



XMH 2022.02.07.0

# AVERAGE POWER - BAND n12

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model  | ID  | Last Cal.  | Cal. Due   |
|------------------------------|--------------------|--------|-----|------------|------------|
| Block - DC                   | Fairview Microwave | SD3239 | ANE | 2022-03-02 | 2023-03-02 |
| Generator - Signal           | Agilent            | N5173B | TIW | 2020-07-17 | 2023-07-17 |
| Analyzer - Spectrum Analyzer | Keysight           | N9010A | AFQ | 2022-01-17 | 2023-01-17 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

The method in section 5.2.4.4 of ANSI C63.26 was used to make the measurements. This method uses trace averaging across the ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using RMS detector. Following the measurement a duty cycle correction was applied by adding  $[10 \log (1/D)]$ , where D is the duty cycle in decimal, to the measured power to compute the average power during the actual transmission times.

AHLBBA antenna ports 1&4 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

The total average transmit power of all antenna ports was determined per ANSI C63.26-2105 paragraph 6.4.3.1

# AVERAGE POWER - BAND n12



TRFv 2022.06.03.0 XMI 2022.02.07.0

|  |                               |
|--|-------------------------------|
| EUT: AHLBBA (C2PC/C3PC FCC/ISED)       | Work Order: NOKI0047          |
| Serial Number: K9193514835             | Date: 30-Jul-22               |
| Customer: Nokia of America Corporation | Temperature: 21.2 °C          |
| Attendees: Mitchell Hill               | Humidity: 63.5% RH            |
| Project: None                          | Barometric Pres.: 1018 mbar   |
| Tested by: Marty Martin                | Power: 54VDC                  |
|  | Job Site: TX07                |
| <b>TEST SPECIFICATIONS</b>             |                               |
| FCC 27:2022                            | Test Method: ANSI C63.26:2015 |
| RSS-130 Issue 2: 2019                  | ANSI C63.26:2015              |

**COMMENTS**  
 All measurement path losses were accounted for in the reference level offset including attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power. The total output power for multiport (2x2, 4x4 MIMO) operation was determined based upon ANSI 63.26 clauses 6.4.3.1 and 6.4.3.2.4 (10 log Nout). The total output power for two port operation is single port power + 3dB [i.e. 10log(2)] and the total output power for a four port operation is single port power + 6dB [i.e. 10log(4)].

**DEVIATIONS FROM TEST STANDARD**  
 None

|                 |   |                |                      |
|-----------------|---|----------------|----------------------|
| Configuration # | 2 | Signature      | <i>Marty Martin</i>  |
|                 |   | Initial Value  | Duty Cycle           |
|                 |   | dBm/MHz        | Factor (dB)          |
|                 |   | Single Port    | Two Port (2x2 MIMO)  |
|                 |   | dBm/Carrier BW | Four Port (4x4 MIMO) |
|                 |   |                | dBm/Carrier BW       |

| Port 1 | Band n12, 729 - 745 Mhz | 5 MHz Bandwidth  | QPSK Modulation   | Mid Channel, 737.0 MHz  | 49.062 | 0 | 49.0 | 52.0 | 55.0 |
|--------|-------------------------|------------------|-------------------|-------------------------|--------|---|------|------|------|
|        |                         |                  | 16QAM Modulation  | Mid Channel, 737.0 MHz  | 48.897 | 0 | 48.9 | 51.9 | 54.9 |
|        |                         |                  | 64QAM Modulation  | Mid Channel, 737.0 MHz  | 49.087 | 0 | 49.1 | 52.1 | 55.1 |
|        |                         |                  | 256QAM Modulation | Low Channel, 731.5 MHz  | 49.097 | 0 | 49.1 | 52.1 | 55.1 |
|        |                         |                  |                   | Mid Channel, 737.0 MHz  | 49.111 | 0 | 49.1 | 52.1 | 55.1 |
|        |                         |                  |                   | High Channel, 742.5 MHz | 49.076 | 0 | 49.1 | 52.1 | 55.1 |
|        |                         | 10 MHz Bandwidth | 256QAM Modulation | Low Channel, 734 MHz    | 49.069 | 0 | 49.1 | 52.1 | 55.1 |
|        |                         |                  |                   | Mid Channel, 737.0 MHz  | 49.066 | 0 | 49.1 | 52.1 | 55.1 |
|        |                         |                  |                   | High Channel, 740 MHz   | 48.975 | 0 | 49.0 | 52.0 | 55.0 |
|        |                         | 15 MHz Bandwidth | 256QAM Modulation | Low Channel, 736.5 MHz  | 49.052 | 0 | 49.1 | 52.1 | 55.1 |
|        |                         |                  |                   | Mid Channel, 737.0 MHz  | 49.02  | 0 | 49.0 | 52.0 | 55.0 |
|        |                         |                  |                   | High Channel, 737.5 MHz | 49.023 | 0 | 49.0 | 52.0 | 55.0 |

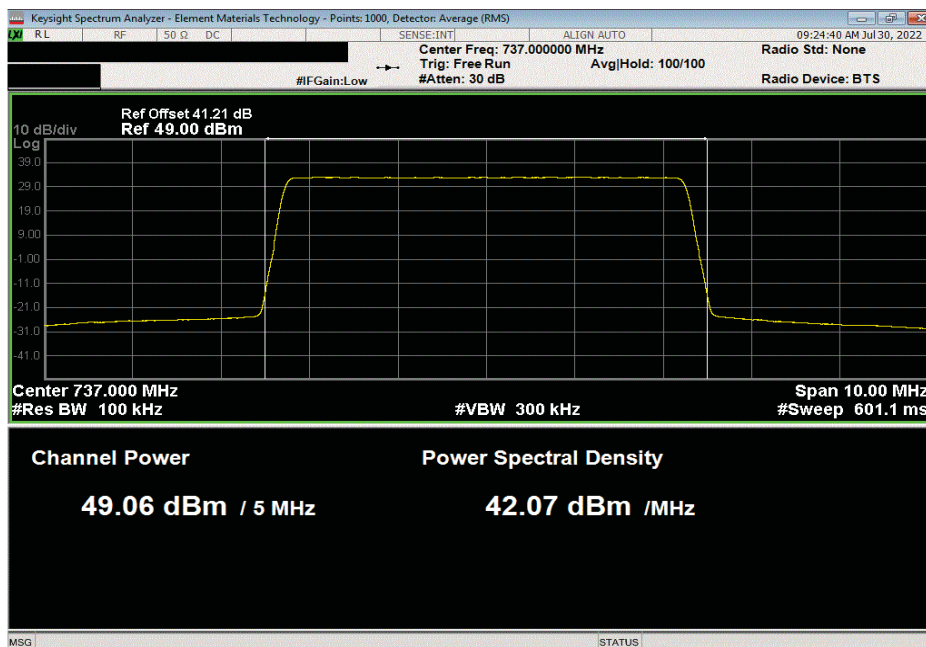
| Port 2 | Band n12, 729 - 745 Mhz | 5 MHz Bandwidth  | QPSK Modulation   | Mid Channel, 737.0 MHz  | 49.041 | 0 | 49.0 | 52.0 | 55.0 |
|--------|-------------------------|------------------|-------------------|-------------------------|--------|---|------|------|------|
|        |                         |                  | 16QAM Modulation  | Mid Channel, 737.0 MHz  | 48.817 | 0 | 48.8 | 51.8 | 54.8 |
|        |                         |                  | 64QAM Modulation  | Mid Channel, 737.0 MHz  | 49.019 | 0 | 49.0 | 52.0 | 55.0 |
|        |                         |                  | 256QAM Modulation | Low Channel, 731.5 MHz  | 49.003 | 0 | 49.0 | 52.0 | 55.0 |
|        |                         |                  |                   | Mid Channel, 737.0 MHz  | 48.965 | 0 | 49.0 | 52.0 | 55.0 |
|        |                         |                  |                   | High Channel, 742.5 MHz | 48.994 | 0 | 49.0 | 52.0 | 55.0 |
|        |                         | 10 MHz Bandwidth | 256QAM Modulation | Low Channel, 734 MHz    | 48.933 | 0 | 48.9 | 51.8 | 54.8 |
|        |                         |                  |                   | Mid Channel, 737.0 MHz  | 48.963 | 0 | 49.0 | 52.0 | 55.0 |
|        |                         |                  |                   | High Channel, 740 MHz   | 48.916 | 0 | 48.9 | 51.9 | 54.9 |
|        |                         | 15 MHz Bandwidth | 256QAM Modulation | Low Channel, 736.5 MHz  | 48.882 | 0 | 48.9 | 51.9 | 54.9 |
|        |                         |                  |                   | Mid Channel, 737.0 MHz  | 48.848 | 0 | 48.8 | 51.8 | 54.8 |
|        |                         |                  |                   | High Channel, 737.5 MHz | 48.912 | 0 | 48.9 | 51.9 | 54.9 |

# AVERAGE POWER - BAND n12

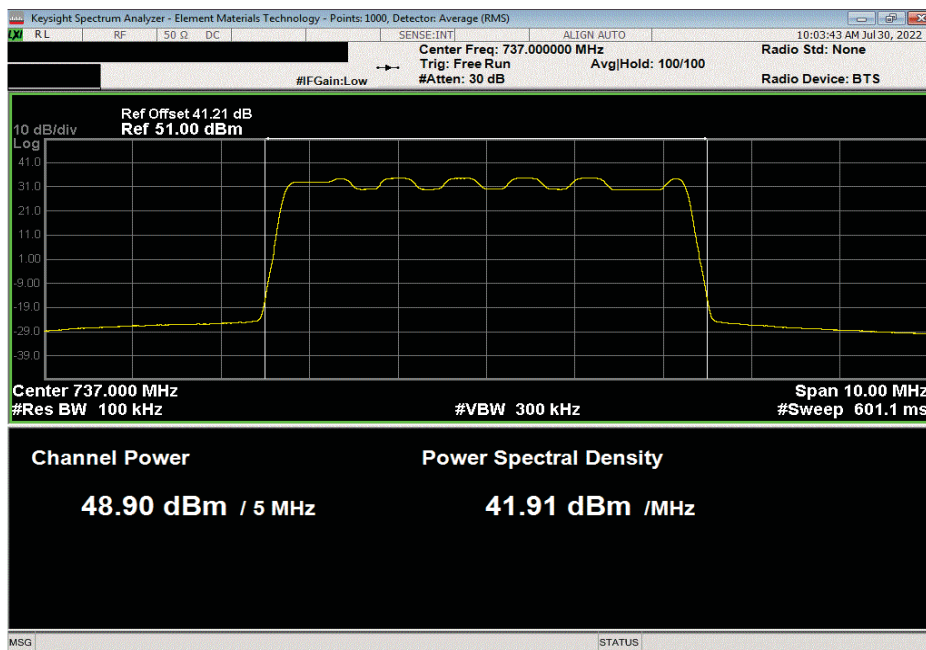


TnTx 2022.06.03.0 XMI 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |  |  |
|---|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.062  | 0           | 49.1           | 52.1                | 55.1                 |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 48.897   | 0           | 48.9           | 51.9                | 54.9                 |  |  |

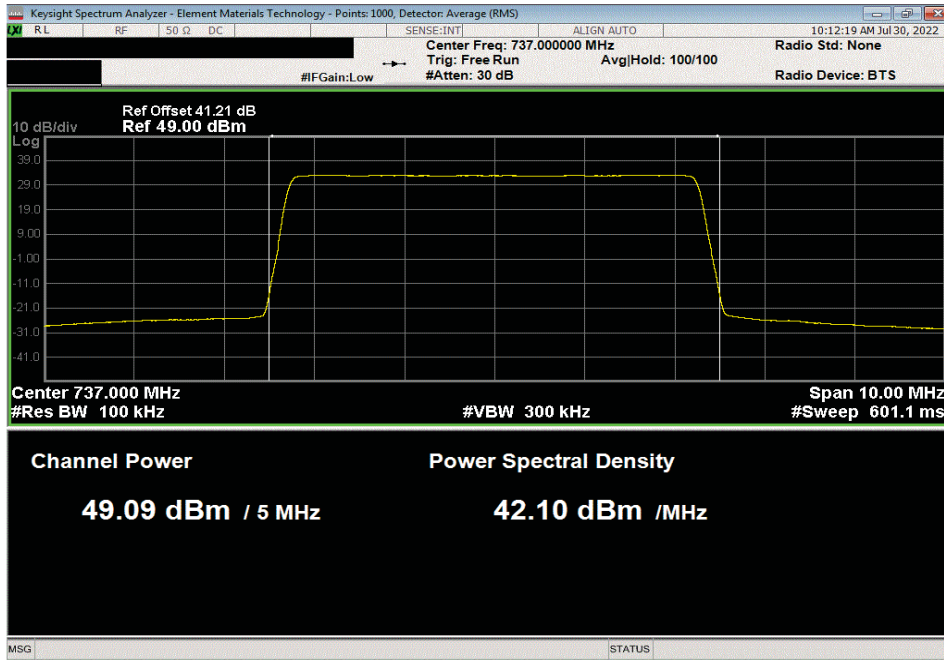


# AVERAGE POWER - BAND n12

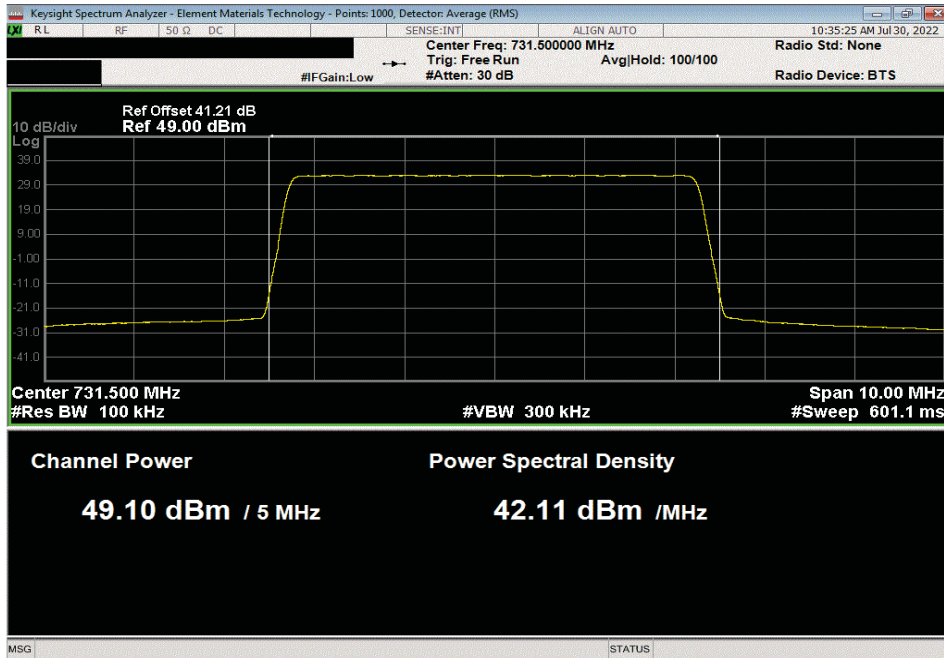


TMTx 2022.06.03.0 XMI 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.087   | 0           | 49.1           | 52.1                | 55.1                 |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 731.5 MHz |             |                |                     |                      |  |  |
|---|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.097  | 0           | 49.1           | 52.1                | 55.1                 |  |  |

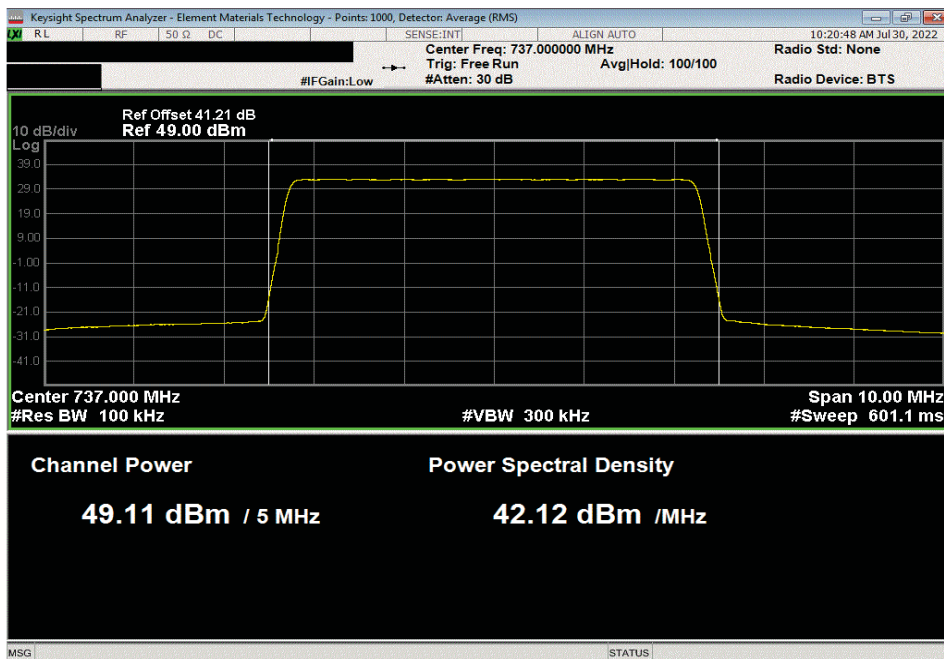


# AVERAGE POWER - BAND n12

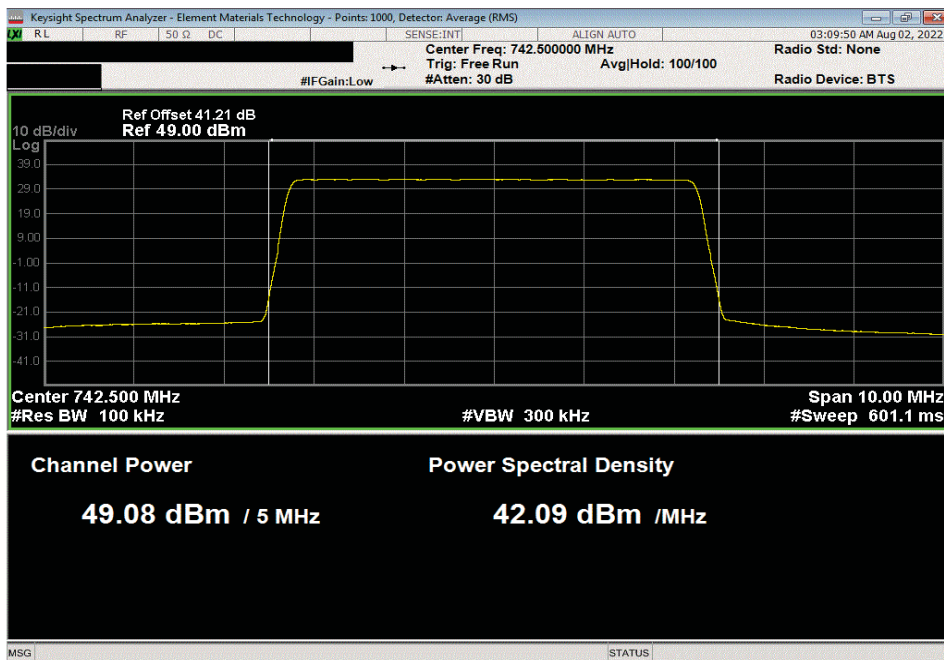


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| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |  |  |
|---|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.111  | 0           | 49.1           | 52.1                | 55.1                 |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 742.5 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.076   | 0           | 49.1           | 52.1                | 55.1                 |  |  |

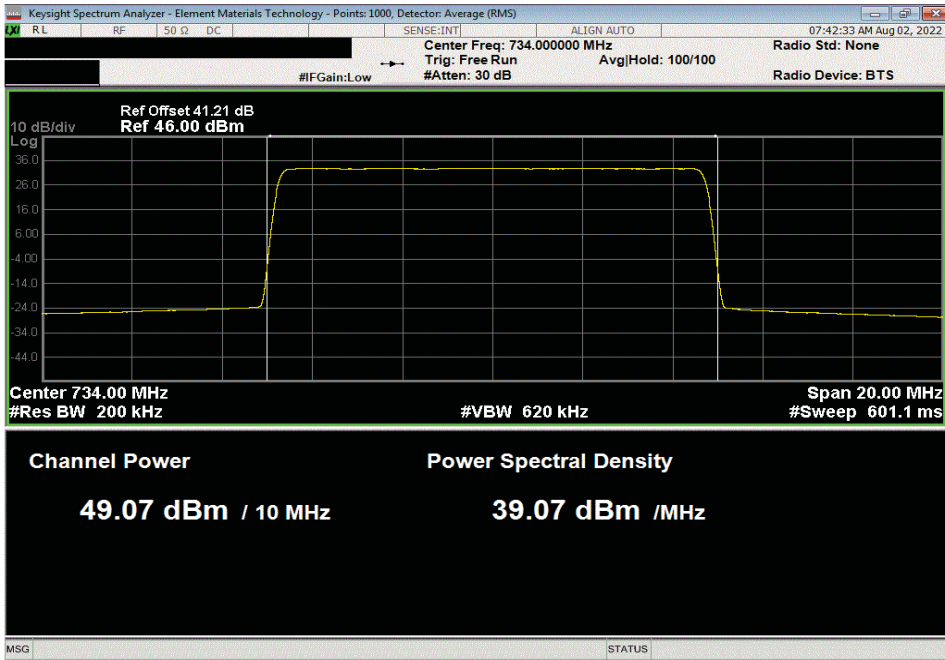


# AVERAGE POWER - BAND n12

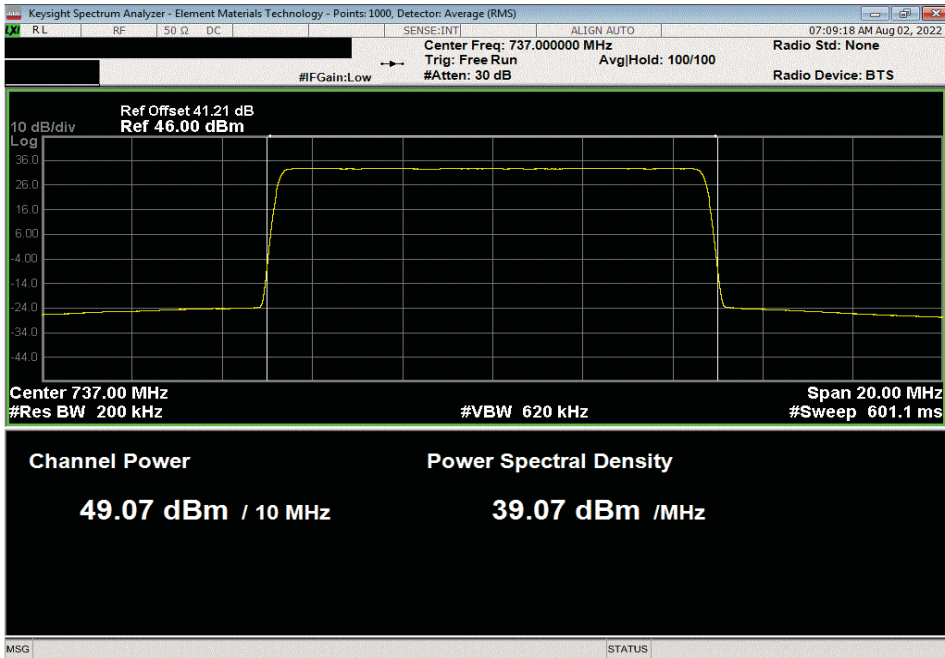


TbTx 2022.06.03.0 XMM 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Low Channel, 734 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.069   | 0           | 49.1           | 52.1                | 55.1                 |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.066   | 0           | 49.1           | 52.1                | 55.1                 |  |  |

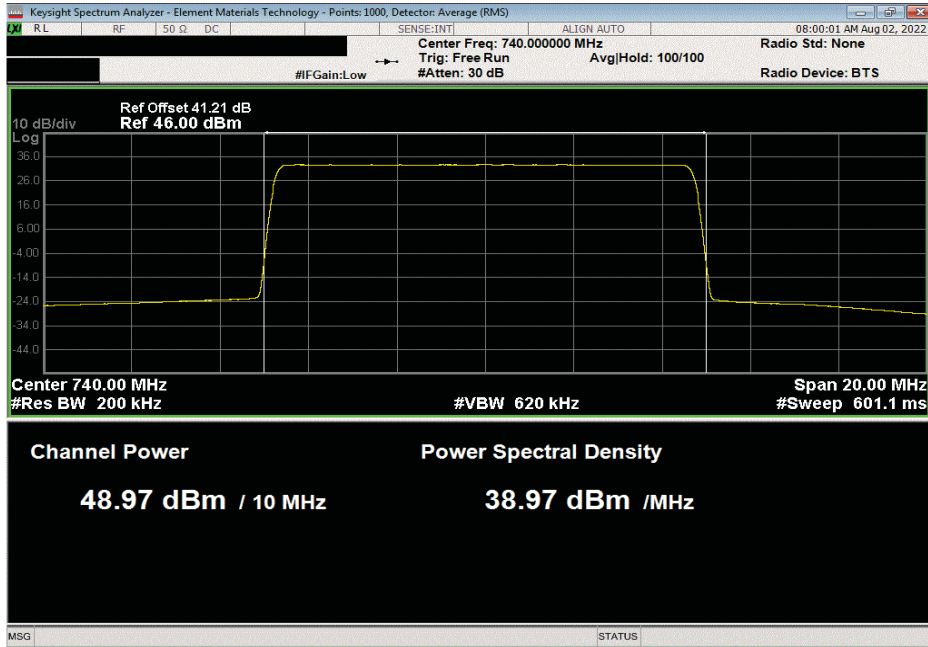


# AVERAGE POWER - BAND n12

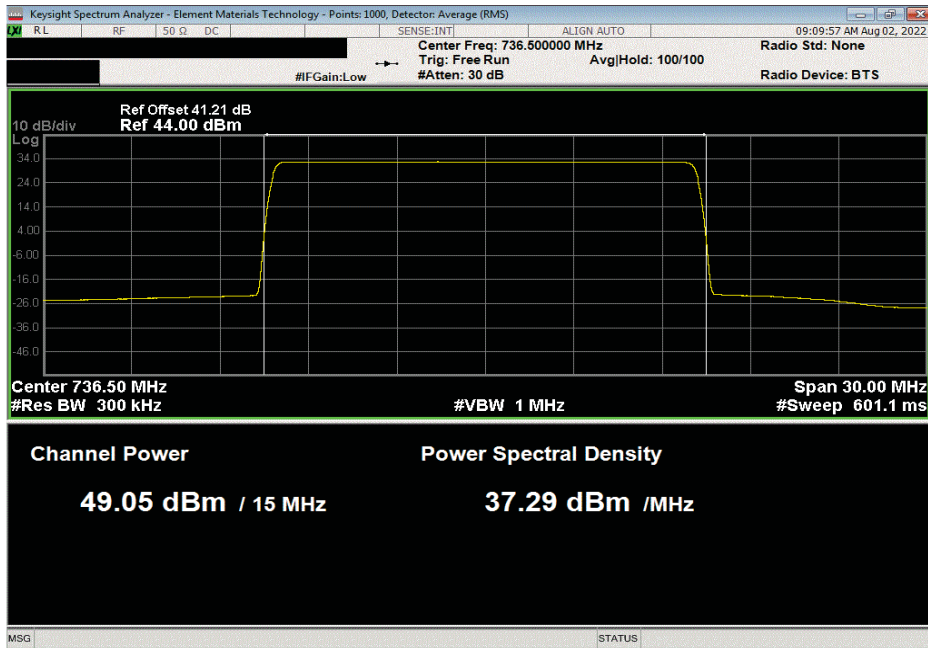


ThxTx 2022.06.03.0 XMM 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, High Channel, 740 MHz |             |                |                     |                      |  |  |
|---|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 48.975  | 0           | 49             | 52                  | 55                   |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Low Channel, 736.5 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.052   | 0           | 49.1           | 52.1                | 55.1                 |  |  |

