

TEST REPORT
of the accredited test laboratory

TÜV Nr.:M/EMV-04/130

about
the following EMC - test/- research

Division Medical
Technology/
Communication
Technology/ EMC

Testing Body for
Communication
Technology/ EMC

Prüfzentrum Wien
A-1230 Wien
Deutschstraße 10

Tel: +43 1 / 610 91
Fax: Ext. 6505
Mail: office@tuev.or.at

Applicant: SKIDATA AG
Untersbergstraße 40
A-5083 Gartenau - St. Leonhard

Product: EXIT GR MON 400-US

Serial Number: ---

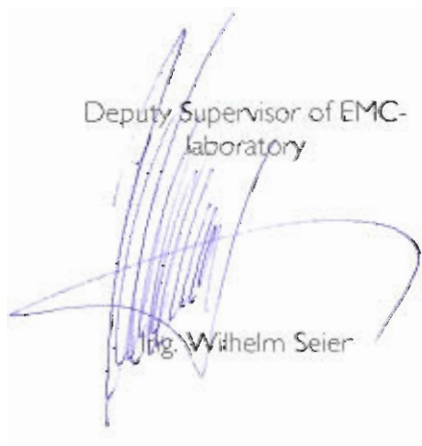
Standard: 47 CFR Ch. I Part 15
RSS-210 Issue 5

Accredited Testing
Laboratory,
Inspection Body,
Certification Body,
Calibration Body

Notified Body 0408
Canada: IC4413

TÜV Österreich
Test laboratory for EMC

Deputy Supervisor of EMC-
laboratory




Ing. Wilhelm Seier



29.03.2004

Copy Nbr.: 1/1

Checked by



Ing. Michael Emminger

A publication of this test report is only permitted literally.
Copying or reproduction of partial sections needs a written permission of TÜV Österreich.

The results of this test report only refer to the provided equipment.

Contents

| | Designation | page |
|----------|---|-------|
| 1. | Applicant | 3 |
| 2. | Description of EUT | 4 |
| 3. | Standards / Final result | 5 |
| 4. | Test results | |
| 4.1. | Conducted emission (15.109): (6.6.) | 6-7 |
| 4.2. | Radiated emission (15.209): (6.2.1.) | 8-9 |
| 4.3. | Operation within the band 13,110 – 14,010 MHz 15.225 (a+b+c+d+e); 6.2.2. (e) | 10-11 |
| Appendix | Designation | pages |
| 1 | Test equipment used | 3 |
| 2 | Photodocumentation | 27 |
| 3 | Measurement diagrams | 4 |

1. Applicant

| | |
|----------------|---|
| Company | SKIDATA AG |
| Department | |
| Address | A-5083 Gartenau – St. Leonhard; Untersbergstraße 40 |
| Contact person | Mr. Sonderegger |

EUT received on 11.02.2004

Tests were performed on 11.02. – 13.02.2004

2. Description of EUT

| | |
|----------------|--|
| EUT | EXIT GR MON 400-US |
| Serial Number | --- |
| Manufacturer | SKIDATA AG A-5083 Gartenau – St. Leonhard; Untersbergstraße 40 |
| Description | SKIDATA AG provided the following configuration for the measurements: Serial production |
| Operating mode | The measurements were carried out at the following running states: normal use |

3. Standards / Final result

| Name | Title | Deviation | Result |
|------------------------------------|---|-----------|--------|
| 47 CFR Ch. 1 Part 15 | Radio Frequency Devices | none | PASS |
| RSS-210 Issue 5 | Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands) | none | PASS |
| PASS EUT passed FAIL EUT failed | | | |

4. Test results

4.1. Conducted emission

Limits according to 15.109 and 6.6.

| Frequency range | Limit | |
|--|---|---|
| | Quasi Peak | Average |
| 0,150 - 0,5 MHz | 66 - 56 dB μ V decreasing with the logarithm of frequency | 56 - 46 dB μ V decreasing with the logarithm of frequency |
| 0,5 - 5 MHz | 56 dB μ V | 46 dB μ V |
| 5 - 30 MHz | 60 dB μ V | 50 dB μ V |
| Remark: Quasi Peak and Average limits must be both met | | |

Measuring apparatus parameters:

| Parameter | Preview measurement | Final measurement | Parameter | Preview measurement | Final measurement |
|-----------------|------------------------|----------------------|----------------|------------------------|----------------------|
| Start frequency | 150 kHz | 150 kHz | Detector | MP/AV | QP/AV |
| Stop frequency | 30 MHz | 30 MHz | Measuring time | 10 ms | 1 s |
| Stepsize | 5 kHz | 5 kHz | RF-attenuation | 0dB | 0dB |
| IF- Bandwidth | 9 kHz | 9 kHz | Preamplifier | 0 dB | 0 dB |

| Operating mode | Measuring result |
|----------------|-----------------------|
| Normal use | Measurement diagram 1 |

Test result:

4. 1.1.) Measurement with QP-Detector

| Frequency MHz | Level dB μ V | Limit DB μ V | Margin dB | Exceed-Mark | Phase | PE |
|---------------|------------------|------------------|-----------|-------------|-------|-----|
| 13,56 | 63,3 | 60 | -3,3 | ** | L | GND |
| 13,57 | 50,9 | 60 | 9,1 | | L | GND |

