

## Annex 1: Measurement diagrams

### 23-1-0014801T033\_TR1-A201-R02

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|
| <b>Number of pages:</b>                                 | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Date of Report:</b> | 2024-Oct-17                      |
| <b>Testing company:</b>                                 | cetecom advanced GmbH<br>Untertuerkheimer Str. 6-10<br>66117 Saarbruecken<br>GERMANY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Applicant:</b>      | VALEO Telematik und Akustik GmbH |
| <b>Product:</b>                                         | <b>Antenna and Remote Telematics Integrated System</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                                  |
| <b>Model:</b>                                           | <b>ARTEMIS-NAR-01</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                  |
| <b>FCC ID:</b>                                          | QWY-ARTEMIS-NAR01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>IC:</b>             | 6588A-ARTEMISNAR1                |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>PMN:</b>            | ARTEMIS-NAR-01                   |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>HVIN:</b>           | ARTEMIS-NAR-01                   |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>FVIN:</b>           | E20 R550                         |
| <b>Testing has been carried out in accordance with:</b> | <b>FCC Regulations</b><br><b>Title 47 CFR, Chapter I, Subchapter A</b><br>Part 15, Subpart C Intentional Radiators; § 15.209 Radiated emission limits; general requirements<br><b>Title 47 CFR, Chapter I, Subchapter B</b><br>Part 22, Subpart H Cellular Radiotelephone Service<br>Part 24, Subpart E Paging and Radiotelephone Service<br>Part 27, Subpart C Miscellaneous Wireless Communications Services<br><b>ISED-Regulations, Radio Standards Specification</b><br><b>RSS-Gen, Issue 5</b><br>General Requirements for Compliance of Radio Apparatus<br><b>RSS-132, Issue 4</b><br>Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz<br><b>RSS-133, Issue 7</b><br>2 GHz Personal Communications Services<br><b>RSS-139, Issue 4</b><br>Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz |                        |                                  |

## Measurement diagrams

### EUT Information for all following tests:

PMT number: 23-1-00148S177\_C01  
Power: 12 V DC

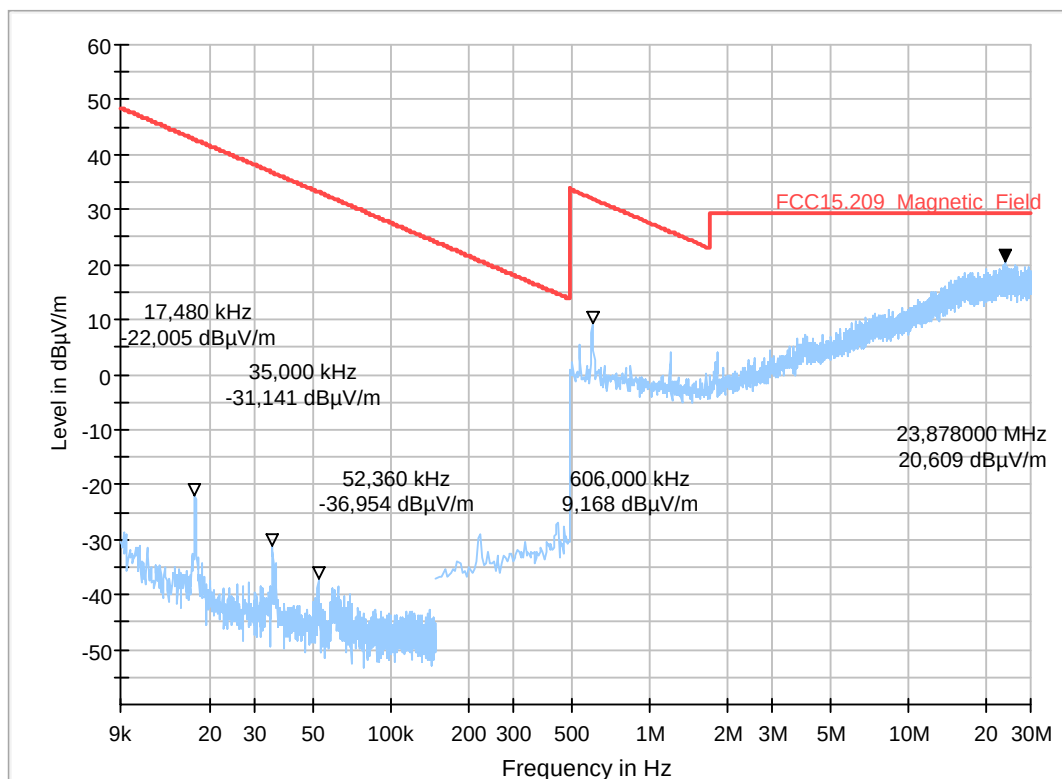
## 2.201\_H\_field\_UMTS\_FDD\_B02\_CH\_9400

### 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: SOz/PSt  
Operating Mode: UMTS\_FDD\_B02\_CH\_9400  
Comment 1: EUT lying  
Environmental Conditions: Humidity : 50%rH; Temperature: 20°C  
EUT Setup: 1  
Verdict: Passed

Full Spectrum

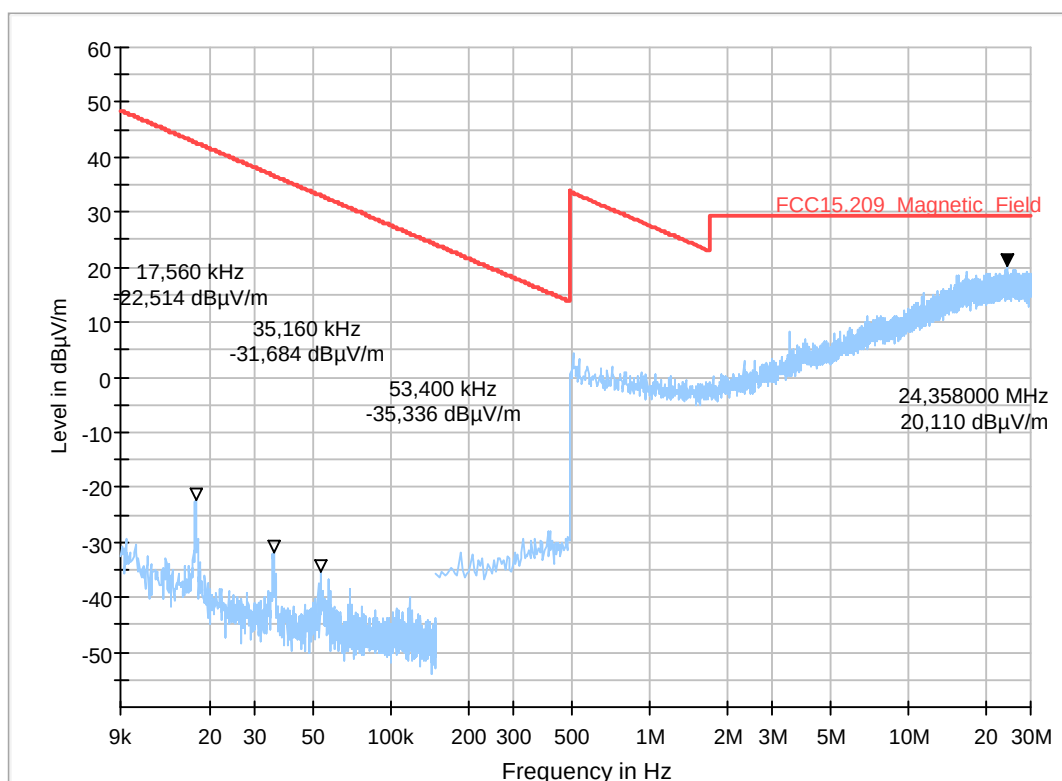


## 2.202\_H\_field\_UMTS\_FDD\_B02\_CH\_9400

### 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:                 | SOz/PSI                                                                 |
| Operating Mode:           | UMTS_FDD_B02_CH_9400                                                    |
| Power during tests:       | 12 V DC                                                                 |
| Comment 1:                | EUT standing                                                            |
| Environmental Conditions: | Humidity : 50%rH; Temperature: 20°C                                     |
| EUT Setup:                | 1                                                                       |
| Verdict:                  | Passed                                                                  |

Full Spectrum

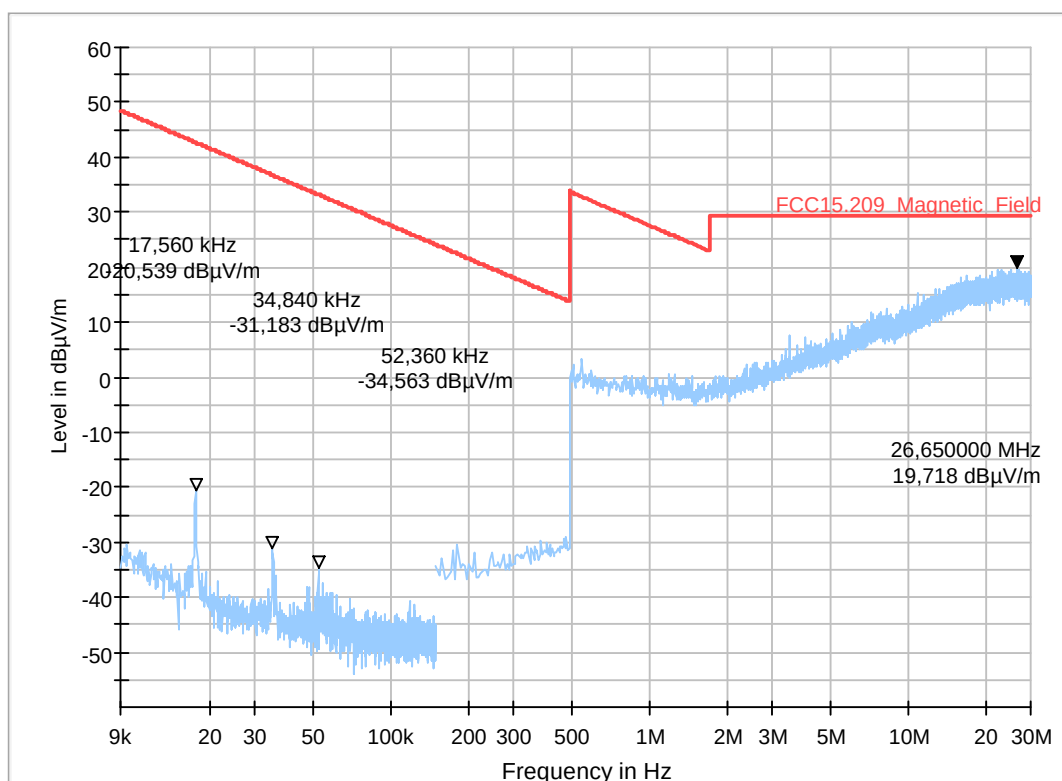


## 2.401\_H\_field\_UMTS\_FDD\_B04\_CH\_1512

### 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:                 | SOz/PSI                                                                 |
| Operating Mode:           | UMTS_FDD_B04_CH_1512                                                    |
| Power during tests:       | 12 V DC                                                                 |
| Comment 1:                | EUT lying                                                               |
| Environmental Conditions: | Humidity : 50%rH; Temperature: 20°C                                     |
| EUT Setup:                | 1                                                                       |
| Verdict:                  | Passed                                                                  |

