

## Annex 1: Measurement diagrams 21-1-0178701T024a-A1

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                 |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|
| <b>Number of pages:</b>                                 | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Date of Report:</b> | 2023-Jan-13     |
| <b>Testing company:</b>                                 | CETECOM GmbH<br>Im Teelbruch 116<br>45219 Essen Germany<br>Tel. + 49 (0) 20 54 / 95 19-0<br>Fax: + 49 (0) 20 54 / 95 19-150                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Applicant:</b>      | Actia Nordic AB |
| <b>Product:</b><br><b>Model:</b>                        | Telematic Device<br>104760201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                 |
| <b>FCC ID:</b>                                          | 2AGKK104760201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>IC:</b>             | 20839-104760201 |
| <b>Testing has been carried out in accordance with:</b> | <b>FCC Regulations</b><br><b>Title 47 CFR, Chapter I, Subchapter A, Part 15</b><br><b>Subpart C Intentional Radiators</b><br>§ 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz<br><br><b>ISED-Regulations</b><br><b>Radio Standards Specification</b><br><b>RSS-Gen, Issue 5</b><br>General Requirements for Compliance of Radio Apparatus<br><b>RSS-247, Issue 2</b><br>Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Device |                        |                 |



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## 1 Measurement diagrams

### 1.1 Conducted measurements

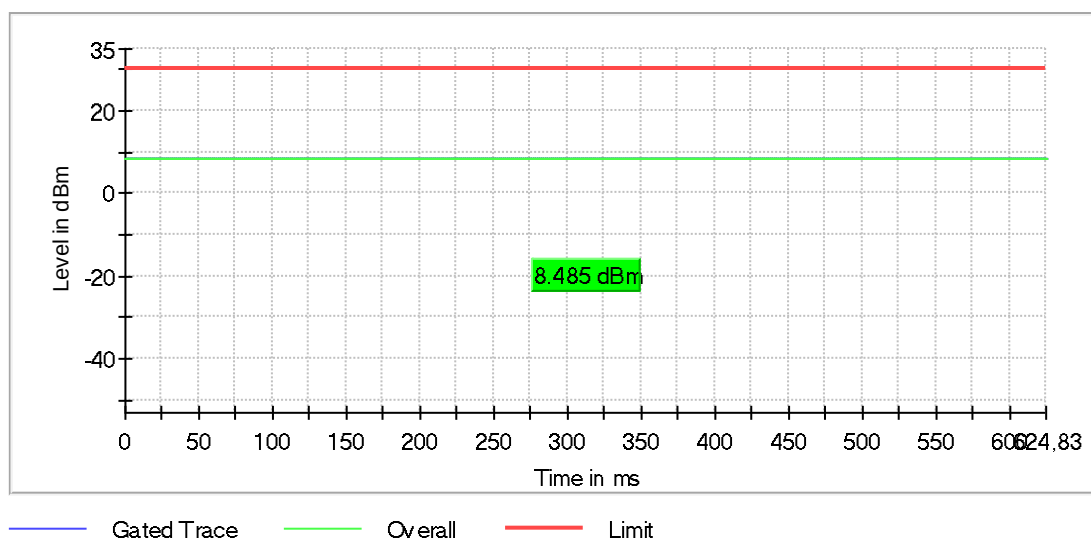
#### RF output power (2402 MHz; BT-LE [GFSK] (7,4 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 2402.000000         | 8.5             | 30.0            | 8.5              | 62.683        | PASS   |

Gated Trace



### OSP PowerMeter settings

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Measurement Time | 1.000 s          | 1.000 s       |
| Points           | 1000000          | 1000000       |
| Time resolution  | 1.000 $\mu$ s    | 1.000 $\mu$ s |

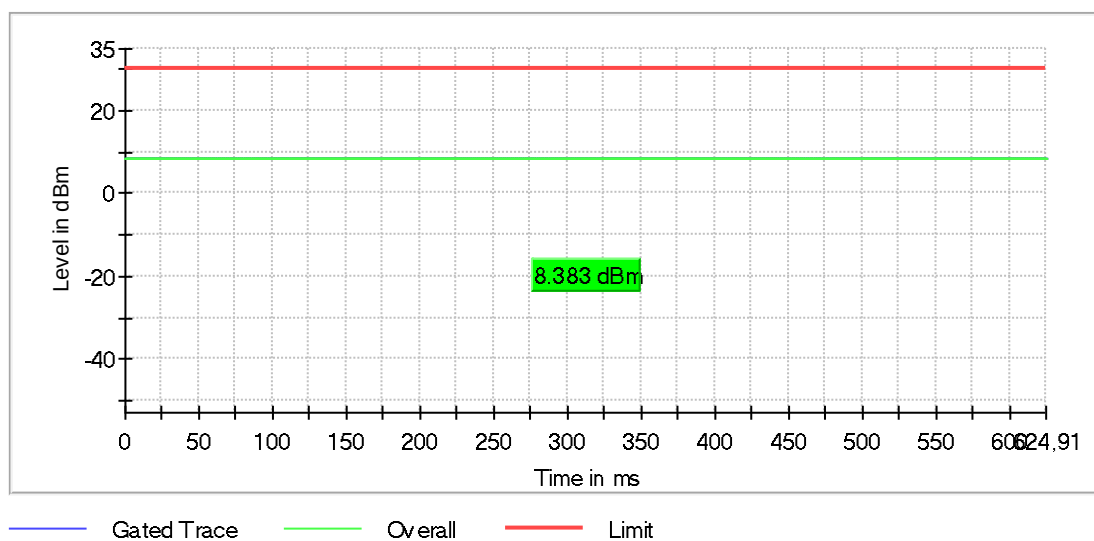
## RF output power (2440 MHz; BT-LE [GFSK] (7,4 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 2440.000000         | 8.4             | 30.0            | 8.4              | 62.692        | PASS   |

Gated Trace



### OSP PowerMeter settings

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Measurement Time | 1.000 s          | 1.000 s       |
| Points           | 1000000          | 1000000       |
| Time resolution  | 1.000 $\mu$ s    | 1.000 $\mu$ s |

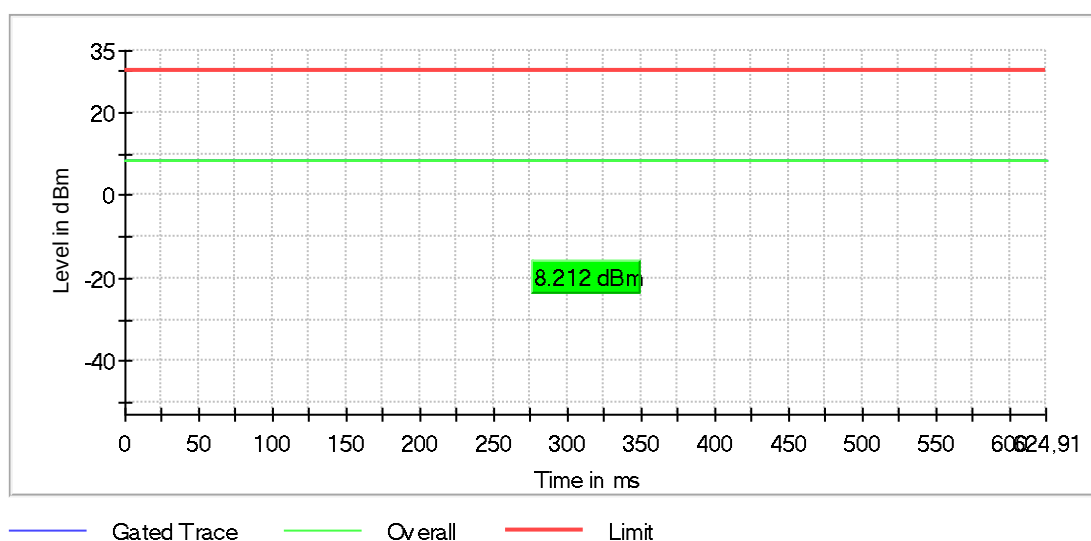
## RF output power (2480 MHz; BT-LE [GFSK] (7,4 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 2480.000000         | 8.2             | 30.0            | 8.2              | 62.692        | PASS   |

Gated Trace



### OSP PowerMeter settings

| Setting          | Instrument Value | Target Value |
|------------------|------------------|--------------|
| Measurement Time | 1.000 s          | 1.000 s      |
| Points           | 1000000          | 1000000      |
| Time resolution  | 1.000 µs         | 1.000 µs     |

