



EMI - TEST REPORT

- FCC Part 15.209-

Test Report No.: T37170-00-00KG

10. September 2013

Date of issue

Type / Model Name : USB Card Reader / MU02016

Product Description : USB Card reader working at 125 kHz

Applicant: Y SOFT Corporation, a. s.

Address : Czech Technology Park, Technicka 2948/13

616 00 BRNO, Czech Republic

Manufacturer: Y SOFT Corporation, a. s.

Address : Czech Technology Park, Technicka 2948/13

616 00 BRNO, Czech Republic

Licence holder : Y SOFT Corporation, a. s.

Address : U Knezske louky 2151/18

130 00 Praha 3, Czech Republic

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.





Contents

1 TEST STANDARDS	3
2 SUMMARY	4
a compact these test	_
3 EQUIPMENT UNDER TEST	5
3.1 PHOTO DOCUMENTATION OF THE EUT	5
3.2 POWER SUPPLY SYSTEM UTILISED	11
3.3 SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT)	11
4 TEST ENVIRONMENT	12
4.1 ADDRESS OF THE TEST LABORATORY	12
4.2 ENVIRONMENTAL CONDITIONS	12
4.3 STATEMENT OF THE MEASUREMENT UNCERTAINTY	12
4.4 MEASUREMENT PROTOCOL FOR FCC, VCCI AND AUSTEL	12
5 TEST CONDITIONS AND RESULTS	14
5.1 CONDUCTED EMISSIONS	14
5.2 FIELD STRENGTH OF THE FUNDAMENTAL WAVE	18
5.3 Spurious emissions (Magnectic Field) 9 kHz – 30 MHz	20
5.1 RADIATED EMISSION	22
5.2 EMISSION BANDWIDTH	24
6 USED TEST FOUIPMENT AND ACCESSORIE	· S 26





1 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 15 Subpart A - General (September, 2012)

Part 15, Subpart A, Section 15.31 Measurement standards

Part 15, Subpart A, Section 15.33 Frequency range of radiated measurements

Part 15, Subpart A, Section 15.35 Measurement detector functions and bandwidths

FCC Rules and Regulations Part 15 Subpart B- Intentional Radiators (September, 2012)

Part 15, Subpart C, Section 15.109(a) Radiated emissions, general requirements

FCC Rules and Regulations Part 15 Subpart C-Intentional Radiators (September, 2012)

Part 15, Subpart C, Section 15.207(c) Conducted limits

Part 15, Subpart C, Section 15.209(a) Radiated emissions, general requirements

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.

ANSI C63.10: 2009 Testing Unlicensed Wireless Devices

CISPR 16-4-2: 2003 Uncertainty in EMC measurement

CISPR 22: 2005 Information technology equipment

EN 55022: 2006





2 SUMMARY

GENERAL REMARKS:	
The EuT is working at frequency of	125 kHz.
FINAL ASSESSMENT:	
The equipment under test fulfills the	e EMI requirements cited in clause 1 test standards.
Date of receipt of test sample	: _acc. to storage records
Testing commenced on	: _21. August 2013
Testing concluded on	: 10. September 2013
Checked by:	Tested by:
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Eduard Stangl	Klaus Gegenfurtner
DiplIng.(FH) Technical Director	DiplIng. (FH)

