

TEST REPORT

FCC MPE Test for RT4423-48A
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2208-FC005

DATE OF ISSUE
September 23, 2022

Tested by
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|--|--|
| TEST REPORT FCC MPE Test for RT4423-48A | REPORT NO. HCT-RF-2208-FC005 |
| | DATE OF ISSUE September 23, 2022 |
| | Additional Model - |

| | |
|------------------|--|
| Applicant | SAMSUNG Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea |
|------------------|--|

| | |
|--------------------------------|---------------------------|
| Eut Type Model Name | RRU(RT4423) RT4423-48A |
|--------------------------------|---------------------------|

| | |
|---------------|---------------|
| FCC ID | A3LRT4423-48A |
|---------------|---------------|

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

| Revision No. | Date of Issue | Description |
|--------------|--------------------|-----------------|
| 0 | September 23, 2022 | Initial Release |

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr

RF Exposure Statement

1. Limit

According to § 1.1310, § 2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

| Frequency range (MHz) | Electric field Strength (V/m) | Magnetic field Strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|-----------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| 0.3 - 1.34..... | 614 | 1.63 | *(100) | 30 |
| 1.34 - 30..... | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30 - 300..... | 27.5 | 0.073 | 0.2 | 30 |
| 300 - 1500..... | | | f/1500 | 30 |
| 1500 - 100.000..... | | | 1.0 | 30 |

F = frequency in MHz

* = Plane-wave equivalent power density

2. Maximum Permissible Exposure Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

3. RESULTS

3.1 MPE calculation for standalone operations

- CBRS NR 10 MHz 1 Carrier

| | | |
|---|----------|--------------------|
| Max Peak output Power at antenna input terminal | 37.02 | dBm |
| Max Peak output Power at antenna input terminal | 5 035.01 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 11.00 | dBi |
| Antenna Gain(numeric) | 12.589 | - |
| Power density at prediction frequency(S) | 0.1261 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 20 MHz 1 Carrier

| | | |
|---|----------|--------------------|
| Max Peak output Power at antenna input terminal | 39.98 | dBm |
| Max Peak output Power at antenna input terminal | 9 954.05 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 11.00 | dBi |
| Antenna Gain(numeric) | 12.589 | - |
| Power density at prediction frequency(S) | 0.2493 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 30 MHz 1 Carrier

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 40.78 | dBm |
| Max Peak output Power at antenna input terminal | 11 967.41 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.3773 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 40 MHz 1 Carrier

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 42.00 | dBm |
| Max Peak output Power at antenna input terminal | 15 848.93 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.4997 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 60 MHz 1 Carrier

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.81 | dBm |
| Max Peak output Power at antenna input terminal | 24 043.63 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.7581 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 80 MHz 1 Carrier

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 100 MHz 1 Carrier

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE 5 MHz 1 Carrier

| | | |
|---|----------|--------------------|
| Max Peak output Power at antenna input terminal | 34.01 | dBm |
| Max Peak output Power at antenna input terminal | 2 517.68 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 11.00 | dBi |
| Antenna Gain(numeric) | 12.589 | - |
| Power density at prediction frequency(S) | 0.0631 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE 10 MHz 1 Carrier

| | | |
|---|----------|--------------------|
| Max Peak output Power at antenna input terminal | 37.02 | dBm |
| Max Peak output Power at antenna input terminal | 5 035.01 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 11.00 | dBi |
| Antenna Gain(numeric) | 12.589 | - |
| Power density at prediction frequency(S) | 0.1261 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE 15 MHz 1 Carrier

| | | |
|---|----------|--------------------|
| Max Peak output Power at antenna input terminal | 38.78 | dBm |
| Max Peak output Power at antenna input terminal | 7 550.92 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 11.00 | dBi |
| Antenna Gain(numeric) | 12.589 | - |
| Power density at prediction frequency(S) | 0.1891 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE 20 MHz 1 Carrier

