



TEST REPORT

Test report no.: 1-4333/12-01-10-C



Testing laboratory

CETECOM ICT Services GmbH

Untertuerkheimer Strasse 6 – 10 66117 Saarbruecken / Germany Phone: + 49 681 5 98 - 0 Fax: + 49 681 5 98 - 9075 Internet: http://www.cetecom.com ict@cetecom.com

Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with

the registration number: D-PL-12076-01-01 Area of Testing: Radio/Satellite Communications

Applicant

VALEO Security Systems - DAS

Europarc - 76 rue Auguste Perret F-94046 CRETEIL / FRANCE Contact: Jerome Hugot

e-mail: jerome.hugot@valeo.com Phone: +33 1 48 84 57 14

Manufacturer

Valeo Interior Electronic

North Junyi Ind. Park, Huaide Vil. Fuyong Town, baoan

Dist

518128 SHENZHEN / CHINA

Test standard/s

47 CFR Part 15 Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency

devices

RSS - 210 Issue 8 Spectrum Management and Telecommunications Radio Standards Specification -

Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item: Automotive control unit Model name: A09SA-A1, A09SA-M1 FCC ID: 2AAS2-A09SAM1 IC: 11313A-A09SAM1

Frequency: 125 kHz
Technology tested: RFID

Antenna: External antenna

Power supply: 12.0V DC by Car Battery

Temperature range: -40°C to +85°C



This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorised:	Test performed:
Christoph Schneider Expert	Tobias Wittenmeier Expert

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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CETECOM ICT Services GmbH 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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This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

2.2 Application details

Date of receipt of order: 2012-03-06
Date of receipt of test item: 2013-08-26
Start of test: 2013-09-10
End of test: 2013-09-13

Person(s) present during the test: -/-

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	01.10.2012	Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices
RSS - 210 Issue 8	01.12.2010	Spectrum Management and Telecommunications Radio Standards Specification - Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

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4 Test environment

 $\begin{array}{ccc} & & T_{nom} & +22 \text{ °C during room temperature tests} \\ \text{Temperature:} & & T_{max} & +85 \text{ °C during high temperature tests} \\ \end{array}$

T_{min} -40 °C during low temperature tests

Relative humidity content: 55 %

Barometric pressure: not relevant for this kind of testing

 V_{nom} 12.0 V DC by Car Battery

Power supply: V_{max} 13.2 V

V_{min} 10.8 V

5 Test item

Kind of test item	:	Automotive control unit
Type identification	:	A09SA-A1, A09SA-M1
S/N serial number	:	Unknown
HW hardware status	:	v.3c
SW software status	:	V7.3
Frequency band [MHz]	:	125 kHz
Type of radio transmission	:	ainala aguiar
Use of frequency spectrum	:	single carrier
Type of modulation	:	оок
Number of channels	:	1
Antenna	:	External antenna
Power supply	:	12.0 V DC by Car Battery
Temperature range	:	-40°C to +85 °C

6 Test laboratories sub-contracted

None

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7	Summary of measurement results	
		No deviations from the technical specifications were ascertained
		There were deviations from the technical specifications ascertained

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210, Issue 8	Passed	2013-12-05	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Pass	Fail	NA	NP	Results
§ 15.35 (c) / RSS-GEN Issue 3 Section 4.5	Timing of the transmitter (Duty cycle correction factor)	Nominal	Nominal					complies
§ 15.223 / RSS-210 Issue 8	Bandwidth of the modulated carrier	Nominal	Nominal	\boxtimes				complies
§ 15.223 / RSS-210 Issue 8	Fieldstrength of fundamental	Nominal	Nominal	\boxtimes				complies
§ 15.209 (a) / RSS-210 Issue 8	Fieldstrength of harmonics and spurious	Nominal	Nominal	\boxtimes				complies
§ 15.109 / RSS-210 Issue 8	Receiver spurious emissions	Nominal	Nominal			\boxtimes		complies
§ 15.107 / § 15.207	Conducted limits	Nominal	Nominal			\boxtimes		-