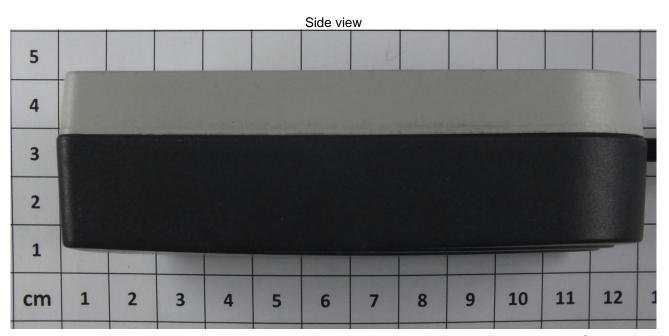




3 EQUIPMENT UNDER TEST

3.1 Photo documentation of the EuT

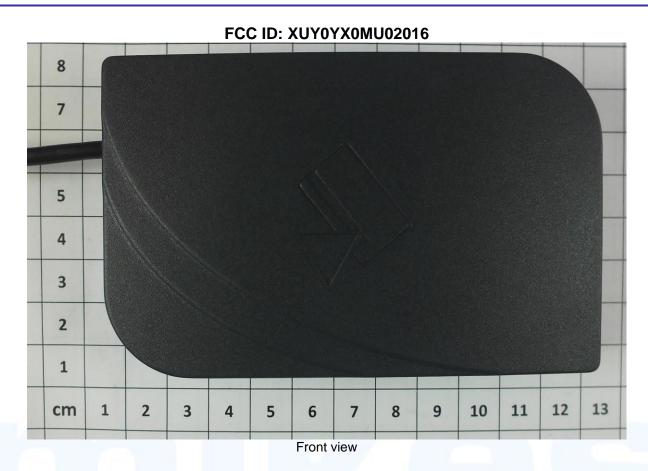




mikes-testingpartners gmbh Ohmstrasse 2-4 · 94342 Strasskirchen Tel.:+49(0)9424-94810 · Fax:+49(0)9424-9481240 File No. T37170-00-00KG, page 5 of 27









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File No. T37170-00-00KG, page 6 of 27





