

## Test Report 18-1-0097204T01



Number of pages: 15 Date of Report: 2021-Aug-18

Testing company: CETECOM GmbH Applicant: Actia Nordic AB

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Test Object / Telematics Device /
Tested Device(s): 103360002

FCC ID: 2AGKK103360002 ISED ID: 20839-103360002

Testing has been carried out in accordance with:

Title 47 CFR, Chapter I

FCC Regulations, Subchapter A Subpart B: §15.109 (Class B limits)

**ISED Regulations** 

ICES-003, Issue 6 (Class B limits)

Deviations, modifications or clarifications (if any) to above mentioned documents are written

in each section under "Test method and limit".

Test Results: 

The EUT complies with the requirements in respect of all parameters subject to the test.

The test results relate only to devices specified in this document

Signatures:

Dipl.-Ing. Ninovic Perez
Test Lab Manager
Authorization of test report

B.Sc. Hicham Laayouni Test manager Responsible of test report



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#### 1 General information

#### 1.1 Disclaimer and Notes

The test results of this test report relate exclusively to the test item specified in this test report as specified in chapter 2.7. CETECOM does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at CETECOM.

Also we refer on special conditions which the applicant should fulfill according §2.927 to §2.948, special focus regarding modification of the equipment and availability of sample equipment for market surveillance tests.

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## 1.2 Summary of Test Results

Test case	Reference Reference R		Reference	Remark	Result
	in FCC 🛛	in ISED 🗵	in RSS-GEN 🔲		
Radiated field strength emissions 30 MHz – 1	§15.109	ICES-003,	RSS-Gen., Issue 5		
<u>GHz</u>	§15.33	Issue 6	Chapter 8.9,		PASS
	§15.35		Chapter 7.3		
Radiated field strength emissions above 1 GHz	§15.109	ICES-003,	RSS-Gen., Issue 5		
	§15.33	Issue 6	Chapter 8.9,		PASS
	§15.35		Chapter 7.3		

PASSED The EUT complies with the essential requirements in the standard.

FAILED The EUT does not comply with the essential requirements in the standard.

NP The test was not performed by the CETECOM Laboratory.

## 1.3 Summary of Test Methods

Test case	Test method
Radiated field strength emissions 30 MHz – 1 GHz	ANSI C63.4-2014 chapter 8.2.3
Radiated field strength emissions above 1 GHz	ANSI C63.4-2014 chapter 8.3

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#### 2 Administrative Data

## 2.1 Identification of the Testing Laboratory

Company name: CETECOM GmbH
Address: Im Teelbruch 116

45219 Essen - Kettwig

Germany

Responsible for testing laboratory: Mr Ninovic Perez

Accreditation scope: <u>DAkkS Webpage</u>

Test location: CETECOM GmbH; Im Teelbruch 116;45219 Essen - Kettwig

#### 2.2 General limits for environmental conditions

Temperature:	22±2° C
Relative. humidity:	45±15% rH
Barometric Pressure:	1013 hPa

#### 2.3 Test Laboratories sub-contracted

Company name:

#### 2.4 Organizational Items

Order No.: 18-1-0097204

Responsible test manager: B.Sc. Hicham Laayouni

Receipt of EUT: 2021-Aug-02

Date(s) of test: 2021-Aug-04

Version of template: 14.0

### 2.5 Applicant's details

Applicant's name: Actia Nordic AB

Address: Hammarbacken 4A, 3tr

191 49 Sollentuna

Sweden

Contact Person: Salah Alazawi

Contact Person's Email: salah.alazawi@actia.se

#### 2.6 Manufacturer's details

Manufacturer's name:	See applicant's info
Address:	See applicant's info

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## 2.7 EUT: Type, S/N etc. and short descriptions used in this test report

Short descrip tion*)	PMT Sample No.	EUT	Туре	S/N	HW status	firmware status
EUT 1	Sample 20	Telematics Device	103360002	AN103350102B160	H1	1

<sup>\*)</sup> EUT short description is used to simplify the identification of the EUT in this test report.