Note: NA = Not Applicable; NP = Not Performed

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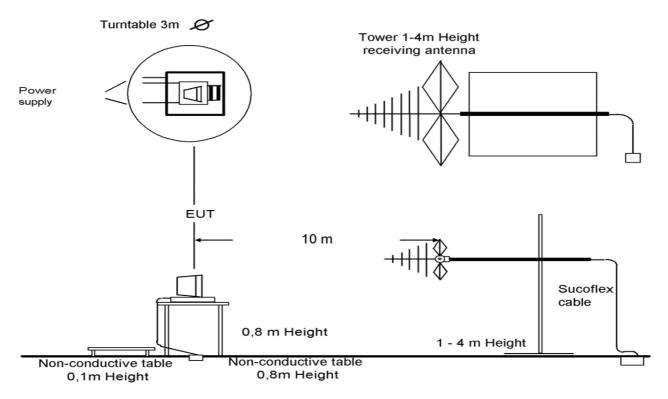
8 RF measurement testing

8.1 Description of test setup

8.1.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 25 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are confirmed with specifications ANSI C63.2-1996 and ANSI C63.4-2009. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63-4-2003. Antennas are confirmed with ANSI C63.2-1996 item 15.

Semi anechoic chamber



Picture 1: Diagram radiated measurements

9 kHz - 30 MHz: active loop antenna

30 MHz – 1 GHz: tri-log antenna

> 1 GHz: horn antenna

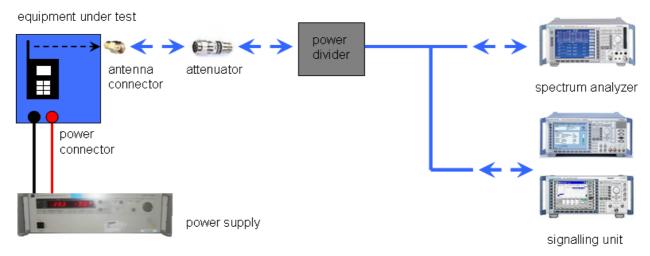
The EUT is powered by an external power supply with nominal voltage. The signalling (if needed) is performed from outside the chamber with a signalling unit by air link using signalling antenna.

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8.1.2 Conducted measurements

The EUT's RF signal is coupled out by the antenna connector which is supplied by the manufacturer. The signal is first 10dB attenuated before it is power divided (~6dB loss per branch The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, and the spectrum analyzer are impedance matched on 50 Ohm.



Picture 2: Diagram conducted measurements

8.2 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: The EUT has several antennas using a time multiplex technology. In normal use

it is not possible that two antennas are transmitting simultaneously in the same time slot. For this RF test we used the antenna which is normally mounted at

the driver door. This antenna produces the highest field strength.

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8.3 RSP100 test report cover sheet / performance test data

Test Report Number	:	1-4333/12-01-10-C
Equipment Model Number	:	A09SA-A1 , A09SA-M1
Certification Number	:	11313A-A09SAM1
Manufacturer (complete Address)	:	Valeo Interior Electronic North Junyi Ind. Park, Huaide Vil. Fuyong Town, baoan Dist 518128 SHENZHEN / CHINA
Tested to radio standards specification no.	:	RSS 210, Issue 8, Annex 8
Open Area Test Site IC No.	:	IC 3462C-1
Frequency Range or fixed frequency	:	125 kHz
Field Strength [dBµV/m] (at 10m) :		60
Occupied bandwidth (99%-BW) [kHz]	:	32.2 kHz
Type of modulation	:	оок
Emission Designator (TRC-43)	:	32K2NON
Antenna Information	:	External coil antenna
Transmitter Spurious (worst case) [dBμV/m	@ 3m]:	75 @ 68 kHz (Quasi-Peak)

ATTESTATION: DECLARATION OF COMPLIANCE:

I attest that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions specified in the Industry Canada standards and all of the requirements of the standard have been met.

Laboratory Manager:

2013-12-05	Tobias Wittenmeier	
Date	Name	Signature

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9 Measurement results

9.1 Timing of the transmitter

Measurement:

Measurement parameter		
Detector:	Peak	
Sweep time:	100ms	
Resolution bandwidth:	10 kHz	
Video bandwidth:	30 kHz	
Trace-Mode:	Single sweep	

Limits:

FCC	IC		
Timing of the transmitter			

(c) Unless otherwise specified, e.g. Section 15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

Duty cycle of the sample with test mode: 49.2%

In normal use the duty cycle is approximately 50% (declared by the manufacturer).

