

# Measurement Results

No.1-5071/22-01-02\_Log1\_conducted

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## Test logging

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## EUT Information

### EUT DEFINITION

|                      |         |
|----------------------|---------|
| Manufacturer         | MEC     |
| Type                 | Display |
| Serial Number        | NI      |
| Setup Number         | 1.0     |
| Version SW           | NI      |
| Version FW           | NI      |
| Version HW           | NI      |
| Comment 1            |         |
| Comment 2            |         |
| Temperature [°C] Min | -20     |
| Temperature [°C] Nom | 20      |
| Temperature [°C] Max | 55      |
| Voltage [V] Min      | 3.3     |
| Voltage [V] Nom      | 3.8     |
| Voltage [V] Max      | 4.2     |

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 n-HT20 mode

### Test References

|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| TC Start                          | 25.01.2023 10:27:54                                                             |
| Ambit Temp [°C]   Humidity [rel%] | 24.9   24                                                                       |
| System Version                    | 3.3.4.3                                                                         |
| Test Specification                | FCC 15.247 -                                                                    |
| Test Method                       | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method |
| TC Version                        | 0.0.1                                                                           |
| My Description                    | FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 n-HT20 mode |

Add. Information

### EUT Common Settings WLAN2G4

|                         |     |
|-------------------------|-----|
| Number of Antenna Ports | 1   |
| User Interaction        | Yes |

### Test Parameter

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Technology to test                               | WLAN2G4 n-HT20 mode              |
| Antenna Port used                                | 1                                |
| Temperature                                      | nom                              |
| Voltage                                          | nom                              |
| Frequency low to test                            | False   Freq [MHz] 2412          |
| Frequency mid to test                            | False   Freq [MHz] 2437          |
| Frequency high to test                           | True   Freq [MHz] 2462           |
| Auto Control enabled Power Supply   Climatic Box | No   No                          |
| Additional Path Loss [dB]                        | 0                                |
| Switched Path                                    | EUT - SignalingUnit - PowerMeter |

### Test Equipment

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

Power sensor,Keysight Technologies,U2042XA,MY58020014,A.02.06

## Test at TX 2462 MHz

### RESULT

| <i>Test Description</i> | <i>Lower Limit</i> | <i>Upper Limit</i> | <i>Measured</i> | <i>Unit</i> | <i>Verdict</i> |
|-------------------------|--------------------|--------------------|-----------------|-------------|----------------|
| Found Peak cond.        | ---                | ---                | 14.92           | dBm         | PASS           |

Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 n-HT20 mode

### Test References

|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| TC Start                          | 25.01.2023 10:27:12                                                             |
| Ambit Temp [°C]   Humidity [rel%] | 24.9   24                                                                       |
| System Version                    | 3.3.4.3                                                                         |
| Test Specification                | FCC 15.247 -                                                                    |
| Test Method                       | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method |
| TC Version                        | 0.0.1                                                                           |
| My Description                    | FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 n-HT20 mode |

Add. Information

### EUT Common Settings WLAN2G4

|                         |     |
|-------------------------|-----|
| Number of Antenna Ports | 1   |
| User Interaction        | Yes |

### Test Parameter

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Technology to test                               | WLAN2G4 n-HT20 mode              |
| Antenna Port used                                | 1                                |
| Temperature                                      | nom                              |
| Voltage                                          | nom                              |
| Frequency low to test                            | False   Freq [MHz] 2412          |
| Frequency mid to test                            | True   Freq [MHz] 2437           |
| Frequency high to test                           | False   Freq [MHz] 2462          |
| Auto Control enabled Power Supply   Climatic Box | No   No                          |
| Additional Path Loss [dB]                        | 0                                |
| Switched Path                                    | EUT - SignalingUnit - PowerMeter |