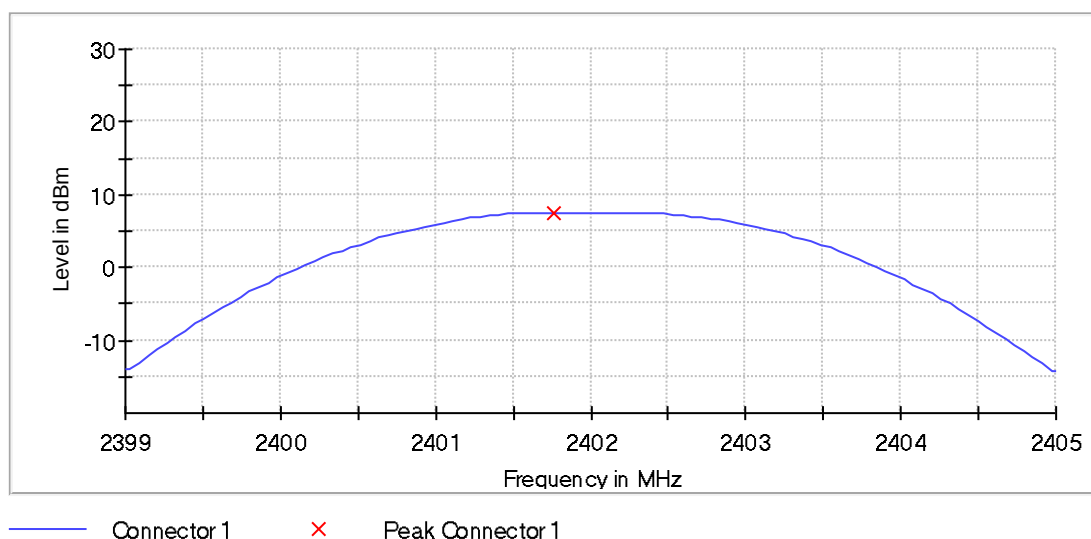
## Peak output power (Sweep) (2402 MHz; BT-LE [GFSK] (7,4 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Peak Power (dBm) | Limit Max (dBm) | Result |
|---------------------|------------------|-----------------|--------|
| 2402.000000         | 7.5              | 30.0            | PASS   |

Peak Power



### Measurement

| Setting               | Instrument Value | Target Value |
|-----------------------|------------------|--------------|
| Start Frequency       | 2.39900 GHz      | 2.39900 GHz  |
| Stop Frequency        | 2.40500 GHz      | 2.40500 GHz  |
| Span                  | 6.000 MHz        | 6.000 MHz    |
| RBW                   | 2.000 MHz        | >= 1.000 MHz |
| VBW                   | 10.000 MHz       | >= 6.000 MHz |
| SweepPoints           | 101              | ~ 101        |
| SweepTime             | 1.000 ms         | AUTO         |
| Reference Level       | 10.000 dBm       | 10.000 dBm   |
| Attenuation           | 20.000 dB        | AUTO         |
| Detector              | MaxPeak          | MaxPeak      |
| SweepCount            | 100              | 100          |
| Filter                | 3 dB             | 3 dB         |
| Trace Mode            | Max Hold         | Max Hold     |
| SweepType             | Sweep            | AUTO         |
| Preamplifier          | off              | off          |
| Stablemode            | Trace            | Trace        |
| Stablevalue           | 0.50 dB          | 0.50 dB      |
| Run                   | 4 / max. 150     | max. 150     |
| Stable                | 3 / 3            | 3            |
| Max Stable Difference | 0.03 dB          | 0.50 dB      |

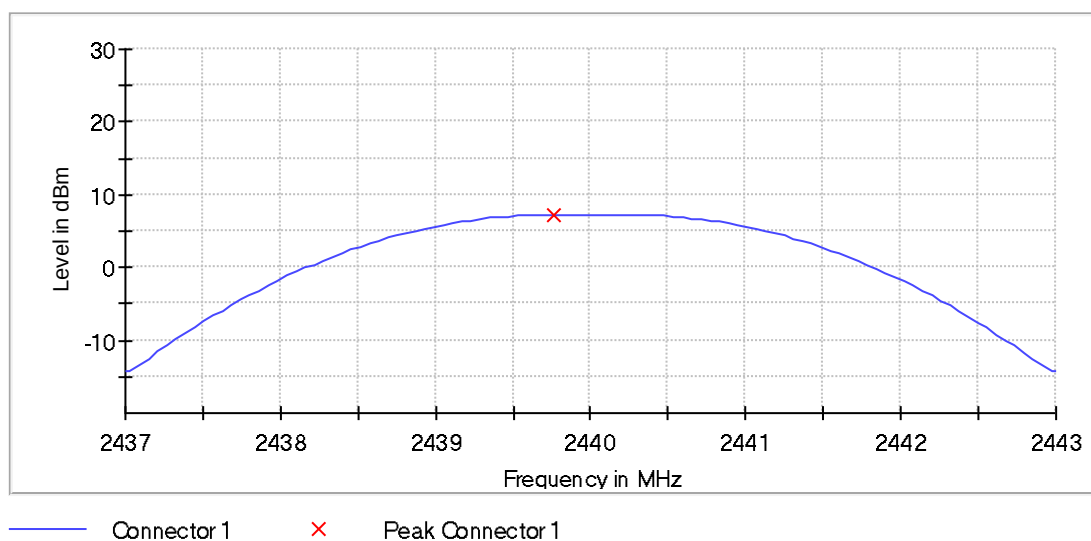
## Peak output power (Sweep) (2440 MHz; BT-LE [GFSK] (7,4 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Peak Power (dBm) | Limit Max (dBm) | Result |
|---------------------|------------------|-----------------|--------|
| 2440.000000         | 7.2              | 30.0            | PASS   |

Peak Power



### Measurement

| Setting               | Instrument Value | Target Value |
|-----------------------|------------------|--------------|
| Start Frequency       | 2.43700 GHz      | 2.43700 GHz  |
| Stop Frequency        | 2.44300 GHz      | 2.44300 GHz  |
| Span                  | 6.000 MHz        | 6.000 MHz    |
| RBW                   | 2.000 MHz        | >= 1.000 MHz |
| VBW                   | 10.000 MHz       | >= 6.000 MHz |
| SweepPoints           | 101              | ~ 101        |
| SweepTime             | 1.000 ms         | AUTO         |
| Reference Level       | 10.000 dBm       | 10.000 dBm   |
| Attenuation           | 20.000 dB        | AUTO         |
| Detector              | MaxPeak          | MaxPeak      |
| SweepCount            | 100              | 100          |
| Filter                | 3 dB             | 3 dB         |
| Trace Mode            | Max Hold         | Max Hold     |
| SweepType             | Sweep            | AUTO         |
| Preamplifier          | off              | off          |
| Stablemode            | Trace            | Trace        |
| Stablevalue           | 0.50 dB          | 0.50 dB      |
| Run                   | 4 / max. 150     | max. 150     |
| Stable                | 3 / 3            | 3            |
| Max Stable Difference | 0.02 dB          | 0.50 dB      |

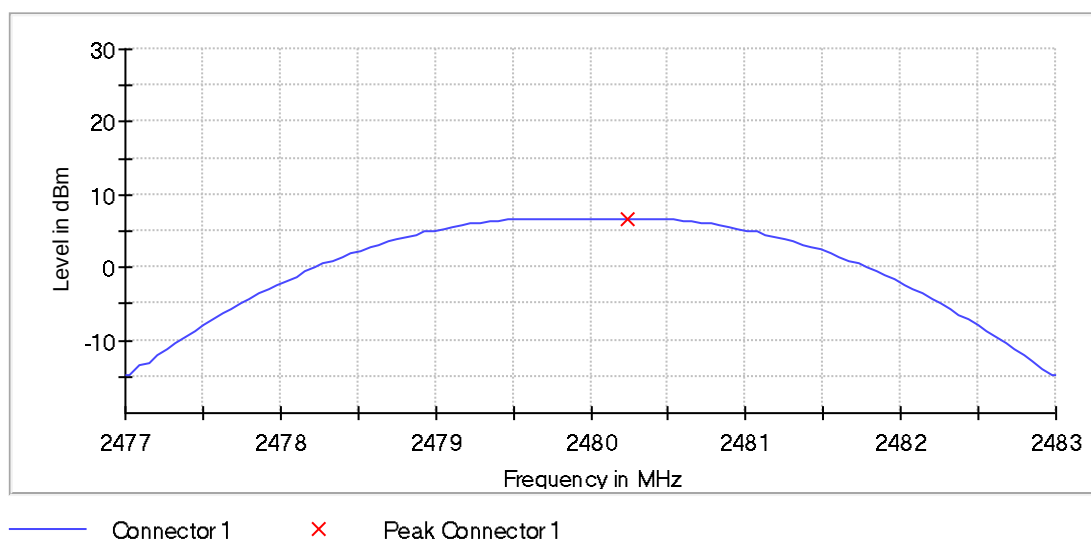
## Peak output power (Sweep) (2480 MHz; BT-LE [GFSK] (7,4 dBm); 1 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Peak Power (dBm) | Limit Max (dBm) | Result |
|---------------------|------------------|-----------------|--------|
| 2480.000000         | 6.7              | 30.0            | PASS   |