** This part of emission is covered by 15.225 (a) and 6.2.2.(e)

4. 1.2.) Measurement with AV-Detector

| Frequency MHz | Level dB μ V | Limit dB μ V | Margin dB | Exceed-Mark | Phase | PE |
|---------------|------------------|------------------|-----------|-------------|-------|-----|
| 5,175 | 41,9 | 50 | 8,1 | | N | GND |
| 6,54 | 44,0 | 50 | 6,0 | | L | GND |
| 13,56 | 48,4 | 50 | 1,6 | | L | GND |

4.2. Radiated emission

Limits according to 15.209 and 6.2.1.

| Frequency range | Detector Quasi Peak | |
|-------------------|--|----------------------|
| | Limit | Measurement distance |
| 0,009 – 0,490 MHz | 2400 μ V / f(kHz) | 300 m |
| 0,490 – 1,705 MHz | 24000 μ V / f(kHz) | 30 m |
| 1,705 - 30 MHz | 30 | 30 m |
| 30 – 88 MHz | 100 | 3 m |
| 88 – 216 MHz | 150 | 3 m |
| 216 – 960 MHz | 200 | 3 m |
| Above 960 MHz | 500 | 3 m |
| Remark: | The Limit was increased for a constant measurement distance of 3m with a factor of 40 dB per Decade. | |

| Operating mode | Measuring result |
|---|-------------------------|
| continuous and modulated carrier at 122,9 kHz and 13,56 MHz | Measurement diagram 2-4 |

Test result:

4. 2.1.) Measurement in the frequency range 9 kHz to 30 MHz

Due to the large margin to the limit, no final measurement was performed.

4. 2.2.) Measurement in the frequency range 30 MHz to 1000 MHz

| Frequency MHz | Level dB μ V/m | Limit dB μ V/m | Margin dB | Exceed-Mark | Height cm | Azimuth deg | Polarization |
|---------------|--------------------|--------------------|-----------|-------------|-----------|-------------|--------------|
| 31,35 | 37,4 | 40 | 2,6 | | 100 | 0 | Vertical |
| 35,0 | 35,7 | 40 | 4,3 | | 101 | 0 | Vertical |
| 38,7 | 35,2 | 40 | 4,8 | | 129 | 185 | Vertical |
| 42,4 | 35,6 | 40 | 4,4 | | 100 | 122 | Vertical |
| 46,1 | 37,0 | 40 | 3,0 | | 101 | 134 | Vertical |
| 53,45 | 35,3 | 40 | 4,7 | | 100 | 251 | Vertical |
| 226,7 | 33,5 | 46 | 6,5 | | 129 | 257 | Horizontal |
| 412,9 | 42,0 | 46 | 4 | | 225 | 1 | Horizontal |
| 453,85 | 17,9 | 46 | 28,1 | | 120 | 76 | Horizontal |
| 484,55 | 20,0 | 46 | 26 | | 161 | 22 | Vertical |
| 537,35 | 20,3 | 46 | 25,7 | | 209 | 219 | Horizontal |
| 923,75 | 26,6 | 46 | 19,4 | | 273 | 84 | Vertical |

4.3. 15.225 Operation within the band 13,110 – 14,010 MHz
RSS-210 6.2.2.(e) 13,553 – 13,567 MHz

15.225 (a):

The field strength of any emissions within this band shall not exceed 15.848 microvolts/meter (84 dB μ V/m) at 30 meters.

Measurement results:

The field strength at 3m distance was measured as 56,8 dB μ V/m. Extrapolated with 40 dB per decade to 30 meters distance it would be 16,8 dB μ V/m.

6.2.2.(e)

The field strength of any emissions within this band shall not exceed 15.500 microvolts/meter (84 dB μ V/m) at 30 meters.

Measurement results:

The field strength at 3m distance was measured as 56,8 dB μ V/m. Extrapolated with 40 dB per decade to 30 meters distance it would be 16,8 dB μ V/m.

15.225 (b) and 6.2.2.(e):

| Frequency range MHz | Level dB μ V/m | Limit dB μ V/m |
|---------------------|--------------------|--------------------|
| 13,410 – 13,553 | < 50 | 90,5 |
| 13,567 – 13,710 | < 50 | 90,5 |

The Limit was increased for a constant measurement distance of 3m with a factor of 40 dB per Decade.

15.225 (c) and 6.2.2.(e):

| Frequency range MHz | Level dB μ V/m | Limit dB μ V/m |
|---------------------|--------------------|--------------------|
| 13,110 – 13,410 | < 50 | 80,5 |
| 13,710 – 14,010 | < 50 | 80,5 |

The Limit was increased for a constant measurement distance of 3m with a factor of 40 dB per Decade.

15.225 (d):

See measurement diagram.

15.225 (e) and 6.2.2.(e):

The frequency tolerance of the carrier signal shall be maintained within $\pm 0,01$ % of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation of the primary supply voltage from 85 % to 115 % of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Measurement results:

| Test conditions | | Transmitter frequency |
|--|----------------------|-----------------------|
| | | 13,56 MHz |
| T_{nom} (20)°C | V_{min} (93,5)V | 13,56121 |
| T_{nom} (20)°C | V_{nom} (126,5)V | 13,56124 |
| T_{min} (-20)°C | V_{nom} (110)V | 13,56125 |
| T_{max} (50)°C | V_{nom} (110)V | 13,56123 |
| Maximum deviation from nominal frequency under extreme test conditions (%) | | 0,00922 |
| Measurement uncertainty | | ± 10 Hz |