Full Spectrum

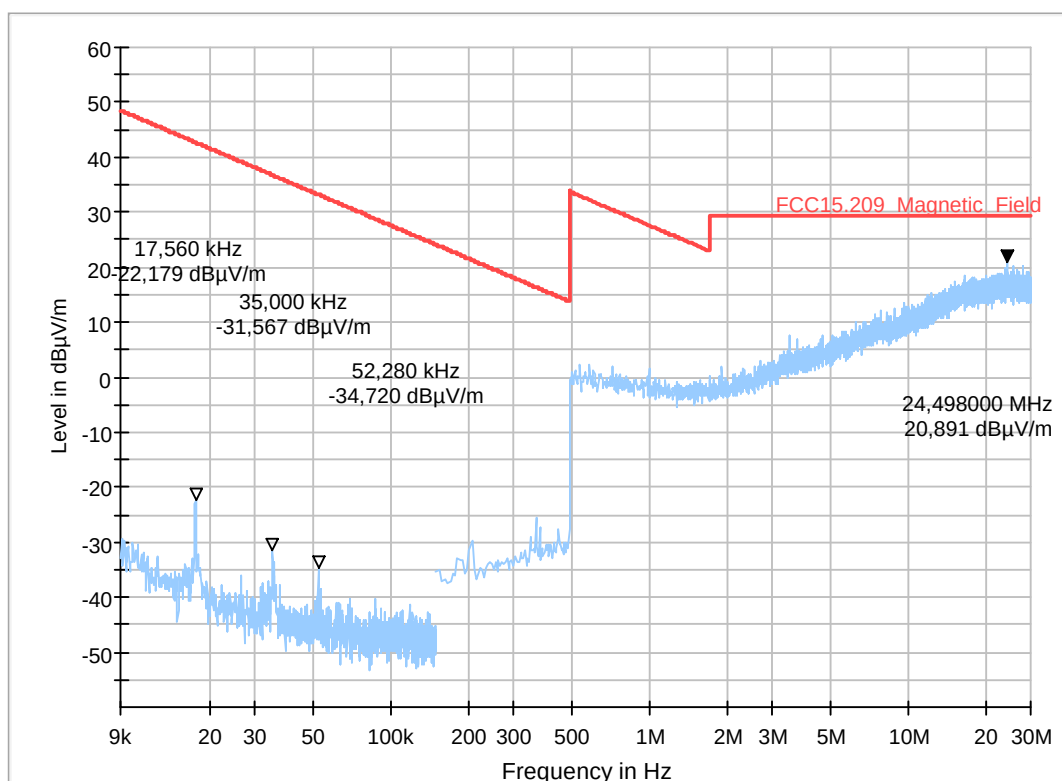


## 2.501\_H\_field\_UMTS\_FDD\_B05\_CH\_4232

### 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:                 | SOz/PSt                                                                 |
| Operating Mode:           | UMTS_FDD_B05_CH_4232                                                    |
| Power during tests:       | 12 V DC                                                                 |
| Comment 1:                | EUT lying                                                               |
| Environmental Conditions: | Humidity : 50%rH; Temperature: 20°C                                     |
| EUT Setup:                | 1                                                                       |
| Verdict:                  | Passed                                                                  |

Full Spectrum

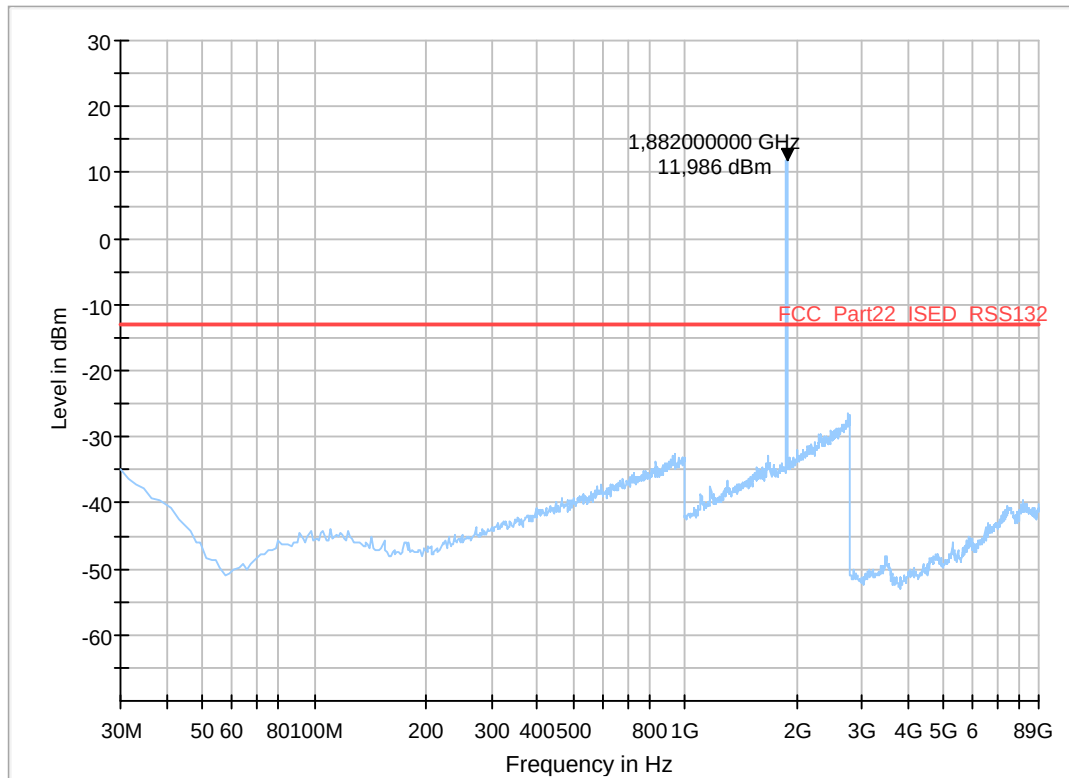


## 8.201a\_Traffic\_mode\_UMTS\_FDD\_B02\_CH\_9400\_lying

### Common Information

|                           |                                     |
|---------------------------|-------------------------------------|
| Test Description:         | Radiated emission                   |
| Test Site:                | Fully Anechoic Chamber              |
| Test Standard:            | FCC FCC Part 24.238 Broadband PCS   |
| Antenna polarisation:     | vertical / horizontal               |
| Operating Mode:           | UMTS_FDD_B02_CH_9400                |
| Operator:                 | ASa                                 |
| Environmental Conditions: | Humidity : 60%rH; Temperature: 20°C |
| EUT Setup:                | lying                               |
| Verdict:                  | Passed                              |

Full Spectrum



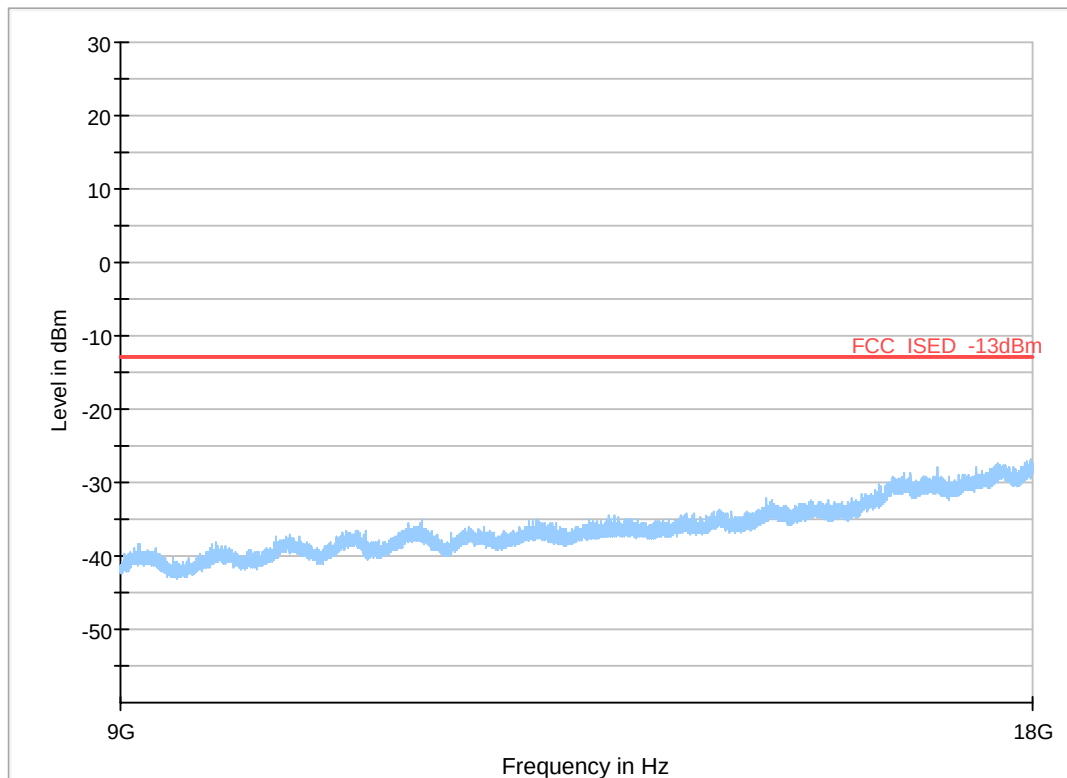
Remark: Emission at 1.88 GHz is uplink frequency of UMTS FDD 2 and not related to emission results.

## 8.201a1\_Traffic\_mode\_UMTS\_FDD\_B02\_CH\_9400\_laying

### Common Information

|                              |                                     |
|------------------------------|-------------------------------------|
| Test Description:            | Radiated emission                   |
| Test Site:                   | Fully-Anechoic Chamber              |
| Test Standard:               | FCC Part 24 / RSS-133               |
| Antenna polarisation:        | vertical / horizontal               |
| Measurement software version | EMC32 V10.60.20                     |
| Operating Mode:              | UMTS_FDD_B02_CH_9400                |
| Operator:                    | PSt, ASa                            |
| Comment:                     | Humidity : 40%rH; Temperature: 20°C |
| EUT Setup:                   | 1                                   |
| Verdict:                     | Passed                              |

Full Spectrum

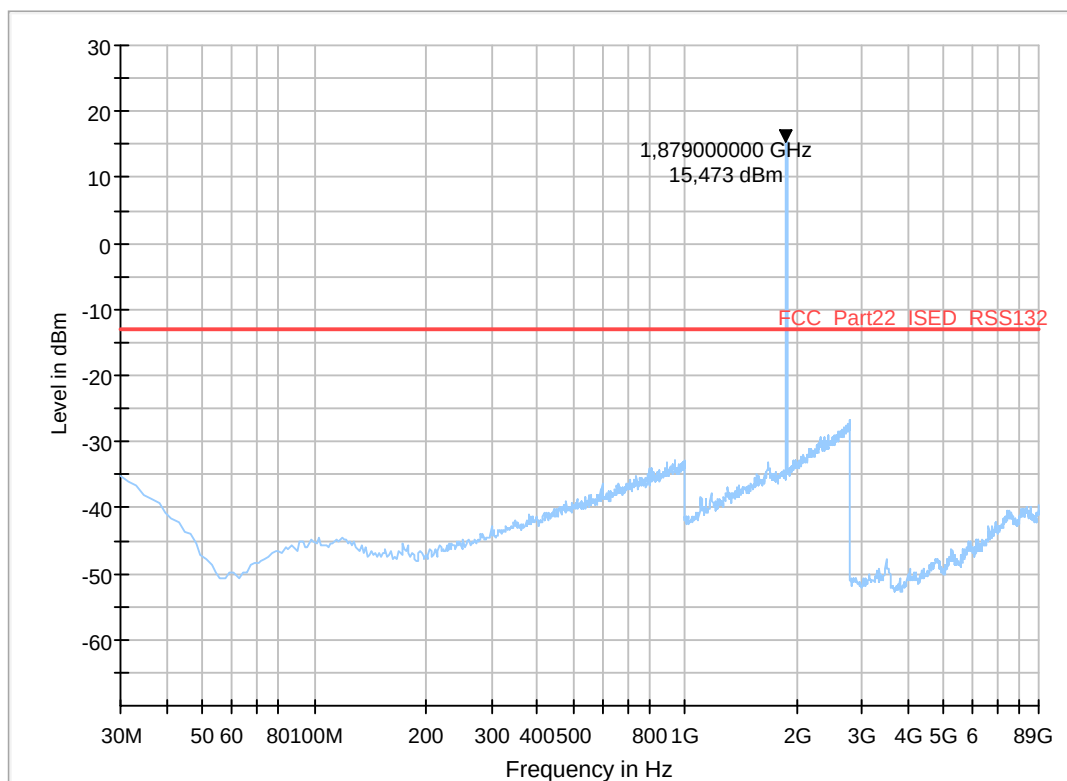


## 8.201b\_Traffic\_mode\_UMTS\_FDD\_B02\_CH\_9400\_standing

### Common Information

|                           |                                     |
|---------------------------|-------------------------------------|
| Test Description:         | Radiated emission                   |
| Test Site:                | Fully Anechoic Chamber              |
| Test Standard:            | FCC Part 24 / RSS-133               |
| Antenna polarisation:     | vertical / horizontal               |
| Operating Mode:           | UMTS_FDD_B02_CH_9400                |
| Operator:                 | ASa                                 |
| Environmental Conditions: | Humidity : 60%rH; Temperature: 20°C |
| EUT Setup:                | standing                            |
| Verdict:                  | Passed                              |