Peak Power



### Measurement

| Setting               | Instrument Value | Target Value |
|-----------------------|------------------|--------------|
| Start Frequency       | 2.47700 GHz      | 2.47700 GHz  |
| Stop Frequency        | 2.48300 GHz      | 2.48300 GHz  |
| Span                  | 6.000 MHz        | 6.000 MHz    |
| RBW                   | 2.000 MHz        | >= 1.000 MHz |
| VBW                   | 10.000 MHz       | >= 6.000 MHz |
| SweepPoints           | 101              | ~ 101        |
| SweepTime             | 1.000 ms         | AUTO         |
| Reference Level       | 10.000 dBm       | 10.000 dBm   |
| Attenuation           | 20.000 dB        | AUTO         |
| Detector              | MaxPeak          | MaxPeak      |
| SweepCount            | 100              | 100          |
| Filter                | 3 dB             | 3 dB         |
| Trace Mode            | Max Hold         | Max Hold     |
| SweepType             | Sweep            | AUTO         |
| Preamplifier          | off              | off          |
| Stablemode            | Trace            | Trace        |
| Stablevalue           | 0.50 dB          | 0.50 dB      |
| Run                   | 4 / max. 150     | max. 150     |
| Stable                | 3 / 3            | 3            |
| Max Stable Difference | 0.02 dB          | 0.50 dB      |

## 1.2 Radiated measurements

### 2.01a\_BLE\_ch00\_standing

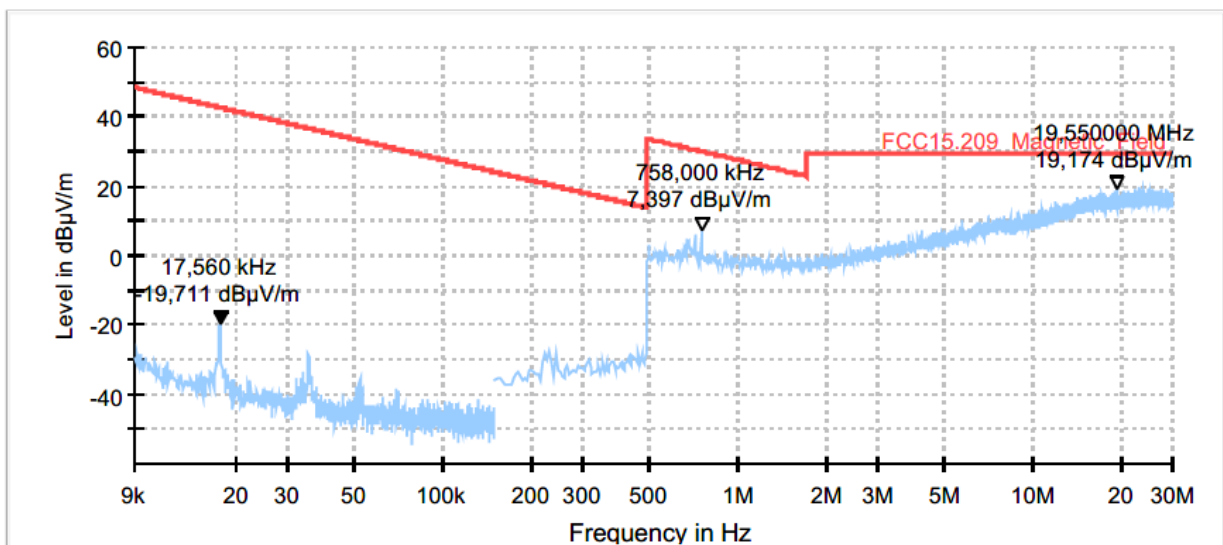
#### Common Information

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| Test description:        | Magnetic Field Strength Measurement related to 30/300 m distance        |
| Test Site Location:      | Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance |
| Version of Testsoftware: | EMC32 V10.50.0                                                          |
| Distance correction:     | used accord. table, pls. see test report                                |
| Technical Data:          | Please see page 2 for detailed data of measurement setup                |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation                     |
| Used filter:             | bypass                                                                  |
| Test Standard:           | FCC 15.205 § 15.209; RSS-Gen: Issue 5                                   |
| Operator:                | HLA                                                                     |
| Operating Mode:          | BLE_ch00                                                                |
| Verdict:                 | Passed                                                                  |

#### EUT Information

|            |                   |
|------------|-------------------|
| PMT number | 21-1-01787S53_C01 |
|------------|-------------------|

Full Spectrum



## 2.01b\_BLE\_ch00\_laying

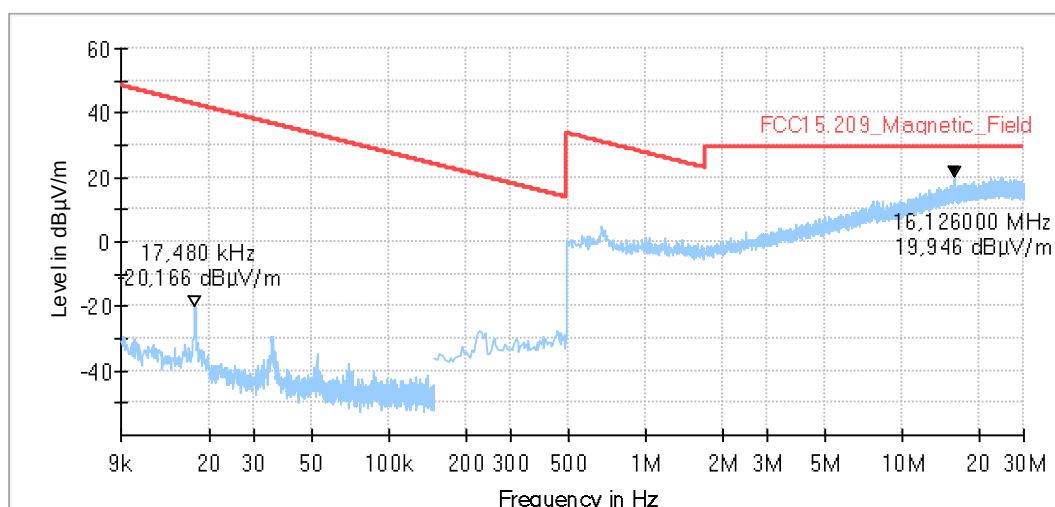
### Common Information

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| Test description:        | Magnetic Field Strength Measurement related to 30/300 m distance        |
| Test Site Location:      | Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance |
| Version of Testsoftware: | EMC32 V10.50.0                                                          |
| Distance correction:     | used accord. table, pls. see test report                                |
| Technical Data:          | Please see page 2 for detailed data of measurement setup                |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation                     |
| Used filter:             | bypass                                                                  |
| Test Standard:           | FCC 15.205 § 15.209; RSS-Gen: Issue 5                                   |
| Operator:                | HLA                                                                     |
| Operating Mode:          | BLE_ch00                                                                |
| Verdict:                 | Passed                                                                  |

### EUT Information

|            |                   |
|------------|-------------------|
| PMT number | 21-1-01787S53_C01 |
|------------|-------------------|

Full Spectrum



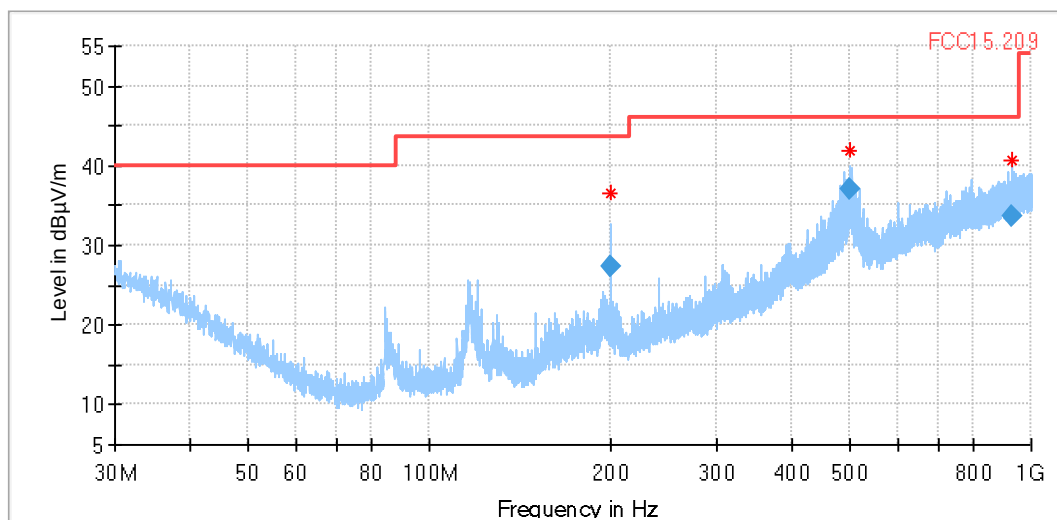
## 3.01a\_BLE\_ch00\_standing

### Common Information

Test Description: Radiated field strength emission in 3m distance  
 Test Site: CETECOM GmbH Essen  
 Test Standard: FCC 15.205&15.209 & RSS Gen. Issue 5  
 Antenna polarisation: horizontal/vertical  
 Environmental Conditions: Humidity : 48%rH; Temperature: 21°C  
 Operator Name: HLa  
 Operating Mode: b\_BLE\_ch00  
 Verdict: Passed

