







CETECOM ICT Services

consulting - testing - certification >>>>

TEST REPORT

Test report no.: 1-4254/12-20-05-A



Testing laboratory

CETECOM ICT Services GmbH

Untertuerkheimer Strasse 6 - 10 66117 Saarbruecken / Germany Phone: + 49 681 5 98 - 0 + 49 681 5 98 - 9075 Fax:

Internet: http://www.cetecom.com e-mail: 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

Sony Mobile Communications AB

Nya Vattentornet 22188 Lund / SWEDEN +46 46 19 30 00 Phone: +46 46 19 32 95 Fax: Contact: Håkan Sjöberg

hakan.sjoberg@sonymobile.com e-mail:

+46 46 19 35 59 Phone:

Manufacturer

Sony Mobile Communications AB

Nya Vattentornet 22188 Lund / SWEDEN

Test standard/s

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

Part 15 - Radio frequency devices

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

Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands):

Category I Equipment

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

Test Item

GSM Mobile Phone GPRS/EGPRS 850/900/1800/1900; UMTS Kind of test item:

FDDI/FDDI/FDDIV/FDDV/FDDVIII; HSPA; BT3.1; WLAN a/b/g/n; AGPS; RFID, FM Rx

Model name:

PM-0010-BV

FCC ID:

PY7PM-0010

IC:

4170B-PM-0010

Frequency:

13.56 MHz

Technology tested:

RFID

Antenna:

Integrated antenna

Power Supply:

3.7 V DC by Li-polymer battery

Temperature Range:

-20°C to +55 °C

Test report authorised:

2012-07-16

Stefan Bös

Senior Testing Manager

Test performed:

Andreas Luckenbill 2012-07-16

2012-07-16 Page 1 of 42



Table of contents

1	Table of contents2				
2	Gener	al information	3		
	2.1	Notes and disclaimer			
	2.2	Application details			
3	Test s	tandard/s	3		
4	Test e	nvironment			
5	Test it	em	2		
6	Test la	aboratories sub-contracted	2		
7	Sumn	nary of measurement results	5		
8	RF me	easurements	6		
	8.1	Description of test setup	6		
	8.	1.1 Radiated measurements	6		
	_	1.2 Conducted measurements			
	8.2	Additional comments			
	8.3	RSP100 test report cover sheet / performance test data	8		
9	Measu	ırement results	9		
	9.1	Timing of the transmitter	9		
	9.2	Field strength of the fundamental	10		
	9.3	Field strength of the harmonics and spurious			
	9.4	Frequency tolerance			
	9.5	AC line conducted	17		
10	T	est equipment and ancillaries used for tests	18		
11	0	bservations			
Anr	ex A	External photographs of the EUT	20		
Anr	ex B	External photographs of the EUT	24		
Anr	ex C	Internal photographs of the EUT	28		
Anr	nex D	Document history	41		
Anr	ex E	Further information	41		
Δnr	ov F	Accreditation Certificate	12		



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.

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM ICT Services GmbH.

The testing service provided by CETECOM ICT Services GmbH has been rendered under the current "General Terms and Conditions for CETECOM ICT Services GmbH".

CETECOM ICT Services GmbH will not be liable for any loss or damage resulting from false, inaccurate, inappropriate or incomplete product information provided by the customer.

Under no circumstances does the CETECOM ICT Services GmbH test report include any endorsement or warranty regarding the functionality, quality or performance of any other product or service provided.

Under no circumstances does the CETECOM ICT Services GmbH test report include or imply any product or service warranties from CETECOM ICT Services GmbH, including, without limitation, any implied warranties of merchantability, fitness for purpose, or non-infringement, all of which are expressly disclaimed by CETECOM ICT Services GmbH.

All rights and remedies regarding vendor's products and services for which CETECOM ICT Services GmbH has prepared this test report shall be provided by the party offering such products or services and not by CETECOM ICT Services GmbH.

In no case this test report can be considered as a Letter of Approval.

