

Straubing, 03 April 2007

TEST-REPORT

No. 50940-060539 (Edition 4)

for

SDS 1 TM

RF Transceiver Module

Applicant: Schildknecht Industrieelektronik Systeme

Purpose of testing: To show compliance with

FCC Code of Federal Regulations, Part 15 Subpart C, Section 15.247

Note:

The test data of this report relate only to the individual item which has been tested. This report shall not be reproduced except in full extent without the written approval of the testing laboratory.



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1. Administrative Data

Test item (EUT)	
Type designation	SDS 1 TM
Serial number(s):	001
Type of equipment:	RF Transceiver Module
Parts/accessories:	
FCC-ID:	UN4-DATAEAGLEX00X
Technical data	
Frequency range	2400 - 2483.5 MHz
Operational frequencies	DSSS
Statement:	The power was set to the maximum possible
Type of modulation	FSK
Pulse frequency	N/A
Pulse width	N/A
Antenna	N/A
Power supply	3.3 V DC
Applicant: (full address)	Schildknecht Industrieelektronik Systeme Einsteinstraße 10 D-74372 Sersheim
Contract identification:	
Contact person:	Jaromir Srb, Srb Innovative Industrieelektronik GmbH
Manufacturer:	Applicant
Application details	
Receipt of EUT:	11 July 2006
Date of test:	11 July / 28 July 2006, 28 February 2007
Note:	
Responsible for testing:	Johann Roidt
Responsible for test report:	Johann Roidt



2. Identification of Test Laboratory

DETAILS OF THE TEST LABORATORY

COMPANY NAME: Senton GmbH EMI/EMC Test Center

ADDRESS: Aeussere Fruehlingsstrasse 45

D-94315 Straubing

Germany

LABORATORY ACCREDITATION: DAR-Registration No. DAT-P-171/94-02

FCC TEST SITE LISTING 90926

INDUSTRY CANADA TEST SITE

REGISTRATION

IC 3050

NAME FOR CONTACT PURPOSES: Mr. Johann Roidt

TELEPHONE: (+49) (0)9421 5522-0 FAX: (+49) (0)9421 5522-99

PERSONNEL INVOLVED IN THIS TEST REPORT

LABORATORY MANAGER:

Mr. Johann Roidt

RESPONSIBLE FOR TESTING: Mr. Johann Roidt

RESPONSIBLE FOR TEST REPORT: Mr. Johann Roidt

SUMMARY OF TEST RESULTS

The tested sample complies with the requirements set forth in the Code of Regulations Part 15 Subpart C, Section 15.247 of the Federal Communication Commission (FCC.



3. Operation Mode of EUT

Transmitter operating continuously,

full tests were performed on lowest, middle and highest RF channel:

Low channel: 2413 MHzMiddle channel: 2440 MHzHigh channel: 2461 MHz



4. Configuration

Configuration of the EUT

A full test setup was supplied by the applicant. The EUT was controlled by test software on a notebook PC, connected via RS 232 interface.

Cables connected to the EUT

Not applicable

Peripheral devices connected to the EUT

Not applicable



5. Measuring Methods

5.1. Maximum Transmitter Power

5.1.1. Conducted Maximum Transmitter Power

Rules and Specifications:	Section 15.247 (b)
Guide:	ANSI C63.4:2003

Measurement Procedure:

A power meter with peak power sensor is connected to the output of the transmitter power amplifier (conducted measurement) via dummy load while EUT was operating in transmit mode using the assigned frequency.

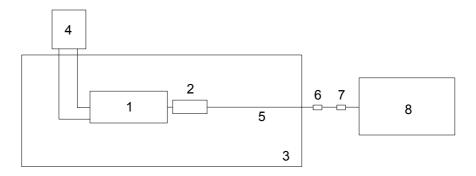


Figure 1: Measurement setup for testing on antenna connector

Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
08	Power Meter	NRVS	836856/015	Rohde & Schwarz
09	Peak Power Sensor	NRV-Z31	836299/012	Rohde & Schwarz
18	Attenuator 20 dB	4776-20	9503	Narda
19	Attenuator 10 dB	4776-10	9412	Narda

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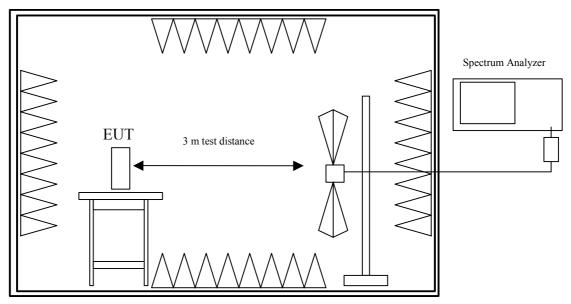
5.2. Radiated Emissions 30 MHz - 1 GHz

Rules and Specifications:	Section 15.247
Guide:	ANSI C63.4:2003

Measurement Procedure:

Radiated emissions are measured over the frequency range from 30 MHz to 1 GHz.

Measurements were made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution bandwidth set to 100 kHz. All tests were performed at a test-distance of 3 meters. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing



Fully anechoic chamber

Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
113	Preamplifier	CPA9231A	3393	Schaffner
141	Trilog broadband antenna	VULB 9163	9163-188	Schwarzbeck
003	Fully anechoic room	No. 2	1452	Albatross Projects



5.3. Radiated Emission > 1 GHz

Rules and Specifications:	Section 15.247
Guide:	ANSI C63.4:2003

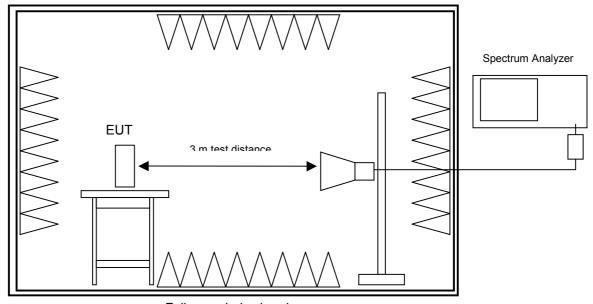
Measurement Procedure:

Radiated emissions are measured in the frequency range 1 GHz to 25 GHz. Resolution and video bandwidth of the spectrum analyzer are set to 1 MHz. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing. Additional measurements are performed at critical frequencies with reduced span.

EUT is rotated all around and receiving antenna is raised and lowered to find the maximum levels of emission. The cables and equipment are placed and moved within the range of position likely to find their maximum emissions.

All tests are performed in a fully-anechoic chamber with a test-distance of 3 meters.

If required preamplifiers are used for the whole frequency range. Special care is taken to avoid overload in transmit mode (using appropriate attenuators and filters if necessary).



Fully anechoic chamber

Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03/-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800- 32-LN	847743	Miteq
115	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
003	Fully anechoic room	No. 2	1452	Albatross Projects

FCC-ID: Test Report No. 50940-060539 (Edition 4)



5.4. Conducted AC Powerline Emission

Rules and Specifications:	Section 15.247
Guide:	ANSI C63.4:2003

Measurement Procedure:

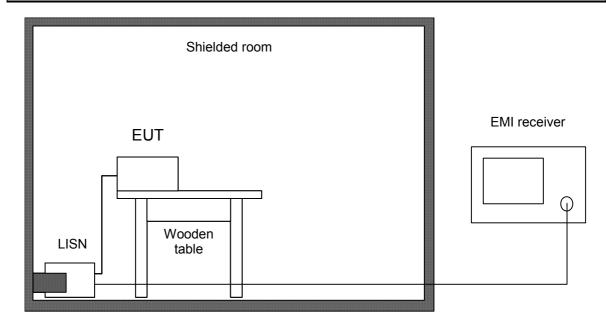
Rules and specifications: CFR 47 Part 15, section 15.207

Guide: ANSI C63.4 / CISPR 22

Conducted emission tests in the frequency range 150 kHz to 30 MHz are performed using Line Impedance Stabilization Networks (LISNs). To simplify testing with quasi-peak and average detector the following procedure is used:

First the whole spectrum of emission caused by the equipment under test (EUT) is recorded with detector set to peak using CISPR bandwidth of 10 kHz. After that all emission levels having less margin than 10 dB to or exceeding the average limit are retested with detector set to quasi-peak. If average limit is kept with quasi-peak levels no additional scan with average detector is necessary. In cases of emission levels between quasi-peak and average limit an additional scan with detector set to average is performed.

According to ANSI C63.4, section 13.1.3.1, testing of intentional radiators with detachable antenna shall be performed using a suitable dummy load connected to the antenna output terminals. Otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. Testing with dummy load may be necessary to distinguish (unintentional) conducted emissions on the supply lines from (intentional) emissions radiated by the antenna and coupling directly to supply lines and/or LISN. Usage of dummy load has to be stated in the appropriate test record(s) and notes should be added to clarify the test setup.