Result: Passed.

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9.2 Bandwidth of the modulated carrier

Limits:

FCC	IC
Bandwidth of the	modulated carrier

Measured with the integrated OBW-function of the spectrum analyser Rohde&Schwarz ESPI (measurement criteria is the integrated power in %)

Result:

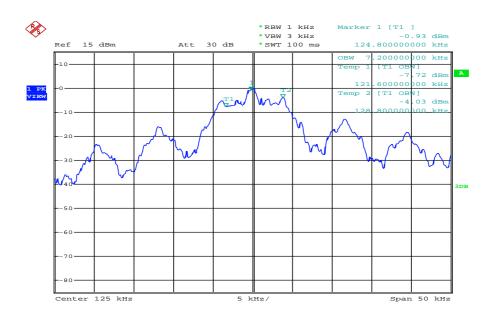
	Occupied Bandwidth (kHz)					
6 dB (75%)	7.2					
20 dB (99%)	32.2					

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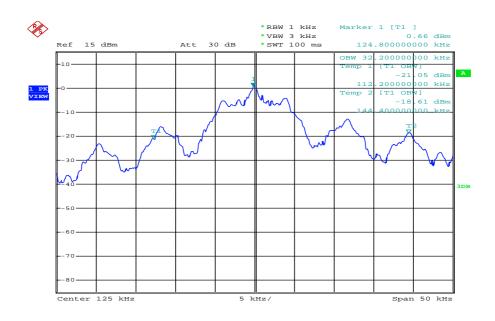
Plots of the measurement

Plot 1: 6dB (75%) - bandwidth



Date: 17.SEP.2013 10:55:31

Plot 2: 20dB (99%) - bandwidth



Date: 17.SEP.2013 10:56:40

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9.3 Field strength of the fundamental

Measurement:

Measurement parameter						
Detector:	Quasi Peak (CISPR)					
Resolution bandwidth:	10kHz					
Trace-Mode:	Max Hold					

Limits:

FCC		IC			
Fundamental Frequency (kHz)	Field strength ο (μ۷/		Measurement distance (m)		
125	2400 / F	· (kHz)	300		

Result:

TEST CO	NDITIONS	MAXIMUM POWER (dBμV/m)			
Frequ	uency	125 kHz	125 kHz		
Мс	ode	at 10 m distance	at 300 m distance		
T _{nom}	V _{nom}	60	0		
Measuremer	nt uncertainty	±30	dB		

Recalculation to a measurement distance of 300m with a correction of 40 dB/decade.

Result: Passed.

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9.4 Fieldstrength of the harmonics and spurious

Measurement:

Measurement parameter						
Detector:	Average / Quasi Peak					
Sweep time:	Auto					
Resolution bandwidth:	100 kHz / 1 MHz					
Video bandwidth:	≥RBW					
Span:	See Plots					
Trace-Mode:	Max Hold					

Limits:

FCC		IC							
F	Field strength of the harmonics and spurious.								
Frequency (MHz)	Frequency (MHz) Field strength		Measurement distance (m)						
0.009 - 0.490	2400/F	(kHz)	300						
0.490 – 1.705	24000/F	(kHz)	30						
1.705 – 30	30 (29.5 c	lBμV/m)	30						
30 – 88	100 (40 d	Bµv/m)	3						
88 – 216	150 (43.5	dBµV/m)	3						
216 – 960	200 (46 d	BμV/m)	3						

Result:

	EMISSION LIMITATIONS								
f [MHz]	Detector	Limit max. allowed [dBµV/m]	Amplitude of emission [dBμV/m]	Results					
No trace	No traceable emissions detected; the emissions above the limit are not caused by the EUT but by the USB- CAN-Bus-Converter (see plots 2 & 3).								