2.2 Application details

Date of receipt of order: 2012-03-27
Date of receipt of test item: 2012-05-02
Start of test: 2012-05-02
End of test: 2012-05-16

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

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	2010-10	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	2010-12	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

2012-07-16 Page 3 of 42



4 Test environment

T_{nom} +22 °C during room temperature tests

Temperature: T_{max} +55 °C during high temperature tests

T_{min} -20 °C during low temperature tests

Relative humidity content: 41 %

Barometric pressure: not relevant for this kind of testing

 V_{nom} 3.7 V DC by Li-polymer battery

Power supply: V_{max} 4.1 V

 V_{min} 3.3 V

5 Test item

Kind of test item :		GSM Mobile Phone GPRS/EGPRS 850/900/1800/1900; UMTS FDDI/FDDII/FDDIV/FDDV/FDDVIII; HSPA; BT3.1; WLAN a/b/g/n; AGPS; RFID, FM Rx				
Type identification		PM-0010-BV				
S/N serial number	:	Rad. CB5A1JYXG4, CB5A1JYXD8				
HW hardware status	:	AP1				
SW software status :		7.0.A.0.474				
Frequency band [MHz] :		13.56 MHz				
Type of modulation	:	Modulated carrier				
Number of channels	:	1				
Antenna :		Integrated antenna				
Power supply :		3.7 V DC by Li-polymer battery				
Temperature range	:	-20°C to +55 °C				

6 Test laboratories sub-contracted

None

2012-07-16 Page 4 of 42



7	Summary of measur	rement 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, Annex 2.6	Passed	2012-07-16	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Pass	Fail	NA	NP	Results (max.)
§ 15.35 (c)/ RSS-GEN Issue 2 Section 4.5	Timing of the transmitter (Duty cycle correction factor)	Nominal	Nominal	\boxtimes				complies
§ 15.225 (a)/ RSS-210 Issue 8 Annex 2.6	Fieldstrength of Fundamental	Nominal	Nominal	\boxtimes				complies
§ 15.209/ RSS-210 Issue 8 Annex 2.6	Fieldstrength of harmonics and spurious	Nominal	Nominal					complies
§ 15.225 (e)/		Nominal	Extreme					
RSS-210 Issue 8 Annex 2.6	Frequency tolerance	Extreme	Nominal	\boxtimes				complies

Note: NA = Not Applicable; NP = Not Performed

2012-07-16 Page 5 of 42



8 RF measurements

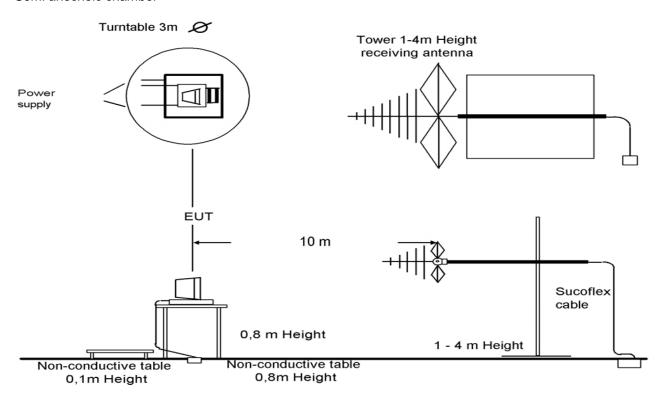
8.1 Description of test setup

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 clause 15 and ANSI C63.4-2009 clause 4.1.5. 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 C63-4-2009 clause 4.2.

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

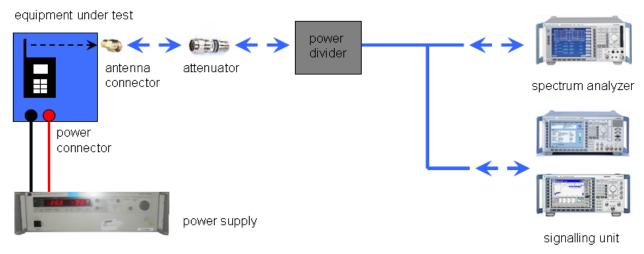
The EUT is powered by an external power supply with nominal voltage. The signalling is performed from outside the chamber with a signalling unit (CMU200 or other) by air link using signalling antenna.

