InterLab®

Final Report on

VISIO WEB

FCC ID:ZQWGIT000002

Report Reference: MDE_TGYM_1101_FCCb

Date: Februar 19, 2013

Test Laboratory:
7Layers AG
Borsigstr. 11
40880 Ratingen
Germany

DAkkS Deutsche Akkreditierungsstelle D-PL-12140-01-01

1 Administrative Data

1.1 Project Data

Project Responsible:	Patrick Lomax
Date Of Test Report:	2013/02/19
Date of first test:	2011/09/16
Date of last test:	2011/11/08

1.2 Applicant Data

Company Name:	TECHNOGYM SPA
Street:	Via G. Perticari, 20 Gambettola (FC)
Country:	Italy
Contact Person:	Mr. Lotti Pietro

1.3 Test Laboratory Data

The following list shows all places and laboratories involved for test result generation:

7 layers DE

Company Name :	7 layers AG
Street :	Borsigstrasse 11
City :	40880 Ratingen
Country :	Germany
Contact Person :	Mr. Michael Albert
Phone :	+49 2102 749 201
Fax :	+49 2102 749 444
E Mail :	michael.albert@7Layers.de

Laboratory Details

Lab ID	*Identification*	*Responsible*	*Accreditation Info*
Lab 1	Radiated Emissions	Mr. Robert Machulec Mr. Andreas Petz	DAkkS-Registration no. D-PL-12140-01-01

1.4 Signature of the Testing Responsible

Patrick Lomax
responsible for tests performed in: Lab 1

1.5 Signature of the Accreditation Responsible

7 layers AG, Borsigstr. 11
40880 Ratingen, Germany
Phone +49 (0)2102 749 0

M. Kullik [M. Kullik]

Accreditation scope responsible person
responsible for Lab 1

2 Test Object Data

2.1 General OUT Description

The following section lists all OUTs (Object's Under Test) involved during testing.

OUT: VISIO WEB

Type / Model / Family:	VISIO WEB
Product Category:	Module
Manufacturer:	
Company Name:	VIA Networking Technologies, Inc.
Street:	8F,5333 Chung-Cheng Road Hsin-Tien
City:	231 Taipei
Country:	Taiwan, ROC
Contact Person:	Liu Chuanwei

Parameter List:

Parameter name	*Value*
AC Power Supply	120 (V)
Antenna Gain	2
highest channel (BT)	2462 (MHz)
lowest channel (BT)	2412 (MHz)

Ancillary Equipment: AC/DC Switching adptor

Type / Model / Family:	AC/DC Switching adptor, GS18A12 120v/60Hz AC input

Ancillary Equipment: MIFARE TGS READER

Type / Model / Family:	MIFARE TGS READER
Product Category:	Module
Manufacturer:	
Company Name:	Please see applicant data
Contact Person:	-

Parameter List:

Parameter name	*Value*
AC Power Supply	120 (V)
mid channel	13.56 MHz

2.2 Detailed Description of OUT Samples

Sample : A01

OUT Identifier	VISIO WEB		
Sample Description	WMP-G10		
Serial No.	P089355598		
HW Status	1.0		
SW Status	1.0		
Nominal Voltage	3.3 V	*Normal Temp.*	25 °C

Parameter List:

Parameter Description	*Value*
Parameter for Scope FCC_v2	
Frequency_high	2483 (MHz)
Frequency_low	2402 (MHz)

Sample : AA01

OUT Identifier	MIFARE TGS READER		
Sample Description	RFID Tag Reader		
Serial No.	001		
HW Status	0WQ00340		
SW Status	1.29.00		
Nominal Voltage	12 V	*Normal Temp.*	25 °C

Parameter List:

Parameter Description	*Value*
Parameter for Scope FCC_v2	
Frequency_mid	13.56 (MHz)

