

TEST REPORT

Test report no.: 1-2977-23-08/11



Testing laboratory

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Accredited test laboratory:

The test laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025
 DAR registration number: DGA-PL-176/94-D1
 Area of Testing: Radio/Satellite Communications

Applicant

Sony Ericsson Mobile Communications AB

Nya Vattentomet
 22188 Lund / Sweden
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 Phone: +46 70 71 95 73 6

Manufacturer

Sony Ericsson Mobile Communications AB

Nya Vattentomet
 22188 Lund / Sweden

Test standard/s

47 CFR Part 15	Title 47 of the Code of Federal Regulations; Chapter I – Federal Communications Commission subchapter A – general, Part 15 - Radio frequency devices
RSS - 210 Issue 8	Spectrum Management and Telecommunications - Radio Standards Specification 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

Kind of test item:	GSM mobile phone 850 / 900 / 1800 / 1900 / CDMA2000 / BT2.1 + EDR, A-GPS, WLAN, RFID
Model name:	AAH-5880013-BV
FCC ID:	PY7A5880013
IC:	4170B-A5880013
Frequency:	13.56 MHz
Power supply:	3.7 V DC by Li-Ion battery (BA750) / 115 V AC by Charger EP800
Temperature range:	-20 °C to +55 °C

Test performed:

2011-03-25 Meheza Walla

Test report authorised:

2011-03-25 Jakob Reschke

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2 General information

2.1 Notes

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 generalisations 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.

2.2 Application details

Date of receipt of order:	2011-03-14
Date of receipt of test item:	2011-03-14
Start of test:	2011-03-18
End of test:	2011-03-25
Person(s) present during the test:	-/-

3 Test standard/s

Test standard	Version	Test standard description
47 CFR Part 15	2009-10	Title 47 of the Code of Federal Regulations; Chapter I – Federal Communications Commission subchapter A – general, 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

4 Test environment

Temperature:	T_{nom}	+22 °C during room temperature tests
	T_{max}	+55 °C during high temperature test
	T_{min}	-20 °C during low temperature test
Relative humidity content:		55 %
Air pressure:		not relevant for this kind of testing
Power supply:	V_{nom}	115 V AC by Charger EP800
	V_{max}	98 V AC
	V_{min}	135 V AC

5 Test item

Kind of test item	:	GSM mobile phone 850 / 900 / 1800 / 1900 / CDMA2000 / BT2.1 + EDR, A-GPS, WLAN, RFID
Type identification	:	AAH-5880013-BV
S/N serial number	:	Radiated samples: CB5A1CHDED; CB5A1CHDDM
HW hardware status	:	AP1.1
SW software status	:	3.0.C.0.66 ATP R1A034
Frequency band [MHz]	:	13.56 MHz
Type of modulation	:	A1D
Number of channels	:	2
Antenna	:	Integrated antenna
Power supply	:	3.7 V DC by Li-Ion battery (BA750) / 115 V AC by Charger EP800
Temperature range	:	-20°C to +55 °C

6 Test laboratories sub-contracted

None

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, Annex 2.6	Passed	2011-03-28	-/-

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.225 (a)/ RSS-210 Issue 7 Annex 2.6	Fieldstrength of Fundamental	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.209/ RSS-210 Issue 7 Annex 2.6	Fieldstrength of harmonics and spurious	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
§ 15.225 (e)/ RSS-210 Issue 7 Annex 2.6	Frequency tolerance	Nominal	Extreme	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	complies
		Extreme	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Note: NA = Not Applicable; NP = Not Performed

8 RF measurement testing

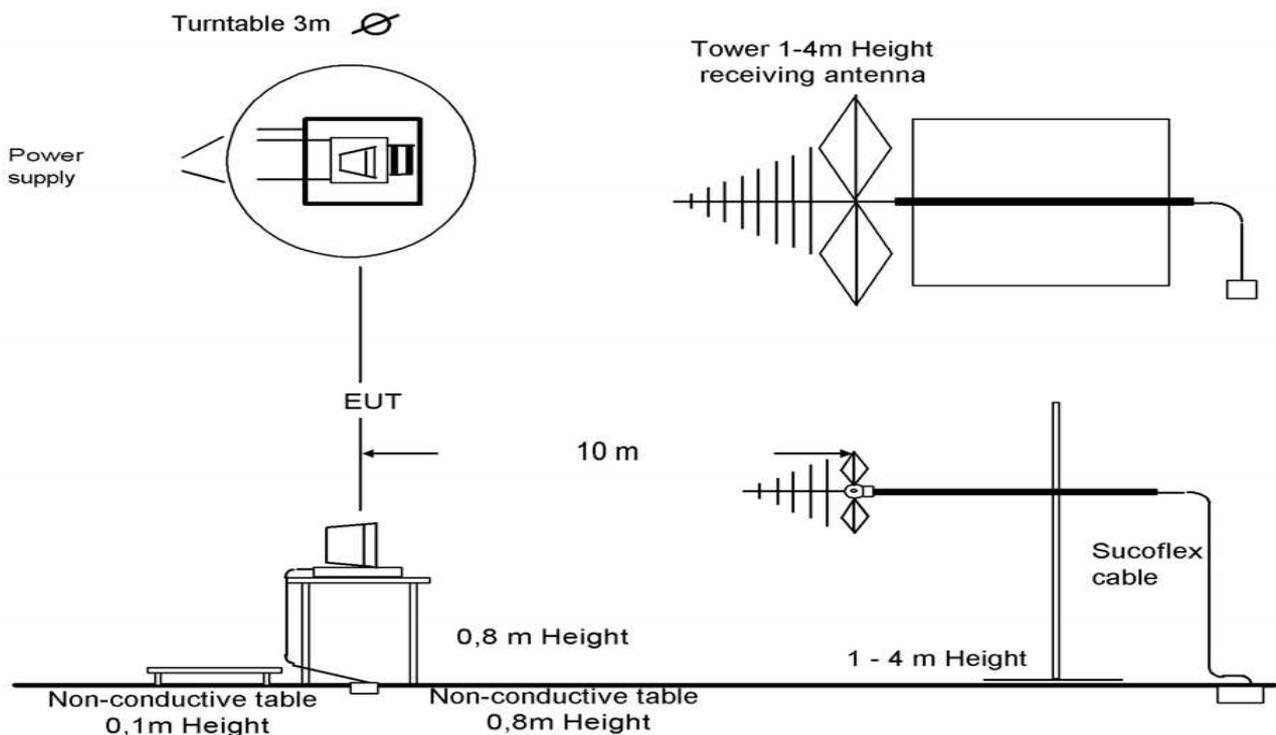
8.1 Description of test setup

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 clause 15 and ANSI C63.4-2003 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 C63-4-2003 clause 4.2.