2012-07-16 Page 6 of 42



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). One of the signal paths is connected to the communication base Station (CMU200 or other), the other one is connected to the spectrum analyzer. The specific losses for both signal paths are first checked within a calibration. The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, signalling unit 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: None

2012-07-16 Page 7 of 42



8.3 RSP100 test report cover sheet / performance test data

Test Report Number :	1-4254/12-20-05-A
Equipment Model Number :	PM-0010-BV
Certification Number :	4170B-PM-0010
Manufacturer (complete Address) :	Sony Mobile Communications AB Nya Vattentornet 22188 Lund / SWEDEN
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 :	13.56 MHz
Field Strength [dBμV/m] (at which distance) :	45 dBμV/m @ 10m
Occupied bandwidth (99%-BW) [Hz] :	28 Hz
Type of modulation :	NON
Emission Designator (TRC-43) :	28H0N0N
Antenna Information :	Integrated antenna
Transmitter Spurious (worst case) [dBµV/m @ 3m] :	49 dBμV/m (noise floor)
Receiver Spurious (worst case) [dBµV/m @ 3m] :	no receiver mode

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:

2012-07-16 Andreas Luckenbill Signature

Date Name Signature



Measurement results

9.1 Timing of the transmitter

Measurement:

Measurement parameter			
Detector:	Peak		
Sweep time:	1s/100ms/1ms		
Resolution bandwidth:	10 kHz		
Video bandwidth:	10 kHz		
Span:	Zero-Span		
Trace-Mode:	Clear-Write		

Limits:

FCC	IC				
CFR Part SUBCLAUSE § 15.35 (c)	RSS-GEN Issue 2 Section 4.5				
Timing of the transmitter					

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 100 %

Result: passed

2012-07-16 Page 9 of 42



9.2 Field strength of the fundamental

Measurement:

Measurement parameter				
Detector:	Quasi Peak			
Sweep time:	Auto			
Resolution bandwidth:	200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz			
Video bandwidth:	≥ RBW			
Trace-Mode:	Max Hold			

Limits:

FCC		IC		
CFR Part SUBCLAUSE §	15.225 (b)	RSS-210 Issue 8 Section A1.1.2 / 2.7 Table 4		
Fundamental Frequency (MHz) Field strength of (μV/i			Measurement distance (m)	
	15848 μV/m (84 dBμV/m)		30	
13.553 to 13.567	158489 μV/m (104 dΒμV/m)		10 (Recalculated acc. to FCC part15.31 (f2))	

Result:

TEST CC	ONDITIONS	MAXIMUM POWER (dBμV/m)		
Fred	luency	13.56 MHz	13.56 MHz	
M	ode	at 10 m distance	at 30 m distance	
T _{nom} V _{nom}		45 25*		
Measureme	nt uncertainty	±30	dB	

^{*} Limits recalculated from 10m to 30m with 40 dB/decade according to FCC 15.31 (f2).

Result: passed

2012-07-16 Page 10 of 42



9.3 Field strength of the harmonics and spurious

Measurement:

Measurement parameter				
Detector: Quasi Peak / Average				
Sweep time:	Auto			

Limits:

FCC		IC		
SUBCLAUSE § 15	.209			
Fie	eld strength of the ha	rmonics and spu	irious.	
Frequency (MHz)	Field streng	jth (μV/m)	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	BµV/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 critical peaks detected!					

Result: passed

2012-07-16 Page 11 of 42

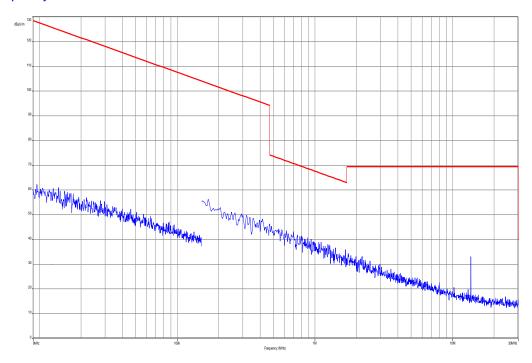


Plots of the measurements

Plot 1: 9 kHz – 30 MHz;

Part 15.209 Magnetics, Measurement distance 3m

Transmit frequency 13.56 MHz



2012-07-16 Page 12 of 42



Plot 2: 30 MHz – 1000 MHz

Transmit frequency 13.56 MHz

Common Information

EUT: PM-0010-BV

Serial Number: CB5A1JYXG4 (TX) + CB5A1JYXD8 (RX)

Test Description: FCC part 15 class B @ 10 m

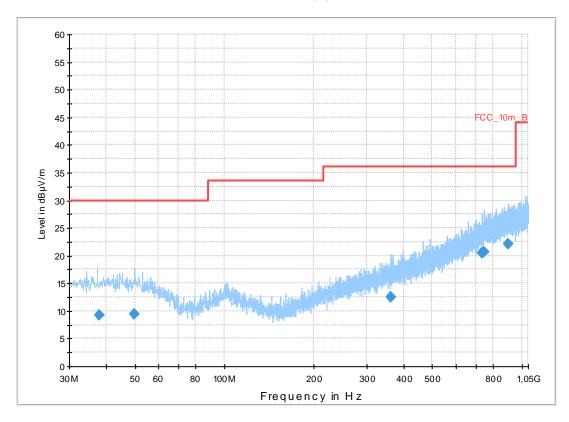
Operating Conditions: RF ID TX
Operator Name: Wolsdorfer
Comment: battery powered