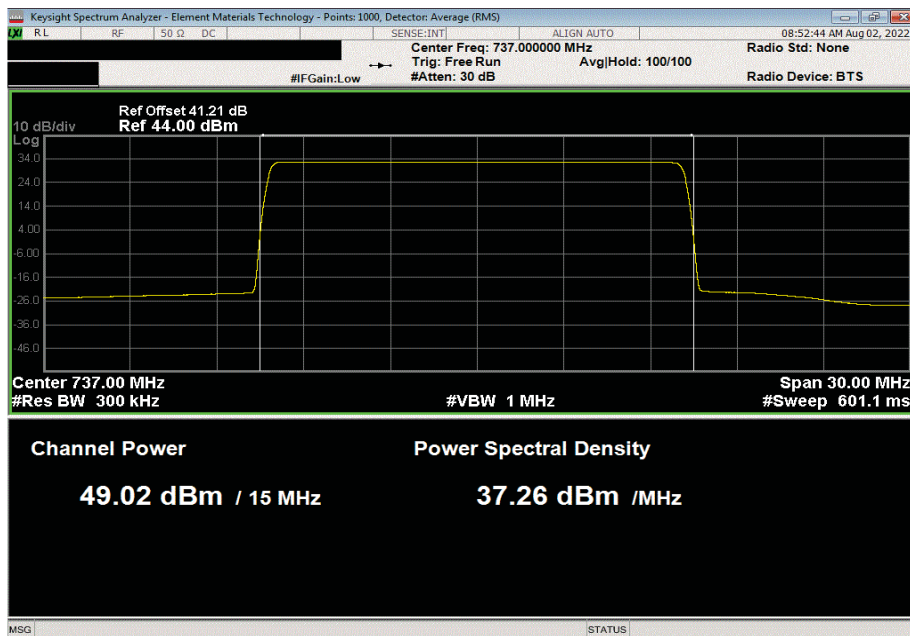


# AVERAGE POWER - BAND n12

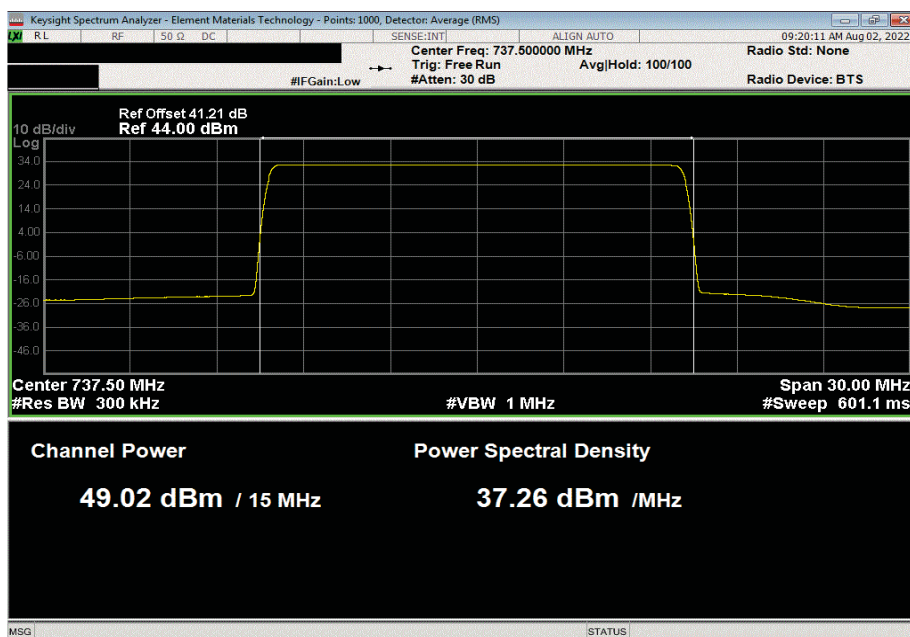


ThTx 2022.06.03.0 XMH 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.02  | 0           | 49             | 52                  | 55                   |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, High Channel, 737.5 MHz |             |                |                     |                      |  |  |
|---|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.023  | 0           | 49             | 52                  | 55                   |  |  |



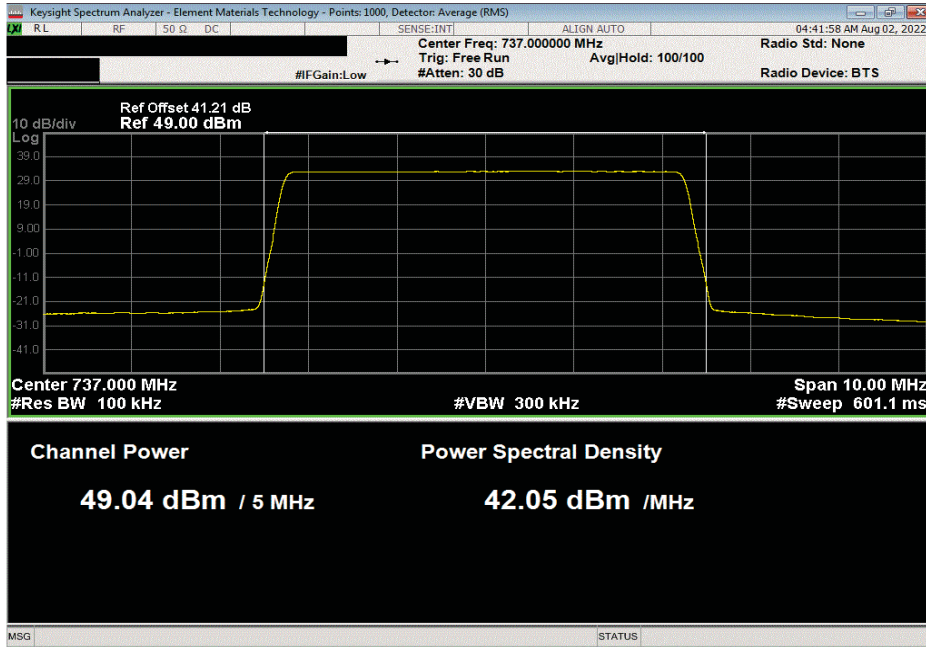


# AVERAGE POWER - BAND n12

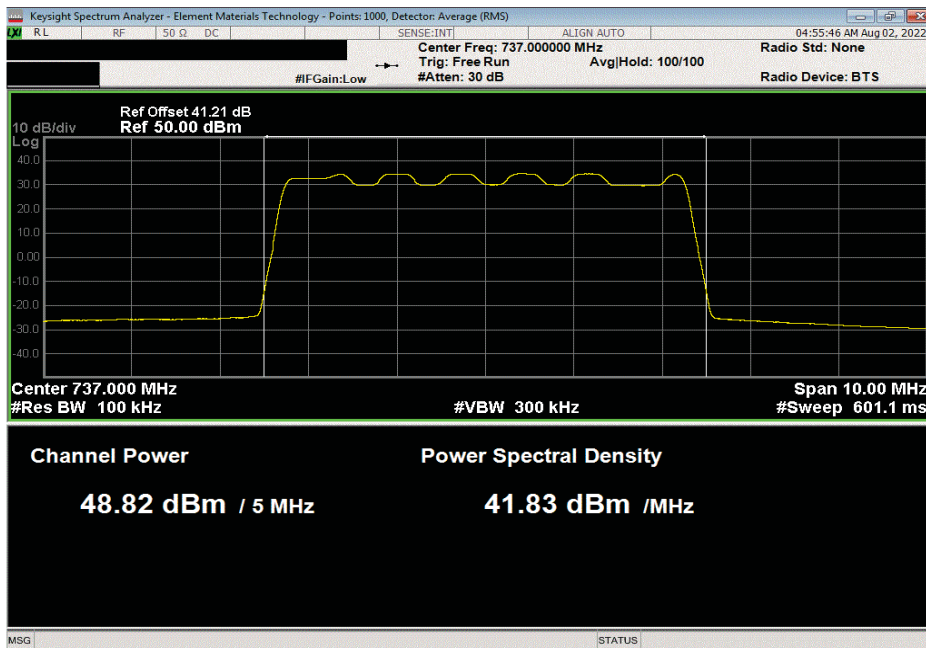


TbTx 2022\_05\_02\_0 XMN 2022\_02\_07\_0

| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |         |  |
|---|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 49.041  | 0           | 49             | 52                  | 55                   |         |  |



| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |         |  |
|--|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 48.817   | 0           | 48.8           | 51.8                | 54.8                 |         |  |

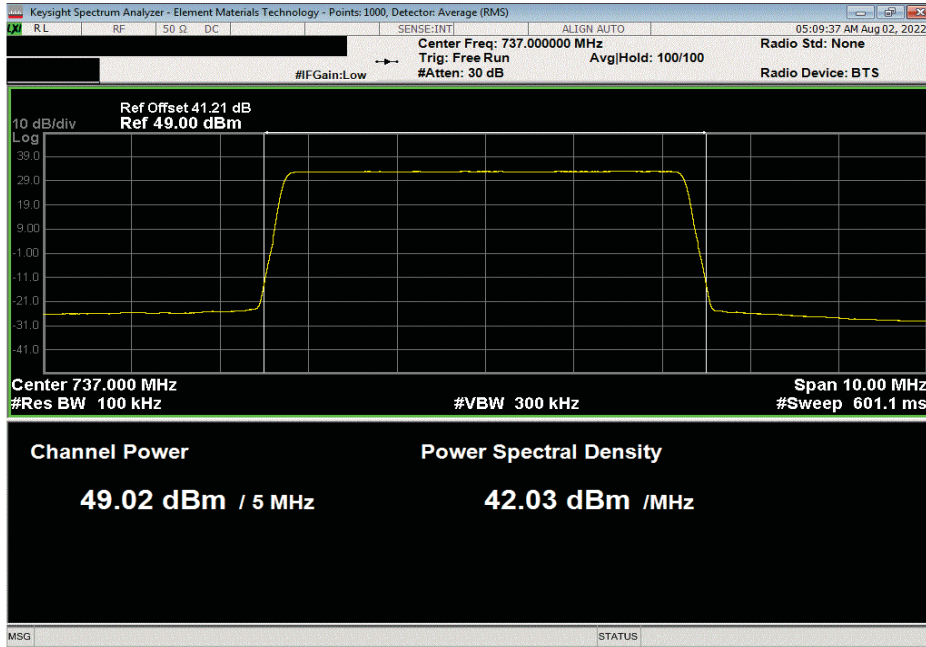


# AVERAGE POWER - BAND n12

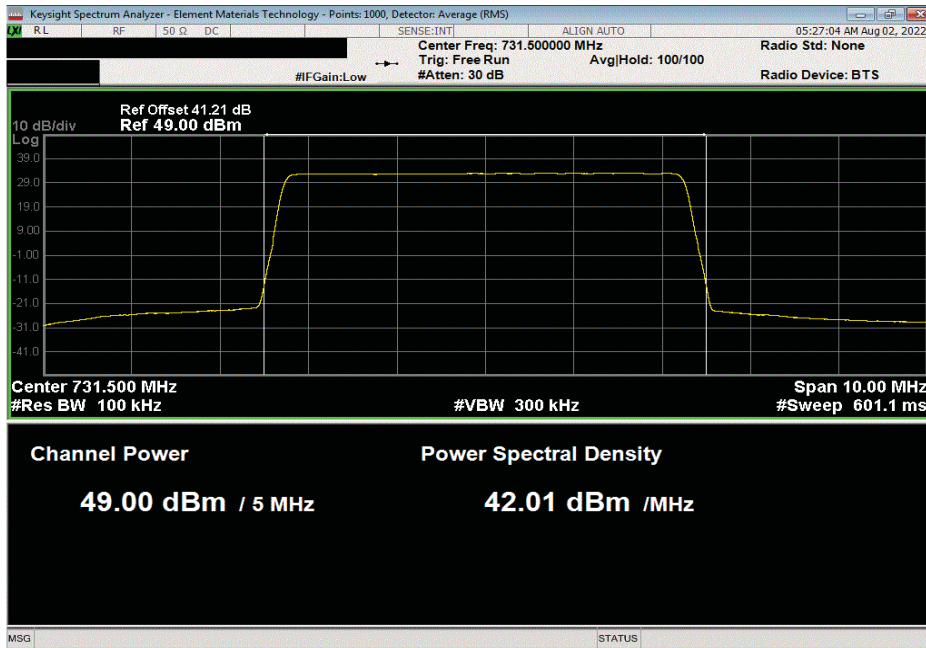


TbTx 2022.05.02.0 XMI 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |         |  |
|--|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 49.019   | 0           | 49             | 52                  | 55                   |         |  |



| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 731.5 MHz |             |                |                     |                      |         |  |
|---|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 49.003  | 0           | 49             | 52                  | 55                   |         |  |

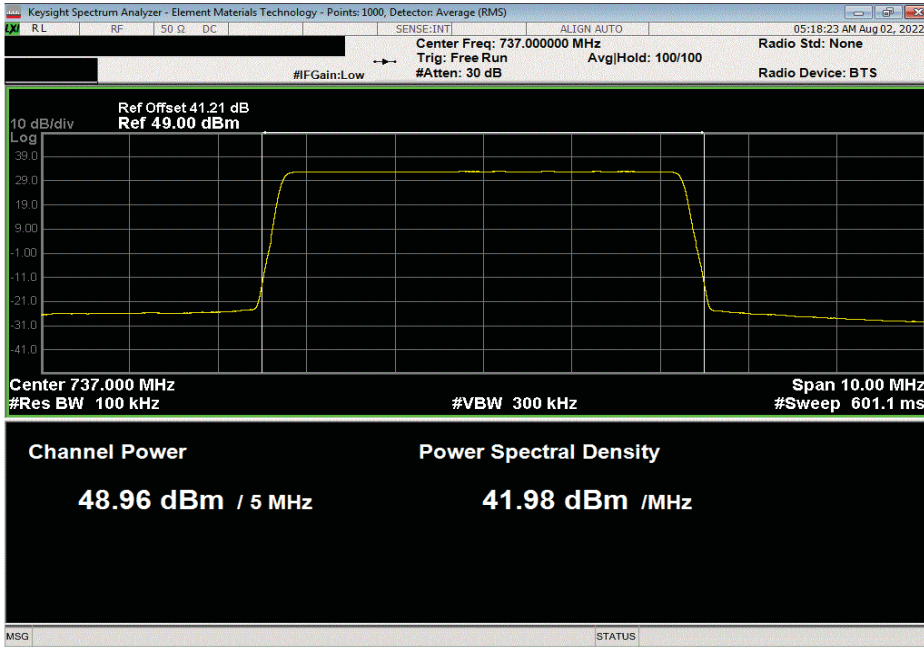


# AVERAGE POWER - BAND n12

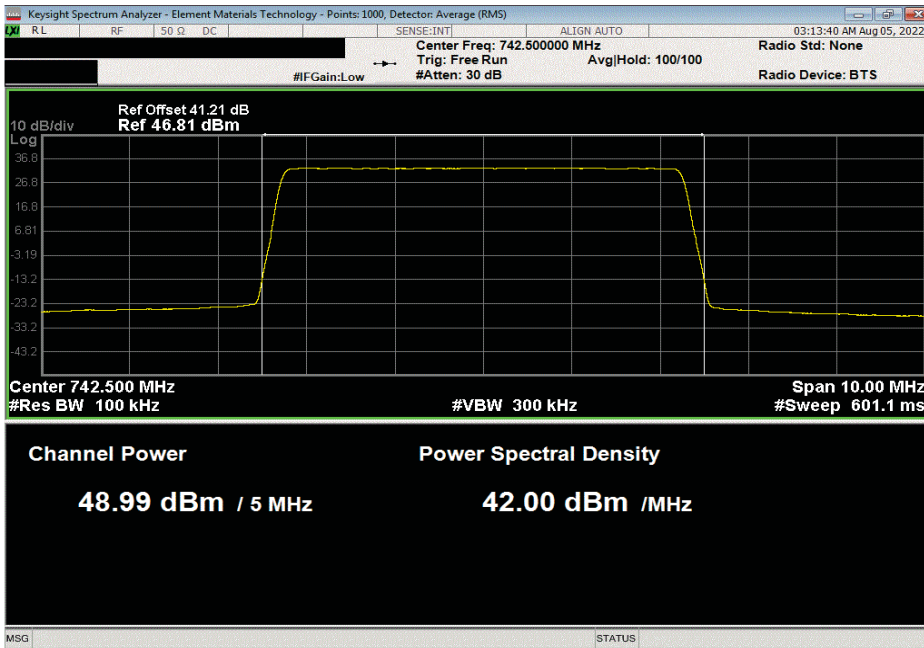


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| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |         |  |
|---|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 48.965  | 0           | 49             | 52                  | 55                   |         |  |



| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 742.5 MHz |             |                |                     |                      |         |  |
|--|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 48.994   | 0           | 49             | 52                  | 55                   |         |  |

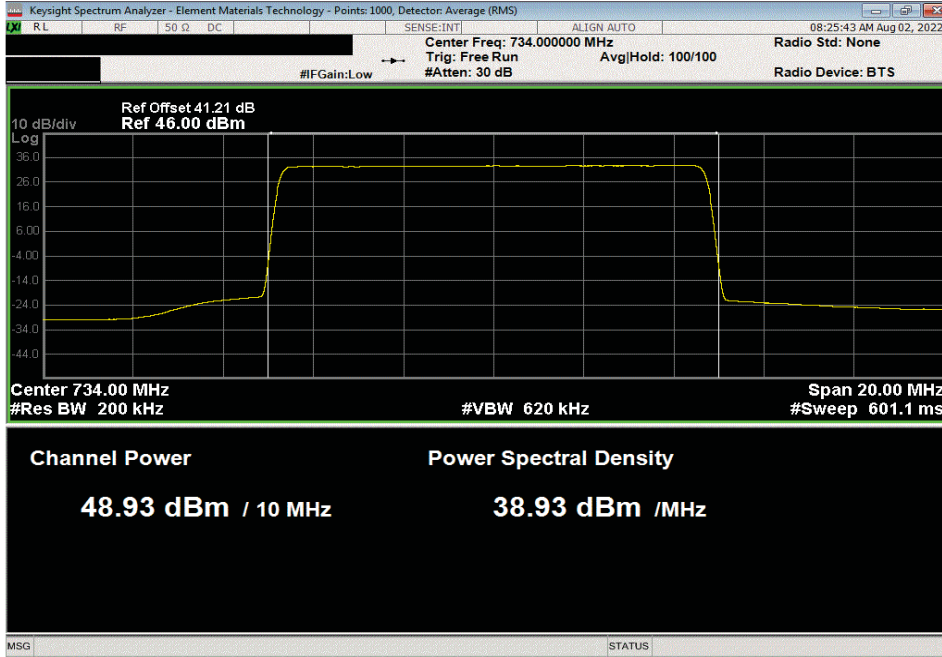


# AVERAGE POWER - BAND n12

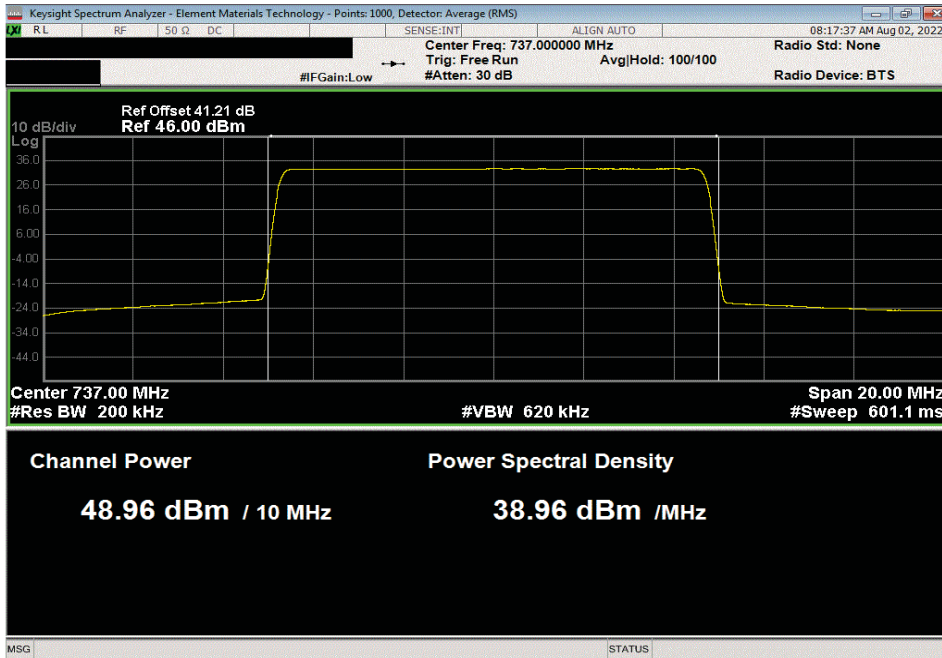


TbTb 2022.05.02.0 XMI 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Low Channel, 734 MHz |             |                |                     |                      |         |  |
|--|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 48.933   | 0           | 48.9           | 51.8                | 54.8                 |         |  |



| Port 2, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |         |  |
|--|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 48.963   | 0           | 49             | 52                  | 55                   |         |  |

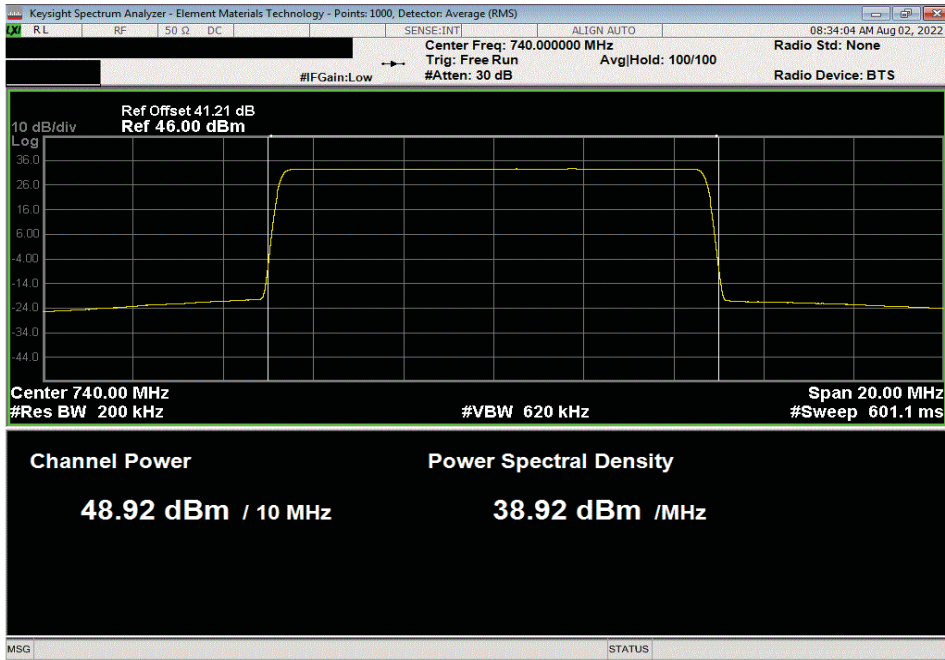


# AVERAGE POWER - BAND n12

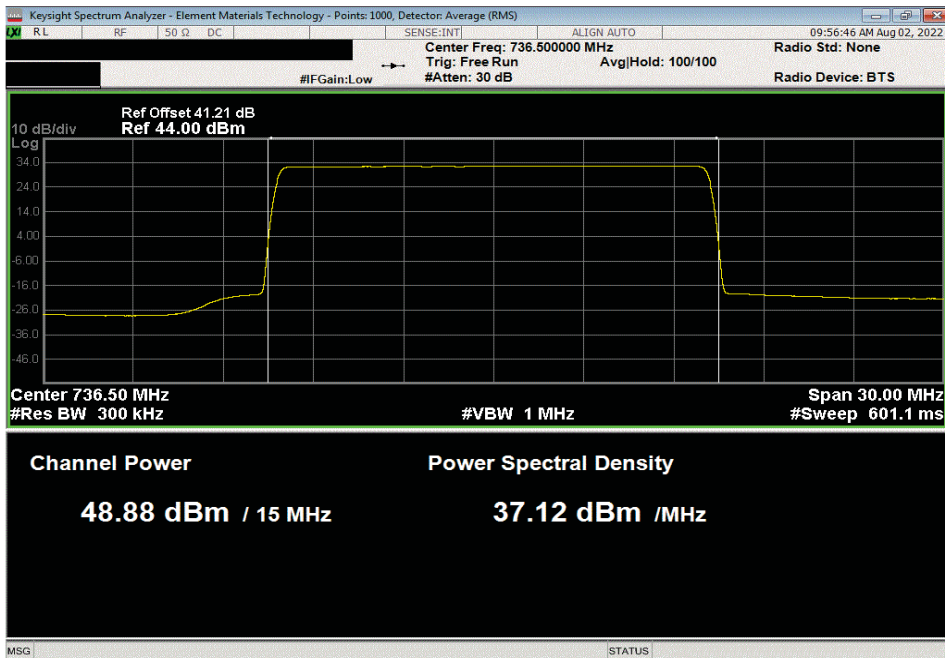


TbTx 2022.05.02.0 XMI 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, High Channel, 740 MHz |             |                |                     |                      |         |  |
|---|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 48.916  | 0           | 48.9           | 51.9                | 54.9                 |         |  |



| Port 2, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Low Channel, 736.5 MHz |             |                |                     |                      |         |  |
|--|-------------|----------------|---------------------|----------------------|---------|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) | Results |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |         |  |
| 48.882   | 0           | 48.9           | 51.9                | 54.9                 |         |  |

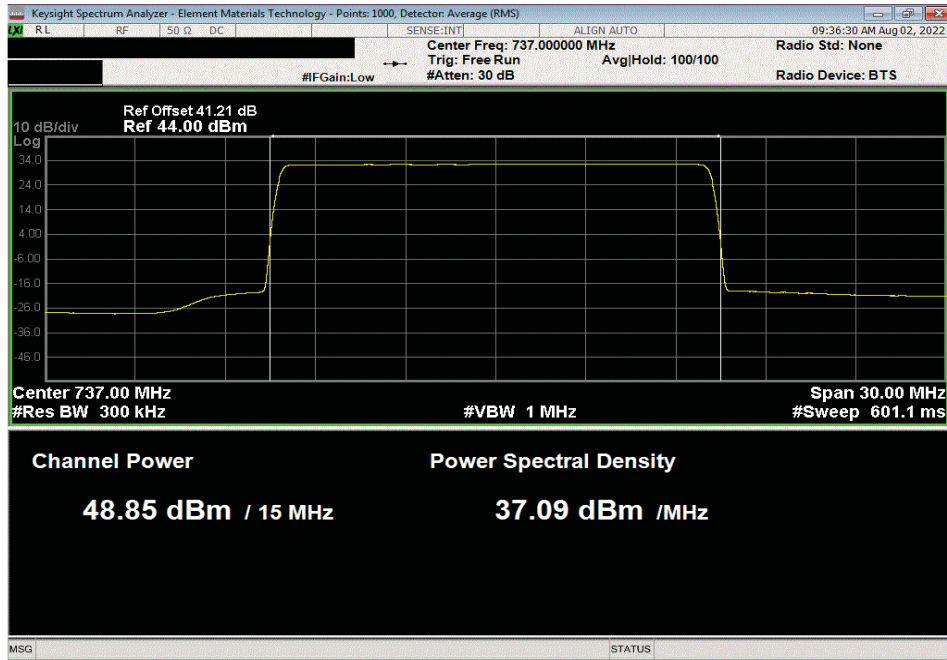


# AVERAGE POWER - BAND n12

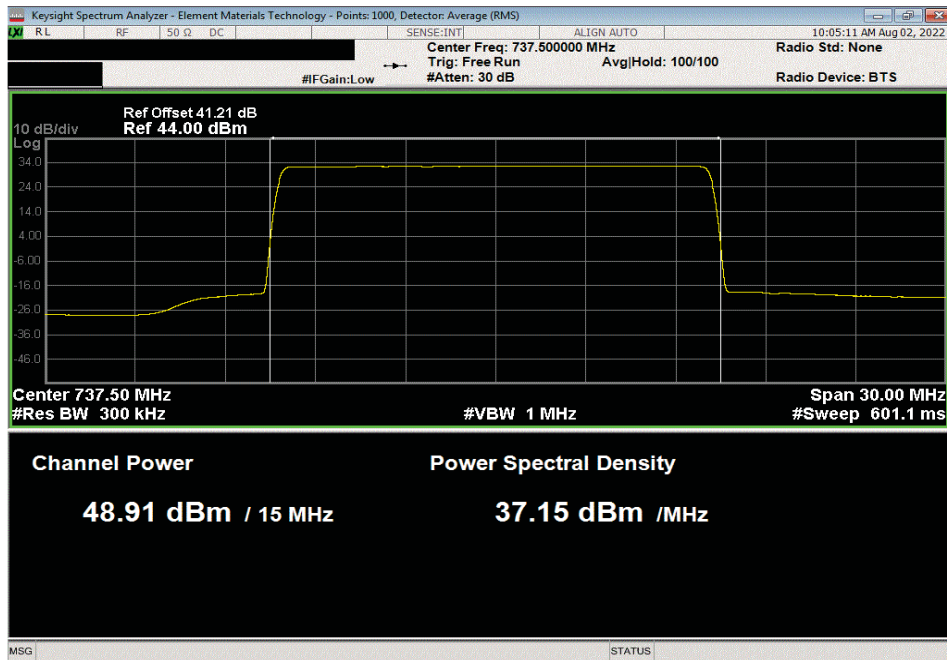


TkTx 2022.05.02.0 XMI 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |             |                |                     |                      |  | Results |
|--|-------------|----------------|---------------------|----------------------|--|---------|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |         |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |         |
| 48.848   | 0           | 48.8           | 51.8                | 54.8                 |  |         |



| Port 2, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, High Channel, 737.5 MHz |             |                |                     |                      |  | Results |
|---|-------------|----------------|---------------------|----------------------|--|---------|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |         |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |         |
| 48.912  | 0           | 48.9           | 51.9                | 54.9                 |  |         |





XMH 2022.02.07.0

# AVERAGE POWER - BAND n14

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model  | ID  | Last Cal.  | Cal. Due   |
|------------------------------|--------------------|--------|-----|------------|------------|
| Block - DC                   | Fairview Microwave | SD3239 | ANE | 2022-03-02 | 2023-03-02 |
| Generator - Signal           | Agilent            | N5173B | TIW | 2020-07-17 | 2023-07-17 |
| Analyzer - Spectrum Analyzer | Keysight           | N9010A | AFQ | 2022-01-17 | 2023-01-17 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

The method in section 5.2.4.4 of ANSI C63.26 was used to make the measurement. This method uses trace averaging across ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding  $[10 \log (1 / D)]$ , where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

AHLBBA antenna ports 1&4 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

The total average transmit power of all antenna ports was determined per ANSI C63.26-2105 paragraph 6.4.3.1

# AVERAGE POWER - BAND n14



THTx 2022.05.02.0 XMI 2022.02.07.0

|  |                             |
|--|-----------------------------|
| EUT: AHLBBA (C2PC/C3PC FCC/ISED)       | Work Order: NOKI0047        |
| Serial Number: K9193514835             | Date: 4-Aug-22              |
| Customer: Nokia Solutions and Networks | Temperature: 21.8 °C        |
| Attendees: Mitchell Hill               | Humidity: 52.9% RH          |
| Project: None                          | Barometric Pres.: 1018 mbar |
| Tested by: Marty Martin                | Power: 54VDC                |
|  | Job Site: TX07              |

| TEST SPECIFICATIONS   | Test Method      |
|-----------------------|------------------|
| RSS 140 Issue 1: 2018 | ANSI C63.26:2015 |
| FCC 90R:2022          | ANSI C63.26:2015 |

**COMMENTS**  
 All measurement path losses were accounted for in the reference level offset including attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power. The total output power for multipoint (2x2, 4x4 MIMO) operation was determined based upon ANSI 63.26 clauses 6.4.3.1 and 6.4.3.2.4 (10 log Nout). The total output power for two port operation is single port power + 3dB [i.e. 10log(2)] and the total output power for a four port operation is single port power + 6dB [i.e. 10log(4)].