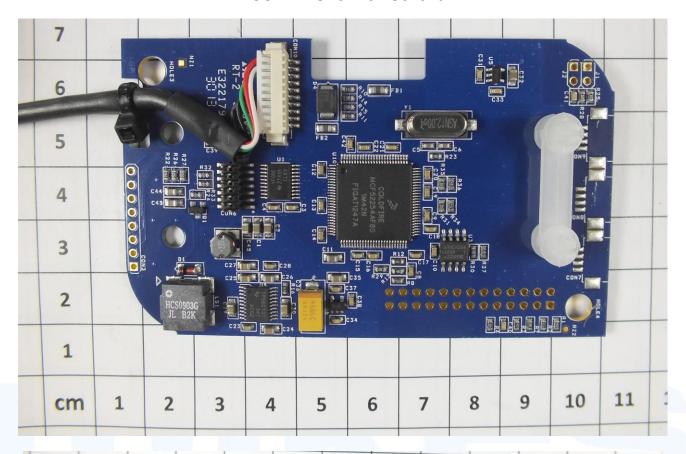
Labeling

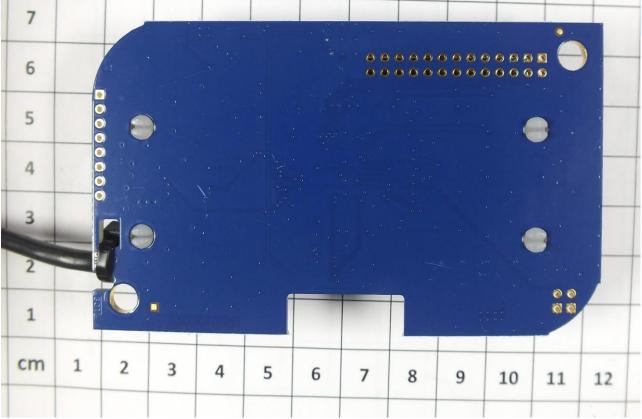






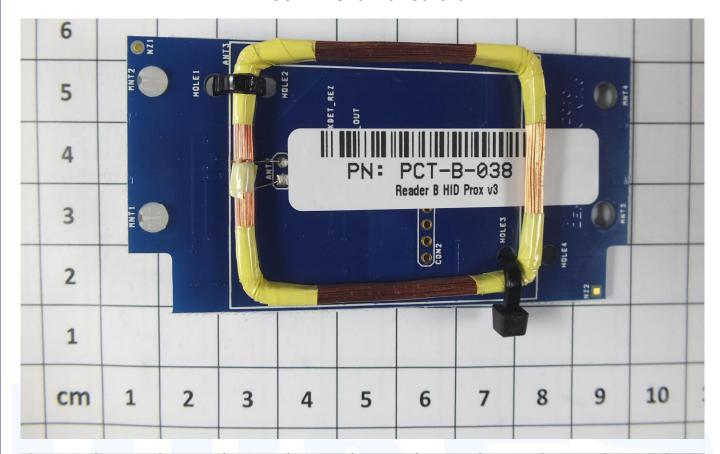


















Peripheral Device for Conducted emission test







3.2 Power supply system utilised	
	r 5V DC lub 115V AC / 60Hz
3.3 Short description of the Equipn	nent under Test (EuT)
The EuT is a card reader for reading of authentic	cation cards.
Number of tested samples: 1 Serial number: see Photo docur	mentation of the EuT under Point 3 / Equipment Under Test
EuT operation mode:	
The equipment under test was operated during the	he measurement under the following conditions:
- Tx mode at 125 kHz	
EuT configuration: (The CDF filled by the applicant can be viewed a The following peripheral devices and interface	e cables were connected during the measurements:
- Laptop Mikes Intern	Model : _Toshiba
- USB-Hub	Model : Trust
	Model :
	Model :
	Model:
-	Model:

File No. T37170-00-00KG, page 11 of 27

- customer specific cables





4 TEST ENVIRONMENT

4.1 Address of the test laboratory

mikes-testingpartners gmbh Ohmstrasse 2-4 94342 Strasskirchen Germany

4.2 Environmental conditions

During the measurement the environmenta	I conditions were within the listed range	es:
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Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 86-106 kPa

4.3 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 /11.2003 "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 has the sole responsibility of continued compliance of the device.

4.4 Measurement Protocol for FCC, VCCI and AUSTEL

4.4.1 GENERAL INFORMATION

4.4.1.1 Test Methodology

Conducted and radiated disturbance testing is performed according to the procedures in International Special Committee on Radio Interference (CISPR) Publication 22, European Standard EN 55022 as shown under section 1 of this report.

In compliance with 47 CFR Part 15 Subpart A Section 15.38 testing for FCC compliance may be done following the ANSI C63.4-2003 procedures and using the CISPR 22 Limits.





4.4.1.2 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 using the appropriate impedance characteristic or left unterminated. Where appropriate, cables are manually manipulated with respect to each other thus obtaining maximum disturbances from the unit.

4.4.2 DETAILS OF TEST PROCEDURES

General Standard Information

The test methods used comply with CISPR Publication 22, EN 55022 - "Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement" 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."







FCCID: XUY0YX0MU02016 TEST CONDITIONS AND RESULTS

5.1 Conducted emissions

For test instruments and accessories used see section 6 Part A 4.

5.1.1 Description of the test location

Test location: Shielded room S2

5.1.2 Photo documentation of the test set-up



5.1.3 Applicable standard

According to FCC Part 15, Section 15.207(a):

Except as shown in paragraphs (b) and (c) of this Section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the given limits.

5.1.4 Description of Measurement

The measurements are performed following the procedures set out in ANSI C63.4 described under item 4.4.3. If the minimum limit 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.





5.1.5 Test result

Frequency range: 0.15 MHz - 30 MHz

Min. limit margin >10 dB

Limit according to FCC Part 15, Section 15.207(a):

Frequency of Emission	Conducted Limit (dBµV)				
(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56 *	56 to 46 *			
0.5-5	56	46			
5-30	60	50			

^{*} Decreases with the logarithm of the frequency

The requirements are **FULFILLED**.

Remarks: To show the compliance with the FCC requirements the reader was connected to a standard

USB-Hub of company Trust.