#### 2.8 Auxiliary Equipment (AE): Type, S/N etc. and short descriptions

Short descrip tion*)	PMT Sample No.	Auxiliary Equipment	Туре	S/N	HW status	SW status
AE1	Sample 55	Cellular Antenna	CALEARO LTE antenna	7680588	16MA800CP	N/A
AE2	Sample 67	WLAN Antenna	CALEARO WiFi antenna	7750162	16MA396CP	N/A
AE4	Sample 78	GNSS Antenna	CALEARO GNSS antenna	7750161	16MA439CP	N/A

<sup>\*)</sup> AE short description is used to simplify the identification of the auxiliary equipment in this test report.

#### 2.9 Connected cables

Short descrip tion*)	PMT Sample No.	Cable	Туре	S/N	HW status	SW status
CAB1	Sample 68	Connection Cabele EUT 1-to cellular antanna	Cable			
CAB2	Sample 75	Connection Cabele EUT 1-to WLAN antanna	Cable			
CAB3	Sample 44	Connection Cabele EUT 1-to GNSSr antanna	Cable			
CAB4	Sample 28	Main wiring	cable			

<sup>\*)</sup> CAB short description is used to simplify the identification of the connected cables in this test report.

#### 2.10 EUT set-ups

set-up no.*)	Combination of EUT and AE	Description
1	EUTA + AE1 + AE2 + AE3 + AE4 + CAB1 + CAB2+ CAB3 + CAB4	Used for Radiated measurements.

<sup>\*)</sup> EUT set-up no. is used to simplify the identification of the EUT set-up in this test report.

#### 2.11 EUT operation modes

EUT operating mode no.*)	Operating modes	Additional information	
op. 1	GSM + CAN +	<ul><li>GSM850 In IDLE mode.</li><li>CAN comunication active during the measuremnts.</li></ul>	
	Ethernet	<ul> <li>Ethernet communication active during the Measuremnts.</li> </ul>	

<sup>\*)</sup> EUT operating mode no. is used to simplify the test report.

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## 3 Equipment under test (EUT)

## 3.1 General Data of Main EUT as Declared by Applicant

Product name	103360002				
Kind of product	Telematics Device				
Firmware	$\square$ for normal use		□ Special version for test execution		
	☐ AC Mains				
	☑ DC Mains	13.8V	OC .		
	☐ Battery	-	-		
Operational conditions	T <sub>nom</sub> =23 °C	T <sub>min</sub> = -40 °C		T <sub>max</sub> = 70 °C	
EUT sample type	Pre-Production				
Weight					
Size		-			
Interfaces/Ports					
For further details refer Applicants Decla	For further details refer Applicants Declaration & following technical documents				
For further details regarding radio param	neters, please refer	to radio	Core Specific	cation	

## 3.2 Modifications on Test sample

Additions/deviations or exclusions	none
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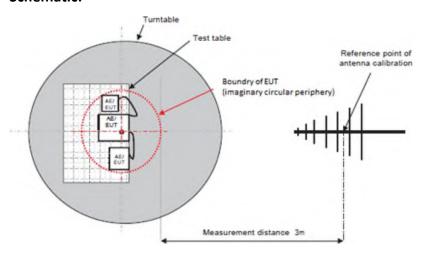
#### 4 Measurements

#### 4.1 Radiated field strength emissions 30 MHz - 1 GHz

#### 4.1.1 Description of the general test setup and methodology, see below example:

Evaluating the field emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a NSA-compliant semi anechoic room (SAR) recognized by the regulatory commissions.

#### Schematic:



#### **Testing method:**

The measurement is made according to relevant reference clauses: (See Tables Summary of Test Results and Summary of Test Methods on page 5)

#### **Exploratory, preliminary measurements**

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 0.8 m height which is placed on the turntable. By rotating the turntable (range 0° to 360°, step 90°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT) the emission spectrum and its characteristics was recorded with an EMI-receiver, broadband antenna and software.

Measurement antenna: horizontal and vertical, heights: 1,0 m and 1,82 m as worst-case determined by an exploratory emission measurements. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case of them. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

#### Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by main-taining the EUT's worst-case operation mode, cable position, etc. either on 10m OATS or 3m semi-anechoic room.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.

Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself either over 3-orthogonal axis (not defined usage position) or 2-orthogonal axis (defined usage position). The measurement antenna height between 1 m and 4 m.