**DEVIATIONS FROM TEST STANDARD**  
 None

|                 |   |                |                      |
|-----------------|---|----------------|----------------------|
| Configuration # | 2 | Signature      | <i>Marty Martin</i>  |
|                 |   | Initial Value  | Duty Cycle           |
|                 |   | dBm/MHz        | Factor (dB)          |
|                 |   | Single Port    | Two Port (2x2 MIMO)  |
|                 |   | dBm/Carrier BW | dBm/Carrier BW       |
|                 |   |                | Four Port (4x4 MIMO) |
|                 |   |                | dBm/Carrier BW       |

| Port              | Band                    | Modulation      | Channel           | Initial Value           | Duty Cycle      | Single Port     | Two Port (2x2 MIMO)  | Four Port (4x4 MIMO) |      |      |      |
|-------------------|-------------------------|-----------------|-------------------|-------------------------|-----------------|-----------------|----------------------|----------------------|------|------|------|
|                   |                         |                 |                   | dBm/MHz                 | Factor (dB)     | dBm/Carrier BW  | dBm/Carrier BW       | dBm/Carrier BW       |      |      |      |
| Port 1            | Band n14, 758 - 768 Mhz | 5 MHz Bandwidth | QPSK Modulation   |                         |                 |                 |                      |                      |      |      |      |
|                   |                         |                 |                   | Mid Channel, 763 MHz    | 49.157          | 0               | 49.2                 | 52.2                 | 55.2 |      |      |
|                   |                         |                 | 16QAM Modulation  |                         |                 |                 |                      |                      |      |      |      |
|                   |                         |                 |                   | Mid Channel, 763 MHz    | 48.931          | 0               | 48.9                 | 51.9                 | 54.9 |      |      |
|                   |                         |                 | 64QAM Modulation  |                         |                 |                 |                      |                      |      |      |      |
|                   |                         |                 |                   | Mid Channel, 763 MHz    | 49.225          | 0               | 49.2                 | 52.2                 | 55.2 |      |      |
|                   |                         |                 | 256QAM Modulation |                         |                 |                 |                      |                      |      |      |      |
|                   |                         |                 |                   | Mid Channel, 763 MHz    | 49.200          | 0               | 49.2                 | 52.2                 | 55.2 |      |      |
|                   |                         |                 |                   | High Channel, 765.5 MHz | 48.993          | 0               | 49.0                 | 52.0                 | 55.0 |      |      |
|                   |                         |                 |                   | 10 MHz Bandwidth        |                 |                 |                      |                      |      |      |      |
|                   |                         |                 |                   | 256QAM Modulation       |                 |                 |                      |                      |      |      |      |
|                   |                         |                 |                   | Mid Channel, 763 MHz    | 48.904          | 0               | 48.9                 | 51.9                 | 54.9 |      |      |
|                   |                         |                 | Port 2            | Band n14, 758 - 768 Mhz | 5 MHz Bandwidth | QPSK Modulation |                      |                      |      |      |      |
|                   |                         |                 |                   |                         |                 |                 | Mid Channel, 763 MHz | 49.035               | 0    | 49.0 | 52.0 |
| 16QAM Modulation  |                         |                 |                   |                         |                 |                 |                      |                      |      |      |      |
|                   | Mid Channel, 763 MHz    | 48.827          |                   |                         |                 | 0               | 48.8                 | 51.8                 | 54.8 |      |      |
| 64QAM Modulation  |                         |                 |                   |                         |                 |                 |                      |                      |      |      |      |
|                   | Mid Channel, 763 MHz    | 49.020          |                   |                         |                 | 0               | 49.0                 | 52.0                 | 55.0 |      |      |
| 256QAM Modulation |                         |                 |                   |                         |                 |                 |                      |                      |      |      |      |
|                   | Low Channel, 760.5 MHz  | 49.016          |                   |                         |                 | 0               | 49.0                 | 52.0                 | 55.0 |      |      |
|                   | Mid Channel, 763 MHz    | 48.996          |                   |                         |                 | 0               | 49.0                 | 52.0                 | 55.0 |      |      |
|                   | High Channel, 765.5 MHz | 48.910          |                   |                         |                 | 0               | 48.9                 | 51.9                 | 54.9 |      |      |
|                   | 10 MHz Bandwidth        |                 |                   |                         |                 |                 |                      |                      |      |      |      |
|                   | 256QAM Modulation       |                 |                   |                         |                 |                 |                      |                      |      |      |      |
|                   | Mid Channel, 763 MHz    | 48.937          |                   |                         |                 | 0               | 48.9                 | 51.9                 | 54.9 |      |      |

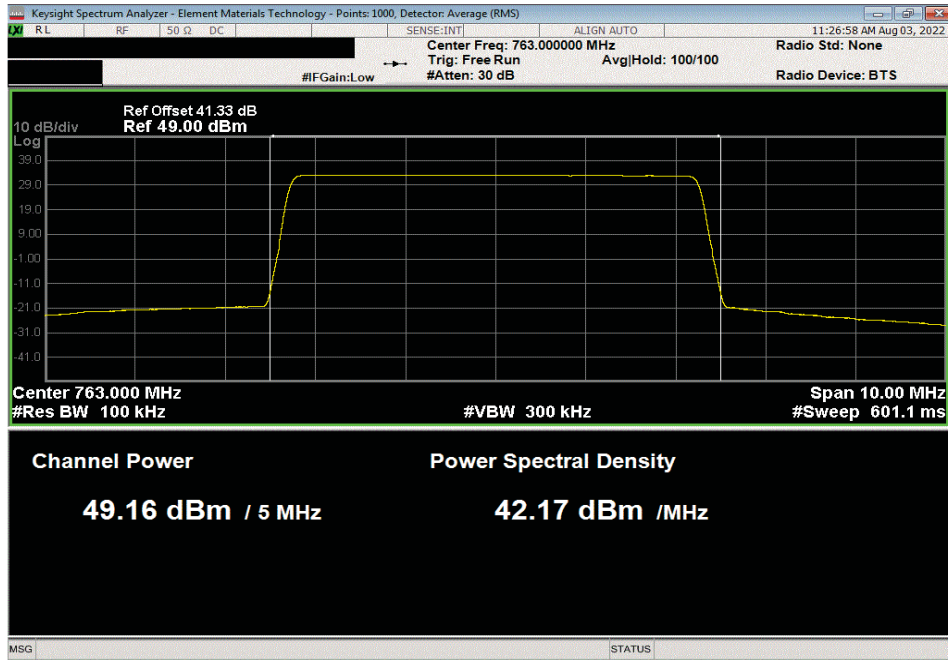


# AVERAGE POWER - BAND n14

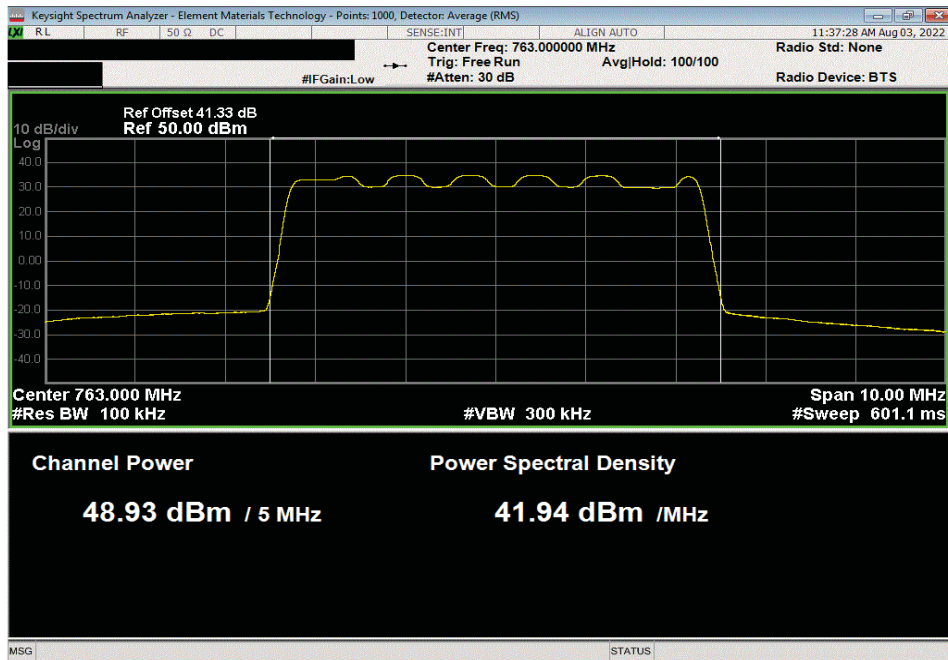


TMTx 2022.06.02.0 XMI 2022.02.07.0

| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |  |
|---|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.157  | 0           | 49.2           | 52.2                | 55.2                 |  |  |



| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 48.931   | 0           | 48.9           | 51.9                | 54.9                 |  |  |

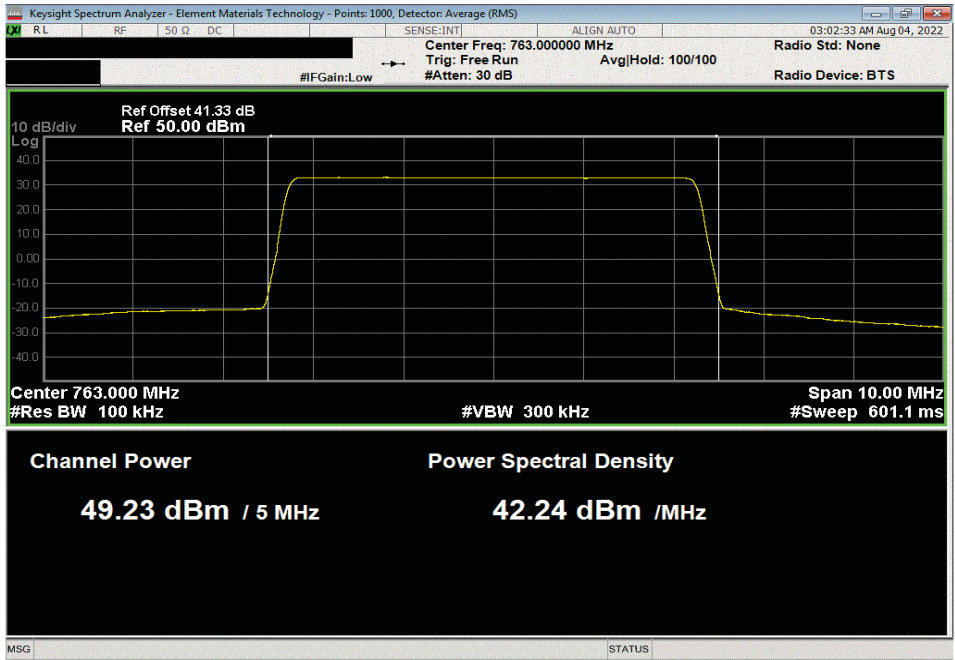


# AVERAGE POWER - BAND n14



TbT1x 2022.05.02.0 XMI 2022.02.07.0

| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |
|--|-------------|----------------|---------------------|----------------------|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |
| 49.225   | 0           | 49.2           | 52.2                | 55.2                 |  |

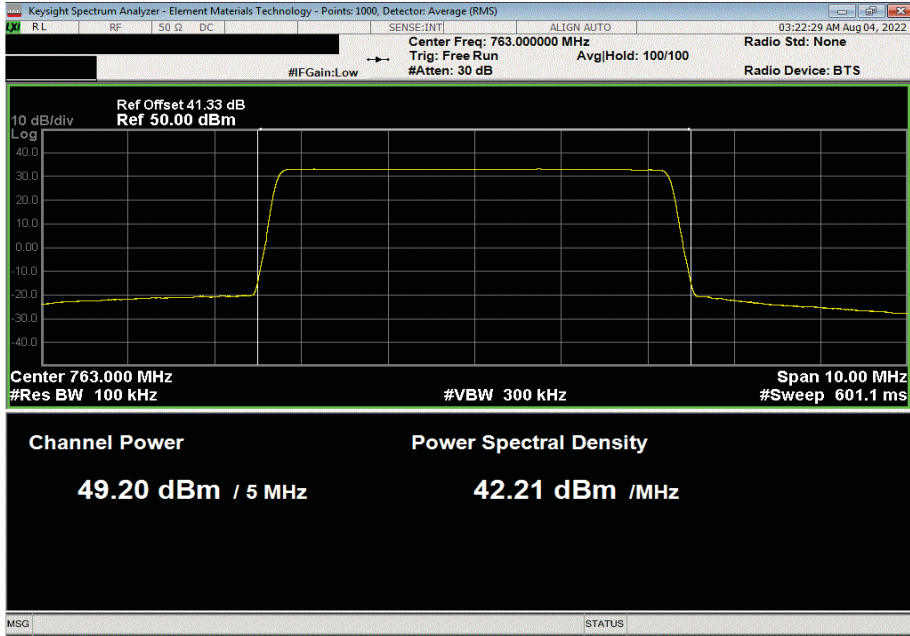


# AVERAGE POWER - BAND n14

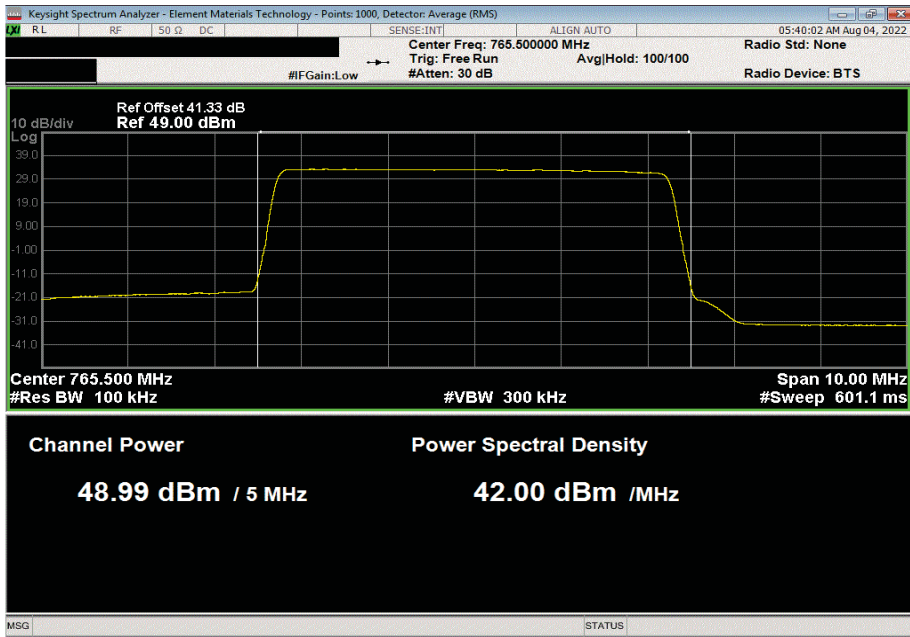


TbTx 2022.05.02.0 XMMI 2022.02.07.0

| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |  |
|---|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.2  | 0           | 49.2           | 52.2                | 55.2                 |  |  |



| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 765.5 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 48.993   | 0           | 49             | 52                  | 55                   |  |  |

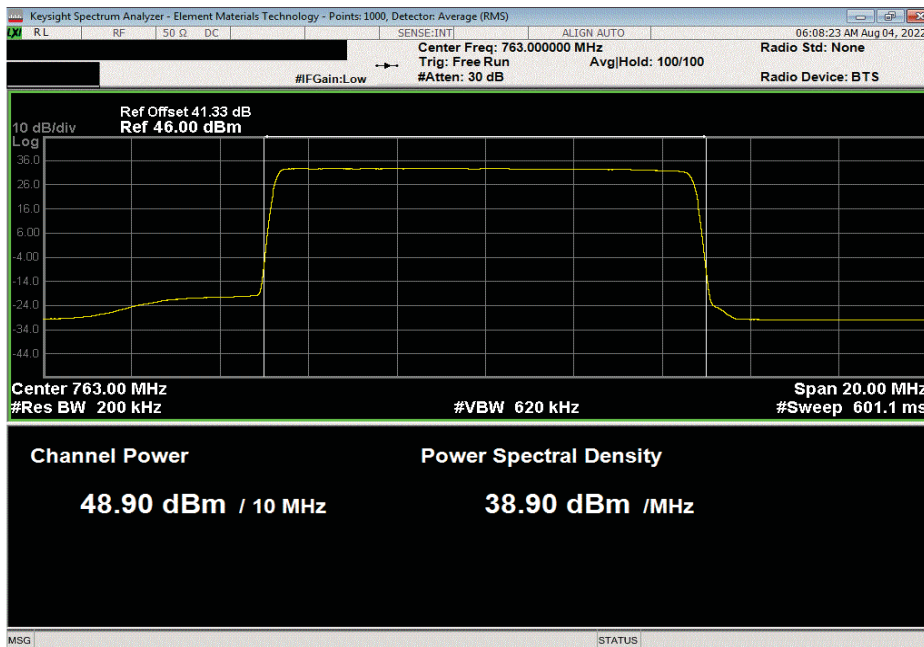


# AVERAGE POWER - BAND n14



TxtV 2022.05.02.0 XMI 2022.02.07.0

| Port 1, Band n14, 758 - 768 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 48.904   | 0           | 48.9           | 51.9                | 54.9                 |  |  |

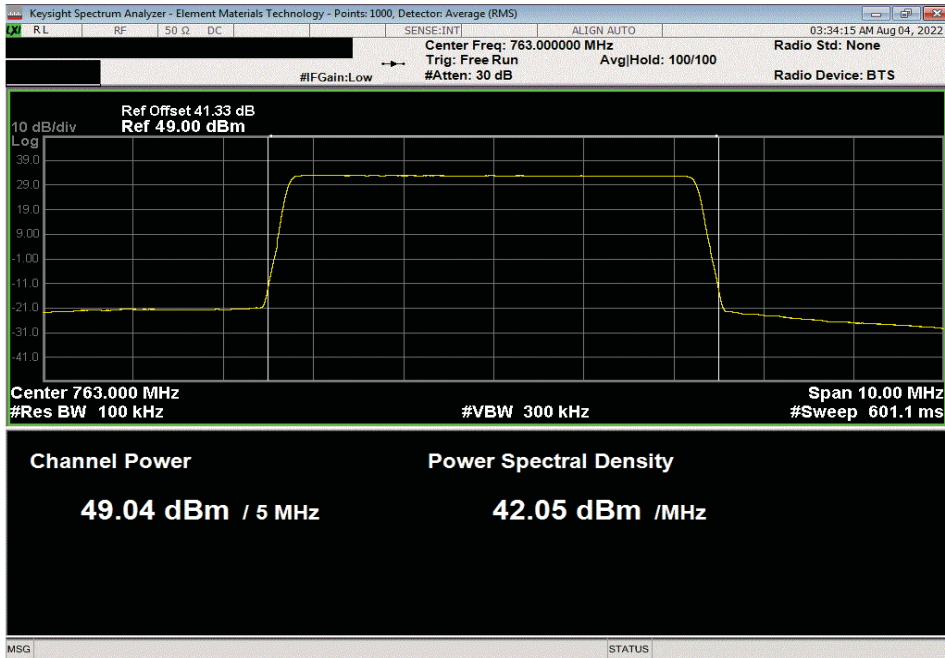


# AVERAGE POWER - BAND n14

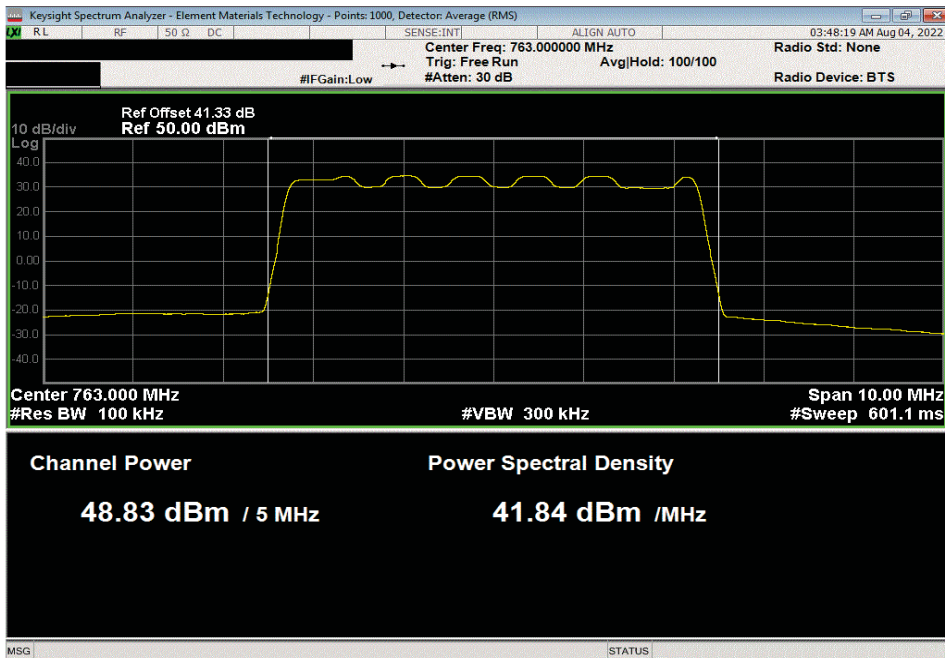


TbTx 2022.05.02.0 XMI 2022.02.07.0

| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |  |
|---|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 49.035  | 0           | 49             | 52                  | 55                   |  |  |



| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 48.827   | 0           | 48.8           | 51.8                | 54.8                 |  |  |

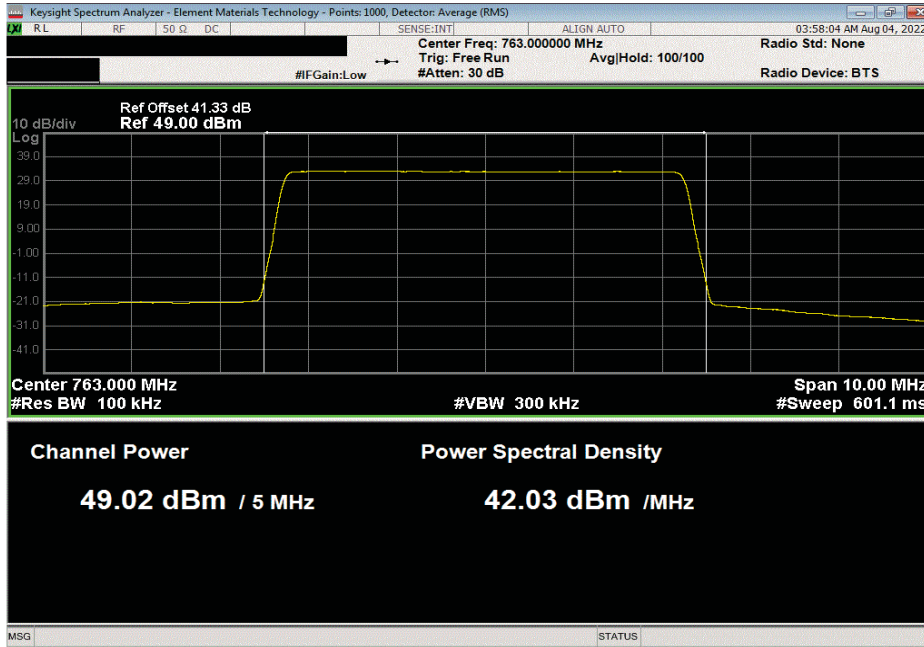


# AVERAGE POWER - BAND n14

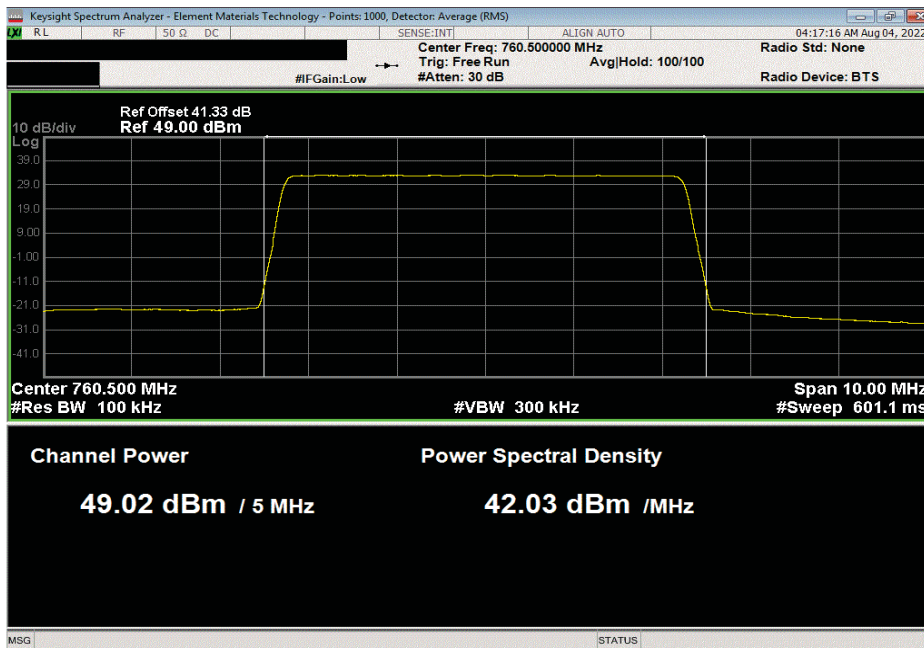


TMTv 2022.05.02.0 XMM 2022.02.07.0

| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |
|--|-------------|----------------|---------------------|----------------------|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |
| 49.02  | 0           | 49             | 52                  | 55                   |  |



| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 760.5 MHz |             |                |                     |                      |  |
|---|-------------|----------------|---------------------|----------------------|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |
| 49.016  | 0           | 49             | 52                  | 55                   |  |