Appendix 1

Test equipment used

| | | | | | |
|-------------------------------------|---|--------|-------------------------------------|--|--------|
| <input checked="" type="checkbox"/> | Anechoic Chamber with 3m measurement distance | NT-100 | <input type="checkbox"/> | ESPC - Test receiver 9 kHz - 2,5 GHz | NT-203 |
| <input checked="" type="checkbox"/> | MA 240 - Antenna mast 1 - 4 m height | NT-110 | <input checked="" type="checkbox"/> | ES126 - Test receiver 20 Hz - 26,5 GHz | NT-207 |
| <input checked="" type="checkbox"/> | DS 412 - Turntable 0 - 400 ° Azimuth | NT-111 | <input type="checkbox"/> | Digital Radio Tester CT555 | NT-208 |
| <input checked="" type="checkbox"/> | HD 100 Controller Mast+Turntable | NT-112 | <input type="checkbox"/> | Noise-gen., ITU-R 559-2 20 Hz - 20 kHz | NT-209 |
| <input type="checkbox"/> | HUF-Z2 - Bicon. Antenna 20 - 300 MHz | NT-120 | <input type="checkbox"/> | CMTA - Radiocommunication analyzer; 0,1 - 1000 MHz | NT-210 |
| <input type="checkbox"/> | HUF-Z3 - Log. Per. Antenna 200 - 1000 MHz | NT-121 | <input checked="" type="checkbox"/> | 3271 - Spectrum analyzer 100 Hz - 26,5 GHz | NT-211 |
| <input checked="" type="checkbox"/> | HFH-Z2 - Loop Antenna. 9 kHz - 30 MHz | NT-122 | <input type="checkbox"/> | Radiocommunication analyzer Marconi 2945A | NT-212 |
| <input type="checkbox"/> | HFH-Z6 - Rod Antenna 9 kHz - 30 MHz | NT-123 | <input type="checkbox"/> | 2855S - Communication analyzer | NT-213 |
| <input type="checkbox"/> | 3121C - Dipole Antenna 28 - 1000 MHz | NT-124 | <input type="checkbox"/> | Mixer M28HW 26,5 GHz - 40 GHz | NT-214 |
| <input type="checkbox"/> | 3115 - Horn Antenna 1 - 18 GHz | NT-125 | <input type="checkbox"/> | Diode Detector 0,01 GHz - 26,5 GHz | NT-215 |
| <input type="checkbox"/> | 3116 - Horn Antenna 18 - 40 GHz | NT-126 | <input type="checkbox"/> | 3160-10 Horn Antenna 26,5 GHz - 40 GHz | NT-216 |
| <input type="checkbox"/> | SAS-200/543 - Bicon. Ant. 20 MHz - 300 MHz | NT-127 | <input type="checkbox"/> | Radiocommunication analyzer SWR 1180 MD | NT-217 |
| <input checked="" type="checkbox"/> | AT-1080 - Log. Per. Ant. 80 - 1000 MHz | NT-128 | <input type="checkbox"/> | Mixer M19HWD 40 GHz - 60 GHz | NT-218 |
| <input checked="" type="checkbox"/> | HK-116 - bicon. Ant. 20 MHz - 300 MHz | NT-129 | <input type="checkbox"/> | Mixer M12HWD 60 GHz - 90 GHz | NT-219 |
| <input type="checkbox"/> | HK-116 - bicon. Ant. 20 MHz - 300 MHz | NT-130 | <input type="checkbox"/> | TDS - 540 DSO Digital scope | NT-220 |
| <input checked="" type="checkbox"/> | 3146 - Log. Per. Ant. 200 - 1000MHz | NT-131 | <input type="checkbox"/> | PM97 Scopemeter | NT-221 |
| <input type="checkbox"/> | Loop Antenna H-field | NT-132 | <input type="checkbox"/> | B10 - Harmonics and flicker analyzer | NT-231 |
| <input type="checkbox"/> | Horn Antenna 500 MHz - 2900 MHz | NT-133 | <input type="checkbox"/> | EFA-3 H-field- / E-field probe | NT-243 |
| <input type="checkbox"/> | Log. per. Antenna 800 MHz - 2500 MHz | NT-134 | <input type="checkbox"/> | E-field measuring instrument EMR-200; 100 kHz - 3 GHz | NT-244 |
| <input type="checkbox"/> | Log. per. Antenna 800 MHz - 2500 MHz | NT-135 | <input type="checkbox"/> | E-field probe 100 kHz - 3 GHz | NT-245 |
| <input type="checkbox"/> | BiConiLog Antenna 26 MHz - 2000 MHz | NT-137 | <input type="checkbox"/> | Magnetic field-Sensor 300 kHz - 30 MHz | NT-246 |
| <input type="checkbox"/> | Conical Dipol Antenna PCD8250 | NT-138 | <input type="checkbox"/> | E-field probe 10 MHz - 18 GHz | NT-247 |
| <input type="checkbox"/> | HZ-1 Antenna tripod | NT-150 | <input type="checkbox"/> | H-field probe 10 MHz - 1 GHz | NT-248 |
| <input checked="" type="checkbox"/> | BN 1500 Antenna tripod | NT-151 | <input type="checkbox"/> | ELT-400 1 Hz - 400 kHz | NT-249 |
| <input type="checkbox"/> | Ant. tripod for EN61000-4-3 Model TP1000A | NT-156 | <input type="checkbox"/> | MDS 21 - Absorbing clamp 30 - 1000 MHz | NT-250 |
| <input type="checkbox"/> | ESVP - Test receiver 20 - 1000 MHz | NT-201 | | | |