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)

Receiver: [ESCI 3] Level Unit: dBµV/m

 $FCC_10m(B)_3$



2012-07-16 Page 13 of 42



Final Result 1

Frequency	Quasi	Meas.	Bandw	Height	Р	Azimuth	Corr.	Margin	Limit	Comment
(MHz)	Peak	Time	idth	(cm)	ol	(deg)	(dB)	(dB)	(dBµV/	
	(dBµV/	(ms)	(kHz)		ari				m)	
	m)				za					
37.724250	9.2	1000.0	120.00	162.0	Ÿ	280.0	13.3	20.8	30.0	
49.581750	9.5	1000.0	120.00	170.0	Н	260.0	13.4	20.5	30.0	
361.878900	12.5	1000.0	120.00	111.0	٧	-10.0	16.3	23.5	36.0	
733.966950	20.4	1000.0	120.00	170.0	٧	81.0	23.3	15.6	36.0	
748.737300	20.6	1000.0	120.00	134.0	٧	170.0	23.6	15.4	36.0	
900.840300	22.2	1000.0	120.00	170.0	٧	88.0	25.2	13.8	36.0	

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30 MHz - 2 GHz

Receiver: Receiver [ESCI 3]

@ GPIB0 (ADR 20), SN 100083/003, FW 4.42

Signal Path: without Notch

FW 1.0

Antenna: VULB 9163

SN 9163-295, FW ---

Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113

Correction Table (vertical): Cable_EN_1GHz (1005) Correction Table (horizontal): Cable_EN_1GHz (1005)

Antenna Tower: Tower [EMCO 2090 Antenna Tower]

@ GPIB0 (ADR 8), FW REV 3.12

Turntable: Turntable [EMCO Turntable]

@ GPIB0 (ADR 9), FW REV 3.12

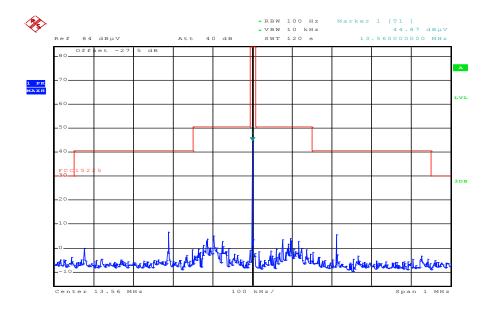
EMC 32 Version 8.52

2012-07-16 Page 14 of 42



Plot 3: Spectrum mask part15.225 (a, b, c, d)

Limits recalculated from 30m to 3m with 40 dB/decade according to FCC 15.31 (f2)



Date: 16.MAY.2012 15:22:04

The transmitter holds the requirements of FCC 15.225 (a, b, c and d)

2012-07-16 Page 15 of 42



9.4 Frequency tolerance

Measurement:

Measurement parameter				
Detector:	Peak			
Sweep time:	5s			
Resolution bandwidth:	10 Hz			
Video bandwidth:	100 Hz			
Span:	500 Hz			
Trace-Mode:	Clear-Write			

Limits:

FCC	IC		
SUBCLAUSE § 15.225	RSS-210 Issue 8 Annex 2.6		

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

Result: passed

	Frequency tolerance									
Over	temperature v	ariation	Ove	er voltage varia	ation					
Lir	mit is +/- 1.356	kHz	Lin	nit is +/- 1.356	kHz		MHz			
T (°C)]	Frequency	result	Power voltage	Frequency	result	F [MHz]	Detector	Level [µV/m]		
-20°	13.560057	Pass	3.3 V	13.560048	Pass					
-10°	13.560120	Pass	3.4 V	13.560048	Pass					
0°	13.560129	Pass	3.5 V	13.560046	Pass					
10°	13.560122	Pass	3.6 V 13.560046		Pass					
20°	13.560048	Pass	3.7 V	13.560048	Pass					
30°	13.560050	Pass	3.8 V	13.560048	Pass					
40°	13.560014	Pass	3.9 V	13.560046	Pass					
50°	13.559974	Pass	4.0 V	13.560046	Pass					
			4.1 V	13.560048	Pass					
Measure	ment uncertair	nty	±100 Hz							