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On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out

#### Formula:

 $E_C = E_R + AF + C_L + D_F - G_A$  (1) AF = Antenna factor

C<sub>L</sub> = Cable loss

 $M = L_T - E_C$  (2)  $D_F = Distance correction factor (if used)$ 

E<sub>C</sub> = Electrical field – corrected value

E<sub>R</sub> = Receiver reading

G<sub>A</sub> = Gain of pre-amplifier (if used)

 $L_T$  = Limit M = Margin

All units are dB-units, positive margin means value is below limit.

#### 4.1.2 Limit

Frequency Range	Class B 🛛 (3 meters)		Class A 🔲 (10 meters)			
[MHz]	Limit [μV/m]	Limit	Limit [μV/m] Limit [dBμV/m]		Detector	RBW / VBW
		[dBµV/m]				[kHz]
30 - 88	100	40.0	90	39.0	Quasi peak	100 / 300
88 - 216	150	43.5	150	43.5	Quasi peak	100 / 300
216 - 960	200	46.0	210	46.4	Quasi peak	100 / 300
960 - 1000	500	54.0	300	49.5	Quasi peak	100 / 300

#### **4.1.3** Result

Diagram	Channel	Mode	Maximum Level [dBμV/m] Frequency Range 30 – 1000 MHz	Result
3.01_Standing		op. 1	39.41dBμV/m @ 253.04MHz	Passed
3.02_Laying		op. 1	40.36dBμV/m @ 195.66MHz	Passed

Remark: for more informations and graphical plot see annex A1 CETECOM\_TR18\_1\_0097204T01a-A1

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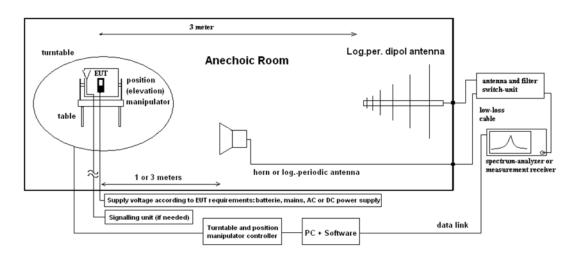


#### 4.2 Radiated field strength emissions above 1 GHz

#### 4.2.1 Description of the general test setup and methodology, see below example:

Evaluating the emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a CISPR 16-1-4:2010 compliant fully anechoic room (FAR) recognized by the regulatory commission. The measurement distance was set to 3 meter for frequencies up to 18 GHz and 2 meter above 18 GHz. A logarithmic periodic antenna is used for the frequency range 30 MHz to 1 GHz. Horn antennas are used for frequency range 1 GHz to 40 GHz. The EUT is aligned within 3 dB beam width of the measurement antenna with three orthogonal axis measurements on the EUT.

#### Schematic:



#### **Testing method:**

The measurement is made according to relevant reference clauses: (See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

#### **Exploratory, preliminary measurements**

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 1.55 m height which is placed on the turntable. By rotating the turntable (range 0° to 360°, step 15°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT) the emission spectrum and its characteristics was recorded with an EMI-receiver, broadband antenna and software.

The measurements are performed in horizontal and vertical polarization of the measurement antennas. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case of them. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

#### Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by main-taining the EUT's worst-case operation mode, cable position, etc.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.

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Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself over 3-orthogonal axis and the height for EUT with large dimensions or three axis scan for portable/small equipment.

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out.

#### Formula:

 $E_C = E_R + A_F + C_L + D_F - G_A \quad \text{(1)} \\ E_C = \text{Electrical field} - \text{corrected value} \\ E_R = \text{Receiver reading} \\ M = L_T - E_C \quad \text{(2)} \\ M = \text{Margin} \\ L_T = \text{Limit} \\ A_F = \text{Antenna factor} \\ C_L = \text{Cable loss} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(3)} \\ \text{(4)} \\ \text{(4)} \\ \text{(5)} \\ \text{(5)} \\ \text{(6)} \\ \text{(6)} \\ \text{(7)} \\ \text{(7)} \\ \text{(8)} \\ \text{(7)} \\ \text{(8)} \\ \text{(8)} \\ \text{(8)} \\ \text{(9)} \\ \text{(1)} \\ \text{(1)} \\ \text{(1)} \\ \text{(1)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(4)} \\ \text{(4)} \\ \text{(5)} \\ \text{(5)} \\ \text{(6)} \\ \text{(6)} \\ \text{(7)} \\ \text{(7)} \\ \text{(8)} \\ \text{(8)} \\ \text{(8)} \\ \text{(8)} \\ \text{(9)} \\ \text{(8)} \\ \text{(1)} \\ \text{(8)} \\ \text{(8)} \\ \text{(1)} \\ \text{(8)} \\ \text{(1)} \\ \text{(8)} \\ \text{(1)} \\ \text{(1)} \\ \text{(1)} \\ \text{(1)} \\ \text{(2)} \\ \text{(2)} \\ \text{(3)} \\ \text{(4)} \\ \text{(4)} \\ \text{(5)} \\ \text{(5)} \\ \text{(6)} \\ \text{(6)} \\ \text{(6)} \\ \text{(7)} \\ \text{(7)} \\ \text{(8)} \\ \text{(8)}$ 

