

Straubing, June 22, 2007

TEST-REPORT

No. 55456-070374-2 (Edition 2)

for

i-B2M Type S/NA

Active Transponder Tag

Applicant: IDENTEC SOLUTIONS AG

Test Specifications: FCC Code of Federal Regulations,

CFR 47, Part 15,

Sections 15.205, 15.207, 15.215 and 15.249

Industry Canada Radio Standards

Specifications

RSS-Gen Issue 1, Sections 7.2.2 and RSS-210 Issue 6, Sections 2.2, A2.9

(Category I Equipment)

Note:

The test data of this report is related 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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Additional parts/accessories:



1 Description of the Equipment Under Test (EUT)

Type designation¹:

i-B2M
Type S/NA

Parts²:

Serial number(s):

Manufacturer:

IDENTEC SOLUTIONS AG

Type of equipment:

Active Transponder Tag

Version:

FCC ID:

i-B2M
Type S/NA

i-B2M
Type S/NA

Active Transponder Tag

Active Transponder Tag

OO4-ILR-IB2NA

Technical data of EUT Application frequency range: 902 - 928 MHz Frequency range: 916 MHz Operating frequency: Type of modulation: **ASK** Pulse train: 100 ms Pulse width: 8.3 ms Number of RF-channels: 1 Channel spacing: Not applicable 200KA1D Designation of emissions³: Type of antenna: Integrated Size/length of antenna: 4 x 10 mm □ not detachable Connection of antenna: detachable Type of power supply: Battery supply Specifications for power supply: nominal voltage: 3.00 V

¹ Type designation of the system if EUT consists of more than one part.

² Type designations of the parts of the system, if applicable.

³ Also known as "Class of Emission".



2 Administrative Data

Applicant (full address): IDENTEC SOLUTIONS AG

Millenniumspark 2 A-6890 Lustenau

Contact person: Mr. Gantner Reinhold

Contract identification:

Application details

Receipt of EUT: May 3, 2007
Date(s) of test: May 2007

Note(s):

Report details

Report number: 55456-070374-2

Edition: 2

Issue date: June 22, 2007



3 Identification of the Test Laboratory

Details of the Test Laboratory

Company name: Senton GmbH EMI/EMC Test Center

Address: Aeussere Fruehlingstrasse 45

D-94315 Straubing

Germany

Laboratory accreditation: DAR-Registration No. DAT-P-171/94-02

FCC test site registration number 90926 Industry Canada test site registration: IC 3050

Contact person: Mr. Johann Roidt

Phone: (+49) (0)9421 5522-0 Fax: (+49) (0)9421 5522-99



4 Summary

Summary of test results

The tested sample complies with the requirements set forth in the

Code of Federal Regulations CFR 47, Part 15, Sections 15.205, 15.215 and 15.249

of the Federal Communication Commission (FCC) and the

Radio Standards Specifications RSS-210 Issue 6, Sections 2.2, 2.6, A2.9 (Category I Equipment)

of Industry Canada (IC).

| Personnel involved in this report | |
|-----------------------------------|--------------------|
| Laboratory Manager: | |
| | He Col |
| | Mr. Johann Roidt |
| Responsible for testing: | |
| | Skinell Martin |
| | Mr. Martin Steindl |
| Responsible for test report: | Mr. Martin Steindl |



5 Operation Mode and Configuration of EUT

Operation Mode

Transmitting continuously with modulation.

Configuration of EUT

The EUT was configured as stand alone device.

The EUT was measured as handheld device in three positions.

| List | List of ports and cables | | | | | |
|------|--------------------------|-----------------------------|------------|--------------|--|--|
| Port | Description | Classification ⁴ | Cable type | Cable length | | |
| | Not Applicable | | | | | |

| List | List of devices connected to EUT | | | | | |
|------|----------------------------------|------------------|------------------|--------------|--|--|
| Item | Description | Type Designation | Serial no. or ID | Manufacturer | | |
| | Not Applicable | | | | | |

| List of support devices | | | | | |
|----------------------------------|------------------|------------------|--------------|--|--|
| Item Description Not Applicable | Type Designation | Serial no. or ID | Manufacturer | | |

_

⁴ Ports shall be classified as ac power, dc power or signal/control port



6 Measurement Procedures

6.1 Bandwidth Measurements

| Measurement Procedure: | | | | |
|---------------------------|---|--|--|--|
| Rules and specifications: | CFR 47 Part 2, section 2.202(a) CFR 47 Part 15, section 15.215(c) IC RSS-Gen Issue 1, sections 4.4.1 and 4.4.2 IC RSS-210 Issue 6, section A1.1.3 ANSI C63.4, annex H.6 | | | |
| Guide: | ANSI C63.4 / IC RSS-Gen Issue 1, sections 4.4.1 and 4.4.2 | | | |
| Measurement setup: | ☐ Conducted: See below ☐ Radiated: Radiated Emission in Fully or Semi Anechoic Room (6.3) | | | |

If antenna is detachable bandwidth measurements shall be performed at the antenna connector (conducted measurement) when the transmitter is adjusted in accordance with the tune-up procedure, if applicable. The RF output terminals are connected to a spectrum analyzer. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as dc block and appropriate attenuators (50 Ohms). The electrical characteristics of the radio frequency load attached to the output terminals shall be stated, if applicable.

If radiated measurements are performed the same test setups and instruments are used as with radiated emission measurements for the appropriate frequency range.

The analyzer settings are specified by the test description of the appropriate test record(s).



6.2 Pulse Train Measurement

| Measurement Procedure: | | | | |
|---------------------------|---|--|--|--|
| Rules and specifications: | CFR 47 Part 15, section 15.35(c) IC RSS-Gen Issue 1, section 4.3 | | | |
| Guide: | ANSI C63.4 | | | |
| Measurement setup: | ☐ Conducted: See below (direct connection or via test fixture) ☐ Radiated: Radiated Emission in Fully or Semi Anechoic Room (6.3) | | | |

If antenna is detachable pulse train measurements shall be performed at the antenna connector (conducted measurement). The RF output terminals are connected to a spectrum analyzer or to a diode detector in combination with an oscilloscope. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as dc block and appropriate attenuators (50 Ohms). The electrical characteristics of the radio frequency load attached to the output terminals shall be stated, if applicable.

If antenna is not detachable a test fixture may be used instead of direct connection to RF output terminals. If radiated measurements are performed similar test setups and instruments are used as with radiated emission measurements for the appropriate frequency range. However, the spectrum analyzer may be replaced by a diode detector connected to an oscilloscope.



6.3 Radiated Emission in Fully or Semi Anechoic Room

| Measurement Procedure: | | | | |
|---------------------------|--|--|--|--|
| Rules and specifications: | CFR 47 Part 15, sections 15.215(b) and 15.249 IC RSS-210 Issue 6, section A2.9 | | | |
| Guide: | ANSI C63.4 | | | |

Radiated emission in fully or semi anechoic room is measured in the frequency range from 30 MHz to the maximum frequency as specified in CFR 47 Part 15 section 15.33.

Measurements are made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution as well as video bandwidth set to 100 kHz (below 1 GHz) or 1 MHz (above 1 GHz).

Testing up to 1 GHz is performed with a linear polarized logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna"). For testing above 1 GHz horn antennas are used.

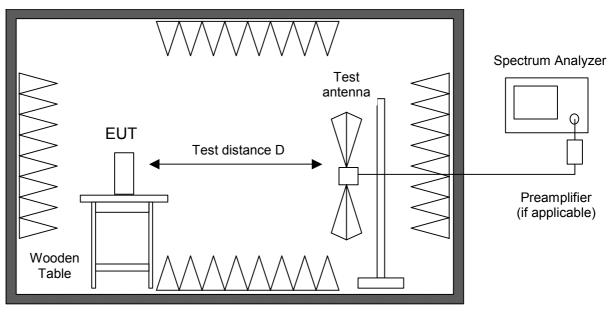
All tests below 18 GHz are performed at a test distance D of 3 meters. For higher frequencies the test distance is reduced (e.g. to 1 meter) due to the sensitivity of the measuring instrument(s) and the test results are calculated according to CFR 47 Part 15 section 15.31(f)(1) using an extrapolation factor of 20 dB/decade. If required, preamplifiers are used for the whole frequency range. Special care is taken to avoid overload, using appropriate attenuators and filters, if necessary.

If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.

Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.

During testing the EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

For final testing below 1 GHz an open field test-site is used and the plots recorded in the fully or semi anechoic room are indicated as prescans.



Fully or semi anechoic room



Test instruments used:

| Used | Туре | Model | Serial No. or ID | Manufacturer |
|-------------|--------------------------|----------------------|--------------------------|--------------------|
| | Spectrum Analyzer | FSP 30 | 100063 | Rohde & Schwarz |
| | Spectrum analyzer | R 3271 | 05050023 | Advantest |
| | EMI test receiver | ESMI | 839379/013 839587/006 | Rohde & Schwarz |
| \boxtimes | Preamplifier | CPA9231A | 3393 | Schaffner |
| | Preamplifier | R14601 | | Advantest |
| \boxtimes | Preamplifier 1-8 GHz | AFS3-00100800-32-LN | 847743 | Miteq |
| | Preamplifier 0.5-8 GHz | AMF-4D-005080-25-13P | 860149 | Miteq |
| \boxtimes | Preamplifier 8-18 GHz | ACO/180-3530 | 32641 | CTT |
| | External Mixer | WM782A | 845881/005 | Tektronix |
| | Harmonic Mixer | FS-Z30 | 843389/007 | Rohde & Schwarz |
| | Accessories | | | |
| | Trilog broadband antenna | VULB 9163 | 9163-188 | Schwarzbeck |
| | Horn antenna | 3115 | 9508-4553 | EMCO |
| | Horn antenna | 3160-03 | 9112-1003 | EMCO |
| | Horn antenna | 3160-04 | 9112-1001 | EMCO |
| \boxtimes | Horn antenna | 3160-05 | 9112-1001 | EMCO |
| \boxtimes | Horn antenna | 3160-06 | 9112-1001 | EMCO |
| \boxtimes | Horn antenna | 3160-07 | 9112-1008 | EMCO |
| | Horn antenna | 3160-08 | 9112-1002 | EMCO |
| | Horn antenna | 3160-09 | 9403-1025 | EMCO |
| | Horn antenna | 3160-10 | 399185 | EMCO |
| \boxtimes | Fully anechoic room | No. 2 | 1452 | Albatross Projects |
| | Semi-anechoic room | No. 3 | 1453 | Siemens |



6.4 Radiated Emission at Open Field Test Site

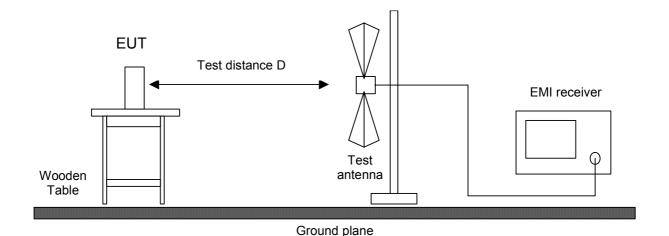
| Measurement Procedure: | | | |
|---------------------------|--|--|--|
| Rules and specifications: | CFR 47 Part 15, sections 15.215(b) and 15.249 IC RSS-210 Issue 6, section A2.9 | | |
| Guide: | ANSI C63.4 | | |

Radiated emission at open field test site is measured in the frequency range 30 MHz to 1 GHz using a biconical antenna up to 300 MHz and a logarithmic periodic antenna above. The measurement bandwidth of the test receiver is set to 120 kHz with guasi-peak detector selected.

If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.