### EUT Information

PMT Sample number: 21-1-0178701S51\_C01



### Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) | Sig Path (dB) | Preamp (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|---------------|-------------|
| 199.990000      | 27.29              | 43.50          | 16.21       | 120.000         | 109.0       | V   | 202.0         | 11.0         | 0.0           | 1.3         |
| 497.830000      | 36.98              | 46.00          | 9.02        | 120.000         | 108.0       | V   | 17.0          | 19.7         | 0.0           | 2.3         |
| 927.710000      | 33.76              | 46.00          | 12.24       | 120.000         | 191.0       | V   | 190.0         | 27.0         | 0.0           | 3.4         |

(continuation of the "Final\_Result" table from column 18 ...)

| Frequency (MHz) | Trd Corr. (dB/m) | Raw Rec (dBµV) | Comment               |
|-----------------|------------------|----------------|-----------------------|
| 199.990000      | 9.7              | 16.3           | 20:19:01 - 30.11.2022 |
| 497.830000      | 17.3             | 17.3           | 20:24:09 - 30.11.2022 |
| 927.710000      | 23.6             | 6.8            | 20:29:31 - 30.11.2022 |

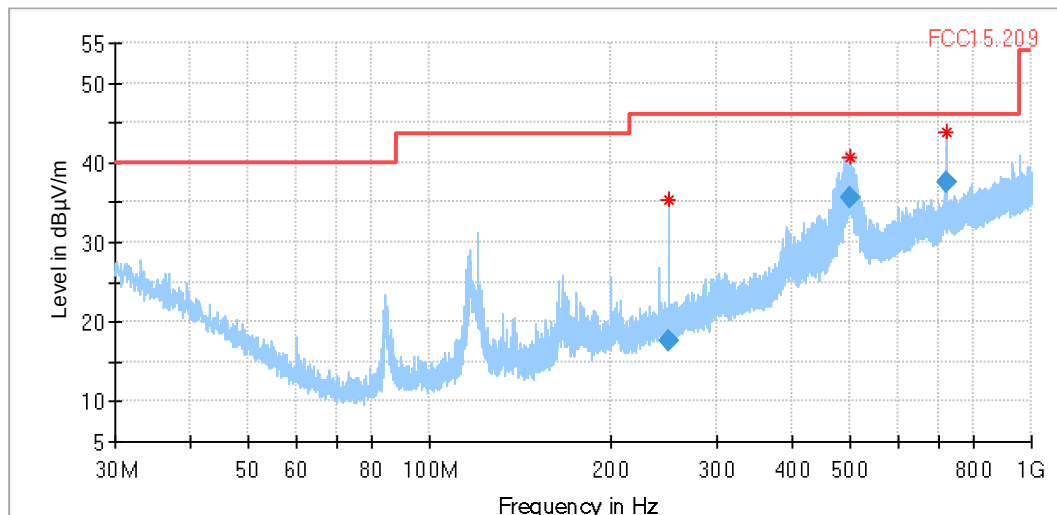
## 3.01b\_BLE\_ch00\_laying

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Radiated field strength emission in 3m distance |
| Test Site:                | CETECOM GmbH Essen                              |
| Test Standard:            | FCC 15.205&15.209 & RSS Gen. Issue 5            |
| Antenna polarisation:     | horizontal/vertical                             |
| Environmental Conditions: | Humidity : 48%rH; Temperature: 21°C             |
| Operator Name:            | HLa                                             |
| Operating Mode:           | b_BLE_ch00                                      |
| Verdict:                  | Passed                                          |

### EUT Information

|                    |                     |
|--------------------|---------------------|
| PMT Sample number: | 21-1-0178701S51_C01 |
|--------------------|---------------------|



### Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) | Sig Path (dB) | Preamp (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|---------------|-------------|
| 249.950000      | 17.67              | 46.00          | 28.33       | 120.000         | 130.0       | V   | 243.0         | 13.0         | 0.0           | 1.6         |
| 499.350000      | 35.55              | 46.00          | 10.45       | 120.000         | 183.0       | H   | 32.0          | 19.6         | 0.0           | 2.3         |
| 724.070000      | 37.47              | 46.00          | 8.53        | 120.000         | 181.0       | H   | 2.0           | 25.1         | 0.0           | 2.9         |

(continuation of the "Final\_Result" table from column 18 ...)

| Frequency (MHz) | Trd Corr. (dB/m) | Raw Rec (dBµV) | Comment               |
|-----------------|------------------|----------------|-----------------------|
| 249.950000      | 11.4             | 4.7            | 19:54:33 - 30.11.2022 |
| 499.350000      | 17.3             | 15.9           | 19:49:16 - 30.11.2022 |
| 724.070000      | 22.2             | 12.3           | 19:43:43 - 30.11.2022 |

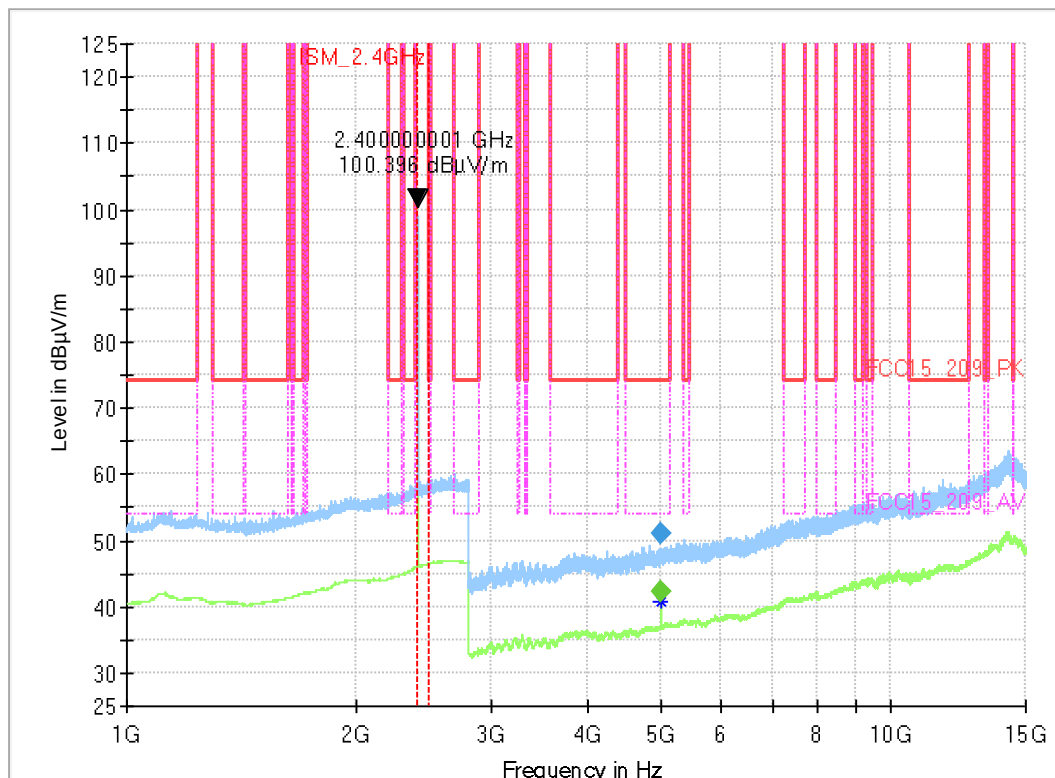
## 4.01a\_RSE\_TX\_Ch00\_Low\_EUT\_standing

### Common Information

|                           |                                              |
|---------------------------|----------------------------------------------|
| Test Description:         | Radiated Field Strength Emission@3m distance |
| Test Site Location:       | CETECOM GmbH Essen                           |
| Test Site:                | Fully Anechoic Room (FAR2)                   |
| Test Standard:            | FCC 15.209 & RSS-Gen, Issue 5                |
| Operating Mode:           | TX BTLE, Ch00                                |
| Environmental Conditions: | Humidity: 38%rH; Temperature: 20.2°C         |
| Operator:                 | Lor                                          |
| Verdict:                  | Passed                                       |

### EUT Information

|                |                   |
|----------------|-------------------|
| PMT Sample Nr. | 21-1-01787S50_C01 |
|                | Full Spectrum     |



