

# Conducted test results

No.1-8496-24-01-06\_TR1-A201-R1

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April 23, 2025

|                  |                               |
|------------------|-------------------------------|
| Test Standard(s) | NA - NI                       |
|                  | FCC 15.247 - NI               |
|                  | FCC 15.247, ISSED RSS247 - NI |

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Authorized

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Lab Manager  
Radio Labs

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## NA # Peak output power 3MHz/3MHz ~ BT LE 1 Msps

### References

|                                               |                                  |
|-----------------------------------------------|----------------------------------|
| TC start                                      | 22.04.2025 09:51:13              |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled        |
| System version                                | 5.1.9.0                          |
| Standard   Version                            | NA   NI                          |
| Method                                        |                                  |
| Description                                   | Peak OP 3MHz/3MHz - BT LE 1 Msps |
| Information                                   |                                  |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | BT LE 1 Msps                              |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 2402                    |
| Frequency mid to test                            | False   Freq [MHz] 2440                   |
| Frequency high to test                           | False   Freq [MHz] 2480                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0.7                                       |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |

## Test Parameter

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Switch bits

00010001:00010001:00000000:00000001

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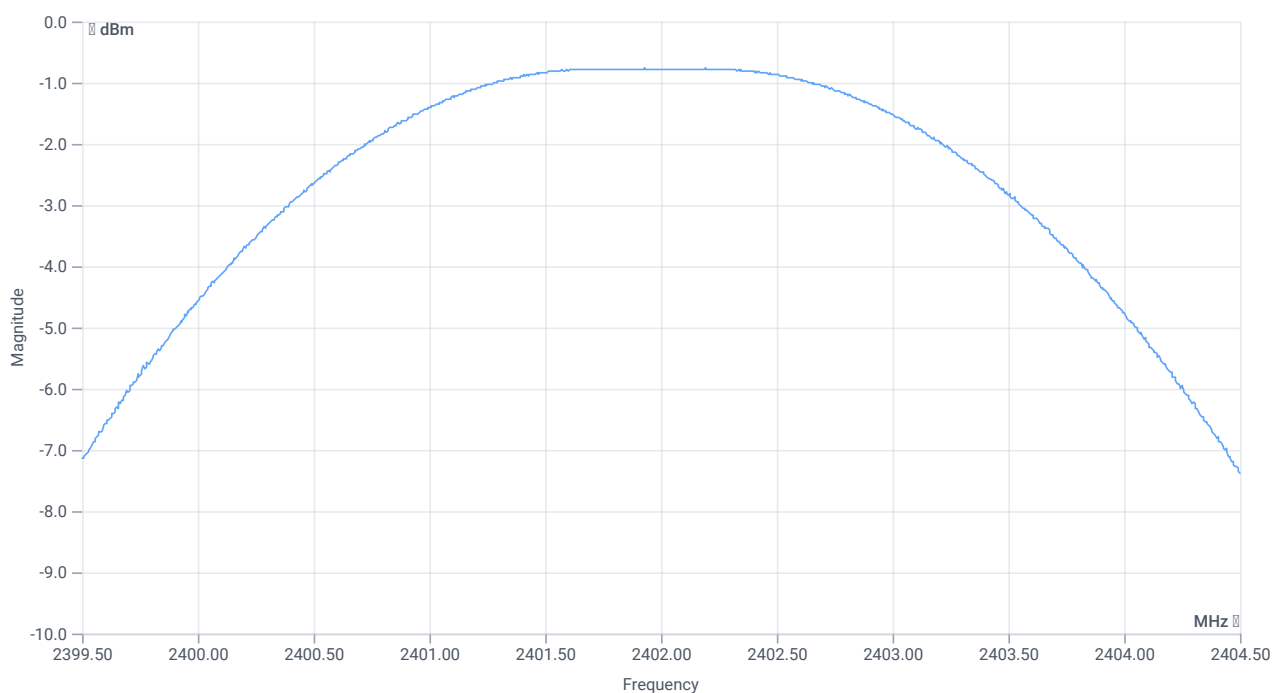
## Test at TX 2402 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -0.69    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2402.300 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.31   8.85   20       |
| Start [MHz]   Stop [MHz]                             | 2399.500   2404.500    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 1000   10   1001   SWE |



Peak output power

### RESULT

| DESCRIPTION       | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power        | ---         | ---         | -0.77    | dBm  | INFO    |
| Peak power        | ---         | ---         | 0.837529 | mW   | INFO    |
| Frequency at peak | ---         | ---         | 2402.19  | MHz  | INFO    |

Verdict

PASS

## NA # Peak output power 3MHz/3MHz ~ BT LE 1 Msps

### References

|                                               |                                  |
|-----------------------------------------------|----------------------------------|
| TC start                                      | 22.04.2025 10:08:05              |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled        |
| System version                                | 5.1.9.0                          |
| Standard   Version                            | NA   NI                          |
| Method                                        |                                  |
| Description                                   | Peak OP 3MHz/3MHz - BT LE 1 Msps |
| Information                                   |                                  |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | BT LE 1 Msps                              |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 2402                   |
| Frequency mid to test                            | True   Freq [MHz] 2440                    |
| Frequency high to test                           | False   Freq [MHz] 2480                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0.7                                       |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |

## Test Parameter

---

Switch bits

00010001:00010001:00000000:00000001

---

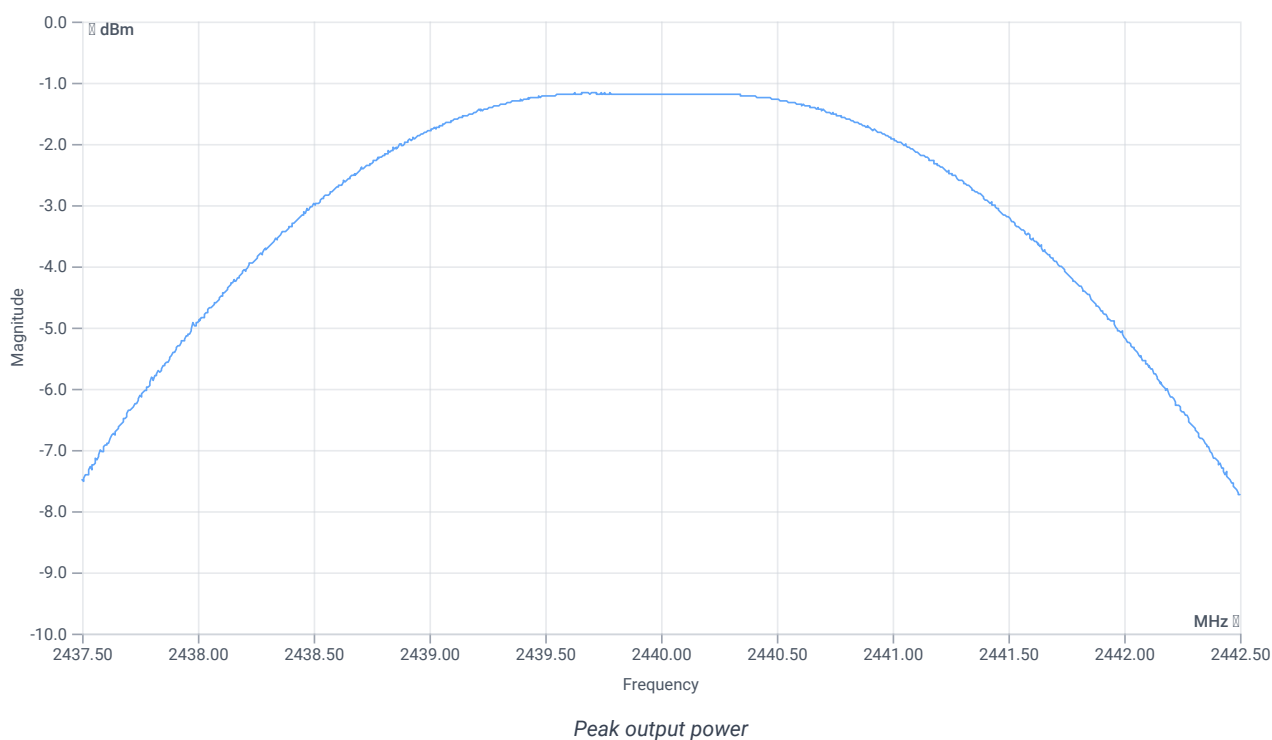
## Test at TX 2440 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.11    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2440.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 8.89   8.94   15       |
| Start [MHz]   Stop [MHz]                             | 2437.500   2442.500    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 1000   10   1001   SWE |



### RESULT

| DESCRIPTION       | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power        | ---         | ---         | -1.17    | dBm  | INFO    |
| Peak power        | ---         | ---         | 0.763836 | mW   | INFO    |
| Frequency at peak | ---         | ---         | 2439.67  | MHz  | INFO    |

Verdict

PASS

## NA # Peak output power 3MHz/3MHz ~ BT LE 1 Msps

### References

|                                               |                                  |
|-----------------------------------------------|----------------------------------|
| TC start                                      | 22.04.2025 10:25:29              |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled        |
| System version                                | 5.1.9.0                          |
| Standard   Version                            | NA   NI                          |
| Method                                        |                                  |
| Description                                   | Peak OP 3MHz/3MHz - BT LE 1 Msps |
| Information                                   |                                  |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | BT LE 1 Msps                              |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 2402                   |
| Frequency mid to test                            | False   Freq [MHz] 2440                   |
| Frequency high to test                           | True   Freq [MHz] 2480                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0.7                                       |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |

## Test Parameter

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|             |                                     |
|-------------|-------------------------------------|
| Switch bits | 00010001:00010001:00000000:00000001 |
|-------------|-------------------------------------|

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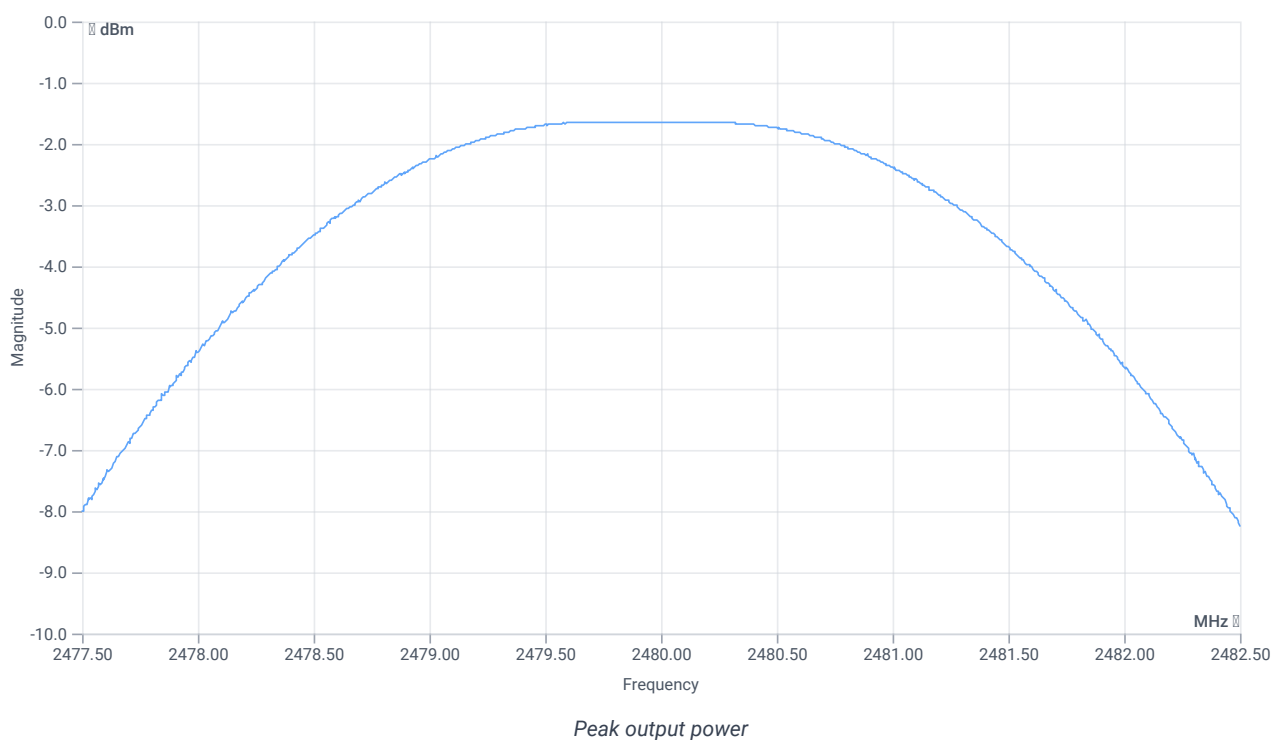
## Test at TX 2480 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.48    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2480.300 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 8.52   9.03   15       |
| Start [MHz]   Stop [MHz]                             | 2477.500   2482.500    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 1000   10   1001   SWE |



### RESULT

| DESCRIPTION       | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power        | ---         | ---         | -1.64    | dBm  | INFO    |
| Peak power        | ---         | ---         | 0.685488 | mW   | INFO    |
| Frequency at peak | ---         | ---         | 2479.955 | MHz  | INFO    |

Verdict

PASS

## FCC 15.247 # Peak psd DTS ~ BT LE 1 Msps

### References

|                                               |                                                                                                            |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|
| TC start                                      | 22.04.2025 09:53:05                                                                                        |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                                                                  |
| System version                                | 5.1.9.0                                                                                                    |
| Standard   Version                            | FCC 15.247   NI                                                                                            |
| Method                                        | DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission |
| Description                                   | FCC 15.247 Peak psd DTS - BT LE 1 Msps                                                                     |
| Information                                   |                                                                                                            |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | True   Freq [MHz] 2402  |
| Frequency mid to test                            | False   Freq [MHz] 2440 |
| Frequency high to test                           | False   Freq [MHz] 2480 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |
| Full path type                                   | EUT_SA_GEN_SIG          |

## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

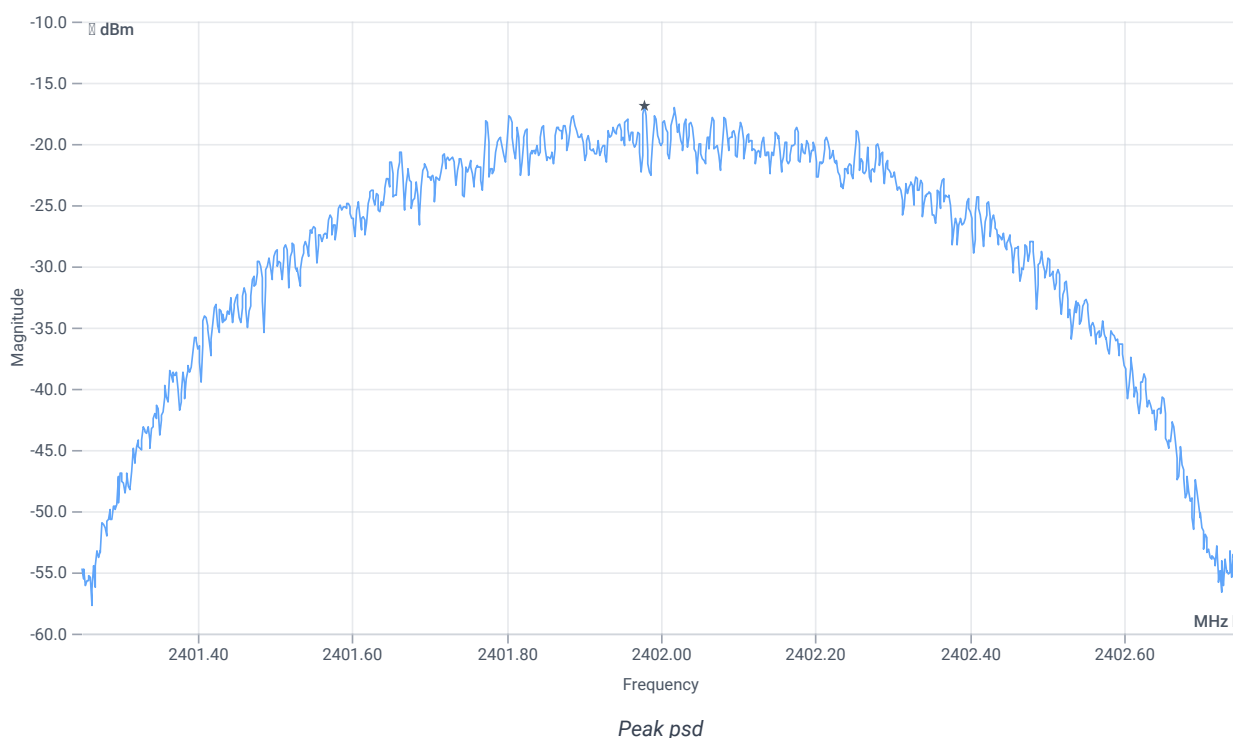
## Test at TX 2402 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -0.73    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2402.300 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 4.27   8.85   15       |
| Start [MHz]   Stop [MHz]                             | 2401.250   2402.750    |
| RBW [MHz]   VBW [MHz]                                | 0.003000   0.010000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 1000   20   1001   SWE |



### RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------|-------------|-------------|----------|----------|---------|
| Peak psd    | ---         | 8           | -16.89   | dBm/3KHz | PASS    |

Verdict

PASS

## FCC 15.247 # Peak psd DTS ~ BT LE 1 Msps

### References

|                                               |                                                                                                            |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|
| TC start                                      | 22.04.2025 10:09:56                                                                                        |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                                                                  |
| System version                                | 5.1.9.0                                                                                                    |
| Standard   Version                            | FCC 15.247   NI                                                                                            |
| Method                                        | DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission |
| Description                                   | FCC 15.247 Peak psd DTS - BT LE 1 Msps                                                                     |
| Information                                   |                                                                                                            |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 2402 |
| Frequency mid to test                            | True   Freq [MHz] 2440  |
| Frequency high to test                           | False   Freq [MHz] 2480 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |
| Full path type                                   | EUT_SA_GEN_SIG          |

## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

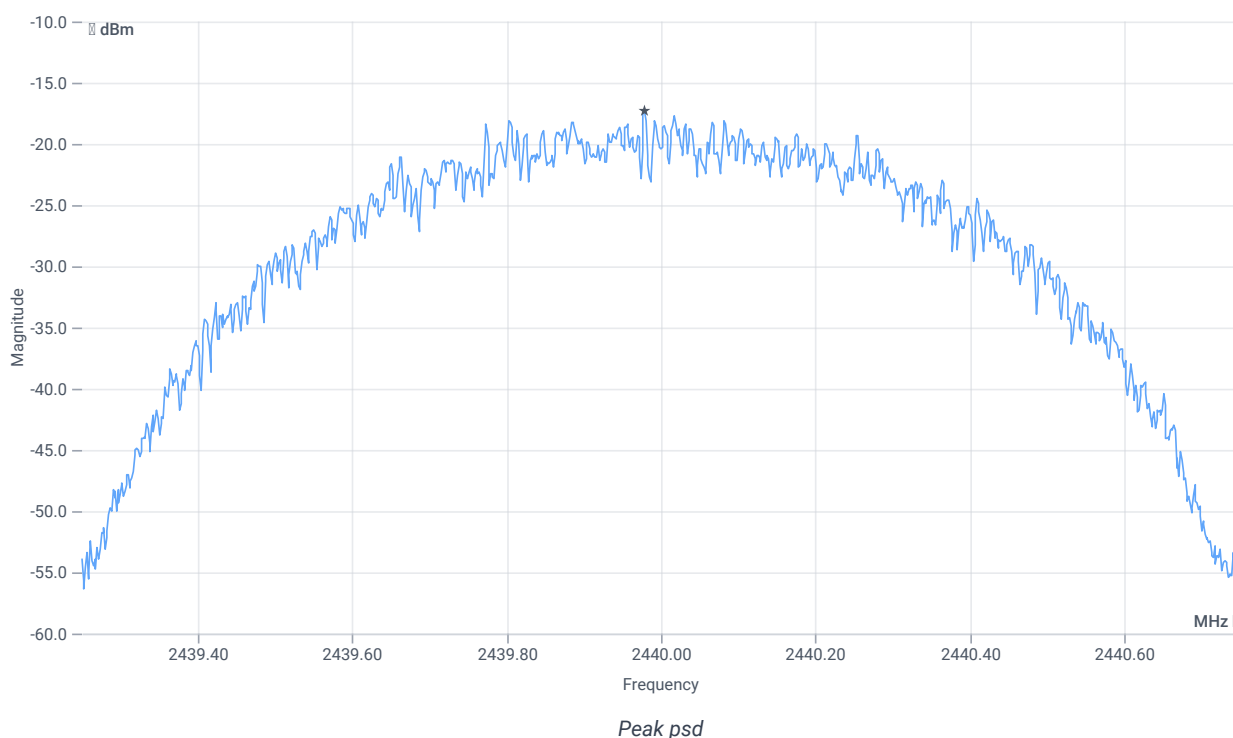
## Test at TX 2440 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.07    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2440.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 3.93   8.94   10       |
| Start [MHz]   Stop [MHz]                             | 2439.250   2440.750    |
| RBW [MHz]   VBW [MHz]                                | 0.003000   0.010000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 1000   20   1001   SWE |



### RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------|-------------|-------------|----------|----------|---------|
| Peak psd    | ---         | 8           | -17.27   | dBm/3KHz | PASS    |

#### Verdict

PASS

## FCC 15.247 # Peak psd DTS ~ BT LE 1 Msps

### References

|                                               |                                                                                                            |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|
| TC start                                      | 22.04.2025 10:27:20                                                                                        |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                                                                  |
| System version                                | 5.1.9.0                                                                                                    |
| Standard   Version                            | FCC 15.247   NI                                                                                            |
| Method                                        | DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission |
| Description                                   | FCC 15.247 Peak psd DTS - BT LE 1 Msps                                                                     |
| Information                                   |                                                                                                            |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 2402 |
| Frequency mid to test                            | False   Freq [MHz] 2440 |
| Frequency high to test                           | True   Freq [MHz] 2480  |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |
| Full path type                                   | EUT_SA_GEN_SIG          |

## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

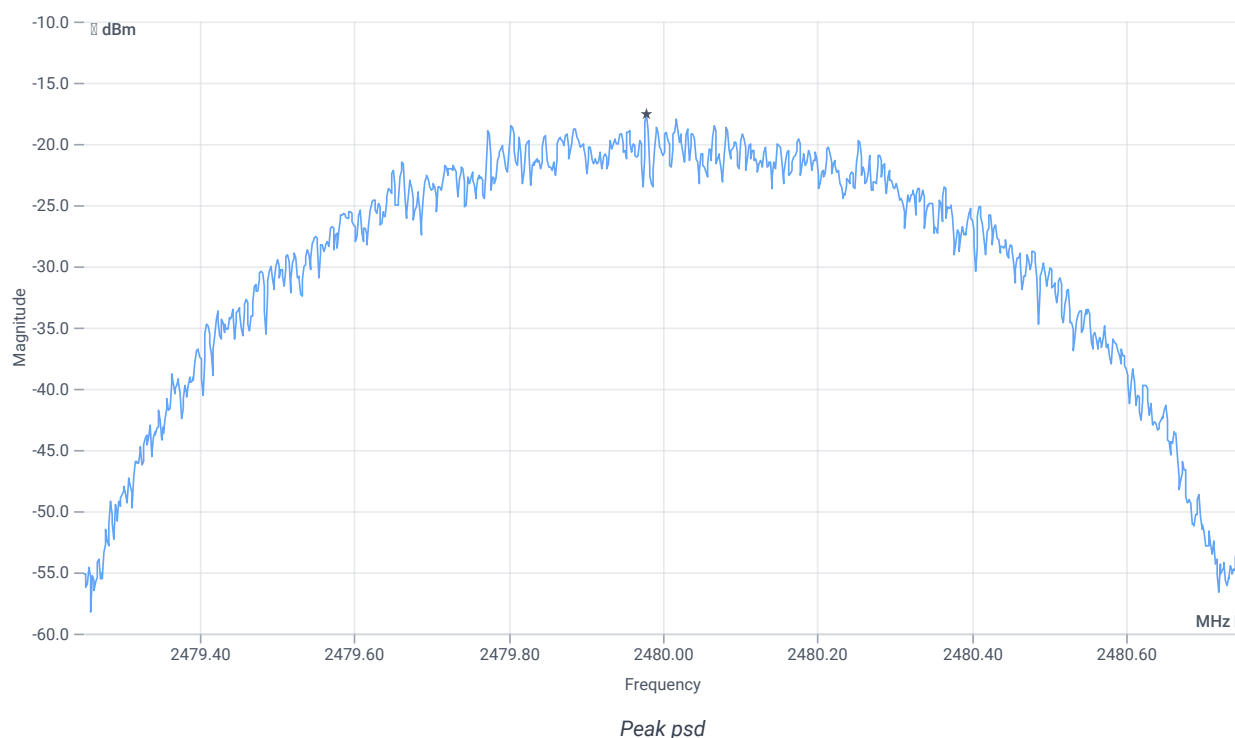
## Test at TX 2480 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.56    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2480.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 3.44   9.03   10       |
| Start [MHz]   Stop [MHz]                             | 2479.250   2480.750    |
| RBW [MHz]   VBW [MHz]                                | 0.003000   0.010000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 1000   20   1001   SWE |



### RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------|-------------|-------------|----------|----------|---------|
| Peak psd    | ---         | 8           | -17.63   | dBm/3KHz | PASS    |

#### Verdict

PASS

## FCC 15.247 # Bandwidth 6dB DTS ~ BT LE 1 Msps

### References

|                                               |                                             |
|-----------------------------------------------|---------------------------------------------|
| TC start                                      | 22.04.2025 09:52:31                         |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                   |
| System version                                | 5.1.9.0                                     |
| Standard   Version                            | FCC 15.247   NI                             |
| Method                                        |                                             |
| Description                                   | FCC 15.247 Bandwidth 6dB DTS - BT LE 1 Msps |
| Information                                   |                                             |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | BT LE 1 Msps                              |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 2402                    |
| Frequency mid to test                            | False   Freq [MHz] 2440                   |
| Frequency high to test                           | False   Freq [MHz] 2480                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0.7                                       |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |

## Test Parameter

---

|             |                                     |
|-------------|-------------------------------------|
| Switch bits | 00010001:00010001:00000000:00000001 |
|-------------|-------------------------------------|