D<sub>F</sub> = Distance correction factor (if used) G<sub>A</sub> = Gain of pre-amplifier (if used)

All units are dB-units, positive margin means value is below limit.

#### 4.2.2 Limit

Radiated emissions limits (3 meters)							
Frequency Range Limit [μV/m] Limit [dBμV/m] Detector RBW / VBW [kHz [MHz]							
Above 1000	500	54	Average	1000			
Above 1000	5000	74	Peak	1000			

#### **4.2.3** Result

Diagram	Mode	Maximum Level [dBμV/m]	Result
		Frequency Range 1 – 15 GHz	
4.01_Laying	op. 1	61.067dBμV/m @ 14.43GHz	Passed
4.01_ Standing	op. 1	61.37dBμV/m @ 14.50GHz	Passed

Remark: for more informations and graphical plot see annex A1 CETECOM\_TR18\_1\_0097204T01a-A1

Diagram	Mode	Maximum Level [dBμV/m] Frequency Range 15 – 26,5GHz	Result
4.02	op. 1	51.41dBμV/m @ 24.47GHz	Passed

Remark: for more informations and graphical plot see annex A1 CETECOM\_TR18\_1\_0097204T01a-A1

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## 4.3 Results from external laboratory

None	-

## 4.4 Opinions and interpretations

None	-

## 5 Equipment lists

ID	Description	Manufacturer	SerNo	Cal due date
	120901 - SAC - Radiated Emission <1GHz			
20574	Biconilog Hybrid Antenna BTA-L	Frankonia GmbH	980026L	03.05.2022
20620	EMI Test Receiver ESU26	Rohde & Schwarz Messgerätebau GmbH	100362	21.06.2022
20482	filter matrix Filter matrix SAR 1	CETECOM GmbH	-	
20885	Power Supply EA3632A	Agilent Technologies Deutschland GmbH	75305850	
20487	System CTC NSA-Verification SAR-EMI System EMI field (SAR) NSA	ETS-Lindgren Gmbh	-	23.03.2022
	120904 - FAC1 - Radiated Emissions			
20341	Digital Multimeter Fluke 112	Fluke Deutschland GmbH	81650455	25.05.2022
20720	EMC32 [FAC]	Rohde & Schwarz Messgerätebau GmbH	V10.xx	
20489	EMI Test Receiver ESU40	Rohde & Schwarz Messgerätebau GmbH	1000-30	23.06.2022
20254	High Pass Filter 5HC 2600/12750-1.5KK (GSM1800/1900/DECT)	Trilithic	23042	
20868	High Pass Filter AFH-07000	AtlanTecRF	16071300004	
20291	High Pass Filter WHJ 2200-4EE (GSM 850/900)	Wainwright Instruments GmbH	14	
20020	Horn Antenna 3115	EMCO Elektronik GmbH	9012-3629	08.04.2023
20302	Horn Antenna BBHA9170 (Meas 1)	Schwarzbeck Mess-Elektronik OHG	155	15.04.2023
20512	Notch Filter WRCA 800/960-02/40-6EEK (GSM 850)	Wainwright Instruments GmbH	24	
20290	Notch Filter WRCA 901,9/903,1SS (GSM 900)	Wainwright Instruments GmbH	3RR	
20122	Notch Filter WRCB 1747/1748 (GSM 1800)	Wainwright Instruments GmbH	12	
20121	Notch Filter WRCB 1879,5/1880,5EE (GSM 1900)	Wainwright Instruments GmbH	15	
20448	Notch Filter WRCT 1850.0/2170.0-5/40-10SSK (WCDMA-FDD II)	Wainwright Instruments GmbH	5	
20066	Notch Filter WRCT 1900/2200-5/40-10EEK (WCDMA - FDDI)	Wainwright Instruments GmbH	5	
20449	Notch Filter WRCT 824.0/894.0-5/40-8SSK (WCDMA FDD V)	Wainwright Instruments GmbH	1	