Test instruments used:

Used	Туре	Model	Serial No. or ID	Manufacturer
\boxtimes	EMI receiver	ESHS 10	860043/016	Rohde & Schwarz
\boxtimes	LISN	ESH3-Z5	862770/021	Rohde & Schwarz
	LISN	ESH3-Z5	830952/025	Rohde & Schwarz
	Artificial mains network	ESH 2-Z5	842966/004	Rohde & Schwarz
	Shielded room	No. 1	1451	Albatross Projects
	Shielded room	No. 4	3FD-100 544	Euroshield

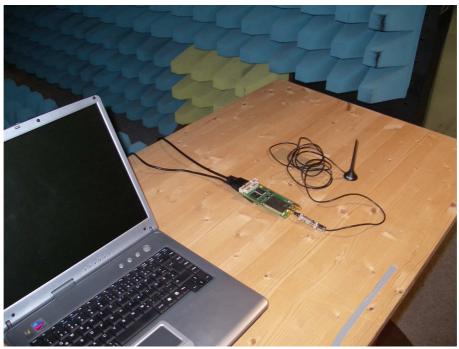


6.	Photographs Taken During Testing



Test setup for radiated emission measurement 30 MHz – 25 GHz (fully anechoic room)







7. List of Measurements

FCC Part 15 Subpart C					
Section(s):	Test	Page(s)	Result		
	Transmitter:				
15.205	Restricted Bands	15	Pass		
15.247 (a) (a2)	Channel Bandwidth	18	Pass		
15.247 (b) (3)	Maximum Peak Output Power	20	Pass		
15.247 (d)	Spurious Emissions - conducted	21	Pass		
15.247 (d) 15.209	Spurious Emissions - radiated	28	Pass		
15.247 (e)	Power Spectral Density	29	Pass		
15.203	Antenna Requirement	31	Pass		
2.1093	RF Exposure Requirement	32	Pass		
15.207	Conducted AC Powerline Emissions	33	Pass		
	Receiver				
15.111	Spurious Emissions on Antenna Port		N/A		
15.109	Radiated Emissions	35	Pass		



Restricted Band & Band Edge Compliance

Rules and Specifications:

Guide:

Requirement:

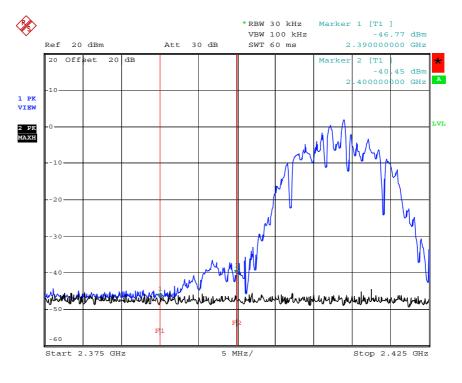
Except as shown in paragraph (d) of section 15.205, only spurious emissions are permitted in any of the frequency bands listed.

Test Site: Radio Lab.

Distance: Conducted & Radiated Measurement

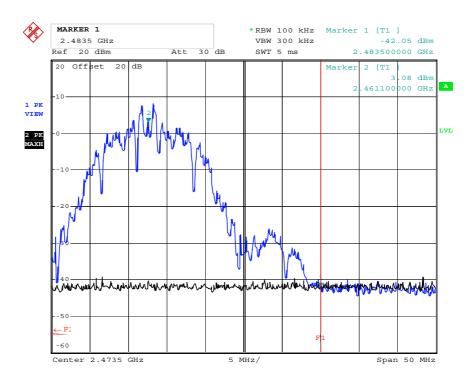
Date of Test: 28 February 2007

Restricted Band (MHz)	RF Channel	Result	
2310 - 2390	Channel 1 (2413 MHz)	Pass	
24835 - 2500	Channel 48 (2461 MHz)	Pass	



Date: 28.FEB.2007 14:34:29



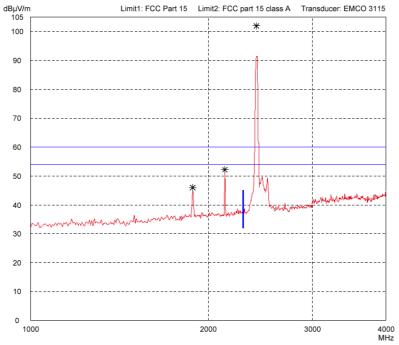


Date: 28.FEB.2007 14:40:04

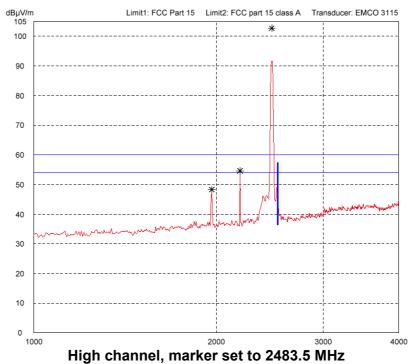
Test Site:	Open Area Test Site (< 1GHz), Fully anechoic room (>1 GHz)		
Distance:	Radiated Measurement		
Date of Test:	02 March 2007		

Frequency (MHz)	Antenna Polarisatio n	Detector	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2413.2	Vertical	Peak	68.51	33.41	101.92		
2461.1	Vertical	Peak	69.00	33.55	102.55		
2390.0	Vertical	Peak	5.5	33.75	39.25	54.00	14.75
2483.5	Vertical	Peak	15.9	33.80	49.70	54.00	4.3





Low channel, marker set to 2390 MHz





Channel Bandwidth

Rules and Specifications:

Guide:

ANSI C63.4:2003

Limit:

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Site: Radio Lab.

Distance: Conducted Measurement

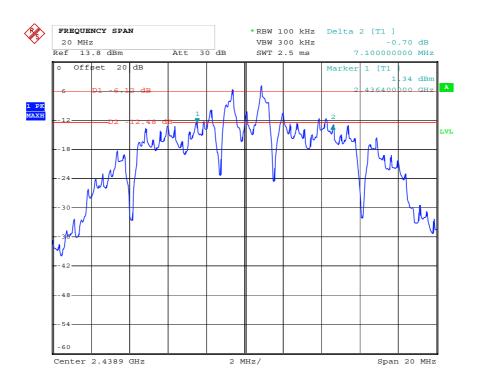
Date of Test: 28 February 2007

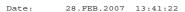
Frequency	Channel Bandwidth in kHz	Standard	Result
Low (2413.2 MHz)	7920	>500 kHz	Pass
Middle (2439.1 MHz)	7100	>500 kHz	Pass
High (2461.5 MHz)	6880	>500 kHz	Pass



Date: 28.FEB.2007 13:39:00









Date: 28.FEB.2007 14:44:21



Carrier Power Measurement

Rules and Specifications:

Guide:

Limit:

15.247 (b) (2)

ANSI C63.4:2003

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

Test Site: Radio Lab.

Distance: Conducted Measurement

Date of Test: 28 February 2007

Frequency	Output Power in dBm	Output Power in W	Standard	Result
Low (2413.2 MHz)	17.83	0.0606	≤1.00W	Pass
Middle (2.439.1 MHz)	17.93	0.0620	≤1.00W	Pass
High (2461.0 MHz)	17.70	0.0588	≤1.00W	Pass



Spurious Emissions

Rules and Specifications:

Guide:

ANSI C63.4:2003

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Test Site: Radio Lab.

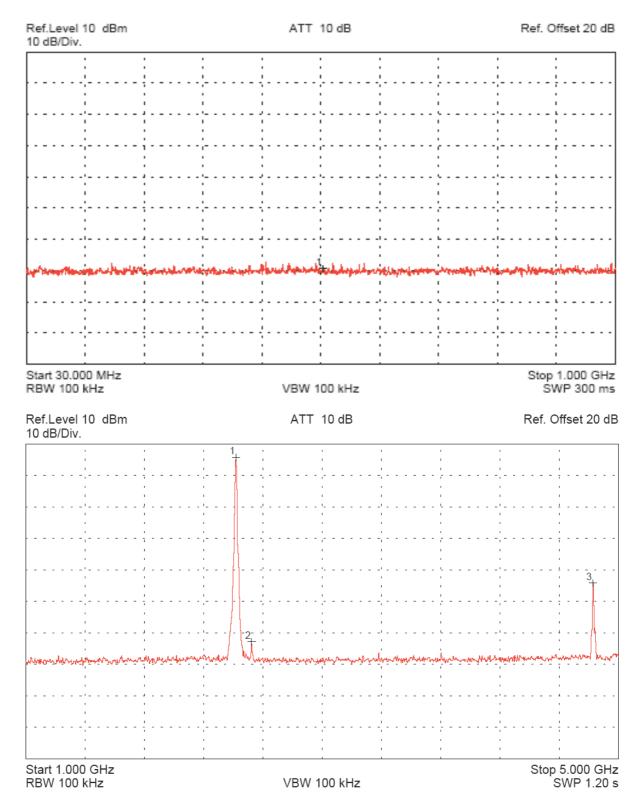
Distance: Conducted Measurement

Date of Test: 11 July 2006

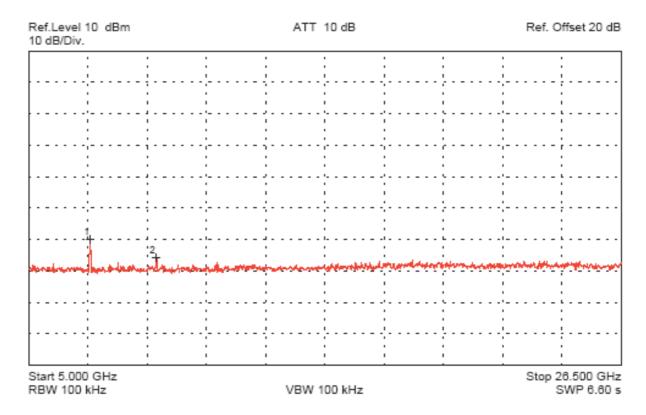
Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)	Result
2413.2	17.83	30		Fundamental
2439.1	17.93	30		Fundamental
2461.0	17.70	30		Fundamental
4880.0	-33.85	-4.83	29.02	Pass
7317.0	-33.82	-4.83	28.99	Pass
9753.0	-48.78	-4.83	43.95	Pass