For detailed test result please refer to following test protocol



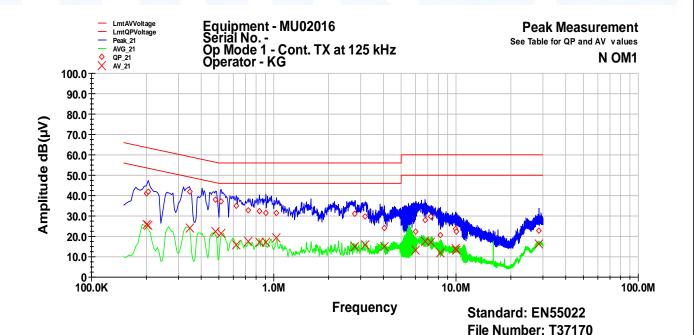


5.1.6 Test protocol

Test point N Result: Passed

Operation mode: Tx mode at 125 kHz Remarks: 115V AC / 60Hz

Frequency	QP Level	QP Margin	QP Limit	AV Level	AV Margin	AV Limit
MHz	dB(μV)	dB	dB	dB(μV)	dB	dB
0.2	41.0	-22.7	63.6	25.7	-27.9	53.6
0.205	41.8	-21.6	63.4	25.4	-28.0	53.4
0.345	41.9	-17.2	59.1	24.2	-24.9	49.1
0.48	38.2	-18.1	56.3	22.6	-23.8	46.3
0.515	37.1	-18.9	56.0	21.5	-24.5	46.0
0.625	35.2	-20.8	56.0	16.0	-30.0	46.0
0.725	32.6	-23.4	56.0	17.6	-28.4	46.0
0.835	32.5	-23.5	56.0	17.4	-28.6	46.0
0.905	31.6	-24.4	56.0	17.3	-28.7	46.0
1.035	31.6	-24.4	56.0	19.2	-26.8	46.0
2.785	31.1	-24.9	56.0	15.0	-31.0	46.0
3.185	29.8	-26.2	56.0	15.8	-30.2	46.0
4.05	23.9	-32.1	56.0	14.8	-31.2	46.0
5.975	22.5	-37.5	60.0	13.4	-36.7	50.0
6.765	27.9	-32.1	60.0	17.7	-32.3	50.0
7.3	29.9	-30.1	60.0	17.0	-33.0	50.0
8.2	20.7	-39.3	60.0	11.7	-38.3	50.0
9.935	23.5	-36.5	60.0	14.1	-35.9	50.0
10.08	22.2	-37.8	60.0	13.2	-36.8	50.0
28.545	22.9	-37.1	60.0	16.4	-33.6	50.0





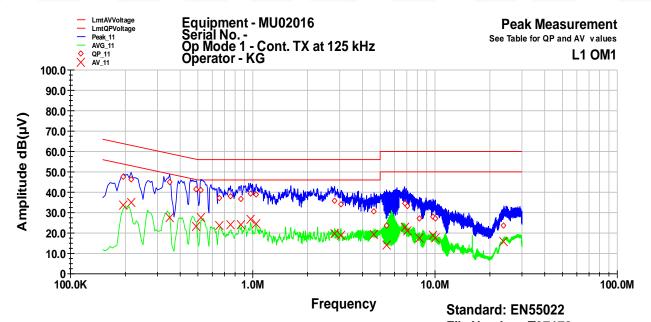


Test point: L1 Result: Passed

Operation mode: Tx mode at 125 kHz

Remarks: 115 V / 60Hz

Frequency	QP Level	QP Margin	QP Limit	AV Level	AV Margin	AV Limit
MHz	dB(μV)	dB	dB	dB(μV)	dB	dB
0.195	47.7	-16.2	63.8	33.9	-20.0	53.8
0.215	46.1	-16.9	63.0	35.2	-17.8	53.0
0.35	45.1	-13.8	59.0	27.6	-21.3	49.0
0.49	41.5	-14.7	56.2	23.1	-23.0	46.2
0.52	41.2	-14.8	56.0	27.7	-18.3	46.0
0.655	37.0	-19.0	56.0	23.7	-22.3	46.0
0.755	37.8	-18.2	56.0	24.2	-21.8	46.0
0.865	36.8	-19.2	56.0	24.1	-21.9	46.0
0.97	39.5	-16.5	56.0	26.6	-19.4	46.0
1.045	39.1	-16.9	56.0	24.7	-21.3	46.0
2.81	35.8	-20.2	56.0	19.9	-26.1	46.0
3.06	34.3	-21.7	56.0	18.9	-27.1	46.0
4.635	30.7	-25.3	56.0	19.3	-26.7	46.0
5.405	23.7	-36.3	60.0	14.3	-35.7	50.0
6.81	34.3	-25.7	60.0	23.0	-27.0	50.0
7.075	33.3	-26.7	60.0	21.0	-29.0	50.0
8.205	26.9	-33.1	60.0	17.6	-32.4	50.0
9.745	27.9	-32.1	60.0	18.9	-31.1	50.0
10.065	27.3	-32.7	60.0	17.5	-32.5	50.0
23.85	23.7	-36.3	60.0	15.9	-34.2	50.0



File Number: T37170





5.2 Field strength of the fundamental wave

For test instruments and accessories used see section 6 Part CPR 1.