Medizintechnik/
Nachrichtentechnik/EMV

Department: EMV

Test report number:
M/EMV-04/130

Page: 1 of 3

Date: 29.03.2004

Checked by: 

Appendix 1 (continued)

Test equipment used

| | | | | | |
|-------------------------------------|--|--------|--------------------------|--|--------|
| <input type="checkbox"/> | FCC-2031 EM Injection clamp | NT-251 | <input type="checkbox"/> | AS0102-65R - RF-Amplifier 1 GHz - 2 GHz | NT-333 |
| <input type="checkbox"/> | FCC-2031-DCN Ferrite decoupling network | NT-252 | <input type="checkbox"/> | APA01 – RF-Amplifier 0,5 GHz – 2,5 GHz | NT-334 |
| <input type="checkbox"/> | PR50 Current Probe | NT-253 | <input type="checkbox"/> | Preamplifier 1 GHz - 4 GHz | NT-335 |
| <input type="checkbox"/> | PR630 Current Probe | NT-254 | <input type="checkbox"/> | Preamplifier for GPS MKU 152 A | NT-336 |
| <input type="checkbox"/> | Model 2000 Digital Multimeter | NT-261 | <input type="checkbox"/> | Preamplifier 100 MHz – 23 GHz | NT-337 |
| <input type="checkbox"/> | Fluke 97 Digital Multimeter | NT-262 | <input type="checkbox"/> | DC Block 10 MHz – 18 GHz Model 8048 | NT-338 |
| <input type="checkbox"/> | Fluke 97 Digital Multimeter | NT-263 | <input type="checkbox"/> | 2-97201 Electronic load | NT-341 |
| <input checked="" type="checkbox"/> | ESH2-Z5 Artificial mains network 4x25A | NT-300 | <input type="checkbox"/> | TSX3510P - Power supply 0-30 V / 0 - 10 A | NT-344 |
| <input type="checkbox"/> | ESH3-Z5 Artificial mains network 2x10A | NT-301 | <input type="checkbox"/> | TSX3510P - Power supply 0-30 V / 0 - 10 A | NT-345 |
| <input type="checkbox"/> | ESH3-Z6 Artificial mains network 1x100A | NT-302 | <input type="checkbox"/> | VDS 200 Mobil-impuls-generator | NT-350 |
| <input type="checkbox"/> | ESH3-Z4 T-Artificial network | NT-303 | <input type="checkbox"/> | LD 200 Mobil-impuls-generator | NT-351 |
| <input type="checkbox"/> | PHE 4500/B Power amplifier | NT-304 | <input type="checkbox"/> | MPG 200 Mobil-Impuls-Generators | NT-352 |
| <input type="checkbox"/> | EZ10 T-Artificial network | NT-305 | <input type="checkbox"/> | EFT 200 Mobil-impuls-generator | NT-353 |
| <input type="checkbox"/> | SMG - Signal generator 0,1 - 1000 MHz | NT-310 | <input type="checkbox"/> | FP 16/3-1 3 ph. Coupling filter (Burst) | NT-400 |
| <input type="checkbox"/> | PM 5518 TXVPS Video generator | NT-311 | <input type="checkbox"/> | PHE 4500 - Mains impedance network | NT-401 |
| <input type="checkbox"/> | RefRad Reference generator | NT-312 | <input type="checkbox"/> | IP 6.2 Coupling filter for data lines (Surge) | NT-403 |
| <input type="checkbox"/> | SMP 02 Signal generator 10 MHz - 20 GHz | NT-313 | <input type="checkbox"/> | ESH2-Z3 - Probe 9 kHz - 30 MHz | NT-410 |
| <input type="checkbox"/> | 40 MHz Arbitrary Generator T1241 | NT-315 | <input type="checkbox"/> | IP 4 - Capacitive clamp (Burst) | NT-411 |
| <input type="checkbox"/> | PEFT - Burst generator up to 4 kV | NT-320 | <input type="checkbox"/> | Highpass-Filter 100 MHz – 4 GHz | NT-412 |
| <input type="checkbox"/> | ESD 30 System up to 25 kV | NT-321 | <input type="checkbox"/> | Highpass-Filter 600 MHz – 4 GHz | NT-413 |
| <input type="checkbox"/> | PSURGE 4.1 Surge generator | NT-324 | <input type="checkbox"/> | Highpass-Filter 1250 MHz – 4 GHz | NT-414 |
| <input type="checkbox"/> | TRANSIENT 1000 Immunity test system | NT-325 | <input type="checkbox"/> | Highpass-Filter 1800 MHz – 18 GHz | NT-415 |
| <input type="checkbox"/> | VCS 500-M6 Surge-Generator | NT-326 | <input type="checkbox"/> | Highpass-Filter 3500 MHz – 18 GHz | NT-416 |
| <input type="checkbox"/> | BTA-250 - RF-Amplifier 9 kHz - 220 MHz / 250 W | NT-330 | <input type="checkbox"/> | HV-Attenuator 54,5 dB (Burst) | NT-420 |
| <input type="checkbox"/> | T82-50 RF-Amplifier 2 GHz – 8 GHz | NT-331 | <input type="checkbox"/> | RF-Attenuator 20 dB 0,1 - 1000 MHz / 25 W | NT-421 |
| <input type="checkbox"/> | 500W1000M7 - RF-Amplifier 80 - 1000 MHz / 500 W | NT-332 | <input type="checkbox"/> | RF-Attenuator 10 dB 0,1 - 1000 MHz / 20 W | NT-422 |