### Test Equipment

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

Power sensor,Keysight Technologies,U2042XA,MY58020014,A.02.06

## Test at TX 2437 MHz

### RESULT

| <i>Test Description</i> | <i>Lower Limit</i> | <i>Upper Limit</i> | <i>Measured</i> | <i>Unit</i> | <i>Verdict</i> |
|-------------------------|--------------------|--------------------|-----------------|-------------|----------------|
| Found Peak cond.        | --                 | --                 | 14.77           | dBm         | PASS           |

Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 n-HT20 mode

### Test References

|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| TC Start                          | 25.01.2023 10:26:50                                                             |
| Ambit Temp [°C]   Humidity [rel%] | 24.9   24                                                                       |
| System Version                    | 3.3.4.3                                                                         |
| Test Specification                | FCC 15.247 -                                                                    |
| Test Method                       | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method |
| TC Version                        | 0.0.1                                                                           |
| My Description                    | FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 n-HT20 mode |

Add. Information

### EUT Common Settings WLAN2G4

|                         |     |
|-------------------------|-----|
| Number of Antenna Ports | 1   |
| User Interaction        | Yes |

### Test Parameter

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Technology to test                               | WLAN2G4 n-HT20 mode              |
| Antenna Port used                                | 1                                |
| Temperature                                      | nom                              |
| Voltage                                          | nom                              |
| Frequency low to test                            | True   Freq [MHz] 2412           |
| Frequency mid to test                            | False   Freq [MHz] 2437          |
| Frequency high to test                           | False   Freq [MHz] 2462          |
| Auto Control enabled Power Supply   Climatic Box | No   No                          |
| Additional Path Loss [dB]                        | 0                                |
| Switched Path                                    | EUT - SignalingUnit - PowerMeter |

### Test Equipment

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

Power sensor,Keysight Technologies,U2042XA,MY58020014,A.02.06



## Test at TX 2412 MHz

### RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|----------|------|---------|
| Found Peak cond. | ---         | ---         | 15.11    | dBm  | PASS    |

### Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 g mode

### Test References

|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| TC Start                          | 25.01.2023 10:24:22                                                             |
| Ambit Temp [°C]   Humidity [rel%] | 24.9   24                                                                       |
| System Version                    | 3.3.4.3                                                                         |
| Test Specification                | FCC 15.247 -                                                                    |
| Test Method                       | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method |
| TC Version                        | 0.0.1                                                                           |
| My Description                    | FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 g mode      |

Add. Information

### EUT Common Settings WLAN2G4

|                         |     |
|-------------------------|-----|
| Number of Antenna Ports | 1   |
| User Interaction        | Yes |

### Test Parameter

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Technology to test                               | WLAN2G4 g mode                   |
| Antenna Port used                                | 1                                |
| Temperature                                      | nom                              |
| Voltage                                          | nom                              |
| Frequency low to test                            | False   Freq [MHz] 2412          |
| Frequency mid to test                            | False   Freq [MHz] 2437          |
| Frequency high to test                           | True   Freq [MHz] 2462           |
| Auto Control enabled Power Supply   Climatic Box | No   No                          |
| Additional Path Loss [dB]                        | 0                                |
| Switched Path                                    | EUT - SignalingUnit - PowerMeter |

### Test Equipment

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

Power sensor,Keysight Technologies,U2042XA,MY58020014,A.02.06

## Test at TX 2462 MHz

### RESULT

| <i>Test Description</i> | <i>Lower Limit</i> | <i>Upper Limit</i> | <i>Measured</i> | <i>Unit</i> | <i>Verdict</i> |
|-------------------------|--------------------|--------------------|-----------------|-------------|----------------|
| Found Peak cond.        | ---                | ---                | 15.56           | dBm         | PASS           |

Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 g mode

### Test References

|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| TC Start                          | 25.01.2023 10:23:37                                                             |
| Ambit Temp [°C]   Humidity [rel%] | 24.9   24                                                                       |
| System Version                    | 3.3.4.3                                                                         |
| Test Specification                | FCC 15.247 -                                                                    |
| Test Method                       | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method |
| TC Version                        | 0.0.1                                                                           |
| My Description                    | FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 g mode      |