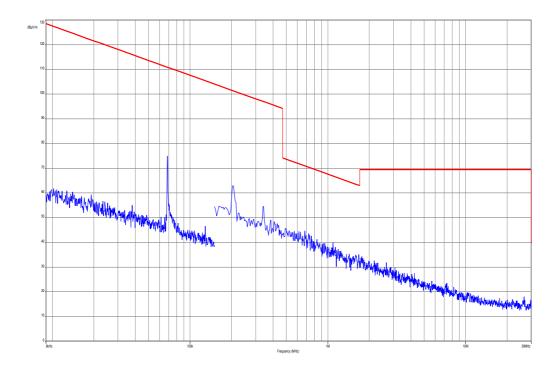
Result: Passed.

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Plots of the measurements

Plot 1: 9 kHz - 30 MHz



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Plot 2: 30 MHz - 1000 MHz, EUT active

Common Information

EUT: PEPS ECU A09SA-M1 & A09SA-A1

Serial Number:

Test Description: FCC part 15 class B @ 10 m

Operating Conditions: active
Operator Name: Kraus

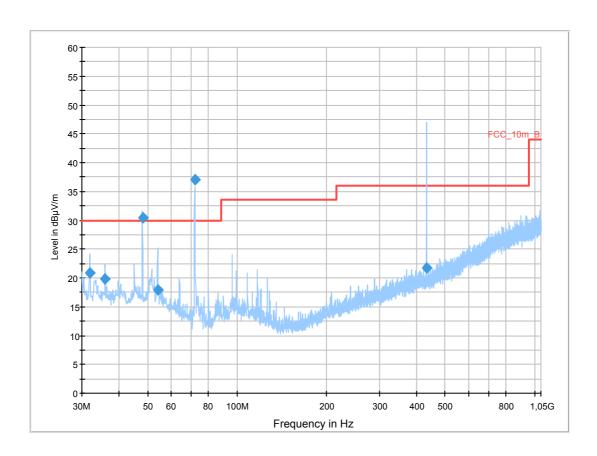
Comment: DC powered (12V)

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)

 $\begin{array}{ll} \text{Receiver:} & \quad \text{[ESCI 3]} \\ \text{Level Unit:} & \quad \text{dB}\mu\text{V/m} \end{array}$

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidt h (kHz)	Height (cm)	Polarizatio n	Azimut h (deg)	Corr. (dB)	Margi n (dB)	Limit (dBµV/m)	Comment
32.008050	20.9	1000.0	120.000	100.0	V	131.0	12.7	9.1	30.0	
35.994600	19.9	1000.0	120.000	200.0	V	41.0	13.1	10.1	30.0	
47.996550	30.4	1000.0	120.000	100.0	V	-18.0	13.3	-0.4	30.0	
53.926050	18.0	1000.0	120.000	200.0	V	230.0	13.0	12.0	30.0	
71.990250	37.1	1000.0	120.000	281.0	V	188.0	9.2	-7.1	30.0	
434.800650	21.7	1000.0	120.000	400.0	Η	3.0	17.4	14.3	36.0	

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Plot 3: 30 MHz – 1000 MHz, EUT deactivated by unplugging the power line; only USB-CAN-Bus-converter active

Common Information

EUT: PEPS ECU A09SA-M1 & A09SA-A1

Serial Number:

Test Description: FCC part 15 class B @ 10 m

Operating Conditions: no DC Operator Name: Kraus

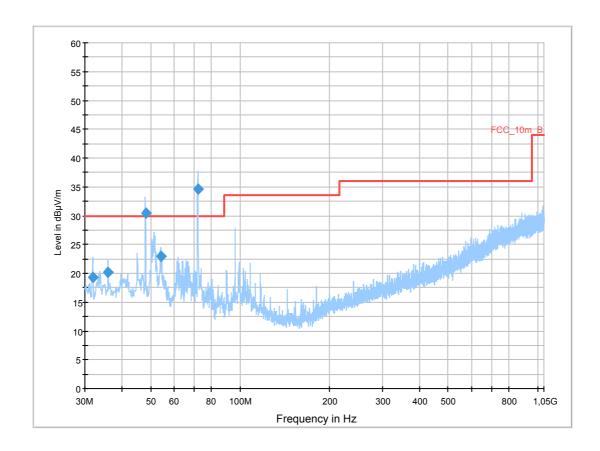
Comment: DC powered (12V)

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)