Conducted spurious emissions - low channel

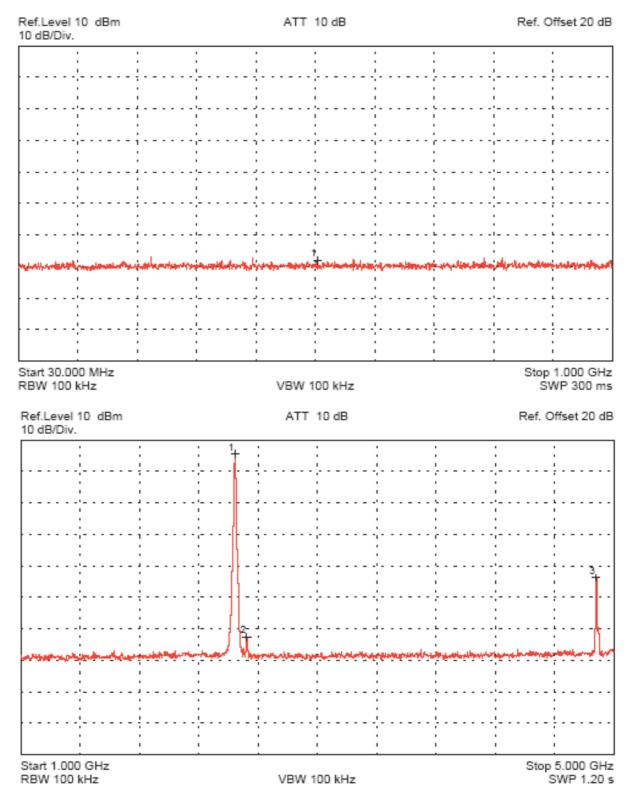




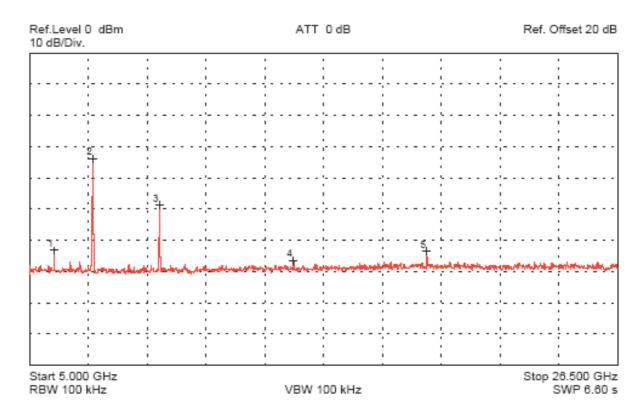




Conducted spurious emissions - middle channel

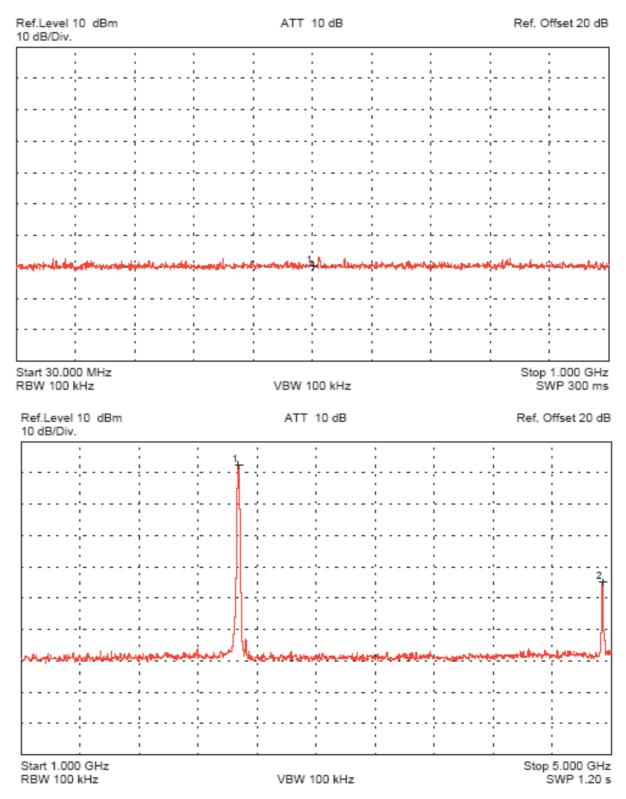




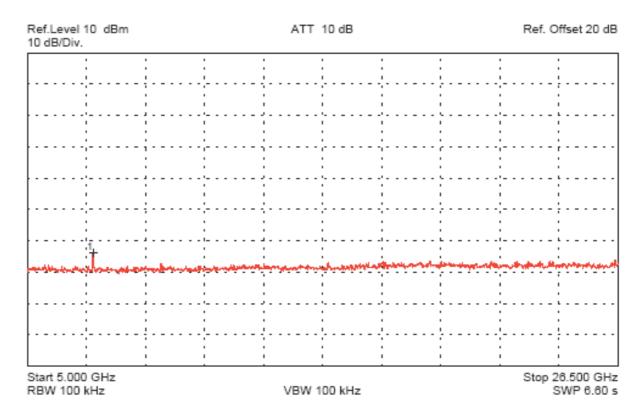




Conducted spurious emissions - high channel









Spurious Emissions

Rules and Specifications: 15.247 (c)

Guide: ANSI C63.4:2003

Limit: In any 100 kHz bandwidth outside the frequency band in which the

spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

Test Site: Open Area Test Site (< 1GHz), Fully anechoic room (>1 GHz)

Distance: Radiated Measurement

Date of Test: 28 July 2006

Frequency (MHz)	Antenna Polarisation	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2413.2	Vertical	68.51	33.41	101.92		
2439.1	Vertical	68.63	33.48	102.11		
2468.1	Vertical	69.10	33.55	102.65		
2134.0	Vertical	18,51	32.64	51.16	54.0	2.84
2158.0	Vertical	18.75	32.71	51.46	54.0	2.54
2188.0	Vertical	20.74	32.80	53.54	54.0	0.46
4318.0	Vertical	11.64	33.81	45.54	54.0	8.46
8636.0	Vertical	1.43	43.45	44.88	54.0	9.12



Power Spectral Density

Rules and Specifications:

Guide:

ANSI C63.4:2003

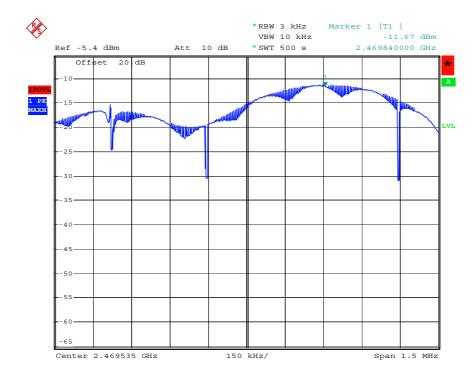
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Site: Radio Lab.

Distance: Conducted Measurement

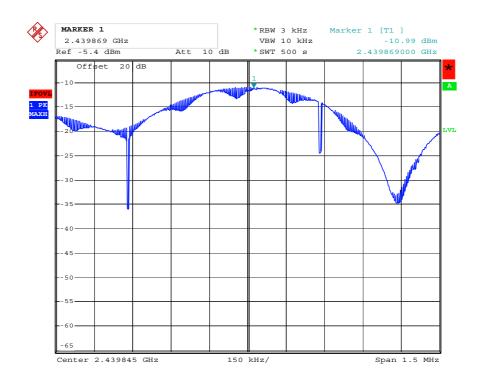
Date of Test: 28 February 2007

Frequency	Power Spectral Density in dBm/3 kHz	Standard	Result
Low (2413.2 MHz)	-11.67	< 8	Pass
Middle (2439.1 MHz)	-10.99	< 8	Pass
High (2461.1 MHz)	-11.55	< 8	Pass

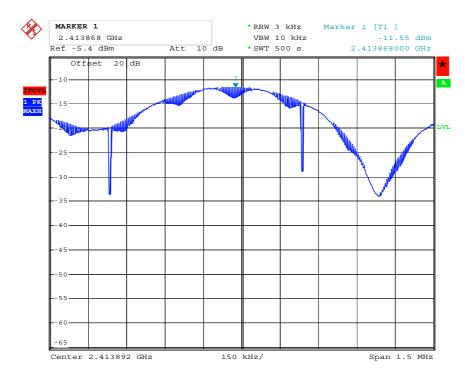


Date: 28.FEB.2007 13:57:47





Date: 28.FEB.2007 14:15:41



Date: 28.FEB.2007 14:29:59



Antenna connector requirement

Rules and Specifications:	15.203
Guide:	
Limit:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.
Test Result	Pass (Reverse SMA antenna connectors)
	The UUT employs reverse SMA connectors.



RF Exposure

Rules and Specifications:	15.247 (b) (4)
Guide:	OET Bulletin 65, Edition 97-01
Limit:	According to §15.247(b)(4) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissive Exposure (MPE) General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2	Averaging Time (minute)
1500 - 100 000 MHz	1	1	1.0 = 0.61 mw/cm2 @ 915 MHz	30

f = frequency in MHz

MPE Prediction of MPE according to equation from page 19 of OET Bulletin 65, Edition 97-01

$S = PG/4\pi R^2$

Where: S = power density

P = power input to antenna

G = power gain of the antenna relativ to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum output power at antenna input terminal: 17.93 dBm = 0.062 W

Prediction distance: 20 cm

Antenna gain: 2.0 dBi = 1.58 (numerical gain)

Power density at 20 cm: 0.019 mW/cm2

Test Result:	Pass	
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Conducted Powerline Emission Measurement 150 kHz to 30 MHz

Rules and specifications:	CFR 47 Part 15, section 15.207				
Guide:	ANSI C63.4 / CISPR 22				
Limit:	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				
Measurement procedure:	Conducted AC Powerline Emission				

Comment:
Date of test:
11 July 2006
Test site:
Shielded room, cabin no. 4

Test Result: Test passed

Tested on: Linecord (L1)

Frequency	Detector	Reading	Correction	Final	Limit	Margin
		Value	Factor	Value		
(MHz)		(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)
15.640	Quasi-Peak	44.0	0.0	44.0	60.0	16.0
17.645	Quasi-Peak	44.8	0.0	44.8	60.0	15.2
20.345	Quasi-Peak	42.8	0.0	42.8	60.0	17.2



|--|

Frequency	Detector	Reading	Correction	Final	Limit	Margin
		Value	Factor	Value		
(MHz)		(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)
0.350	Average	32.6	0.0	32.6	49.0	16.4
0.520	Average	27.4	0.0	27.4	46.0	18.6
10.270	Average	32.7	0.0	32.7	50.0	17.3
12.795	Average	41.0	0.0	41.0	50.0	9.0
12.800	Quasi-Peak	41.5	0.0	41.5	60.0	18.5
15.580	Average	47.8	0.0	47.8	50.0	2.2
15.670	Quasi-Peak	48.9	0.0	48.9	60.0	11.1
17.065	Quasi-Peak	49.9	0.0	49.9	60.0	10.1
17.320	Average	48.9	0.0	48.9	50.0	1.1
20.280	Average	45.8	0.0	45.8	50.0	4.2
20.455	Quasi-Peak	47.1	0.0	47.1	60.0	12.9
24.370	Average	34.3	0.0	34.3	50.0	15.7