Hand-held or body-worn devices are tested in the position producing the highest emission relative to the limit as verified by prescans in the fully anechoic room. EUT is rotated all around and receiving antenna is raised and lowered within 1 meter to 4 meters to find the maximum levels of emission. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

For measuring emissions of intentional radiators and receivers a test distance D of 3 meters is selected. Testing of unintentional radiators is performed at a distance of 10 meters. If limits specified for 3 meters shall be used for measurements performed at 10 meters distance the limits are calculated according to CFR 47 Part 15 section 15.31(d) and (f)(1) using an inverse linear-distance extrapolation factor of 20 dB/decade.



Test instruments used:

| Used | Туре | | Model | Serial No. or ID | Manufacturer |
|-------------|----------------------|------|--------|------------------|-----------------|
| \boxtimes | EMI receiver | | ESVP | 881120/024 | Rohde & Schwarz |
| \boxtimes | Biconical antenna | EG 1 | HK 116 | 842204/001 | Rohde & Schwarz |
| \boxtimes | Log. per. antenna | EG 1 | HL 223 | 841516/023 | Rohde & Schwarz |
| \boxtimes | Open field test site | | EG 1 | 1450 | Senton |



7 Photographs Taken During Testing



Test setup for radiated emission measurement (fully anechoic room)







Test setup for radiated emission measurement (fully anechoic room) - continued -









































8 Test Results

| FCC CFR 47 Parts 2 and 15 | | | | |
|----------------------------------|--|------|----------------|--|
| Section(s) | Test | Page | Result | |
| 2.1046(a) | Conducted output power | | Not applicable | |
| 2.202(a) | Occupied bandwidth | 24 | Recorded | |
| 15.215(c) | Bandwidth of the emission | 28 | Test passed | |
| 2.201, 2.202 | Class of emission | 30 | Calculated | |
| 15.35(c) | Pulse train measurement for pulsed operation | 31 | Recorded | |
| 15.205(a) | Restricted bands of operation | 34 | Test passed | |
| 15.207 | Conducted AC powerline emission 150 kHz to 30 MHz | | Not applicable | |
| 15.205(b) 15.249 | Radiated emission 9 kHz to 30 MHz | 36 | Test passed | |
| 15.205(b) 15.215(b) 15.249 | Radiated emission 30 MHz to 10 GHz | 37 | Test passed | |



| IC RSS-Gen Issue 1 | | | |
|--------------------|--|------|-------------------------------------|
| Section(s) | Test | Page | Result |
| 4.6 | Transmitter output power (conducted) | | Not applicable |
| 4.4.1 | Occupied Bandwidth | 24 | Recorded |
| 3.2(h), 8 | Designation of emissions | 30 | Calculated |
| 4.3 | Pulsed operation | 31 | Recorded |
| 7.2.2 | Transmitter AC power lines conducted emissions 150 kHz to 30 MHz | | Not applicable |
| 5.5 | Exposure of Humans to RF Fields | 38 | Exempted from SAR and RF evaluation |

| IC RSS-210 Issue 6 | | | |
|------------------------|--|------|-------------|
| Section(s) | Test | Page | Result |
| 2.2(a) | Restricted bands and unwanted emission frequencies | 34 | Test passed |
| 2.2(b)(c), 2.6 A2.9 | Unwanted emissions 9 kHz to 30 MHz | 36 | Test passed |
| 2.2(b)(c), 2.6 A2.9 | Unwanted emissions 30 MHz to 10 GHz | 37 | Test passed |



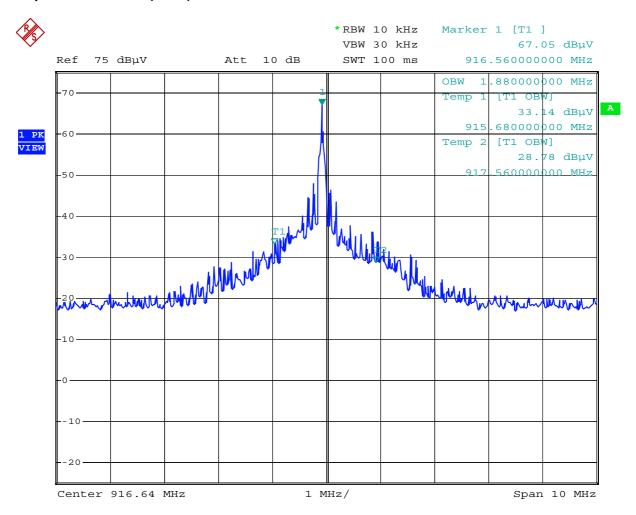
8.1 Occupied Bandwidth

| Rules and specifications: | CFR 47 Part 2, section 2.202(a) ANSI C63.4, annex H.6 | |
|---------------------------|--|--|
| Guide: | ANSI C63.4 | |
| Description: | The occupied bandwidth according to CFR 47 Part 2, section 2.202(a), is measured as the 99% emission bandwidth, i.e. below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission. | |
| | The occupied bandwidth according to as the frequency range defined by the the maximum level of the modulated of | points that are 26 dB down relative to |
| | The resolution bandwidth of the spectrum analyzer shall be set to a value greater than 5.0% of the allowed bandwidth. If no bandwidth specifications are given, the following guidelines are used: | |
| | Fundamental frequency | Minimum resolution bandwidth |
| | 9 kHz to 30 MHz | 1 kHz |
| | 30 MHz to 1000 MHz | 10 kHz |
| | 1000 MHz to 40 GHz | 100 kHz |
| | The video bandwidth shall be at least three times greater than the resolution bandwidth. | |
| Measurement procedure: | Bandwidth Measurements (6.1) | |

| Comment: | |
|---------------|----------------------------------|
| Date of test: | June 8, 2007 |
| Test site: | Fully anechoic room, cabin no. 2 |



Occupied Bandwidth (99 %):



Date: 8.JUN.2007 12:59:39

Occupied Bandwidth (99 %): 1.88 MHz



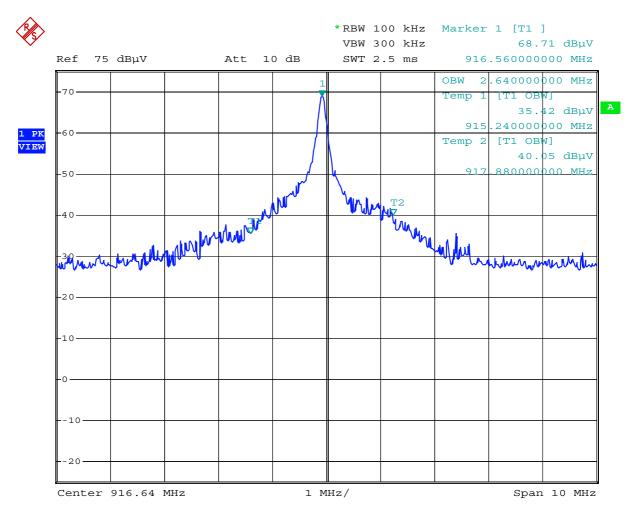
Occupied Bandwidth (continued)

| Rules and specifications: | IC RSS-Gen Issue 1, section 4.4.1 |
|---------------------------|---|
| Guide: | IC RSS-Gen Issue 1, section 4.4.1 |
| Description: | If not specified in the applicable RSS the occupied bandwidth is measuredas the 99% emission bandwidth. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is also recorded. The span between the two recorded frequencies is the occupied bandwidth. |
| Measurement procedure: | Bandwidth Measurements (6.1) |

| Comment: | |
|---------------|----------------------------------|
| Date of test: | June 8, 2007 |
| Test site: | Fully anechoic room, cabin no. 2 |



Occupied Bandwidth (99 %):



Date: 8.JUN.2007 13:01:35

Occupied Bandwidth (99 %): 2.64 MHz

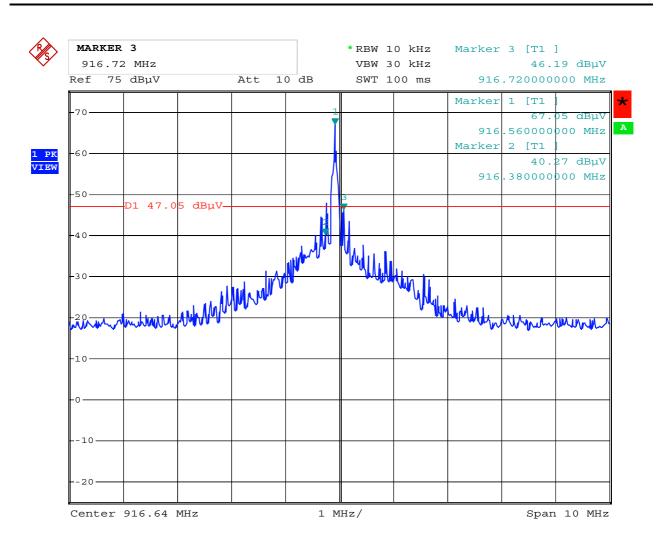


8.2 Bandwidth of the Emission

| Rules and specifications: | CFR 47 Part 15, section 15.215(c) | |
|---------------------------|--|--------------------------------|
| Guide: | ANSI C63.4 | |
| Description: | The 20 dB bandwidth of the emission is measured as the frequency range defined by the points that are 20 dB down relative to the maximum level of the modulated carrier. For intentional radiators operating under the alternative provisions to the general emission limits the requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation. | |
| | The resolution bandwidth of the spec value greater than 5.0% of the allow specifications are given, the following | ed bandwidth. If no bandwidth |
| | Fundamental frequency | Minimum resolution bandwidth |
| | 9 kHz to 30 MHz | 1 kHz |
| | 30 MHz to 1000 MHz | 10 kHz |
| | 1000 MHz to 40 GHz | 100 kHz |
| | The video bandwidth shall be at leas resolution bandwidth. | t three times greater than the |
| Measurement procedure: | Bandwidth Measurements (6.1) | |

| Comment: | |
|---------------|----------------------------------|
| Date of test: | June 8, 2007 |
| Test site: | Fully anechoic room, cabin no. 2 |





Date: 8.JUN.2007 13:00:47

| Permitted frequency band: | 902 - 928 MHz | |
|---|----------------------|--|
| 20 dB bandwidth: | 340 kHz | |
| Carrier frequency stability: Maximum frequency tolerances: | specified | ⊠ not specified |
| Bandwidth of the emission: | | within permitted frequency band ⁵ : ⊠ yes □ no |
| | | |
| Test Result: | Test passed | |

⁵ If a frequency stability is not specified, it is recommended that the fundamental emission is kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.



