           | -56.49           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.80         | 100       | 30.000~1000.000      | 478.237         | -37.21           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.80         | 1000      | 1000.000~1845.000    | 1423.063        | -48.12           | -13         | Pass   |
| NVNT      | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.80         | 1000      | 1915.000~20000.000   | 5262.533        | -45.13           | -13         | Pass   |



**SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH512**



**UPPER\_EDGE\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH810**



## 5. Frequency Stability

| Temperature (C) | Voltage (V) | Services | Band     | Modulation | Class Type | Frequency (MHz) | Frequency Stabilization (ppm) | Limit_Low (ppm) | Limit_Up (ppm) | Result |
|-----------------|-------------|----------|----------|------------|------------|-----------------|-------------------------------|-----------------|----------------|--------|
| -30             | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | -0.03743                      | -2.50           | 2.50           | Pass   |
| -30             | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | -0.04221                      | -2.50           | 2.50           | Pass   |
| -30             | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.00277                       | -2.50           | 2.50           | Pass   |
| -30             | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | -0.01387                      | -2.50           | 2.50           | Pass   |
| -30             | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.00530                       | -2.50           | 2.50           | Pass   |
| -30             | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.01653                      | -2.50           | 2.50           | Pass   |
| -30             | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | -0.01982                      | -2.50           | 2.50           | Pass   |
| -30             | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.00435                       | -2.50           | 2.50           | Pass   |
| -30             | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.04324                      | -2.50           | 2.50           | Pass   |
| -20             | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.01502                       | -2.50           | 2.50           | Pass   |
| -20             | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.04513                       | -2.50           | 2.50           | Pass   |
| -20             | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.04732                       | -2.50           | 2.50           | Pass   |
| -20             | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.04376                       | -2.50           | 2.50           | Pass   |
| -20             | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.03817                       | -2.50           | 2.50           | Pass   |
| -20             | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.02392                       | -2.50           | 2.50           | Pass   |
| -20             | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.00994                       | -2.50           | 2.50           | Pass   |
| -20             | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | -0.00874                      | -2.50           | 2.50           | Pass   |
| -20             | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.04549                      | -2.50           | 2.50           | Pass   |
| -10             | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.03894                       | -2.50           | 2.50           | Pass   |
| -10             | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | -0.02895                      | -2.50           | 2.50           | Pass   |
| -10             | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.04676                      | -2.50           | 2.50           | Pass   |
| -10             | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.00990                       | -2.50           | 2.50           | Pass   |
| -10             | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.04027                       | -2.50           | 2.50           | Pass   |
| -10             | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.01851                       | -2.50           | 2.50           | Pass   |
| -10             | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | -0.03108                      | -2.50           | 2.50           | Pass   |
| -10             | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.02785                       | -2.50           | 2.50           | Pass   |
| -10             | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.03478                      | -2.50           | 2.50           | Pass   |
| 0               | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.00336                       | -2.50           | 2.50           | Pass   |
| 0               | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.03806                       | -2.50           | 2.50           | Pass   |
| 0               | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.02670                      | -2.50           | 2.50           | Pass   |
| 0               | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.02264                       | -2.50           | 2.50           | Pass   |
| 0               | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | -0.02790                      | -2.50           | 2.50           | Pass   |
| 0               | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.01706                      | -2.50           | 2.50           | Pass   |
| 0               | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | -0.04767                      | -2.50           | 2.50           | Pass   |
| 0               | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | -0.03188                      | -2.50           | 2.50           | Pass   |
| 0               | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.00961                      | -2.50           | 2.50           | Pass   |
| 10              | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | -0.02010                      | -2.50           | 2.50           | Pass   |
| 10              | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.00341                       | -2.50           | 2.50           | Pass   |
| 10              | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.00350                       | -2.50           | 2.50           | Pass   |
| 10              | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.02382                       | -2.50           | 2.50           | Pass   |
| 10              | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.01968                       | -2.50           | 2.50           | Pass   |
| 10              | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.03549                       | -2.50           | 2.50           | Pass   |
| 10              | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | -0.04885                      | -2.50           | 2.50           | Pass   |
| 10              | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | -0.02907                      | -2.50           | 2.50           | Pass   |
| 10              | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.00211                       | -2.50           | 2.50           | Pass   |
| 20              | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.03832                       | -2.50           | 2.50           | Pass   |
| 20              | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.02916                       | -2.50           | 2.50           | Pass   |
| 20              | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.00596                      | -2.50           | 2.50           | Pass   |
| 20              | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.03772                       | -2.50           | 2.50           | Pass   |
| 20              | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.04019                       | -2.50           | 2.50           | Pass   |
| 20              | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | -0.02225                      | -2.50           | 2.50           | Pass   |
| 20              | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | -0.03933                      | -2.50           | 2.50           | Pass   |
| 20              | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.02355                       | -2.50           | 2.50           | Pass   |
| 20              | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.01150                       | -2.50           | 2.50           | Pass   |
| 30              | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.02852                       | -2.50           | 2.50           | Pass   |
| 30              | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | -0.04370                      | -2.50           | 2.50           | Pass   |
| 30              | 3.3         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.01409                       | -2.50           | 2.50           | Pass   |
| 30              | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | -0.03479                      | -2.50           | 2.50           | Pass   |
| 30              | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | 0.00612                       | -2.50           | 2.50           | Pass   |
| 30              | 3.8         | GPRS     | PCS 1900 | GMSK       | Class12    | 1909.8          | 0.00136                       | -2.50           | 2.50           | Pass   |
| 30              | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1850.2          | 0.00626                       | -2.50           | 2.50           | Pass   |
| 30              | 4.2         | GPRS     | PCS 1900 | GMSK       | Class12    | 1880.0          | -0.03898                      | -2.50           | 2.50           | Pass   |