Sample : PS4

OUT Identifier	AC/DC Switching adptor
Sample Description	Power adaptor

2.3 OUT Features

Features for OUT: MIFARE TGS READER

Designation	*Description*	*Allowed Values*	*Supported Value(s)*
Features for scope: FCC_v2			
AC	The OUT is powered by or connected to AC Mains		
SRD	EUT is a short range device		

Features for OUT: VISIO WEB

Designation	*Description*	*Allowed Values*	*Supported Value(s)*
Features for scope: FCC_v2			
AC	The OUT is powered by or connected to AC Mains		
PantC	permanent fixed antenna connector, which may be built-in, designed as an indispensable part of the equipment		
Wb	EUT supports WLAN in mode b in the band 2400 MHz - 2483.5 MHz		
Wg	EUT supports WLAN in mode g in the band 2400 MHz - 2483.5 MHz		
WLAN	EUT supports WLAN channels 2412 MHz - 2462 MHz.		

2.4 Operating Mode(s)

Ref.-No.	*Description*
02	2.4 GHz WiFi ping is active over wireless network and RFID is active.

2.5 Setups used for Testing

For each setup a relation is given to determine if and which samples and auxiliary equipment is used. The left side list all OUT samples and the right side lists all auxiliary equipment for the given setup.

Setup No.	*List of OUT samples*		*List of auxiliary equipment*	
	Sample No.	*Sample Description*	*AE No.*	*AE Description*
CLS_A01	**(Co-location setup)**			
	Sample: AA01	RFID Tag Reader		
	Sample: PS4	Power adaptor		
	Sample: A01	WMP-G10		

3 Results

3.1 General

Documentation of tested devices:	Available at the test laboratory.
Interpretation of the test results:	The results of the inspection are described on the following pages, where 'Conformity' or 'Passed' means that the certification criteria were verified and that the tested device is conform to the applied standard. In cases where 'Declaration' is printed, the required documents are available in the manufacturers product documentation. In cases where 'not applicable' is printed, the test case requirements are not relevant to the specific equipment implementation.
Note:	1. All tests are performed under environmental conditions within the requirements of the specifications. Environmental conditions are available at the test facility.

3.2 List of the Applicable Body

(Body for Scope: FCC_v2)

Designation	*Description*
FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES	Subpart C - Intentional Radiators; 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

3.3 List of Test Specification

Test Specification:	**FCC part 2 and 15**
Version	10-1-11 Edition
Title:	PART 2 - GENERAL RULES AND REGULATIONS PART 15 - RADIO FREQUENCY DEVICES

Applicable Errata	*Activate Date*	*Comment*
ANSI C63.4-2003	04/1/30	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and electronic Equipment in the Range of 9 kHz to 40 GHz
DA 00-705 considerd	00/3/1	Public Notice: Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

3.4 Summary

Test Case Identifier / Name *Test (condition)*	*Result*	*Date of Test*	*Lab Ref.*	*Setup*
15c.2 Spurious radiated emissions §15.247 (d), §15.35 (b), §15.209				
15c.2; Frequency = 2437, Mode = WLANb transmit	Passed operating mode: 02	2011/09/16	Lab 1	CLS_A01
15c.2; Frequency = 2437, Mode = WLANg transmit	Passed operating mode: 02	2011/11/08	Lab 1	CLS_A01

3.5 Detailed Results

3.5.1 15c.2 Spurious radiated emissions §15.247 (d), §15.35 (b), §15.209

Test: 15c.2; Frequency = 2437, Mode = WLANb transmit

Result: Passed

Setup No.: CLS_A01

Date of Test: 2011/09/16 16:10

Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES

Test Specification: FCC part 2 and 15

Detailed Results:

Script	Traffic Mode FCC 15.247 (15.35b,15.209)											1Mbps
	Frequency range 30 MHz - 1 GHz											
	Diagram No.	TX on	Ant. Polar.	EUT Pos.	Limit QPK [dBµV]		Frequency [MHz]	QPK [dBµV]		Margin QPK [dB]		Result
FCC_15.247c_003-1GHz		2437 MHz	Ver + Hor	Hor								Passed
	Frequency range 1 GHz - 3 GHz											
	Diagram No.	TX on	Ant. Polar.	EUT Pos.	Limit PK [dBµV]	Limit AV [dBµV]	Frequency [MHz]	PK [dBµV]	AV [dBµV]	Margin PK [dB]	Margin AV [dB]	Result
FCC_15.247c_1-3GHz	TGYM_1101_01	2437 MHz	Ver + Hor	Hor	74,00	54,00	1034	44,73	35,70	29,27	18,30	Passed
			Ver + Hor	Hor	74,00	54,00	1065	44,55	35,32	29,45	18,68	Passed
			Ver + Hor	Hor	74,00	54,00	1103	44,54	35,15	29,46	18,85	Passed
			Ver + Hor	Hor	74,00	54,00	1131	45,61	38,28	28,39	15,72	Passed
			Ver + Hor	Hor	74,00	54,00	1172	44,71	34,05	29,29	19,95	Passed
			Ver + Hor	Hor	74,00	54,00	1330	46,91	37,77	27,09	16,23	Passed
			Ver + Hor	Hor	74,00	54,00	1363	44,93	34,39	29,07	19,61	Passed
			Ver + Hor	Hor	74,00	54,00	1378	46,14	38,04	27,86	15,96	Passed
			Ver + Hor	Hor	74,00	54,00	1397	46,59	38,92	27,41	15,08	Passed
			Ver + Hor	Hor	74,00	54,00	1447	47,42	35,94	26,58	18,06	Passed
			Ver + Hor	Hor	74,00	54,00	1463	47,48	39,70	26,52	14,30	Passed
			Ver + Hor	Hor	74,00	54,00	1496	46,82	37,79	27,18	16,21	Passed
			Ver + Hor	Hor	74,00	54,00	1516	45,67	34,52	28,33	19,48	Passed
			Ver + Hor	Hor	74,00	54,00	1530	46,95	39,04	27,05	14,96	Passed
			Ver + Hor	Hor	74,00	54,00	1596	46,64	35,28	27,36	18,72	Passed
			Ver + Hor	Hor	74,00	54,00	1663	46,29	34,90	27,71	19,10	Passed
			Ver + Hor	Hor	74,00	54,00	1722	45,60	35,10	28,40	18,90	Passed
			Ver + Hor	Hor	74,00	54,00	2205	48,79	38,34	25,21	15,66	Passed
	Frequency range 3 GHz - 18 GHz											
	Diagram No.	TX on	Ant. Polar.	EUT Pos.	Limit PK [dBµV]	Limit AV [dBµV]	Frequency [MHz]	PK [dBµV]	AV [dBµV]	Margin PK [dB]	Margin AV [dB]	Result
FCC_15.247c_3-18GHz	TGYM_1101_01	2437 MHz	Ver + Hor	Hor	74,00	54,00	3774	40,33	37,08	33,67	16,92	Passed
			Ver + Hor	Hor	74,00	54,00	4874	43,39	39,59	30,61	14,41	Passed
	Frequency range 18 GHz - 25 GHz											
	Diagram No.	TX on	Ant. Polar.	EUT Pos.	Limit PK [dBµV]	Limit AV [dBµV]	Frequency [MHz]	PK [dBµV]	AV [dBµV]	Margin PK [dB]	Margin AV [dB]	Result
FCC_15.247c_18-25GHz		2437 MHz	Ver + Hor	Hor								Passed

Test: 15c.2; Frequency = 2437, Mode = WLANg transmit

Result: Passed

Setup No.: CLS_A01

Date of Test: 2011/11/08 16:15

Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES

Test Specification: FCC part 2 and 15

Detailed Results:

Script	Traffic Mode FCC 15.247 (15.35b,15.209)											6Mbps
	Frequency range 30 MHz - 1 GHz											
	Diagram No.	TX on	Ant. Polar.	EUT Pos.	Limit QPK [dBµV]		Frequency [MHz]	QPK [dBµV]		Margin QPK [dB]		Result
FCC_15.247c_003-1GHz	TGYM_1101_10	2437 MHz	Ver + Hor	Ver								Passed
	Frequency range 1 GHz - 3 GHz											
	Diagram No.	TX on	Ant. Polar.	EUT Pos.	Limit PK [dBµV]	Limit AV [dBµV]	Frequency [MHz]	PK [dBµV]	AV [dBµV]	Margin PK [dB]	Margin AV [dB]	Result
FCC_15.247c_1-3GHz	TGYM_1101_02	2437 MHz	Ver + Hor	Hor	74,00	54,00	1034	51,13	40,89	22,87	13,11	Passed
			Ver + Hor	Hor	74,00	54,00	1065	45,59	35,59	28,41	18,41	Passed
			Ver + Hor	Hor	74,00	54,00	1103	49,04	39,67	24,96	14,33	Passed
			Ver + Hor	Hor	74,00	54,00	1131	47,69	41,33	26,31	12,67	Passed
			Ver + Hor	Hor	74,00	54,00	1164	44,59	34,87	29,41	19,13	Passed
			Ver + Hor	Hor	74,00	54,00	1172	46,31	34,22	27,69	19,78	Passed
			Ver + Hor	Hor	74,00	54,00	1230	45,51	34,55	28,49	19,45	Passed
			Ver + Hor	Hor	74,00	54,00	1309	47,60	36,48	26,40	17,52	Passed
			Ver + Hor	Hor	74,00	54,00	1330	45,74	35,43	28,26	18,57	Passed
			Ver + Hor	Hor	74,00	54,00	1378	50,64	43,71	23,36	10,29	Passed
			Ver + Hor	Hor	74,00	54,00	1397	47,11	39,33	26,89	14,67	Passed
			Ver + Hor	Hor	74,00	54,00	1447	49,69	40,07	24,31	13,93	Passed
			Ver + Hor	Hor	74,00	54,00	1463	46,41	38,60	27,59	15,40	Passed
			Ver + Hor	Hor	74,00	54,00	1496	46,28	36,46	27,72	17,54	Passed
			Ver + Hor	Hor	74,00	54,00	1516	48,55	37,64	25,45	16,36	Passed
			Ver + Hor	Hor	74,00	54,00	1530	46,68	38,11	27,32	15,89	Passed
			Ver + Hor	Hor	74,00	54,00	1551	47,89	35,02	26,11	18,98	Passed
			Ver + Hor	Hor	74,00	54,00	1585	55,29	45,10	18,71	8,90	Passed
			Ver + Hor	Hor	74,00	54,00	1596	46,07	34,91	27,93	19,09	Passed
			Ver + Hor	Hor	74,00	54,00	1620	46,58	34,77	27,42	19,23	Passed
			Ver + Hor	Hor	74,00	54,00	1663	46,15	35,19	27,85	18,81	Passed
			Ver + Hor	Hor	74,00	54,00	1722	47,87	36,51	26,13	17,49	Passed
			Ver + Hor	Hor	74,00	54,00	2205	50,76	39,86	23,24	14,14	Passed
			Ver + Hor	Hor	74,00	54,00	2274	48,83	38,38	25,17	15,62	Passed
	Frequency range 3 GHz - 18 GHz											
	Diagram No.	TX on	Ant. Polar.	EUT Pos.	Limit PK [dBµV]	Limit AV [dBµV]	Frequency [MHz]	PK [dBµV]	AV [dBµV]	Margin PK [dB]	Margin AV [dB]	Result
FCC_15.247c_3-18GHz	TGYM_1101_02	2437 MHz	Ver + Hor	Ver	74,00	54,00	3774	39,42	35,42	34,58	18,58	Passed
	Frequency range 18 GHz - 25 GHz											
	Diagram No.	TX on	Ant. Polar.	EUT Pos.	Limit PK [dBµV]	Limit AV [dBµV]	Frequency [MHz]	PK [dBµV]	AV [dBµV]	Margin PK [dB]	Margin AV [dB]	Result
FCC_15.247c_18-25GHz	TGYM_1101_03	2437 MHz	Ver + Hor	Ver	74,00	54,00	20286	50,06	40,68	23,94	13,32	Passed
					74,00	54,00	20758	53,78	46,78	20,22	7,22	Passed
					74,00	54,00	21119	56,30	46,80	17,70	7,20	Passed