8.3 Designation of Emissions

| Rules and specifications: | CFR 47 Part 2, sections 2.201 and 2.202 IC RSS-Gen Issue 1, sections 3.2(h) and 8 |
|---------------------------|---|
| Guide: | ANSI C63.4 / TRC-43 |

| Type of modulation: |
|---------------------|
|---------------------|

| B _n = Necessary Bandwidth | $B_n = 2BK$ |
|--------------------------------------|---|
| B = Modulation rate | B = 100 kHz |
| K = Overall numerical factor | K = 1 |
| Calculation: | $B_n = 2 \cdot (100 \text{ kHz}) \cdot 1 = 200 \text{ kHz}$ |

| Designation of Emissions: | 200KA1D |
|---------------------------|---------|
|---------------------------|---------|



8.4 Pulse Train Measurement

| Rules and specifications: | CFR 47 Part 15, section 15.35(c) IC RSS-Gen Issue 1, section 4.3 | |
|---------------------------|---|--|
| Guide: | ANSI C63.4 | |
| Measurement procedure: | Pulse Train Measurement (6.2) | |

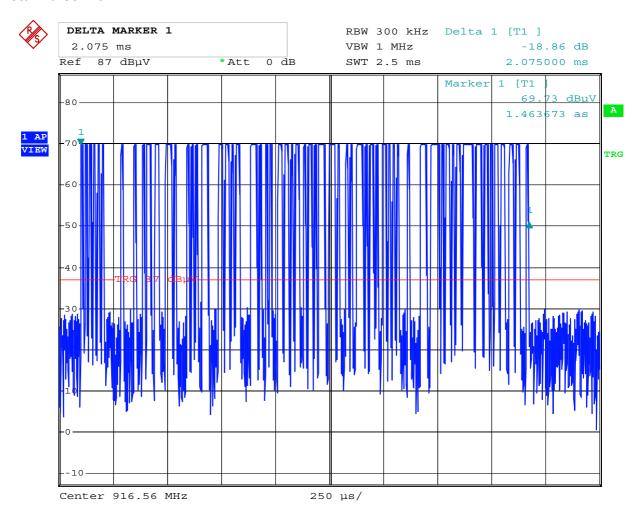
| Comment: | |
|---------------|----------------------------------|
| Date of test: | May 21, 2007 |
| Test site: | Fully anechoic room, cabin no. 2 |

Calculation of pulse train correction:

| TX-On-Time (worst case): | T _{on} | = | 4 · 2.075 ms = 8.3 ms |
|-----------------------------|----------------------|---|---|
| Pulse Train Time: | T_{pt} | = | 100 ms |
| Period Time: | T _{period} | = | 100 ms |
| Pulse Train Correction: | C _{pt} | = | 20 · Log(T _{on} / T _{period}) dB |
| | | = | -21.6 dB |
| Used Pulse Train Correction | C _{pt,used} | = | -20 dB |



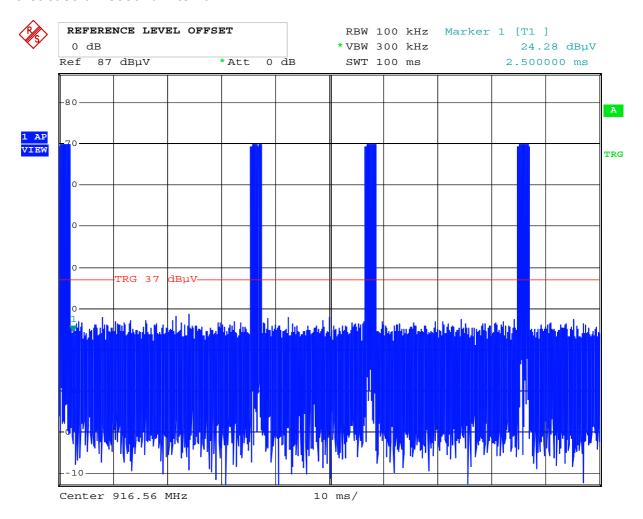
Total Pulse Train:



Date: 21.MAY.2007 12:45:02



Worst case 0.1 second interval:



Date: 21.MAY.2007 12:42:45



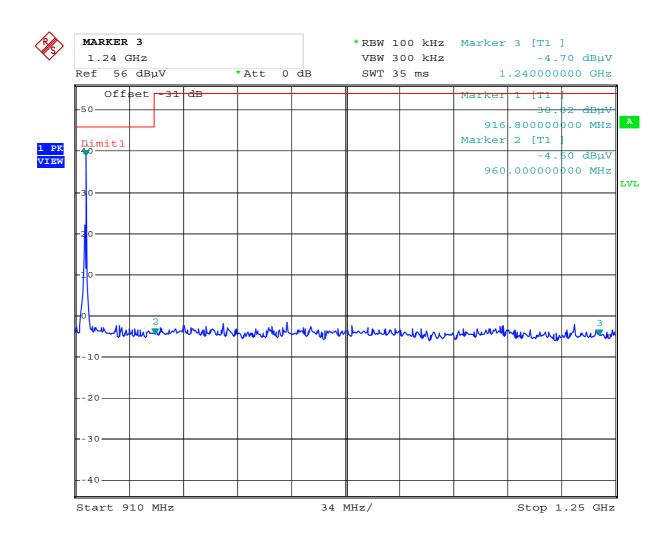
8.5 Restricted Bands of Operation

| Rules and specifications: | CFR 47 Part 15, section 15.205(a) IC RSS-210 Issue 6, section 2.2(a) |
|---------------------------|--|
| Guide: | ANSI C63.4 |
| Limit: | Only spurious emissions are permitted in any of the frequency bands listed in CFR 47 Part 15, section 15.205(a) or IC RSS-210 Issue 6, section 2.2(a). |
| Measurement procedure: | Radiated Emission in Fully or Semi Anechoic Room (6.3) |

| Comment: | |
|----------------|----------------------------------|
| Date of test: | 21 May 2007 |
| Test site: | Fully anechoic room, cabin no. 2 |
| Test distance: | 3 meters |

| Test Result: | Test passed |
|--------------|-------------|
|--------------|-------------|





Date: 21.MAY.2007 12:47:49



8.6 Radiated Emission Measurement 9 kHz to 30 MHz

| Rules and specifications: | CFR 47 Part 15, sections 15.205 and 15.249 IC RSS-210 Issue 6, sections 2.2(b)(c), 2.6 and A2.9 | | | |
|---------------------------|---|-----------------------------|-------------------------------|---------------------------------------|
| Guide: | ANSI C63.4 | | | |
| Limit: | Frequency of Emission (MHz) | Field Strength (μV/m) | Field Strength (dBµV/m) | Measurement Distance d (meters) |
| | 0.009 - 0.490 | 2400/F(kHz) | 67.6 - 20 · log(F(kHz)) | 300 |
| | 0.490 - 1.705 | 24000/F(kHz) | 87.6 - 20 · log(F(kHz)) | 30 |
| | 1.705 - 13.110 | 30 | 29.5 | 30 |
| | 13.110 - 13.410 | 106 | 40.5 | 30 |
| | 13.410 - 13.553 | 334 | 50.5 | 30 |
| | 13.553 - 13.567 | 15848 | 84.0 | 30 |
| | 13.567 - 13.710 | 334 | 50.5 | 30 |
| | 13.710 - 14.010 | 106 | 40.5 | 30 |
| | 14.010 - 30.000 | 30 | 29.5 | 30 |
| | Additionally, the level of any unwanted emissions shall not exceed the level of the fundamental emission. | | | |

| Test Result: | Test passed (No emissions below 30 MHz found) |
|--------------|---|
|--------------|---|



8.7 Radiated Emission Measurement 30 MHz to 10 GHz

| Rules and specifications: | CFR 47 Part 15, sections 15.215(b) and 15.249 IC RSS-210 Issue 6, section A2.9 | | | |
|---------------------------|--|----------------------------|------|--|
| Guide: | ANSI C63.4 | | | |
| Limit: | Frequency of Emission (MHz) | Field Strength (dBµV/m) | | |
| | 30 - 88 | 100 | 40.0 | |
| | 88 - 216 | 150 | 43.5 | |
| | 216 - 960 | 200 | 46.0 | |
| | Above 960 | 500 | 54.0 | |
| | Additionally, the level of any unwanted emissions shall not exceed of the fundamental emission. | | | |
| Measurement procedures: | Radiated Emission in Fully or Semi Anechoic Room (6.3) Radiated Emission at Open Field Test Site (6.4) | | | |

| Comment: | Maximum values of three positions | |
|----------------|---|--|
| Date of test: | May 24, 2007 | |
| Test site: | Frequencies ≤ 1 GHz: Open field test site Frequencies > 1 GHz: Fully anechoic room, cabin no. 2 | |
| Test distance: | Frequencies ≤ 8.2 GHz: 3 meters Frequencies > 8.2 GHz: 1 meters | |

| Test Result: | Test passed |
|--------------|-------------|
| | · |

| Frequency | Antenna | Detector | Receiver | Correction | Pulse Train | Final | Limit | Margin |
|-----------|--------------|------------|----------|------------|-------------|----------|----------|--------|
| | Polarization | | Reading | Factor | Correction | Value | | |
| (MHz) | | | (dBµV) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| 916.560 | horizontal | Quasi-Peak | 50.6 | 26.2 | | 76.8 | 94.0 | 17.2 |
| 1832.000 | vertical | Peak | 25.9 | 31.3 | -20.0 | 37.1 | 54.0 | 16.9 |
| 1834.000 | vertical | Peak | 17.9 | 31.2 | -20.0 | 29.2 | 54.0 | 24.8 |
| 1835.200 | horizontal | Peak | 23.3 | 31.2 | -20.0 | 34.5 | 54.0 | 19.5 |
| 2751.200 | vertical | Peak | 15.8 | 28.8 | -20.0 | 24.7 | 54.0 | 29.4 |

Sample calculation of final values:

Final Value (dB μ V/m) = Reading Value (dB μ V) + Correction Factor (dB/m) + Pulse Train Correction (dB)



8.8 Exposure of Humans to RF Fields

| Rules and specifications: | IC RSS-Gen Issue 1, section 5.5 |
|---------------------------|---------------------------------|
| Guide: | IC RSS-102 Issue 2, section 2.5 |

| | a) | <u> </u> | _ | |
|--|------------|-----------------------|----------|-----------|
| Exposure of Humans to RF Fields | Applicable | Declared by applicant | Measured | Exemption |
| The antenna is | | | | |
| detachable | | | | |
| The conducted output power (CP in watts) is measured at the antenna connector: | | | | |
| $CP = \dots$ W | | | | |
| The effective isotropic radiated power (EIRP in watts) is calculated using | | | | |
| the numerical antenna gain: $G = \dots$ \mathbf{W} | | | | |
| \Box the field strength ⁶ in V/m: $FS = \dots V/m$ | | | | |
| $EIRP = \frac{(FS \cdot D)^2}{30} \Rightarrow EIRP = \dots $ | | | | |
| with: | | | | |
| Distance between the antennas in m: $D = \dots $ m | | | | |
| ⊠ not detachable | | | | |
| A field strength measurement is used to determine the effective isotropic radiated power (EIRP in watts) given by ⁶ : | | | | |
| $EIRP = \frac{(FS \cdot D)^2}{30} \Rightarrow EIRP = 14.4 \muW$ | | | | |
| with: | | | | |
| Field strength in V/m: $FS = 6.92 \mu\text{V/m}$ | | | | |
| Distance between the two antennas in m: $D = 3,0 \text{ m}$ | | | Ш | |
| Selection of output power | | | | |
| The output power TP is the higher of the conducted or effective isotropic radiated power (e.i.r.p.): | | | | |
| $TP = 14.4 \mu W$ | | | | |

Test Report No. 55456-070374-2 (Edition 2)

⁶ The conversion formula is valid only for properly matched antennas. In other cases the transmitter output power may have to be measured by a terminated measurement when applying the exemption clauses. If an open area test site is used for field strength measurement, the effect due to the metal ground reflecting plane should be subtracted from the maximum field strength value in order to reference it to free space, before calculating TP.



| Exposure of Humans to RF Fields (continued) | Applicable | Declared by applicant | Measured | Exemption | | |
|--|------------|-----------------------|----------|-----------|--|--|
| Separation distance between the user and the transmitting device is | | | | | | |
| ☐ less than or equal to 20 cm ☐ greater than 20 cm | | \boxtimes | | | | |
| Transmitting device is | | | | | | |
| ☐ in the vicinity of the human head ☐ body-worn | | \boxtimes | | | | |
| SAR evaluation | | | | | | |
| SAR evaluation is required if the separation distance between the user and the device is less than or equal to 20 cm. | | | | | | |
| ☐ The device operates from 3 kHz up to 1 GHz inclusively and its source-based time-averaged output power is less than, or equal to 200 mW for General Public Use and 1000 mW for Controlled Use. | | | | | | |
| ☐ The device operates above 1 GHz up to 2.2 GHz inclusively and its source-based time-averaged output power is less than, or equal to 100 mW for General Public Use and 500 mW for Controlled Use. | | | | | | |
| The device operates above 2.2 GHz up to 3 GHz inclusively and its source-based time-averaged output power is less than, or equal to 20 mW for General Public Use and 100 mW for Controlled Use. | | | | | | |
| ☐ The device operates above 3 GHz up to 6 GHz inclusively and its source-based time-averaged output power) is less than, or equal to 10 mW for General Public Use and 50 mW for Controlled Use. | | | | | | |
| ☐ SAR evaluation is documented in test report no | | | | | | |
| RF exposure evaluation | | | | | | |
| RF exposure evaluation is required if the separation distance between the user and the device is greater than 20 cm. | | | | | | |
| ☐ The device operates below 1.5 GHz and its e.i.r.p. is equal to or less than 2.5 W. | | | | | | |
| ☐ The device operates at or above 1.5 GHz and the e.i.r.p. of the device is equal to or less than 5 W. | | | | | | |
| RF exposure evaluation is documented in test report no. | | | | | | |