|    |     |      |          |      |         |        |          |       |      |      |
|----|-----|------|----------|------|---------|--------|----------|-------|------|------|
| 30 | 4.2 | GPRS | PCS 1900 | GMSK | Class12 | 1909.8 | 0.04349  | -2.50 | 2.50 | Pass |
| 40 | 3.3 | GPRS | PCS 1900 | GMSK | Class12 | 1850.2 | -0.00960 | -2.50 | 2.50 | Pass |
| 40 | 3.3 | GPRS | PCS 1900 | GMSK | Class12 | 1880.0 | 0.04298  | -2.50 | 2.50 | Pass |
| 40 | 3.3 | GPRS | PCS 1900 | GMSK | Class12 | 1909.8 | 0.03115  | -2.50 | 2.50 | Pass |
| 40 | 3.8 | GPRS | PCS 1900 | GMSK | Class12 | 1850.2 | 0.00168  | -2.50 | 2.50 | Pass |
| 40 | 3.8 | GPRS | PCS 1900 | GMSK | Class12 | 1880.0 | 0.03778  | -2.50 | 2.50 | Pass |
| 40 | 3.8 | GPRS | PCS 1900 | GMSK | Class12 | 1909.8 | 0.04888  | -2.50 | 2.50 | Pass |
| 40 | 4.2 | GPRS | PCS 1900 | GMSK | Class12 | 1850.2 | 0.00183  | -2.50 | 2.50 | Pass |
| 40 | 4.2 | GPRS | PCS 1900 | GMSK | Class12 | 1880.0 | 0.00935  | -2.50 | 2.50 | Pass |
| 40 | 4.2 | GPRS | PCS 1900 | GMSK | Class12 | 1909.8 | 0.03504  | -2.50 | 2.50 | Pass |
| 50 | 3.3 | GPRS | PCS 1900 | GMSK | Class12 | 1850.2 | -0.03604 | -2.50 | 2.50 | Pass |
| 50 | 3.3 | GPRS | PCS 1900 | GMSK | Class12 | 1880.0 | 0.02208  | -2.50 | 2.50 | Pass |
| 50 | 3.3 | GPRS | PCS 1900 | GMSK | Class12 | 1909.8 | -0.01610 | -2.50 | 2.50 | Pass |
| 50 | 3.8 | GPRS | PCS 1900 | GMSK | Class12 | 1850.2 | 0.02814  | -2.50 | 2.50 | Pass |
| 50 | 3.8 | GPRS | PCS 1900 | GMSK | Class12 | 1880.0 | 0.00050  | -2.50 | 2.50 | Pass |
| 50 | 3.8 | GPRS | PCS 1900 | GMSK | Class12 | 1909.8 | -0.00974 | -2.50 | 2.50 | Pass |
| 50 | 4.2 | GPRS | PCS 1900 | GMSK | Class12 | 1850.2 | -0.00842 | -2.50 | 2.50 | Pass |
| 50 | 4.2 | GPRS | PCS 1900 | GMSK | Class12 | 1880.0 | -0.01688 | -2.50 | 2.50 | Pass |
| 50 | 4.2 | GPRS | PCS 1900 | GMSK | Class12 | 1909.8 | 0.01818  | -2.50 | 2.50 | Pass |