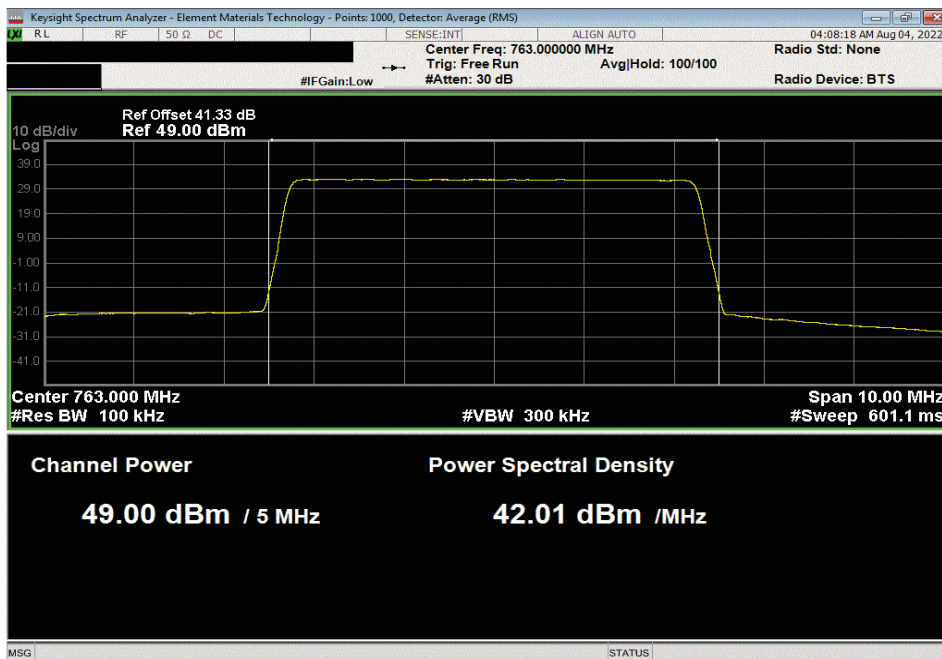


# AVERAGE POWER - BAND n14

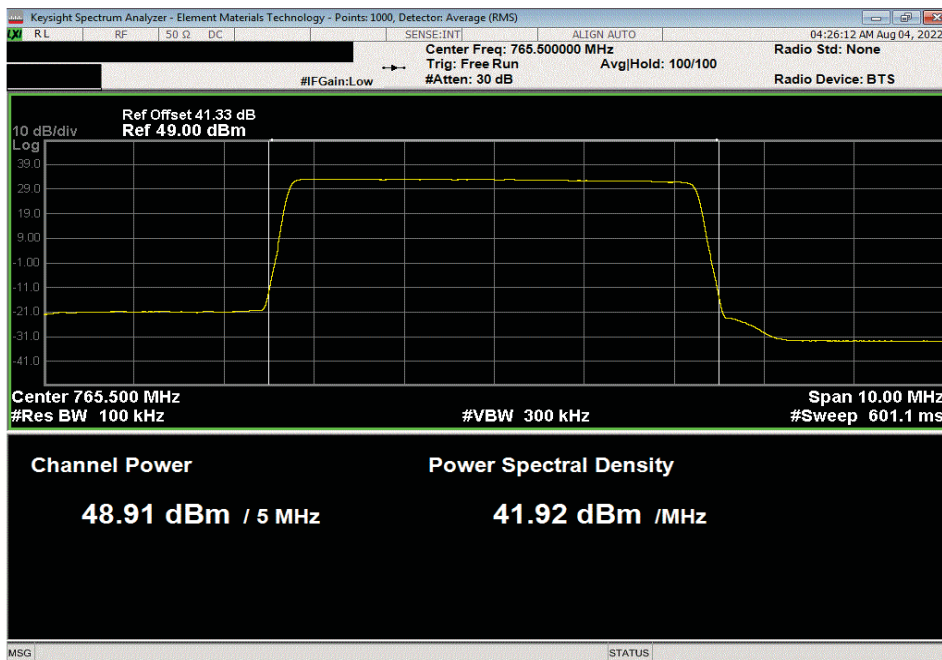


TXTX 2022.05.02.0 XMI 2022.02.07.0

| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |  |
|---|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value   | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz   | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 48.996  | 0           | 49             | 52                  | 55                   |  |  |



| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 765.5 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 48.91  | 0           | 48.9           | 51.9                | 54.9                 |  |  |

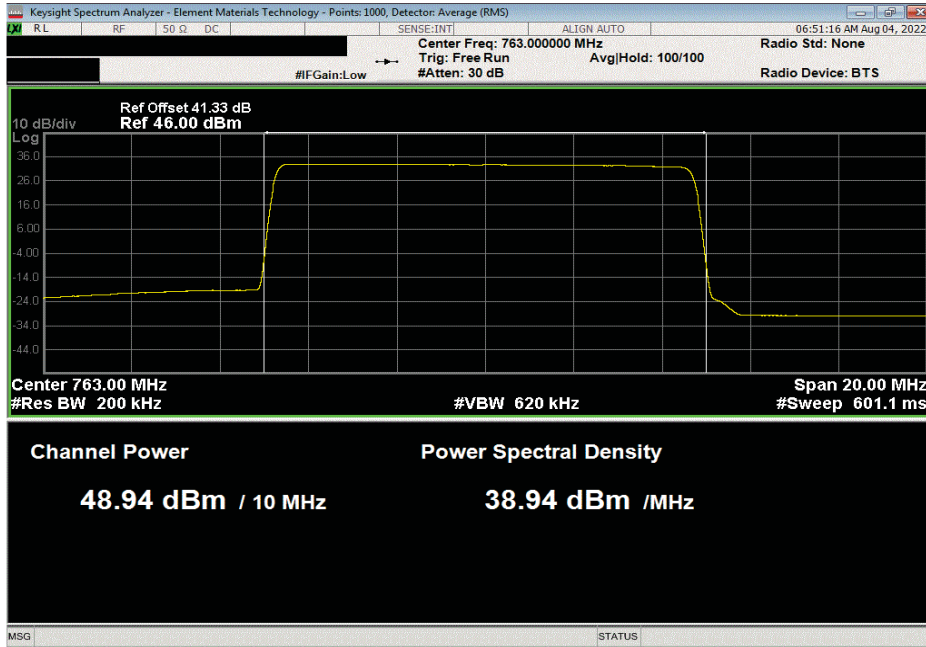


# AVERAGE POWER - BAND n14



TbTx 2022.05.02.0 XMI 2022.02.07.0

| Port 2, Band n14, 758 - 768 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz |             |                |                     |                      |  |  |
|--|-------------|----------------|---------------------|----------------------|--|--|
| Initial Value  | Duty Cycle  | Single Port    | Two Port (2x2 MIMO) | Four Port (4x4 MIMO) |  |  |
| dBm/MHz  | Factor (dB) | dBm/Carrier BW | dBm/Carrier BW      | dBm/Carrier BW       |  |  |
| 48.937   | 0           | 48.9           | 51.9                | 54.9                 |  |  |





# AVERAGE POWER - MULTIBAND MULTICARRIER



XMH 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model  | ID  | Last Cal.  | Cal. Due   |
|------------------------------|--------------------|--------|-----|------------|------------|
| Block - DC                   | Fairview Microwave | SD3239 | ANE | 2022-03-02 | 2023-03-02 |
| Generator - Signal           | Agilent            | N5173B | TIW | 2020-07-17 | 2023-07-17 |
| Analyzer - Spectrum Analyzer | Keysight           | N9010A | AFQ | 2022-01-17 | 2023-01-17 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

The method in section 5.2.4.4 of ANSI C63.26 was used to make the measurement. This method uses trace averaging across ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding  $[10 \log (1 / D)]$ , where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

AHLBBA antenna ports 1&4 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

### Multi-carrier Test Cases:

Test Case 1 (3GPP Band n12 Multicarrier): Three NR 5MHz carriers using two carriers (with minimum spacing between carrier frequencies) at the lower band (731.5MHz & 736.5MHz) and a third carrier with maximum spacing between the other two carrier frequencies (742.5MHz) at the upper band edge. The NR 5Mhz channel bandwidth was selected to maximize carrier power spectral density. The carriers are operated at maximum power for a total port power of 80 watts (~26.6W/Band n12 carriers).

Test Case 2 (3GPP Band n12 and Band n14 Multicarrier/Multiband): In the Band n12 \_ Two NR 5MHz carriers at the lower band edge (731.5 & 736.5MHz). In Band n14\_ one NR 5MHz carrier at the upper band edge 765.5MHz. The carriers are operated at maximum power for a total port power of 80 watts (~26.6W/Band n12/n14 carriers).

# AVERAGE POWER - MULTIBAND MULTICARRIER



Tel: 2022 05 02 0 XMI 2022 02 07 0

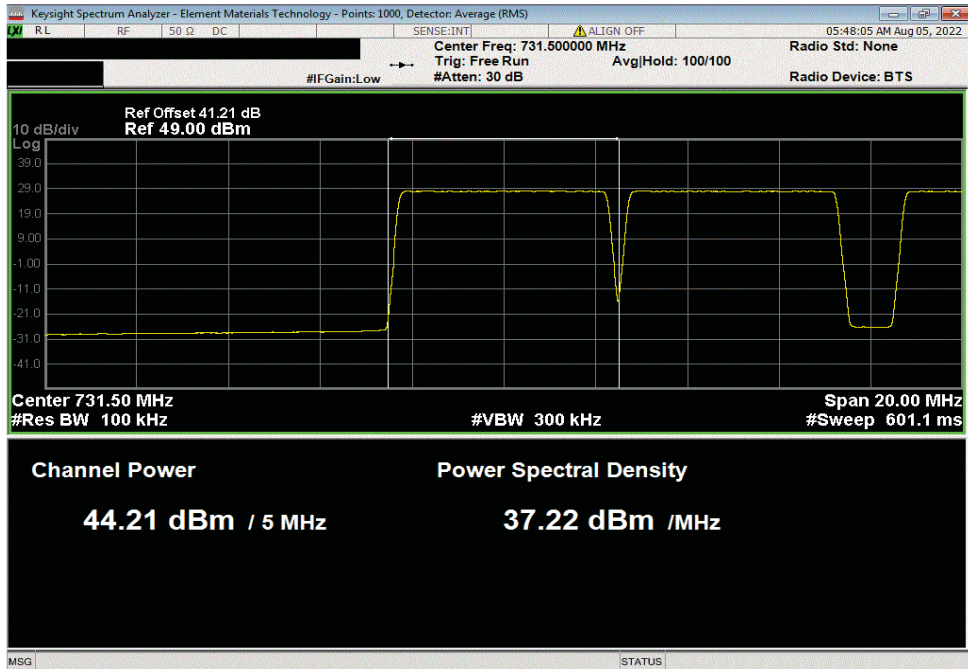
|   |   |                               |                        |                            |                         |                         |                  |         |
|---|---|-------------------------------|------------------------|----------------------------|-------------------------|-------------------------|------------------|---------|
| EUT: AHLBBA (C2PC/C3PC FCC/ISED)  |   | Work Order: NOKI0047          |                        |                            |                         |                         |                  |         |
| Serial Number: K9193514835  |   | Date: 5-Aug-22                |                        |                            |                         |                         |                  |         |
| Customer: Nokia Solutions and Networks  |   | Temperature: 20.3 °C          |                        |                            |                         |                         |                  |         |
| Attendees: Mitchell Hill  |   | Humidity: 61.4% RH            |                        |                            |                         |                         |                  |         |
| Project: None   |   | Barometric Pres.: 1021 mbar   |                        |                            |                         |                         |                  |         |
| Tested by: Marty Martin   |   | Power: 54VDC                  |                        |                            |                         |                         |                  |         |
| Job Site: TX07  |   |                               |                        |                            |                         |                         |                  |         |
| TEST SPECIFICATIONS   |   | Test Method                   |                        |                            |                         |                         |                  |         |
| FCC 27:2022   |   | ANSI C63.26:2015              |                        |                            |                         |                         |                  |         |
| FCC 90R:2022  |   | ANSI C63.26:2015              |                        |                            |                         |                         |                  |         |
| RSS-130 Issue 2:2019 and RSS 140 Issue 1: 2018  |   | ANSI C63.26:2015              |                        |                            |                         |                         |                  |         |
| COMMENTS  |   |                               |                        |                            |                         |                         |                  |         |
| All measurement path losses were accounted for in the reference level offset including attenuators, cables, DC block and filter when in use. Band n12 and Band n14 carriers were operating at maximum power in each applicable test case to achieve a total port power of 80 watts. |   |                               |                        |                            |                         |                         |                  |         |
| DEVIATIONS FROM TEST STANDARD   |   |                               |                        |                            |                         |                         |                  |         |
| None  |   |                               |                        |                            |                         |                         |                  |         |
| Configuration #   | 2 | Signature <i>Marty Martin</i> |                        |                            |                         |                         |                  |         |
|   |   | Avg Cond Initial Pwr (dBm)    | Duty Cycle Factor (dB) | Avg Cond Carrier Pwr (dBm) | Avg Cond Band Pwr (dBm) | Avg Cond Port Pwr (dBm) | Limit (dBm)      | Results |
| Port 1, 5G NR, Multi-Carrier Test Case 1  |   |                               |                        |                            |                         |                         |                  |         |
| Band n12, 729 - 745 Mhz   |   |                               |                        |                            |                         |                         |                  |         |
| 5 MHz Bandwidth   |   |                               |                        |                            |                         |                         |                  |         |
| QPSK Modulation   |   |                               |                        |                            |                         |                         |                  |         |
| Low Channel, 731.5 MHz  |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 44.206                        | 0                      | 44.2                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| Low Channel, 736.5 MHz  |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 44.201                        | 0                      | 44.2                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| High Channel, 742.5 MHz   |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 44.116                        | 0                      | 44.1                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| Port 2, 5G NR, Multi-Carrier Test Case 1  |   |                               |                        |                            |                         |                         |                  |         |
| Band n12, 729 - 745 Mhz   |   |                               |                        |                            |                         |                         |                  |         |
| 5 MHz Bandwidth   |   |                               |                        |                            |                         |                         |                  |         |
| QPSK Modulation   |   |                               |                        |                            |                         |                         |                  |         |
| Low Channel, 731.5 MHz  |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 43.899                        | 0                      | 43.9                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| Low Channel, 736.5 MHz  |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 44.092                        | 0                      | 44.1                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| High Channel, 742.5 MHz   |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 44.144                        | 0                      | 44.1                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| Port 1, 5G NR, Multi-Carrier Test Case 2  |   |                               |                        |                            |                         |                         |                  |         |
| Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz   |   |                               |                        |                            |                         |                         |                  |         |
| 5 MHz Bandwidth   |   |                               |                        |                            |                         |                         |                  |         |
| QPSK Modulation   |   |                               |                        |                            |                         |                         |                  |         |
| Low Channel, 731.5 MHz  |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 44.478                        | 0                      | 44.5                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| Low Channel, 736.5 MHz  |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 44.431                        | 0                      | 44.4                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| High Channel, 765.5 MHz   |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 43.737                        | 0                      | 43.7                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| Port 2, 5G NR, Multi-Carrier Test Case 2  |   |                               |                        |                            |                         |                         |                  |         |
| Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz   |   |                               |                        |                            |                         |                         |                  |         |
| 5 MHz Bandwidth   |   |                               |                        |                            |                         |                         |                  |         |
| QPSK Modulation   |   |                               |                        |                            |                         |                         |                  |         |
| Low Channel, 731.5 MHz  |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 43.708                        | 0                      | 43.7                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| Low Channel, 736.5 MHz  |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 43.903                        | 0                      | 43.9                       | N/A                     | N/A                     | Within Tolerance | Pass    |
| High Channel, 765.5 MHz   |   |                               |                        |                            |                         |                         |                  |         |
|   |   | 43.517                        | 0                      | 43.5                       | N/A                     | N/A                     | Within Tolerance | Pass    |

# AVERAGE POWER - MULTIBAND MULTICARRIER

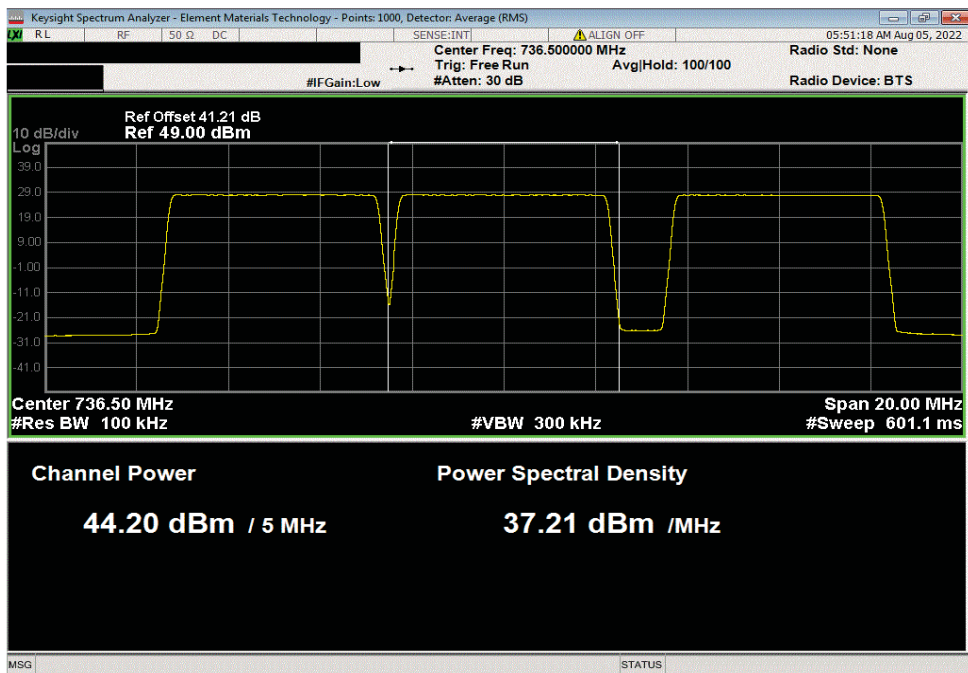


TMTx 2022.05.02.0 XMM 2022.02.07.0

| Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz |             |                   |                |                |                  |         |  |
|---|-------------|-------------------|----------------|----------------|------------------|---------|--|
| Avg Cond  | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |  |
| Initial Pwr (dBm)   | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |  |
| 44.206  | 0           | 44.21             | N/A            | N/A            | Within Tolerance | Pass    |  |



| Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 736.5 MHz |             |                   |                |                |                  |         |  |
|---|-------------|-------------------|----------------|----------------|------------------|---------|--|
| Avg Cond  | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |  |
| Initial Pwr (dBm)   | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |  |
| 44.201  | 0           | 44.2              | N/A            | N/A            | Within Tolerance | Pass    |  |

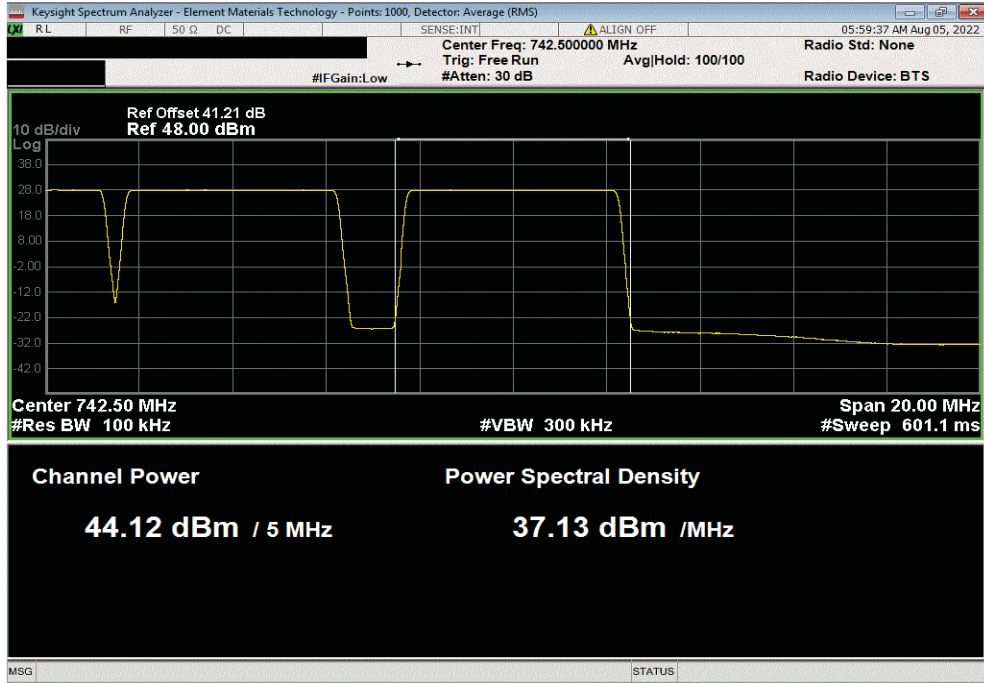


# AVERAGE POWER - MULTIBAND MULTICARRIER



TMTx 2022.05.02.0 XMI 2022.02.07.0

| Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 742.5 MHz |             |                   |                |                |                  |         |
|--|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond   | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)  | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 44.116   | 0           | 44.12             | N/A            | N/A            | Within Tolerance | Pass    |

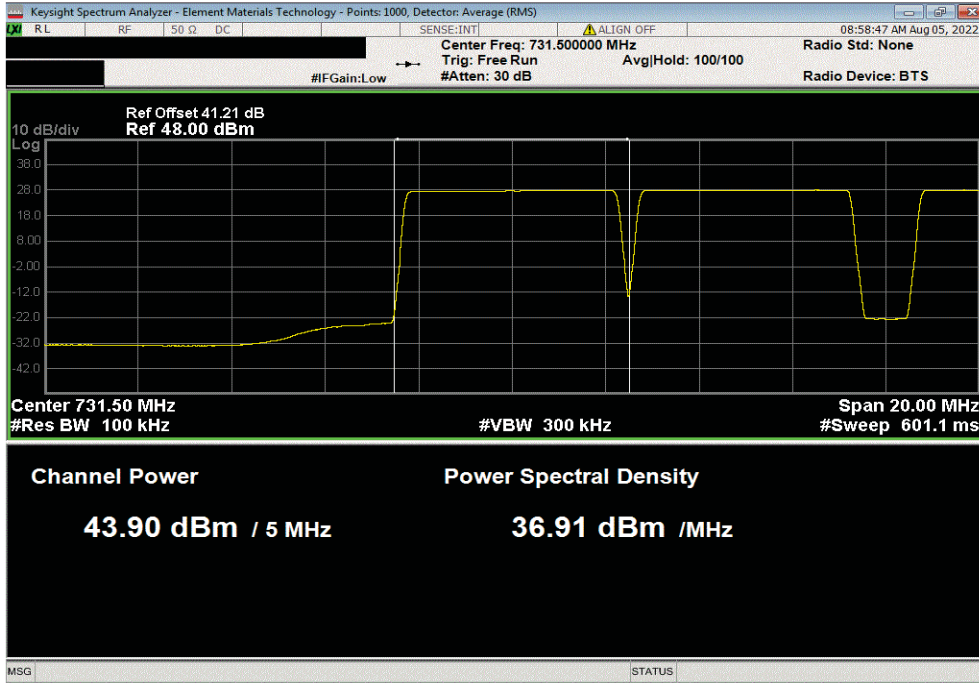


# AVERAGE POWER - MULTIBAND MULTICARRIER

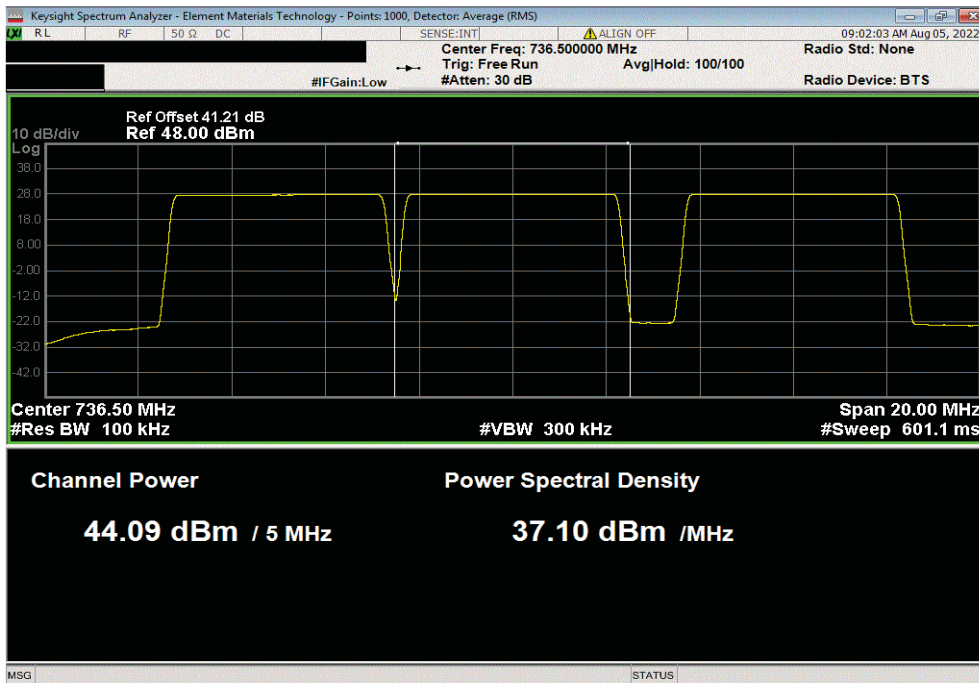


TbTx 2022.05.02.0 XMM 2022.02.07.0

| Port 2, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz |             |                   |                |                |                  |         |
|---|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond  | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)   | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 43.899  | 0           | 43.9              | N/A            | N/A            | Within Tolerance | Pass    |



| Port 2, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 736.5 MHz |             |                   |                |                |                  |         |
|---|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond  | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)   | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 44.092  | 0           | 44.09             | N/A            | N/A            | Within Tolerance | Pass    |

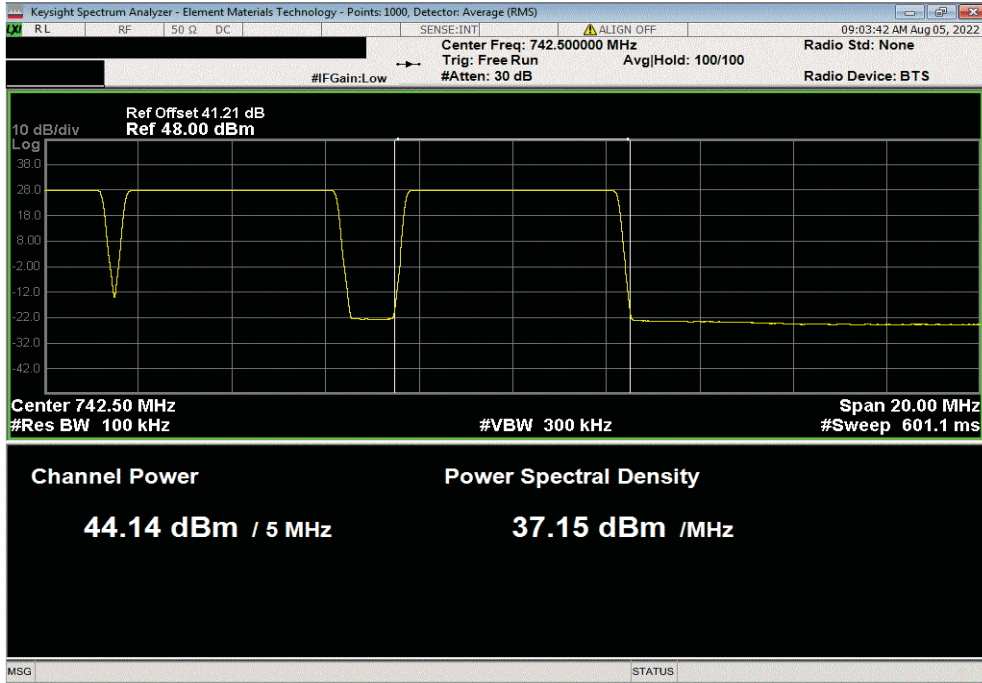


# AVERAGE POWER - MULTIBAND MULTICARRIER



TMTX 2022.05.02.0 XMM 2022.02.07.0

| Port 2, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 742.5 MHz |             |                   |                |                |                  |         |
|---|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond  | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)   | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 44.144  | 0           | 44.14             | N/A            | N/A            | Within Tolerance | Pass    |