### Final\_Result

| Frequency (MHz) | RMS (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) | Sig Path (dB) |
|-----------------|--------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|---------------|
| 4999.479616     | 42.26        | 54.00          | 11.74       | 100.0           | 150.0       | H   | 12.0          | 0.3          | -32.9         |
| 4999.479616     | ---          | 74.00          | 23.05       | 100.0           | 150.0       | H   | 12.0          | 0.3          | -32.9         |

(continuation of the "Final\_Result" table from column 17 ...)

| Frequency (MHz) | Preamp (dB) | Trd Corr. (dB/m) | Raw Rec (dBμV) | Comment                |
|-----------------|-------------|------------------|----------------|------------------------|
| 4999.479616     | 0.0         | 33.2             | 41.9           | 3:36:11 PM - 12/1/2022 |
| 4999.479616     | 0.0         | 33.2             | 50.6           | 3:36:11 PM - 12/1/2022 |

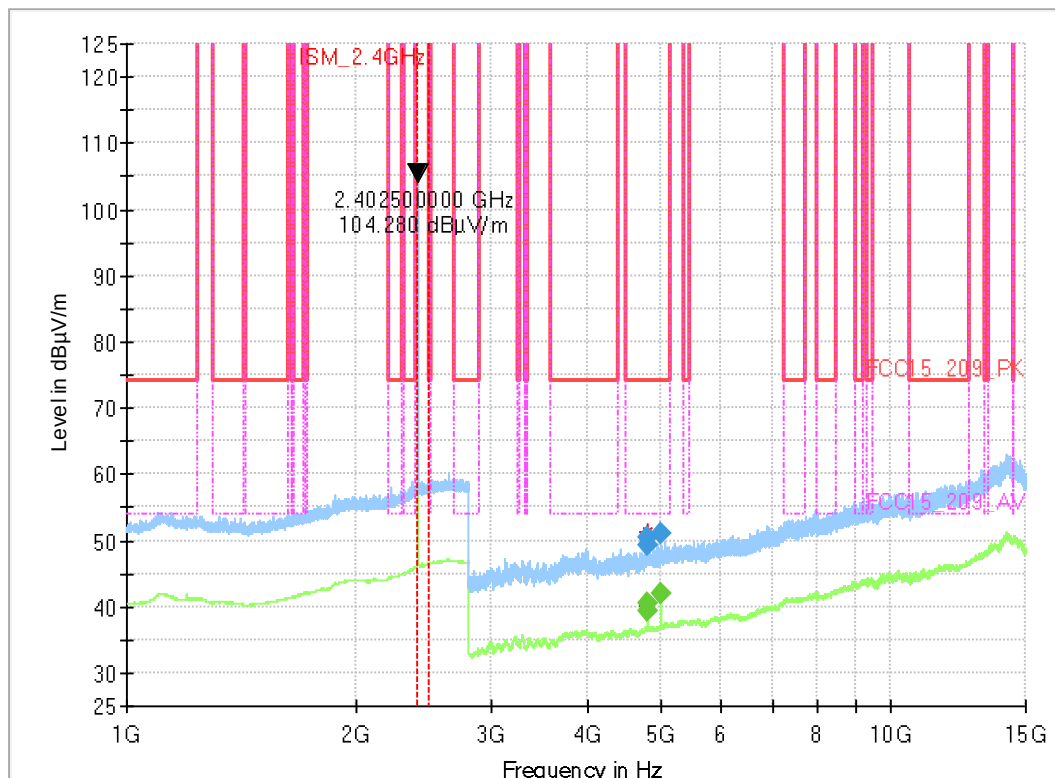
## 4.01b\_RSE\_TX\_Ch00\_Low\_EUT\_laying

### Common Information

Test Description: Radiated Field Strength Emission@3m distance  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR2)  
 Test Standard: FCC 15.209 & RSS-Gen, Issue 5  
 Operating Mode: TX BTLE, Ch00  
 Environmental Conditions: Humidity: 44%rH; Temperature: 19.5°C  
 Operator: Lor  
 Verdict: Passed

### EUT Information

PMT Sample Nr. 21-1-01787S50\_C01  
 Full Spectrum



### Final\_Result\_PK+

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) | Sig Path (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|---------------|
| 4803.398846     | 50.33            | 74.00          | 23.67       | 1000.000        | 150.0       | V   | 147.0         | -0.4         | -33.3         |
| 4803.475578     | 49.40            | 74.00          | 24.60       | 1000.000        | 150.0       | V   | 144.0         | -0.4         | -33.3         |
| 4999.431924     | 50.94            | 74.00          | 23.06       | 1000.000        | 150.0       | V   | 241.0         | 0.3          | -32.9         |

(continuation of the "Final\_Result\_PK+" table from column 12 ...)

| Frequency (MHz) | Trd Corr. (dB/m) | Raw Rec (dBµV) | Comment                |
|-----------------|------------------|----------------|------------------------|
| 4803.398846     | 32.9             | 50.7           | 4:13:29 PM - 12/1/2022 |
| 4803.475578     | 32.9             | 49.8           | 4:12:17 PM - 12/1/2022 |
| 4999.431924     | 33.2             | 50.6           | 4:14:49 PM - 12/1/2022 |

## Final Result RMS

| Frequency (MHz) | RMS (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) | Sig Path (dB) |
|-----------------|--------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|---------------|
| 4803.398846     | 40.37        | 54.00          | 13.63       | 1000.000        | 150.0       | V   | 147.0         | -0.4         | -33.3         |
| 4803.475578     | 39.44        | 54.00          | 14.56       | 1000.000        | 150.0       | V   | 144.0         | -0.4         | -33.3         |
| 4999.431924     | 42.10        | 54.00          | 11.90       | 1000.000        | 150.0       | V   | 241.0         | 0.3          | -32.9         |

(continuation of the "Final\_Result\_RMS" table from column 12 ...)

| Frequency (MHz) | Trd Corr. (dB/m) | Raw Rec (dBμV) | Comment                |
|-----------------|------------------|----------------|------------------------|
| 4803.398846     | 32.9             | 40.7           | 4:13:29 PM - 12/1/2022 |
| 4803.475578     | 32.9             | 39.8           | 4:12:17 PM - 12/1/2022 |
| 4999.431924     | 33.2             | 41.8           | 4:14:50 PM - 12/1/2022 |

## 4.02a\_RSE\_TX\_Ch00\_Low\_15G-18G\_EUT\_standing

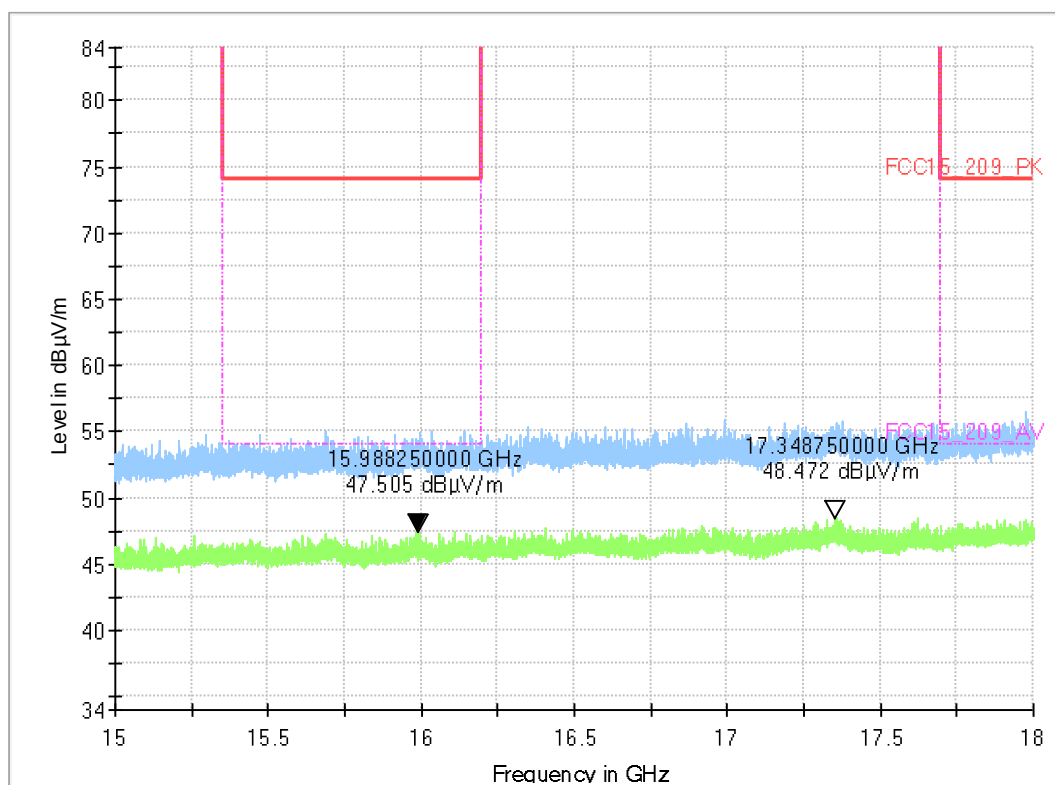
### Common Information

|                           |                                              |
|---------------------------|----------------------------------------------|
| Test Description:         | Radiated Field Strength Emission@3m distance |
| Test Site Location:       | CETECOM GmbH Essen                           |
| Test Site:                | Fully Anechoic Room (FAR2)                   |
| Test Standard:            | FCC 15.209 & RSS-Gen, Issue 5                |
| Operating Mode:           | TX BTLE, Ch00                                |
| SW:                       | EMC32 V10.60.20                              |
| Environmental Conditions: | Humidity: 37%rH; Temperature: 20.5°C         |
| Operator:                 | Lor                                          |
| Verdict:                  | Passed                                       |

