



Test Report E-0504-4901-05 RM

Type / Model Name:	KONTRON Clinic-BPC B-101			
Product Description:	Medical PC System			
Applicant:	Kontron Europe GmbH			





EMC -- TEST REPORT

Test Report No. :	E-0504-4901-05 RM	2013-08-14		
rest report ito.	2 0304 4301 03 KW	Date of issue		

Type / Model Name : KONTRON Clinic-BPC B-101

Product Description : Medical PC System

Applicant : Kontron Europe GmbH

Address : Sudetenstraße 7

87600 Kaufbeuren

Germany

Manufacturer : Kontron Europe GmbH

Address : Sudetenstraße 7

87600 Kaufbeuren

Germany

Test Result according to the	
standards listed in clause 1 test	
standards:	

POSITIVE





The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test results without the written permission of the test laboratory.





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<u>TEST STANDARDS</u>

The tests were performed according to following standards:

FCC Part 15 Subpart A Code of Regulations Part 15 (Radio Frequency Devices), Subpart A

October 2010 (General) of the Federal Communications Commision (FCC)

FCC Part 15 Subpart B Code of Regulations Part 15 (Radio Frequency Devices), Subpart B October 2010

(Unintentional Radiators) of the Federal Communications Commision

(FCC)

Class A Applied Paragraphs: §15.107, §15.109

ANSI C63.4-2003 American National Standard for Methods of Measurement of Radio-

Noise Emissions from Low-Voltage Electrical and Electronic

Equipment in the Range of 9kHz - 40 GHz

OVERVIEW TEST RESULT

Performed test(s)	Passed	Failed	Not performed
Conducted disturbance	X		
Radiated disturbance (electric field)	X		
Radiated disturbance (1 to 16GHz)	Х		





3 SUMMARY

Wolfgang Straubinger

Manager EMC Group

GENERAL REMARKS:	
The EUT was grounded via medical	potential equalization plug during all tests.
The test settings for the Burn in test	were carried out by the applicant.
According to the applicants declarati	on the device is sold in two different names.
FINAL ASSESSMENT:	
The equipment under test fulfills the	EMC requirements cited in clause 1 test standards.
Date of receipt of test sample	: acc. to storage records
Testing commenced on	: 2013-06-10
Testing concluded on	: 2013-06-23
Checked by:	Tested by:

File No. E-0504-4901-05 RM

Michael Raith

Test Engineer





4 EQUIPMENT UNDER TEST

4.1 Photo documentation of the EuT



EUT









EUT



Lable





Periphery:



Keyboard



Mouse





Headset



LCD TFT Monitor (1)





LCD TFT Monitor (2)



SAM Image Master (Server 1)





New SAM Assembly without OA2.1 (Server 2)



Solid-state drives (SSD's) from EUT





Burn in test settings:







4.2 Power supply system

Power supply voltage: 115 V / 60 Hz / 16

4.3 Short description of the Equipment under Test (EuT)

The medical grade PC is a passive cooled (fan-less) device and has an internal AC/DC power supply. It is designed for continuous operation (7x24h) and is suitable for use in a clinical environment. It can be used in hospital intensive care (OR, ICU, ER) as well as office environment. The medical grade PC is not life-sustaining, not directly patient-coupled and doesn't measure any physiological parameters.

Number of tested samples:

Serial number: 444444001

Dimensions: L: 365 mm W: 80 mm H: 310 mm

EuT operation mode:

The equipment under test was operated during the measurement under the following conditions:

- Burn in test is active and a Ping-to-Ping connection to the external Servers from client is running

EuT configuration:

The following interface cables and peripheral devices were connected during the measurements:

Interface cables:

Interface cable	Length	Туре	Line		Line termination
	[m]		shielded	unshielded	
AC power line	2,5	3-wires		\boxtimes	EUT
LAN 1	5	8-wires	\boxtimes		SAM Image Master
LAN 2A	5	8-wires	\boxtimes		New SAM Assembly without
					OA2.1
LAN 2B	5	8-wires	\boxtimes		None
DVI-D 1	1,5	24-wires	\boxtimes		LCD TFT Monitor
DVI-D 2	1,5	24-wires	\boxtimes		LCD TFT Monitor
COM-Port 1	3	9-wires	\boxtimes		Terminationresistor
COM-Port 2	3	9-wires	\boxtimes		Terminationresistor
COM-Port 3	3	9-wires	\boxtimes		Terminationresistor
USB 1	0,3	4-wires	\boxtimes		Solid-state drive
USB 2	0,3	4-wires	\boxtimes		Solid-state drive
USB 3	1	4-wires	\boxtimes		Mouse
USB 4	1	4-wires	\boxtimes		Keyboard
Line In 1	1	2-wires		\boxtimes	LCD TFT Monitor
Line In 2	1	2-wires		\boxtimes	Headset
Line Out 1	1	2-wires		\boxtimes	None
Line Out 2	1	2-wires		\boxtimes	Headset
Ground	4	1-wire		\boxtimes	PE





Peripheral devices:

Kind of equipment	S/N or Model	Manufacturer
SAM Image Master	453564159281 Rev. 941	Kontron Europe GmbH
New SAM Assembly without OA2.1	105902	Kontron Europe GmbH
LCD TFT Monitor	220B2	Philips
LCD TFT Monitor	220B2	Philips
Keyboard	Cherry	RS 6000 USB ON
Mouse	Microsoft	Comfort Mouse 3000 for Business
Solid-state drive (SSD)	128GB	Transcend
Solid-state drive (SSD)	128GB	Transcend





5 TEST ENVIRONMENT

5.1 Address of the test laboratory

emitel GmbH
Ohmstrasse 1
94342 STRASSKIRCHEN
DEUTSCHLAND

Laboratory registration numbers:

DAkkS Registration number:

KBA Registration number:

SNCH Registration number:

SNCH 001/2005

FCC Registration number: 765810
IC Registration number: IC 5066A-1

5.2 Statement regarding the usage of logos at test reports

The logos of accreditation- and notification bodies displayed at this test reports are only valid for standards listed at the accreditation- or notification scope of emitel GmbH.

5.3 Environmental conditions

During the measurement the environm	ental conditions were within the listed ranges:	
Temperature:	15-35 ° C	
Humidity:	30-60 %	
Atmospheric pressure:	86-106 kPa	
All atmospheric pressure values refer t	o our Laboratory altitude of 324m.	

5.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16-4-2 "Uncertainties, statistics and limit modelling – Uncertainty in EMC measurements" and is documented in the quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer does have the sole responsibility for the continued compliance of the device.





5.5 Measurement Protocol for FCC, VCCI and AUSTEL

5.5.1 GENERAL INFORMATION

5.5.1.1 <u>Test Methodology</u>

Conducted and radiated disturbance testing is performed according to the procedures in International Special Committee on Radio Interference (CISPR) Publication 22 (1997+A1:2000+A2:2002), European Standard EN 55022 (1998+A1:2000+A2:2003) and Australian Standard AS 3548 (which are based on CISPR 22).

The Japanese standard, "Voluntary Control Council for Interference (VCCI) by Data Processing Equipment and Electronic Office Machines, Technical Requirements" is technically equivalent to CISPR 22 (1997+A1:2000 +A2:2002). For official compliance, a conformance report must be sent to and accepted by the VCCI.

In compliance with FCC Docket 92-152, "Harmonization of Rules for Digital Devices Incorporate International Standards", testing for FCC compliance may be done following the ANSI C63.4-2003 procedures and using the CISPR 22 Limits.

5.5.1.2 Measurement Error

The data and results referenced in this document are true and accurate. The reader is cautioned that there is some measurement variability due to the tolerances of the test equipment that can contribute to a nominal product measurement uncertainty. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16-4-2 and is documented in the emitel AG quality system according to DIN EN ISO/IEC 17025. Furthermore, component differences and manufacturing process variability of production units similar to that tested may result in additional product uncertainty. If necessary, refer to the test lab for the actual measurement uncertainty for specific tests. The manufacturer has the sole responsibility of continued compliance of the device.

5.5.1.3 Justification

The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into it's characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum disturbances from the unit.

5.5.2 CONDUCTED DISTURBANCE

The final level, expressed in $dB_{\mu}V$, is arrived at by taking the reading directly from the EMI receiver. This level is compared directly to the CISPR limit, which is equivalent to the Australian AS 3548 limit.