Antennas are confirmed with ANSI C63.2-1996 item 15.

Semi anechoic chamber



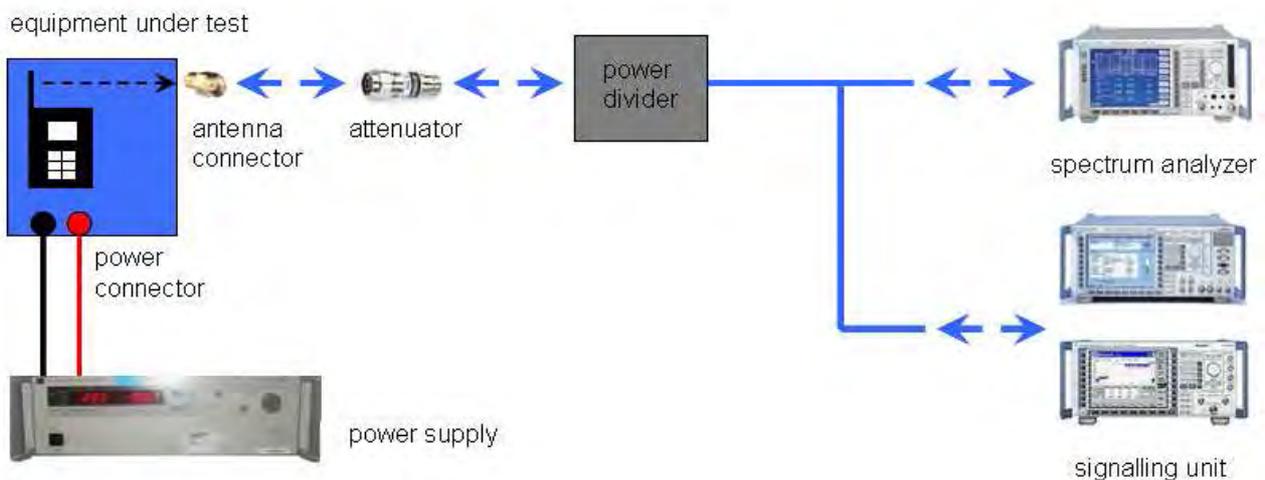
Picture 1: Diagram radiated measurements

9 kHz - 30 MHz:	active loop antenna
30 MHz – 1 GHz:	tri-log antenna
> 1 GHz:	horn antenna

8.1.2 Conducted measurements

Not applicable!

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

8.3 RSP100 test report cover sheet / performance test data

Test Report Number	:	1-2977-23-08/11
Equipment Model Number	:	AAH-5880013-BV
Certification Number	:	4170B-A5880013
Manufacturer (complete Address)	:	Sony Ericsson Mobile Communications AB Nya Vattentorget 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 [dB μ V/m] @ 10 m	:	66.00
Occupied bandwidth (99%-OBW) [kHz]	:	876
Type of modulation	:	ASK
Emission Designator (TRC-43)	:	876KA1D
Antenna Information	:	Integrated antenna
Transmitter Spurious (worst case)	:	25.4 dB μ V/m @ 10 m
Receiver Spurious (worst case)	:	25.5 dB μ V/m @ 10 m

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.

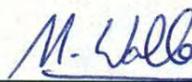
Laboratory Manager:

2011-03-25

Date

Meheza Walla

Name



Signature

9 Measurement results

9.1 Timing of the transmitter

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	10 kHz
Video bandwidth:	30 kHz
Span:	Zero Span (10 ms)
Trace-Mode:	Clear Write with Trigger

Limits:

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

Result: The EUT is transmitting continuously (100% duty cycle).

9.2 Field strength of the fundamental

Measurement:

Measurement parameter	
Detector:	Quai 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
Span:	Zero Span
Trace-Mode:	Max Hold

Limits:

FCC		IC	
CFR Part SUBCLAUSE § 15.231 (b)		RSS-210 Issue 7 Section A1.1.2 / 2.7 Table 4	
Fundamental Frequency (MHz)	Field strength of Fundamental (µV/m)	Measurement distance (m)	
13.553 to 13.567	15848 µV/m (84 dBµV/m)	30	
	158489 µV/m (104 dBµV/m)	10 (Recalculated acc. to FCC part15.31 (f2))	

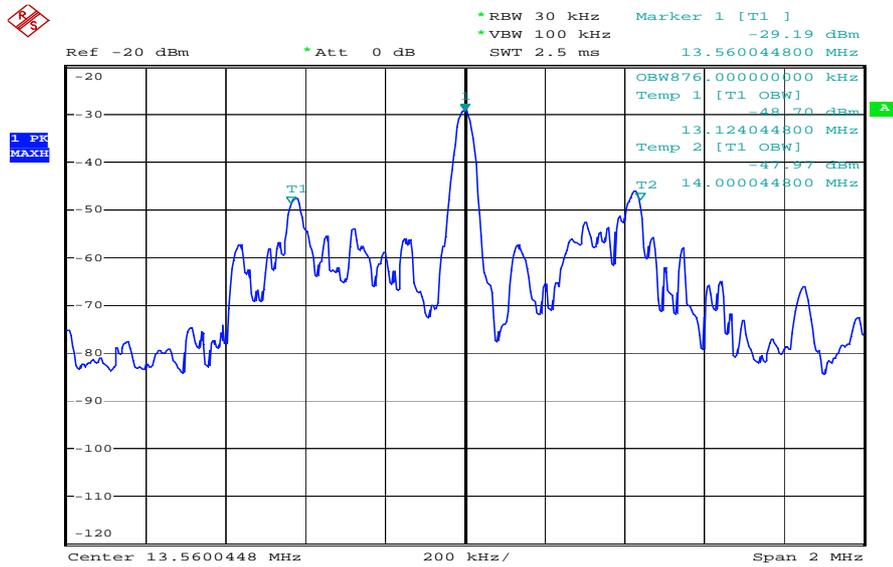
Result:

TEST CONDITIONS		MAXIMUM POWER (dBµV/m)	
Frequency		13.56 MHz	13.56 MHz
Mode		at 10 m distance	at 30 m distance
T _{nom}	V _{nom}	66.00	46.00 *
Measurement uncertainty		±3dB	

* : recalculated according to FCC Part 15.31 with 40dB / decade.

Result: The result of the measurement is passed.

9.3 Occupied Bandwidth (for information)



Date: 25.MAR.2011 11:15:20

Result: OBW = 876 kHz.

9.4 Field strength of the harmonics and spurious

Measurement:

Measurement parameter	
Detector:	Average / Quasi Peak / Peak
Sweep time:	Auto
Resolution bandwidth:	9 kHz – 150 kHz: 9 kHz 150 kHz – 30 MHz: 120 kHz 30 MHz – 1 GHz: 120 kHz
Video bandwidth:	9 kHz – 150 kHz: 9 kHz 150 kHz – 30 MHz: 120 kHz 30 MHz – 1 GHz: 120 kHz
Span:	100 kHz Steps
Trace-Mode:	Max Hold

Limits:

FCC	IC	
SUBCLAUSE § 15.209		
Field strength of the harmonics and spurious.		
Frequency (MHz)	Field strength ($\mu\text{V}/\text{m}$)	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 dB $\mu\text{V}/\text{m}$)	30
30 – 88	100 (40 dB $\mu\text{V}/\text{m}$)	3
88 – 216	150 (43.5 dB $\mu\text{V}/\text{m}$)	3
216 – 960	200 (46 dB $\mu\text{V}/\text{m}$)	3

Result:

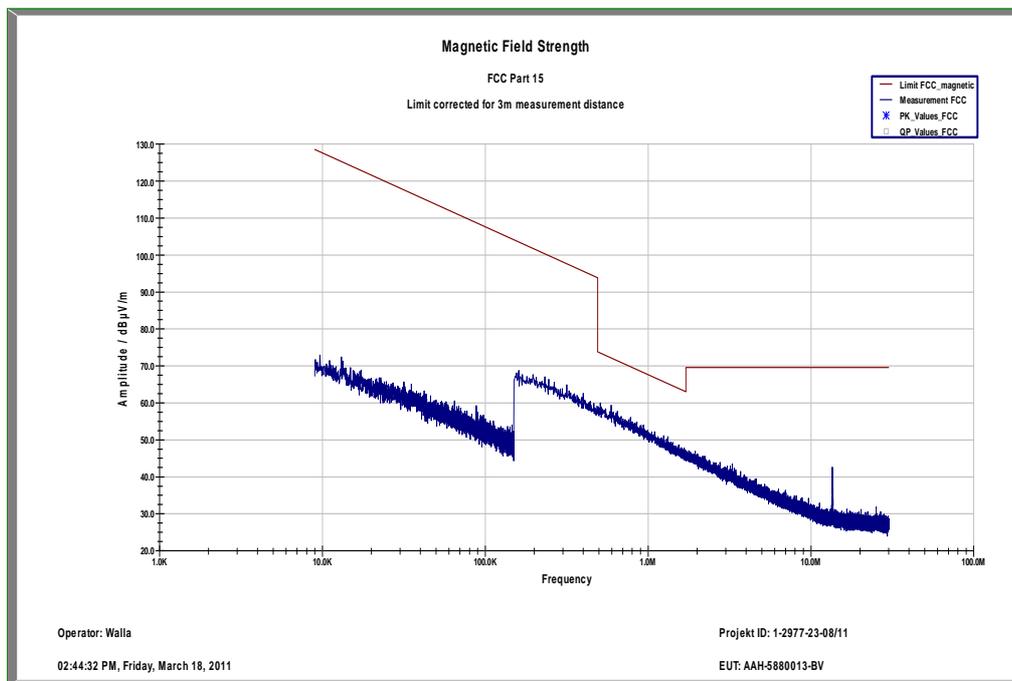
EMISSION LIMITATIONS				
Frequency [MHz]	Detector	Limit max. allowed [dB $\mu\text{V}/\text{m}$]	Amplitude of emission [dB $\mu\text{V}/\text{m}$]	Results
No critical peaks found!				

Result: The result of the measurement is passed.

