

Straubing, 3 July, 1998

**TEST - REPORT**

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**No. 51966-70833-1**

for

**SRIF Module  
2.4 GHz RF Modem**

Applicant: Siemens AG,  
A & D, Automation and Drives Division

Purpose of testing: To show compliance with  
FCC Code of Federal Regulations,  
CFR 47, Part 15, Subpart C,  
Sections 15.209 and 15.249

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**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

Equipment Under Test (EUT): SRIF Module  
Type of equipment: RF Modem  
Parts/accessories: N.A.  
Version of EUT: **FCC-ID: NXWSRIF245**

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Applicant: Siemens AG, A & D PT 34  
(full address) Gleiwitzer Strasse 555  
D-90475 Nürnberg

Contract identification: N.A.  
Contact person: Mr. Spies  
Manufacturer: Applicant

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Receipt of EUT: November 18, 1997  
Date of test: July 1998

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Responsible for testing: Mr. Johann Roidt  
Responsible for test report: Mr. Johann Roidt

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## 2. Summary of Test Results

The tested samples fully comply with the requirements for intentional radiators set forth in the

**Code of Federal Regulations CFR 47  
Part 15 Subpart C, Section 15.249  
of the  
Federal Communication Commission (FCC).**



Johann Roidt  
Technical Manager

### 3. Operation Mode of EUT

The EUT was powered from a 5 V DC power source. During all measurements the EUT was operated with its dedicated antenna. Emission testing was performed with modulated carrier at its lowest, mid and highest channel.

### 4. Changes made to the EUT during this certification test

No changes have been made to the EUT during this certification test.

### 5. Configuration of EUT and Peripheral Devices

#### Configuration of cables to EUT

Unshielded two-wire power supply cable

#### Configuration of peripheral devices connected to EUT

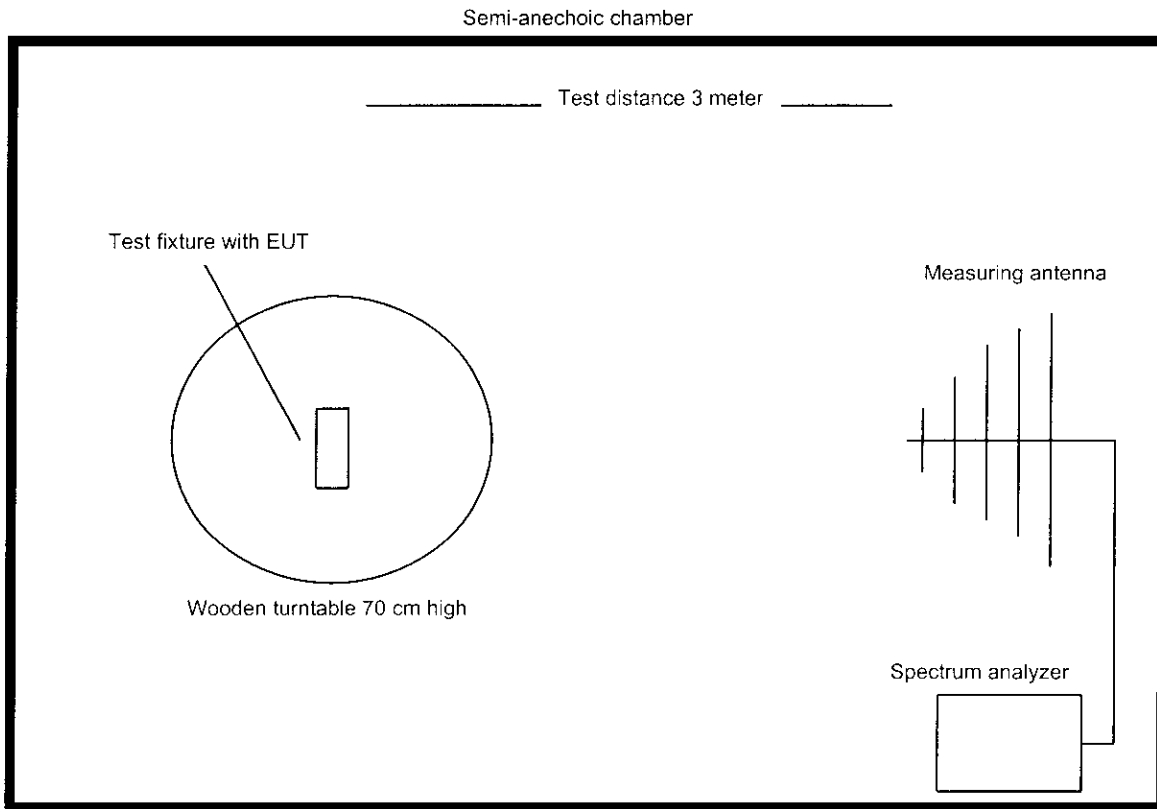
Not applicable

## Measuring Methods

### **Transmitter Parameter TestS (§15.209)**

All transmitter parameter radiated tests are performed at a test distance of 3 meters in a semi-anechoic chamber. During the tests the EUT will be rotated all around and the receiving antenna will be raised and lowered from 1 meter to 4 meters to find the maximum levels of emission. Cables and equipment will be placed and moved within the position likely to find their maximum emissions. Measurements will be made in horizontal and vertical polarization of the receiving antenna. The EUT was operating in transmit mode with its internal modulation.

The bandwidth of the emission will be measured with a spectrum analyzer. Resolution Bandwidth and Video Bandwidth will be set to 10 kHz.



***Radiated Emissions 0.009 – 30 MHz***

Radiated emissions in the frequency range 0.009 – 30 MHz will be measured initially at a distance of 3 meters. A prescan at 3 meter distance will be performed in a shielded room with the detector of the spectrum analyzer or EMI Receiver set to peak. Final measurement is then performed at 30 meter distance. In case the regulation requires testing at other distances, the result will be extrapolated. The extrapolation factor will be determined by making a second measurement at 10 meter distance. The provisions of 15.31 (d) apply.

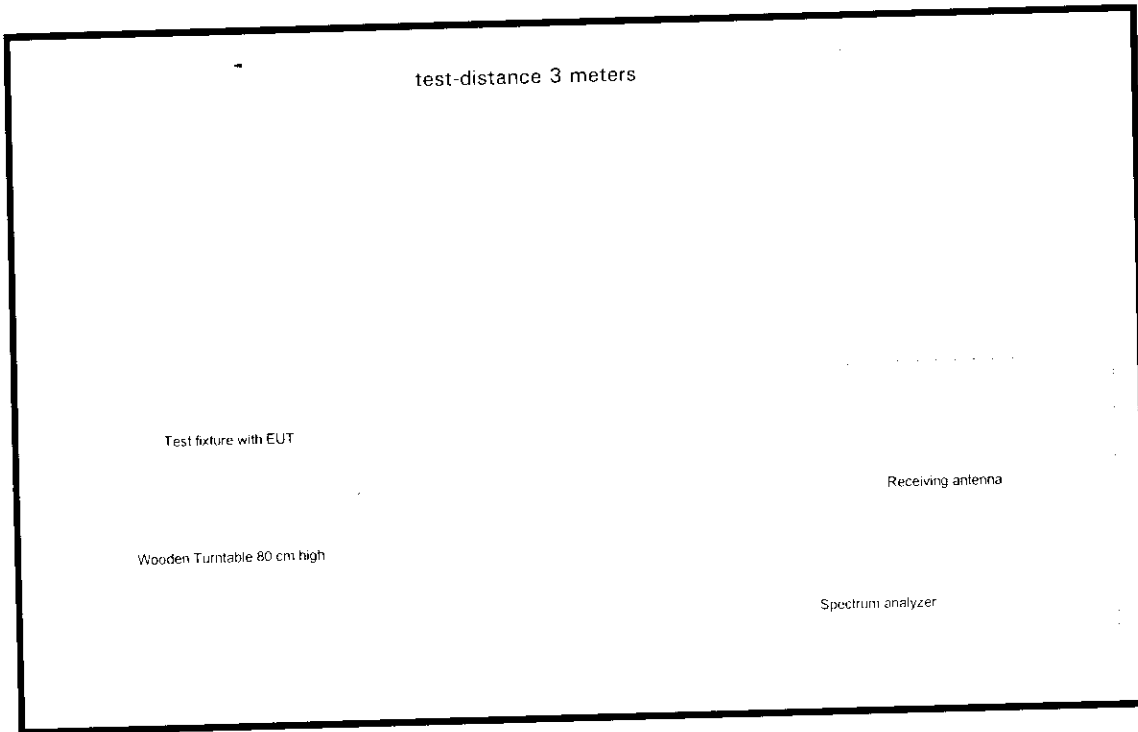
According to section 15.209 (d) final measurement is performed with the detector set to Quasi Peak except for the frequency bands 9 – 90 kHz and 110 – 490 kHz where average detector is employed.

**Radiated Emissions 30 MHz – 1 GHz**

Radiated emissions in the frequency range 30 – 1000 MHz will be measured at a distance of 3 meter. The bandwidth of the spectrum analyzer will be set to 100 kHz and the detector function set to Quasi Peak.

The test setup will be made in accordance with ANSI C.63.4-1992.

Measurements will be made in horizontal and vertical polarization of the receiving antenna. Prescans will be taken in a semianechoic chamber using a spectrum analyzer with the detector function set to peak. All tests will be performed at a test distance of 3 meters. For final testing an open field test site will be used. During the tests the EUT will be rotated all around and the receiving antenna will be raised and lowered from 1 meter to 4 meter to find maximum levels of emissions.





## **Radiated Emissions above 1 GHz**

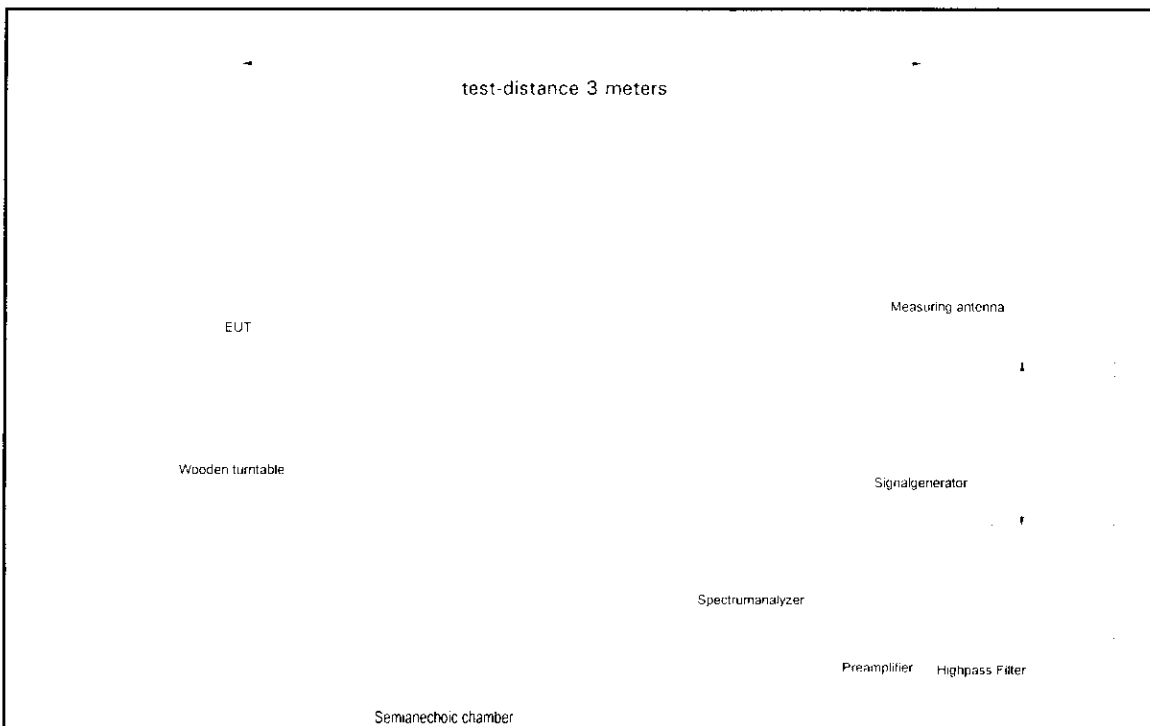
Radiated emissions were measured in the frequency range 1 GHz to 3.15 GHz in transmit mode. The resolution bandwidth and the video bandwidth of the spectrum analyzer was set to 1 MHz. Prescans with video bandwidth 1 MHz (peak mode) were taken to check out the highest levels (with reference to the limits), see 6.4 for details to prescan procedure. Final measurements were performed at the three highest emissions per band. EUT was rotated all around and receiving antenna was raised and lowered to find the maximum levels of emission. Cables and equipment were placed and moved within the range of position likely to find their maximum emissions. Measurements were made in horizontal and vertical polarization.

All tests were performed in a semi-anechoic chamber with a test-distance of 3 meters.

To avoid overload in transmit mode a high pass filter was connected to the input of the preamplifier (in case when a preamplifier was necessary)). In this case a signal generator was used for substitution to eliminate the influence of filter and preamplifier.

Substitution was performed in the following steps:

- antenna cable was disconnected from receiving antenna and connected to signal generator output
- level of signal generator was increased until the reading value of the analyzer was the same as caused by EUT
- level of signal generator was noted
- final value was calculated by converting the signal generator level to dB $\mu$ V/m and adding the antenna correction factor.



### ***Procedure for preliminary Radiated Emission Tests***

The procedure for preliminary radiated emission tests follows section 13.4.1 of ANSI C63.4-1992. In case the EUT is a handheld device preliminary emission measurements will be performed in three orthogonal axes of the EUT.

Prescans are made in the following frequency range:

0.009 – 30 MHz  
30 – 230 MHz  
230 – 1000 MHz  
1000 – 2600 MHz  
2600 – 3950 MHz  
3950 – 5850 MHz  
5850 – 8200 MHz  
8200 – 12400 MHz  
12400 – 18000 MHz  
18000 – 26500 MHz  
26500 – 40000 MHz

with the receiving antenna set to horizontal and vertical polarization.

The following step-by-step procedure will be used:

- 1) Monitor the frequency range at a fixed antenna height and EUT azimuth
- 2) Rotate the EUT by 360 degrees to maximize the suspected highest azimuth signals. Note the amplitude and frequency of the signals. Orient the EUT azimuth for maximum emission.
- 3) Move the antenna over its full allowed range of travel to maximize the emission. If the signal or another one at a different frequency is observed to exceed the previously noted highest amplitude signal by 1 dB or more, return to step 2) with the antenna fixed at this height. Otherwise move the antenna to the height that repeats the highest amplitude observation and proceed.
- 4) Identify at least the three highest emissions per band by using the multimarker function of the spectrum analyzer. Make a hardcopy of the spectrum.
- 5) Repeat steps 1) through 4) for the other orthogonal axes of the EUT.
- 6) Repeat steps 1) through 5) for other orthogonal antenna polarization.

***Method for comparing spectrum analyzer output to the limit***

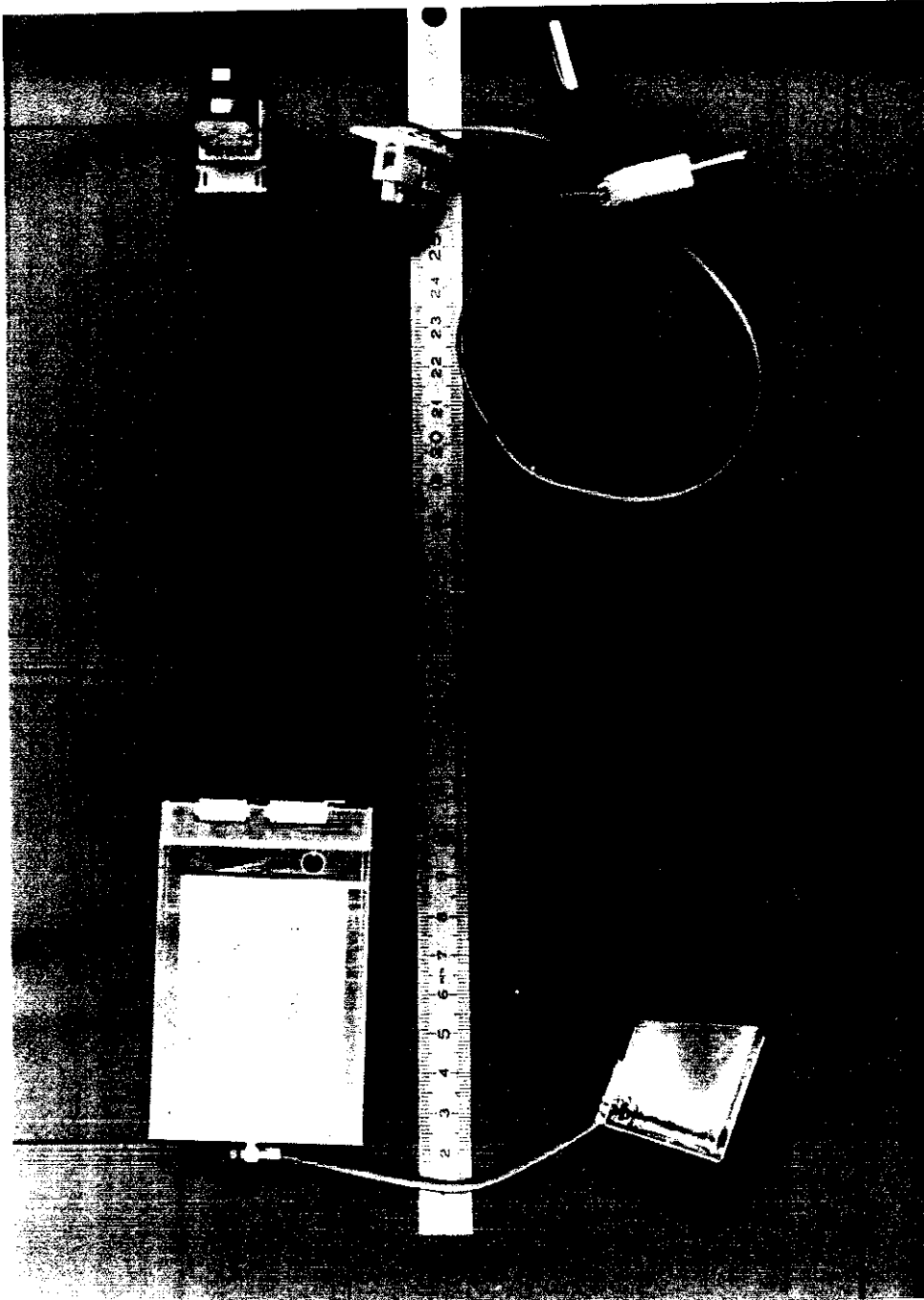
The following procedure will be used:

- 1) Maximize the emission according to 6.4.
- 2) Set the spectrum analyzer to **Max Hold**
- 3) Wait until the noise is fully maximized.
- 4) Put the marker on top of the investigated signal.
- 5) Note frequency and level of the investigated signal
- 6) Add antenna correction and cable loss to this level and compare it with the limit.

*Spectrum analyzer setting for final test*

| Frequency range             | Detector   | Resolution Bandwidth | Video Bandwidth | Trace Mode |
|-----------------------------|------------|----------------------|-----------------|------------|
| 0.009 – 30 MHz              | Quasi Peak | 10 kHz               | 10 kHz          | Max Hold   |
| 9 – 90 kHz<br>110 – 490 kHz | Average    | 10 kHz               | 100 Hz          | Max Hold   |
| 30 – 1000 MHz               | Quasi Peak | 100 kHz              | 1 MHz           | Max Hold   |
| > 1000 MHz                  | Peak       | 1 MHz                | 1 MHz           | Max Hold   |
| > 1000 MHz                  | Average    | 1 MHz                | 1 kHz           | Max Hold   |

## 6. Photographs Taken During Testing



**7. List of Measurements**

| FCC Part 15 Subpart C |   |      |        |
|-----------------------|---|------|--------|
| Section(s):           | Test                                      | Page | Result |
|                       | <b>Transmit mode (TX):</b>                |      |        |
| 15.249                | Field strength of emissions (fundamental) | 17   | passed |
| 15.249                | Field strength of emissions (harmonics)   | 18   |        |
|                       | <b>Receive Mode (RX)</b>                  |      |        |
| 15.249                | Field strength of emissions               | 19   |        |

**8. Test Results**

## Field Strength of Emissions according to FCC Rules, Part 15, Subpart C, Section 15.249 (Fundamental, TX Mode)

Model: **SRIF Module**  
Type: **with dedicated Antenna**  
Serial No.: Sample No. 1  
Applicant: Siemens AG, A & D  
Test Site: Senton GmbH  
Distance: 3 meter  
Date of Test: June 10, 1989  
Test Operator: J. Roidt

| Frequency<br>MHz | Detector | Antenna<br>Pol. | Analyzer<br>Reading<br>dB $\mu$ V | Antenna<br>correction<br>dB/m | Field<br>Strength<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB |
|------------------|----------|-----------------|-----------------------------------|-------------------------------|-----------------------------------|-----------------------|--------------|
| 2451.5           | Peak     | Horizontal      | 61.5                              | 31.2                          | <b>92.7</b>                       | 94.0                  | <b>1.3</b>   |
| 2466.5           | Peak     | Horizontal      | 61.3                              | 31.2                          | <b>92.5</b>                       | 94.0                  | <b>1.5</b>   |
| 2481.5           | Peak     | Horizontal      | 61.4                              | 31.2                          | <b>92.6</b>                       | 94.0                  | <b>1.4</b>   |

### Sample calculation of Field Strength values:

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

Duty cycle correction and desensitization correction not applicable ✓

Note: Antenna correction includes cable losses as well.

**Test instruments used: 101, 114, 149, 009 (see instruments list for details)**



**Field Strength of Emissions according to FCC Rules,  
Part 15, Subpart C, Section 15.249  
(Harmonics, TX Mode)**

Model: **SRIF Module**  
Type: **with dedicated Antenna**  
Serial No.: Sample No. 1  
Applicant: Siemens AG, A & D  
Test Site: Senton GmbH  
Distance: 3 meter  
Date of Test: June 10, 1989  
Test Operator: J. Roidt

| Frequency<br>MHz | Detector | Antenna<br>Pol. | Analyzer<br>Reading<br>dB $\mu$ V | Antenna<br>correction<br>dB/m | Field<br>Strength<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB |
|------------------|----------|-----------------|-----------------------------------|-------------------------------|-----------------------------------|-----------------------|--------------|
| 4938.0           | Peak     | Horizontal      | 20.1                              | 28.2                          | <b>48.3</b>                       | 54.0                  | <b>5.7</b>   |
| 7403.6           | Peak     | Horizontal      | 19.2                              | 31.1                          | <b>50.3</b>                       | 54.0                  | <b>3.7</b>   |
| 9936.0           | Peak     | Horizontal      | 16.3                              | 34.8                          | <b>51.1</b>                       | 54.0                  | <b>2.9</b>   |

**Sample calculation of Field Strength values:**

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

Duty cycle correction and desensitization correction not applicable

Note: Antenna correction includes cable losses as well.

Test instruments used: 101, 114, 149, 009 (see instruments list for details)

**Field Strength of Emissions according to FCC Rules,  
Part 15, Subpart C, Section 15.249  
(RX Mode)**

Model: **SRIF Module**  
Type: **with dedicated Antenna**  
Serial No.: Sample No. 1  
Applicant: Siemens AG, A & D  
Test Site: Senton GmbH  
Distance: 3 meter  
Date of Test: June 10, 1989  
Test Operator: J. Roidt

| Frequency<br>MHz | Detector | Antenna<br>Pol. | Analyzer<br>Reading<br>dB $\mu$ V | Antenna<br>correction<br>dB/m | Field<br>Strength<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB |
|------------------|----------|-----------------|-----------------------------------|-------------------------------|-----------------------------------|-----------------------|--------------|
| 2384.8           | Peak     | Vertical        | 18.5                              | 31.2                          | <b>49.7</b>                       | 54.0                  | <b>4.3</b>   |
| 2400.8           | Peak     | Vertical        | 20.4                              | 31.2                          | <b>51.6</b>                       | 54.0                  | <b>2.4</b>   |
| 2415.1           | Peak     | Vertical        | 22.0                              | 31.2                          | <b>53.2</b>                       | 54.0                  | <b>0.8</b>   |

**Sample calculation of Field Strength values:**

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

Duty cycle correction and desensitization correction not applicable

Note: Antenna correction includes cable losses as well.

Test instruments used: 101, 114, 149, 009 (see instruments list for details)

## 9. Equipment List

### General Test Equipment and Ancillaries

| No. | Instrument/Ancillary     | Type       | Serial Number | Manufacturer       |
|-----|--------------------------|------------|---------------|--------------------|
| 001 | Open area test site      | EG 1       |               | Senton             |
| 002 | Shielded room            | No. 1      | 1451          | Senton             |
| 003 | Shielded room            | No. 2      | 1452          | Senton             |
| 004 | Semi-anechoic room       | No. 3      | 1453          | Siemens            |
| 005 | Shielded room            | No. 4      | 3FD 100 544   | Euroshield         |
| 006 | Shielded room            | No. 5      | 5468          | Ray Proof Division |
| 007 | Temperature test chamber | HT4010     | 07065550      | Heraeus            |
| 008 | Cable                    | RG214      | 1309          | Senton             |
| 009 | Cable                    | 200CM_001  | 1357          | Rosenberger        |
| 010 | Cable                    | 150CM_001  | 1479          | Rosenberger        |
| 011 | Cable                    | 150CM_002  | 1480          | Rosenberger        |
| 012 | Cable set EG1            | RG214      | 1189 - 1191   | Senton             |
| 013 | Cable set cabin no. 1    | RG214      |               | Senton             |
| 014 | Cable set cabin no. 2    | RG214      |               | Senton             |
| 015 | Cable set cabin no. 3    | RG214      |               | Senton             |
| 016 | Cable set cabin no. 4    | RG214      |               | Senton             |
| 017 | DC power supply          | NGSM 32/10 | 203           | Rohde & Schwarz    |
| 018 | DC power supply          | NGB        | 2455          | Rohde & Schwarz    |
| 019 | DC power supply          | NGA        | 386           | Rohde & Schwarz    |
| 020 | Isolating transformer    | RT 5A      | 10387         | Grundig            |
| 021 | Isolating transformer    | RT 5A      | 10416         | Grundig            |
| 022 | Digital multimeter       | 199        | 463386        | Keithley           |
| 023 | Multimeter               | HP E2373A  | 2927J03345    | Hewlett Packard    |

## Test Equipment and Ancillaries used for Emission Tests

| No. | Instrument/Ancillary  | Type            | Serial Number                          | Manufacturer    |
|-----|---|-----------------|--|-----------------|
| 101 | EMI test receiver/<br>Spectrum Analyzer with<br>Harmonic Mixer Set<br>(26.5 - 40 GHz) | ESMI<br>FS-Z-40 | 839379/013<br>839587/006<br>845881/005 | Rohde & Schwarz |
| 102 | Spectrum analyzer   | R 3271          | 05050023                               | Advantest       |
| 103 | Test receiver   | ESH 3           | 880112/032                             | Rohde & Schwarz |
| 104 | Test receiver   | ESHS 10         | 860043/016                             | Rohde & Schwarz |
| 105 | Test receiver   | ESV             | 881414/009                             | Rohde & Schwarz |
| 106 | Test receiver   | ESVP            | 881120/024                             | Rohde & Schwarz |
| 107 | Audio analyzer  | UPA             | 862954                                 | Rohde & Schwarz |
| 108 | Radio communication<br>service monitor  | CMS 54          | 838384/030                             | Rohde & Schwarz |
| 109 | Power meter   | NRVS            | 836856/015                             | Rohde & Schwarz |
| 110 | Power sensor  | NRV-Z52         | 837901/030                             | Rohde & Schwarz |
| 111 | Power sensor  | NRV-Z4          | 863828/015                             | Rohde & Schwarz |
| 112 | Preamplifier  | ESV-Z3          | 860907/004                             | Rohde & Schwarz |
| 113 | Preamplifier  | R14601          |  | Advantest       |
| 114 | Preamplifier  | ACX/080-3030    | 32640                                  | CTT             |
| 115 | Preamplifier  | ACO/180-3530    | 32641                                  | CTT             |
| 116 | Signal generator  | SMS             | 872166/039                             | Rohde & Schwarz |
| 117 | Signal generator  | HP 8673 D       | 2930A00966                             | Hewlett Packard |
| 118 | Waveform generator  | HP 33120 A      | US34005375                             | Hewlett Packard |
| 119 | UHF attenuator set  | DPU             | 300771/075                             | Rohde & Schwarz |
| 120 | UHF attenuator set  | DPU             | 300788/006                             | Rohde & Schwarz |
| 121 | Attenuator  | 4776-10         | 9412                                   | Narda           |
| 122 | Attenuator  | 4776-20         | 9503                                   | Narda           |
| 123 | Pulse limiter   | ESH 3-Z2        | 1144                                   | Rohde & Schwarz |
| 124 | Pulse limiter   | 11947 A         | 3107A00566                             | Hewlett Packard |
| 125 | V-network   | ESH 3-Z5        | 862770/018                             | Rohde & Schwarz |
| 126 | V-network   | ESH 3-Z5        | 894785/005                             | Rohde & Schwarz |
| 127 | V-network   | ESH 3-Z5        | 830952/025                             | Rohde & Schwarz |
| 128 | V-network   | ESH 3-Z6        | 830722/010                             | Rohde & Schwarz |
| 129 | V-network   | NSLK 8127       | 8127152                                | Schwarzbeck     |
| 130 | Artificial mains network  | ESH 2-Z5        | 842966/004                             | Rohde & Schwarz |
| 131 | T-network   | ESH 3-Z4        | 890602/011                             | Rohde & Schwarz |
| 132 | T-network   | ESH 3-Z4        | 890602/012                             | Rohde & Schwarz |

## Test Equipment and Ancillaries used for Emission Tests (continued)

| No. | Instrument/Ancillary         | Type     | Serial Number | Manufacturer        |
|-----|------------------------------|----------|---------------|---------------------|
| 134 | High impedance probe         | TK 9416  | 01            | Schwarzbeck         |
| 135 | High impedance probe         | TK 9416  | 02            | Schwarzbeck         |
| 136 | Current probe                | ESH 2-Z1 | 863366/18     | Rohde & Schwarz     |
| 137 | Current probe                | ESV-Z1   | 862553/3      | Rohde & Schwarz     |
| 138 | Absorbing clamp              | MDS 21   | 80911         | Lüthi               |
| 139 | Absorbing clamp              | MDS 21   | 79690         | Lüthi               |
| 140 | Loop antenna                 | HFH2-Z2  | 882964/1      | Rohde & Schwarz     |
| 141 | Biconical antenna            | HK 116   | 836239/02     | Rohde & Schwarz     |
| 142 | Biconical antenna            | HK 116   | 842204/001    | Rohde & Schwarz     |
| 143 | Log. periodic antenna        | HL 223   | 834408/12     | Rohde & Schwarz     |
| 144 | Log. periodic antenna        | HL 223   | 841516/023    | Rohde & Schwarz     |
| 145 | Horn antenna 1 - 18 GHz      | 3115     | 9508-4553     | Emco                |
| 146 | Horn antenna 1.7 - 2.6 GHz   | 3160-03  | 9112-1003     | Emco                |
| 147 | Horn antenna 2.6 - 3.95 GHz  | 3160-04  | 9112-1001     | Emco                |
| 148 | Horn antenna 3.95 - 5.85 GHz | 3160-05  | 9112-1001     | Emco                |
| 149 | Horn antenna 5.85 - 8.2 GHz  | 3160-06  | 9112-1001     | Emco                |
| 150 | Horn antenna 8.2 - 12.4 GHz  | 3160-07  | 9112-1008     | Emco                |
| 151 | Horn antenna 12.4 - 18 GHz   | 3160-08  | 9112-1002     | Emco                |
| 152 | Horn antenna 18 - 26.5 GHz   | 3160-09  | 9403-1025     | Emco                |
| 152 | Horn Antenna 26.5 - 40 GHz   | 3160-10  | 9704-1047     | Emco                |
| 153 | Stub tuner                   | 904N     | 04            | Narda               |
| 154 | Mains analyzer               | DPA 503  | 496 - 02      | EM Test             |
| 155 | Controller                   | HIS 500  | X71010        | EM Test             |
| 156 | AC Amplifier                 | ACS 500  | HK51736       | EM Test             |
| 157 | Mains impedance              | AIF 500  | X71062        | EM Test             |
| 158 | Dual Directional Coupler     | 778D     | 0826A01562    | Hewlett Packard     |
| 159 | Data Analyzer                | DA-10    | J-0048        | Wandel & Goltermann |

## Test Equipment and Ancillaries used for Immunity Tests

| No. | Type                    | Model            | Serial Number            | Manufacturer       |
|-----|-------------------------|------------------|--------------------------|--------------------|
| 201 | ESD simulator           | NSG 435          | 000290                   | Schaffner          |
| 202 | EFT generator           | NSG 1025         | 3020                     | Schaffner          |
| 203 | Ultra compact simulator | UCS              | 1195-30                  | EM Test            |
| 204 | Coupling clamp          | CDN 8014         | 131                      | Schaffner          |
| 205 | Coupling clamp          | SL 400-071D      | 007                      | Schaffner          |
| 206 | Coupling filter         | FP 16            | 080554-14-84             | Haefely            |
| 207 | Oscilloscope            | 2225             | 203550                   | Tektronix          |
| 208 | Signal generator        | SMT 03           | 838129/029<br>837533/032 | Rohde & Schwarz    |
| 209 | Power amplifier         | 150 L            | 8835                     | Amplifier Research |
| 210 | Power amplifier         | 200 W 1000       | 12904                    | Amplifier Research |
| 211 | Power meter             | NRVS             | 838624/016               | Rohde & Schwarz    |
| 212 | E-field generator       | 3107 B           | 2302                     | Emco               |
| 213 | Biconical antenna       | VHBA 9123        | 1018                     | Schwarzbeck        |
| 214 | Log. periodic antenna   | AT 1080          | 12834                    | Amplifier Research |
| 215 | Isotropic field probe   | FP 2000          | 12847                    | Amplifier Research |
| 216 | Isotropic field monitor | FM 2004          | 12632                    | Amplifier Research |
| 217 | Ultra compact simulator | UCS              | 1195-30                  | EM Test            |
| 218 | Surge generator         | NSG 650          | 1679204                  | Schaffner          |
| 219 | Coupling network        | CDN 110          | 1649135                  | Schaffner          |
| 220 | Coupling network        | CDN 115          | 132                      | Schaffner          |
| 221 | Dropping resistor       | INA 110-40       | 121                      | Schaffner          |
| 222 | Oscilloscope            | HM 408           | 9005 F 3144              | Hameg              |
| 223 | Signal generator        | SMX              | 883184/018               | Rohde & Schwarz    |
| 224 | Power amplifier         | 411 LA           | 299                      | ENI                |
| 225 | Power amplifier         | HVV 250          | 836956/004               | Rohde & Schwarz    |
| 226 | Power meter             | NRV              | 863825/018               | Rohde & Schwarz    |
| 227 | Coupling network        | FCC - 801- M3-25 | 117                      | FCC                |
| 228 | Coupling network        | FCC - 801- M4-25 | 17                       | FCC                |
| 229 | Coupling network        | FCC - 801- M5-25 | 16                       | FCC                |
| 230 | Coupling network        | FCC - 801- AF4   | 47                       | FCC                |
| 231 | Coupling network        | FCC - 801- AF4   | 48                       | FCC                |
| 232 | Coupling network        | FCC - 801-T4     | 68                       | FCC                |
| 233 | Coupling network        | FCC - 801- C1    | 64                       | FCC                |
| 234 | Coupling network        | CDN 801-M3       | --                       | Senton             |
| 235 | Coupling network        | CDN 801-S37      | --                       | Senton             |
| 236 | Current clamp           | FCC-120-9B       | 15                       | FCC                |
| 237 | EM injection clamp      | EM 101           | 35354                    | Lüthi              |
| 238 | Ultra compact simulator | UCS 500          | 1195-30                  | EM Test            |
| 239 | Transformer             |                  |                          | Senton             |
| 240 | Oscilloscope            | 54602B           | US35060304               | Hewlett Packard    |

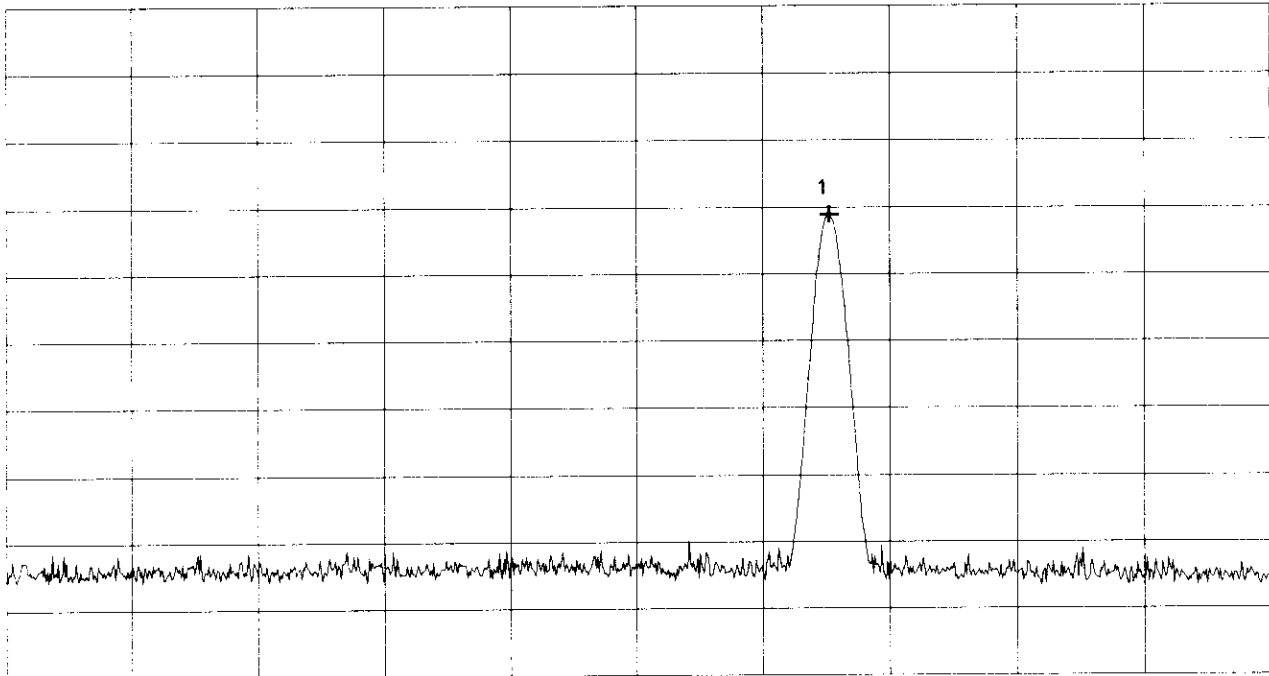
## 10. Charts Taken During Testing

# Radiated Emissions Measurements according to FCC Rules

|                                    |   |
|------------------------------------|---|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>             |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX Mode, Channel 21 (2451.5 MHz)</b>           |
| Applicant:<br><b>Siemens AG</b>    | <b>Horizontal Polarization, Test distance 3 m</b> |
|                                    |   |
|                                    |   |
|                                    |   |

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

|                        |              |                  |
|------------------------|--------------|------------------|
| **** Multi Marker **** |              |                  |
| Nr.1                   | 2.452178 GHz | 61.48 dB $\mu$ V |
| Nr.2                   |              |                  |
| Nr.3                   |              |                  |
| Nr.4                   |              |                  |
| Nr.5                   |              |                  |
| Nr.6                   |              |                  |
| Nr.7                   |              |                  |
| Nr.8                   |              |                  |

Tested by: \_\_\_\_\_

Project-No.: \_\_\_\_\_

Date: \_\_\_\_\_

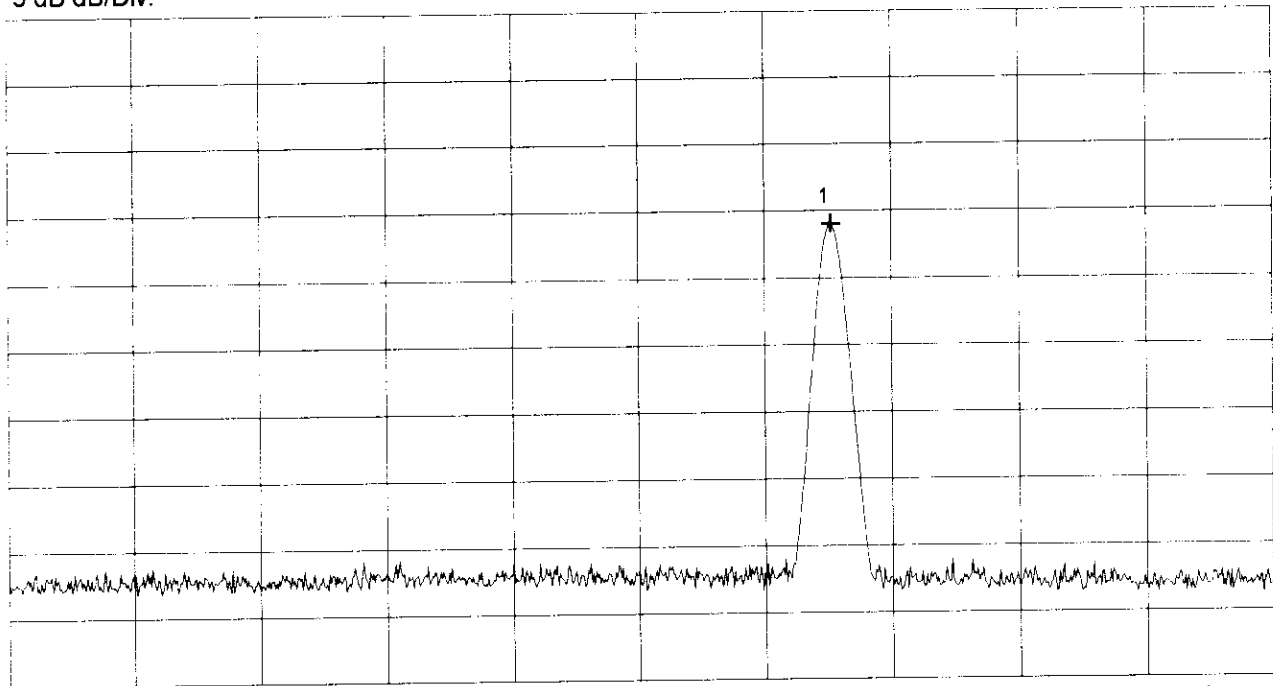


# Radiated Emissions Measurements according to FCC Rules

|                                    |   |
|------------------------------------|---|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>           |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX Mode, Channel 21 (2451.5 MHz)</b>         |
| Applicant:<br><b>Siemens AG</b>    | <b>Vertical Polarization, Test distance 3 m</b> |
|                                    |   |
|                                    |   |
|                                    |   |

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
|      | -----        |                  |
| Nr.1 | 2.452178 GHz | 61.06 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

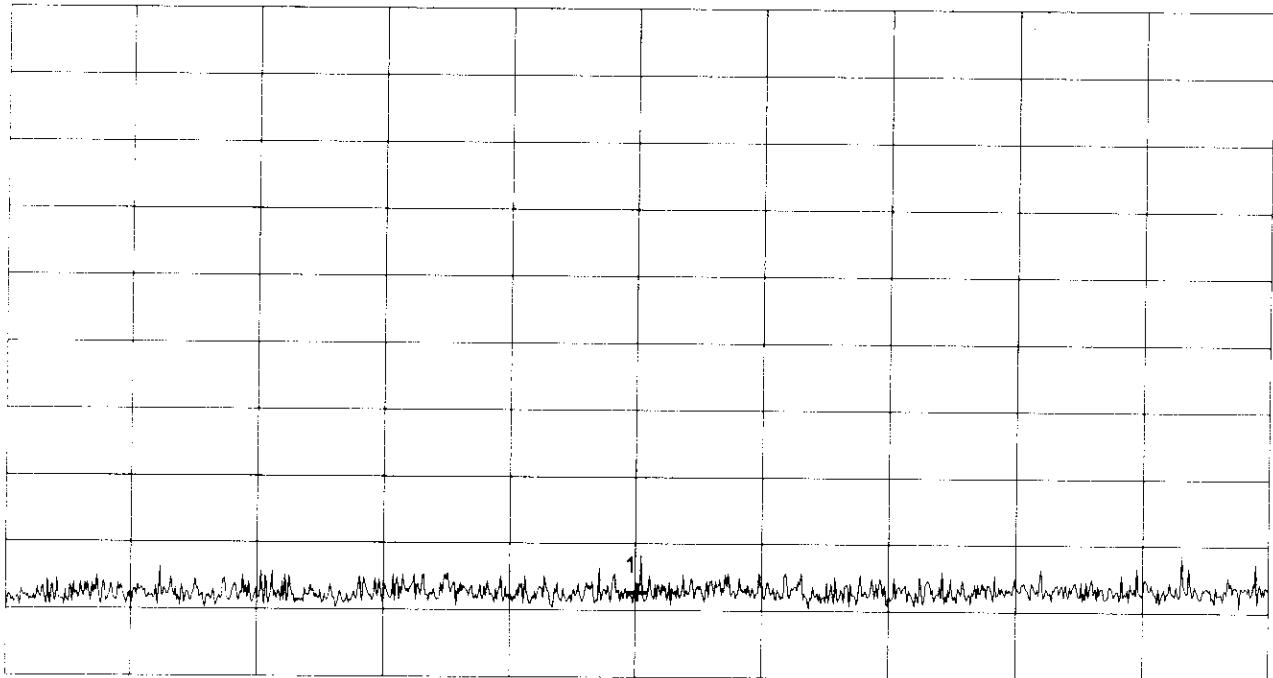
Mode:  
Supply voltage 5 V DC

TX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 3.38 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

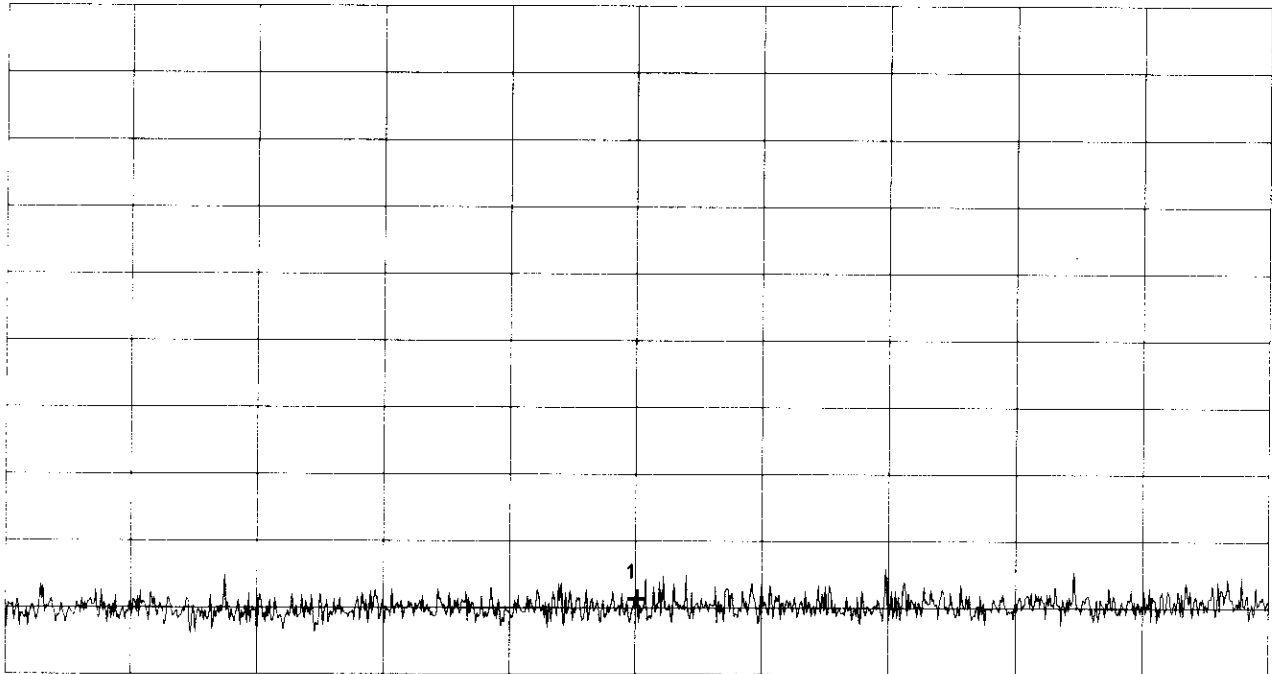
Mode:  
Supply voltage 5 V DC

TX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 2.67 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Date:

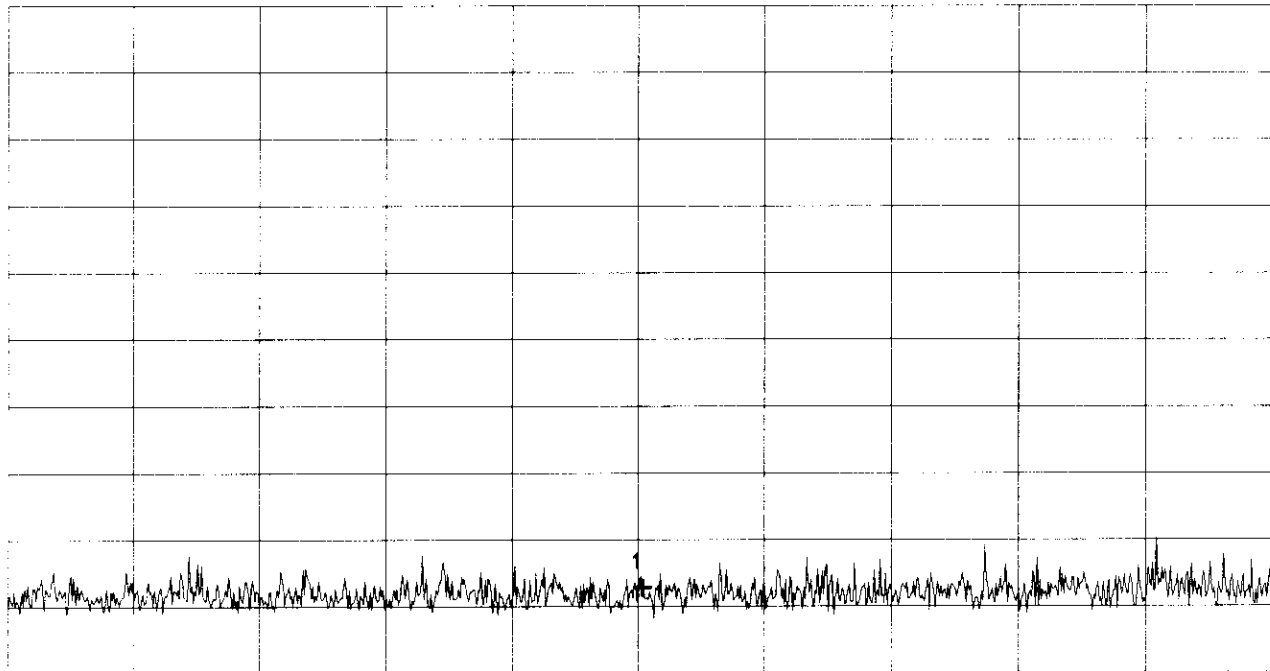
Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>        |
| Serial No.:<br><b>Sample No. 1</b> | TX mode, channel 21 (2451.5 MHz)             |
| Applicant:<br><b>Siemens AG</b>    | Test distance 3 m<br>Horizontal polarization |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|  |                                |                                 |
|--|--------------------------------|---------------------------------|
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br><b>652.333333 MHz</b> | <b>3.39 dB<math>\mu</math>V</b> |
|--|--------------------------------|---------------------------------|

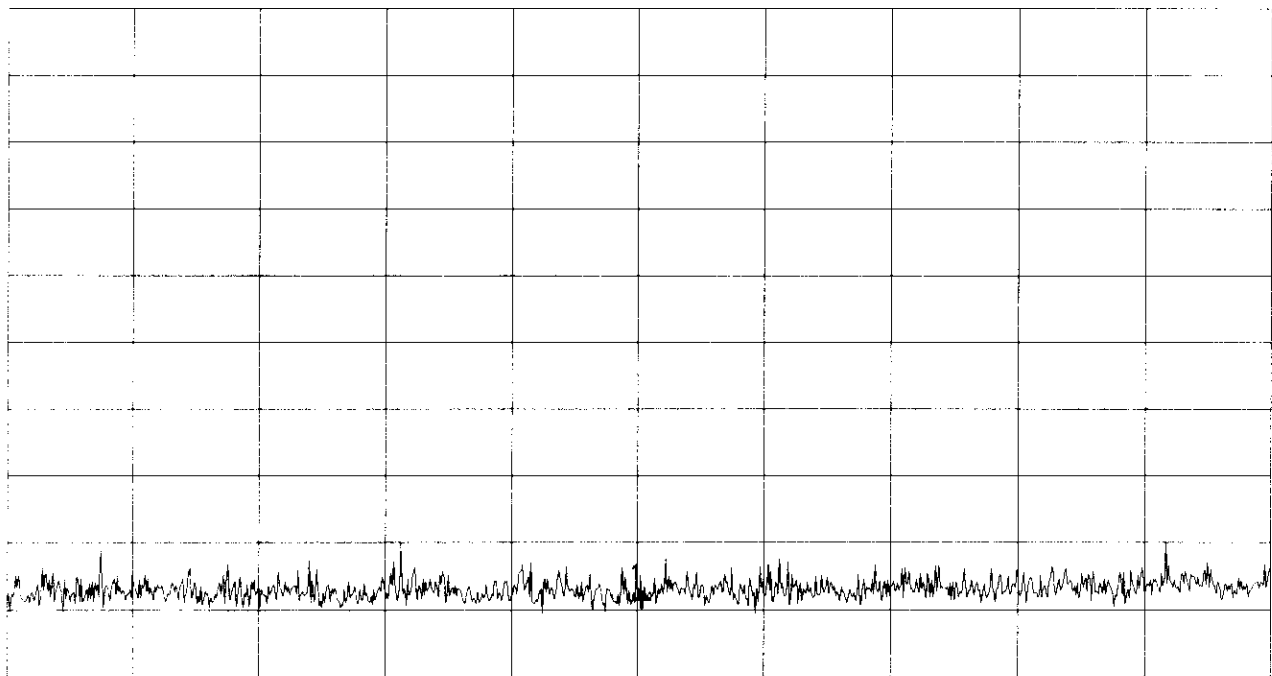
|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| <b>Model:</b><br>SRIF Module       | <b>Mode:</b><br>Supply voltage 5 V DC      |
| <b>Serial No.:</b><br>Sample No. 1 | TX mode, channel 21 (2451.5 MHz)           |
| <b>Applicant:</b><br>Siemens AG    | Test distance 3 m<br>Vertical polarization |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
 5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
 RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
 SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
|      | -----          |                 |
| Nr.1 | 652.333333 MHz | 2.76 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

|                                   |                     |
|-----------------------------------|---------------------|
| <b>Tested by:</b><br>Johann Roidt | <b>Project-No.:</b> |
| <b>Date:</b>                      | Page of pages       |

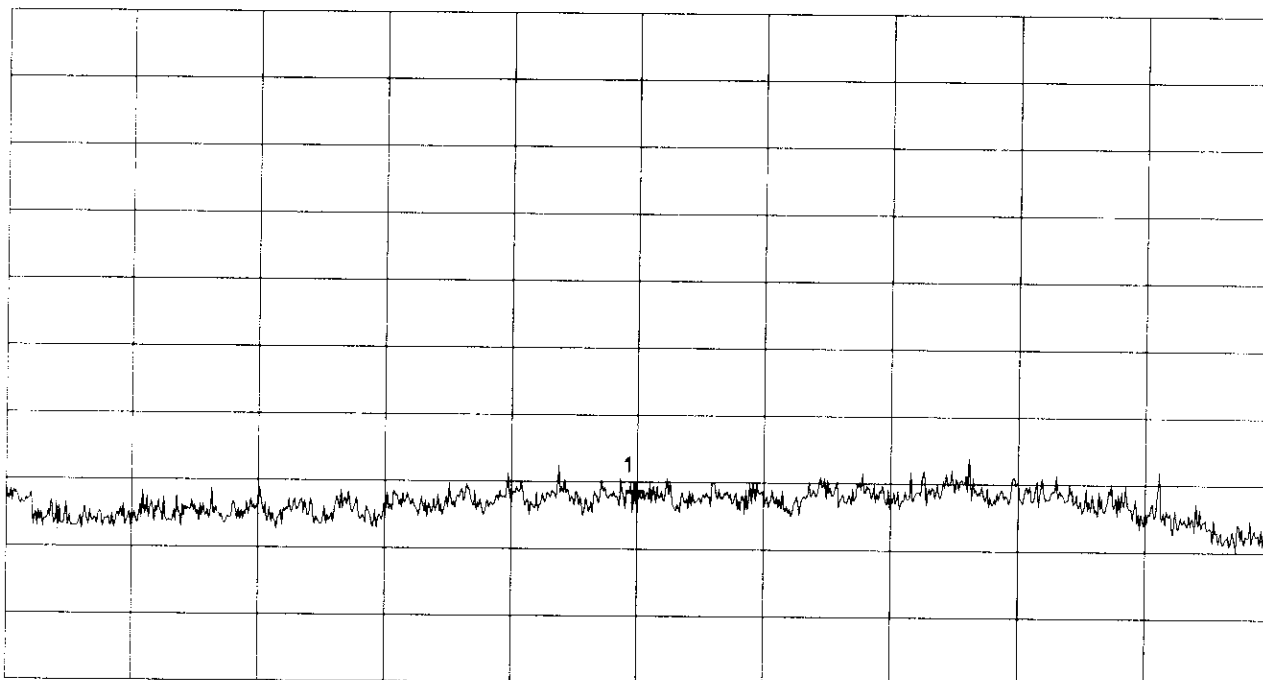
# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX mode, Channel 21 (2451.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 1 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 41.5 dBµV  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |           |
|------|--------------|-----------|
|      | -----        |           |
| Nr.1 | 1.796444 GHz | 5.75 dBµV |
| Nr.2 |              |           |
| Nr.3 |              |           |
| Nr.4 |              |           |
| Nr.5 |              |           |
| Nr.6 |              |           |
| Nr.7 |              |           |
| Nr.8 |              |           |

Tested by:  
**Johann Roidt**

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

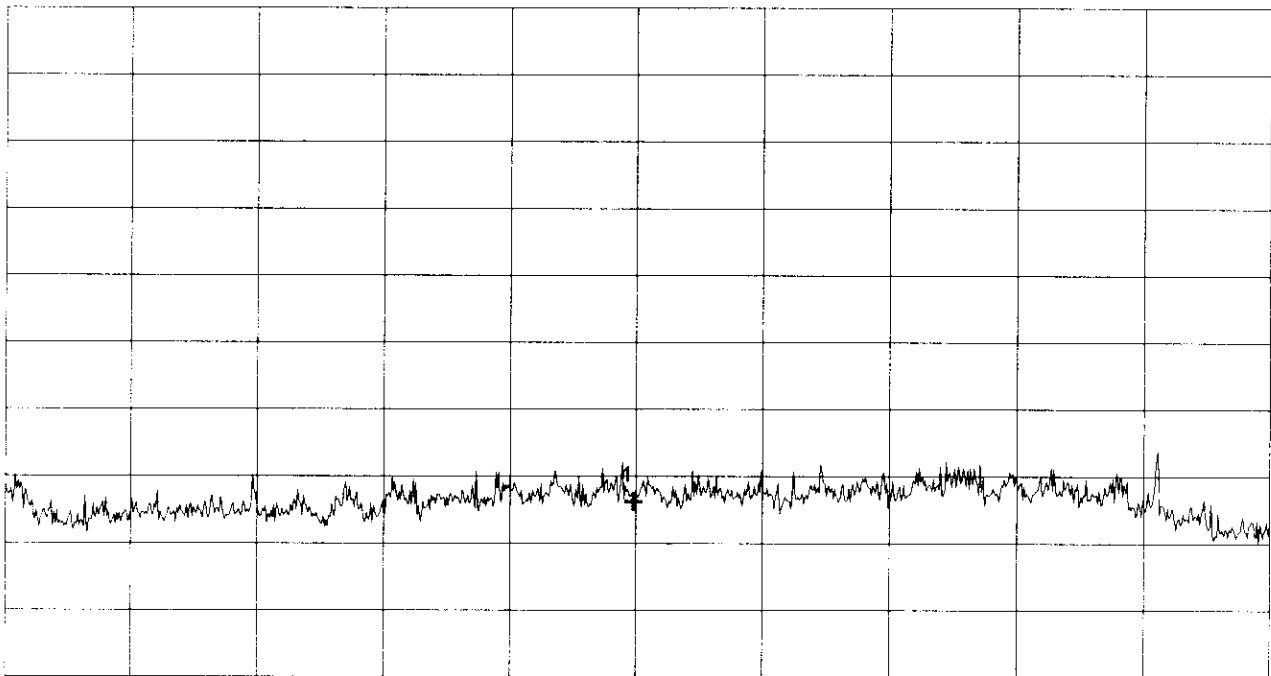
TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 1.796444 GHz | 4.63 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

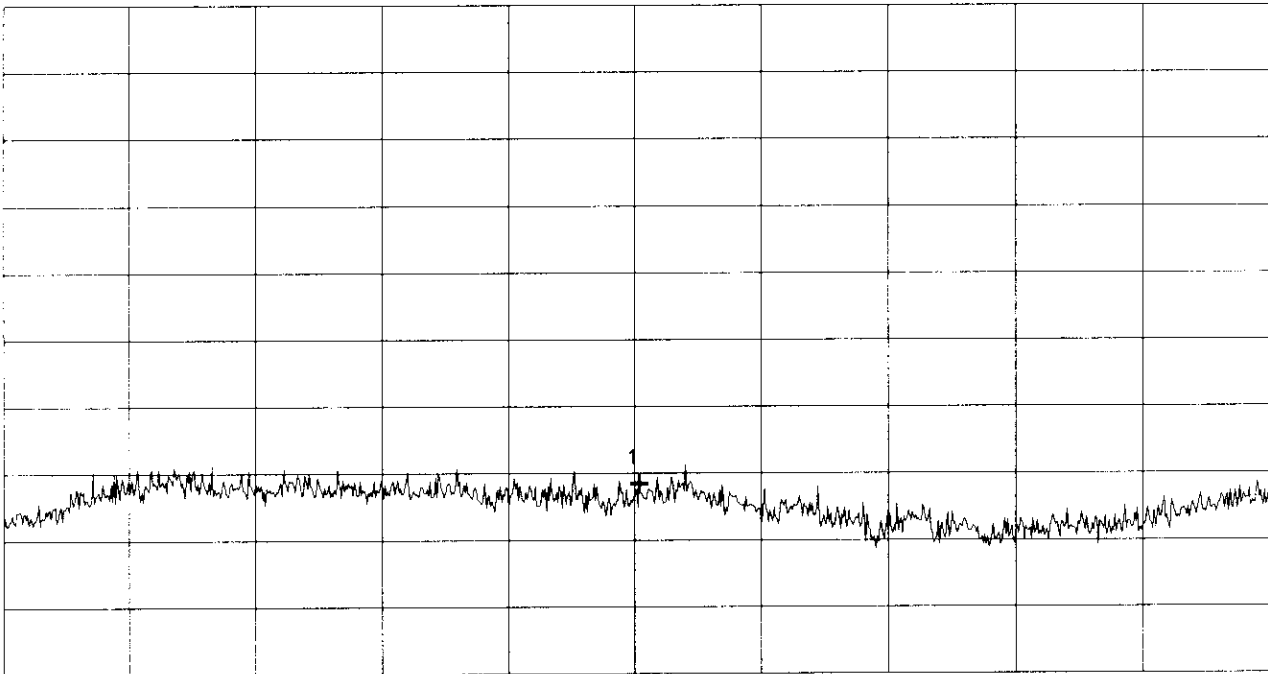
# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX mode, Channel 21 (2451.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 1 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    | <b>Noch Filter on TX Frequency</b>                       |

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
|      | -----        |                 |
| Nr.1 | 3.279500 GHz | 5.73 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |





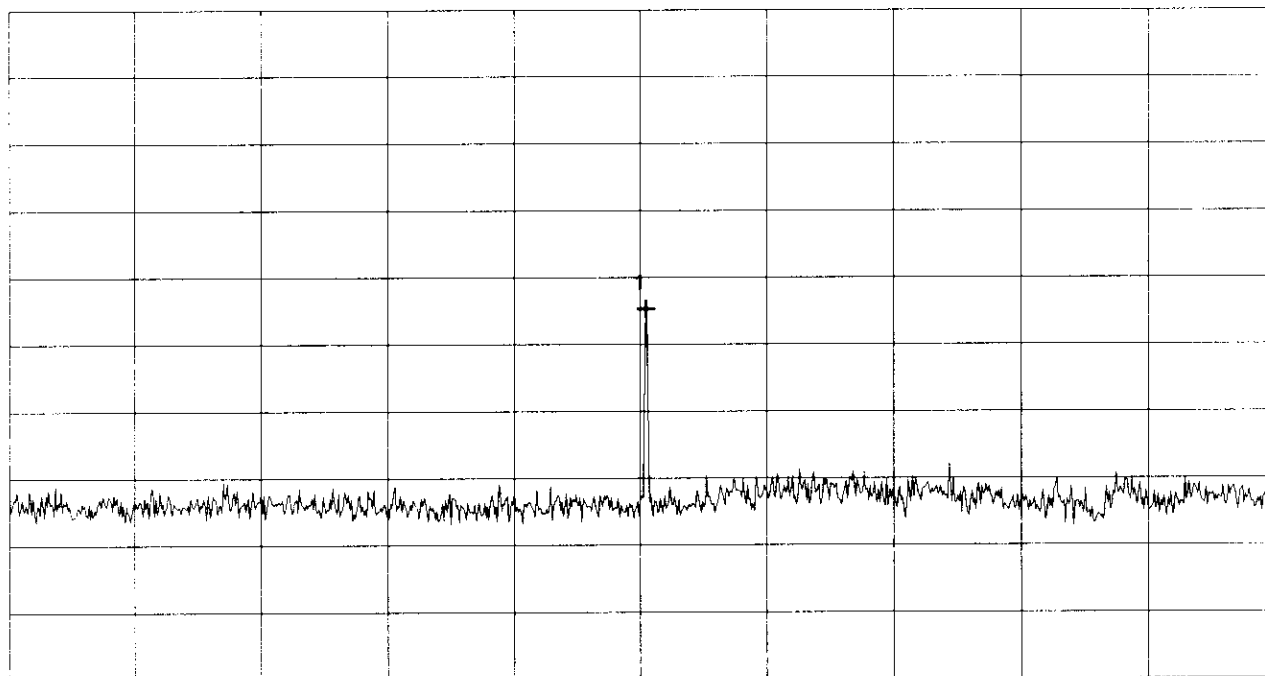
# Radiated Emissions Measurement acc. to FCC Rules

|                              |  |
|------------------------------|--|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br>Sample No. 1  | TX mode, Channel 21 (2451.5 MHz)           |
| Applicant:<br>Siemens AG     | Test distance 1 m<br>Vertical Polarization |
|                              | Noch Filter on TX Frequency                |
|                              |  |
|                              |  |

Ref.Level 41.5 dBµV  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |            |
|------|--------------|------------|
|      | -----        |            |
| Nr.1 | 4.908444 GHz | 19.15 dBµV |
| Nr.2 |              |            |
| Nr.3 |              |            |
| Nr.4 |              |            |
| Nr.5 |              |            |
| Nr.6 |              |            |
| Nr.7 |              |            |
| Nr.8 |              |            |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 21 (2451.5 MHz)

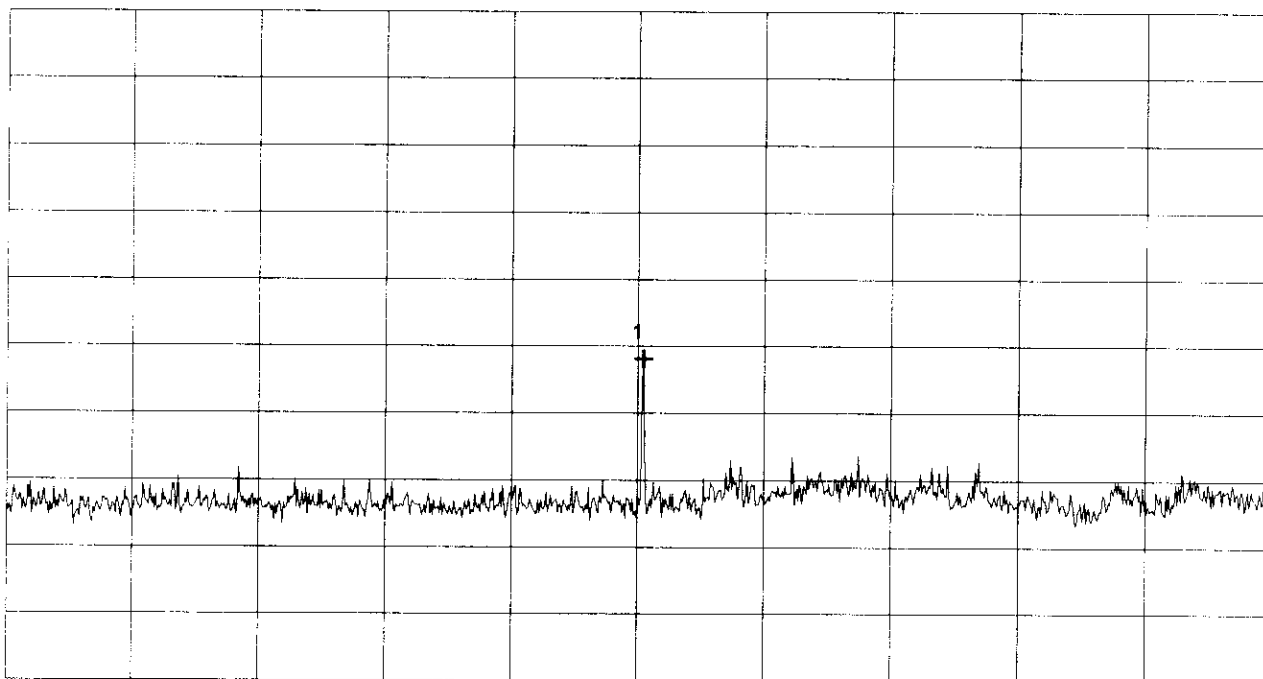
Test distance 1 m  
Horizontal Polarization

Noch Filter on TX Frequency

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 4.908444 GHz | 15.53 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

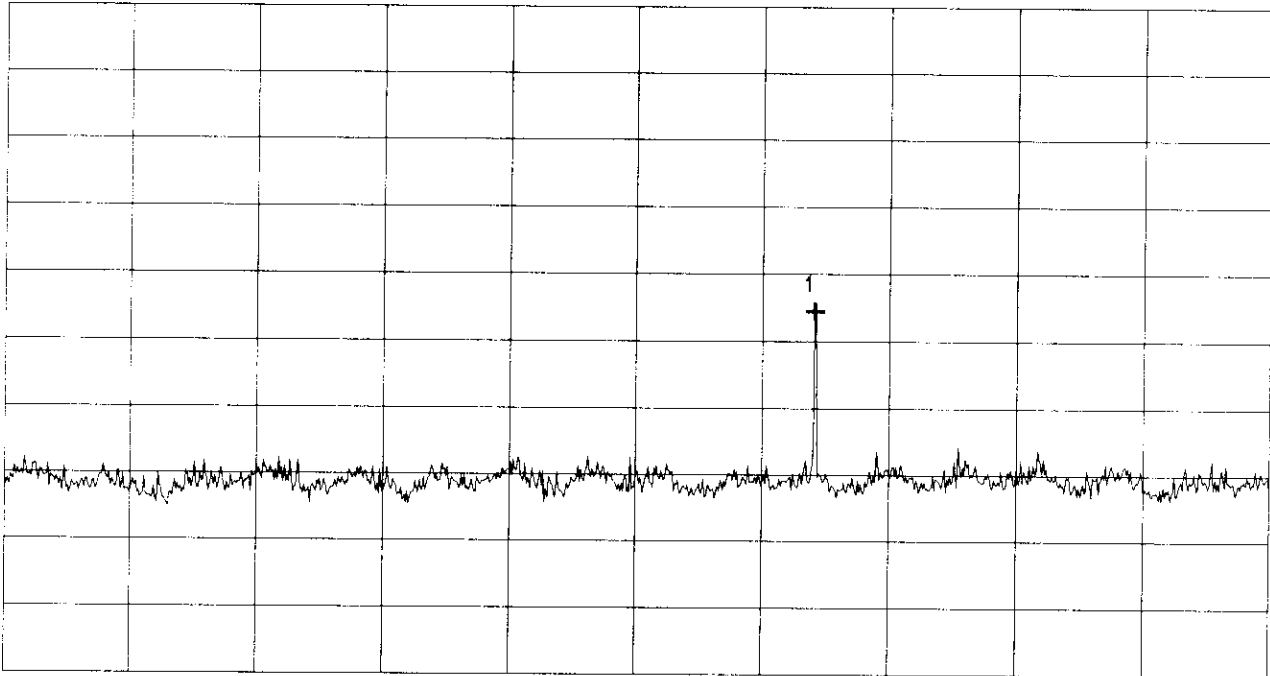
TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 7.356611 GHz | 18.74 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

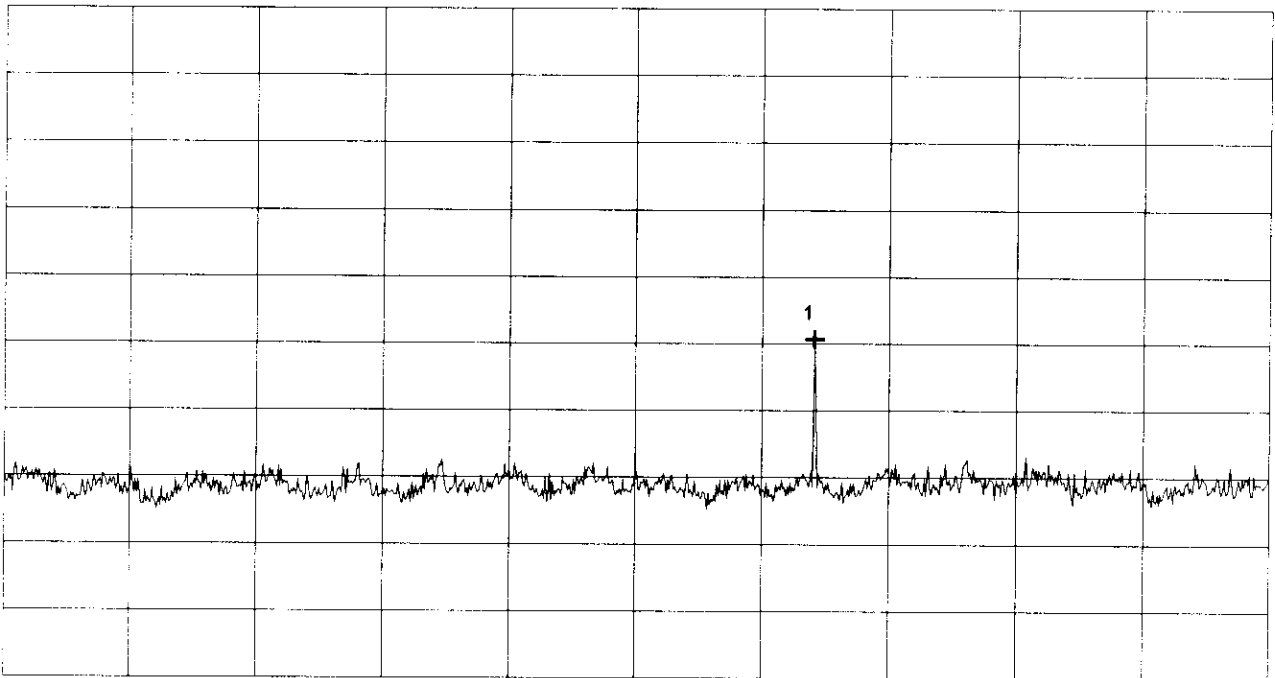
|                             |
|-----------------------------|
| Model:<br>SRIF Module       |
| Serial No.:<br>Sample No. 1 |
| Applicant:<br>Siemens AG    |
|                             |
|                             |
|                             |
|                             |

|  |
|--|
| Mode:<br>Supply voltage 5 V DC               |
| TX mode, Channel 21 (2451.5 MHz)             |
| Test distance 1 m<br>Horizontal Polarization |

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Amplitude (dB $\mu$ V) |
|------|-----------------|------------------------|
| Nr.1 | 7.356611        | 16.84                  |
| Nr.2 |                 |                        |
| Nr.3 |                 |                        |
| Nr.4 |                 |                        |
| Nr.5 |                 |                        |
| Nr.6 |                 |                        |
| Nr.7 |                 |                        |
| Nr.8 |                 |                        |

Tested by:  
Johann Roidt

Project-No.:

Date:

Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

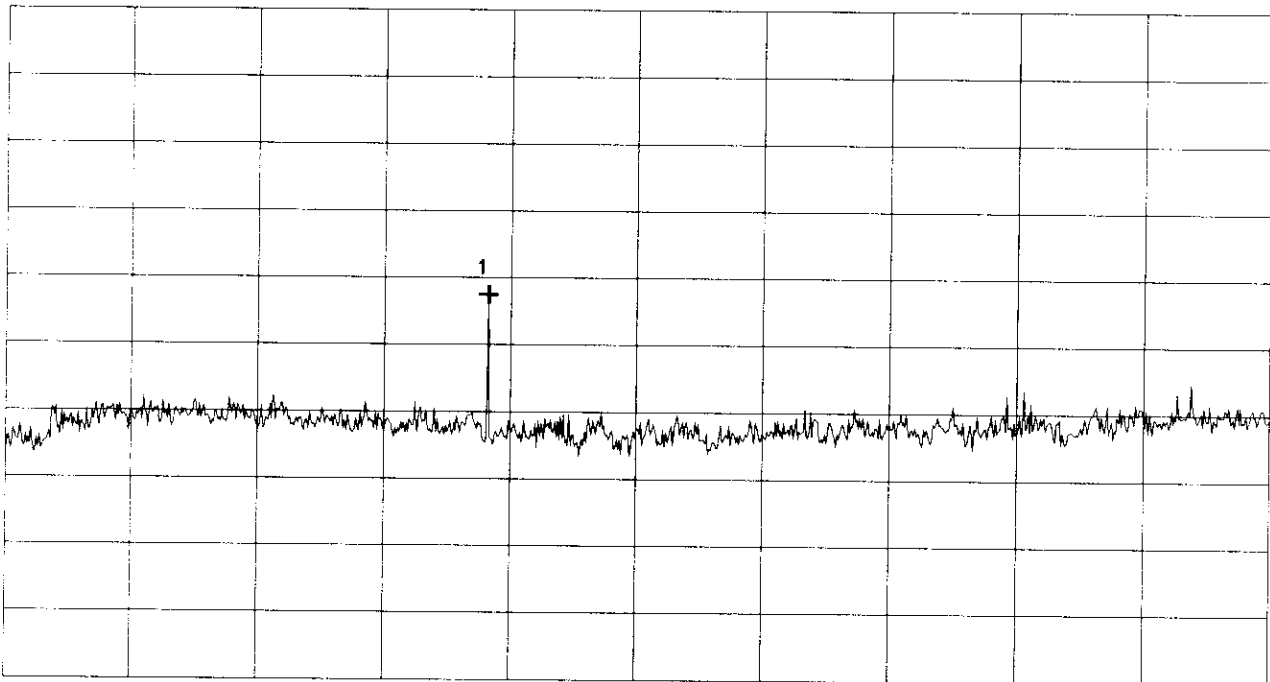
|                             |
|-----------------------------|
| Model:<br>SRIF Module       |
| Serial No.:<br>Sample No. 1 |
| Applicant:<br>Siemens AG    |
|                             |
|                             |
|                             |
|                             |

|  |
|--|
| Mode:<br>Supply voltage 5 V DC             |
| TX mode, Channel 21 (2451.5 MHz)           |
| Test distance 1 m<br>Vertical Polarization |

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 9.805333 GHz | 15.75 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

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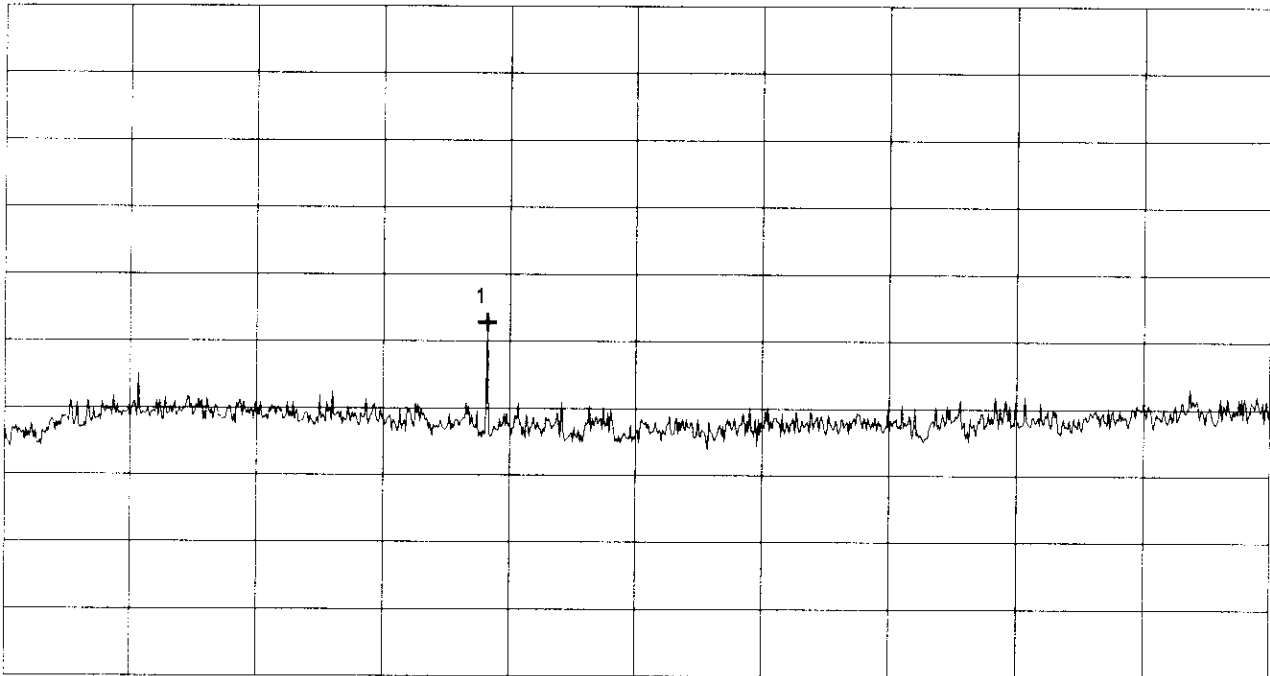
# Radiated Emissions Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC               |
| Serial No.:<br>Sample No. 1 | TX mode, Channel 21 (2451.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 1 m<br>Horizontal Polarization |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 9.805333 GHz | 13.38 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

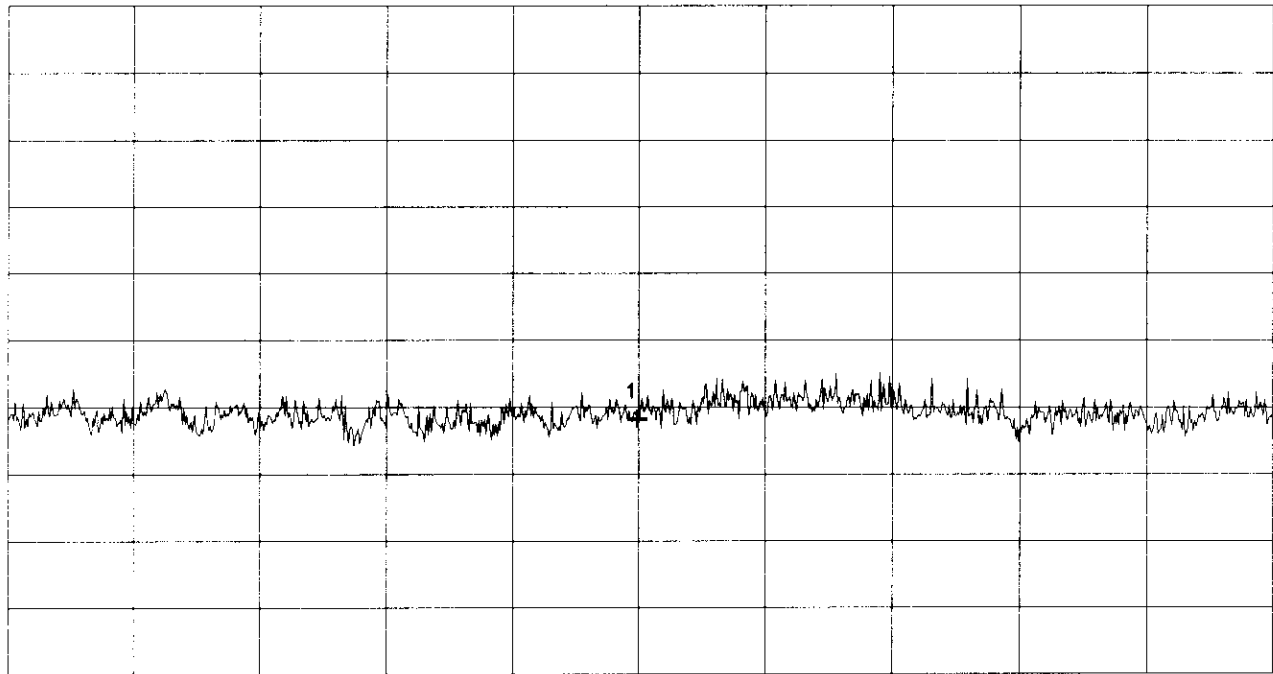
TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 15.193778 GHz | 6.14 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

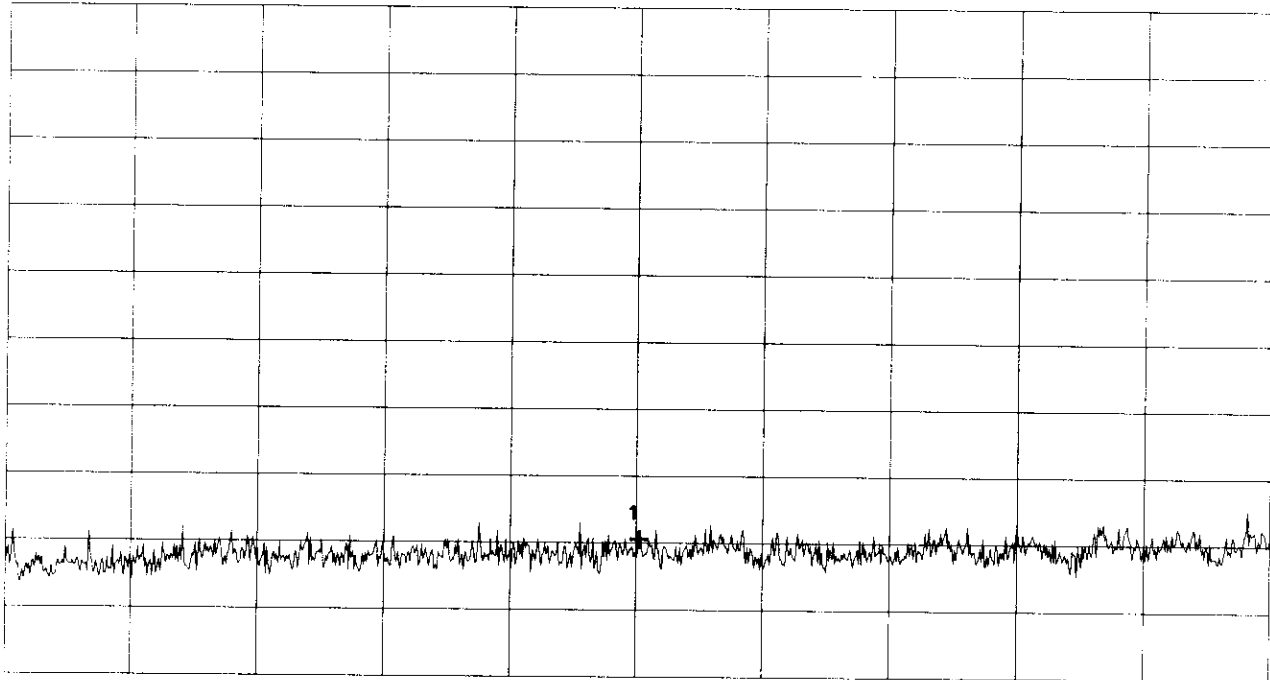


# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| <b>Model:</b><br>SRIF Module       | <b>Mode:</b><br>Supply voltage 5 V DC      |
| <b>Serial No.:</b><br>Sample No. 1 | TX mode, Channel 21 (2451.5 MHz)           |
| <b>Applicant:</b><br>Siemens AG    | Test distance 1 m<br>Vertical Polarization |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
 5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
 RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
 SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 21.515556 GHz | 7.25 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

**Tested by:**  
 Johann Roidt

**Project-No.:**

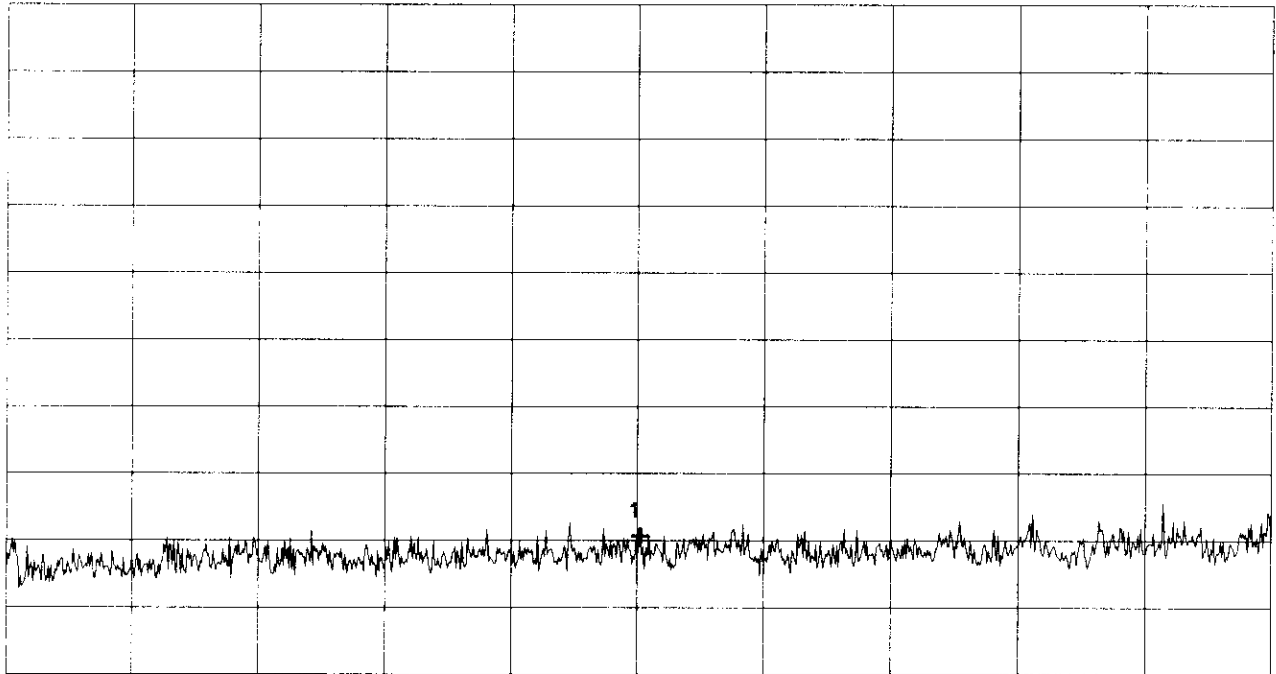
**Date:**

# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX mode, Channel 21 (2451.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 1 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

|                        |               |                 |
|------------------------|---------------|-----------------|
| **** Multi Marker **** |               |                 |
|                        | -----         |                 |
| Nr.1                   | 21.515556 GHz | 7.29 dB $\mu$ V |
| Nr.2                   |               |                 |
| Nr.3                   |               |                 |
| Nr.4                   |               |                 |
| Nr.5                   |               |                 |
| Nr.6                   |               |                 |
| Nr.7                   |               |                 |
| Nr.8                   |               |                 |

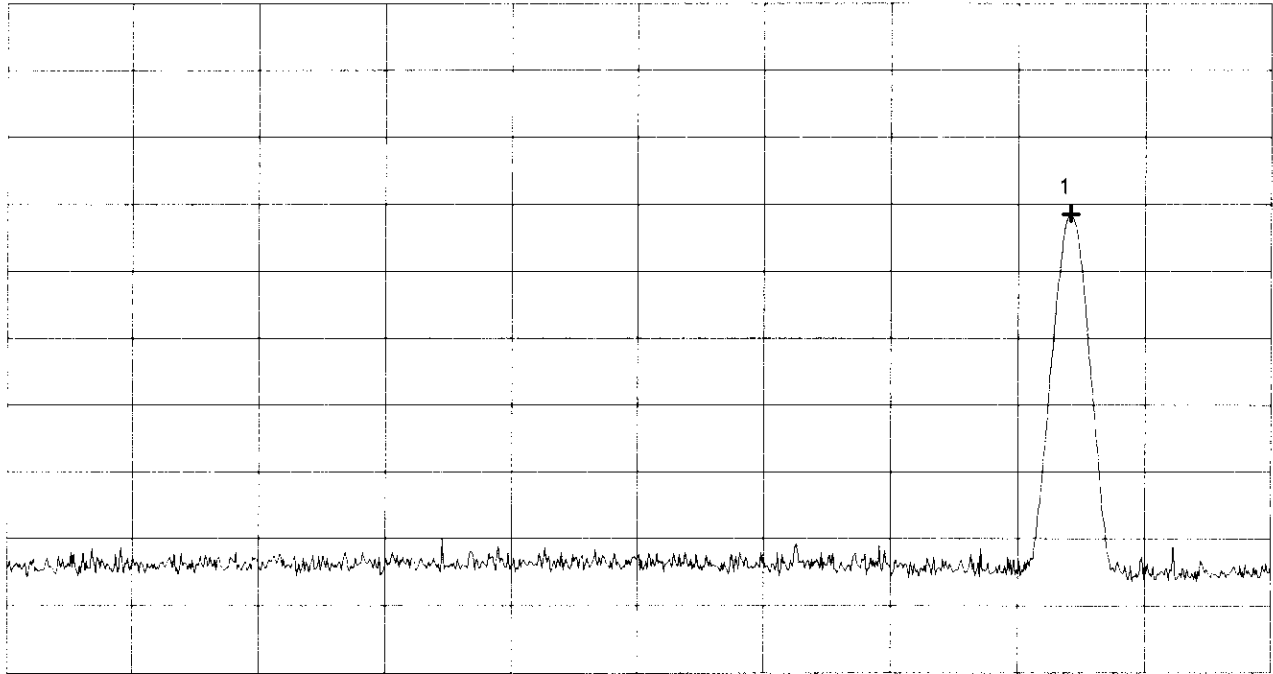
|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emissions Measurements according to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>      |
| Serial No.:<br><b>Sample No. 1</b> | TX Mode, Channel 27 (2466.5 MHz)           |
| Applicant:<br><b>Siemens AG</b>    | Horizontal Polarization, Test distance 3 m |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
|      | -----        |                  |
| Nr.1 | 2.467289 GHz | 61.29 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

|            |               |
|------------|---------------|
| Tested by: | Project-No.:  |
| Date:      | Page of pages |