To convert between dB μ V and μ V, the following conversions apply: dB μ V = 20(log μ V) μ V = Inverse log(dB μ V/20)





5.5.3 RADIATED DISTURBANCE

The final level, expressed in $dB\mu V/m$, is arrived at by taking the reading from the EMI receiver (Level $dB\mu V$) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This is done automatically in the EMI receiver, where the correction factor are stored. This result then has the CISPR limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets in section 5.2. The CISPR 22 limit is equivalent to the Australian AS 3548 limit.

Example:	CISPR	В	Delta							
Fre	equency	Level	+	Factor	=	Final	-	Limit	=	CISPR B
(M	Hz)	(dBμV)		(dB)		(dBμV/	m)	(dBμV/	m)	(dB)
37	.19	10.2	+	12.0	=	22.2	_	40.0	=	-17.8

5.5.4 DETAILS OF TEST PROCEDURES

5.5.4.1 General Standard Information

The test methods used comply with CISPR Publication 22 (1997+A1:2000+A2:2002), EN 55022 (1998+A1:2000+A2:2003) and AS 3548 (1992) - "Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment" and with ANSI C63.4-2003 - "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz."

5.5.4.2 Conducted disturbance

Conducted disturbance on the 50 Hz and/or 60 Hz power interface of the EUT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi peak detection, and a Line Impedance Stabilization Network (LISN), with $50\Omega/50~\mu H$ (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimetres above the floor and is positioned 40 centimetres from the vertical ground plane (wall) of the screen room. If the minimum passing margin appears to be less than 20 dB with a peak mode measurement, the emissions are remeasured using a tuned receiver with quasi peak and average detection and recorded on the data sheets.

5.5.4.3 Radiated disturbance

Radiated disturbance from the EUT are measured in the frequency range of 30 to 1000 MHz using a tuned receiver and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi peak detection and measurements above 1000 MHz are made with a 1 MHz/6 dB bandwidth and average/peak detection. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimetres above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimetres to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimetres from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna was positioned 3, 10 or 30 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees.





6 TEST CONDITIONS AND RESULTS

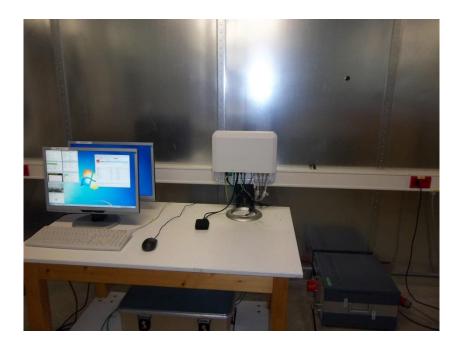
6.1 Conducted disturbance

For test instruments and accessories used see section 7 Part A 4.

6.1.1 Description of the test location

Test location: Shielded room SK4

6.1.2 Photo documentation of the test set-up



6.1.3 Test specification

Environmental conditions:	Temperature:	27 ° C	Humidity:	48 %	Atmospheric pressure:	101 kPa
Frequency range:	0.15 MH	dz – 30 MH	Z			
The test was carried out in the Burn in test is active and a	0 1		` '	Servers fi	rom client is running	
6.1.4 Test result						

Minimal marg	in to limit	6,3 dB at 0,255 MHz
The requirem	ents are Fulfilled .	
Remarks:	None.	





6.1.5 Test protocol

Test point: Phase L1 Result: SCAN

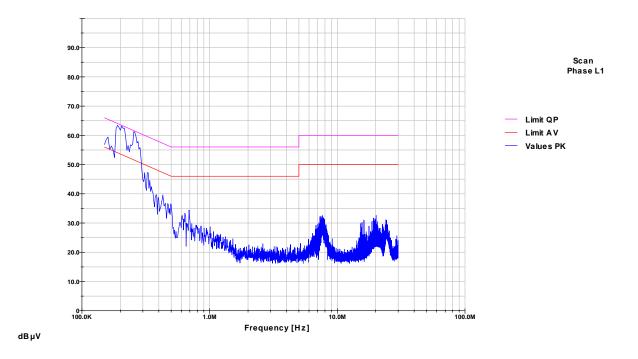
Operation mode: Burn in test is active and a Ping-to-Ping connection to

the external Servers from client is running

Remarks: none

Date: 2013-06-10 Tested by: Raith Michael

Start frequency [MHZ]	Stop frequency [MHZ]	Resolution bandwidth	step size	Measurement time	Detector
0.15	30	10 kHz	5 kHz	1.0 s	Peak