### EUT Information

PMT Sample Nr. 21-1-01787S50\_C01

Full Spectrum



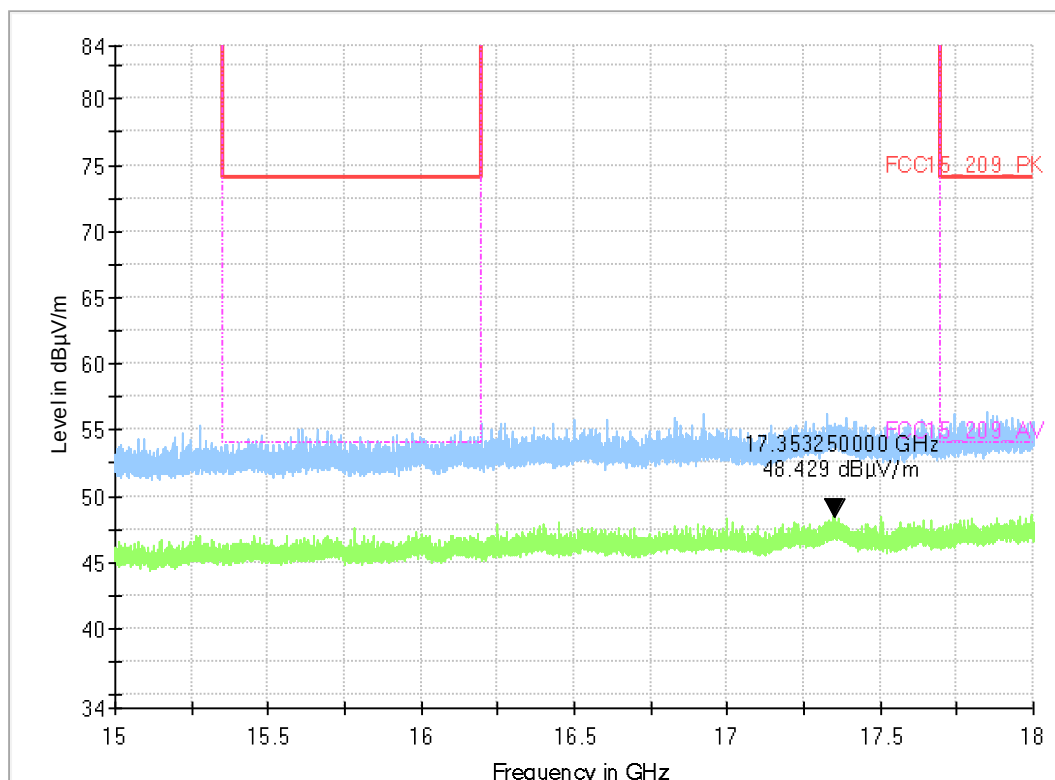
## 4.02b\_RSE\_TX\_Ch00\_Low\_15G-18G\_EUT\_laying

### Common Information

|                           |                                              |
|---------------------------|----------------------------------------------|
| Test Description:         | Radiated Filed Strength Emission@3m distance |
| Test Site Location:       | CETECOM GmbH Essen                           |
| Test Site:                | Fully Anechoic Room (FAR2)                   |
| Test Standard:            | FCC 15.209 & RSS-Gen, Issue 5                |
| Operating Mode:           | TX BTLE, Ch00                                |
| Environmental Conditions: | Humidity: 37%rH; Temperature: 20.5°C         |
| Operator:                 | Lor                                          |
| Verdict:                  | Passed                                       |

### EUT Information

|                |                   |
|----------------|-------------------|
| PMT Sample Nr. | 21-1-01787S50_C01 |
|                | Full Spectrum     |



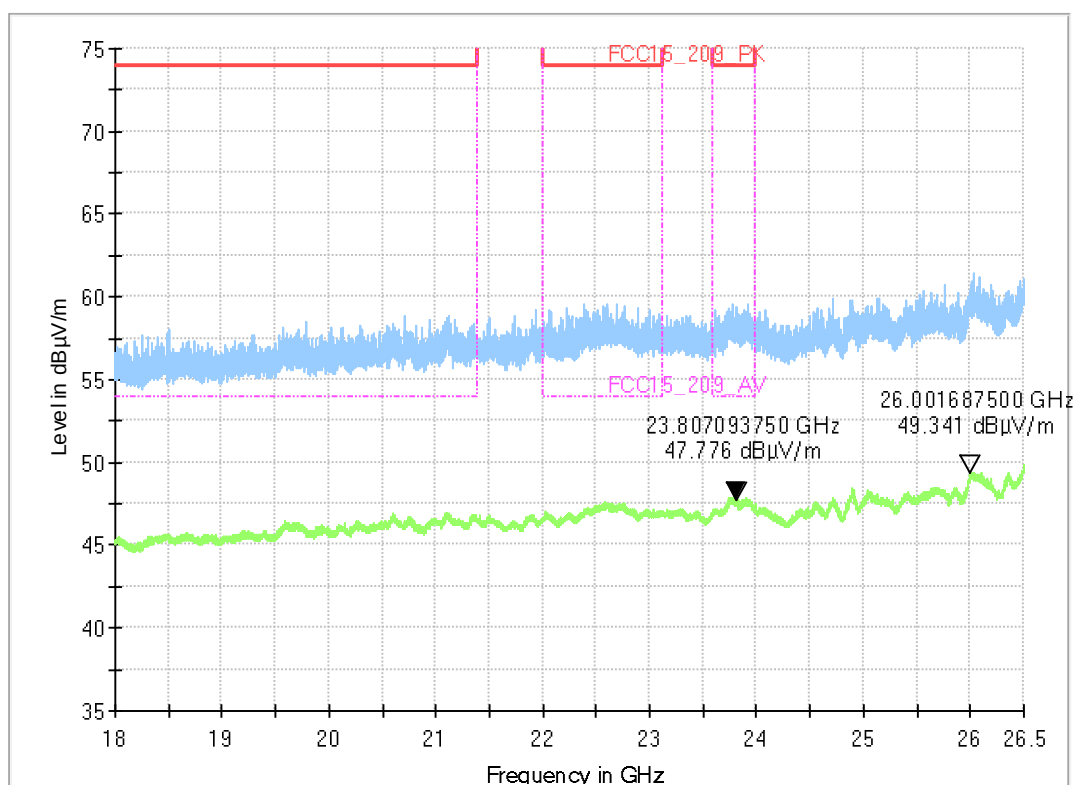
## 4.03a\_RSE\_TX\_Ch00\_Low\_18G- 26.5GHz\_EUT\_standing

### Common Information

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Test Description:         | Radiated field strength emission in 3m distance            |
| Test Site:                | CETECOM GmbH Essen                                         |
| Test Standard:            | FCC 15.205&15.209 Intentional Radiator / RSS-Gen., Issue 5 |
| Antenna polarisation:     | horizontal/vertical                                        |
| Operating Mode:           | BTLE / Ch00                                                |
| Operator:                 | Lor                                                        |
| Comment:                  | Channel no. low                                            |
| Environmental Conditions: | T=19.7°C, Hum=34%rH                                        |
| EUT Setup:                | S50                                                        |
| Verdict:                  | Passed                                                     |

### EUT Information

|                |                   |
|----------------|-------------------|
| PMT Sample Nr. | 21-1-01787S50_C01 |
|                | Full Spectrum     |