Medizintechnik/
Nachrichtentechnik/EMV

Department: EMV

Test report number:
M/EMV-04/130

Page: 2 of 3

Date: 29.03.2004

Checked by: 

Appendix 1 (continued)

Test equipment used

| | | | | | |
|-------------------------------------|--|--------|-------------------------------------|---|--------|
| <input type="checkbox"/> | RF-Attenuator 30 dB 0,1 - 1000 MHz / 1 W | NT-423 | <input type="checkbox"/> | FCC-801-C1 Coupling decoupling network | NT-464 |
| <input type="checkbox"/> | RF-Attenuator 30 dB | NT-424 | <input type="checkbox"/> | F-16A - Current probe 1kHz - 70MHz | NT-465 |
| <input type="checkbox"/> | RF-Attenuator 6 dB 0,1 - 1000 MHz / 1 W | NT-425 | <input checked="" type="checkbox"/> | PC P450 - Test computer | NT-500 |
| <input type="checkbox"/> | RF-Attenuator 6 dB 0,1 - 1000 MHz / 1 W | NT-426 | <input type="checkbox"/> | PC P4 1700 MHz Notebook | NT-505 |
| <input type="checkbox"/> | Voltage-divider 1:100 | NT-427 | <input type="checkbox"/> | PC PIII 933 MHz Notebook | NT-506 |
| <input type="checkbox"/> | RF-Attenuator 6 dB | NT-428 | <input type="checkbox"/> | Monitoring camera with Monitor | NT-511 |
| <input type="checkbox"/> | RF-Attenuator 0 dB - 81 dB | NT-429 | <input checked="" type="checkbox"/> | ES-K1 Test software | NT-520 |
| <input type="checkbox"/> | WRUJ 27 - Band blocking 27 MHz | NT-430 | <input type="checkbox"/> | SPS_PHE - Test software voltage fluctuations/harmonics | NT-525 |
| <input type="checkbox"/> | WHJ450C9 AA - High pass 450 MHz | NT-431 | <input type="checkbox"/> | SPS_EM - Test software for PHE 4500/B | NT-527 |
| <input type="checkbox"/> | WHJ250C9 AA - High pass 250 MHz | NT-432 | <input type="checkbox"/> | Noise power test apparatus according to EN 55014 | NT-530 |
| <input type="checkbox"/> | RF-Load 150 W | NT-433 | <input type="checkbox"/> | Vertical coupling plane (ESD) | NT-531 |
| <input type="checkbox"/> | Impedance transducer 50 Ohm - 800 Ohm | NT-435 | <input type="checkbox"/> | TEM-Zelle | NT-533 |
| <input type="checkbox"/> | RF-Attenuator DC - 18 GHz 6 dB | NT-436 | <input type="checkbox"/> | Test cable #4 for EN 61000-4-6 | NT-553 |
| <input type="checkbox"/> | RF-Attenuator DC - 18 GHz 6 dB | NT-437 | <input checked="" type="checkbox"/> | Test cable #3 for conducted emission | NT-554 |
| <input type="checkbox"/> | RF-Attenuator DC - 18 GHz 10 dB | NT-438 | <input type="checkbox"/> | Test cable #5 ESD-cable (2x470k) | NT-555 |
| <input type="checkbox"/> | RF-Attenuator DC - 18 GHz 20 dB | NT-439 | <input type="checkbox"/> | Test cable #6 ESD-cable (2x470k) | NT-556 |
| <input type="checkbox"/> | I+P 7780 Directional coupler 100 - 2000 MHz | NT-440 | <input type="checkbox"/> | Test cable #8 Sucoflex 104EA | NT-559 |
| <input checked="" type="checkbox"/> | ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz | NT-441 | <input type="checkbox"/> | Test cable #9 (for outdoor measurements) | NT-580 |
| <input type="checkbox"/> | Power Divider 6 dB/1 W/50 Ohm | NT-443 | <input type="checkbox"/> | Test cable #10 (for outdoor measurements) | NT-581 |
| <input type="checkbox"/> | Directional coupler 0,1 MHz - 70 MHz | NT-444 | <input type="checkbox"/> | Test cable #13 Sucoflex 104PE | NT-584 |
| <input type="checkbox"/> | Directional coupler 0,1 MHz - 70 MHz | NT-445 | <input type="checkbox"/> | Shield chamber | NT-600 |
| <input type="checkbox"/> | Tube imitations according to EN 55015 | NT-450 | <input checked="" type="checkbox"/> | Climatic chamber -55°C to +180°C | M-512 |
| <input type="checkbox"/> | FCC-801-M2-50A Coupling decoupling network | NT-459 | <input type="checkbox"/> | Control and simulation equipment for EUT | --- |
| <input type="checkbox"/> | FCC-801-M5-25 Coupling decoupling network | NT-460 | | | |
| <input type="checkbox"/> | FCC-801-AF10 Coupling decoupling network | NT-461 | | | |
| <input type="checkbox"/> | FCC-801-S25 Coupling decoupling network | NT-462 | | | |
| <input type="checkbox"/> | FCC-801-T4 Coupling decoupling network | NT-463 | | | |

