

## Annex 1: Measurement diagrams to Test Report 18-1-0097204T01a-A1

|                                                                 |                                                                                                                                                                                                                                                                                                                                           |                        |                 |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|
| <b>Number of pages:</b>                                         | 6                                                                                                                                                                                                                                                                                                                                         | <b>Date of Report:</b> | 2021-Aug-17     |
| <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>Test Object /<br/>Tested Device(s):</b>                      | Telematics Device /<br>103360002                                                                                                                                                                                                                                                                                                          |                        |                 |
| <b>FCC ID:</b>                                                  | 2AGKK103360002                                                                                                                                                                                                                                                                                                                            | <b>ISED ID:</b>        | 20839-103360002 |
| <b>Testing has been<br/>carried out in<br/>accordance with:</b> | <b>Title 47 CFR, Chapter I</b><br><b>FCC Regulations, Subchapter A</b><br>Subpart B: §15.109 (Class B limits)<br><br><b>ISED Regulations</b><br>ICES-003, Issue 6 (Class B limits)<br><br>Deviations, modifications or clarifications (if any) to above mentioned documents are written<br>in each section under "Test method and limit". |                        |                 |

## 1 Measurement diagrams

### 3.01\_Laying

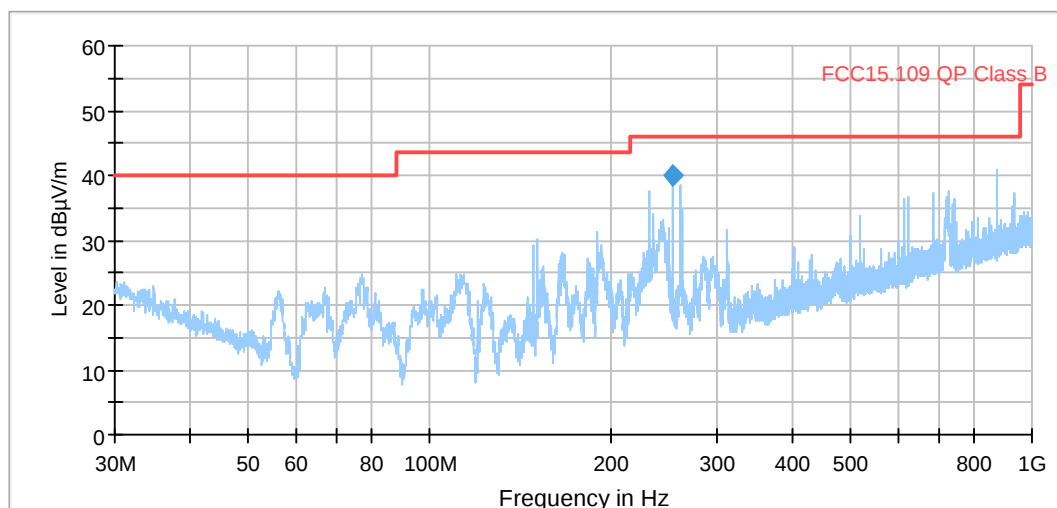
#### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Radiated field strength emission in 3m distance |
| Test Site:                | CETECOM GmbH Essen                              |
| Test Standard:            | FCC 15.109 Unintentional Radiator               |
| Antenna polarisation:     | horizontal/vertical                             |
| Operating Mode:           | Op. mode 1                                      |
| Environmental Conditions: | Humidity : 22%rH; Temperature: 50°C             |
| Operator:                 | HLA                                             |
| Verdict:                  | Passed                                          |

#### EUT Information

|                |                   |
|----------------|-------------------|
| PMT number:    | 18-1-00972S20_C03 |
| Manufacturer:  | ACTIA Nordic AB   |
| Product:       | Telematics Device |
| Model:         | 103360002         |
| -----          |                   |
| HW version:    | H1                |
| SW version:    | 1                 |
| Serial number: | AN103350102B160   |
| Power Supply:  | 13.8VDC           |

Full Spectrum



#### Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin | Meas. Time (ms) | Bandwidth (Hz) | Height | Pol | Azimuth | Corr. (dB/m) |
|-----------------|--------------------|----------------|--------|-----------------|----------------|--------|-----|---------|--------------|
| 253.049000      | 39.91              | 46.00          | 6.09   | 1000.0          | 120.000        | 163.0  | H   | 151.0   | 13.2         |