---

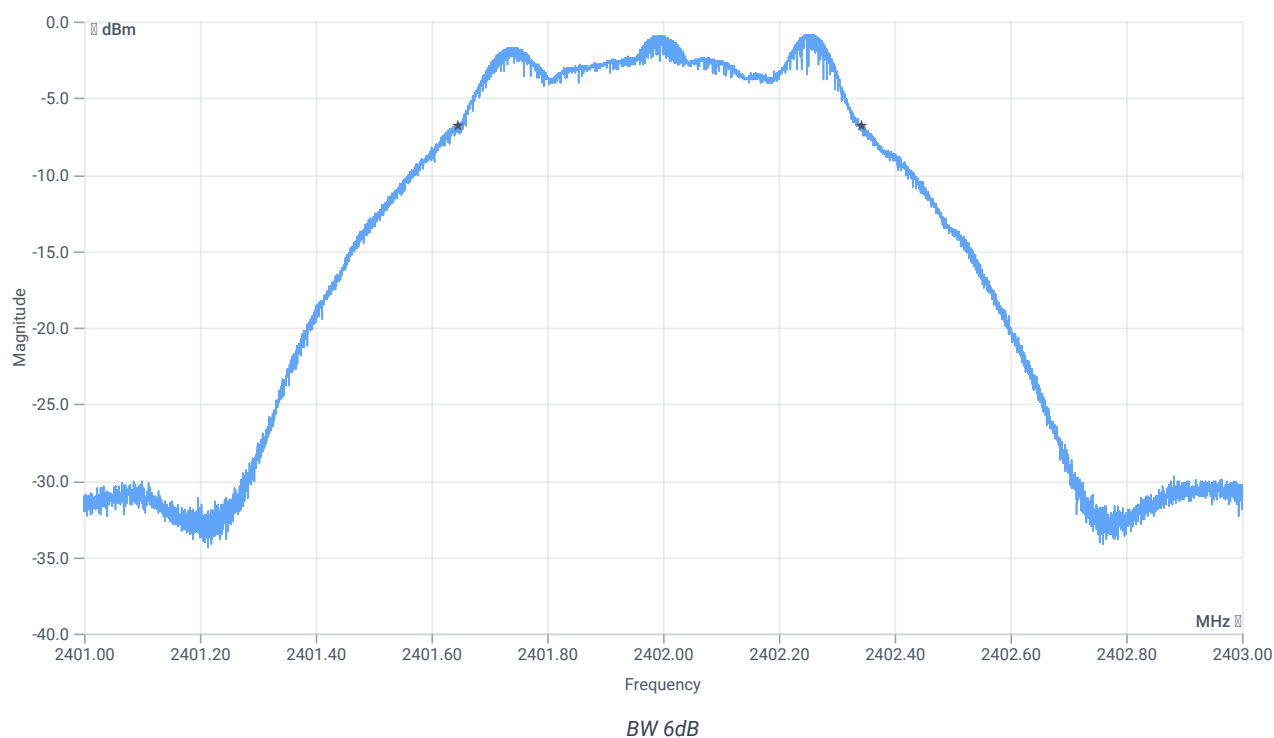
## Test at TX 2402 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -0.73    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2402.300 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 4.27   8.85   15       |
| Start [MHz]   Stop [MHz]                             | 2401.000   2403.000    |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 50   200   10001   SWE |



### RESULT

| DESCRIPTION         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500         | ---         | 697      | kHz  | PASS    |

Verdict

PASS

## FCC 15.247 # Bandwidth 6dB DTS ~ BT LE 1 Msps

### References

|                                               |                                             |
|-----------------------------------------------|---------------------------------------------|
| TC start                                      | 22.04.2025 10:09:23                         |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                   |
| System version                                | 5.1.9.0                                     |
| Standard   Version                            | FCC 15.247   NI                             |
| Method                                        |                                             |
| Description                                   | FCC 15.247 Bandwidth 6dB DTS - BT LE 1 Msps |
| Information                                   |                                             |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | BT LE 1 Msps                              |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 2402                   |
| Frequency mid to test                            | True   Freq [MHz] 2440                    |
| Frequency high to test                           | False   Freq [MHz] 2480                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0.7                                       |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |

## Test Parameter

---

Switch bits

00010001:00010001:00000000:00000001

---

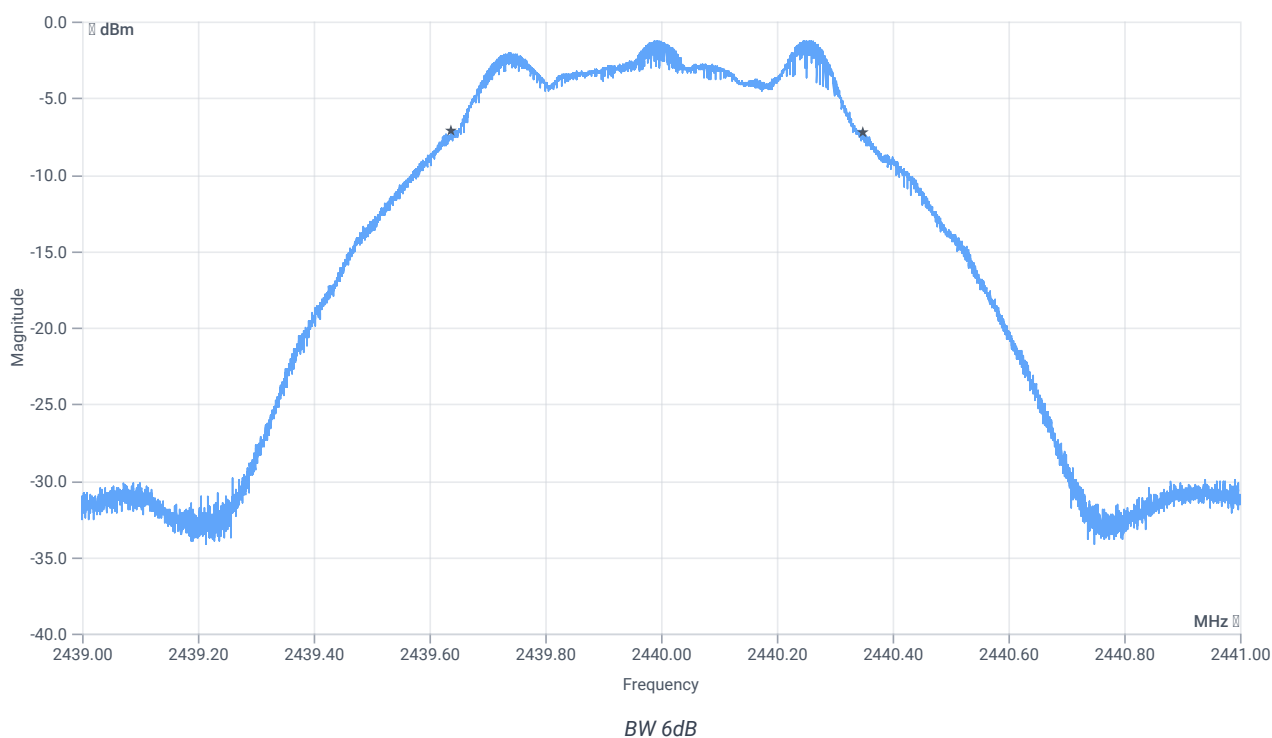
## Test at TX 2440 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.10    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2440.300 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 3.90   8.94   10       |
| Start [MHz]   Stop [MHz]                             | 2439.000   2441.000    |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 50   200   10001   SWE |



### RESULT

| DESCRIPTION         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500         | ---         | 712      | kHz  | PASS    |

#### Verdict

PASS

## FCC 15.247 # Bandwidth 6dB DTS ~ BT LE 1 Msps

### References

|                                               |                                             |
|-----------------------------------------------|---------------------------------------------|
| TC start                                      | 22.04.2025 10:26:47                         |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                   |
| System version                                | 5.1.9.0                                     |
| Standard   Version                            | FCC 15.247   NI                             |
| Method                                        |                                             |
| Description                                   | FCC 15.247 Bandwidth 6dB DTS - BT LE 1 Msps |
| Information                                   |                                             |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | BT LE 1 Msps                              |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 2402                   |
| Frequency mid to test                            | False   Freq [MHz] 2440                   |
| Frequency high to test                           | True   Freq [MHz] 2480                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0.7                                       |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |

## Test Parameter

---

Switch bits

00010001:00010001:00000000:00000001

---

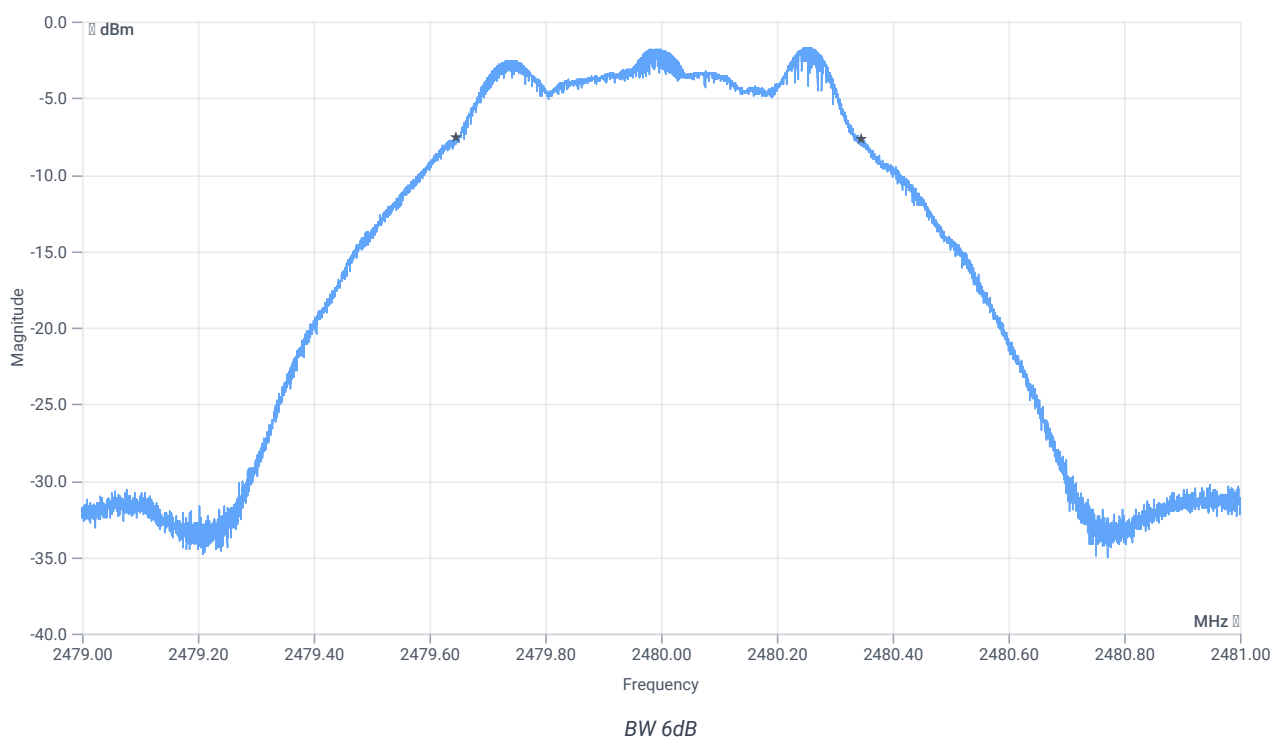
## Test at TX 2480 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.56    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2480.300 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 3.44   9.03   10       |
| Start [MHz]   Stop [MHz]                             | 2479.000   2481.000    |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 50   200   10001   SWE |



### RESULT

| DESCRIPTION         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500         | ---         | 700      | kHz  | PASS    |

#### Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT LE 1 Msps

## References

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| TC start                                      | 22.04.2025 09:53:47                                |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                          |
| System version                                | 5.1.9.0                                            |
| Standard   Version                            | FCC 15.247, ISED RSS247   NI                       |
| Method                                        |                                                    |
| Description                                   | FCC 15.247 Bandwidth 99PCT-20dB DTS - BT LE 1 Msps |
| Information                                   |                                                    |

## EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

## Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | True   Freq [MHz] 2402  |
| Frequency mid to test                            | False   Freq [MHz] 2440 |
| Frequency high to test                           | False   Freq [MHz] 2480 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |
| Full path type                                   | EUT_SA_GEN_SIG          |

## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

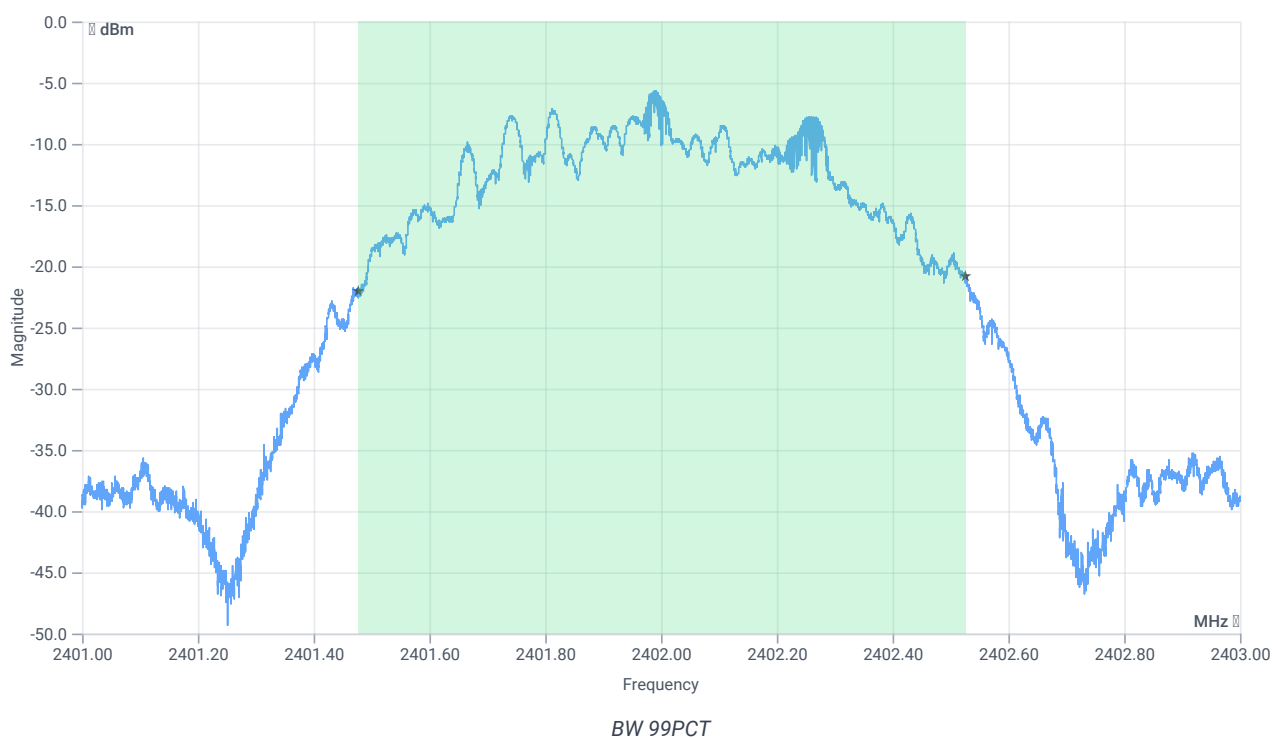
## Test at TX 2402 MHz

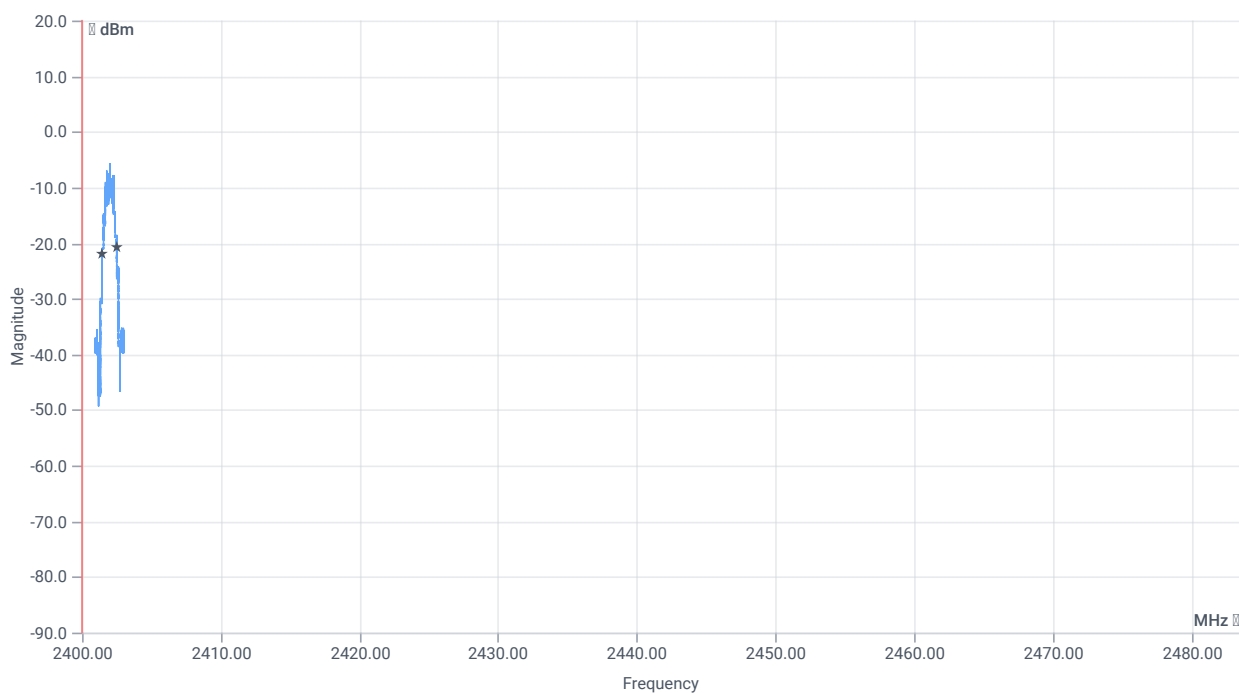
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -0.73    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2402.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 4.27   8.85   15       |
| Start [MHz]   Stop [MHz]                             | 2401.000   2403.000    |
| RBW [MHz]   VBW [MHz]                                | 0.020000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 50   200   10001   SWE |

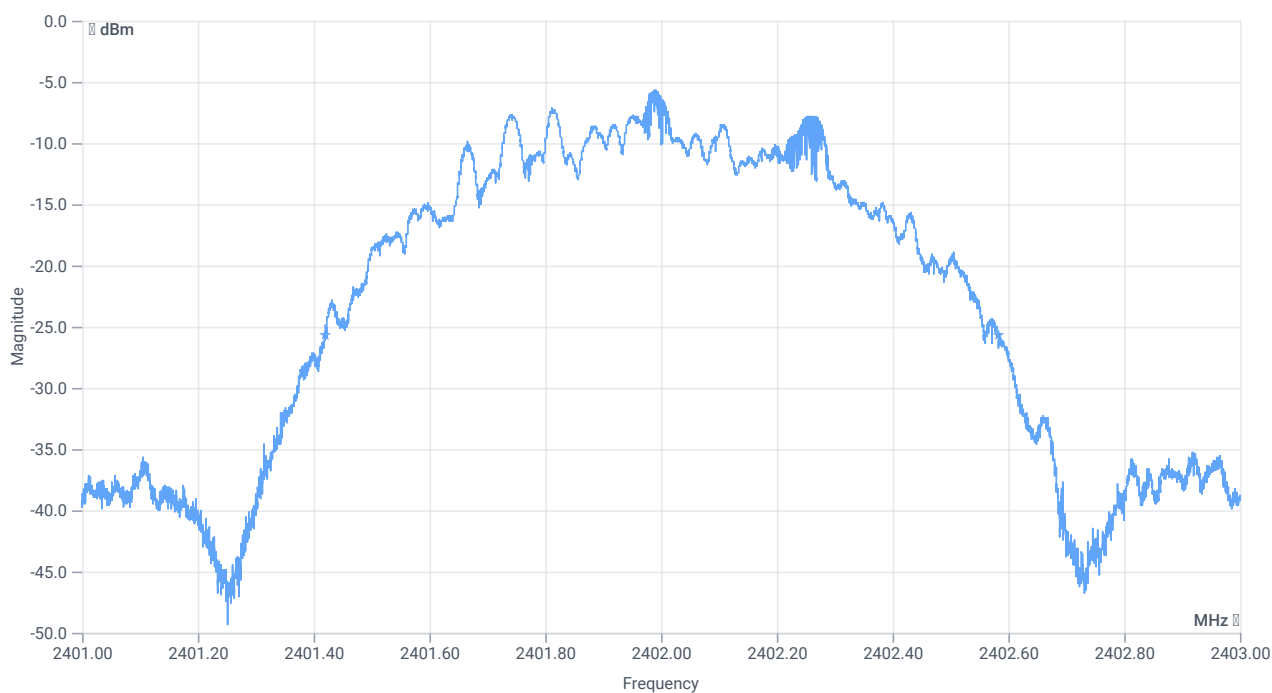




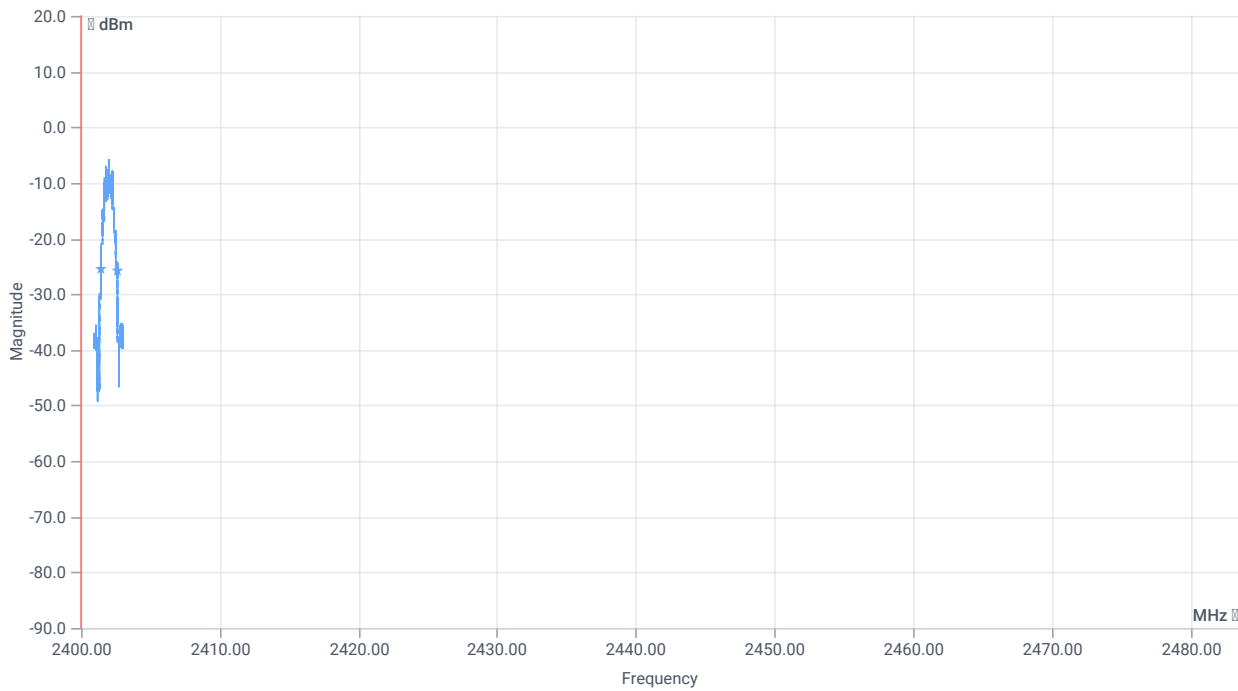
*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 1047.000  | kHz  | INFO    |
| T1 99%        | 2400.000000 | ---         | 2401.4777 | MHz  | PASS    |
| T2 99%        | ---         | 2483.500000 | 2402.5251 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 1162      | kHz  | INFO    |
| T1 20dB        | 2400.000000 | ---         | 2401.4192 | MHz  | PASS    |
| T2 20dB        | ---         | 2483.500000 | 2402.5816 | MHz  | PASS    |

Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT LE 1 Msps

## References

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| TC start                                      | 22.04.2025 10:10:38                                |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                          |
| System version                                | 5.1.9.0                                            |
| Standard   Version                            | FCC 15.247, ISED RSS247   NI                       |
| Method                                        |                                                    |
| Description                                   | FCC 15.247 Bandwidth 99PCT-20dB DTS - BT LE 1 Msps |
| Information                                   |                                                    |

## EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

## Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 2402 |
| Frequency mid to test                            | True   Freq [MHz] 2440  |
| Frequency high to test                           | False   Freq [MHz] 2480 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |
| Full path type                                   | EUT_SA_GEN_SIG          |

## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

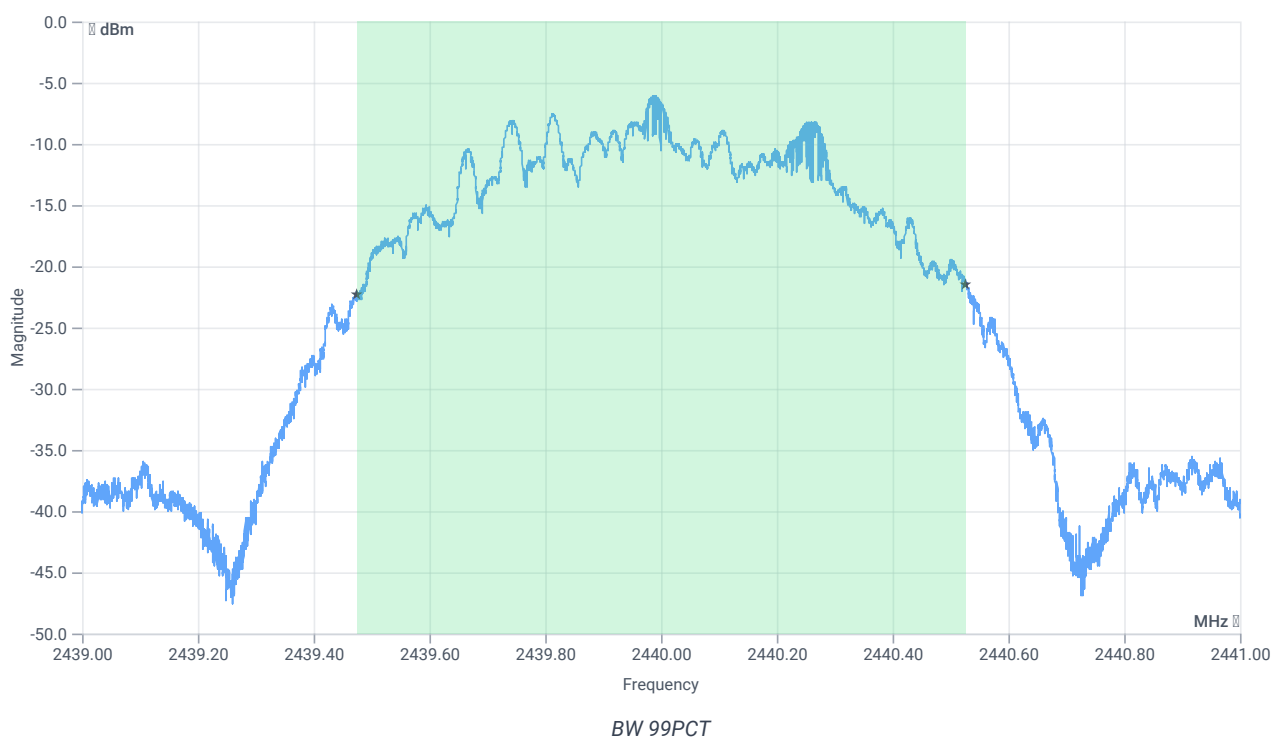
## Test at TX 2440 MHz

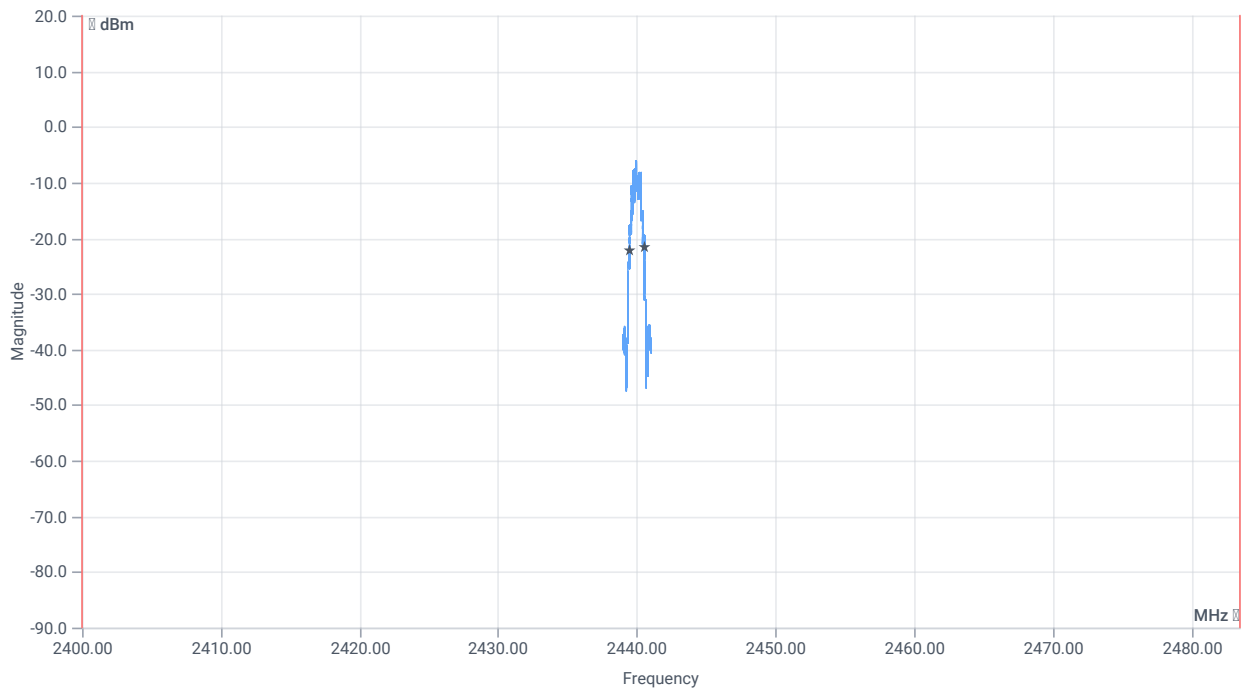
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.12    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2440.300 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 3.88   8.94   10       |
| Start [MHz]   Stop [MHz]                             | 2439.000   2441.000    |
| RBW [MHz]   VBW [MHz]                                | 0.020000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 50   200   10001   SWE |