# Radiated Emissions Measurements according to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

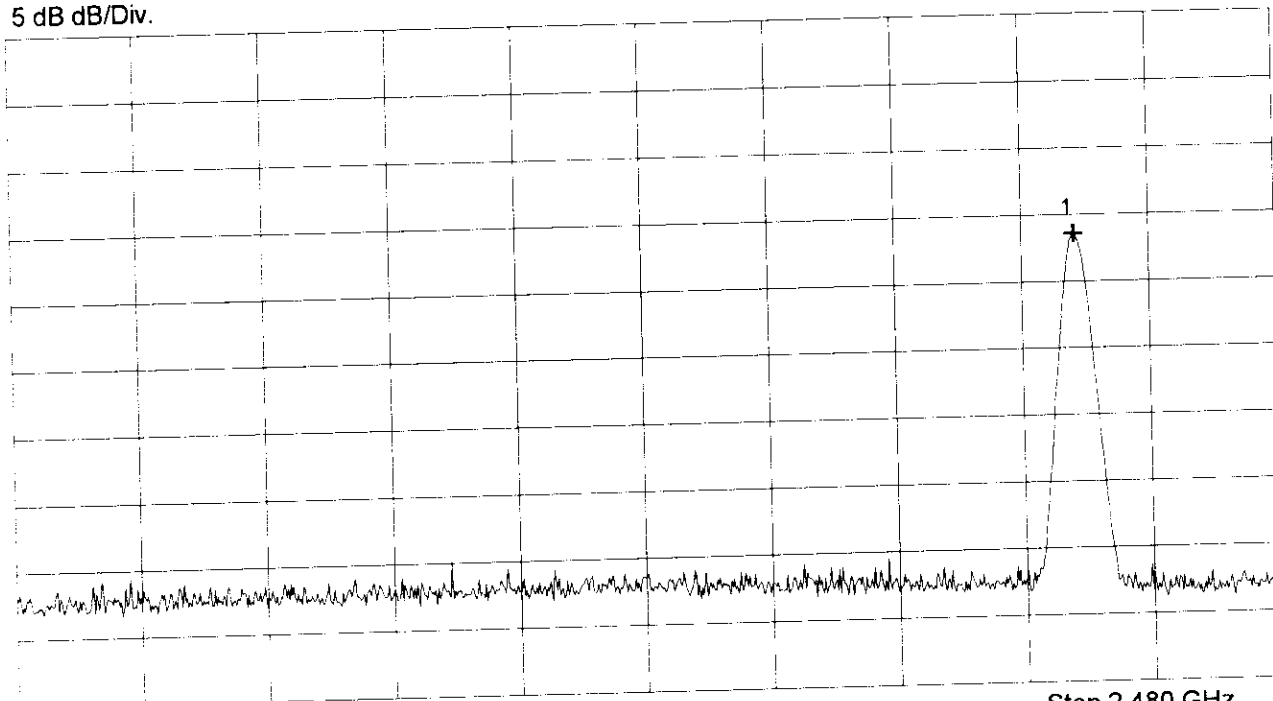
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 27 (2466.5 MHz)

Vertical Polarization, Test distance 3 m

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.467289 GHz | 60.61 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:

Project-No.:

Date:

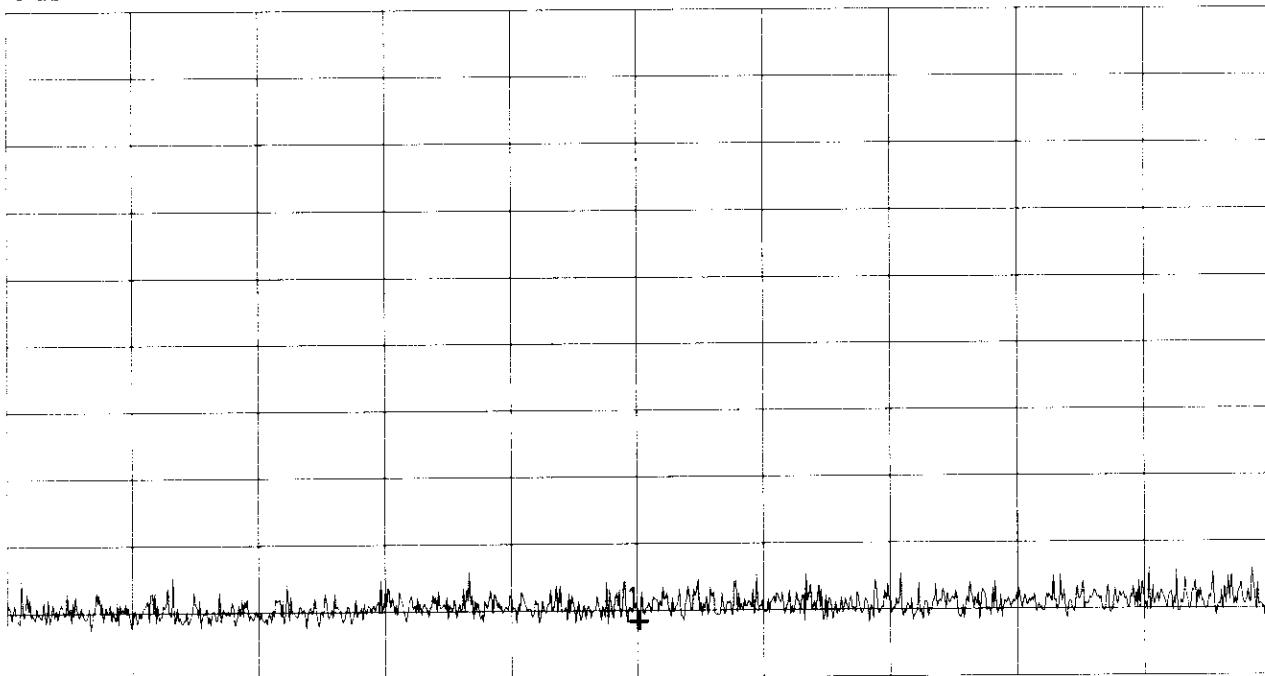
Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX mode, channel 27 (2466.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 1.18 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
**Johann Roidt**

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

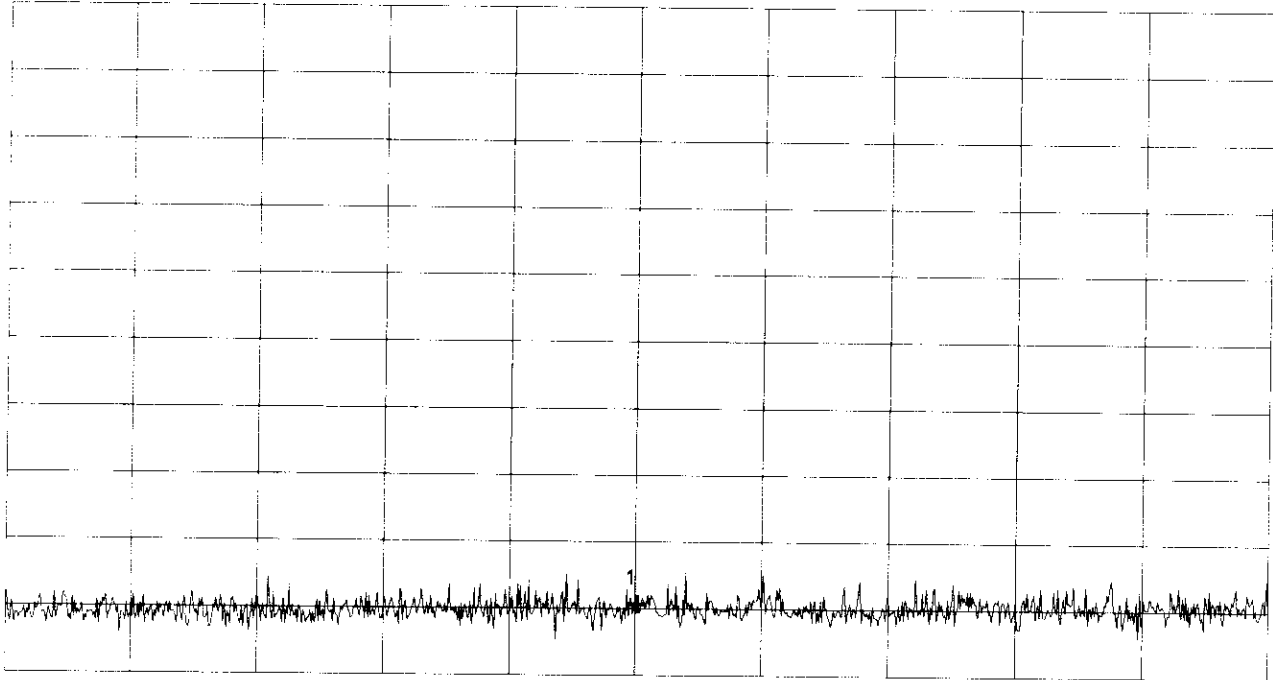
Mode:  
Supply voltage 5 V DC

TX mode, channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 2.31 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

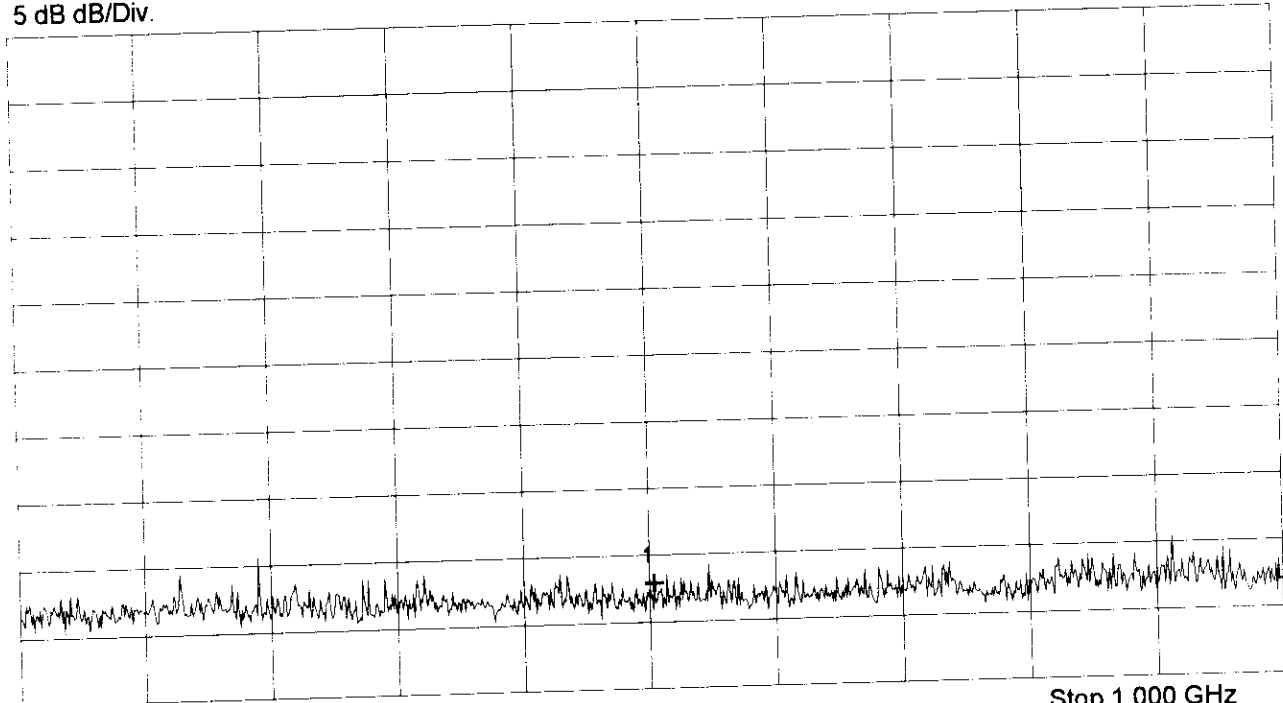
Mode:  
Supply voltage 5 V DC

TX mode, channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 652.333333 MHz | 4.95 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

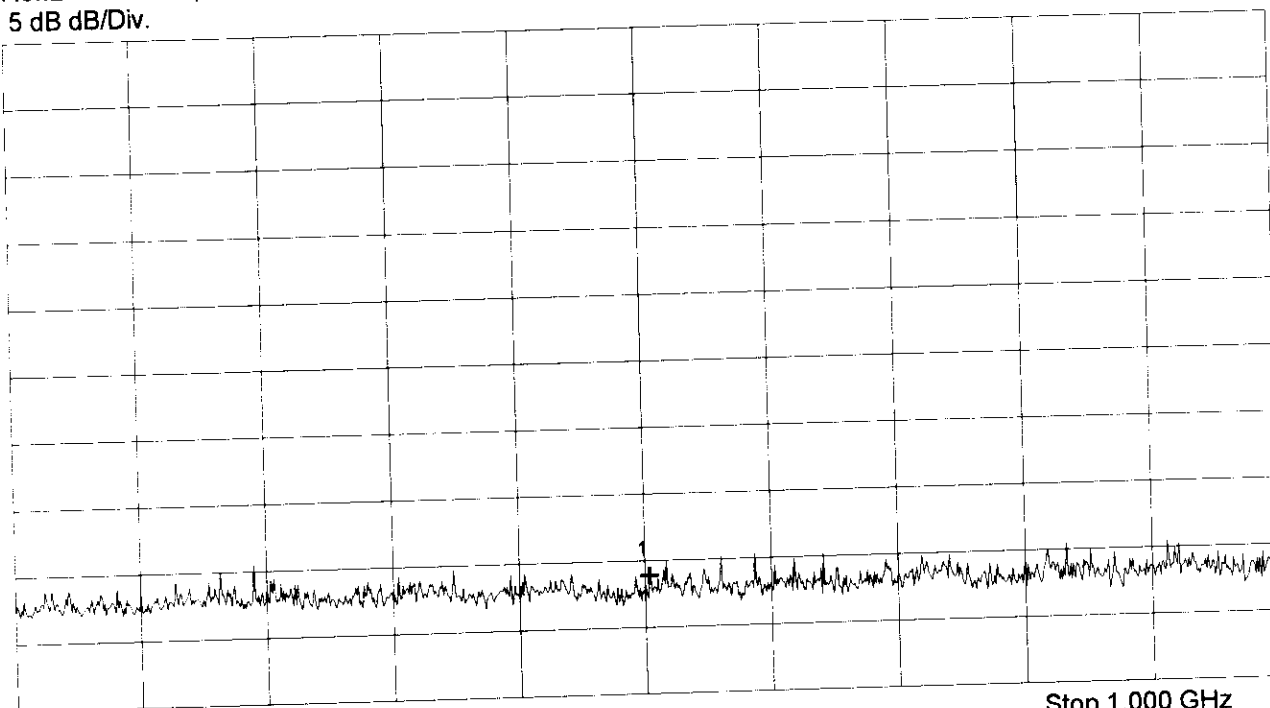
Mode:  
Supply voltage 5 V DC

TX mode, channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

652.333333 MHz

5.87 dB $\mu$ V

Tested by:  
Johann Roidt

Date:

Project-No.:

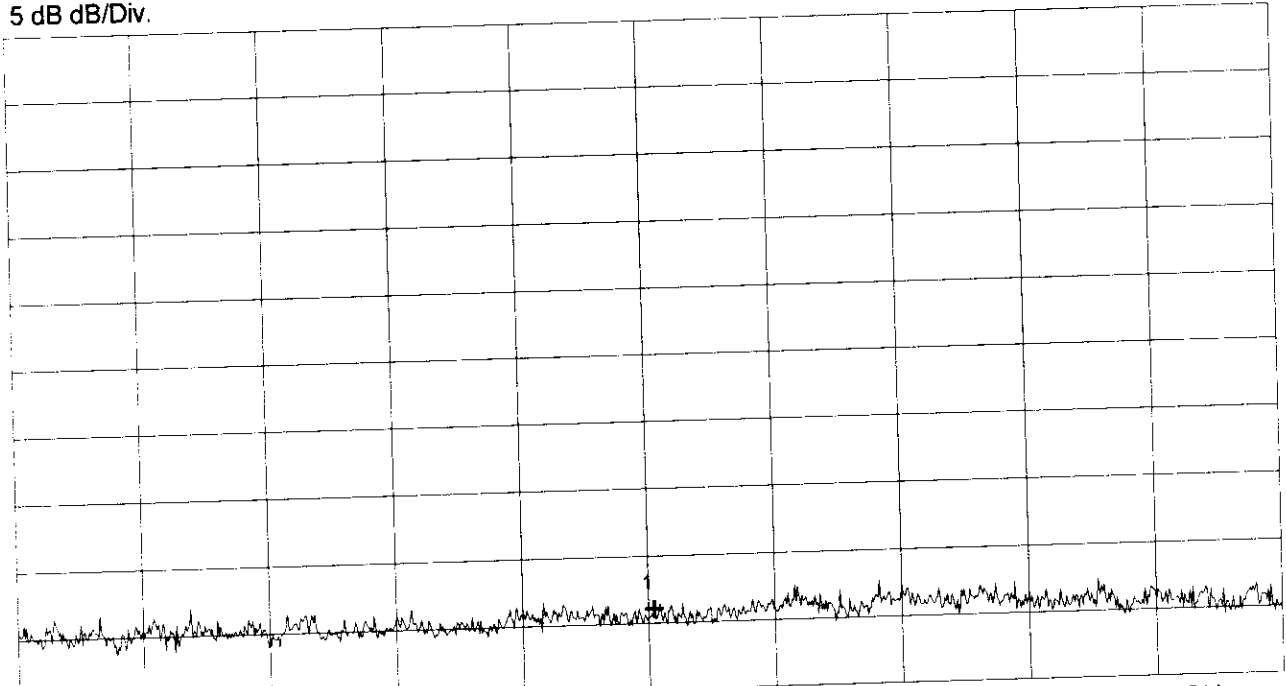


# Radiated Emissions Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC               |
| Serial No.:<br>Sample No. 1 | TX mode, Channel 27 (2466.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Horizontal Polarization |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

|                        |              |                  |
|------------------------|--------------|------------------|
| **** Multi Marker **** |              |                  |
| Nr.1                   | 1.807111 GHz | 18.01 dB $\mu$ V |
| Nr.2                   |              |                  |
| Nr.3                   |              |                  |
| Nr.4                   |              |                  |
| Nr.5                   |              |                  |
| Nr.6                   |              |                  |
| Nr.7                   |              |                  |
| Nr.8                   |              |                  |

|                            |
|----------------------------|
| Tested by:<br>Johann Roidt |
| Date:                      |

|               |
|---------------|
| Project-No.:  |
| Page of pages |

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

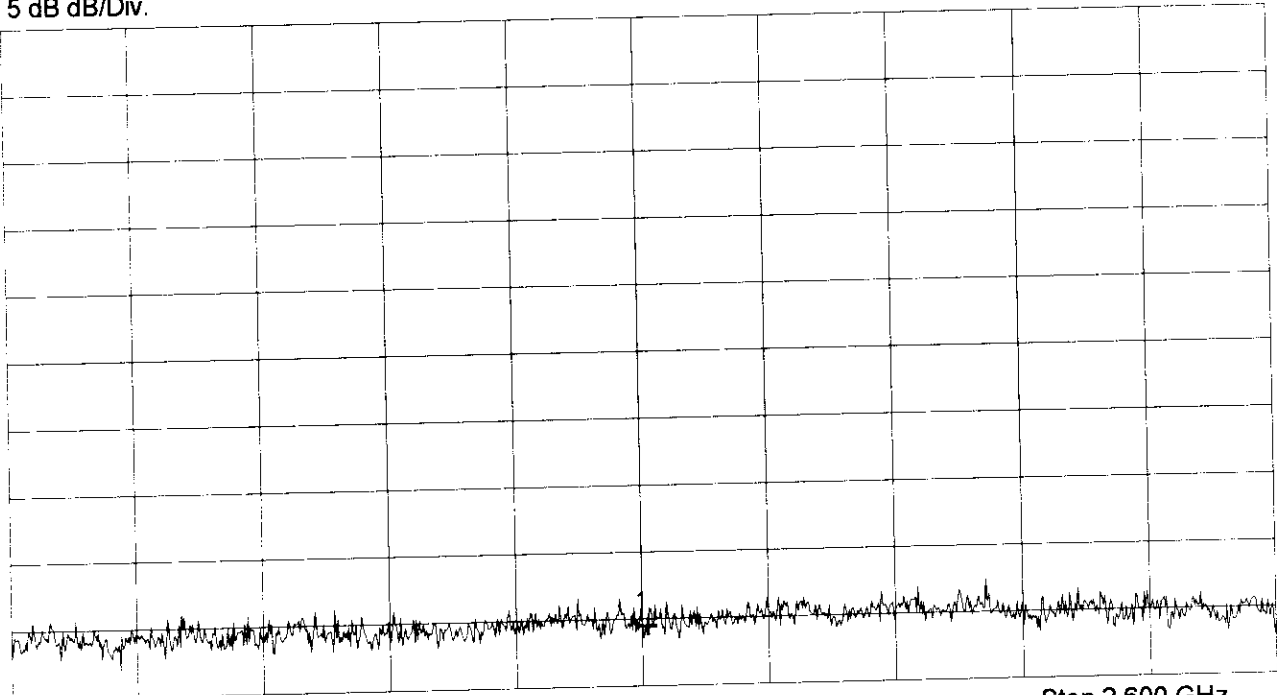
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Notch Filter on TX Frequency

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 1.807111 GHz | 16.44 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 27 (2466.5 MHz)

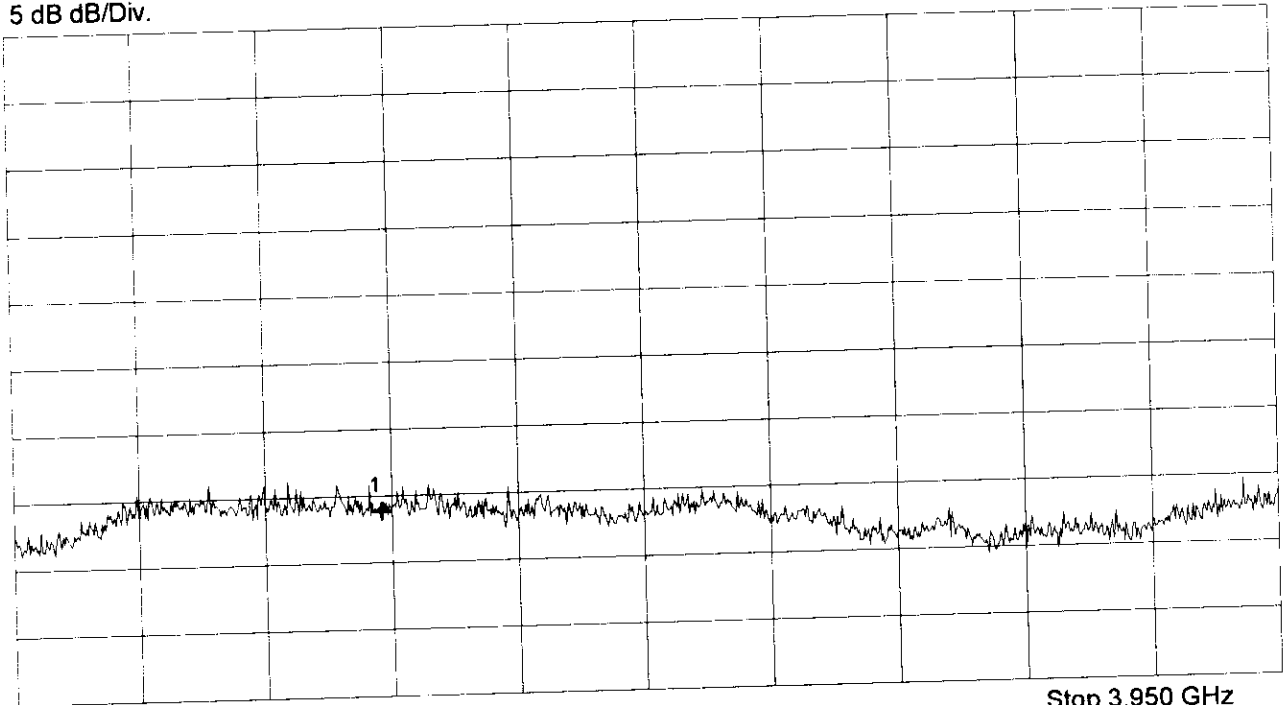
Test distance 3 m  
Vertical Polarization

Notch Filter on TX Frequency

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

Nr.1  
Nr.2  
Nr.3  
Nr.4  
Nr.5  
Nr.6  
Nr.7  
Nr.8

2.994500 GHz

5.34 dB $\mu$ V

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 27 (2466.5 MHz)

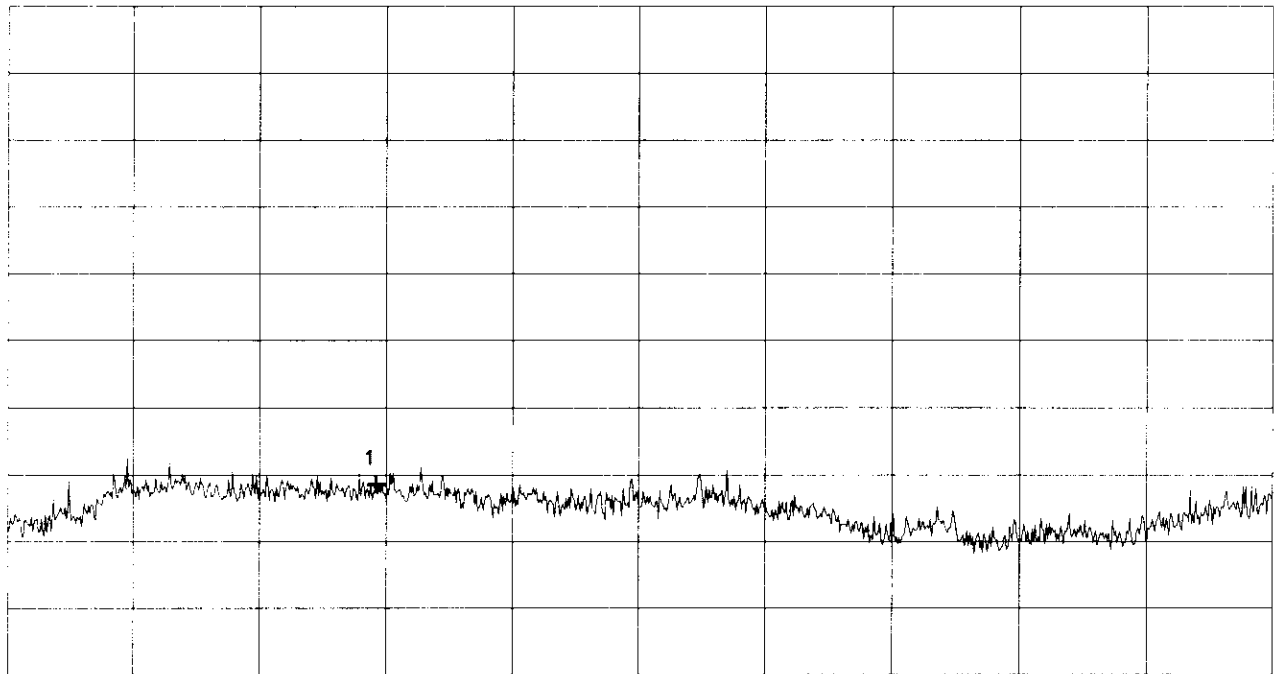
Test distance 3 m  
Horizontal Polarization

Notch Filter on TX Frequency

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
|      | -----        |                 |
| Nr.1 | 2.994500 GHz | 5.79 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

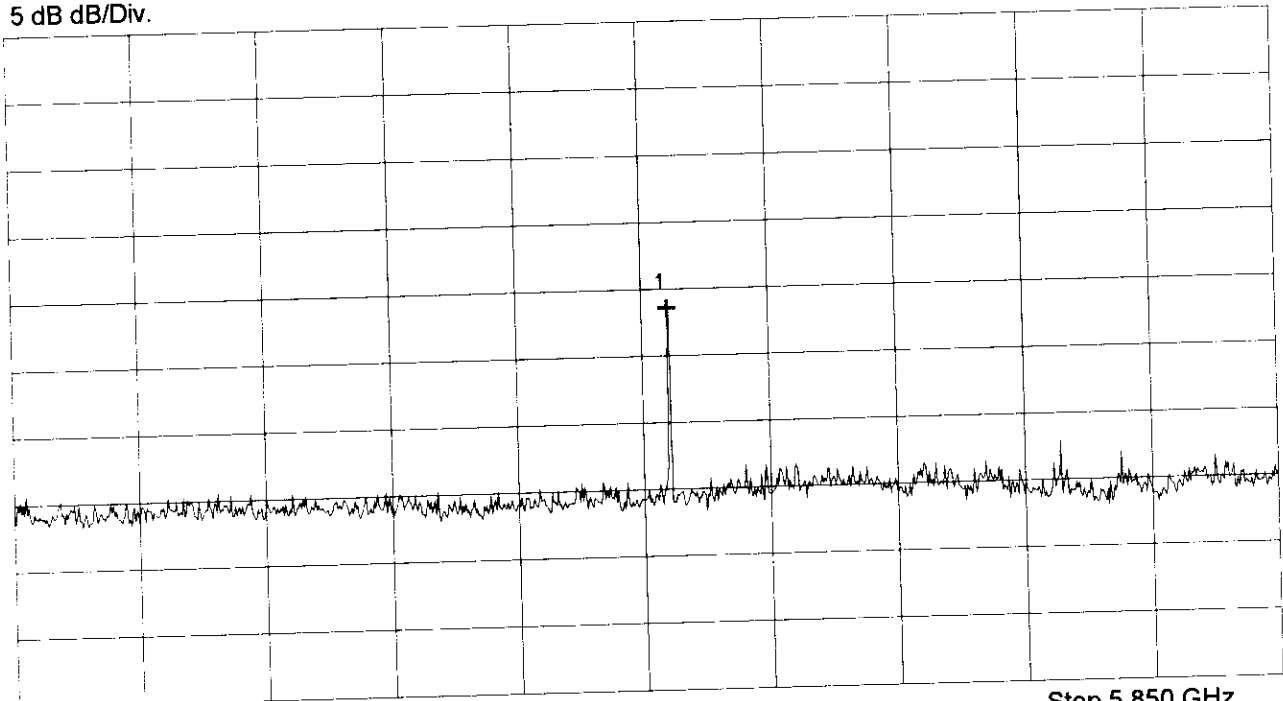
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

4.938000 GHz

20.09 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

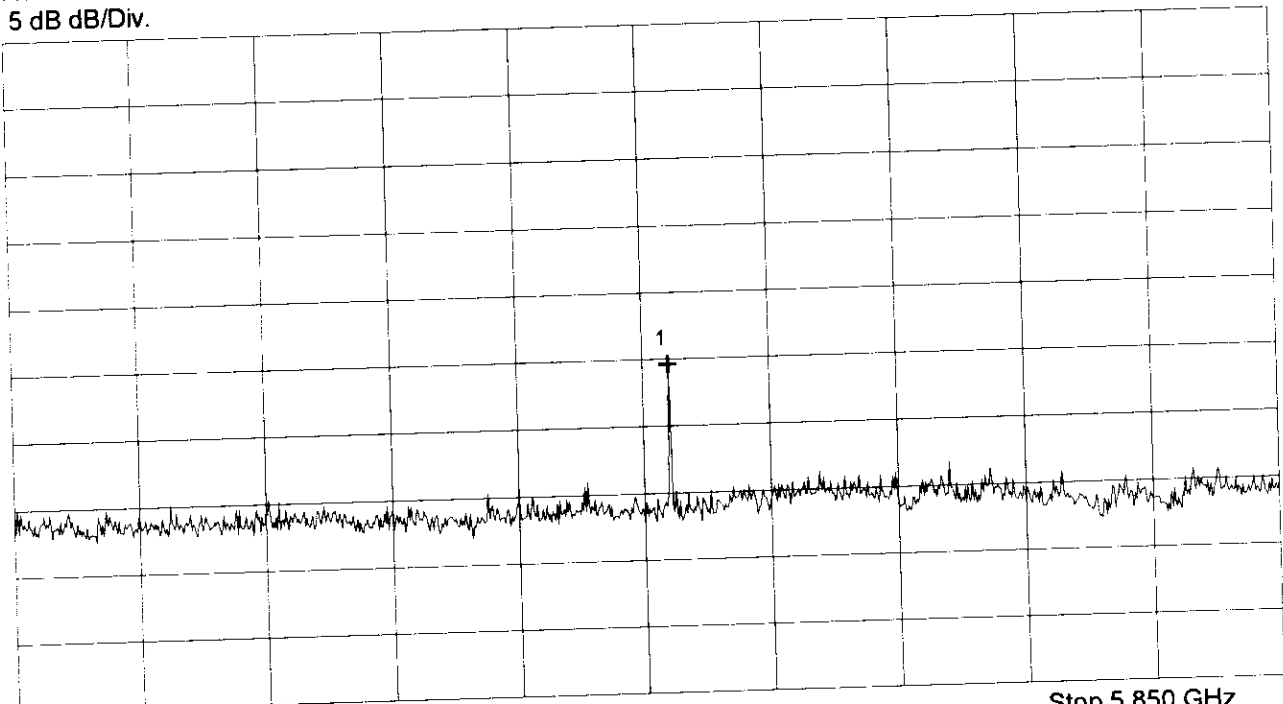
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Amplitude (dB $\mu$ V) |
|------|-----------------|------------------------|
| Nr.1 | 4.938000        | 16.11                  |
| Nr.2 |                 |                        |
| Nr.3 |                 |                        |
| Nr.4 |                 |                        |
| Nr.5 |                 |                        |
| Nr.6 |                 |                        |
| Nr.7 |                 |                        |
| Nr.8 |                 |                        |

Tested by:  
Johann Roidt

Date:

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

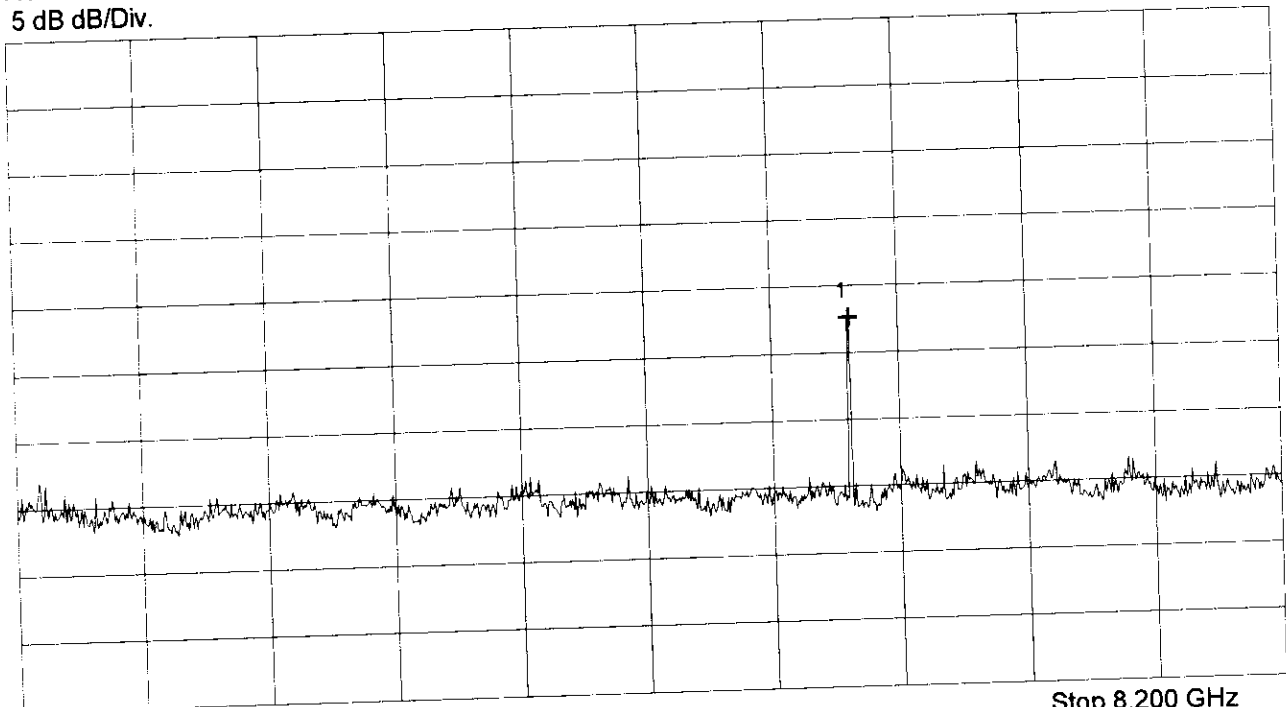
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 7.403611 GHz | 19.16 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

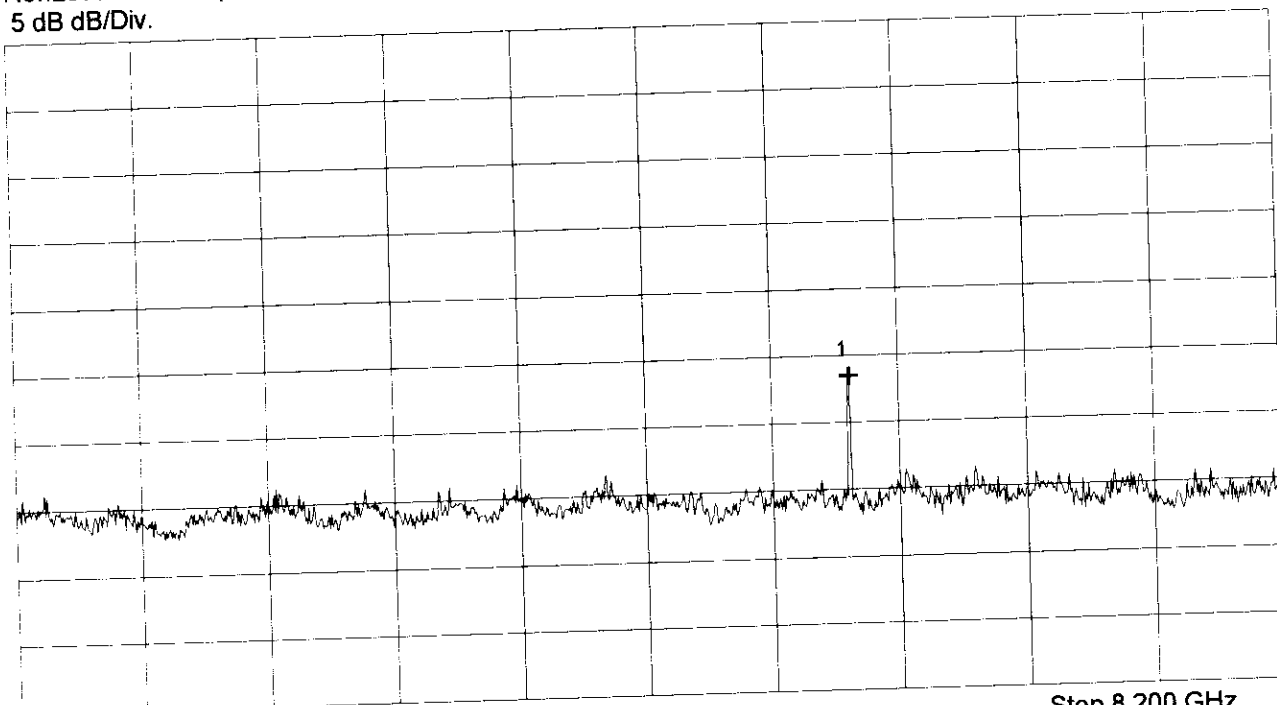
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 7.403611 GHz | 14.99 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

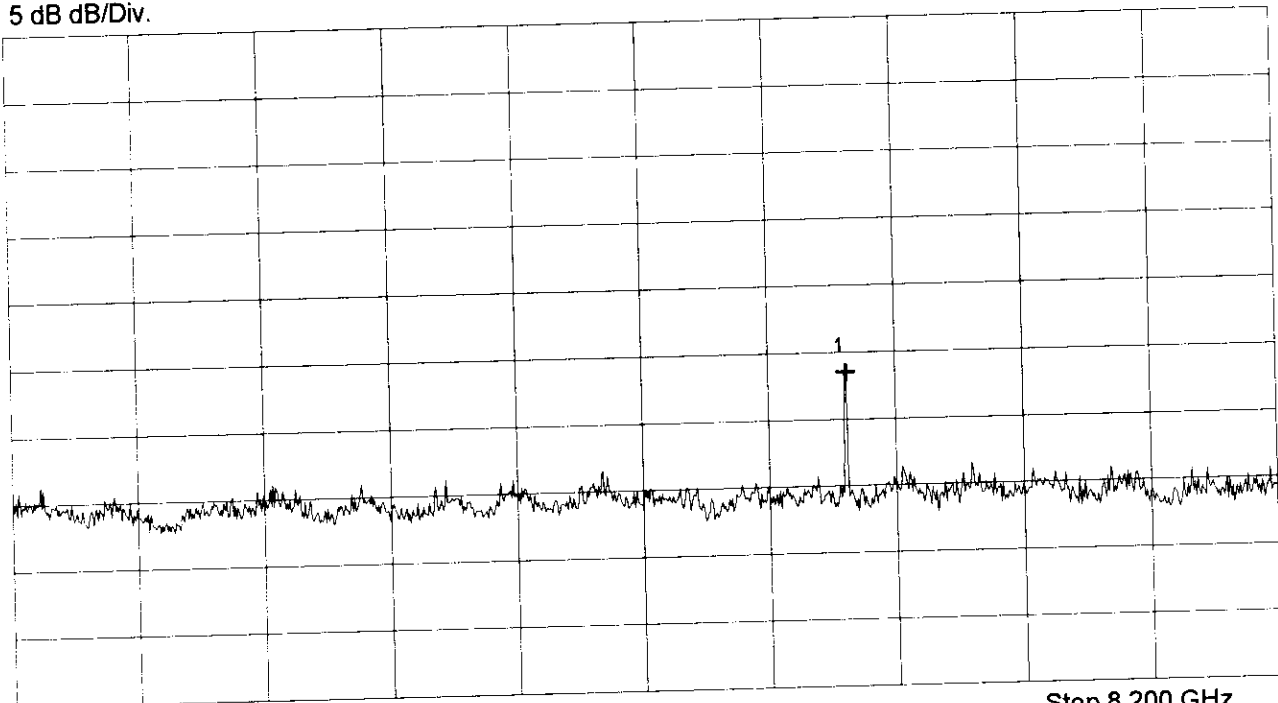
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 7.403611 GHz | 14.99 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Date:

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

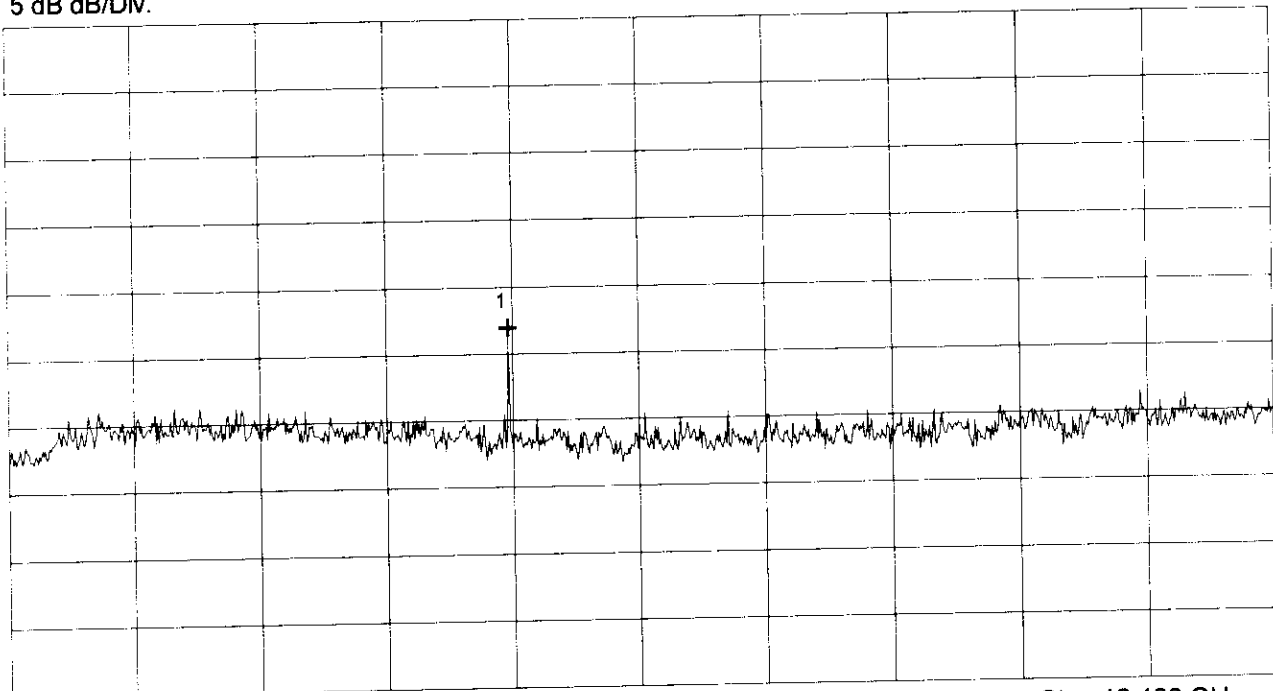
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 9.866000 GHz | 13.95 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

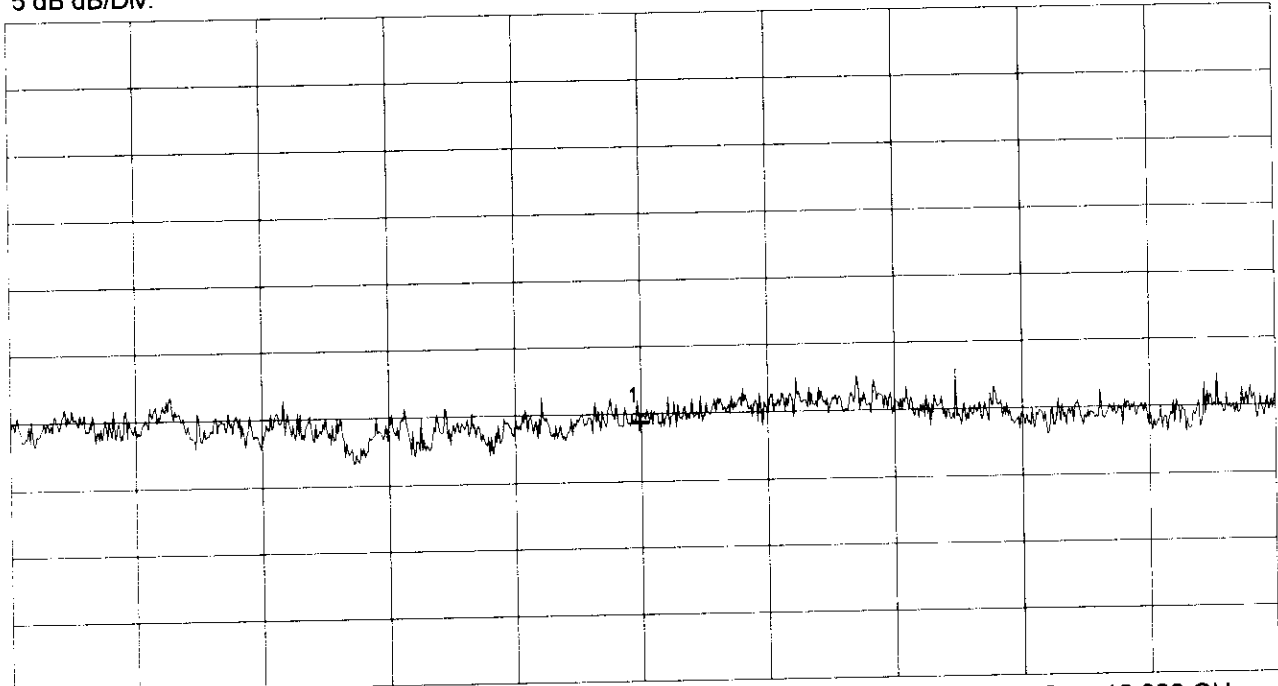
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref. Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 15.193778 GHz | 6.38 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

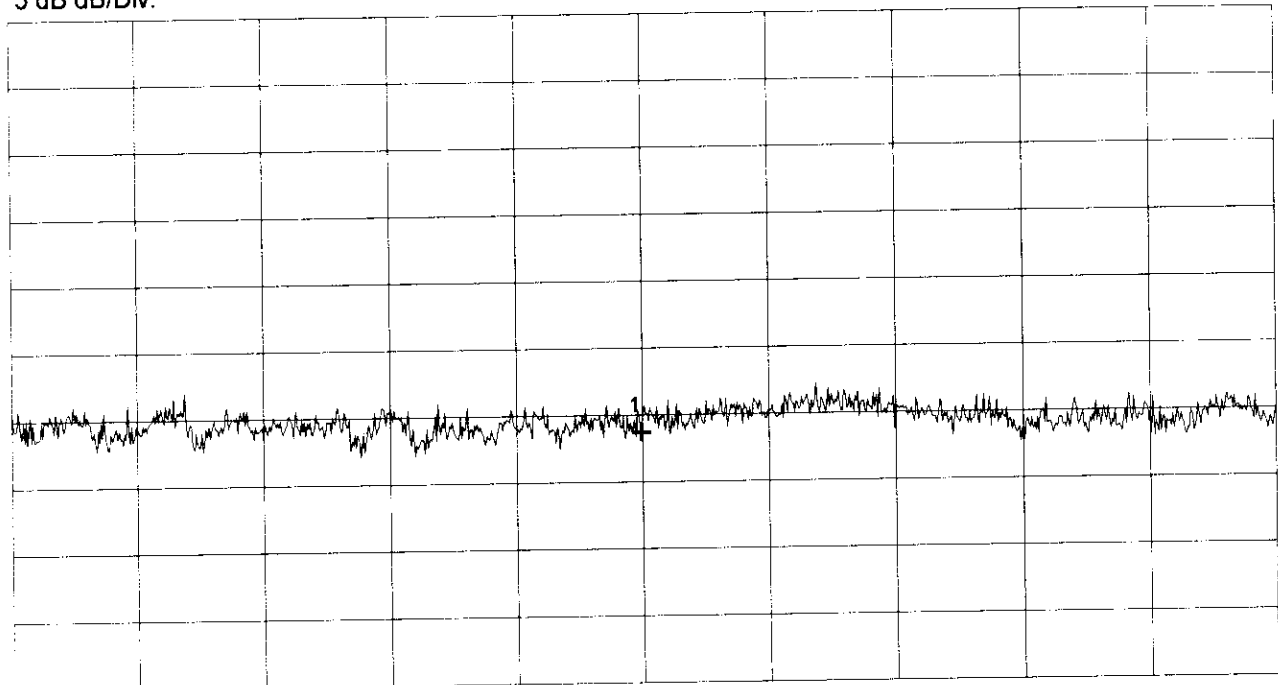
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 15.193778 GHz | 5.72 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

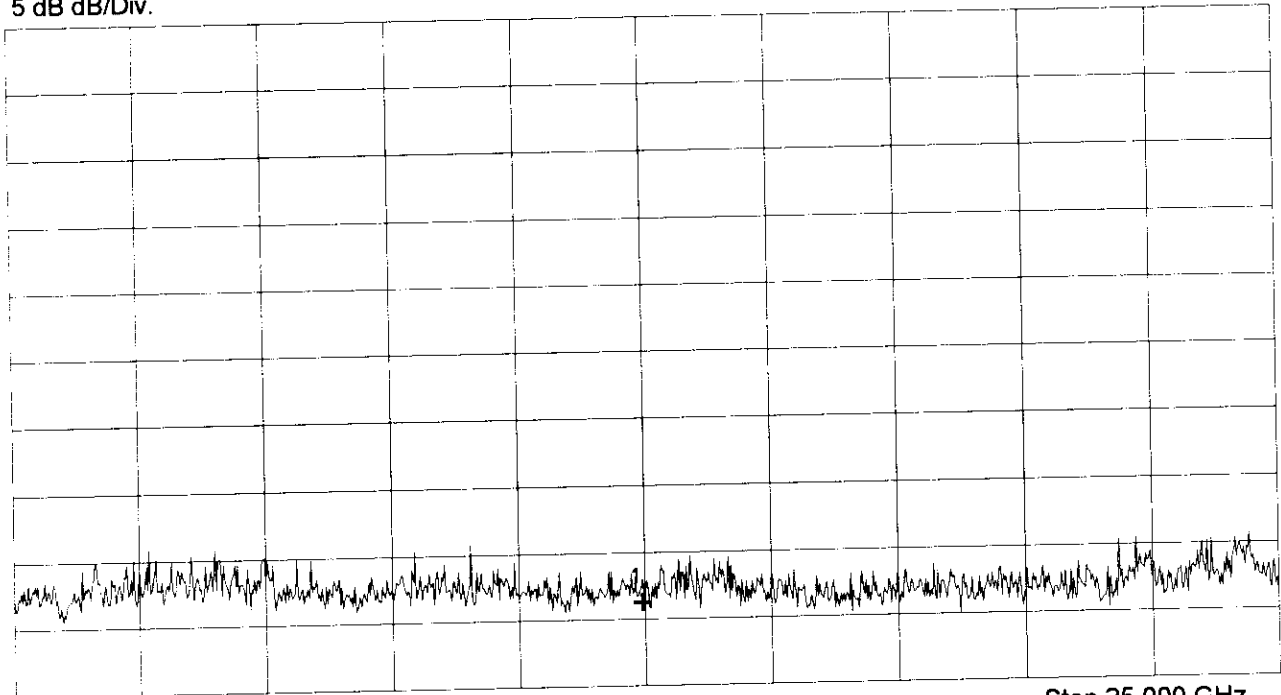
Mode:  
Supply voltage 5 V DC

TX mode, Channel 27 (2466.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref.Level 57 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
| Nr.1 | 21.484444 GHz | 13.28 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

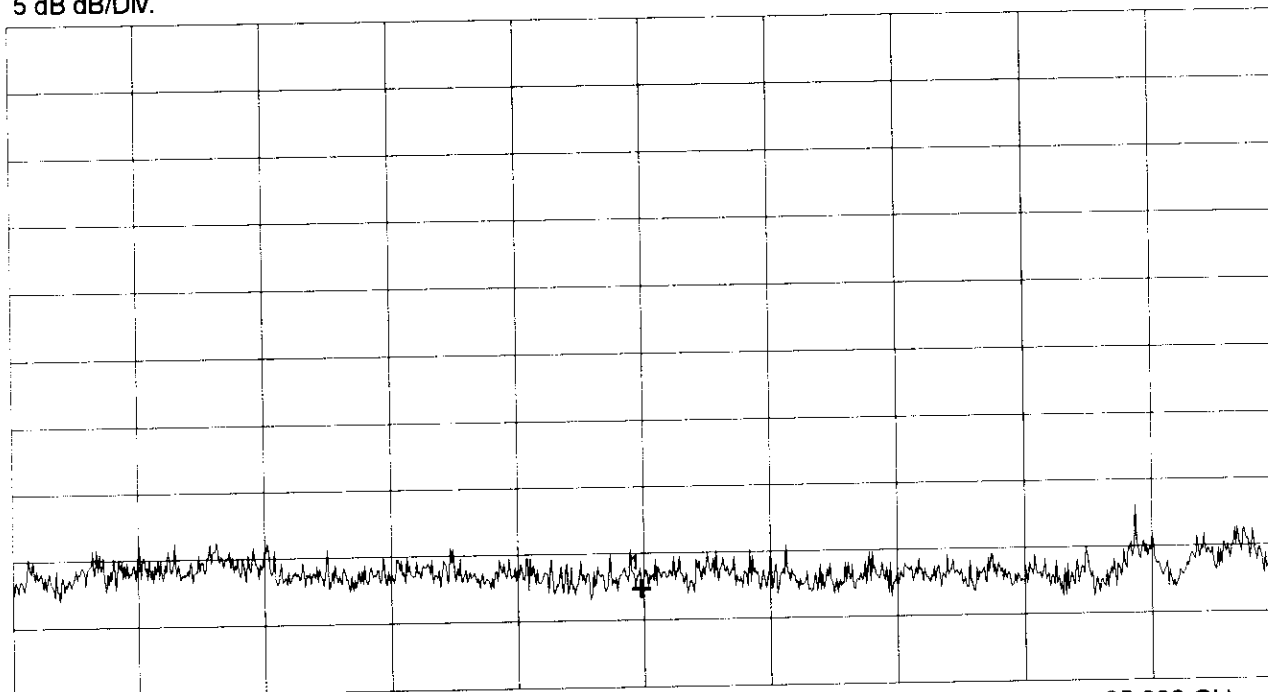
Mode:  
Supply voltage 5 V DC

TX mode, Channel 27 (2466.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref.Level 57 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
|      | -----         |                  |
| Nr.1 | 21.484444 GHz | 14.31 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

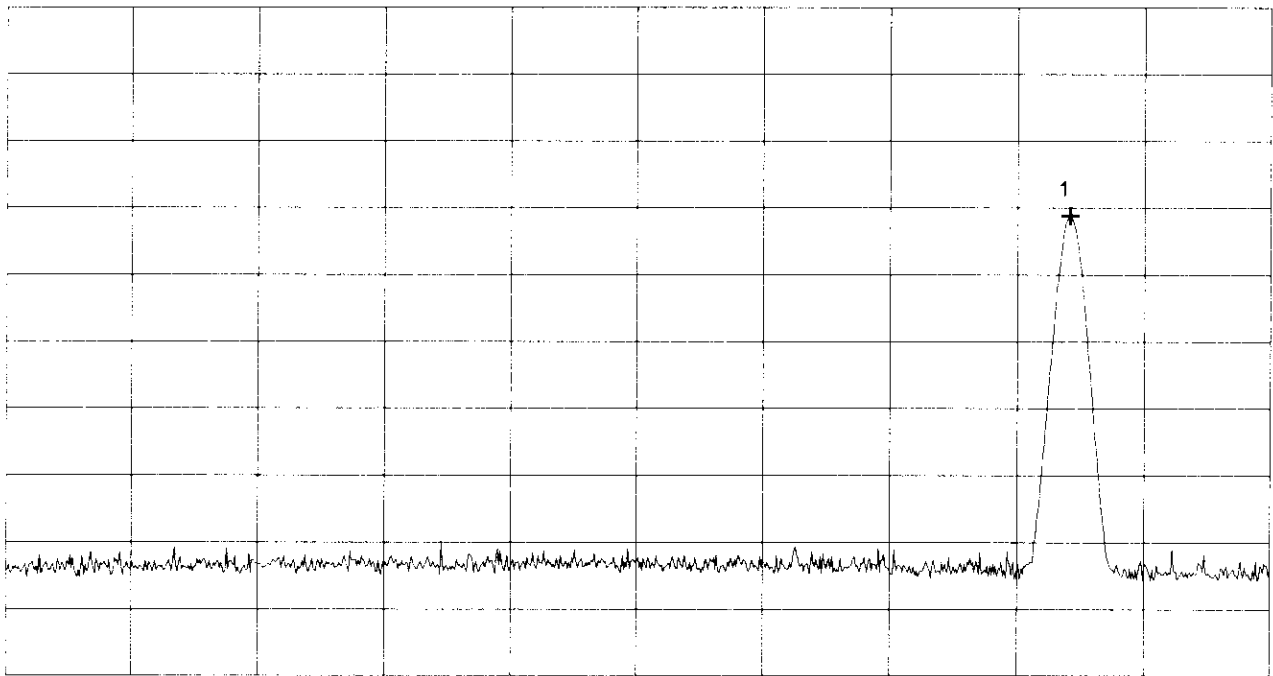
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# Radiated Emissions Measurements according to FCC Rules

|                                    |   |
|------------------------------------|---|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>             |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX Mode, Channel 33 (2481.5 MHz)</b>           |
| Applicant:<br><b>Siemens AG</b>    | <b>Horizontal Polarization, Test distance 3 m</b> |
|                                    |   |
|                                    |   |
|                                    |   |

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
|      | -----        |                  |
| Nr.1 | 2.467289 GHz | 61.41 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

|            |              |
|------------|--------------|
| Tested by: | Project-No.: |
|------------|--------------|

# Radiated Emissions Measurements according to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

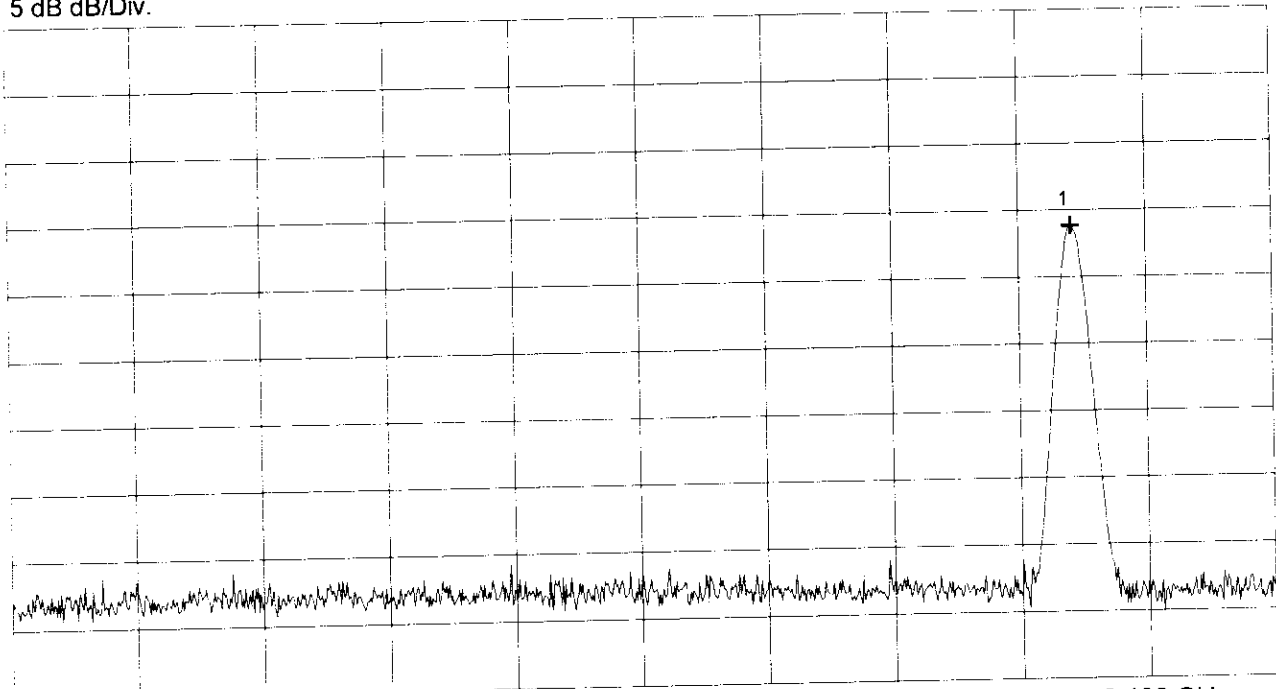
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Vertical Polarization, Test distance 3 m

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.467289 GHz | 60.82 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

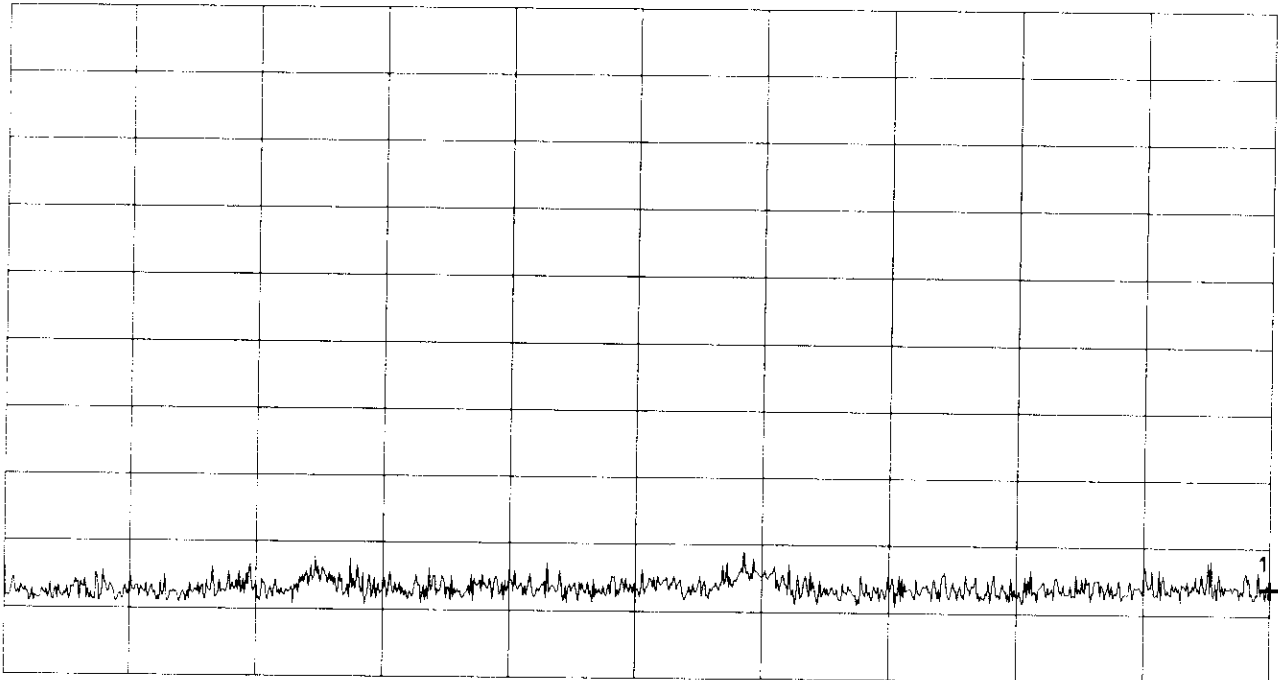
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 300.000000 MHz | 3.92 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

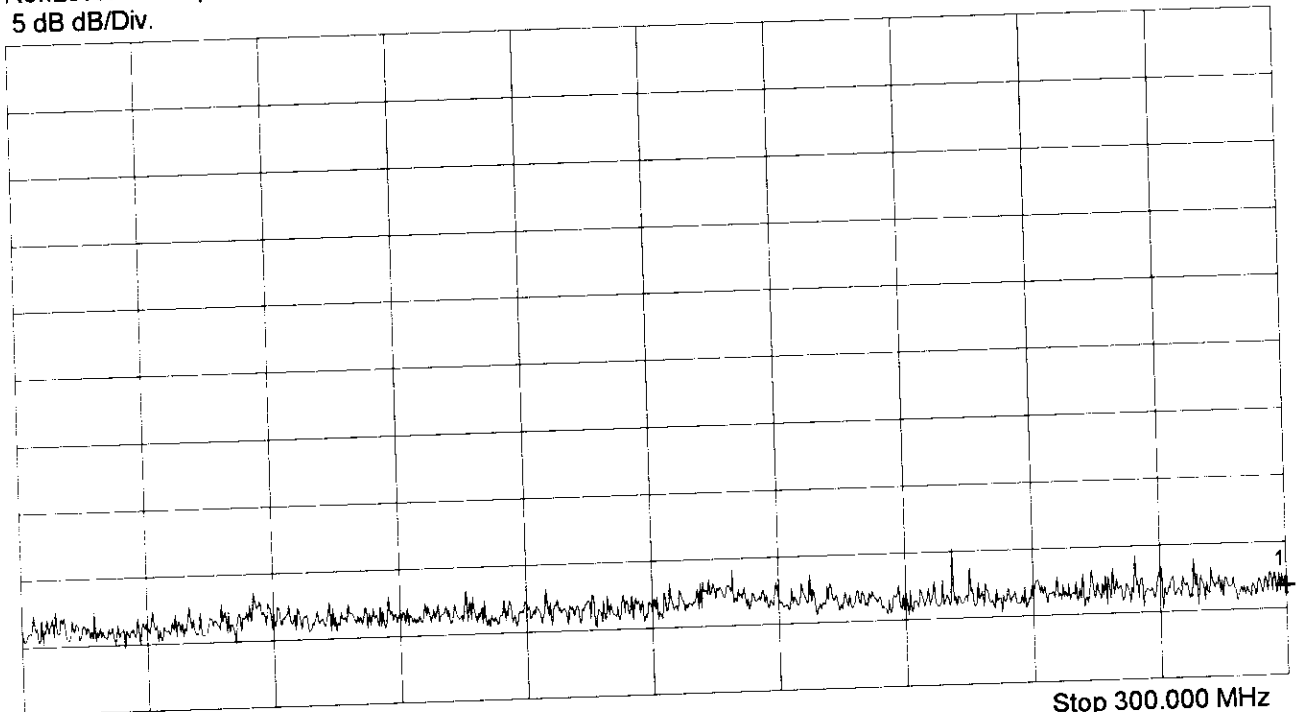
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

300.000000 MHz

3.73 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

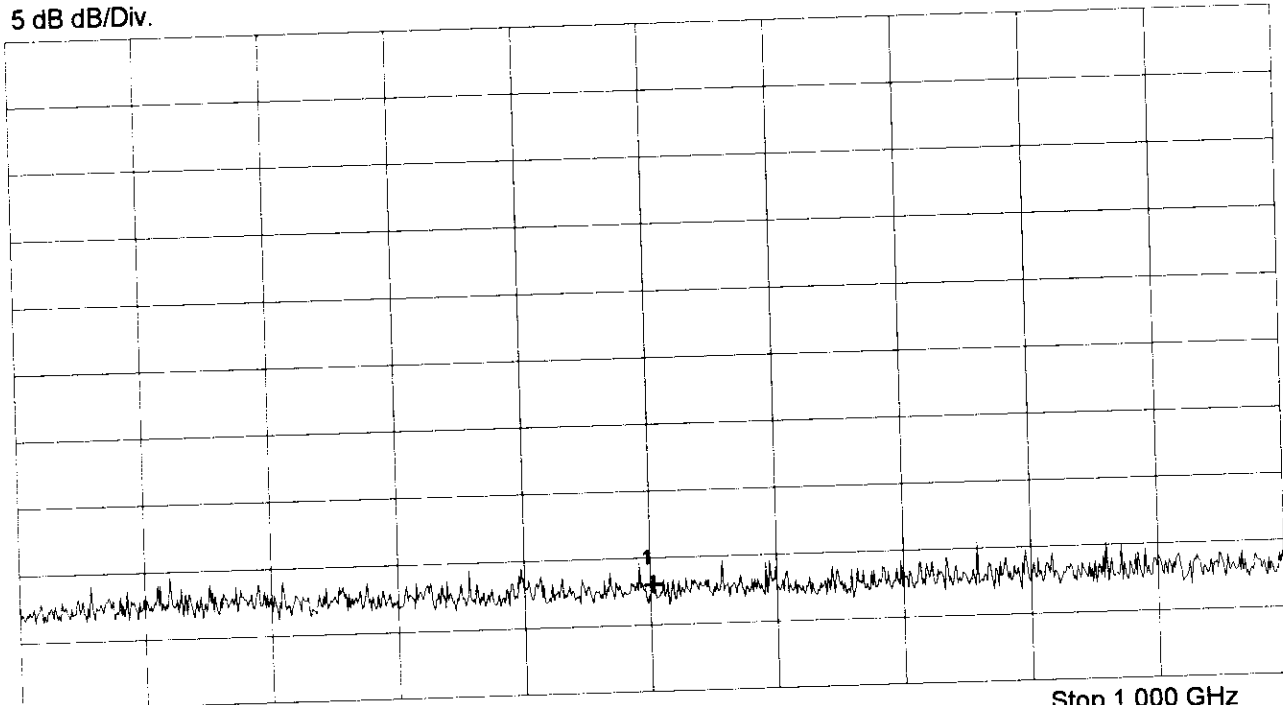
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

651.555556 MHz

5.00 dB $\mu$ V

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

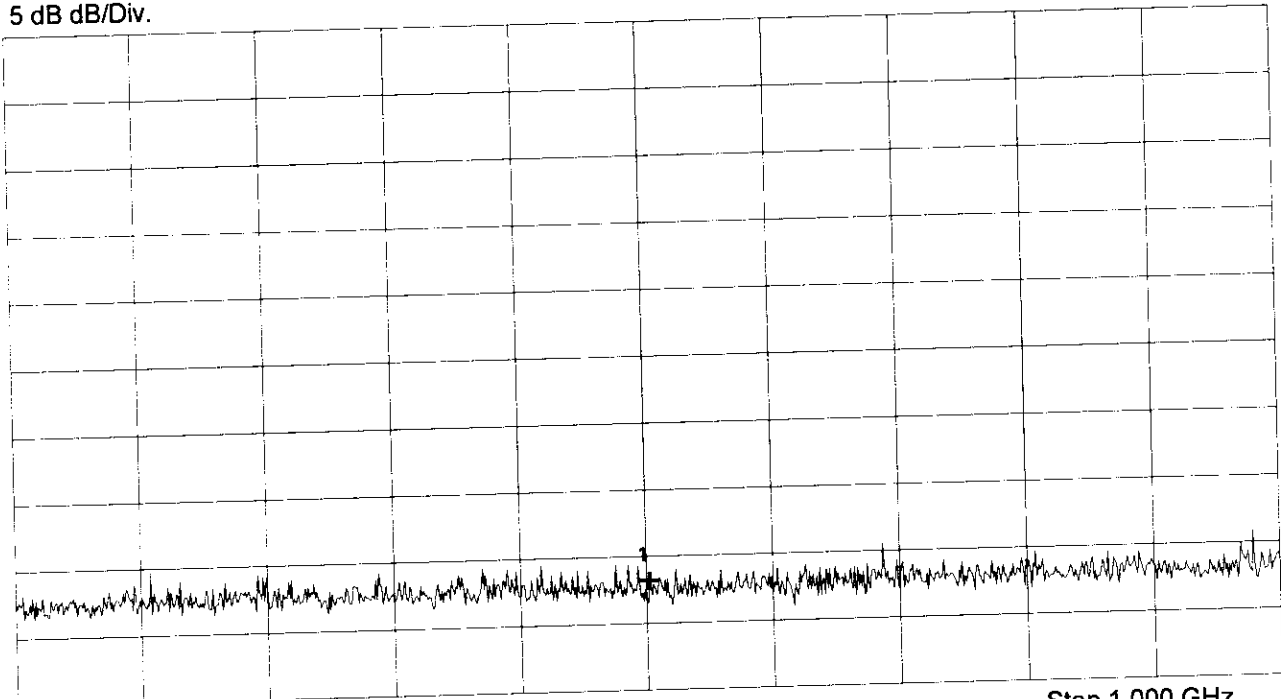
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

Nr.1  
Nr.2  
Nr.3  
Nr.4  
Nr.5  
Nr.6  
Nr.7  
Nr.8

651.555556 MHz

5.16 dB $\mu$ V

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 33 (2481.5 MHz)

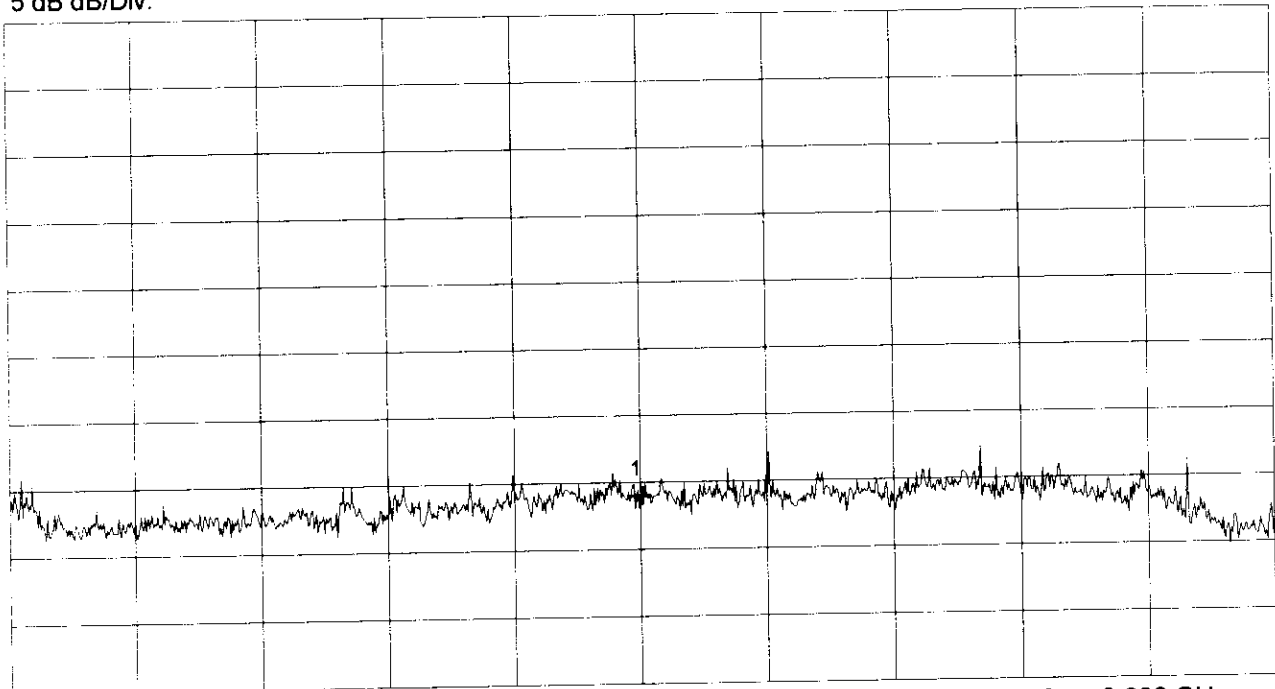
Test distance 3 m  
Vertical Polarization

Notch Filter on TX frequency

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 1.801778 GHz | 5.50 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Date:

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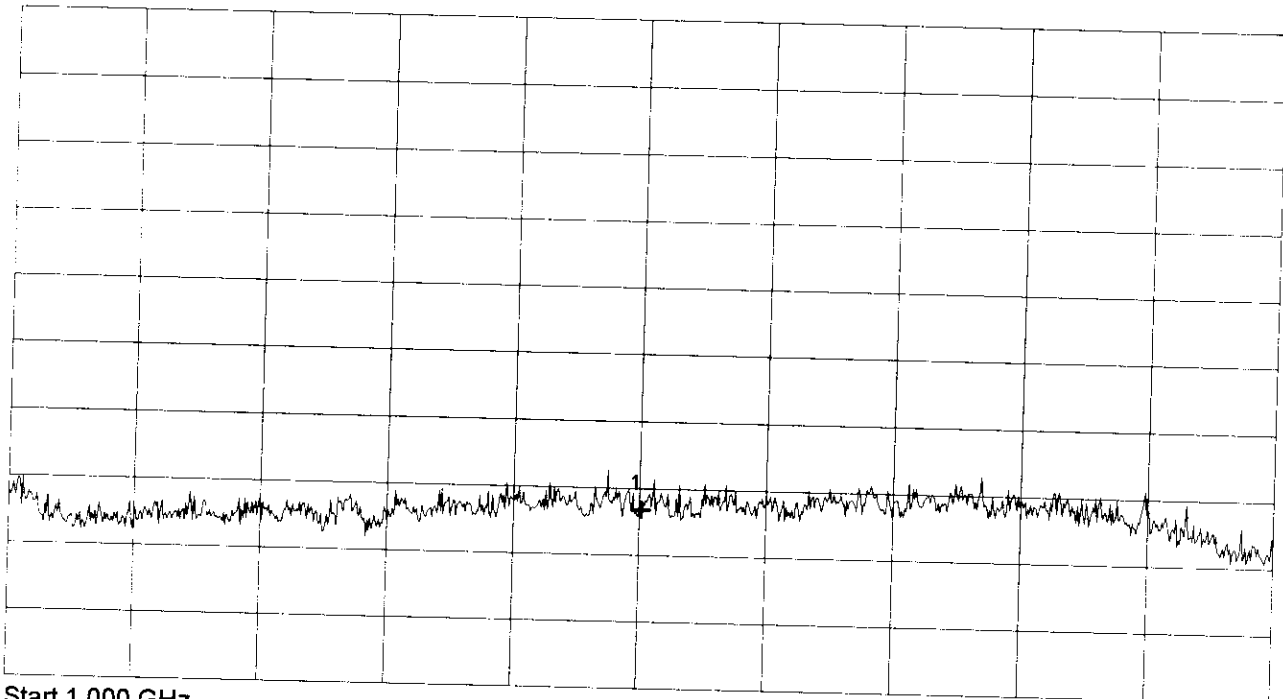
# Radiated Emissions Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC               |
| Serial No.:<br>Sample No. 1 | TX mode, Channel 33 (2481.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Horizontal Polarization |
|                             |  |
|                             |  |
|                             | Notch Filter on TX frequency                 |

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 1.801778 GHz | 4.93 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roitd

Date:

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 33 (2481.5 MHz)

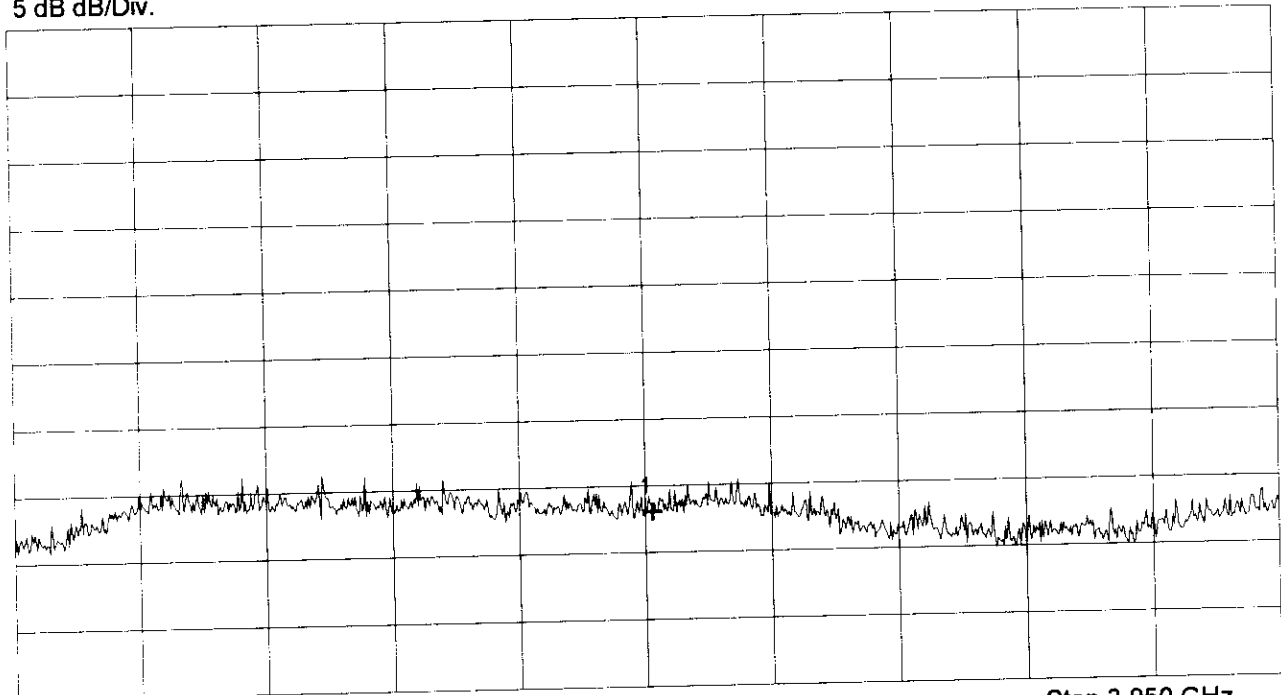
Test distance 3 m  
Vertical Polarization

Notch Filter on TX frequency

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.282500 GHz | 4.57 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 33 (2481.5 MHz)

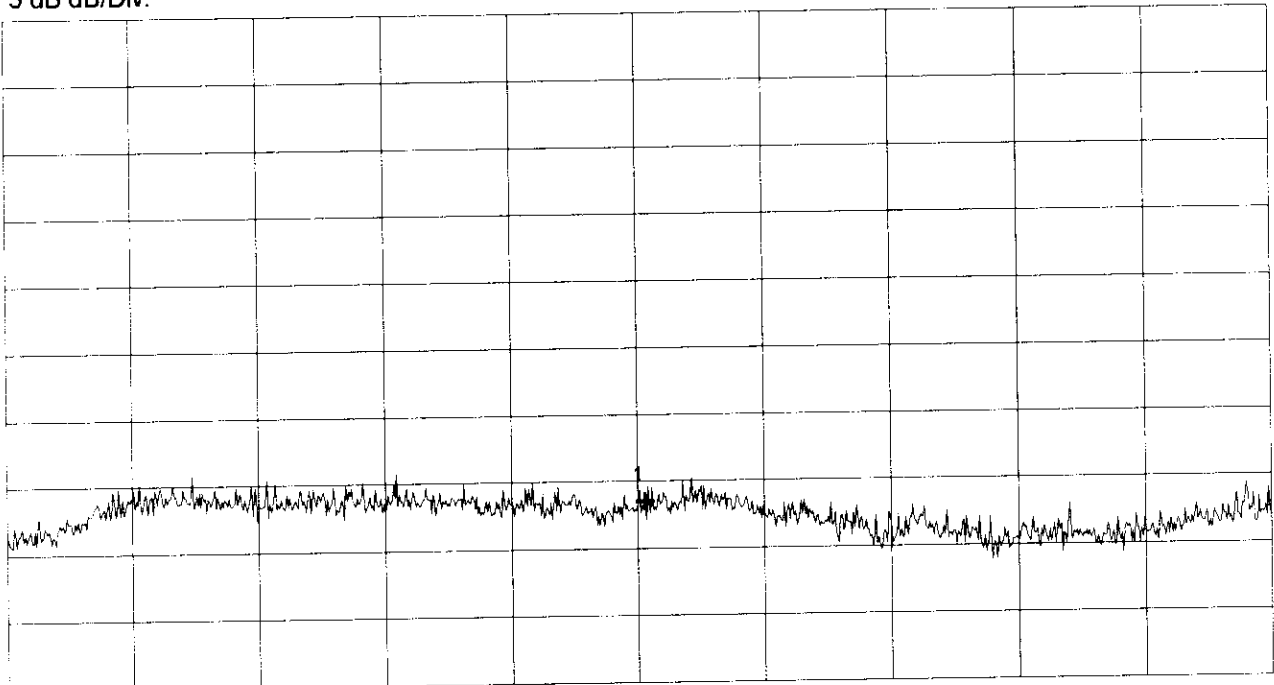
Test distance 3 m  
Horizontal Polarization

Notch Filter on TX frequency

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.282500 GHz | 4.99 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

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Date:

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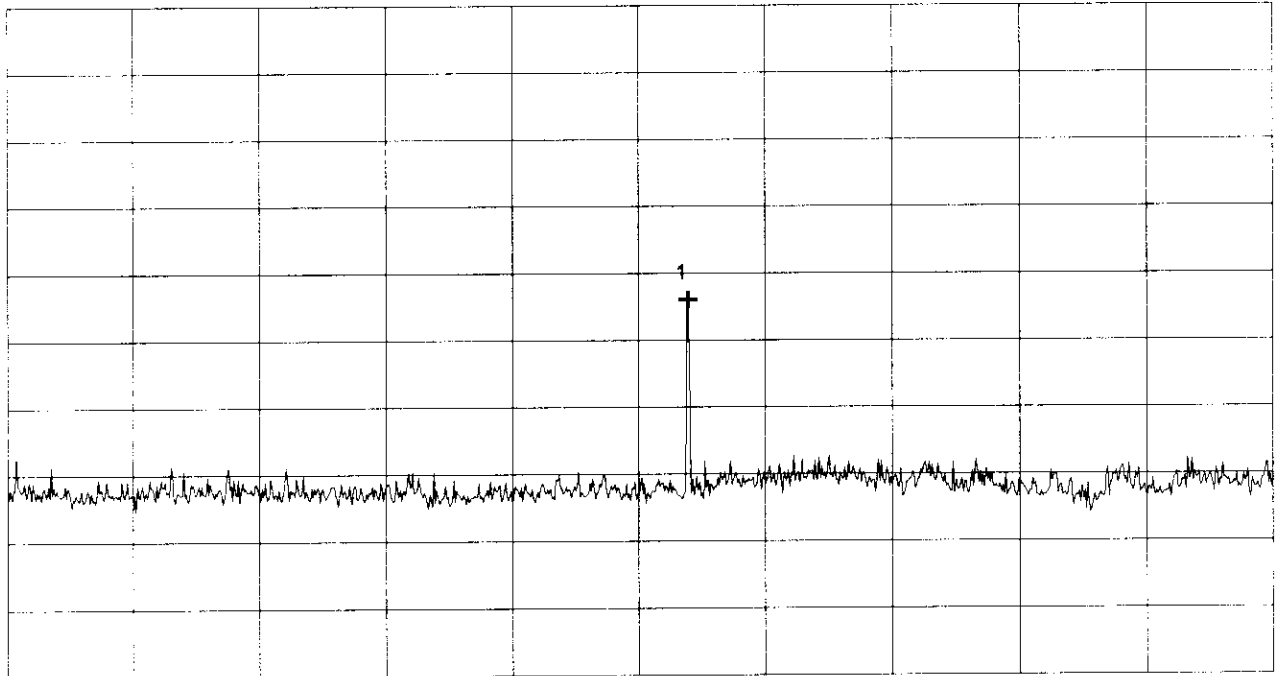
# Radiated Emissions Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br>Sample No. 1 | TX mode, Channel 33 (2481.5 MHz)           |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Vertical Polarization |
|                             |  |
|                             |  |
|                             | Notch Filter on TX frequency               |

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 4.973889 GHz | 19.56 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

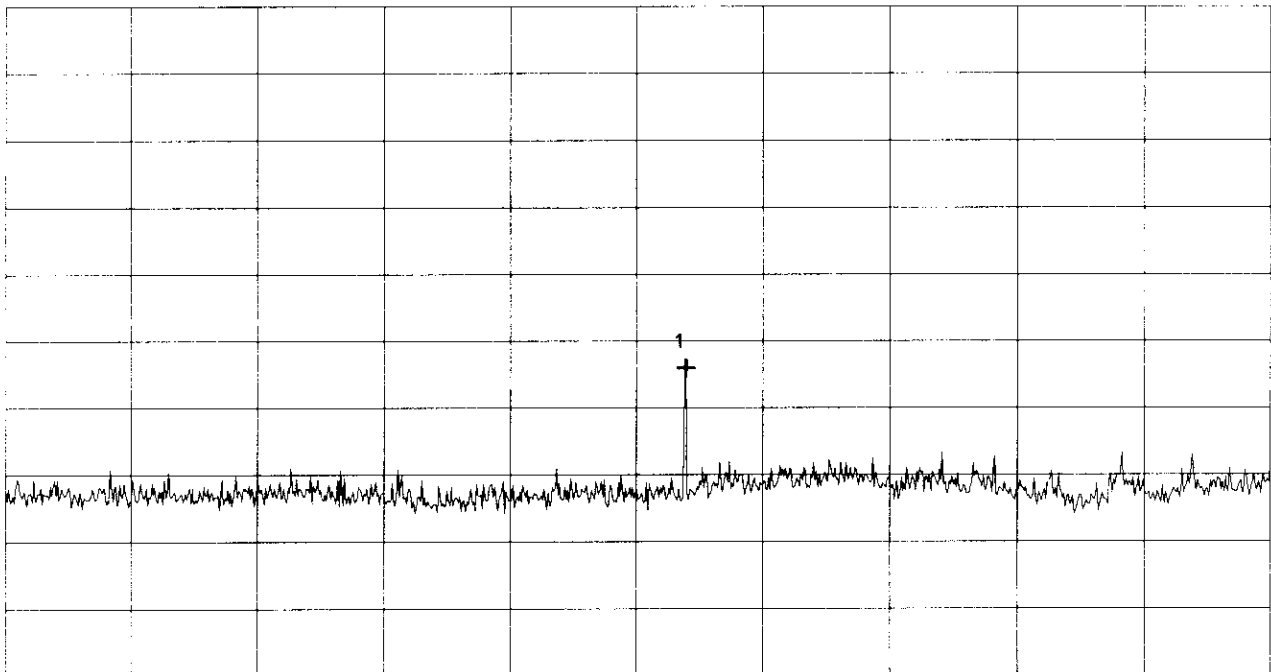
# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX mode, Channel 33 (2481.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    | <b>Notch Filter on TX frequency</b>                        |

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
|      | 4.973889 GHz | 14.47 dB $\mu$ V |
| Nr.1 |              |                  |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