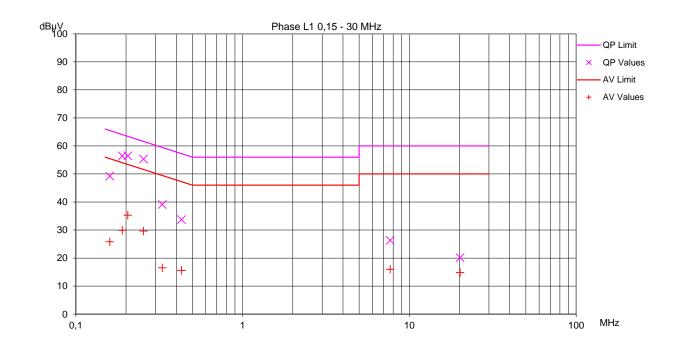


Test point: Phase L1 Result: passed

Operation mode: Burn in test is active and a Ping-to-Ping connection to

the external Servers from client is running

Remarks: none
Date: 2013-06-10
Tested by: Raith Michael



Minimum margin to limit: 6,3 dB

Frequency	Reading	g [dBµV]	Correction	Values	[dBµV]	Limit [dBµV]		Margi	n [dB]
[MHz]	QP	AV	[dB]	QP	AV	QP	AV	QP	AV
0,160	49,0	25,6	0,2	49,2	25,8	65,5	55,5	16,3	29,7
0,190	56,2	29,7	0,2	56,4	29,9	64,0	54,0	7,6	24,1
0,205	56,3	35,1	0,2	56,5	35,3	63,4	53,4	6,9	18,1
0,255	55,1	29,4	0,2	55,3	29,6	61,6	51,6	6,3	22,0
0,330	38,9	16,3	0,2	39,1	16,5	59,5	49,5	20,4	33,0
0,430	33,5	15,4	0,2	33,7	15,6	57,3	47,3	23,6	31,7
7,680	26,0	15,7	0,3	26,3	16,0	60,0	50,0	33,7	34,0
20,165	19,6	14,3	0,5	20,1	14,8	60,0	50,0	39,9	35,2





Test point: Phase N Result: SCAN

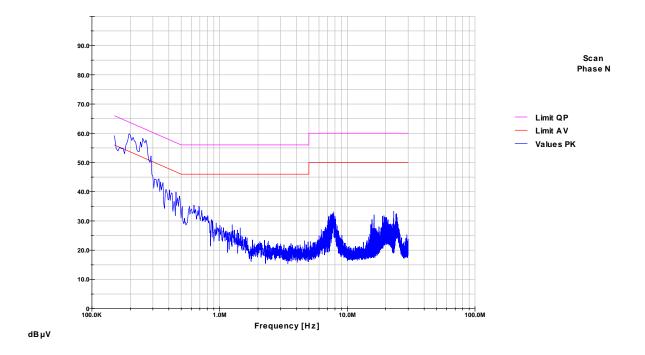
Operation mode: Burn in test is active and a Ping-to-Ping connection to

the external Servers from client is running

Remarks: none

Date: 2013-06-10 Tested by: Raith Michael

Start frequency [MHZ]	Stop frequency [MHZ]	Resolution bandwidth	step size	Measurement time	Detector
0.15	30	10 kHz	5 kHz	1.0 s	Peak