4 Test Equipment Details

4.1 List of Used Test Equipment

The calibration, hardware and software states are shown for the testing period.

Test Equipment Anechoic Chamber

Lab ID:	**Lab 1**
Manufacturer:	Frankonia
Description:	Anechoic Chamber for radiated testing
Type:	10.58x6.38x6.00 m³

Single Devices for Anechoic Chamber

Single Device Name	*Type*	*Serial Number*	*Manufacturer*	
Air compressor	none	-	Atlas Copco	
Anechoic Chamber	10.58 x 6.38 x 6.00 m³	none	Frankonia	
	Calibration Details		*Last Execution*	*Next Exec.*
	FCC listing 96716 3m Part15/18		2011/01/11	2014/01/10
	IC listing 3699A-1 3m		2011/02/07	2014/02/06
Controller Maturo	MCU	961208	Maturo GmbH	
EMC camera	CE-CAM/1	-	CE-SYS	
EMC camera Nr.2	CCD-400E	0005033	Mitsubishi	
Filter ISDN	B84312-C110-E1		Siemens&Matsushita	
Filter Universal 1A	BB4312-C30-H3	-	Siemens&Matsushita	

Test Equipment Auxiliary Equipment for Radiated emissions

Lab ID:	**Lab 1**
Description:	Equipment for emission measurements
Serial Number:	see single devices

Single Devices for Auxiliary Equipment for Radiated emissions

Single Device Name	*Type*	*Serial Number*	*Manufacturer*	
Antenna mast	AS 620 P	620/37	HD GmbH	
Biconical dipole	VUBA 9117	9117-108	Schwarzbeck	
	Calibration Details		*Last Execution*	*Next Exec.*
	Standard Calibration		2008/10/27	2013/10/26
Broadband Amplifier 18MHz-26GHz	JS4-18002600-32-5P	849785	Miteq	
	Calibration Details		*Last Execution*	*Next Exec.*
	Path Calibration		2011/05/11	2011/11/10
Broadband Amplifier 1GHz-4GHz	AFS4-01000400-1Q-10P-4	-	Miteq	
	Calibration Details		*Last Execution*	*Next Exec.*
	Path Calibration		2011/05/11	2011/11/10
Broadband Amplifier 30MHz-18GHz	JS4-00101800-35-5P	896037	Miteq	
	Calibration Details		*Last Execution*	*Next Exec.*
	Path Calibration		2011/05/11	2011/11/10
Cable "ESI to EMI Antenna"	EcoFlex10	W18.01-2+W38.01-2	Kabel Kusch	
	Calibration Details		*Last Execution*	*Next Exec.*
	Path Calibration		2011/05/11	2011/11/10

Single Devices for Auxiliary Equipment for Radiated emissions (continued)