Plots of the measurements

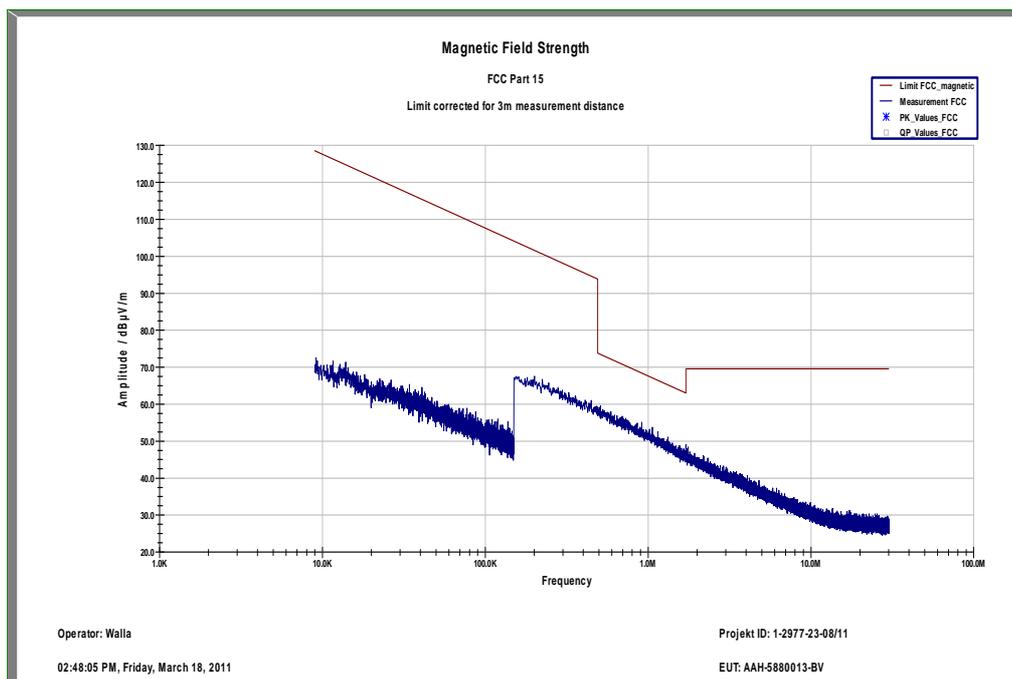
Plot 1: 9 kHz – 30 MHz (Front), Transmit frequency 13.56 MHz

Part 15.209 Magnetics @ 3m



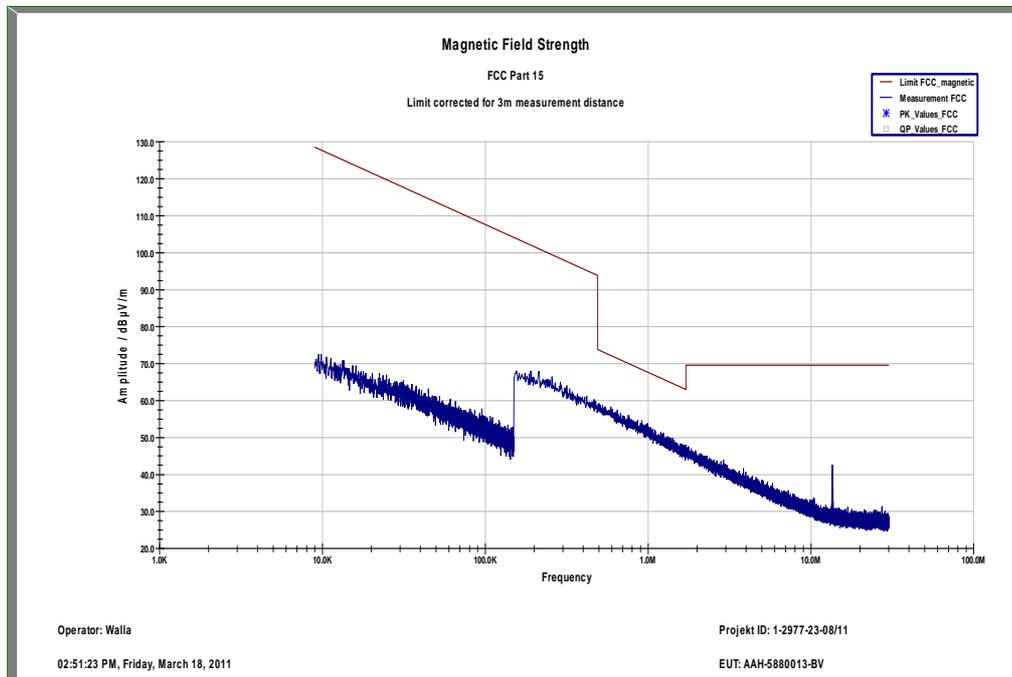
Plot 2: 9 kHz – 30 MHz (Side), Transmit frequency 13.56 MHz

Part 15.209 Magnetics @ 3m



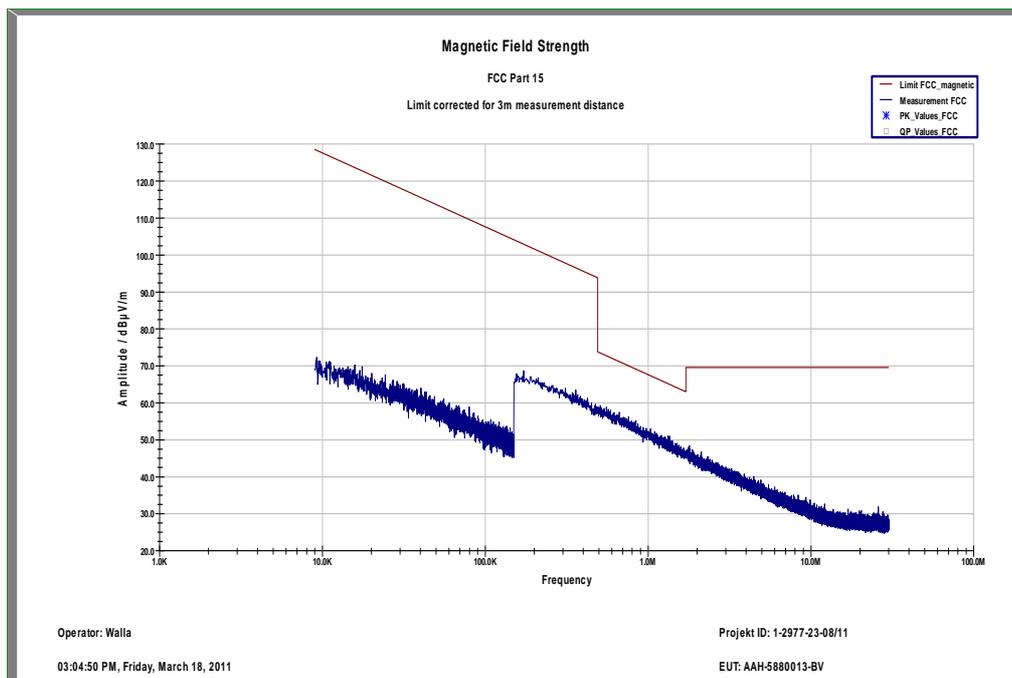
Plot 3: 9 kHz – 30 MHz (Back), Transmit frequency 13.56 MHz