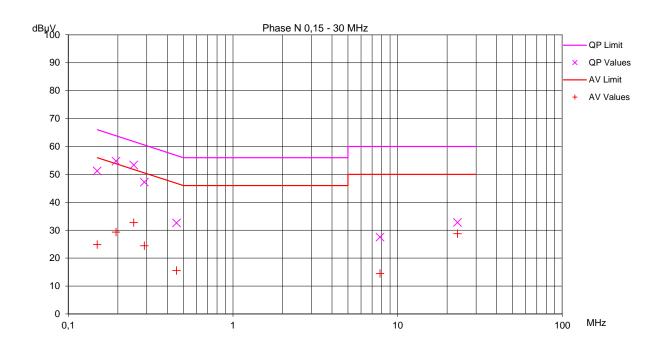


Test point: Phase N Result: passed

Operation mode: Burn in test is active and a Ping-to-Ping connection to

the external Servers from client is running

Remarks: none
Date: 2013-06-10
Tested by: Raith Michael



Minimum margin to limit: 8,5 dB

Frequency	Reading	Reading [dBµV]		correction Values [dBµV] Lin		Limit [dBµV]		Margi	n [dB]
[MHz]	QP	AV	[dB]	QP	AV	QP	AV	QP	AV
0,150	51,0	24,6	0,2	51,2	24,8	66,0	56,0	14,8	31,2
0,195	54,5	29,1	0,2	54,7	29,3	63,8	53,8	9,1	24,5
0,250	53,1	32,5	0,2	53,3	32,7	61,8	51,8	8,5	19,1
0,290	47,0	24,2	0,2	47,2	24,4	60,5	50,5	13,3	26,1
0,455	32,4	15,3	0,2	32,6	15,5	56,8	46,8	24,2	31,3
7,830	27,2	14,2	0,3	27,5	14,5	60,0	50,0	32,5	35,5
23,130	32,2	28,2	0,5	32,7	28,7	60,0	50,0	27,3	21,3





6.2 Radiated disturbance (electric field)

For test instruments and accessories used see section 7 Part A 5.

6.2.1 Description of the test location

Test location: OATS 3

Test distance: 3 metres

6.2.2 Photo documentation of the test set-up



6.2.3 Test specification

Environmental conditions:	Temperature:	30 ° C	Humidity:	50 %	Atmospheric pressure:	100 kPa
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Frequency range: 30 MHz – 1000 MHz

The test was carried out in the following operation mode(s):

- Burn in test is active and a Ping-to-Ping connection to the external Servers from client is running

6.2.4 Test result

Minimal margin to limit 6,8 dB at 829,280 MHz

The requirements are Fulfilled.

Remarks:	None.			





6.2.5 Test protocol

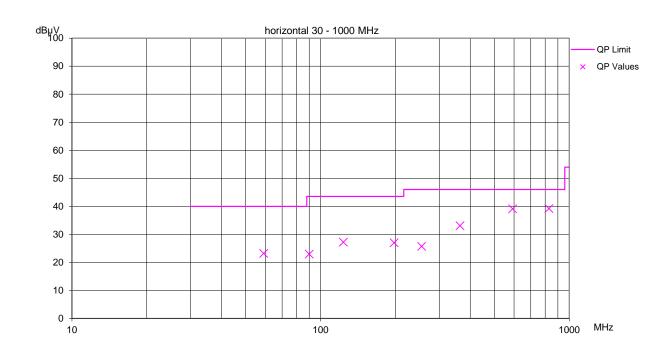
Antenna polarisation: horizontal Result: Test passed

Operation mode: Burn in test is active and a Ping-to-Ping connection to

the external Servers from client is running

Remarks: none

Date: 2013-06-13 Tested by: Raith Michael



Minimum margin to limit: 6,8 dB

Frequency	Reading	j [dΒμV]	Correction	Values [d	BμV]	Limit [d	BµV]	Margii	n [dB]
[MHz]	QP		[dB]	QP		QP		QP	
59,100	9,3		13,9	23,2		40,0		16,8	
90,140	10,8		12,1	22,9		43,5		20,6	
123,600	15,5		11,7	27,2		43,5		16,3	
197,780	13,6		13,4	27,0		43,5		16,5	
255,040	10,5		15,2	25,7		46,0		20,3	
363,780	14,8		18,3	33,1		46,0		12,9	
592,500	16,2		22,9	39,1		46,0		7,0	
829,280	13,3		25,9	39,2		46,0		6,8	