Single Device Name	*Type*	*Serial Number*	*Manufacturer*
Cable "ESI to Horn Antenna"	UFB311A+UFB293C	W18.02-2+W38.02-2	Rosenberger Micro-Coax
	Calibration Details		*Last Execution* *Next Exec.*
	Path Calibration		2011/05/11 2011/11/10
Double-ridged horn	HF 906	357357/001	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard Calibration		2009/04/16 2012/04/15
Double-ridged horn	HF 906	357357/002	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard Calibration		2009/04/28 2012/04/27
High Pass Filter	4HC1600/12750-1.5-KK	9942011	Trilithic
	Calibration Details		*Last Execution* *Next Exec.*
	Path Calibration		2011/05/11 2011/11/10
High Pass Filter	5HC2700/12750-1.5-KK	9942012	Trilithic
	Calibration Details		*Last Execution* *Next Exec.*
	Path Calibration		2011/05/11 2011/11/10
High Pass Filter	5HC3500/12750-1.2-KK	200035008	Trilithic
	Calibration Details		*Last Execution* *Next Exec.*
	Path Calibration		2011/05/11 2011/11/10
High Pass Filter	WHKX 7.0/18G-8SS	09	Wainwright
	Calibration Details		*Last Execution* *Next Exec.*
	Path Calibration		2011/05/11 2011/11/10
Horn Antenna Schwarzbeck 15-26 GHz BBHA 9170	BBHA 9170		
Log.-per. Antenna	HL 562 Ultralog	830547/003	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard Calibration		2009/05/27 2012/05/26
Loop Antenna	HFH2-Z2	829324/006	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	DKD calibration		2008/11/17 2011/11/16
	Standard calibration		2011/10/27 2014/10/26
Pyramidal Horn Antenna 26,5 GHz	3160-09	00083069	EMCO Elektronik GmbH
Pyramidal Horn Antenna 40 GHz	3160-10	00086675	EMCO Elektronik GmbH
Tilt device Maturo (Rohacell)	Antrieb TD1.5-10kg	TD1.5-10kg/024/3790709	Maturo GmbH

Test Equipment Auxiliary Test Equipment

Lab ID:	**Lab 1**
Manufacturer:	see single devices
Description:	Single Devices for various Test Equipment
Type:	various
Serial Number:	none

Single Devices for Auxiliary Test Equipment

Single Device Name	*Type*	*Serial Number*	*Manufacturer*
AC Power Source	Chroma 6404	64040001304	Chroma ATE INC.
Broadband Power Divider N (Aux)	1506A / 93459	LM390	Weinschel Associates
Broadband Power Divider SMA	WA1515	A855	Weinschel Associates
Digital Multimeter 03 (Multimeter)	Fluke 177	86670383	Fluke Europe B.V.
	Calibration Details		*Last Execution* *Next Exec.*
	Standard calibration		2009/11/17 2011/11/16
	Customized calibration		2011/10/19 2013/10/18
Fibre optic link Satellite (Aux)	FO RS232 Link	181-018	Pontis
Fibre optic link Transceiver (Aux)	FO RS232 Link	182-018	Pontis
Isolating Transformer	LTS 604	1888	Thalheimer Transformatorenwerke GmbH
Notch Filter Ultra Stable (Aux)	WRCA800/960-6EEK	24	Wainwright
Vector Signal Generator	SMIQ 03B	832492/061	Rohde & Schwarz GmbH & Co.KG

Test Equipment Digital Signalling Devices

Lab ID: **Lab 1**
Description: Signalling equipment for various wireless technologies.

Single Devices for Digital Signalling Devices

Single Device Name	*Type*	*Serial Number*	*Manufacturer*
Bluetooth Signalling Unit CBT	CBT	100589	Rohde & Schwarz GmbH & Co. KG
Universal Radio Communication Tester	CMU 200	102366	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard calibration		2011/05/26 2013/05/25
	HW/SW Status		*Date of Start* *Date of End*
	Hardware: B11, B21V14, B21-2, B41, B52V14, B52-2, B53-2, B56V14, B68 3v04, PCMCIA, U65V04 Software: K21 4v21, K22 4v21, K23 4v21, K24 4v21, K42 4v21, K43 4v21, K53 4v21, K56 4v22, K57 4v22, K58 4v22, K59 4v22, K61 4v22, K62 4v22, K63 4v22, K64 4v22, K65 4v22, K66 4v22, K67 4v22, K68 4v22, K69 4v22 Firmware: µP1 8v50 02.05.06 ---		2007/07/16
Universal Radio Communication Tester	CMU 200	837983/052	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard calibration		2008/12/01 2011/11/30
	HW/SW Status		*Date of Start* *Date of End*
	HW options: B11, B21V14, B21-2, B41, B52V14, B52-2, B53-2, B54V14, B56V14, B68 3v04, B95, PCMCIA, U65V02 SW options: K21 4v11, K22 4v11, K23 4v11, K24 4v11, K27 4v10, K28 4v10, K42 4v11, K43 4v11, K53 4v10, K65 4v10, K66 4v10, K68 4v10, Firmware: µP1 8v40 01.12.05 ---		2007/01/02
	SW: K62, K69		2008/11/03