5.2.1 Description of the test location

Test location: OATS1

Test distance: 3 metres

5.2.2 Photo documentation of the test set-up



5.2.3 Description of Measurement

The magnetic field strength from the EuT will be measured on an open area test site in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The set up of the Equipment under test will be in accordance to ANSI C63.4-2003. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions. In the case where larger measuring distances are required the results will extrapolated based on the values measured on the closer distances according to Section 15.31 (f) (2) [2]. The final measurement will be performed with an EMI Receiver set to Quasi Peak detector except for the frequency bands 9 kHz to 90 kHz and 110 to 490 kHz where an average detector will be used according to Section 15.209 (d) [2].





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 result then has to be compared with the relevant FCC limit.

The resolution bandwidth during the measurement is as follows:

9 kHz - 150 kHz: ResBW: 200 Hz 150 kHz - 30 MHz: ResBW: 9 kHz

Example:

Frequency	Level	+	Factor	= Level	Limit	=	Delta
(MHz)	(dBµV)		(dB)	(dBµV/m)	(dBµV/m)		(dB)
1.705	5	+	20	= 25	30	=	5

5.2.4 Test result

Measured value at 3m

I	Frequency	L: PK	L: AV	L: QP	Correct.	L: PK	L: AV	L: QP	Limit	Delta
	[MHz]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
	0.125	66.1	66.0	66.0	20.0	86.1	86.0	86.0	105.7	-19.7

Calculated value at 300m:

Frequency	L: PK	L: AV	L: QP	Correct.	L: PK	L: AV	L: QP	Limit	Delta
[MHz]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
0.125	-13.9	-14.0	-14.0	20.0	6.1	6.0	6.0	25.7	-19.7

Limit according to FCC Part 15 Subpart 15.209(a)

Frequency (MHz)	Field strength emiss	•	Measurement distance (meters)
	(μV/m)	dB (μV/m)	
0.009-0.490	2400/F(kHz)		300
0.490-1.705	24000/F (kHz)		30
1.705-30.0	30	29.5	30

Frequency (MHz)	Field strength of fundamental wave		Measurement distance (meters)
	(µV/m)	dB (µV/m)	
0.125	19.2	25.7	300

The requirements are FULFILLED .							
Remarks:							





5.3 Spurious emissions (Magnectic field) 9 kHz – 30 MHz

For test instruments and accessories used see section 6 Part SER 1.

5.3.1 Description of the test location

Test location: OATS1
Test distance: 3 metres

5.3.2 Photo documentation of the test set-up



5.3.3 Description of Measurement

The spurious emissions from the EuT will be measured on an open area test site in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions. In the case where larger measuring distances are required the results will extrapolated based on the values measured on the closer distances according to Section 15.31 (f) (2) [2]. The final measurement will be performed with an EMI Receiver set to Quasi Peak detector except for the frequency bands 9 kHz to 90 kHz and 110 to 490 kHz where an average detector will be used according to Section 15.209 (d) [2].

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 result then has to be compared with the relevant FCC limit.

The resolution bandwidth during the measurement is as follows:

9 kHz – 150 kHz: ResBW: 200 Hz 150 kHz – 30 MHz: ResBW: 9 kHz





Example:

Frequency Level Factor Level Limit Delta (MHz) $(dB\mu V)$ (dB) (dBµV/m) $(dB\mu V/m)$ (dB) 1.705 20 25 30 5

5.3.4 Test result

Measured value at 3m

Frequency [MHz]	L: PK [dBµV]	L: AV [dBµV]	L: QP [dBµV]	Correct. [dB]	L: PK [dBµV/m]	L: AV [dBµV/m]	L: QP [dBµV/m]	Limit [dBµV/m]	Delta [dB]
0.250	28.0	25.5	25.5	20.0	48.0	45.5	45.5	89.6	-44.1
0.375	33.4	30.5	30.5	20.0	53.4	50.5	50.5	86.4	-35.9
0.500	26.7	19.8	19.8	20.0	46.7	39.8	39.9	88.0	-48.1
0.625	24.5	18.0	18.0	20.0	44.5	38.0	38.0	78.4	-40.4
0.875	22.6	17.5	17.5	20.0	42.6	37.5	37.5	67.4	-29.9
1.125	20.6	14.8	15.0	20.0	40.6	34.8	35.0	61.3	-26.3