Receiver: [ESCI 3] Level Unit: $dB\mu V/m$

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidt h (kHz)	Height (cm)	Polarizatio n	Azimut h (deg)	Corr. (dB)	Margi n (dB)	Limit (dBµV/m)	Comment
32.003700	19.2	1000.0	120.000	108.0	V	165.0	12.7	10.8	30.0	
36.003600	20.1	1000.0	120.000	155.0	V	46.0	13.1	9.9	30.0	
48.012000	30.4	1000.0	120.000	100.0	V	242.0	13.3	-0.4	30.0	
53.992050	23.0	1000.0	120.000	246.0	V	185.0	13.0	7.0	30.0	
71.995350	34.5	1000.0	120.000	283.0	V	5.0	9.2	-4.5	30.0	

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9.5 Receiver spurious emissions

Not applicable

9.6 Conducted limits

Not applicable; EUT is powered by car battery

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10 Test equipment and ancillaries used for tests

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, rf-generating and signalling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Labor/Item).

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	n. a.	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2818A03450	300001040	Ve	12.01.2012	12.01.2015
2	n. a.	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3088	300001032	vlKI!	08.05.2013	08.05.2015
3	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev		
4	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	*	300000199	ne		
5	9	Artificial Mains 9 kHz to 30 MHz	ESH3-Z5	R&S	828576/020	300001210	Ve	06.01.2012	06.01.2014
6	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001156	ne		
7	9	Isolating Transformer	MPL IEC625 Bus Regeltrennt ravo	Erfi	91350	300001155	ne		
8	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
9	90	Active Loop Antenna 10 kHz to 30 MHz	6502	Kontron Psychotech	8905-2342	300000256	k	13.06.2013	13.06.2015
10	n. a.	Amplifier	js42- 00502650- 28-5a	Parzich GMBH	928979	300003143	ne		
11	n. a.	Band Reject filter	WRCG185 5/1910- 1835/1925- 40/8SS	Wainwright	7	300003350	ev		
12	n. a.	Band Reject filter	WRCG240 0/2483- 2375/2505- 50/10SS	Wainwright	11	300003351	ev		
13	n. a.	Highpass Filter	WHKX7.0/1 8G-8SS	Wainwright	18	300003789	ne		
14	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbe ck	371	300003854	vlKI!	14.10.2011	14.10.2014
15	n. a.	MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologi es	MY51210197	300004405	k	21.02.2013	21.02.2014
16	45	Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368	g		
17	50	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580	ne		
18	n. a.	software	SPS_PHE 1.4f	Spitzberger & Spieß	B5981; 5D1081;B597 9	300000210	ne		
19	n. a.	EMI Test Receiver	ESCI 3	R&S	100083	300003312	k	09.01.2013	09.01.2014
20	n. a.	Analyzer- Reference- System (Harmonics and	ARS 16/1	SPS	A3509 07/0 0205	300003314	Ve	14.07.2011	14.01.2014

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		Flicker)							
21	n. a.	Amplifier	JS42- 00502650- 28-5A	MITEQ	1084532	300003379	ev		
22	n. a.	Antenna Tower	Model 2175	ETS- LINDGREN	64762	300003745	izw		
23	n. a.	Positioning Controller	Model 2090	ETS- LINDGREN	64672	300003746	izw		
24	n. a.	Turntable Interface-Box	Model 105637	ETS- LINDGREN	44583	300003747	izw		
25	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbe ck	295	300003787	k	12.04.2012	12.04.2014
26	n. a.	Spectrum- Analyzer	FSU26	R&S	200809	300003874	k	16.01.2013	16.01.2014
27	ECT-0002	Temperature and Climatic Test Chamber	VUK04/150 0	Heraeus Voetsch	31098	300001507	g	20.09.2011	
28	n. a.	Spectrum Analyzer 9kHz to 30GHz - 140+30dBm	FSP30	R&S	100886	300003575	k	22.08.2012	22.08.2014

Agenda: Kind of Calibration

k calibration / calibrated EK limited calibration

ne not required (k, ev, izw, zw not required) zw cyclical maintenance (external cyclical maintenance)

ev periodic self verification izw internal cyclical maintenance
Ve long-term stability recognized g blocked for accredited testing
Vlk! Attention: extended calibration interval

NK! Attention: not calibrated *) next calibration ordered / currently in progress

11 Observations

No observations exceeding those reported with the single test cases have been made.