2012-07-16 Page 16 of 42



9.5 AC line conducted

Measurement:

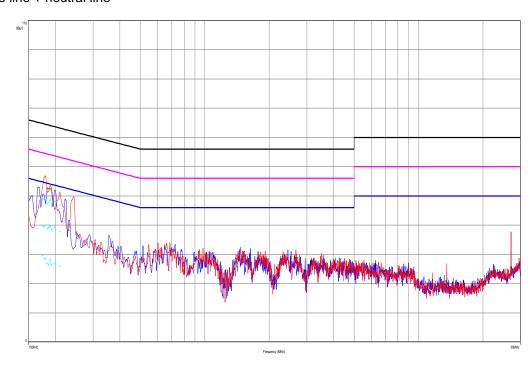
Measurement parameter				
Detector:	Q-Peak			
Sweep time:	Auto			
Resolution bandwidth:	200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz			
Video bandwidth:	≥ RBW			
Trace-Mode:	MAX HOLD			

Limits:

FCC	IC				
SUBCLAUSE § 15.107 / 15.207	RSS-210 Issue 8	Section 6.6, 7.4			
Frequency of Emission (MHz)	Conducted Limit (dBµV)				
	Quasi-peak	Average			
0.15 – 0.5	66 to 56 *	56 to 46 *			
0.5 – 5	56	46			
5 - 30	60	50			

Result: passed

Plot: Phase line + neutral line



2012-07-16 Page 17 of 42



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 0 – 32V	1108-32	Heiden	001802	300001383	Ve	23.06.2010	23.06.2013
2	n. a.	Temperature Test Chamber	T-40/50	CTS GmbH	064023	300003540	vIKI!	20.09.2011	20.09.2013
3	n. a.	Active Loop Antenna	6502	EMCO	2210	300001015	ne		
4	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev		
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.	Relais Matrix	3488A	HP Meßtechnik	2719A15013	300001156	ne		
7	n. a.	Relais Matrix	PSU	R&S	890167/024	300001168	ne		
8	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
9	n. a.	Switch / Control Unit	3488A	HP	2605e08770	300001443	ne		
10	n. a.	Amplifier	js42- 00502650- 28-5a	Parzich GMBH	928979	300003143	ne		
11	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbe ck	371	300003854	vIKI!	14.10.2011	14.10.2014
12	n. a.	MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologi es	MY51210197	300004405	k	19.12.2011	19.12.2012
13	45	Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368	g		
14	50	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580	ne		
15	n. a.	software	SPS_PHE 1.4f	Spitzberger & Spieß	B5981; 5D1081;B597 9	300000210	ne		
16	n. a.	EMI Test Receiver	ESCI 1166.5950. 03	R&S	100083	300003312	k	04.01.2012	04.01.2013
17	n. a.	Analyzer- Reference- System (Harmonics and Flicker)	ARS 16/1	SPS	A3509 07/0 0205	300003314	k	14.07.2011	14.07.2013
18	n. a.	Amplifier	JS42- 00502650- 28-5A	MITEQ	1084532	300003379	ev		
19	n. a.	Antenna Tower	Model 2175	ETS- LINDGREN	64762	300003745	izw		
20	n. a.	Positioning Controller	Model 2090	ETS- LINDGREN	64672	300003746	izw		
21	n. a.	Turntable Interface-Box	Model 105637	ETS- LINDGREN	44583	300003747	izw		
22	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbe ck	295	300003787	k	01.04.2010	
23	n. a.	Spectrum- Analyzer	FSU26	R&S	200809	300003874	k	06.01.2012	06.01.2014
24	n. a.	Test Receiver	ESH2	R&S	871921/095	300002505	Ve	12.01.2012	12.01.2014

2012-07-16 Page 18 of 42



25	n. a.	Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	872096/61	300001824	vlKI!	09.03.2012	09.03.2015
26	n. a.	EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059	k	16.08.2011	16.08.2012

Agenda: Kind of Calibration

k calibration / calibrated EK limited calibration not required (k, ev, izw, zw not required) EK cyclical maintenance (external cyclical maintenance)

 ev
 periodic self verification
 izw
 internal cyclical maintenance

 Ve
 long-term stability recognized
 g
 blocked for accredited testing

 vlkl!
 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.

2012-07-16 Page 19 of 42