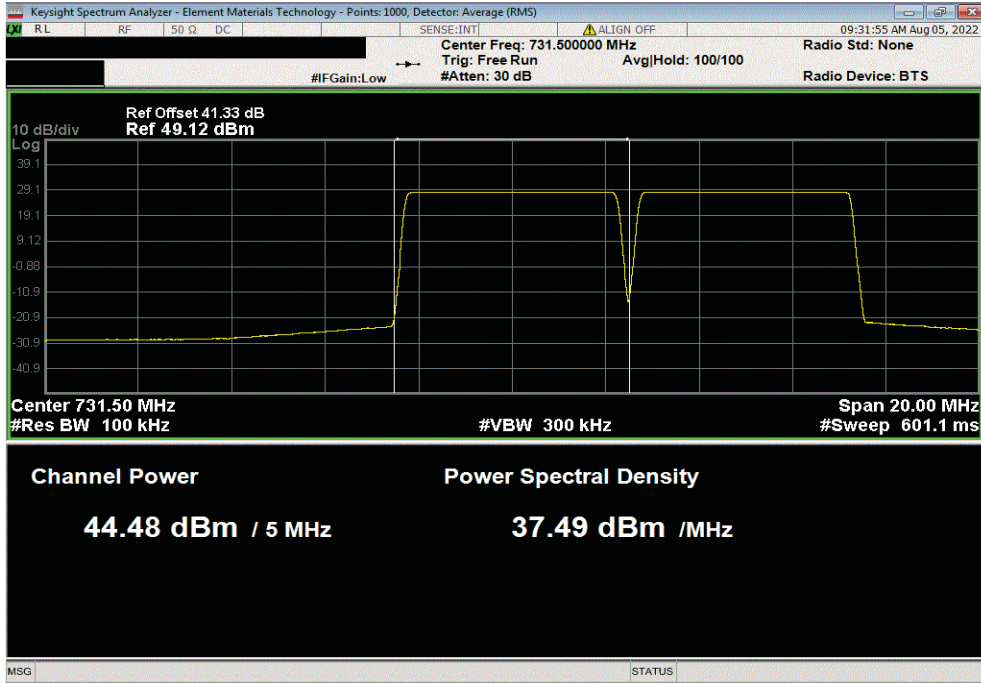


# AVERAGE POWER - MULTIBAND MULTICARRIER

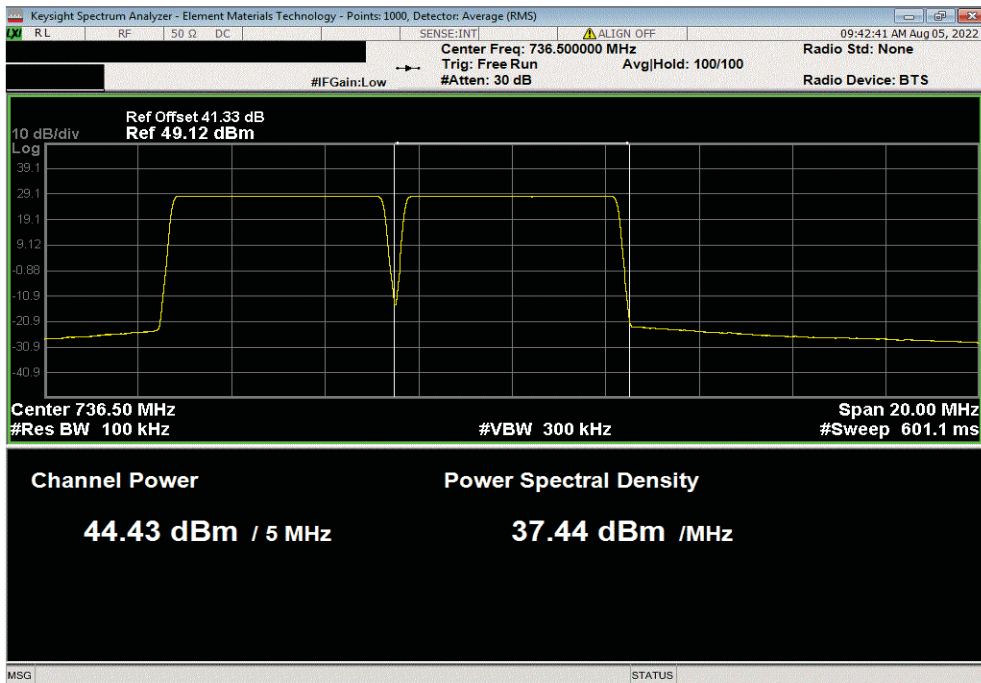


TbTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz |             |                   |                |                |                  |         |
|---|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond  | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)   | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 44.478  | 0           | 44.48             | N/A            | N/A            | Within Tolerance | Pass    |



| Port 1, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 736.5 MHz |             |                   |                |                |                  |         |
|---|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond  | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)   | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 44.431  | 0           | 44.43             | N/A            | N/A            | Within Tolerance | Pass    |

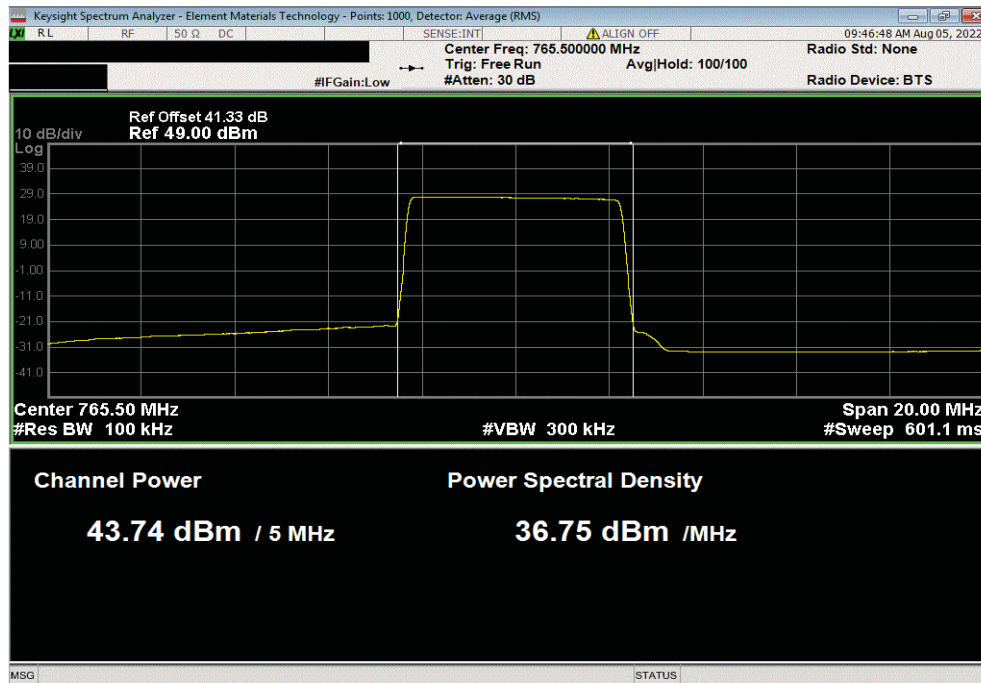


# AVERAGE POWER - MULTIBAND MULTICARRIER



TbTx 2022.05.02.0 XMM 2022.02.07.0

| Port 1, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 765.5 MHz |             |                   |                |                |                  |         |
|--|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond   | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)  | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 43.737   | 0           | 43.74             | N/A            | N/A            | Within Tolerance | Pass    |



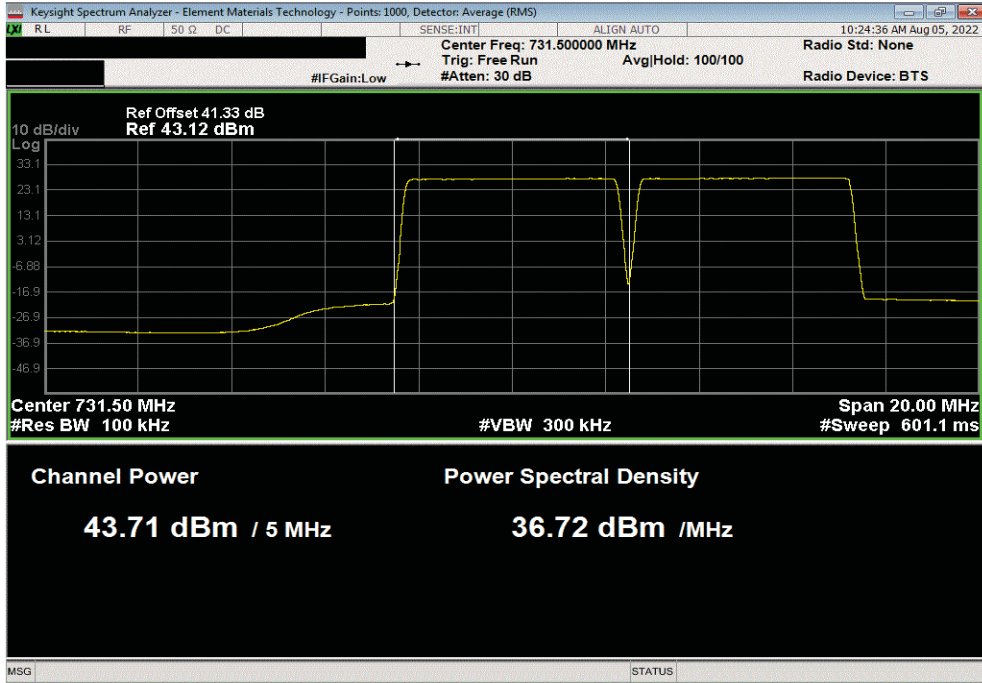


# AVERAGE POWER - MULTIBAND MULTICARRIER

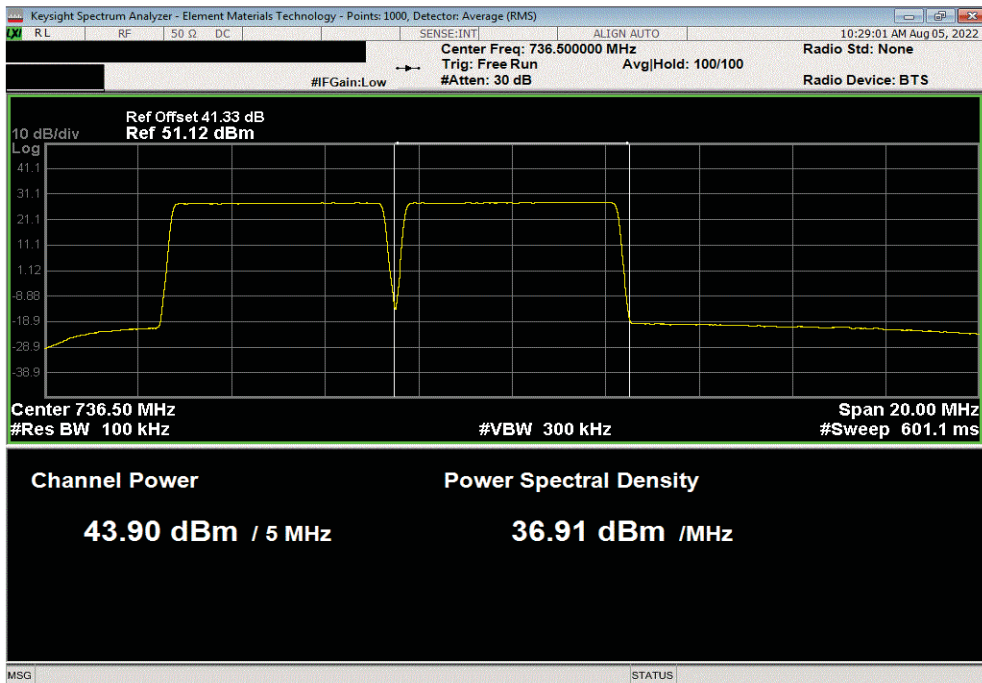


TMTX 2022.05.02.0 XMH 2022.02.07.0

| Port 2, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz |             |                   |                |                |                  |         |
|---|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond  | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)   | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 43.708  | 0           | 43.71             | N/A            | N/A            | Within Tolerance | Pass    |



| Port 2, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 736.5 MHz |             |                   |                |                |                  |         |
|---|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond  | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)   | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 43.903  | 0           | 43.9              | N/A            | N/A            | Within Tolerance | Pass    |

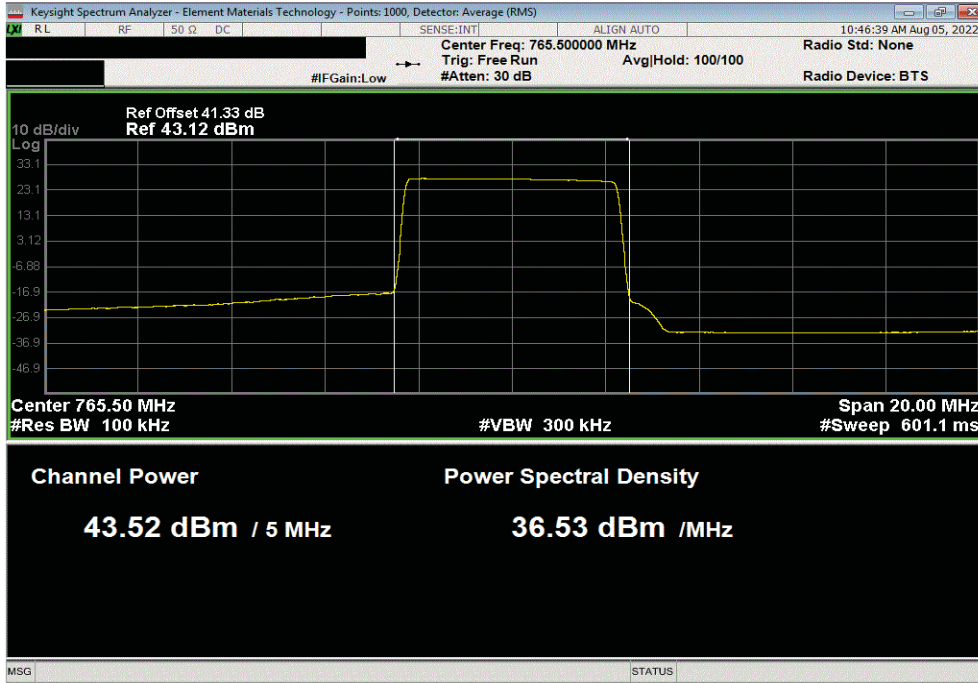


# AVERAGE POWER - MULTIBAND MULTICARRIER



TbTx 2022.05.02.0 XMt 2022.02.07.0

| Port 2, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 765.5 MHz |             |                   |                |                |                  |         |
|--|-------------|-------------------|----------------|----------------|------------------|---------|
| Avg Cond   | Duty Cycle  | Avg Cond          | Avg Cond       | Avg Cond       | Limit            | Results |
| Initial Pwr (dBm)  | Factor (dB) | Carrier Pwr (dBm) | Band Pwr (dBm) | Port Pwr (dBm) | (dBm)            |         |
| 43.517   | 0           | 43.52             | N/A            | N/A            | Within Tolerance | Pass    |



# AVERAGE POWER - MULTIBAND MULTICARRIER



Tel# 2022.05.02.0 XMR 2022.02.07.0

| Port 1, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation |                        |                            |                         |                         |                  |         |  |
|---|------------------------|----------------------------|-------------------------|-------------------------|------------------|---------|--|
| Avg Cond Initial Pwr (dBm)  | Duty Cycle Factor (dB) | Avg Cond Carrier Pwr (dBm) | Avg Cond Band Pwr (dBm) | Avg Cond Port Pwr (dBm) | Limit (dBm)      | Results |  |
| N/A   | 0                      | N/A                        | View Table              | View Table              | Within Tolerance | Pass    |  |

| Carrier Band   | Carrier Frequencies | Carrier Power (dBm) | Carrier Power (Watts) | Band Total Pwr (Watts) | Band Total Pwr (dBm) | Port Total Pwr (Watts) | Port Total Pwr (dBm) |
|----------------|---------------------|---------------------|-----------------------|------------------------|----------------------|------------------------|----------------------|
| 5G NR Band n12 | 731.5 MHz           | 44.21               | 26.4                  | N/A                    | N/A                  | N/A                    | N/A                  |
| 5G NR Band n12 | 736.5 MHz           | 44.2                | 26.3                  | N/A                    | N/A                  | N/A                    | N/A                  |
| 5G NR Band n12 | 742.5 MHz           | 44.12               | 25.82                 | N/A                    | N/A                  | N/A                    | N/A                  |
|                | N/A                 | N/A                 | N/A                   | 78.5                   | 48.95                | 78.5                   | 48.95                |

| Port 2, 5G NR, Multi-Carrier Test Case 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation |                        |                            |                         |                         |                  |         |  |
|---|------------------------|----------------------------|-------------------------|-------------------------|------------------|---------|--|
| Avg Cond Initial Pwr (dBm)  | Duty Cycle Factor (dB) | Avg Cond Carrier Pwr (dBm) | Avg Cond Band Pwr (dBm) | Avg Cond Port Pwr (dBm) | Limit (dBm)      | Results |  |
| N/A   | 0                      | N/A                        | View Table              | View Table              | Within Tolerance | Pass    |  |

| Carrier Band   | Carrier Frequencies | Carrier Power (dBm) | Carrier Power (Watts) | Band Total Pwr (Watts) | Band Total Pwr (dBm) | Port Total Pwr (Watts) | Port Total Pwr (dBm) |
|----------------|---------------------|---------------------|-----------------------|------------------------|----------------------|------------------------|----------------------|
| 5G NR Band n12 | 731.5 MHz           | 43.9                | 24.5                  | N/A                    | N/A                  | N/A                    | N/A                  |
| 5G NR Band n12 | 736.5 MHz           | 44.1                | 25.7                  | N/A                    | N/A                  | N/A                    | N/A                  |
| 5G NR Band n12 | 742.5 MHz           | 44.12               | 25.82                 | N/A                    | N/A                  | N/A                    | N/A                  |
|                | N/A                 | N/A                 | N/A                   | 76.1                   | 48.82                | 76.1                   | 48.82                |

| Port 1, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation |                        |                            |                         |                         |                  |         |  |
|---|------------------------|----------------------------|-------------------------|-------------------------|------------------|---------|--|
| Avg Cond Initial Pwr (dBm)  | Duty Cycle Factor (dB) | Avg Cond Carrier Pwr (dBm) | Avg Cond Band Pwr (dBm) | Avg Cond Port Pwr (dBm) | Limit (dBm)      | Results |  |
| N/A   | 0                      | N/A                        | View Table              | View Table              | Within Tolerance | Pass    |  |

| Carrier Band                | Carrier Frequencies | Carrier Power (dBm) | Carrier Power (Watts) | Band Total Pwr (Watts) | Band Total Pwr (dBm) | Port Total Pwr (Watts) | Port Total Pwr (dBm) |
|-----------------------------|---------------------|---------------------|-----------------------|------------------------|----------------------|------------------------|----------------------|
| 5G NR Band n12 and Band n14 | 731.5 MHz           | 44.48               | 26.1                  | N/A                    | N/A                  | N/A                    | N/A                  |
| 5G NR Band n12 and Band n14 | 736.5 MHz           | 44.43               | 27.7                  | N/A                    | N/A                  | N/A                    | N/A                  |
| 5G NR Band n12 and Band n14 | 765.5 MHz           | 43.74               | 23.66                 | N/A                    | N/A                  | N/A                    | N/A                  |
|                             | N/A                 | N/A                 | N/A                   | 79.4                   | 49                   | 79.4                   | 49                   |

| Port 2, 5G NR, Multi-Carrier Test Case 2, Band n12, 729 - 745 Mhz, Band n14 758 - 768 MHz, 5 MHz Bandwidth, QPSK Modulation |                        |                            |                         |                         |                  |         |  |
|---|------------------------|----------------------------|-------------------------|-------------------------|------------------|---------|--|
| Avg Cond Initial Pwr (dBm)  | Duty Cycle Factor (dB) | Avg Cond Carrier Pwr (dBm) | Avg Cond Band Pwr (dBm) | Avg Cond Port Pwr (dBm) | Limit (dBm)      | Results |  |
| N/A   | 0                      | N/A                        | View Table              | View Table              | Within Tolerance | Pass    |  |

| Carrier Band                | Carrier Frequencies | Carrier Power (dBm) | Carrier Power (Watts) | Band Total Pwr (Watts) | Band Total Pwr (dBm) | Port Total Pwr (Watts) | Port Total Pwr (dBm) |
|-----------------------------|---------------------|---------------------|-----------------------|------------------------|----------------------|------------------------|----------------------|
| 5G NR Band n12 and Band n14 | 731.5 MHz           | 43.71               | 23.5                  | N/A                    | N/A                  | N/A                    | N/A                  |
| 5G NR Band n12 and Band n14 | 736.5 MHz           | 43.9                | 24.6                  | N/A                    | N/A                  | N/A                    | N/A                  |
| 5G NR Band n12 and Band n14 | 765.5 MHz           | 43.52               | 22.49                 | N/A                    | N/A                  | N/A                    | N/A                  |
|                             | N/A                 | N/A                 | N/A                   | 70.5                   | 46.9                 | 70.5                   | 46.9                 |

# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12



XMH 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model  | ID  | Last Cal.  | Cal. Due   |
|------------------------------|--------------------|--------|-----|------------|------------|
| Block - DC                   | Fairview Microwave | SD3239 | ANE | 2022-03-02 | 2023-03-02 |
| Generator - Signal           | Agilent            | N5173B | TIW | 2020-07-17 | 2023-07-17 |
| Analyzer - Spectrum Analyzer | Keysight           | N9010A | AFQ | 2022-01-17 | 2023-01-17 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed 13 dB.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.

The PAPR was measured using the CCDF function of the spectrum analyzer.

AHLBBA antenna ports 1&4 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12



TelTx 2022.05.02.0 XMI: 2022.02.07.0

|  |              |   |
|--|--------------|---|
| EUT: AHLBBA (C2PC/C3PC FCC/ISED)   |              | Work Order: NOKI0047                              |
| Serial Number: K9193514835   |              | Date: 30-Jul-22                                   |
| Customer: Nokia Solutions and Networks   |              | Temperature: 20.6 °C                              |
| Attendees: Mitchell Hill   |              | Humidity: 59.4% RH                                |
| Project: None  |              | Barometric Pres.: 1021 mbar                       |
| Tested by: Marty Martin  | Power: 54VDC | Job Site: TX07                                    |
| TEST SPECIFICATIONS  |              |   |
| FCC 27:2022  |              | Test Method                                       |
| RSS-130 Issue 2: 2019  |              | ANSI C63.26:2015                                  |
|  |              | ANSI C63.26:2015                                  |
| COMMENTS   |              |   |
| All measurement path losses were accounted for in the reference level offset including attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power. |              |   |
| DEVIATIONS FROM TEST STANDARD  |              |   |
| None   |              |   |
| Configuration #  | 2            | Signature <i>Marty Martin</i>                     |
|  |              | PAPR Value (dB)      PAPR Limit (dB)      Results |

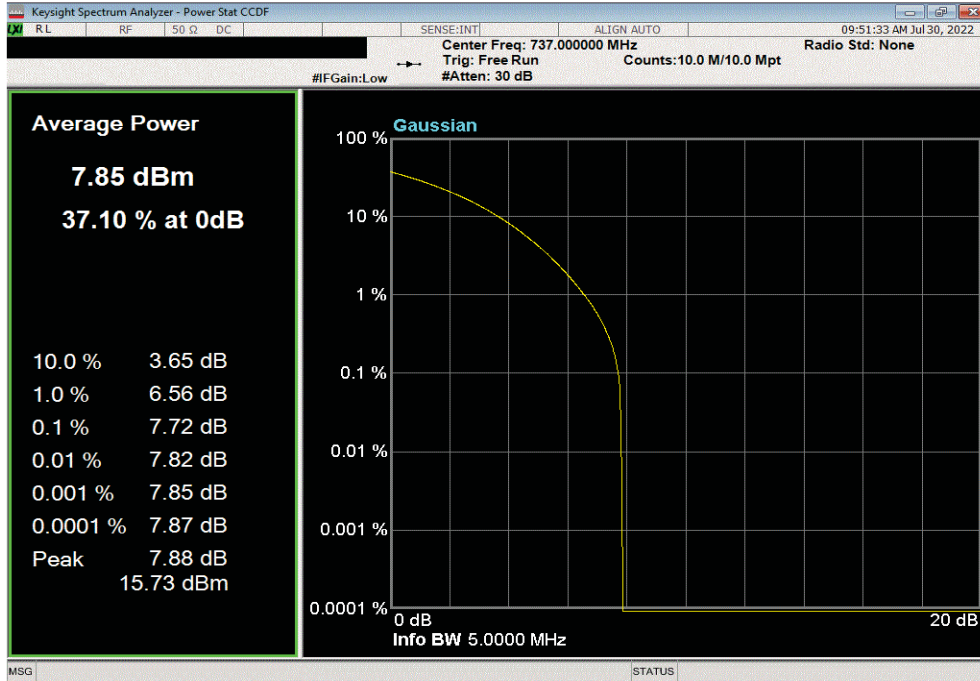
| Port   | Bandwidth               | Modulation      | Channel           | PAPR Value (dB)         | PAPR Limit (dB) | Results |      |
|--------|-------------------------|-----------------|-------------------|-------------------------|-----------------|---------|------|
| Port 1 | Band n12, 729 - 745 Mhz | 5 MHz Bandwidth | QPSK Modulation   |                         |                 |         |      |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 7.72            | 13      | Pass |
|        |                         |                 | 16QAM Modulation  |                         |                 |         |      |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 7.82            | 13      | Pass |
|        |                         |                 | 64QAM Modulation  |                         |                 |         |      |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 7.69            | 13      | Pass |
|        |                         |                 | 256QAM Modulation |                         |                 |         |      |
|        |                         |                 |                   | Low Channel, 731.5 MHz  | 7.70            | 13      | Pass |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 7.70            | 13      | Pass |
|        |                         |                 |                   | High Channel, 742.5 MHz | 7.69            | 13      | Pass |
|        |                         |                 | 10 MHz Bandwidth  |                         |                 |         |      |
|        |                         |                 |                   | 256QAM Modulation       |                 |         |      |
|        |                         |                 |                   | Low Channel, 734 MHz    | 7.72            | 13      | Pass |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 7.77            | 13      | Pass |
|        |                         |                 |                   | High Channel, 740 MHz   | 7.77            | 13      | Pass |
|        |                         |                 | 15 MHz Bandwidth  |                         |                 |         |      |
|        |                         |                 |                   | 256QAM Modulation       |                 |         |      |
|        |                         |                 |                   | Low Channel, 736.5 MHz  | 7.69            | 13      | Pass |
|        | Mid Channel, 737.0 MHz  | 7.73            | 13                | Pass                    |                 |         |      |
|        | High Channel, 737.5 MHz | 7.69            | 13                | Pass                    |                 |         |      |
| Port 2 | Band n12, 729 - 745 Mhz | 5 MHz Bandwidth | QPSK Modulation   |                         |                 |         |      |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 6.71            | 13      | Pass |
|        |                         |                 | 16QAM Modulation  |                         |                 |         |      |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 6.88            | 13      | Pass |
|        |                         |                 | 64QAM Modulation  |                         |                 |         |      |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 6.69            | 13      | Pass |
|        |                         |                 | 256QAM Modulation |                         |                 |         |      |
|        |                         |                 |                   | Low Channel, 731.5 MHz  | 6.76            | 13      | Pass |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 6.69            | 13      | Pass |
|        |                         |                 |                   | High Channel, 742.5 MHz | 6.71            | 13      | Pass |
|        |                         |                 | 10 MHz Bandwidth  |                         |                 |         |      |
|        |                         |                 |                   | 256QAM Modulation       |                 |         |      |
|        |                         |                 |                   | Low Channel, 734 MHz    | 6.98            | 13      | Pass |
|        |                         |                 |                   | Mid Channel, 737.0 MHz  | 6.82            | 13      | Pass |
|        |                         |                 |                   | High Channel, 740 MHz   | 6.77            | 13      | Pass |
|        |                         |                 | 15 MHz Bandwidth  |                         |                 |         |      |
|        |                         |                 |                   | 256QAM Modulation       |                 |         |      |
|        |                         |                 |                   | Low Channel, 736.5 MHz  | 7.09            | 13      | Pass |
|        | Mid Channel, 737.0 MHz  | 7.04            | 13                | Pass                    |                 |         |      |
|        | High Channel, 737.5 MHz | 7.00            | 13                | Pass                    |                 |         |      |

# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

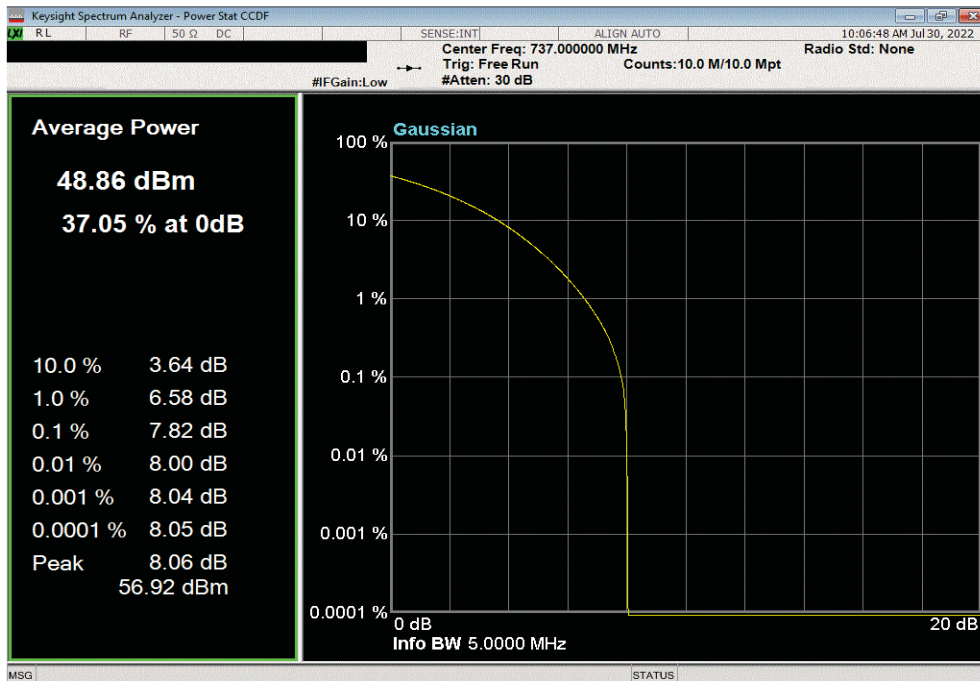


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 737.0 MHz |                 |                 |         |  |  |  |
|---|-----------------|-----------------|---------|--|--|--|
|   | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|   | 7.72            | 13              | Pass    |  |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 737.0 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.82            | 13              | Pass    |  |  |  |