Test Equipment Emission measurement devices

Lab ID:	**Lab 1**
Description:	Equipment for emission measurements
Serial Number:	see single devices

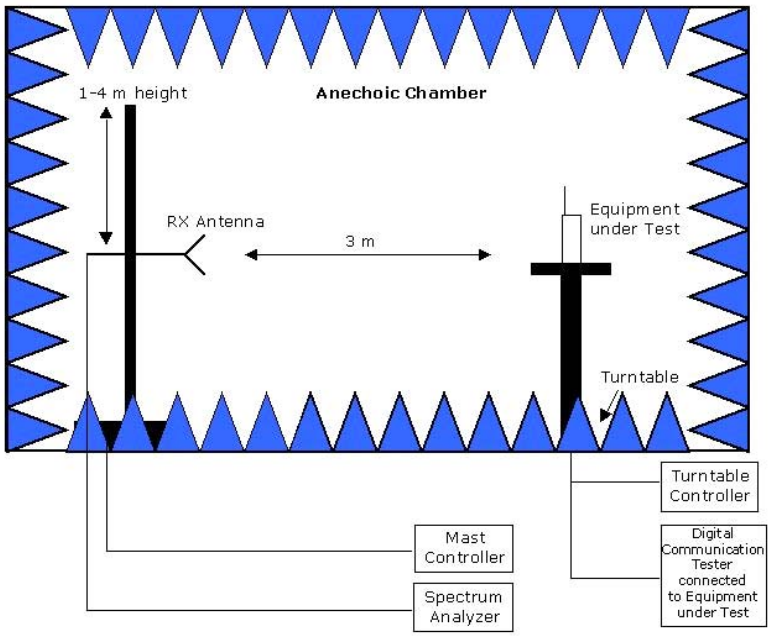
Single Devices for Emission measurement devices

Single Device Name	*Type*	*Serial Number*	*Manufacturer*
Personal Computer	Dell	30304832059	Dell
Power Meter	NRVD	828110/016	Rohde & Schwarz GmbH & Co.KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard calibration		2011/05/03 2012/05/02
Power Sensor	NRV-Z1	836219/005	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard Calibration		2009/10/20 2011/10/19
Powermeter	NRVS	836333/064	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard calibration		2009/11/15 2011/11/14
Sensor Head A	NRV-Z1	827753/005	Rohde & Schwarz GmbH & Co.KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard calibration		2011/05/02 2012/05/01
Signal Generator	SMR 20	846834/008	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	standard calibration		2011/05/12 2014/05/11
Spectrum Analyzer	ESIB 26	830482/004	Rohde & Schwarz GmbH & Co. KG
	Calibration Details		*Last Execution* *Next Exec.*
	Standard Calibration		2009/12/03 2011/12/02
	HW/SW Status		*Date of Start* *Date of End*
	Firmware-Update 4.34.4 from 3.45 during calibration		2009/12/03

5 Annex

5.1 Additional Information for Report

Setup Drawings



Remark: Depending on the frequency range suitable antenna types, attenuators or preamplifiers are used.

Setup in the Anechoic chamber:
Measurements below 1 GHz: Semi-anechoic, conducting ground plane.
Measurements above 1 GHz: Fully-anechoic, absorbers on all surfaces

6 Index