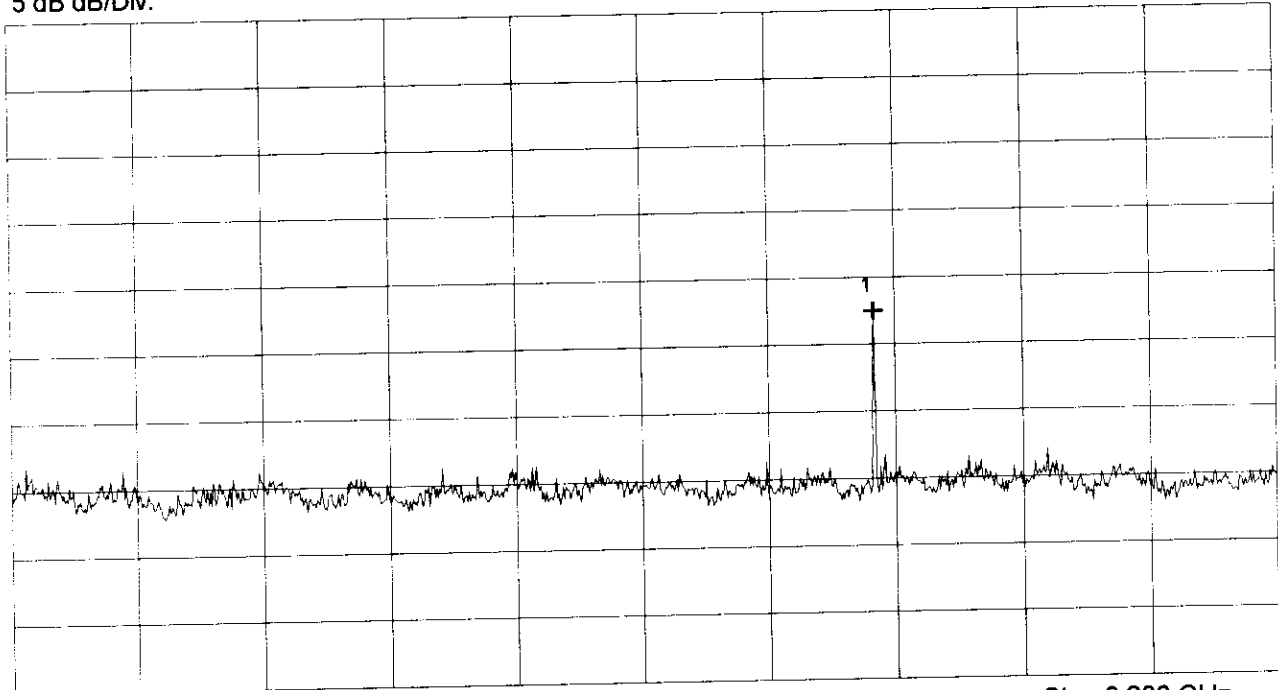
TX mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 7.455833 GHz | 18.96 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

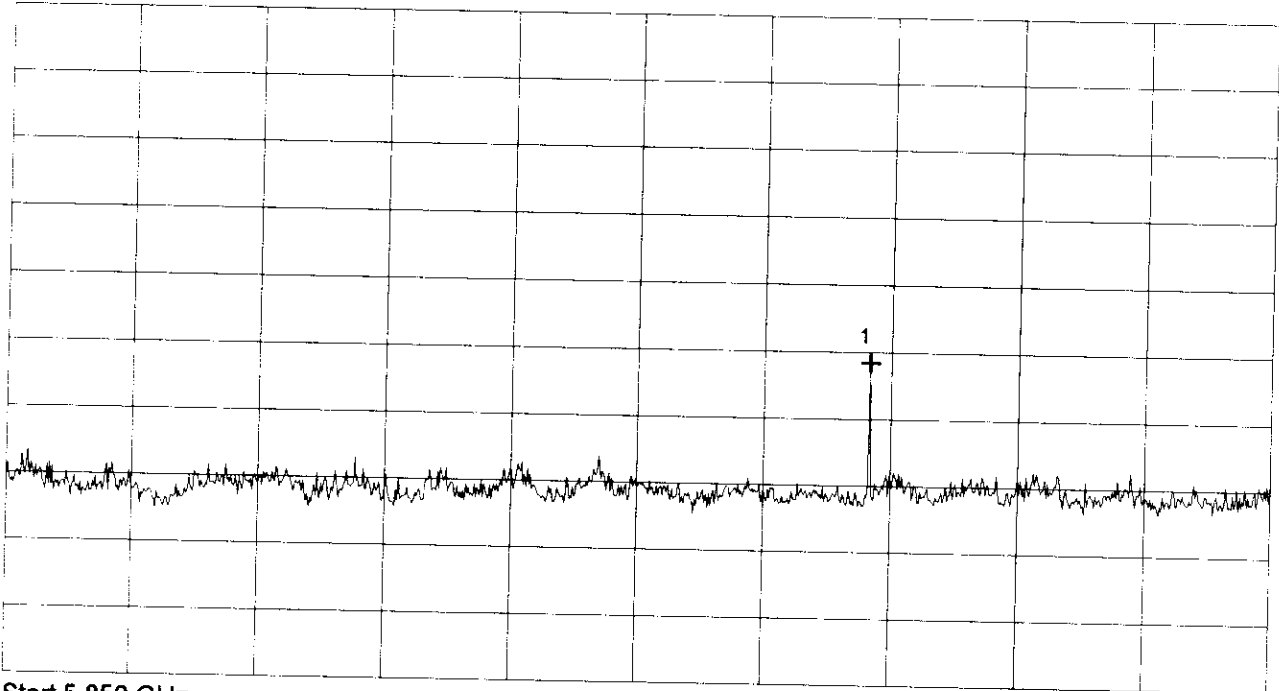
TX mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
|      | -----        |                  |
| Nr.1 | 7.455833 GHz | 15.72 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Date:

Project-No.:



# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

---

Serial No.:  
Sample No. 1

---

Applicant:  
Siemens AG

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---

Mode:  
Supply voltage 5 V DC

---

TX mode, Channel 33 (2481.5 MHz)

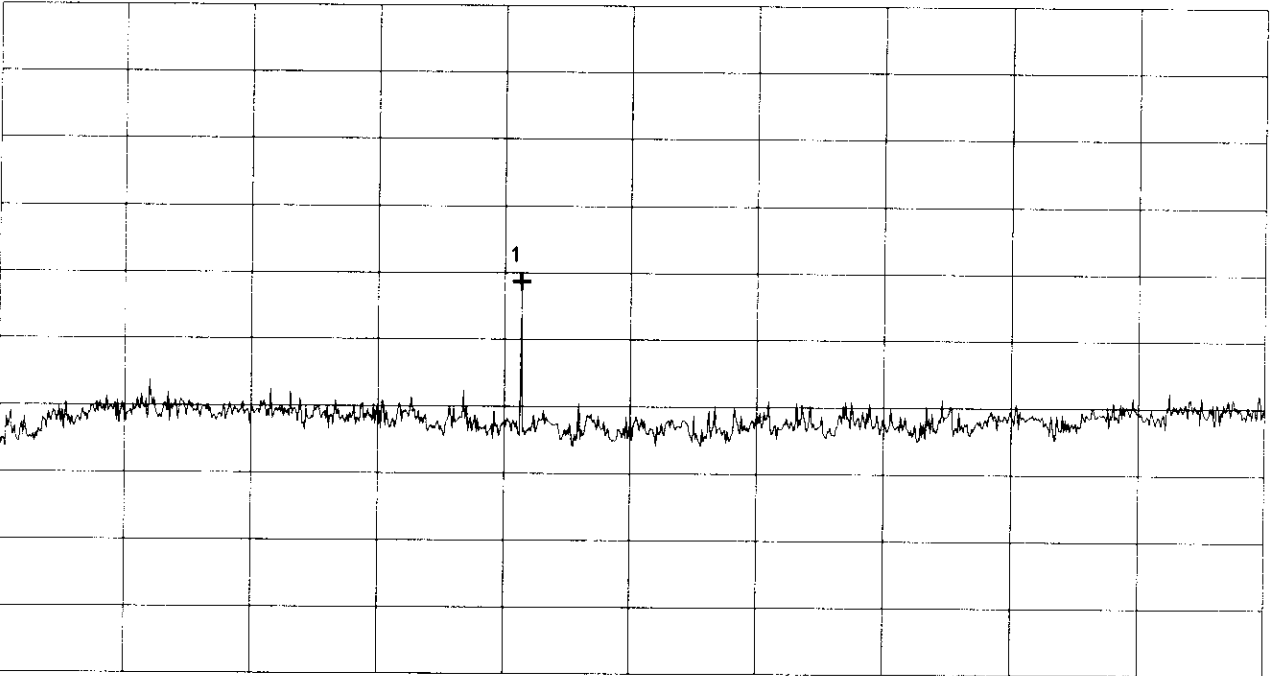
---

Test distance 3 m  
Horizontal Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Power (dB $\mu$ V) |
|------|-----------------|--------------------|
| Nr.1 | 9.936000        | 16.37              |
| Nr.2 |                 |                    |
| Nr.3 |                 |                    |
| Nr.4 |                 |                    |
| Nr.5 |                 |                    |
| Nr.6 |                 |                    |
| Nr.7 |                 |                    |
| Nr.8 |                 |                    |

Tested by:  
Johann Roidt

---

Date:

Project-No.:

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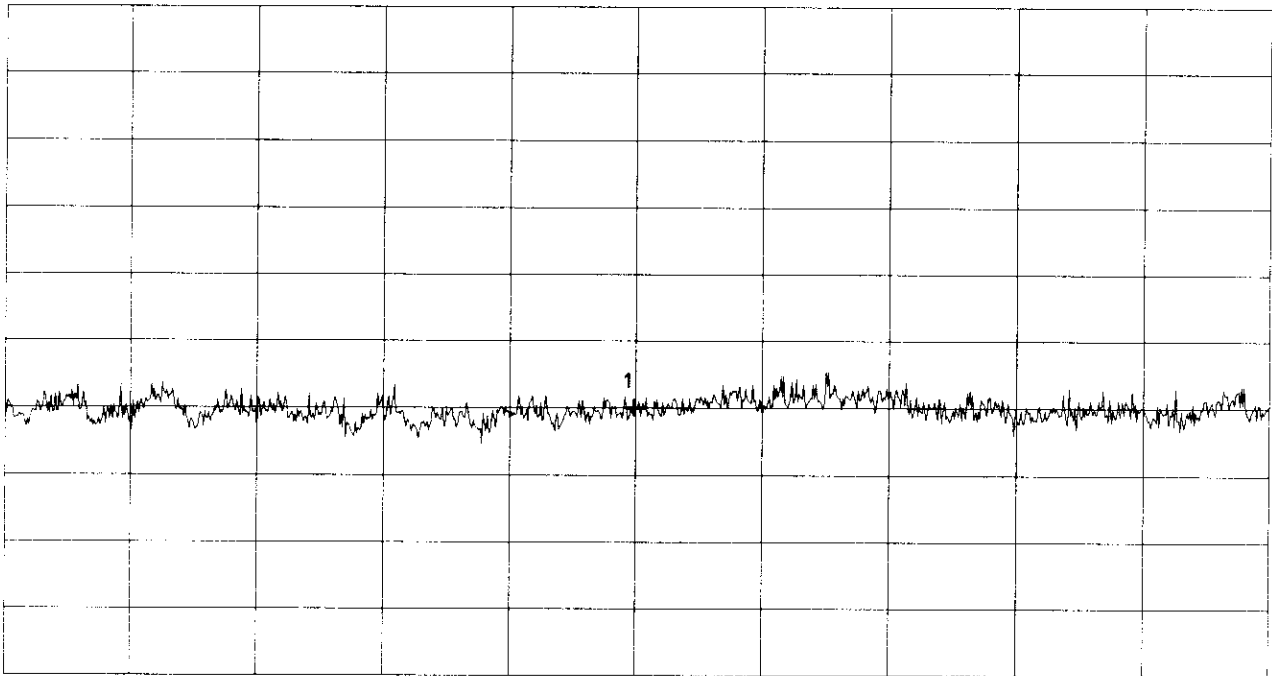
# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| <b>Model:</b><br>SRIF Module       | <b>Mode:</b><br>Supply voltage 5 V DC      |
| <b>Serial No.:</b><br>Sample No. 1 | TX mode, Channel 33 (2481.5 MHz)           |
| <b>Applicant:</b><br>Siemens AG    | Test distance 3 m<br>Vertical Polarization |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 15.193778 GHz | 7.00 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

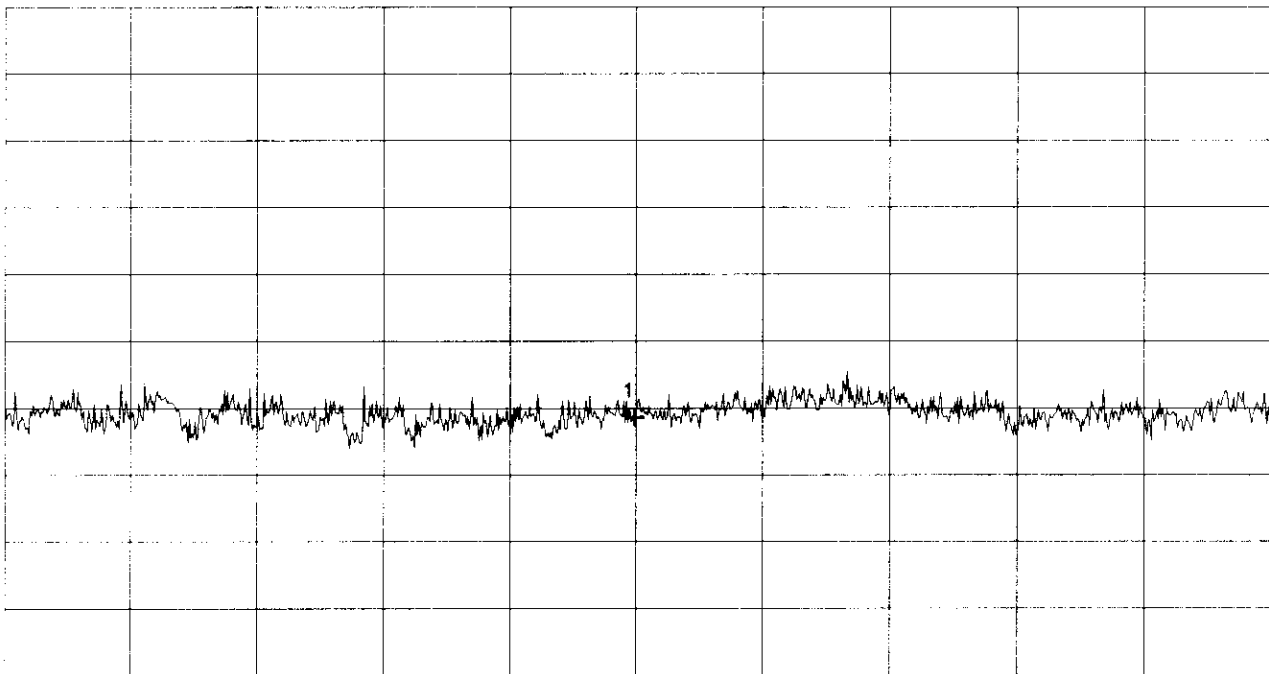
# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>        |
| Serial No.:<br><b>Sample No. 1</b> | TX mode, Channel 33 (2481.5 MHz)             |
| Applicant:<br><b>Siemens AG</b>    | Test distance 3 m<br>Horizontal Polarization |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 15.193778 GHz | 6.33 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
**Johann Roidt**

Project-No.:

Date:

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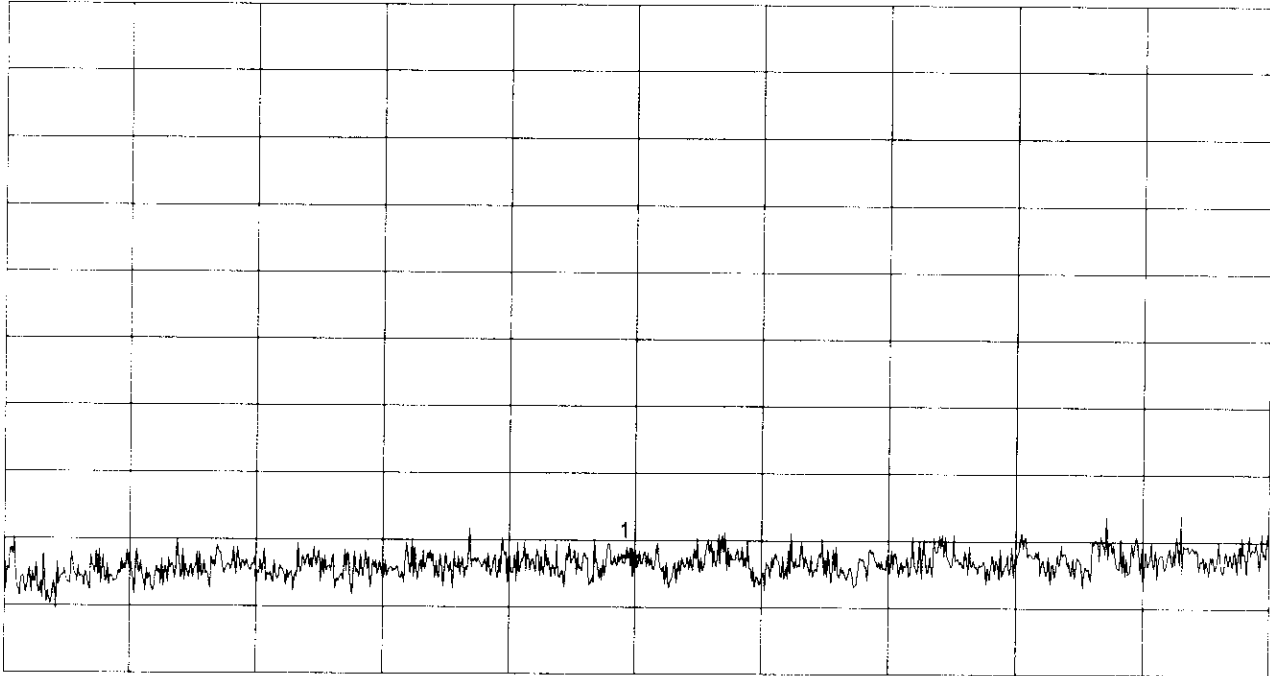


# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX mode, Channel 33 (2481.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 1 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
 5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
 RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
 SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 21.476667 GHz | 5.72 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
**Johann Roidt**

Project-No.:

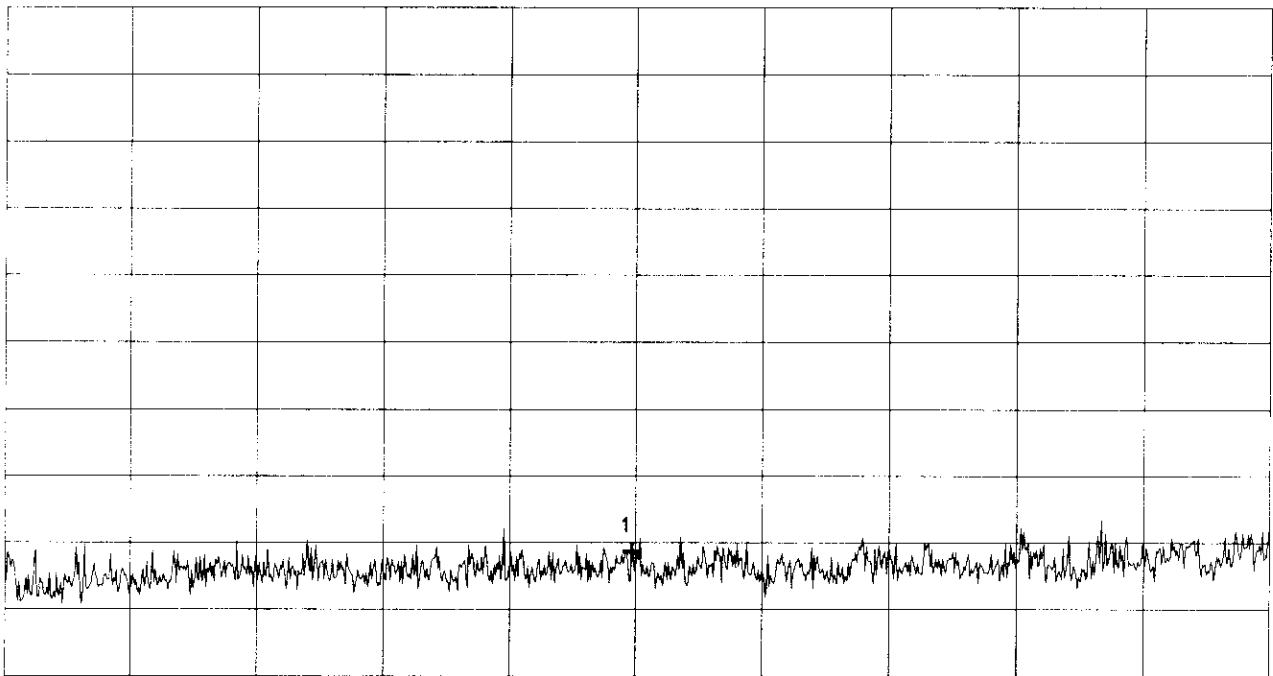
Date:

# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX mode, Channel 33 (2481.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 1 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 21.476667 GHz | 6.32 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

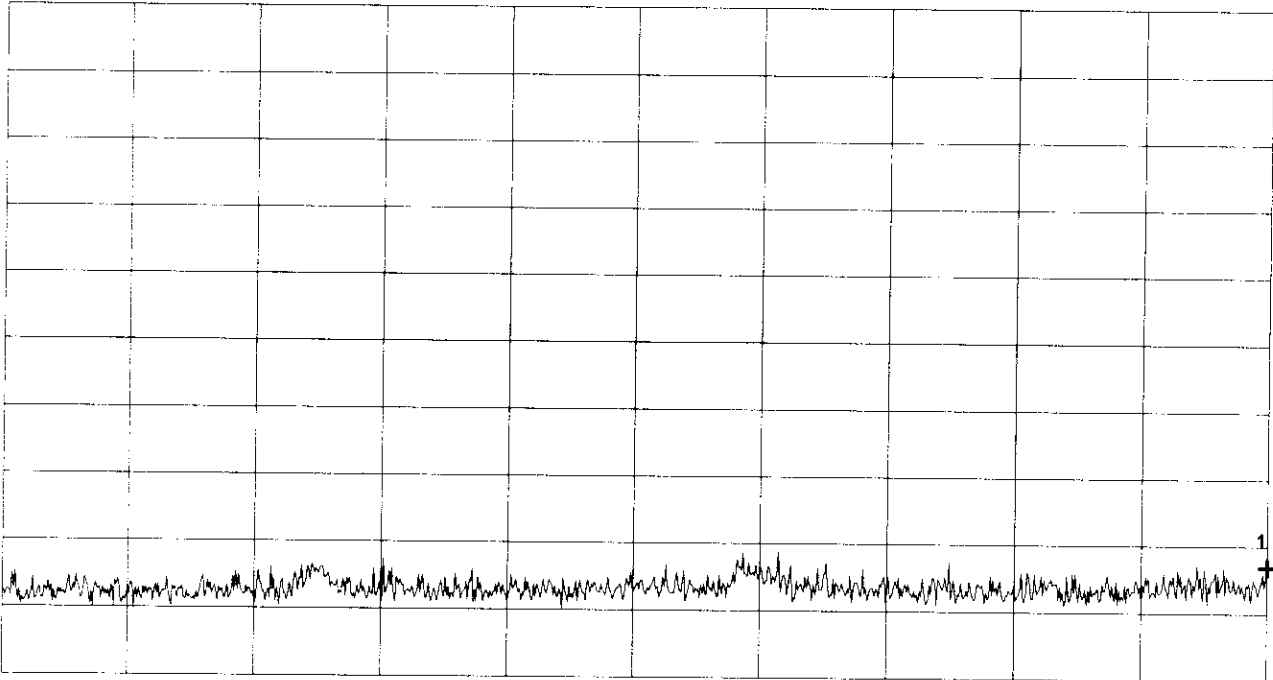
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 300.000000 MHz | 5.42 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

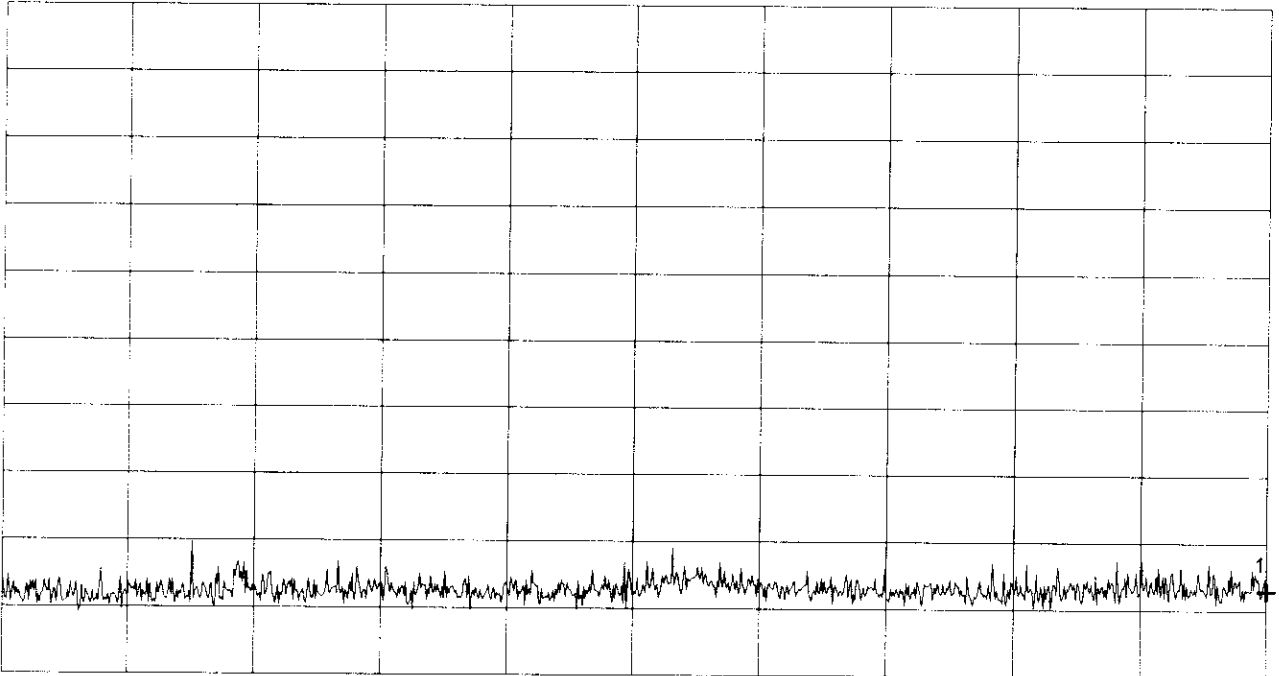
Page of pages

# Radiated Emission Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply Voltage 5 V DC             |
| Serial No.:<br>Sample No. 1 | RX Mode, Channel 33 (2481.5 MHz)           |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Vertical Polarization |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

|                        |                |                 |
|------------------------|----------------|-----------------|
| **** Multi Marker **** |                |                 |
|                        | -----          |                 |
| Nr.1                   | 300.000000 MHz | 3.42 dB $\mu$ V |
| Nr.2                   |                |                 |
| Nr.3                   |                |                 |
| Nr.4                   |                |                 |
| Nr.5                   |                |                 |
| Nr.6                   |                |                 |
| Nr.7                   |                |                 |
| Nr.8                   |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

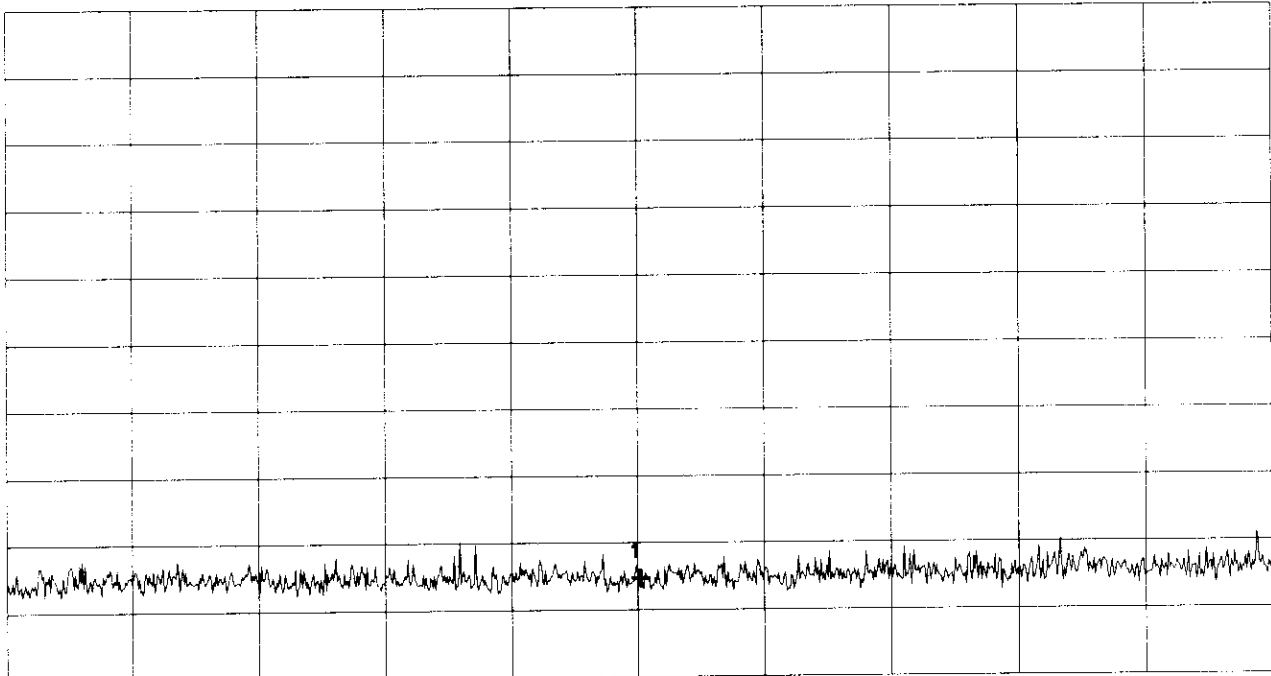
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (MHz) | Amplitude (dB $\mu$ V) |
|------|-----------------|------------------------|
| Nr.1 | 651.55556 MHz   | 4.34 dB $\mu$ V        |
| Nr.2 |                 |                        |
| Nr.3 |                 |                        |
| Nr.4 |                 |                        |
| Nr.5 |                 |                        |
| Nr.6 |                 |                        |
| Nr.7 |                 |                        |
| Nr.8 |                 |                        |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

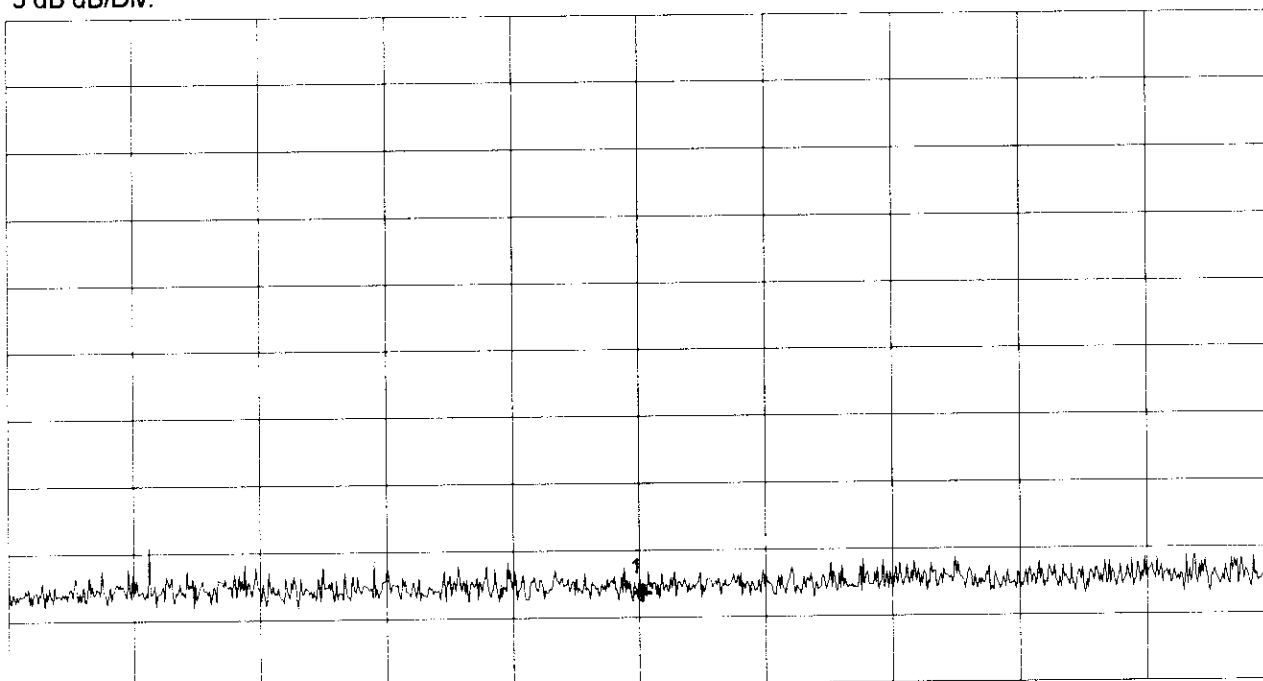
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 651.555556 MHz | 3.80 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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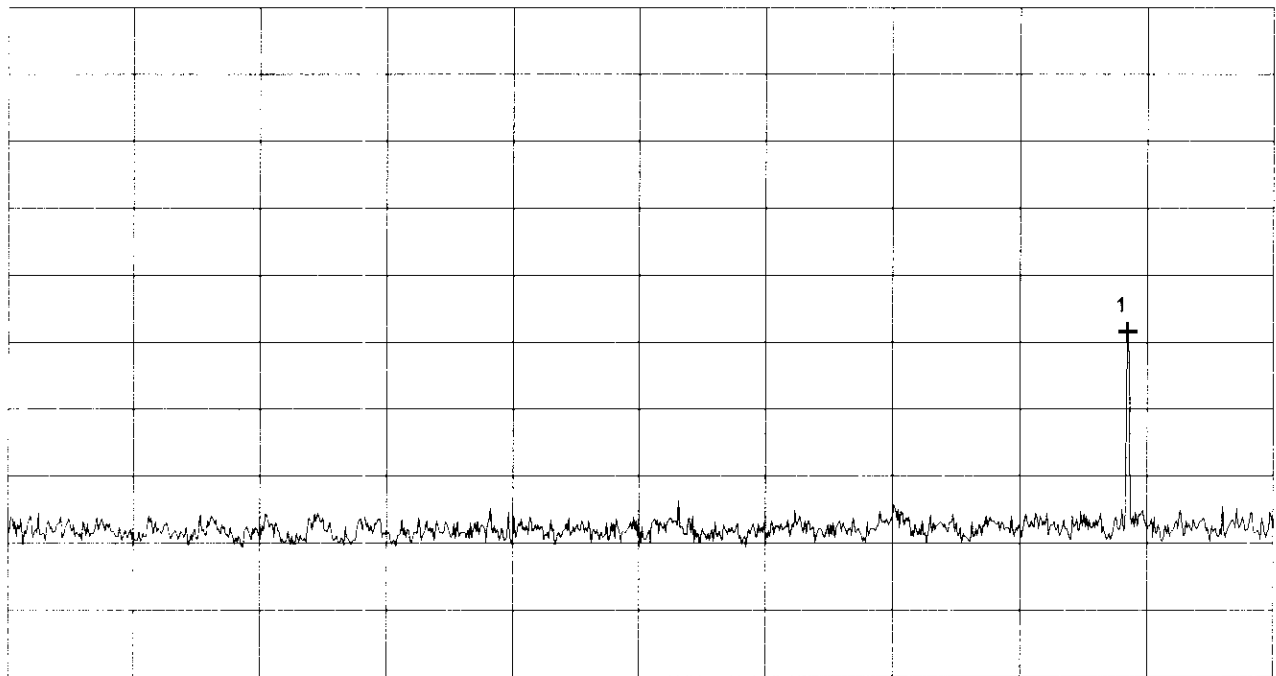
# Radiated Emission Measurement acc. to FCC Rules

|                              |   |
|------------------------------|---|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply voltage 5 V DC            |
| Serial No.:<br>Sample No. 1  | RX Mode Channel 33 (2481.5 MHz)           |
| Applicant:<br>Siemens AG     | Test distance 3m<br>Vertical polarization |
|                              |   |
|                              |   |
|                              |   |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
|      | -----        |                  |
| Nr.1 | 2.415111 GHz | 22.30 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

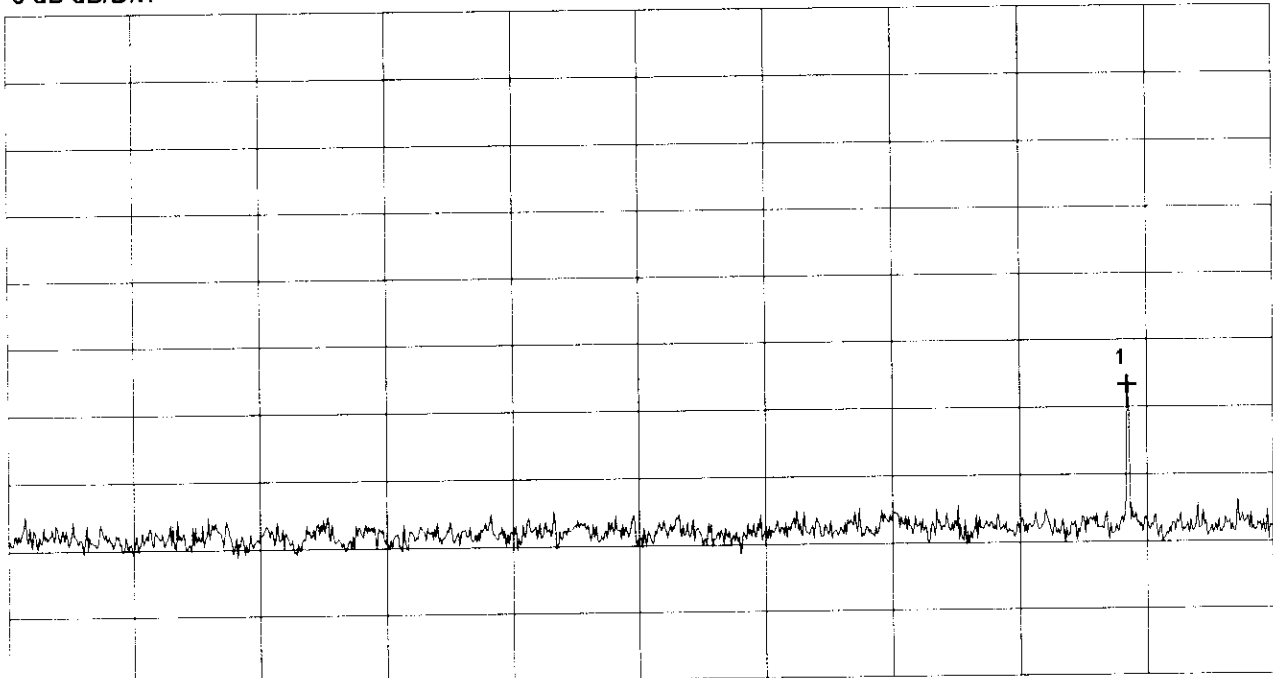
RX Mode Channel 33 (2481.5 MHz)

Test distance 3m  
Horizontal polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.415111 GHz | 18.20 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:



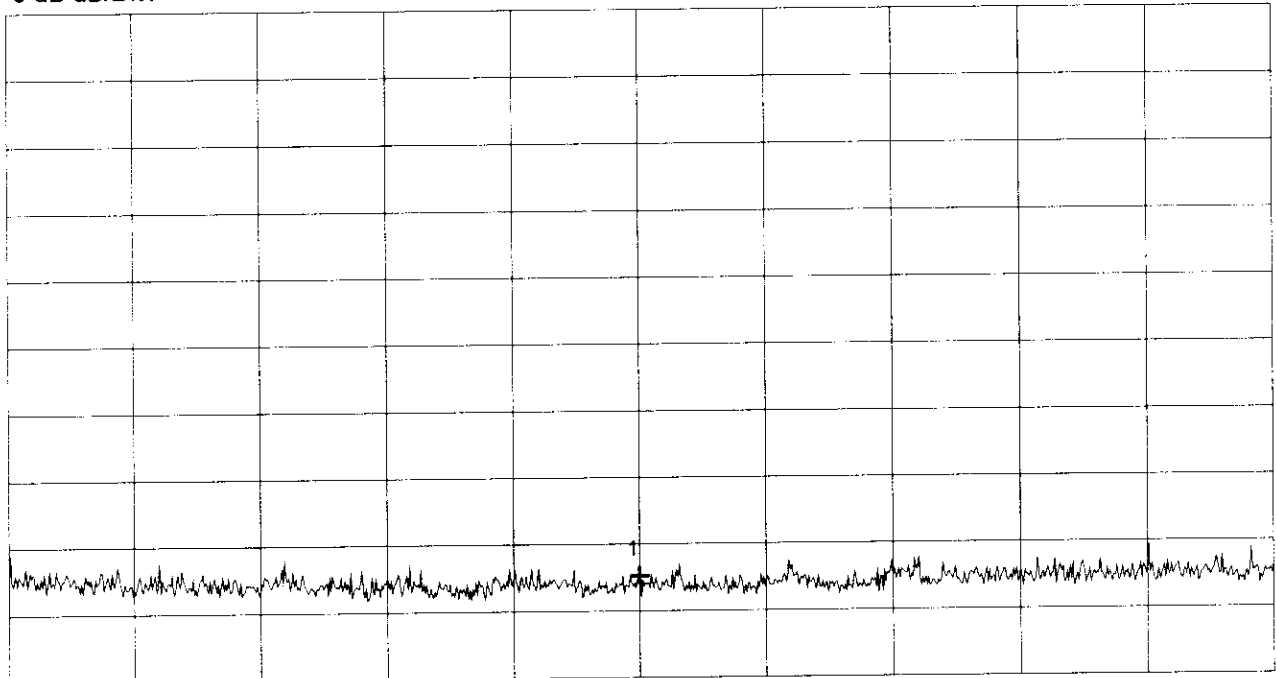
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 33 (2481.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

|                        |              |                 |
|------------------------|--------------|-----------------|
| **** Multi Marker **** |              |                 |
|                        | -----        |                 |
| Nr.1                   | 3.275000 GHz | 4.11 dB $\mu$ V |
| Nr.2                   |              |                 |
| Nr.3                   |              |                 |
| Nr.4                   |              |                 |
| Nr.5                   |              |                 |
| Nr.6                   |              |                 |
| Nr.7                   |              |                 |
| Nr.8                   |              |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

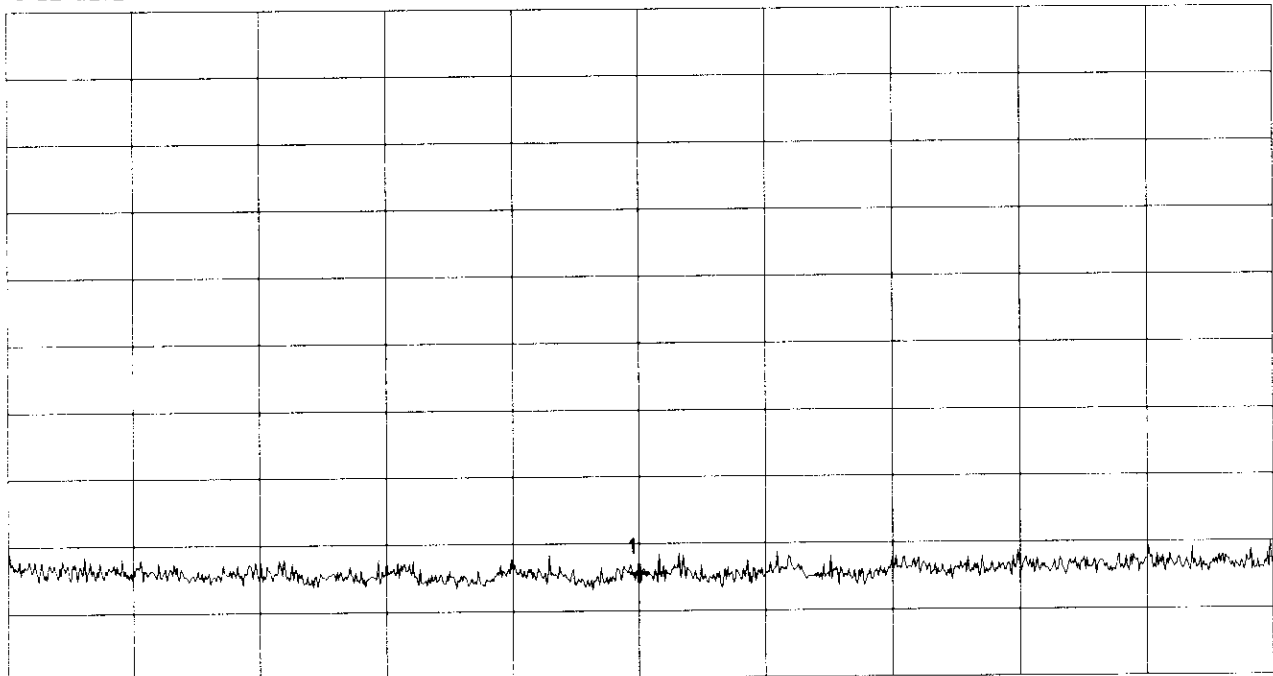
RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.275000 GHz | 4.30 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

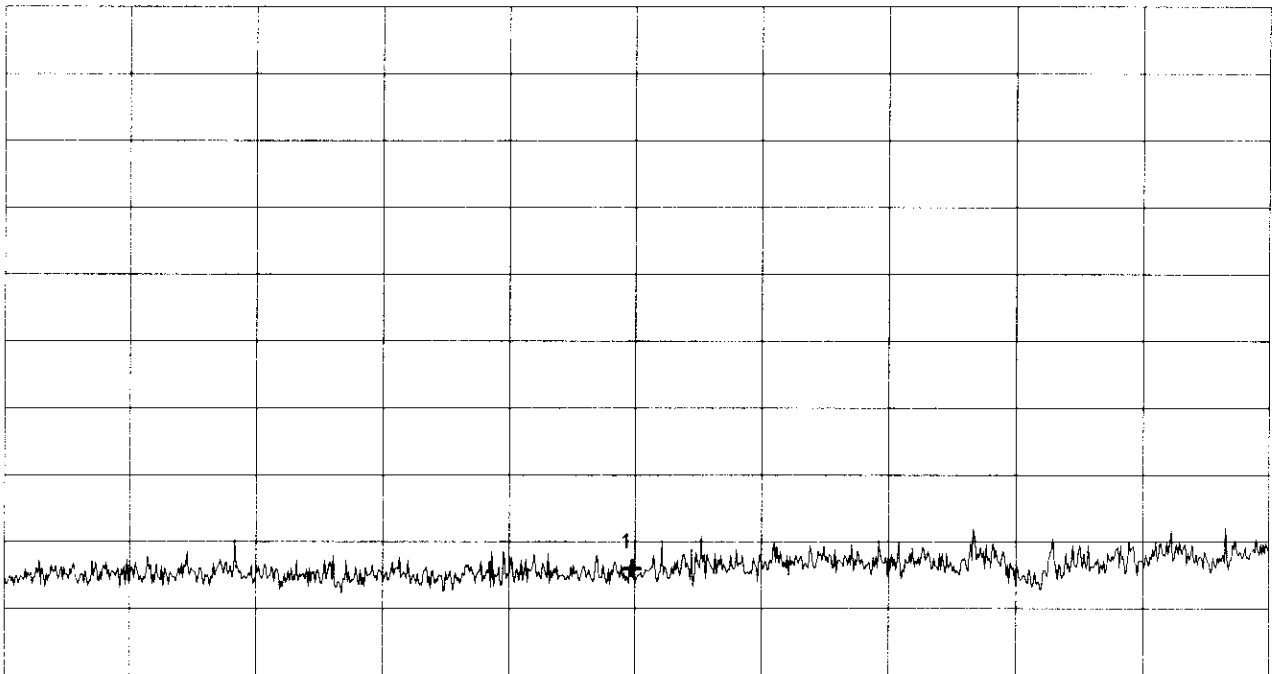
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 33 (2481.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

|                        |              |                 |
|------------------------|--------------|-----------------|
| **** Multi Marker **** |              |                 |
|                        | -----        |                 |
| Nr.1                   | 4.895778 GHz | 4.50 dB $\mu$ V |
| Nr.2                   |              |                 |
| Nr.3                   |              |                 |
| Nr.4                   |              |                 |
| Nr.5                   |              |                 |
| Nr.6                   |              |                 |
| Nr.7                   |              |                 |
| Nr.8                   |              |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

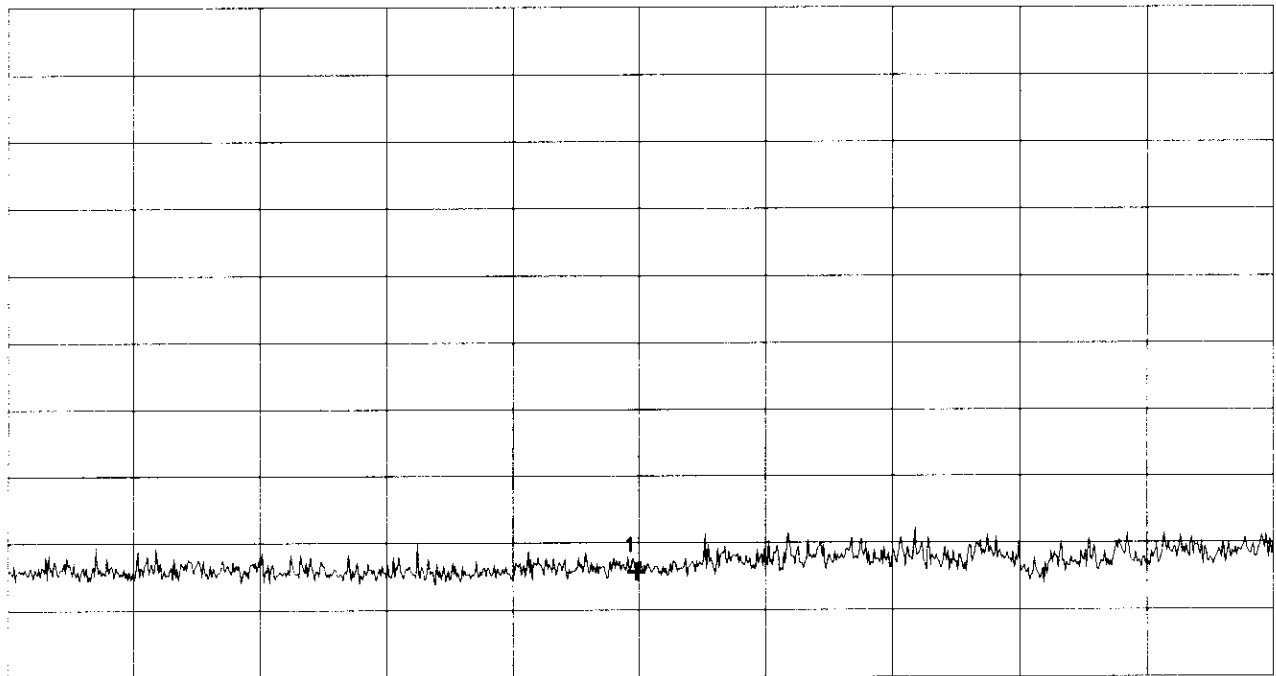
RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 4.895778 GHz | 4.31 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

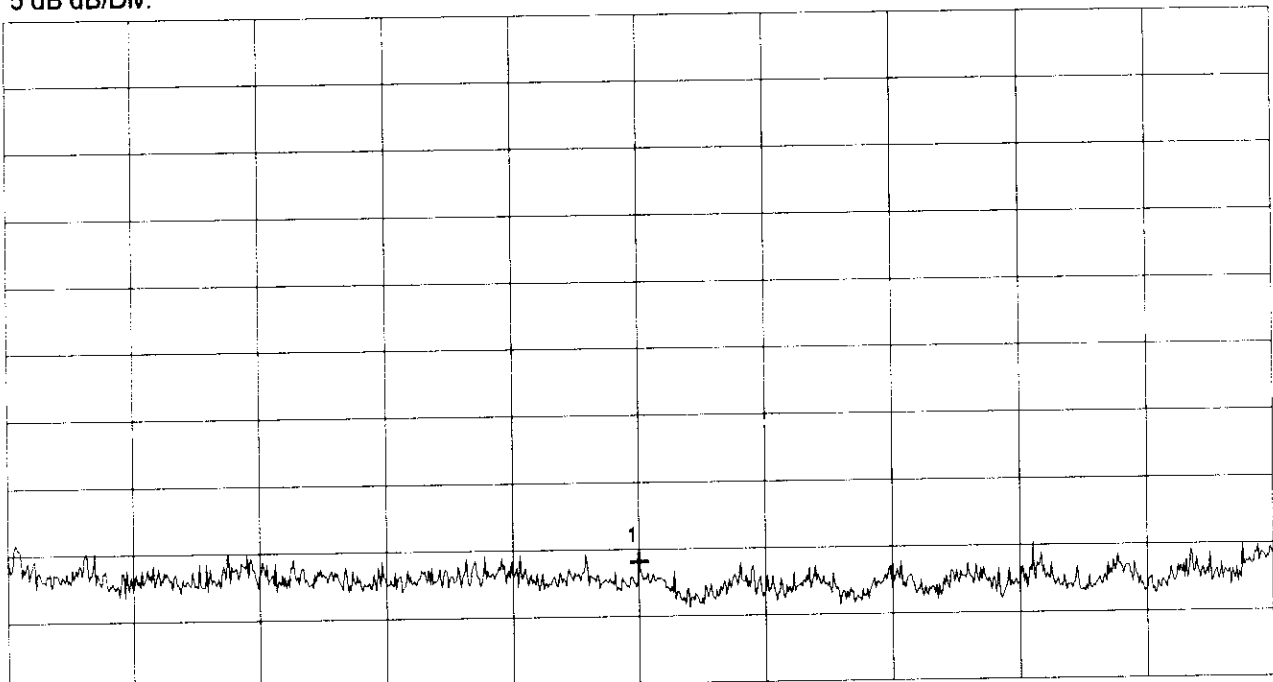
RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 7.025000 GHz | 5.58 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

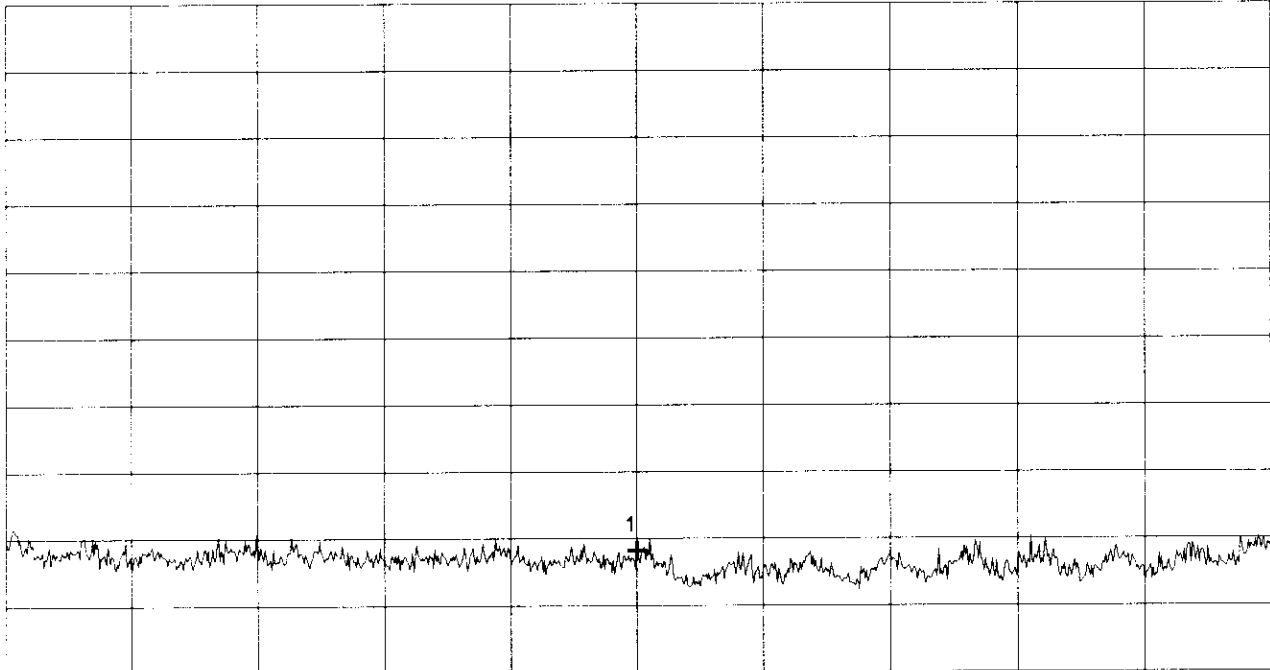
# Radiated Emission Measurement acc. to FCC Rules

|  |   |
|--|---|
| <p>Model:<br/>SRIF Module</p> <hr/> <p>Serial No.:<br/>Sample No. 1</p> <hr/> <p>Applicant:<br/>Siemens AG</p> <hr/> <hr/> <hr/> <hr/> | <p>Mode:<br/>Supply Voltage 5 V DC</p><br><p>RX Mode, Channel 33 (2481.5 MHz)</p><br><p>Test distance 3 m<br/>Vertical Polarization</p> |
|--|---|

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

|  |                       |                 |
|--|-----------------------|-----------------|
| **** Multi Marker ****                                       |                       |                 |
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br>7.025000 GHz | 5.58 dB $\mu$ V |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

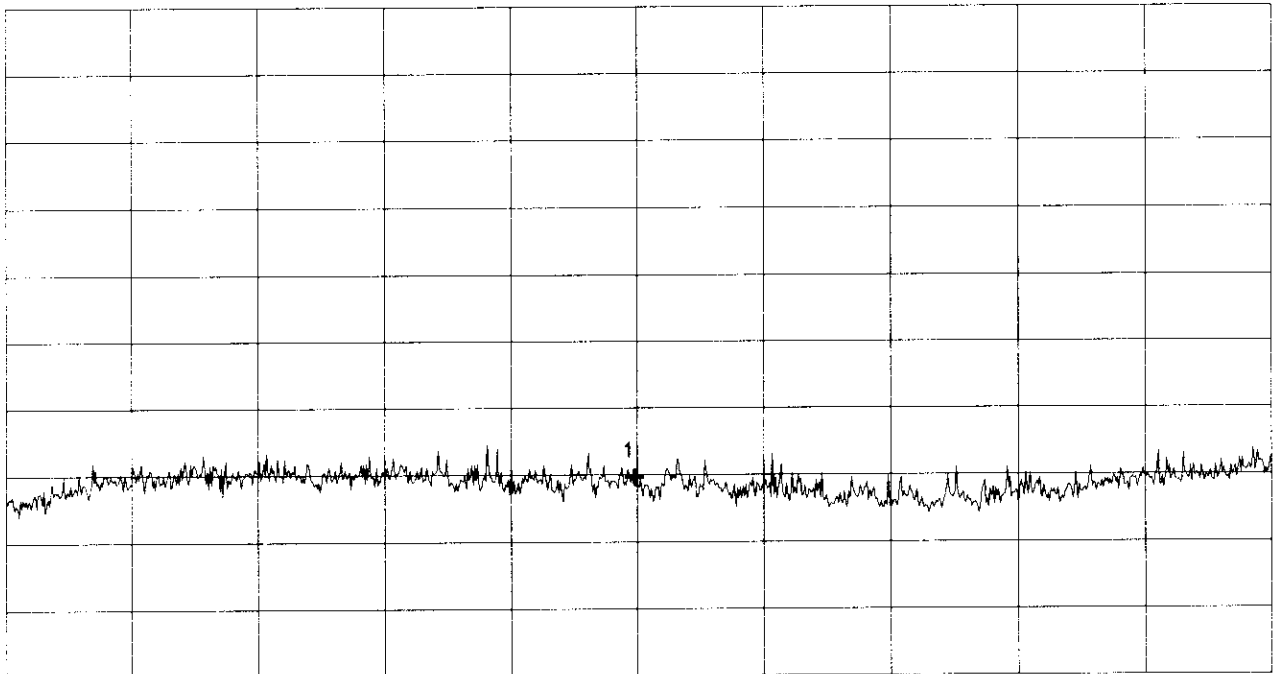
RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 10.290667 GHz | 6.81 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

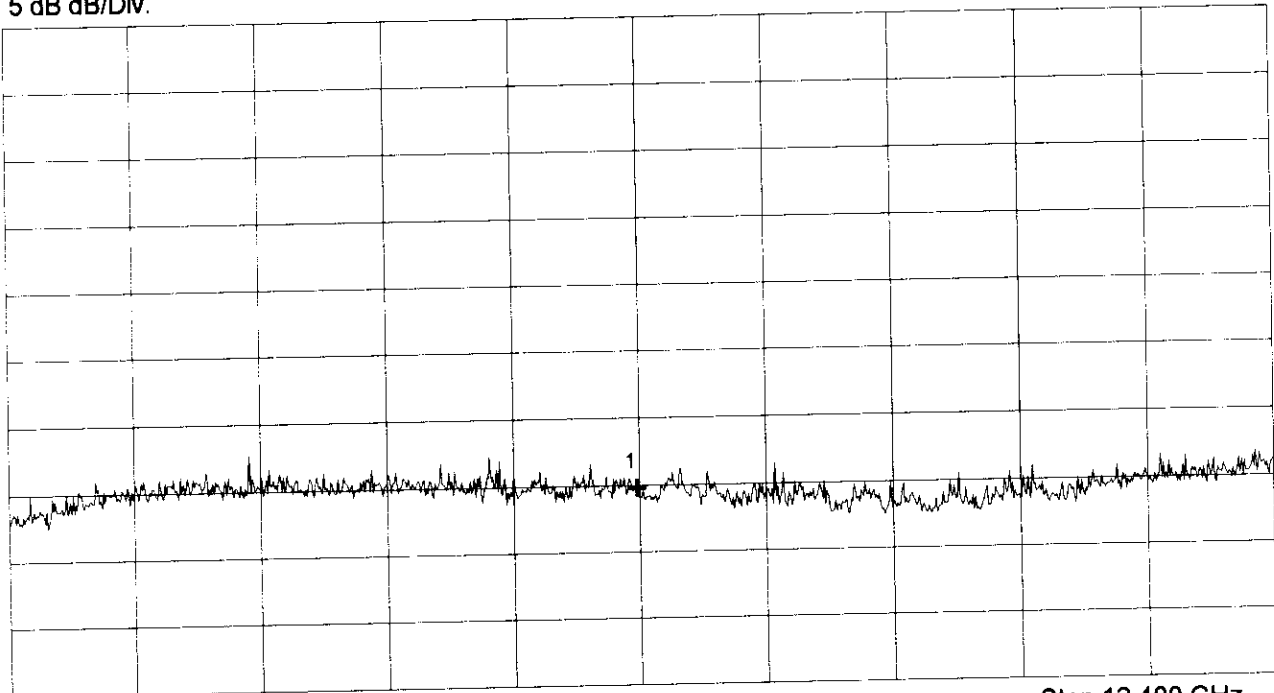
RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Level (dB $\mu$ V) |
|------|-----------------|--------------------|
| Nr.1 | 10.290667       | 6.81               |
| Nr.2 |                 |                    |
| Nr.3 |                 |                    |
| Nr.4 |                 |                    |
| Nr.5 |                 |                    |
| Nr.6 |                 |                    |
| Nr.7 |                 |                    |
| Nr.8 |                 |                    |

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emission Measurement acc. to FCC Rules

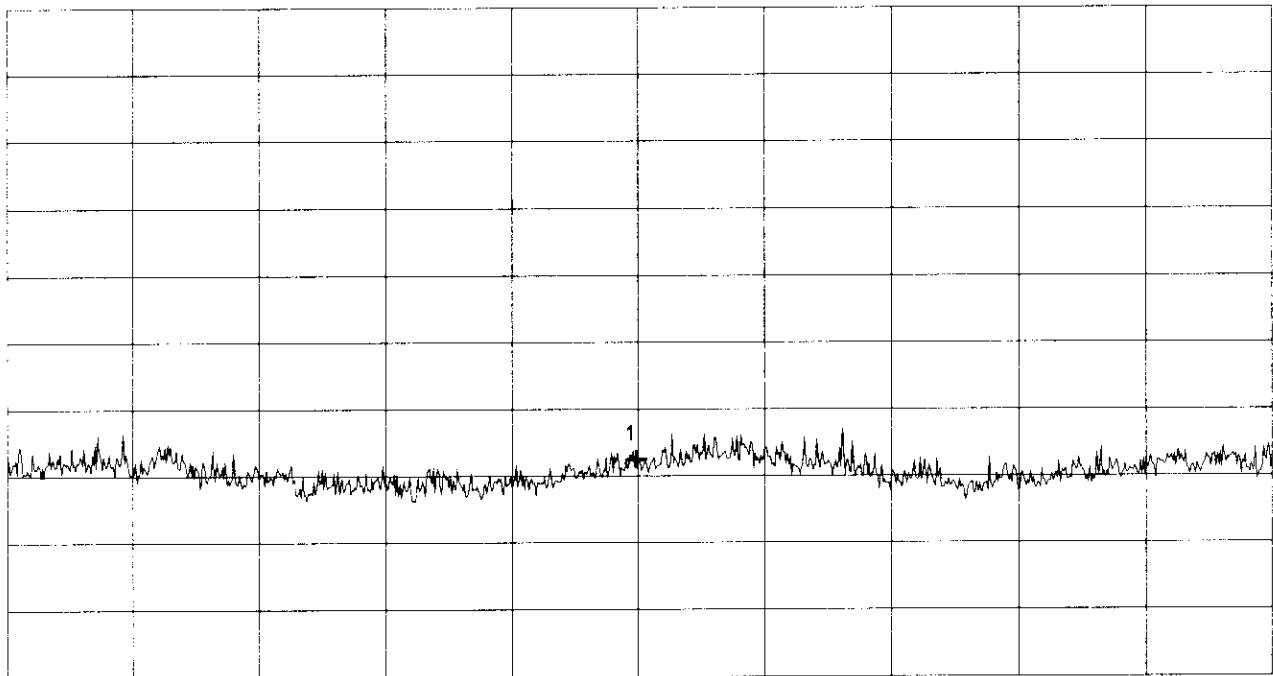
|                             |
|-----------------------------|
| Model:<br>SRIF Module       |
| Serial No.:<br>Sample No. 1 |
| Applicant:<br>Siemens AG    |
|                             |
|                             |
|                             |
|                             |

|  |
|--|
| Mode:<br>Supply Voltage 5 V DC               |
| RX Mode, Channel 33 (2481.5 MHz)             |
| Test distance 3 m<br>Horizontal Polarization |

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 15.193778 GHz | 8.23 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

|                            |
|----------------------------|
| Tested by:<br>Johann Roidt |
|----------------------------|

|              |
|--------------|
| Project-No.: |
|--------------|

|       |
|-------|
| Date: |
|-------|

|               |
|---------------|
| Page of pages |
|---------------|

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

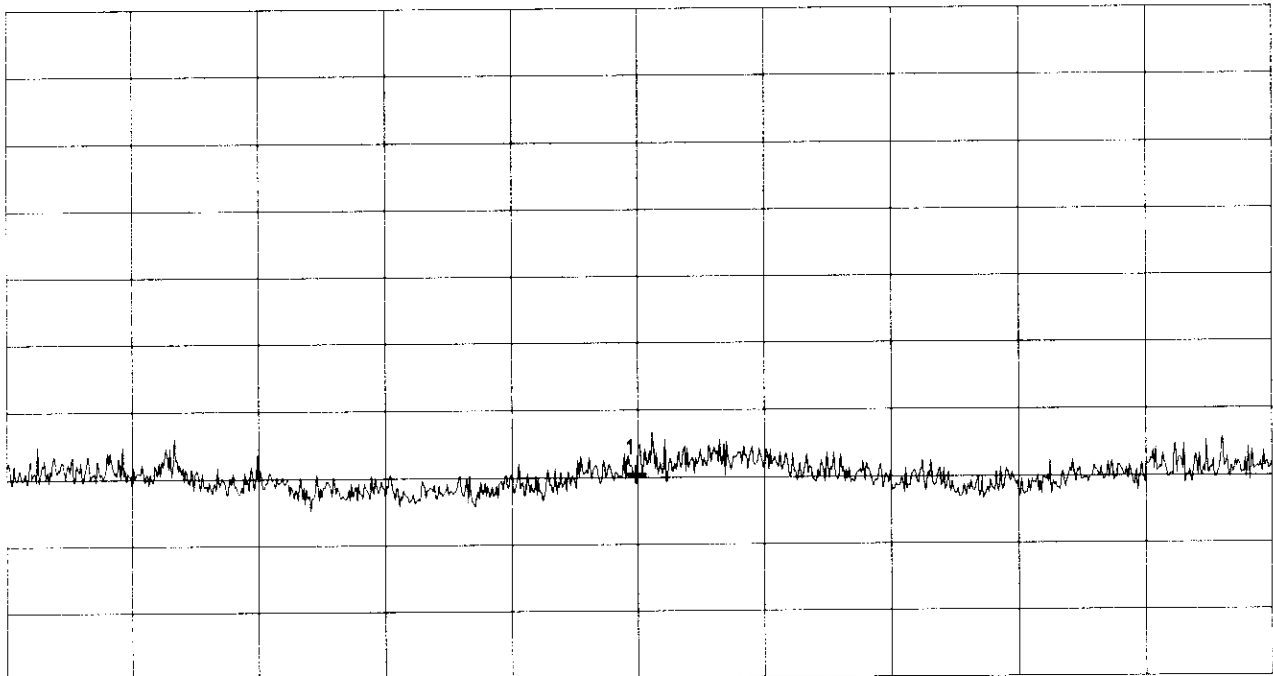
RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 15.193778 GHz | 7.22 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

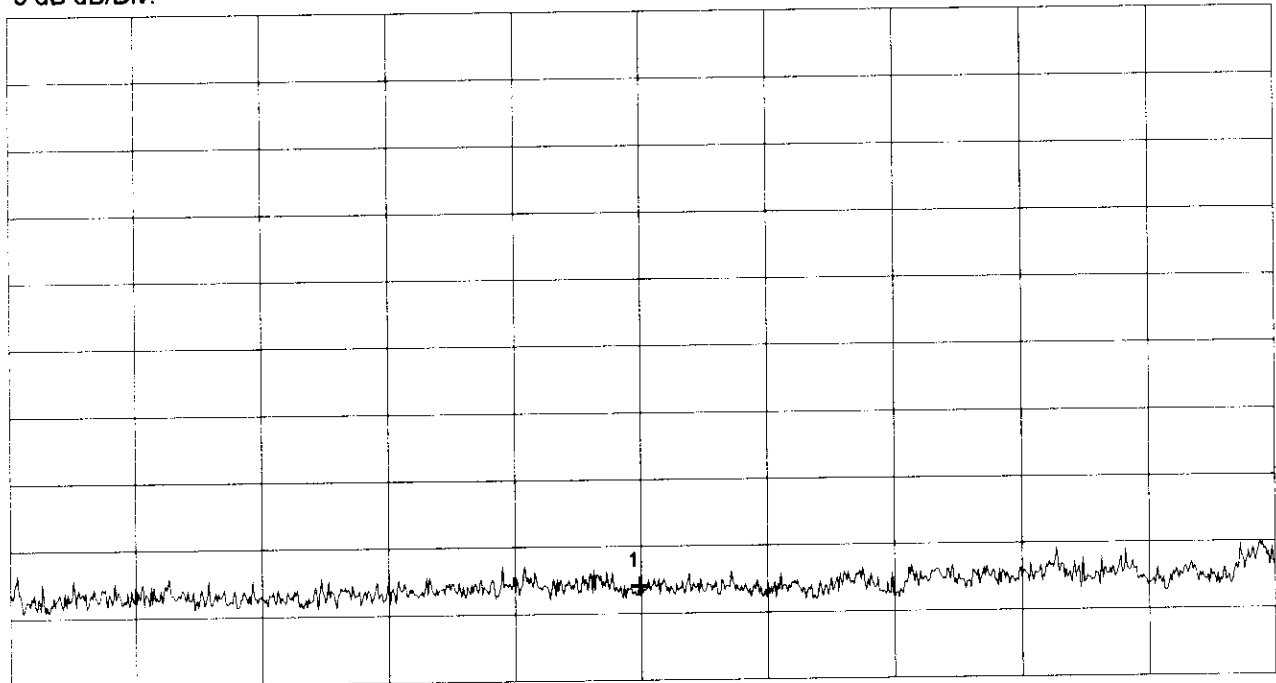
Date:

# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 33 (2481.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 1 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

|                        |               |                  |
|------------------------|---------------|------------------|
| **** Multi Marker **** |               |                  |
|                        | -----         |                  |
| Nr.1                   | 22.240556 GHz | 18.99 dB $\mu$ V |
| Nr.2                   |               |                  |
| Nr.3                   |               |                  |
| Nr.4                   |               |                  |
| Nr.5                   |               |                  |
| Nr.6                   |               |                  |
| Nr.7                   |               |                  |
| Nr.8                   |               |                  |

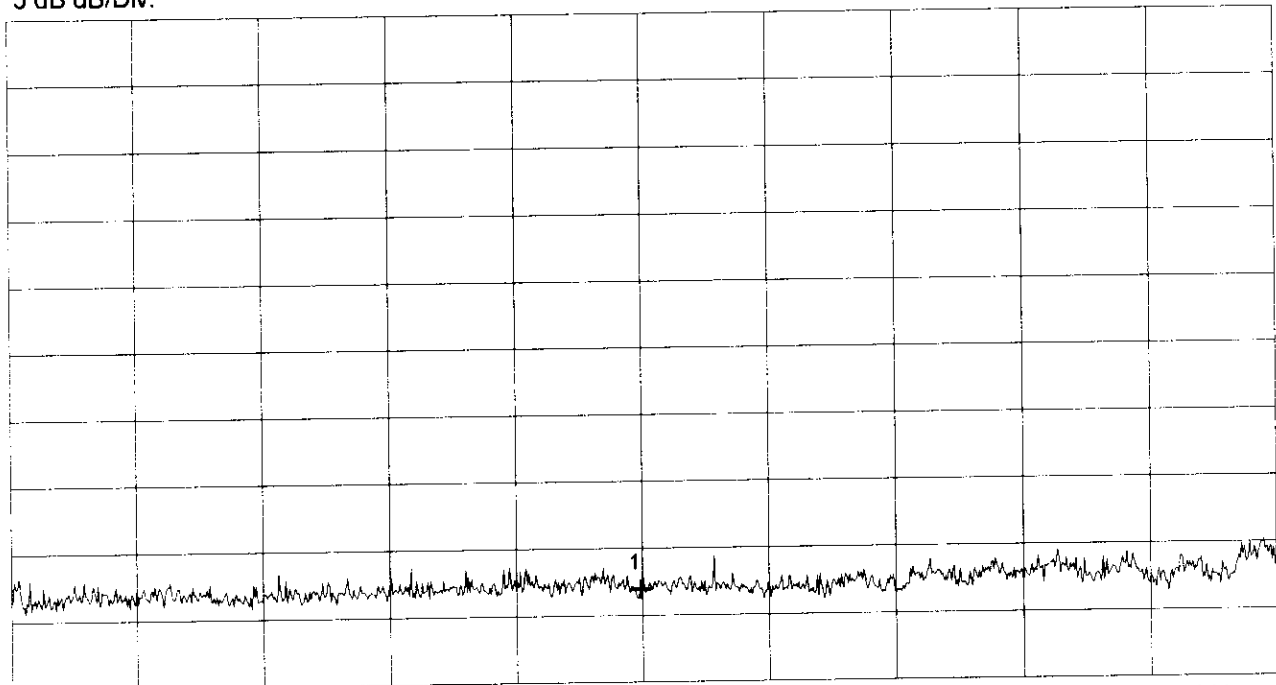
|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 33 (2481.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 1 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

|                        |               |                  |
|------------------------|---------------|------------------|
| **** Multi Marker **** |               |                  |
| Nr.1                   | 22.240556 GHz | 18.99 dB $\mu$ V |
| Nr.2                   |               |                  |
| Nr.3                   |               |                  |
| Nr.4                   |               |                  |
| Nr.5                   |               |                  |
| Nr.6                   |               |                  |
| Nr.7                   |               |                  |
| Nr.8                   |               |                  |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

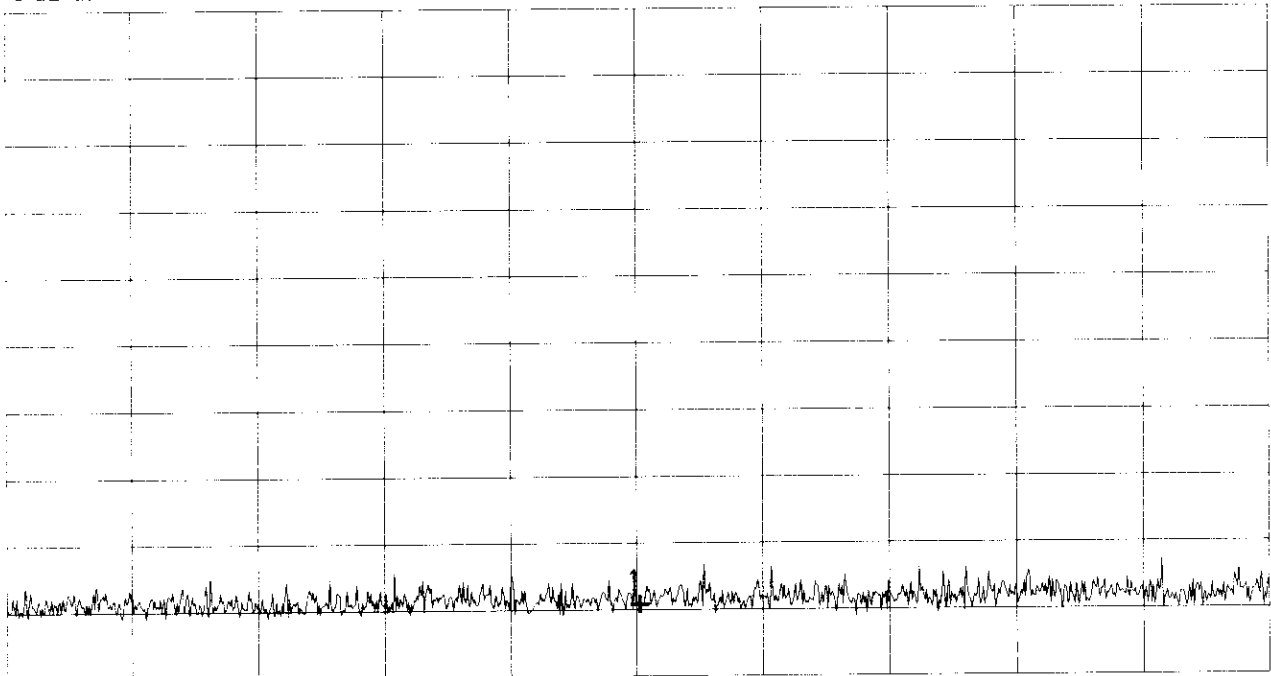
Mode:  
Supply voltage 5 V DC

RX mode, channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.600000 MHz | 2.41 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

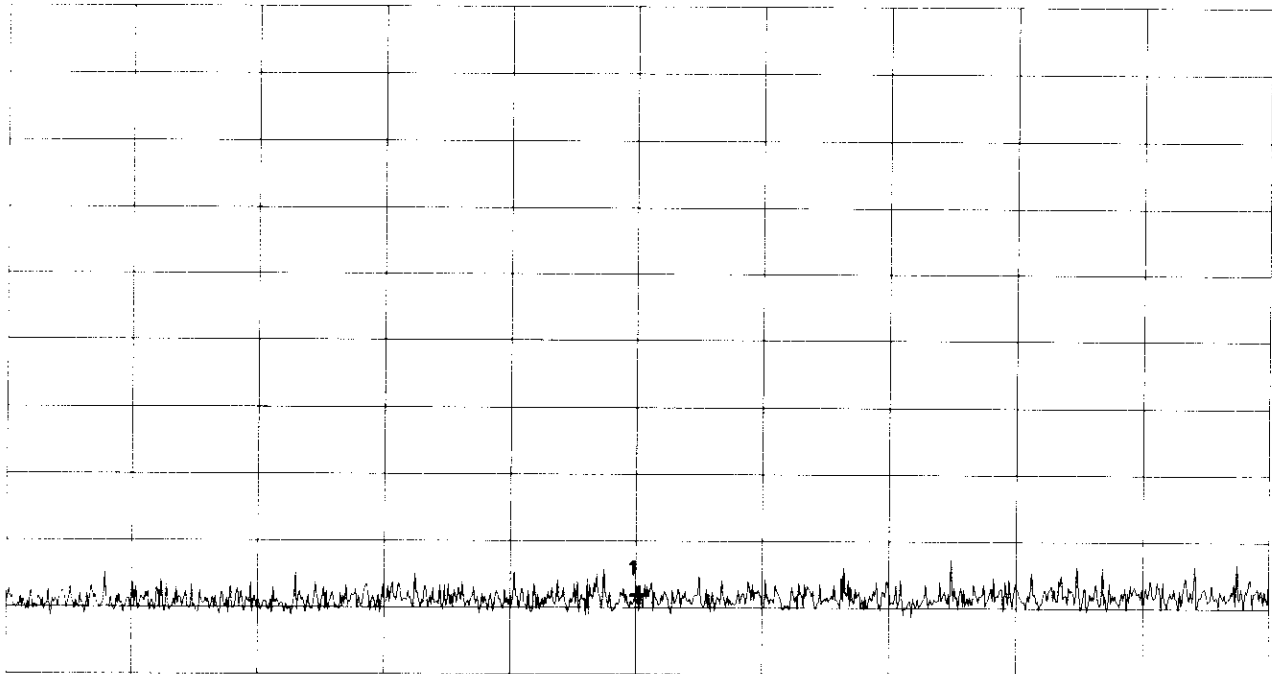
Mode:  
Supply voltage 5 V DC

RX mode, channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.600000 MHz | 2.92 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

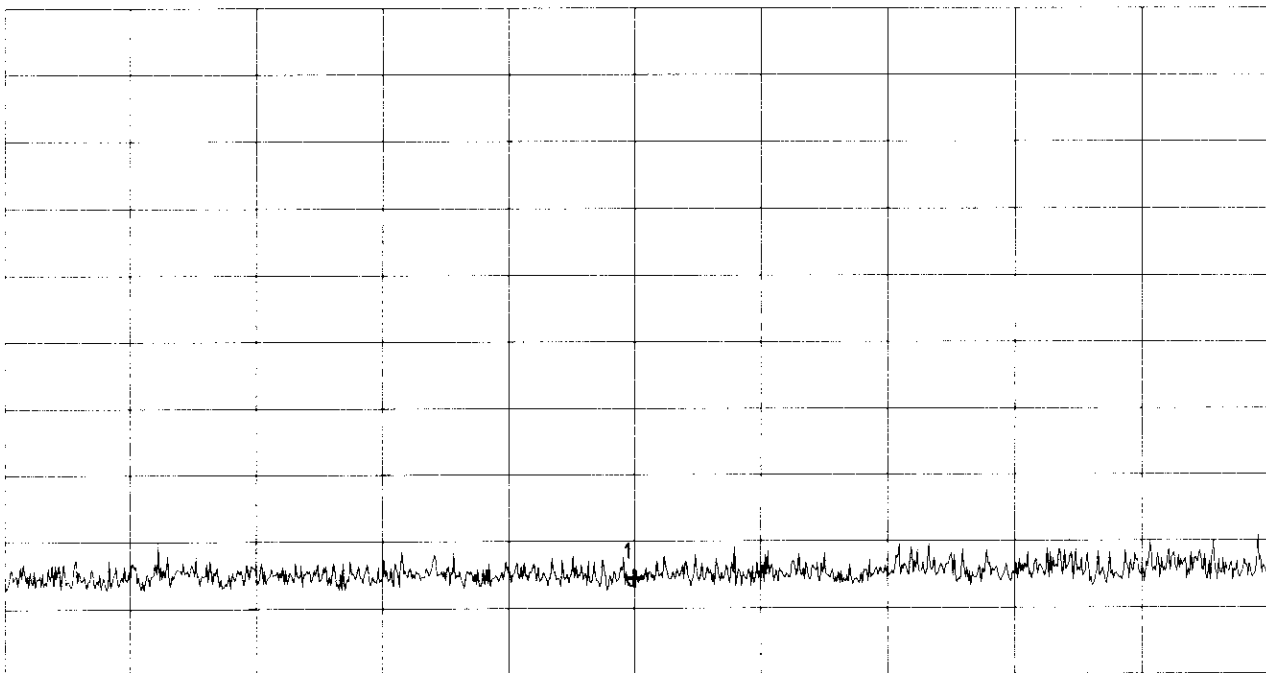
Date:

# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX mode, channel 27 (2466.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Vertical polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 650.000000 MHz | 4.24 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

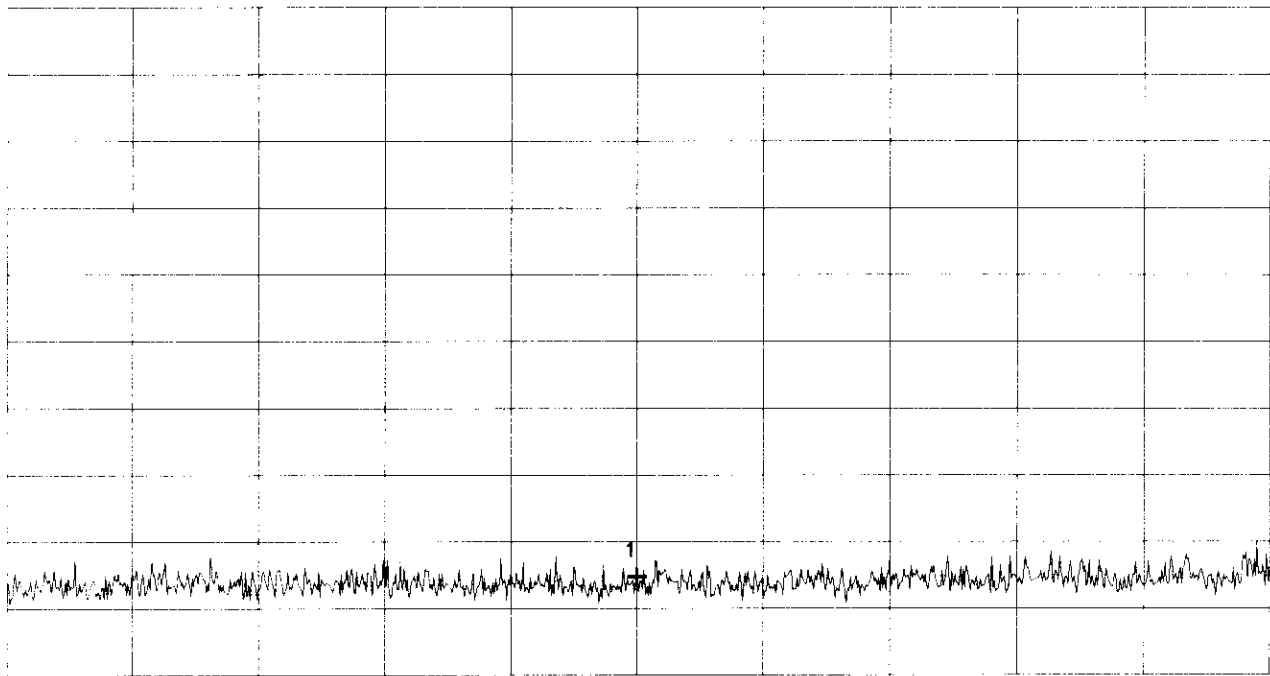
|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emissions Measurement acc. to FCC Rules

|                              |  |
|------------------------------|--|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply voltage 5 V DC               |
| Serial No.:<br>Sample No. 1  | RX mode, channel 27 (2466.5 MHz)             |
| Applicant:<br>Siemens AG     | Test distance 3 m<br>Horizontal polarization |
|                              |  |
|                              |  |
|                              |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
|      | -----          |                 |
| Nr.1 | 650.000000 MHz | 4.34 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |



# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

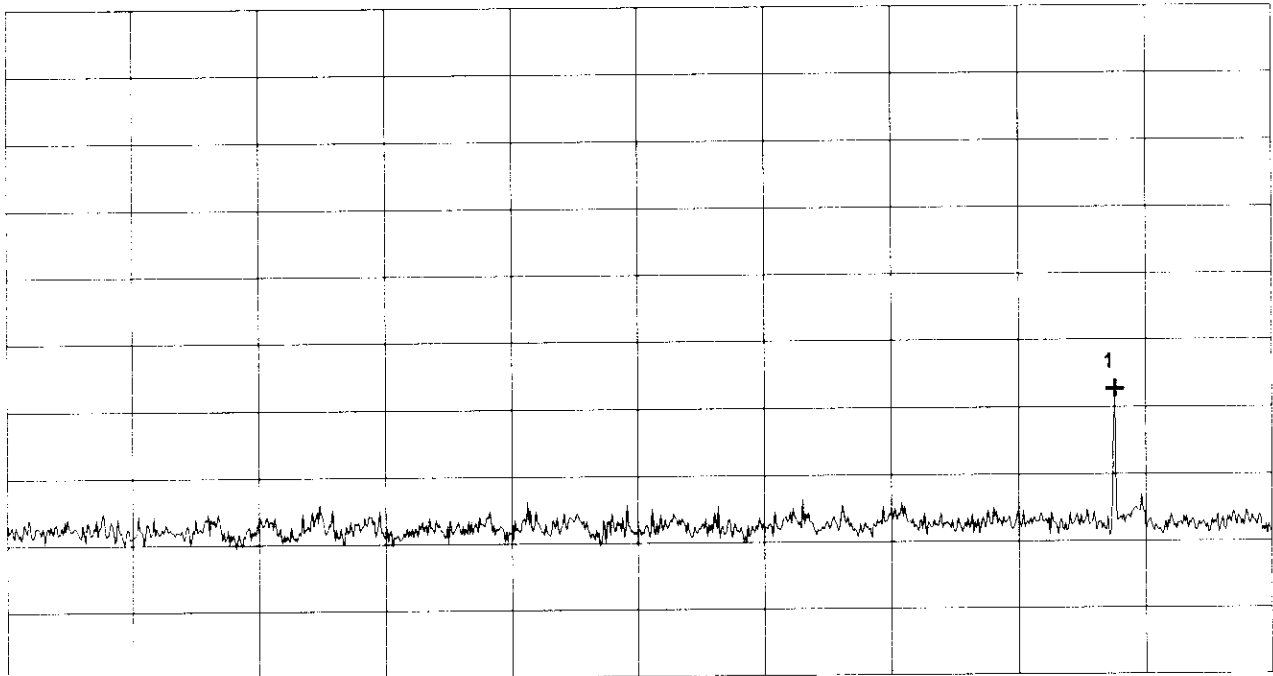
RX Mode Channel 27 (2466.5 MHz)

Test distance 3m  
Horizontal polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      | Frequency    | Amplitude        |
|------|--------------|------------------|
| Nr.1 | 2.400889 GHz | 17.89 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

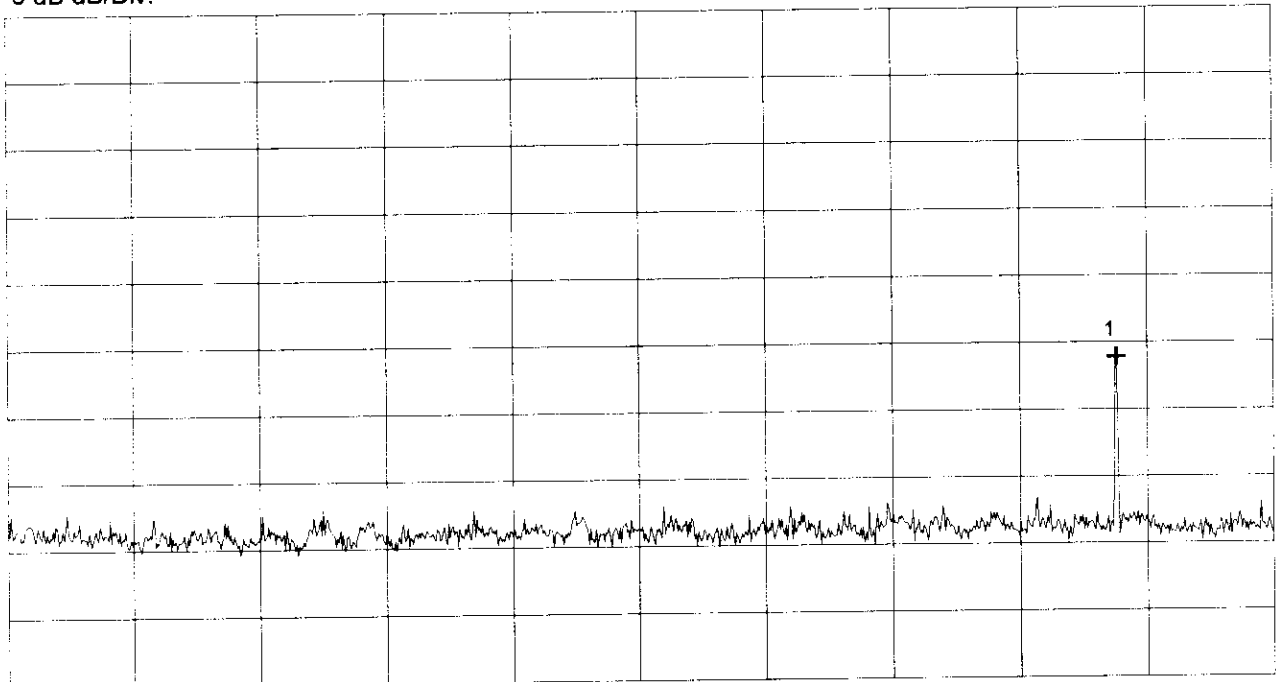
RX Mode Channel 27 (2466.5 MHz)

Test distance 3m  
Vertical polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.400889 GHz | 20.41 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