Sample calculation of final values:

Final Value ($dB\mu V$) = Reading Value ($dB\mu V$) + Correction Factor (dB)



Spurious Radiation Measurement

Rules and Specifications:	15.109,				
Guide:	ANSI C63.4:2003				
Limit:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated at least 50 dB below the level of the fundamental or to the general radiated emission limits below, whichever is the lesser attenuation				
	Frequency of Emission Field Strength (MHz) (microvolts/meter)				
	30 - 88	100			
	88 - 216	150			
	216 - 960	200			
	Above 960	500			

Tested Frequency:	RX Mode, middle RF Channel
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

Frequency	Detector	Antenna	Analyzer	Correction	Field	Limit	Margin (dB)
(MHz)		Polarization	Reading	Factor	Strength	(dBµV/m)	
			(dBµV)	(dB/m)	(dBµV/m)		
2158.000	Peak	Vertical	18.46	32.71	51.17	54.00	2.8
4318.000	Peak	Vertical	13.49	33.81	47.30	54.00	6.7
8636.000	Peak	Vertical	1.67	43.45	45.12	54.00	8.9

Sample calculation of erp values:

Field Strength $(dB\mu V/m)$ = Analyzer Reading $(dB\mu V)$ + Correction Factor (dB/m)



8. Referenced Regulations

All tests were performed with reference to the following regulations and standards:

CFR 47 Part 2	Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communication Commission (FCC)	October 10, 2004
CFR 47 Part 15	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)	September 19, 2005
ANSI C63.4	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	December 11, 2003 (published on January 30, 2004)



Charts taken during testing	

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

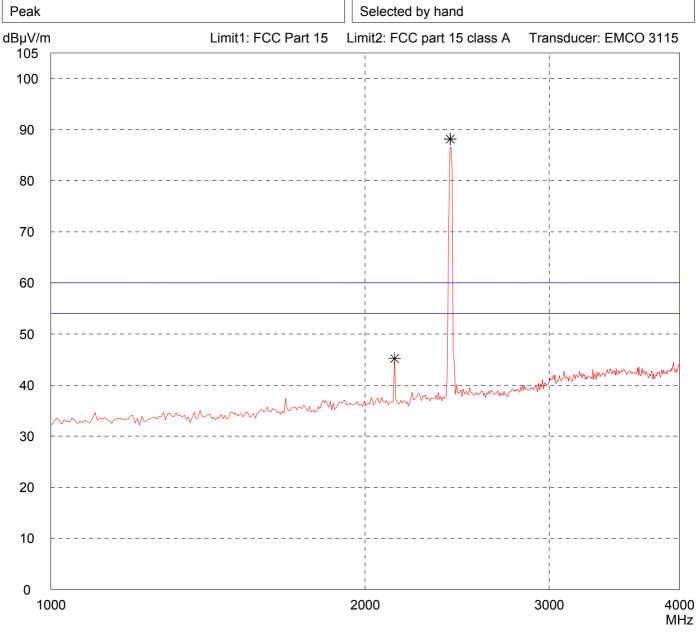
Model:						Comm	ient:						
SDS 1 TM							Mode						
Serial no.:						- Low	est Chan	nel					
Applicant: Schildknec	ht Indus	trieelektı	onik										
Test site: Fully anech	oic roor	n, cabin	no. 2										
Tested on: Test distan Horizontal													
Date of test: 07/11/2006	i		Operator J. Roid										
Test performe automatica			File nam default										
Detector: Peak							values: B Margin		5	50 Subra	nges		
dBµV/m 60							Limit1: F	CC Part	15	Transdu	cer: VI	JLB 9°	163
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0	40	F0	70	1	20	0.	00	200	400	F00	704		4000
30	40	50	70	10	JU	_	00	300	400	500	700	, 	1000 MHz
Result: Prescan						Project 5094	t file: 0-60539						
						⊥							

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SDS 1 TM				Comment: - TX Mode			
Serial no.:				- Lowest Cha	annel		
Applicant: Schildknecht I	ndustrieelekt	ronik					
Test site: Fully anechoic	room, cabin	no. 2					
Tested on: Test distance vertical Polariz							
Date of test: 07/11/2006		Operator: J. Roidt					
Test performed: automatically		File name: default.e	mi				
Detector: Peak				List of values: 10 dB Margi	n	50 Subranges	
dBμV/m 60				Limit1	: FCC Part 15	Transducer: VU	LB 9163
55	-	- L - 					
50							+
45							
40			1 1				
35				·			
30							<u> </u> _
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15		+	M	H WY VIII WIN			
10				·			
5				·			
0 30	40 50	70	100	200	300 400	500 700	1000 MHz
Result: Prescan				Project file: 50940-60539	9		IVI∏∠

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: SDS 1 TM		Comment: - TX mode
Serial no.:		- Lowest Channel
Applicant: Schildknecht Industri	ieelektronik	
Test site: Fully anechoic room,	cabin no. 2	
Tested on: Test distance 3 metri Horizontal Polarization		
Date of test: 07/28/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:



Result:
Prescan

Project file:
50940-60539

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: SDS 1 TM		- 1 1	Comment: - TX mode	
Serial no.:			- Lowest Channel	
Applicant: Schildknecht Industrie	eelektronik			
Test site: Fully anechoic room,	cabin no. 2			
Tested on: Test distance 3 metre Vertical Polarization	es			
Date of test: 07/28/2006	Operator: M. Steindl			
Test performed: automatically	File name: default.emi			
Detector: Peak			List of values: Selected by hand	
dBμV/m 105	Limit1: FCC Part 15	Li	imit2: FCC part 15 class A	Transducer: EMCO 3115
100			*	
00			0	
90				
80				
70				
60				
50		 *	*	
40		H Thur		w.May.h.M. walam. M. mya.M. wal
30	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
20			 	
10			 	
0 1000			2000	3000 4000
				MHz
Result: Prescan			Project file: 50940-60539	

			15 (EMCO 3160)		
Model: SDS 1 TM Serial no.:			Comment: - TX mode		
Applicant: Schildknecht Indus	strieelektronik		- Lowest Channel		
Test site: Fully anechoic roo					
Tested on: Test distance 3 me Horizontal Polariza					
Date of test: 07/28/2006	Operator: M. Steindl				
Test performed: automatically	File name: default.emi				
Detector: Peak			List of values: Selected by hand		
dBµV/m 80	Limit1: FCC Part	15 I	Limit2: FCC part 15 class A Transducer: EMCO 3160		
75					
70					
65					
55					
50					
45					
40	www.w.w.w.w.w.w.w.w.w.w.w.w.w.w.w.w.w.	፞፞ቚ፟፟ ^ፚ ጜጚፙ			
35					

 MHz Project file: Result: 50940-60539 Limit kept

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15

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0

3950

5000

5850

		st 3.95 GHz - 5.85 GHz 15 (EMCO 3160)		
Model: SDS 1		Comment: - TX mode - Lowest Channel		
Applicar Schild	nt: Iknecht Industrieelektronik			
Test site	e: anechoic room, cabin no. 2			
	on: distance 3 metres al Polarization			
Date of 07/28/	·			
	rformed: File name: natically default.emi			
Detecto Peak	or:	List of values: Selected by hand		
dBµV/m	m Limit1: FCC Part 15	Limit2: FCC part 15 class A Transducer: EMCO 3160		
75				
70	<u> </u>			
65				
60				
55				
50				
45	*	washin-alm shakenin-shakenin-shakenin-shakenin		
40 35	my my mother than the think me and the	Mark V - Whi =		
30				
25				

 MHz Project file: Result: 50940-60539 Limit kept

20

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10

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5000

5850

Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Result: Presca	an			ect file: 40-60539		
	350 60	000	70	000	8000	8200 MHz
0						
5						
10		 				
20 15		T				
25 20						
30		+				
35		r		7		
40						
45	M		~~~~\ ~~~	ystrochown amerika a yntalena para paraylli !	; FWWWW~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NZ-ZYM
50					 	 -
55						
60		 		 		
65						
70		 		 		
75		 		 	 	
dBµV/m 80	1	Limit1: FCC Part 15	Limit2	: FCC part 15 class A Transc	ducer: EMCO 3	160
Detecto Peak		Limita: FCC Port 15	Sele	of values: ected by hand	lugar: FMCO 2	160
Test per autom	formed: atically	File name: default.emi				
	ntal Pola					
Tested		room, cabin no. 2				
Test site	e:	ndustrieelektronik				
Applicar			- LO	west Chamler		
Serial n				(mode west Channel		
Model: SDS 1	TM			ment:		

Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

		_				
Model: SDS 1 TM			ment: (mode			
Serial no.:			west Channel			
Applicant: Schildknecht Ir	ndustrieelektronik					
Test site: Fully anechoic	room, cabin no. 2					
Tested on: Test distance 3 Vertical Polariz						
Date of test: 07/28/2006	Operator: M. Steindl					
Test performed: automatically	File name: default.emi					
Detector: Peak			of values: ected by hand			
dBμV/m 80	Limit1: FCC Part 15	Limit2	: FCC part 15 class A	Transducer: EM	ICO 3	160
75	, 		 		-	
70	 		 	. – – – – – – – – –	 - -	
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60			 			
55	 		 			
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35	 		 		· - 	
30	 		 		 - 	
25	<u> </u> 		<u> </u>		- 	
20			' 		· - 	
15	L		4		-l 	
10	- - - - - - - - -		<u>:</u>		- 	
5			1		 	
0 <u>5850</u> 60	000	70	000	3	3000	8200 MHz
Result: Prescan			ect file: 40-60539			