Add. Information

### EUT Common Settings WLAN2G4

|                         |     |
|-------------------------|-----|
| Number of Antenna Ports | 1   |
| User Interaction        | Yes |

### Test Parameter

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Technology to test                               | WLAN2G4 g mode                   |
| Antenna Port used                                | 1                                |
| Temperature                                      | nom                              |
| Voltage                                          | nom                              |
| Frequency low to test                            | False   Freq [MHz] 2412          |
| Frequency mid to test                            | True   Freq [MHz] 2437           |
| Frequency high to test                           | False   Freq [MHz] 2462          |
| Auto Control enabled Power Supply   Climatic Box | No   No                          |
| Additional Path Loss [dB]                        | 0                                |
| Switched Path                                    | EUT - SignalingUnit - PowerMeter |

### Test Equipment

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

Power sensor,Keysight Technologies,U2042XA,MY58020014,A.02.06

## Test at TX 2437 MHz

### RESULT

| <i>Test Description</i> | <i>Lower Limit</i> | <i>Upper Limit</i> | <i>Measured</i> | <i>Unit</i> | <i>Verdict</i> |
|-------------------------|--------------------|--------------------|-----------------|-------------|----------------|
| Found Peak cond.        | ---                | ---                | 15.39           | dBm         | PASS           |

### Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 g mode

### Test References

|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| TC Start                          | 25.01.2023 10:23:08                                                             |
| Ambit Temp [°C]   Humidity [rel%] | 24.9   24                                                                       |
| System Version                    | 3.3.4.3                                                                         |
| Test Specification                | FCC 15.247 -                                                                    |
| Test Method                       | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method |
| TC Version                        | 0.0.1                                                                           |
| My Description                    | FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 g mode      |

Add. Information

### EUT Common Settings WLAN2G4

|                         |     |
|-------------------------|-----|
| Number of Antenna Ports | 1   |
| User Interaction        | Yes |

### Test Parameter

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Technology to test                               | WLAN2G4 g mode                   |
| Antenna Port used                                | 1                                |
| Temperature                                      | nom                              |
| Voltage                                          | nom                              |
| Frequency low to test                            | True   Freq [MHz] 2412           |
| Frequency mid to test                            | False   Freq [MHz] 2437          |
| Frequency high to test                           | False   Freq [MHz] 2462          |
| Auto Control enabled Power Supply   Climatic Box | No   No                          |
| Additional Path Loss [dB]                        | 0                                |
| Switched Path                                    | EUT - SignalingUnit - PowerMeter |

### Test Equipment

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

Power sensor,Keysight Technologies,U2042XA,MY58020014,A.02.06

## Test at TX 2412 MHz

### RESULT

| <i>Test Description</i> | <i>Lower Limit</i> | <i>Upper Limit</i> | <i>Measured</i> | <i>Unit</i> | <i>Verdict</i> |
|-------------------------|--------------------|--------------------|-----------------|-------------|----------------|
| Found Peak cond.        | ---                | ---                | 15.2            | dBm         | PASS           |

### Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 b mode

### Test References

|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| TC Start                          | 25.01.2023 10:21:10                                                             |
| Ambit Temp [°C]   Humidity [rel%] | 24.8   24                                                                       |
| System Version                    | 3.3.4.3                                                                         |
| Test Specification                | FCC 15.247 -                                                                    |
| Test Method                       | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method |
| TC Version                        | 0.0.1                                                                           |
| My Description                    | FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 b mode      |

Add. Information

### EUT Common Settings WLAN2G4

|                         |     |
|-------------------------|-----|
| Number of Antenna Ports | 1   |
| User Interaction        | Yes |

### Test Parameter

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Technology to test                               | WLAN2G4 b mode                   |
| Antenna Port used                                | 1                                |
| Temperature                                      | nom                              |
| Voltage                                          | nom                              |
| Frequency low to test                            | False   Freq [MHz] 2412          |
| Frequency mid to test                            | False   Freq [MHz] 2437          |
| Frequency high to test                           | True   Freq [MHz] 2462           |
| Auto Control enabled Power Supply   Climatic Box | No   No                          |
| Additional Path Loss [dB]                        | 0                                |
| Switched Path                                    | EUT - SignalingUnit - PowerMeter |