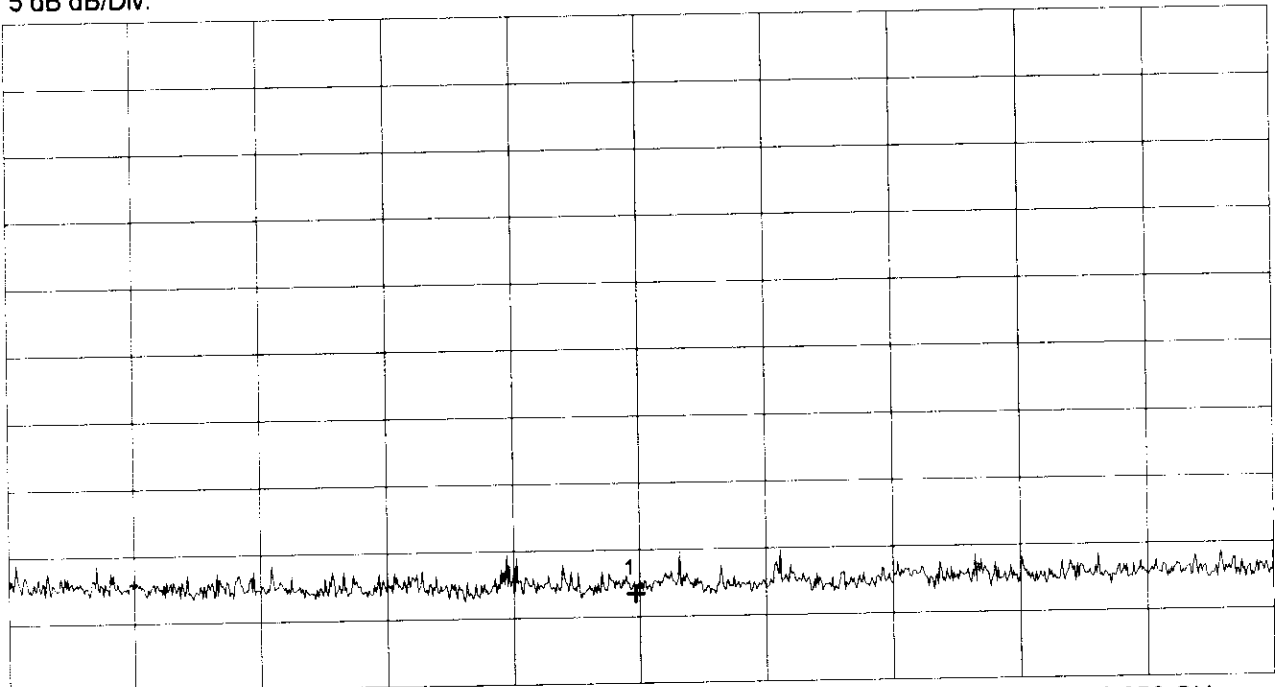
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.270500 GHz | 3.20 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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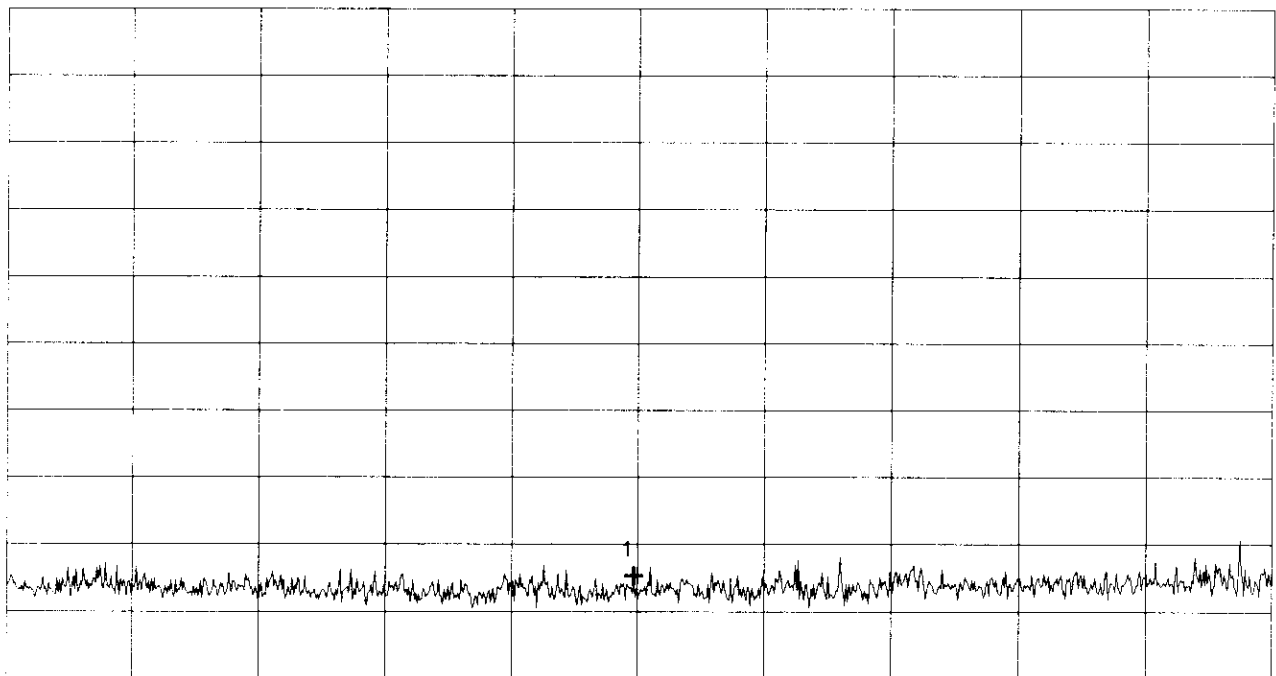
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| <b>Model:</b><br>SRIF Module       | <b>Mode:</b><br>Supply Voltage 5 V DC      |
| <b>Serial No.:</b><br>Sample No. 1 | RX Mode, Channel 27 (2466.5 MHz)           |
| <b>Applicant:</b><br>Siemens AG    | Test distance 3 m<br>Vertical Polarization |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
|      | 3.270500 GHz | 4.15 dB $\mu$ V |
| Nr.1 |              |                 |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

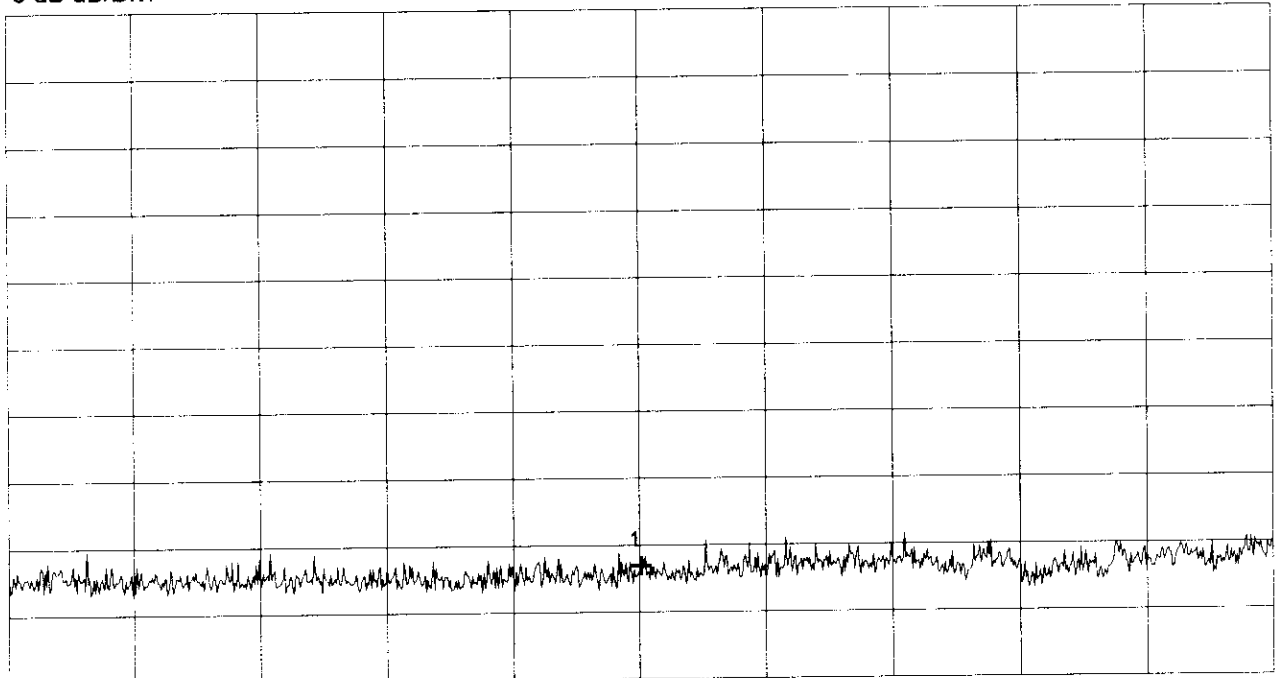
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 4.902111 GHz | 4.95 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

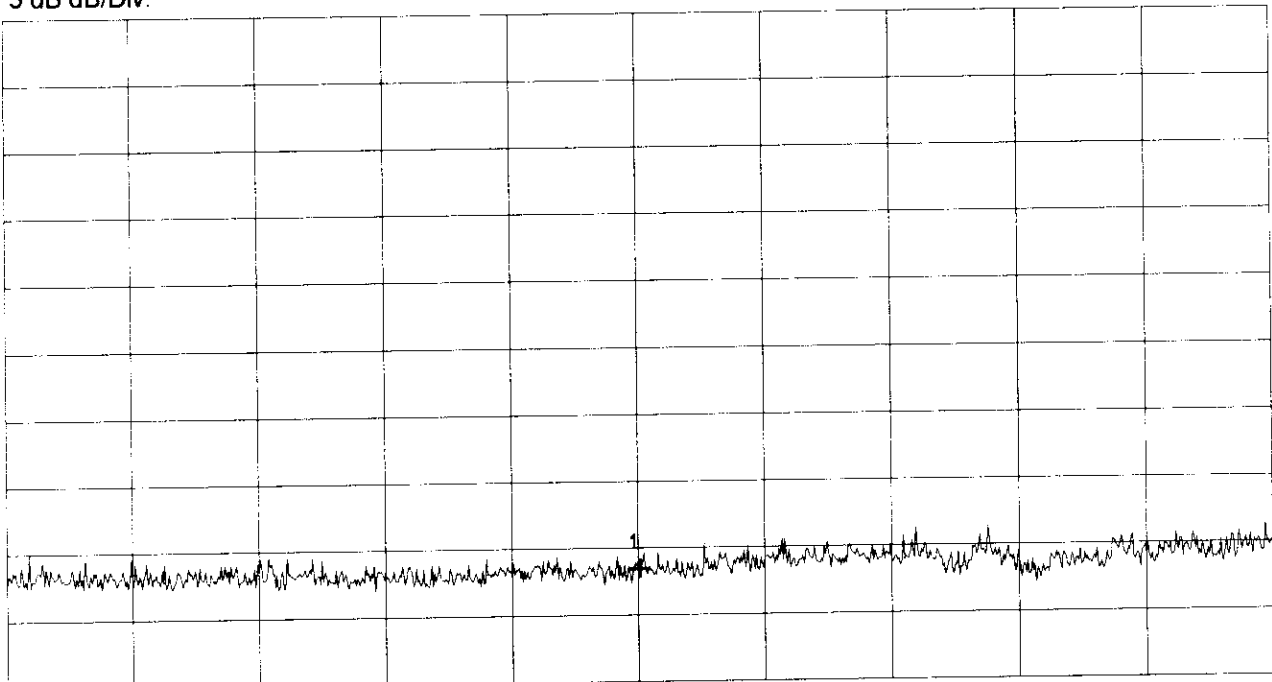
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 4.902111 GHz | 4.95 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

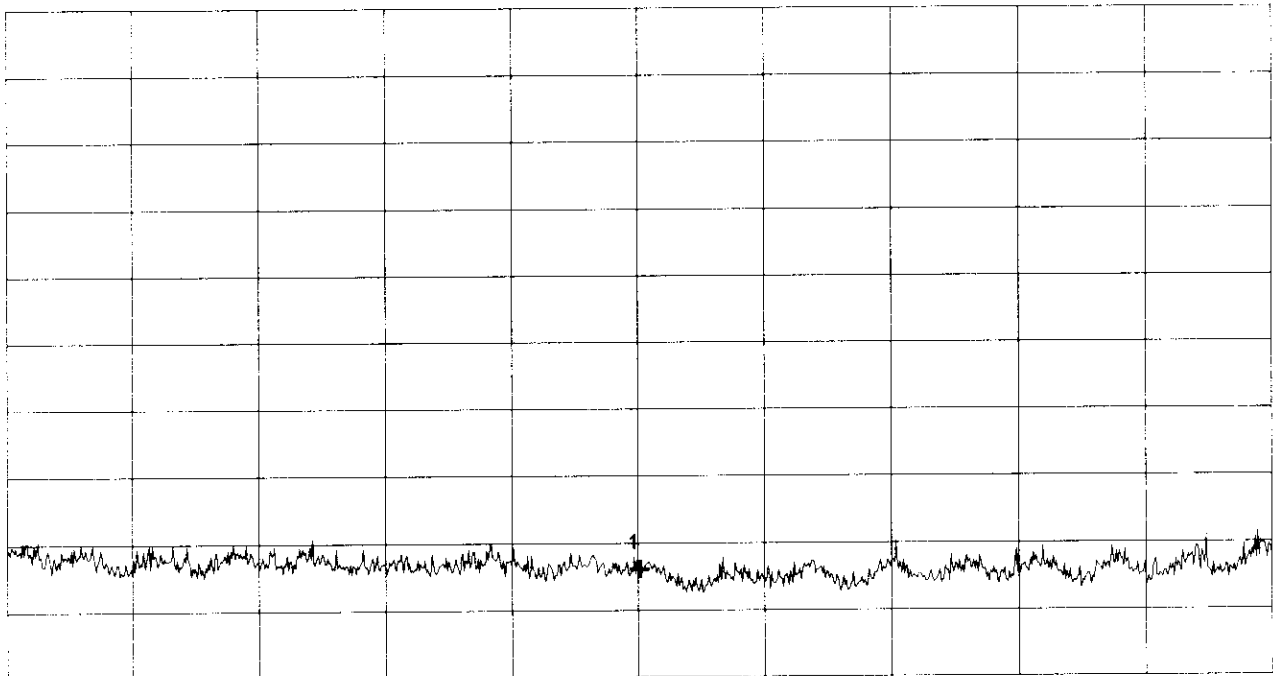
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|  |                       |                 |
|--|-----------------------|-----------------|
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br>7.027611 GHz | 4.55 dB $\mu$ V |
|--|-----------------------|-----------------|

Tested by:  
Johann Roidt

Date:

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

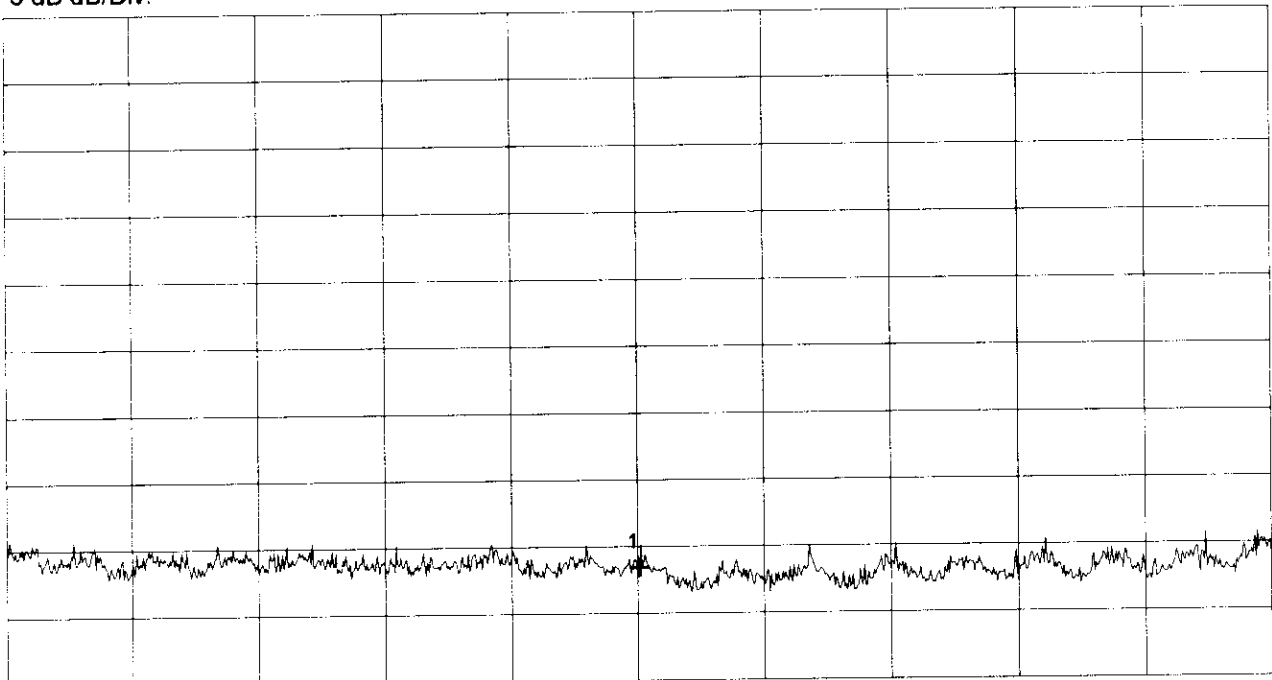
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 7.027611 GHz | 4.91 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

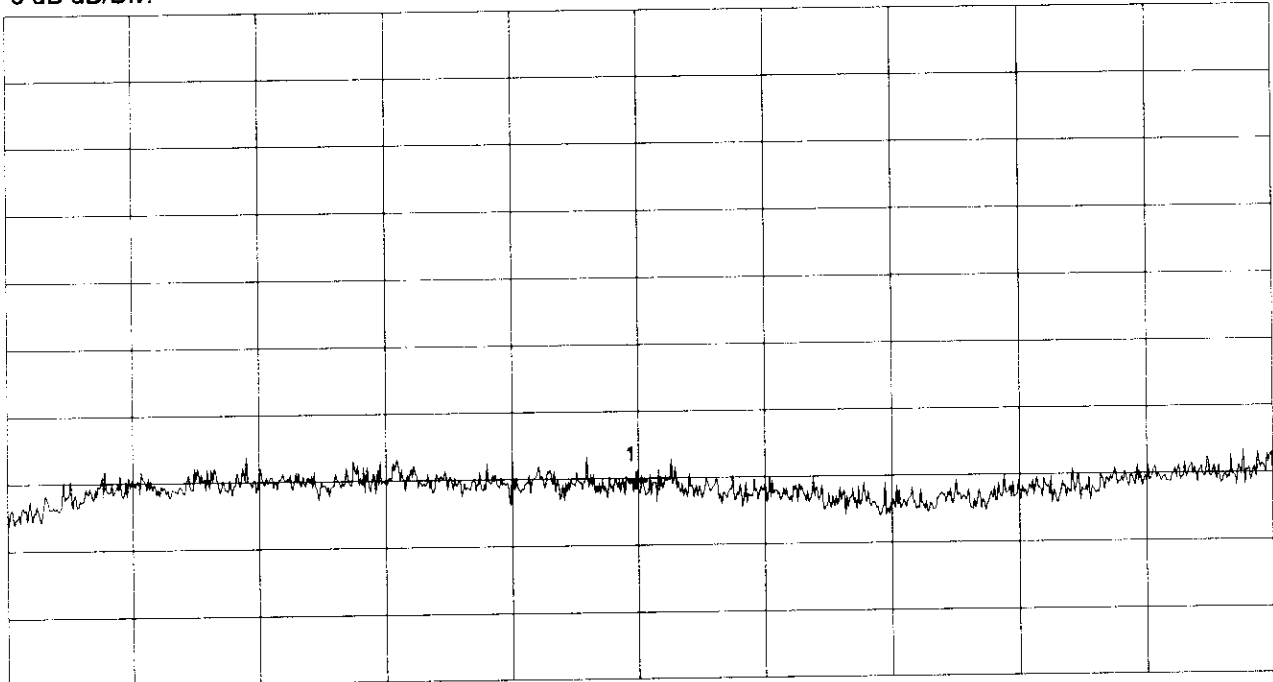
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 10.295333 GHz | 6.81 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

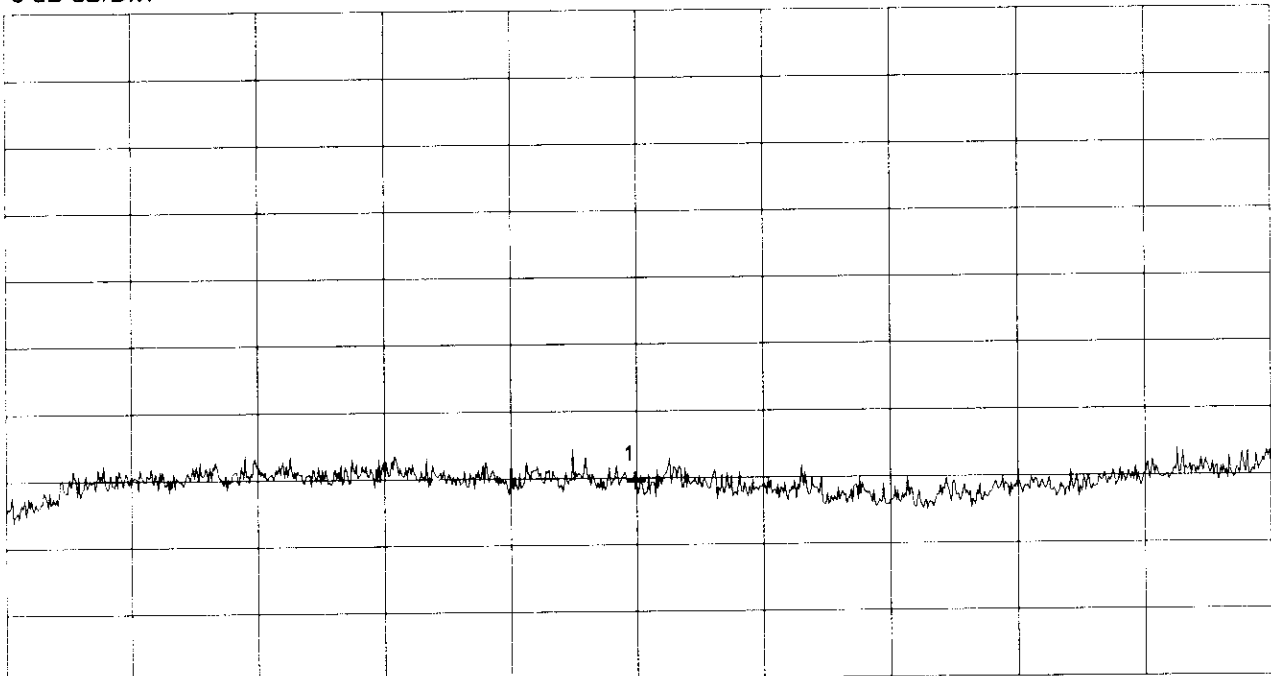
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 10.295333 GHz | 6.81 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

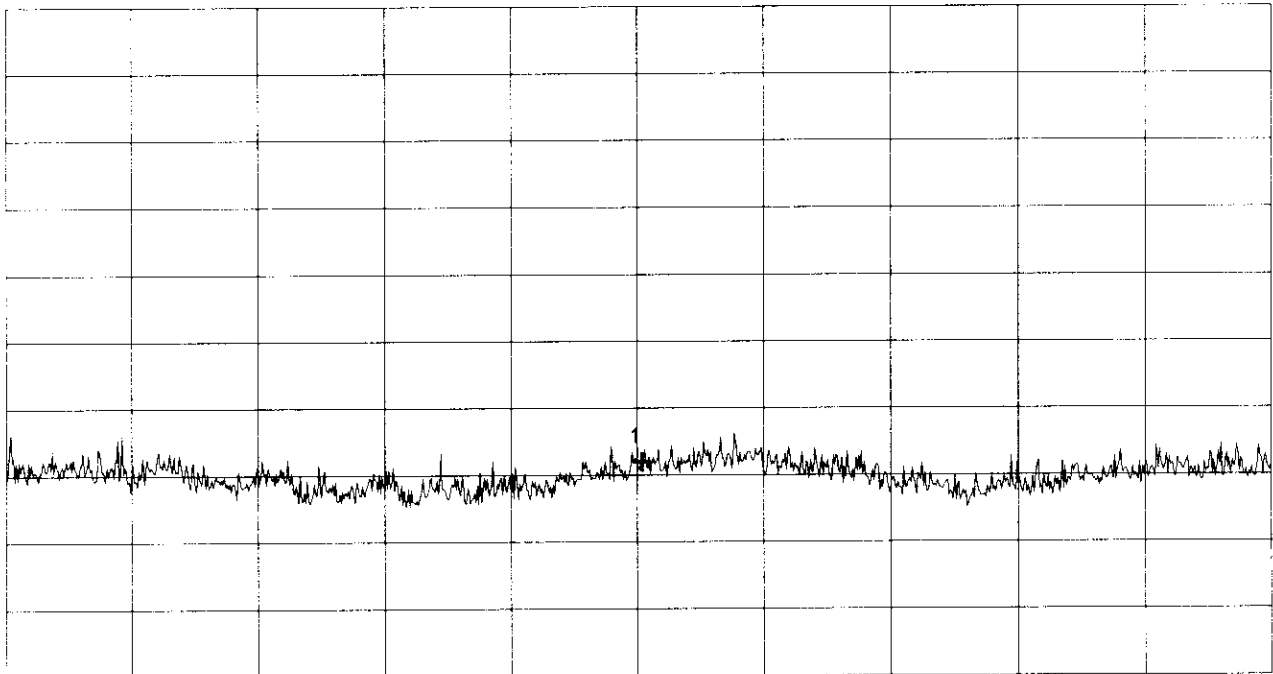
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 15.218667 GHz | 7.98 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

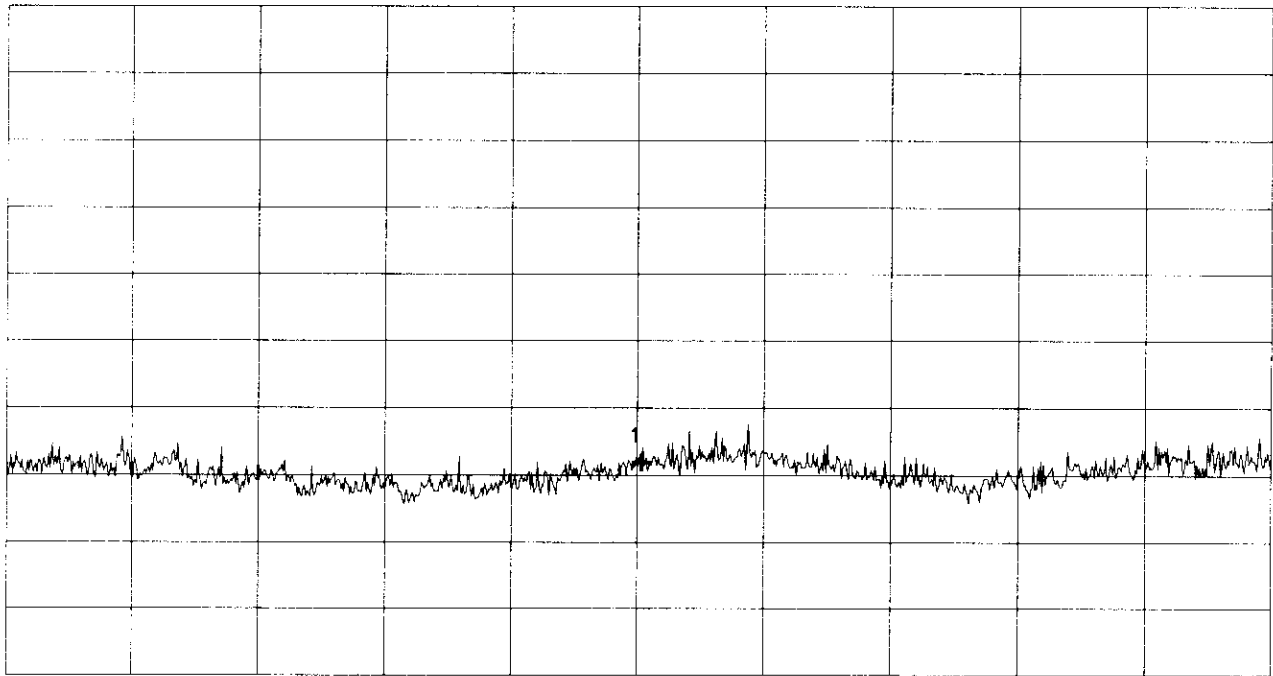
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| <b>Model:</b><br>SRIF Module       | <b>Mode:</b><br>Supply Voltage 5 V DC      |
| <b>Serial No.:</b><br>Sample No. 1 | RX Mode, Channel 27 (2466.5 MHz)           |
| <b>Applicant:</b><br>Siemens AG    | Test distance 3 m<br>Vertical Polarization |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 15.218667 GHz | 7.96 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

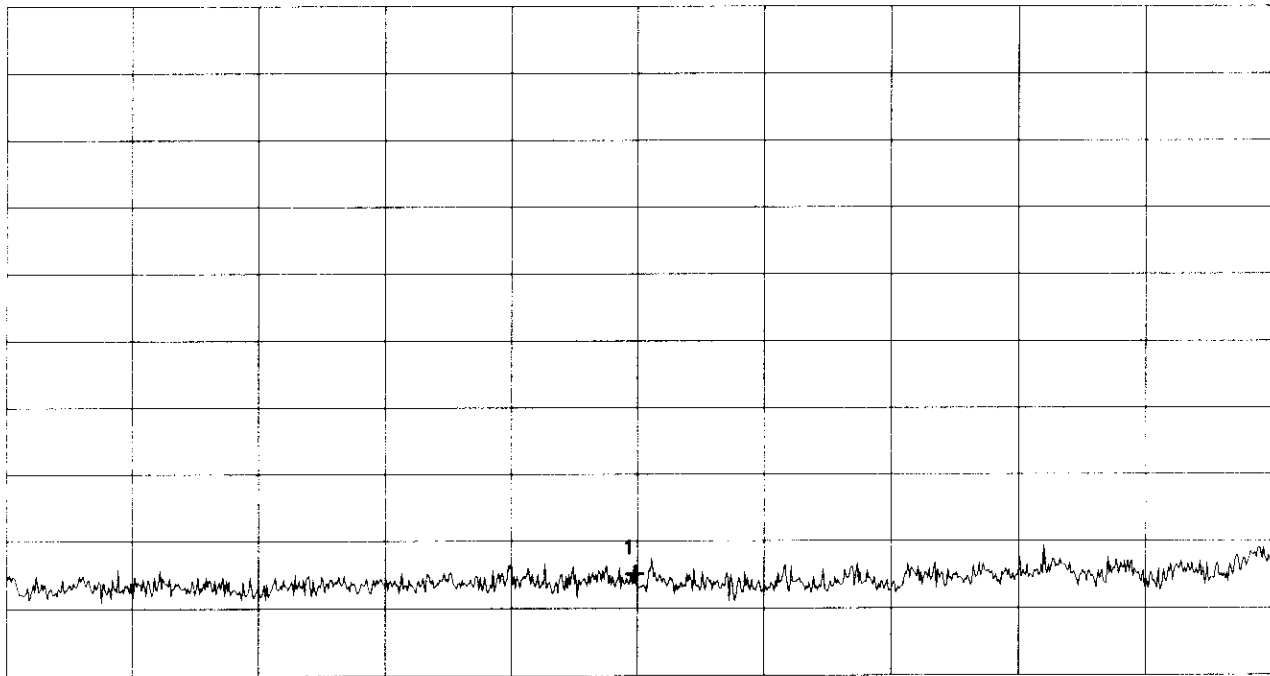
Date:

# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 27 (2466.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 1 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
|      | -----         |                  |
| Nr.1 | 22.231111 GHz | 19.48 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

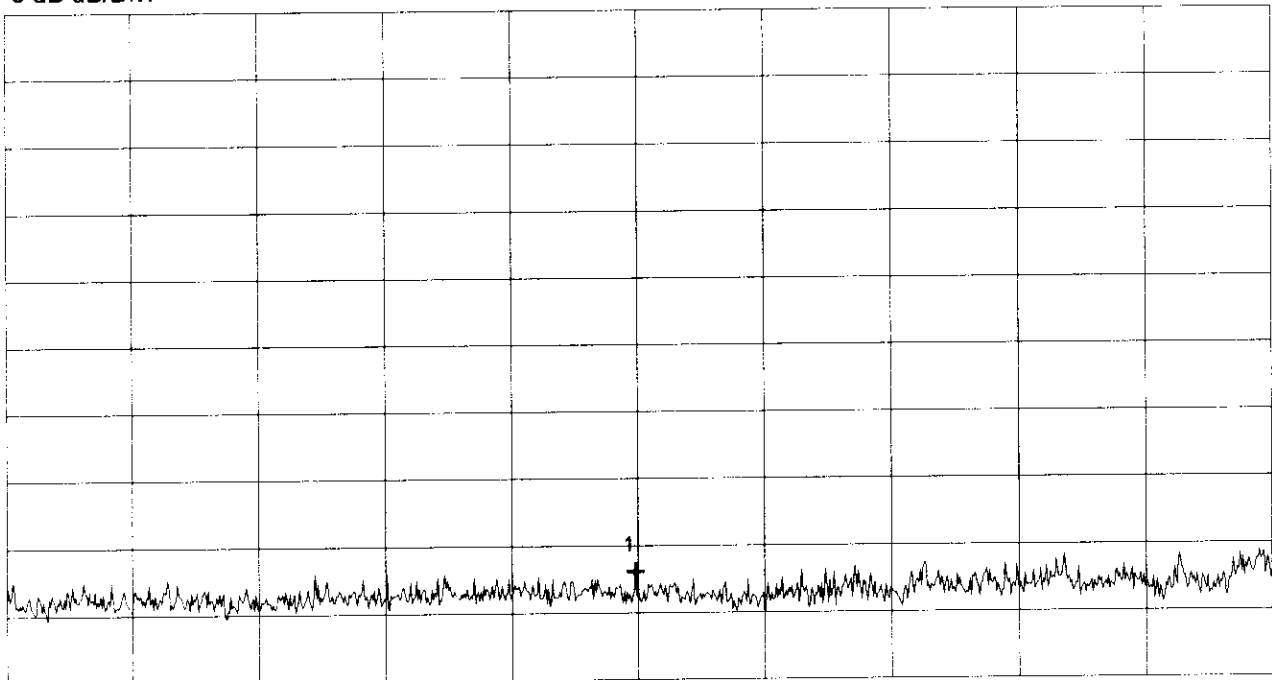
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 27 (2466.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      | Frequency (GHz) | Amplitude (dB $\mu$ V) |
|------|-----------------|------------------------|
| Nr.1 | 22.231111       | 20.09                  |
| Nr.2 |                 |                        |
| Nr.3 |                 |                        |
| Nr.4 |                 |                        |
| Nr.5 |                 |                        |
| Nr.6 |                 |                        |
| Nr.7 |                 |                        |
| Nr.8 |                 |                        |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

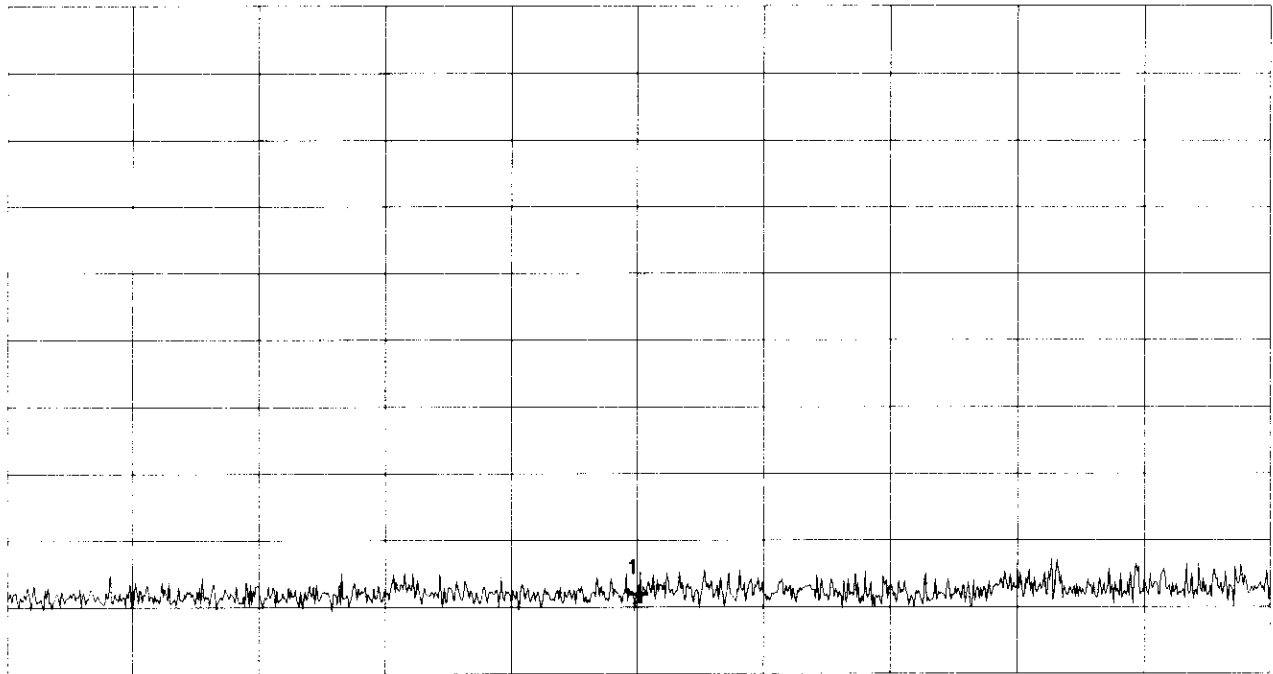
Mode:  
Supply voltage 5 V DC

RX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 2.96 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Date:

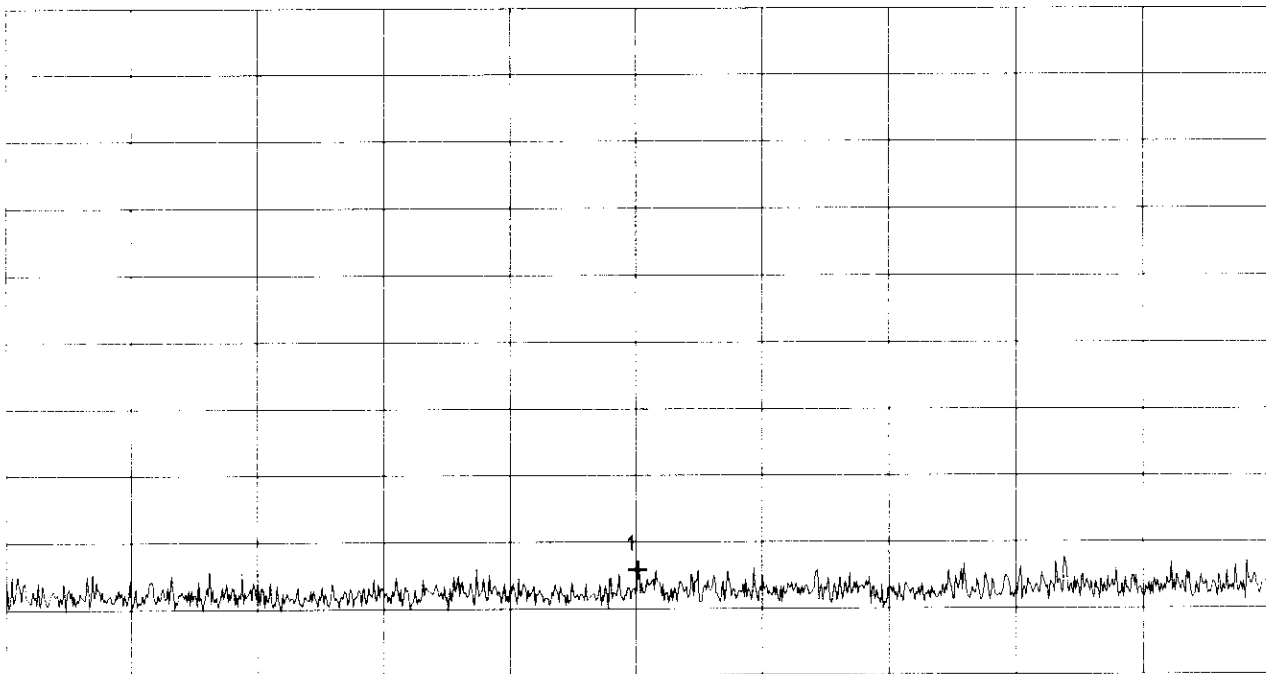
Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

|                              |  |
|------------------------------|--|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br>Sample No. 1  | RX mode, channel 21 (2451.5 MHz)           |
| Applicant:<br>Siemens AG     | Test distance 3 m<br>Vertical polarization |
|                              |  |
|                              |  |
|                              |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
|      | -----          |                 |
| Nr.1 | 165.300000 MHz | 4.88 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

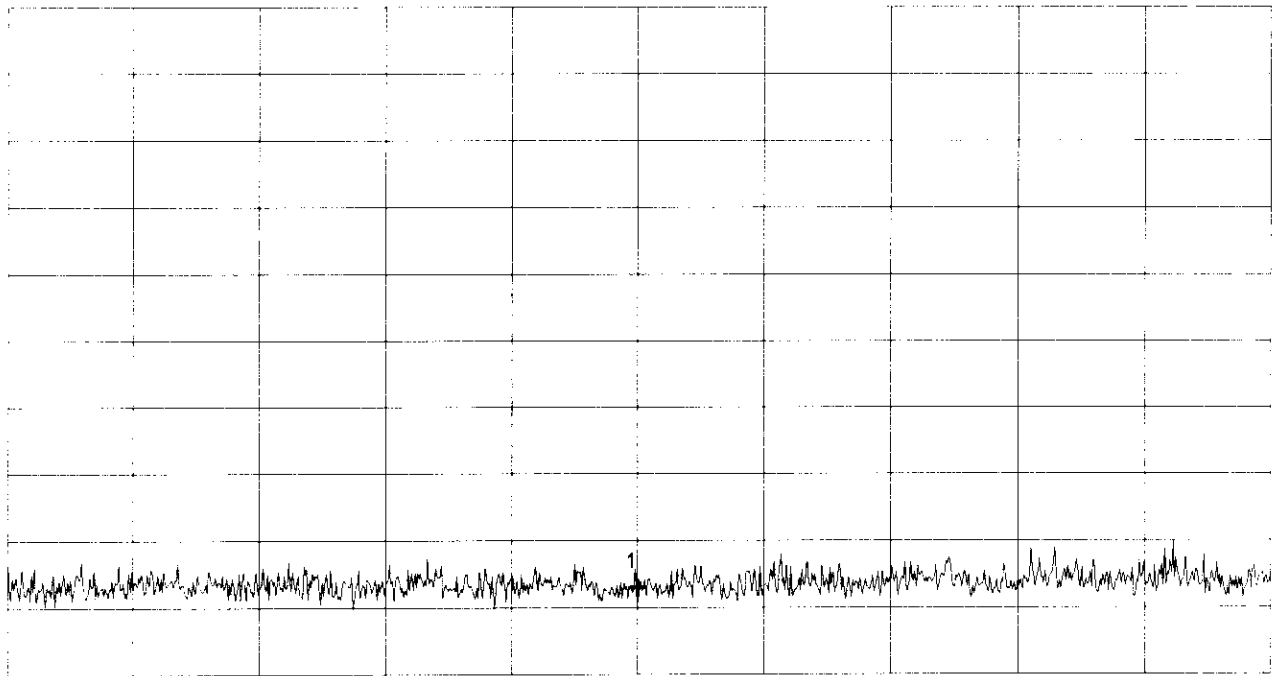


# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX mode, channel 21 (2451.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal polarization</b> |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
|      | -----          |                 |
| Nr.1 | 650.000000 MHz | 3.48 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

|                                   |   |
|-----------------------------------|---|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | <div style="text-align: right;">Page of pages</div> |

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

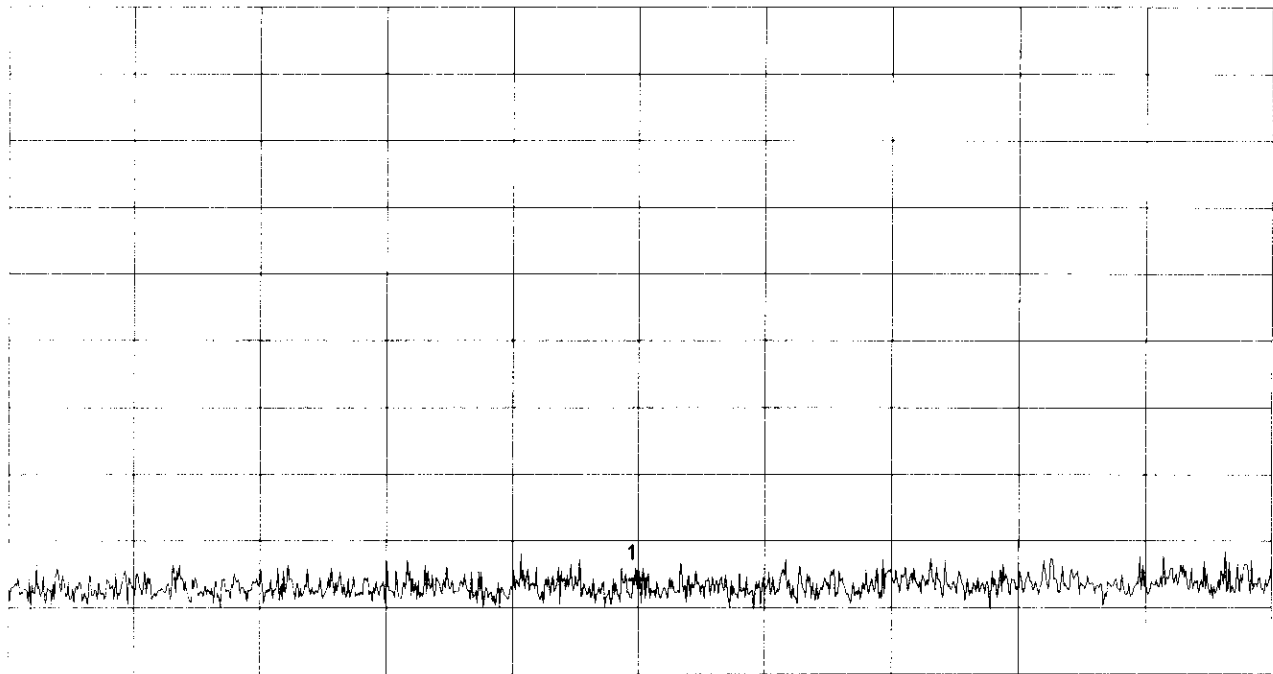
Mode:  
Supply voltage 5 V DC

RX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 650.000000 MHz | 4.09 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

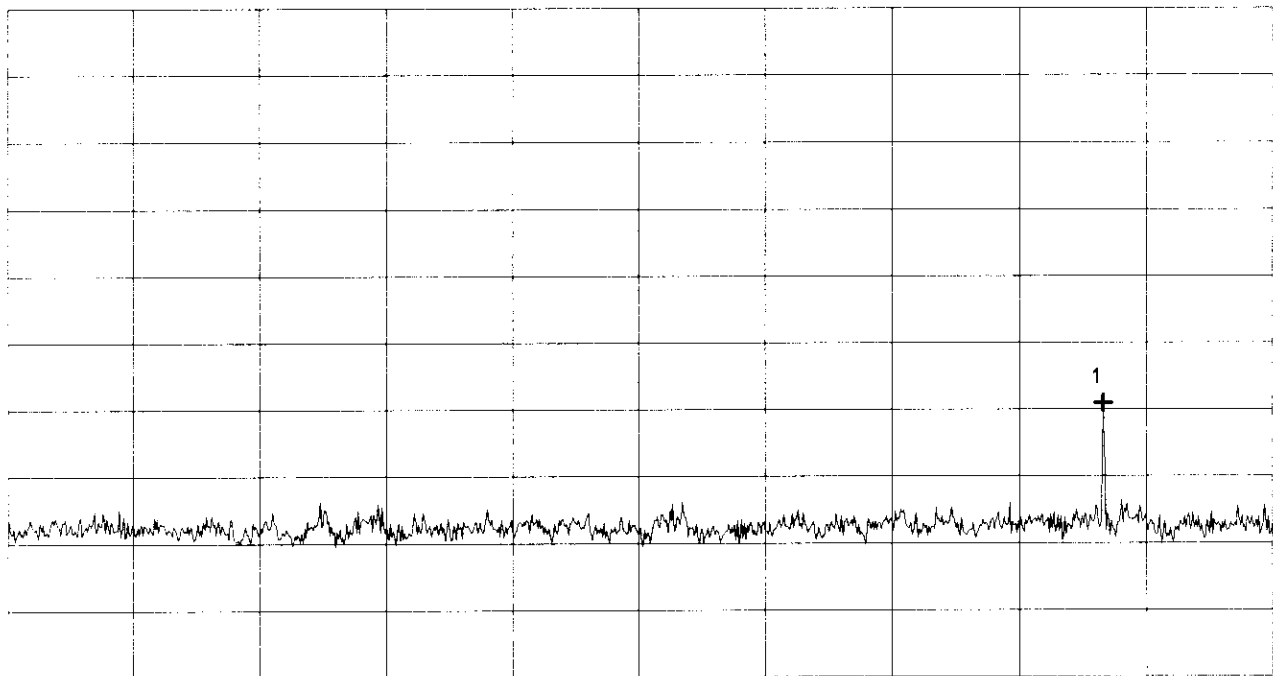
RX Mode Channel 21 (2451.5 MHz)

Test distance 3m  
Horizontal polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Level (dB $\mu$ V) |
|------|-----------------|--------------------|
| Nr.1 | 2.384889        | 16.95              |
| Nr.2 |                 |                    |
| Nr.3 |                 |                    |
| Nr.4 |                 |                    |
| Nr.5 |                 |                    |
| Nr.6 |                 |                    |
| Nr.7 |                 |                    |
| Nr.8 |                 |                    |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

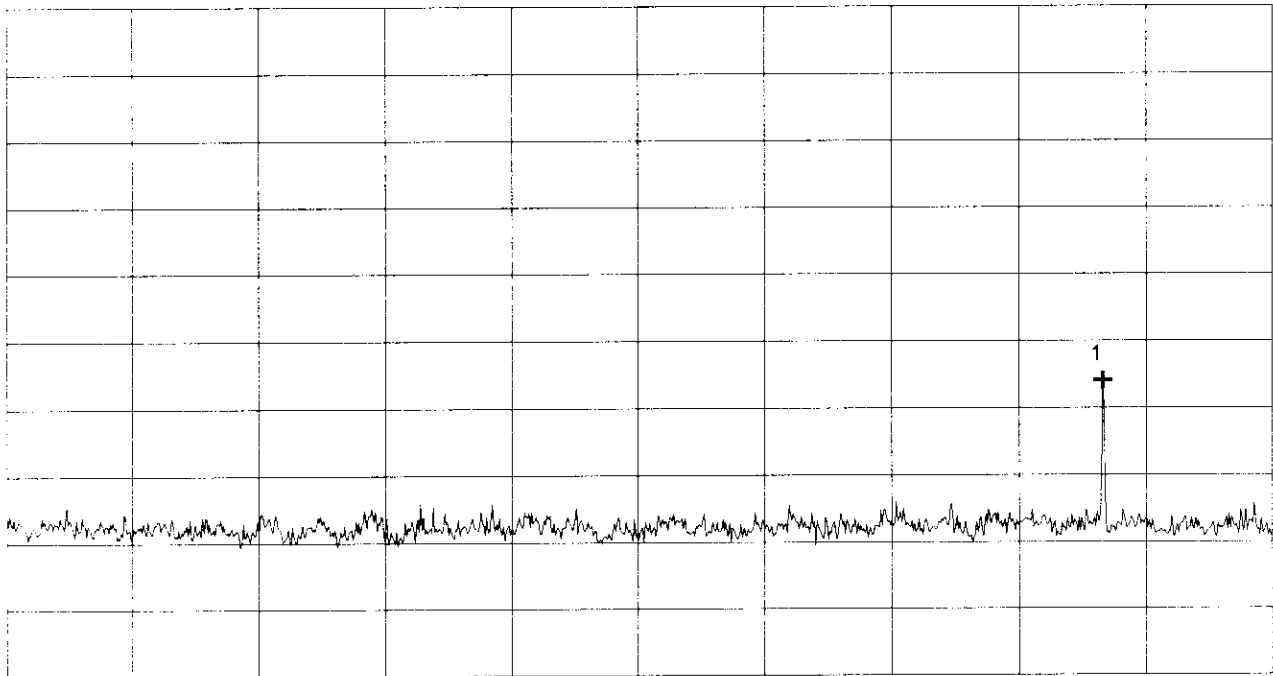
RX Mode Channel 21 (2451.5 MHz)

Test distance 3m  
Vertical polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.384889 GHz | 18.52 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

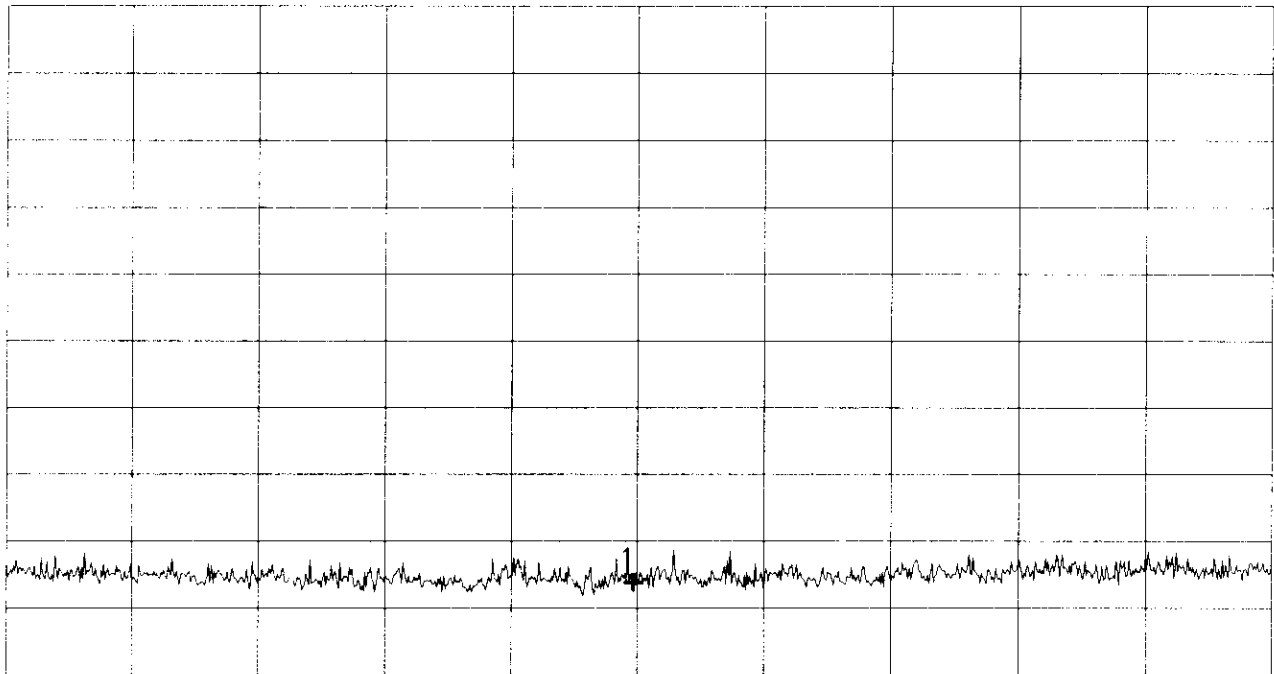
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.270500 GHz | 3.40 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

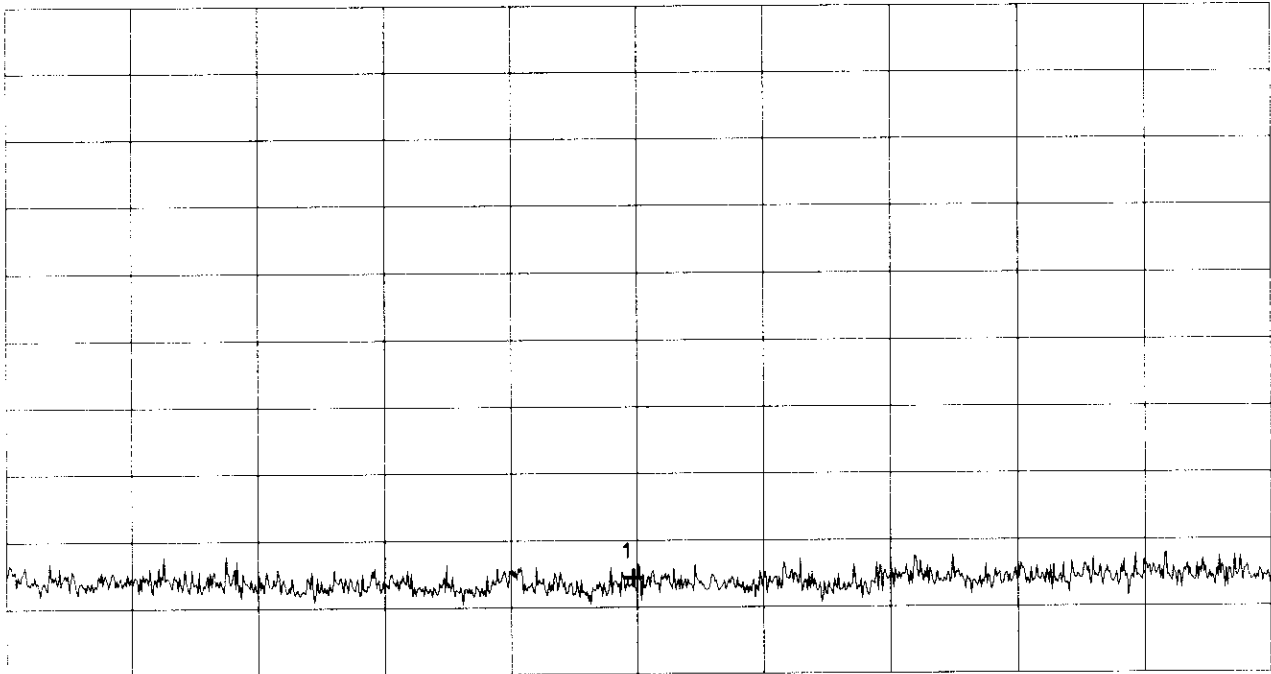
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.270500 GHz | 3.70 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

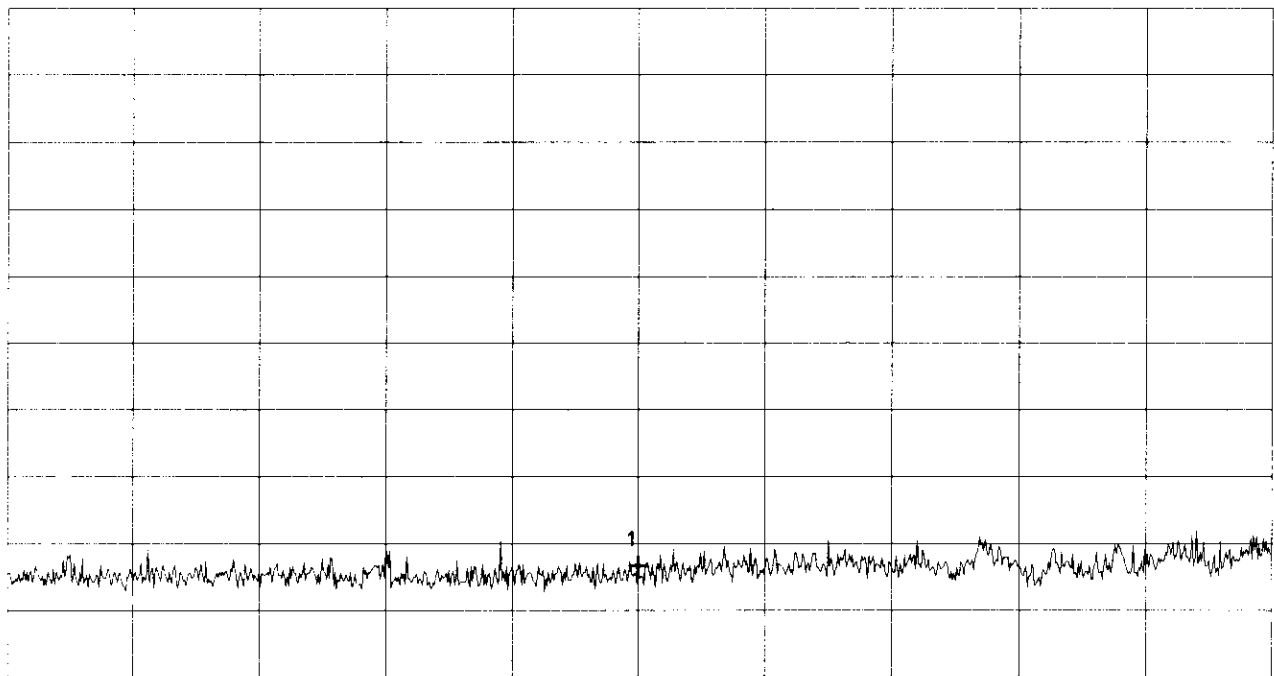
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
|      | -----        |                 |
| Nr.1 | 4.900000 GHz | 4.86 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

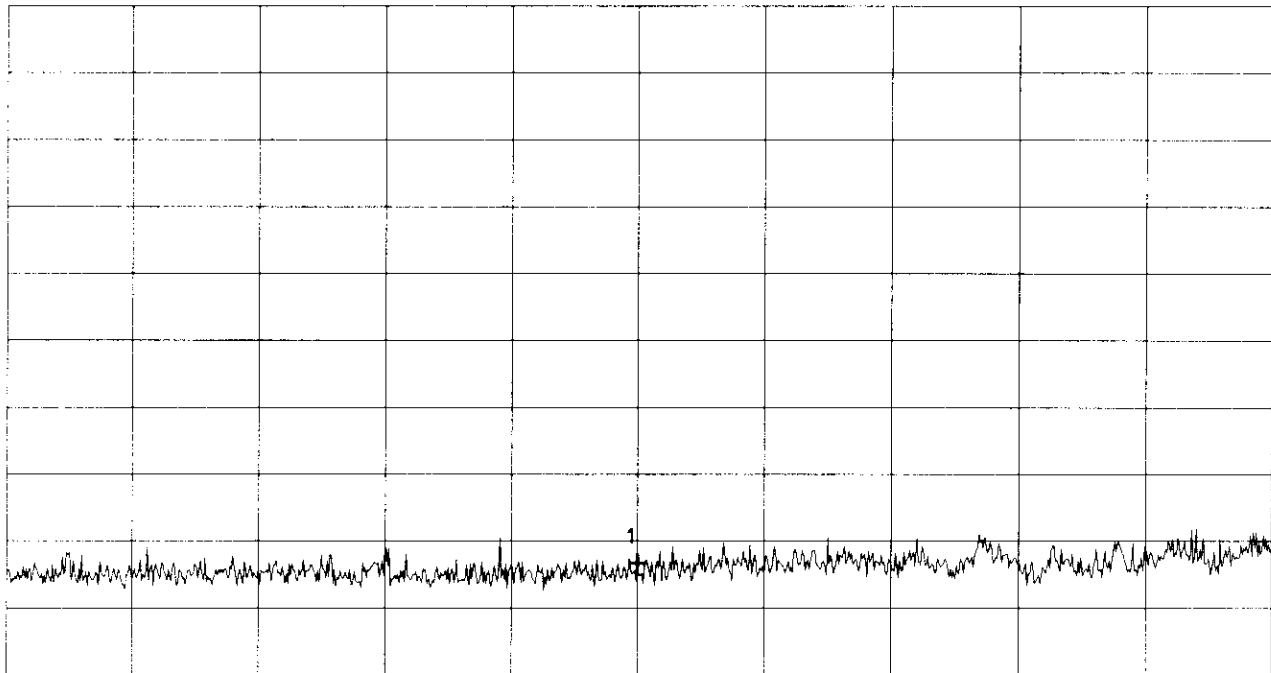
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 4.900000 GHz | 4.86 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

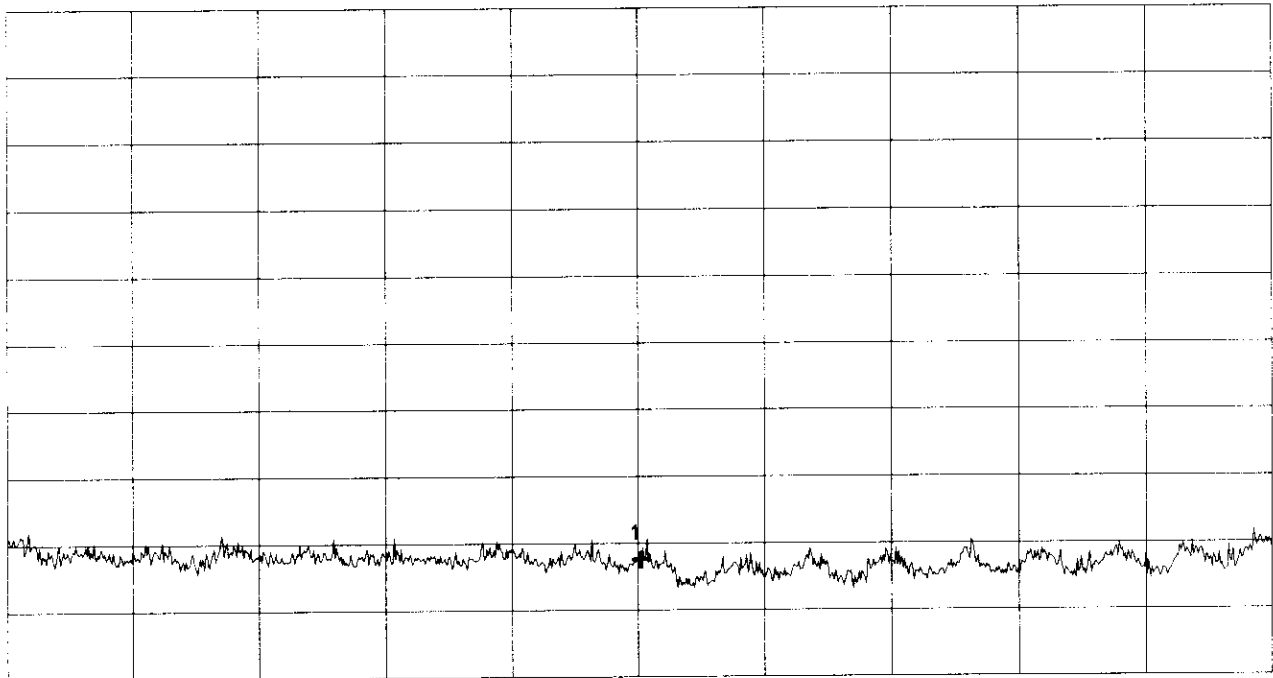
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 7.030222 GHz | 5.27 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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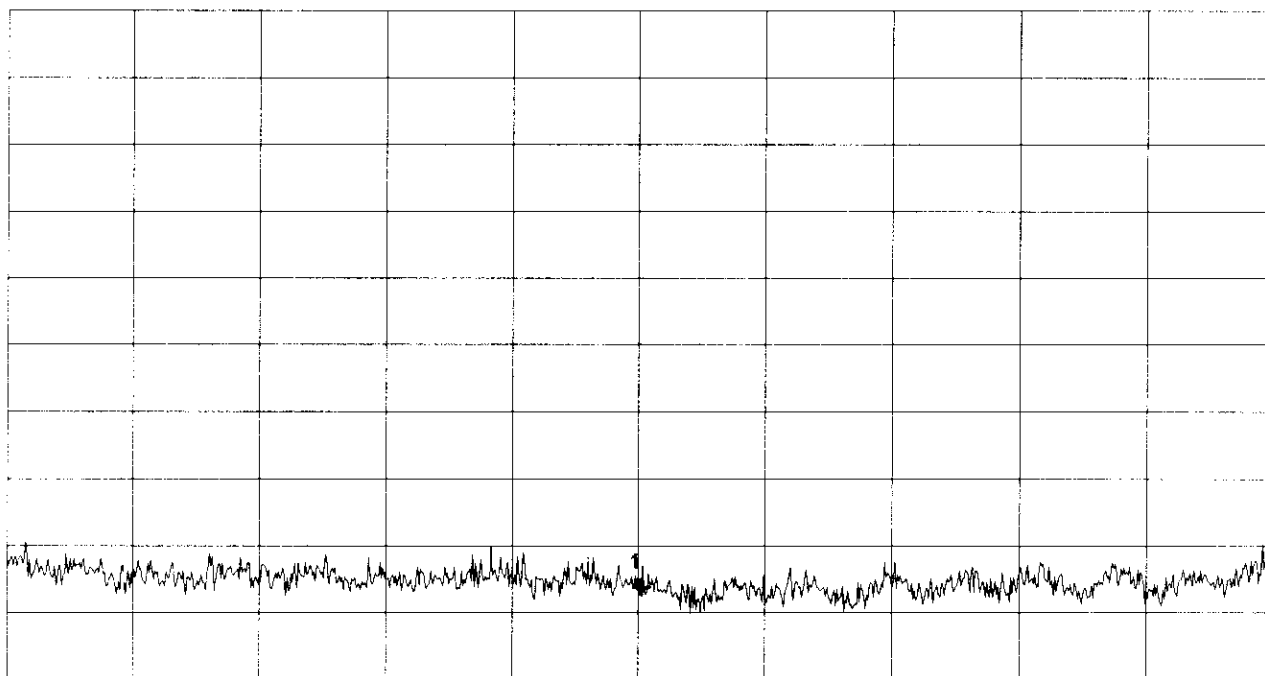
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 21 (2451.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|  |                       |                 |
|--|-----------------------|-----------------|
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br>7.030222 GHz | 3.35 dB $\mu$ V |
|--|-----------------------|-----------------|

|                                   |
|-----------------------------------|
| Tested by:<br><b>Johann Roidt</b> |
| Date:                             |

|               |
|---------------|
| Project-No.:  |
| Page of pages |



# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

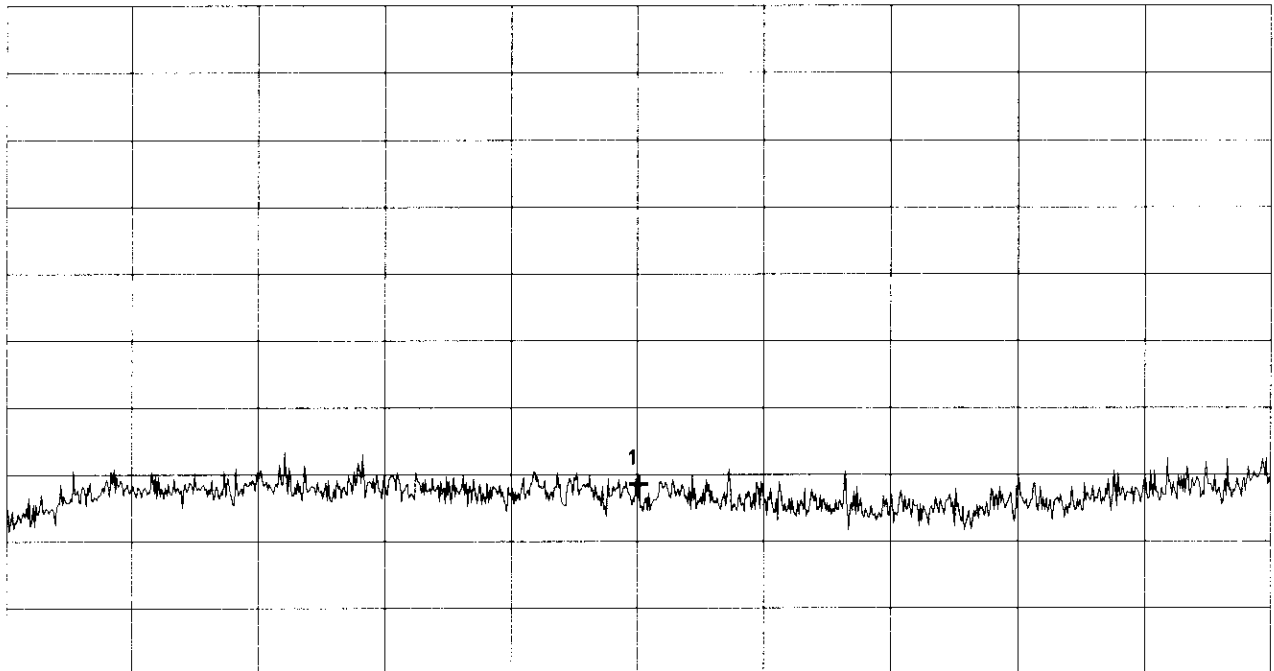
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 10.304667 GHz | 6.25 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

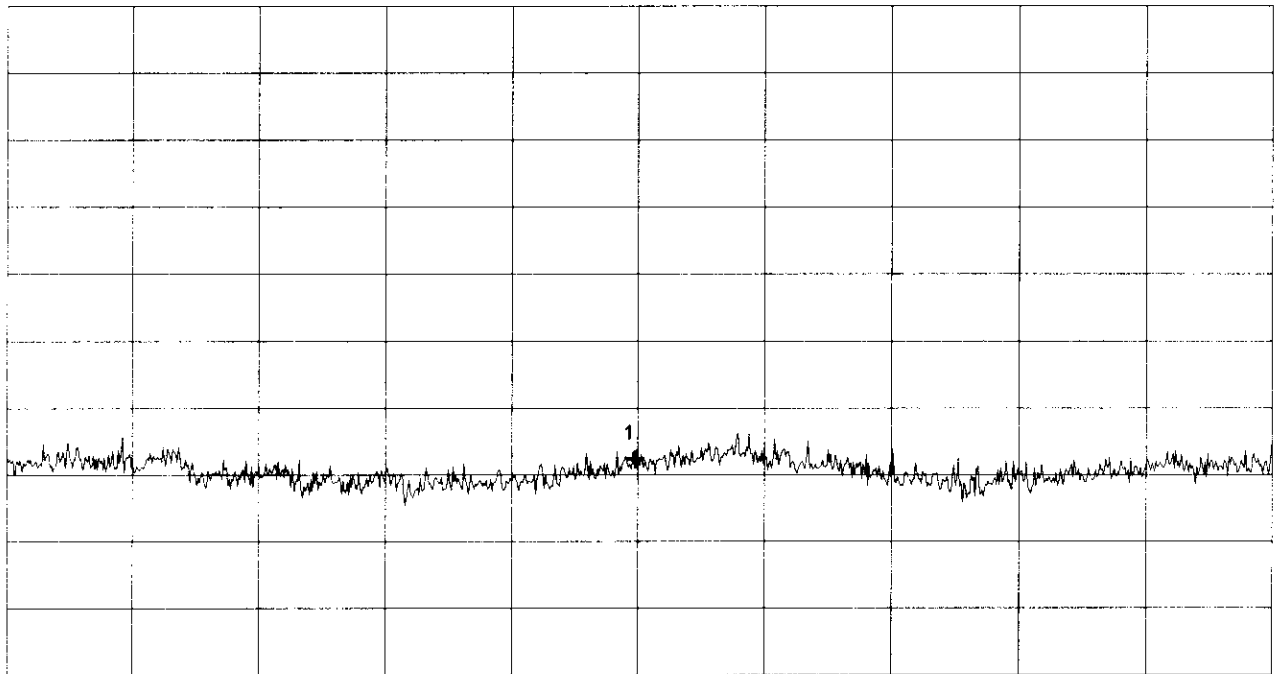
# Radiated Emission Measurement acc. to FCC Rules

|   |   |
|---|---|
| <p>Model:<br/><b>SRIF Module</b></p> <hr/> <p>Serial No.:<br/><b>Sample No. 1</b></p> <hr/> <p>Applicant:<br/><b>Siemens AG</b></p> <hr/> <hr/> <hr/> <hr/> | <p>Mode:<br/><b>Supply Voltage 5 V DC</b></p><br><p><b>RX Mode, Channel 21 (2451.5 MHz)</b></p><br><p><b>Test distance 3 m</b><br/><b>Horizontal Polarization</b></p> |
|---|---|

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 15.187556 GHz | 8.17 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

|  |   |
|--|---|
| <p>Tested by:<br/><b>Johann Roidt</b></p> <hr/> <p>Date:</p> | <p>Project-No.:</p> <hr/> <p style="text-align: right;">Page of pages</p> |
|--|---|

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

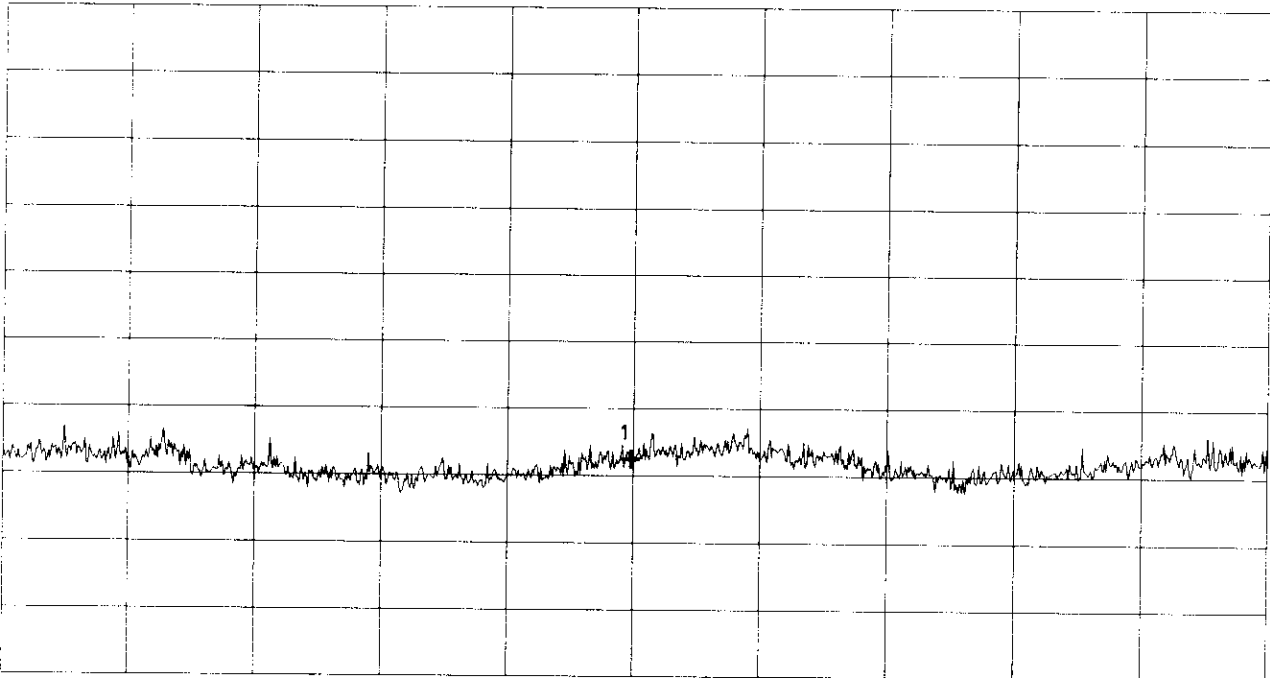
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref. Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 15.187556 GHz | 8.22 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

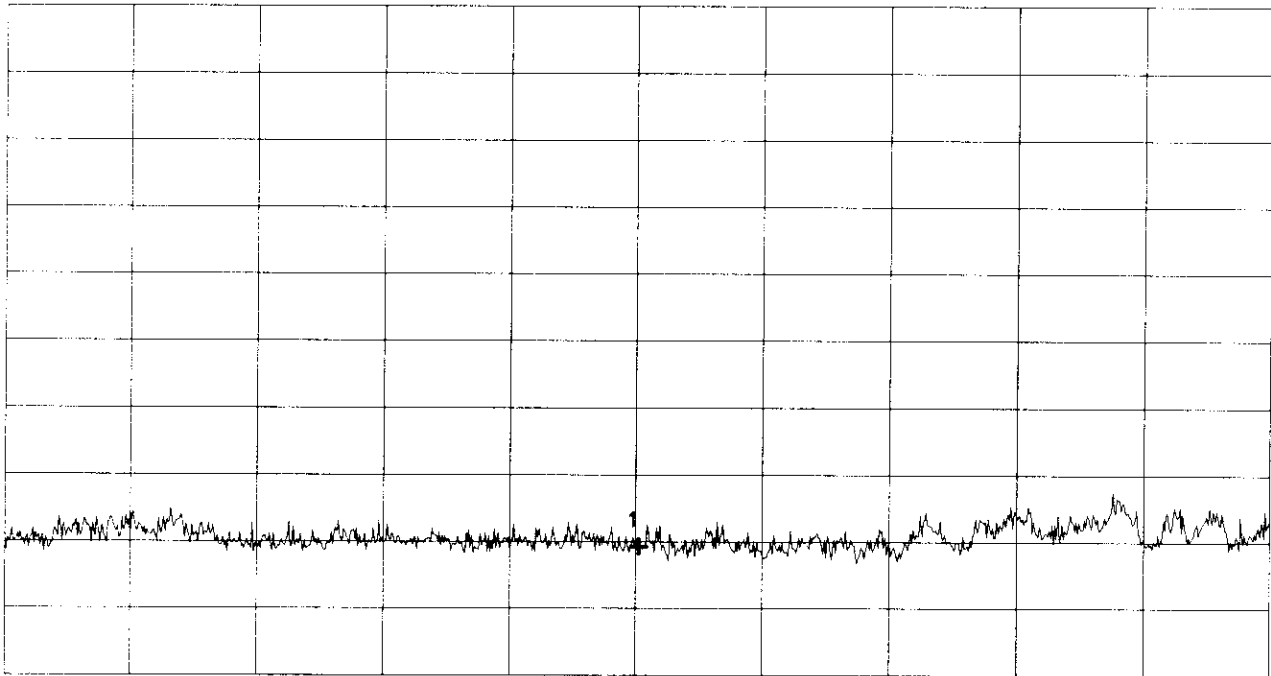
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref.Level 67 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
| Nr.1 | 22.268889 GHz | 26.62 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

Tested by:  
Johann Roidt

Date:

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

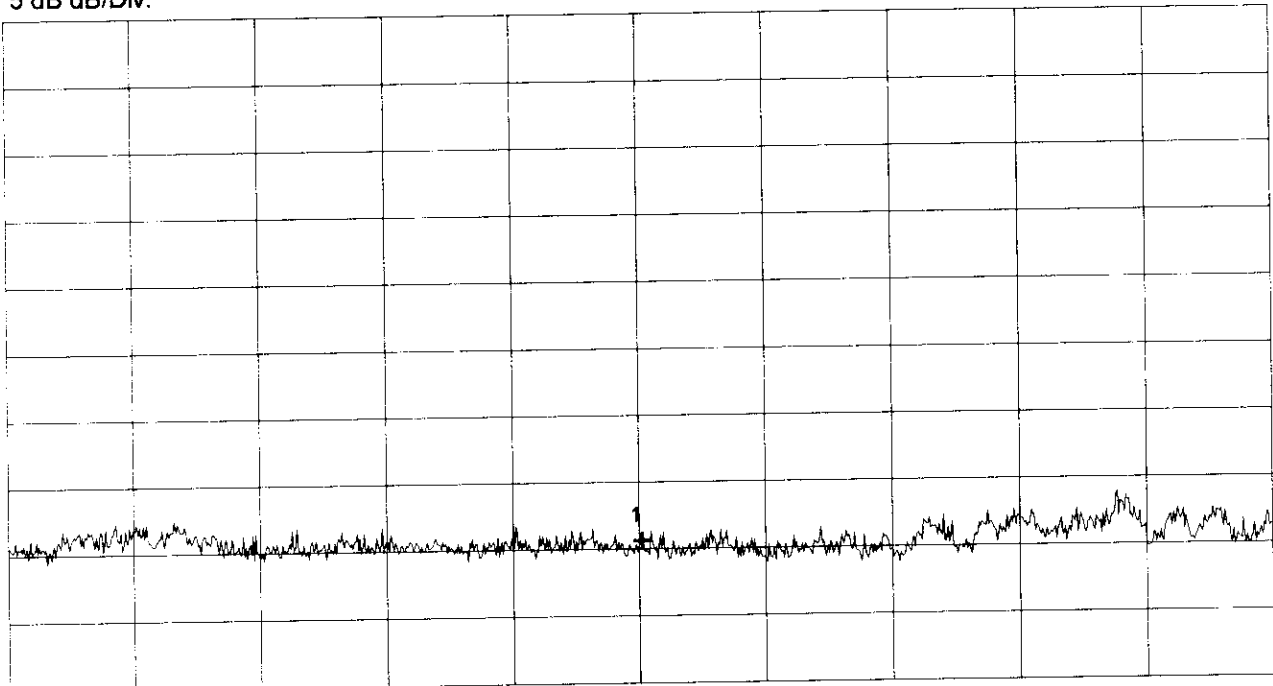
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref.Level 67 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
| Nr.1 | 22.268889 GHz | 27.59 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

Page of pages



Straubing, 3 July, 1998

**TEST - REPORT**

**No. 51966-70833-1**

**for**

**SRIF Module  
2.4 GHz RF Modem**

**Applicant:** Siemens AG,  
A & D, Automation and Drives Division

**Purpose of testing:** To show compliance with  
FCC Code of Federal Regulations,  
CFR 47, Part 15, Subpart C,  
Sections 15.209 and 15.249

---

**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.

---

## Table of Contents

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| 1. Administrative Data                                    | 3  |
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**1. Administrative Data**

Equipment Under Test (EUT): SRIF Module  
Type of equipment: RF Modem  
Parts/accessories: N.A.  
Version of EUT: **FCC-ID: NXWSRIF245**

---

Applicant: Siemens AG, A & D PT 34  
(full address) Gleiwitzer Strasse 555  
D-90475 Nürnberg

Contract identification: N.A.  
Contact person: Mr. Spies  
Manufacturer: Applicant

---

Receipt of EUT: November 18, 1997  
Date of test: July 1998

---

Responsible for testing: Mr. Johann Roidt  
Responsible for test report: Mr. Johann Roidt

---

## 2. Summary of Test Results

The tested samples fully comply with the requirements for intentional radiators set forth in the

Code of Federal Regulations CFR 47  
Part 15 Subpart C, Section 15.249  
of the  
Federal Communication Commission (FCC).



Johann Roidt  
Technical Manager

**3. Operation Mode of EUT**

The EUT was powered from a 5 V DC power source. During all measurements the EUT was operated with its dedicated antenna. Emission testing was performed with modulated carrier at its lowest, mid and highest channel.

**4. Changes made to the EUT during this certification test**

No changes have been made to the EUT during this certification test.

**5. Configuration of EUT and Peripheral Devices**

**Configuration of cables to EUT**

Unshielded two-wire power supply cable

**Configuration of peripheral devices connected to EUT**

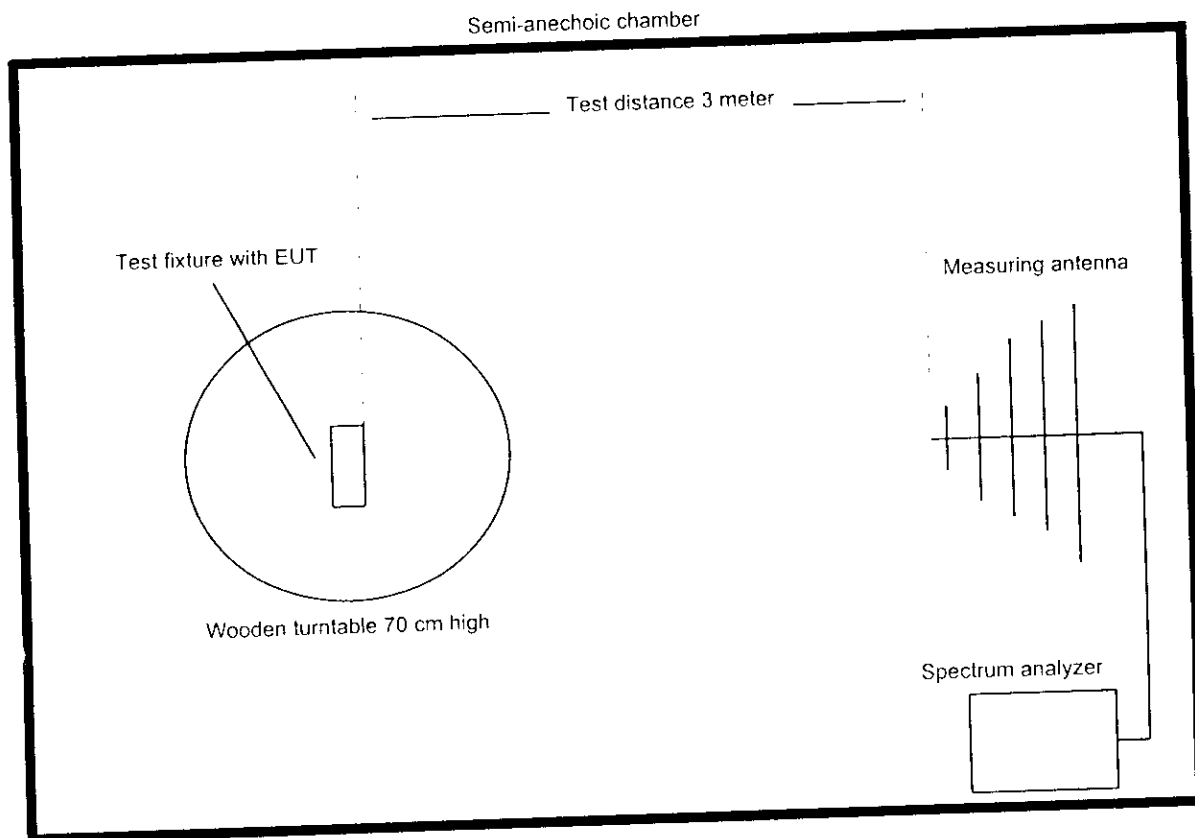
Not applicable

## Measuring Methods

### **Transmitter Parameter TestS (§15.209)**

All transmitter parameter radiated tests are performed at a test distance of 3 meters in a semianechoic chamber. During the tests the EUT will be rotated all around and the receiving antenna will be raised and lowered from 1 meter to 4 meter to find the maximum levels of emission. Cables and equipment will be placed and moved within the position likely to find their maximum emissions. Measurements will be made in horizontal and vertical polarization of the receiving antenna. The EUT was operating in transmit mode with its internal modulation.

The bandwidth of the emission will be measured with a spectrum analyzer. Resolution Bandwidth and Video Bandwidth will be set to 10 kHz.



***Radiated Emissions 0.009 – 30 MHz***

Radiated emissions in the frequency range 0.009 – 30 MHz will be measured initially at a distance of 3 meters. A prescan at 3 meter distance will be performed in a shielded room with the detector of the spectrum analyzer or EMI Receiver set to peak. Final measurement is then performed at 30 meter distance. In case the regulation requires testing at other distances, the result will be extrapolated. The extrapolation factor will be determined by making a second measurement at 10 meter distance. The provisions of 15.31 (d) apply.

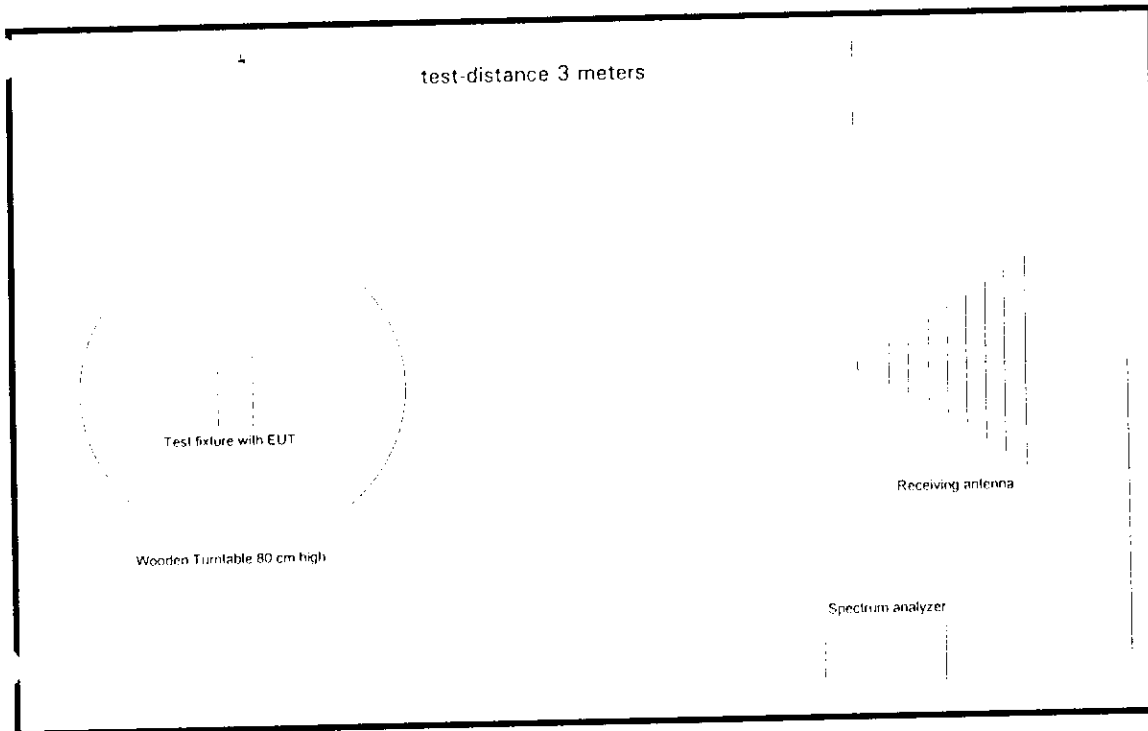
According to section 15.209 (d) final measurement is performed with the detector set to Quasi Peak except for the frequency bands 9 – 90 kHz and 110 – 490 kHz where average detector is employed.

### ***Radiated Emissions 30 MHz – 1 GHz***

Radiated emissions in the frequency range 30 – 1000 MHz will be measured at a distance of 3 meter. The bandwidth of the spectrum analyzer will be set to 100 kHz and the detector function set to Quasi Peak.

The test setup will be made in accordance with ANSI C.63.4-1992.

Measurements will be made in horizontal and vertical polarization of the receiving antenna. Prescans will be taken in a semianechoic chamber using a spectrum analyzer with the detector function set to peak. All tests will be performed at a test distance of 3 meters. For final testing an open field test site will be used. During the tests the EUT will be rotated all around and the receiving antenna will be raised and lowered from 1 meter to 4 meter to find maximum levels of emissions.