| | | |
|---|----------|--------------------|
| Max Peak output Power at antenna input terminal | 39.98 | dBm |
| Max Peak output Power at antenna input terminal | 9 954.05 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 11.00 | dBi |
| Antenna Gain(numeric) | 12.589 | - |
| Power density at prediction frequency(S) | 0.2493 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR(60 MHz 1C + 30 MHz 1C)[2C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE(15 MHz 1C + 15 MHz 1C)[2C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 40.82 | dBm |
| Max Peak output Power at antenna input terminal | 12 078.14 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.3808 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE 5 MHz 1C + NR 10 MHz 1C[2C] (Contiguous)

| | | |
|---|----------|--------------------|
| Max Peak output Power at antenna input terminal | 37.72 | dBm |
| Max Peak output Power at antenna input terminal | 5 915.62 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 11.00 | dBi |
| Antenna Gain(numeric) | 12.589 | - |
| Power density at prediction frequency(S) | 0.1482 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR(20 MHz 1C + 20 MHz 1C + 10 MHz 1C)[3C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 42.99 | dBm |
| Max Peak output Power at antenna input terminal | 19 906.73 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.6277 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR(30 MHz 1C + 30 MHz 1C + 10 MHz 1C)[3C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.48 | dBm |
| Max Peak output Power at antenna input terminal | 22 284.35 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.8846 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE(15 MHz 1C + 15 MHz 1C + 10 MHz 1C)[3C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 42.05 | dBm |
| Max Peak output Power at antenna input terminal | 16 032.45 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.5055 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE(20 MHz 1C + 15 MHz 1C + 15 MHz 1C)[3C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.01 | dBm |
| Max Peak output Power at antenna input terminal | 19 998.62 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.6306 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE(20 MHz 1C + 20 MHz 1C + 20 MHz 1C)[3C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.77 | dBm |
| Max Peak output Power at antenna input terminal | 23 823.19 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.7512 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)[4C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.00 | dBm |
| Max Peak output Power at antenna input terminal | 25 118.86 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9971 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE(15 MHz 1C + 15 MHz 1C + 15 MHz 1C + 15 MHz 1C + 10 MHz 1C)[5C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.48 | dBm |
| Max Peak output Power at antenna input terminal | 22 284.35 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.8846 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 10 MHz 1C)[5C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.00 | dBm |
| Max Peak output Power at antenna input terminal | 25 118.86 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9971 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)[5C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.00 | dBm |
| Max Peak output Power at antenna input terminal | 25 118.86 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9971 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 40 MHz 1C + NR 20 MHz 1C + NR 20 MHz 1C + LTE 10 MHz 1C + LTE 10 MHz 1C[5C]

(Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 40 MHz 1C + NR 10 MHz 1C + LTE 20 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C[5C] (Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR(60 MHz 1C + 30 MHz 1C)[2C] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE(15 MHz 1C + 15 MHz 1C)[2C] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 40.82 | dBm |
| Max Peak output Power at antenna input terminal | 12 078.14 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.3808 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE 5 MHz 1C + NR 10 MHz 1C[2C] ((Non-Contiguous)

| | | |
|---|----------|--------------------|
| Max Peak output Power at antenna input terminal | 37.72 | dBm |
| Max Peak output Power at antenna input terminal | 5 915.62 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 11.00 | dBi |
| Antenna Gain(numeric) | 12.589 | - |
| Power density at prediction frequency(S) | 0.1482 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR[20 MHz 1C + (20 MHz 1C + 10 MHz 1C)][3C(1C+2C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 42.99 | dBm |
| Max Peak output Power at antenna input terminal | 19 906.73 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.6277 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR[(20 MHz 1C + 20 MHz 1C) + 10 MHz 1C][3C(2C+1C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 42.99 | dBm |
| Max Peak output Power at antenna input terminal | 19 906.73 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.6277 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR[30 MHz 1C + (30 MHz 1C + 10 MHz 1C)][3C(1C+2C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.48 | dBm |
| Max Peak output Power at antenna input terminal | 22 284.35 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.8846 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR[(30 MHz 1C + 30 MHz 1C) + 10 MHz 1C][3C(2C+1C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.48 | dBm |
| Max Peak output Power at antenna input terminal | 22 284.35 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.8846 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[15 MHz 1C + (15 MHz 1C + 10 MHz 1C)][3C(1C+2C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 42.05 | dBm |
| Max Peak output Power at antenna input terminal | 16 032.45 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.5055 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[(15 MHz 1C + 15 MHz 1C) + 10 MHz 1C][3C(2C+1C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 42.05 | dBm |
| Max Peak output Power at antenna input terminal | 16 032.45 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.5055 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[20 MHz 1C + (15 MHz 1C + 15 MHz 1C)][3C(1C+2C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.01 | dBm |
| Max Peak output Power at antenna input terminal | 19 998.62 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.6306 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[(20 MHz 1C + 15 MHz 1C) + 15 MHz 1C][3C(2C+1C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.01 | dBm |
| Max Peak output Power at antenna input terminal | 19 998.62 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.6306 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