Medizintechnik/
Nachrichtentechnik/EMV

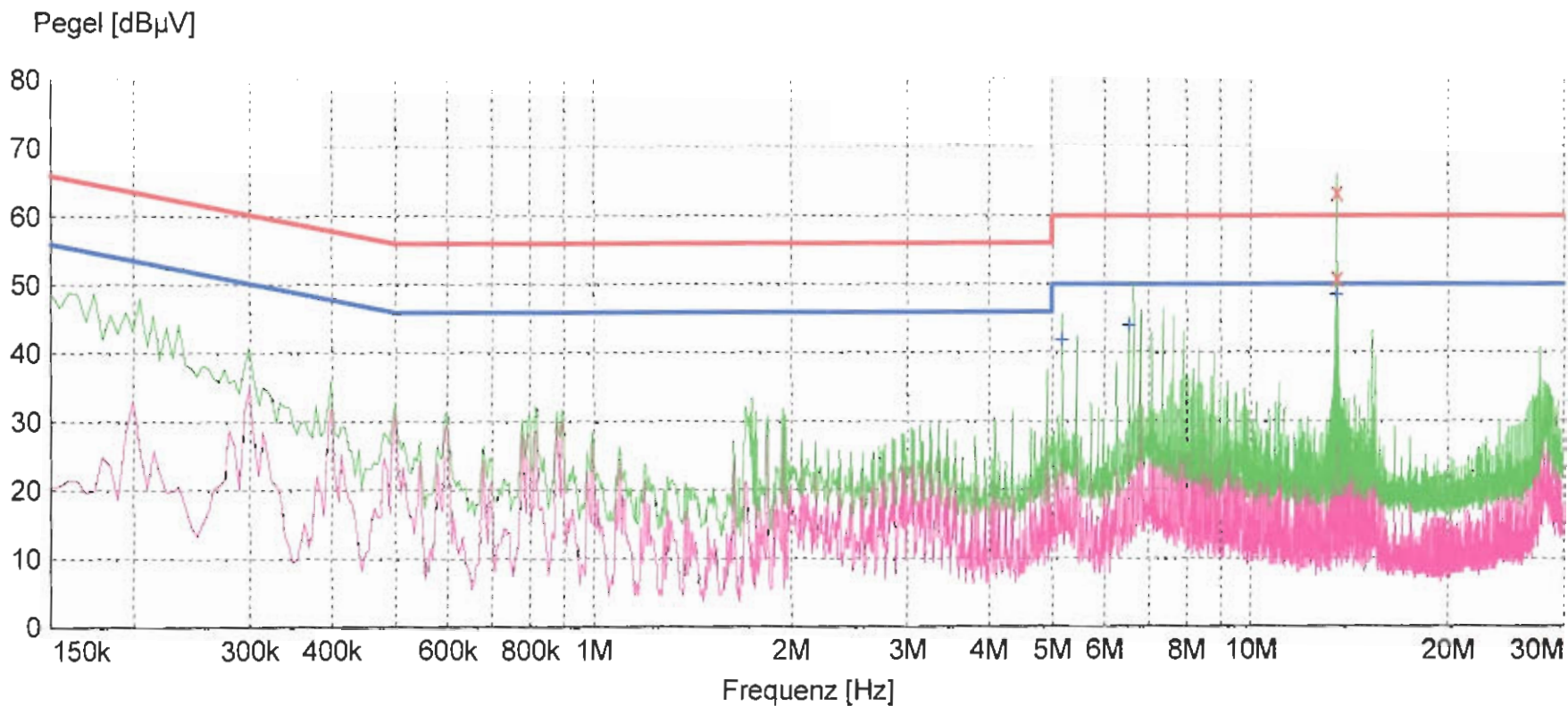
Department: EMV

Test report number:
M/EMV-04/130