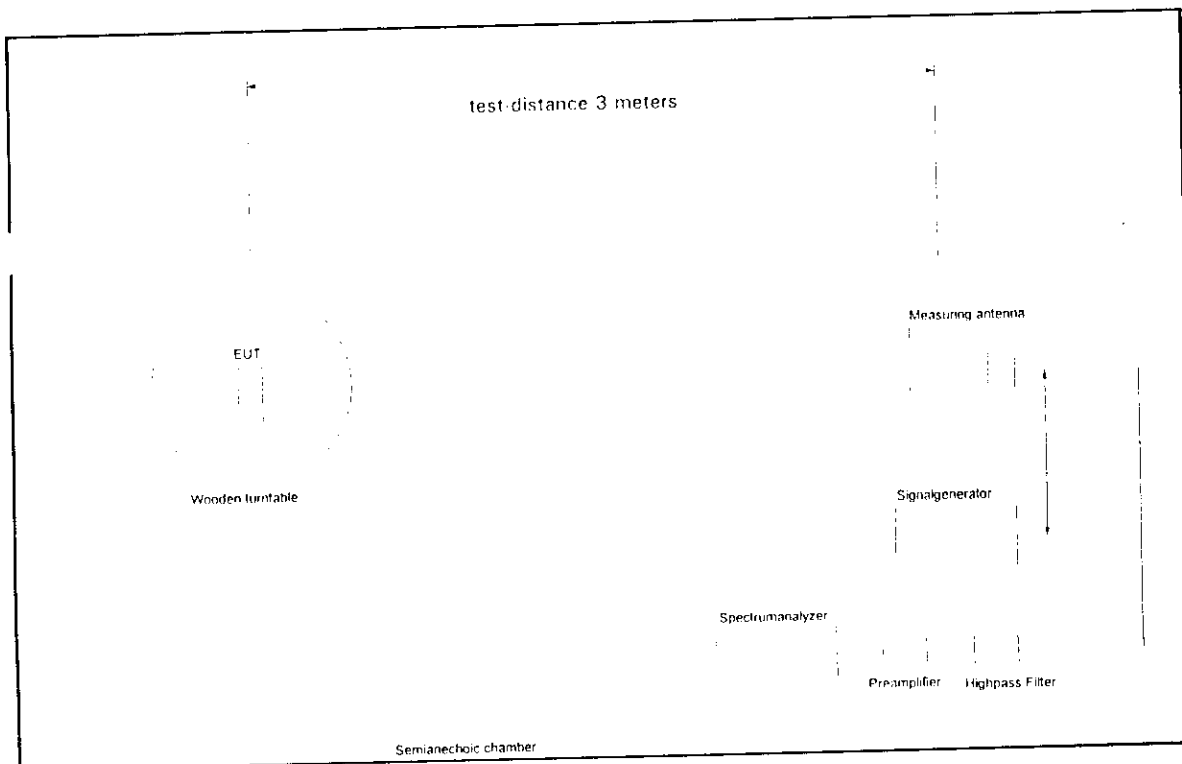




## Radiated Emissions above 1 GHz

Radiated emissions were measured in the frequency range 1 GHz to 3.15 GHz in transmit mode. The resolution bandwidth and the video bandwidth of the spectrum analyzer was set to 1 MHz. Prescans with video bandwidth 1 MHz (peak mode) were taken to check out the highest levels (with reference to the limits), see 6.4 for details to prescan procedure. Final measurements were performed at the three highest emissions per band. EUT was rotated all around and receiving antenna was raised and lowered to find the maximum levels of emission. Cables and equipment were placed and moved within the range of position likely to find their maximum emissions. Measurements were made in horizontal and vertical polarization. All tests were performed in a semi-anechoic chamber with a test-distance of 3 meters. To avoid overload in transmit mode a high pass filter was connected to the input of the preamplifier (in case when a preamplifier was necessary)). In this case a signal generator was used for substitution to eliminate the influence of filter and preamplifier. Substitution was performed in the following steps:

- antenna cable was disconnected from receiving antenna and connected to signal generator output
- level of signal generator was increased until the reading value of the analyzer was the same as caused by EUT
- level of signal generator was noted
- final value was calculated by converting the signal generator level to dB $\mu$ V/m and adding the antenna correction factor.



### ***Procedure for preliminary Radiated Emission Tests***

The procedure for preliminary radiated emission tests follows section 13.4.1 of ANSI C63.4-1992. In case the EUT is a handheld device preliminary emission measurements will be performed in three orthogonal axes of the EUT.

Prescans are made in the following frequency range:

0.009 – 30 MHz  
30 – 230 MHz  
230 – 1000 MHz  
1000 – 2600 MHz  
2600 – 3950 MHz  
3950 – 5850 MHz  
5850 – 8200 MHz  
8200 – 12400 MHz  
12400 – 18000 MHz  
18000 – 26500 MHz  
26500 – 40000 MHz

with the receiving antenna set to horizontal and vertical polarization.

The following step-by-step procedure will be used:

- 1) Monitor the frequency range at a fixed antenna height and EUT azimuth
- 2) Rotate the EUT by 360 degrees to maximize the suspected highest azimuth signals. Note the amplitude and frequency of the signals. Orient the EUT azimuth for maximum emission.
- 3) Move the antenna over its full allowed range of travel to maximize the emission. If the signal or another one at a different frequency is observed to exceed the previously noted highest amplitude signal by 1 dB or more, return to step 2) with the antenna fixed at this height. Otherwise move the antenna to the height that repeats the highest amplitude observation and proceed.
- 4) Identify at least the three highest emissions per band by using the multimarker function of the spectrum analyzer. Make a hardcopy of the spectrum.
- 5) Repeat steps 1) through 4) for the other orthogonal axes of the EUT.
- 6) Repeat steps 1) through 5) for other orthogonal antenna polarization.

*Method for comparing spectrum analyzer output to the limit*

The following procedure will be used:

- 1) Maximize the emission according to 6.4.
- 2) Set the spectrum analyzer to **Max Hold**
- 3) Wait until the noise is fully maximized.
- 4) Put the marker on top of the investigated signal.
- 5) Note frequency and level of the investigated signal
- 6) Add antenna correction and cable loss to this level and compare it with the limit.

*Spectrum analyzer setting for final test*

| Frequency range             | Detector   | Resolution Bandwidth | Video Bandwidth | Trace Mode |
|-----------------------------|------------|----------------------|-----------------|------------|
| 0.009 – 30 MHz              | Quasi Peak | 10 kHz               | 10 kHz          | Max Hold   |
| 9 – 90 kHz<br>110 – 490 kHz | Average    | 10 kHz               | 100 Hz          | Max Hold   |
| 30 – 1000 MHz               | Quasi Peak | 100 kHz              | 1 MHz           | Max Hold   |
| > 1000 MHz                  | Peak       | 1 MHz                | 1 MHz           | Max Hold   |
| > 1000 MHz                  | Average    | 1 MHz                | 1 kHz           | Max Hold   |

## 7. List of Measurements

| FCC Part 15 Subpart C |   |      |        |
|-----------------------|---|------|--------|
| Section(s):           | Test                                      | Page | Result |
|                       | <b>Transmit mode (TX):</b>                |      |        |
| 15.249                | Field strength of emissions (fundamental) | 17   | passed |
| 15.249                | Field strength of emissions (harmonics)   | 18   |        |
|                       | <b>Receive Mode (RX)</b>                  |      |        |
| 15.249                | Field strength of emissions               | 19   |        |

8. Test Results

**Field Strength of Emissions according to FCC Rules,  
 Part 15, Subpart C, Section 15.249  
 (Fundamental, TX Mode)**

Model: **SRIF Module**  
 Type: **with dedicated Antenna**  
 Serial No.: **Sample No. 1**  
 Applicant: **Siemens AG, A & D**  
 Test Site: **Senton GmbH**  
 Distance: **3 meter**  
 Date of Test: **June 10, 1989**  
 Test Operator: **J. Roidt**

| Frequency<br>MHz | Detector | Antenna<br>Pol. | Analyzer<br>Reading<br>dB $\mu$ V | Antenna<br>correction<br>dB/m | Field<br>Strength<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB |
|------------------|----------|-----------------|-----------------------------------|-------------------------------|-----------------------------------|-----------------------|--------------|
| 2451.5           | Peak     | Horizontal      | 61.5                              | 31.2                          | <b>92.7</b>                       | 94.0                  | <b>1.3</b>   |
| 2466.5           | Peak     | Horizontal      | 61.3                              | 31.2                          | <b>92.5</b>                       | 94.0                  | <b>1.5</b>   |
| 2481.5           | Peak     | Horizontal      | 61.4                              | 31.2                          | <b>92.6</b>                       | 94.0                  | <b>1.4</b>   |

**Sample calculation of Field Strength values:**

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

Duty cycle correction and desensitization correction not applicable

Note: Antenna correction includes cable losses as well.

**Test instruments used: 101, 114, 149, 009 (see instruments list for details)**

**Field Strength of Emissions according to FCC Rules,  
 Part 15, Subpart C, Section 15.249  
 (Harmonics, TX Mode)**

Model: **SRIF Module**  
 Type: **with dedicated Antenna**  
 Serial No.: **Sample No. 1**  
 Applicant: **Siemens AG, A & D**  
 Test Site: **Senton GmbH**  
 Distance: **3 meter**  
 Date of Test: **June 10, 1989**  
 Test Operator: **J. Roidt**

| Frequency<br>MHz | Detector | Antenna<br>Pol. | Analyzer<br>Reading<br>dBµV | Antenna<br>correction<br>dB/m | Field<br>Strength<br>dBµV/m | Limit<br>dBµV/m | Margin<br>dB |
|------------------|----------|-----------------|-----------------------------|-------------------------------|-----------------------------|-----------------|--------------|
| 4938.0           | Peak     | Horizontal      | 20.1                        | 28.2                          | <b>48.3</b>                 | 54.0            | <b>5.7</b>   |
| 7403.6           | Peak     | Horizontal      | 19.2                        | 31.1                          | <b>50.3</b>                 | 54.0            | <b>3.7</b>   |
| 9936.0           | Peak     | Horizontal      | 16.3                        | 34.8                          | <b>51.1</b>                 | 54.0            | <b>2.9</b>   |

**Sample calculation of Field Strength values:**

Field Strength (dBµV/m) = Analyzer Reading (dBµV) + Antenna Correction (dB/m)

Duty cycle correction and desensitization correction not applicable

Note: Antenna correction includes cable losses as well.

Test instruments used: 101, 114, 149, 009 (see instruments list for details)



**Field Strength of Emissions according to FCC Rules,  
 Part 15, Subpart C, Section 15.249  
 (RX Mode)**

Model: **SRIF Module**  
 Type: **with dedicated Antenna**  
 Serial No.: **Sample No. 1**  
 Applicant: **Siemens AG, A & D**  
 Test Site: **Senton GmbH**  
 Distance: **3 meter**  
 Date of Test: **June 10, 1989**  
 Test Operator: **J. Roidt**

| Frequency<br>MHz | Detector | Antenna<br>Pol. | Analyzer<br>Reading<br>dBμV | Antenna<br>correction<br>dB/m | Field<br>Strength<br>dBμV/m | Limit<br>dBμV/m | Margin<br>dB |
|------------------|----------|-----------------|-----------------------------|-------------------------------|-----------------------------|-----------------|--------------|
| 2384.8           | Peak     | Vertical        | 18.5                        | 31.2                          | <b>49.7</b>                 | 54.0            | <b>4.3</b>   |
| 2400.8           | Peak     | Vertical        | 20.4                        | 31.2                          | <b>51.6</b>                 | 54.0            | <b>2.4</b>   |
| 2415.1           | Peak     | Vertical        | 22.0                        | 31.2                          | <b>53.2</b>                 | 54.0            | <b>0.8</b>   |

**Sample calculation of Field Strength values:**

Field Strength (dBμV/m) = Analyzer Reading (dBμV) + Antenna Correction (dB/m)

Duty cycle correction and desensitization correction not applicable

Note: Antenna correction includes cable losses as well.

Test instruments used: 101, 114, 149, 009 (see instruments list for details)

**9. Equipment List****General Test Equipment and Ancillaries**

| No. | Instrument/Ancillary     | Type       | Serial Number | Manufacturer       |
|-----|--------------------------|------------|---------------|--------------------|
| 001 | Open area test site      | EG 1       |               | Senton             |
| 002 | Shielded room            | No. 1      | 1451          | Senton             |
| 003 | Shielded room            | No. 2      | 1452          | Senton             |
| 004 | Semi-anechoic room       | No. 3      | 1453          | Siemens            |
| 005 | Shielded room            | No. 4      | 3FD 100 544   | Euroshield         |
| 006 | Shielded room            | No. 5      | 5468          | Ray Proof Division |
| 007 | Temperature test chamber | HT4010     | 07065550      | Heraeus            |
| 008 | Cable                    | RG214      | 1309          | Senton             |
| 009 | Cable                    | 200CM_001  | 1357          | Rosenberger        |
| 010 | Cable                    | 150CM_001  | 1479          | Rosenberger        |
| 011 | Cable                    | 150CM_002  | 1480          | Rosenberger        |
| 012 | Cable set EG1            | RG214      | 1189 - 1191   | Senton             |
| 013 | Cable set cabin no. 1    | RG214      |               | Senton             |
| 014 | Cable set cabin no. 2    | RG214      |               | Senton             |
| 015 | Cable set cabin no. 3    | RG214      |               | Senton             |
| 016 | Cable set cabin no. 4    | RG214      |               | Senton             |
| 017 | DC power supply          | NGSM 32/10 | 203           | Rohde & Schwarz    |
| 018 | DC power supply          | NGB        | 2455          | Rohde & Schwarz    |
| 019 | DC power supply          | NGA        | 386           | Rohde & Schwarz    |
| 020 | Isolating transformer    | RT 5A      | 10387         | Grundig            |
| 021 | Isolating transformer    | RT 5A      | 10416         | Grundig            |
| 022 | Digital multimeter       | 199        | 463386        | Keithley           |
| 023 | Multimeter               | HP E2373A  | 2927J03345    | Hewlett Packard    |

## Test Equipment and Ancillaries used for Emission Tests

| No. | Instrument/Ancillary  | Type            | Serial Number                          | Manufacturer    |
|-----|---|-----------------|--|-----------------|
| 101 | EMI test receiver/<br>Spectrum Analyzer with<br>Harmonic Mixer Set<br>(26.5 - 40 GHz) | ESMI<br>FS-Z-40 | 839379/013<br>839587/006<br>845881/005 | Rohde & Schwarz |
| 102 | Spectrum analyzer   | R 3271          | 05050023                               | Advantest       |
| 103 | Test receiver   | ESH 3           | 880112/032                             | Rohde & Schwarz |
| 104 | Test receiver   | ESHS 10         | 860043/016                             | Rohde & Schwarz |
| 105 | Test receiver   | ESV             | 881414/009                             | Rohde & Schwarz |
| 106 | Test receiver   | ESVP            | 881120/024                             | Rohde & Schwarz |
| 107 | Audio analyzer  | UPA             | 862954                                 | Rohde & Schwarz |
| 108 | Radio communication<br>service monitor  | CMS 54          | 838384/030                             | Rohde & Schwarz |
| 109 | Power meter   | NRVS            | 836856/015                             | Rohde & Schwarz |
| 110 | Power sensor  | NRV-Z52         | 837901/030                             | Rohde & Schwarz |
| 111 | Power sensor  | NRV-Z4          | 863828/015                             | Rohde & Schwarz |
| 112 | Preamplifier  | ESV-Z3          | 860907/004                             | Rohde & Schwarz |
| 113 | Preamplifier  | R14601          |  | Advantest       |
| 114 | Preamplifier  | ACX/080-3030    | 32640                                  | CTT             |
| 115 | Preamplifier  | ACO/180-3530    | 32641                                  | CTT             |
| 116 | Signal generator  | SMS             | 872166/039                             | Rohde & Schwarz |
| 117 | Signal generator  | HP 8673 D       | 2930A00966                             | Hewlett Packard |
| 118 | Waveform generator  | HP 33120 A      | US34005375                             | Hewlett Packard |
| 119 | UHF attenuator set  | DPU             | 300771/075                             | Rohde & Schwarz |
| 120 | UHF attenuator set  | DPU             | 300788/006                             | Rohde & Schwarz |
| 121 | Attenuator  | 4776-10         | 9412                                   | Narda           |
| 122 | Attenuator  | 4776-20         | 9503                                   | Narda           |
| 123 | Pulse limiter   | ESH 3-Z2        | 1144                                   | Rohde & Schwarz |
| 124 | Pulse limiter   | 11947 A         | 3107A00566                             | Hewlett Packard |
| 125 | V-network   | ESH 3-Z5        | 862770/018                             | Rohde & Schwarz |
| 126 | V-network   | ESH 3-Z5        | 894785/005                             | Rohde & Schwarz |
| 127 | V-network   | ESH 3-Z5        | 830952/025                             | Rohde & Schwarz |
| 128 | V-network   | ESH 3-Z6        | 830722/010                             | Rohde & Schwarz |
| 129 | V-network   | NSLK 8127       | 8127152                                | Schwarzbeck     |
| 130 | Artificial mains network  | ESH 2-Z5        | 842966/004                             | Rohde & Schwarz |
| 131 | T-network   | ESH 3-Z4        | 890602/011                             | Rohde & Schwarz |
| 132 | T-network   | ESH 3-Z4        | 890602/012                             | Rohde & Schwarz |

## Test Equipment and Ancillaries used for Immunity Tests

| No. | Type                    | Model            | Serial Number            | Manufacturer       |
|-----|-------------------------|------------------|--------------------------|--------------------|
| 201 | ESD simulator           | NSG 435          | 000290                   | Schaffner          |
| 202 | EFT generator           | NSG 1025         | 3020                     | Schaffner          |
| 203 | Ultra compact simulator | UCS              | 1195-30                  | EM Test            |
| 204 | Coupling clamp          | CDN 8014         | 131                      | Schaffner          |
| 205 | Coupling clamp          | SL 400-071D      | 007                      | Schaffner          |
| 206 | Coupling filter         | FP 16            | 080554-14-84             | Haefely            |
| 207 | Oscilloscope            | 2225             | 203550                   | Tektronix          |
| 208 | Signal generator        | SMT 03           | 838129/029<br>837533/032 | Rohde & Schwarz    |
| 209 | Power amplifier         | 150 L            | 8835                     | Amplifier Research |
| 210 | Power amplifier         | 200 W 1000       | 12904                    | Amplifier Research |
| 211 | Power meter             | NRVS             | 838624/016               | Rohde & Schwarz    |
| 212 | E-field generator       | 3107 B           | 2302                     | Emco               |
| 213 | Biconical antenna       | VHBA 9123        | 1018                     | Schwarzbeck        |
| 214 | Log. periodic antenna   | AT 1080          | 12834                    | Amplifier Research |
| 215 | Isotropic field probe   | FP 2000          | 12847                    | Amplifier Research |
| 216 | Isotropic field monitor | FM 2004          | 12632                    | Amplifier Research |
| 217 | Ultra compact simulator | UCS              | 1195-30                  | EM Test            |
| 218 | Surge generator         | NSG 650          | 1679204                  | Schaffner          |
| 219 | Coupling network        | CDN 110          | 1649135                  | Schaffner          |
| 220 | Coupling network        | CDN 115          | 132                      | Schaffner          |
| 221 | Dropping resistor       | INA 110-40       | 121                      | Schaffner          |
| 222 | Oscilloscope            | HM 408           | 9005 F 3144              | Hameg              |
| 223 | Signal generator        | SMX              | 883184/018               | Rohde & Schwarz    |
| 224 | Power amplifier         | 411 LA           | 299                      | ENI                |
| 225 | Power amplifier         | HVV 250          | 836956/004               | Rohde & Schwarz    |
| 226 | Power meter             | NRV              | 863825/018               | Rohde & Schwarz    |
| 227 | Coupling network        | FCC - 801- M3-25 | 117                      | FCC                |
| 228 | Coupling network        | FCC - 801- M4-25 | 17                       | FCC                |
| 229 | Coupling network        | FCC - 801- M5-25 | 16                       | FCC                |
| 230 | Coupling network        | FCC - 801- AF4   | 47                       | FCC                |
| 231 | Coupling network        | FCC - 801- AF4   | 48                       | FCC                |
| 232 | Coupling network        | FCC - 801-T4     | 68                       | FCC                |
| 233 | Coupling network        | FCC - 801- C1    | 64                       | FCC                |
| 234 | Coupling network        | CDN 801-M3       | --                       | Senton             |
| 235 | Coupling network        | CDN 801-S37      | --                       | Senton             |
| 236 | Current clamp           | FCC-120-9B       | 15                       | FCC                |
| 237 | EM injection clamp      | EM 101           | 35354                    | Lüthi              |
| 238 | Ultra compact simulator | UCS 500          | 1195-30                  | EM Test            |
| 239 | Transformer             |                  |                          | Senton             |
| 240 | Oscilloscope            | 54602B           | US35060304               | Hewlett Packard    |

## Test Equipment and Ancillaries used for Emission Tests (continued)

| No. | Instrument/Ancillary         | Type     | Serial Number | Manufacturer        |
|-----|------------------------------|----------|---------------|---------------------|
| 134 | High impedance probe         | TK 9416  | 01            | Schwarzbeck         |
| 135 | High impedance probe         | TK 9416  | 02            | Schwarzbeck         |
| 136 | Current probe                | ESH 2-Z1 | 863366/18     | Rohde & Schwarz     |
| 137 | Current probe                | ESV-Z1   | 862553/3      | Rohde & Schwarz     |
| 138 | Absorbing clamp              | MDS 21   | 80911         | Lüthi               |
| 139 | Absorbing clamp              | MDS 21   | 79690         | Lüthi               |
| 140 | Loop antenna                 | HFH2-Z2  | 882964/1      | Rohde & Schwarz     |
| 141 | Biconical antenna            | HK 116   | 836239/02     | Rohde & Schwarz     |
| 142 | Biconical antenna            | HK 116   | 842204/001    | Rohde & Schwarz     |
| 143 | Log. periodic antenna        | HL 223   | 834408/12     | Rohde & Schwarz     |
| 144 | Log. periodic antenna        | HL 223   | 841516/023    | Rohde & Schwarz     |
| 145 | Horn antenna 1 - 18 GHz      | 3115     | 9508-4553     | Emco                |
| 146 | Horn antenna 1.7 - 2.6 GHz   | 3160-03  | 9112-1003     | Emco                |
| 147 | Horn antenna 2.6 - 3.95 GHz  | 3160-04  | 9112-1001     | Emco                |
| 148 | Horn antenna 3.95 - 5.85 GHz | 3160-05  | 9112-1001     | Emco                |
| 149 | Horn antenna 5.85 - 8.2 GHz  | 3160-06  | 9112-1001     | Emco                |
| 150 | Horn antenna 8.2 - 12.4 GHz  | 3160-07  | 9112-1008     | Emco                |
| 151 | Horn antenna 12.4 - 18 GHz   | 3160-08  | 9112-1002     | Emco                |
| 152 | Horn antenna 18 - 26.5 GHz   | 3160-09  | 9403-1025     | Emco                |
| 152 | Horn Antenna 26.5 - 40 GHz   | 3160-10  | 9704-1047     | Emco                |
| 153 | Stub tuner                   | 904N     | 04            | Narda               |
| 154 | Mains analyzer               | DPA 503  | 496 - 02      | EM Test             |
| 155 | Controller                   | HIS 500  | X71010        | EM Test             |
| 156 | AC Amplifier                 | ACS 500  | HK51736       | EM Test             |
| 157 | Mains impedance              | AIF 500  | X71062        | EM Test             |
| 158 | Dual Directional Coupler     | 778D     | 0826A01562    | Hewlett Packard     |
| 159 | Data Analyzer                | DA-10    | J-0048        | Wandel & Goltermann |

10. Charts Taken During Testing

# Radiated Emissions Measurements according to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

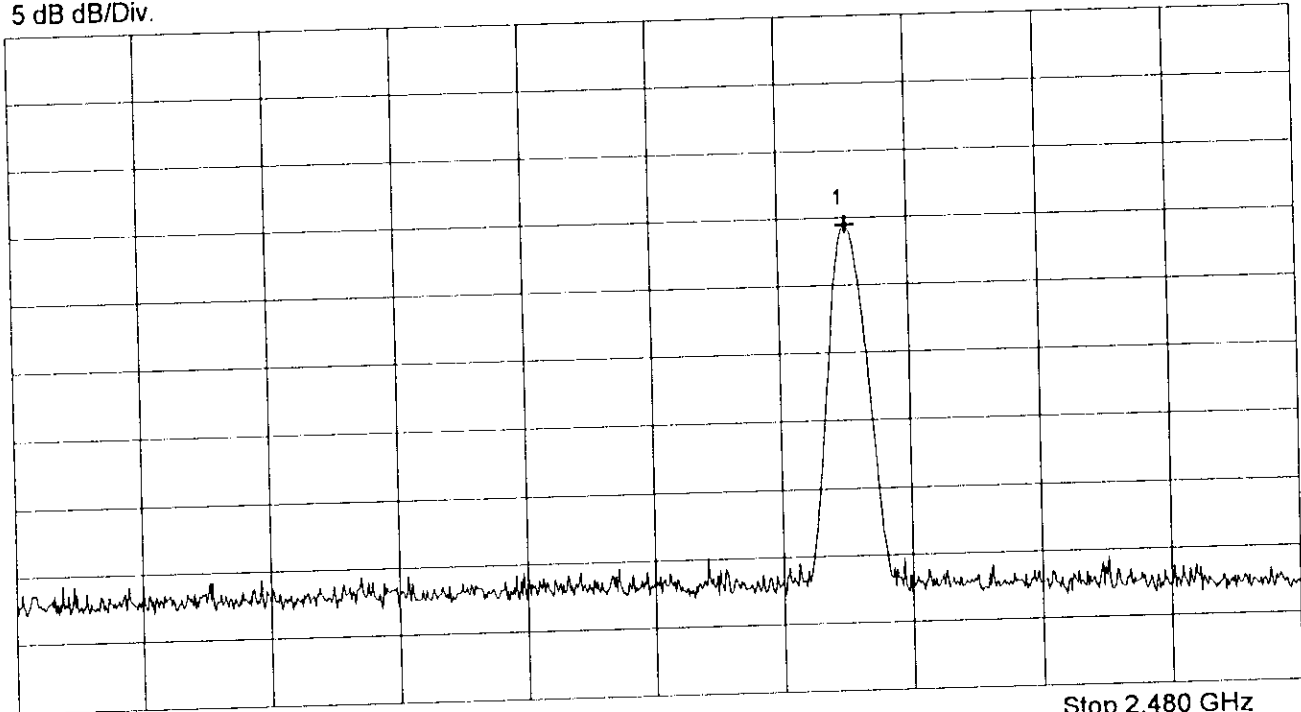
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 21 (2451.5 MHz)

Horizontal Polarization, Test distance 3 m

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

2.452178 GHz

61.48 dB $\mu$ V

Tested by:

Project-No.:

Date:

Page of pages

# Radiated Emissions Measurements according to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

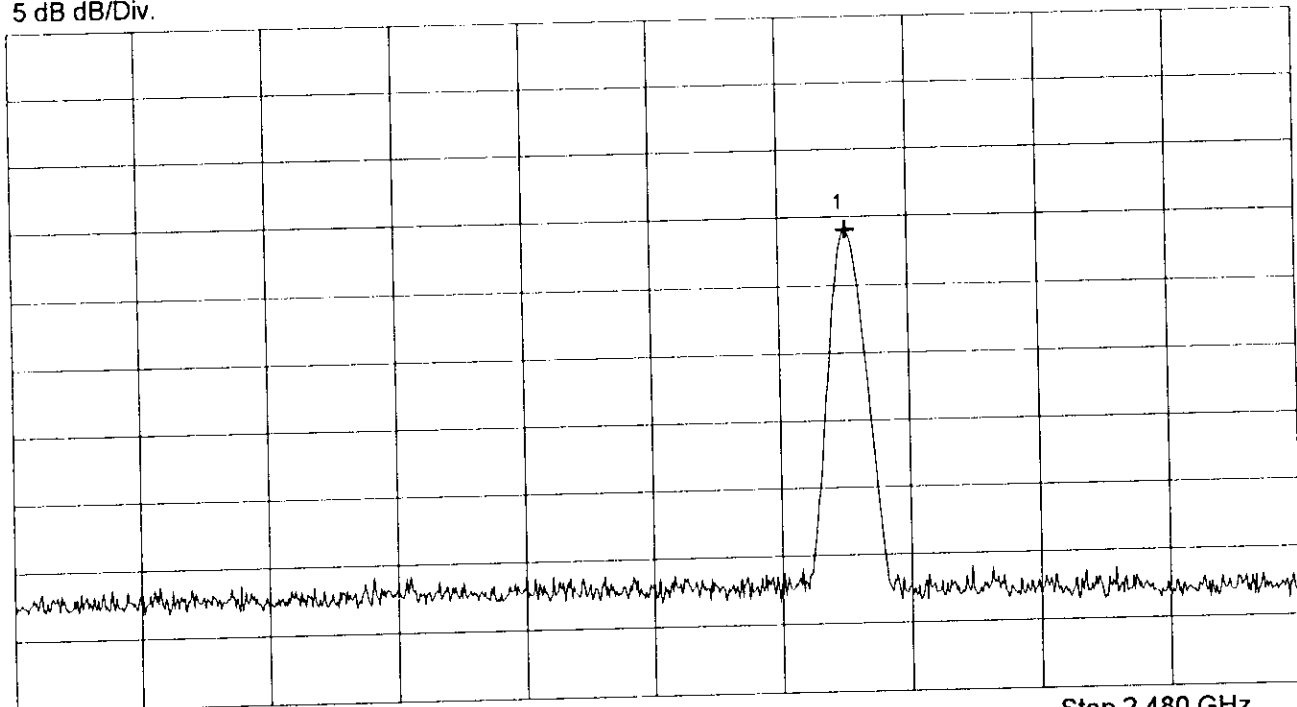
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 21 (2451.5 MHz)

Vertical Polarization, Test distance 3 m

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

2.452178 GHz

61.06 dB $\mu$ V

Tested by:

Project-No.:

Date:

Page of pages



# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

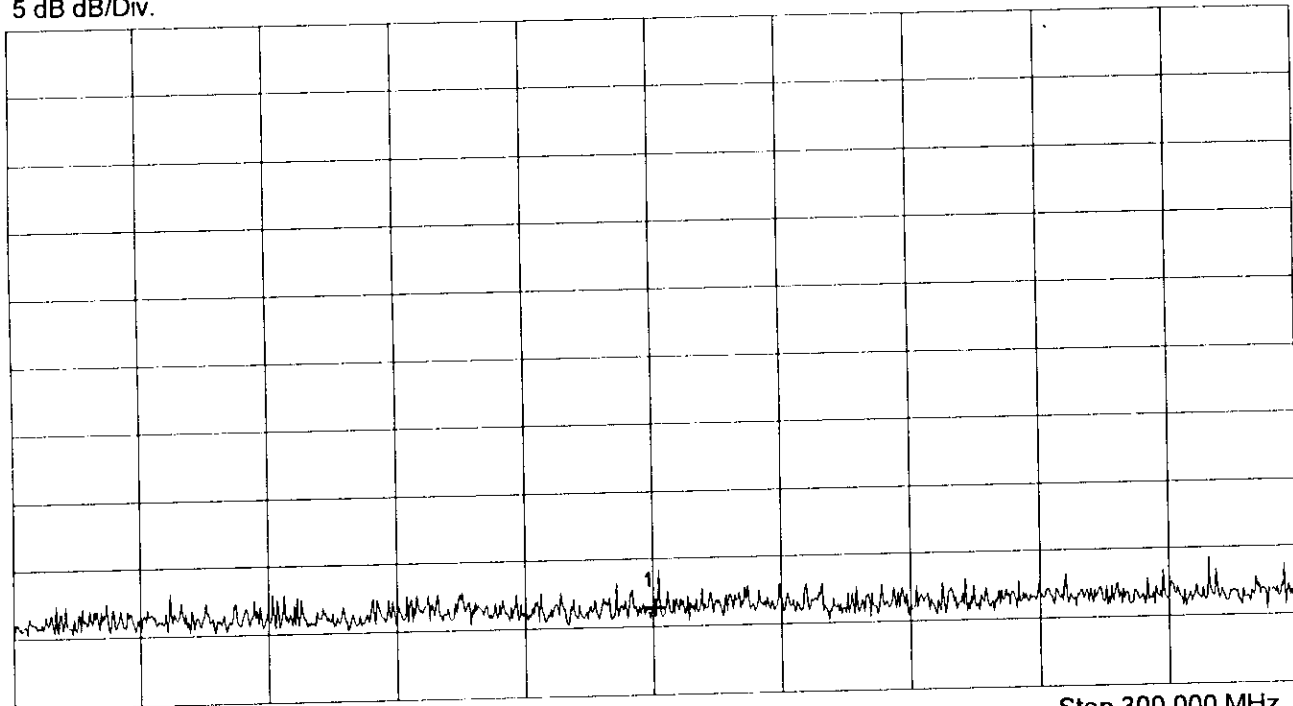
Mode:  
Supply voltage 5 V DC

TX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

165.300000 MHz

3.38 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

Date:

Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

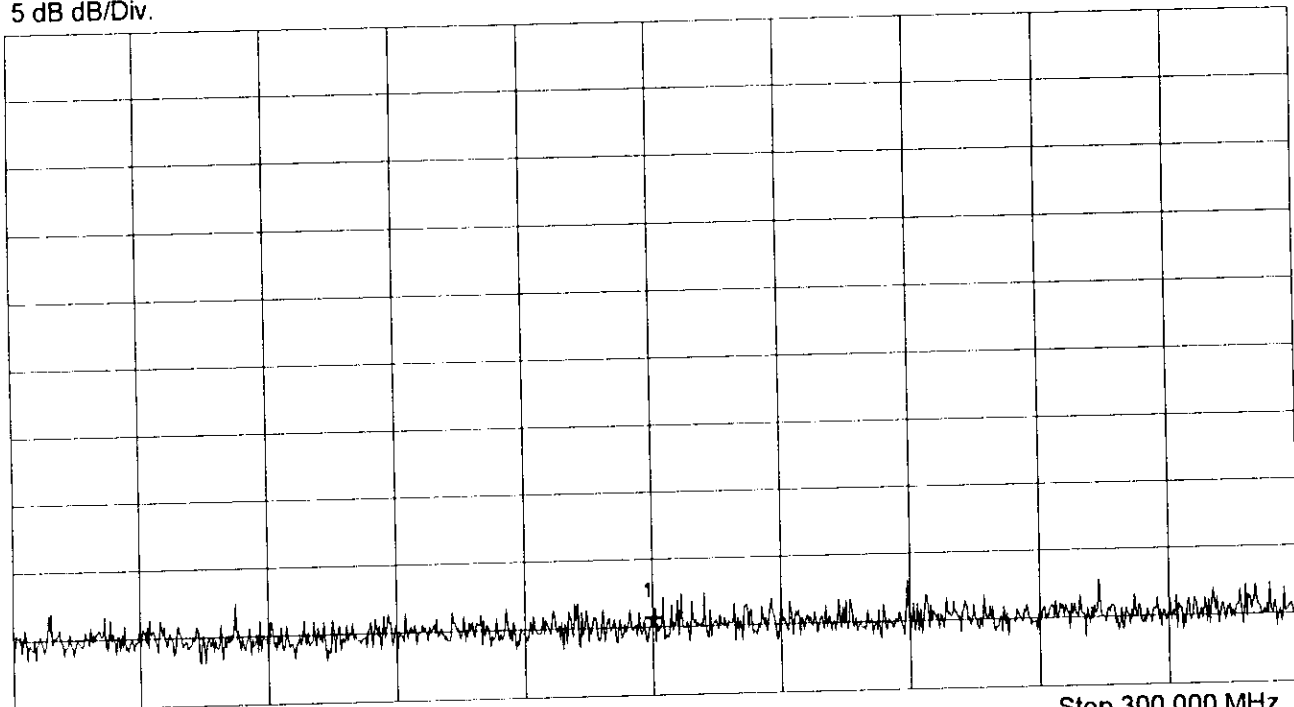
Mode:  
Supply voltage 5 V DC

TX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 2.67 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

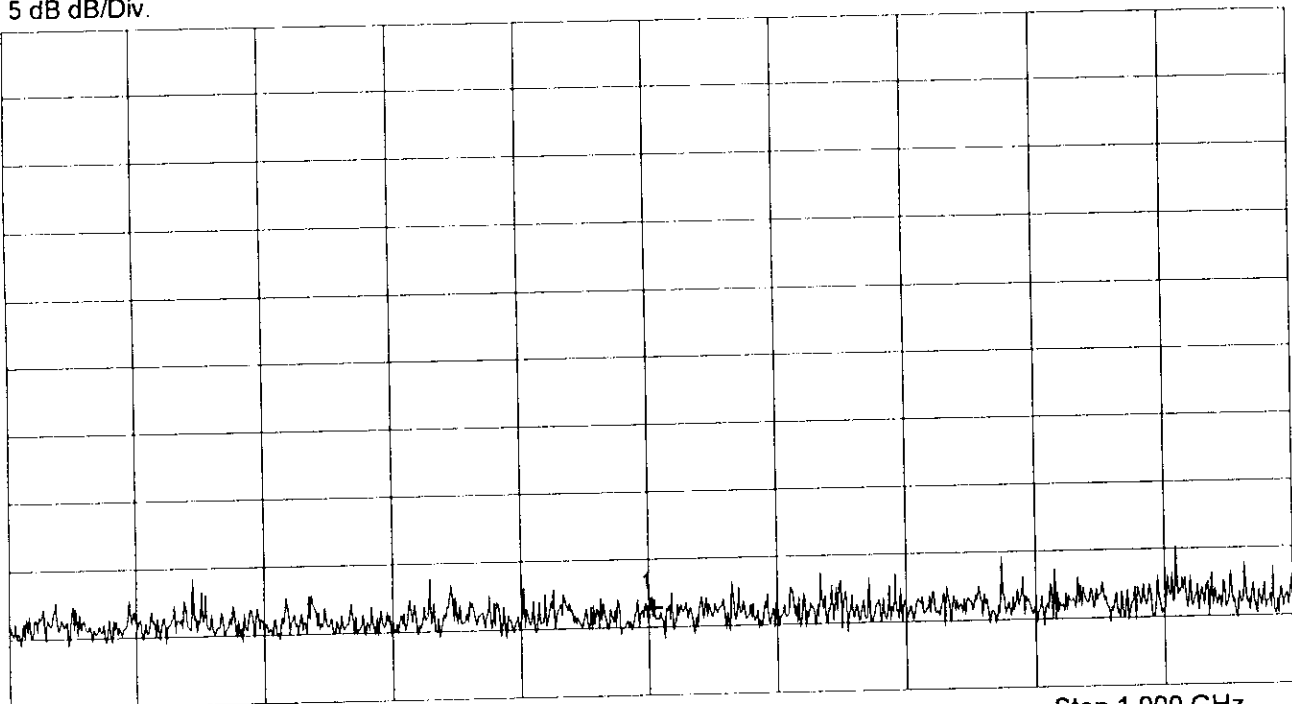
Mode:  
Supply voltage 5 V DC

TX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal polarization

Ref. Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 652.333333 MHz | 3.39 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

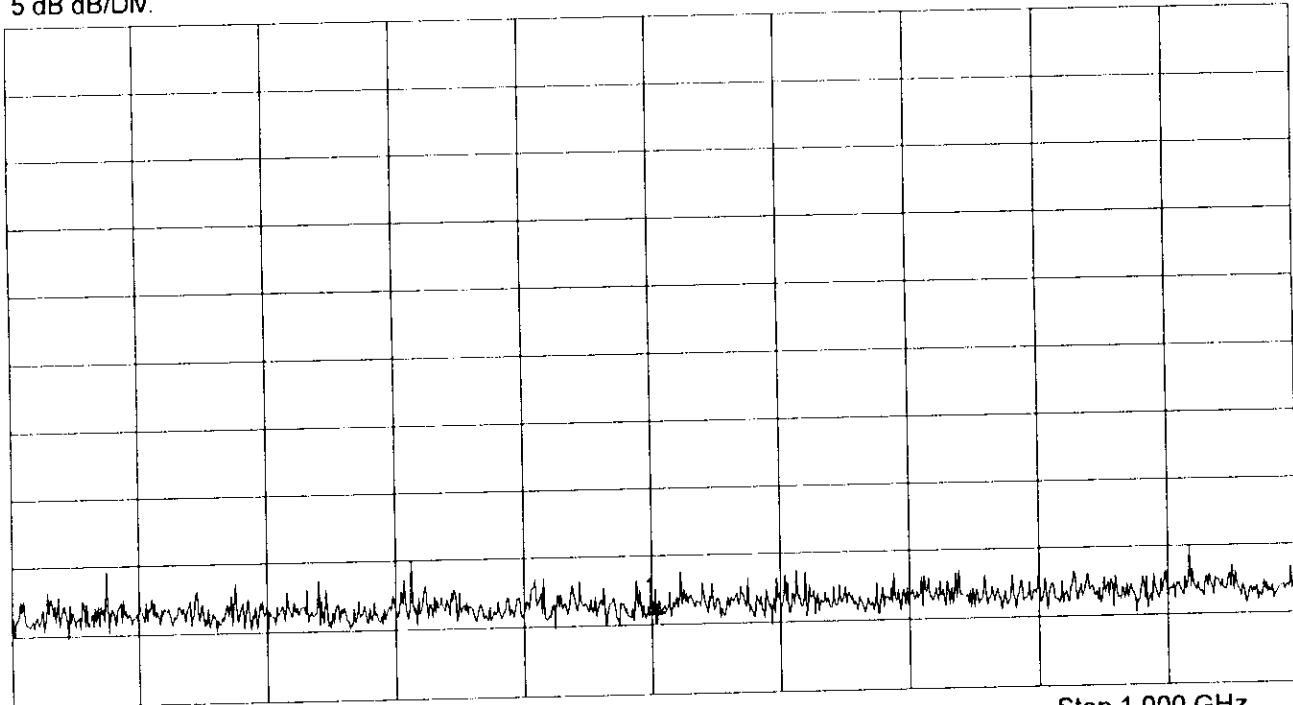
Mode:  
Supply voltage 5 V DC

TX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 652.333333 MHz | 2.76 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

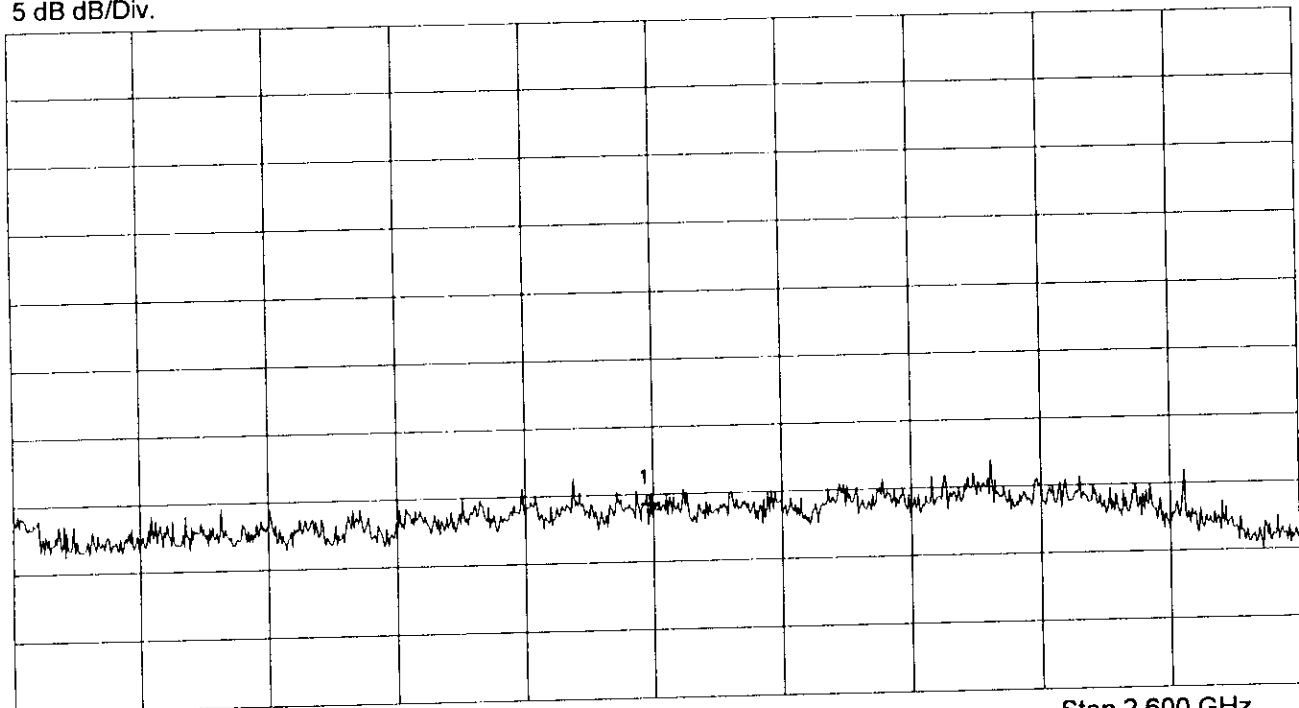
TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 1.796444 GHz | 5.75 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

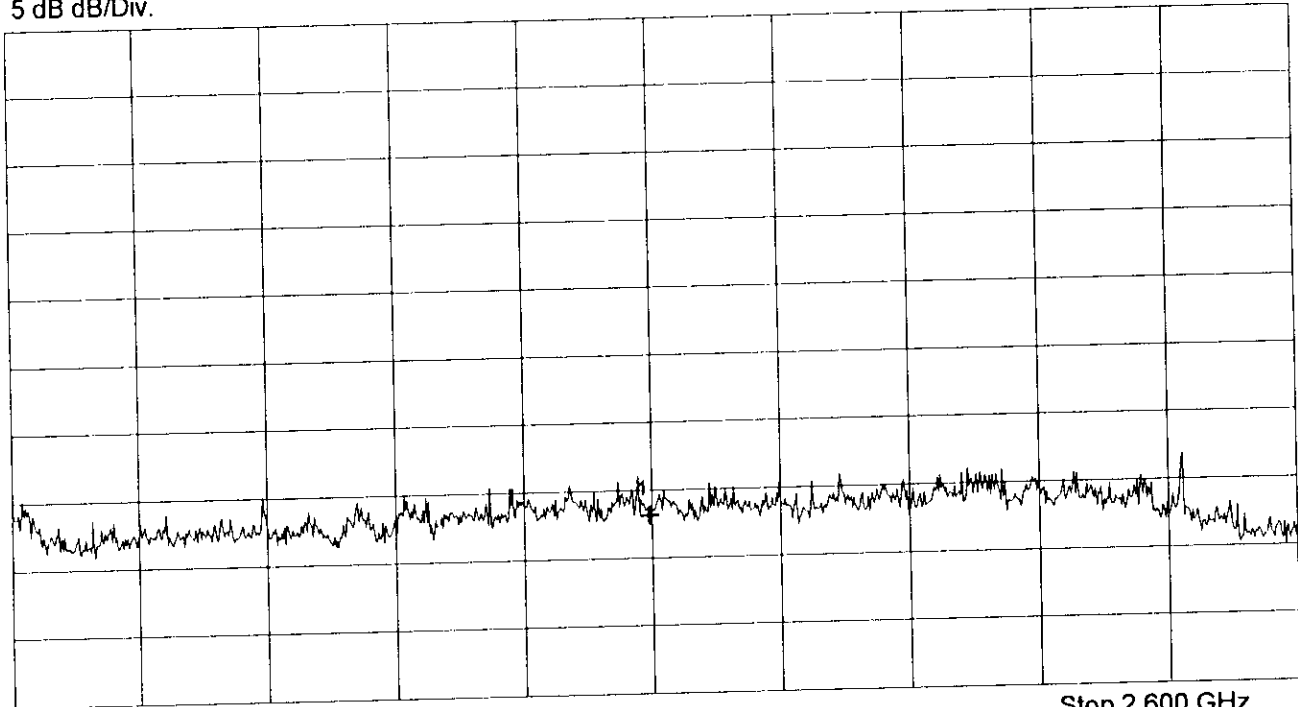
TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

1.796444 GHz

4.63 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

Date:

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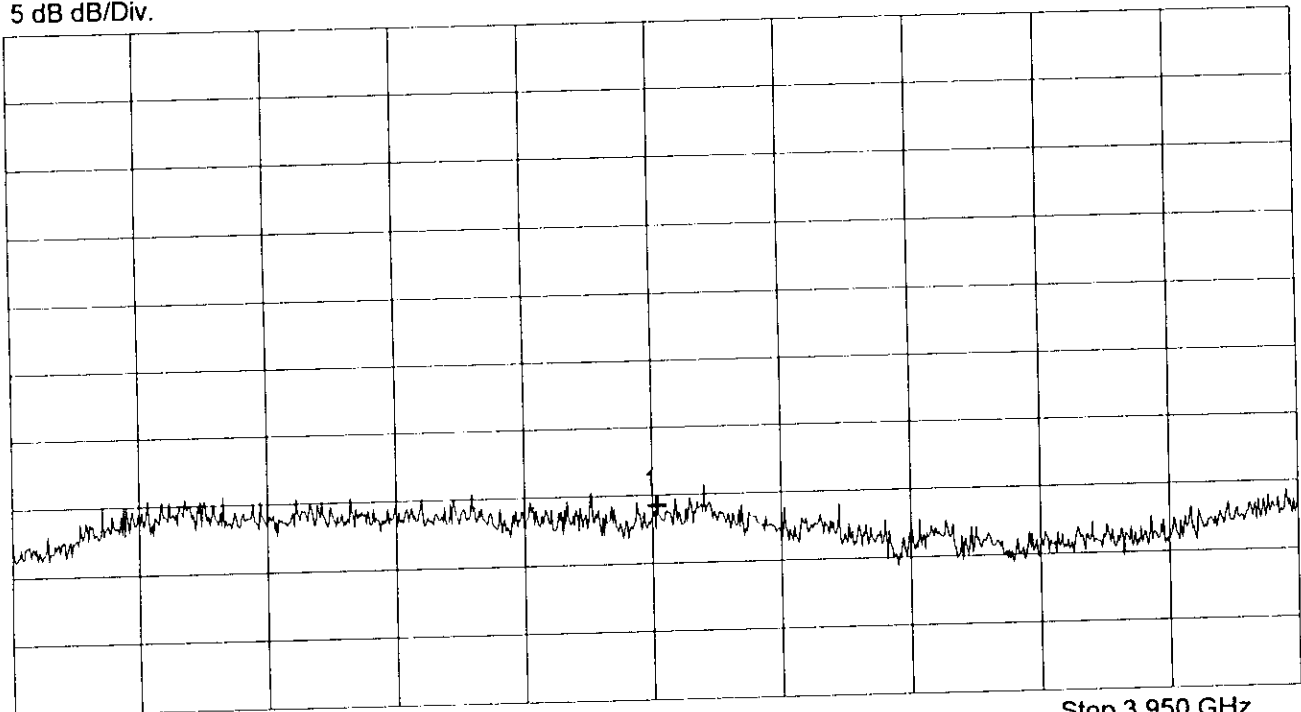
# Radiated Emissions Measurement acc. to FCC Rules

|                              |  |
|------------------------------|--|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br>Sample No. 1  | TX mode, Channel 21 (2451.5 MHz)           |
| Applicant:<br>Siemens AG     | Test distance 1 m<br>Vertical Polarization |
|                              | Noch Filter on TX Frequency                |
|                              |  |
|                              |  |

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|  |                       |                 |
|--|-----------------------|-----------------|
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br>3.279500 GHz | 5.73 dB $\mu$ V |
|--|-----------------------|-----------------|

Tested by:  
**Johann Roidt**

Project-No.:  
 \_\_\_\_\_

Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

---

Serial No.:  
Sample No. 1

---

Applicant:  
Siemens AG

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Mode:  
Supply voltage 5 V DC

TX mode, Channel 21 (2451.5 MHz)

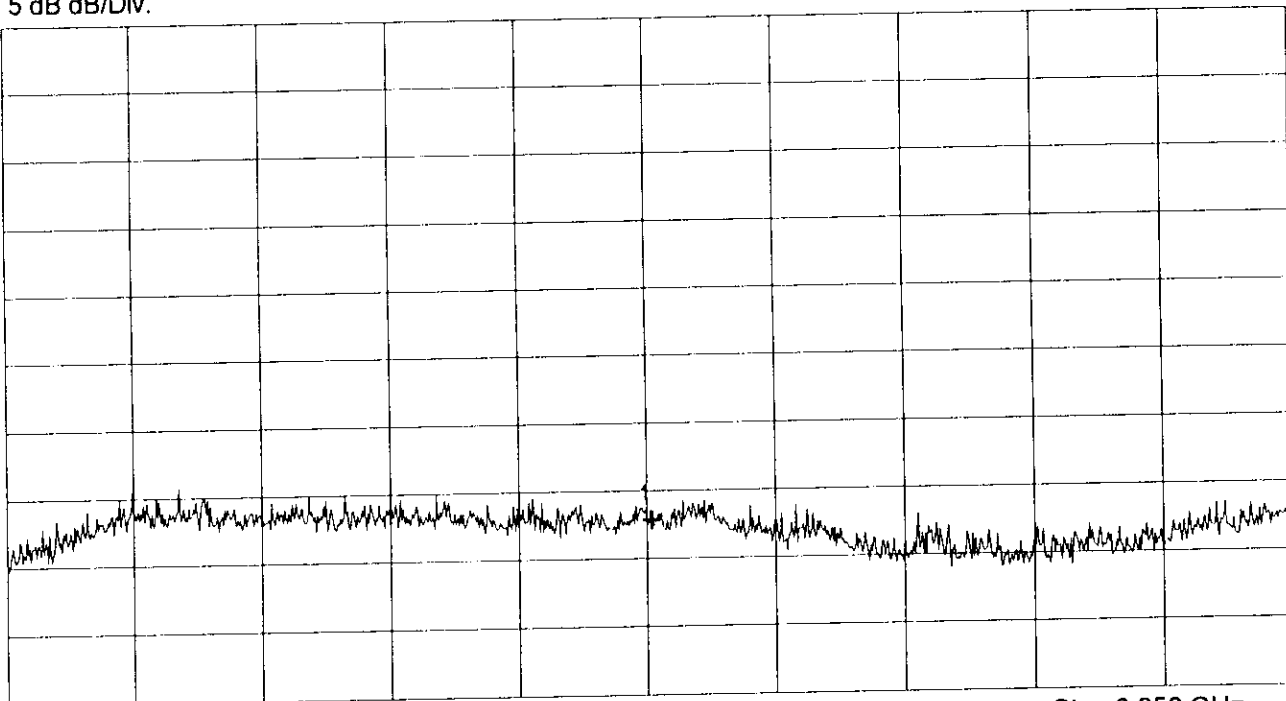
Test distance 1 m  
Horizontal Polarization

Noch Filter on TX Frequency

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.279500 GHz | 4.34 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

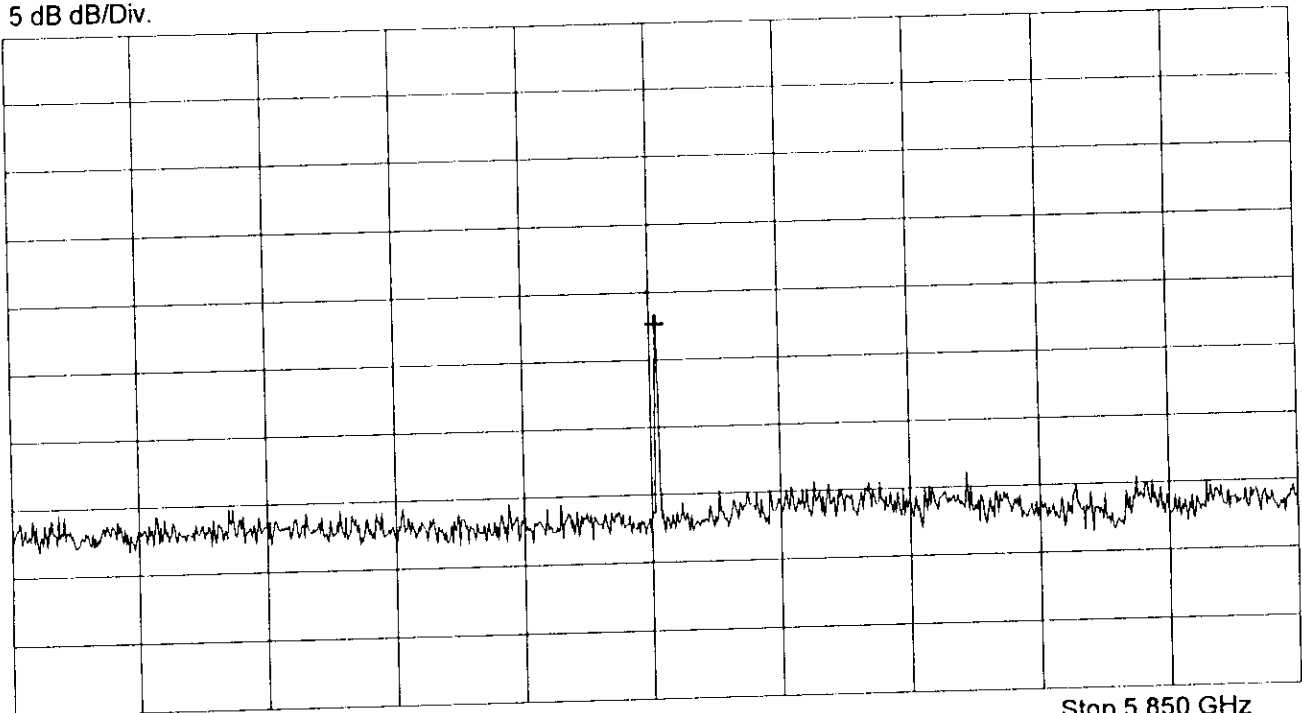
|                             |
|-----------------------------|
| Model:<br>SRIF Module       |
| Serial No.:<br>Sample No. 1 |
| Applicant:<br>Siemens AG    |
|                             |
|                             |
|                             |
|                             |

|  |
|--|
| Mode:<br>Supply voltage 5 V DC             |
| TX mode, Channel 21 (2451.5 MHz)           |
| Test distance 1 m<br>Vertical Polarization |
|  |
| Noch Filter on TX Frequency                |

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

|  |              |                  |
|--|--------------|------------------|
| **** Multi Marker ****                                       |              |                  |
|  | -----        |                  |
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | 4.908444 GHz | 19.15 dB $\mu$ V |

|                            |
|----------------------------|
| Tested by:<br>Johann Roidt |
|----------------------------|

|               |
|---------------|
| Project-No.:  |
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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 21 (2451.5 MHz)

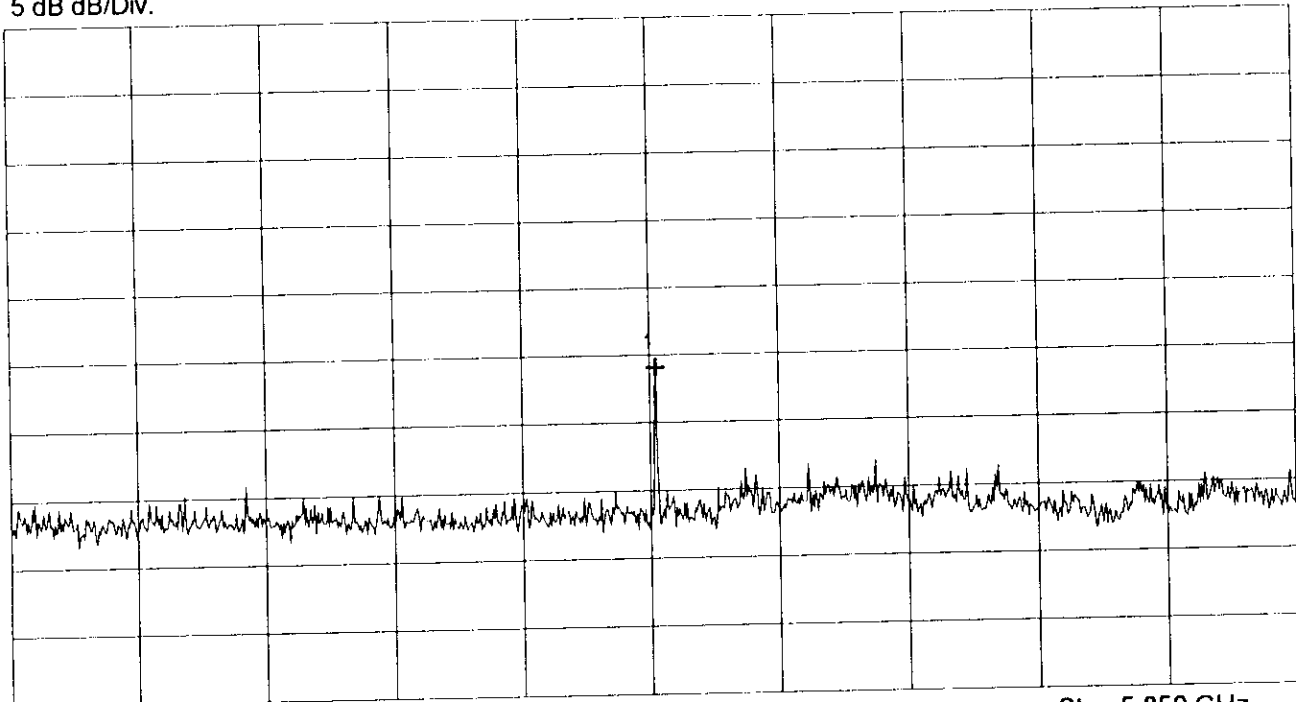
Test distance 1 m  
Horizontal Polarization

Noch Filter on TX Frequency

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 4.908444 GHz | 15.53 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

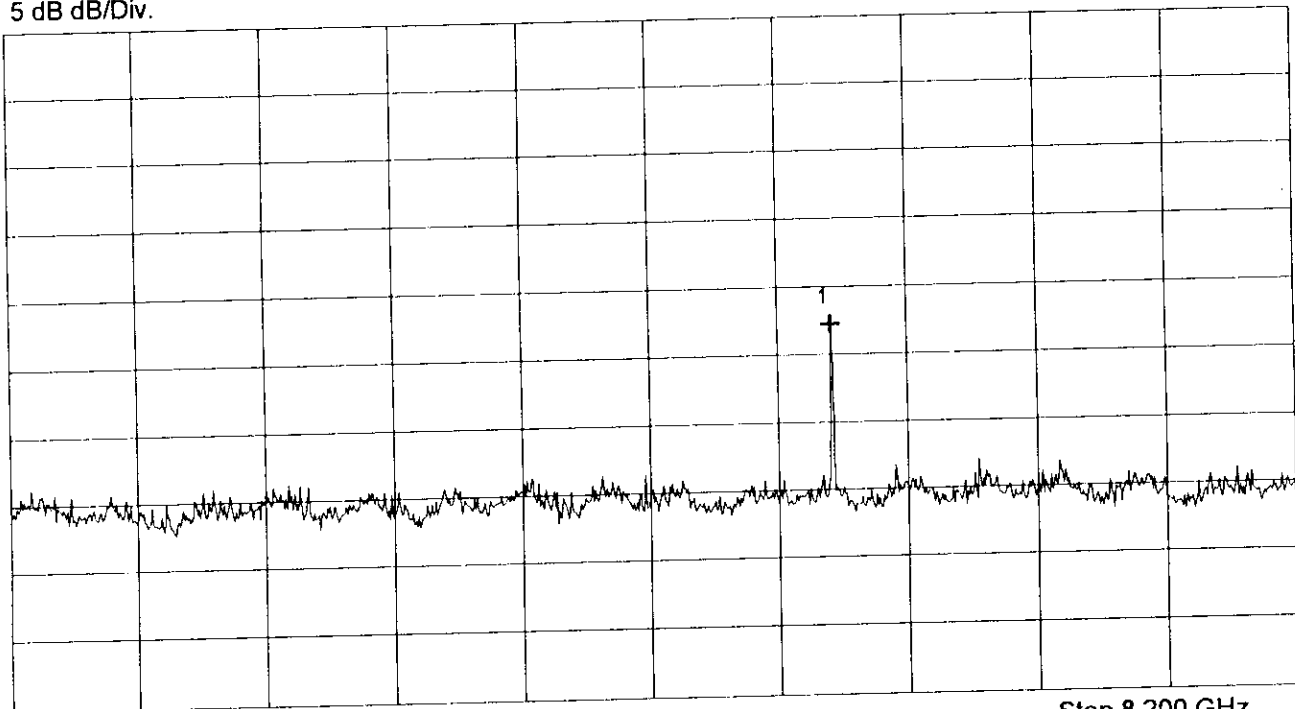
TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

Nr.1  
Nr.2  
Nr.3  
Nr.4  
Nr.5  
Nr.6  
Nr.7  
Nr.8

7.356611 GHz

18.74 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

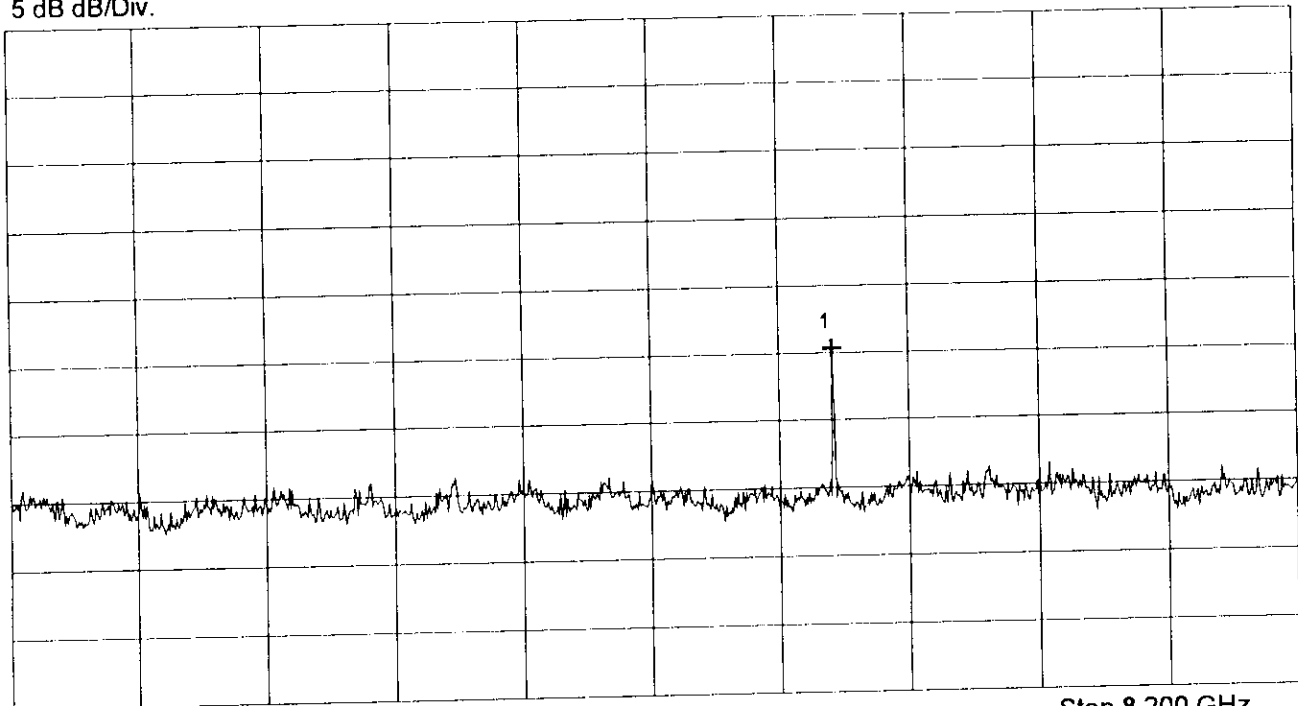
TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 7.356611 GHz | 16.84 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

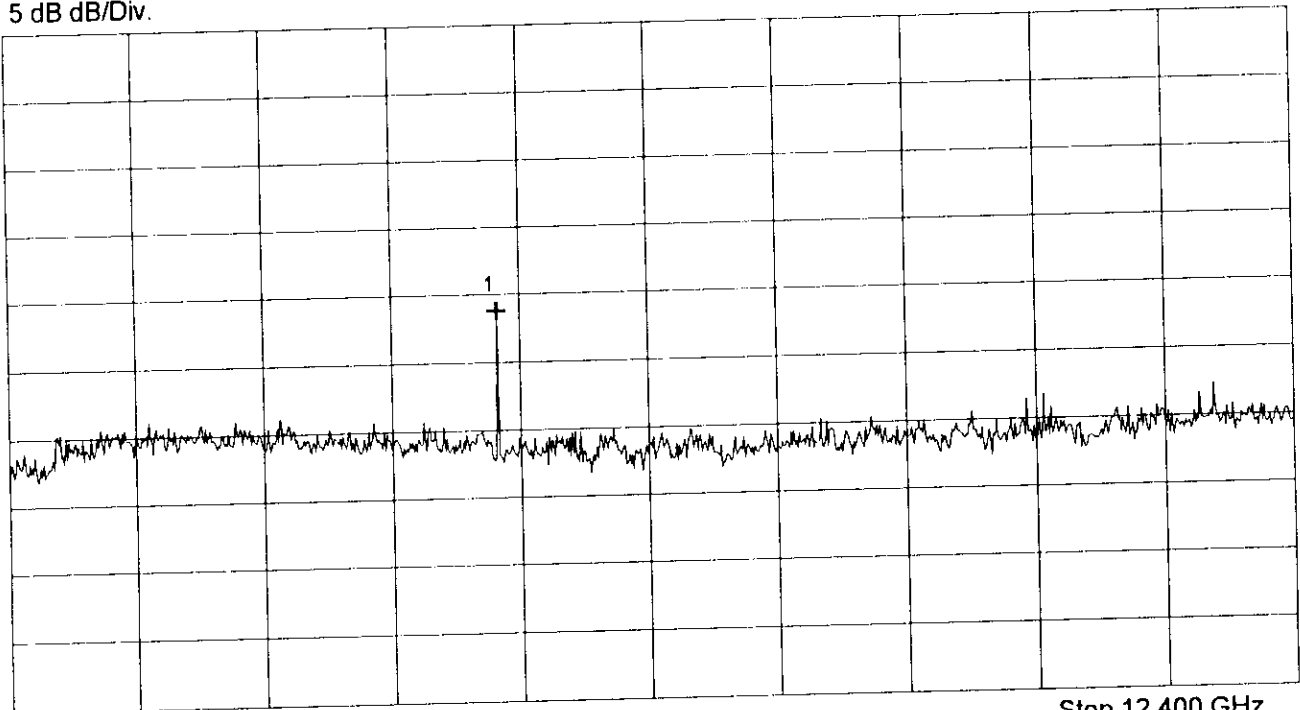
TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

9.805333 GHz

15.75 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

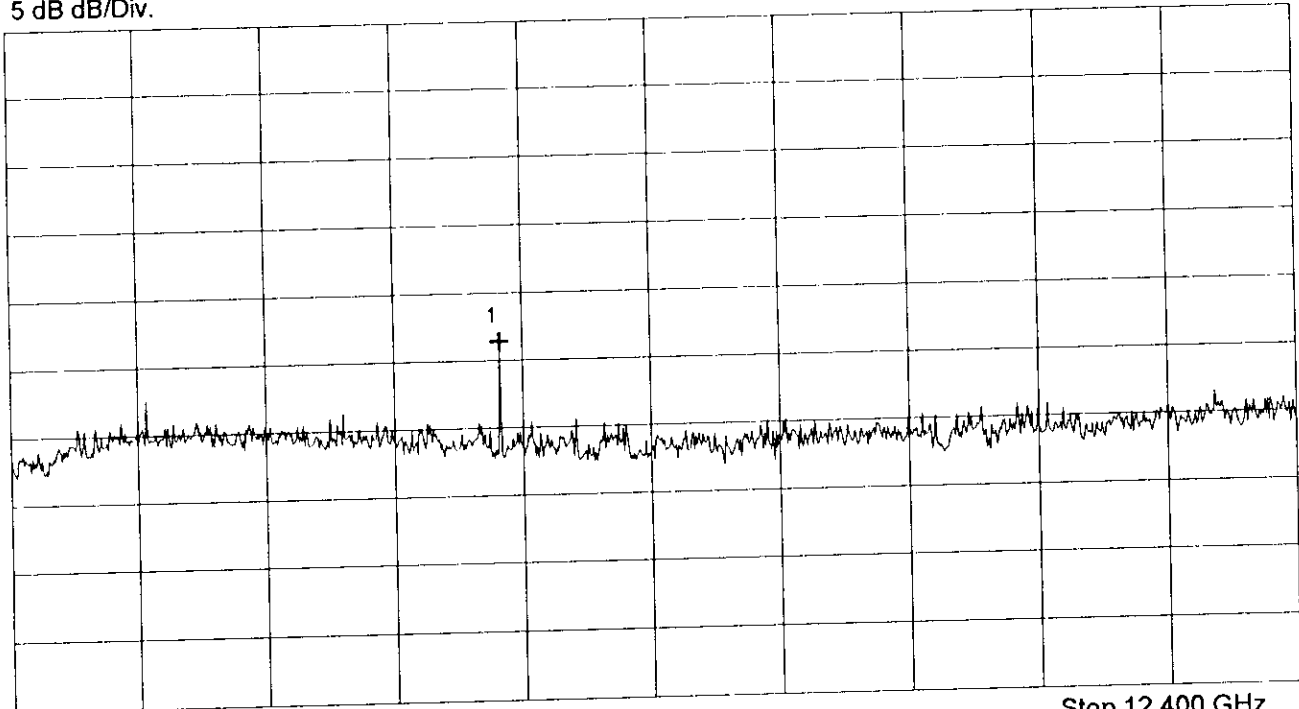
|                             |
|-----------------------------|
| Model:<br>SRIF Module       |
| Serial No.:<br>Sample No. 1 |
| Applicant:<br>Siemens AG    |
|                             |
|                             |
|                             |
|                             |

|  |
|--|
| Mode:<br>Supply voltage 5 V DC               |
| TX mode, Channel 21 (2451.5 MHz)             |
| Test distance 1 m<br>Horizontal Polarization |

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
|      | -----        |                  |
| Nr.1 | 9.805333 GHz | 13.38 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

|                            |
|----------------------------|
| Tested by:<br>Johann Roidt |
| Date:                      |

|               |
|---------------|
| Project-No.:  |
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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

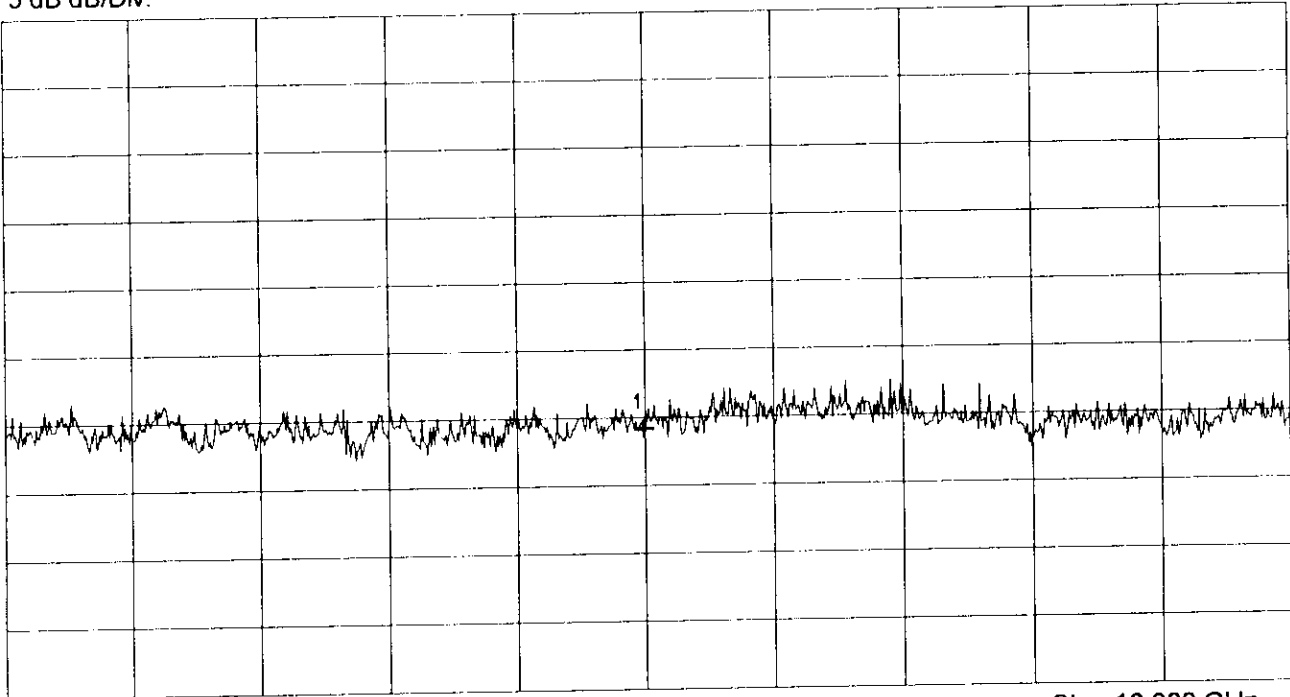
TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 15.193778 GHz | 6.14 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

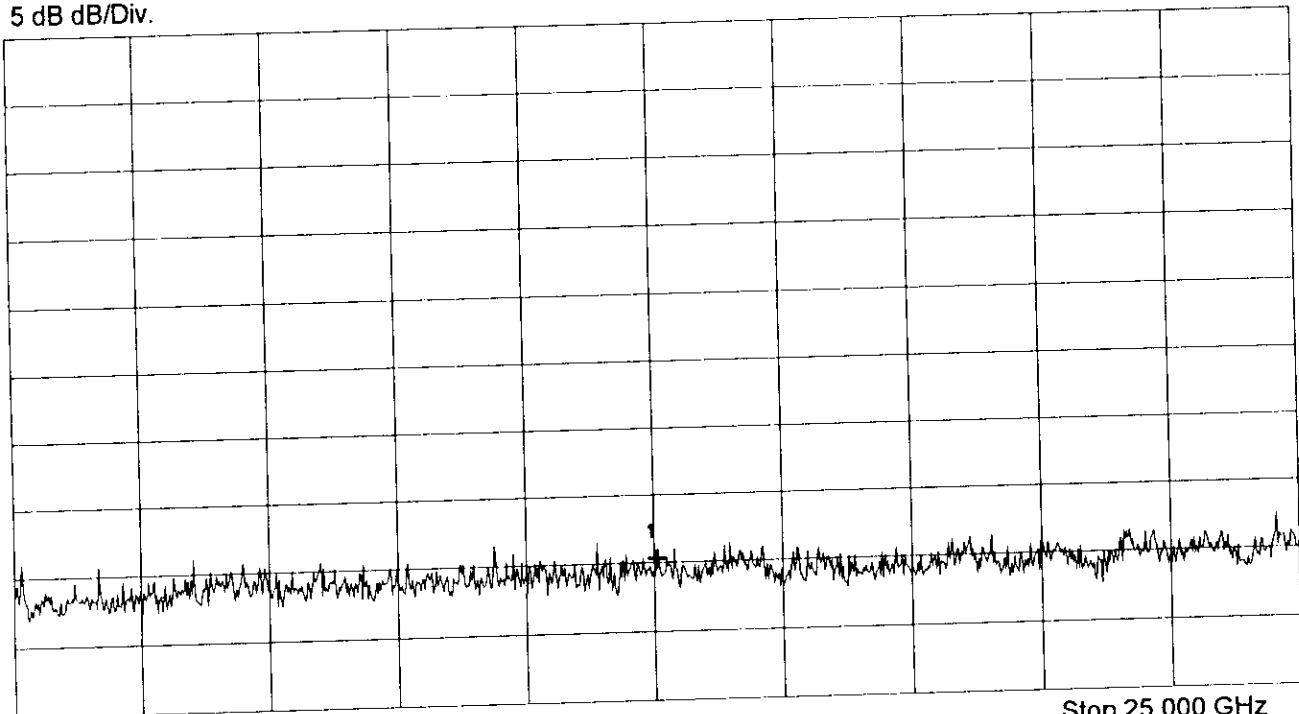
Mode:  
Supply voltage 5 V DC

TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref. Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 21.515556 GHz | 7.25 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

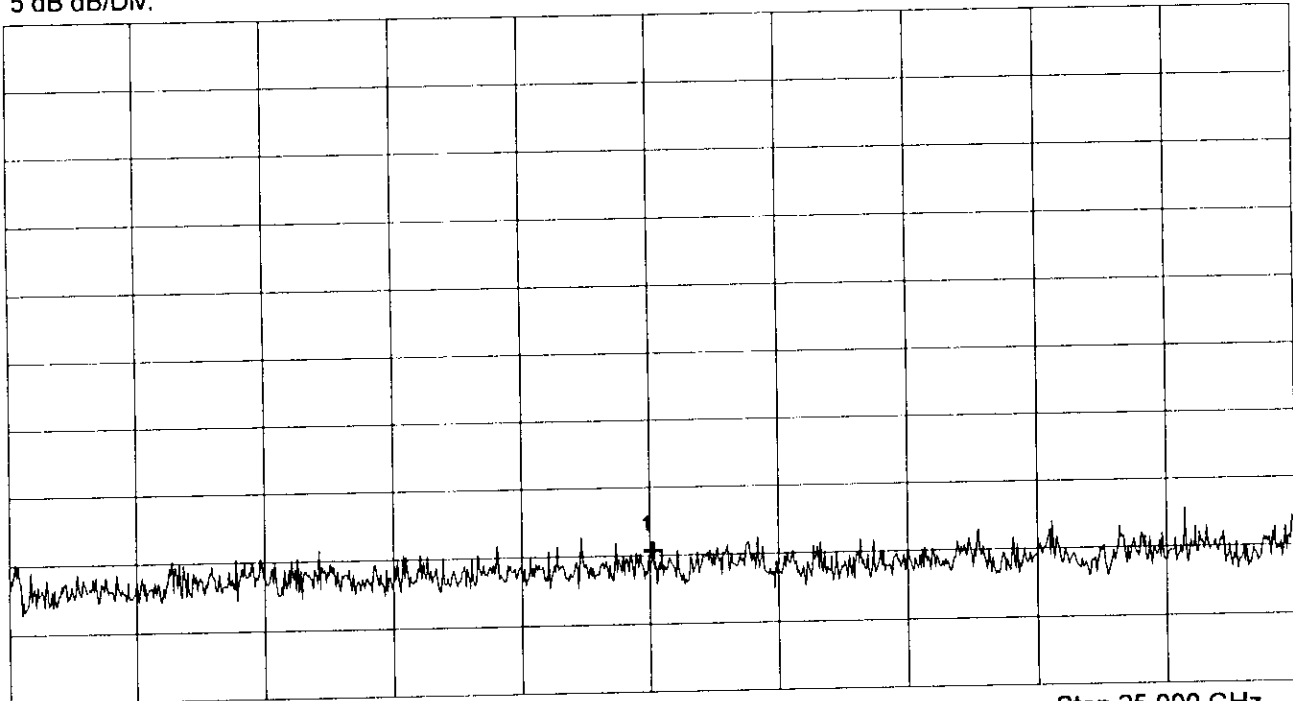
Mode:  
Supply voltage 5 V DC

TX mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref. Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 21.515556 GHz | 7.29 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurements according to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

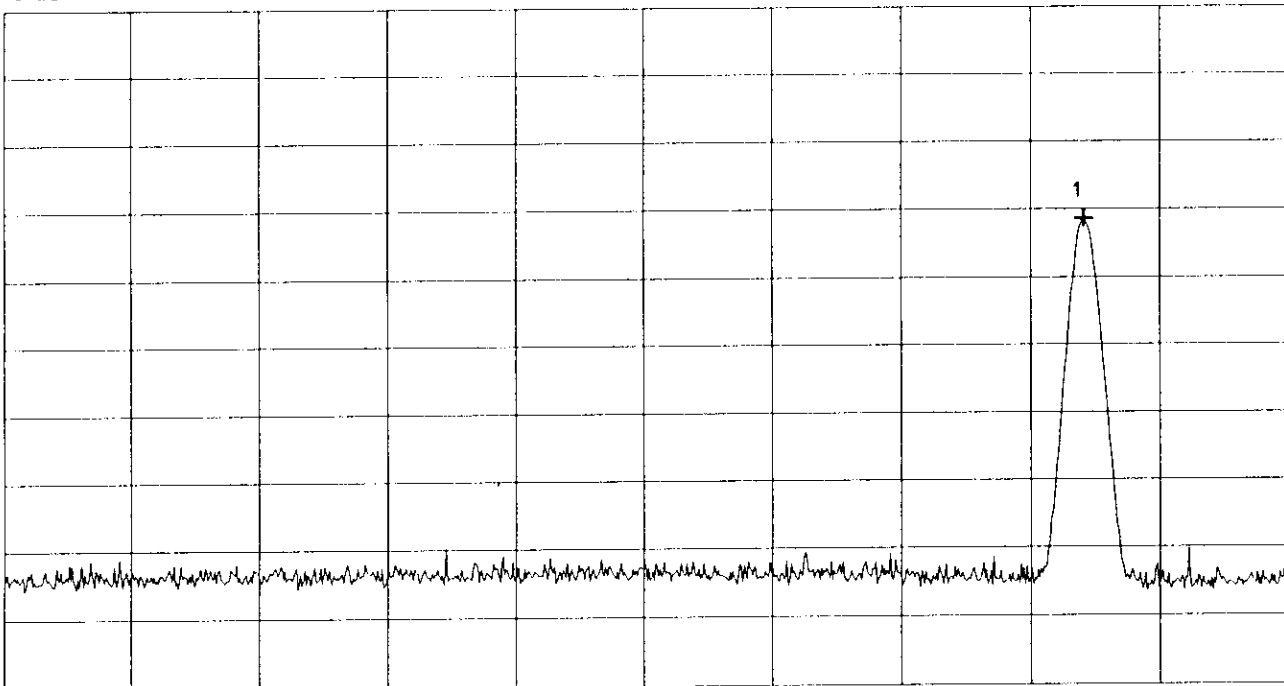
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 27 (2466.5 MHz)

Horizontal Polarization, Test distance 3 m

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Amplitude (dB $\mu$ V) |
|------|-----------------|------------------------|
| Nr.1 | 2.467289        | 61.29                  |
| Nr.2 |                 |                        |
| Nr.3 |                 |                        |
| Nr.4 |                 |                        |
| Nr.5 |                 |                        |
| Nr.6 |                 |                        |
| Nr.7 |                 |                        |
| Nr.8 |                 |                        |

Tested by:

Project-No.:

Date:

# Radiated Emissions Measurements according to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

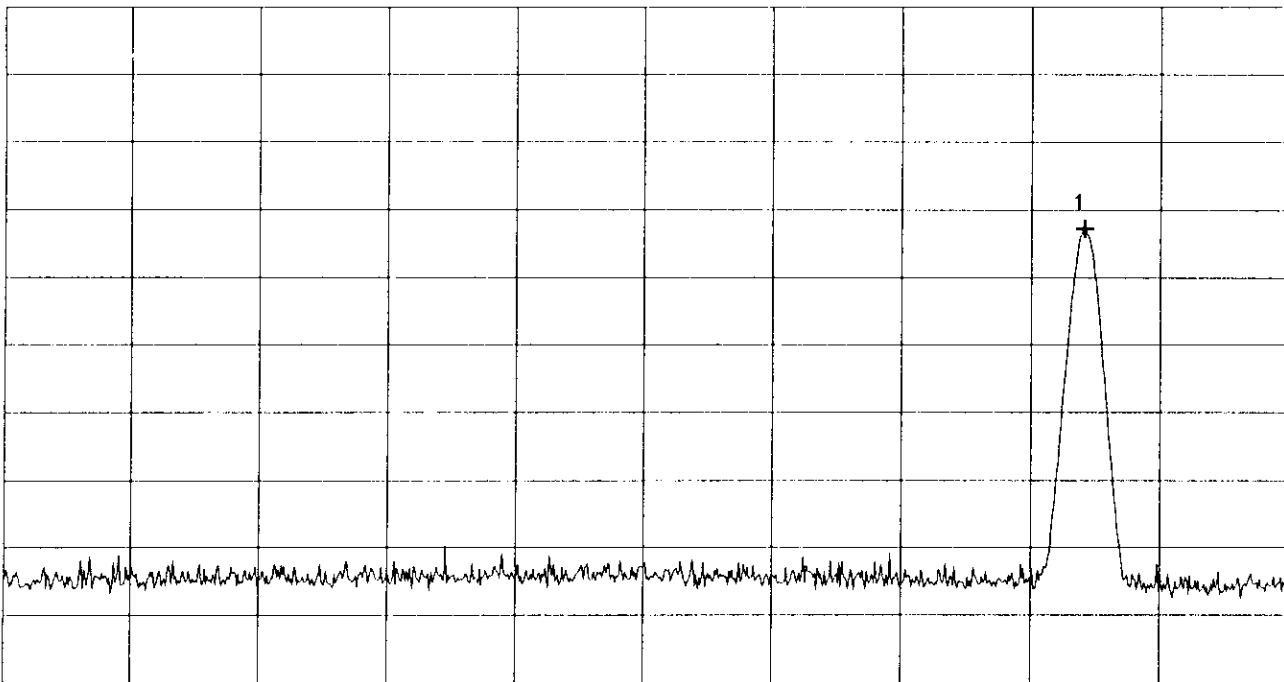
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 27 (2466.5 MHz)

Vertical Polarization, Test distance 3 m

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.467289 GHz | 60.61 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

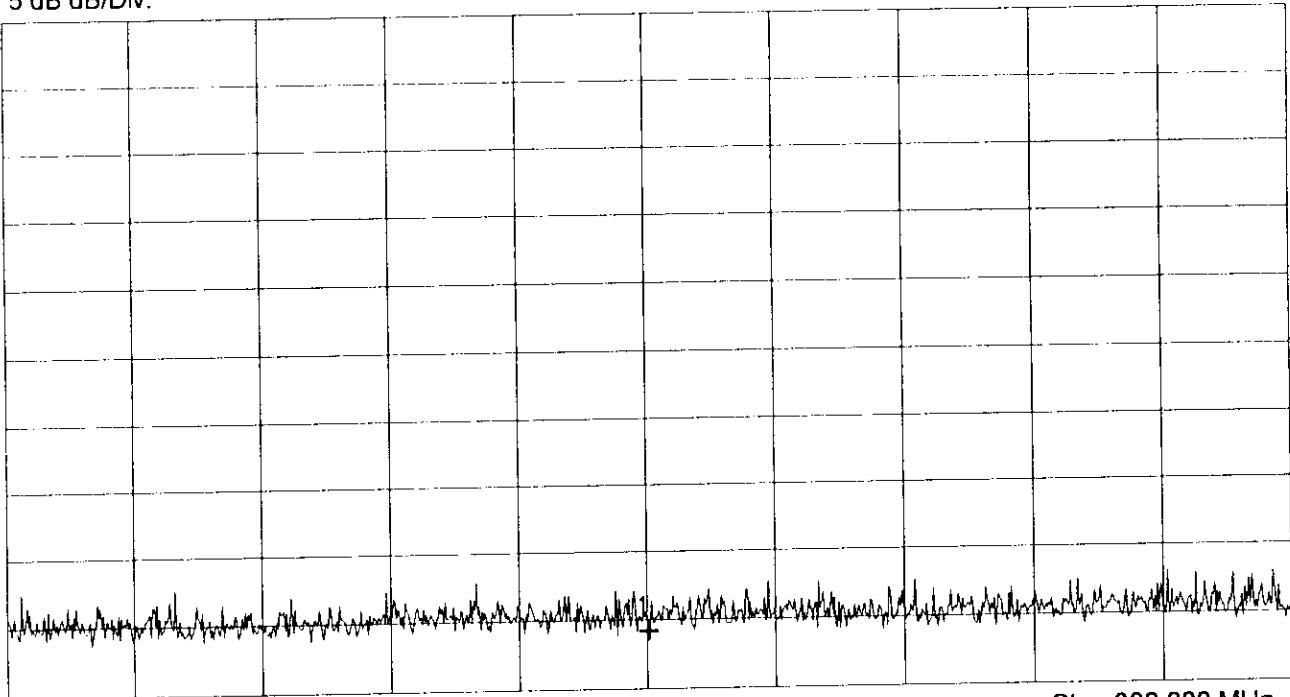
Mode:  
Supply voltage 5 V DC

TX mode, channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 1.18 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

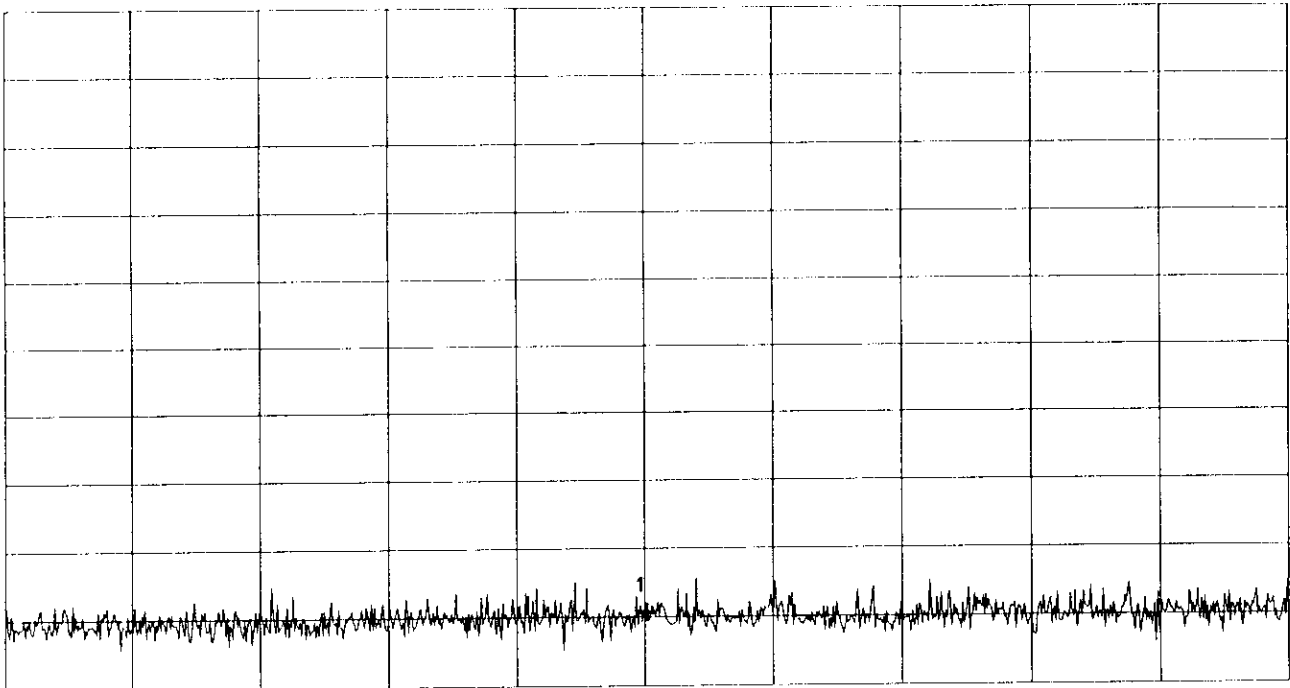
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# Radiated Emissions Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br>Sample No. 1 | TX mode, channel 27 (2466.5 MHz)           |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Vertical polarization |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 2.31 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