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1	1 TM		Comment:
Serial n			- TX mode
			- Lowest Channel
Applica	_{nt:} knecht Industrieelektr	onik	
Test site	e:		
	anechoic room, cabin	no. 2	
	on: listance 1 meter ontal Polarization		
Date of 07/28/		Operator: M. Steindl	
	rformed:	File name:	
autom	atically	default.emi	
Detecto Peak	r:		List of values: Selected by hand
dBµV/n 80	n		Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
75		†	
70			
65			
60		 +	
55			
50	* -~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-AI-M-M-M-MAAA-M	many many markang maring many many many many many many many many
45		 +	
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0	200	1	10000 12400
0,	200		MHz
Result:	an		Project file: 50940-60539

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1	TM		Comment: - TX mode			
Serial no.: Applicant: Schildknecht Industrieelektronik			- Lowest Channel			
Test site Fully a	e: inechoic room, cabin r	no. 2				
	on: istance 1 meter al Polarization					
Date of t 07/28/2		Operator: M. Steindl				
Test per automa	formed: atically	File name: default.emi				
Detector Peak	r:		List of values: Selected by hand			
dBμV/m 80	1		Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160			
75		 				
70		-				
65		<u> </u>				
60		 +				
55	*	 	*			
50	FATAMENTAL TAMAKAN TAM	hadlatathafillarraraafkaarmari kiriphyssäänääkky vallaasi	nghtondagnormanopenseriestestestestestestestestestestestesteste			
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0	200		0000	•		
	200	1	0000 1240 MH			
Result: Presca	an		Project file: 50940-60539			

Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Model:		Comment:
SDS 1	ТМ	- TX mode
Serial no	0.:	- Lowest Channel
Applicar	nt·	
	knecht Industrieelektronik	- RBW = 1 MHz VBW = 100 kHz
Test site	e: anechoic room, cabin no. 2	
Tested o		
	istance 1 meter ontal Polarization	
Date of		
07/28/		
Test per autom	formed: File name: atically default.emi	
Detecto Peak		List of values: Selected by hand
dBµV/m	1	Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
80		
75		
70		
65		
60		
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50	haranin minimanin	
45		
40		
35		
30		
25		
20		
15		
10		
5		
0		
	400	18000 MHz
Result:		Project file:
Presca	an	50940-60539

Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1 TM	Comment: - TX mode
Serial no.:	- Lowest Channel
Applicant: Schildknecht Industrieelektronik	- RBW = 1 MHz VBW = 100 kHz
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: Operator: 07/28/2006 M. Steindl	
Test performed: File name: automatically default.emi	
Detector: Peak	List of values: Selected by hand
dBμV/m 80	Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
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70	
65	
60	Marshall war of the Marshall and Marshall and Marshall and Marshall and the Marshall and the Marshall and Mar
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50 manuscally and have have have have been some and the same and the s	
45	
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5	
0 L 12400	18000 MHz
Result: Prescan	Project file: 50940-60539

Spurious emissions according to FCC Rules

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10 dB/Div.	·		· · ·	· · ·					· · · · · · · · · · · · · · · · · · ·		
Ref.Level {	37 dBµV			ATT	0 dB						
Model: SDS 1 TM Serial No.: Prototyp Applicant: Schildknecht					Mode: - Radiated Mesurement - Horizontal Polarisation - TX Mode - Lowest Channel						

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SDS 1 TM				Comment:	Э			
Serial no.:				- Middle C	Channel			
Applicant: Schildknecht Industr	rieelektroi	nik						
Test site: Fully anechoic room	ı, cabin no	o. 2						
Tested on: Test distance 3 met Horizontal Polarizati	res							
Date of test: 07/11/2006	(Operator: J. Roidt						
Test performed: automatically		File name: default.en	าเ่					
Detector: Peak				List of values		50 Subra	inges	
dBµV/m				Lim	nit1: FCC Part 1	5 Transdu	cer: VULB 9	163
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10	 -				 			
5								
0 30 40	50	70	100	200	300 4	100 500	700	100
Result: Prescan		-		Project file: 50940-60				100 MH

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:									Comn	nent:									
SDS 1	TM									Mode	!								
Serial no).:								- Mic	ldle Cl	hannel								
Applican Schildk	t: knecht Ir	ndustri	eelektr	onik															
Test site Fully a	: nechoic	room,	cabin	no. 2															
	_{n:} stance 3 Il Polariz		es																
Date of to 07/11/2				Oper J. R															
Test perf				File r															
Detector Peak	:									values B Mar			5	50 S	Subra	nges			
dBµV/m 60										Limi	it1: FC0	C Part 15	5	Tra	nsdu	cer: \	/ULE	3 91	63
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45		 	 		 	 	 -	. – – – – – –		+	 	 	 	 				+	
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35					 - 	 - - 	 			 	 - 	 	 	 				 	
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0	_									<u> </u>	-		 -	 					
3	0 4	40	50	70	0		10	0	2	00	30	00 4	00	50	00	70	00		1000 MHz
Result: Presca	ın								Project 5094	t file: 10-605	539								
L																			

Radiated Emission Test 1 GHz - 4 GHz

	acc. to FCC Par	t 15	5 (EMCO 3	115)		
Model: SDS 1 TM			comment:			
Serial no.:		-	TX mode			
		_ -	Middle Channe	el		
Applicant: Schildknecht Industrieelektro	nik					
Test site: Fully anechoic room, cabin no	o. 2					
Tested on:						
Test distance 3 metres Horizontal Polarization						
	Operator: M. Steindl					
	File name: default.emi					
Detector: Peak			ist of values: Selected by han	ıd		
dBµV/m	Limit1: FCC Part 15		nit2: FCC part 1		Transducer: EMCO 3115	5
105]
100		_I				
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90			7	-		-
		, , , ,				
80		i			j	-
		1 1 1			 	
70						-
		1 1				
60		1			 	1
						+
50		i	*			-

MHz Project file: Result: 50940-60539 Prescan

2000

3000

4000

40

30

20

10

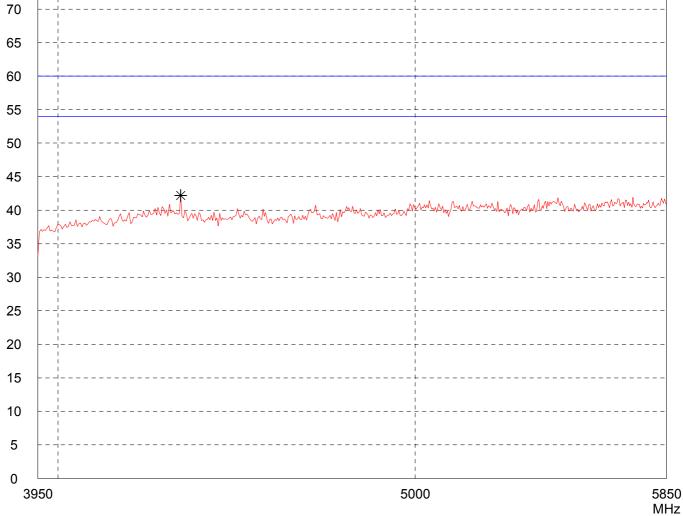
0

1000

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: SDS 1 T	M		omment: TX mode	
Serial no.:		- 1	Middle Channel	
	echt Industrieelektronik			
Test site: Fully ane	echoic room, cabin no. 2			
	ance 3 metres Polarization			
Date of test 07/28/20	t: Operator:			
Test perfor				
Detector: Peak			st of values: elected by hand	
dBμV/m 105 ┌─	Limit1: FCC Part 15	Limi	it2: FCC part 15 class A	Transducer: EMCO 3115
100		· -	*	
		 	n	
90		· L		
80		 - - 		
70		 		
60		 		
50		- -	*	
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30	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
20		 		
10		 		
0		 		
1000	0	200	00	3000 4000 MHz
Result: Prescan			oject file: 0940-60539	

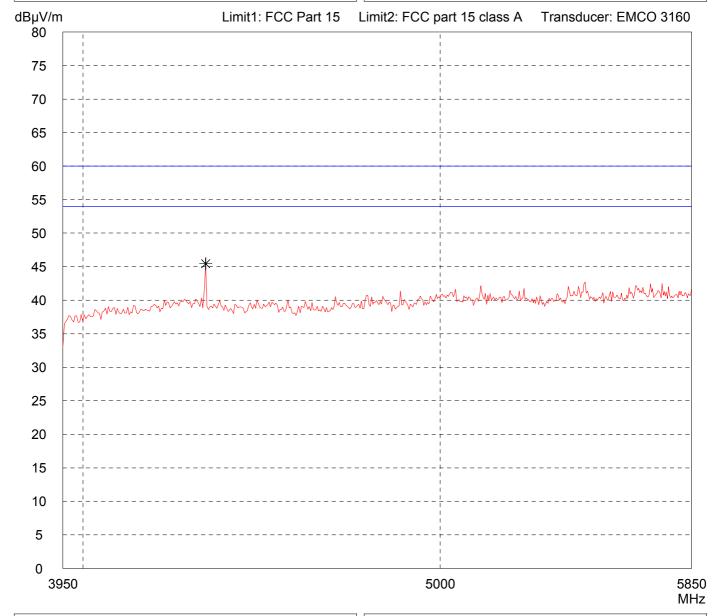
	art 15 (EMCO 3160)
Model: SDS 1 TM	Comment: - TX mode
Serial no.:	- Middle Channel
Applicant: Schildknecht Industrieelektronik	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: Operator: O7/28/2006 M. Steindl	
Test performed: File name: automatically default.emi	
Detector: Peak	List of values: Selected by hand
dBµV/m Limit1: FCC Part 15	Limit2: FCC part 15 class A Transducer: EMCO 3160
70	
65	
60	
55	
50	