### Test Equipment

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

Power sensor,Keysight Technologies,U2042XA,MY58020014,A.02.06



## Test at TX 2462 MHz

### RESULT

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------|-------------|-------------|----------|------|---------|
| Found Peak cond. | ---         | ---         | 15.57    | dBm  | PASS    |

### Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 b mode

### Test References

|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| TC Start                          | 25.01.2023 10:20:43                                                             |
| Ambit Temp [°C]   Humidity [rel%] | 24.8   24                                                                       |
| System Version                    | 3.3.4.3                                                                         |
| Test Specification                | FCC 15.247 -                                                                    |
| Test Method                       | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method |
| TC Version                        | 0.0.1                                                                           |
| My Description                    | FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 b mode      |

Add. Information

### EUT Common Settings WLAN2G4

|                         |     |
|-------------------------|-----|
| Number of Antenna Ports | 1   |
| User Interaction        | Yes |

### Test Parameter

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Technology to test                               | WLAN2G4 b mode                   |
| Antenna Port used                                | 1                                |
| Temperature                                      | nom                              |
| Voltage                                          | nom                              |
| Frequency low to test                            | False   Freq [MHz] 2412          |
| Frequency mid to test                            | True   Freq [MHz] 2437           |
| Frequency high to test                           | False   Freq [MHz] 2462          |
| Auto Control enabled Power Supply   Climatic Box | No   No                          |
| Additional Path Loss [dB]                        | 0                                |
| Switched Path                                    | EUT - SignalingUnit - PowerMeter |

### Test Equipment

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

Power sensor,Keysight Technologies,U2042XA,MY58020014,A.02.06

## Test at TX 2437 MHz

### RESULT

| <i>Test Description</i> | <i>Lower Limit</i> | <i>Upper Limit</i> | <i>Measured</i> | <i>Unit</i> | <i>Verdict</i> |
|-------------------------|--------------------|--------------------|-----------------|-------------|----------------|
| Found Peak cond.        | ---                | ---                | 15.28           | dBm         | PASS           |

### Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 b mode

### Test References

|                                   |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| TC Start                          | 25.01.2023 10:20:06                                                             |
| Ambit Temp [°C]   Humidity [rel%] | 24.8   24                                                                       |
| System Version                    | 3.3.4.3                                                                         |
| Test Specification                | FCC 15.247 -                                                                    |
| Test Method                       | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method |
| TC Version                        | 0.0.1                                                                           |
| My Description                    | FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 b mode      |

Add. Information

### EUT Common Settings WLAN2G4

|                         |     |
|-------------------------|-----|
| Number of Antenna Ports | 1   |
| User Interaction        | Yes |

### Test Parameter

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Technology to test                               | WLAN2G4 b mode                   |
| Antenna Port used                                | 1                                |
| Temperature                                      | nom                              |
| Voltage                                          | nom                              |
| Frequency low to test                            | True   Freq [MHz] 2412           |
| Frequency mid to test                            | False   Freq [MHz] 2437          |
| Frequency high to test                           | False   Freq [MHz] 2462          |
| Auto Control enabled Power Supply   Climatic Box | No   No                          |
| Additional Path Loss [dB]                        | 0                                |
| Switched Path                                    | EUT - SignalingUnit - PowerMeter |

### Test Equipment

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

Power sensor,Keysight Technologies,U2042XA,MY58020014,A.02.06

## Test at TX 2412 MHz

### RESULT

| <i>Test Description</i> | <i>Lower Limit</i> | <i>Upper Limit</i> | <i>Measured</i> | <i>Unit</i> | <i>Verdict</i> |
|-------------------------|--------------------|--------------------|-----------------|-------------|----------------|
| Found Peak cond.        | ---                | ---                | 15.15           | dBm         | PASS           |

### Verdict

PASS

- END OF DOCUMENT -