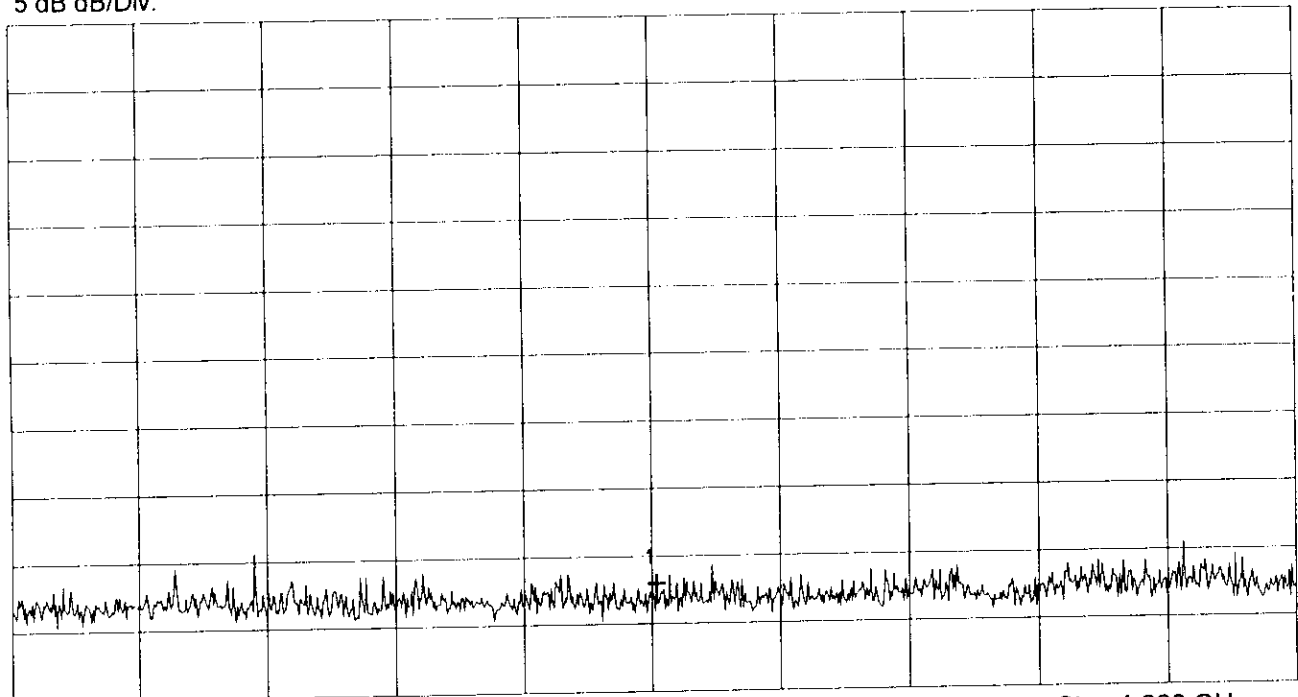
|                            |               |
|----------------------------|---------------|
| Tested by:<br>Johann Roidt | Project-No.:  |
| Date:                      | Page of pages |

# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>TX mode, channel 27 (2466.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Vertical polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

|                        |                |                 |
|------------------------|----------------|-----------------|
| **** Multi Marker **** |                |                 |
|                        | -----          |                 |
| Nr.1                   | 652.333333 MHz | 4.95 dB $\mu$ V |
| Nr.2                   |                |                 |
| Nr.3                   |                |                 |
| Nr.4                   |                |                 |
| Nr.5                   |                |                 |
| Nr.6                   |                |                 |
| Nr.7                   |                |                 |
| Nr.8                   |                |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

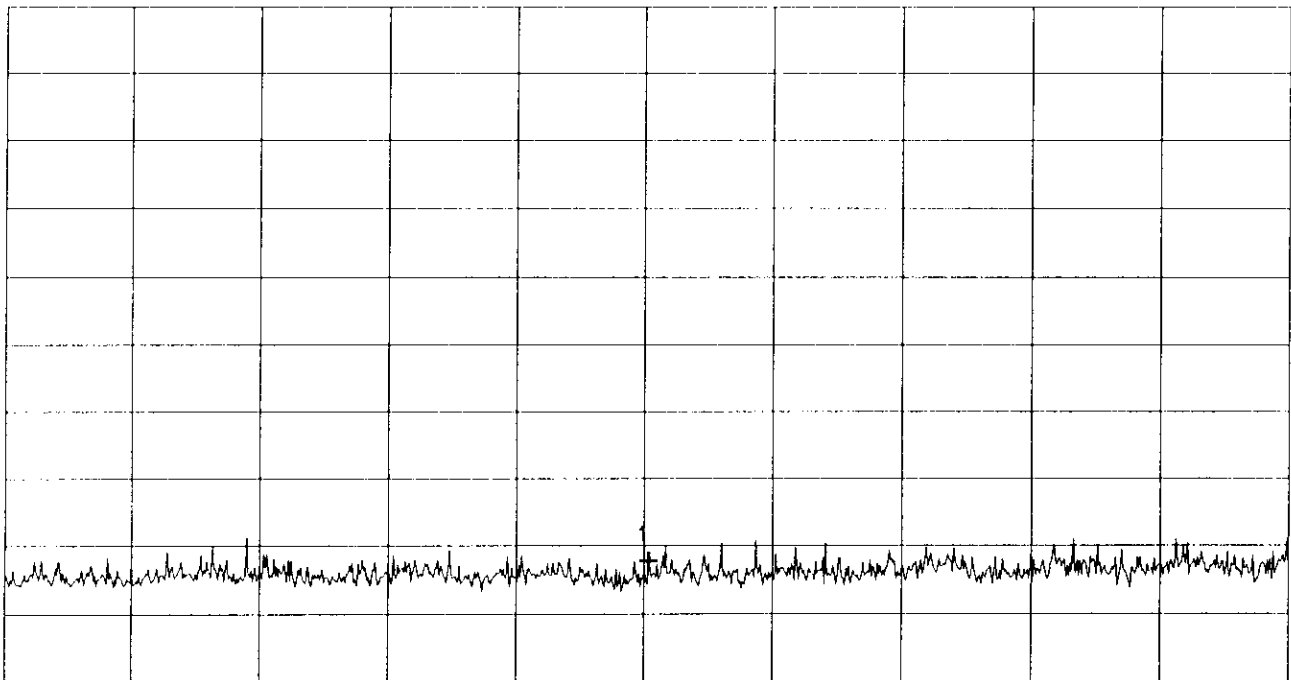
# Radiated Emissions Measurement acc. to FCC Rules

|                             |
|-----------------------------|
| Model:<br>SRIF Module       |
| Serial No.:<br>Sample No. 1 |
| Applicant:<br>Siemens AG    |
|                             |
|                             |
|                             |
|                             |

|  |
|--|
| Mode:<br>Supply voltage 5 V DC               |
| TX mode, channel 27 (2466.5 MHz)             |
| Test distance 3 m<br>Horizontal polarization |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
|      | -----          |                 |
| Nr.1 | 652.333333 MHz | 5.87 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

|                            |
|----------------------------|
| Tested by:<br>Johann Roidt |
| Date:                      |

|              |
|--------------|
| Project-No.: |
|              |

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

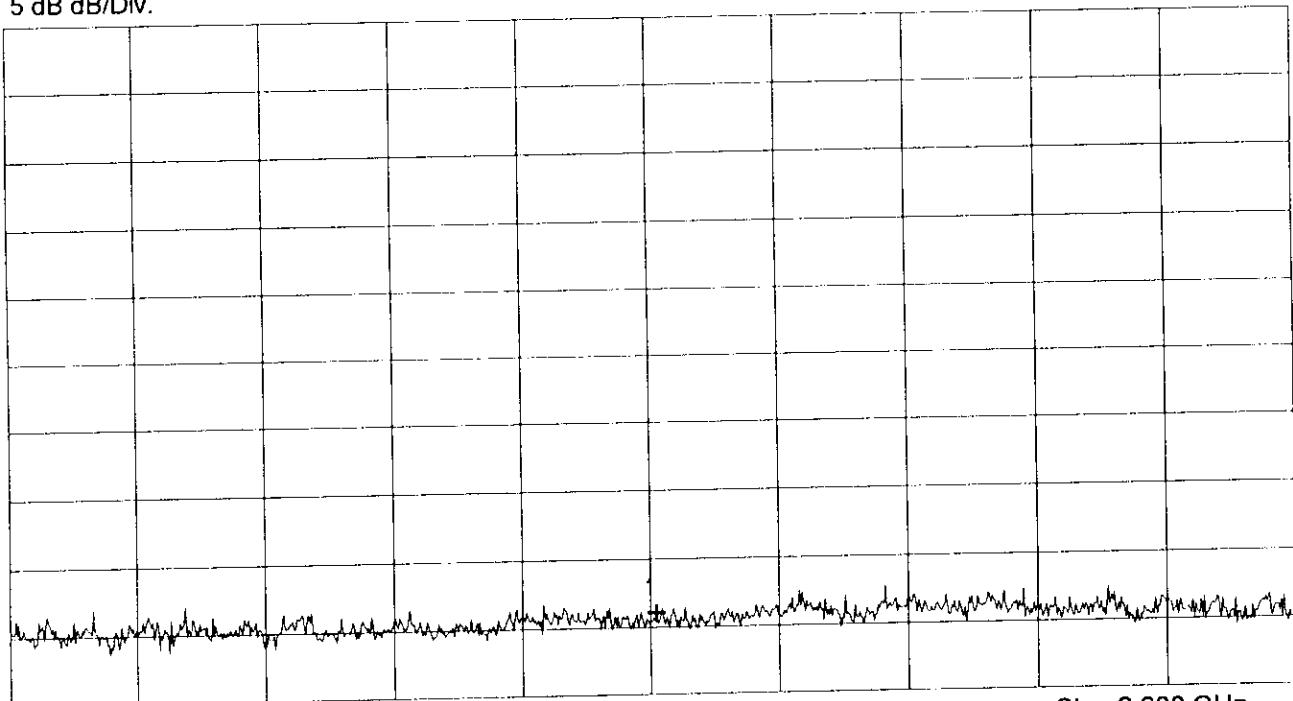
Mode:  
Supply voltage 5 V DC

TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 1.807111 GHz | 18.01 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:



# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

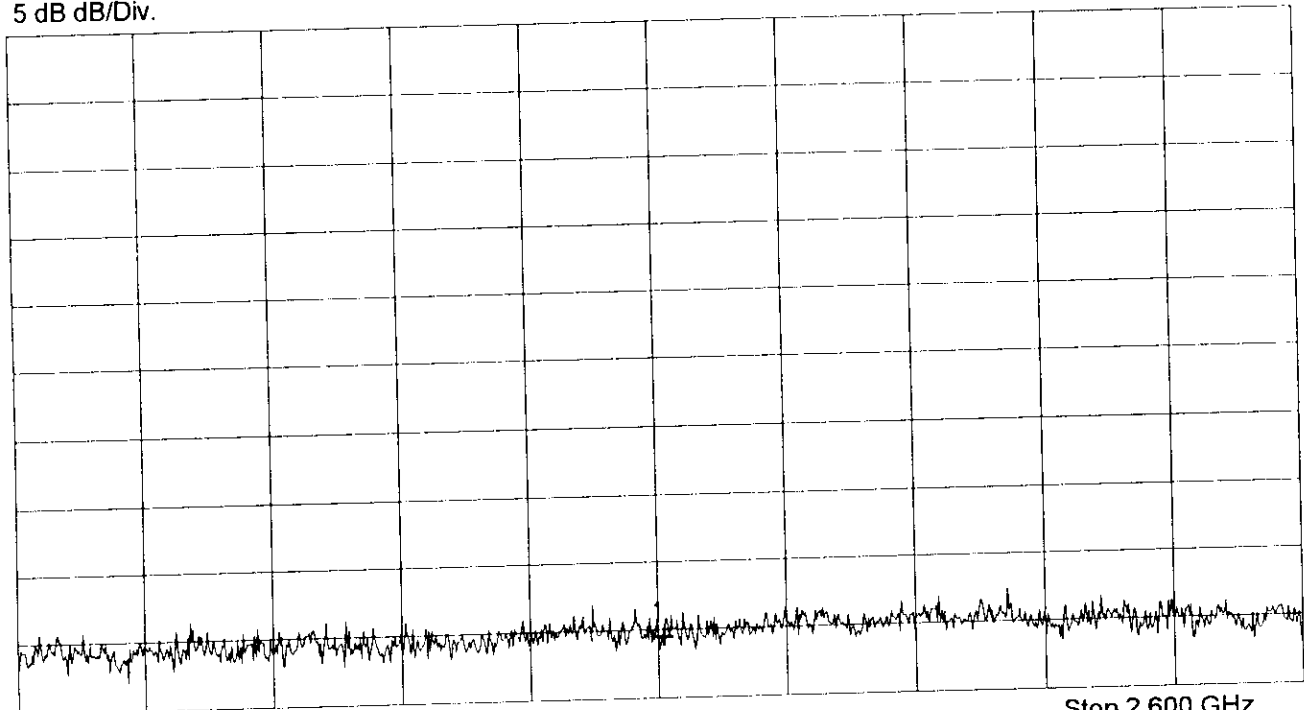
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Notch Filter on TX Frequency

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 1.807111 GHz | 16.44 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

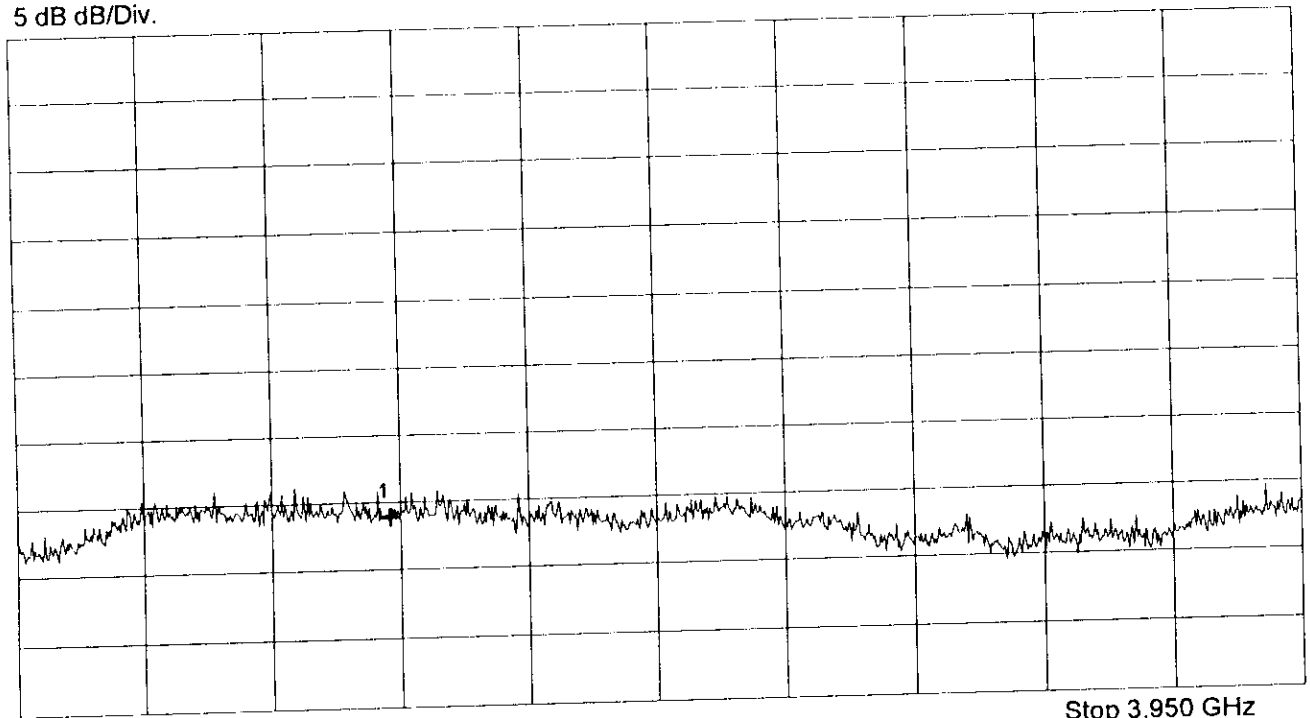
|                             |
|-----------------------------|
| Model:<br>SRIF Module       |
| Serial No.:<br>Sample No. 1 |
| Applicant:<br>Siemens AG    |
|                             |
|                             |
|                             |
|                             |

|  |
|--|
| Mode:<br>Supply voltage 5 V DC             |
| TX mode, Channel 27 (2466.5 MHz)           |
| Test distance 3 m<br>Vertical Polarization |
| Notch Filter on TX Frequency               |

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

|  |                       |                 |
|--|-----------------------|-----------------|
| **** Multi Marker ****                                       |                       |                 |
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br>2.994500 GHz | 5.34 dB $\mu$ V |

|                            |
|----------------------------|
| Tested by:<br>Johann Roidt |
| Date:                      |

|               |
|---------------|
| Project-No.:  |
| Page of pages |

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 27 (2466.5 MHz)

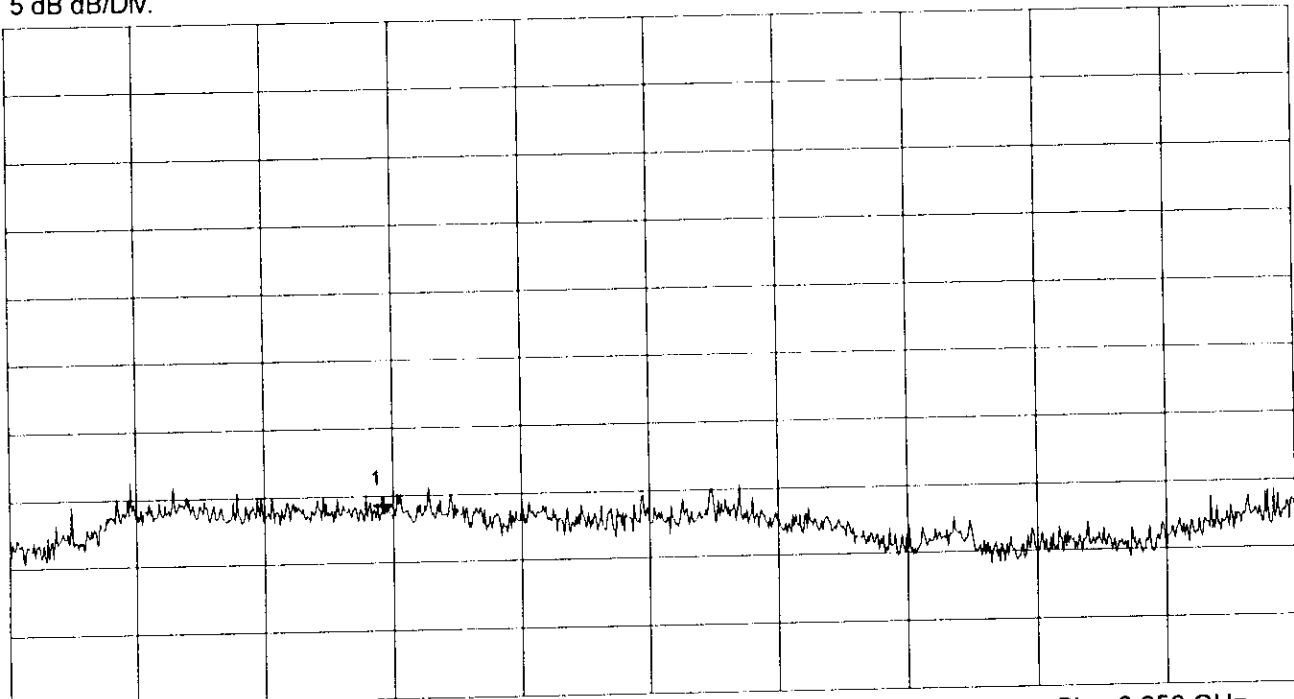
Test distance 3 m  
Horizontal Polarization

Notch Filter on TX Frequency

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 2.994500 GHz | 5.79 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

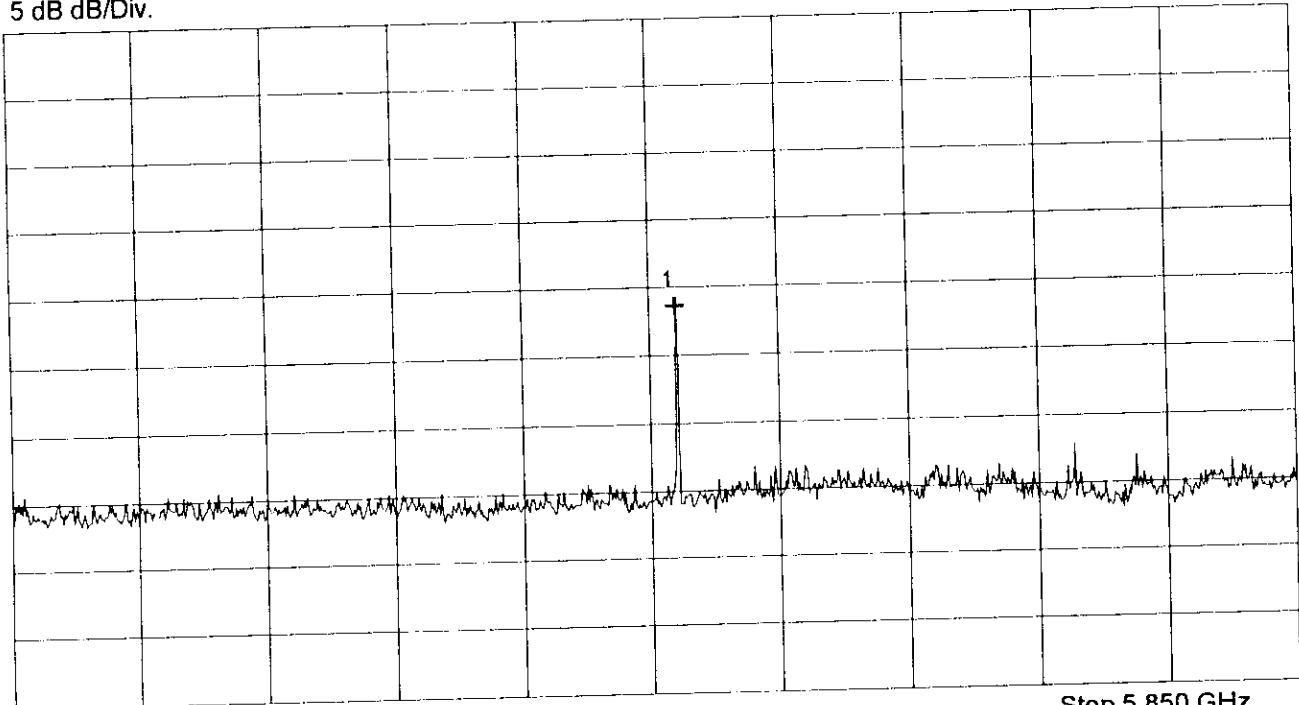
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 4.938000 GHz | 20.09 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

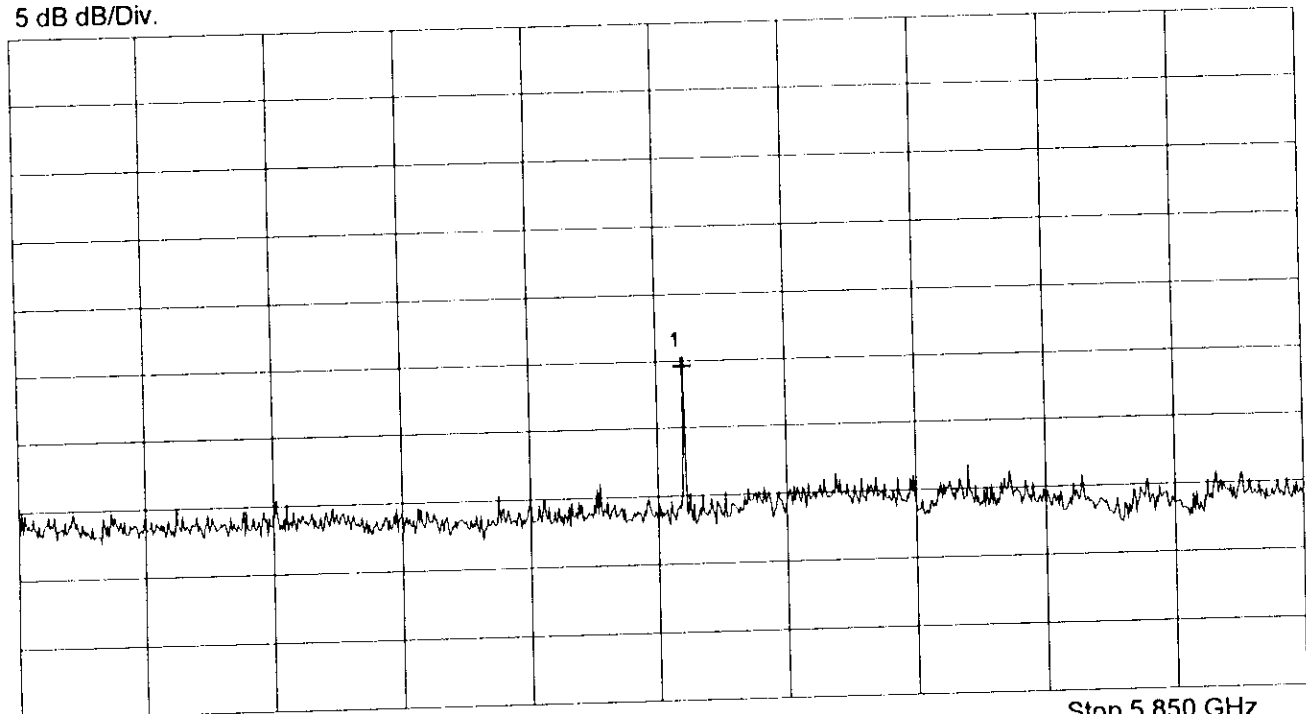
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

Nr.1  
Nr.2  
Nr.3  
Nr.4  
Nr.5  
Nr.6  
Nr.7  
Nr.8

4.938000 GHz

16.11 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

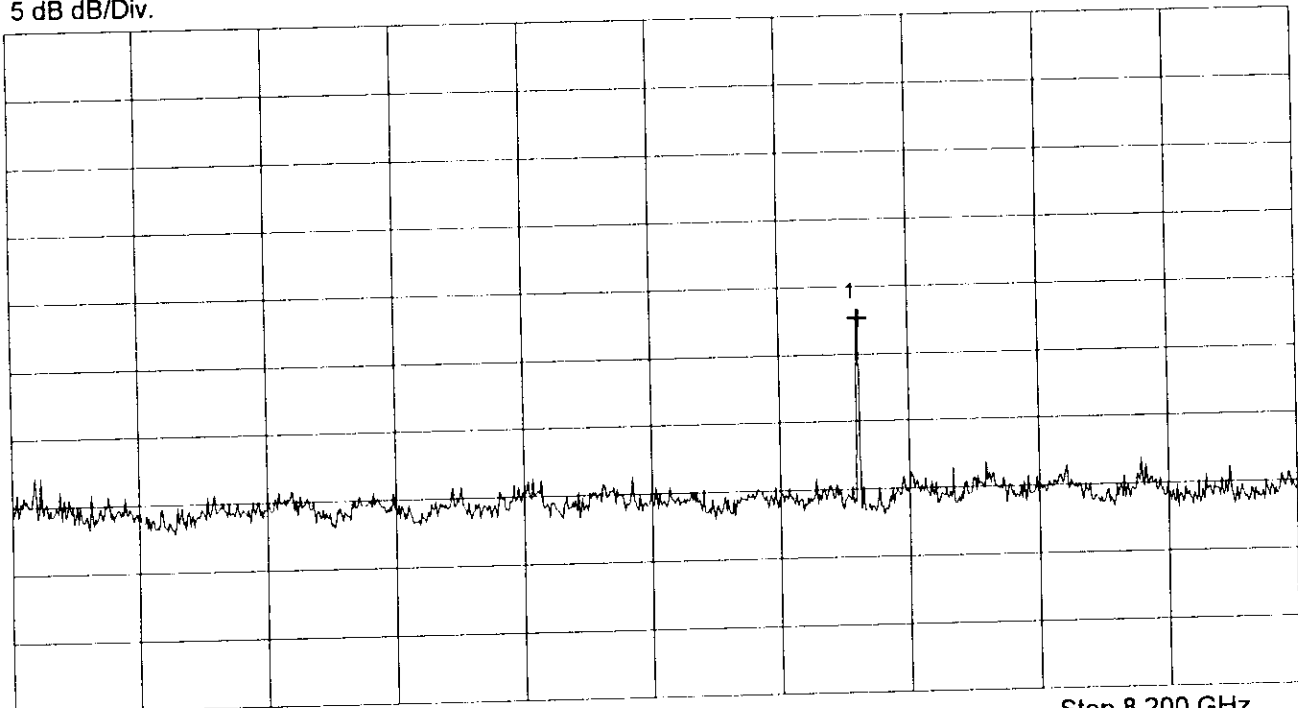
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 7.403611 GHz | 19.16 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

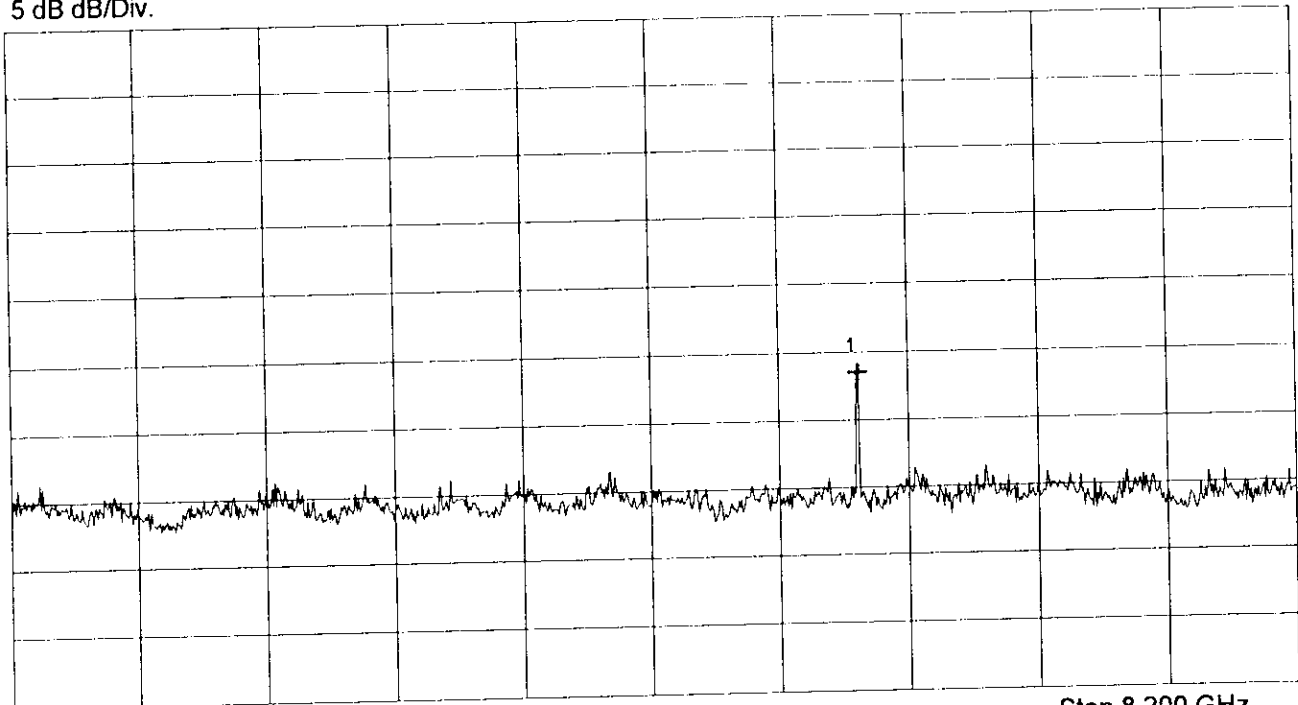
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      | 7.403611 GHz | 14.99 dB $\mu$ V |
|------|--------------|------------------|
| Nr.1 |              |                  |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

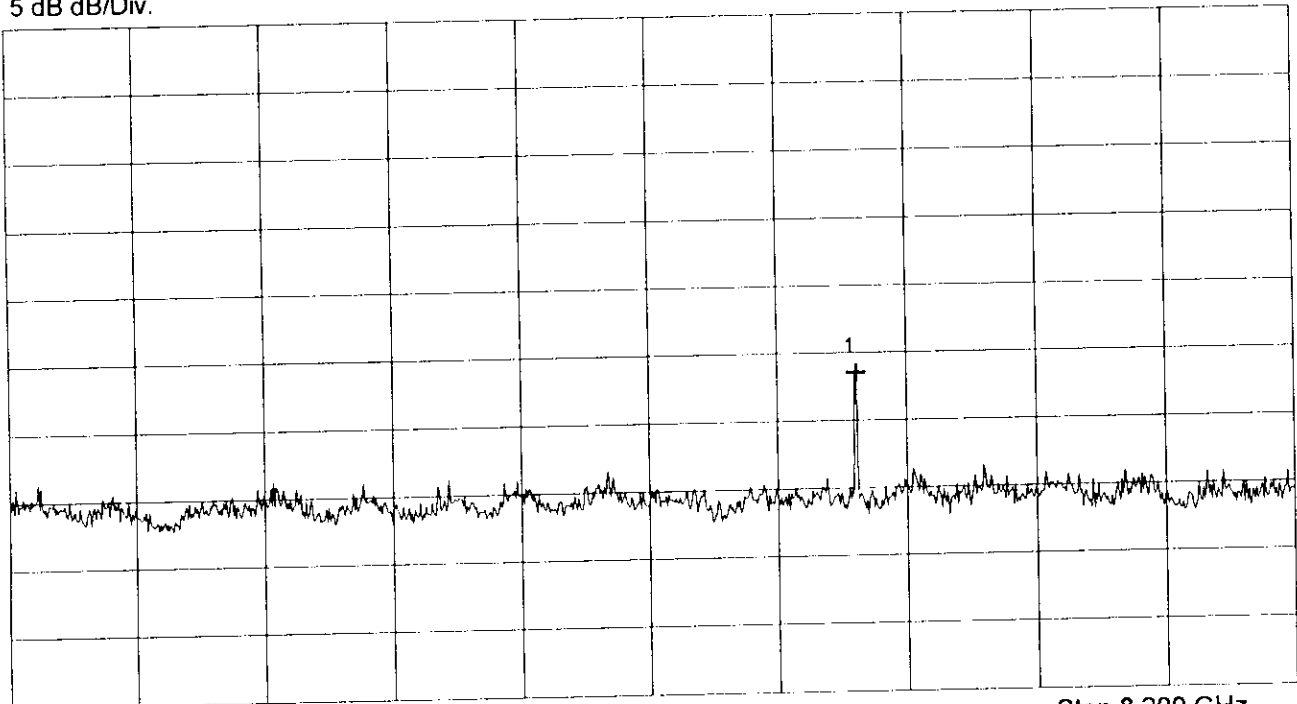
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Amplitude (dB $\mu$ V) |
|------|-----------------|------------------------|
| Nr.1 | 7.403611        | 14.99                  |
| Nr.2 |                 |                        |
| Nr.3 |                 |                        |
| Nr.4 |                 |                        |
| Nr.5 |                 |                        |
| Nr.6 |                 |                        |
| Nr.7 |                 |                        |
| Nr.8 |                 |                        |

Tested by:  
Johann Roidt

Project-No.:



# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

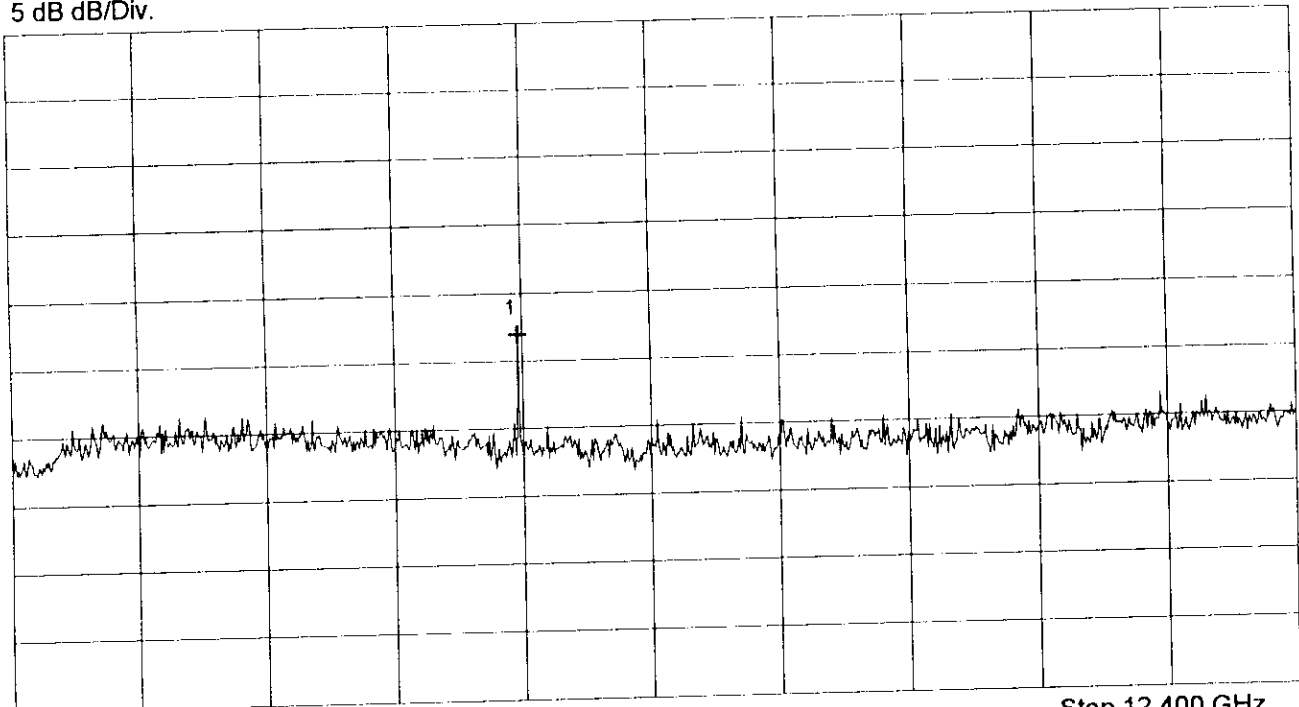
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

9.866000 GHz

13.95 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

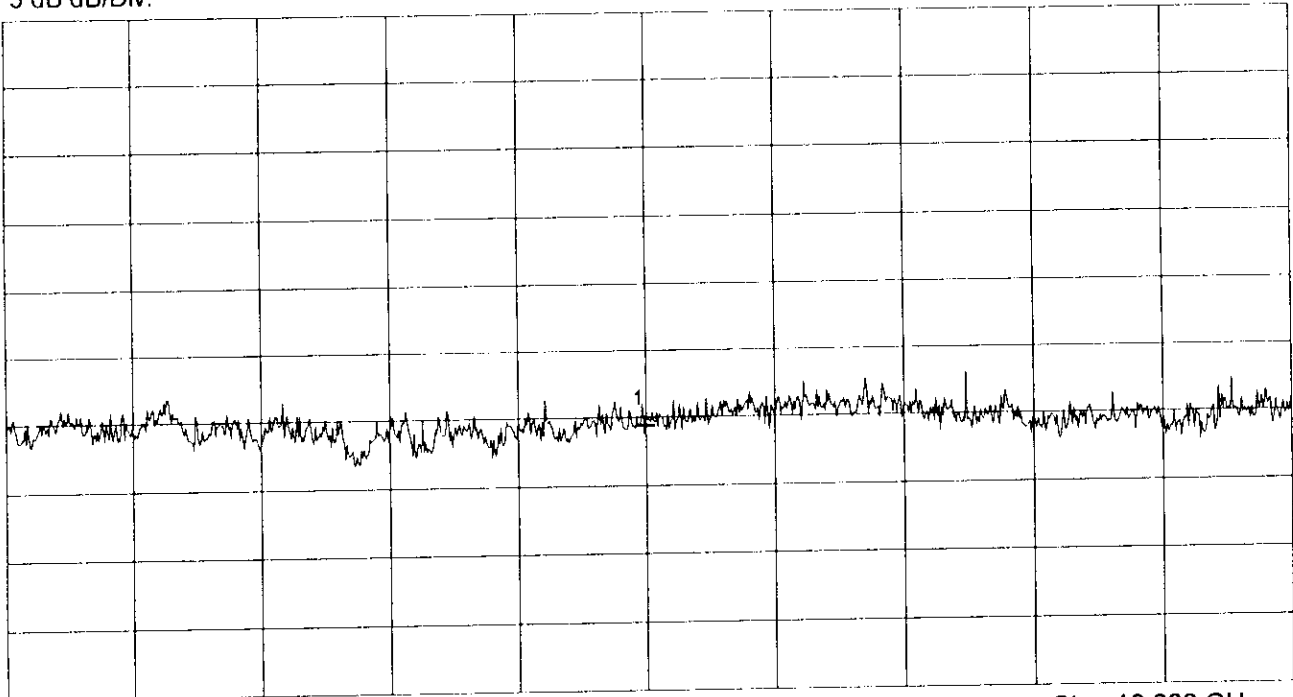
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 15.193778 GHz | 6.38 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

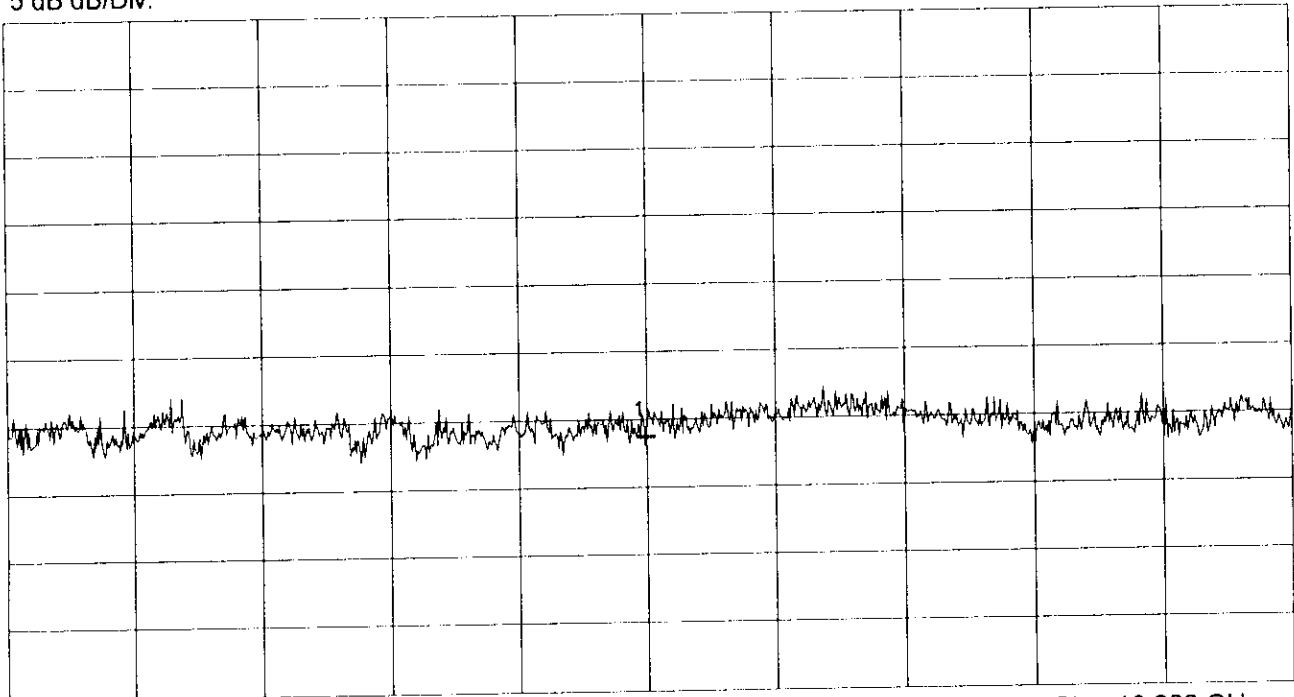
TX mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 15.193778 GHz | 5.72 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

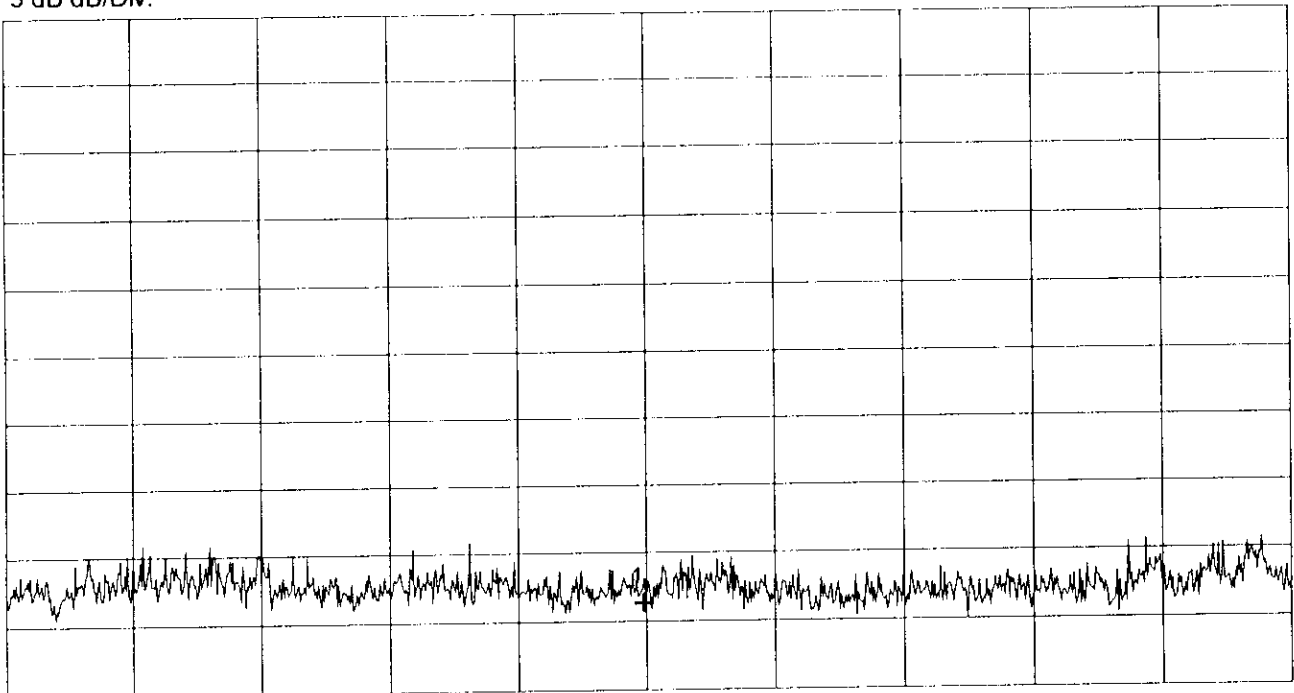
Mode:  
Supply voltage 5 V DC

TX mode, Channel 27 (2466.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref.Level 57 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
| Nr.1 | 21.484444 GHz | 13.28 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

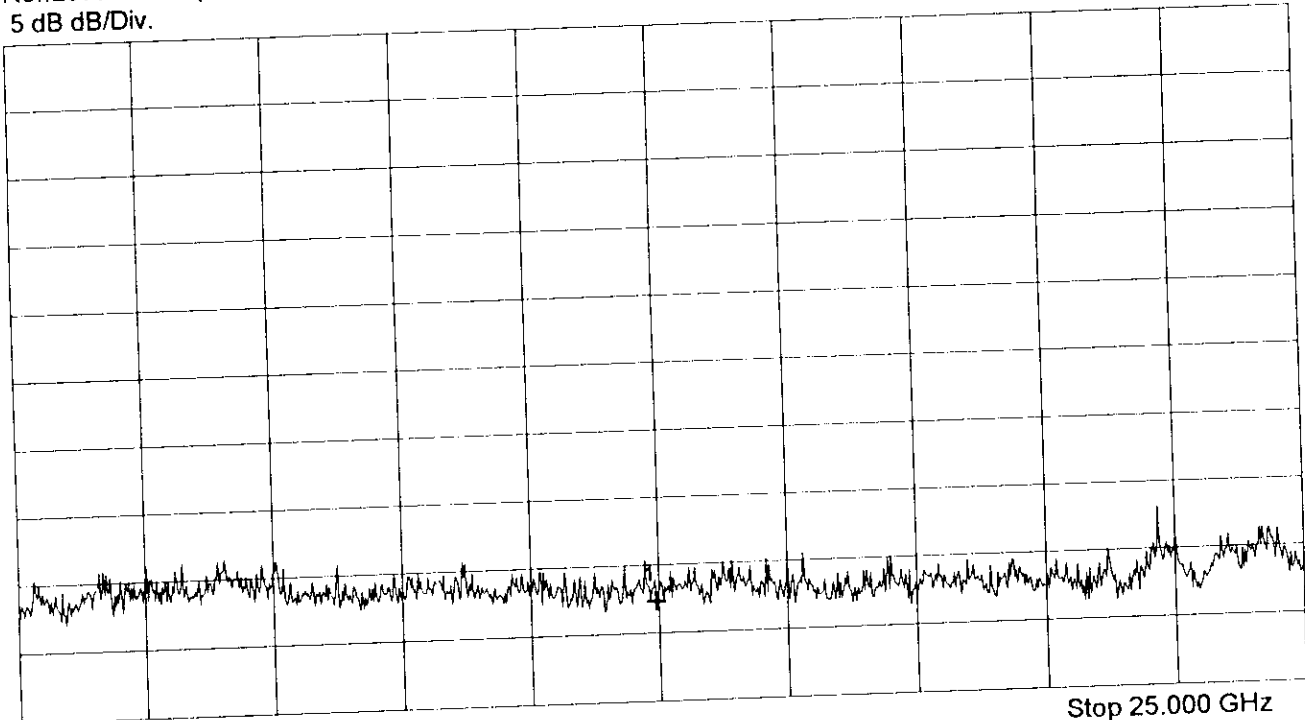
Mode:  
Supply voltage 5 V DC

TX mode, Channel 27 (2466.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref. Level 57 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
| Nr.1 | 21.484444 GHz | 14.31 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emissions Measurements according to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

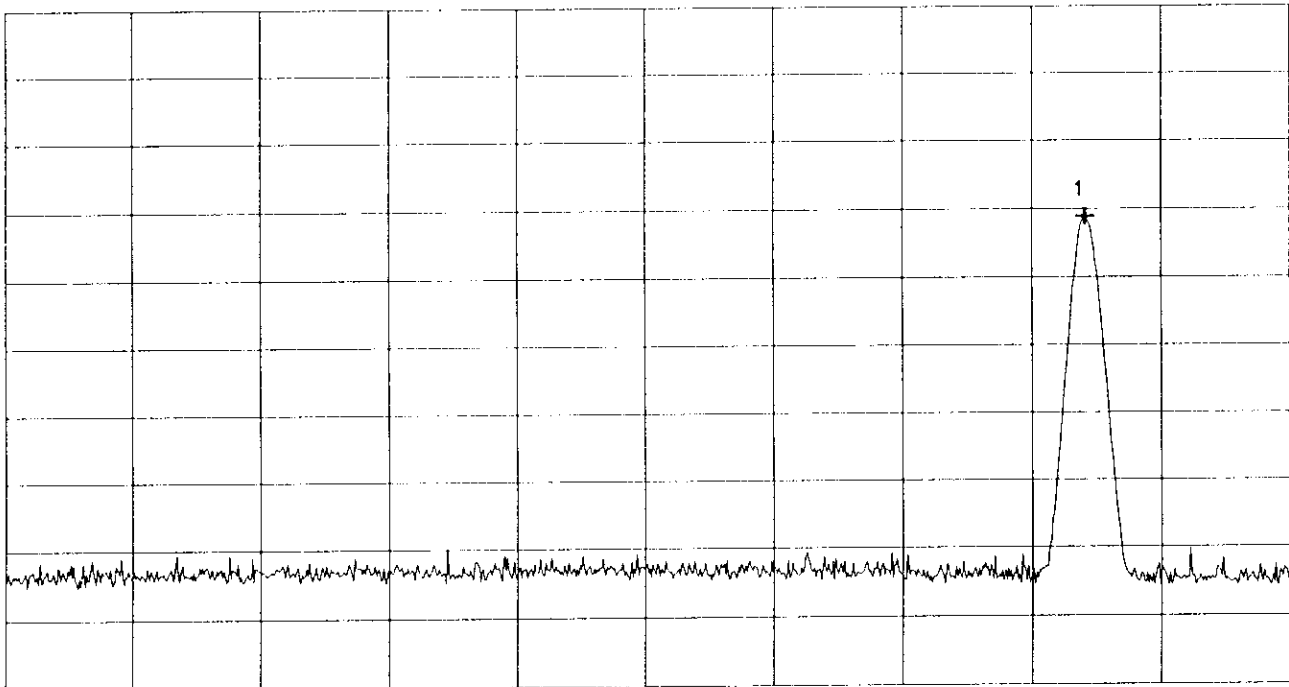
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Horizontal Polarization, Test distance 3 m

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.467289 GHz | 61.41 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:

Project-No.:

# Radiated Emissions Measurements according to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

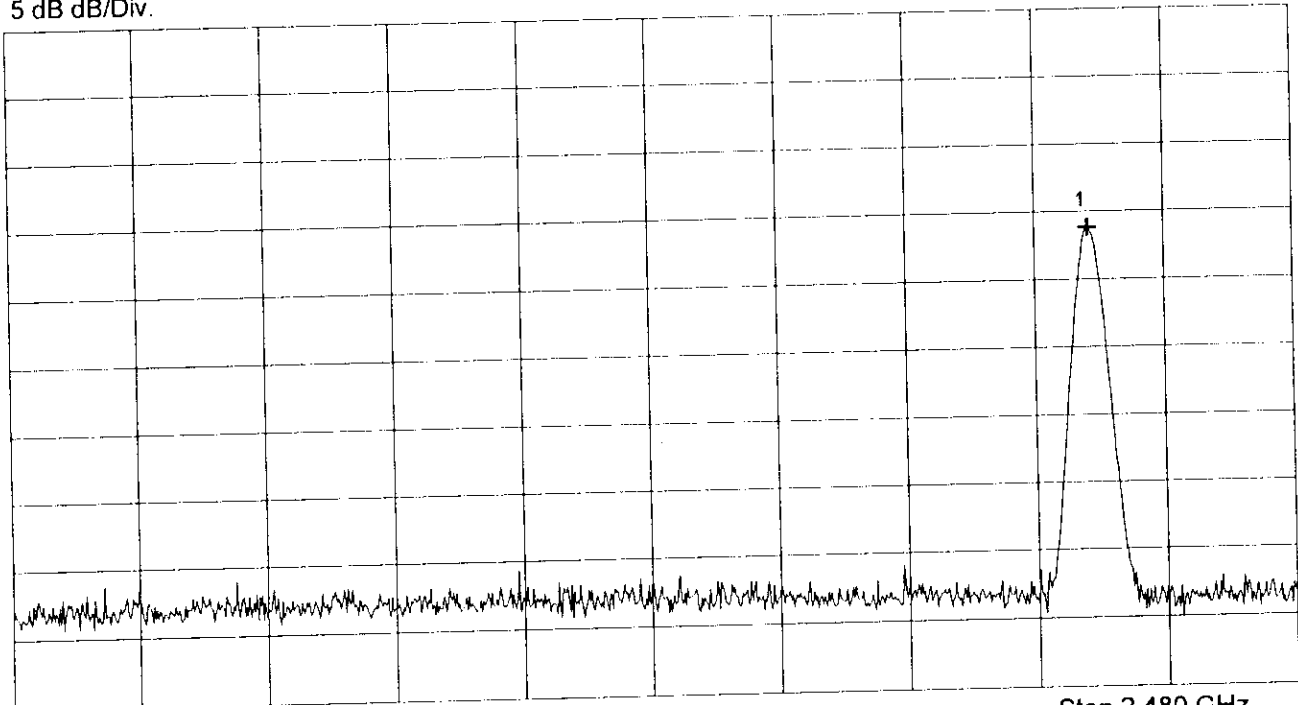
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Vertical Polarization, Test distance 3 m

Ref.Level 77 dB $\mu$ V  
5 dB dB/Div.

ATT 10 dB



Start 2.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.480 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

2.467289 GHz

60.82 dB $\mu$ V

Tested by:

Project-No.:

Date:

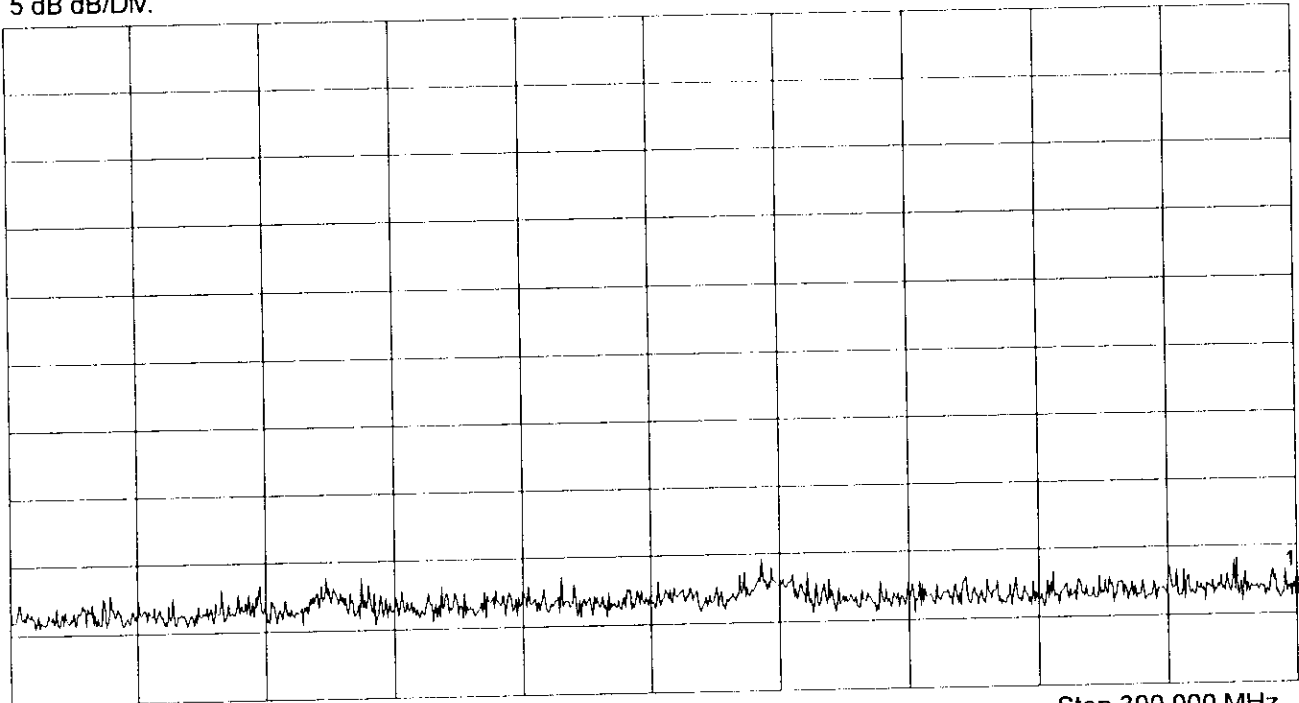
Page of pages

# Radiated Emission Measurement acc. to FCC Rules

|                              |  |
|------------------------------|--|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply Voltage 5 V DC               |
| Serial No.:<br>Sample No. 1  | TX Mode, Channel 33 (2481.5 MHz)             |
| Applicant:<br>Siemens AG     | Test distance 3 m<br>Horizontal Polarization |
|                              |  |
|                              |  |
|                              |  |

Ref.Level 47 dB $\mu$ V  
 5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
 RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
 SWP 100 ms

|                        |                |                 |
|------------------------|----------------|-----------------|
| **** Multi Marker **** |                |                 |
| Nr.1                   | 300.000000 MHz | 3.92 dB $\mu$ V |
| Nr.2                   |                |                 |
| Nr.3                   |                |                 |
| Nr.4                   |                |                 |
| Nr.5                   |                |                 |
| Nr.6                   |                |                 |
| Nr.7                   |                |                 |
| Nr.8                   |                |                 |

Tested by:  
**Johann Roidt**

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

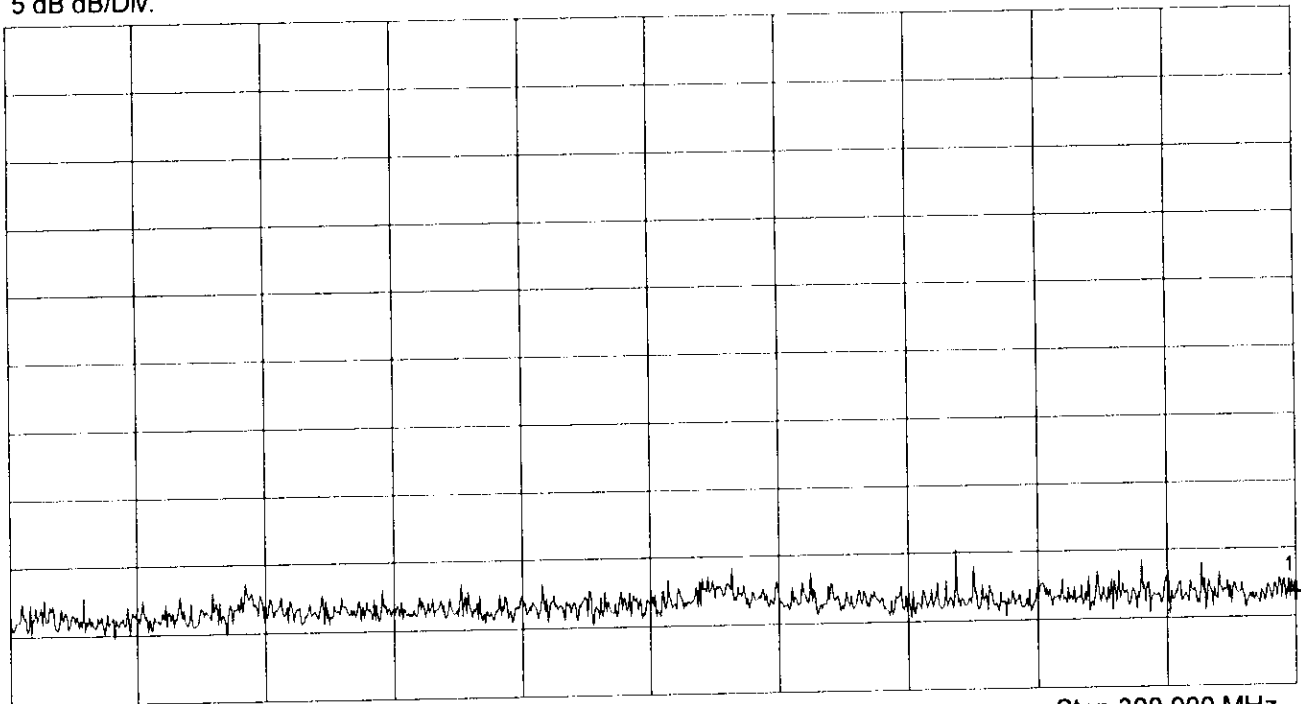
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 300.000000 MHz | 3.73 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

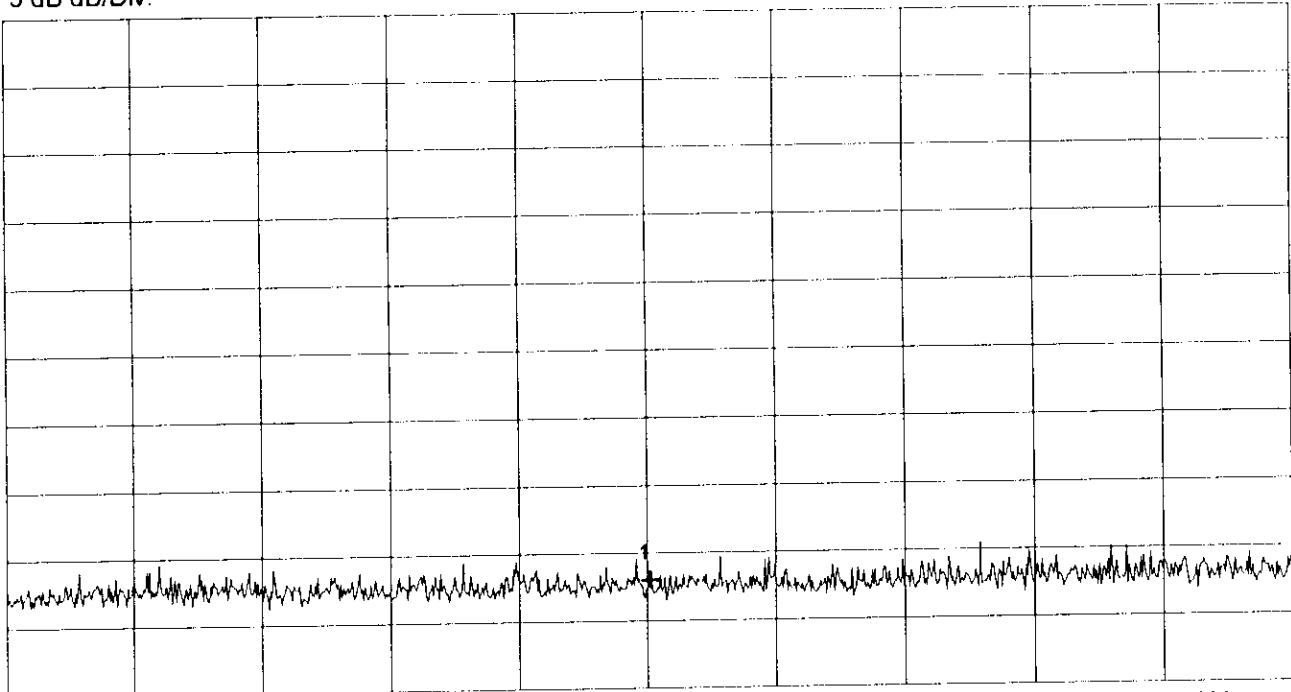
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
|      | -----          |                 |
| Nr.1 | 651.555556 MHz | 5.00 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

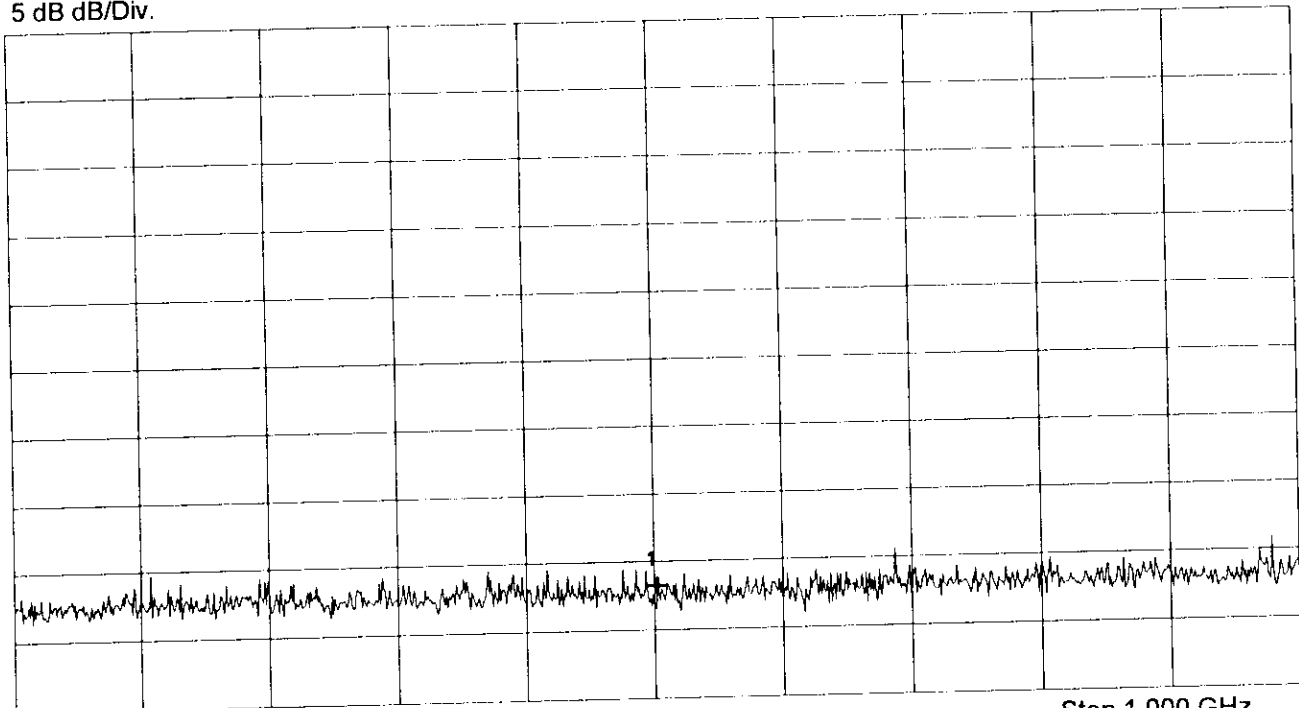
Mode:  
Supply Voltage 5 V DC

TX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 651.555556 MHz | 5.16 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

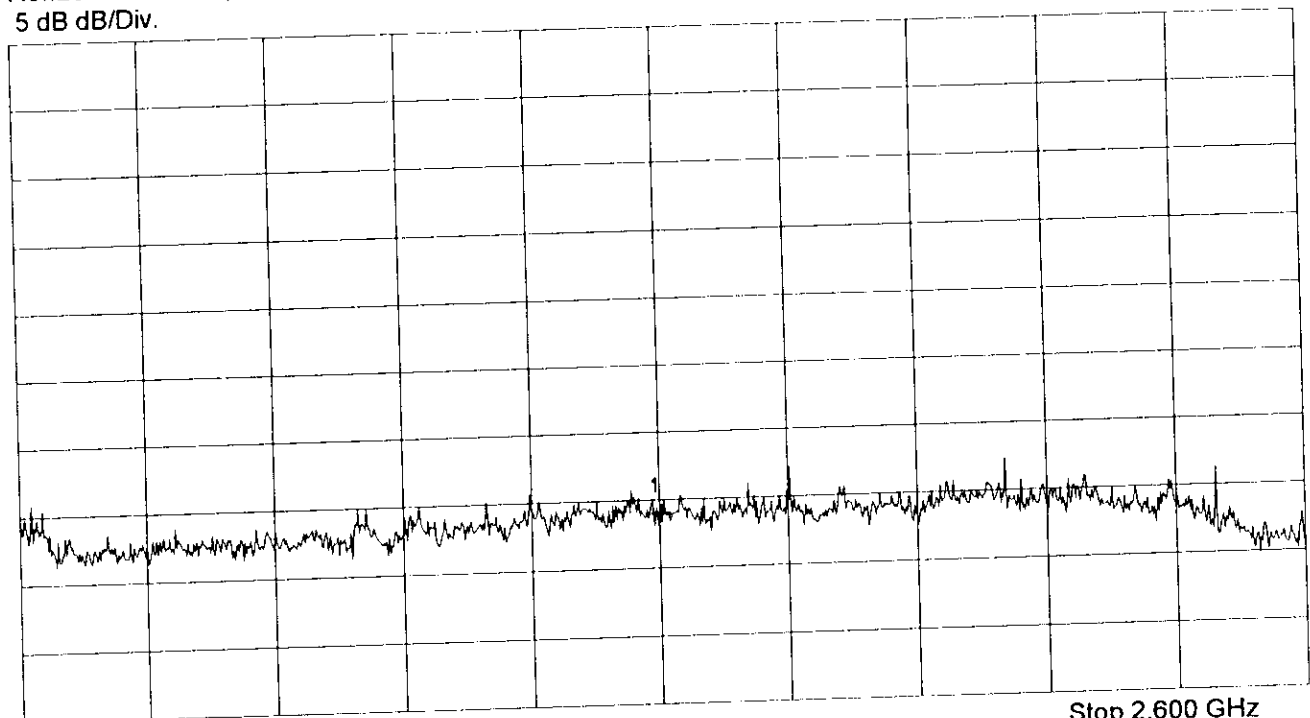
Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br>Sample No. 1 | TX mode, Channel 33 (2481.5 MHz)           |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Vertical Polarization |
|                             |  |
|                             |  |
|                             | Notch Filter on TX frequency               |

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.      ATT 0 dB      Ref. Offset -30.5 dB



Start 1.000 GHz      Stop 2.600 GHz  
RBW 1 MHz      VBW 1 MHz      SWP 20 ms

|                        |              |                 |
|------------------------|--------------|-----------------|
| **** Multi Marker **** |              |                 |
| Nr.1                   | 1.801778 GHz | 5.50 dB $\mu$ V |
| Nr.2                   |              |                 |
| Nr.3                   |              |                 |
| Nr.4                   |              |                 |
| Nr.5                   |              |                 |
| Nr.6                   |              |                 |
| Nr.7                   |              |                 |
| Nr.8                   |              |                 |

Tested by:  
Johann Roitd

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 33 (2481.5 MHz)

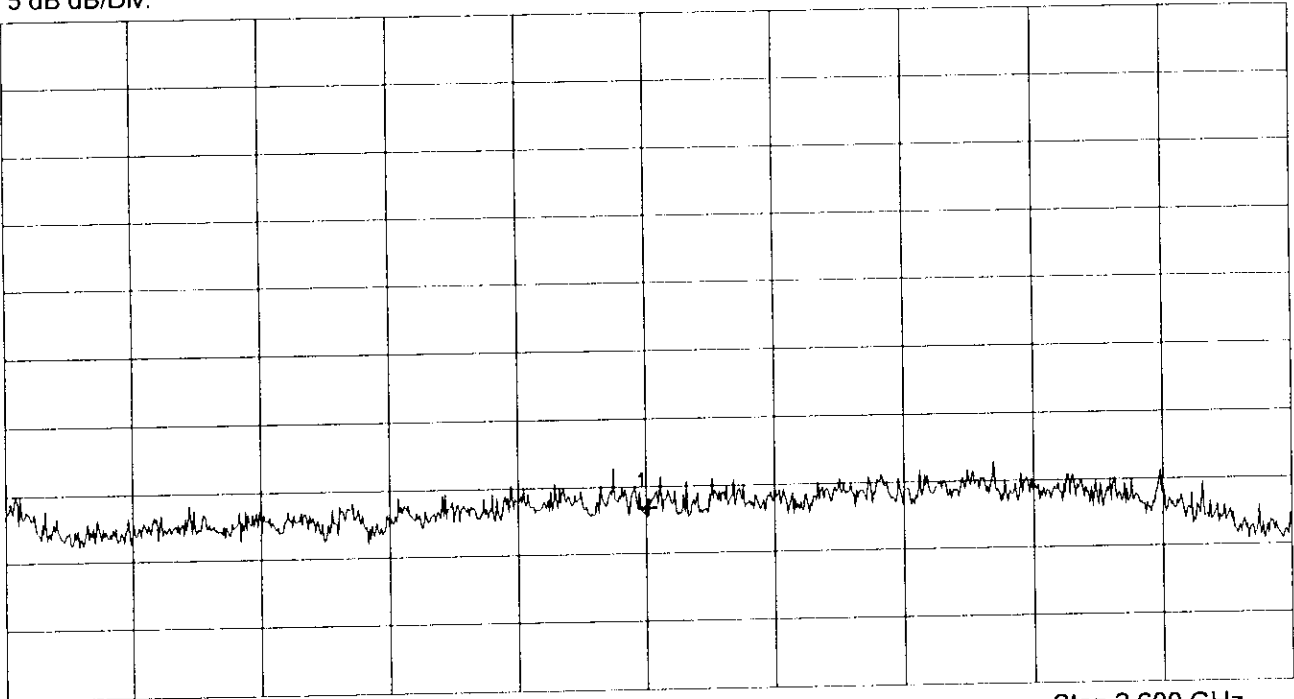
Test distance 3 m  
Horizontal Polarization

Notch Filter on TX frequency

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

1.801778 GHz

4.93 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 33 (2481.5 MHz)

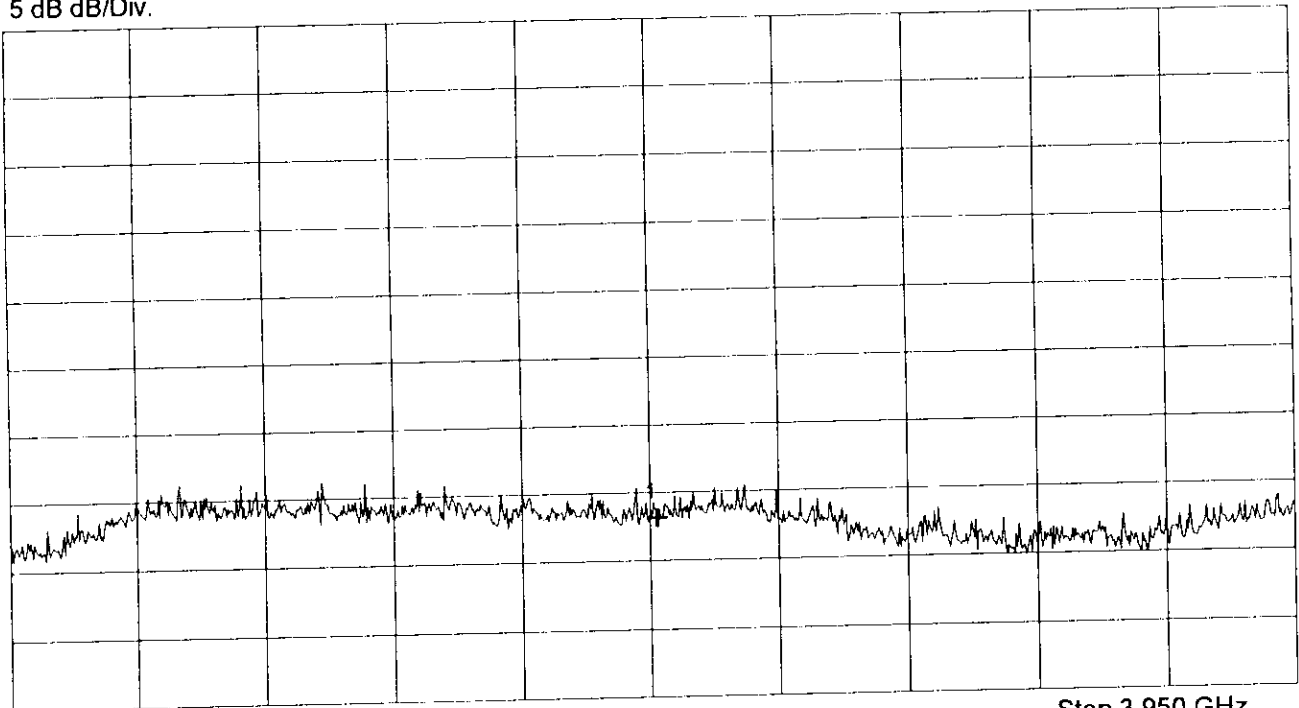
Test distance 3 m  
Vertical Polarization

Notch Filter on TX frequency

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.282500 GHz | 4.57 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 33 (2481.5 MHz)

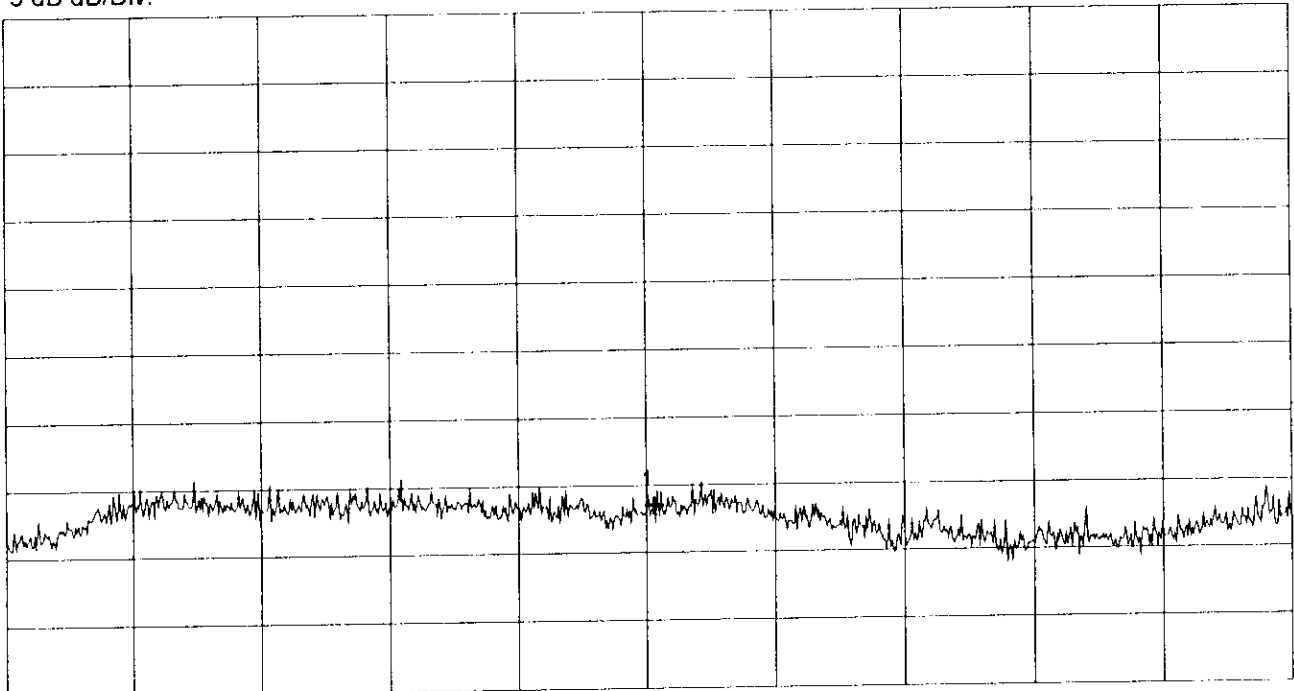
Test distance 3 m  
Horizontal Polarization

Notch Filter on TX frequency

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.282500 GHz | 4.99 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

TX mode, Channel 33 (2481.5 MHz)

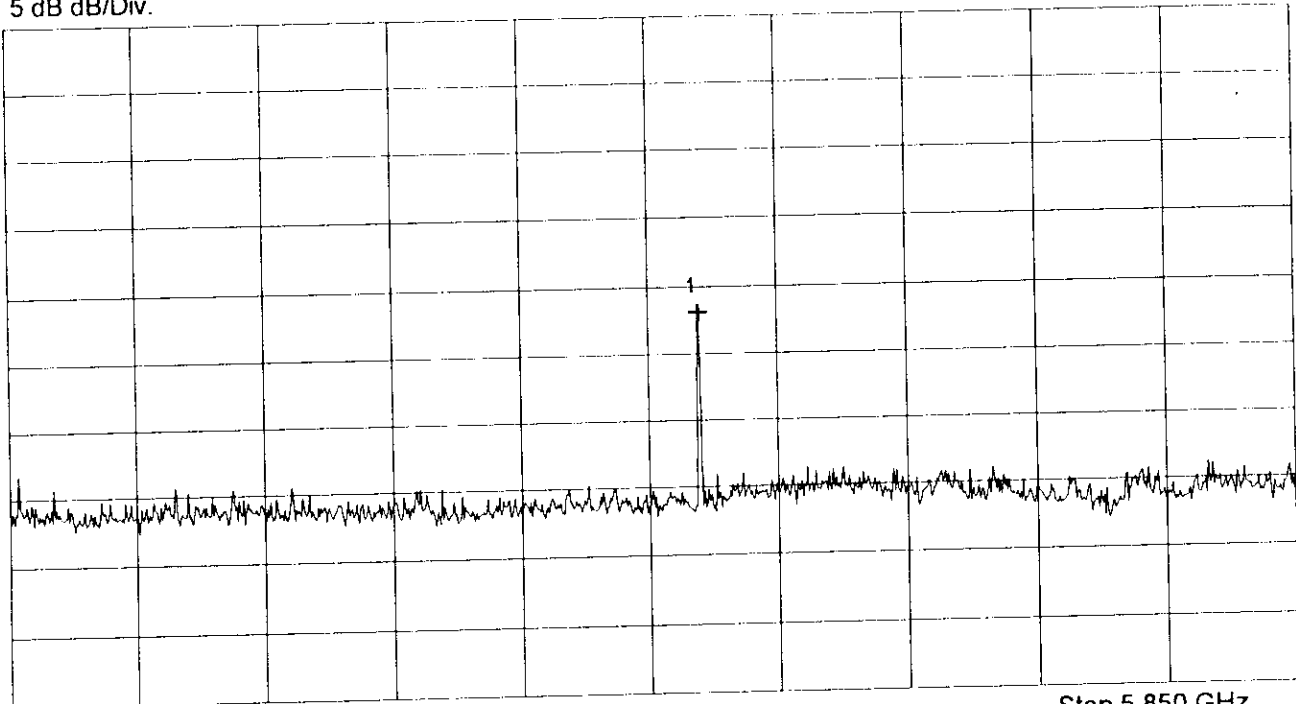
Test distance 3 m  
Vertical Polarization

Notch Filter on TX frequency

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 4.973889 GHz | 19.56 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:



# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

---

Serial No.:  
Sample No. 1

---

Applicant:  
Siemens AG

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Mode:  
Supply voltage 5 V DC

TX mode, Channel 33 (2481.5 MHz)

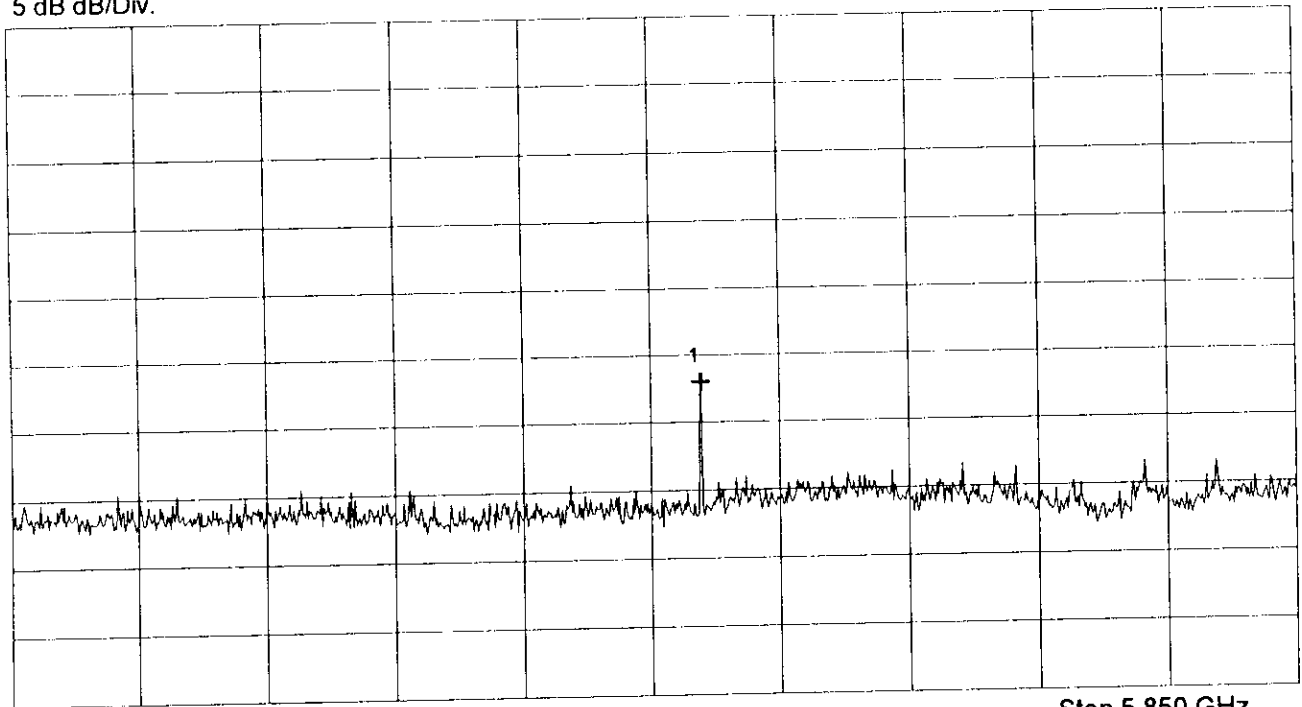
Test distance 3 m  
Horizontal Polarization

Notch Filter on TX frequency

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Level (dB $\mu$ V) |
|------|-----------------|--------------------|
| Nr.1 | 4.973889        | 14.47              |
| Nr.2 |                 |                    |
| Nr.3 |                 |                    |
| Nr.4 |                 |                    |
| Nr.5 |                 |                    |
| Nr.6 |                 |                    |
| Nr.7 |                 |                    |
| Nr.8 |                 |                    |

Tested by:  
Johann Roidt

Project-No.:

Date:

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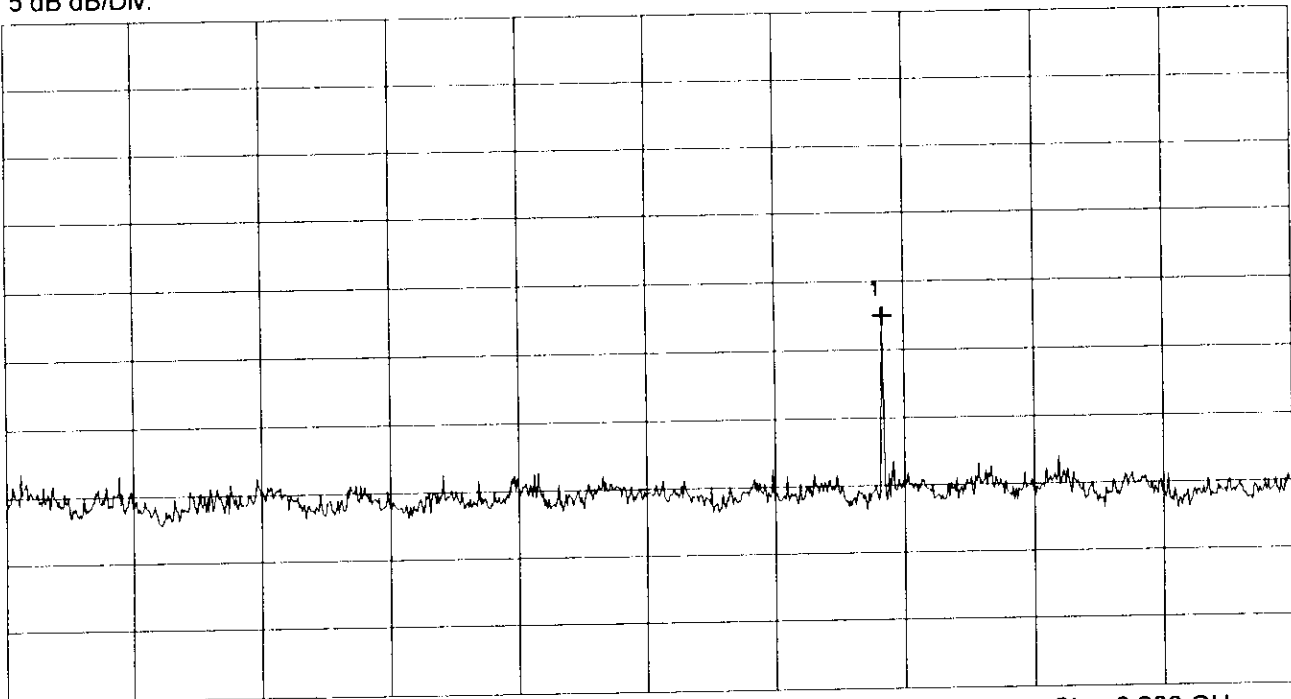
# Radiated Emissions Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br><b>Sample No. 1</b> | TX mode, Channel 33 (2481.5 MHz)           |
| Applicant:<br><b>Siemens AG</b>    | Test distance 3 m<br>Vertical Polarization |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
|      | -----        |                  |
| Nr.1 | 7.455833 GHz | 18.96 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

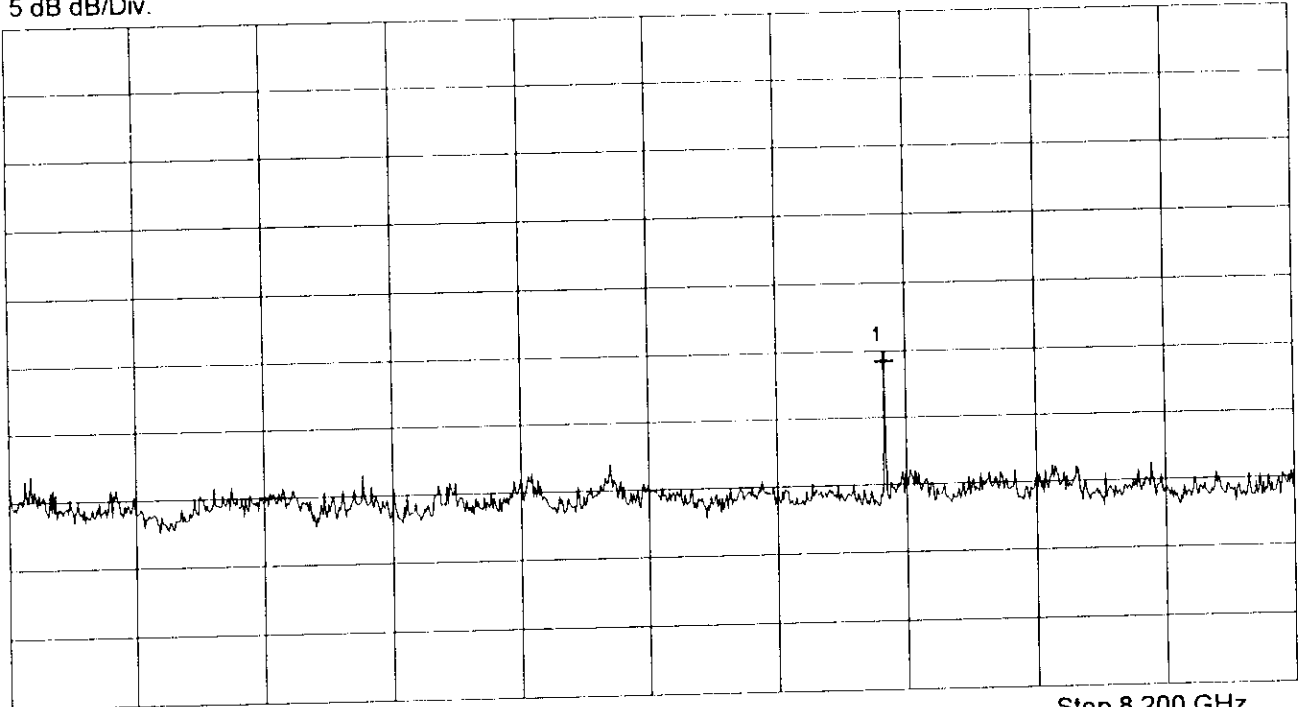
TX mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 41.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Level (dB $\mu$ V) |
|------|-----------------|--------------------|
| Nr.1 | 7.455833 GHz    | 15.72 dB $\mu$ V   |
| Nr.2 |                 |                    |
| Nr.3 |                 |                    |
| Nr.4 |                 |                    |
| Nr.5 |                 |                    |
| Nr.6 |                 |                    |
| Nr.7 |                 |                    |
| Nr.8 |                 |                    |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