Part 15.209 Magnetics @ 3m



Plot 4: 9 kHz – 30 MHz (Back), Idle-Mode

Part 15.209 Magnetics @ 3m



Plot 5: 30 MHz – 1000 MHz, Transmit frequency 13.56 MHz

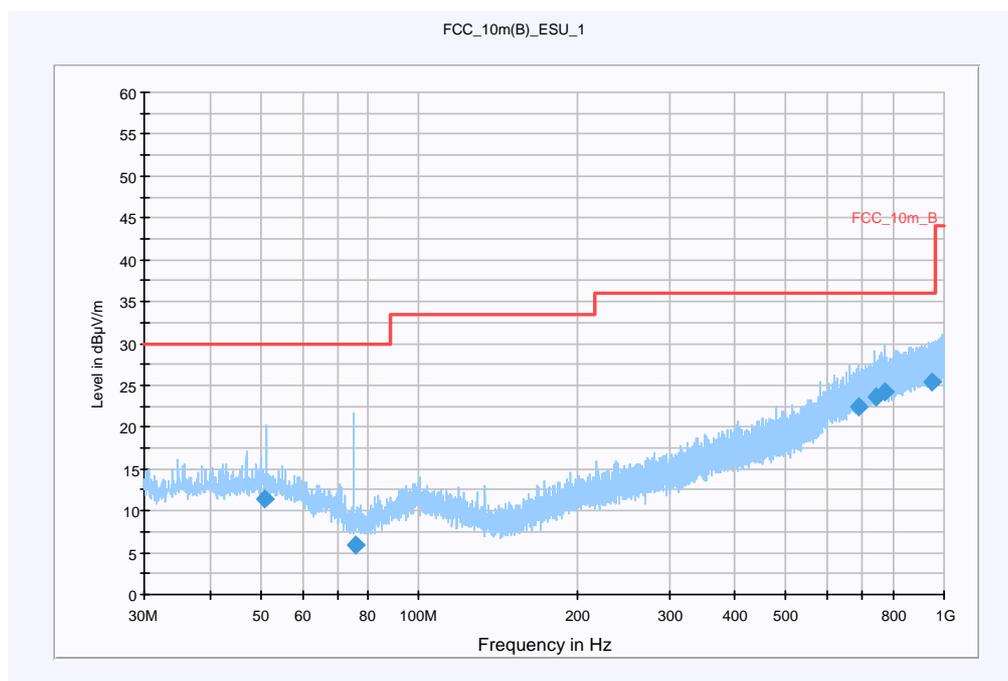
Information

EUT:	AAH-5880013-BV
Serial Number:	CB5A1CHDDM
Test Description:	FCC Part 15 C Class B < 1GHz @ 10m
Operating Conditions:	13.56 MHz RFID TX-Mode
Operator Name:	Langer
Comment:	3.7 V DC by battery (no charger connected)

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Level Unit:	dBµV/m

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 2 GHz	QuasiPeak	120 kHz	15 s	Receiver



Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
50.944340	11.3	15000.000	120.000	98.0	V	272.0	13.3	18.7	30.0
75.542320	5.9	15000.000	120.000	174.0	H	30.0	9.2	24.1	30.0
688.047220	22.4	15000.000	120.000	269.0	V	180.0	22.2	13.6	36.0
739.109820	23.6	15000.000	120.000	300.0	H	78.0	23.4	12.4	36.0
770.135220	24.2	15000.000	120.000	200.0	H	41.0	23.7	11.8	36.0
950.342980	25.4	15000.000	120.000	198.0	V	20.0	25.4	10.6	36.0

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

Subrange 1	
Frequency Range:	30 MHz - 2 GHz
Receiver:	ESU [ESU 26] @ GPIB0 (ADR 20), SN 100037/026, FW 4.43
Signal Path:	without Notch FW 1.0
Antenna:	VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: 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 8.10.00