| Temperature (C) | Voltage (V) | Services | Band     | Modulation | Class Type | Frequency (MHz) | Frequency Stabilization (ppm) | Limit_Low (ppm) | Limit_Up (ppm) | Result |
|-----------------|-------------|----------|----------|------------|------------|-----------------|-------------------------------|-----------------|----------------|--------|
| -30             | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.03575                      | -2.50           | 2.50           | Pass   |
| -30             | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.02644                      | -2.50           | 2.50           | Pass   |
| -30             | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.01932                       | -2.50           | 2.50           | Pass   |
| -30             | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.04929                      | -2.50           | 2.50           | Pass   |
| -30             | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.00495                       | -2.50           | 2.50           | Pass   |
| -30             | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.04254                       | -2.50           | 2.50           | Pass   |
| -30             | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | 0.04526                       | -2.50           | 2.50           | Pass   |
| -30             | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.01345                      | -2.50           | 2.50           | Pass   |
| -30             | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.04751                      | -2.50           | 2.50           | Pass   |
| -20             | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.04451                      | -2.50           | 2.50           | Pass   |
| -20             | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.01336                       | -2.50           | 2.50           | Pass   |
| -20             | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.03369                       | -2.50           | 2.50           | Pass   |
| -20             | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.04160                      | -2.50           | 2.50           | Pass   |
| -20             | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.02988                      | -2.50           | 2.50           | Pass   |
| -20             | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.01133                      | -2.50           | 2.50           | Pass   |
| -20             | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.00831                      | -2.50           | 2.50           | Pass   |
| -20             | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.01246                       | -2.50           | 2.50           | Pass   |
| -20             | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.03450                      | -2.50           | 2.50           | Pass   |
| -10             | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.00118                      | -2.50           | 2.50           | Pass   |
| -10             | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.01722                       | -2.50           | 2.50           | Pass   |
| -10             | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.02961                       | -2.50           | 2.50           | Pass   |
| -10             | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.02304                      | -2.50           | 2.50           | Pass   |
| -10             | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.03088                      | -2.50           | 2.50           | Pass   |
| -10             | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.04541                       | -2.50           | 2.50           | Pass   |
| -10             | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.03481                      | -2.50           | 2.50           | Pass   |
| -10             | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.04299                       | -2.50           | 2.50           | Pass   |
| -10             | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.00605                       | -2.50           | 2.50           | Pass   |
| 0               | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | 0.01152                       | -2.50           | 2.50           | Pass   |
| 0               | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.03476                       | -2.50           | 2.50           | Pass   |
| 0               | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.01283                      | -2.50           | 2.50           | Pass   |
| 0               | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.02076                      | -2.50           | 2.50           | Pass   |
| 0               | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.04295                      | -2.50           | 2.50           | Pass   |
| 0               | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.00733                       | -2.50           | 2.50           | Pass   |
| 0               | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | 0.03094                       | -2.50           | 2.50           | Pass   |
| 0               | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.02251                       | -2.50           | 2.50           | Pass   |
| 0               | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.02036                      | -2.50           | 2.50           | Pass   |
| 10              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | 0.03837                       | -2.50           | 2.50           | Pass   |
| 10              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.02679                       | -2.50           | 2.50           | Pass   |
| 10              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.02915                       | -2.50           | 2.50           | Pass   |
| 10              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | 0.01315                       | -2.50           | 2.50           | Pass   |
| 10              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.02807                       | -2.50           | 2.50           | Pass   |
| 10              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.00391                       | -2.50           | 2.50           | Pass   |
| 10              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | 0.02343                       | -2.50           | 2.50           | Pass   |
| 10              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.01806                       | -2.50           | 2.50           | Pass   |
| 10              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.01316                      | -2.50           | 2.50           | Pass   |
| 20              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | 0.03661                       | -2.50           | 2.50           | Pass   |
| 20              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.02964                      | -2.50           | 2.50           | Pass   |
| 20              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.04970                      | -2.50           | 2.50           | Pass   |
| 20              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.03478                      | -2.50           | 2.50           | Pass   |
| 20              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.00144                       | -2.50           | 2.50           | Pass   |
| 20              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.01847                       | -2.50           | 2.50           | Pass   |
| 20              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.01946                      | -2.50           | 2.50           | Pass   |
| 20              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.00686                       | -2.50           | 2.50           | Pass   |
| 20              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.02339                      | -2.50           | 2.50           | Pass   |
| 30              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.03914                      | -2.50           | 2.50           | Pass   |
| 30              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | 0.02814                       | -2.50           | 2.50           | Pass   |
| 30              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.00953                      | -2.50           | 2.50           | Pass   |
| 30              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.02112                      | -2.50           | 2.50           | Pass   |
| 30              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.02042                      | -2.50           | 2.50           | Pass   |
| 30              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.04394                      | -2.50           | 2.50           | Pass   |
| 30              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.02920                      | -2.50           | 2.50           | Pass   |
| 30              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.03899                      | -2.50           | 2.50           | Pass   |
| 30              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | -0.04890                      | -2.50           | 2.50           | Pass   |
| 40              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.00307                      | -2.50           | 2.50           | Pass   |
| 40              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.04401                      | -2.50           | 2.50           | Pass   |
| 40              | 3.3         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.04446                       | -2.50           | 2.50           | Pass   |
| 40              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.00462                      | -2.50           | 2.50           | Pass   |
| 40              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.04767                      | -2.50           | 2.50           | Pass   |
| 40              | 3.6         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1909.8          | 0.03301                       | -2.50           | 2.50           | Pass   |
| 40              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1850.2          | -0.00205                      | -2.50           | 2.50           | Pass   |
| 40              | 4.2         | EGPRS    | PCS 1900 | 8PSK       | Class12    | 1880.0          | -0.03645                      | -2.50           | 2.50           | Pass   |