9 Referenced Regulations

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

| - | | |
|---------------------------------|---|---|
| CFR 47 Part 2 | Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communication Commission (FCC) | October 1, 2006 |
| CFR 47 Part 15 | Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC) | August 14, 2006 |
| ANSI C63.4 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | December 11, 2003 (published on January 30, 2004) |
| RSS-Gen | Radio Standards Specification RSS-Gen Issue 1 containing General Requirements and Information for the Certification of Radiocommunication Equimpment, published by Industry Canada | September 2005 |
| RSS-210 | Radio Standards Specification RSS-210 Issue 6 for Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, published by Industry Canada | September 2005 |
| RSS-310 | Radio Standards Specification RSS-310 Issue 1 for Low Power Licence-Ecempt Radiocommunicaton Devices (All Frequency Bands): Category II Equipment, published by Industry Canada | September 2005 |
| RSS-102 | Radio Standards Specification RSS-102 Issue 2: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) | November 2005 |
| ICES-003 | Interference-Causing Equipment Standard ICES-003 Issue 4 for Digital Apparatus, published by Industry Canada | February 7, 2004 |
| CISPR 22 | Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment – Radio Disturbance Characteristics – Limits and Methods of Measurement" | 1997 |
| CAN/CSA- CEI/IEC CISPR 22 | Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment | 2002 |
| TRC-43 | Notes Regarding Designation of Emission (Including Necessary Bandwidth and Classification), Class of Station and Nature of Service, published by Industry Canada | October 9, 1982 |



10 Revision History

| Revision History | | | | |
|------------------|---------------|---------------------|--|--|
| Edition | Date | Issued by | Modifications | |
| 1 | June 11, 2007 | Martin Steindl (cj) | First Edition | |
| 2 | June 22, 2007 | Christa Jäger | Radiated Emission Test 9 kHz - 30 MHz attached | |



11 Charts taken during testing

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

| Model: i-B2M M1/NA | | |
|---|---------------------------|--|
| Serial no.: 0.300.019.116 | | |
| Applicant: IDENTEC SOLUTIONS | S AG | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 3 metres Horizontal Polarization | | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |

Comment:

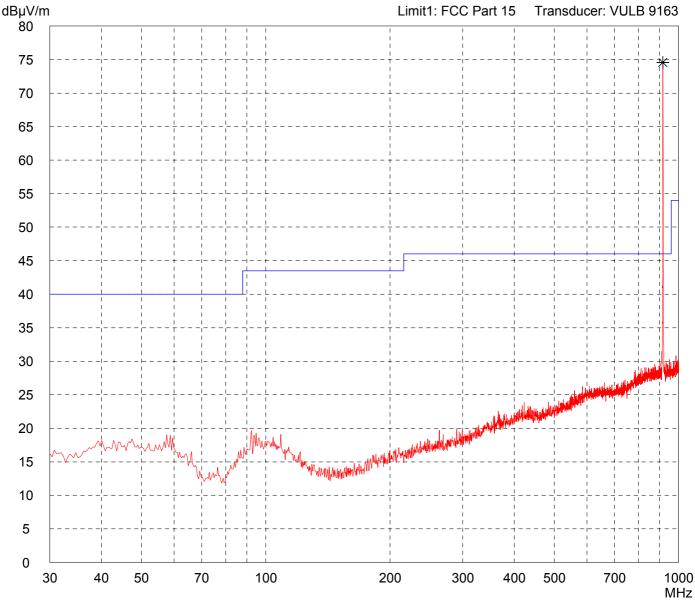
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



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

| Model: i-B2M M1/NA | | |
|---|-------------------------|--|
| Serial no.: 0.300.019.116 | | |
| Applicant: IDENTEC SOLUTIONS | S AG | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 3 metres Vertical Polarization | | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: | |

Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

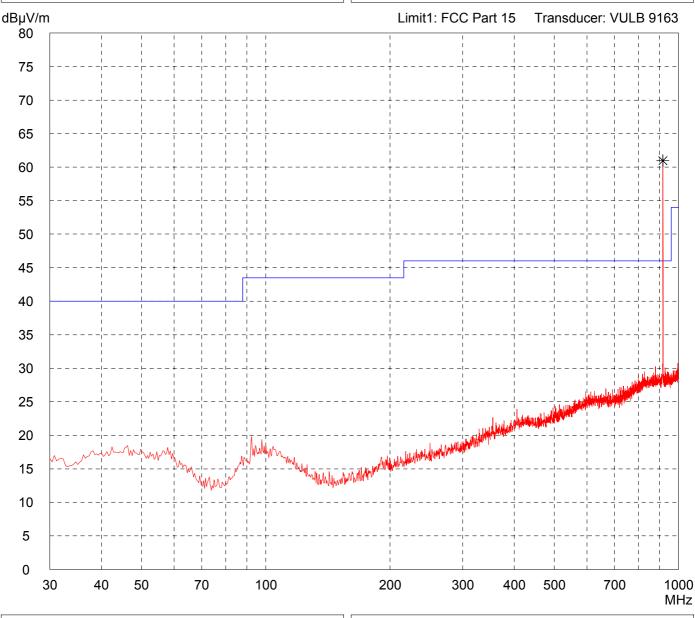
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



Result:
Prescan

Project file: 55456-70374

Radiated Emission Test 1 GHz - 2.6 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 05/21/2007 M. Steindl File name: Test performed: automatically default.emi

Comment:

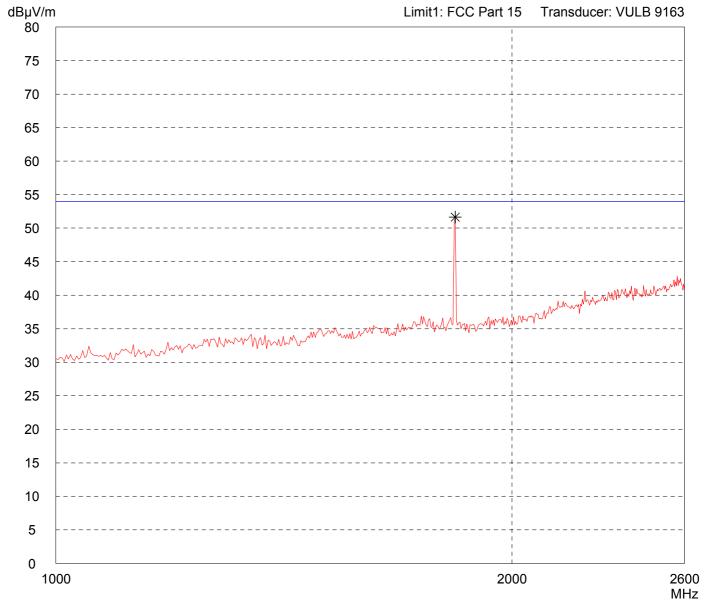
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Radiated Emission Test 1 GHz - 2.6 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 05/21/2007 M. Steindl File name: Test performed: automatically default.emi

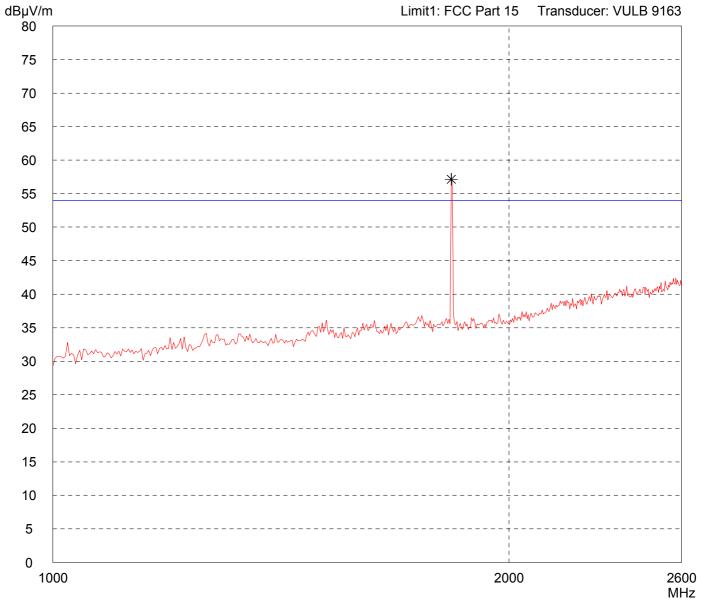
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

Detector:

Peak

List of values:
10 dB Margin
50 Subranges



Radiated Emission Test 2.6 GHz - 3.95 GHz acc. to FCC Part 15 (EMCO 3160)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 meters Horizontal Polarization Operator: Date of test: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

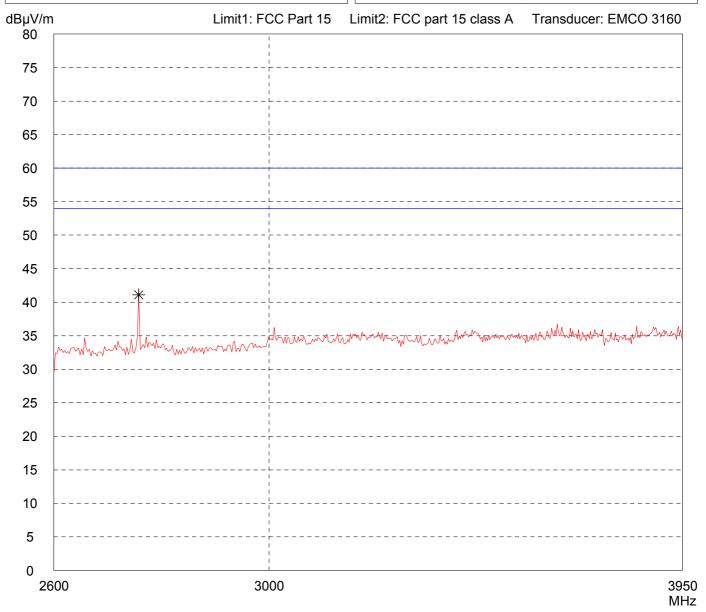
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Radiated Emission Test 2.6 GHz - 3.95 GHz acc. to FCC Part 15 (EMCO 3160)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 meters Vertical Polarization Date of test: Operator: 05/21/2007 M. Steindl File name: Test performed: automatically default.emi

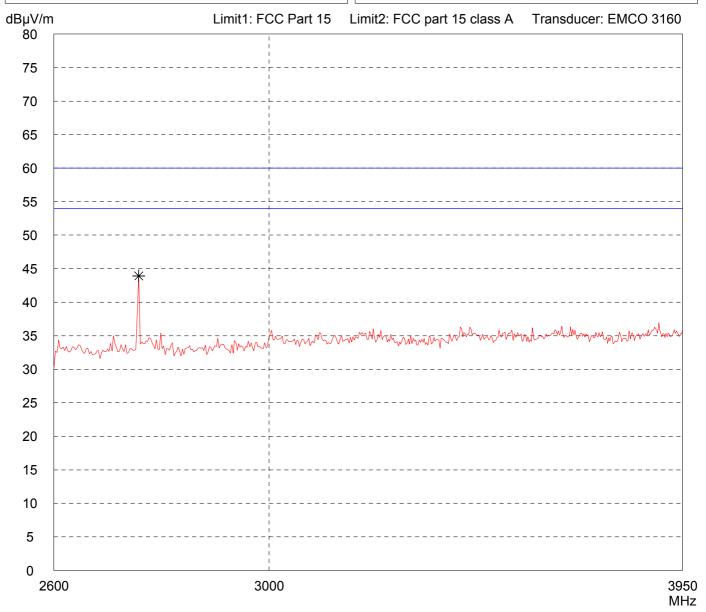
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