Full Spectrum



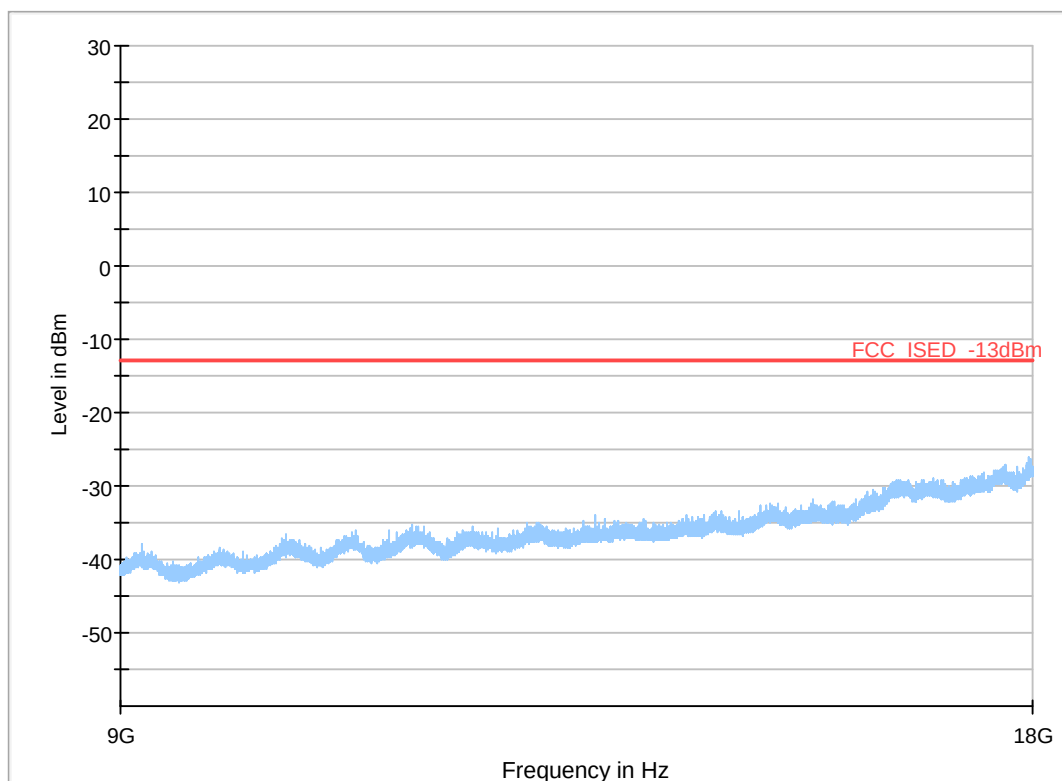
Remark: Emission at 1.88 GHz is uplink frequency of UMTS FDD 2 and not related to emission results.

## 8.201b1\_Traffic\_mode\_UMTS\_FDD\_B02\_CH\_9400\_standing

### Common Information

|                              |                                     |
|------------------------------|-------------------------------------|
| Test Description:            | Radiated emission                   |
| Test Site:                   | Fully-Anechoic Chamber              |
| Test Standard:               | FCC Part 24 / RSS-133               |
| Antenna polarisation:        | vertical / horizontal               |
| Measurement software version | EMC32 V10.60.20                     |
| Operating Mode:              | UMTS_FDD_B02_CH_9400                |
| Operator:                    | ASa                                 |
| Comment:Environmental        | Humidity : 60%rH; Temperature: 20°C |
| EUT Setup:                   | standing                            |
| Verdict:                     | Passed                              |

Full Spectrum

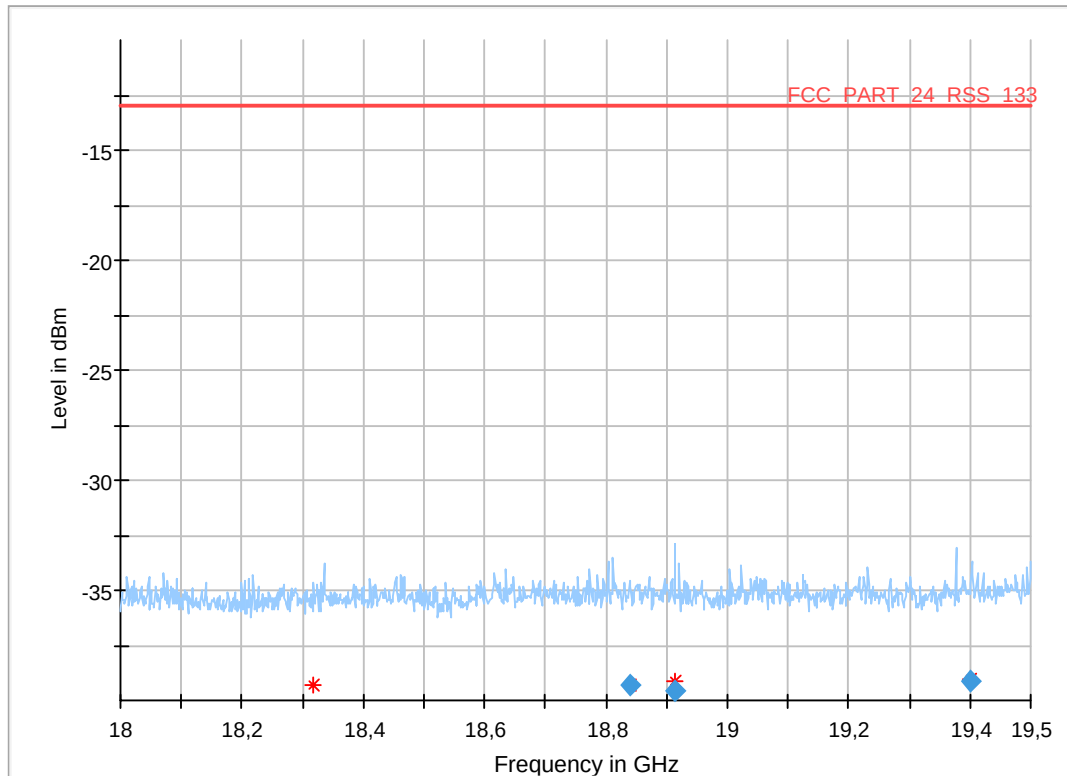


## 8.202\_02\_Traffic\_mode\_UMTS\_FDD\_B02\_CH\_9400\_AntV\_laying

### Common Information

|                           |                                           |
|---------------------------|-------------------------------------------|
| Test Description:         | Radiated Spurious Emissions W-CDMA II     |
| Test Site Location:       | CETECOM GmbH Essen                        |
| Test Site:                | Fully Anechoic Room (FAR2)                |
| Test Standard:            | FCC Part 24.238 / RSS-133                 |
| Comm. Link:               | W-CDMA RMC99 CS                           |
| Operating Mode:           | MS allocated channel 9400(UL = 1880.0MHz) |
| Exclusionband:            | 1850- 1910MHz                             |
| Environmental Conditions: | Humidity: 37%rH; Temperature: 22.6°C      |
| Operator:                 | Lor                                       |
| Verdict:                  | Passed                                    |

Full Spectrum



### Final Result

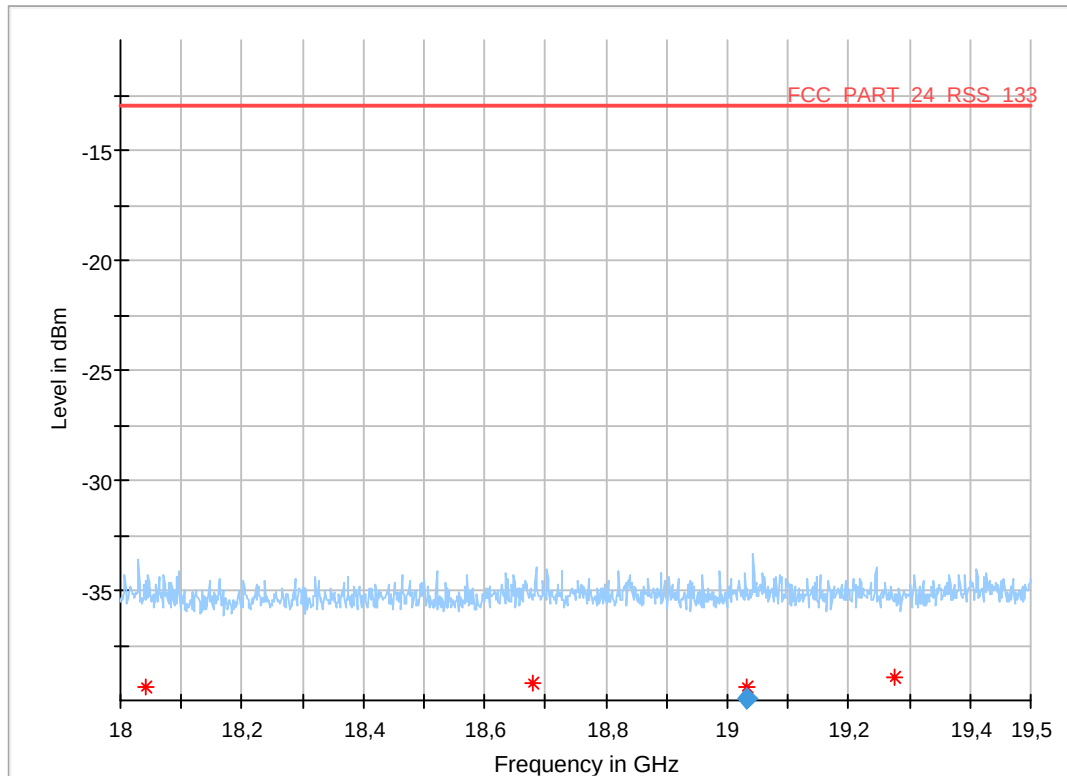
| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Sig Path (dB) | Preamp (dB) | Trd Corr. (dB) |
|-----------------|-------------|-------------|-----------------|-------------|-----|---------------|------------|---------------|-------------|----------------|
| 18316.920000    | -13.00      | 27.09       | 500.0           | 155.0       | V   | 194.0         | -56.1      | 2.3           | 63.7        | -122.2         |
| 18838.980000    | -13.00      | 26.28       | 500.0           | 155.0       | V   | 345.0         | -56.1      | 2.4           | 64.0        | -122.4         |
| 18912.600000    | -13.00      | 26.54       | 500.0           | 155.0       | V   | 336.0         | -56.1      | 2.4           | 64.0        | -122.5         |
| 19400.100000    | -13.00      | 26.12       | 500.0           | 155.0       | V   | 171.0         | -56.0      | 2.4           | 64.2        | -122.7         |

## 8.202\_02\_Traffic\_mode\_UMTS\_FDD\_B02\_CH\_9400\_AntV\_standing

### Common Information

|                           |                                           |
|---------------------------|-------------------------------------------|
| Test Description:         | Radiated Spurious Emissions W-CDMA II     |
| Test Site Location:       | CETECOM GmbH Essen                        |
| Test Site:                | Fully Anechoic Room (FAR2)                |
| Test Standard:            | FCC Part 24.238 / RSS-133                 |
| Comm. Link:               | W-CDMA RMC99 CS                           |
| Operating Mode:           | MS allocated channel 9400(UL = 1880.0MHz) |
| Exclusionband:            | 1850- 1910MHz                             |
| Environmental Conditions: | Humidity: 37%rH; Temperature: 22.6°C      |
| Operator:                 | Lor                                       |
| Verdict:                  | Passed                                    |

Full Spectrum



### Final Result

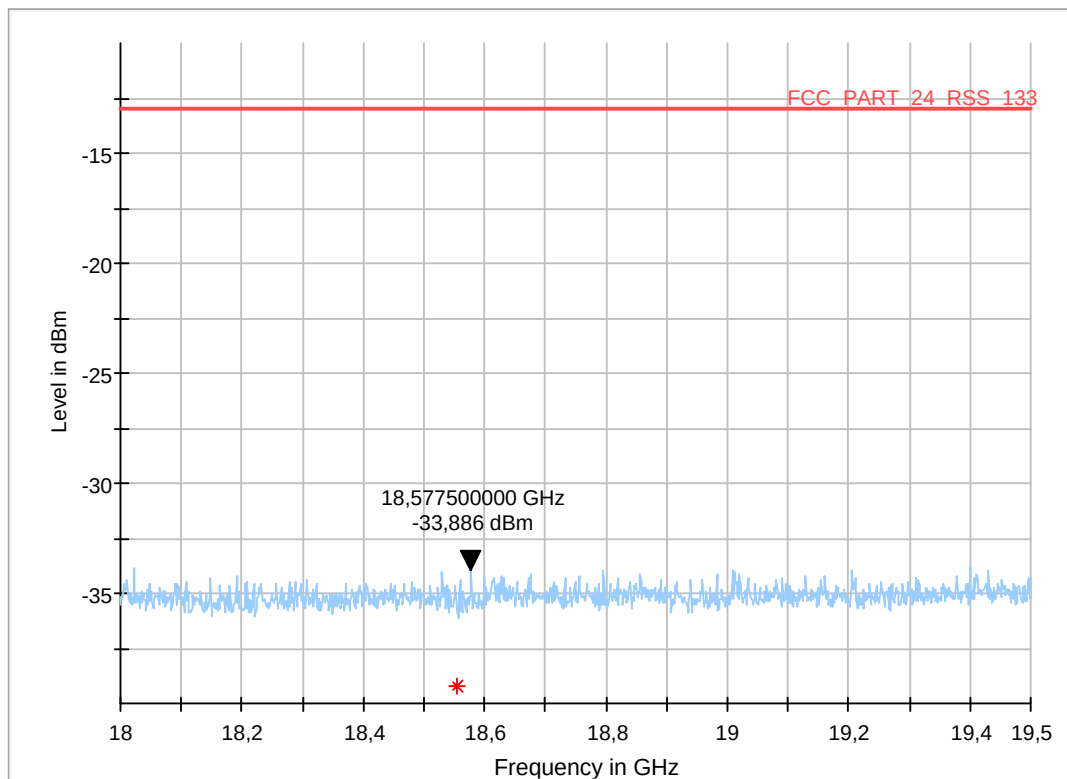
| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Sig Path (dB) | Preamp (dB) | Trd Corr. (dB) |
|-----------------|-------------|-------------|-----------------|-------------|-----|---------------|------------|---------------|-------------|----------------|
| 18040.680000    | -13.00      | 27.01       | 500.0           | 155.0       | V   | 77.0          | -56.2      | 2.3           | 63.6        | -122.1         |
| 18679.800000    | -13.00      | 27.10       | 500.0           | 155.0       | V   | 241.0         | -56.1      | 2.4           | 63.9        | -122.4         |
| 19031.220000    | -13.00      | 26.94       | 500.0           | 155.0       | V   | 74.0          | -56.1      | 2.4           | 64.1        | -122.5         |
| 19275.240000    | -13.00      | 27.10       | 500.0           | 155.0       | V   | 263.0         | -56.1      | 2.4           | 64.2        | -122.6         |