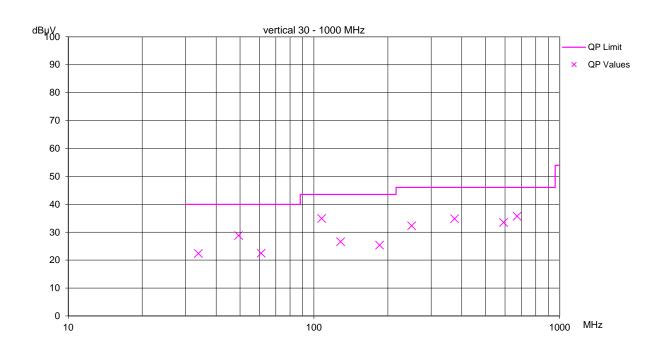
Antenna polarisation: vertical Result: Test passed

Operation mode: Burn in test is active and a Ping-to-Ping connection to

the external Servers from client is running

Remarks: none 2013-06-

Date: 2013-06-13 Tested by: Raith Michael



Minimum margin to limit: 8,6 dB

Frequency	Reading	[dBµV]	Correction	Values [dBµ	ιV] Limit [dΒμV]	Margin [dB]
[MHz]	QP		[dB]	QP	QP	QP
33,880	8,4		13,9	22,3	40,0	17,7
49,400	13,7		15,1	28,8	40,0	11,2
61,040	9,1		13,4	22,5	40,0	17,5
107,600	21,0		13,9	34,9	43,5	8,6
128,520	15,4		11,2	26,6	43,5	16,9
185,220	12,7		12,6	25,3	43,5	18,2
250,020	17,2		15,1	32,3	46,0	13,7
373,880	16,4		18,4	34,8	46,0	11,2
592,500	10,6		22,9	33,5	46,0	12,6
672,140	11,8		23,9	35,7	46,0	10,3





6.3 Radiated disturbance (1 to 16GHz)

For test instruments and accessories used see section 7 Part A 9.

6.3.1 Description of the test location

Test location: Anechoic Chamber A4

Test distance: 3 metres

6.3.2 Photo documentation of the test set-up



6.3.3 Test specification

Environmental conditions: Te	nperature: 27 ° C	Humidity: 45	5 % Atmospheric p	oressure: 100 kPa
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Frequency range: 1000 MHz – 16000 MHz

The test was carried out in the following operation mode(s):

- Burn in test is active and a Ping-to-Ping connection to the external Servers from client is running

6.3.4 Test result

Minimal margin to limit

wiii iii iai ii iai g	II to iii iii	0,9 db at 13014 MHZ + 13302 MHZ	
The requirem	ents are Fulfilled .		
Remarks:	None.		

0.0 AP of 12614 MHz + 12592 MHz





Dimension of the line tangent to the EUT according to CISPR 16-2-3:2006 Antenna: Emco 3115

Note: The Θ 3dB min values were given by the antenna manufacturer

Frequenz GHz	⊙ 3dB min	Measurement distance	w min
1	60	3 m	3,46
2	50	3 m	2,79
4	46	3 m	2,54
6	40	3 m	2,18





6.3.5 Test protocol

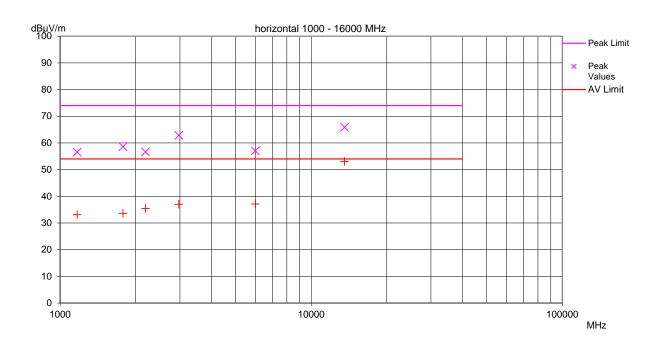
Antenna polarisation: horizontal Result: Test passed