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Photographs of the test setup Photo documentation: Annex A

Photo 1:



Photo 2:



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Photo 3:

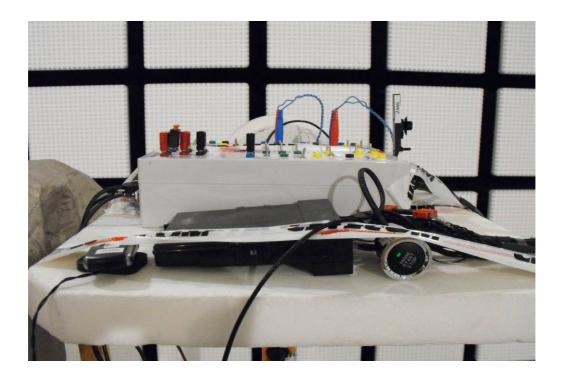
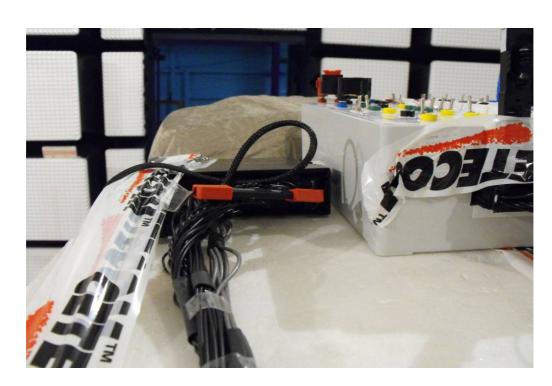


Photo 4:



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Photo 5:



Photo 6:



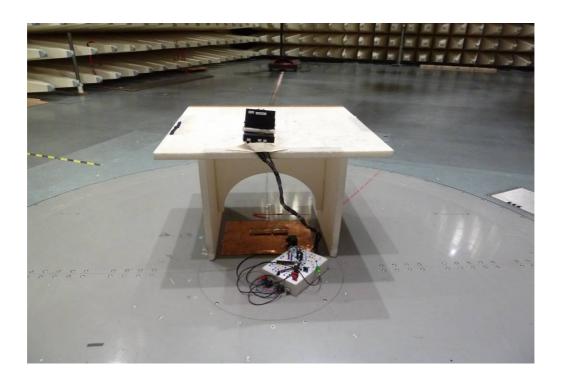
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Photo 7:



Photo 8:



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External photographs of the EUT Photo documentation: Annex B

Photo 1:



Photo 2:



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Photo 3:

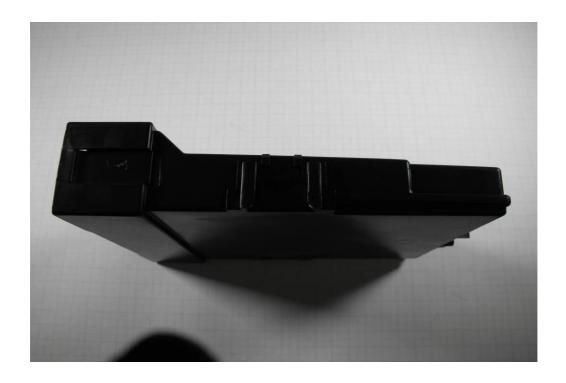


Photo 4:



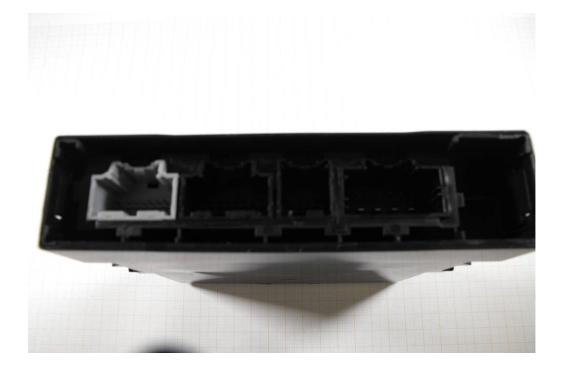
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Photo 5:



Photo 6:



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Photo 7:

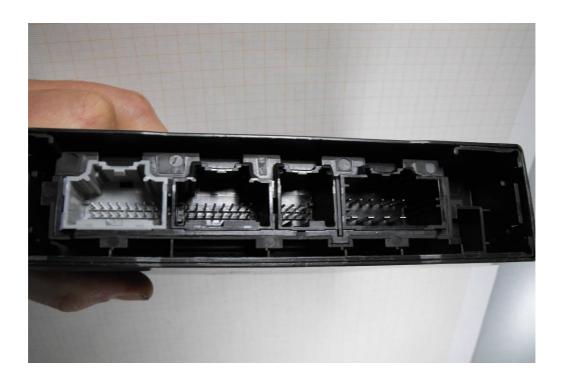
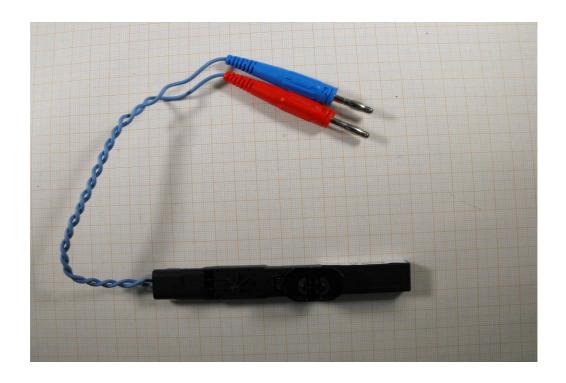


Photo 8:



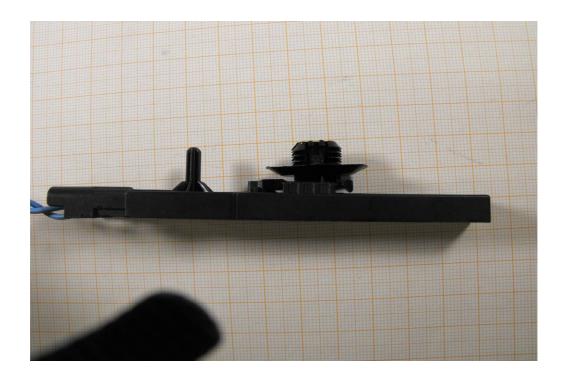
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Photo 9:



Photo 10:



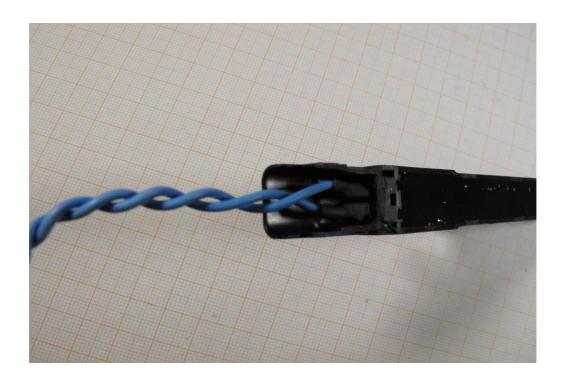
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Photo 11:



Photo 12:



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Annex C Internal photographs of the EUT Photo documentation:

Photo 1:



Photo 2:



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Photo 3:



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Annex D Document history

Version	Applied changes	Date of release	
1.0	Initial release	2013-10-02	
-A	Editorial changings	2013-10-04	
-B	Correction of cover sheet	2013-11-21	
-C	Addition of comment about the antenna configuration	2013-12-05	

Annex E Further information

Glossary

AVG - Average

DUT - Device under test

EMC - Electromagnetic Compatibility

EN - European Standard
EUT - Equipment under test

ETSI - European Telecommunications Standard Institute

FCC - Federal Communication Commission

FCC ID - Company Identifier at FCC

HW - Hardware

IC - Industry Canada
Inv. No. - Inventory number
N/A - Not applicable
PP - Positive peak
QP - Quasi peak
S/N - Serial number
SW - Software

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Annex F Accreditation Certificate



Note:

The current certificate including annex is published on our website (see link below) or may be received from CETECOM ICT Services on request.

http://www.cetecom.com/eu/de/cetecom-group/europa/deutschland-saarbruecken/akkreditierungen.html

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