|    |     |       |          |      |         |        |          |       |      |      |
|----|-----|-------|----------|------|---------|--------|----------|-------|------|------|
| 40 | 4.2 | EGPRS | PCS 1900 | 8PSK | Class12 | 1909.8 | 0.02662  | -2.50 | 2.50 | Pass |
| 50 | 3.3 | EGPRS | PCS 1900 | 8PSK | Class12 | 1850.2 | -0.03645 | -2.50 | 2.50 | Pass |
| 50 | 3.3 | EGPRS | PCS 1900 | 8PSK | Class12 | 1880.0 | -0.02139 | -2.50 | 2.50 | Pass |
| 50 | 3.3 | EGPRS | PCS 1900 | 8PSK | Class12 | 1909.8 | -0.00580 | -2.50 | 2.50 | Pass |
| 50 | 3.6 | EGPRS | PCS 1900 | 8PSK | Class12 | 1850.2 | 0.02901  | -2.50 | 2.50 | Pass |
| 50 | 3.6 | EGPRS | PCS 1900 | 8PSK | Class12 | 1880.0 | 0.00788  | -2.50 | 2.50 | Pass |
| 50 | 3.6 | EGPRS | PCS 1900 | 8PSK | Class12 | 1909.8 | 0.00544  | -2.50 | 2.50 | Pass |
| 50 | 4.2 | EGPRS | PCS 1900 | 8PSK | Class12 | 1850.2 | 0.00603  | -2.50 | 2.50 | Pass |
| 50 | 4.2 | EGPRS | PCS 1900 | 8PSK | Class12 | 1880.0 | -0.00647 | -2.50 | 2.50 | Pass |
| 50 | 4.2 | EGPRS | PCS 1900 | 8PSK | Class12 | 1909.8 | 0.01990  | -2.50 | 2.50 | Pass |