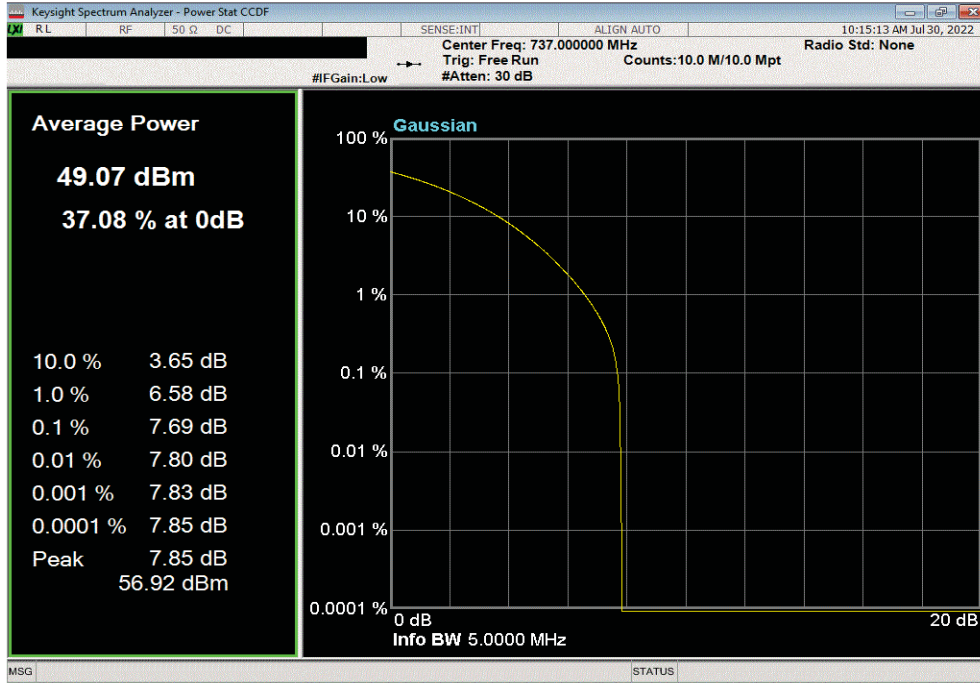


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

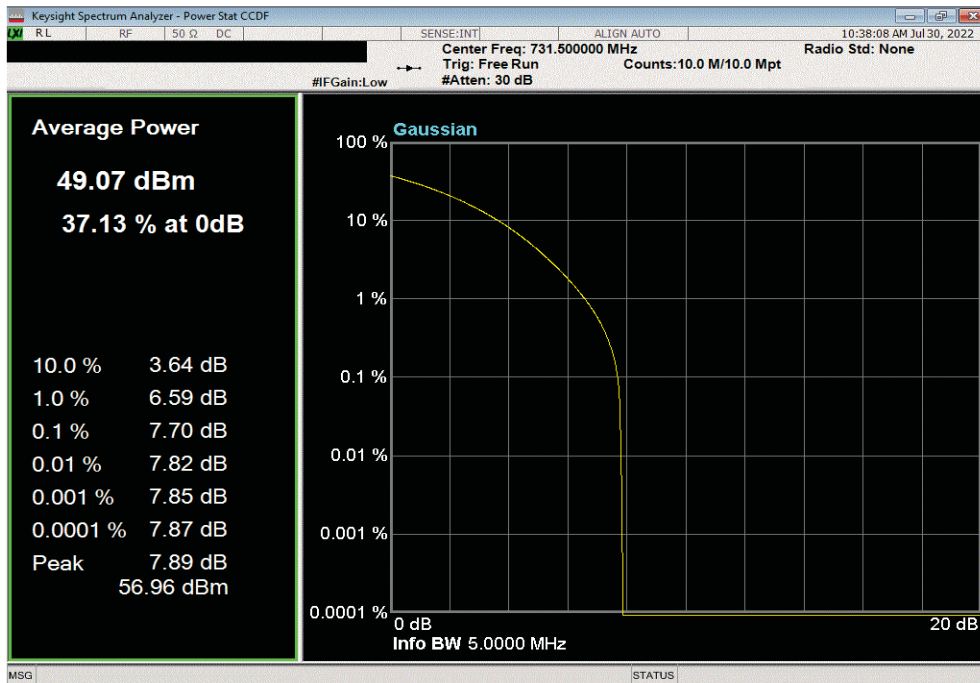


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 737.0 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.69            | 13              | Pass    |  |  |  |



| Port 1 Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 731.5 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.7             | 13              | Pass    |  |  |  |

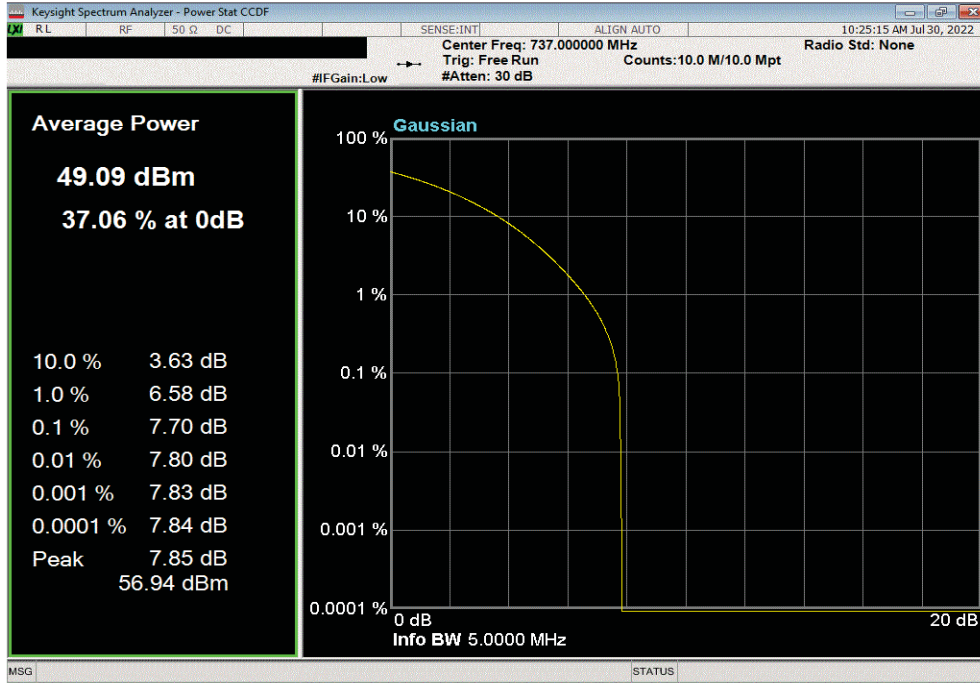


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

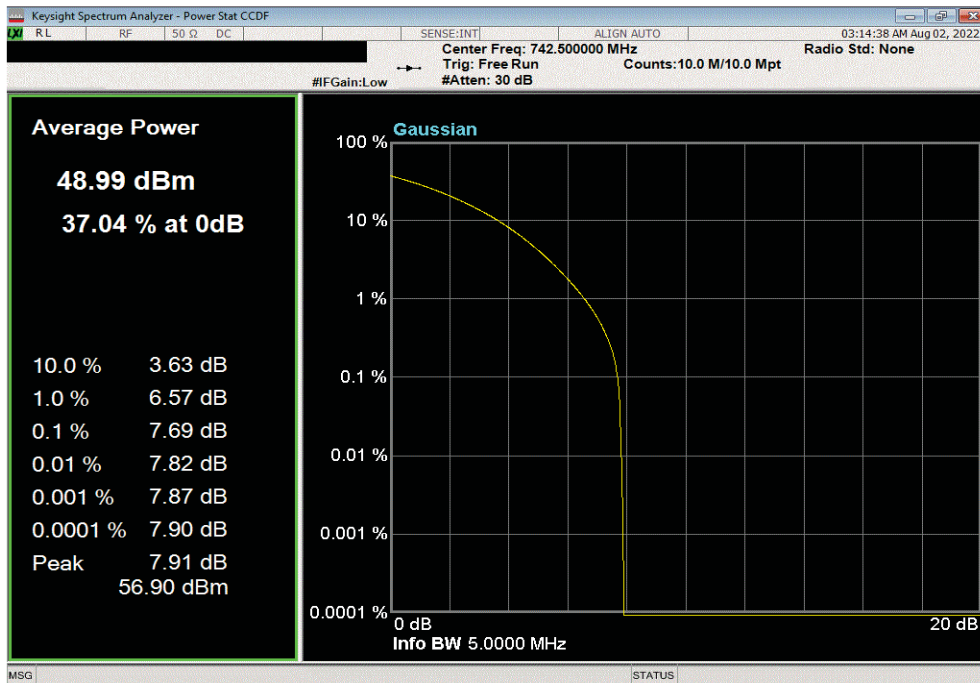


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |                 |                 |         |  |  |  |
|---|-----------------|-----------------|---------|--|--|--|
|   | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|   | 7.7             | 13              | Pass    |  |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 742.5 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.69            | 13              | Pass    |  |  |  |



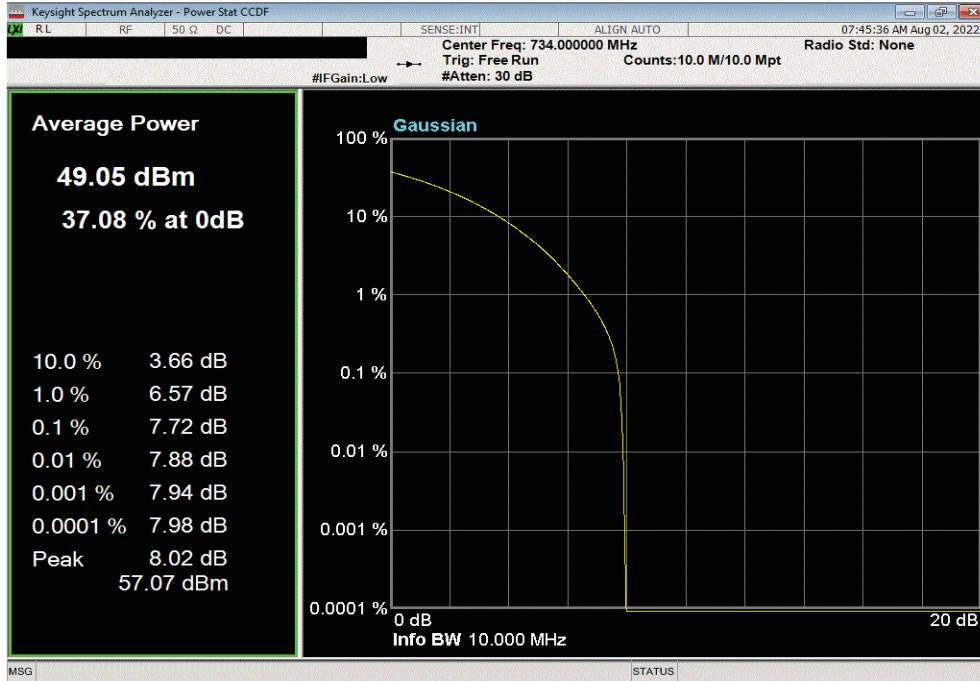


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

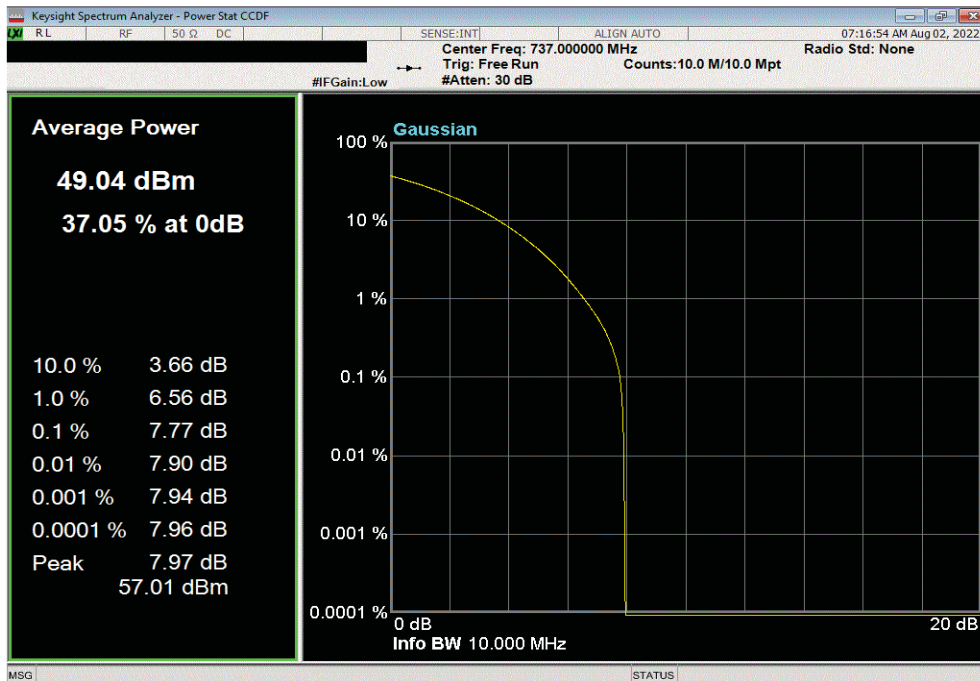


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Low Channel, 734 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.72            | 13              | Pass    |  |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.77            | 13              | Pass    |  |  |  |

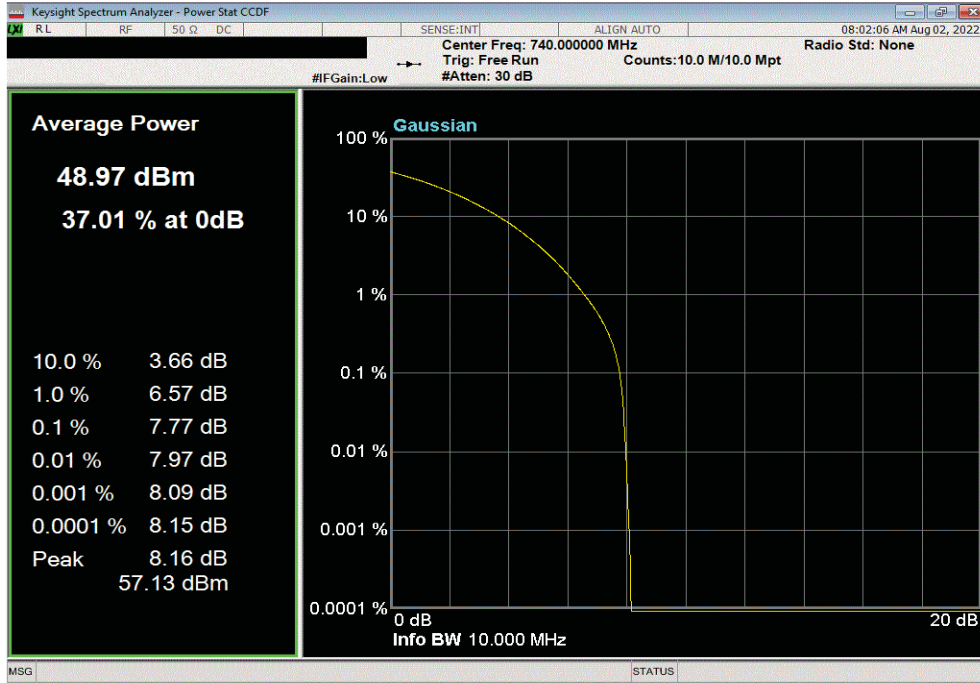


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

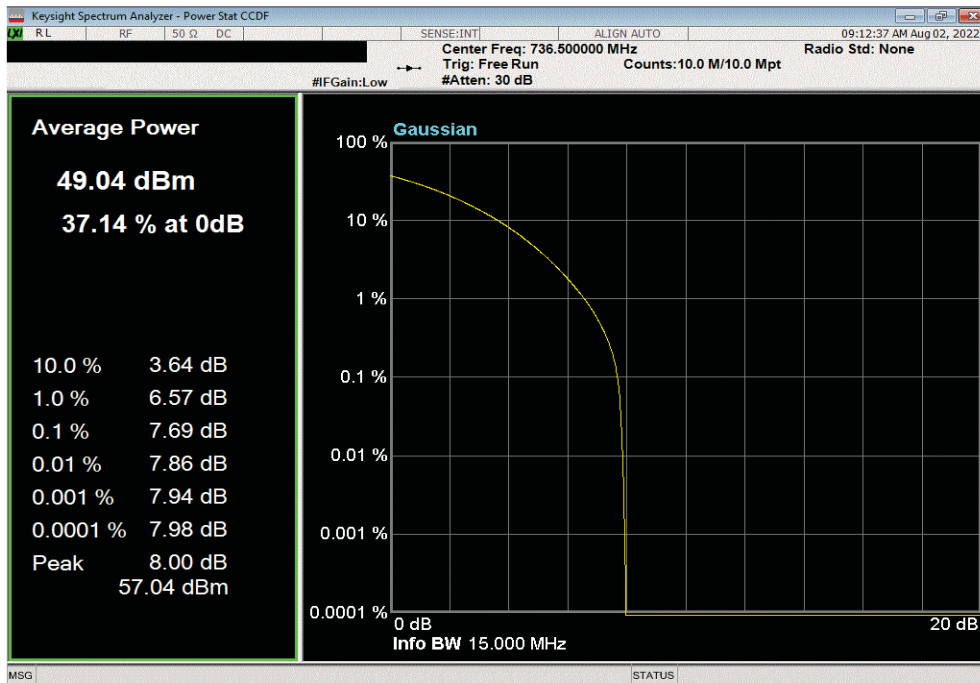


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, High Channel, 740 MHz |                 |                 |         |  |  |  |
|---|-----------------|-----------------|---------|--|--|--|
|   | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|   | 7.77            | 13              | Pass    |  |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Low Channel, 736.5 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.69            | 13              | Pass    |  |  |  |

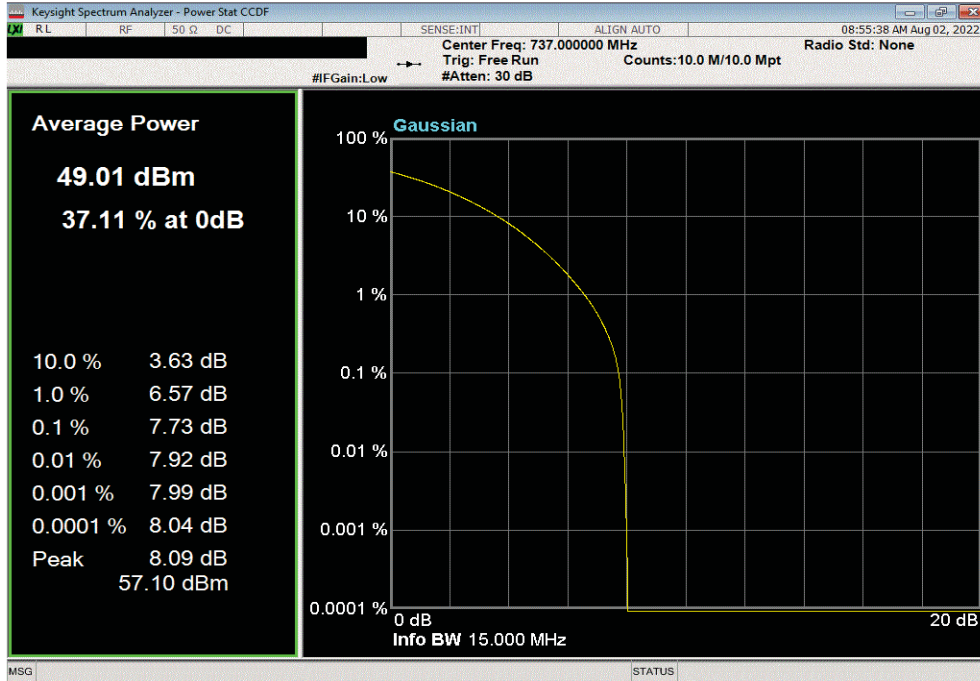


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

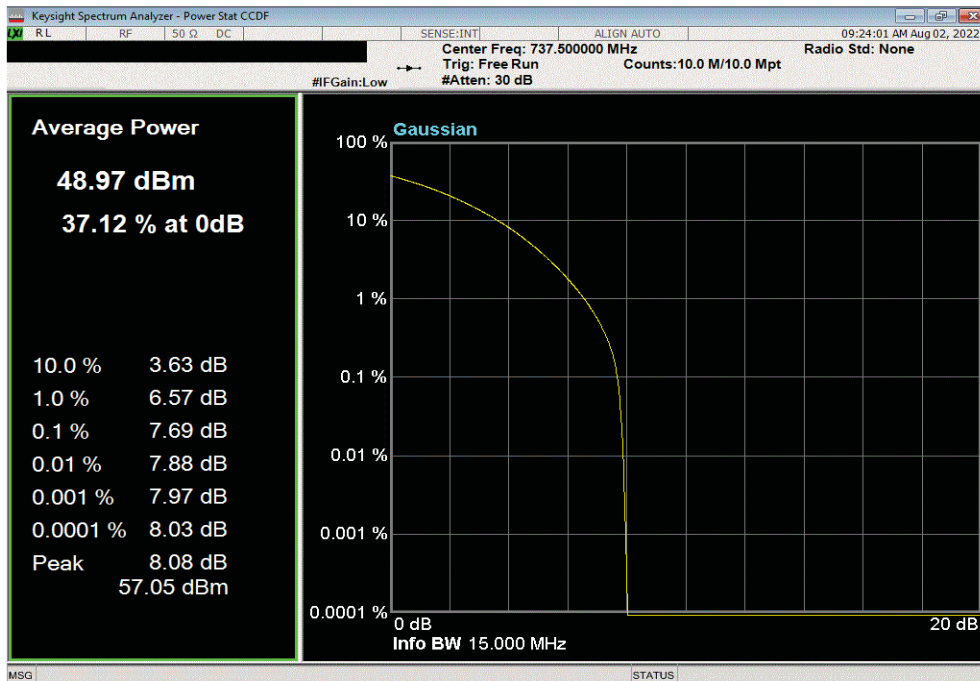


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.73            | 13              | Pass    |  |  |  |



| Port 1, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, High Channel, 737.5 MHz |                 |                 |         |  |  |  |
|---|-----------------|-----------------|---------|--|--|--|
|   | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|   | 7.69            | 13              | Pass    |  |  |  |

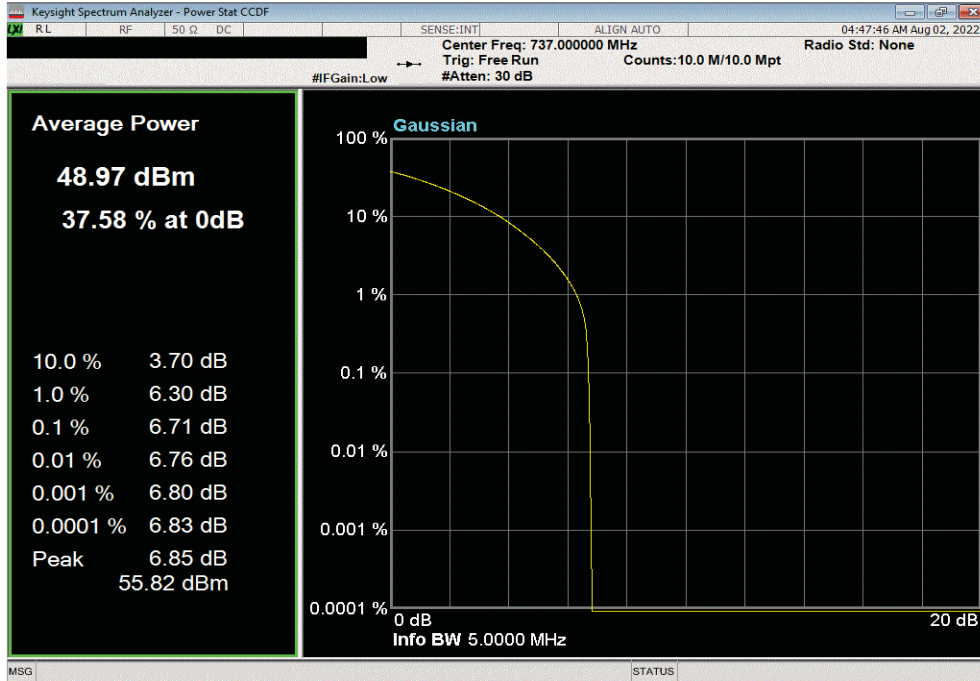


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

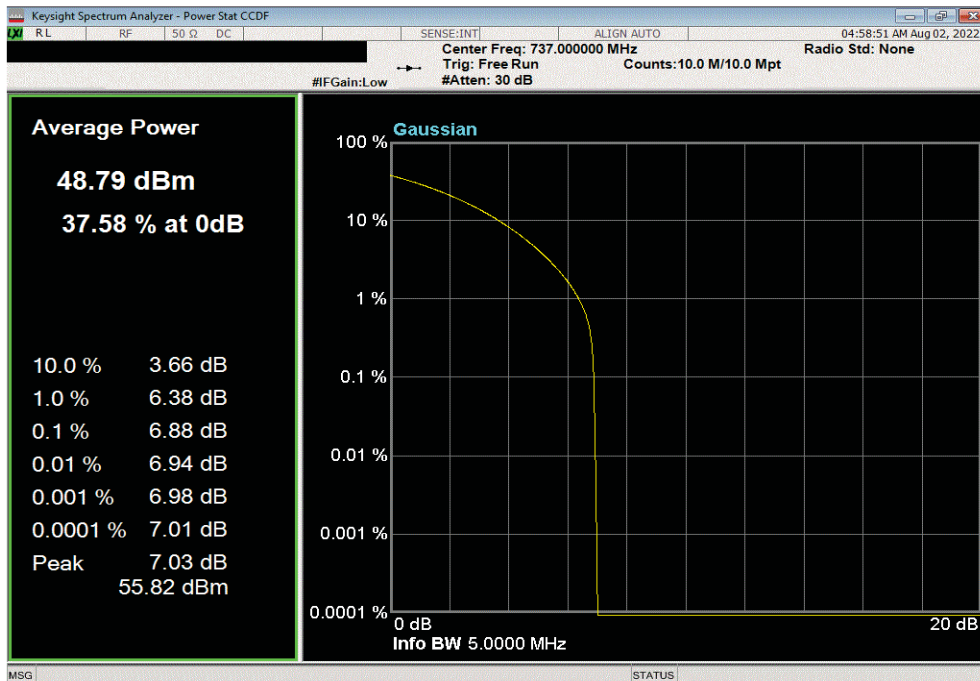


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 737.0 MHz |       |        |         |  |  |  |
|---|-------|--------|---------|--|--|--|
|   | Value | Limit  | Results |  |  |  |
|   | (dB)  | < (dB) |         |  |  |  |
|   | 6.71  | 13     | Pass    |  |  |  |



| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 737.0 MHz |       |        |         |  |  |  |
|--|-------|--------|---------|--|--|--|
|  | Value | Limit  | Results |  |  |  |
|  | (dB)  | < (dB) |         |  |  |  |
|  | 6.88  | 13     | Pass    |  |  |  |