Calculated value at 300m:

Frequency	L: PK	L: AV	L: QP	Correct.	L: PK	L: AV	L: QP	Limit	Delta
[MHz]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
0.250	-52.0	-54.5	-54.5	20.0	-32.0	-34.5	-34.5	9.6	-44.1
0.375	-46.6	-49.5	-49.5	20.0	-26.6	-29.5	-29.5	6.4	-35.9

Calculated value at 30m:

Frequency	L: PK	L: AV	L: QP	Correct.	L: PK	L: AV	L: QP	Limit	Delta
[MHz]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
0.500	-13.3	-20.2	-20.2	20.0	6.7	-0.2	-0.1	48.0	-48.1
0.625	-15.5	-22.0	-22.0	20.0	4.5	-2.0	-2.0	38.4	-40.4
0.875	-17.4	-22.5	-22.5	20.0	2.6	-2.5	-2.5	27.4	-29.9
1.125	-19.4	-25.2	-25.0	20.0	0.6	-5.2	-5.0	21.3	-26.3

Limit according to FCC Part 15 Subpart 15.209(a)

Frequency (MHz)	Field strength of spurious emissions		Measurement distance (meters)
	(μV/m)	dB (μV/m)	
0.009-0.490	2400/F(kHz)		300
0.490-1.705	24000/F (kHz)		30
1.705-30.0	30	29.5	30

The requirements are **FULFILLED**.

Remarks:	Measurement has been performed up to the 10 th harmonics of the fundamental frequency					
	(125 kHz) designed to be emitted by the intentional radiator (1.25 MHz).					

File No. T37170-00-00KG, page **21** of **27**

Rev. No. 1.3, 4.4.2013





5.1 Radiated emission

For test instruments and accessories used see section 6 Part SER 2.

5.1.1 Description of the test location

Test location: OATS1
Test distance: 3 metres

5.1.2 Photo documentation of the test set-up







5.1.3 Applicable standard

According to FCC Part 15B, Section 15.109 (a):

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 m shall not exceed the given limit.

5.1.4 Description of Measurement

Radiated emissions from the EUT are measured in the frequency range of 30 MHz 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. Table top equipment is placed on a 1.0 X 1.5 dB(μ V/m) non-conducting table 80 centimetres above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. The set up of the equipment under test will be in accordance to ANSI C63.4.

The resolution bandwidth during the measurement is as following:

30 MHz – 1000 MHz: RBW: 120 kHz

5.1.5 Test result

Measurement distance: 3 m

Frequency [MHz]	L: QP [dBµV]	Correct. [dB]	L: QP [dBµV/m]	Limit [dBµV/m]	Delta [dB]
33.78	3.7	13.4	17.1	40.0	-22.9
118.54	9.3	12.9	22.2	43.5	-21.3
517.43	4.8	21.9	26.7	46.0	-19.3

Limit according to FCC part, Section 15.109(a):

Frequency	Limit	Limit
(MHz)	(µV/m)	dB(μV/m)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

The requirements are FULFILLED.

Remarks: No unwanted emissions from the EuT could be measured in the relevant frequency ranges.

Only ambient noises could be detected.





5.2 Emission Bandwidth

For test instruments and accessories used see section 6 Part MB.

5.2.1 Description of the test location

Test location: AREA4

5.2.2 Photo documentation of the test set-up



5.2.3 Description of Measurement

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio of -20 dB. The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or the first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

The resolution bandwidth of measuring instrument was set to a value as shown in the following table below according to ANSI C63.4-2003.

Fundamental frequency	Minimum resolution bandwidth		
9 kHz to 30 MHz	1kHz		
30 to 1000 MHz	10 kHz		
1000 MHz to 40 GHz	100 kHz		

File No. T37170-00-00KG, page 24 of 27





Test result

Channel Frequency	20 dB Bandwidth
[MHz]	[kHz]
0.125	2.6

Remarks: For detailed test result please refer to following test protocol.