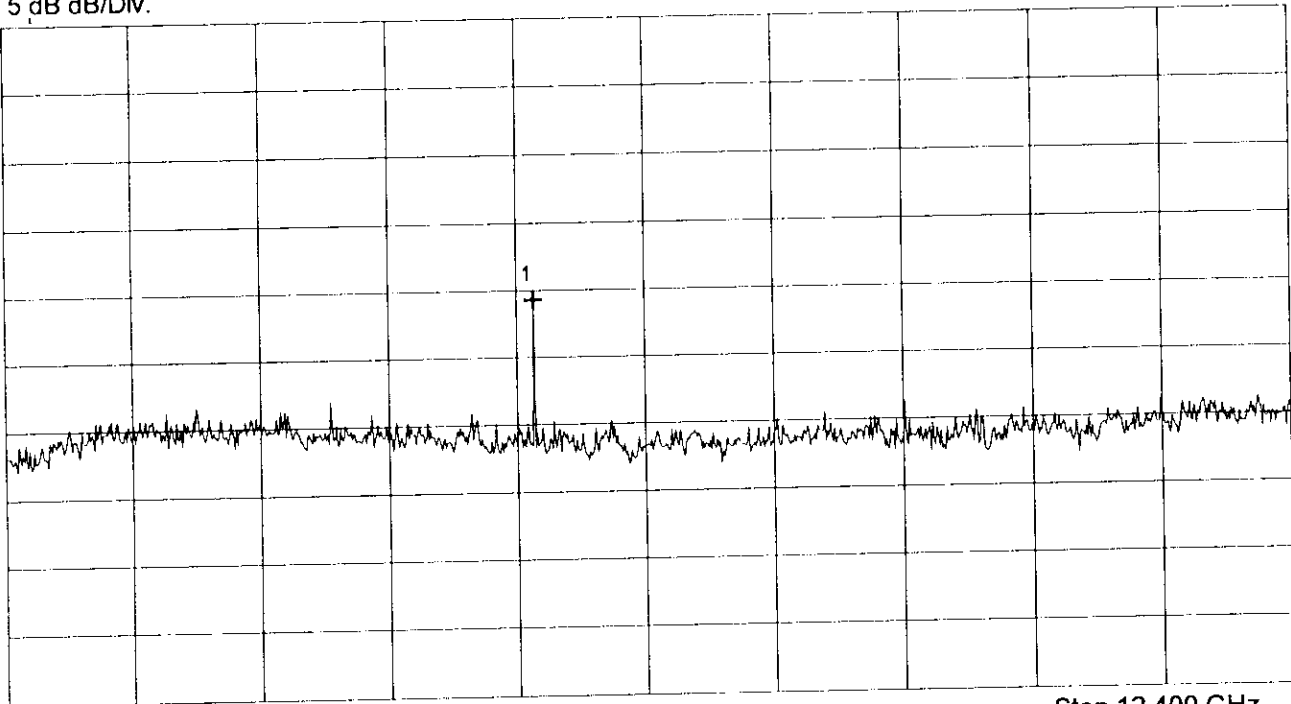
TX mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref. Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Level (dB $\mu$ V) |
|------|-----------------|--------------------|
| Nr.1 | 9.936000        | 16.28              |
| Nr.2 |                 |                    |
| Nr.3 |                 |                    |
| Nr.4 |                 |                    |
| Nr.5 |                 |                    |
| Nr.6 |                 |                    |
| Nr.7 |                 |                    |
| Nr.8 |                 |                    |

Tested by:  
Johann Roitd

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

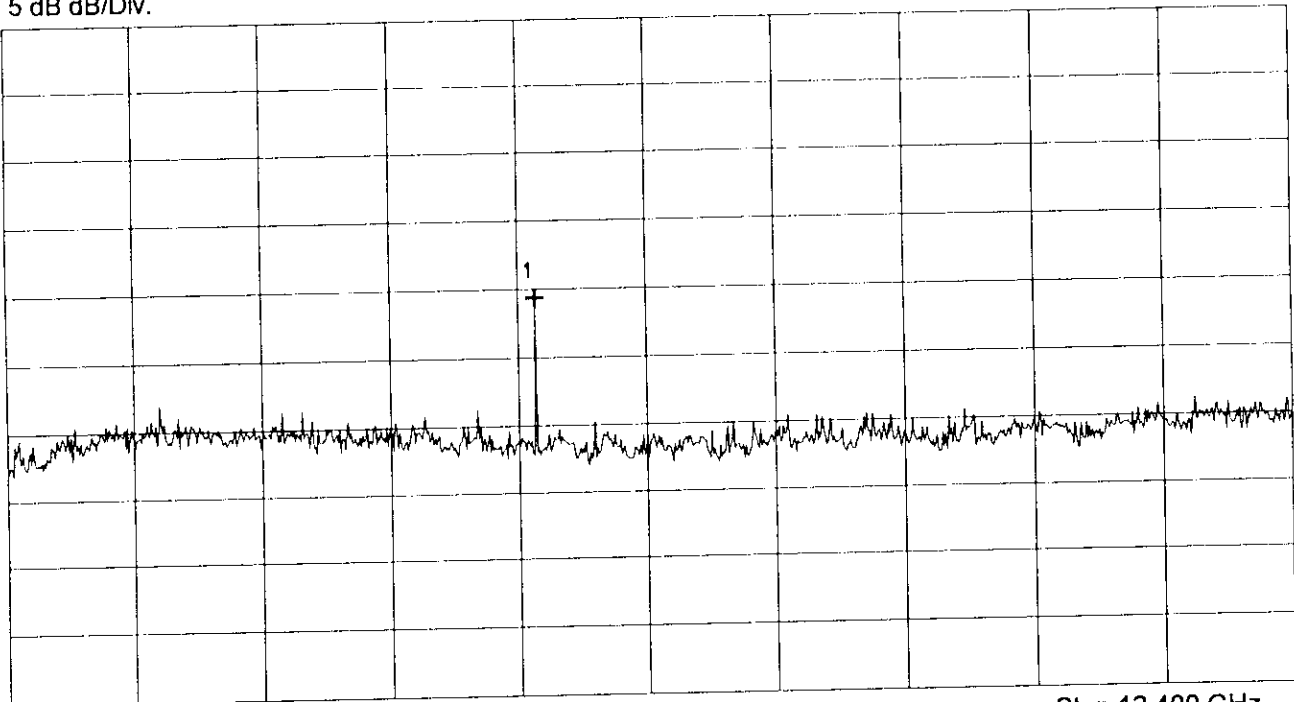
TX mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 9.936000 GHz | 16.37 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

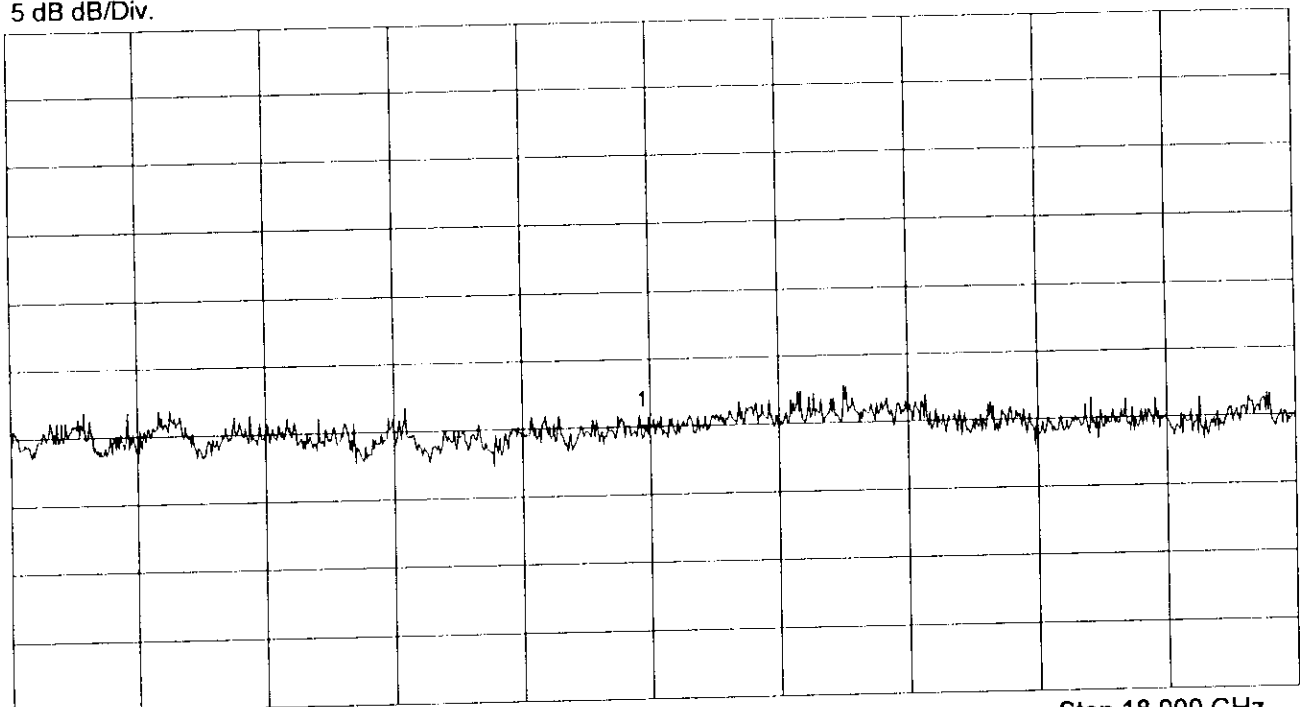
TX mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Power (dB $\mu$ V) |
|------|-----------------|--------------------|
| Nr.1 | 15.19378        | 7.00               |
| Nr.2 |                 |                    |
| Nr.3 |                 |                    |
| Nr.4 |                 |                    |
| Nr.5 |                 |                    |
| Nr.6 |                 |                    |
| Nr.7 |                 |                    |
| Nr.8 |                 |                    |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

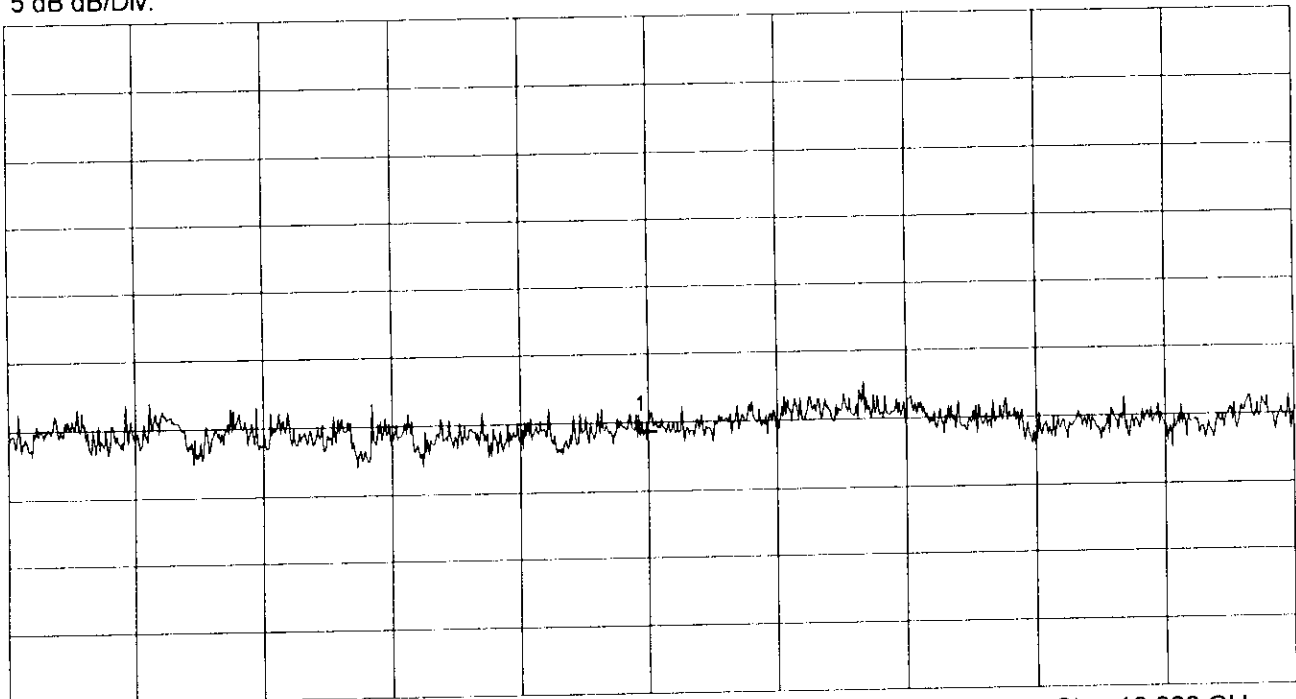
TX mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 37 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 15.193778 GHz | 6.33 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

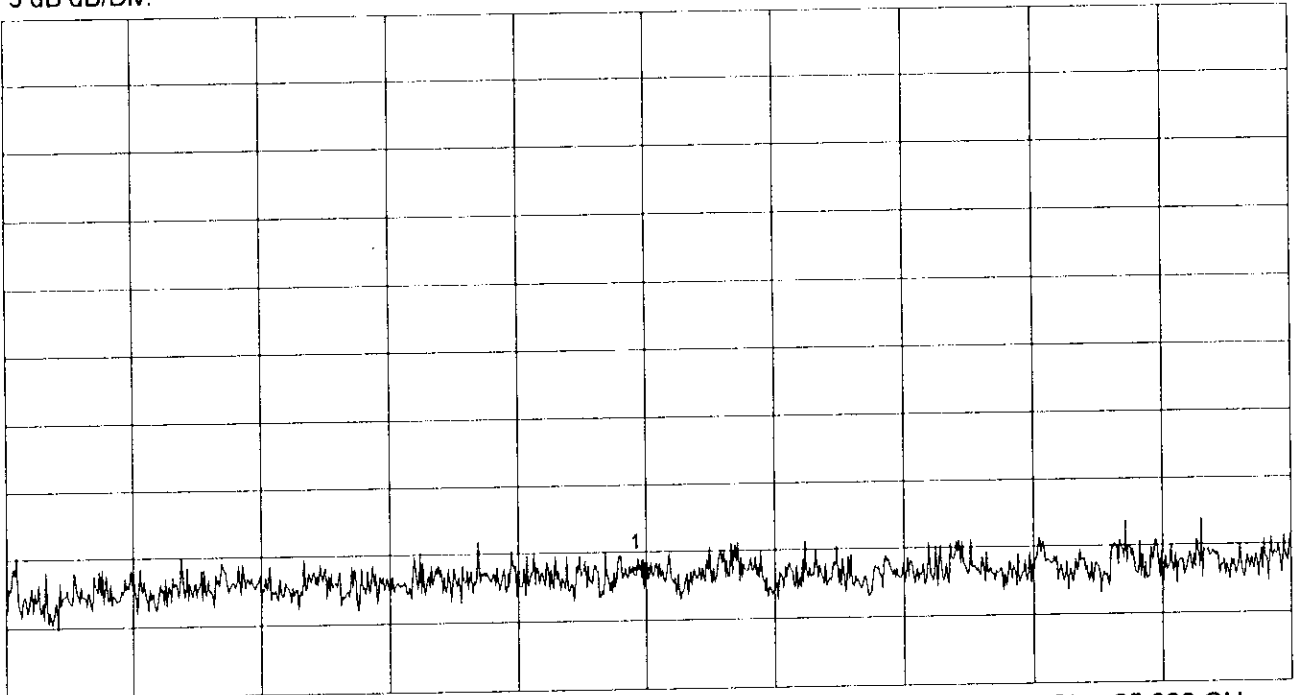
Mode:  
Supply voltage 5 V DC

TX mode, Channel 33 (2481.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 21.476667 GHz | 5.72 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

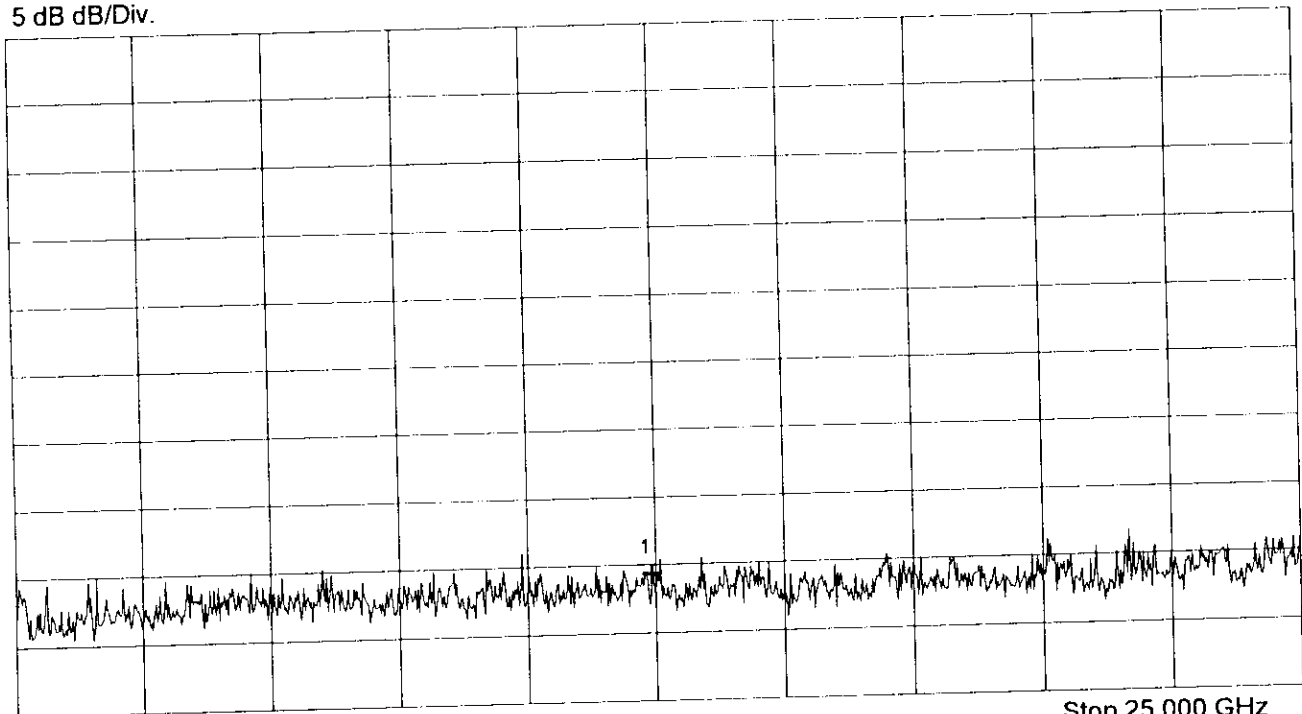


# Radiated Emissions Measurement acc. to FCC Rules

|                              |  |
|------------------------------|--|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br>Sample No. 1  | TX mode, Channel 33 (2481.5 MHz)           |
| Applicant:<br>Siemens AG     | Test distance 1 m<br>Vertical Polarization |
|                              |  |
|                              |  |
|                              |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 100 kHz

VBW 100 kHz

Stop 25.000 GHz  
SWP 2.20 s

|                        |               |                 |
|------------------------|---------------|-----------------|
| **** Multi Marker **** |               |                 |
| Nr.1                   | 21.476667 GHz | 6.32 dB $\mu$ V |
| Nr.2                   |               |                 |
| Nr.3                   |               |                 |
| Nr.4                   |               |                 |
| Nr.5                   |               |                 |
| Nr.6                   |               |                 |
| Nr.7                   |               |                 |
| Nr.8                   |               |                 |

Tested by:  
**Johann Roidt**

Date:

Project-No.:

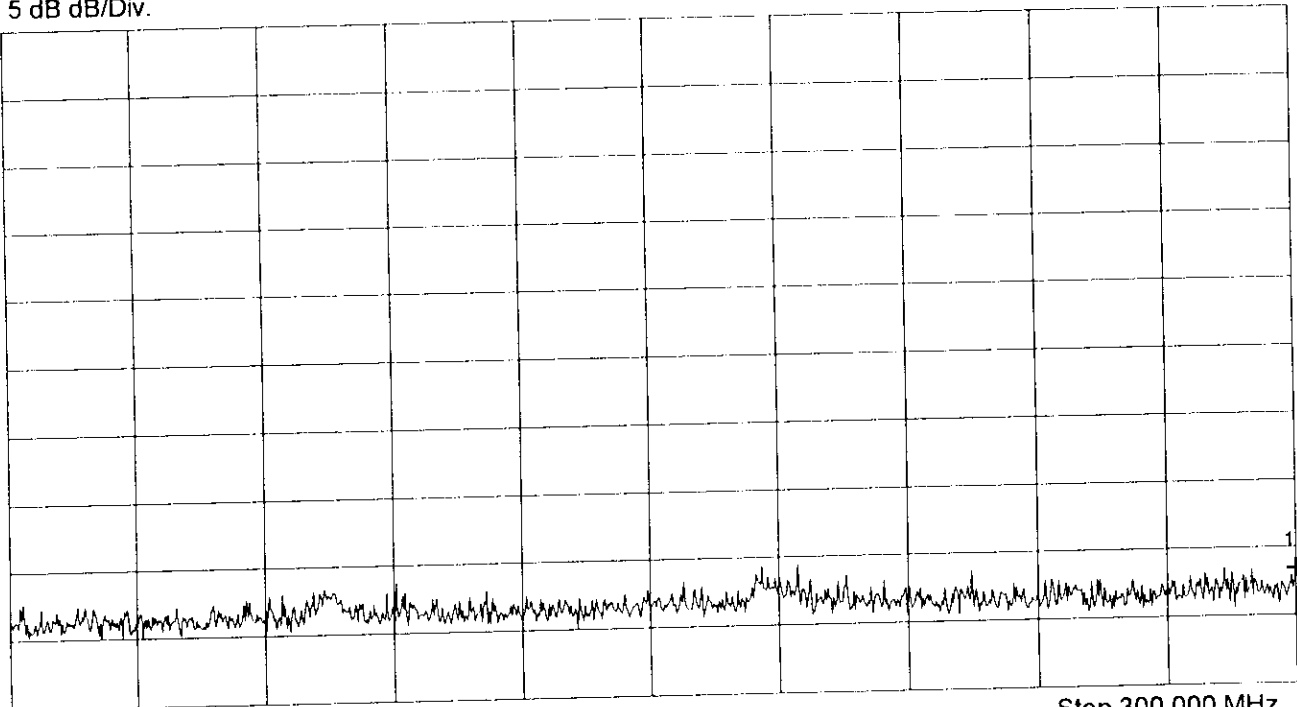
Page of pages

# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 33 (2481.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

|  |                |                 |
|--|----------------|-----------------|
| **** Multi Marker ****                                       |                |                 |
|  | -----          |                 |
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | 300.000000 MHz | 5.42 dB $\mu$ V |

Tested by:  
**Johann Roidt**

Date:

Project-No.:

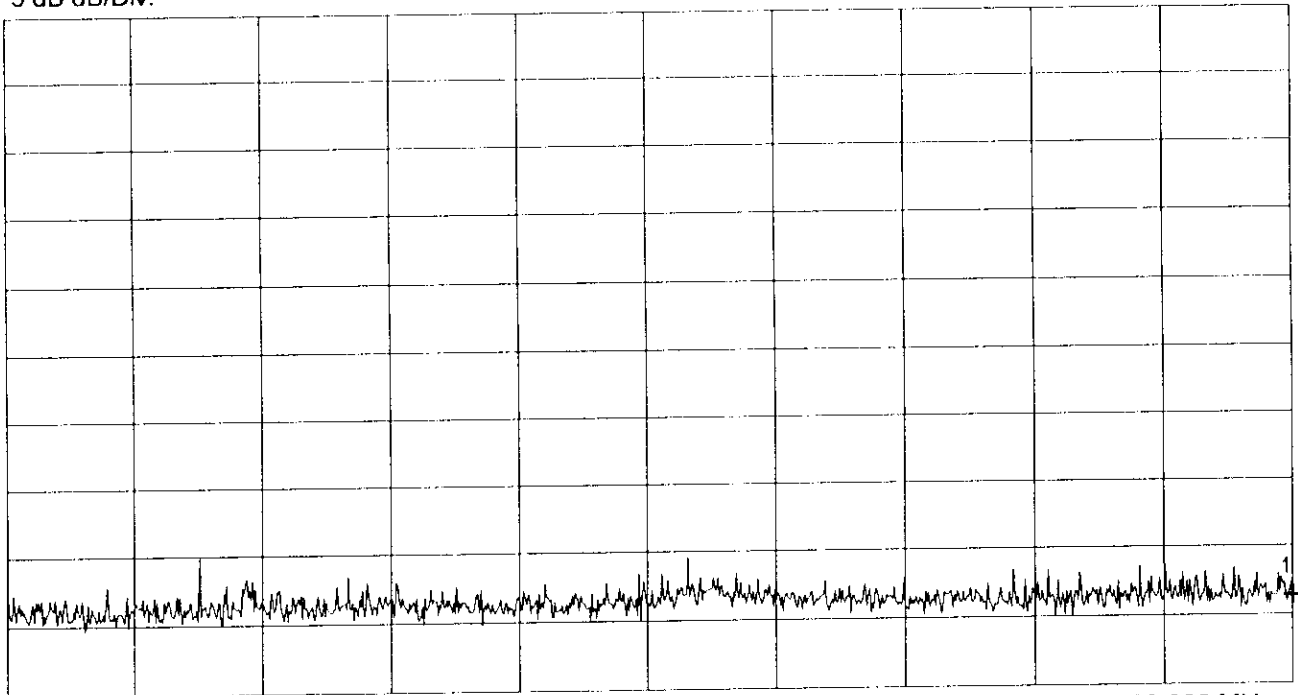
Page of pages

# Radiated Emission Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply Voltage 5 V DC             |
| Serial No.:<br>Sample No. 1 | RX Mode, Channel 33 (2481.5 MHz)           |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Vertical Polarization |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 47 dB $\mu$ V  
 5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
 RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
 SWP 100 ms

|                        |                |                 |
|------------------------|----------------|-----------------|
| **** Multi Marker **** |                |                 |
| Nr.1                   | 300.000000 MHz | 3.42 dB $\mu$ V |
| Nr.2                   |                |                 |
| Nr.3                   |                |                 |
| Nr.4                   |                |                 |
| Nr.5                   |                |                 |
| Nr.6                   |                |                 |
| Nr.7                   |                |                 |
| Nr.8                   |                |                 |

Tested by:  
 Johann Roidt

Project-No.:

Date:

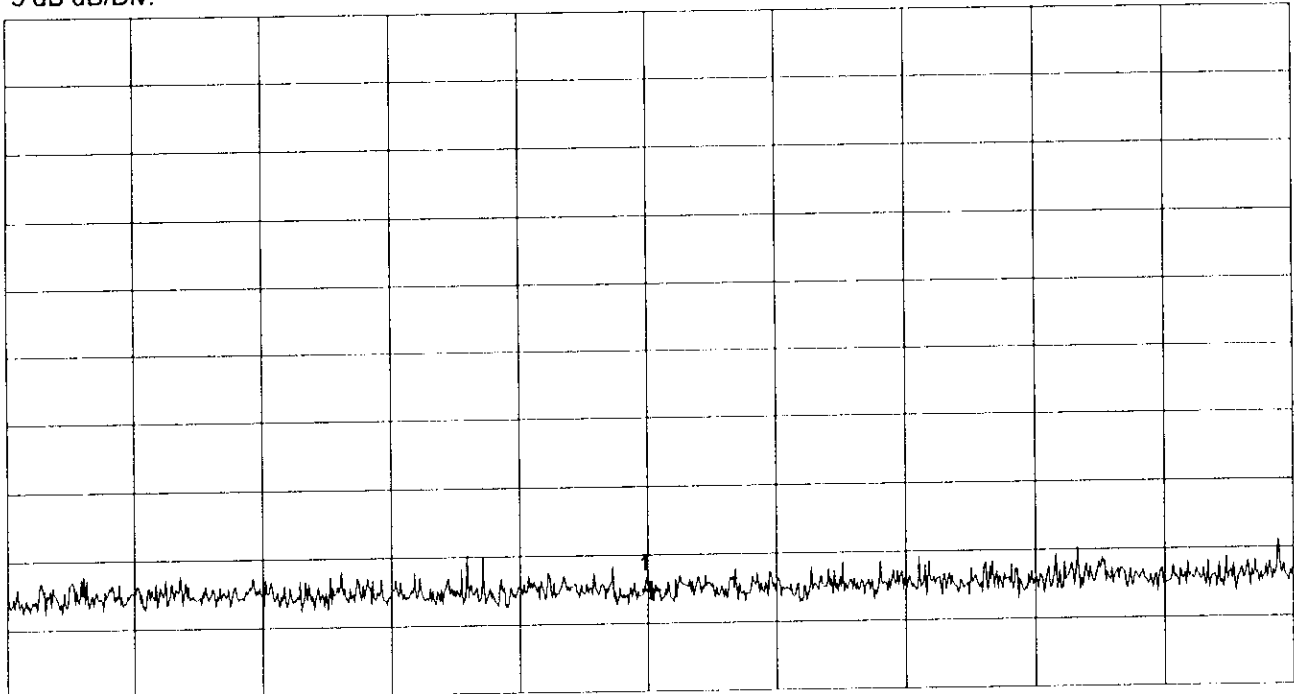
Page of pages

# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>        |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 33 (2481.5 MHz)</b>      |
| Applicant:<br><b>Siemens AG</b>    | Test distance 3 m<br>Horizontal Polarization |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
|      | -----          |                 |
| Nr.1 | 651.555556 MHz | 4.34 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

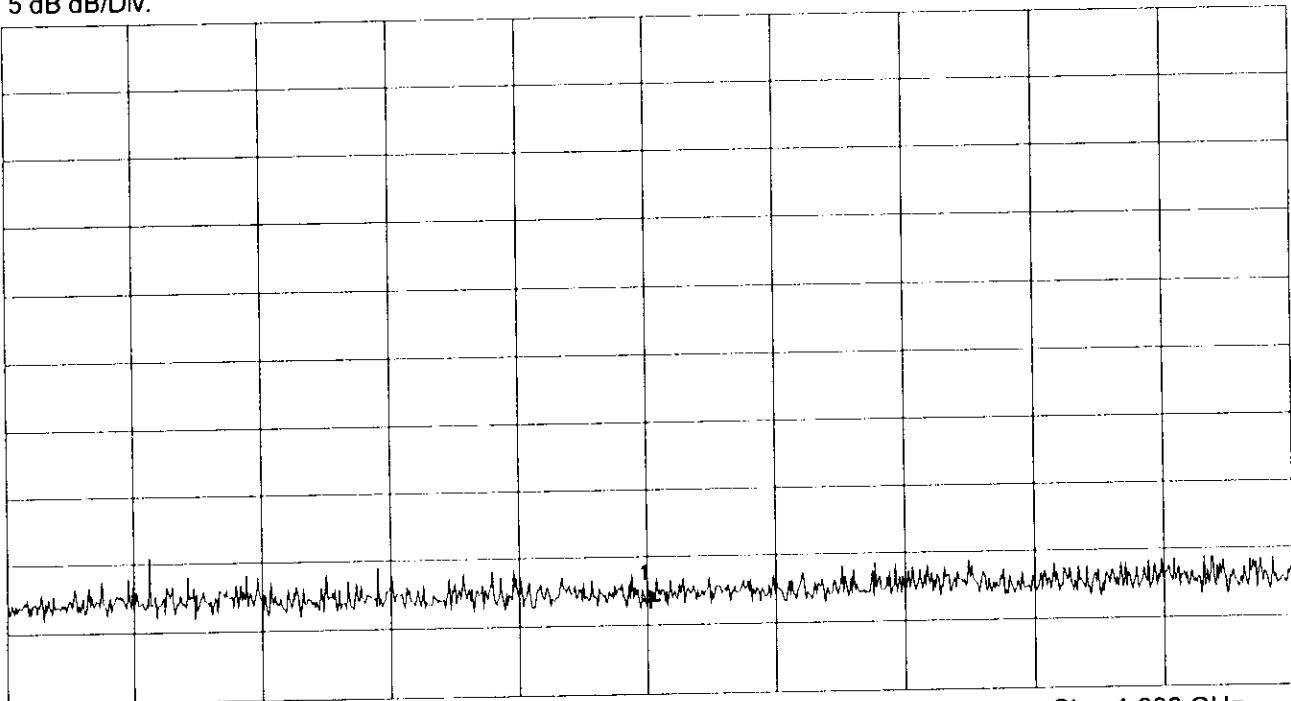
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref. Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|  |                         |                 |
|--|-------------------------|-----------------|
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br>651.555556 MHz | 3.80 dB $\mu$ V |
|--|-------------------------|-----------------|

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

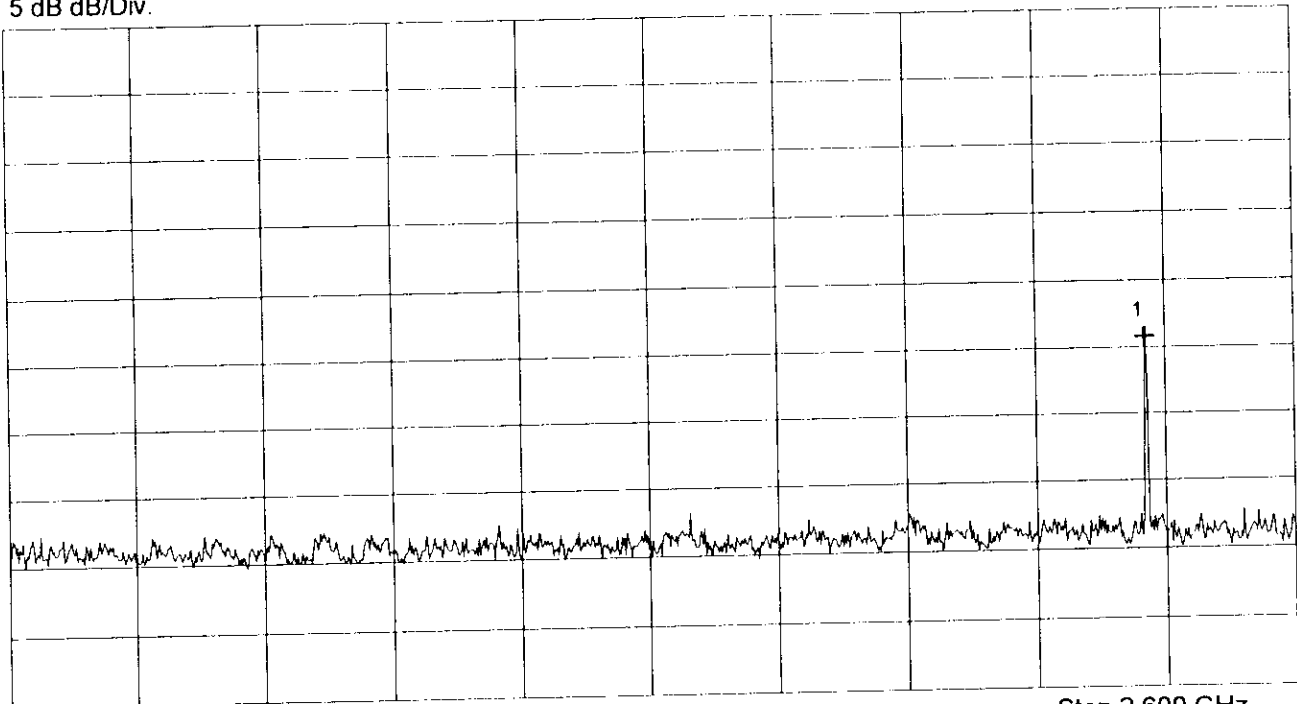
RX Mode Channel 33 (2481.5 MHz)

Test distance 3m  
Vertical polarization

Ref. Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.415111 GHz | 22.30 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

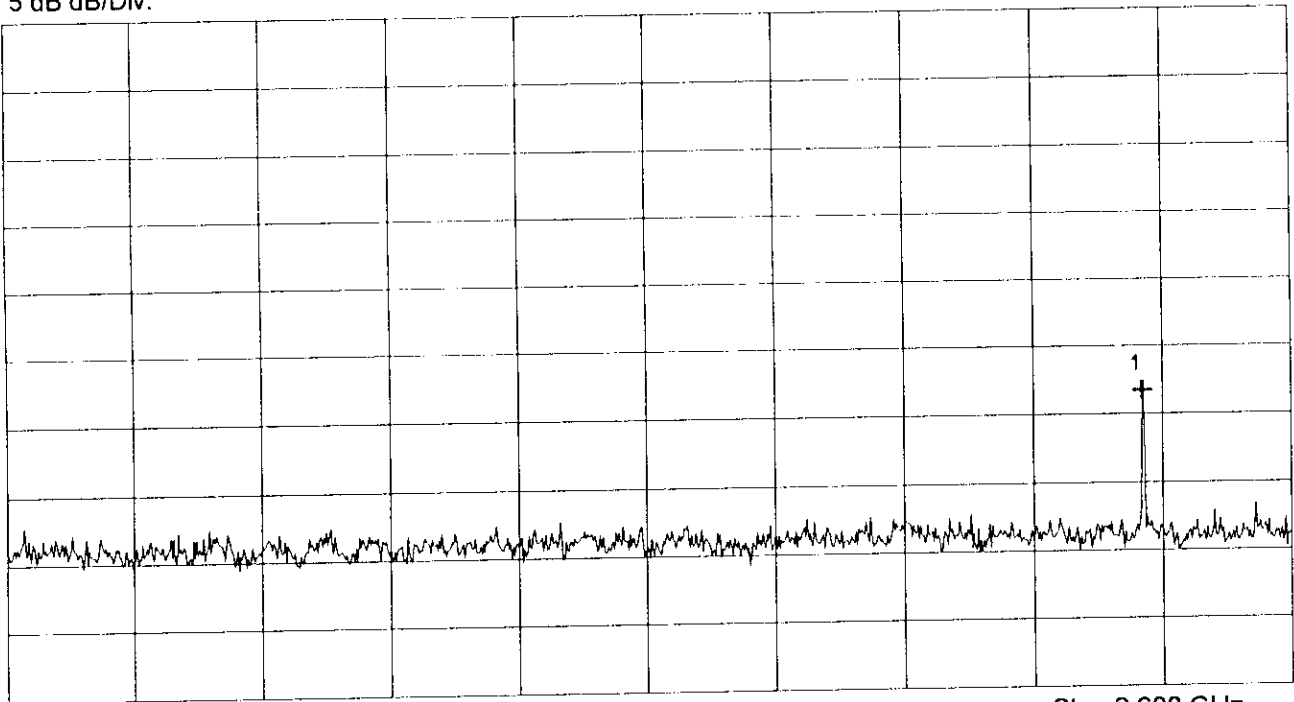
# Radiated Emission Measurement acc. to FCC Rules

|                             |   |
|-----------------------------|---|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC              |
| Serial No.:<br>Sample No. 1 | RX Mode Channel 33 (2481.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 3m<br>Horizontal polarization |
|                             |   |
|                             |   |
|                             |   |
|                             |   |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.415111 GHz | 18.20 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

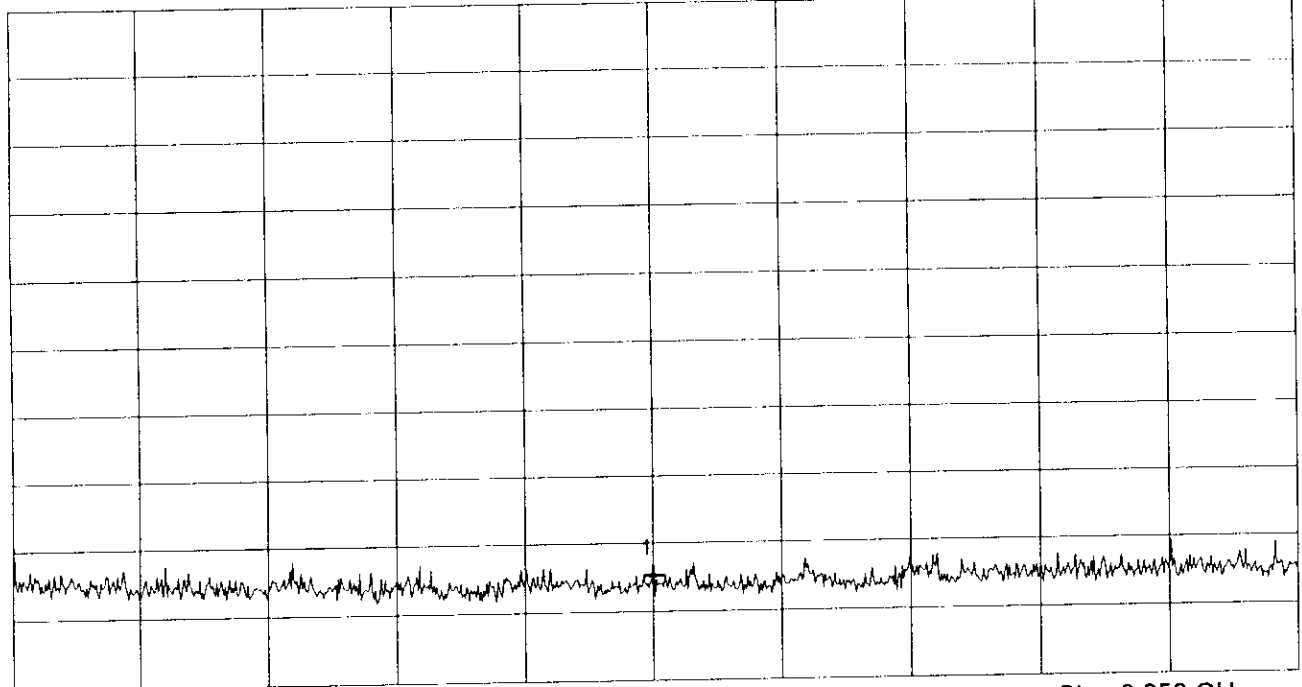
Tested by:  
Johann Roidt

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply Voltage 5 V DC               |
| Serial No.:<br>Sample No. 1 | RX Mode, Channel 33 (2481.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Horizontal Polarization |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 46.5 dB $\mu$ V      ATT 0 dB      Ref. Offset -30.5 dB  
5 dB dB/Div.



Start 2.600 GHz      Stop 3.950 GHz  
RBW 1 MHz      VBW 1 MHz      SWP 20 ms

|                        |              |                 |
|------------------------|--------------|-----------------|
| **** Multi Marker **** |              |                 |
| Nr.1                   | 3.275000 GHz | 4.11 dB $\mu$ V |
| Nr.2                   |              |                 |
| Nr.3                   |              |                 |
| Nr.4                   |              |                 |
| Nr.5                   |              |                 |
| Nr.6                   |              |                 |
| Nr.7                   |              |                 |
| Nr.8                   |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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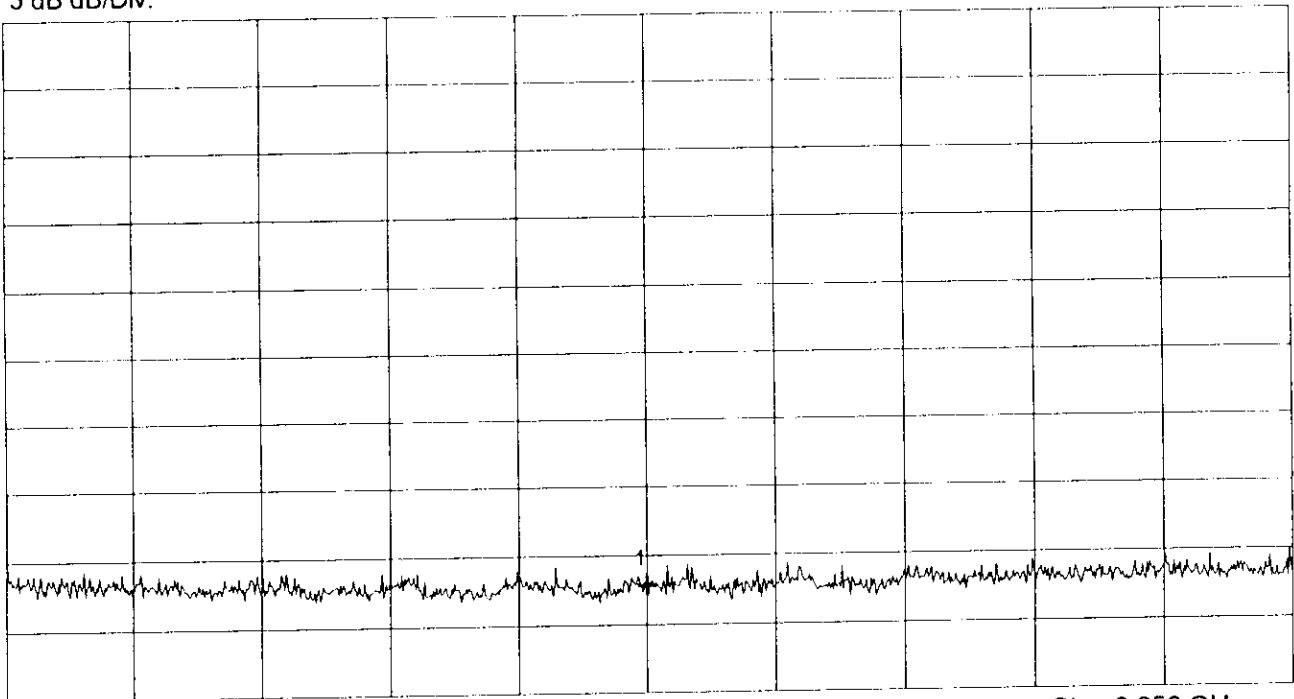
# Radiated Emission Measurement acc. to FCC Rules

|                              |  |
|------------------------------|--|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply Voltage 5 V DC             |
| Serial No.:<br>Sample No. 1  | RX Mode, Channel 33 (2481.5 MHz)           |
| Applicant:<br>Siemens AG     | Test distance 3 m<br>Vertical Polarization |
|                              |  |
|                              |  |
|                              |  |

Ref. Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.275000 GHz | 4.30 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

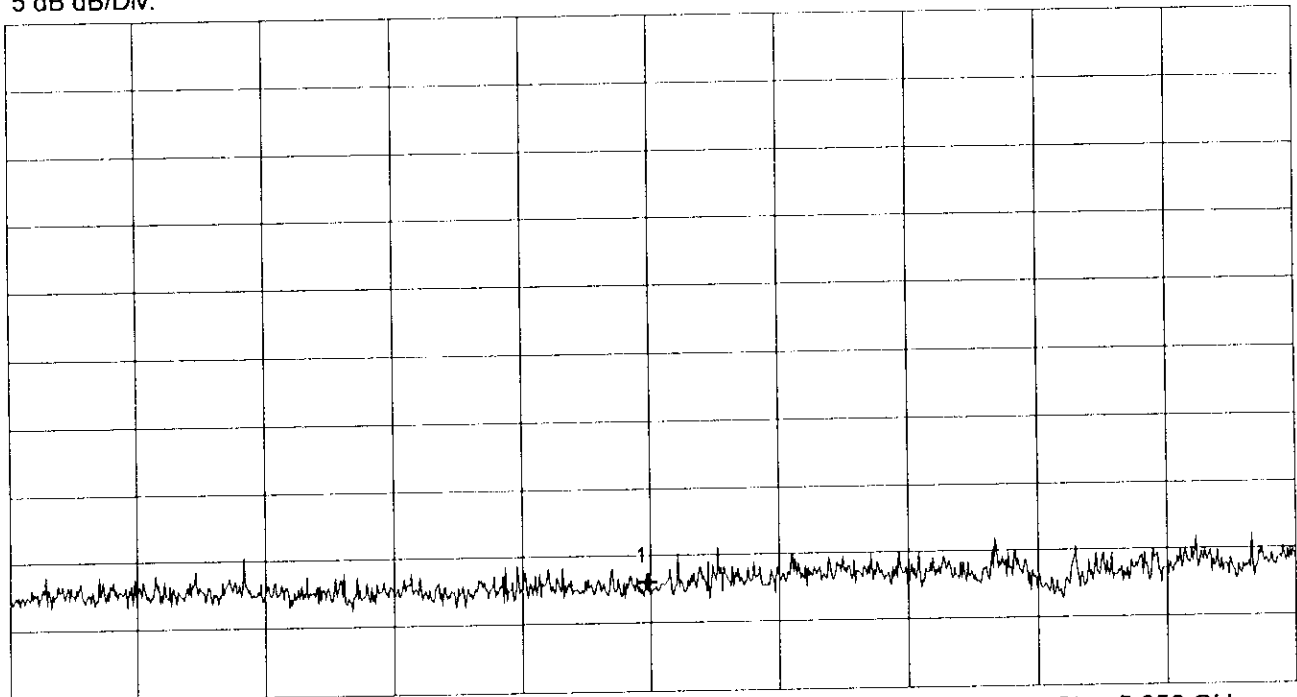
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 33 (2481.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

|                        |              |                 |
|------------------------|--------------|-----------------|
| **** Multi Marker **** |              |                 |
|                        | -----        |                 |
| Nr.1                   | 4.895778 GHz | 4.50 dB $\mu$ V |
| Nr.2                   |              |                 |
| Nr.3                   |              |                 |
| Nr.4                   |              |                 |
| Nr.5                   |              |                 |
| Nr.6                   |              |                 |
| Nr.7                   |              |                 |
| Nr.8                   |              |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

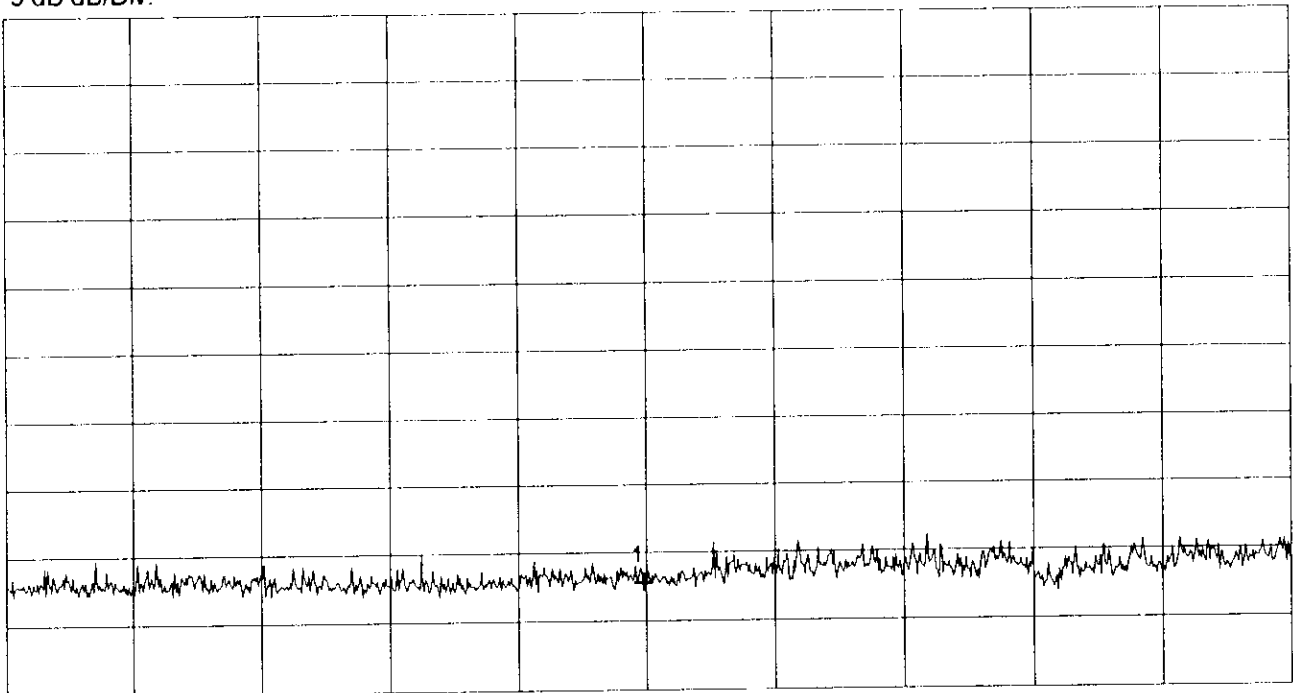
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 33 (2481.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
|      | -----        |                 |
| Nr.1 | 4.895778 GHz | 4.31 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
**Johann Roidt**

Project-No.:

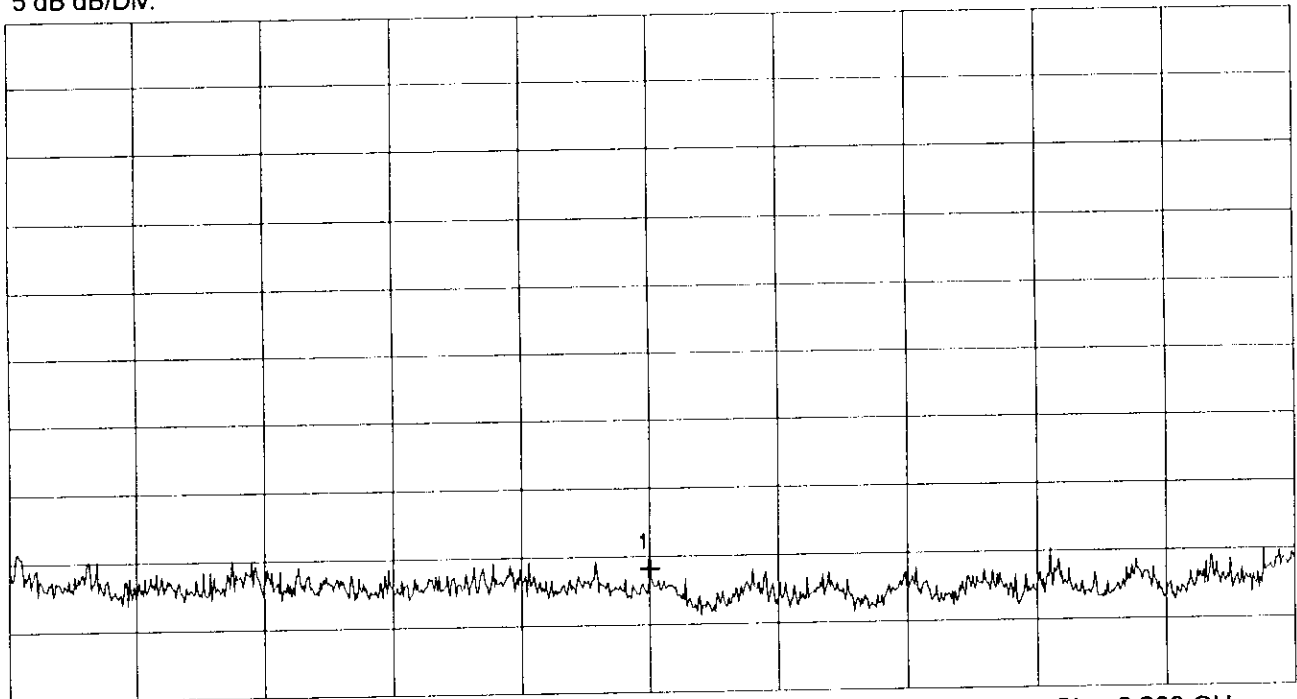
# Radiated Emission Measurement acc. to FCC Rules

|                              |  |
|------------------------------|--|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply Voltage 5 V DC               |
| Serial No.:<br>Sample No. 1  | RX Mode, Channel 33 (2481.5 MHz)             |
| Applicant:<br>Siemens AG     | Test distance 3 m<br>Horizontal Polarization |
|                              |  |
|                              |  |
|                              |  |

Ref. Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

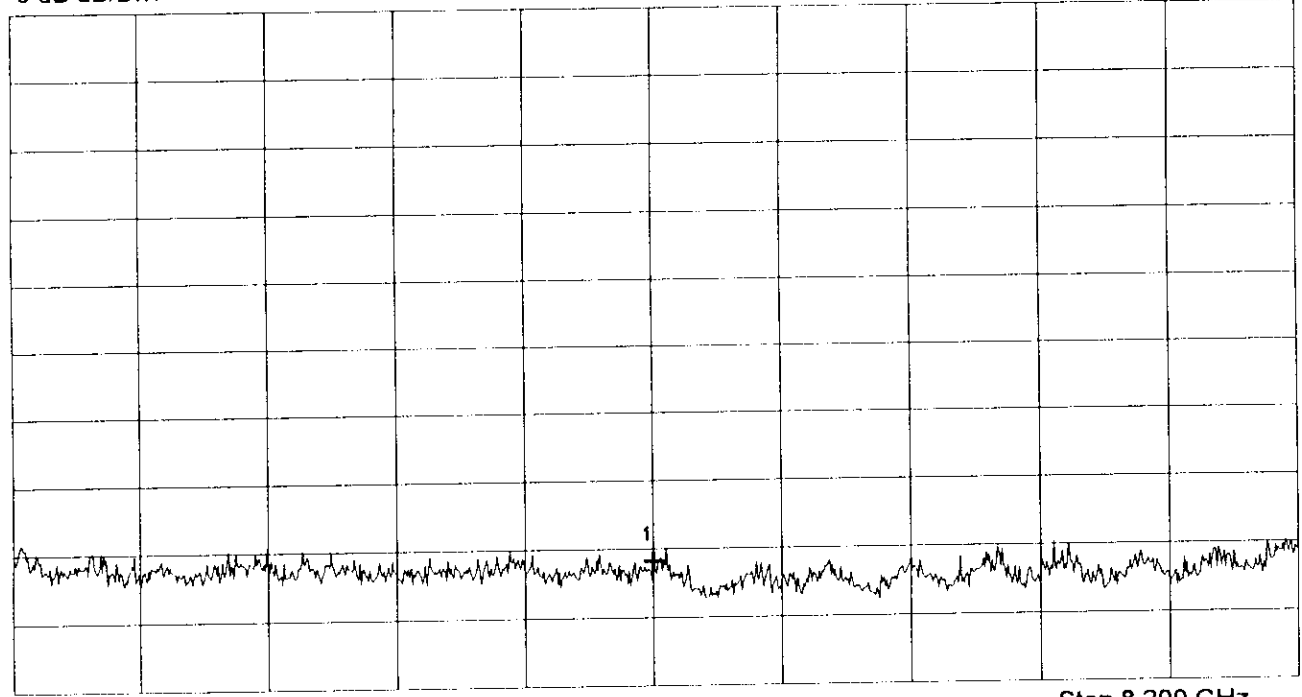
|      |              |                 |
|------|--------------|-----------------|
|      | -----        |                 |
| Nr.1 | 7.025000 GHz | 5.58 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

|                                   |               |
|-----------------------------------|---------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.:  |
| Date:                             | Page of pages |

# Radiated Emission Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply Voltage 5 V DC             |
| Serial No.:<br>Sample No. 1 | RX Mode, Channel 33 (2481.5 MHz)           |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Vertical Polarization |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 46.5 dB $\mu$ V      ATT 0 dB      Ref. Offset -30.5 dB  
5 dB dB/Div.



Start 5.850 GHz      Stop 8.200 GHz  
RBW 1 MHz      VBW 1 MHz      SWP 20 ms

| **** Multi Marker **** |              |                 |
|------------------------|--------------|-----------------|
| Nr.1                   | 7.025000 GHz | 5.58 dB $\mu$ V |
| Nr.2                   |              |                 |
| Nr.3                   |              |                 |
| Nr.4                   |              |                 |
| Nr.5                   |              |                 |
| Nr.6                   |              |                 |
| Nr.7                   |              |                 |
| Nr.8                   |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

Page of pages

# Radiated Emission Measurement acc. to FCC Rules

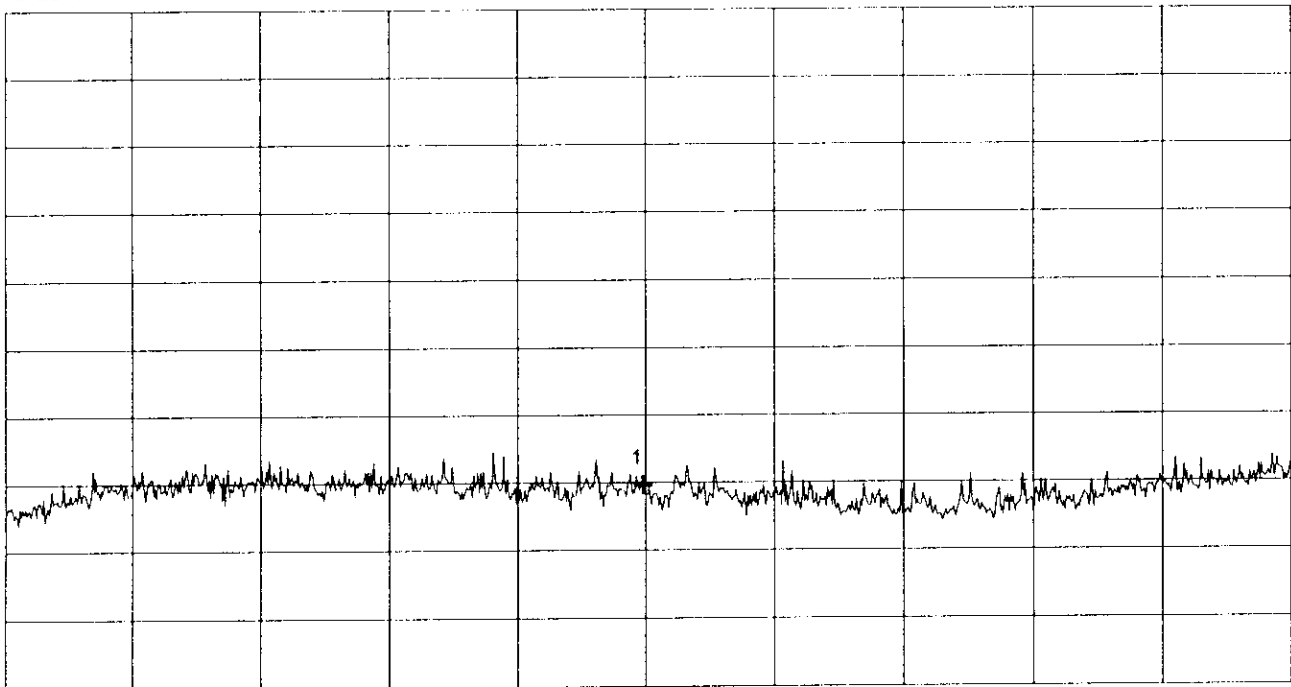
|                             |
|-----------------------------|
| Model:<br>SRIF Module       |
| Serial No.:<br>Sample No. 1 |
| Applicant:<br>Siemens AG    |
|                             |
|                             |
|                             |
|                             |

|  |
|--|
| Mode:<br>Supply Voltage 5 V DC             |
| RX Mode, Channel 33 (2481.5 MHz)           |
| Test distance 3 m<br>Vertical Polarization |

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 10.290667 GHz | 6.81 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

|                            |
|----------------------------|
| Tested by:<br>Johann Roidt |
|----------------------------|

|              |
|--------------|
| Project-No.: |
|--------------|

|       |
|-------|
| Date: |
|-------|

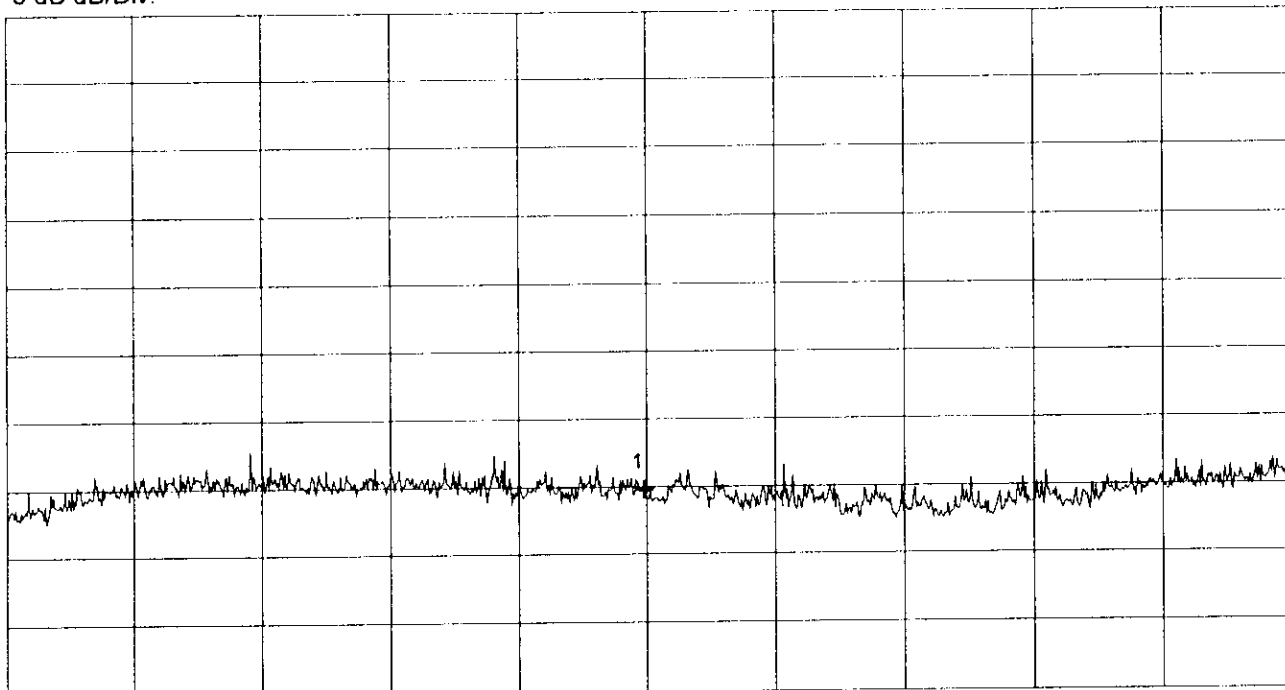
# Radiated Emission Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply Voltage 5 V DC               |
| Serial No.:<br>Sample No. 1 | RX Mode, Channel 33 (2481.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Horizontal Polarization |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

|                        |               |                 |
|------------------------|---------------|-----------------|
| **** Multi Marker **** |               |                 |
| Nr.1                   | 10.290667 GHz | 6.81 dB $\mu$ V |
| Nr.2                   |               |                 |
| Nr.3                   |               |                 |
| Nr.4                   |               |                 |
| Nr.5                   |               |                 |
| Nr.6                   |               |                 |
| Nr.7                   |               |                 |
| Nr.8                   |               |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

---

Serial No.:  
Sample No. 1

---

Applicant:  
Siemens AG

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Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 33 (2481.5 MHz)

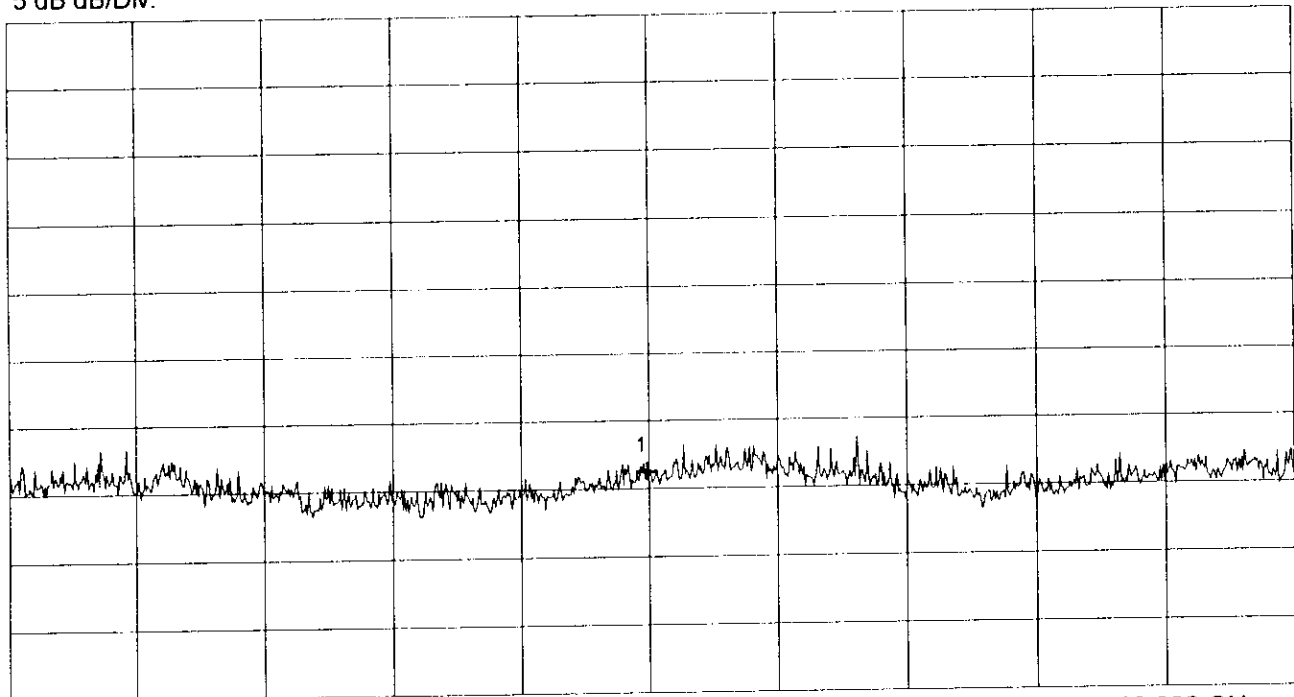
  

Test distance 3 m  
Horizontal Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 15.193778 GHz | 8.23 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:



# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

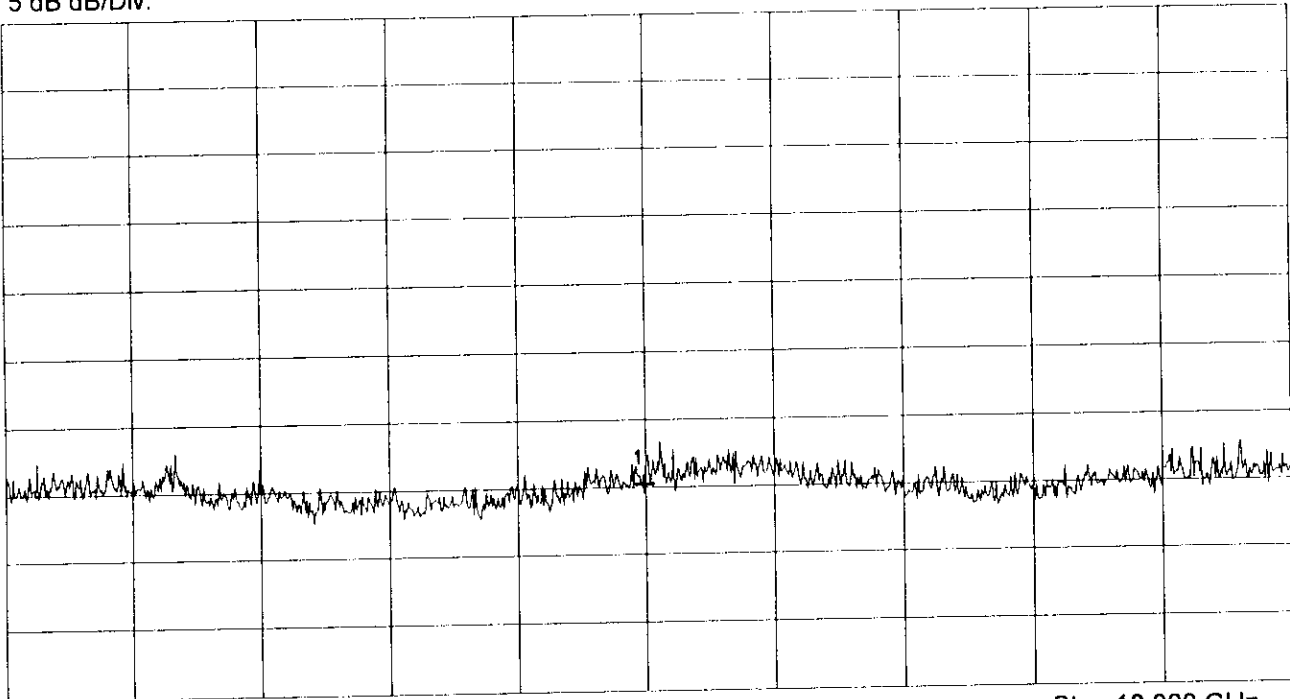
RX Mode, Channel 33 (2481.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 15.193778 GHz | 7.22 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

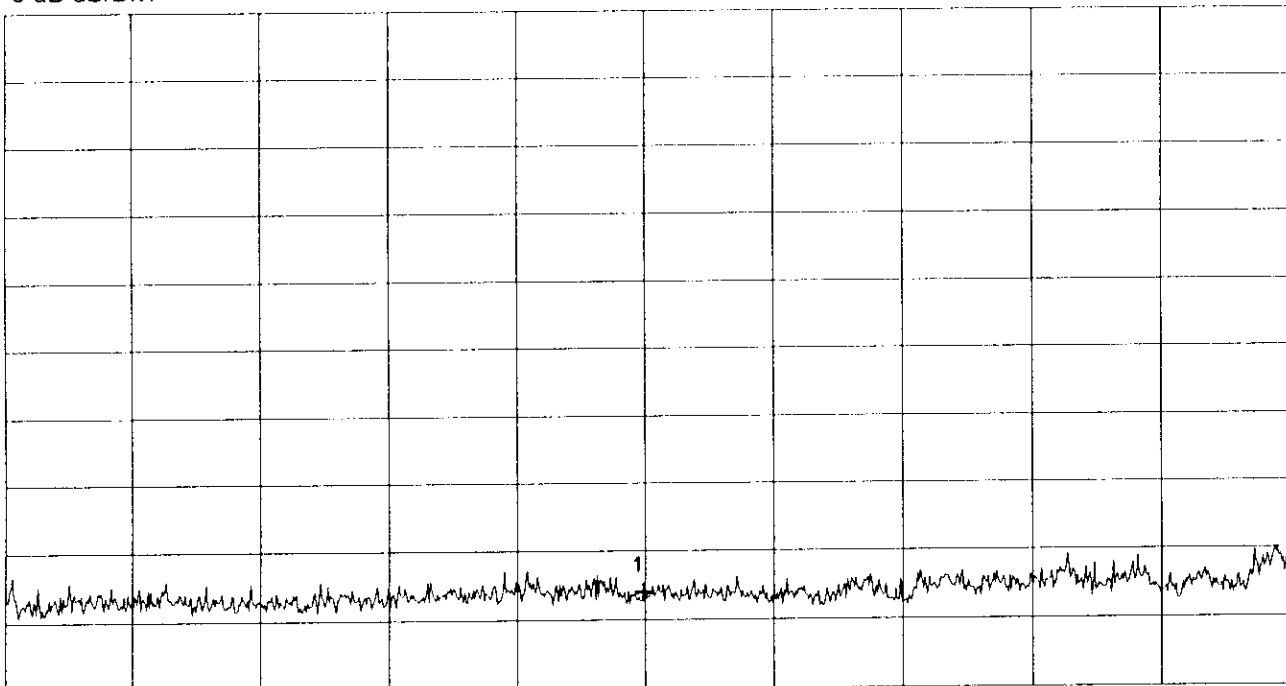
Date:

# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 33 (2481.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 1 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

|                        |               |                  |
|------------------------|---------------|------------------|
| **** Multi Marker **** |               |                  |
|                        | -----         |                  |
| Nr.1                   | 22.240556 GHz | 18.99 dB $\mu$ V |
| Nr.2                   |               |                  |
| Nr.3                   |               |                  |
| Nr.4                   |               |                  |
| Nr.5                   |               |                  |
| Nr.6                   |               |                  |
| Nr.7                   |               |                  |
| Nr.8                   |               |                  |

Tested by:  
**Johann Roidt**

Project-No.:

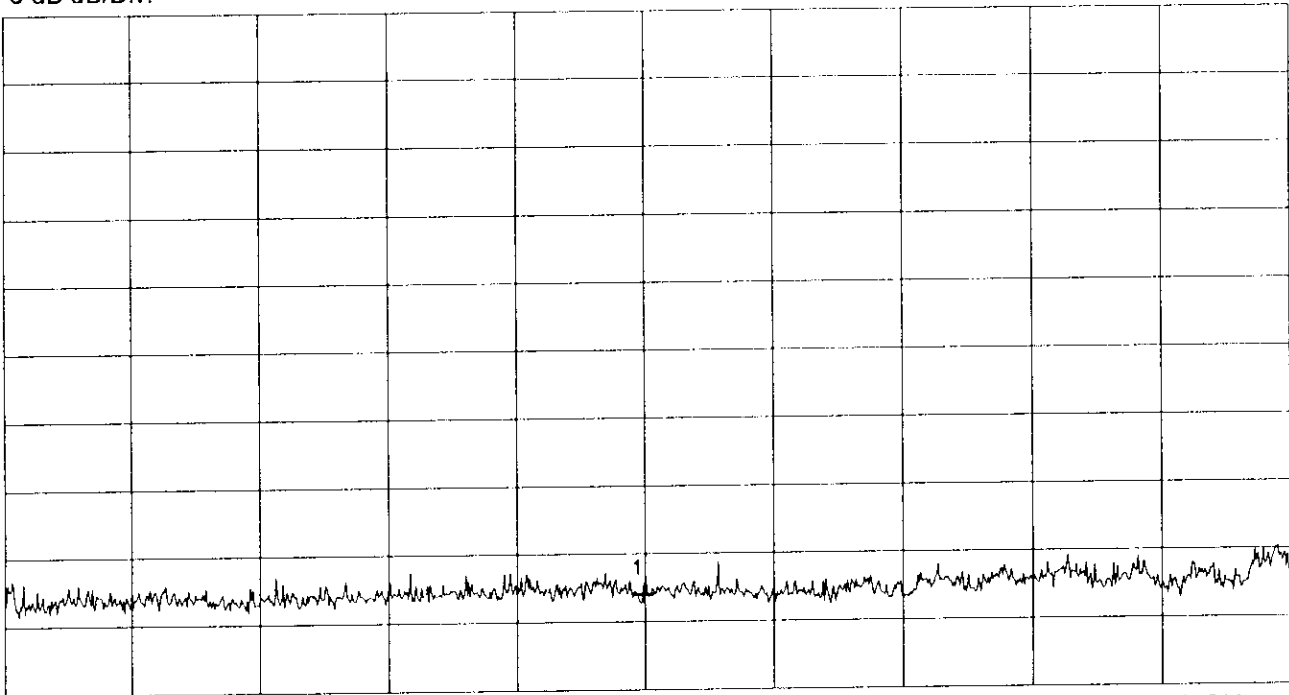
# Radiated Emission Measurement acc. to FCC Rules

|                             |
|-----------------------------|
| Model:<br>SRIF Module       |
| Serial No.:<br>Sample No. 1 |
| Applicant:<br>Siemens AG    |
|                             |
|                             |
|                             |
|                             |

|  |
|--|
| Mode:<br>Supply Voltage 5 V DC               |
| RX Mode, Channel 33 (2481.5 MHz)             |
| Test distance 1 m<br>Horizontal Polarization |

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

|                        |               |                  |
|------------------------|---------------|------------------|
| **** Multi Marker **** |               |                  |
|                        | -----         |                  |
| Nr.1                   | 22.240556 GHz | 18.99 dB $\mu$ V |
| Nr.2                   |               |                  |
| Nr.3                   |               |                  |
| Nr.4                   |               |                  |
| Nr.5                   |               |                  |
| Nr.6                   |               |                  |
| Nr.7                   |               |                  |
| Nr.8                   |               |                  |

|                            |
|----------------------------|
| Tested by:<br>Johann Roidt |
| Date:                      |

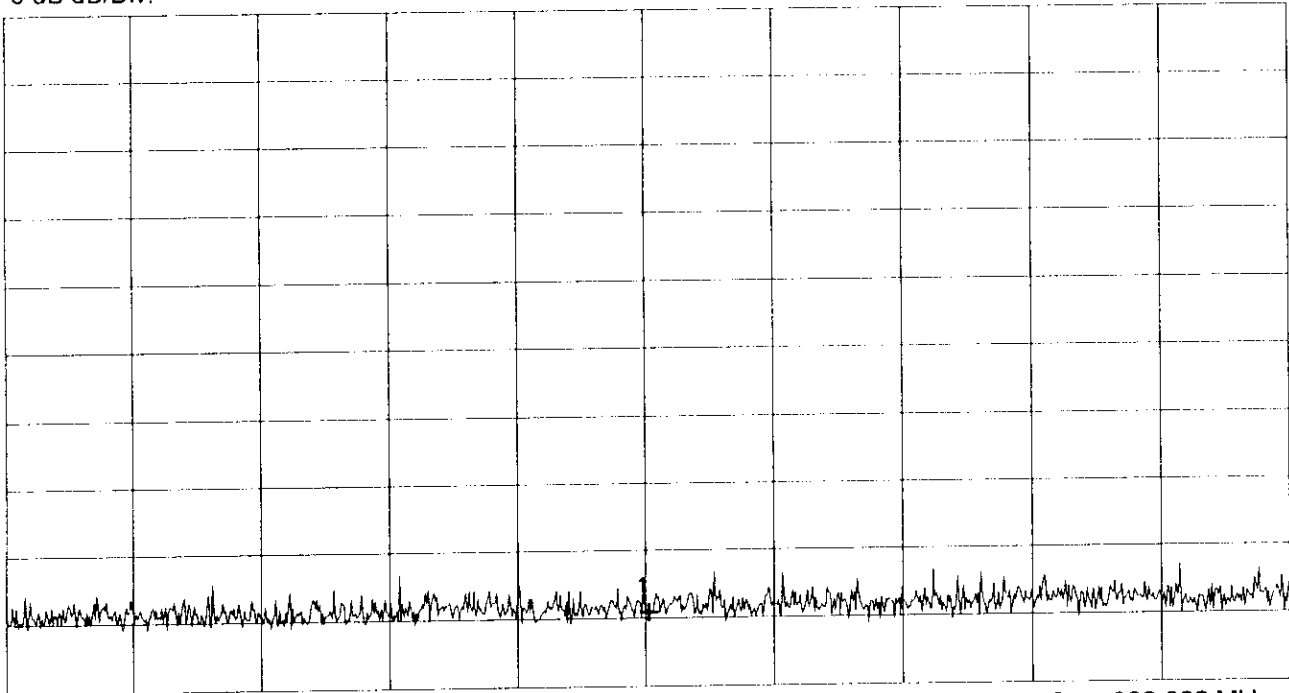
|              |
|--------------|
| Project-No.: |
|--------------|

# Radiated Emissions Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC               |
| Serial No.:<br>Sample No. 1 | RX mode, channel 27 (2466.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Horizontal polarization |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 47 dB $\mu$ V  
 5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
 RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
 SWP 100 ms

|  |                         |                 |
|--|-------------------------|-----------------|
| **** Multi Marker ****                                       |                         |                 |
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br>165.600000 MHz | 2.41 dB $\mu$ V |

Tested by:  
 Johann Roitd

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

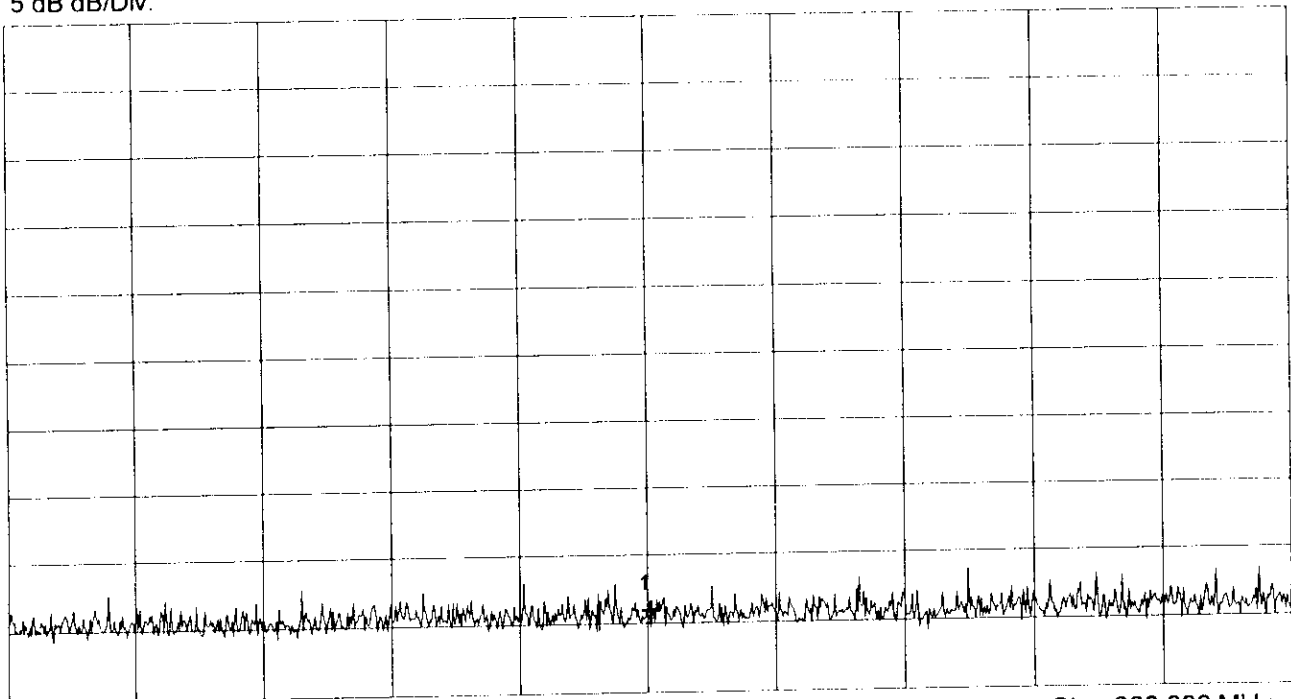
Mode:  
Supply voltage 5 V DC

RX mode, channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.600000 MHz | 2.92 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

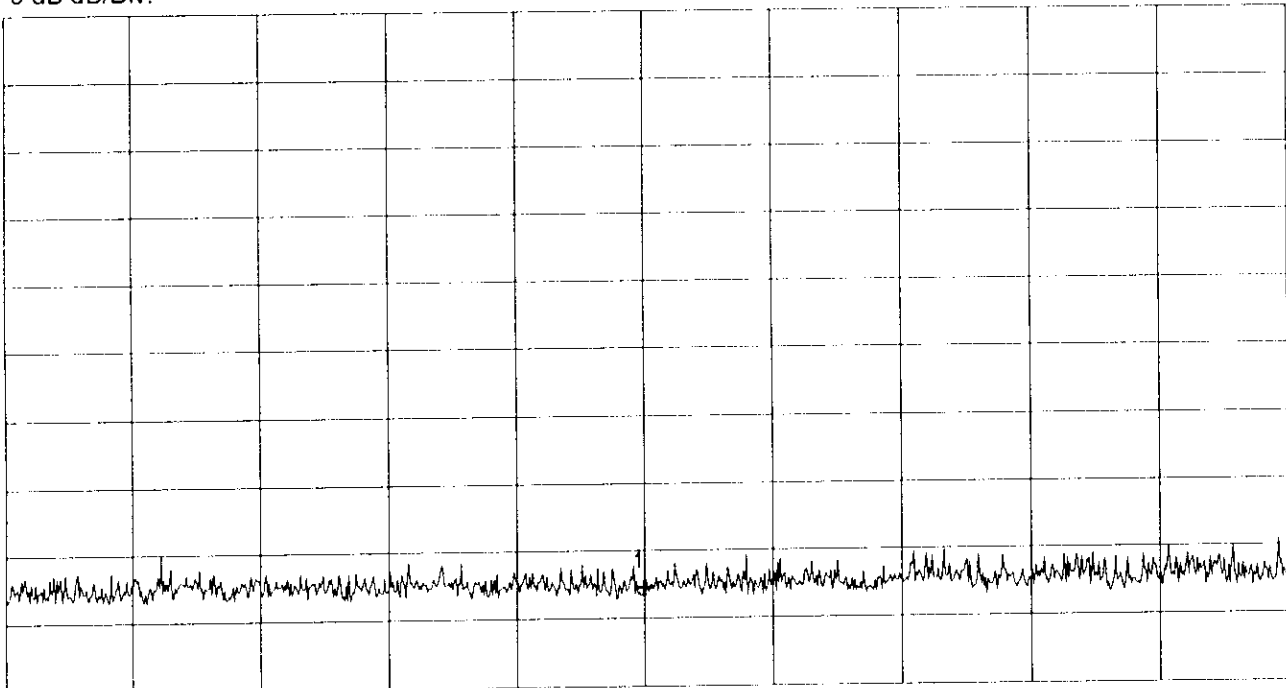
Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br>Sample No. 1 | RX mode, channel 27 (2466.5 MHz)           |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Vertical polarization |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

| **** Multi Marker **** |                 |                    |
|------------------------|-----------------|--------------------|
| Nr.                    | Frequency (MHz) | Level (dB $\mu$ V) |
| Nr.1                   | 650.000000 MHz  | 4.24 dB $\mu$ V    |
| Nr.2                   |                 |                    |
| Nr.3                   |                 |                    |
| Nr.4                   |                 |                    |
| Nr.5                   |                 |                    |
| Nr.6                   |                 |                    |
| Nr.7                   |                 |                    |
| Nr.8                   |                 |                    |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

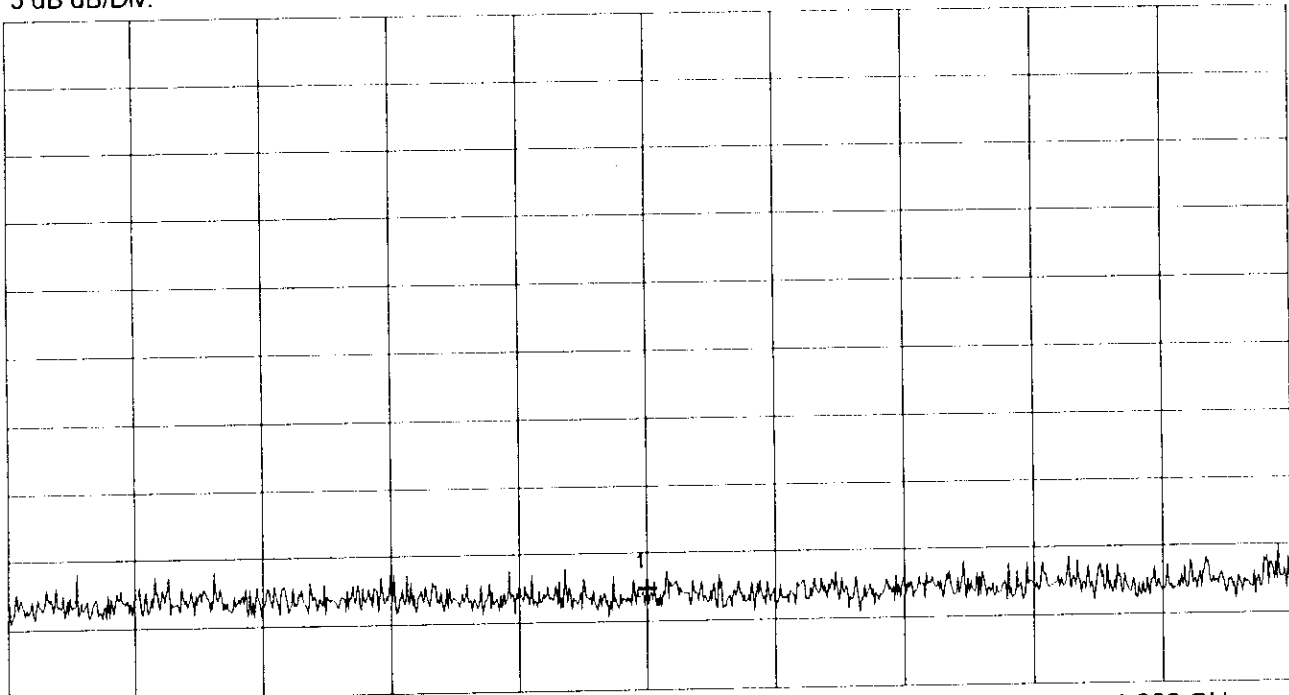
Mode:  
Supply voltage 5 V DC

RX mode, channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 650.000000 MHz | 4.34 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

---

Serial No.:  
Sample No. 1

---

Applicant:  
Siemens AG

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Mode:  
Supply voltage 5 V DC

---

RX Mode Channel 27 (2466.5 MHz)

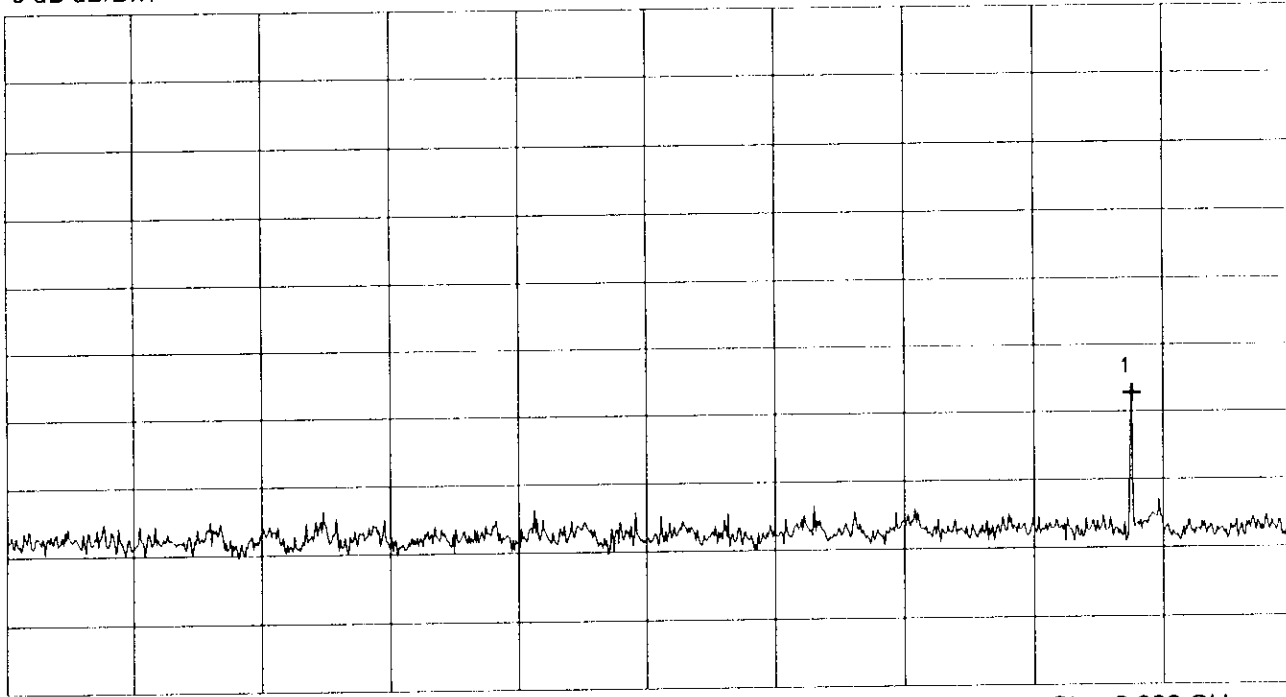
---

Test distance 3m  
Horizontal polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
|      | -----        |                  |
| Nr.1 | 2.400889 GHz | 17.89 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