## 8.202\_01\_Traffic\_mode\_UMTS\_FDD\_B02\_CH\_9400\_AntH\_laying

### Common Information

|                           |                                           |
|---------------------------|-------------------------------------------|
| Test Description:         | Radiated Spurious Emissions W-CDMA II     |
| Test Site Location:       | CETECOM GmbH Essen                        |
| Test Site:                | Fully Anechoic Room (FAR2)                |
| Test Standard:            | FCC Part 24.238 / RSS-133                 |
| Comm. Link:               | W-CDMA RMC99 CS                           |
| Operating Mode:           | MS allocated channel 9400(UL = 1880.0MHz) |
| Exclusionband:            | 1850- 1910MHz                             |
| Environmental Conditions: | Humidity: 37%rH; Temperature: 22.6°C      |
| Operator:                 | Lor                                       |
| Verdict:                  | Passed                                    |

Full Spectrum

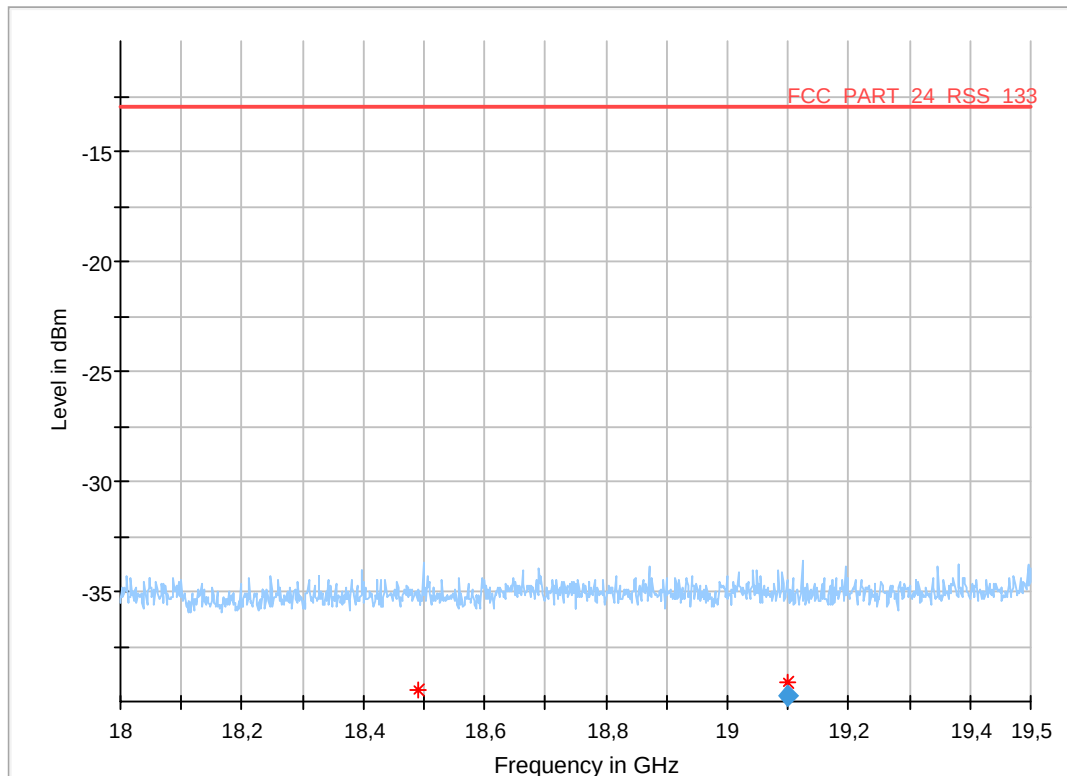


## 8.202\_01\_Traffic\_mode\_UMTS\_FDD\_B02\_CH\_9400\_Anth\_s tanding

### Common Information

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Test Description:         | Radiated Spurious Emissions W-CDMA II                                                   |
| Test Site Location:       | CETECOM GmbH Essen                                                                      |
| Test Site:                | Fully Anechoic Room (FAR2)                                                              |
| Test Standard:            | FCC Part 24.238 / RSS-133                                                               |
| Comm. Link:               | W-CDMA RMC99 CS                                                                         |
| Operating Mode:           | MS allocated channel 9262 (UL = 1850.2MHz), 9400(UL = 1880.0MHz), 9538 (UL = 1909.8MHz) |
| Exclusionband:            | 1850- 1910MHz                                                                           |
| Environmental Conditions: | Humidity: 37%rH; Temperature: 22.6°C                                                    |
| Operator:                 | Lor                                                                                     |
| Verdict:                  | Passed                                                                                  |

Full Spectrum

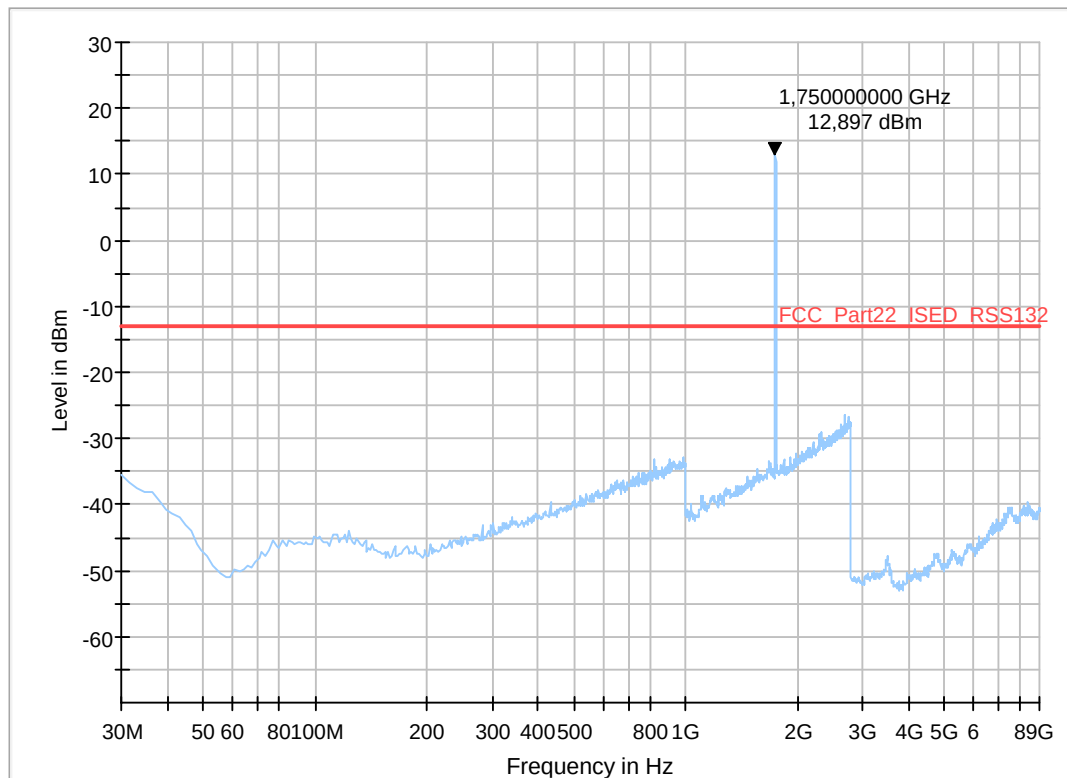


## 8.401a\_Traffic\_mode\_UMTS\_FDD\_B04\_CH\_1512\_lying

### Common Information

|                           |                                     |
|---------------------------|-------------------------------------|
| Test Description:         | Radiated emission                   |
| Test Site:                | Fully Anechoic Chamber              |
| Test Standard:            | FCC Part 27 / RSS-139               |
| Antenna polarisation:     | vertical / horizontal               |
| Operating Mode:           | UMTS_FDD_B04_CH_1512                |
| Operator:                 | PSt, ASa                            |
| Comment:                  | lying                               |
| Environmental Conditions: | Humidity : 60%rH; Temperature: 20°C |
| EUT Setup:                | 01                                  |
| Verdict:                  | Passed                              |

Full Spectrum



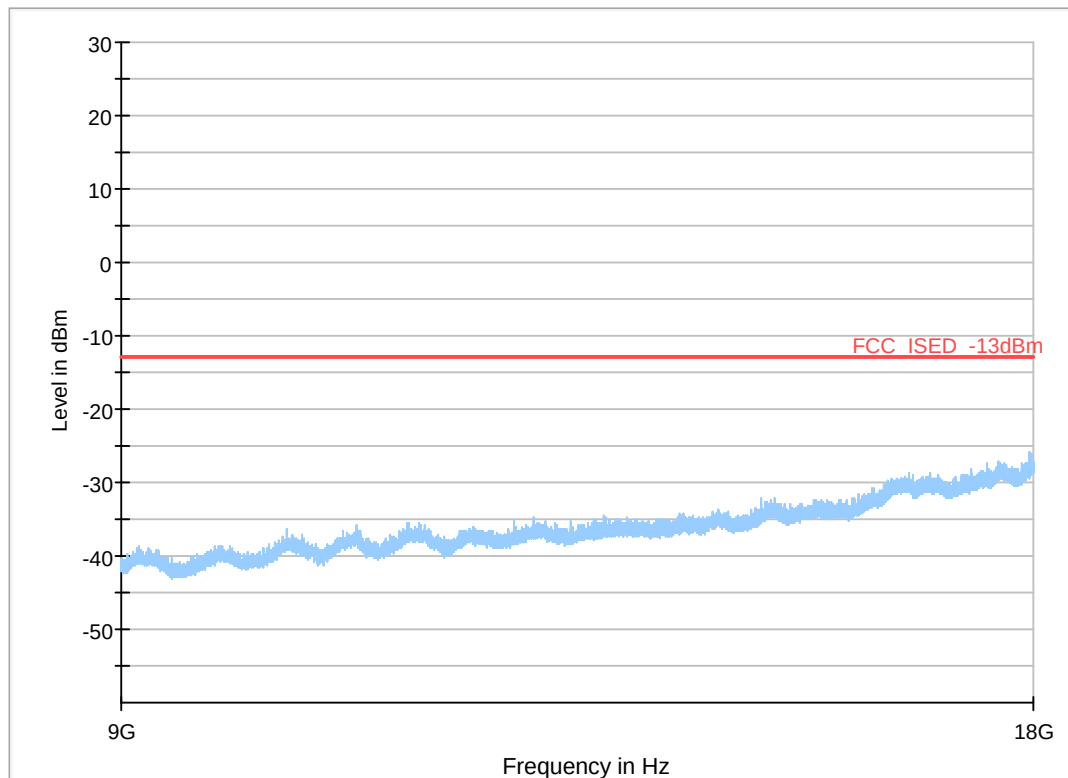
Remark: Emission at 1.75 GHz is uplink frequency of UMTS FDD 4 and not related to emission results.