Plot 6: 30 MHz – 1000 MHz, Idle-Mode

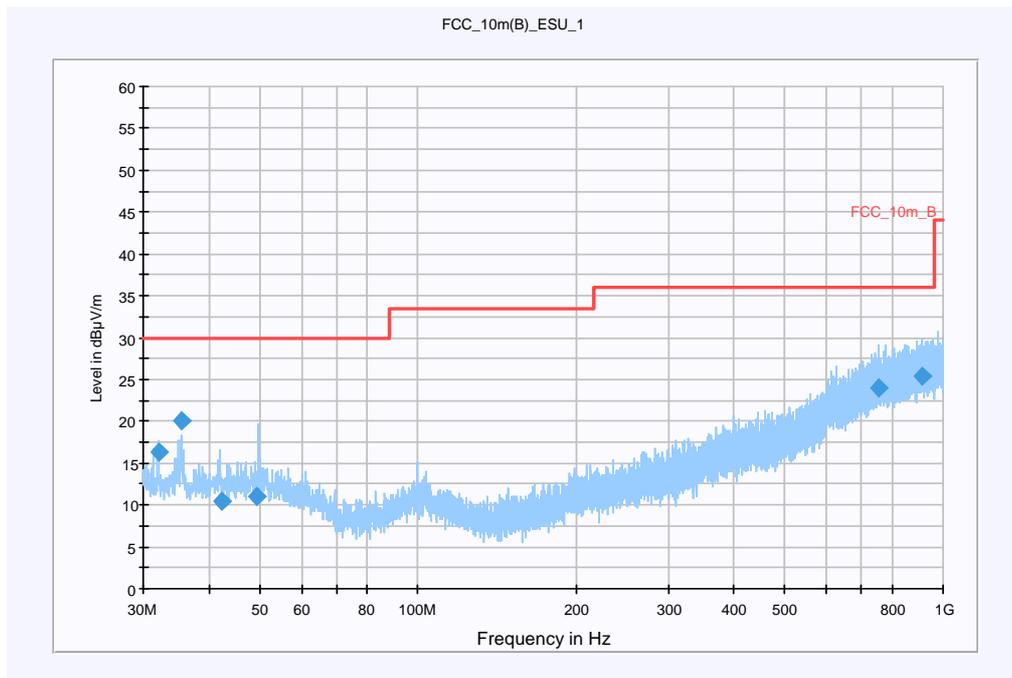
Information

EUT:	AAH-5880013-BV
Serial Number:	CB5A1CHDDM
Test Description:	FCC Part 15 C Class B < 1GHz @ 10m
Operating Conditions:	Idle-Mode
Operator Name:	Langer
Comment:	3.7 V DC by battery (no charger connected)

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Level Unit:	dBµV/m

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 2 GHz	QuasiPeak	120 kHz	15 s	Receiver



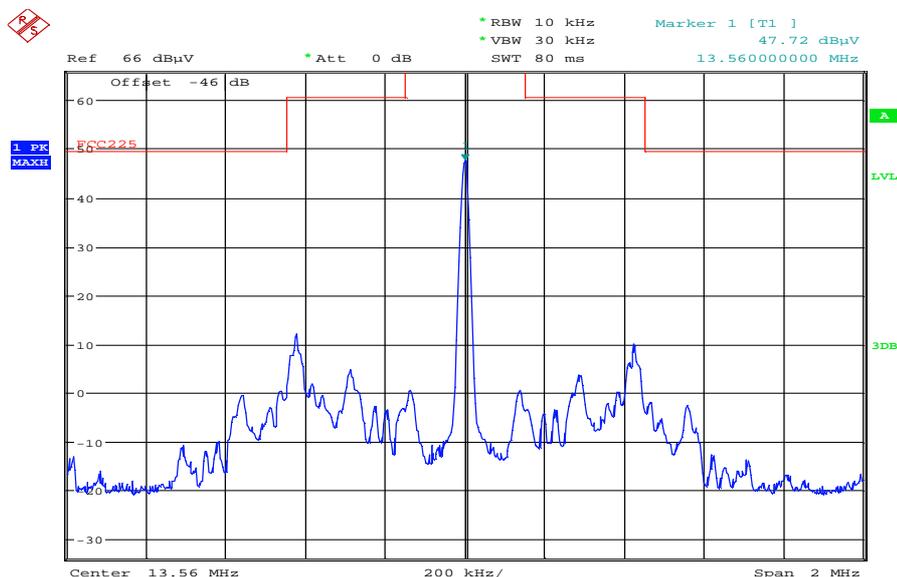
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
32.065920	16.4	15000.000	120.000	220.0	V	196.0	12.7	13.6	30.0
35.457280	20.1	15000.000	120.000	134.0	V	8.0	13.1	9.9	30.0
42.267920	10.4	15000.000	120.000	98.0	V	182.0	13.4	19.6	30.0
49.197760	11.0	15000.000	120.000	135.0	V	195.0	13.4	19.0	30.0
755.162000	23.9	15000.000	120.000	220.0	V	-2.0	23.7	12.1	36.0
911.882260	25.5	15000.000	120.000	131.0	V	106.0	25.2	10.6	36.0

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

Subrange 1	
Frequency Range:	30 MHz - 2 GHz
Receiver:	ESU [ESU 26] @ GPIB0 (ADR 20), SN 100037/026, FW 4.43
Signal Path:	without Notch FW 1.0
Antenna:	VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: 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 8.10.00

Plot 7: Spectrum mask part15.225 (a,b,c,d)



Date: 24.MAR.2011 14:46:18

Limits recalculated from 10m to 30m with 40 dB / decade according to FCC 15.31 (f2)

RBW: 10 kHz
VBW: 30 kHz

Result: The result of the measurement is passed.

9.5 Frequency tolerance

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	100 Hz
Video bandwidth:	1 kHz
Span:	20 kHz
Trace-Mode:	Max Hold

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.	

Frequency tolerance								
Over temperature variation			Over voltage variation					
Limit is +/- 1.356 kHz			Limit is +/- 1.356 kHz			-/-		
T [°C]	Frequency [MHz]	result	Power voltage	Frequency	result	-/-	-/-	-/-
-20	13.560 160	Pass	98 V	13.560 096	Pass			
-10	13.560 176	Pass	100 V	13.560 096	Pass			
+0	13.560 160	Pass	105 V	13.560 096	Pass			
+10	13.560 128	Pass	110 V	13.560 096	Pass			
+20	13.560 096	Pass	115 V	13.560 096	Pass			
+30	13.560 032	Pass	120 V	13.560 096	Pass			
+40	13.560 020	Pass	125 V	13.560 096	Pass			
+50	13.560 016	Pass	130 V	13.560 096	Pass			
+55	13.560 015	Pass	135 V	13.560 096	Pass			
Measurement uncertainty					±100 Hz			

Result: The result of the measurement is passed.