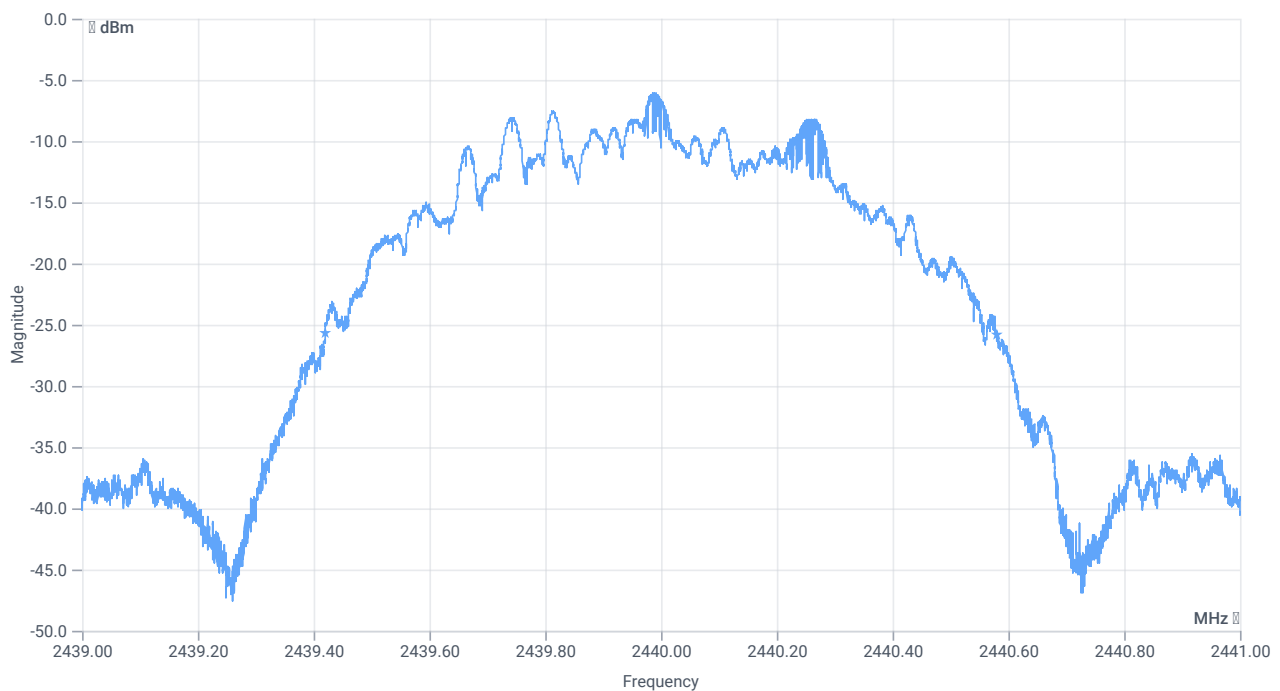




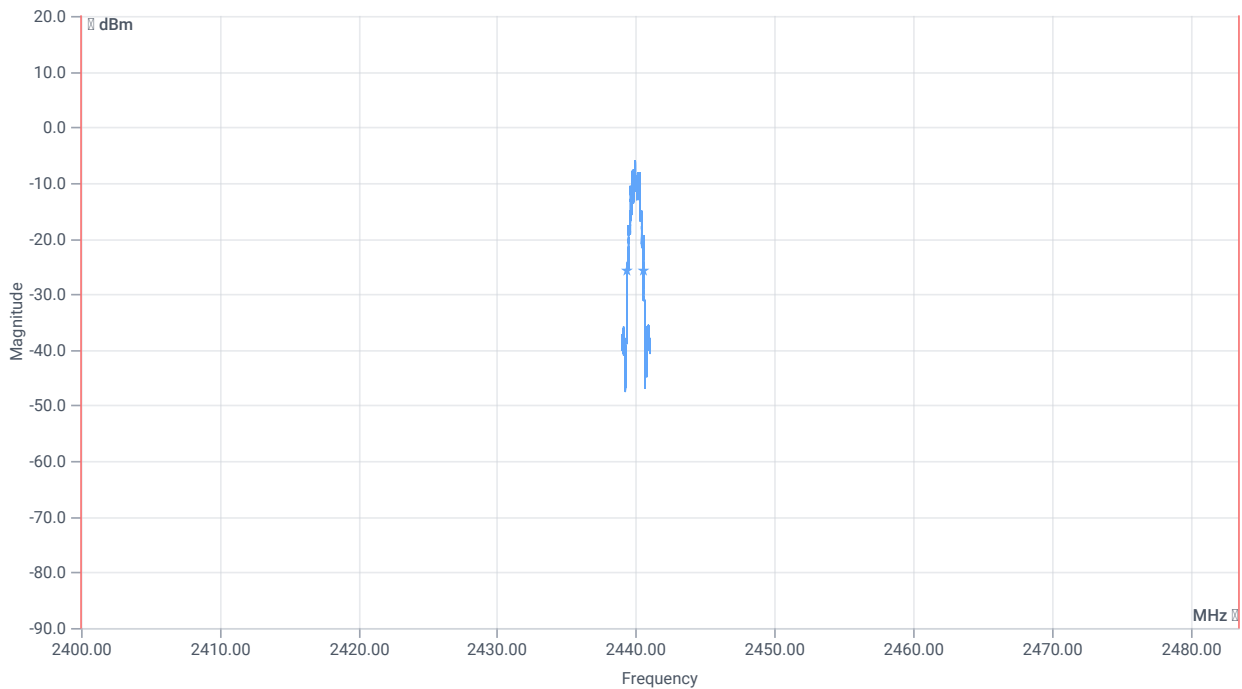
*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 1051.000  | kHz  | INFO    |
| T1 99%        | 2400.000000 | ---         | 2439.4753 | MHz  | PASS    |
| T2 99%        | ---         | 2483.500000 | 2440.5267 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 1161      | kHz  | INFO    |
| T1 20dB        | 2400.000000 | ---         | 2439.4200 | MHz  | PASS    |
| T2 20dB        | ---         | 2483.500000 | 2440.5812 | MHz  | PASS    |

Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT LE 1 Msps

## References

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| TC start                                      | 22.04.2025 10:28:02                                |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                          |
| System version                                | 5.1.9.0                                            |
| Standard   Version                            | FCC 15.247, ISED RSS247   NI                       |
| Method                                        |                                                    |
| Description                                   | FCC 15.247 Bandwidth 99PCT-20dB DTS - BT LE 1 Msps |
| Information                                   |                                                    |

## EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

## Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 2402 |
| Frequency mid to test                            | False   Freq [MHz] 2440 |
| Frequency high to test                           | True   Freq [MHz] 2480  |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |
| Full path type                                   | EUT_SA_GEN_SIG          |

## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

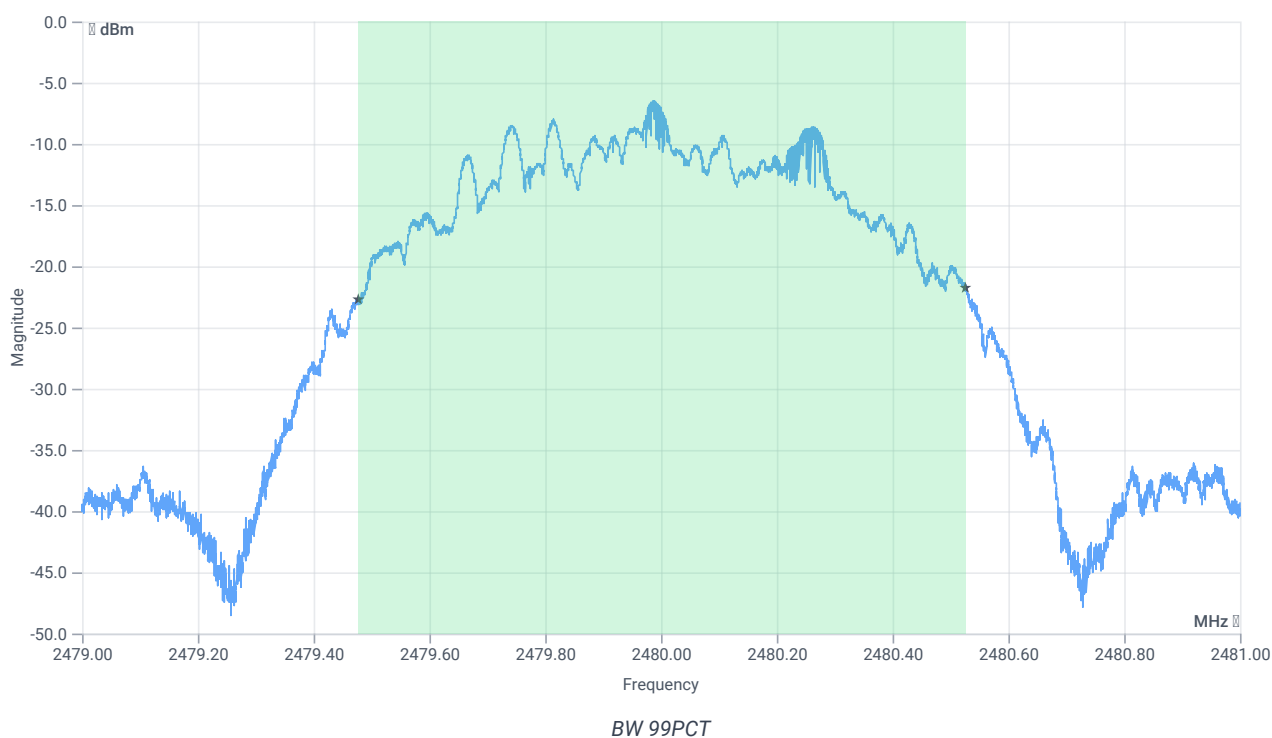
## Test at TX 2480 MHz

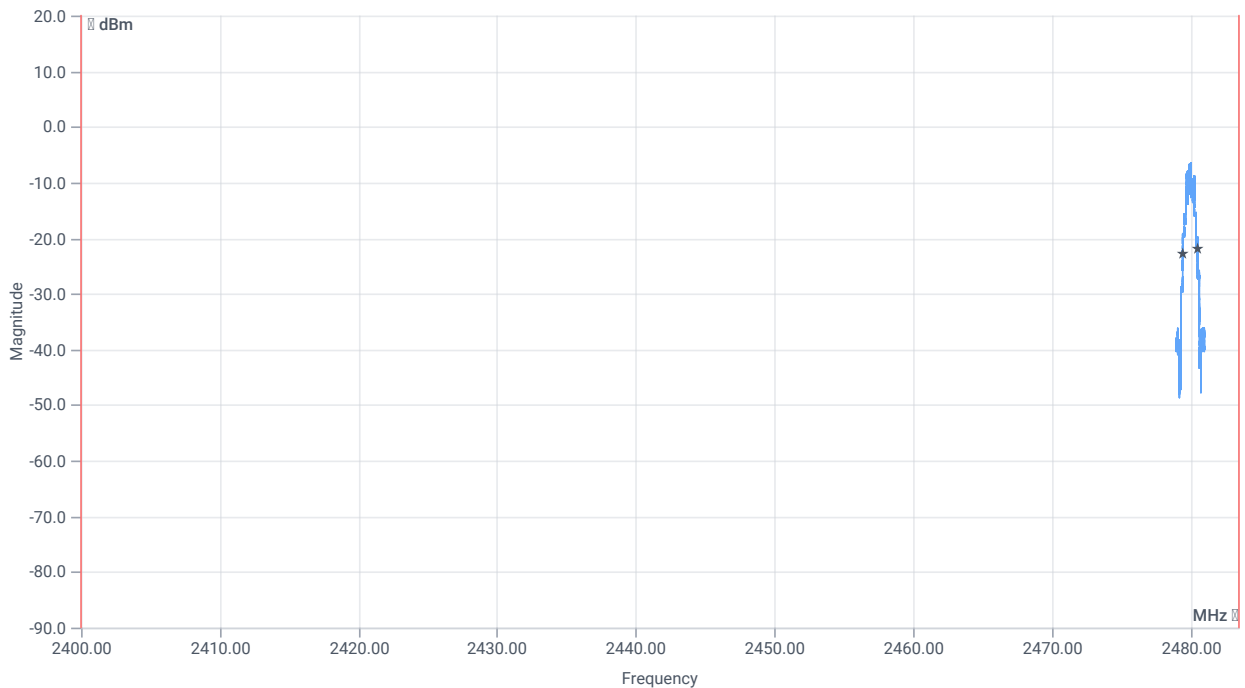
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.54    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2480.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 3.46   9.03   10       |
| Start [MHz]   Stop [MHz]                             | 2479.000   2481.000    |
| RBW [MHz]   VBW [MHz]                                | 0.020000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 50   200   10001   SWE |