## 8.401a1\_Traffic\_mode\_UMTS\_FDD\_B04\_CH\_1512\_lying

### Common Information

|                              |                        |
|------------------------------|------------------------|
| Test Description:            | Radiated emission      |
| Test Site:                   | Fully-Anechoic Chamber |
| Test Standard:               | FCC Part 27 / RSS-139  |
| Antenna polarisation:        | vertical / horizontal  |
| Measurement software version | EMC32 V10.60.20        |
| Operating Mode:              | UMTS_FDD_B04_CH_1512   |
| Operator:                    | PSt, ASa               |
| Comment:                     | lying                  |
| EUT Setup:                   | 1                      |
| Verdict:                     | Passed                 |

Full Spectrum

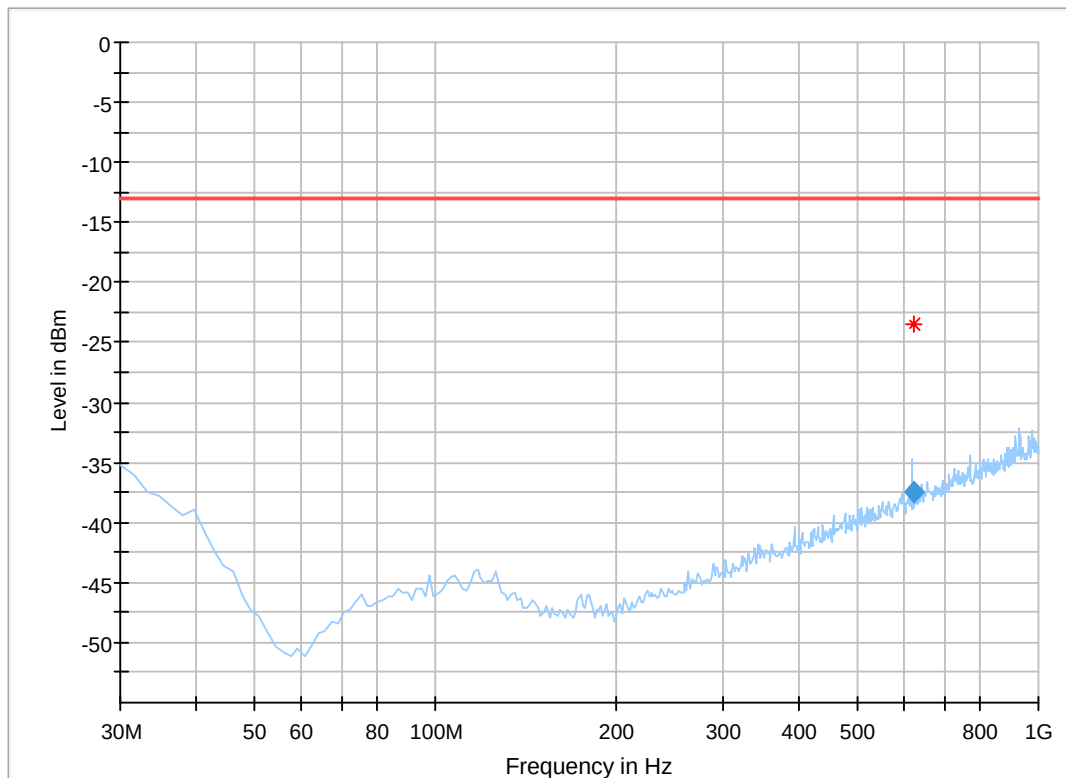


## 8.401b\_Traffic\_mode\_UMTS\_FDD\_B04\_CH\_1512\_standing

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Radiated emission related to 1m                 |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC FCC Part 24.238 Broadband PCS               |
| Antenna polarisation:     | vertical / horizontal                           |
| Operating Mode:           | UMTS_FDD_B04_CH_1512                            |
| Operator:                 | PSt, ASa                                        |
| Comment:                  | Standing                                        |
| Environmental Conditions: | Humidity : 60%rH; Temperature: 20°C             |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum



### Final Result

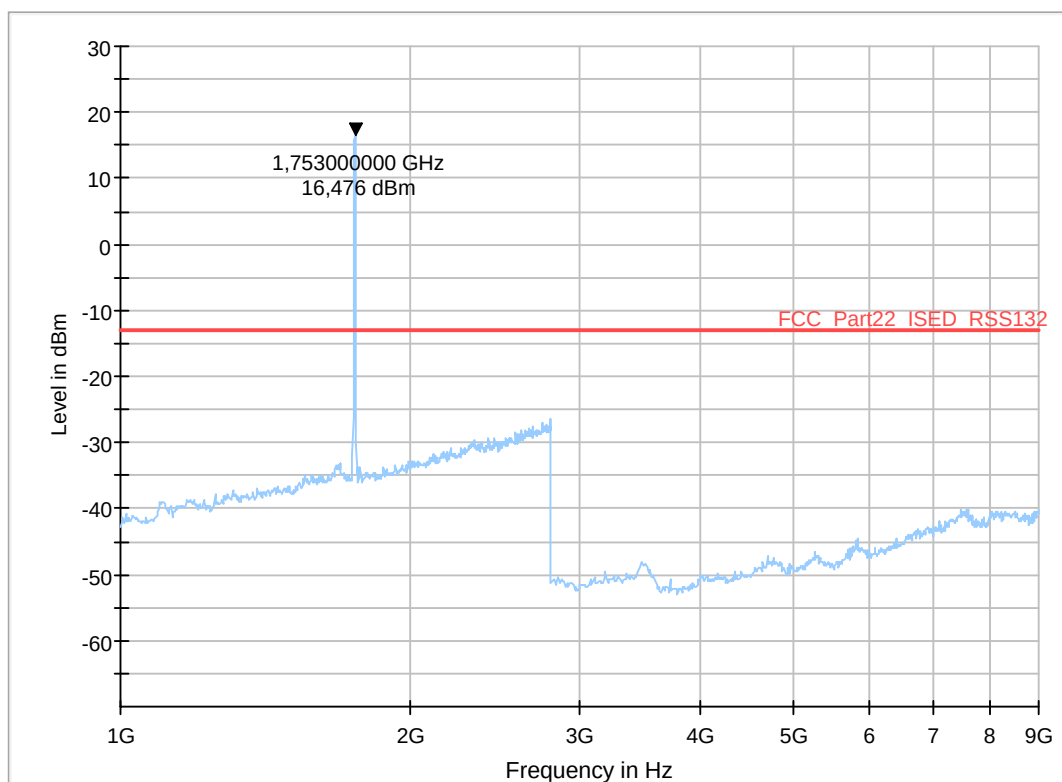
| Frequency (MHz) | MaxPeak (dBm) | Limit (dBm) | Margin | Meas. Time (ms) | Bandwidth | Height | Pol | Azimuth | Elevation | Corr. (dB) | Comment               |
|-----------------|---------------|-------------|--------|-----------------|-----------|--------|-----|---------|-----------|------------|-----------------------|
| 620.900000      | -37.41        | -13.00      | 24.41  | 100.0           | 100.000   | 155.0  | H   | 138.0   | 0.0       | -79        | 14:20:12 - 04.12.2023 |

## 8.401b1\_Traffic\_mode\_UMTS\_FDD\_B04\_CH\_1512\_standing

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Radiated emission related to 1m                 |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC FCC Part 24.238 Broadband PCS               |
| Antenna polarisation:     | vertical / horizontal                           |
| Operating Mode:           | UMTS_FDD_B04_CH_1512                            |
| Operator:                 | PSt, ASa                                        |
| Comment:                  | Standing                                        |
| Environmental Conditions: | Humidity : 60%rH; Temperature: 20°C             |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum

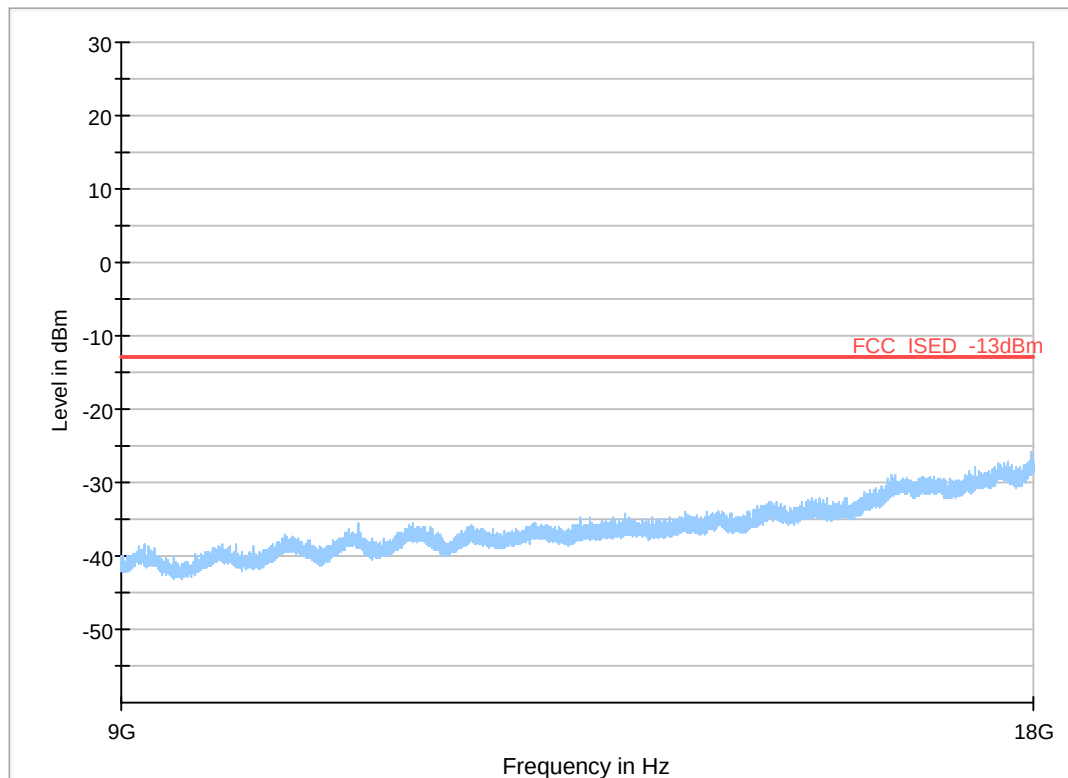


## 8.401b2\_Traffic\_mode\_UMTS\_FDD\_B04\_CH\_1512\_standing

### Common Information

|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Test Description:            | Radiated emission                                            |
| Test Site:                   | Fully-Anechoic Chamber                                       |
| Test Standard:               | FCC FCC Part 27.53(h) AWS emission limits / RSS-139, Issue 3 |
| Antenna polarisation:        | vertical / horizontal                                        |
| Measurement software version | EMC32 V10.60.20                                              |
| Operating Mode:              | UMTS FDD 04, CH 1512 BW 5 MHz                                |
| Operator:                    | PSt, ASa                                                     |
| Comment:                     | standing                                                     |
| EUT Setup:                   | 1                                                            |
| Verdict:                     | Passed                                                       |

Full Spectrum

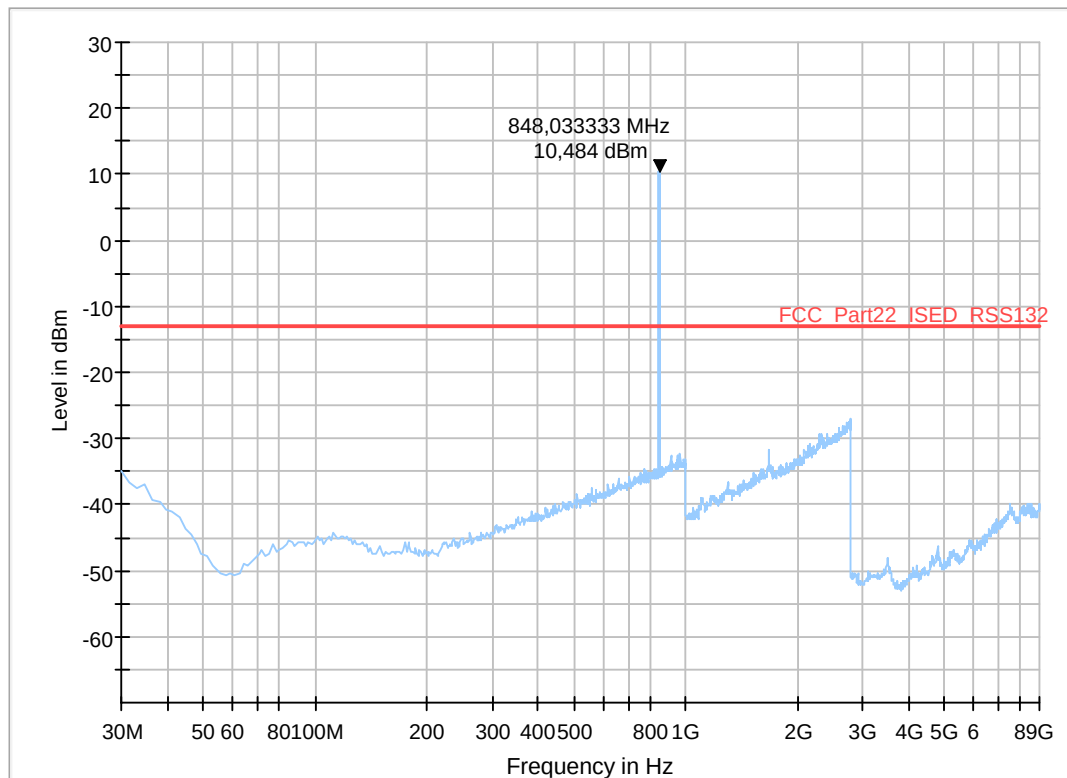


## 8.501a\_Traffic\_mode\_UMTS\_FDD\_B05\_CH\_4232\_laying

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Radiated emission related to 1m                 |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC FCC Part 24.238 Broadband PCS               |
| Antenna polarisation:     | vertical / horizontal                           |
| Operating Mode:           | UMTS_FDD_B05_CH_4232                            |
| Operator:                 | ASa                                             |
| Comment:                  | laying                                          |
| Environmental Conditions: | Humidity : 60%rH; Temperature: 20°C             |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum

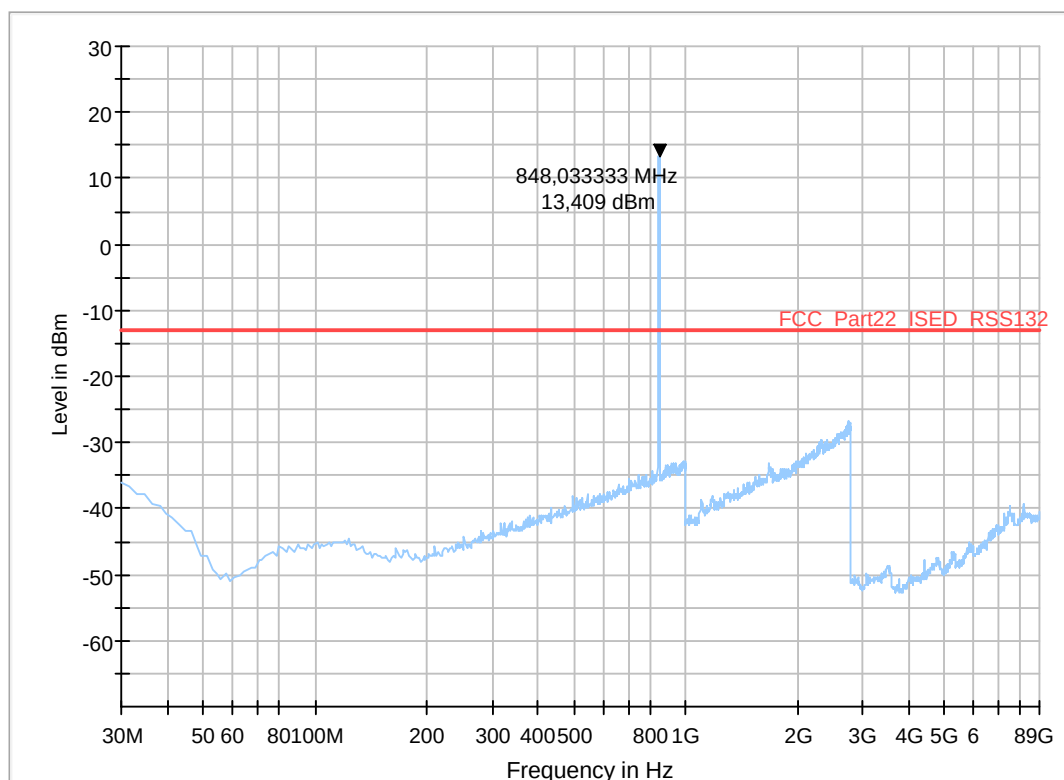


## 8.501b\_Traffic\_mode\_UMTS\_FDD\_B05\_CH\_4232\_standing

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Radiated emission related to 1m                 |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC FCC Part 24.238 Broadband PCS               |
| Antenna polarisation:     | vertical / horizontal                           |
| Operating Mode:           | UMTS_FDD_B05_CH_4232                            |
| Operator:                 | ASa                                             |
| Comment:                  | Standing                                        |
| Environmental Conditions: | Humidity : 60%rH; Temperature: 20°C             |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum

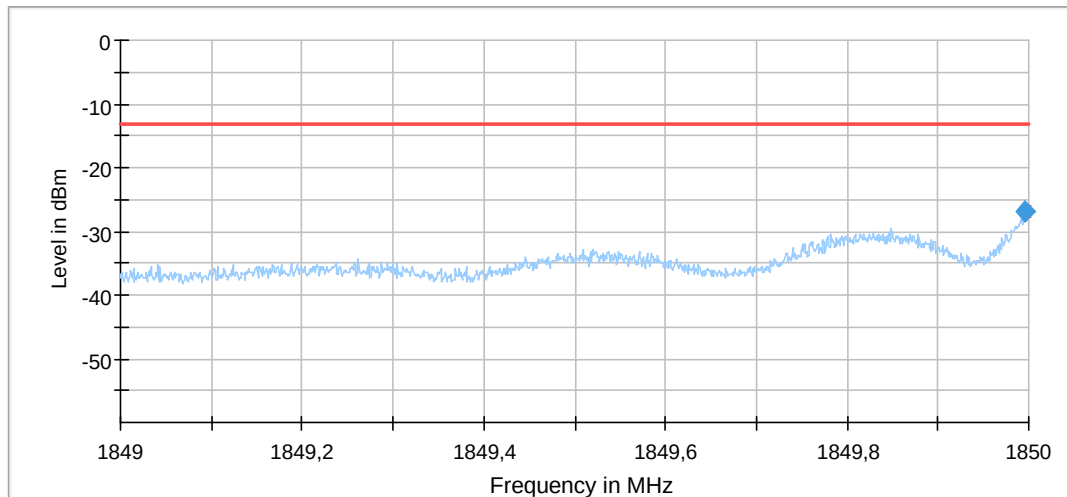


## 9.201\_Bandedge\_low\_Channel\_9262\_UL\_1852.4\_laying

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 24                                     |
| Test Case:                | Bandedge_low_Channel_9262_UL_1852.4_laying      |
| Operating Mode:           | TX                                              |
| Environmental Conditions: | Humidity : 50%rH; Temperature: 20°C             |
| Operator:                 | MNu                                             |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum



### Final Result

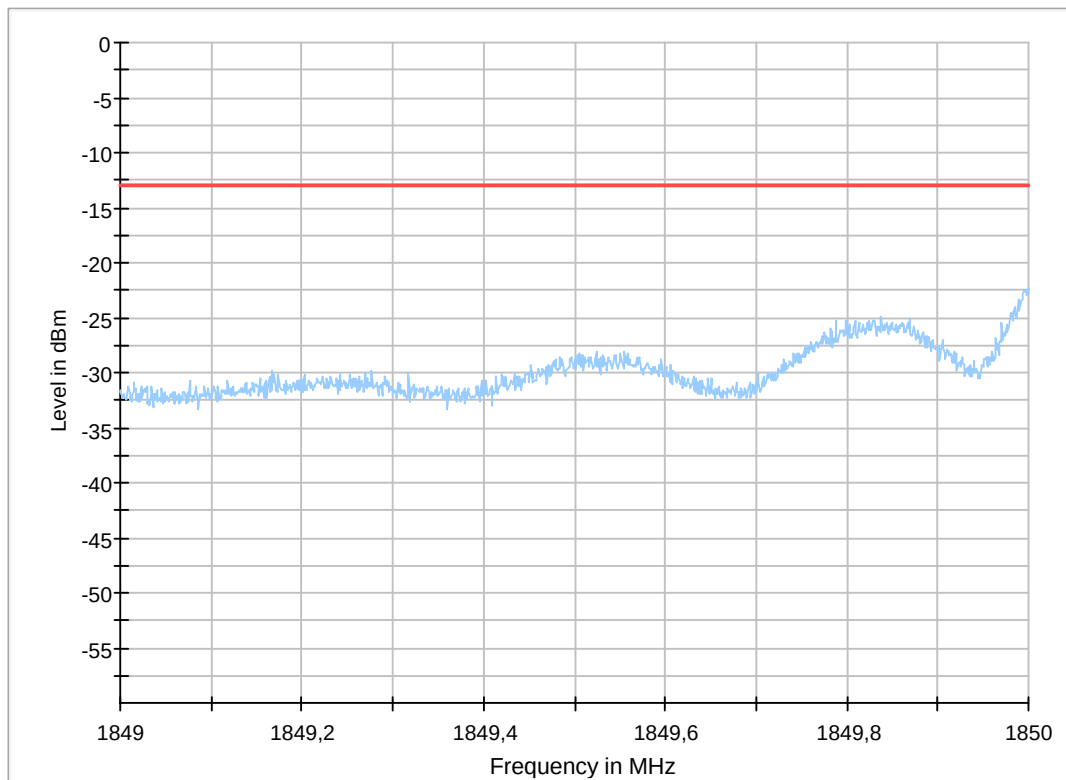
| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Corr. (dB) | Sig Path (dB) |
|-----------------|-----------|-------------|-------------|-----------------|-----------------|-----|---------------|------------|---------------|
| 1849.996000     | -26.78    | -13.00      | 13.78       | 500.0           | 50.000          | H   | 284.0         | -62        | 6             |

## 9.201\_Bandedge\_low\_Channel\_9262\_UL\_1852.4\_standing

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band-Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 24.238                                 |
| Operating Mode:           | Bandedge_high_Channel_4233_UL_846.6_standing    |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 20°C              |
| Operator:                 | ASa                                             |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum

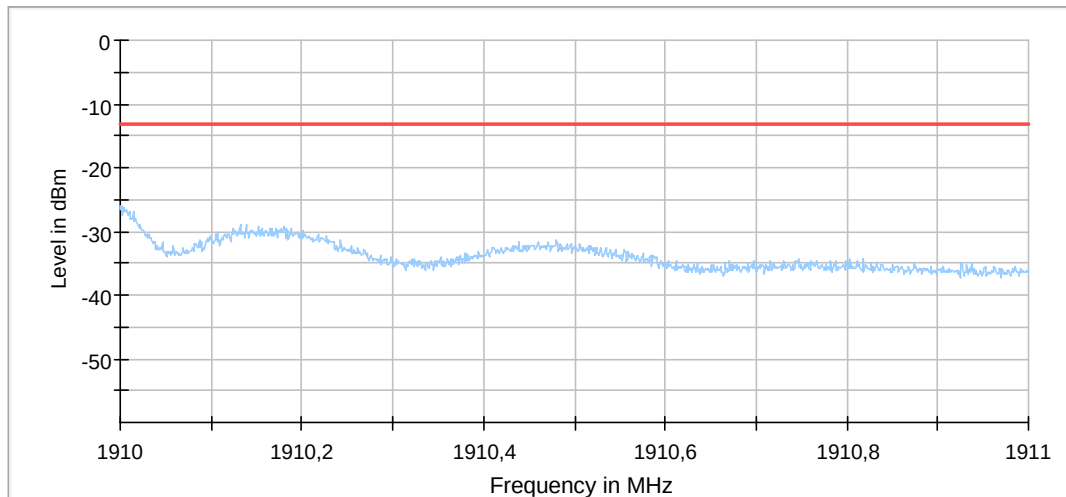


## 9.202\_Bandedge\_high\_Channel\_9538\_UL\_1907.6\_laying

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 24                                     |
| Test Case:                | Bandedge_high_Channel_9538_UL_1907.6_laying     |
| Operating Mode:           | TX                                              |
| Environmental Conditions: | Humidity : 50%rH; Temperature: 20°C             |
| Operator:                 | MNu                                             |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum

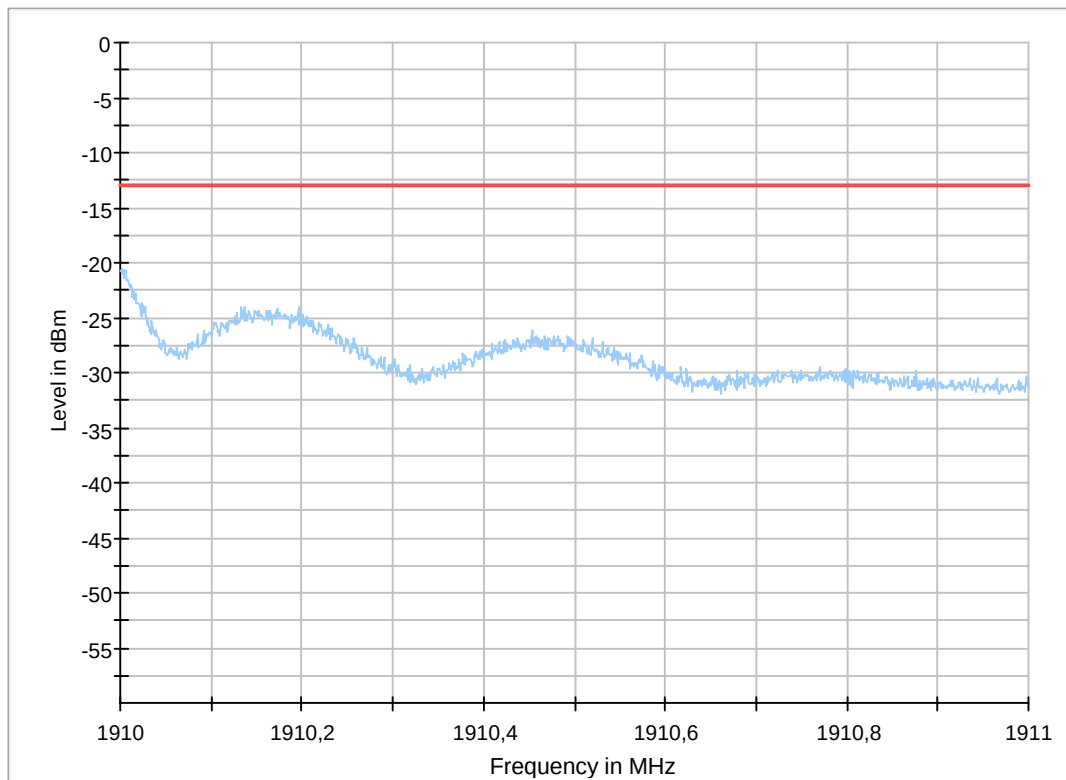


## 9.202\_Bandedge\_high\_Channel\_9538\_UL\_1907.6\_standing

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band-Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 24.238                                 |
| Operating Mode:           | Bandedge_high_Channel_9538_UL_1907.6_standing   |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 20°C              |
| Operator:                 | ASa                                             |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum

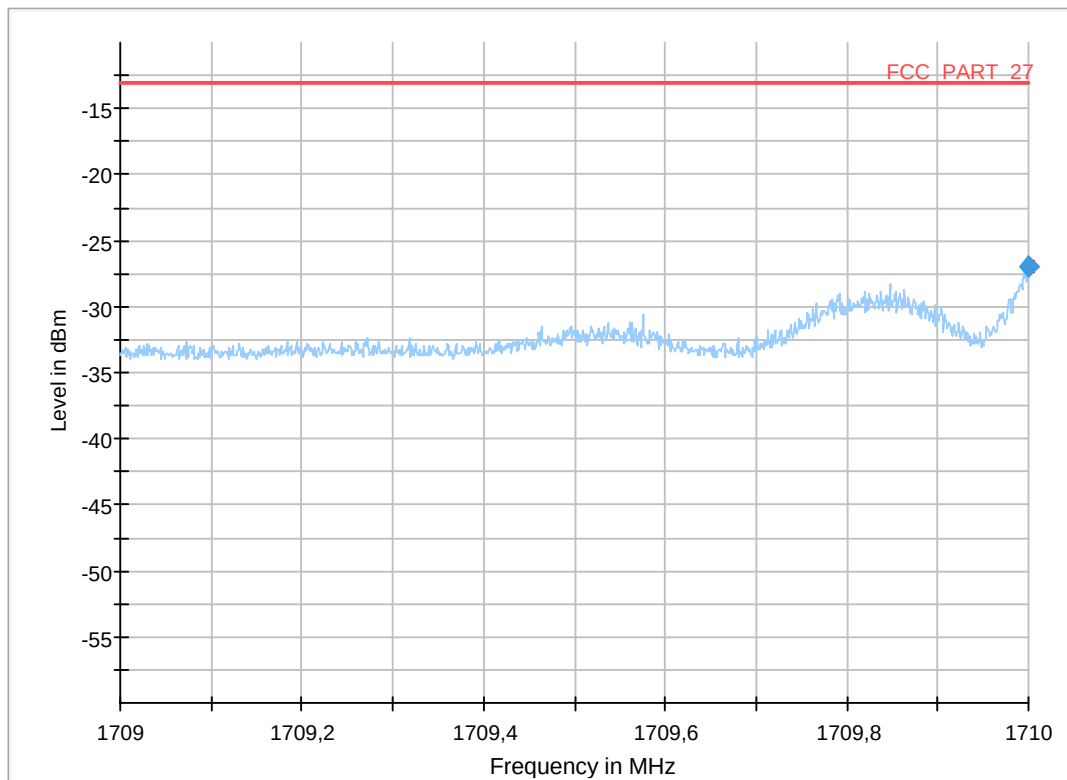


## 9.401\_Bandedge\_low\_Channel\_1312\_UL\_1712.6\_laying

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band-Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 27.53(l)(4) / RSS-130                  |
| Operating Mode:           | Bandedge_low_Channel_1312_UL_1712.6_laying      |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 20°C              |
| Operator:                 | MNu/ASa                                         |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum



### Final Result

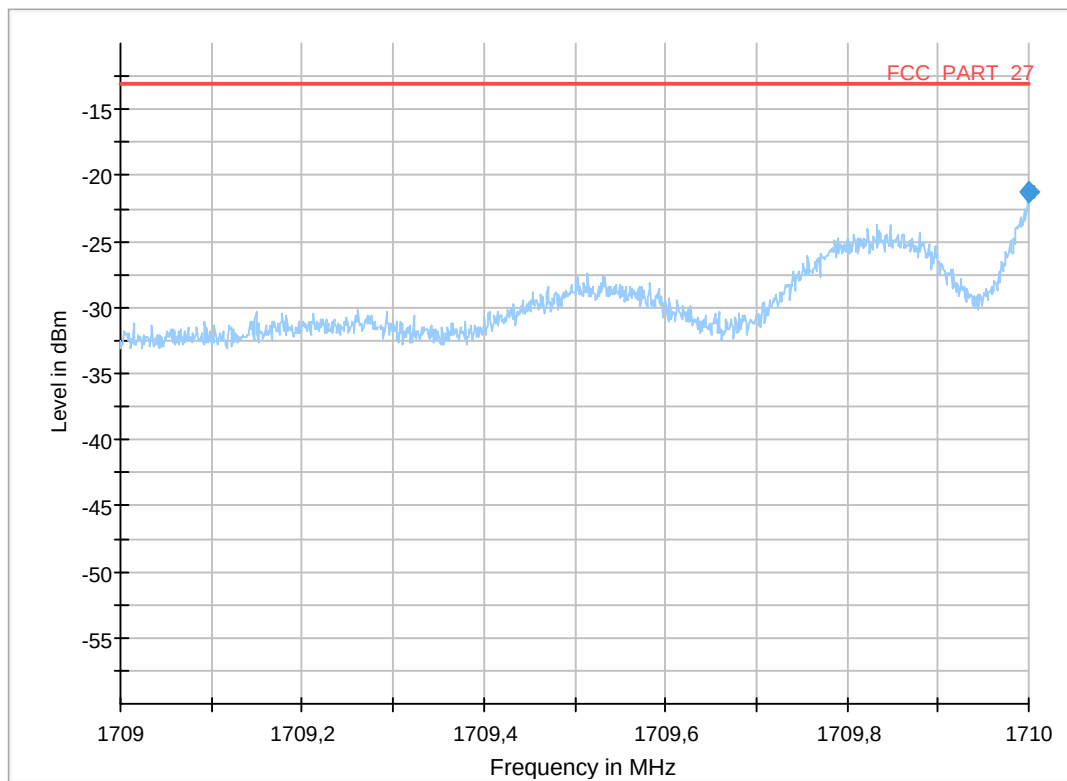
| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-----------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 1710.000000     | -26.96    | -13.00      | 13.96       | 700.0           | 50.000          | H   | 285.0         | 0.0             | -62        |

## 9.401\_Bandedge\_low\_Channel\_1312\_UL\_1712.6\_standing

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 27                                     |
| Operating Mode:           | Bandedge_low_Channel_1312_UL_1712.6_standing    |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 20°C              |
| Operator:                 | MNu/ASa                                         |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum



### Final Result

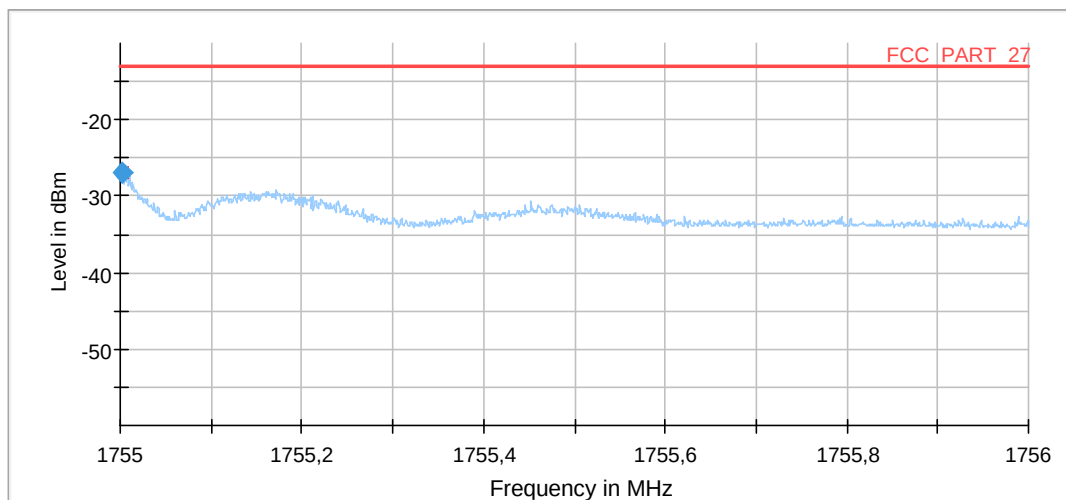
| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-----------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 1709.999000     | -21.24    | -13.00      | 8.24        | 700.0           | 50.000          | V   | 40.0          | 0.0             | -62        |

## 9.402\_Bandedge\_high\_Channel\_1513\_UL\_1752.4\_laying

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 27                                     |
| Test Case:                | Bandedge_high_Channel_1513_UL_1752.4_laying     |
| Operating Mode:           | TX                                              |
| Environmental Conditions: | Humidity : 50%rH; Temperature: 20°C             |
| Operator:                 | MNu                                             |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum



### Final Result

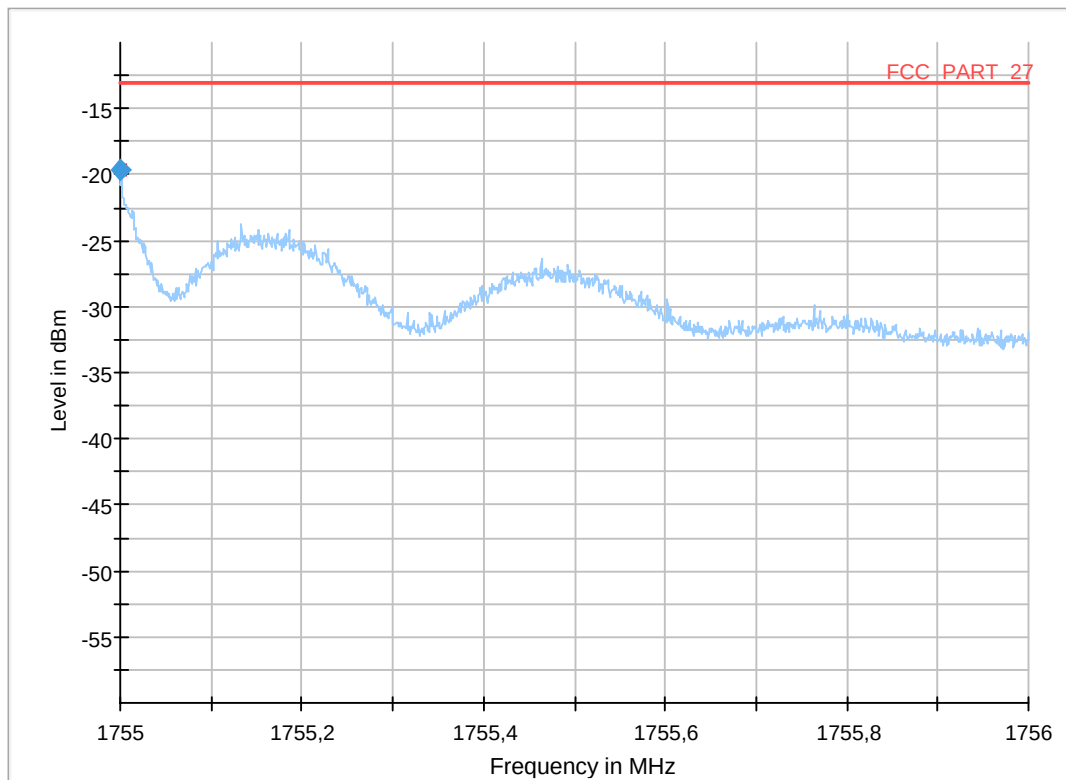
| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-----------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 1755.002000     | -26.93    | -13.00      | 13.93       | 700.0           | 50.000          | H   | 282.0         | 0.0             | -62        |