## 3.01\_Standing

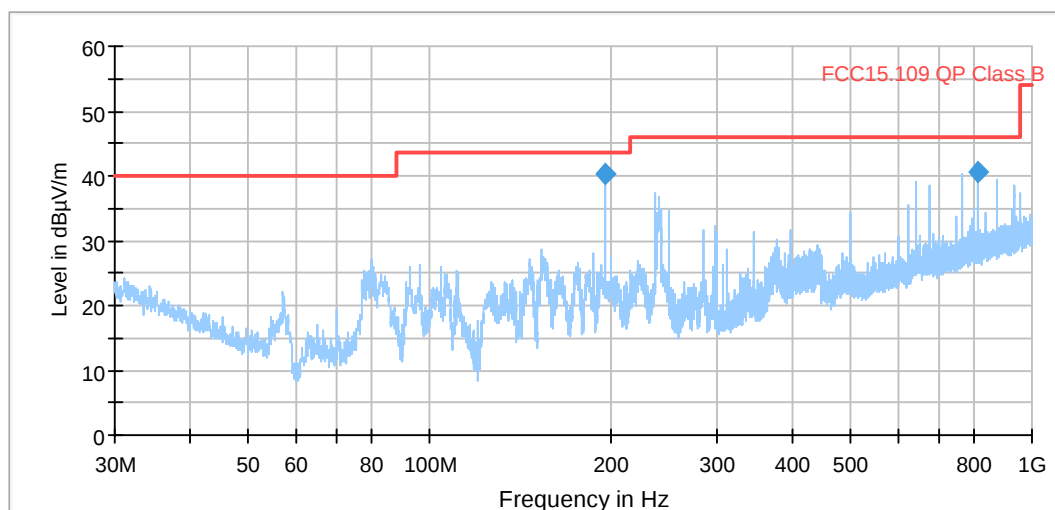
### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Radiated field strength emission in 3m distance |
| Test Site:                | CETECOM GmbH Essen                              |
| Test Standard:            | FCC 15.109 Unintentional Radiator               |
| Antenna polarisation:     | horizontal/vertical                             |
| Operating Mode:           | Op. mode 1                                      |
| Environmental Conditions: | Humidity : 22%rH; Temperature: 50°C             |
| Operator:                 | HLA                                             |
| Verdict:                  | Passed                                          |

### EUT Information

|                |                   |
|----------------|-------------------|
| PMT number:    | 18-1-00972S20_C03 |
| Manufacturer:  | ACTIA Nordic AB   |
| Product:       | Telematics Device |
| Model:         | 103360002         |
| -----          |                   |
| HW version:    | H1                |
| SW version:    | 1                 |
| Serial number: | AN103350102B160   |
| Power Supply:  | 13.8VDC           |

Full Spectrum



### Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin | Meas. Time (ms) | Bandwidth (Hz) | Height (dB) | Pol | Azimuth (°) | Corr. (dB/m) |
|-----------------|--------------------|----------------|--------|-----------------|----------------|-------------|-----|-------------|--------------|
| 195.665000      | 40.36              | 43.50          | 3.14   | 1000.0          | 120.000        | 109.0       | V   | 203.0       | 11.5         |
| 812.495000      | 40.50              | 46.00          | 5.50   | 1000.0          | 120.000        | 136.0       | V   | 184.0       | 25.2         |