CBRS LTE[20 MHz 1C + (20 MHz 1C + 20 MHz 1C)][3C(1C+2C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.77 | dBm |
| Max Peak output Power at antenna input terminal | 23 823.19 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.7512 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[(20 MHz 1C + 20 MHz 1C) + 20 MHz 1C][3C(2C+1C)] (Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.77 | dBm |
| Max Peak output Power at antenna input terminal | 23 823.19 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 12.00 | dBi |
| Antenna Gain(numeric) | 15.849 | - |
| Power density at prediction frequency(S) | 0.7512 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[20 MHz 1C + (20 MHz 1C + 20 MHz 1C + 20 MHz 1C)][4C(1C+3C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.00 | dBm |
| Max Peak output Power at antenna input terminal | 25 118.86 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9971 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[(20 MHz 1C + 20 MHz 1C + 20 MHz 1C) + 20 MHz 1C][4C(3C+1C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.00 | dBm |
| Max Peak output Power at antenna input terminal | 25 118.86 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9971 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[15 MHz 1C + (15 MHz 1C + 15 MHz 1C + 15 MHz 1C + 10 MHz 1C)][5C(1C+4C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.48 | dBm |
| Max Peak output Power at antenna input terminal | 22 284.35 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.8846 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[(15 MHz 1C + 15 MHz 1C + 15 MHz 1C + 15 MHz 1C) + 10 MHz 1C][5C(4C+1C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 43.48 | dBm |
| Max Peak output Power at antenna input terminal | 22 284.35 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.8846 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[20 MHz 1C + (20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 10 MHz 1C)][5C(1C+4C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.00 | dBm |
| Max Peak output Power at antenna input terminal | 25 118.86 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9971 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C) + 10 MHz 1C][5C(4C+1C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.00 | dBm |
| Max Peak output Power at antenna input terminal | 25 118.86 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9971 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[20 MHz 1C + (20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C)][5C(1C+4C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.00 | dBm |
| Max Peak output Power at antenna input terminal | 25 118.86 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9971 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS LTE[(20 MHz 1C + 20 MHz 1C + 20 MHz 1C + 20 MHz 1C) + 20 MHz 1C][5C(4C+1C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.00 | dBm |
| Max Peak output Power at antenna input terminal | 25 118.86 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9971 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 40 MHz 1C + (NR 20 MHz 1C + NR 20 MHz 1C + LTE 10 MHz 1C + LTE 10 MHz 1C)[5C(1C+4C)]
(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS (NR 40 MHz 1C + NR 20 MHz 1C + NR 20 MHz 1C + LTE 10 MHz 1C) + LTE 10 MHz 1C [5C(4C+1C)]
(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS NR 40 MHz 1C + (NR 10 MHz 1C + LTE 20 MHz 1C + LTE 5 MHz 1C + LTE 5 MHz 1C)[5C(1C+4C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |

- CBRS (NR 40 MHz 1C + NR 10 MHz 1C + LTE 20 MHz 1C + LTE 5 MHz 1C) + LTE 5 MHz 1C[5C(4C+1C)]

(Non-Contiguous)

| | | |
|---|-----------|--------------------|
| Max Peak output Power at antenna input terminal | 44.01 | dBm |
| Max Peak output Power at antenna input terminal | 25 176.77 | mW |
| Prediction distance | 200.00 | cm |
| Prediction frequency | 3 550.00 | MHz |
| Antenna Gain(typical) | 13.00 | dBi |
| Antenna Gain(numeric) | 19.953 | - |
| Power density at prediction frequency(S) | 0.9994 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 1.0000 | mW/cm ² |