## 4.03b\_RSE\_TX\_Ch00\_Low\_18G- 26.5GHz\_EUT\_laying

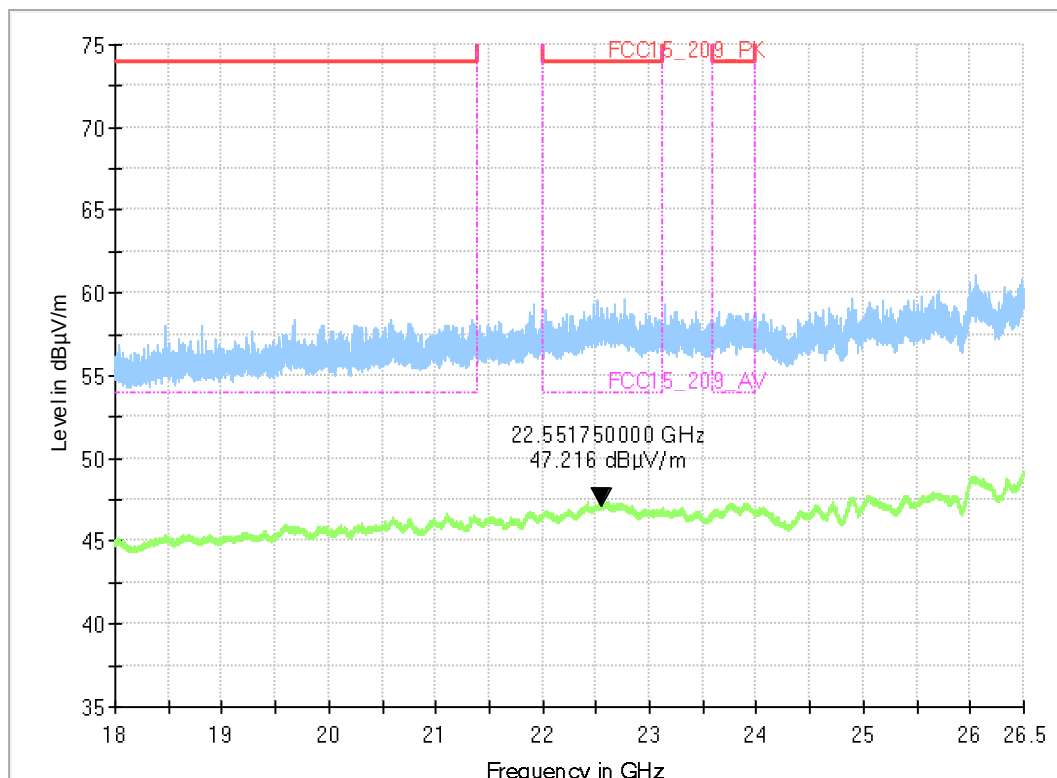
### Common Information

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Test Description:         | Radiated field strength emission in 3m distance            |
| Test Site:                | CETECOM GmbH Essen                                         |
| Test Standard:            | FCC 15.205&15.209 Intentional Radiator / RSS-Gen., Issue 5 |
| Antenna polarisation:     | horizontal/vertical                                        |
| SW-used:                  | EMC32 V10.60.20                                            |
| Operating Mode:           | BTLE / Ch00                                                |
| Operator:                 | Lor                                                        |
| Comment:                  | Channel no. low=00                                         |
| Environmental Conditions: | T=19.7°C, Hum=34%rH                                        |
| EUT Setup:                | S50                                                        |
| Verdict:                  | Passed                                                     |

### EUT Information

PMT Sample Nr. 21-1-01787S50\_C01

Full Spectrum



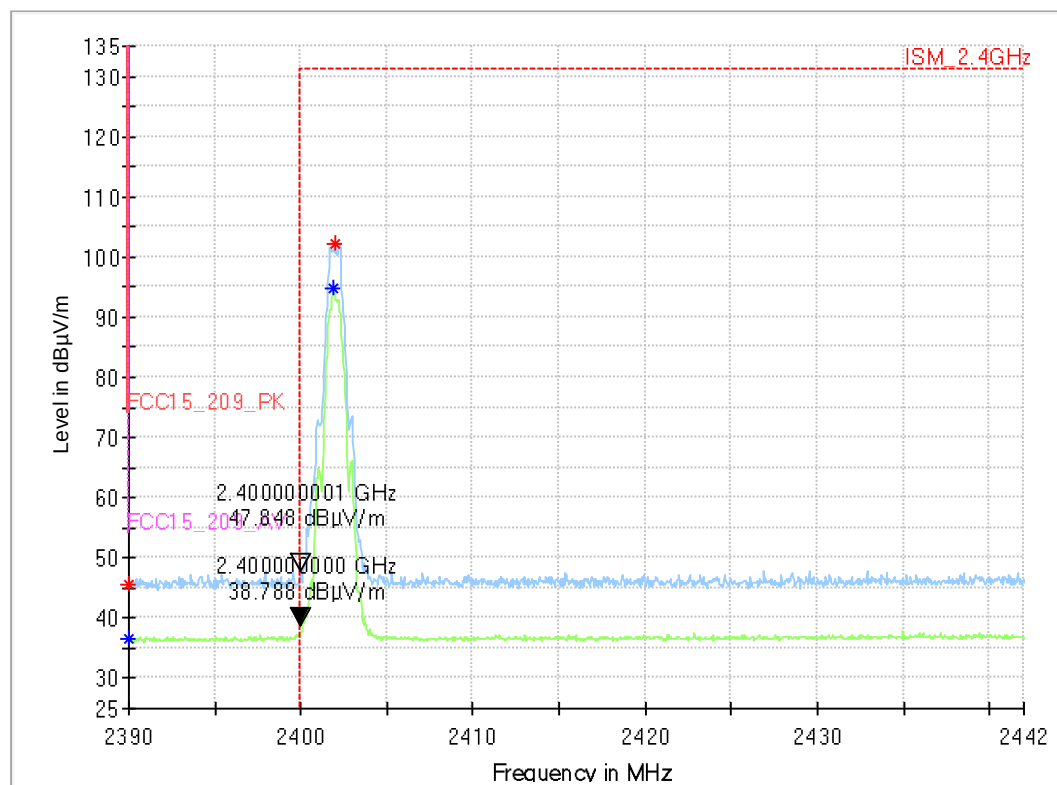
## 9.1a\_BE\_low\_Ch00\_EUT\_standing

### Common Information

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Test Description:     | Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance |
| Test Site:            | CETECOM GmbH Essen                                                    |
| Test Standard:        | FCC 15.205&15.209 Intentional Radiator / RSS-Gen., Issue 5            |
| Antenna polarisation: | horizontal/vertical                                                   |
| SW-used:              | EMC32 V10.60.20                                                       |
| Operating Mode:       | BTLE / Ch00                                                           |
| Operator:             | Lor                                                                   |
| Comment:              | Channel no. low                                                       |
| EUT Setup:            | S50                                                                   |
| Verdict:              | Passed                                                                |

### EUT Information

|                |                   |
|----------------|-------------------|
| PMT Sample Nr. | 21-1-01787S50_C01 |
|                | Full Spectrum     |



### Data Reduction D1 [1]

| Frequency (MHz) | PK+ _MAXH (dBµV/m) | RMS _MAXH (dBµV/m) | Height (cm) | Azimuth (deg) | Corr. (dB/m) | Meas. Time (ms) | Bandwidth (kHz) |
|-----------------|--------------------|--------------------|-------------|---------------|--------------|-----------------|-----------------|
| 2390.000000     | 45.6               | 36.2               | 150.0       | 152.0         | 34.3         | 500.000         | 100.000000      |
| 2401.960000     | 102.3              | 94.7               | 150.0       | 350.0         | 34.2         | 500.000         | 100.000000      |

**Data Reduction D2 [1]**

| Frequency<br>(MHz) | PK+_MAXH<br>(dBμV/m) | RMS_MAXH<br>(dBμV/m) | Height<br>(cm) | Azimuth<br>(deg) | Corr.<br>(dB/m) | Meas.<br>Time<br>(ms) | Bandwidth<br>(kHz) |
|--------------------|----------------------|----------------------|----------------|------------------|-----------------|-----------------------|--------------------|
| 2390.000000        | 45.2                 | 36.5                 | 150.0          | 205.0            | 34.3            | 500.000               | 100.000000         |
| 2401.908000        | 101.1                | 94.9                 | 150.0          | 348.0            | 34.2            | 500.000               | 100.000000         |