Project file: Result: 50940-60539 Prescan

Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model:		Comment:
SDS 1 TM		- TX mode
Serial no.:		Middle Observati
		- Middle Channel
Applicant:		
Schildknecht Industrie	eelektronik	
Test site:		
Fully anechoic room,	cabin no. 2	
Tested on:		
Test distance 3 metre	es	
Vertical Polarization		
Date of test:	Operator:	
07/28/2006	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		List of values:
Peak		Selected by hand



Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Result: Presca	an			ect file: 40-60539		
	350 60	00	70	000	8000	8200 MHz
0					 	
5				 		
10		 				
15		 		 	 	
20		 		 		
25				 		
30		 		 		
35		 		 	 	
40				 		
45	M.M.M	i tunnammunin marin	-1/w4wy/\	mh-man-mharlandermhand	Mary Wy	~~~
50				 		
55						
60				; ; ;	! !	
65		 		 		
70		 		: 		
75		i 				
dBµV/m 80	1	Limit1: FCC Part 15 l	_imit2	: FCC part 15 class A Transducer	: EMCO 3	160
Detecto Peak	r:			of values: ected by hand		
Test per autom	formed: atically	File name: default.emi				
Date of 07/28/		Operator: M. Steindl				
	on: istance 3 ontal Pola					
	nechoic	room, cabin no. 2				
	knecht Ir	ndustrieelektronik				
Serial no	0.:		- Mi	ddle Channel		
Model: SDS 1	TM			ment: K mode		

Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Result: Prescan	Project file: 50940-60539	
5850 6000		MHz
0		
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50		
55		-
60		
65	-	
70		. =
75		
80		
dBμV/m Limit1: FCC Part 15	Limit2: FCC part 15 class A Transducer: EMCO 316	30
Detector: Peak	List of values: Selected by hand	
Test performed: File name: automatically default.emi		
07/28/2006 M. Steindl		
Test distance 3 metres Vertical Polarization Date of test: Operator:		
Fully anechoic room, cabin no. 2 Tested on:		
Schildknecht Industrieelektronik Test site:		
Applicant:		
Serial no.:	- TX mode - Middle Channel	
Model: SDS 1 TM	Comment:	

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1	TM		Comment: - TX mode
Serial no).:		- Middle Channel
Applicant: Schildknecht Industrieelektronik			
Test site Fully a	: nechoic room, cabin n	o. 2	
	on: istance 1 meter ntal Polarization		
Date of t		Operator: M. Steindl	
Test per automa		File name: default.emi	
Detector Peak	:		List of values: Selected by hand
dBµV/m 80	1		Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
75		; - 	
70		 - -	
65			
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15		 - -	
10		 	
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0 82	200	10	000 12400 MHz
Result:	an		Project file: 50940-60539

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1	TM		Comment: - TX mode	
Serial no	o.:		- Middle Channel	
Applicar Schildl	nt: knecht Industrieelektro	nik		
Test site	e: inechoic room, cabin no	o. 2		
	on: istance 1 meter al Polarization			
Date of t 07/28/2		Operator: M. Steindl		
Test per automa		File name: default.emi		
Detector Peak	r:		List of values: 10 dB Margin	50 Subranges
dBµV/m 80	1		Limit1: FCC Part 15 (1 m)	Transducer: EMCO 3160
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70			 	
65		 	 	
60		 	 	
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35		- 		
30		- +		
25		- 	- -	
20				
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5				
0				
	200	10	0000	12400 MHz
Result: Presca	an		Project file: 50940-60539	

Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1	ТМ	Comment: - TX mode
Serial no	D.:	- Middle Channel
Applicar Schild	^{nt:} knecht Industrieelektronik	- RBW = 1 MHz VBW = 100 kHz
Test site	e: nechoic room, cabin no. 2	
Tested of	on:	
	istance 1 meter ntal Polarization	
Date of 07/28/	·	
Test per autom	formed: File name: atically default.emi	
Detector Peak	:	List of values: Selected by hand
dBµV/m 80	1	Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
75		
70		
65		
60	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	many many many many many many many many
55		
50	haver-warranger	
45		
40		
35		
30		
25		
20		
15		
10		
5		
0		
12	400	18000 MHz
Result:		Project file: 50940-60539
Presca	AII	303 4 0-00333

Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1	I TM	Comment: - TX mode
Serial n	0.:	- Middle Channel
Applicant: Schildknecht Industrieelektronik		- RBW = 1 MHz VBW = 100 kHz
Test site	e: anechoic room, cabin no. 2	
Tested	on:	
	listance 1 meter al Polarization	
Date of 07/28/	·	
1	rformed: File name: atically default.emi	
Detecto Peak	r:	List of values: Selected by hand
dBμV/n 80	n	Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
75		
70		
65		
60	~~~~~~ A	amahaman mayaran Manahaman mayaran may
55	mylamaman.	
50	North [CN/N ZATION AND NO. 17.	
45		
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35		
30		
25		
20		
15		
10		
5		
0	400	18000 MHz
0		

Spurious emissions according to FCC Rules

Ref.Level 8 10 dB/Div.	87 dBµV			ATT	0 dB				
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Start 18.00 RBW 1 MF				VBW	Stop 26.500 GHz 1 MHz SWP 40 ms				
					arker List				
		N	0.1 2	20.455556	GHz	23.65 dB _l	VL		
Tested by:					Project-No).:			
Johann R	Roidt								
27 July 20	006								

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SDS 1 TM		Comment: - TX Mode						
Serial no.:		- Highest Channel						
Applicant: Schildknecht Industr	ieelektronik							
Test site: Fully anechoic room	, cabin no. 2							
Tested on: Test distance 3 metr Horizontal Polarization	res							
Date of test:	Operator:							
07/11/2006 Test performed: automatically	J. Roidt File name: default.emi							
Detector: Peak		List of values: 10 dB Margin 50 Subranges						
dBμV/m		Limit1: FCC Part 15 Transducer: VULB 9163						
60								
55								
50								
45								
40								
35								
30								
25								
20								
15								
10								
5								
0 30 40	50 70 100	200 300 400 500 700 100						
		MH						
Result:		Project file: 50940-60539						

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SDS 1 TM		Comment: - TX Mode					
Serial no.:		- Highest Channel					
Applicant: Schildknecht Industrieele	ktronik						
Test site: Fully anechoic room, cab	in no. 2						
Tested on:							
Test distance 3 metres Vertical Polarization							
Date of test: 07/11/2006	Operator: J. Roidt						
Test performed: automatically	File name: default.emi						
Detector: Peak		List of values: 10 dB Margin 50 Subranges					
dΒμV/m		Limit1: FCC Part 15 Transducer: VULB 9163					
60							
55							
50							
45							
40							
35							
30							
25							
20							
15							
10							
5							
0 20 40 50	70 400	200 200 400 500 700 400					
30 40 50	70 100	200 300 400 500 700 100 MH					
Result: Prescan		Project file: 50940-60539					

Radiated Emission Test 1 GHz - 4 GHz

	acc. to FCC Par				
Model:	T1.4		mment:		
SDS 1		_	TX mode		
Senaino		- F	Highest Chann	iel	
Applican Schildk	nt: knecht Industrieelektronik				
Test site Fully a	: nechoic room, cabin no. 2				
Tested o					
	stance 3 metres ntal Polarization				
Date of to 07/28/2	•				
Test perf					
Detector Peak	:		t of values: elected by han	d	
dBµV/m	Limit1: FCC Part 15	Limit	t2: FCC part 1	5 class A T	ransducer: EMCO 3115
100					1
] 			1 1
90				*	
80					
70					
60					
					1
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MHz Project file: Result: Limit kept - Carrier excluded 50940-60539

2000

3000

4000

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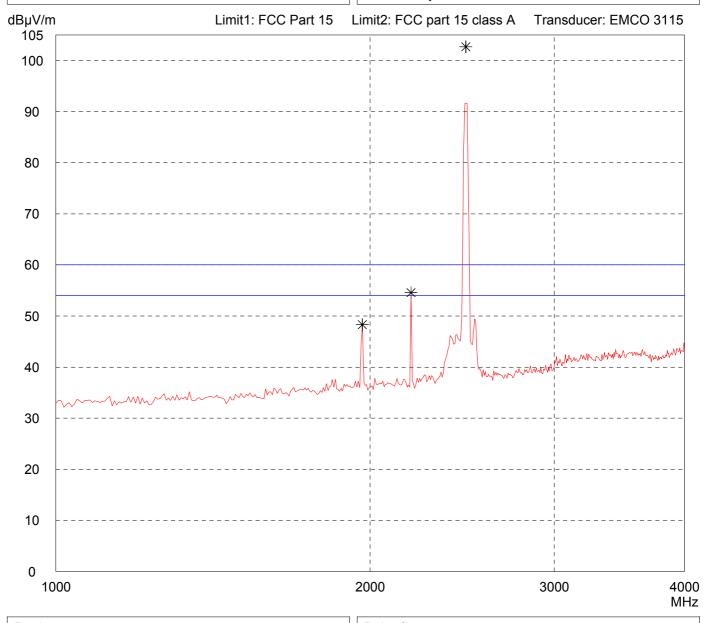
10