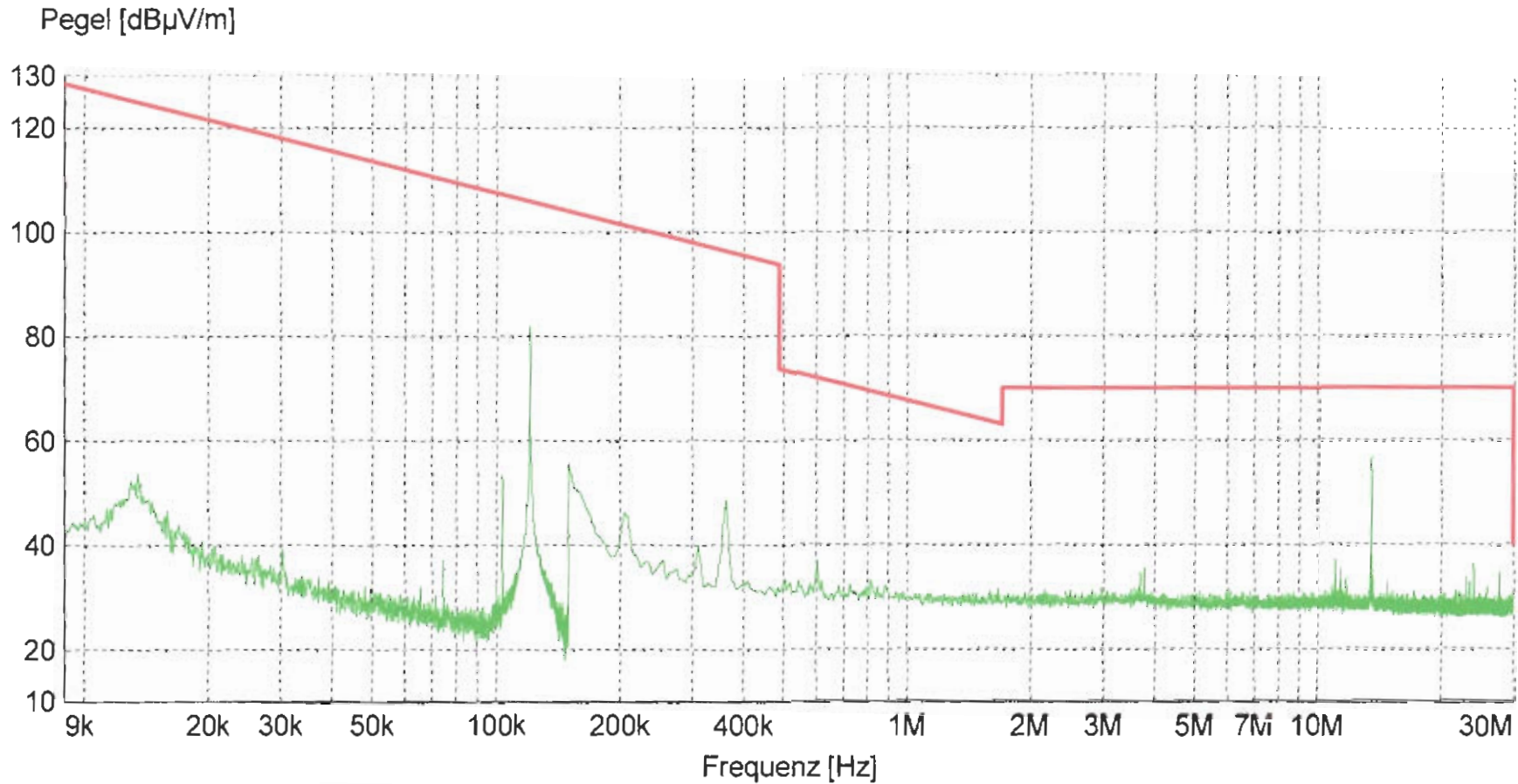
Page: 3 of 3

Date: 29.03.2004

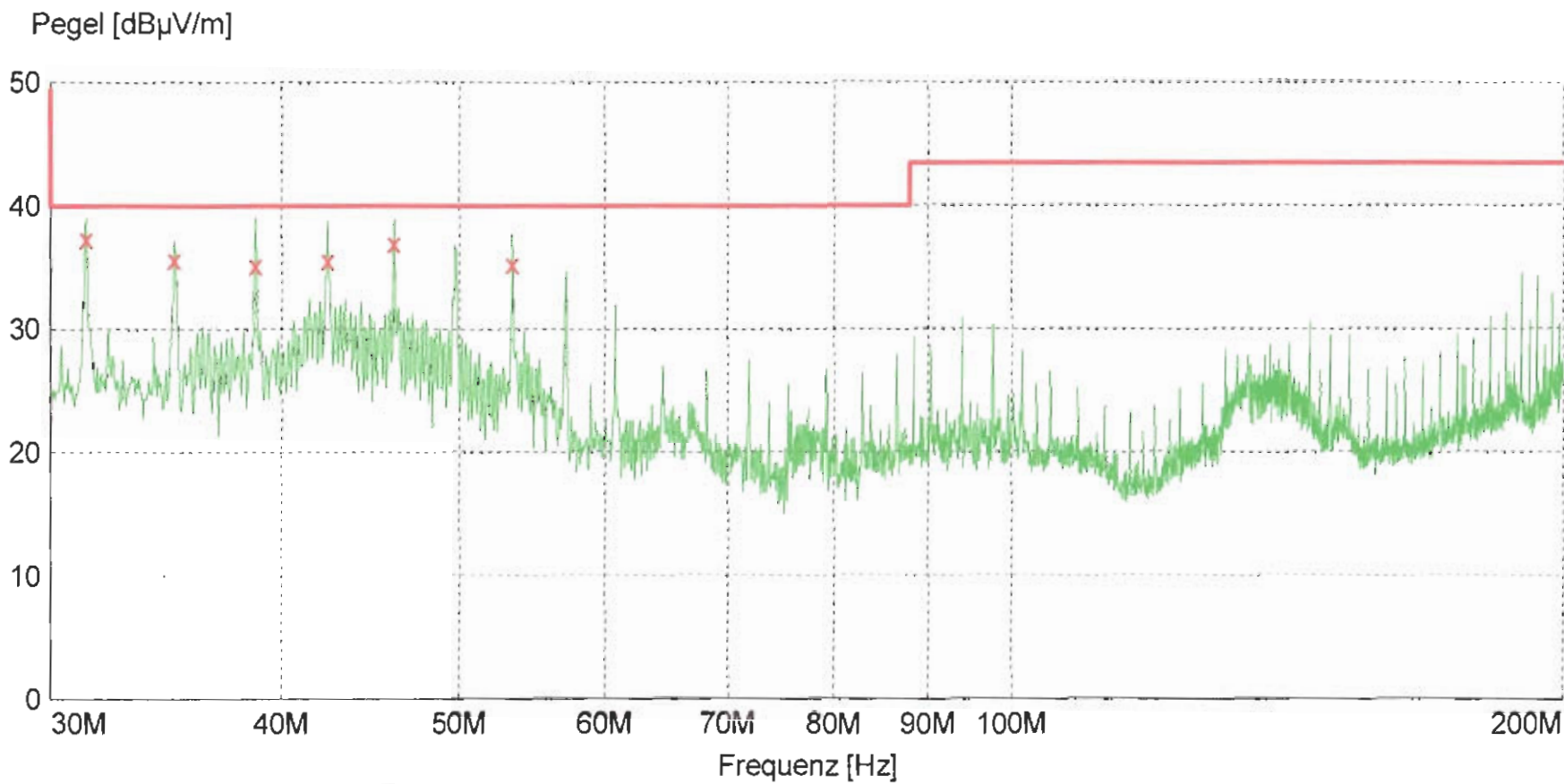
Checked by: 