## 4.01\_laying

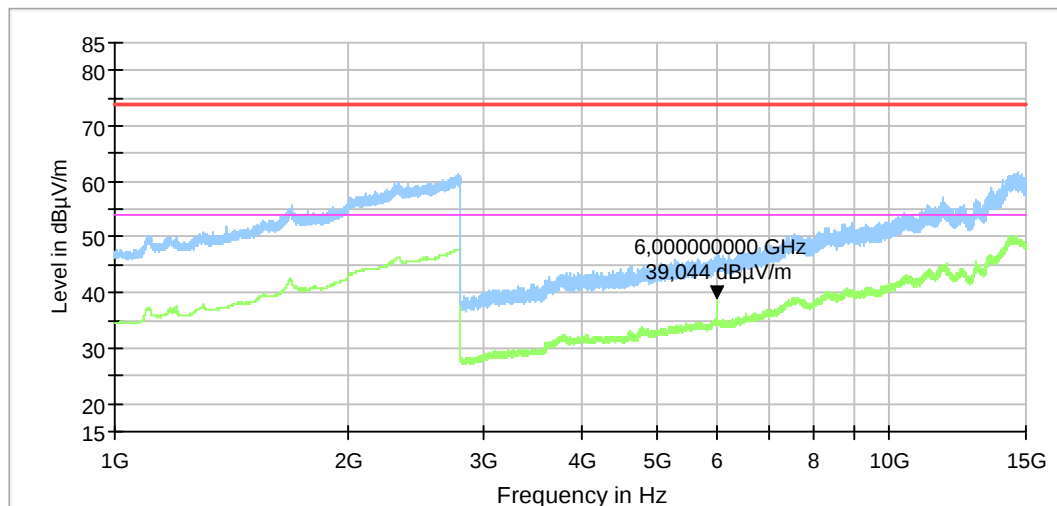
### Common Information

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| Test Description:          | Radiated Filed Strength Emission                |
| Test Site Location:        | CETECOM GmbH Essen                              |
| Test Site:                 | Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20 |
| Test Standard:             | FCC Part 15.109, class B / RSS-Gen., Issue 4    |
| Operating Mode:            | op1                                             |
| Equipment Class:           | Class B                                         |
| Environmental Conditions:: | Humidity : 65%rH; Temperature: 22°C             |
| Operator:                  | HLa                                             |
| EUT Setup:                 | 1                                               |
| Verdict:                   | Passed                                          |
| Comment:                   |                                                 |

### EUT Information

|                |                   |
|----------------|-------------------|
| PMT number:    | 18-1-00972S20_C03 |
| Manufacturer:  | ACTIA Nordic AB   |
| Product:       | Telematics Device |
| Model:         | 103360002         |
| -----          |                   |
| HW version:    | H1                |
| SW version:    | 1                 |
| Serial number: | AN103350102B160   |
| Power Supply:  | 13.8VDC           |

Full Spectrum



## 4.01\_standing

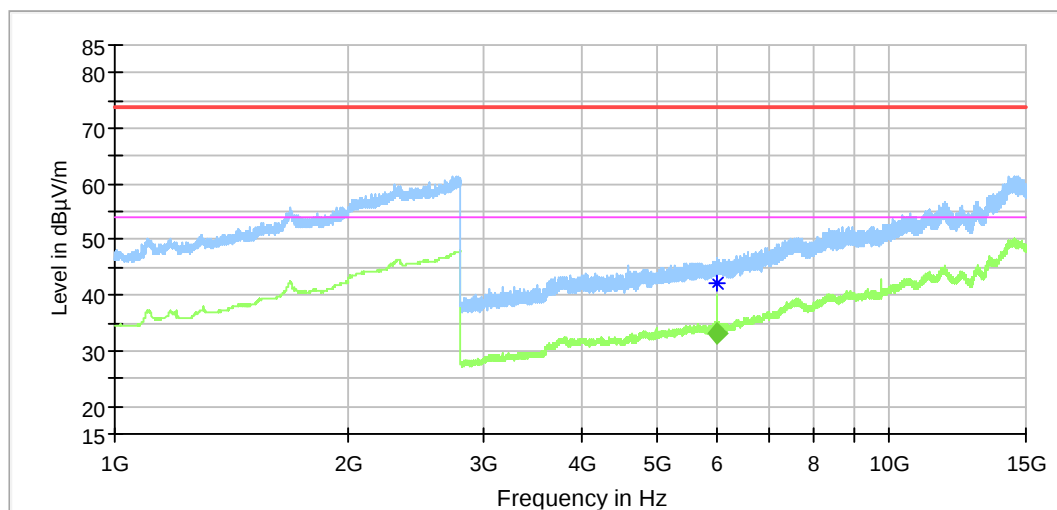
### Common Information

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Test Description:         | Radiated field strength emission in 3m distance |
| Test Site:                | CETECOM GmbH Essen                              |
| Test Standard:            | FCC 15.109 Unintentional Radiator               |
| Antenna polarisation:     | horizontal/vertical                             |
| Operating Mode:           | Op. mode 1                                      |
| Environmental Conditions: | Humidity : 22%rH; Temperature: 50°C             |
| Operator:                 | HLA                                             |
| Verdict:                  | Passed                                          |