Comment:

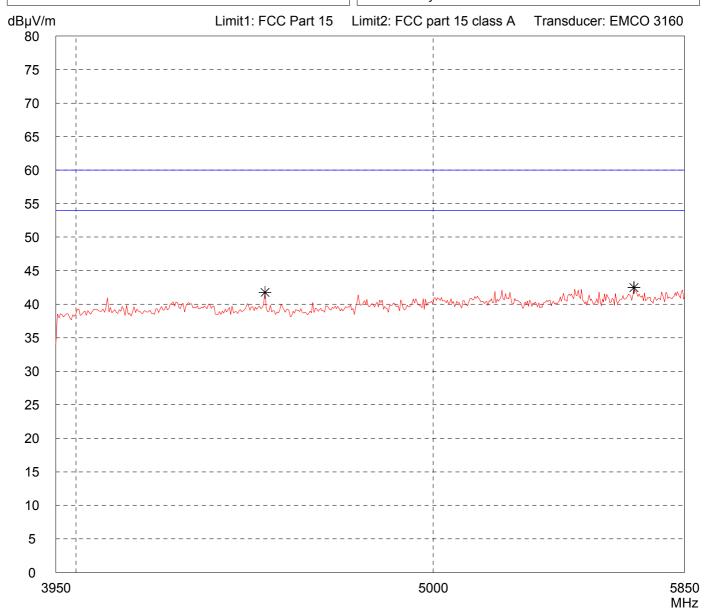
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

Detector:

Peak

List of values:

Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

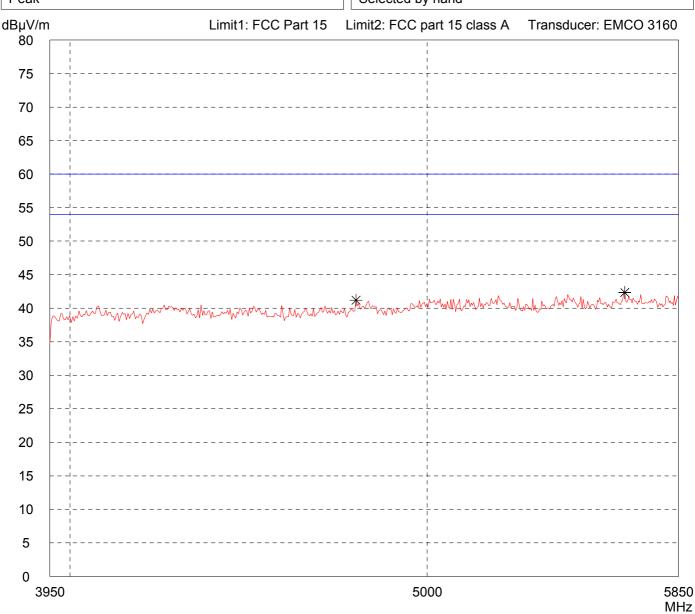
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

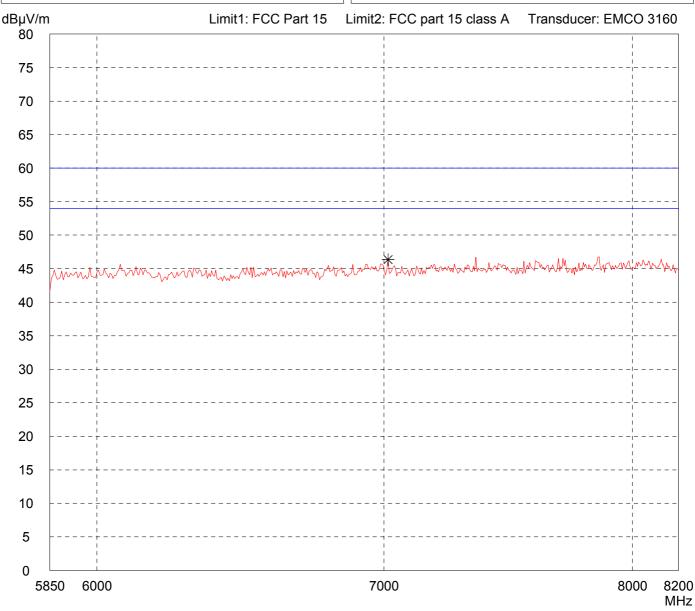
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

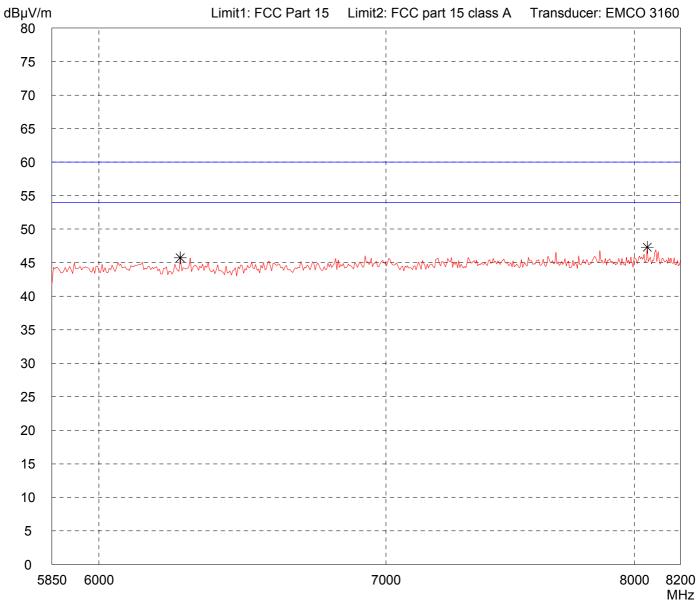
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 1: EUT flat on table

Detector:

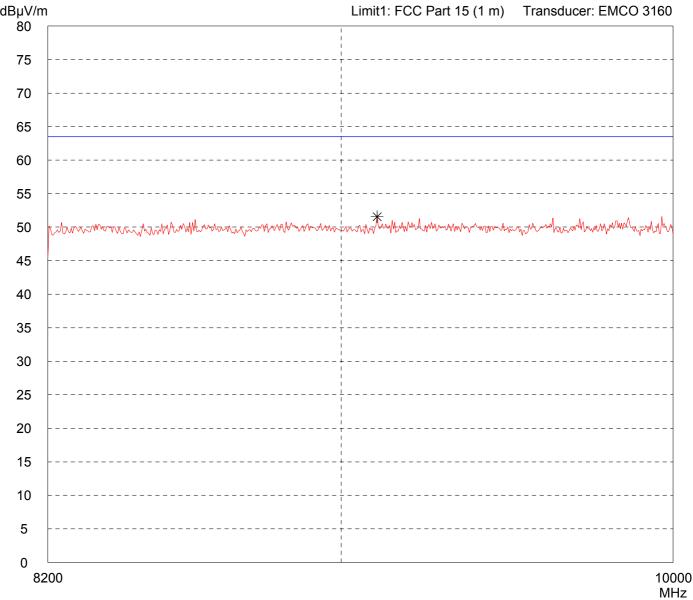
Peak

List of values:
Selected by hand



Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

| 4.551 to 1.551 and 15 (2.1155) | | |
|---|---------------------------|--|
| Model: i-B2M M1/NA | | Comment: |
| Serial no.: 0.300.019.116 Applicant: IDENTEC SOLUTIONS AG Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Horizontal Polarization | | - 3.0 V battery supply - transmitting continuously with modulation |
| | | - Position 1: EUT flat on table |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |
| Detector: Peak | | List of values: Selected by hand |
| dBuV/m | | Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160 |



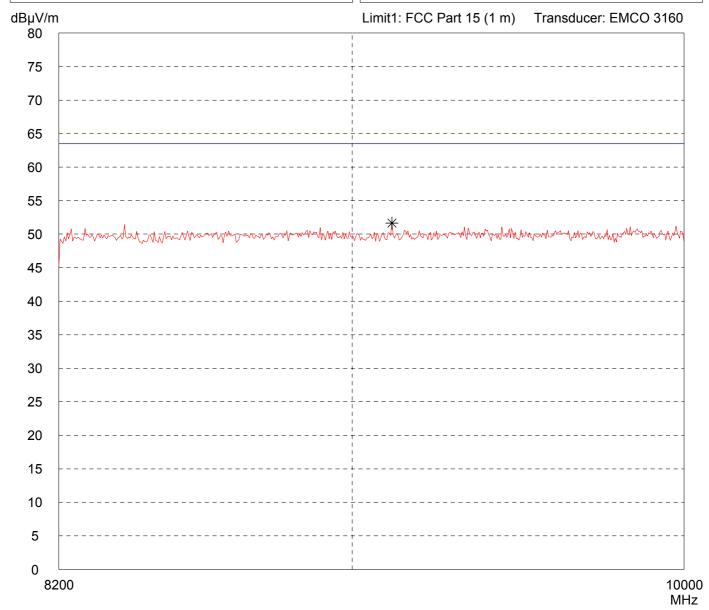
Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

| Model: i-B2M M1/NA | | Comme |
|---|---------------------------|-----------|
| Serial no.: 0.300.019.116 | | - 3.0 V |
| Applicant: IDENTEC SOLUTION | | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 1 mete Vertical Polarization | r | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |
| Detector: | | List of v |

ent:

- V battery supply
- smitting continuously with modulation
- ition 1: EUT flat on table

values: Peak Selected by hand



Result: Project file: Prescan 55456-70374

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

| Model: i-B2M M1/NA | | |
|---|---------------------------|--|
| Serial no.: 0.300.019.116 | | |
| Applicant: IDENTEC SOLUTIONS | AG | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 3 metres Horizontal Polarization | | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |
| | | |

Comment:

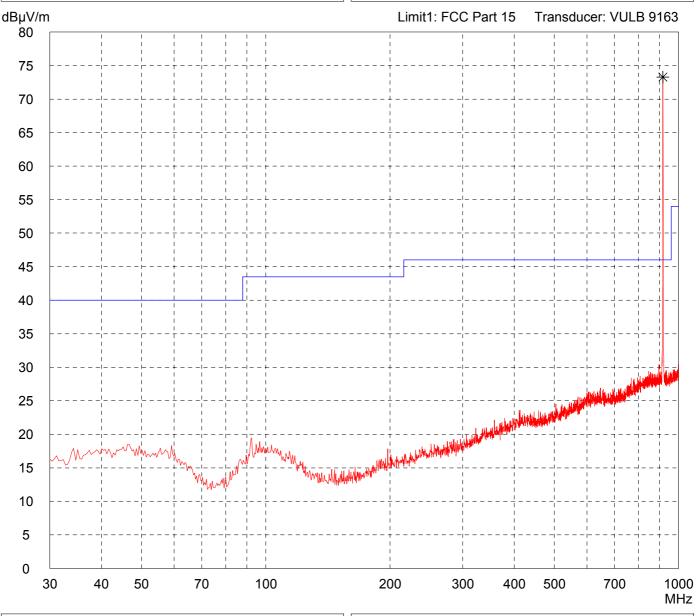
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Result:
Prescan

Project file: 55456-70374

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

| Model: i-B2M M1/NA | | |
|--|---------------------------|--|
| Serial no.: 0.300.019.116 | | |
| Applicant: IDENTEC SOLUTIONS AG | | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 3 metre Vertical Polarization | s | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |

Comment:

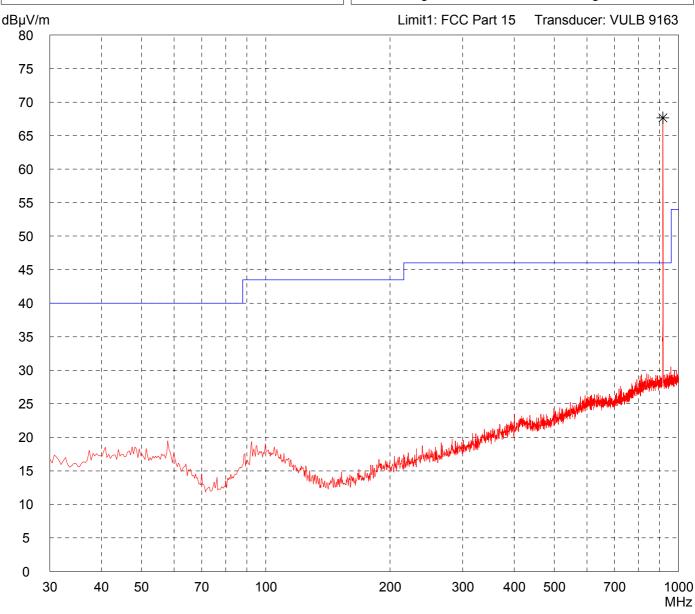
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Radiated Emission Test 1 GHz - 2.6 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

| Model: i-B2M M1/NA | | |
|---|---------------------------|--|
| Serial no.: 0.300.019.116 | | |
| Applicant: IDENTEC SOLUTIONS | AG | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 3 metres Horizontal Polarization | | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |

Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

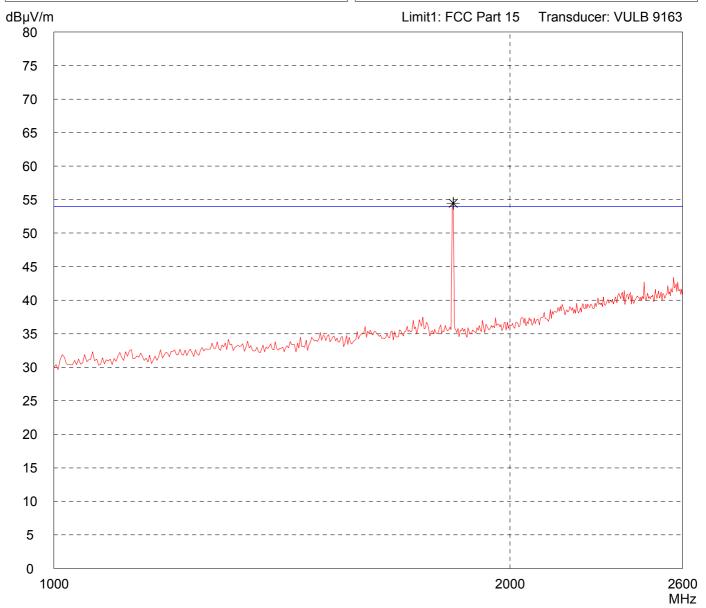
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



 Result:
 Project file:

 Prescan
 55456-70374

Radiated Emission Test 1 GHz - 2.6 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

| Model: i-B2M M1/NA | | |
|---|---------------------------|--|
| Serial no.: 0.300.019.116 | | |
| Applicant: IDENTEC SOLUTION | S AG | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 3 metres Vertical Polarization | 5 | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |

Comment:

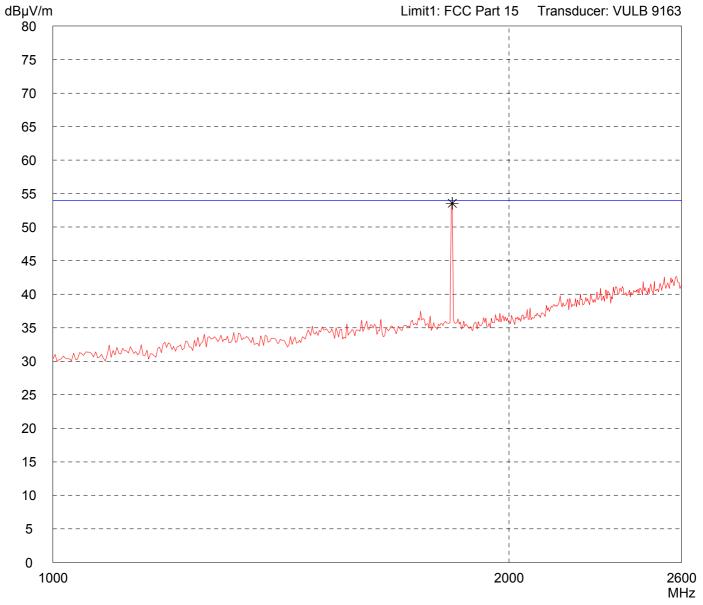
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Radiated Emission Test 2.6 GHz - 3.95 GHz acc. to FCC Part 15 (EMCO 3160)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 meters Horizontal Polarization Operator: Date of test: 05/21/2007 M. Steindl File name: Test performed: automatically default.emi

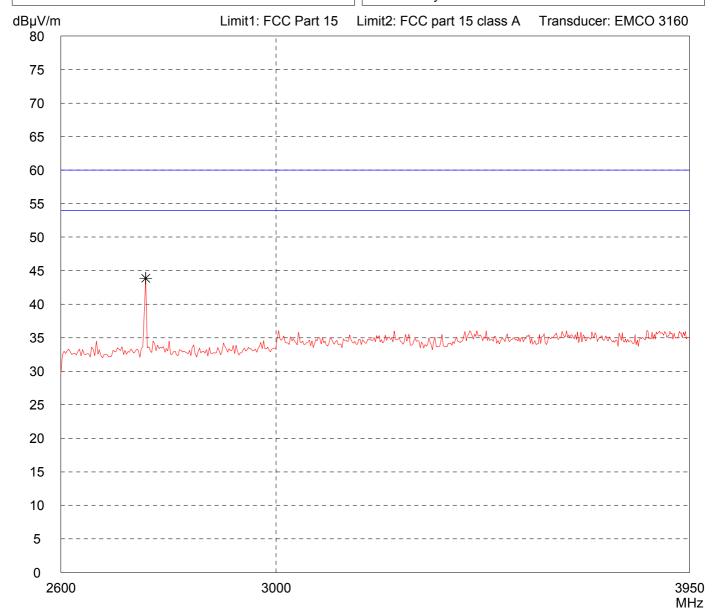
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Radiated Emission Test 2.6 GHz - 3.95 GHz acc. to FCC Part 15 (EMCO 3160)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 meters Vertical Polarization Date of test: Operator: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

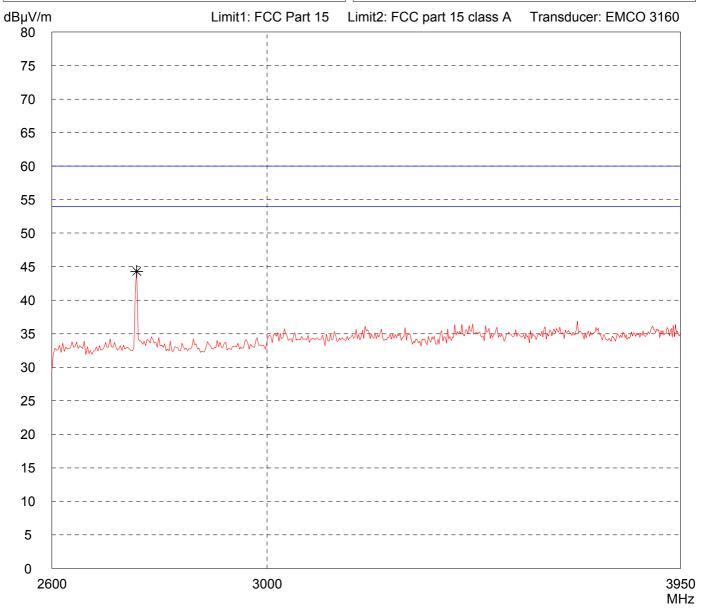
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

Comment:

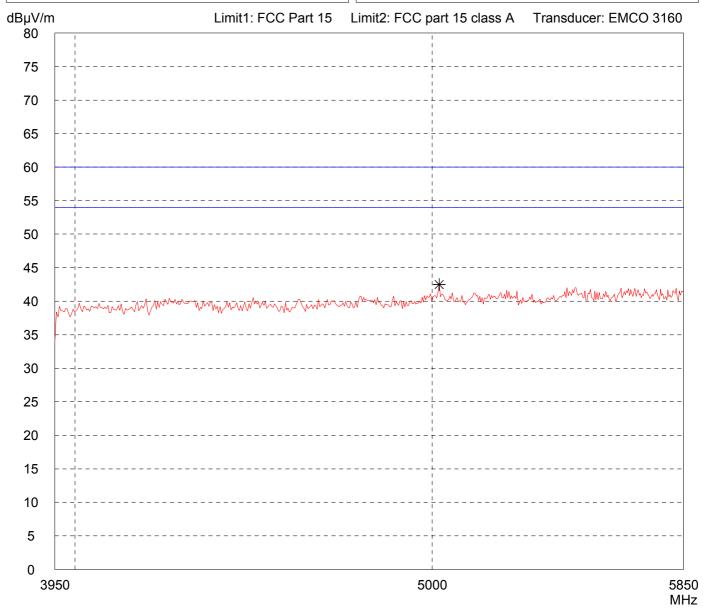
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:

Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

Comment:

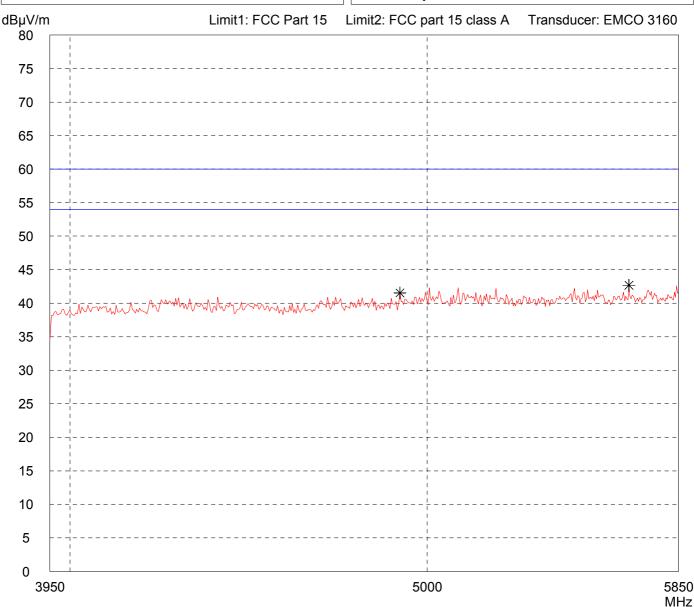
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:

Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

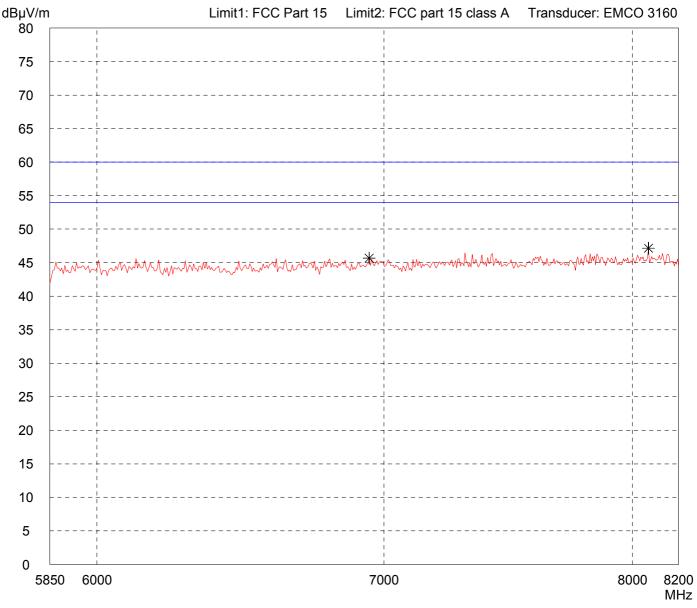
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