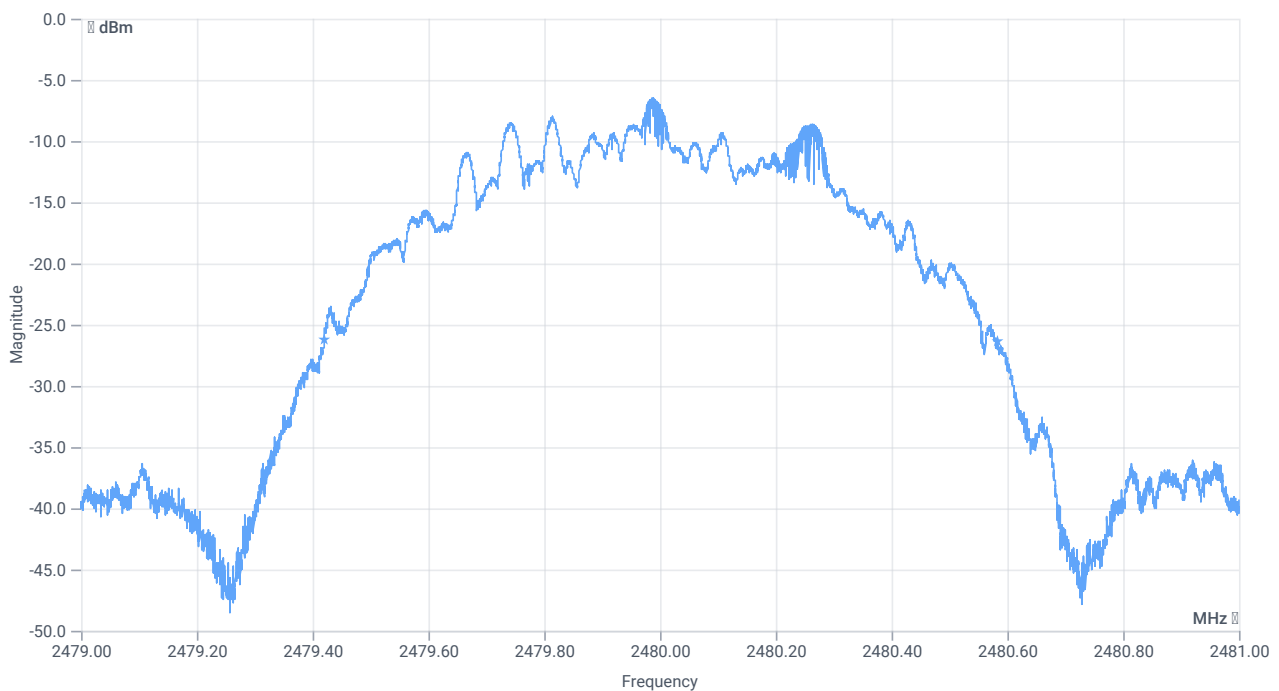




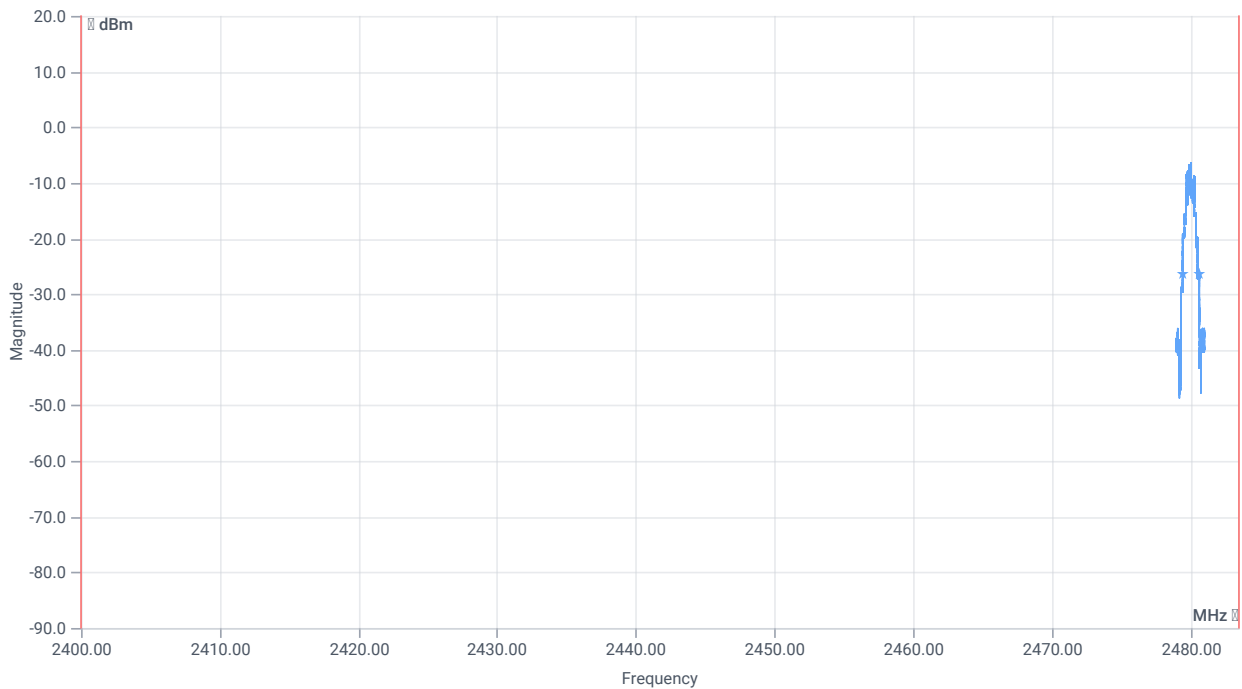
*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 1049.000  | kHz  | INFO    |
| T1 99%        | 2400.000000 | ---         | 2479.4763 | MHz  | PASS    |
| T2 99%        | ---         | 2483.500000 | 2480.5257 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 1163      | kHz  | INFO    |
| T1 20dB        | 2400.000000 | ---         | 2479.4190 | MHz  | PASS    |
| T2 20dB        | ---         | 2483.500000 | 2480.5820 | MHz  | PASS    |

Verdict

PASS

# FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 1 Msps

## References

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| TC start                                      | 22.04.2025 09:51:45                                               |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                         |
| System version                                | 5.1.9.0                                                           |
| Standard   Version                            | FCC 15.247   NI                                                   |
| Method                                        | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth     |
| Description                                   | FCC 15.247 Maximum peak output power conducted DTS - BT LE 1 Msps |
| Information                                   |                                                                   |

## EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

## Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | True   Freq [MHz] 2402  |
| Frequency mid to test                            | False   Freq [MHz] 2440 |
| Frequency high to test                           | False   Freq [MHz] 2480 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |

## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path type | EUT_SA_GEN_SIG                            |
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

## Test at TX 2402 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -0.73    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2402.300 | MHz  | INFO    |

### READ SA SETTINGS:

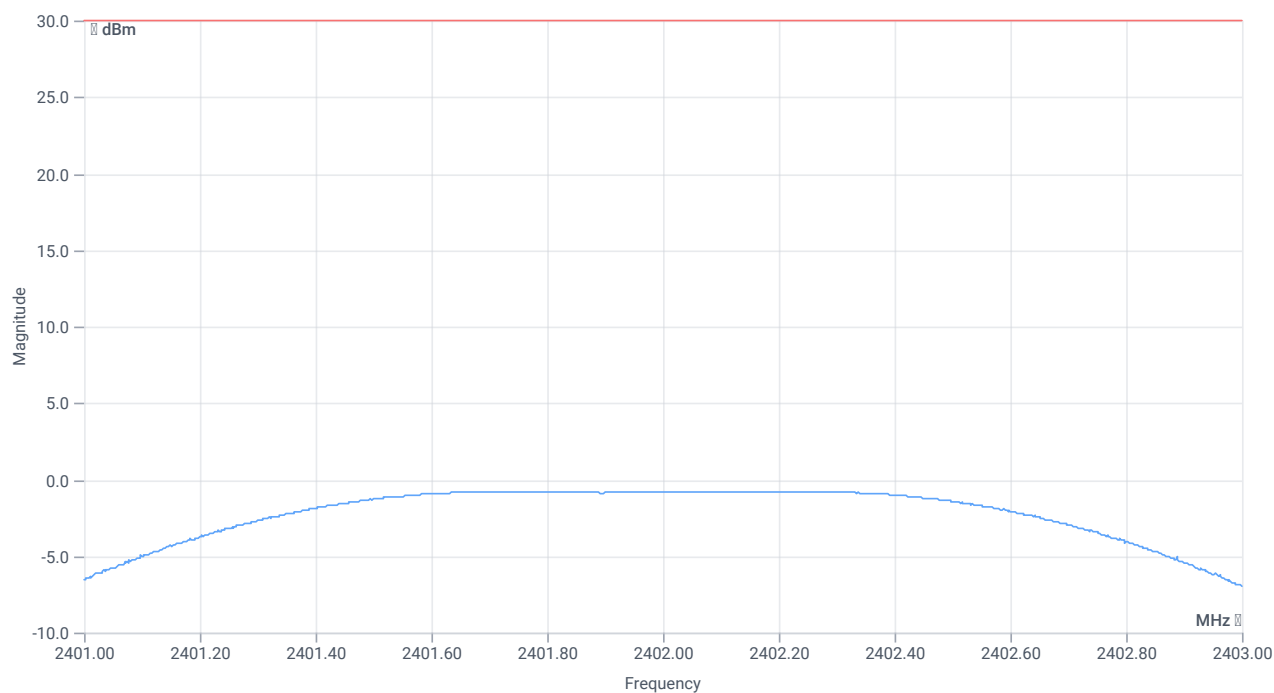
|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 4.27   8.85   15       |
| Start [MHz]   Stop [MHz]                             | 2401.000   2403.000    |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 50   200   10001   SWE |

### DTS bandwidth

| DESCRIPTION         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | ---         | ---         | 695      | kHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.27   8.85   20      |
| Start [MHz]   Stop [MHz]                             | 2401.000   2403.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 50   200   1001   SWE |



Peak output power

## RESULT

| DESCRIPTION       | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power        | ---         | 30.00       | -0.79    | dBm  | PASS    |
| Peak power        | ---         | 1000        | 0.833681 | mW   | PASS    |
| Frequency at peak | ---         | ---         | 2402.224 | MHz  | INFO    |

## Verdict

PASS

# FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 1 Msps

## References

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| TC start                                      | 22.04.2025 10:08:37                                               |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                         |
| System version                                | 5.1.9.0                                                           |
| Standard   Version                            | FCC 15.247   NI                                                   |
| Method                                        | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth     |
| Description                                   | FCC 15.247 Maximum peak output power conducted DTS - BT LE 1 Msps |
| Information                                   |                                                                   |

## EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

## Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 2402 |
| Frequency mid to test                            | True   Freq [MHz] 2440  |
| Frequency high to test                           | False   Freq [MHz] 2480 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |

## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path type | EUT_SA_GEN_SIG                            |
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

## Test at TX 2440 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.10    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2440.300 | MHz  | INFO    |

### READ SA SETTINGS:

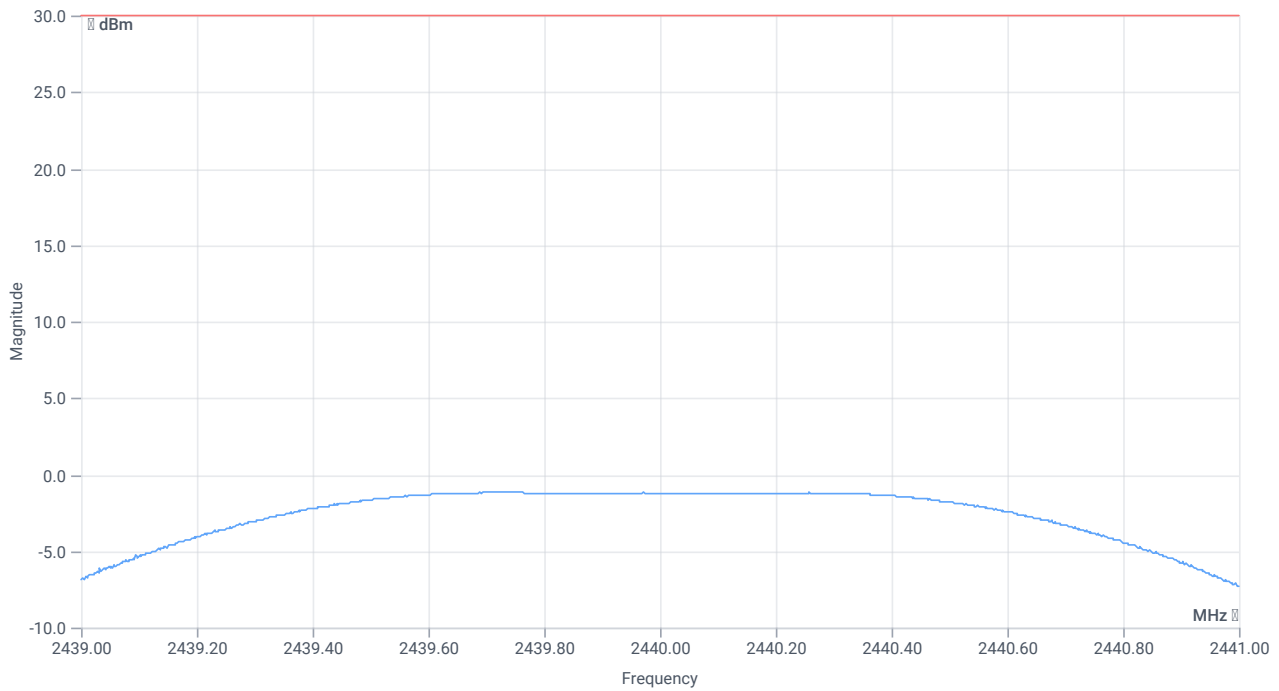
|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 3.90   8.94   10       |
| Start [MHz]   Stop [MHz]                             | 2439.000   2441.000    |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 50   200   10001   SWE |