### EUT Information

|                |                   |
|----------------|-------------------|
| PMT number:    | 18-1-00972S20_C03 |
| Manufacturer:  | ACTIA Nordic AB   |
| Product:       | Telematics Device |
| Model:         | 103360002         |
| HW version:    | H1                |
| SW version:    | 1                 |
| Serial number: | AN103350102B160   |
| Power Supply:  | 13.8VDC           |

Full Spectrum



### Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-----|---------------|-----------------|--------------|
| 6000.420000     | ---              | 54.00          | 20.82       | 100.0           | 1000.000        | V   | 57.0          | 0.0             | 7            |

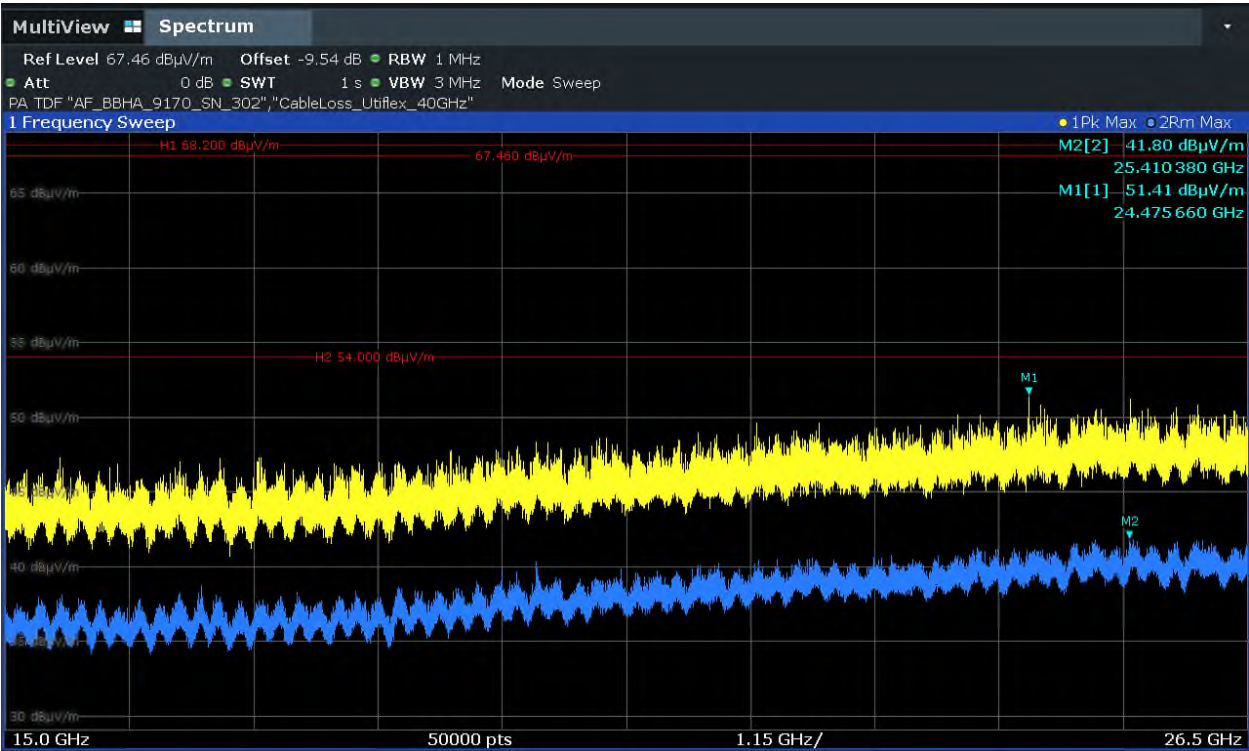
4.02

Common Information

|                            |                                            |
|----------------------------|--------------------------------------------|
| Test Description:          | Electric Fieldstrength Measurement         |
| Test Spec.:                | FCC 109 Class B/ ICES-003, Issue 6 Class B |
| Antenna:                   | receiving antenna is directed to all sides |
| Operating Mode:            | OP. mode 1                                 |
| Environmental Conditions:: | Humidity : 40%rH; Temperature: 20°C        |
| Operator:                  | HLa                                        |

EUT Information

|                |                   |
|----------------|-------------------|
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| Manufacturer:  | ACTIA Nordic AB   |
| Product:       | Telematics Device |
| Model:         | 103360002         |
| -----          |                   |
| HW version:    | H1                |
| SW version:    | 1                 |
| Serial number: | AN103350102B160   |
| Power Supply:  | 13.8VDC           |



End Of Annex 1