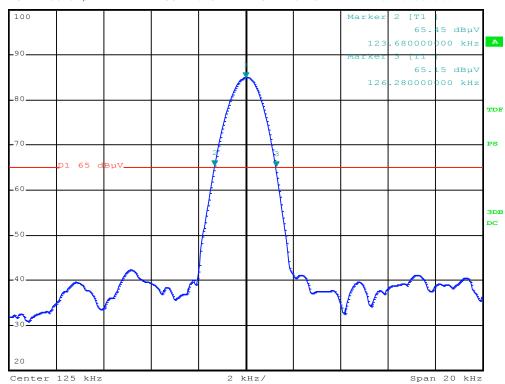
Test protocol 5.2.4





RBW 1 kHz









6 USED TEST EQUIPMENT AND ACCESSORIES

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

The calibration intervals and the calibration history will be given out on request.

	Test ID	Model Type	Kind of Equipment	Manufacturer	Equipment No.
	A 4	ESHS 30 ESH 2 - Z 5 N-4000-BNC N-1500-N ESH 3 - Z 2	EMI Test Receiver LISN RF Cable RF Cable Pulse Limiter	Rohde & Schwarz München Rohde & Schwarz München mikes-testingpartners gmbh mikes-testingpartners gmbh Rohde & Schwarz München	02-02/03-05-002 02-02/20-05-004 02-02/50-05-138 02-02/50-05-140 02-02/50-05-155
	CPR 1	FMZB 1516 ESCI S10162-B KK-EF393-21N-16 NW-2000-NB	Magnetic Field Antenna EMI Test Receiver RF Cable 33 m RF Cable 20 m RF Cable	Schwarzbeck Mess-Elektron Rohde & Schwarz Memming Huber + Suhner Huber + Suhner Huber + Suhner	01-02/24-01-018 02-02/03-05-005 02-02/50-05-031 02-02/50-05-033 02-02/50-05-113
	МВ	ESCI HFRAE 5161	EMI Test Receiver Passive Loop Antenna	Rohde & Schwarz München Schwarzbeck Mess-Elektron	02-02/03-05-005 02-02/24-11-004
	SER 1	FMZB 1516 ESCI S10162-B	Magnetic Field Antenna EMI Test Receiver RF Cable 33 m	Schwarzbeck Mess-Elektron Rohde & Schwarz Memming Huber + Suhner	01-02/24-01-018 02-02/03-05-005 02-02/50-05-031
		KK-EF393-21N-16 NW-2000-NB	RF Cable 20 m RF Cable	Huber + Suhner Huber + Suhner	02-02/50-05-033 02-02/50-05-113
	SER 2	ESVS 30 VULB 9168 S10162-B KK-EF393-21N-16 NW-2000-NB	EMI Test Receiver Trilog Broadband Antenn RF Cable 33 m RF Cable 20 m RF Cable	Rohde & Schwarz München Schwarzbeck Mess-Elektron Huber + Suhner Huber + Suhner Huber + Suhner	02-02/03-05-006 02-02/24-05-005 02-02/50-05-031 02-02/50-05-033 02-02/50-05-113





Equipment No.	Next Calib.	Last Calib.	Next Verif.	Last Verif.
A4 02-02/03-05-002 02-02/20-05-004 02-02/50-05-138 02-02/50-05-140 02-02/50-05-155	16/07/2013 06/06/2014	16/07/2012 06/06/2013	06/12/2013 05/10/2013	06/06/2013 05/04/2013
CPR 1 01-02/24-01-018 02-02/03-05-005 02-02/50-05-031 02-02/50-05-033 02-02/50-05-113	03/12/2013	03/12/2012	14/02/2014	14/02/2013
MB 02-02/03-05-005 02-02/24-05-012	03/12/2013	03/12/2012		
SER 1 01-02/24-01-018 02-02/03-05-005 02-02/50-05-031 02-02/50-05-033 02-02/50-05-113	03/12/2013	03/12/2012	14/02/2014	14/02/2013
SER 2 02-02/03-05-006 02-02/24-05-005 02-02/50-05-031 02-02/50-05-033 02-02/50-05-113	28/06/2014 11/04/2014	28/06/2013 11/04/2013	04/03/2014	04/09/2013