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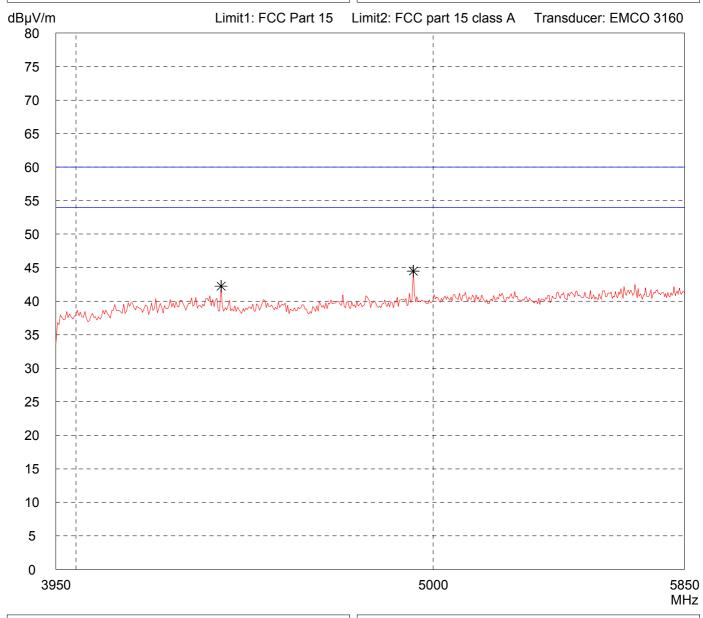
Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: SDS 1 TM Serial no.:		Comment: - TX mode - Highest Channel
Applicant: Schildknecht Industric Test site: Fully anechoic room,		
Tested on: Test distance 3 metre Vertical Polarization		
Date of test: 07/28/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector: Peak		List of values: Selected by hand



Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model:		Comment:
SDS 1 TM		- TX mode
Serial no.:		I limb and Observation
		- Highest Channel
Applicant:		
Schildknecht Industri	eelektronik	
Test site:		
Fully anechoic room,	cabin no. 2	
Tested on:		
Test distance 3 metre	es	
Vertical Polarization		
Date of test:	Operator:	
07/28/2006	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		List of values:
Peak		Selected by hand



Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

			_	,
Model: SDS 1	I TM			Comment: - TX mode
Serial n				
				- Highest Channel
-	knecht Industrieele	ektronik		
	Test site: Fully anechoic room, cabin no. 2			
Tested		UIII IIU. Z		
Test d	listance 3 metres ontal Polarization			
Date of		Operator:		
07/28/		M. Steindl		
1	rformed: atically	File name: default.emi		
Detecto			_ 	List of values:
Peak				Selected by hand
dBµV/n	n	Limit1: FCC Part 15	L	Limit2: FCC part 15 class A Transducer: EMCO 3160
80				
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	950			5000 5850 MHz
Result:	kept			Project file: 50940-60539

Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Result: Presca	an			oject file: 0940-60539			
	850 6000			7000	8000	8200 MHz	
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60				 	 		
65							
70							
75				·			
80					 		
Peak dBµV/n	n	Limit1: FCC Part 15	1	elected by hand it2: FCC part 15 class A	Transducer: EMCO 3	3160	
Detecto	r:			st of values:			
1	rformed: natically	File name: default.emi					
Date of 07/28/	/2006	Operator: M. Steindl					
Horizo	listance 3 met ontal Polarizat	ion					
Fully a	anechoic roon	n, cabin no. 2					
Test site	Schildknecht Industrieelektronik Test site:						
Applica		ot a labele of the					
Serial n	0.:		†	Highest Channel			
Model: SDS 1	I TM			omment: TX mode			

Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

		_				
Model: SDS 1 TM			ment: (mode			
Serial no.:			ghest Channel			
Applicant: Schildknecht Ir	ndustrieelektronik					
Test site: Fully anechoic	room, cabin no. 2					
Tested on: Test distance 3 Vertical Polariz						
Date of test: 07/28/2006	Operator: M. Steindl					
Test performed: automatically	File name: default.emi					
Detector: Peak			of values: ected by hand			
dBμV/m 80	Limit1: FCC Part 15	Limit2	: FCC part 15 class A	Transducer: E	MCO 3	160
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0 5850 60	000	70	000		8000	8200 MHz
Result: Prescan			ect file: 40-60539			1911 12

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1 TM		Comment: - TX mode		
Serial no.:		- Highest Channel		
Applicant: Schildknecht Industrieelektronik				
Test site: Fully anechoic room, cabin n	o. 2			
Tested on: Test distance 1 meter Horizontal Polarization				
	Operator: M. Steindl			
1	File name: default.emi			
Detector: Peak		List of values: Selected by hand		
dBμV/m 80		Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160		
75				
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8200	10	0000 12400 MHz		
Result: Prescan		Project file: 50940-60539		

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Result: Presca	an		Project file: 50940-60539
	200	10	0000 12400 MHz
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70		 	
75		+	
dBµV/n 80	n		Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
Detecto Peak	r:		List of values: Selected by hand
Test pe	rformed: F	ile name: default.emi	
	al Polarization	Operator: M. Steindl	
Tested	anechoic room, cabin no on: listance 1 meter). 2	
Test site			
Applica			
Serial n			- TX mode - Highest Channel
Model: SDS 1	TM		Comment:

Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1	I TM		Comment: - TX mode
Serial n	0.:		- Highest Channel
Applicant:			- RBW = 1 MHz
Test site	knecht Industrieelektronik		VBW = 100 kHz
	anechoic room, cabin no. 2		
	^{on:} listance 1 meter ontal Polarization		
Date of 07/28/	•	ator: Steindl	
Test pe	rformed: File r	name: ault.emi	
Detecto Peak	r:		List of values: Selected by hand
dBµV/n 80	n		Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
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0			
	2400		1800 MHz
Result:	an		Project file: 50940-60539

Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 (EMCO 3160)

Applicant: Schildknecht Industrieelektronik -RBW = 1 MHz Schildknecht Industrieelektronik -RBW = 1 MHz Schildknecht Industrieelektronik -RBW = 1 MHz SW = 100 kHz SW = 1	Model: SDS 1 TM Serial no.:		Comment: - TX mode				
VEW = 100 kHz	Seriai no)	- Highest Channel				
Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: O7/28/2006 M. Steindl Test performed: automatically default.emi Detector: Peak BBµV/m Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160 15 10 15 10 15 10 15 10 15 10 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18							
Tested on:							
Vertical Polarization Date of test:	Tested o	on:					
O7/28/2006 M. Steindl Test performed: File name: automatically default.emi Detector: Peak List of values: Selected by hand S	Vertica	al Polarization					
automatically default.emi		•					
Peak							
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 12400 180 MH		.					
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 NH		1	Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160				
70							
65 60 55 50 45 40 35 30 25 20 15 10 5 10 5 12400 180 MH	75						
60 55 50 45 40 35 30 25 20 15 10 5 0 12400 180 MH	70						
50	65						
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35	45						
30	40						
25	35						
20	30						
15 10 5 0 12400 180 MH	25						
10	20						
5 0 12400 180 MH	15						
0 12400 180 MF Result: Project file:	10						
12400 180 MH Result: Project file:	5						
Result: Project file:		400					
	12	400	18000 MHz				
Prescan 50940-60539		an	Project file: 50940-60539				

Spurious emissions according to FCC Rules

Ref.Level 87 dBµV 10 dB/Div.	ATT	0 dB				
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Start 18.000 GHz RBW 1 MHz	VBW	1 MHz	1	1	Stop 2	26.500 GHz SWP 40 ms
	Multi Ma	rker List				
No. 1	20.455556	GHz	24.61 dBp	V		

Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model: SDS 1 TM	A	lode: C power via	a SITOP 24 V Pow	er Supply
Serial no.:	N	leasured on	AC input of power	supply
Applicant: Schildknecht Industrieelektronik				
Test site: Shielded room, cabin no. 4				
Tested on: Linecord				
Date of test: Operator: 07/11/2006 J. Roidt				
Test performed: File name: automatically				
Detector: Peak / Final Results: QP		inal results: 0 dB Margir	n 25	Subranges
dBµV		Li	imit1: FCC B / QP	Limit2: FCC B / AV
100				
90				
80				
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Result: Limit kept	Pr 50	roject file: 0940-06053	9-2 F	Page of Page

Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Mode	el: S 1 TM			Mode: AC power v	via SITOP '	24 V Power	Supply	
Seria				Measured of	on AC inpu	t of power s	supply	
Appli	cant: ildknecht Industrieelekt	ronik						
Test	site:							
Teste	elded room, cabin no. 4							
	cord 115 V, N							
	of test: 1/2006	Operator: J. Roidt						
Test	performed: omatically	File name:						
Detec	ctor:			Final results:				
	k / Final Results: QP			20 dB Marg	gin Limit1: FC		ubranges Limit2: FCC	D / A\/
dΒμ\ 100		1 1 1 1	1		Lillint 1. FC	C B / QP	LIIIIII.Z. FCC	D/AV
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								1711 1

Project file:

50940-060539-2

Page

of

Pages

Result:

Limit kept

Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model: SDS 1 TM	Mode: AC power	via SITOP 24 V Po	ower Supply	
Serial no.:	ivieasured	on AC input of pov	ver supply	
Applicant: Schildknecht Industrieelektronik				
Test site: Shielded room, cabin no. 4				
Tested on: Linecord AC 115 V, N				
Date of test: Operator: 07/11/2006 J. Roidt				
Test performed: File name: automatically				
Detector: Average / Final Results: AV	Final results: 20 dB Marg	gin 2	25 Subranges	
dBμV		Limit1: FCC B / C	P Limit2: F	CC B / AV
	1 1			
90	 · · · · · · · · · · · · · · · · · · ·			
80				1
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20				
10				
0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1
0.15 1			10	30 MHz
Result: Limit kept	Project file: 50940-060	539-2	Page o	f Pages

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: SDS 1 TM		Comment: - RX mode
Serial no.:		- Middle Channel
Applicant: Schildknecht Industrieele	aktronik	Whate Sharifer
Test site:		
Fully anechoic room, cal	oin no. 2	
Test distance 3 metres Horizontal Polarization		
Date of test: 07/28/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:
Peak		10 dB Margin 50 Subranges
dBμV/m 60		Limit1: FCC Part 15 Transducer: VULB 9163
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0 30 40 50	70 100	200 300 400 500 700 100
JU 40 30	70 100	200 300 400 500 700 100 MH