9.6 AC line conducted

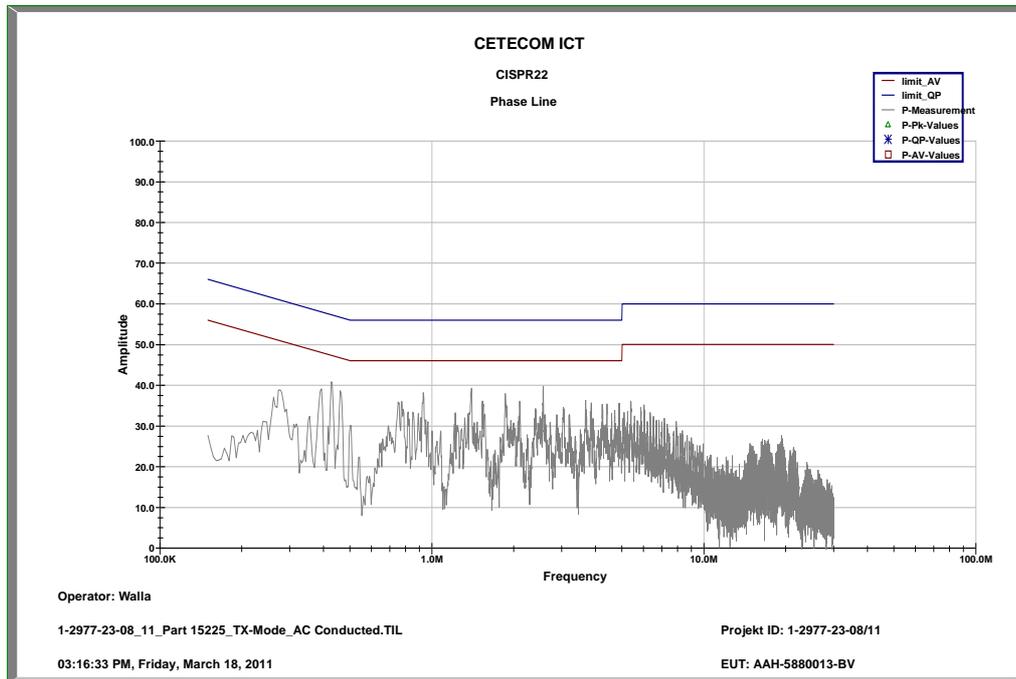
Measurement:

Measurement parameter	
Detector:	Quasi-Peak / Average
Sweep time:	Auto
Resolution bandwidth:	9 kHz
Video bandwidth:	9 kHz
Span:	1 MHz Steps
Trace-Mode:	Max Hold

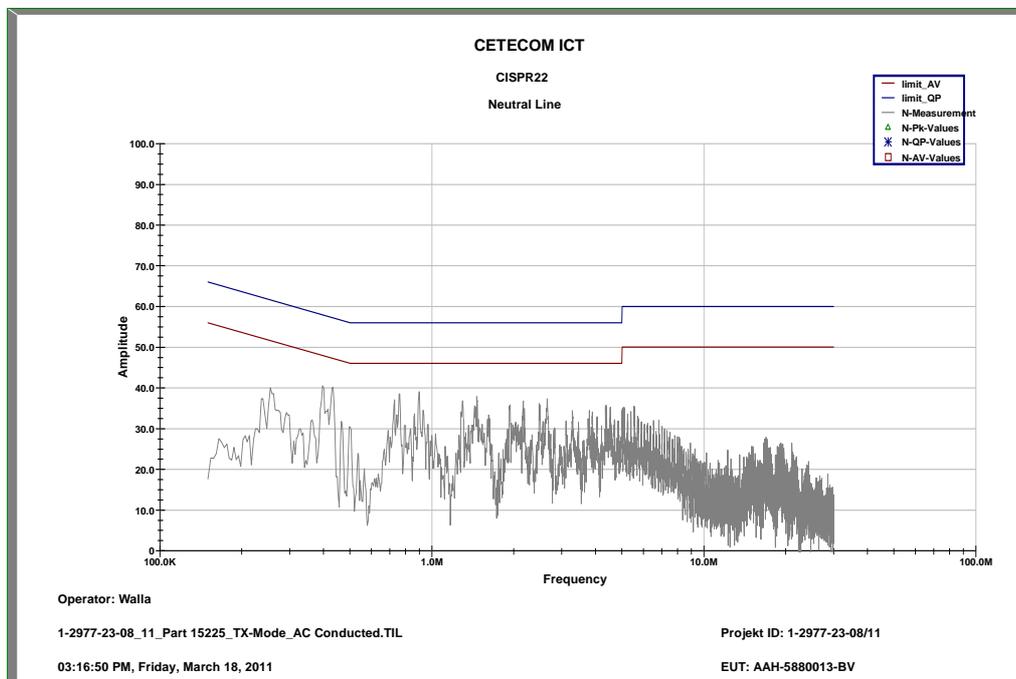
Limits:

FCC	IC	
SUBCLAUSE § 15.107 / 15.207	RSS-210 Issue 7 Section 6.6, 7.4	
Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 - 30	60	50

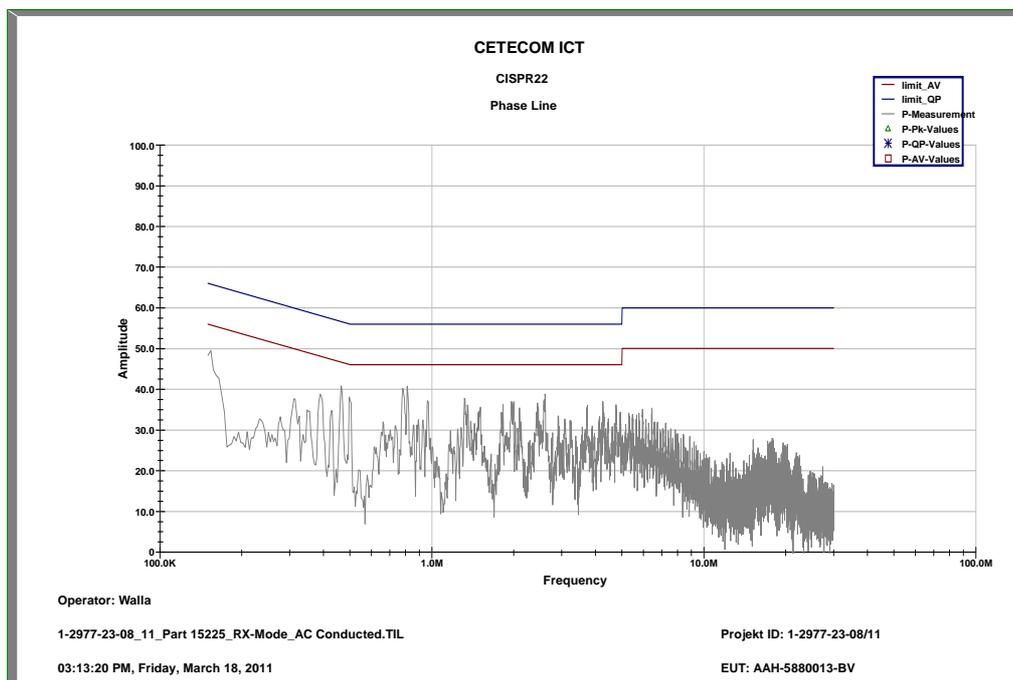
Plot 8: Transmit frequency 13.56 MHz – Phase Line