### DTS bandwidth

| DESCRIPTION         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | ---         | ---         | 702      | kHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 8.90   8.94   15      |
| Start [MHz]   Stop [MHz]                             | 2439.000   2441.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 50   200   1001   SWE |



Peak output power

## RESULT

| DESCRIPTION       | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power        | ---         | 30.00       | -1.18    | dBm  | PASS    |
| Peak power        | ---         | 1000        | 0.762079 | mW   | PASS    |
| Frequency at peak | ---         | ---         | 2439.722 | MHz  | INFO    |

Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 1 Msps

### References

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| TC start                                      | 22.04.2025 10:26:01                                               |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                         |
| System version                                | 5.1.9.0                                                           |
| Standard   Version                            | FCC 15.247   NI                                                   |
| Method                                        | DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth     |
| Description                                   | FCC 15.247 Maximum peak output power conducted DTS - BT LE 1 Msps |
| Information                                   |                                                                   |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 2402 |
| Frequency mid to test                            | False   Freq [MHz] 2440 |
| Frequency high to test                           | True   Freq [MHz] 2480  |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |

## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path type | EUT_SA_GEN_SIG                            |
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

## Test at TX 2480 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.54    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2480.300 | MHz  | INFO    |

### READ SA SETTINGS:

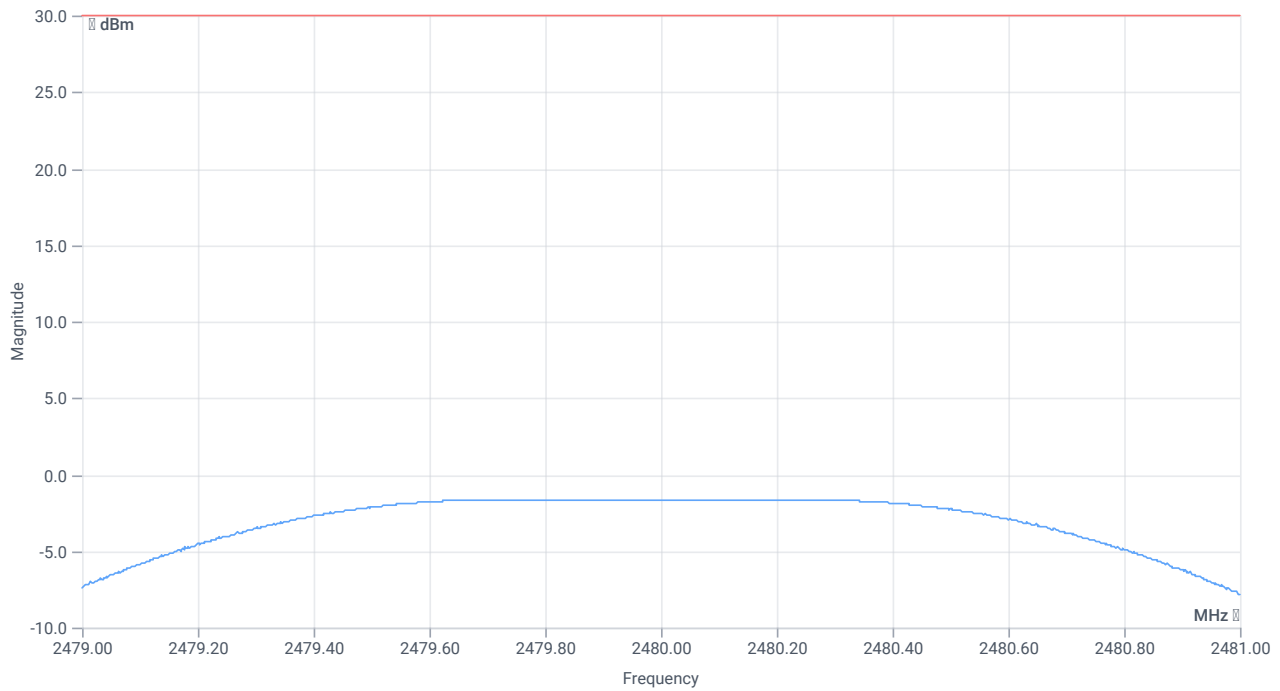
|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 3.46   9.03   10       |
| Start [MHz]   Stop [MHz]                             | 2479.000   2481.000    |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 50   200   10001   SWE |

### DTS bandwidth

| DESCRIPTION         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | ---         | ---         | 709      | kHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 8.46   9.03   15      |
| Start [MHz]   Stop [MHz]                             | 2479.000   2481.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 50   200   1001   SWE |



Peak output power

## RESULT

| DESCRIPTION       | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power        | ---         | 30.00       | -1.65    | dBm  | PASS    |
| Peak power        | ---         | 1000        | 0.683912 | mW   | PASS    |
| Frequency at peak | ---         | ---         | 2479.704 | MHz  | INFO    |

## Verdict

PASS

## FCC 15.247 # TX spurious conducted 20dBc ~ BT LE 1 Msps

### References

|                                               |                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| TC start                                      | 22.04.2025 09:54:28                                                                                              |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                                                                        |
| System version                                | 5.1.9.0                                                                                                          |
| Standard   Version                            | FCC 15.247   NI                                                                                                  |
| Method                                        | IF DTS then 8.5 DTS emissions in non-restricted frequency bands:<br>Subclause 11.11 of ANSI C63.10 is applicable |
| Description                                   | FCC 15.247 TX emissions conducted DTS - BT LE 1 Msps                                                             |
| Information                                   |                                                                                                                  |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | True   Freq [MHz] 2402  |
| Frequency mid to test                            | False   Freq [MHz] 2440 |
| Frequency high to test                           | False   Freq [MHz] 2480 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |
| Full path type                                   | EUT_SA_GEN_SIG          |

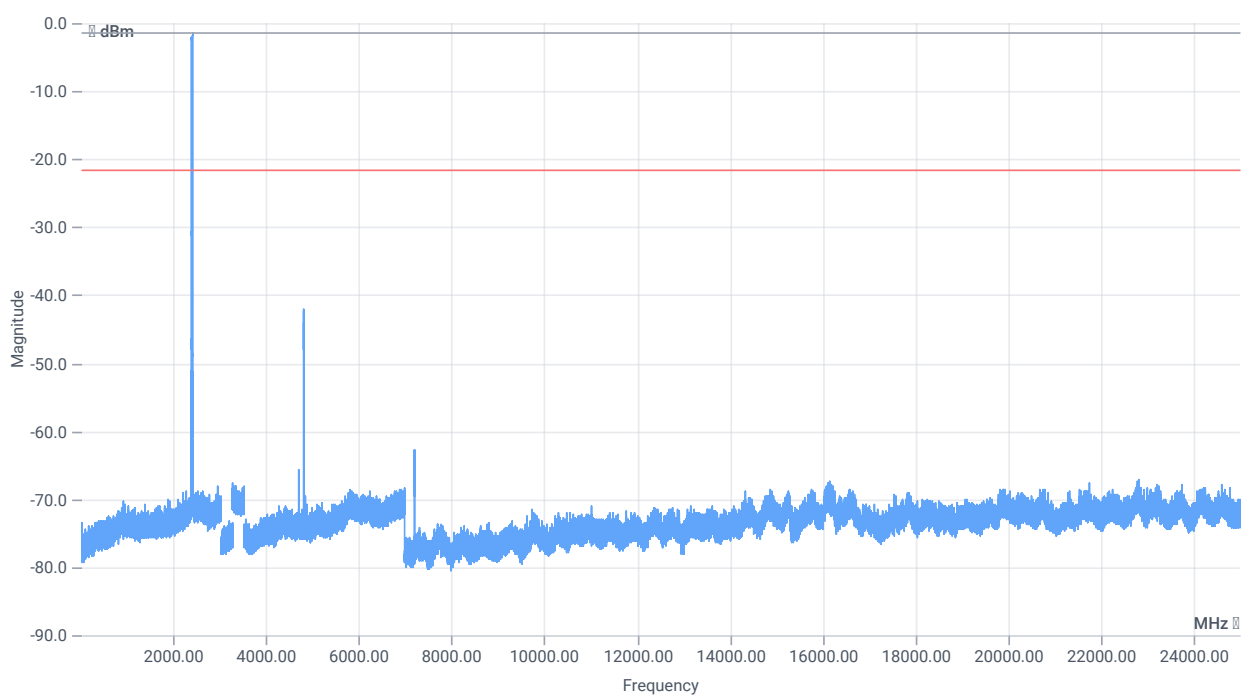
## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

## Test at TX 2402 MHz

RESULT: Reference power cond.

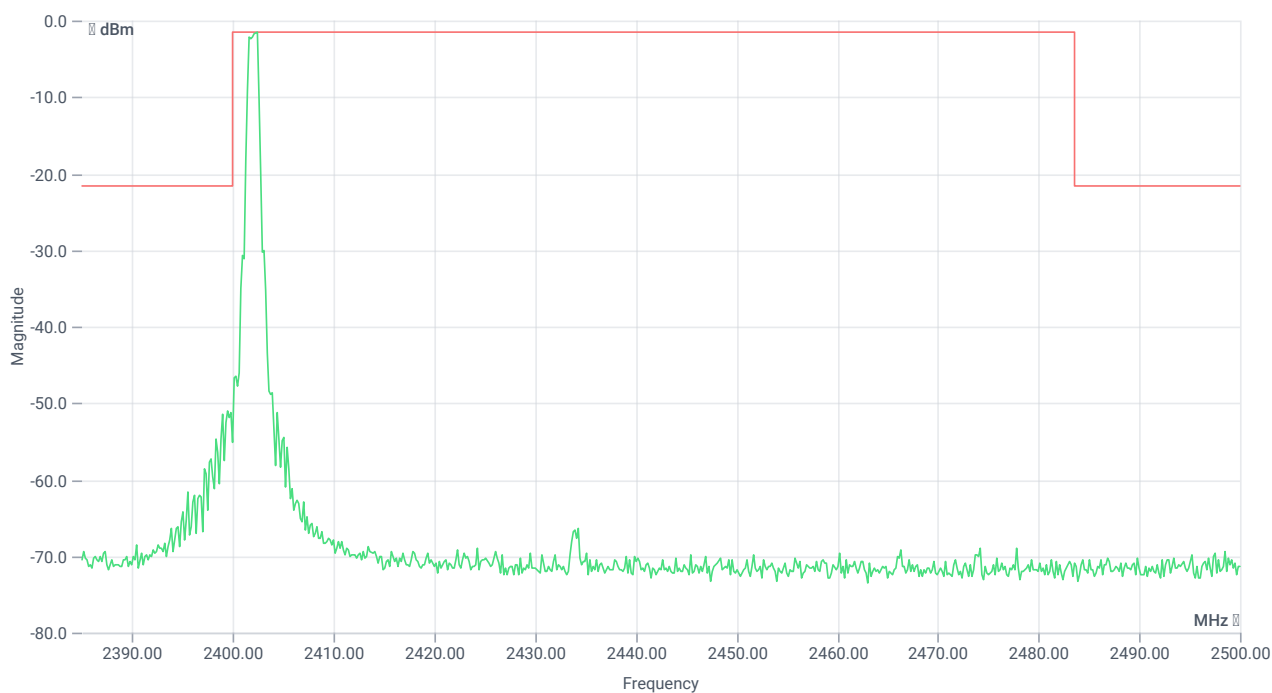
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -0.75    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2402.300 | MHz  | INFO    |



TX emissions

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -0.75   17.03   0     |
| Start [MHz]   Stop [MHz]                             | 24780.000   25000.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 200   25   1501   SWE |



TX emissions band zoomed

## RESULT

| DESCRIPTION                       | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2402.33 MHz           | ---         | ---         | -1.54    | dBm  | INFO    |
| No peaks detected                 | ---         | ---         |          |      | PASS    |
| Lowest margin to limit 4804.5 MHz | 0           | ---         | 20.56    | dB   | INFO    |

Verdict

PASS

## FCC 15.247 # TX spurious conducted 20dBc ~ BT LE 1 Msps

### References

|                                               |                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| TC start                                      | 22.04.2025 10:11:19                                                                                              |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                                                                        |
| System version                                | 5.1.9.0                                                                                                          |
| Standard   Version                            | FCC 15.247   NI                                                                                                  |
| Method                                        | IF DTS then 8.5 DTS emissions in non-restricted frequency bands:<br>Subclause 11.11 of ANSI C63.10 is applicable |
| Description                                   | FCC 15.247 TX emissions conducted DTS - BT LE 1 Msps                                                             |
| Information                                   |                                                                                                                  |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 2402 |
| Frequency mid to test                            | True   Freq [MHz] 2440  |
| Frequency high to test                           | False   Freq [MHz] 2480 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |
| Full path type                                   | EUT_SA_GEN_SIG          |