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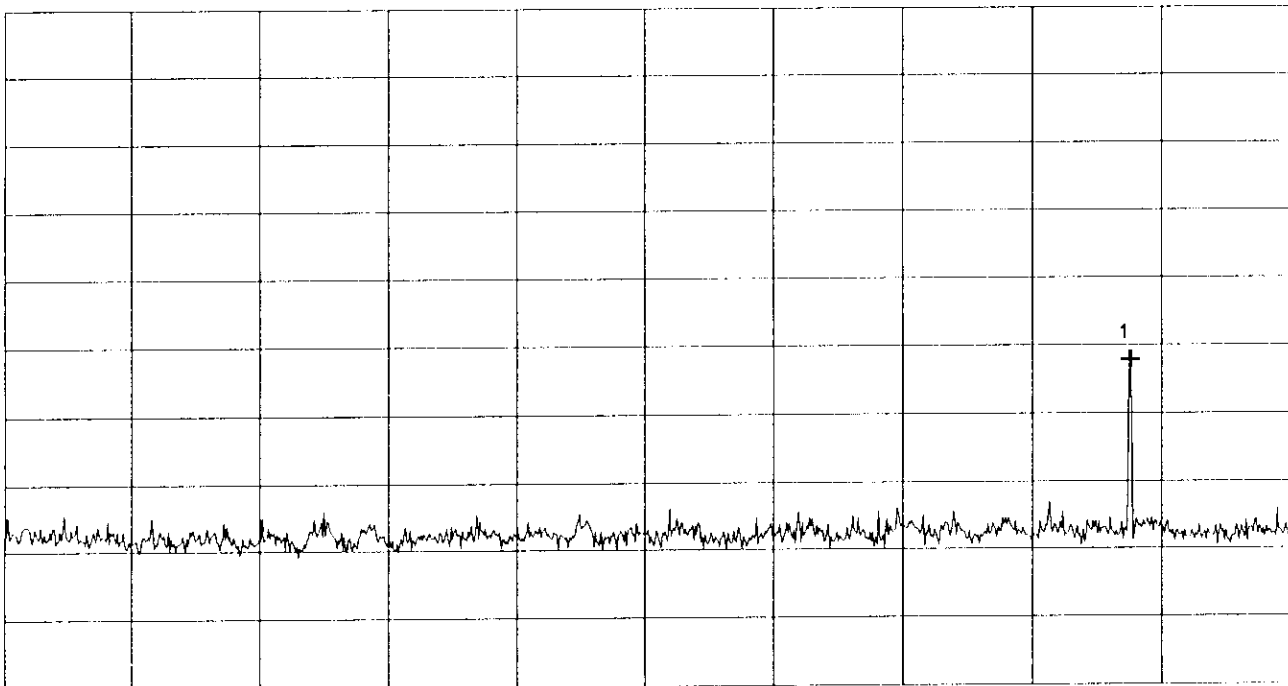
# Radiated Emission Measurement acc. to FCC Rules

|                                    |   |
|------------------------------------|---|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply voltage 5 V DC</b>                   |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode Channel 27 (2466.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3m</b><br><b>Vertical polarization</b> |
|                                    |   |
|                                    |   |
|                                    |   |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

|                        |              |                  |
|------------------------|--------------|------------------|
| **** Multi Marker **** |              |                  |
|                        | -----        |                  |
| Nr.1                   | 2.400889 GHz | 20.41 dB $\mu$ V |
| Nr.2                   |              |                  |
| Nr.3                   |              |                  |
| Nr.4                   |              |                  |
| Nr.5                   |              |                  |
| Nr.6                   |              |                  |
| Nr.7                   |              |                  |
| Nr.8                   |              |                  |

|                                   |              |
|-----------------------------------|--------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.: |
|-----------------------------------|--------------|

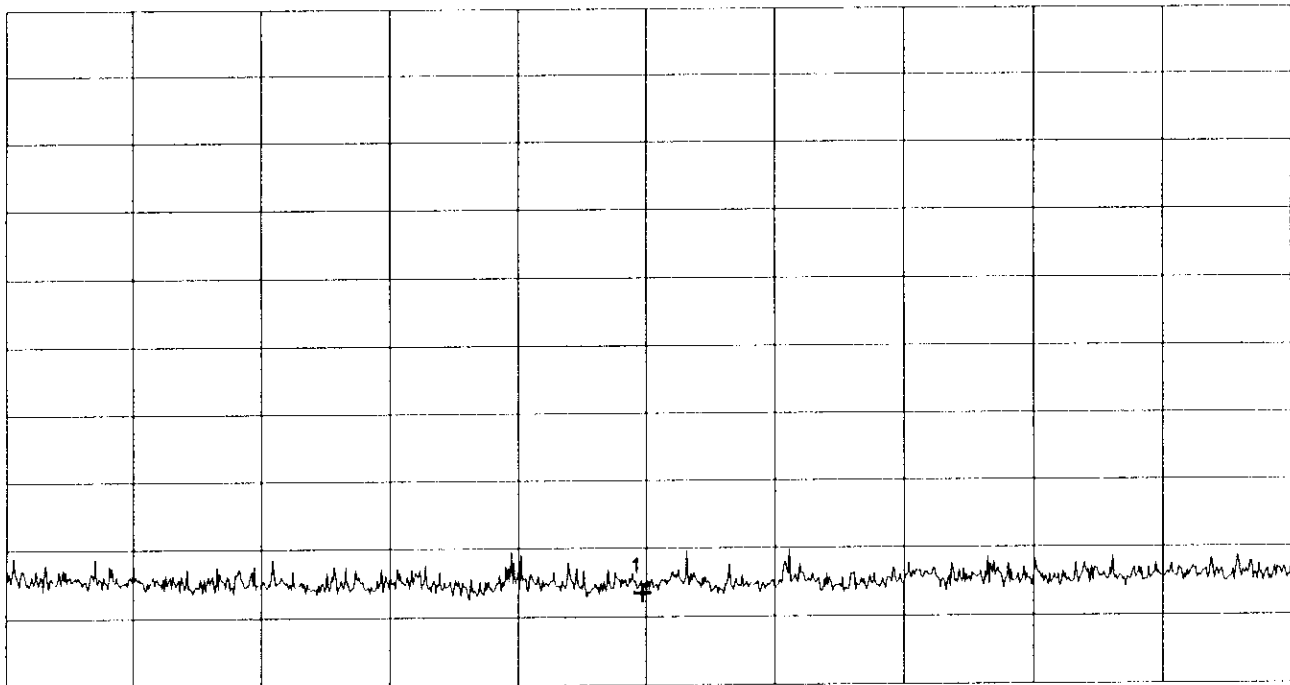
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 27 (2466.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

|  |              |                 |
|--|--------------|-----------------|
| **** Multi Marker ****                                       |              |                 |
|  | -----        |                 |
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | 3.270500 GHz | 3.20 dB $\mu$ V |

|                                   |              |
|-----------------------------------|--------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.: |
| Date:                             |              |

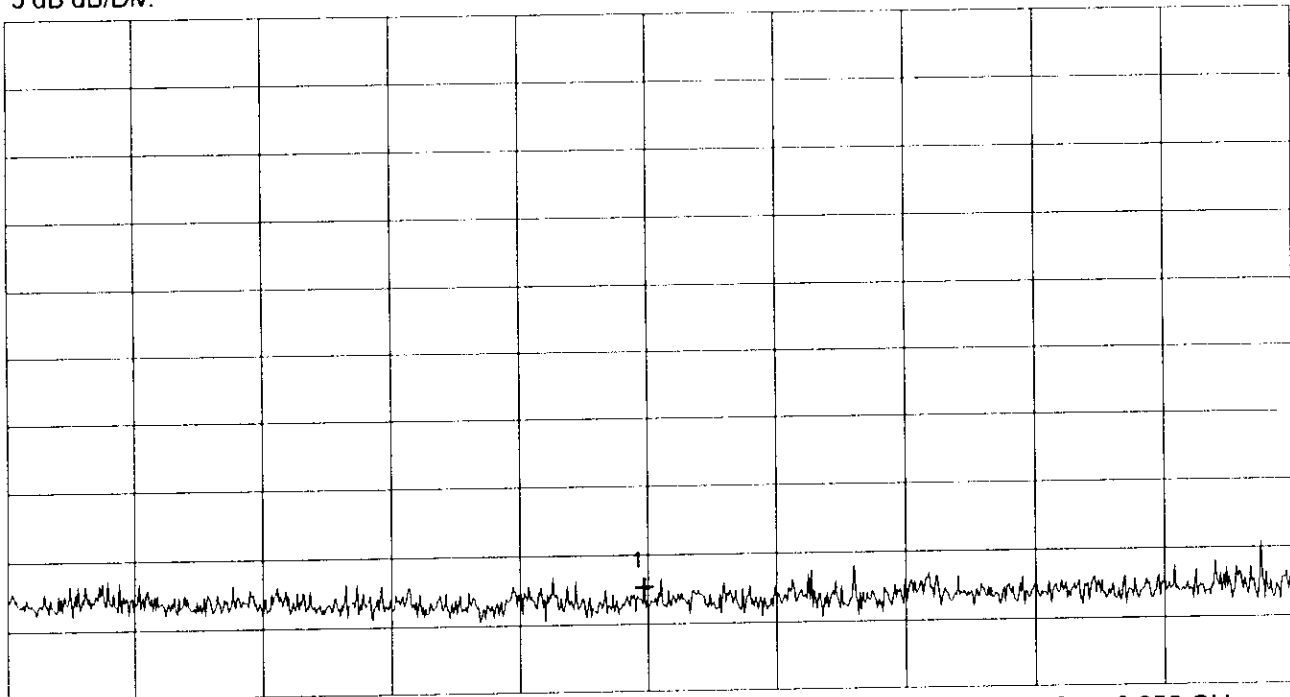
# Radiated Emission Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply Voltage 5 V DC<br><br>RX Mode, Channel 27 (2466.5 MHz)<br><br>Test distance 3 m<br>Vertical Polarization |
| Serial No.:<br>Sample No. 1 |  |
| Applicant:<br>Siemens AG    |  |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 3.270500 GHz | 4.15 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

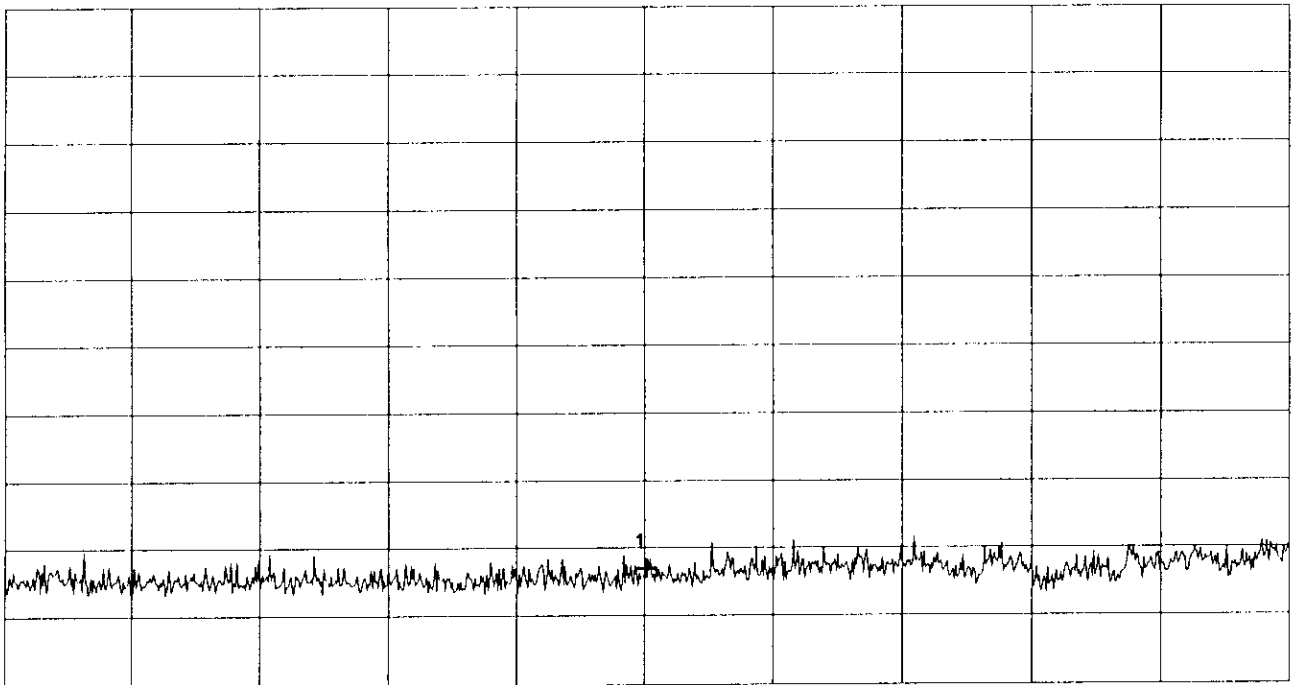
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 27 (2466.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
|      | -----        |                 |
| Nr.1 | 4.902111 GHz | 4.95 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
**Johann Roidt**

Project-No.:

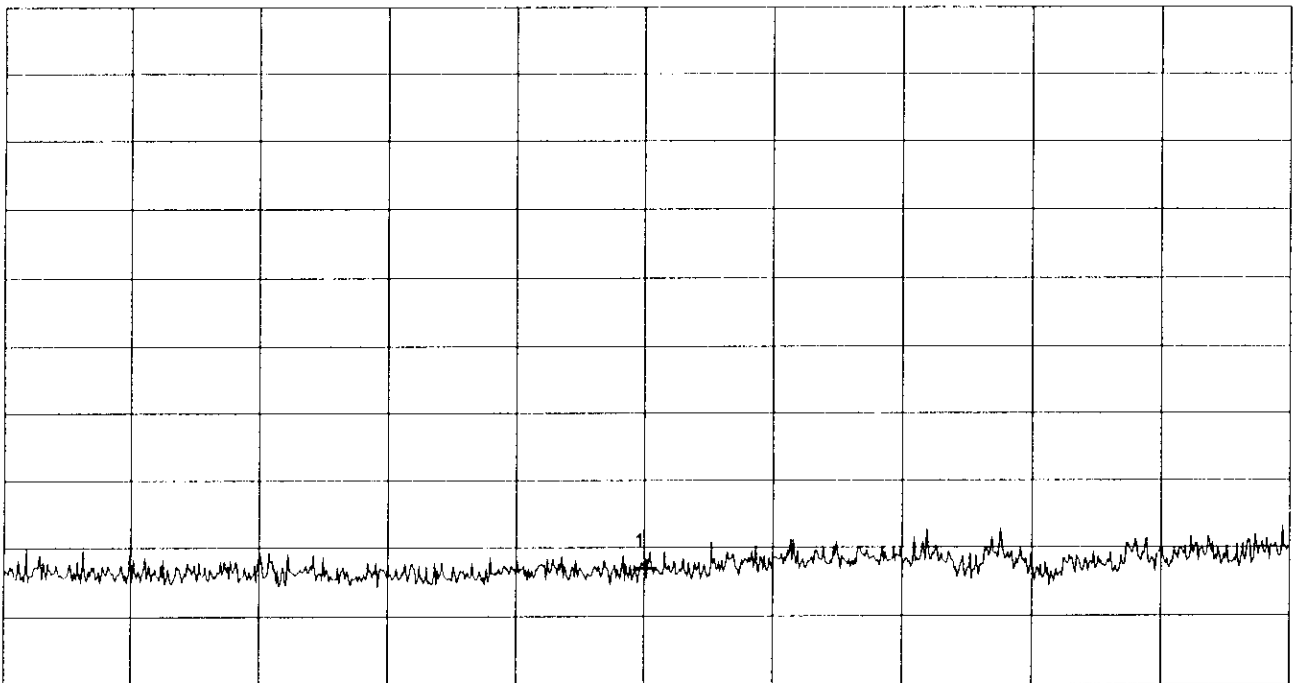
# Radiated Emission Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply Voltage 5 V DC               |
| Serial No.:<br>Sample No. 1 | RX Mode, Channel 27 (2466.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Horizontal Polarization |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

Ref. Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 4.902111 GHz | 4.95 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

|                            |              |
|----------------------------|--------------|
| Tested by:<br>Johann Roidt | Project-No.: |
| Date:                      |              |

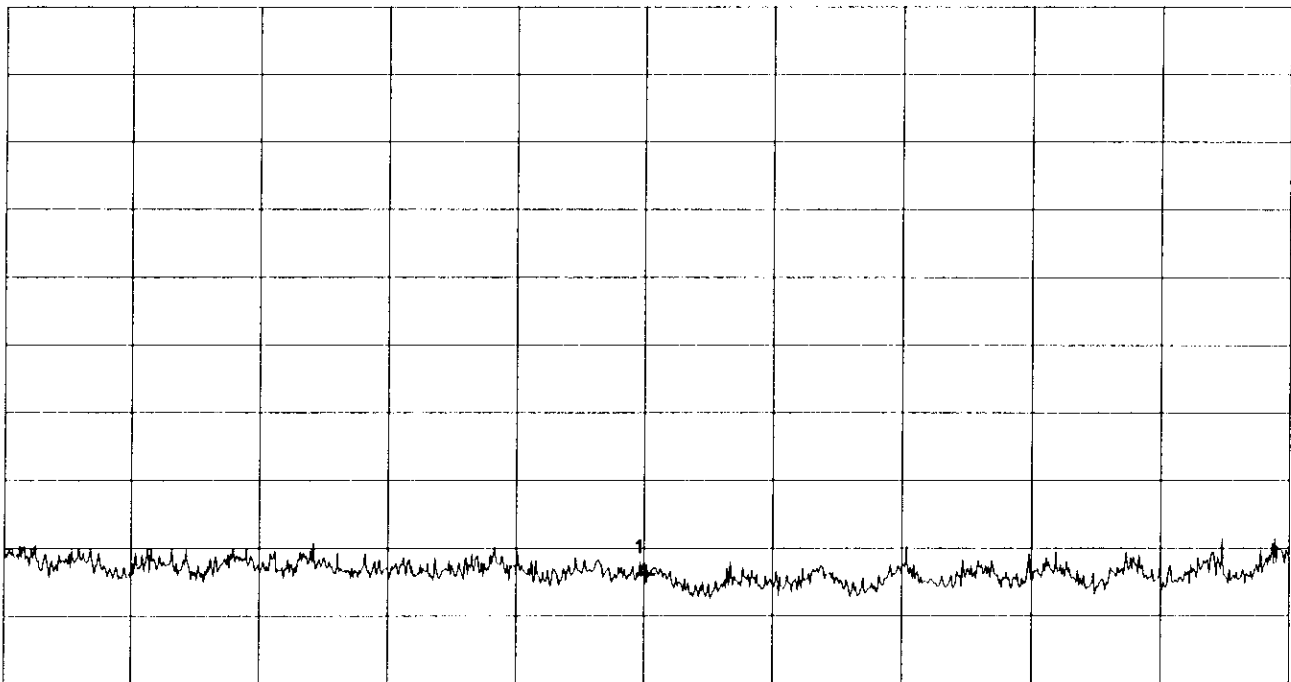
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 27 (2466.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
|      | -----        |                 |
| Nr.1 | 7.027611 GHz | 4.55 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

|                                   |              |
|-----------------------------------|--------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.: |
| Date:                             |              |



# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

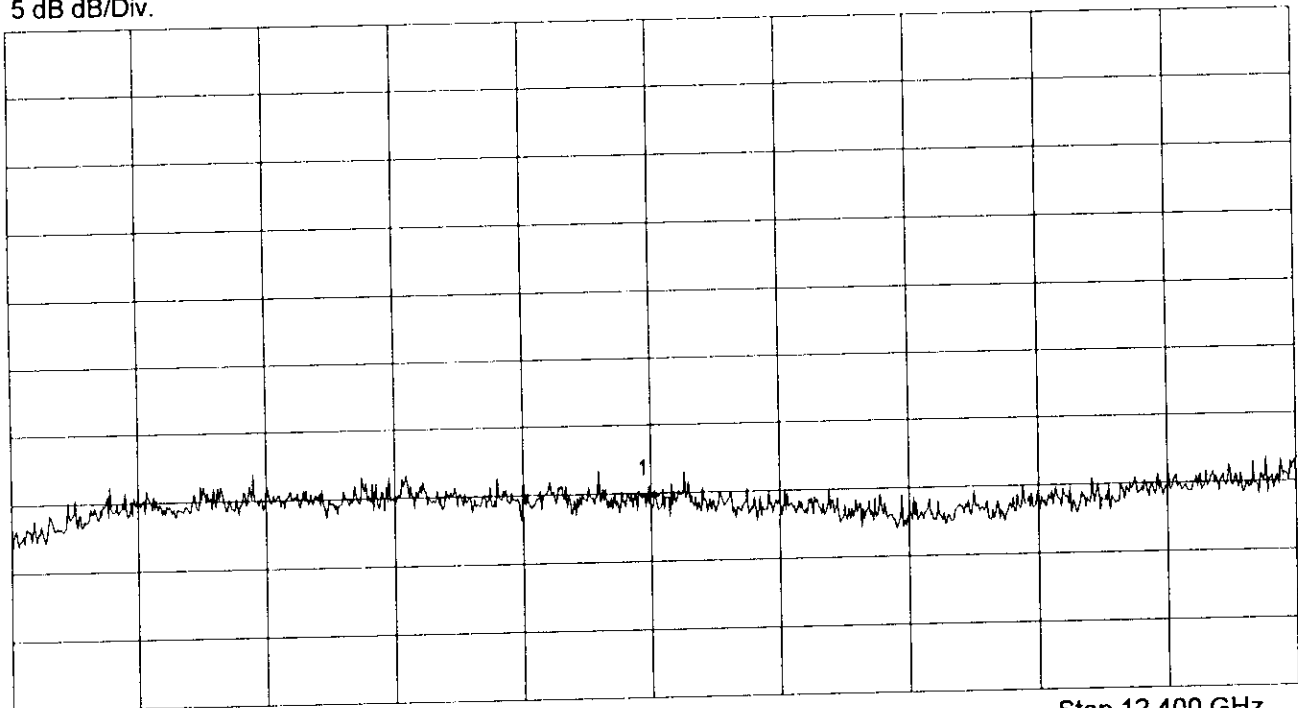
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref. Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 10.295333 GHz | 6.81 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Date:

Project-No.:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

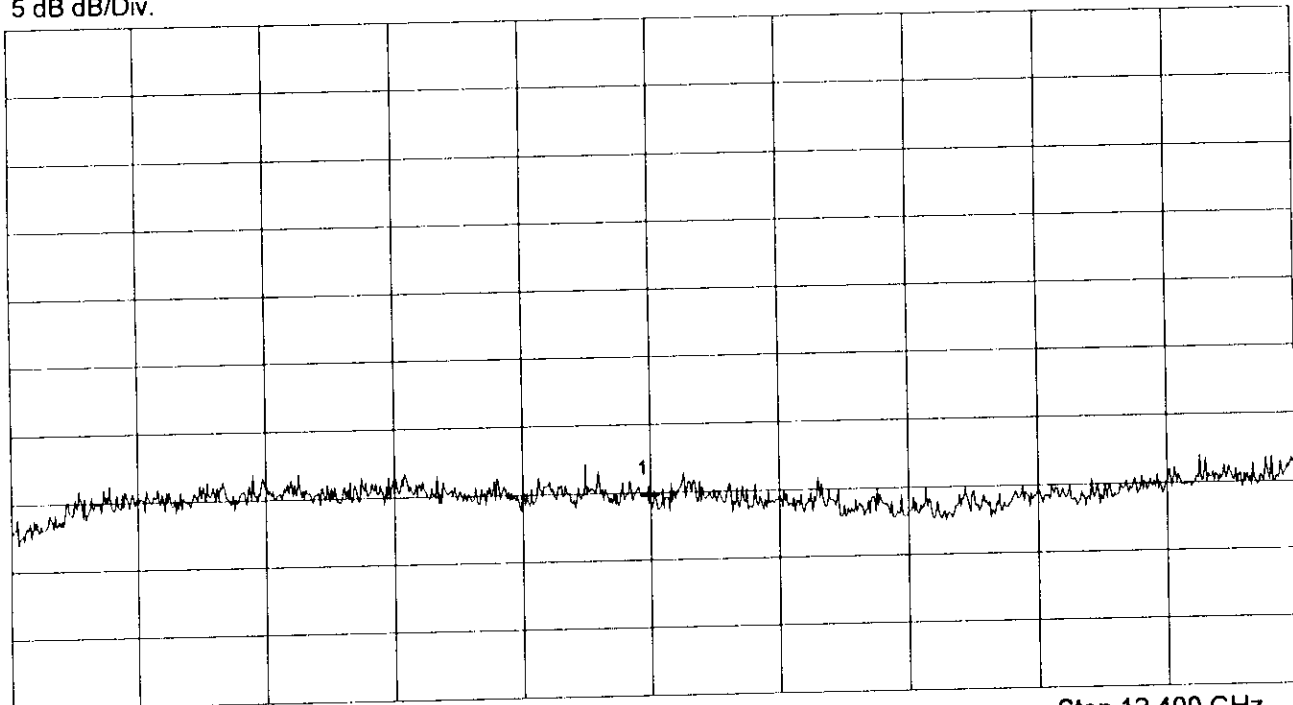
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

- Nr.1
- Nr.2
- Nr.3
- Nr.4
- Nr.5
- Nr.6
- Nr.7
- Nr.8

10.295333 GHz

6.81 dB $\mu$ V

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

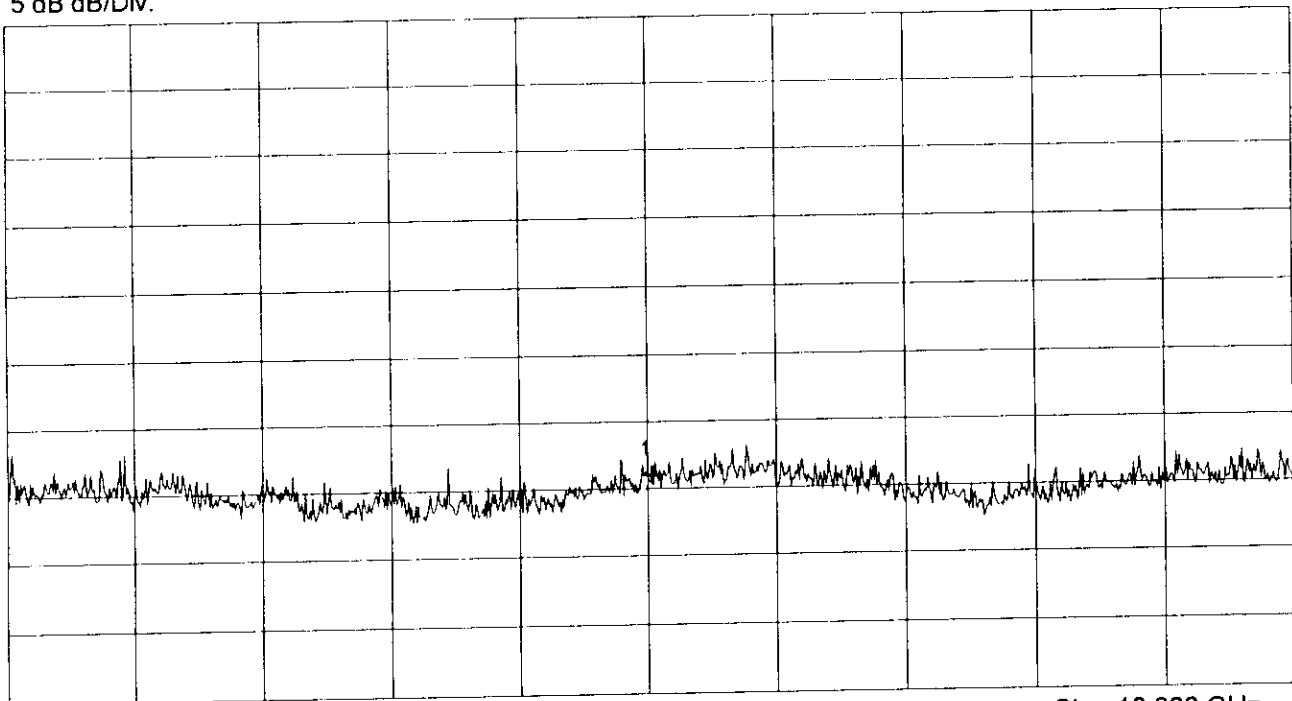
RX Mode, Channel 27 (2466.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Amplitude (dB $\mu$ V) |
|------|-----------------|------------------------|
| Nr.1 | 15.218667 GHz   | 7.98 dB $\mu$ V        |
| Nr.2 |                 |                        |
| Nr.3 |                 |                        |
| Nr.4 |                 |                        |
| Nr.5 |                 |                        |
| Nr.6 |                 |                        |
| Nr.7 |                 |                        |
| Nr.8 |                 |                        |

Tested by:  
Johann Roidt

Project-No.:

Date:

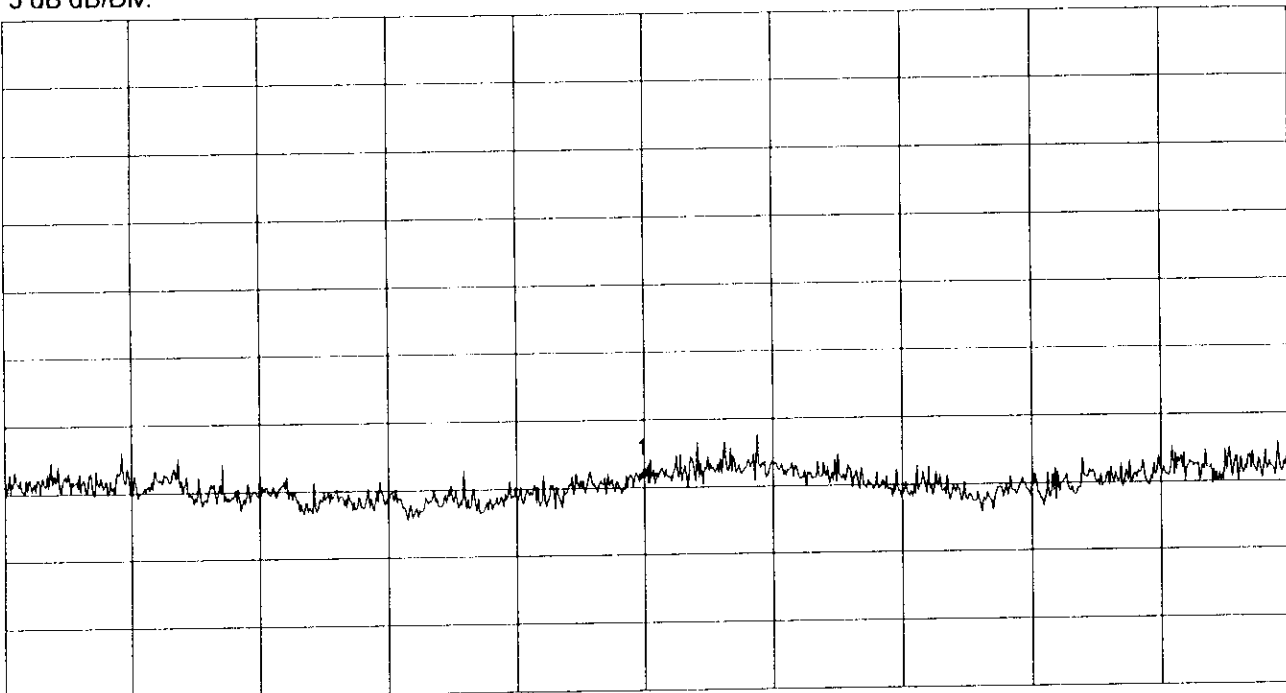
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 27 (2466.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

|                        |               |                 |
|------------------------|---------------|-----------------|
| **** Multi Marker **** |               |                 |
|                        | -----         |                 |
| Nr.1                   | 15.218667 GHz | 7.96 dB $\mu$ V |
| Nr.2                   |               |                 |
| Nr.3                   |               |                 |
| Nr.4                   |               |                 |
| Nr.5                   |               |                 |
| Nr.6                   |               |                 |
| Nr.7                   |               |                 |
| Nr.8                   |               |                 |

|                                   |              |
|-----------------------------------|--------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.: |
|-----------------------------------|--------------|

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

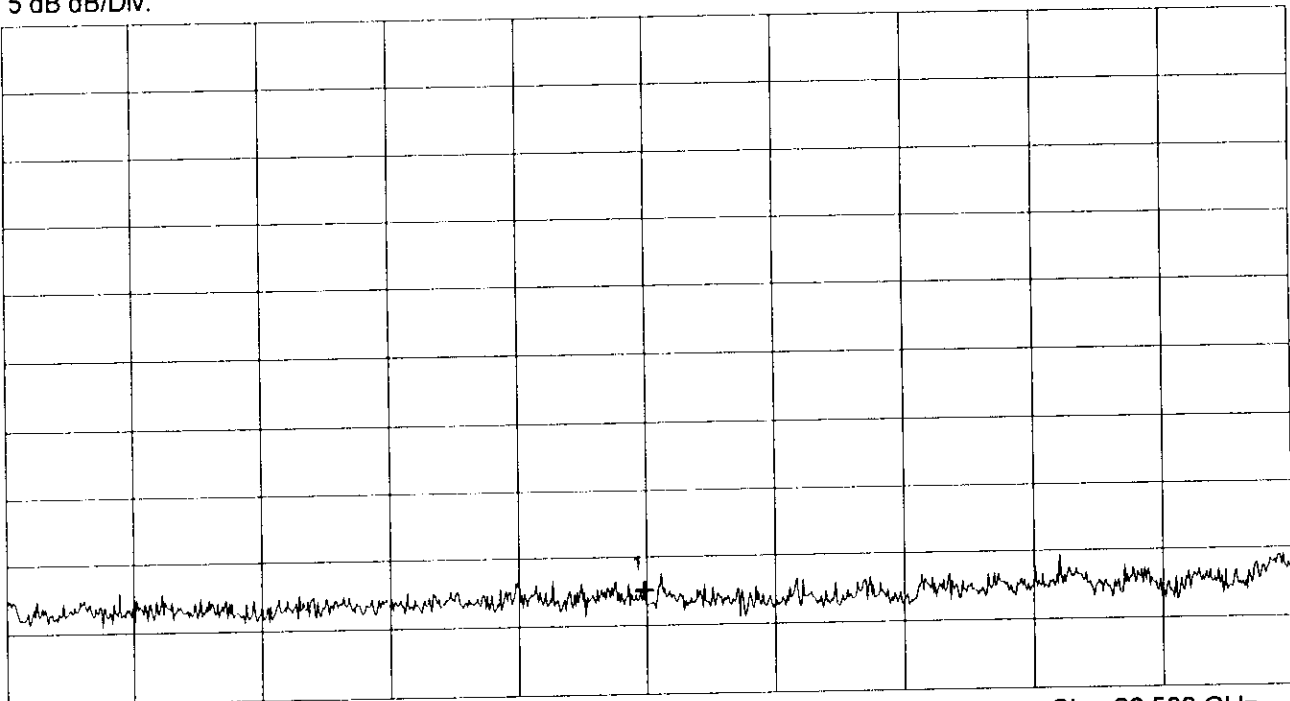
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 27 (2466.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

| Nr.  | Frequency (GHz) | Power (dB $\mu$ V) |
|------|-----------------|--------------------|
| Nr.1 | 22.231111 GHz   | 19.48 dB $\mu$ V   |
| Nr.2 |                 |                    |
| Nr.3 |                 |                    |
| Nr.4 |                 |                    |
| Nr.5 |                 |                    |
| Nr.6 |                 |                    |
| Nr.7 |                 |                    |
| Nr.8 |                 |                    |

Tested by:  
Johann Roidt

Project-No.:

Date:

Page 1 of 1

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

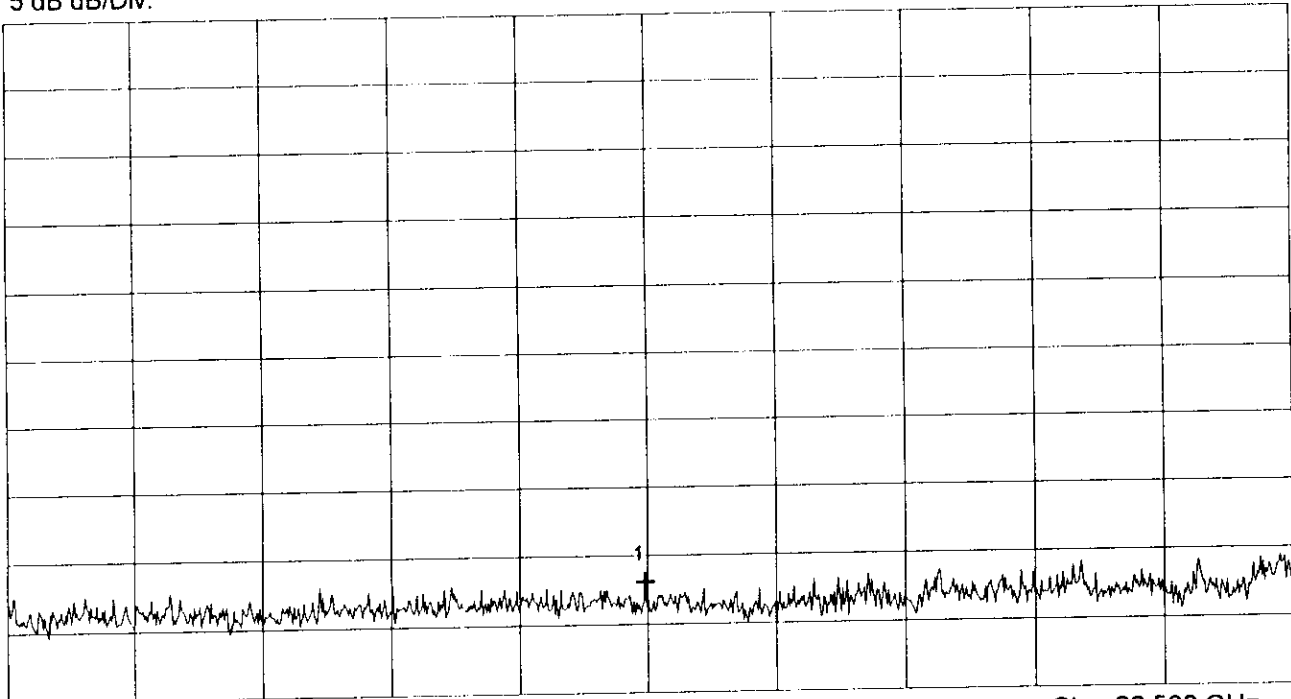
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 27 (2466.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref.Level 62 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
| Nr.1 | 22.231111 GHz | 20.09 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

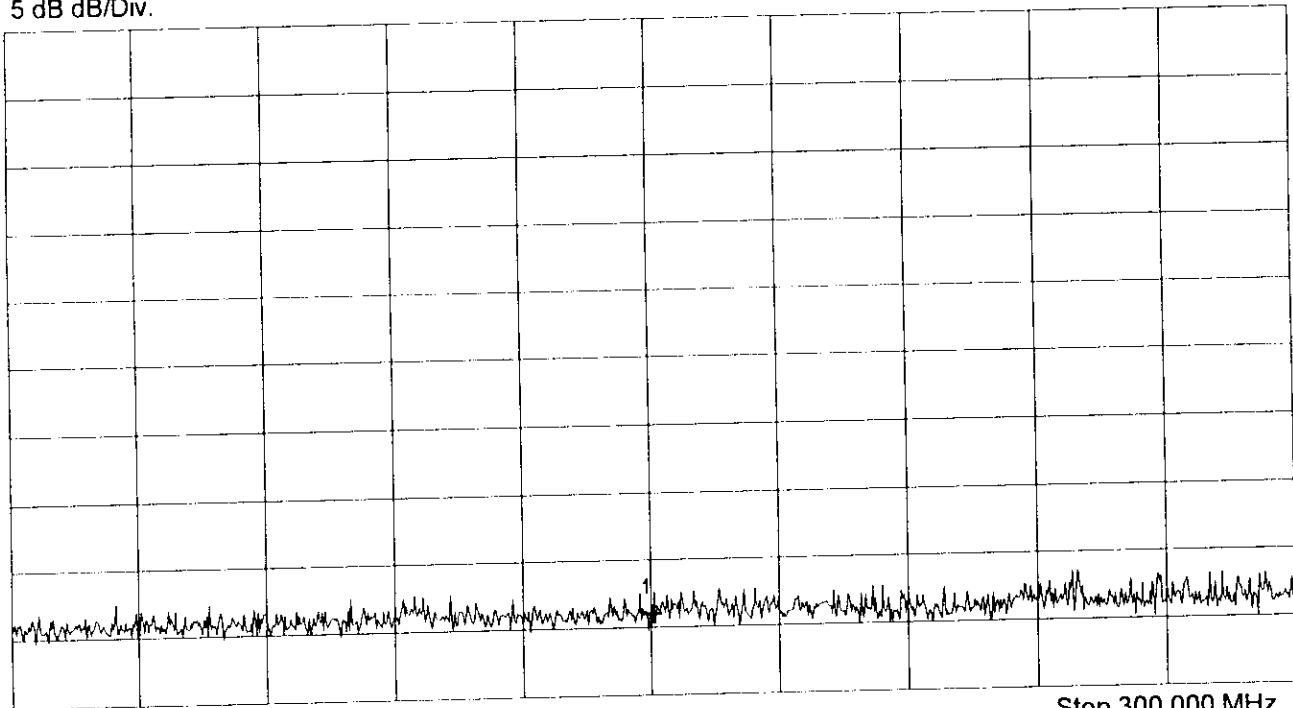
Mode:  
Supply voltage 5 V DC

RX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 2.96 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

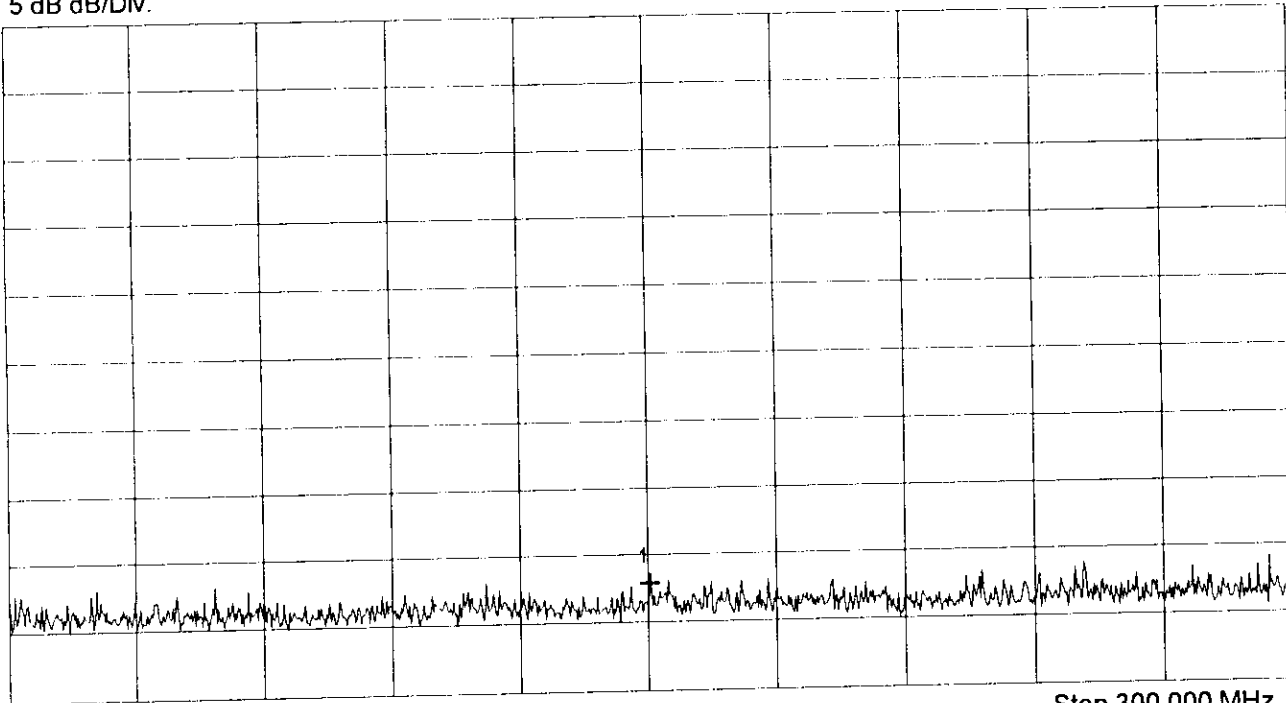
Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

|                              |  |
|------------------------------|--|
| Model:<br><b>SRIF Module</b> | Mode:<br>Supply voltage 5 V DC             |
| Serial No.:<br>Sample No. 1  | RX mode, channel 21 (2451.5 MHz)           |
| Applicant:<br>Siemens AG     | Test distance 3 m<br>Vertical polarization |
|                              |  |
|                              |  |
|                              |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 30.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 300.000 MHz  
SWP 100 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 165.300000 MHz | 4.88 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

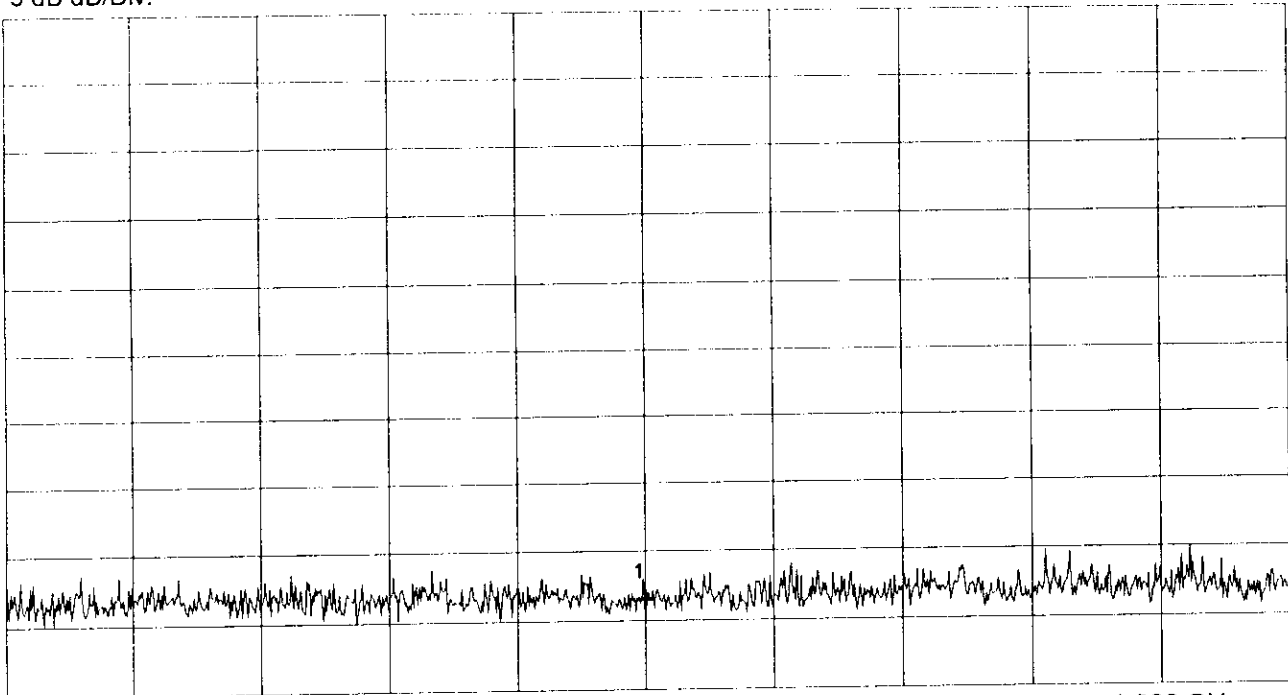
Page of pages

# Radiated Emissions Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply voltage 5 V DC               |
| Serial No.:<br>Sample No. 1 | RX mode, channel 21 (2451.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Horizontal polarization |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

|                        |                |                 |
|------------------------|----------------|-----------------|
| **** Multi Marker **** |                |                 |
| Nr.1                   | 650.000000 MHz | 3.48 dB $\mu$ V |
| Nr.2                   |                |                 |
| Nr.3                   |                |                 |
| Nr.4                   |                |                 |
| Nr.5                   |                |                 |
| Nr.6                   |                |                 |
| Nr.7                   |                |                 |
| Nr.8                   |                |                 |

Tested by:  
Johann Roidt

Project-No.:



# Radiated Emissions Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

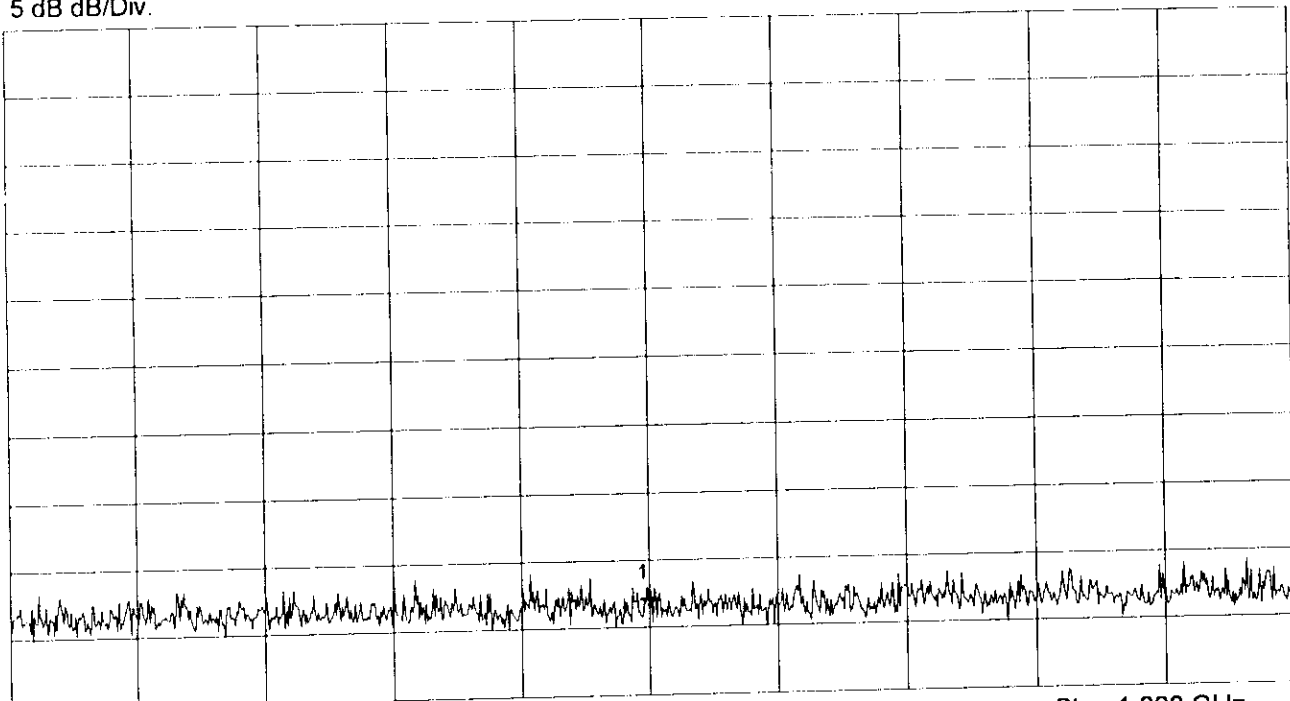
Mode:  
Supply voltage 5 V DC

RX mode, channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical polarization

Ref.Level 47 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 300.000 MHz  
RBW 100 kHz

VBW 1 MHz

Stop 1.000 GHz  
SWP 220 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |                |                 |
|------|----------------|-----------------|
| Nr.1 | 650.000000 MHz | 4.09 dB $\mu$ V |
| Nr.2 |                |                 |
| Nr.3 |                |                 |
| Nr.4 |                |                 |
| Nr.5 |                |                 |
| Nr.6 |                |                 |
| Nr.7 |                |                 |
| Nr.8 |                |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

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# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply voltage 5 V DC

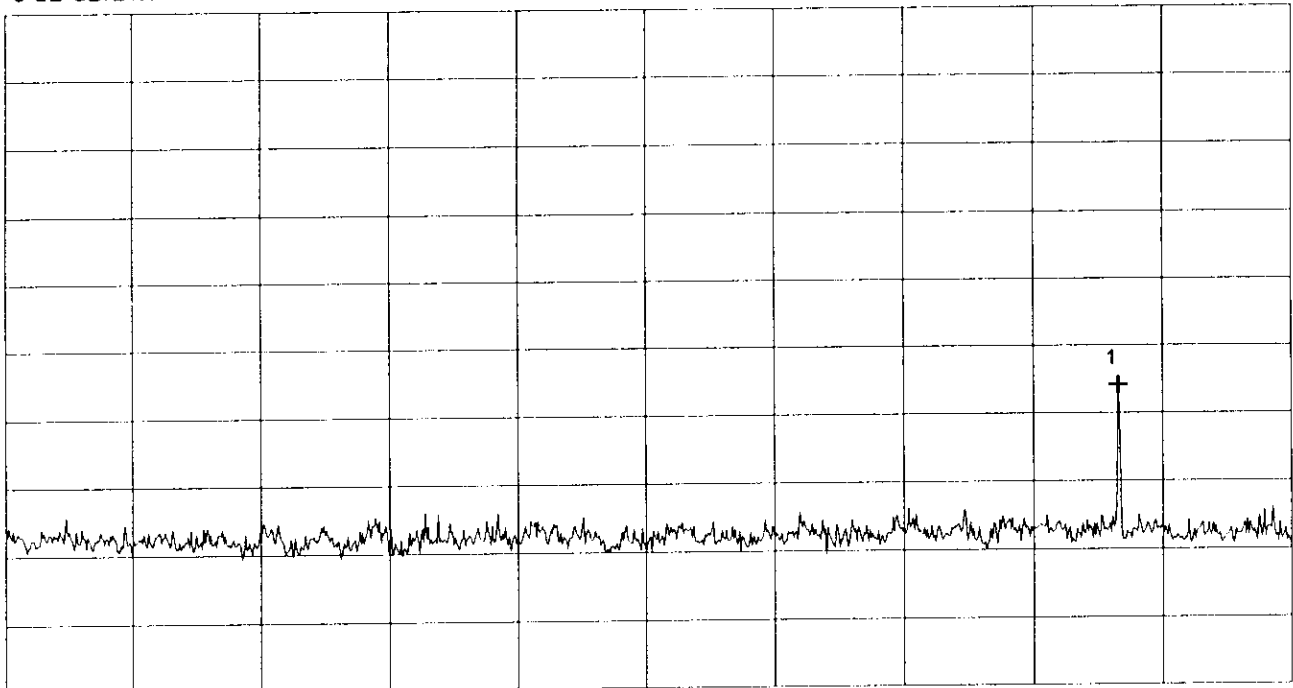
RX Mode Channel 21 (2451.5 MHz)

Test distance 3m  
Vertical polarization

Ref. Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                  |
|------|--------------|------------------|
| Nr.1 | 2.384889 GHz | 18.52 dB $\mu$ V |
| Nr.2 |              |                  |
| Nr.3 |              |                  |
| Nr.4 |              |                  |
| Nr.5 |              |                  |
| Nr.6 |              |                  |
| Nr.7 |              |                  |
| Nr.8 |              |                  |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

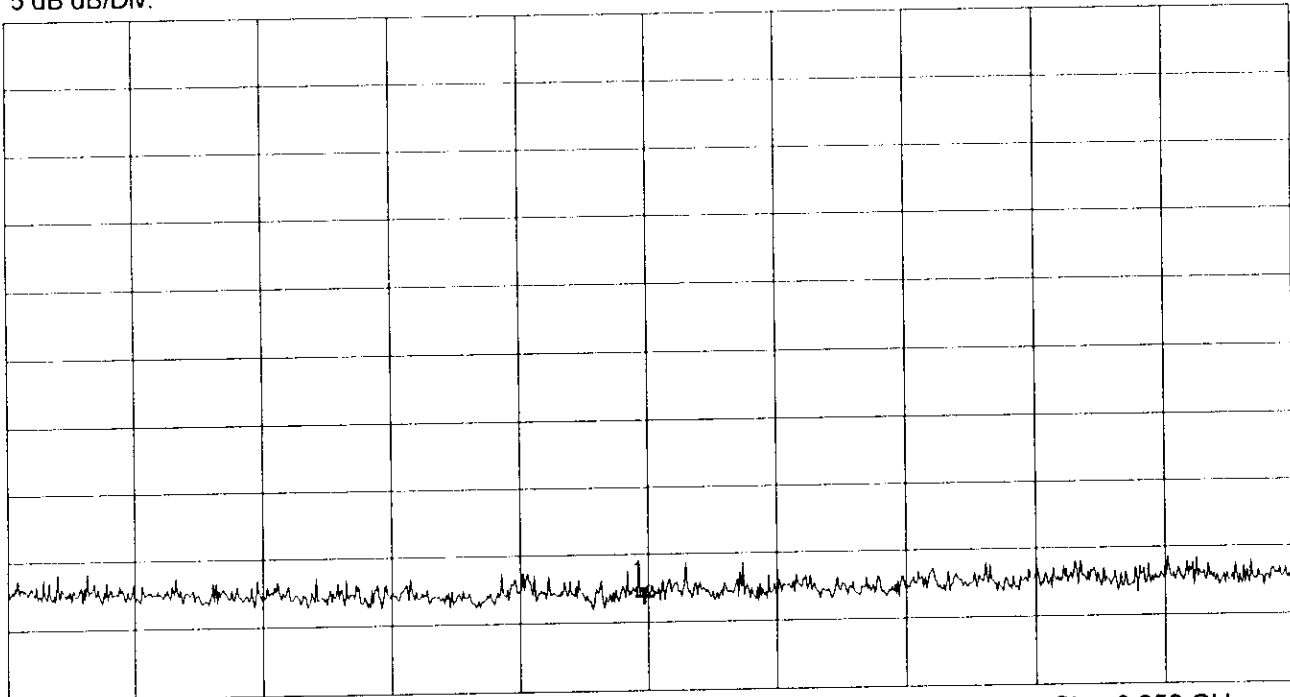
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref. Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|  |                       |                 |
|--|-----------------------|-----------------|
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br>3.270500 GHz | 3.40 dB $\mu$ V |
|--|-----------------------|-----------------|

Tested by:  
Johann Roidt

Project-No.:

Date:

Page 1 of 1 pages

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

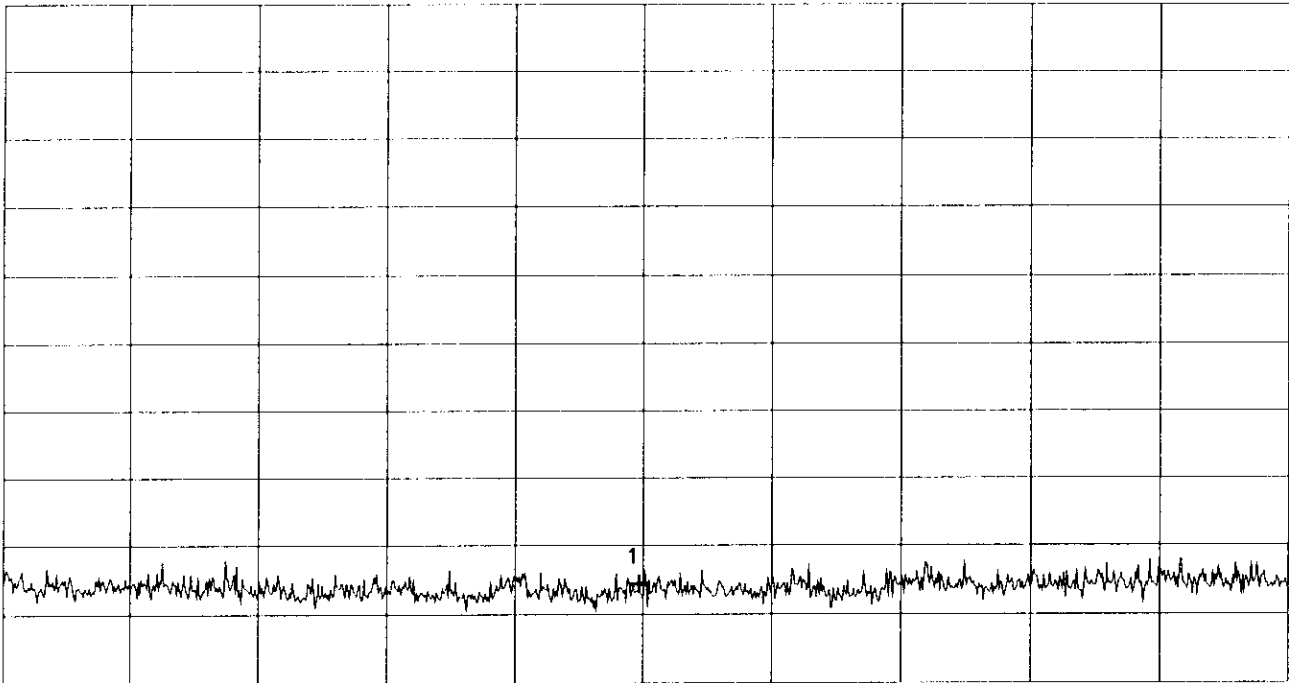
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
|      | -----        |                 |
| Nr.1 | 3.270500 GHz | 3.70 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

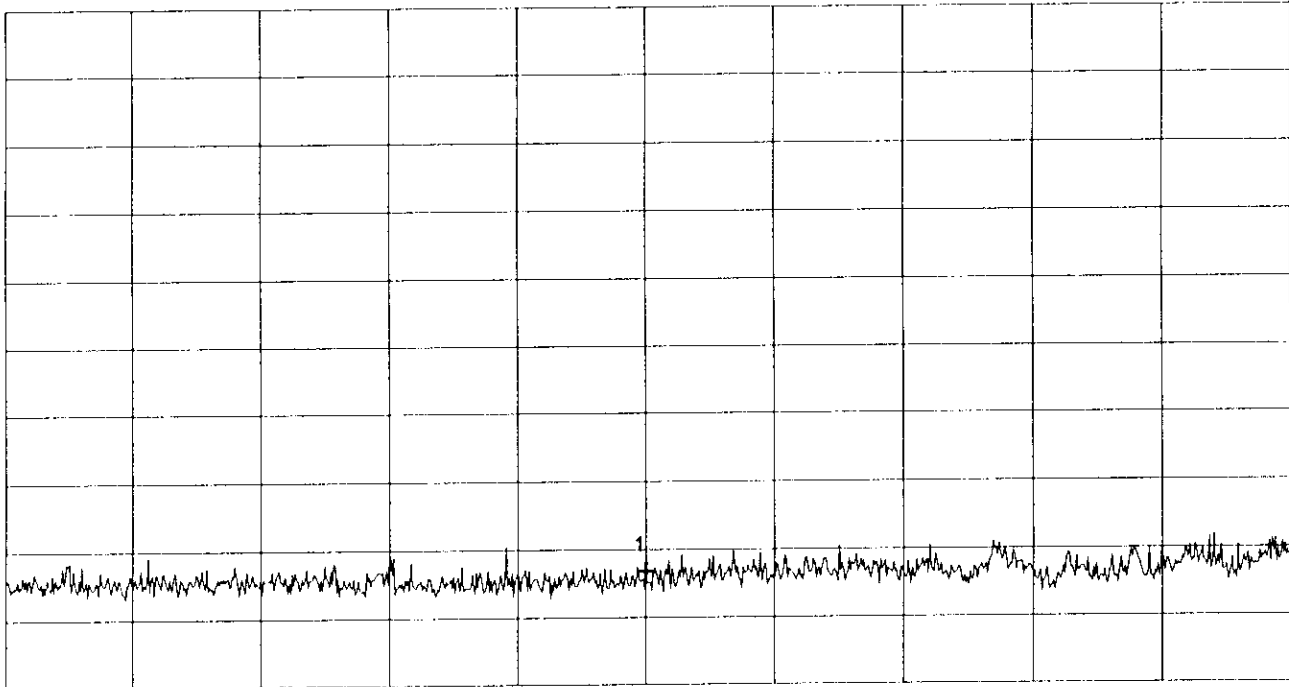
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 4.900000 GHz | 4.86 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

Date:

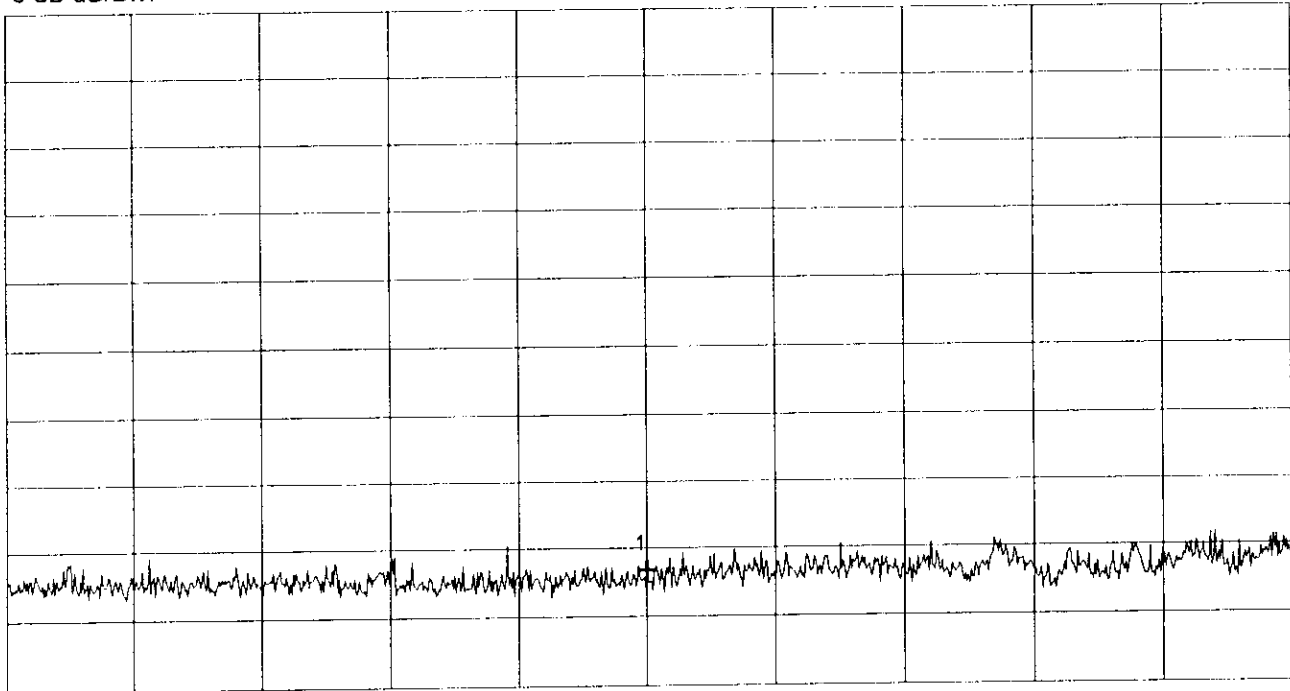
# Radiated Emission Measurement acc. to FCC Rules

|                             |  |
|-----------------------------|--|
| Model:<br>SRIF Module       | Mode:<br>Supply Voltage 5 V DC               |
| Serial No.:<br>Sample No. 1 | RX Mode, Channel 21 (2451.5 MHz)             |
| Applicant:<br>Siemens AG    | Test distance 3 m<br>Horizontal Polarization |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 5.850 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 4.900000 GHz | 4.86 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

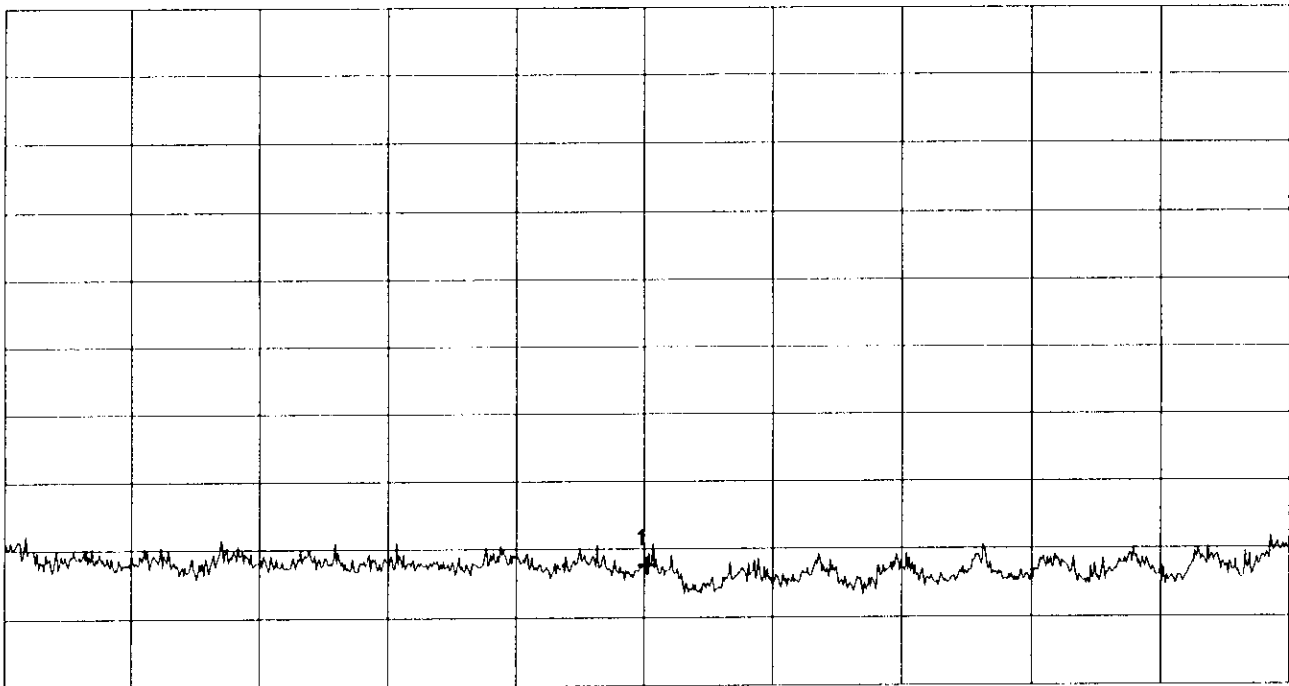
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 21 (2451.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
|      | -----        |                 |
| Nr.1 | 7.030222 GHz | 5.27 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

|                                   |              |
|-----------------------------------|--------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.: |
|-----------------------------------|--------------|



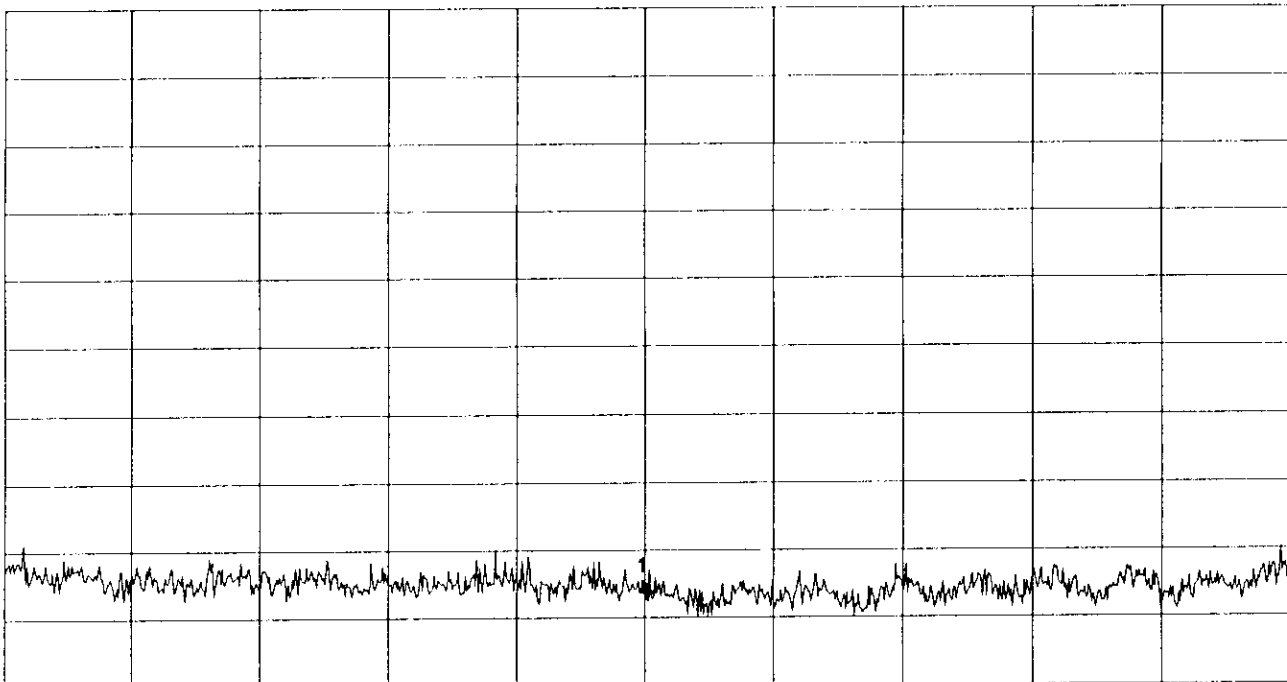
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                    |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 21 (2451.5 MHz)</b>                  |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Vertical Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 46.5 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 5.850 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 8.200 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|  |                              |                                 |
|--|------------------------------|---------------------------------|
| Nr.1<br>Nr.2<br>Nr.3<br>Nr.4<br>Nr.5<br>Nr.6<br>Nr.7<br>Nr.8 | -----<br><b>7.030222 GHz</b> | <b>3.35 dB<math>\mu</math>V</b> |
|--|------------------------------|---------------------------------|

|                                   |              |
|-----------------------------------|--------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.: |
| Date:                             |              |

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

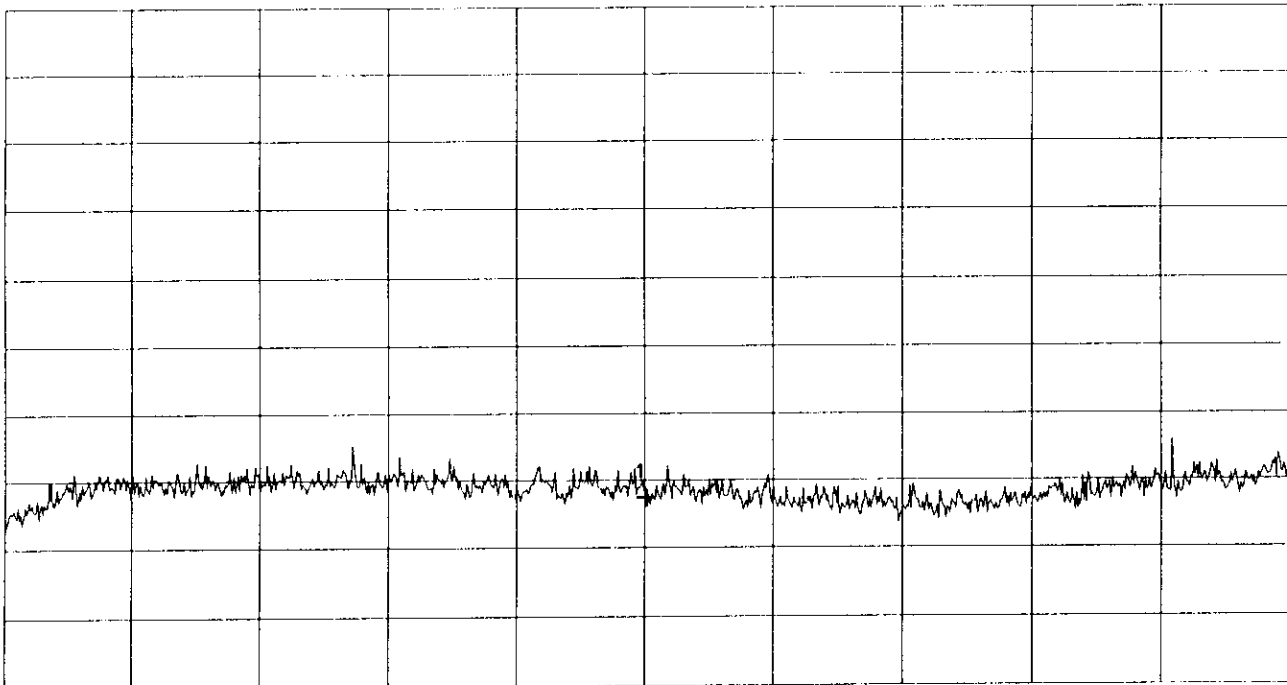
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
| Nr.1 | 10.304667 GHz | 5.63 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

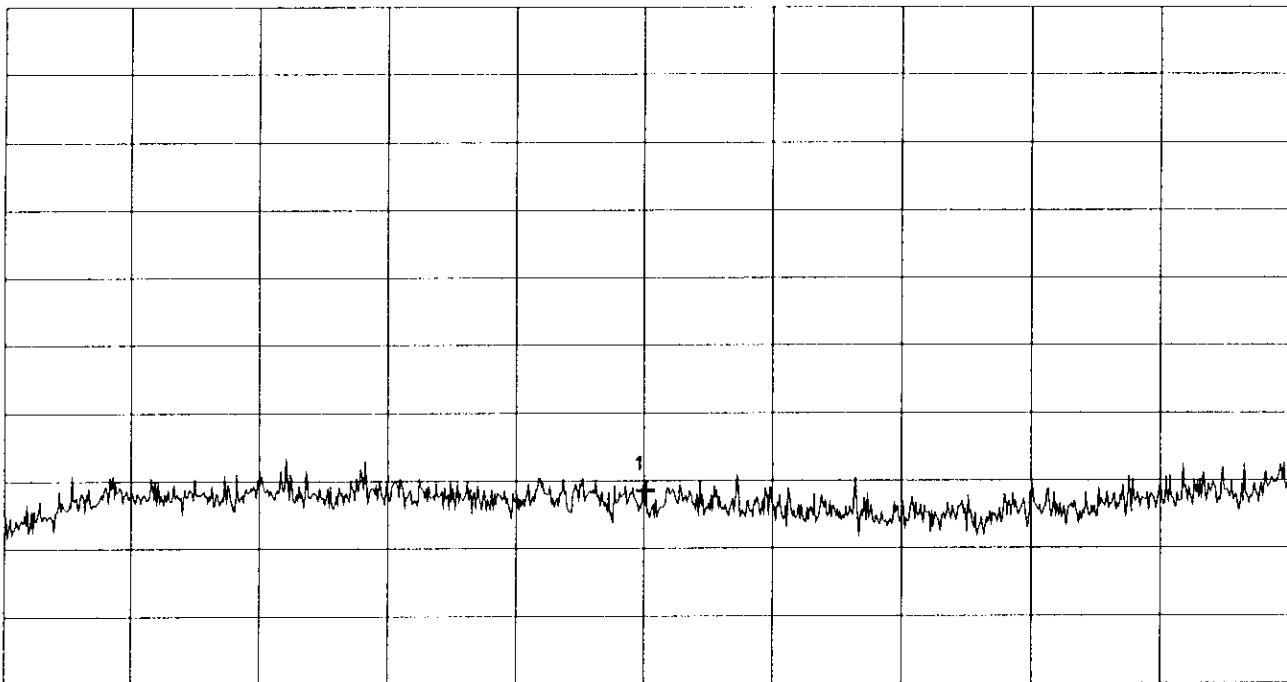
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Horizontal Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 8.200 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 12.400 GHz  
SWP 20 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 10.304667 GHz | 6.25 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

Tested by:  
Johann Roidt

Project-No.:

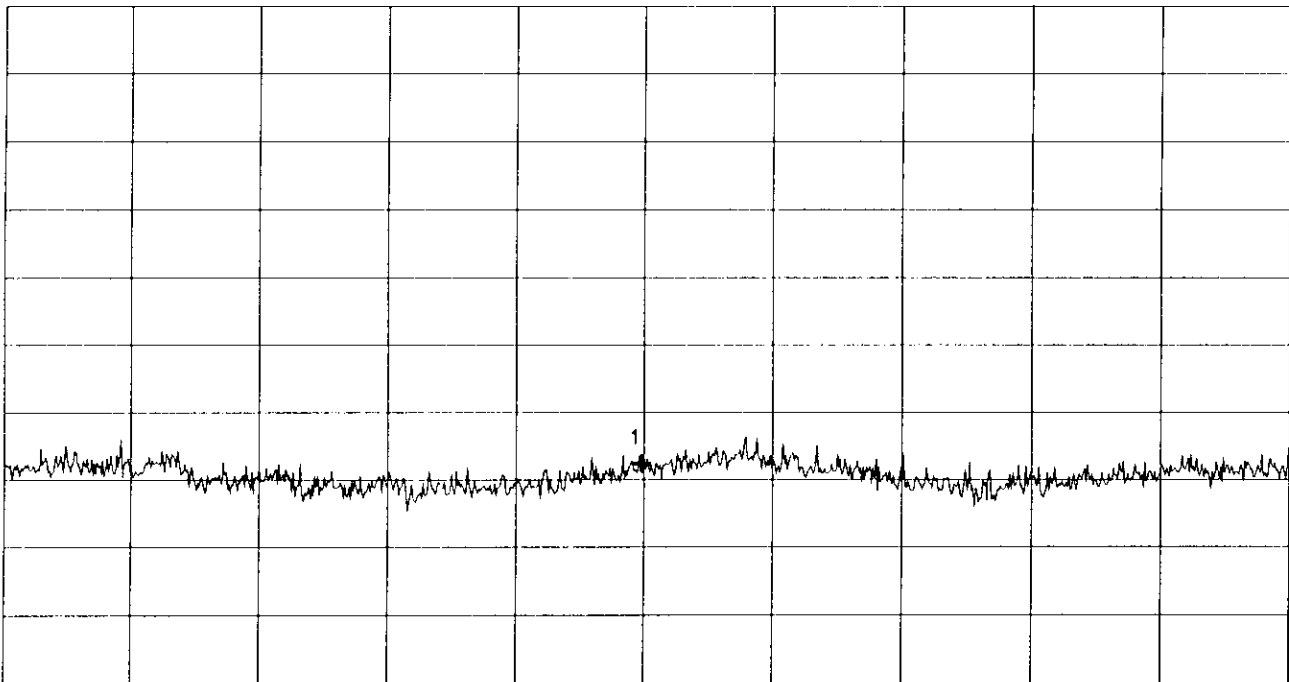
# Radiated Emission Measurement acc. to FCC Rules

|                                    |  |
|------------------------------------|--|
| Model:<br><b>SRIF Module</b>       | Mode:<br><b>Supply Voltage 5 V DC</b>                      |
| Serial No.:<br><b>Sample No. 1</b> | <b>RX Mode, Channel 21 (2451.5 MHz)</b>                    |
| Applicant:<br><b>Siemens AG</b>    | <b>Test distance 3 m</b><br><b>Horizontal Polarization</b> |
|                                    |  |
|                                    |  |
|                                    |  |

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                 |
|------|---------------|-----------------|
|      | -----         |                 |
| Nr.1 | 15.187556 GHz | 8.17 dB $\mu$ V |
| Nr.2 |               |                 |
| Nr.3 |               |                 |
| Nr.4 |               |                 |
| Nr.5 |               |                 |
| Nr.6 |               |                 |
| Nr.7 |               |                 |
| Nr.8 |               |                 |

|                                   |              |
|-----------------------------------|--------------|
| Tested by:<br><b>Johann Roidt</b> | Project-No.: |
| Date:                             |              |

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

Mode:  
Supply Voltage 5 V DC

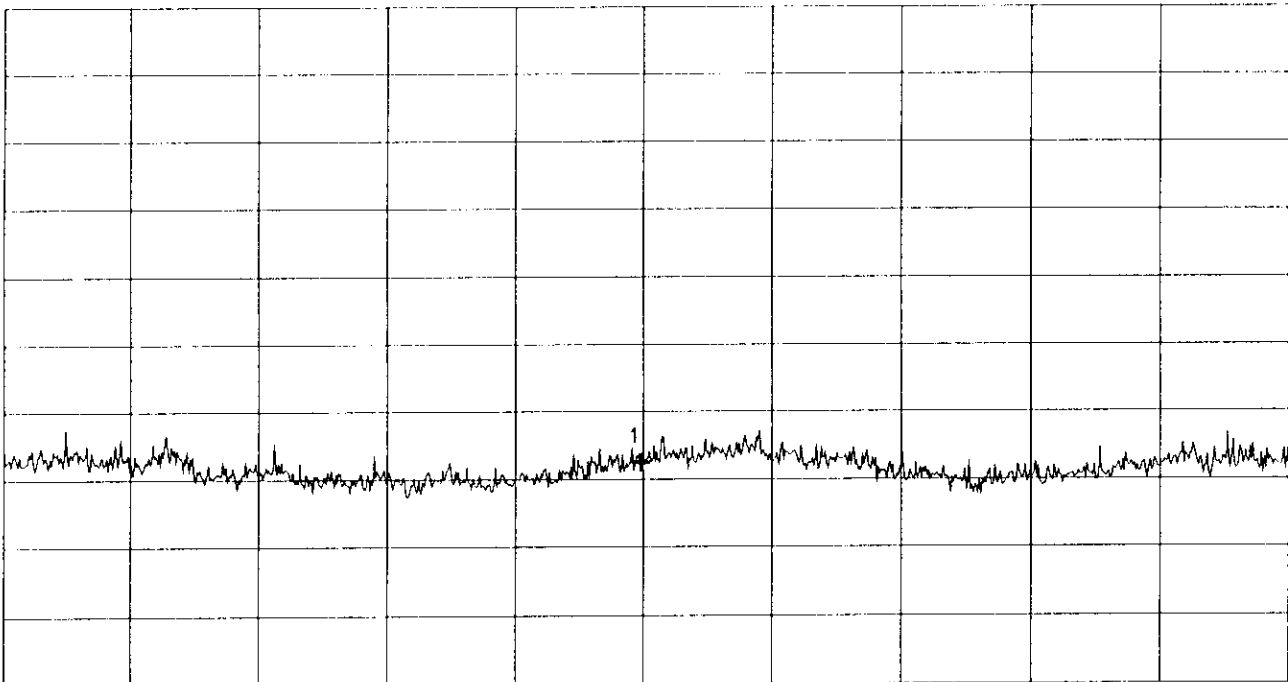
RX Mode, Channel 21 (2451.5 MHz)

Test distance 3 m  
Vertical Polarization

Ref.Level 42 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB

Ref. Offset -35 dB



Start 12.400 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 18.000 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |              |                 |
|------|--------------|-----------------|
| Nr.1 | 15.18756 GHz | 8.22 dB $\mu$ V |
| Nr.2 |              |                 |
| Nr.3 |              |                 |
| Nr.4 |              |                 |
| Nr.5 |              |                 |
| Nr.6 |              |                 |
| Nr.7 |              |                 |
| Nr.8 |              |                 |

Tested by:  
Johann Roidt

Project-No.:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

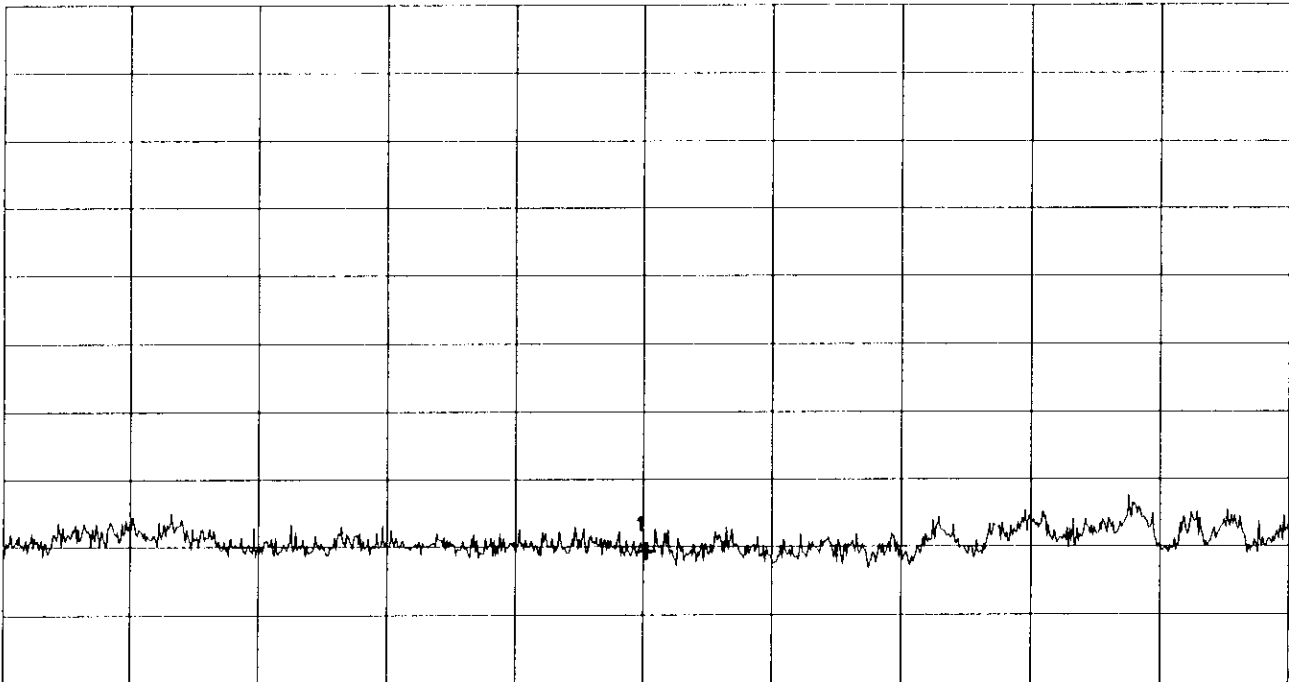
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Vertical Polarization

Ref.Level 67 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
|      | -----         |                  |
| Nr.1 | 22.268889 GHz | 26.62 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

# Radiated Emission Measurement acc. to FCC Rules

Model:  
SRIF Module

Serial No.:  
Sample No. 1

Applicant:  
Siemens AG

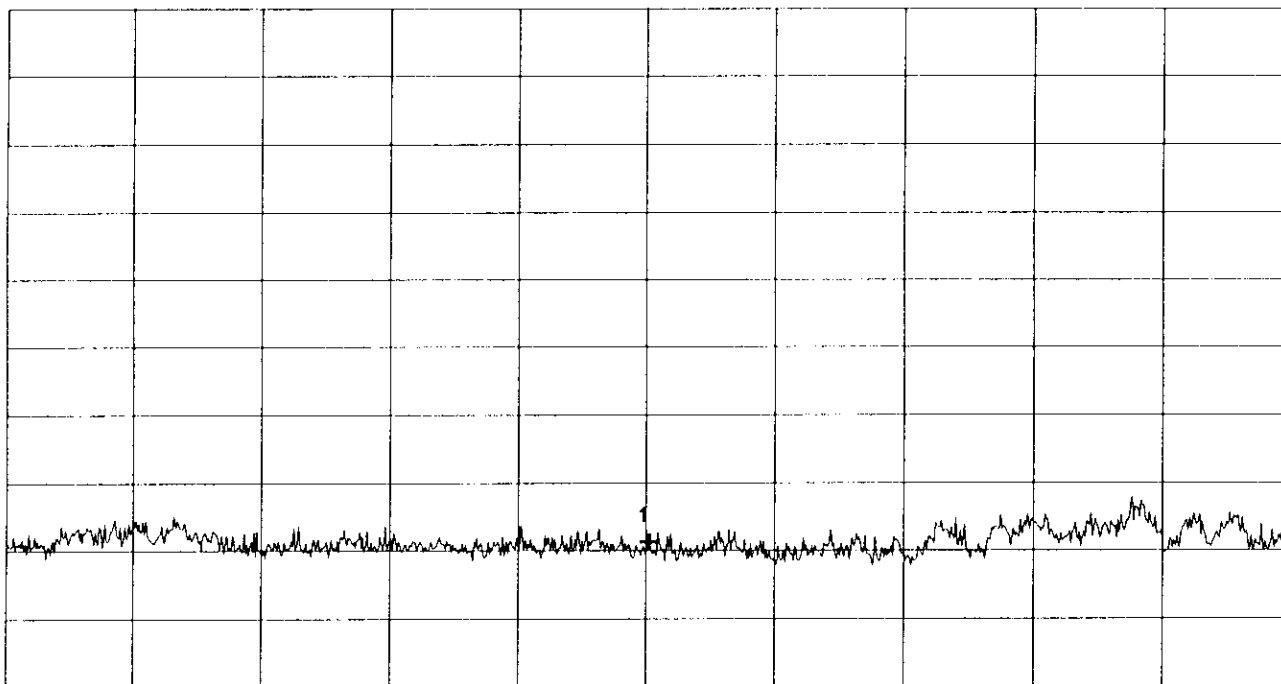
Mode:  
Supply Voltage 5 V DC

RX Mode, Channel 21 (2451.5 MHz)

Test distance 1 m  
Horizontal Polarization

Ref.Level 67 dB $\mu$ V  
5 dB dB/Div.

ATT 0 dB



Start 18.000 GHz  
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz  
SWP 40 ms

\*\*\*\* Multi Marker \*\*\*\*

|      |               |                  |
|------|---------------|------------------|
| Nr.1 | 22.268889 GHz | 27.59 dB $\mu$ V |
| Nr.2 |               |                  |
| Nr.3 |               |                  |
| Nr.4 |               |                  |
| Nr.5 |               |                  |
| Nr.6 |               |                  |
| Nr.7 |               |                  |
| Nr.8 |               |                  |

Tested by:  
Johann Roidt

Project-No.:

Date:

## 6. Photographs Taken During Testing