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ID	Description	Manufacturer	SerNo	Cal due date
20611	Power Supply E3632A	Agilent Technologies Deutschland GmbH	KR 75305854	
20338	Pre-Amplifier 100MHz - 26GHz JS4-00102600-38-5P	Miteq Inc.	838697	
20484	Pre-Amplifier 2,5GHz - 18GHz AMF-5D-02501800-25- 10P	Miteq Inc.	1244554	
20287	Pre-Amplifier 25MHz - 4GHz AMF-2D-100M4G-35-10P	Miteq Inc.	379418	
20670	Radio Communication Tester CMU200	Rohde & Schwarz Messgerätebau GmbH	106833	16.06.2022
20690	Spectrum Analyzer FSU	Rohde & Schwarz Messgerätebau GmbH	100302/026	23.06.2022
20439	UltraLog-Antenna HL 562	Rohde & Schwarz Messgerätebau GmbH	100248	10.03.2023
20828	Netgear Nighthawk x4S	NETGEAR Ireland International Ltd	5K5188590067B	
20732	Signal- and Spectrum Analyzer FSW67	Rohde & Schwarz Messgerätebau GmbH	104023	27.06.2022

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# 6 Measurement Uncertainty valid for conducted/radiated measurements

The reported uncertainties are calculated based on the standard uncertainty multiplied with the appropriate coverage factor **k**, such that a confidence level of approximately 95% is achieved. For uncertainty determination, each component used in the concrete measurement set-up was taken in account and it contribution to the overall uncertainty according its statistical distribution calculated.

RF-Measurement	Reference	Frequency range	C	Calculated uncertainty based on a confidence level of 95%		a	Remarks		
Conducted emissions		9 kHz - 150 kHz	4.0 dB	4.0 dB					
(U <sub>CISPR</sub> )	-	150 kHz - 30 MHz	3.6 dB						_
Power Output radiated	-	30 MHz - 4 GHz	3.17 d	3.17 dB				Substitution method	
Power Output conducted		Set-up No.	Cel- C1	Cel- C2	BT1	W1	W2		
Power Output conducted	-	9 kHz - 12.75 GHz	N/A	0.60	0.7	0.25	N/A		
		12.75 - 26.5 GHz	N/A	0.82		N/A	N/A		] -
Conducted emissions	-	9 kHz - 2.8 GHz	0.70	N/A	0.70	N/A	0.69		
on RF-port		2.8 GHz - 12.75 GHz	1.48	N/A	1.51	N/A	1.43		N/A - not
		12.75 GHz – 18 GHz	1.81	N/A	1.83	N/A	1.77		applicable
		18 GHz - 26.5 GHz	1.83	N/A	1.85	N/A	1.79		
			0.1272	ppm (E	elta Ma	rker)		•	Frequency
Occupied bandwidth	-	9 kHz - 4 GHz						error	
			1.0 dB				Power		
	-		0.1272	2 ppm (E	elta Ma	rker)			Frequency
Emission bandwidth		9 kHz - 4 GHz							error
	-		See above: 0.70 dB			Power			
Frequency stability	-	9 kHz - 20 GHz	0.0636	0.0636 ppm			-		
		150 kHz - 30 MHz	5.01dE	3					Magnetic
Radiated emissions									field strength
Enclosure	-	30 MHz - 1 GHz	5.83 d	В					Electrical
Liidosuie		1 GHz - 18 GHz	4.91 d	В					Field
		18-26.5 GHz	5.06 d	В					strength

## 7 Versions of test reports (change history)

Version	Applied changes	Date of release
	Initial release	2021-Aug-18
	1	

## **End Of Test Report**

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