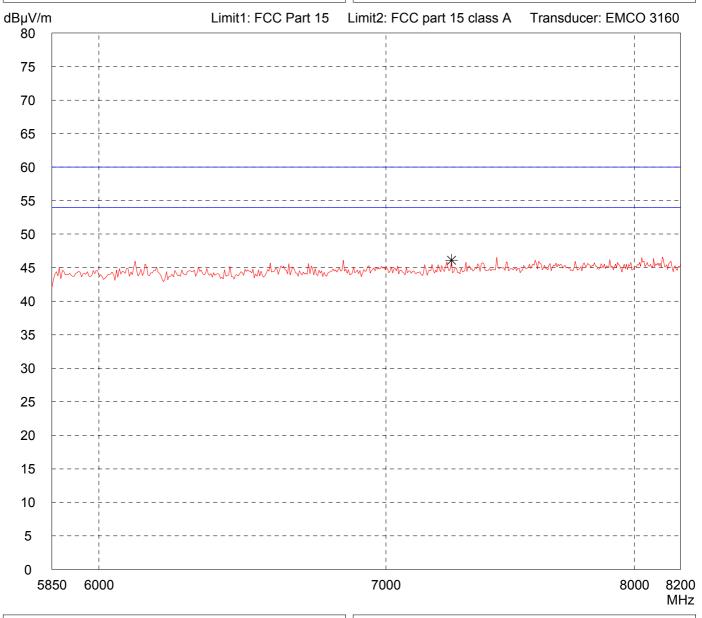
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand

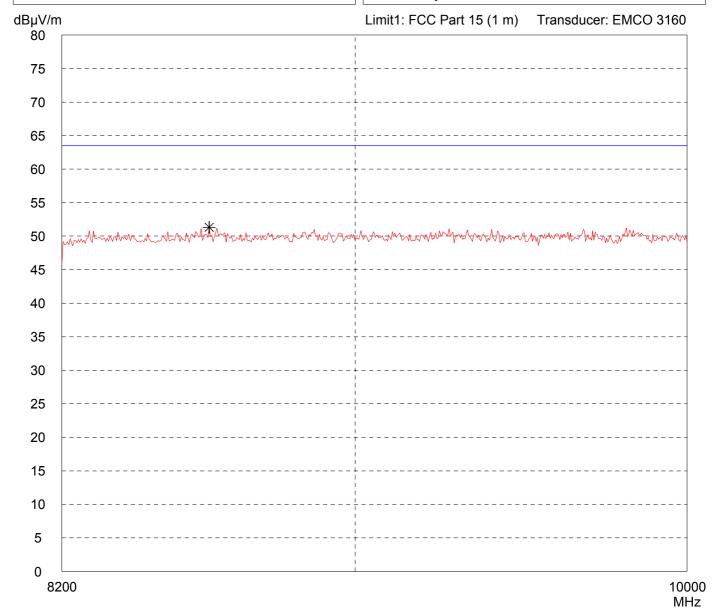


Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

| Model: i-B2M M1/NA | | Comment: |
|--|---------------------------------|--|
| Serial no.: 0.300.019.116 | | - 3.0 V battery supply - transmitting continuous |
| Applicant: IDENTEC SOLUTION | Applicant: IDENTEC SOLUTIONS AG | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 1 mete Horizontal Polarizatio | | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |
| Detector: | | List of values: |

- sly with modulation
- g side

Selected by hand Peak



Result: Project file: Prescan 55456-70374

Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: 05/21/2007 M. Steindl File name: Test performed: automatically default.emi

Comment:

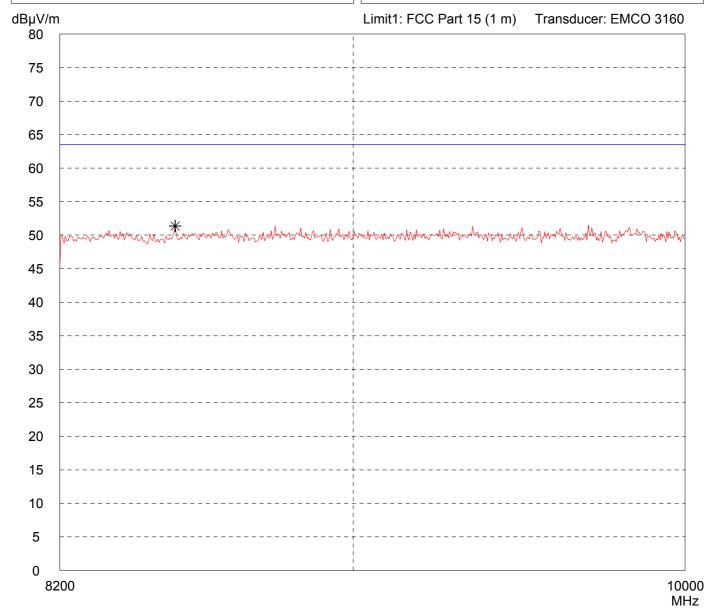
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 2: EUT on long side

Detector:

Peak

List of values:

Selected by hand



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

| Model: i-B2M M1/NA | | |
|---|---------------------------|--|
| Serial no.: 0.300.019.116 | | |
| Applicant: IDENTEC SOLUTIONS AG | | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 3 metres Horizontal Polarization | | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |

Comment:

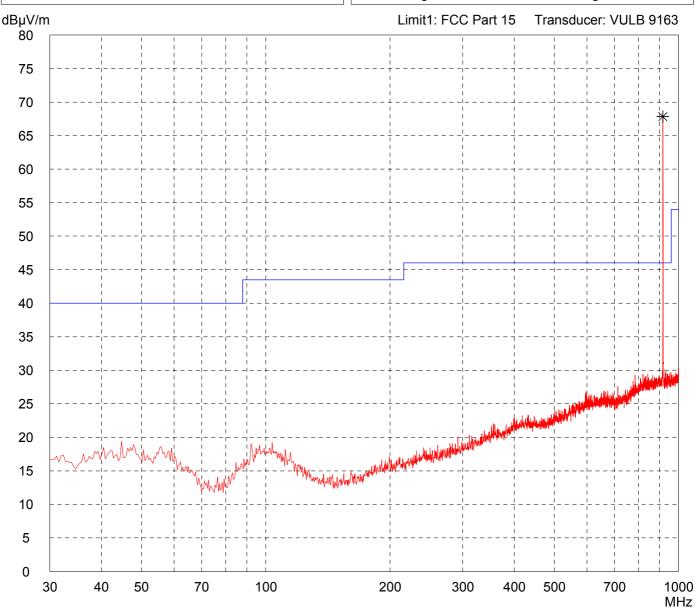
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



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

| Model: i-B2M M1/NA | | |
|---|---------------------------|--|
| Serial no.: 0.300.019.116 | | |
| Applicant: IDENTEC SOLUTIONS AG | | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 3 metres Vertical Polarization | 5 | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |

Comment:

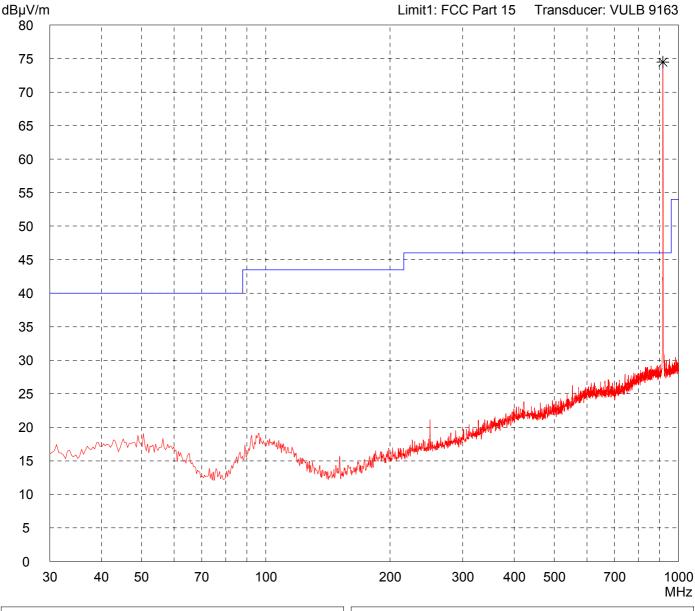
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Result:
Prescan

Project file: 55456-70374

Radiated Emission Test 1 GHz - 2.6 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

| Model: i-B2M M1/NA | | |
|---|---------------------------|--|
| Serial no.: 0.300.019.116 | | |
| Applicant: IDENTEC SOLUTIONS AG | | |
| Test site: Fully anechoic room, cabin no. 2 | | |
| Tested on: Test distance 3 metres Horizontal Polarization | | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |

Comment:

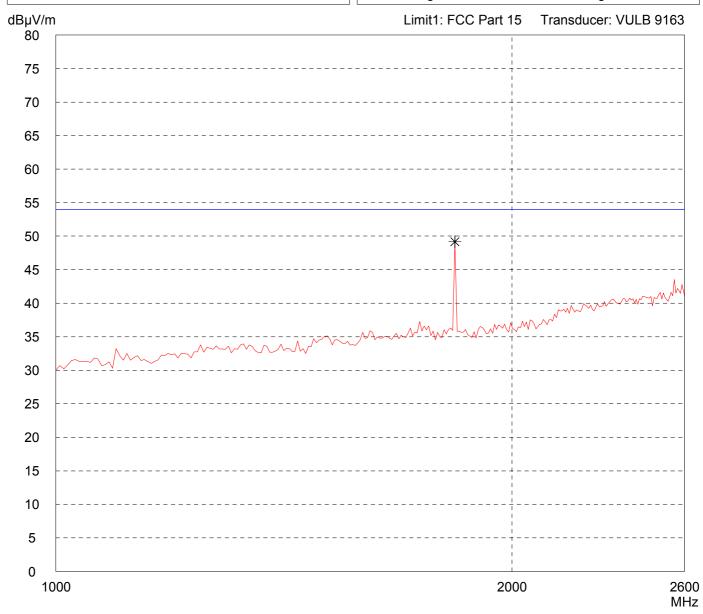
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Radiated Emission Test 1 GHz - 2.6 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 05/21/2007 M. Steindl File name: Test performed: automatically default.emi

Comment:

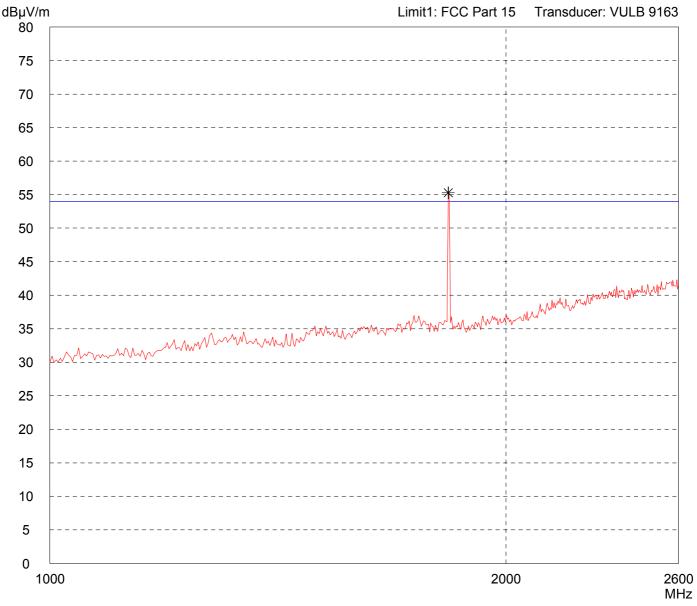
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Radiated Emission Test 2.6 GHz - 3.95 GHz acc. to FCC Part 15 (EMCO 3160)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 meters Horizontal Polarization Date of test: Operator: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