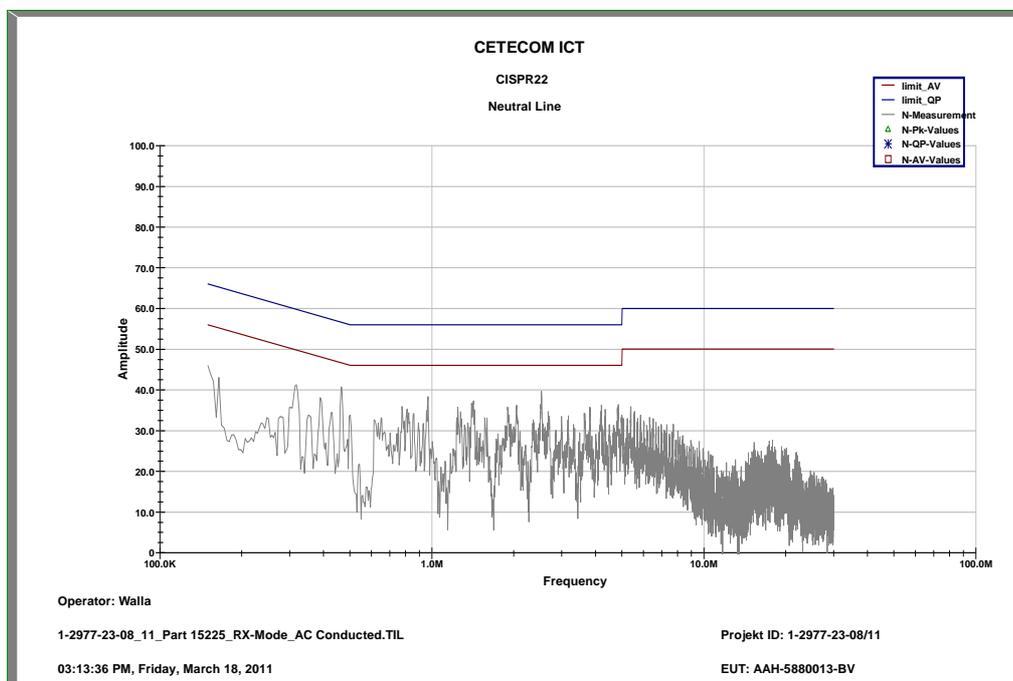
Plot 9: Transmit frequency 13.56 MHz – Neutral Line



Plot 10: Idle-Mode – Phase Line



Plot 11: Idle-Mode – Neutral Line



Result: The result of the measurement is passed.

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.	Labor / Item	Equipment	Type	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	08.01.2009	08.01.2012
2	n. a.	PowerAttenuator	8325	Byrd	1530	300001595			
3	n. a.	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3088	300001032	viKI!	05.03.2009	
4	n. a.	Active Loop Antenna	6502	EMCO	2210	300001015	ne		
5	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996		23.03.2009	
6	Spec.A. 2_2e	System rack for EMI measurement solution	85900	HP I.V.	*	300000222	ne		
7	9	Artificial Mains 9 kHz to 30 MHz	ESH3-Z5	R&S	828576/020	300001210	Ve	06.01.2010	06.01.2012
8	n. a.	Relais Matrix	3488A	HP Meßtechnik	2719A15013	300001156	ne		
9	n. a.	Relais Matrix	PSU	R&S	890167/024	300001168	ne		
10	n. a.	Isolating Transformer	RT5A	Grundig	9242	300001263	ne		
11	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
12	n. a.	Switch / Control Unit	3488A	HP	2605e08770	300001443	ne		
13	n. a.	Band Reject filter	WRCG1855/1910-1835/1925-40/8SS	Wainwright	7	300003350	ev		
14	n. a.	Band Reject filter	WRCG2400/2483-2375/2505-50/10SS	Wainwright	11	300003351	ev		
15	n. a.	TILE-Software Emission	Quantum Change, Modell TILE-ICS/FULL	EMCO	none	300003451	ne		
16	n. a.	Highpass Filter	WHKX2.9/18G-12SS	Wainwright	1	300003492	ev		
17	n. a.	Highpass Filter	WHK1.1/15G-10SS	Wainwright	3	300003255	ev		
18	n. a.	Highpass Filter	WHKX7.0/18G-8SS	Wainwright	18	300003789	ne		
19	n. a.	PSA Spectrum Analyzer 3 Hz - 26.5 GHz	E4440A	Agilent Technologies	MY48250080	300003812	k	08.09.2010	08.09.2012
20	n. a.	MXG Microwave Analog Signal Generator	N5183A	Agilent Technologies	MY47420220	300003813	k	13.09.2010	13.09.2012
21	n. a.	RF Filter Section 9kHz - 1GHz	N9039A	Agilent Technologies	MY48260003	300003825	viKI!	08.09.2010	08.09.2012
22	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	371	300003854	viKI!	17.12.2008	17.12.2010
23	n. a.	EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059	k	07.09.2010	07.09.2011
24	n. a.	Temperature Test Chamber	T-40/50	CTS GmbH	064023	300003540	viKI!	04.06.2009	04.06.2011

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
v!k!	Attention: extended calibration interval			
NK!	Attention: not calibrated		*)	next calibration ordered / currently in progress