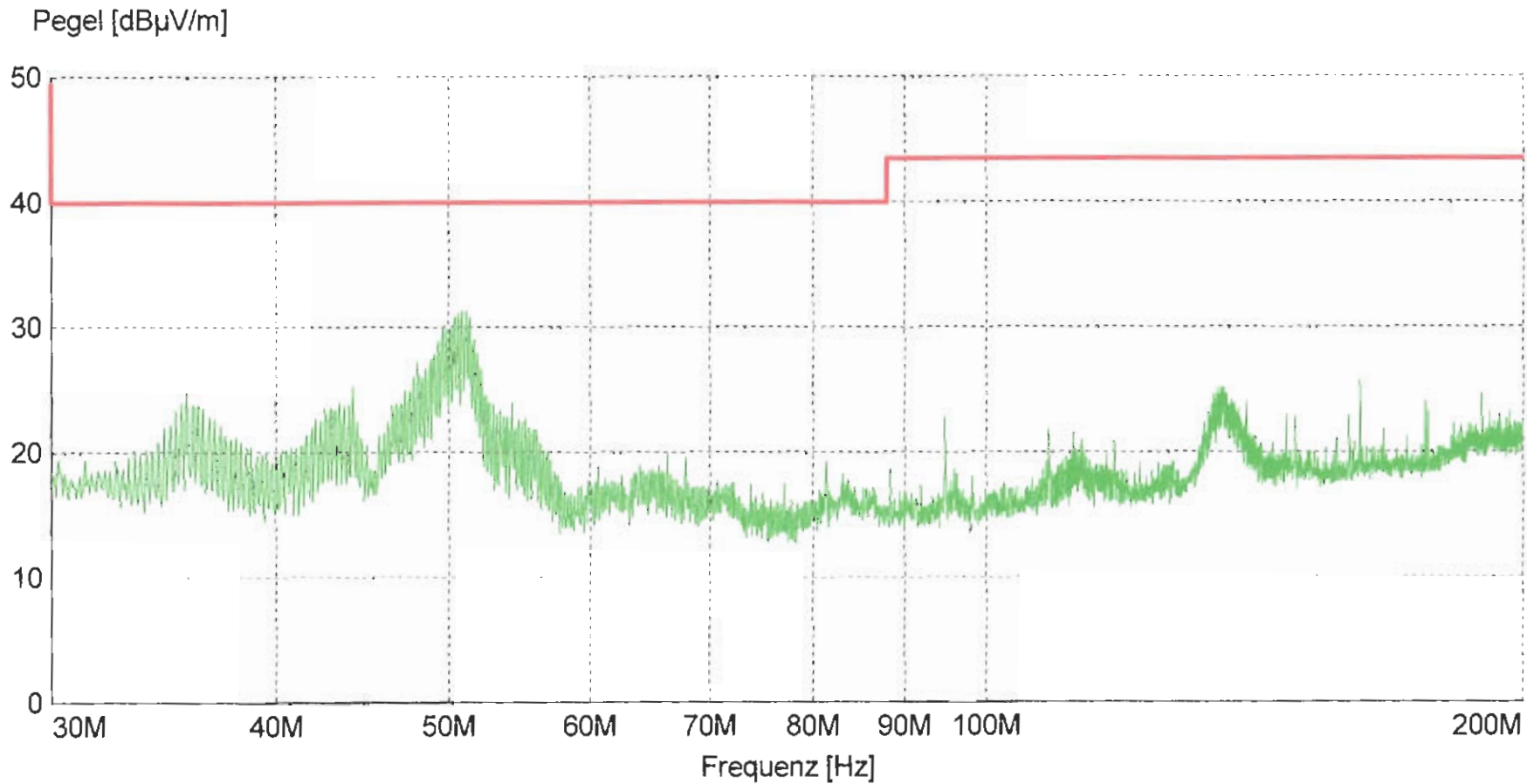
| | | | | |
|-----|-----|---------------|----|---------------|
| x x | MES | PS_V1_VAC_fin | QP | |
| + + | MES | PS_V1_VAC_fin | AV | |
| — | MES | PS_V1_VAC_pre | PK | |
| — | MES | PS_V1_VAC_pre | AV | |
| — | LIM | EN 55022 V | QP | EN 55022 V QP |
| — | LIM | EN 55022 V | AV | EN 55022 V AV |



— MES PS V1 Ff0 pre PK
 — LIM FCC ClassB F QP 40dB FCC ClassB, field strength 3m



x x :MES PS_V1_F1_fin_QP
 — MES PS_V1_F1_pre_PK
 — LIM FCC ClassB F_QP/AV FCC ClassB, field strength 3m



— MES PS_V2_Ff1_pre_PK
 — LIM FCC ClassB F_QP/AV FCC ClassB, field strength 3m