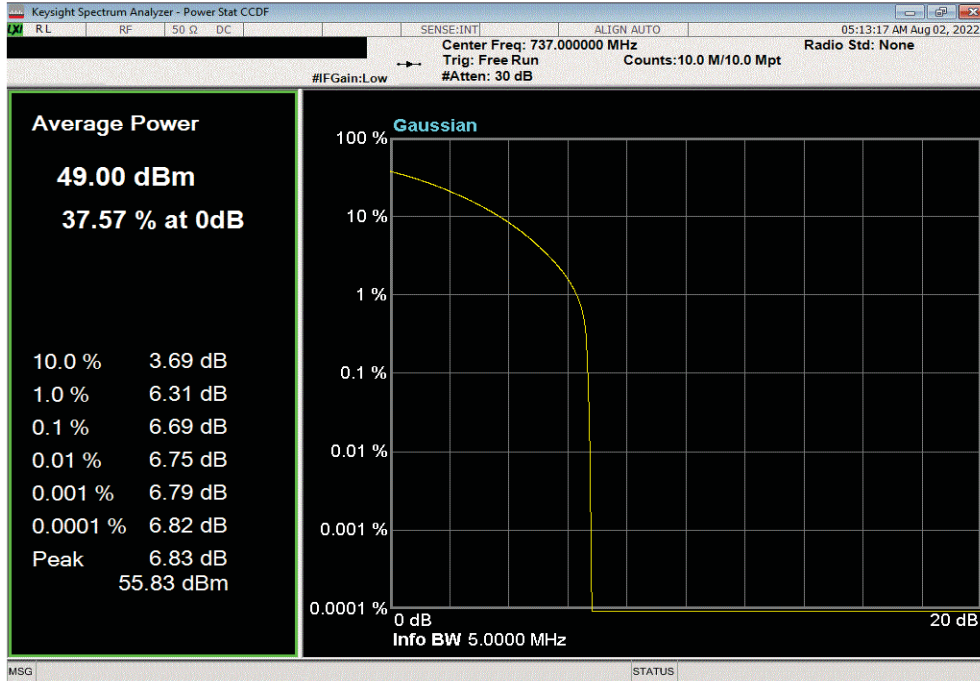


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

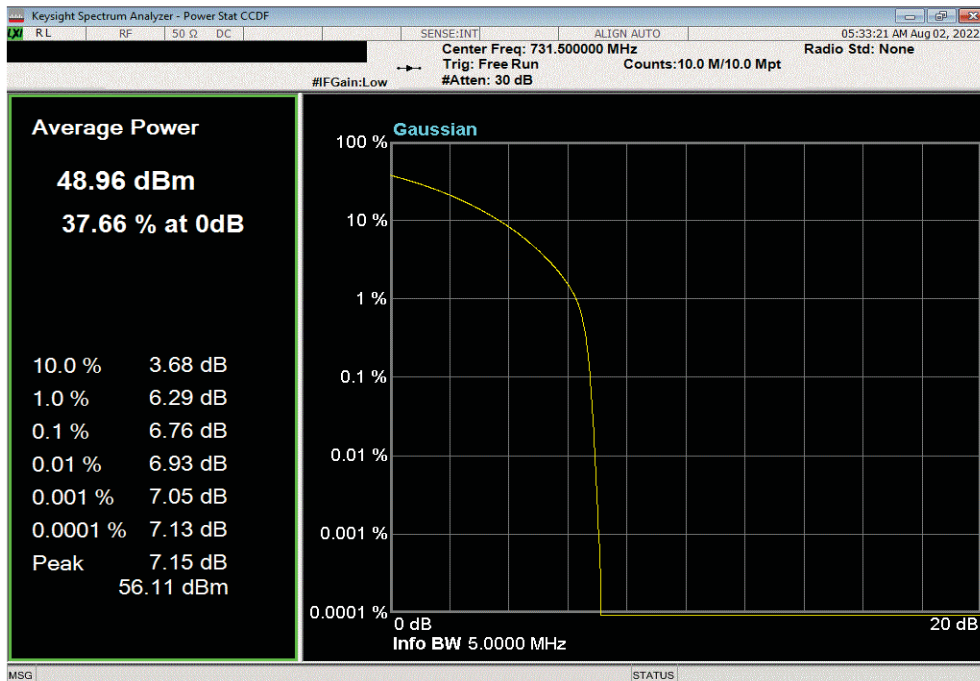


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 737.0 MHz |       |        |         |  |  |  |
|--|-------|--------|---------|--|--|--|
|  | Value | Limit  | Results |  |  |  |
|  | (dB)  | < (dB) |         |  |  |  |
|  | 6.69  | 13     | Pass    |  |  |  |



| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 731.5 MHz |       |        |         |  |  |  |
|---|-------|--------|---------|--|--|--|
|   | Value | Limit  | Results |  |  |  |
|   | (dB)  | < (dB) |         |  |  |  |
|   | 6.76  | 13     | Pass    |  |  |  |

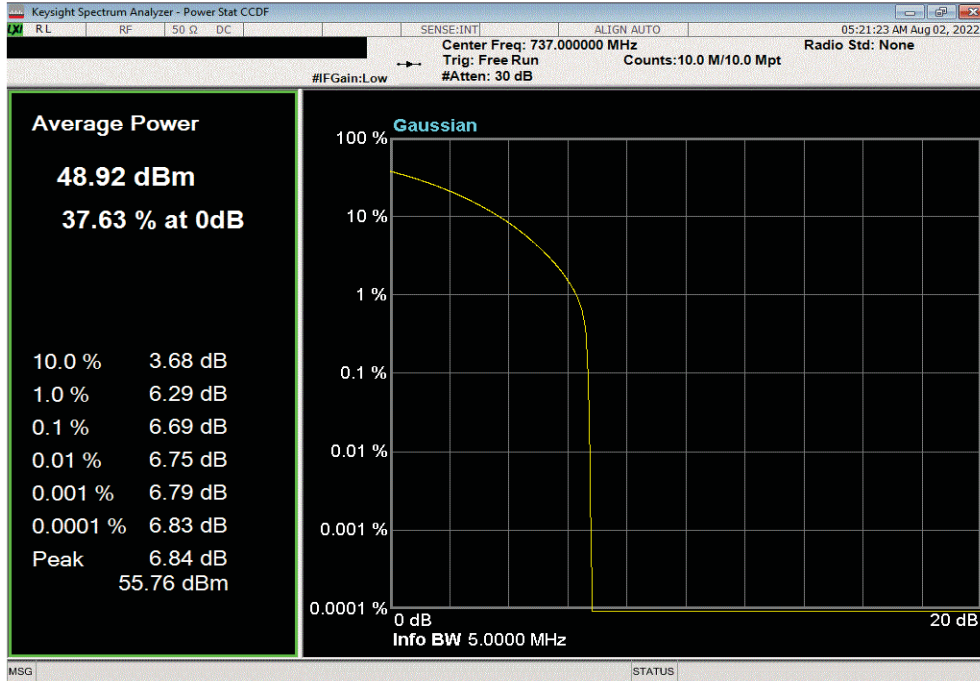


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

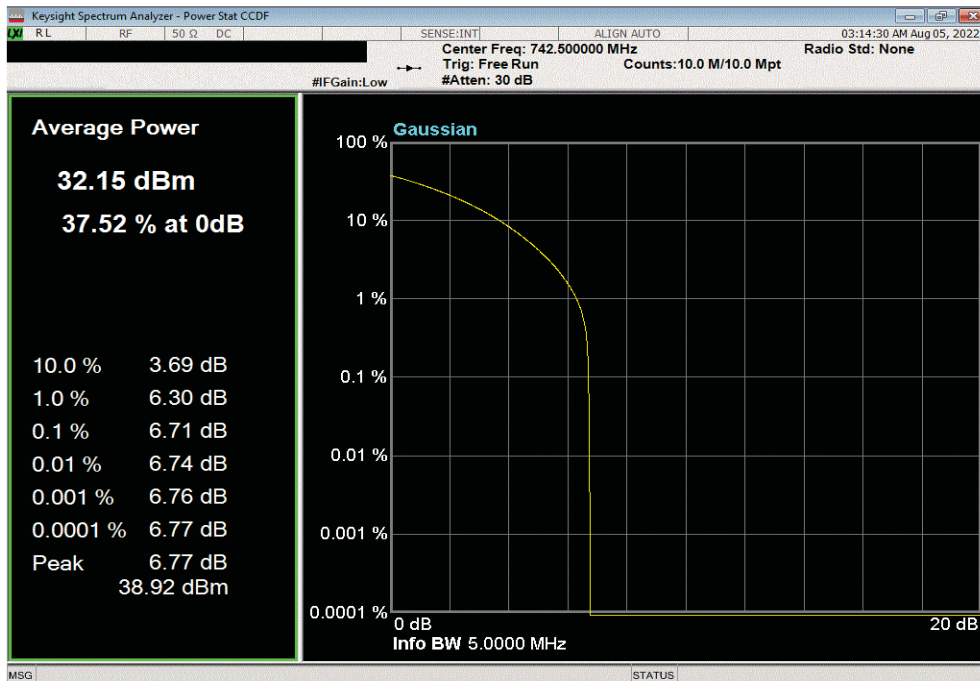


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |       |        |         |  |  |  |
|---|-------|--------|---------|--|--|--|
|   | Value | Limit  | Results |  |  |  |
|   | (dB)  | < (dB) |         |  |  |  |
|   | 6.69  | 13     | Pass    |  |  |  |



| Port 2, Band n12, 729 - 745 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 742.5 MHz |       |        |         |  |  |  |
|--|-------|--------|---------|--|--|--|
|  | Value | Limit  | Results |  |  |  |
|  | (dB)  | < (dB) |         |  |  |  |
|  | 6.71  | 13     | Pass    |  |  |  |

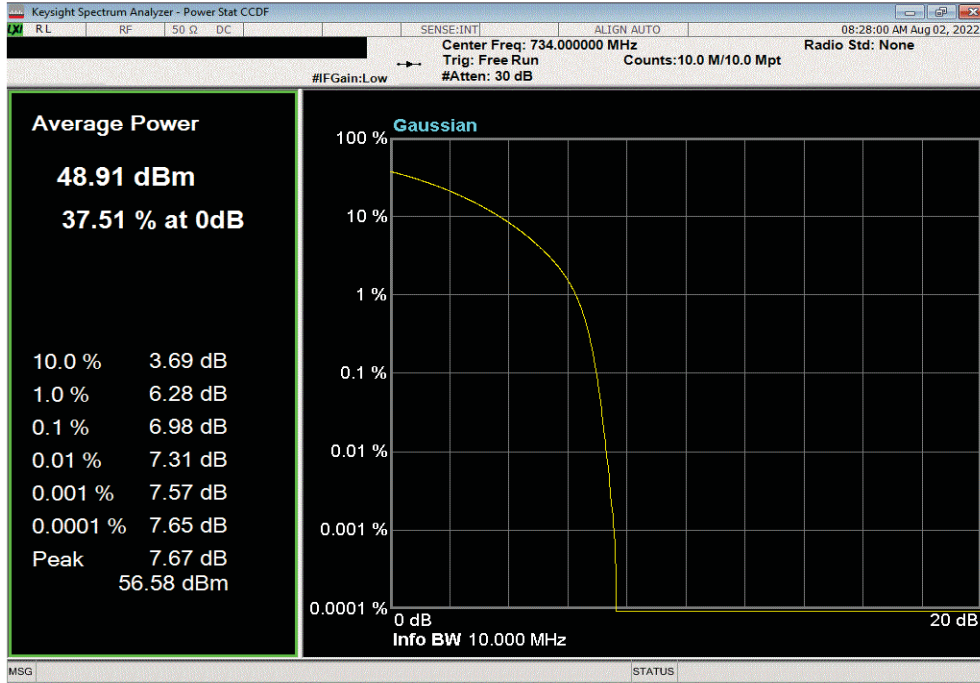


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

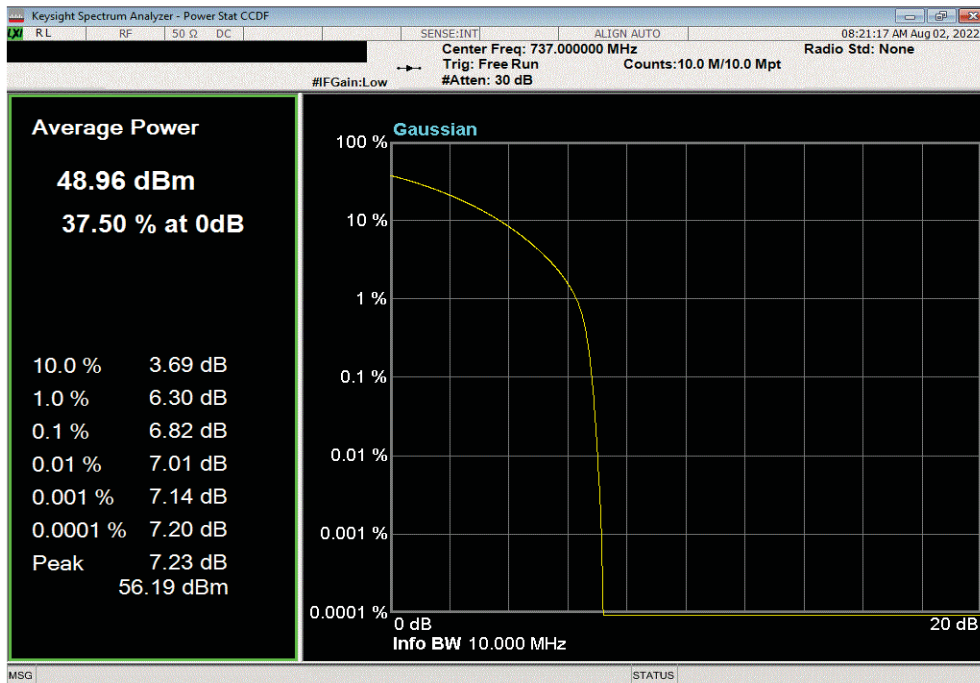


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Low Channel, 734 MHz |            |              |         |  |  |  |
|--|------------|--------------|---------|--|--|--|
|  | Value (dB) | Limit < (dB) | Results |  |  |  |
|  | 6.98       | 13           | Pass    |  |  |  |



| Port 2, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |            |              |         |  |  |  |
|--|------------|--------------|---------|--|--|--|
|  | Value (dB) | Limit < (dB) | Results |  |  |  |
|  | 6.82       | 13           | Pass    |  |  |  |

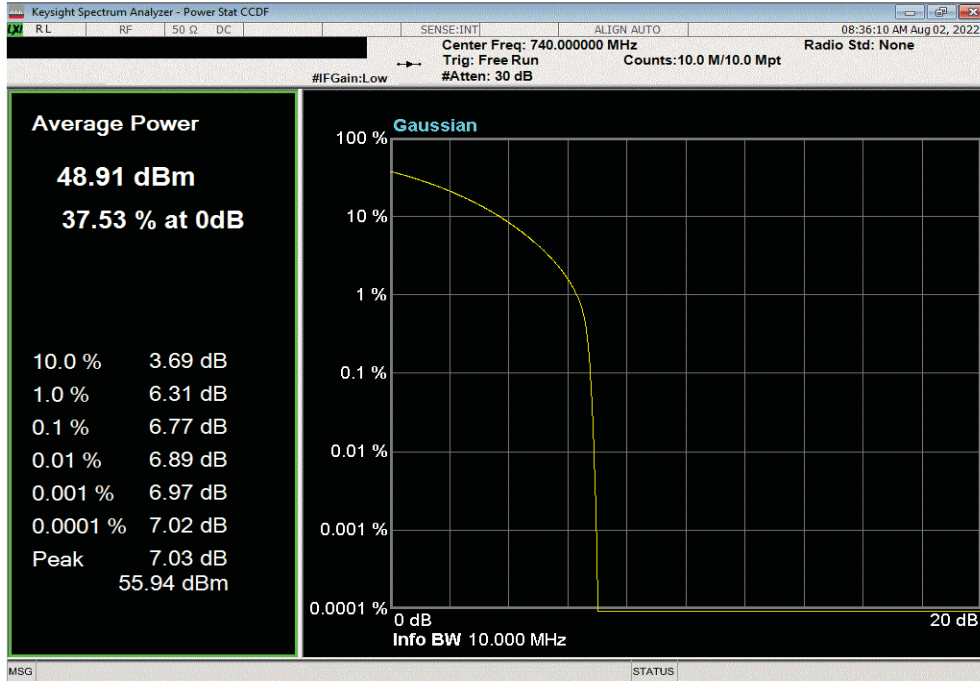


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

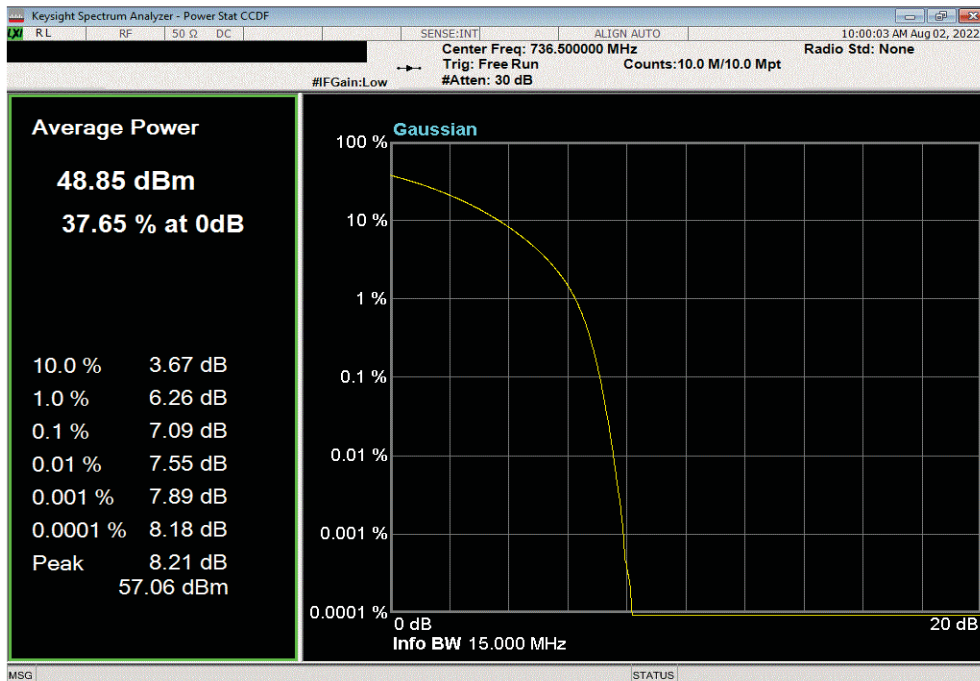


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 10 MHz Bandwidth, 256QAM Modulation, High Channel, 740 MHz |       |        |  |  |  |         |
|---|-------|--------|--|--|--|---------|
|   | Value | Limit  |  |  |  |         |
|   | (dB)  | < (dB) |  |  |  | Results |
|   | 6.77  | 13     |  |  |  | Pass    |



| Port 2, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Low Channel, 736.5 MHz |       |        |  |  |  |         |
|--|-------|--------|--|--|--|---------|
|  | Value | Limit  |  |  |  |         |
|  | (dB)  | < (dB) |  |  |  | Results |
|  | 7.09  | 13     |  |  |  | Pass    |



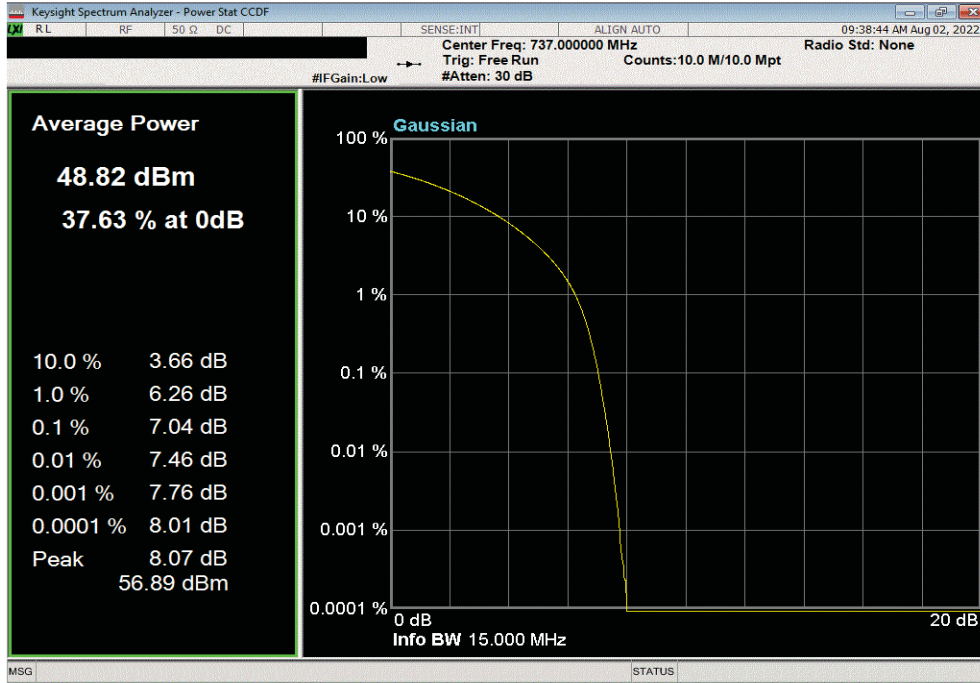


# PEAK TO AVERAGE POWER (PAPR) CCDF - BAND n12

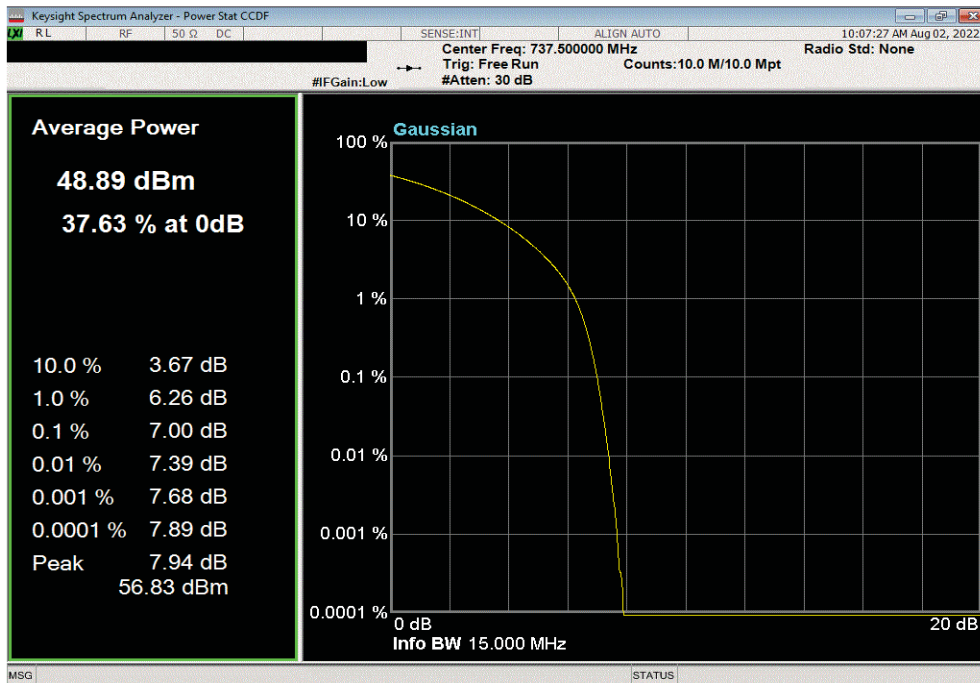


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, Mid Channel, 737.0 MHz |       |        |         |  |  |  |
|--|-------|--------|---------|--|--|--|
|  | Value | Limit  | Results |  |  |  |
|  | (dB)  | < (dB) |         |  |  |  |
|  | 7.04  | 13     | Pass    |  |  |  |



| Port 2, Band n12, 729 - 745 Mhz, 15 MHz Bandwidth, 256QAM Modulation, High Channel, 737.5 MHz |       |        |         |  |  |  |
|---|-------|--------|---------|--|--|--|
|   | Value | Limit  | Results |  |  |  |
|   | (dB)  | < (dB) |         |  |  |  |
|   | 7     | 13     | Pass    |  |  |  |



# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14



XMI 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

| Description                  | Manufacturer       | Model  | ID  | Last Cal.  | Cal. Due   |
|------------------------------|--------------------|--------|-----|------------|------------|
| Block - DC                   | Fairview Microwave | SD3239 | ANE | 2022-03-02 | 2023-03-02 |
| Generator - Signal           | Agilent            | N5173B | TIW | 2020-07-17 | 2023-07-17 |
| Analyzer - Spectrum Analyzer | Keysight           | N9010A | AFQ | 2022-01-17 | 2023-01-17 |

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed 13 dB.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.

The PAPR was measured using the CCDF function of the spectrum analyzer.

AHLBBA antenna ports 1&4 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

AHLBBA antenna ports 2&3 are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14



Tel: 2022.05.02.0 XMI: 2022.02.07.0

|  |              |   |
|--|--------------|---|
| EUT: AHLBBA (C2PC/C3PC FCC/ISED)   |              | Work Order: NOKI0047                              |
| Serial Number: K9193514835   |              | Date: 3-Aug-22                                    |
| Customer: Nokia Solutions and Networks   |              | Temperature: 21.5 °C                              |
| Attendees: Mitchell Hill   |              | Humidity: 56.9% RH                                |
| Project: None  |              | Barometric Pres.: 1021 mbar                       |
| Tested by: Marty Martin  | Power: 54VDC | Job Site: TX07                                    |
| TEST SPECIFICATIONS  |              |   |
| RSS 140 Issue 1: 2018  |              | ANSI C63.26:2015                                  |
| FCC 90R:2022   |              | ANSI C63.26:2015                                  |
| COMMENTS   |              |   |
| All measurement path losses were accounted for in the reference level offset including attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power. |              |   |
| DEVIATIONS FROM TEST STANDARD  |              |   |
| None   |              |   |
| Configuration #  | 2            | Signature <i>Marty Martin</i>                     |
|  |              | PAPR Value (dB)      PAPR Limit (dB)      Results |

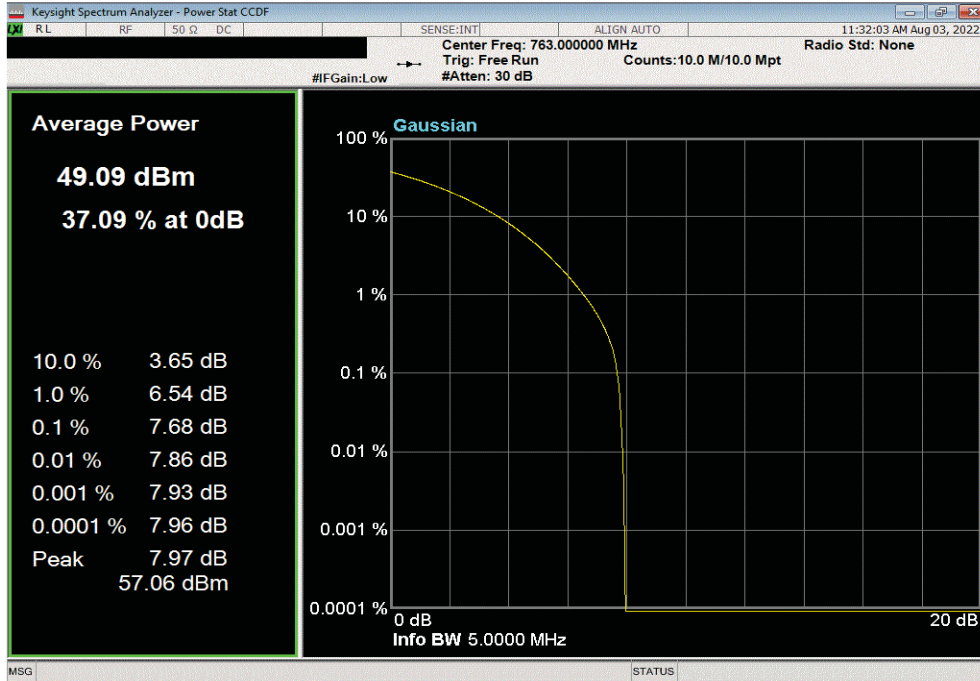
| Port                    | Band                    | Modulation      | Channel                 | PAPR Value (dB)         | PAPR Limit (dB) | Results         |
|-------------------------|-------------------------|-----------------|-------------------------|-------------------------|-----------------|-----------------|
| Port 1                  | Band n14, 758 - 768 Mhz | 5 MHz Bandwidth | QPSK Modulation         |                         |                 |                 |
|                         |                         |                 | Mid Channel, 763 MHz    | 7.68                    | 13              | Pass            |
|                         |                         |                 | 16QAM Modulation        |                         |                 |                 |
|                         |                         |                 | Mid Channel, 763 MHz    | 7.8                     | 13              | Pass            |
|                         |                         |                 | 64QAM Modulation        |                         |                 |                 |
|                         |                         |                 | Mid Channel, 763 MHz    | 7.67                    | 13              | Pass            |
|                         |                         |                 | 256QAM Modulation       |                         |                 |                 |
|                         |                         |                 | Low Channel, 760.5 MHz  | 7.67                    | 13              | Pass            |
|                         |                         |                 | Mid Channel, 763 MHz    | 7.67                    | 13              | Pass            |
|                         |                         |                 | High Channel, 765.5 MHz | 7.78                    | 13              | Pass            |
|                         |                         |                 | 10 MHz Bandwidth        |                         |                 |                 |
|                         |                         |                 | 256QAM Modulation       |                         |                 |                 |
|                         |                         |                 | Mid Channel, 763 MHz    | 7.86                    | 13              | Pass            |
|                         |                         |                 | Port 2                  | Band n14, 758 - 768 Mhz | 5 MHz Bandwidth | QPSK Modulation |
| Mid Channel, 763 MHz    | 6.76                    | 13              |                         |                         |                 | Pass            |
| 16QAM Modulation        |                         |                 |                         |                         |                 |                 |
| Mid Channel, 763 MHz    | 6.93                    | 13              |                         |                         |                 | Pass            |
| 64QAM Modulation        |                         |                 |                         |                         |                 |                 |
| Mid Channel, 763 MHz    | 6.75                    | 13              |                         |                         |                 | Pass            |
| 256QAM Modulation       |                         |                 |                         |                         |                 |                 |
| Low Channel, 760.5 MHz  | 6.71                    | 13              |                         |                         |                 | Pass            |
| Mid Channel, 763 MHz    | 6.76                    | 13              |                         |                         |                 | Pass            |
| High Channel, 765.5 MHz | 7.04                    | 13              |                         |                         |                 | Pass            |
| 10 MHz Bandwidth        |                         |                 |                         |                         |                 |                 |
| 256QAM Modulation       |                         |                 |                         |                         |                 |                 |
| Mid Channel, 763 MHz    | 7.33                    | 13              |                         |                         |                 | Pass            |

# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14

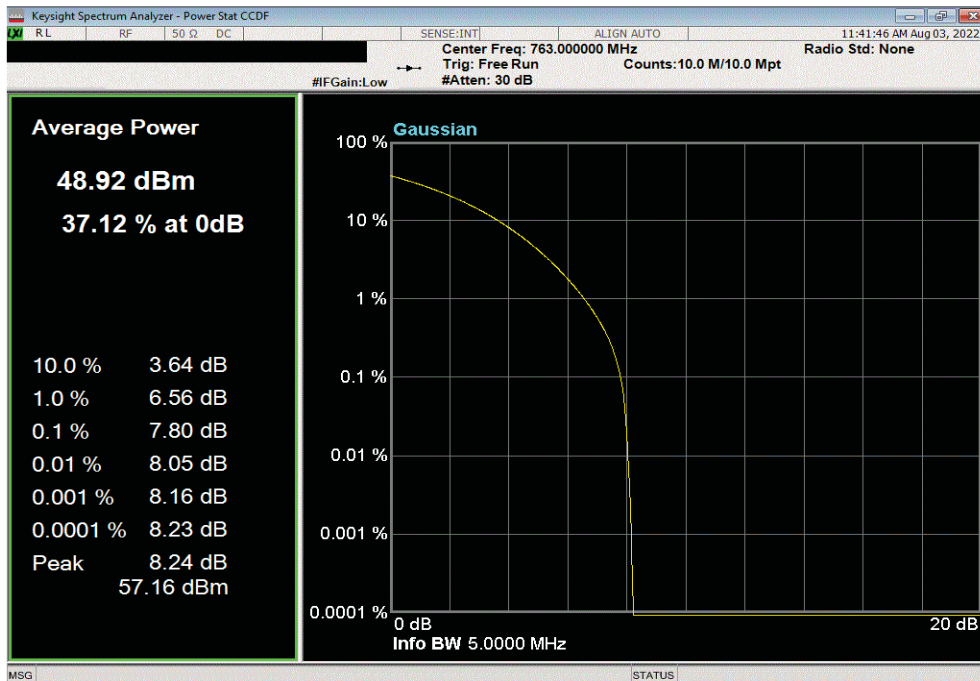


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz |                 |                 |         |  |  |  |
|---|-----------------|-----------------|---------|--|--|--|
|   | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|   | 7.68            | 13              | Pass    |  |  |  |



| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.8             | 13              | Pass    |  |  |  |

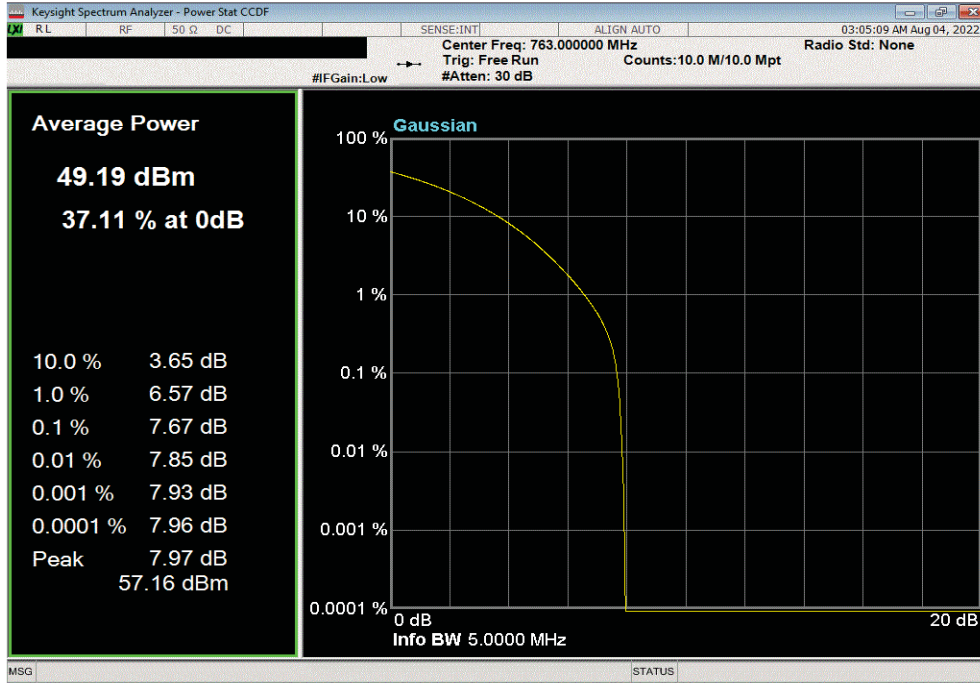


# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14

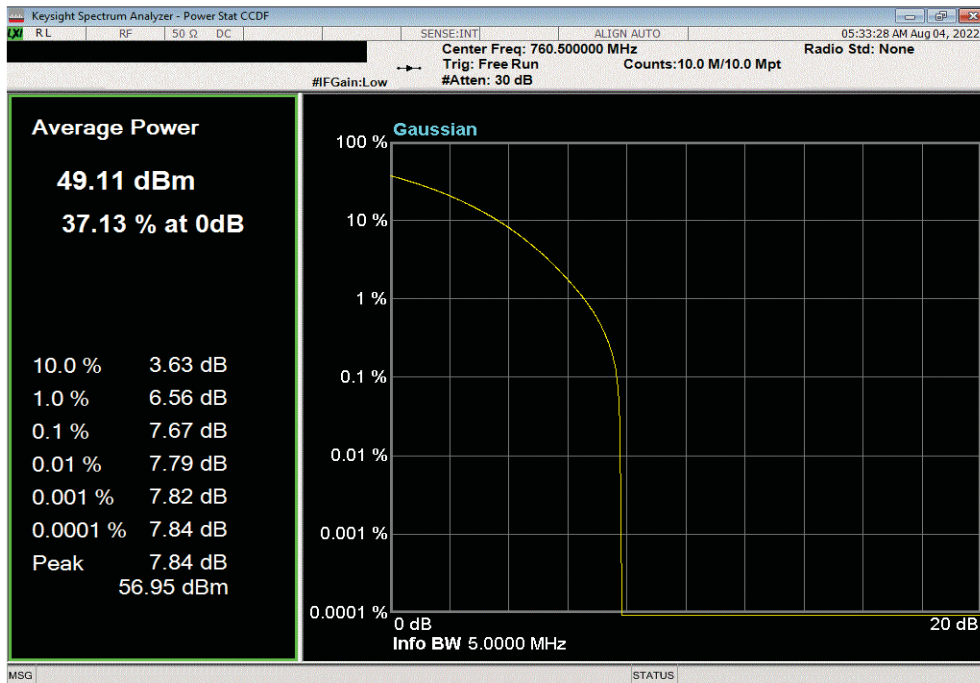


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 7.67            | 13              | Pass    |  |  |  |



| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 760.5 MHz |                 |                 |         |  |  |  |
|---|-----------------|-----------------|---------|--|--|--|
|   | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|   | 7.67            | 13              | Pass    |  |  |  |

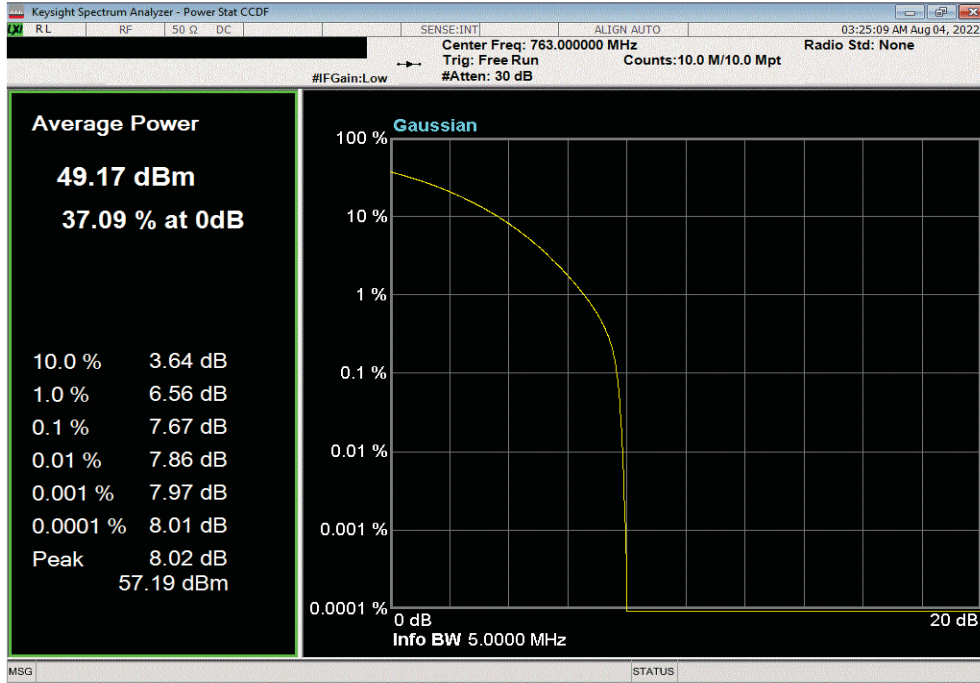


# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14

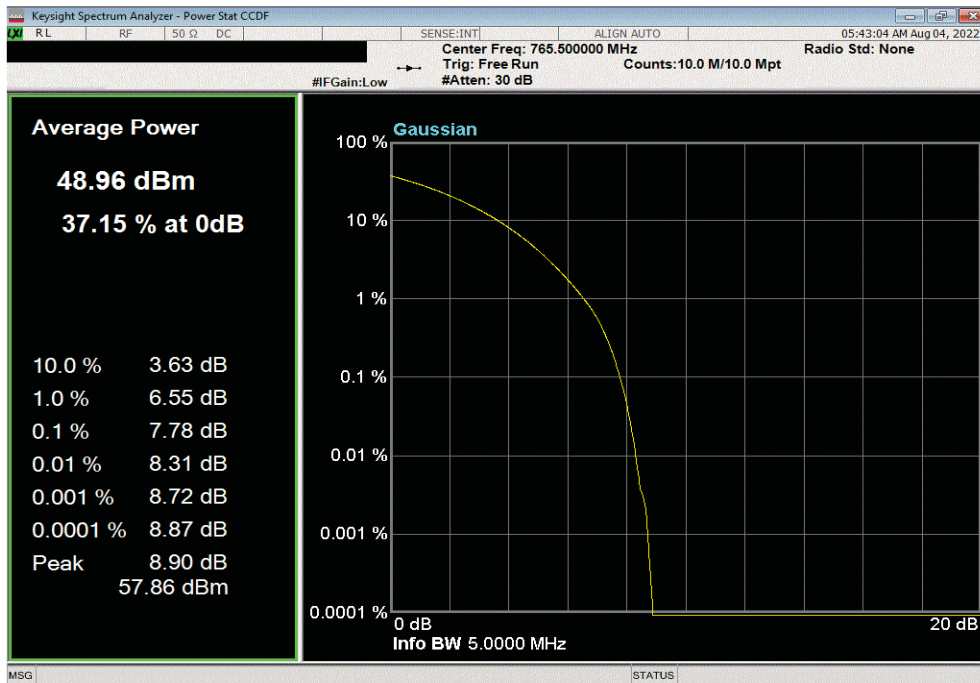


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz |  |  |  |                 |                 |         |
|---|--|--|--|-----------------|-----------------|---------|
|   |  |  |  | PAPR Value (dB) | PAPR Limit (dB) | Results |
|   |  |  |  | 7.67            | 13              | Pass    |



| Port 1, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 765.5 MHz |  |  |  |                 |                 |         |
|--|--|--|--|-----------------|-----------------|---------|
|  |  |  |  | PAPR Value (dB) | PAPR Limit (dB) | Results |
|  |  |  |  | 7.78            | 13              | Pass    |

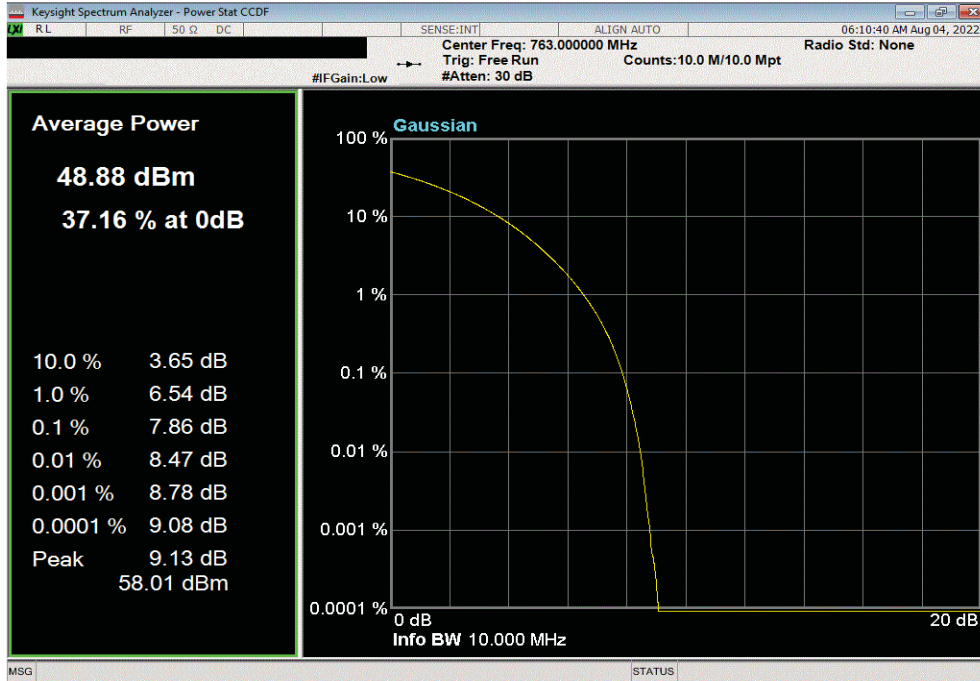


# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14



TbTx 2022.05.02.0 XMit 2022.02.07.0

| Port 1, Band n14, 758 - 768 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz |  |                 |                 |         |  |  |
|--|--|-----------------|-----------------|---------|--|--|
|  |  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |
|  |  | 7.86            | 13              | Pass    |  |  |

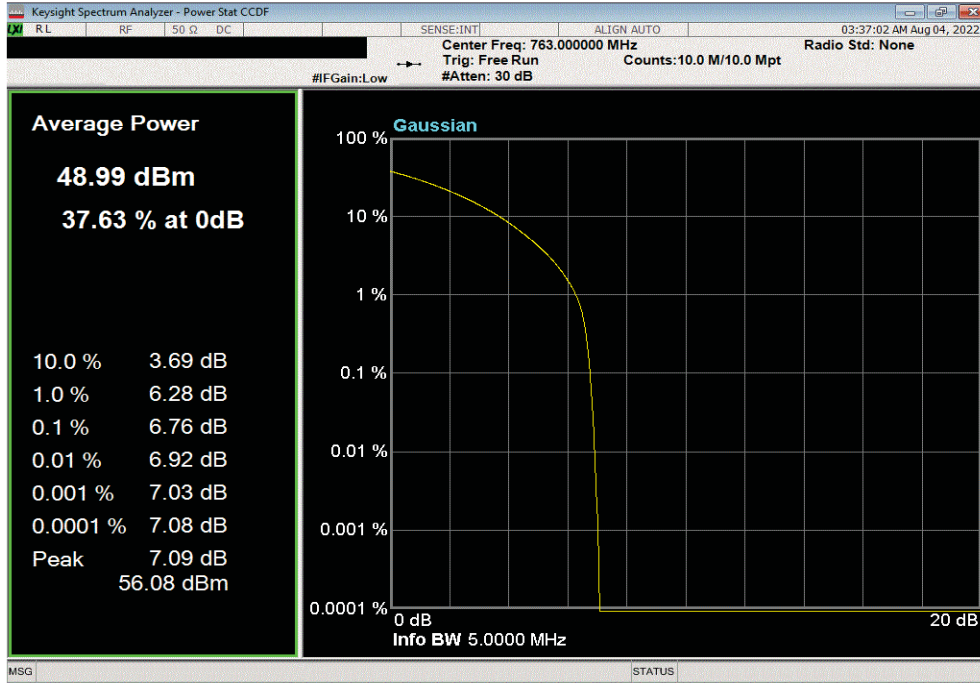


# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14

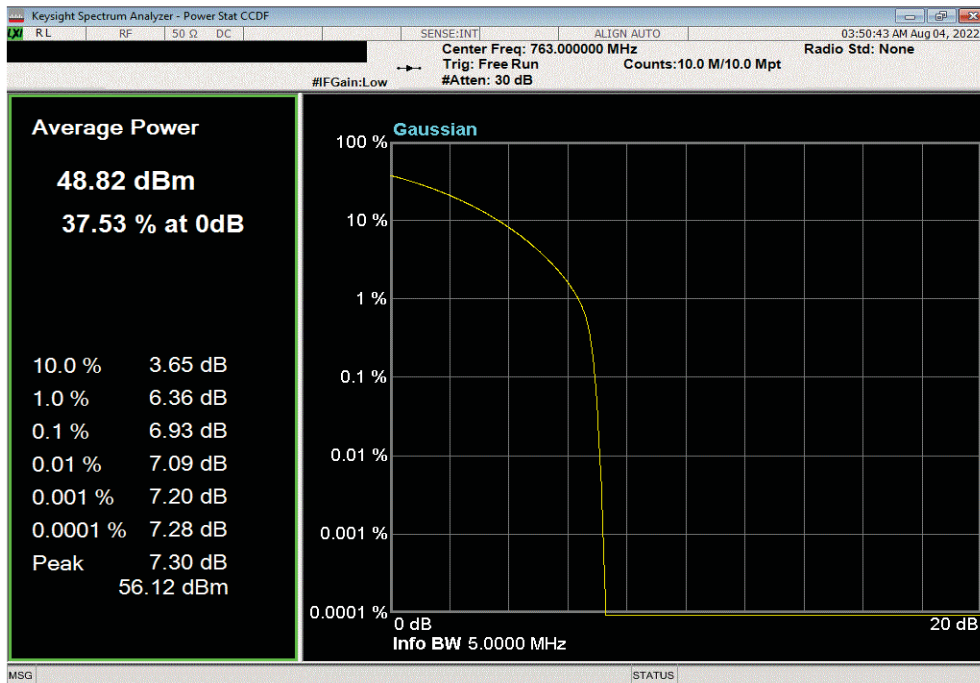


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel, 763 MHz |                 |                 |         |  |  |  |
|---|-----------------|-----------------|---------|--|--|--|
|   | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|   | 6.76            | 13              | Pass    |  |  |  |



| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 16QAM Modulation, Mid Channel, 763 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 6.93            | 13              | Pass    |  |  |  |



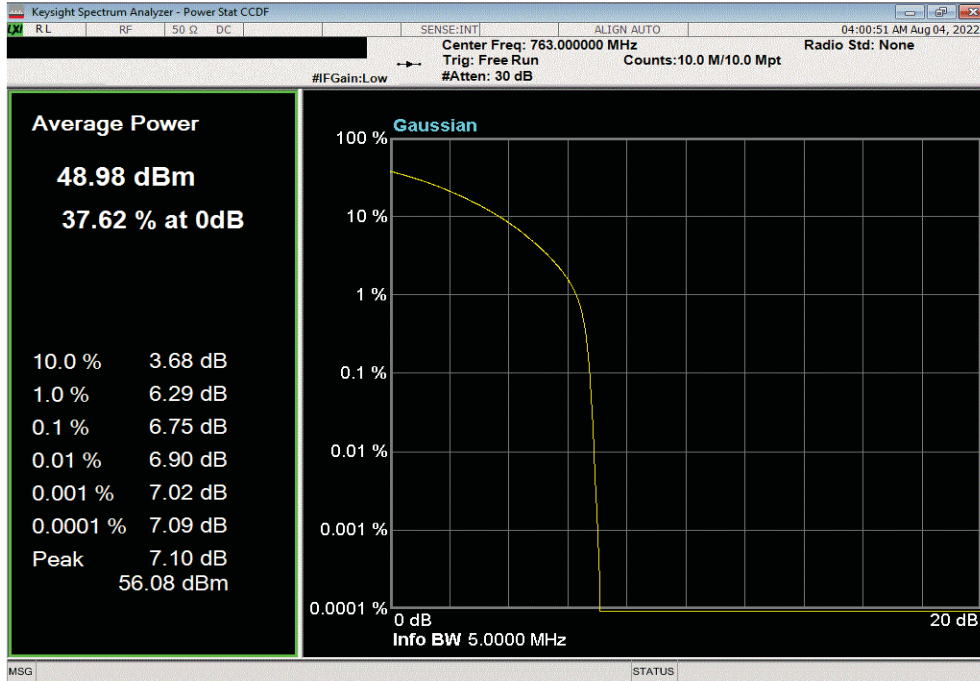


# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14

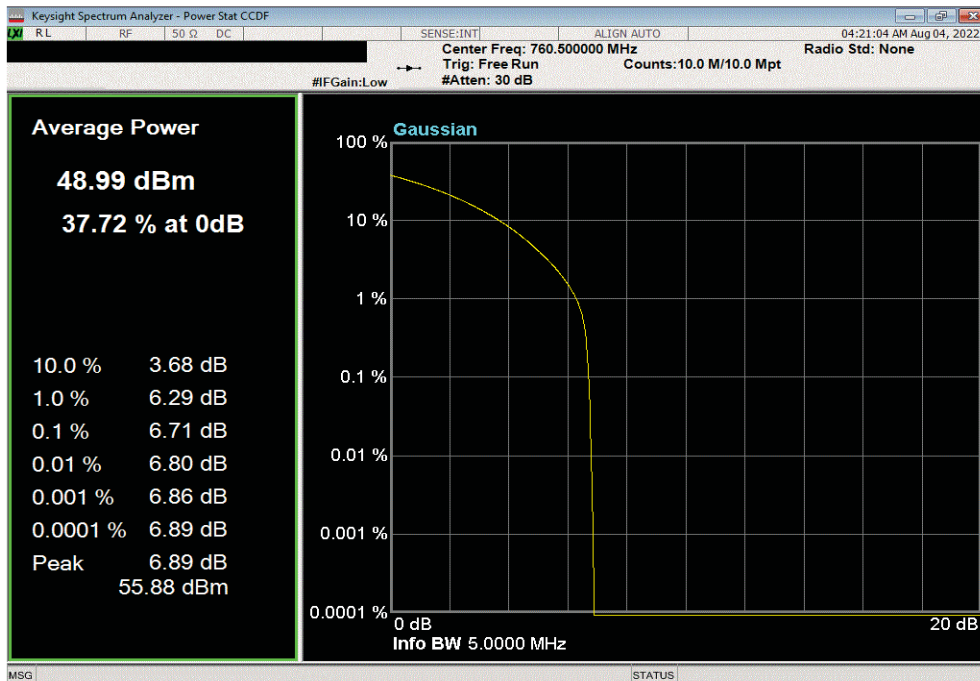


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 64QAM Modulation, Mid Channel, 763 MHz |                 |                 |         |  |  |  |
|--|-----------------|-----------------|---------|--|--|--|
|  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|  | 6.75            | 13              | Pass    |  |  |  |



| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Low Channel, 760.5 MHz |                 |                 |         |  |  |  |
|---|-----------------|-----------------|---------|--|--|--|
|   | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |  |
|   | 6.71            | 13              | Pass    |  |  |  |

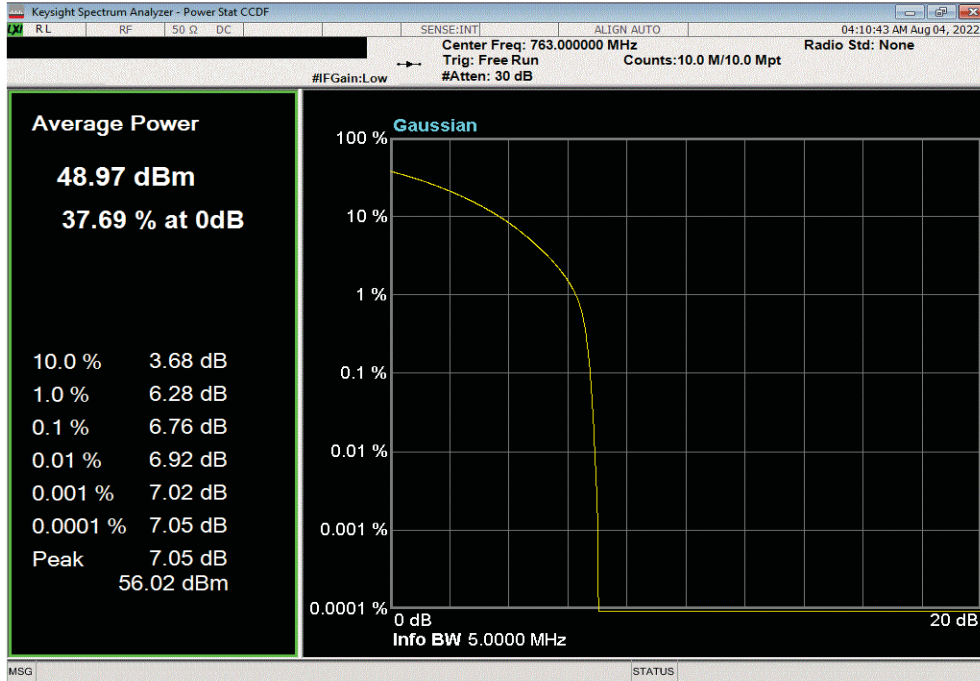


# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14

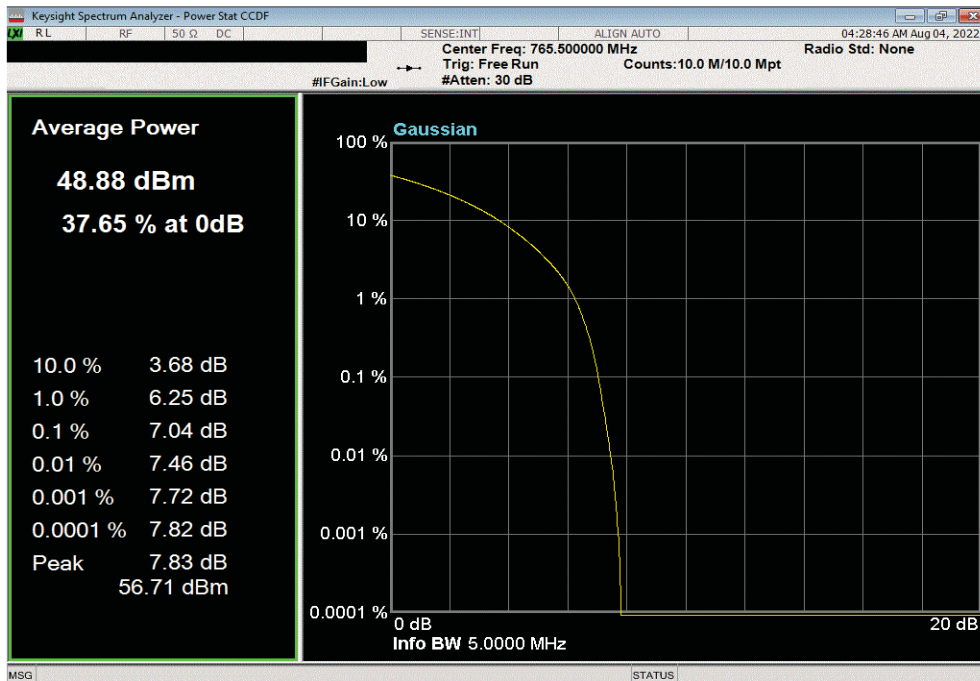


TotTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz |  |  |  |                 |                 |         |
|---|--|--|--|-----------------|-----------------|---------|
|   |  |  |  | PAPR Value (dB) | PAPR Limit (dB) | Results |
|   |  |  |  | 6.76            | 13              | Pass    |



| Port 2, Band n14, 758 - 768 Mhz, 5 MHz Bandwidth, 256QAM Modulation, High Channel, 765.5 MHz |  |  |  |                 |                 |         |
|--|--|--|--|-----------------|-----------------|---------|
|  |  |  |  | PAPR Value (dB) | PAPR Limit (dB) | Results |
|  |  |  |  | 7.04            | 13              | Pass    |



# PEAK TO AVERAGE POWER (PAPR) CCDF BAND n14



TbTx 2022.05.02.0 XMit 2022.02.07.0

| Port 2, Band n14, 758 - 768 Mhz, 10 MHz Bandwidth, 256QAM Modulation, Mid Channel, 763 MHz |  |                 |                 |         |  |  |
|--|--|-----------------|-----------------|---------|--|--|
|  |  | PAPR Value (dB) | PAPR Limit (dB) | Results |  |  |
|  |  | 7.33            | 13              | Pass    |  |  |