## 9.1b\_BE\_low\_Ch00\_EUT\_laying

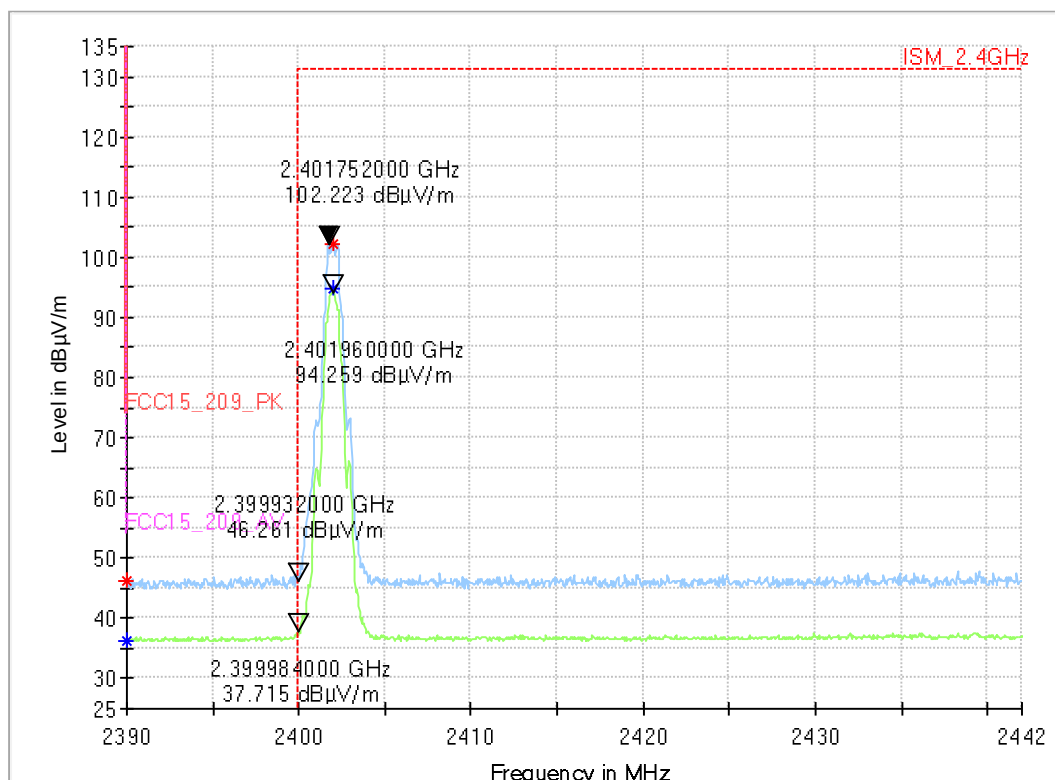
### Common Information

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Test Description:     | Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance |
| Test Site:            | CETECOM GmbH Essen                                                    |
| Test Standard:        | FCC 15.205&15.209 Intentional Radiator / RSS-Gen., Issue 5            |
| Antenna polarisation: | horizontal/vertical                                                   |
| SW-used:              | EMC32 V10.60.20                                                       |
| Operating Mode:       | BTLE / Ch00                                                           |
| Operator:             | Lor                                                                   |
| Comment:              | Channel no. low=00                                                    |
| EUT Setup:            | S50                                                                   |
| Verdict:              | Passed                                                                |

### EUT Information

|                |                   |
|----------------|-------------------|
| PMT Sample Nr. | 21-1-01787S50_C01 |
|----------------|-------------------|

Full Spectrum



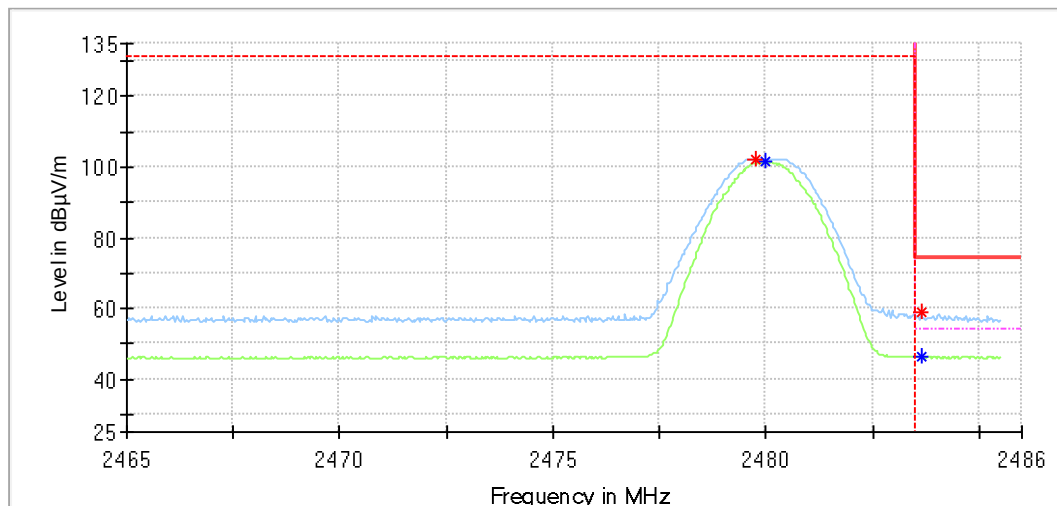
## 9.2a\_BE\_high\_Ch27\_EUT\_standing

### Common Information

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Test Description:     | Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance |
| Test Site:            | CETECOM GmbH Essen                                                    |
| Test Standard:        | FCC 15.205&15.209 Intentional Radiator / RSS-Gen., Issue 5            |
| Antenna polarisation: | horizontal/vertical                                                   |
| Meas. SW-used:        | EMC32 V10.60.20                                                       |
| Operating Mode:       | BTLE / Ch27 (highest)                                                 |
| Operator:             | Lor                                                                   |
| Comment:              | Channel no. high = 27                                                 |
| EUT Setup:            | S50                                                                   |
| Verdict:              | Passed                                                                |

### EUT Information

|                |                   |
|----------------|-------------------|
| PMT Sample Nr. | 21-1-01787S50_C01 |
|                | Full Spectrum     |



### Data Reduction D1 [1]

| Frequency (MHz) | PK+ MAXH (dBµV/m) | RMS MAXH (dBµV/m) | Height (cm) | Azimuth (deg) | Corr. (dB/m) | Meas. Time (ms) | Bandwidth (kHz) |
|-----------------|-------------------|-------------------|-------------|---------------|--------------|-----------------|-----------------|
| 2479.771500     | 102.4             | 101.3             | 150.0       | 350.0         | 34.4         | 300.000         | 1000.000000     |
| 2483.624000     | 58.8              | 46.2              | 150.0       | 22.0          | 34.4         | 300.000         | 1000.000000     |

## 9.2b\_BE\_high\_Ch27\_EUT\_laying

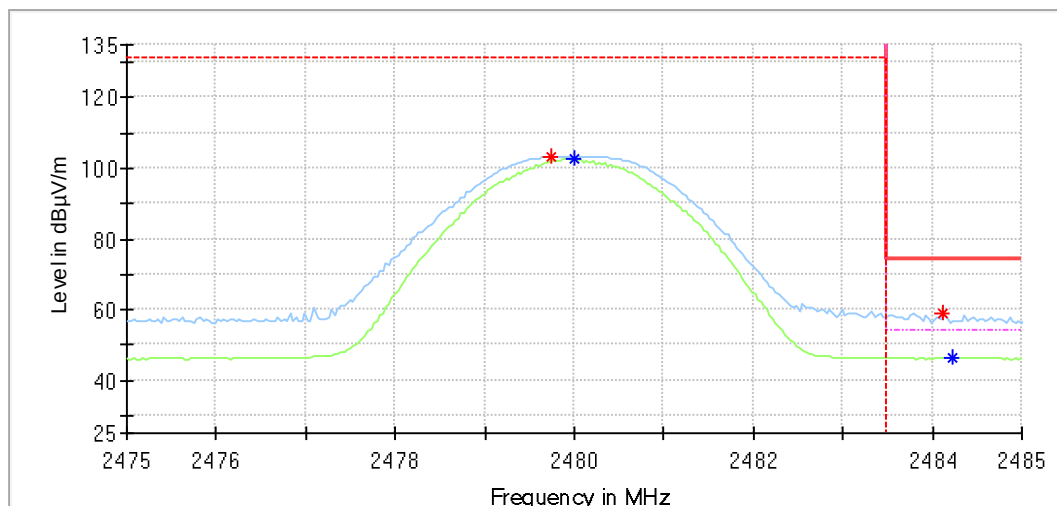
### Common Information

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| Test Description:     | Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance |
| Test Site:            | CETECOM GmbH Essen                                                    |
| Test Standard:        | FCC 15.205&15.209 Intentional Radiator / RSS-Gen., Issue 5            |
| Antenna polarisation: | horizontal/vertical                                                   |
| Meas. SW-used:        | EMC32 V10.60.20                                                       |
| Operating Mode:       | BTLE / Ch27 (highest)                                                 |
| Operator:             | Lor                                                                   |
| Comment:              | Channel no. high = 27                                                 |
| EUT Setup:            | S50                                                                   |
| Verdict:              | Passed                                                                |

### EUT Information

PMT Sample Nr. 21-1-01787S50\_C01

Full Spectrum



### Data Reduction D1 [1]

| Frequency (MHz) | PK+_MAXH (dBµV/m) | RMS_MAXH (dBµV/m) | Height (cm) | Azimuth (deg) | Corr. (dB/m) | Meas. Time (ms) | Bandwidth (kHz) |
|-----------------|-------------------|-------------------|-------------|---------------|--------------|-----------------|-----------------|
| 2479.738000     | 103.2             | 101.9             | 150.0       | 359.0         | 34.4         | 300.000         | 1000.000000     |
| 2484.126500     | 59.0              | 46.2              | 150.0       | 13.0          | 34.4         | 300.000         | 1000.000000     |

End Of Annex 1