## 9.402\_Bandedge\_high\_Channel\_1513\_UL\_1752.4\_standing

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 27                                     |
| Operating Mode:           | Bandedge_high_Channel_1513_UL_1752.4_standing   |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 20°C              |
| Operator:                 | MNu/ASa                                         |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum



### Final Result

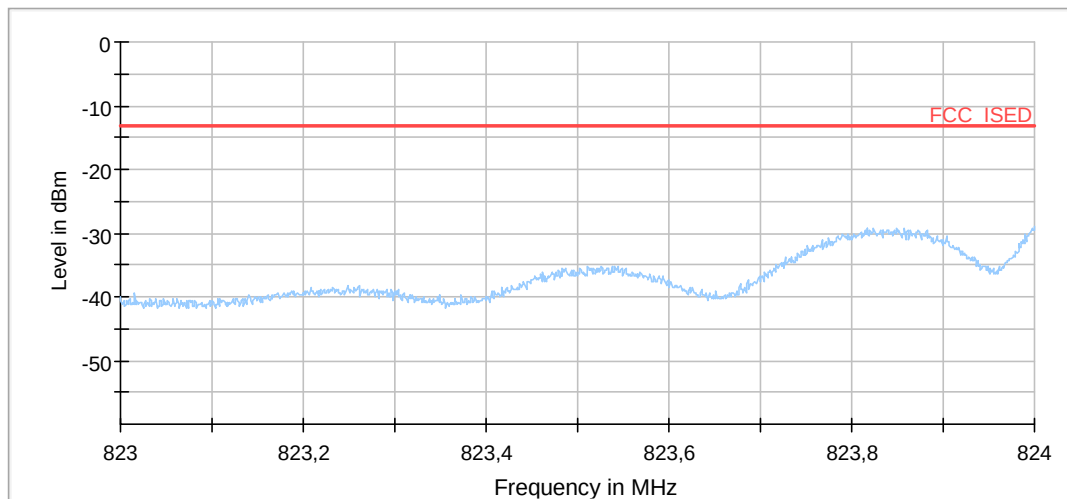
| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|-----------|-------------|-------------|-----------------|-----------------|-----|---------------|-----------------|------------|
| 1755.000000     | -19.69    | -13.00      | 6.69        | 700.0           | 50.000          | V   | 36.0          | 0.0             | -62        |

## 9.501\_Bandedge\_low\_Channel\_4132\_UL\_826.4\_laying

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 22.917(a) / RSS-132                    |
| Operating Mode:           | Bandedge_low_Channel_4132_UL_826.4_laying       |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 20°C              |
| Test SW Version:          | EMC32 V10.60.20                                 |
| Operator:                 | MNu                                             |
| Remarks:                  | EUT - laying position                           |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum

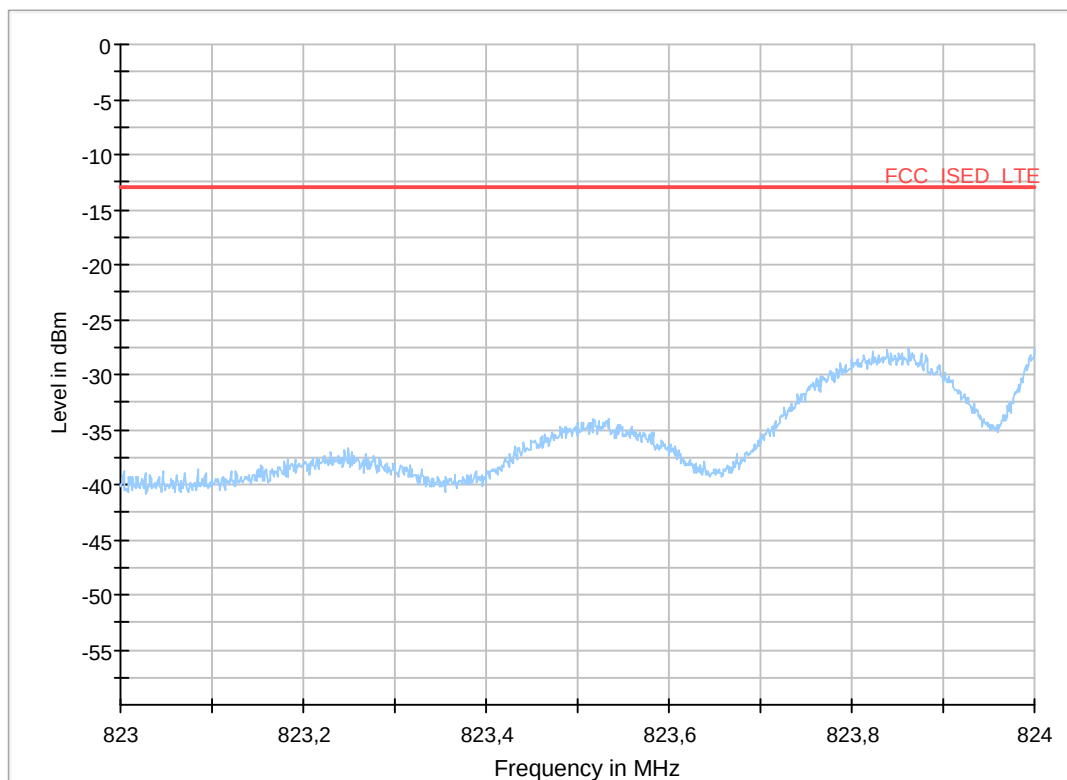


## 9.501\_Bandedge\_low\_Channel\_4132\_UL\_826.4\_standing

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 22.917(a) / RSS-132                    |
| Operating Mode:           | Bandedge_low_Channel_4132_UL_826.4_standing     |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 20°C              |
| Operator:                 | ASa                                             |
| Remarks:                  | EUT - standing position                         |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum

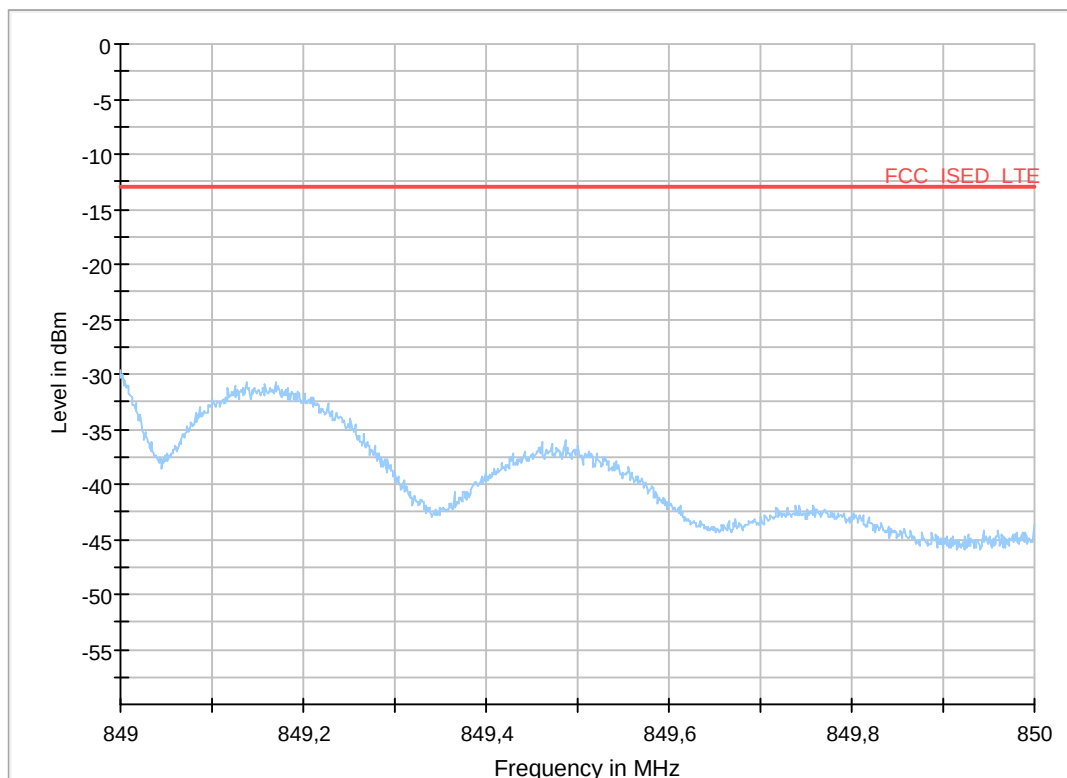


## 9.502\_Bandedge\_high\_Channel\_4233\_UL\_846.6\_laying

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band-Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 22.917(a) / RSS-132                    |
| Operating Mode:           | Bandedge_high_Channel_4233_UL_846.6_laying      |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 20°C              |
| Test SW Version:          | EMC32 V10.60.20                                 |
| Operator:                 | MNu                                             |
| Remarks:                  | EUT - laying position                           |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum

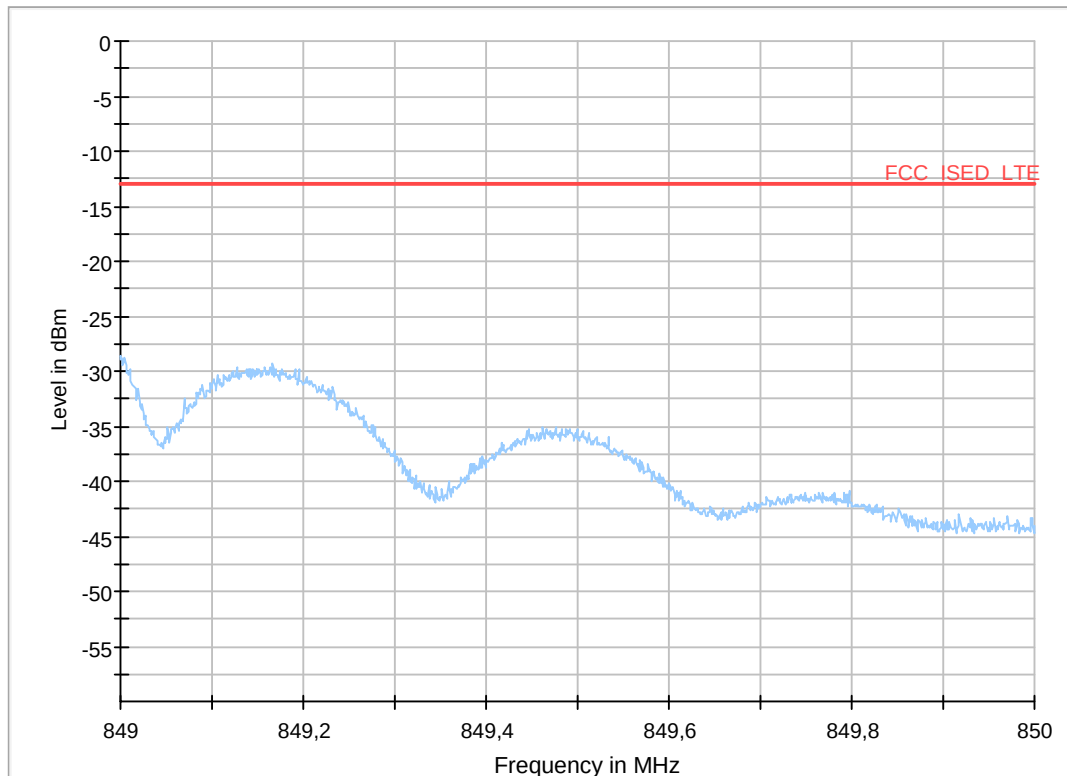


## 9.502\_Bandedge\_high\_Channel\_4233\_UL\_846.6\_standing

### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Band-Edge                                       |
| Test Site Location:       | cetecom advanced GmbH Essen                     |
| Test Site:                | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:            | FCC Part 22.917(a) / RSS-132                    |
| Operating Mode:           | Bandedge_high_Channel_4233_UL_846.6_standing    |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 20°C              |
| Operator:                 | ASa                                             |
| Remarks:                  | EUT - standing position                         |
| EUT Setup:                | 01                                              |
| Verdict:                  | Passed                                          |

Full Spectrum



**End Of Annex 1**