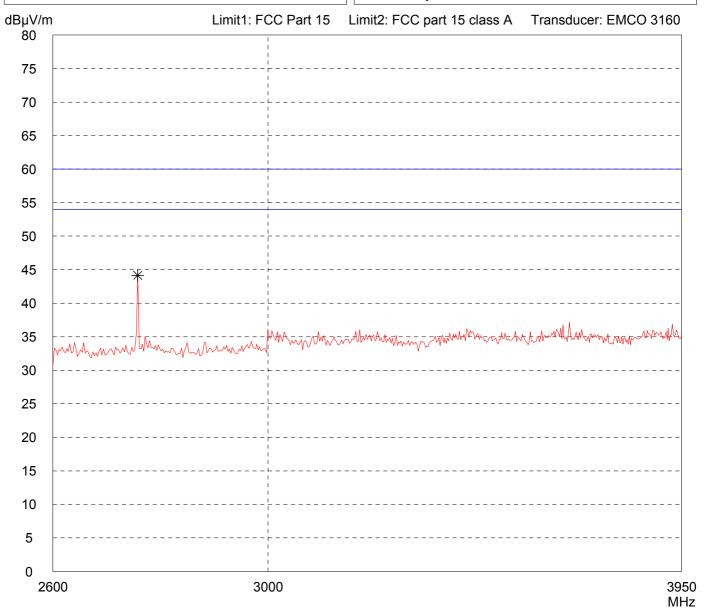
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Radiated Emission Test 2.6 GHz - 3.95 GHz acc. to FCC Part 15 (EMCO 3160)

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 meters Vertical Polarization Date of test: Operator: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

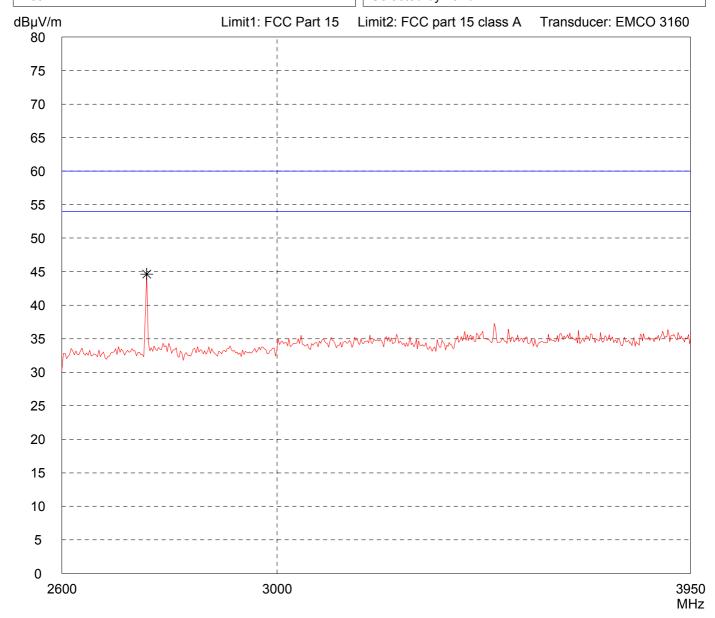
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

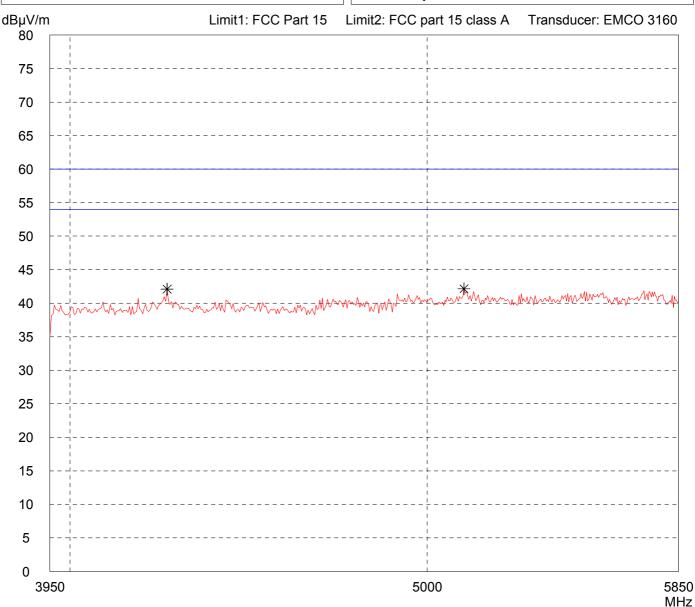
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

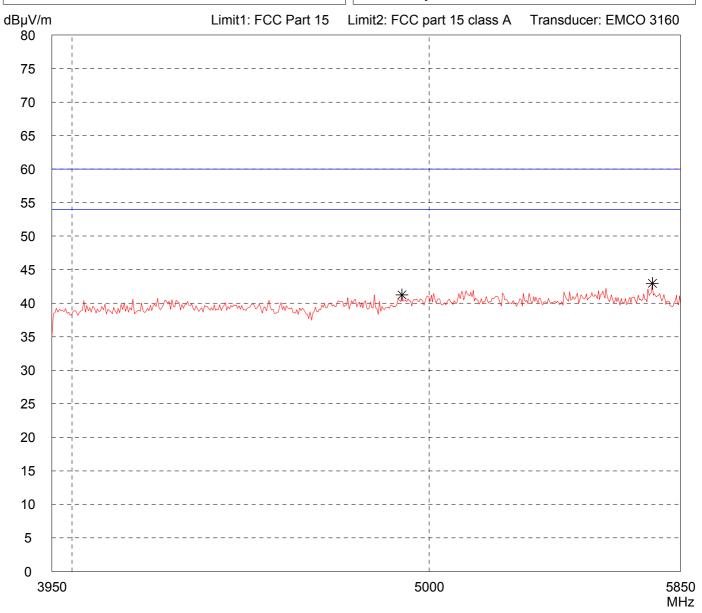
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

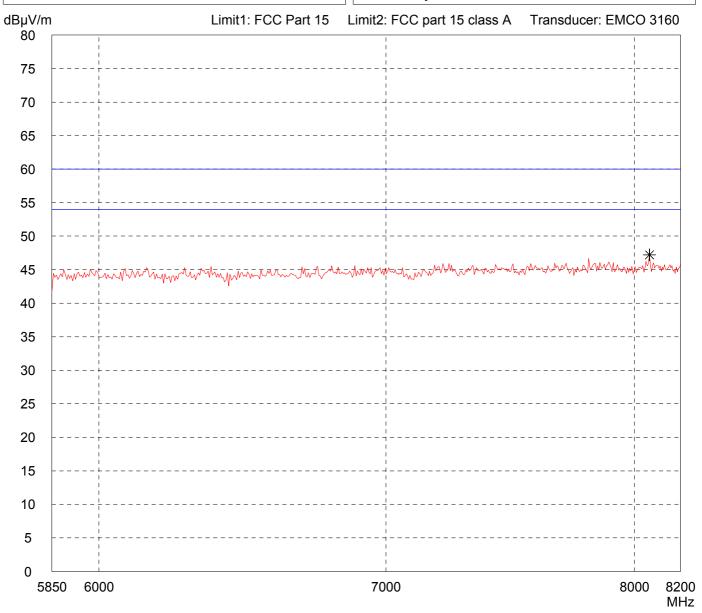
Comment:

- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



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

Model: i-B2M M1/NA Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 05/21/2007 M. Steindl Test performed: File name: automatically default.emi

Comment:

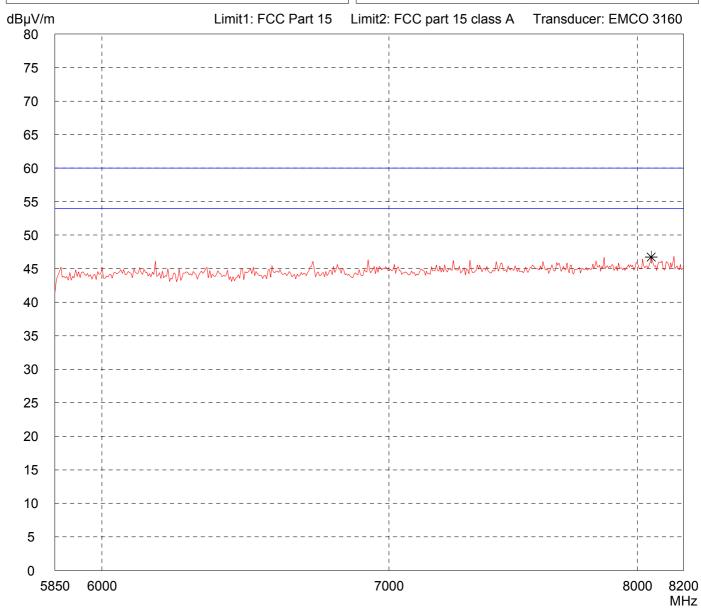
- 3.0 V battery supply
- transmitting continuously with modulation
- Position 3: EUT in upright position

Detector:

Peak

List of values:

Selected by hand

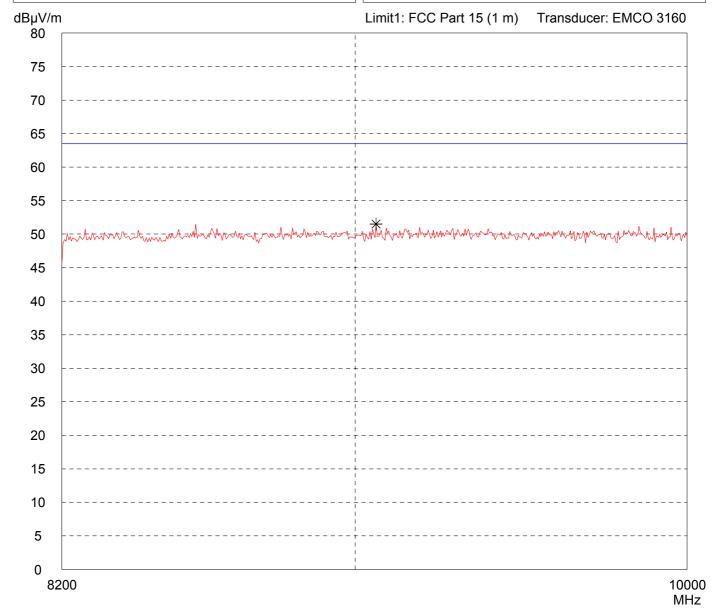


Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

Model: Comment: i-B2M M1/NA - 3.0 V battery supply Serial no.: 0.300.019.116 Applicant: **IDENTEC SOLUTIONS AG** Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Horizontal Polarization Date of test: Operator: 05/21/2007 M. Steindl File name: Test performed: automatically default.emi Detector: List of values:

- transmitting continuously with modulation
- Position 3: EUT in upright position

Peak Selected by hand



Result: Project file: Prescan 55456-70374

Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

| Model: i-B2M M1/NA | | Comment: |
|---|---------------------------|--|
| Serial no.: 0.300.019.116 Applicant: | | - 3.0 V battery supply - transmitting continuously with modulation |
| Test site: Fully anechoic room, cabin no. 2 | | - Position 3: EUT in upright position |
| | | |
| Tested on: Test distance 1 mete Vertical Polarization | r | |
| Date of test: 05/21/2007 | Operator: M. Steindl | |
| Test performed: automatically | File name: default.emi | |
| Detector: | | List of values: |
| Peak | | Selected by hand |
| | | |