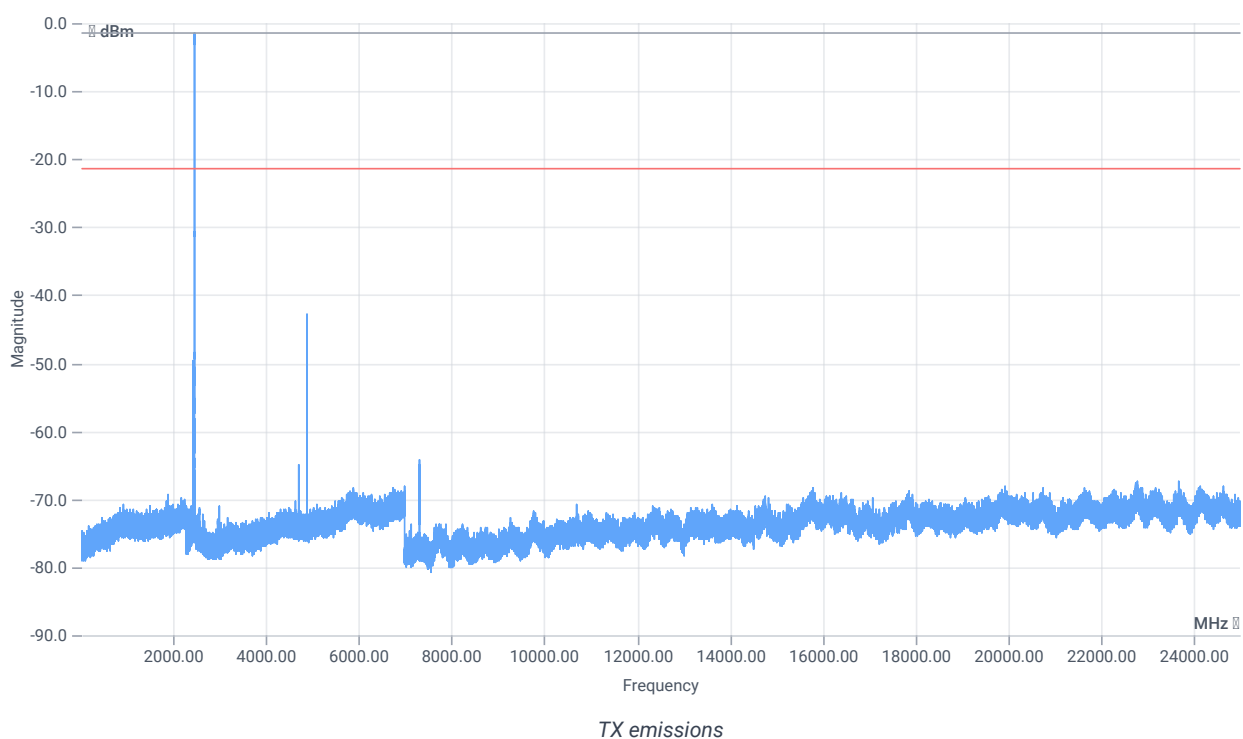
## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

## Test at TX 2440 MHz

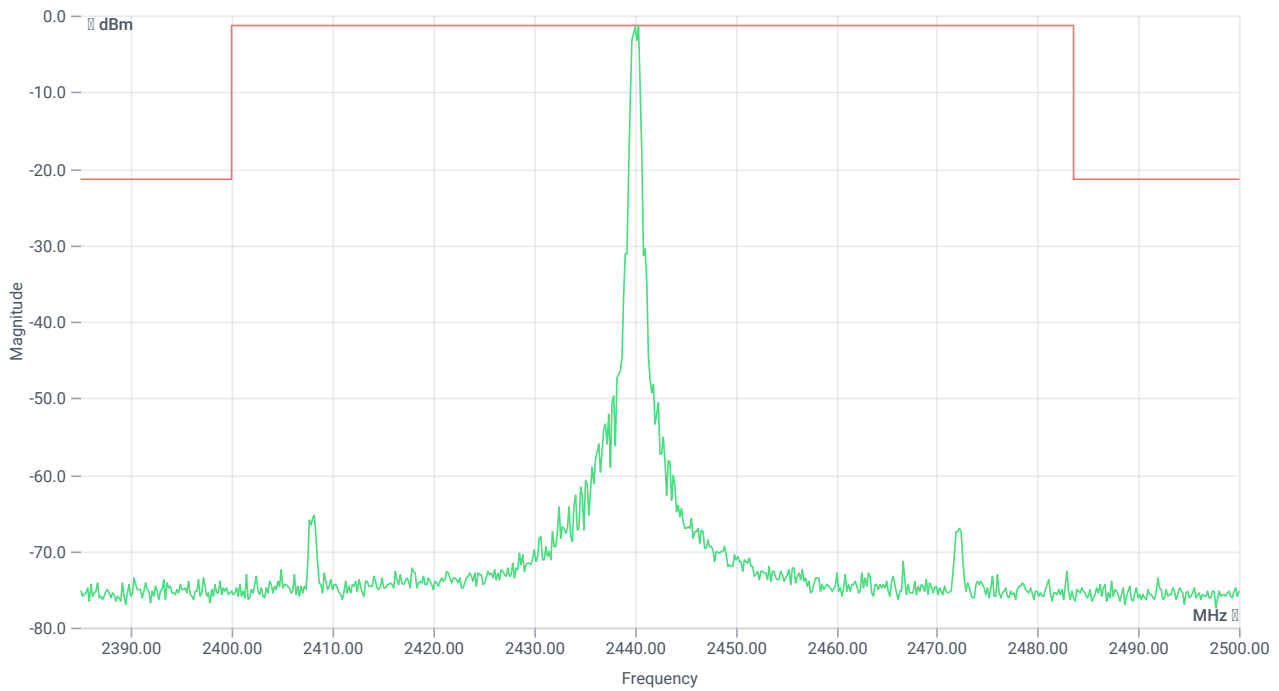
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.11    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2440.300 | MHz  | INFO    |



### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -1.11   17.03   0     |
| Start [MHz]   Stop [MHz]                             | 24780.000   25000.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 200   25   1501   SWE |



## RESULT

| DESCRIPTION                       | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2440.33 MHz           | ---         | ---         | -1.41    | dBm  | INFO    |
| No peaks detected                 | ---         | ---         |          |      | PASS    |
| Lowest margin to limit 4879.5 MHz | 0           | ---         | 21.43    | dB   | INFO    |

Verdict

PASS

## FCC 15.247 # TX spurious conducted 20dBc ~ BT LE 1 Msps

### References

|                                               |                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| TC start                                      | 22.04.2025 10:28:43                                                                                              |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                                                                        |
| System version                                | 5.1.9.0                                                                                                          |
| Standard   Version                            | FCC 15.247   NI                                                                                                  |
| Method                                        | IF DTS then 8.5 DTS emissions in non-restricted frequency bands:<br>Subclause 11.11 of ANSI C63.10 is applicable |
| Description                                   | FCC 15.247 TX emissions conducted DTS - BT LE 1 Msps                                                             |
| Information                                   |                                                                                                                  |

### EUT Common Settings BT Low Energy

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Intermodulation value N            | 3                                              |
| Image freq. Low   Mid   High [MHz] | 0   0   0                                      |
| Power class                        | 2                                              |
| 1 Mbps supported                   | True   TXpayload 255   RXpayload 255           |
| 2 Mbps supported                   | False   TXpayload 255   RXpayload 255          |
| Longrange S8 supported             | False   TXpayload 255   RXpayload 255          |
| Longrange S2 supported             | False   TXpayload 255   RXpayload 255          |
| Signaling settings                 | None   TWO   7   19200   None   S1   None   On |
| Signaling RF settings              | RF1com   0   0   On                            |
| User interaction                   | No                                             |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0            |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | BT LE 1 Msps            |
| EUT port                                         | EUT1                    |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 2402 |
| Frequency mid to test                            | False   Freq [MHz] 2440 |
| Frequency high to test                           | True   Freq [MHz] 2480  |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 0.7                     |
| Full path type                                   | EUT_SA_GEN_SIG          |

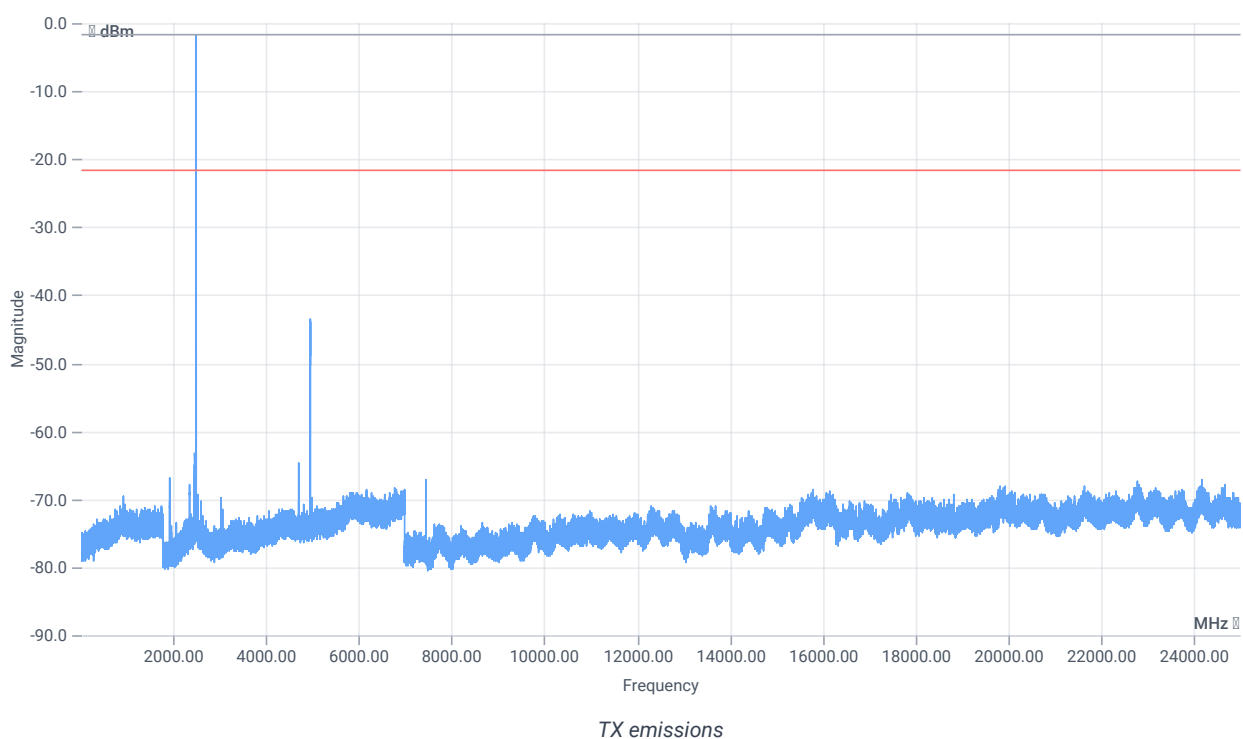
## Test Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits    | 00010001:00010001:00000000:00000001       |

## Test at TX 2480 MHz

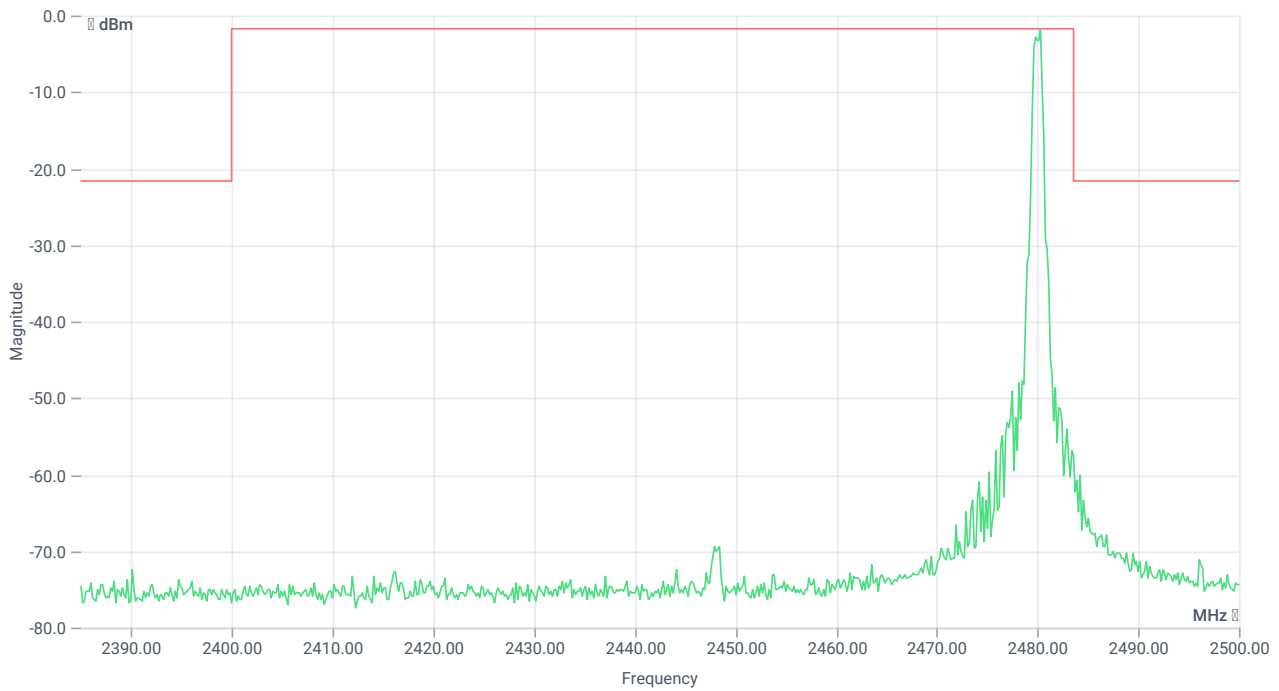
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | -1.53    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 2480.300 | MHz  | INFO    |



### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -1.53   17.03   0     |
| Start [MHz]   Stop [MHz]                             | 24780.000   25000.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 200   25   1501   SWE |



## RESULT

| DESCRIPTION                       | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2480.33 MHz           | ---         | ---         | -1.71    | dBm  | INFO    |
| No peaks detected                 | ---         | ---         |          |      | PASS    |
| Lowest margin to limit 4960.5 MHz | 0           | ---         | 21.84    | dB   | INFO    |

Verdict

PASS

- END OF DOCUMENT -