Operation mode: Burn in test is active and a Ping-to-Ping connection to

the external Servers from client is running

Remarks: none

Date: 2013-06-23 Tested by: Raith Michael



Minimum margin to limit: 0,9 dB

Frequency	y Reading [dBμV]		Correction	Values [dBµV/m]	Limit [d	BµV/m]	Margi	n [dB]
[MHz]	Peak	AV	[dB]	Peak	AV	Peak	AV	Peak	AV
1170,000	66,8	43,4	-10,3	56,5	33,1	74,0	54,0	17,5	20,9
1782,000	65,9	40,9	-7,3	58,6	33,6	74,0	54,0	15,4	20,4
2190,000	63,2	42,0	-6,6	56,6	35,4	74,0	54,0	17,4	18,6
2972,000	66,6	40,8	-3,8	62,8	37,0	74,0	54,0	11,2	17,0
5998,000	56,7	36,8	0,3	57,0	37,1	74,0	54,0	17,0	16,9
13582,000	57,8	45,0	8,0	65,8	53,0	74,0	54,0	8,1	0,9



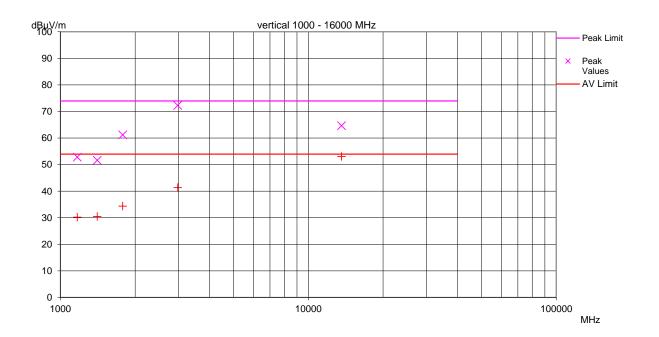


Antenna polarisation: vertical Result: Test passed

Operation mode: Burn in test is active and a Ping-to-Ping connection to

the external Servers from client is running

Remarks: none
Date: 2013-06-23
Tested by: Raith Michael



Minimum margin to limit: 0,9 dB

Frequency	Reading [dBµV]		Correction	Values [dBµV/m]		Limit [dBµV/m]		Margin [dB]	
[MHz]	Peak	AV	[dB]	Peak	ΑV	Peak	AV	Peak	AV
1170,000	63,1	40,5	-10,3	52,8	30,2	74,0	54,0	21,2	23,8
1408,000	61,3	40,2	-9,7	51,6	30,5	74,0	54,0	22,4	23,5
1782,000	68,5	41,7	-7,3	61,2	34,4	74,0	54,0	12,8	19,6
2972,000	76,1	45,2	-3,8	72,3	41,4	74,0	54,0	1,7	12,6
13614,000	56,6	45,0	8,1	64,7	53,1	74,0	54,0	9,3	0,9





7 USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.

Test ID	Model Type	Equipment No.	Next Calib.	Last Calib.	Next Verif.	Last Verif.
A 4	ESH 3	01-02/03-01-005	08/01/2014	08/01/2013		
	ESH2-Z5	01-02/20-01-001	26/01/2014	26/01/2011	01/03/2014	01/03/2013
	ESH3-Z5	01-02/20-04-005				
	ESH 3 - Z 2	01-02/50-02-020	11/12/2013	11/12/2012		
	BNC-3000-N	01-02/50-07-008				
	N-5000-N	01-02/50-07-009				
	7/16-7000-7/16	01-02/50-09-002				
	HCS-3304	01-02/50-13-001				
	Tile Version 3.4K20	01-02/68-09-001				
	EA-SST 2000B-4,5	01-05/50-09-002				
A 5	ESVP	01-02/03-01-002	18/03/2014	18/03/2013		
	HM 5012	01-02/11-01-001				
	VULB 9168	01-02/24-03-007	07/09/2015	07/09/2012		
	N-40000-N	01-02/50-05-043				
	N-30000-N	01-02/50-05-044				
	7/16-7000-7/16	01-02/50-09-002				
	HCS-3304	01-02/50-13-001				
	Tile Version 3.4K20	01-02/68-09-001				
	EA-SST 2000B-4,5	01-05/50-09-002				
A 9	AMF-40-005-180-24-10P	01-02/17-02-009			24/04/2014	24/04/2013
	3115	01-02/24-01-011	17/05/2018	17/05/2013		
	HCS-3304	01-02/50-13-001				
	EA-SST 2000B-4,5	01-05/50-09-002				
	FSP 30	02-02/11-05-001	18/10/2013	18/10/2012		