50940-60539

Result: Prescan

Radiated Emission Test 30 MHz - 1 GHz

	a	cc. to FCC P	art 15 (Fu	ılly Ar	nechoic (Chambe	er)		
Model: SDS 1				Comme					
Serial no	0.:			- Mido	dle Channel				
Applican	nt: knecht Industrieelekti	onik							
Test site	e: Inechoic room, cabin	no. 2							
Tested o									
	al Polarization	Operator:							
07/28/	2006	M. Steindl							
Test per automa	formed: atically	File name: default.emi							
Detector Peak	r:			List of v	values: 3 Margin		50 Subra	nges	
dBµV/m	1				Limit1: FC	C Part 15	Transdu	cer: VULB	9163
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Result: Prescan

Project file: 50940-60539 MHz

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: SDS 1	ТМ	Comment: - RX mode		
Serial no	o.:	- Middle Channel		
Applican Schildk	^{nt:} knecht Industrieelektronik			
	nechoic room, cabin no. 2			
	on: istance 3 metres ntal Polarization			
Date of t 07/28/2	2006 M. Steindl			
Test per automa				
Detector Peak	r:	List of values: Selected by hand		
dBµV/m 80	Limit1: FCC Pa	rt 15 Limit2: FCC part 15 o	class A Transducer: EMCO 3115	1
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25				
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10		·		
5 0				
	000	2000		000 Hz
Result: Limit k	ept	Project file: 50940-60539		

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Result: Limit k	ept		Project file: 50940-60539		
10	000		2000	3000	4000 MHz
0			 	 	
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20			 	·	
25			 	 	
30				·	
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50			*	 	
55			 	 	
60					
65			 	·	
70				· 	
75			 	·	
dBµV/m 80	1	Limit1: FCC Part 15	Limit2: FCC part 1	5 class A Trans	ducer: EMCO 3115
Peak		1: "4 F00 B 145	List of values: Selected by har		- FN00 0445
automa	atically	default.emi			
07/28/2 Test per	2006	M. Steindl File name:			
Test di	istance 3 metres al Polarization	Operator:			
	anechoic room, cabir	n no. 2			
Applican Schildl Test site	knecht Industrieelek	tronik	-		
Serial no			- Middle Channe	el	
Model: SDS 1			Comment: - RX mode		
			1		

Radiated Emission Test 3 95 GHz - 5 85 GHz

		15 (EMCO 3160)				
Model: SDS 1 TM Serial no.:		Comment: - RX mode				
Applicant: Schildknecht Industrieelektronik		- Middle Channel				
Test site: Fully anechoic room, cabin no. 2						
Tested on: Test distance 3 metres Horizontal Polarization						
Date of test: Operat 07/28/2006 M. St						
Test performed: File na automatically defau	me: Ilt.emi					
Detector: Peak		List of values: Selected by hand				
dBμV/m I	_imit1: FCC Part 15	Limit2: FCC part 15 class A Transducer: EMCO 3160				
75						
70						
65						
60						
55						
45						
40		mant from home and from the form the first the				
35						
30						
25						
20						
15						

Result: Prescan

5

0

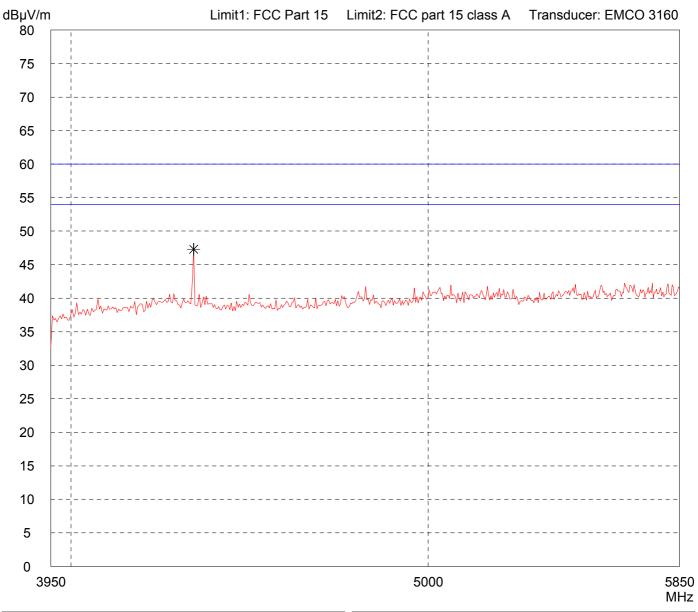
3950

Project file: 50940-60539 5850 MHz

5000

Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model:		Comment:
SDS 1 TM Serial no.:		- RX mode - Middle Channel
Applicant: Schildknecht Industrieelektronik		
Test site: Fully anechoic room,	cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/28/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector: Peak		List of values: Selected by hand



Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Result: Limit kept			roject file: 0940-60539		
5850	6000		7000	8000	8200 MHz
0					
5	 			 !	
10	; ! !		; !	 	
15				 	
20	-		 		
25			 	 	
30	-		-		
35			 		
40				 !	
45	with the state of	~_>√~~\	out to make the many that the same of the	M24M42M	Λ Υ ΑΛ
50	<u> </u> 		<u>i</u>		
55					
60				 	
65	<u>i</u>		<u>i</u>	 	
70				 	
75	 			 	
dBμV/m 80	Limit1: FCC Part 15	Limi	it2: FCC part 15 class A Transducer:	EMICO 3	760
Detector: Peak	Liwith FOO Dark 45	Se	ist of values: selected by hand	- NAOO O	400
automatica					
07/28/2006 Test performe	M. Steindl				
Test distan	nce 3 metres Polarization Operator:				
	hoic room, cabin no. 2				
Applicant: Schildknec Test site:	cht Industrieelektronik				
Serial no.:		- N	Middle Channel		
Model: SDS 1 TM			omment: RX mode		

Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Result: Limit k	cept			Project file: 50940-60539			
	350 600	0		7000	80	000	8200 MHz
0						 	
5						 - 	
10				; 		- 	
15						 - 	
20						 - 	
25	<u> </u> -					 - - 	
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35				 		- - - 	
40						 - 	
45		wyww.www.www.www.www.www.www.www.www.ww	ā.Ā	James - Land Morter and	LAVAN MARAMANA	<u> </u>	142
50						<u> </u>	
55							
60	1					1	
65						-	
70						 - 	
75						- - - 	
dBµV/m 80		Limit1: FCC Part 15	∟ II	mit2: FCC part 15 class A	Transducer: EM0		100
Peak		Limita, ECC Dort 15		List of values: Selected by hand	Transducery EM	20.2	160
autom	atically	default.emi					
07/28/ Test per	2006	M. Steindl File name:					
Test d	istance 3 al Polariza						
Fully a	anechoic r	oom, cabin no. 2	-				
-	knecht Inc	lustrieelektronik					
Serial no	0.:			- Middle Channel			
Model: SDS 1	ТМ			Comment: - RX mode			

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Result: Presca	n		Project file: 50940-60539
82	00	1	0000 12400 MHz
0		 	
5		¦	
10		<u> </u> 	-
15		i +	·
20		; ;	
25			
30		ļ	; ; ;
35		 	
40		i 	i
45	 	¦ 	
50	Mizzalemanor	A Lawrence May war war for a fall	white was the state of the stat
55		¦ 	
60		i 	i
65		¦ 	
70			·
75		 	
dBµV/m 80			Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
Detector: Peak			List of values: Selected by hand
Test perf	ormed: F	ile name: default.emi	
		Operator: M. Steindl	
Tested o). 2	
Test site:			
Applicant			- Middle Channel
Serial no			- RX mode
Model: SDS 1	TM		Comment:

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Result: Prescan	1		Project file: 50940-60539
820	00	1	0000 1240 MHz
0			
5 -		 	
10		1 1 1	
15		! #	
20 -		, 	
25		 	
30 -		; +	
35		, , ,	
40		 	
45 -		 	
50	war-waar-af		Managaraman Managaran Mana
55	*	; <u>+</u>	
60		 	
65		 	·
70		 	
75		 	
dBµV/m 80 ┌		ı	Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
Detector: Peak			List of values: Selected by hand
Test perfo	rmed: F	ile name: lefault.emi	
	Polarization st: C	Dperator: 1. Steindl	
Tested on		·· -	
Test site:	echoic room, cabin no		
Applicant: Schildkr	necht Industrieelektror	nik	
Serial no.:			- Middle Channel
Model: SDS 1 T	ГМ		Comment: - RX mode

Radiated Emission Test 12.4 GHz - 13 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1	TM		Comment: - RX mode	
Serial no).:		- Middle Channel	
Applican Schildl	t: knecht Industrieelektronik		- RBW = 1 MHz VBW = 100 kHz	
Test site Fully a	: nechoic room, cabin no. 2	2		
	on: stance 1 meter ntal Polarization			
Date of test: Operator: 07/28/2006 M. Steindl				
Test per		name: ault.emi		
Detector Peak	:		List of values: Selected by hand	
dBµV/m			Limit1: FCC Part 15 (1 m)	Transducer: EMCO 3160
75				
70				
65				
60				
55				
50	phyllogen and the second secon	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	maran Marana Mar	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
45				
40				
35				
30				
25				
20				
15				
10				
5				
0				
	400			13000 MHz
Result: Presca	ın		Project file: 50940-60539	

Radiated Emission Test 12.4 GHz - 13 GHz acc. to FCC Part 15 (EMCO 3160)

Model: SDS 1	TM		Comment: - RX mode
Serial n	0.:		- Middle Channel
Applicant: Schildknecht Industrieelektronik			- RBW = 1 MHz VBW = 100 kHz
	Test site:		VBVV = 100 kH2
	anechoic room, cabin no. 2		
	on: istance 1 meter al Polarization		
Date of 07/28/	•		
	formed: File name:		
autom	atically default.emi		
Detecto Peak	r:		List of values: Selected by hand
dBµV/n 80	1		Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
75			
70			
65			
60			
55			*
50	A.AMMALAMANAMANAMANAMANAMANAMANAMANAMANAMA	man Andrew	ENMARTE PARAMENTALANANANANANANANANANANANANANANANANANAN
45			
40			
35			
30			
25			
20			
15			
10			
5			
0			
	400		13000 MHz
Result: Limit k	kept		Project file: 50940-60539