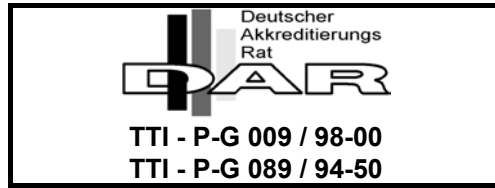


FCC ID: MYT8Z0837231



EMISSION -- TEST REPORT

Test Report File No. : T 22203-1-01 KJ Date of issue : August 2, 2002

Type Designation : 8Z0 837 231 F

Kind of Product : Transmitter 315 MHz

Applicant : Conti Temic microelectronic GmbH

Manufacturer : Conti Temic microelectronic Phils. Inc.

Licence holder : Conti Temic microelectronic GmbH

Address : Ringlerstr. 17
D-85057 Ingolstadt

Test result accdg. to the regulation(s) at page 3 :

Positive

This test report with attachment consists of **30** pages.
The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.

DIRECTORY

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TEST REGULATIONS

The tests were performed according to following regulations :

- o - EN 50081-1 / 2.1991
- o - EN 50081-2 / 7.1993

- o - EN 55011 / 3.1991
 - o - EN 55014 / 4.1993
 - o - EN 55014 / A2:1990
 - o - EN 55104 / 5.1995
 - o - EN 55015 / A1:1990
 - o - EN 55015 / 12.1993
 - o - EN 55022 / 5.1995
 - o - prEN 55103-1 / 3.1995
 - o - prEN 50121-3-2 / 3.1995
 - o - EN 60601-1-2 / 4.1994
 - o - VCCI
 - o - Part 15 Subpart C (15.209)
 - - Part 15 Subpart C (15.231)
- o - Group 1
 - o - class A
 - o - Household appliances and similar
 - o - tools
 - o - Semiconductor devices
 - Category:
 - o - class A
 - o - class B
 - o - class 1
 - o - class 2
- o - Group 2
 - o - class B

ADDRESS OF THE TEST LABORATORY

■ - MIKES BABT PRODUCT SERVICE GmbH
 Ohmstrasse 2-4
 D - 94342 Strasskirchen

○ - _____

ENVIRONMENTAL CONDITIONS

Temperature: 15-35 ° C
 Humidity 45-60 %
 Atmospheric pressure 860-1060 mbar

POWER SUPPLY SYSTEM UTILIZED

Power supply system	<input type="radio"/> 230V/50 Hz / 1φ	<input checked="" type="checkbox"/> 3.0 V DC
	<input type="radio"/> 400V/50 Hz 3PE	<input type="radio"/> 400V/50 Hz 3NPE

STATEMENT OF MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report accdg. to NIS 81 /5.1994 „The Treatment of Uncertainty in EMC Measurements“ and is documented in the MIKES BABT Product Service quality system accdg. to EN 45001. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EuT)

The EuT is a transmitter for keyless entry system. The RF transmitter works on a frequency of 315 MHz with ASK modulation and a data rate of 1.8 kBaud.

Number of received/tested samples: 2/2
 Serial Number: 1993

DEFINITIONS FOR SYMBOLS USED IN THIS TEST REPORT

■ The black square indicates that the listed condition, standard or equipment is applicable for this report.
 ○ Blank box indicates that the listed condition, standard or equipment was not applicable for this report.

MEASUREMENT PROTOCOL FOR FCC, VCCI AND AUSTRAL

Test Methodology

Conducted and radiated emission testing is performed according to the procedures in International Special Committee on Radio Interference (CISPR) Publication 22 (1993), European Standard EN 55022 and Australian Standard AS 3548 (which are based on CISPR 22).

The Japanese standard, "Voluntary Control Council for Interference (VCCI) by Data Processing Equipment and Electronic Office Machines, Technical Requirements" is technically equivalent to CISPR 22 (1993). For official compliance, a conformance report must be sent to and accepted by the VCCI.

In compliance with FCC Docket 92-152, "Harmonization of Rules for Digital Devices Incorporate International Standards", testing for FCC compliance may be done following the ANSI C63.4-1992 procedures and using the FCC limits or the CISPR 22 Limits.

Measurement Uncertainty

The test system for conducted emissions is defined as the LISN, tuned receiver or spectrum analyzer, and coaxial cable. The test system for radiated emissions is defined as the antenna, the pre-amplifier, the spectrum analyzer and the coaxial cable. These test systems have a measurement uncertainty of ± 4.5 dB. The equipment comprising the test systems are calibrated on an annual basis.

Justification

The Equipment Under Test (EuT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into its characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.

General Standard Information

The test methods used comply with CISPR Publication 22 (1993), EN 55022 (1987) and AS 3548 (1992) - "Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment" and with ANSI C63.4-1992 - "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz."

For detailed description of each measurement please refer to section test results.

Correction for pulse operation

When the transmitter is activated by momentary push, it transmits a 64 bit code algorithm and with a timesignal which is generated from a 32.768 crystal. The data are sent with Manchester code to the final transmitter stage in serial form and this then sends the data signal through the loop aerial in ASK modulation. The Manchester type coding is used with ones and zeros represented by high-low and low-high transitions. Each word is 250.76 ms. See attachment A page 2. We compute the duty factor by deviding ON-time by the period or timing period. This gives,

$$276.55 \mu\text{s} / 557.12 \mu\text{s} = 0.496 \text{ or } -6.09 \text{ dB}$$

DISCOVERY OF WORST CASE MEASUREMENT CONDITION:

The transmitter 8Z0 837 231 F is designed for the operation on the fixed transmitter frequency of approx. 315 MHz \pm 100 kHz.

To find out the worst case conditions for the complete measurement the following tests have been performed:

- Measurement of the radiated fieldstrength of the operating frequency measured in permanent operation mode in the specified channel. This measurement have been performed in order to find out the maximum transmitted fieldstrength of the transmitter.
- Measurement of the radiated spurious emissions measured in permanent operation mode in the specified channel. This measurement have been performed in order to find out the maximum spurious emissions of the transmitter.

Based on this test results, the measurements have been performed completely on the specified channel. This test results are documented in the following sections of the testreport.

TEST RESULT

CONDUCTED EMISSIONS - 10/150 kHz - 30 MHz

■ - Test not applicable

Test location :

- o - Shielded room no. 1
- o - Shielded room no. 2
- o - Shielded room no. 3
- o - Shielded room no. 4
- o - Shielded room no. 5
- o - Shielded room no. 6
- o - Shielded room no. 7
- o - Anechoic chamber
- o - Full compact chamber

For test instruments and test accessories used please see attachment B A4

Description of Measurement

The final level, expressed in dBµV, is arrived at by taking the reading directly from the EMI receiver. This level is compared directly to the FCC Limit or to the CISPR limit, which is equivalent to the Australian AS 3548 limit.

To convert between dBµV and µV, the following conversions apply:

$$dB\mu V = 20(\log \mu V)$$

$$\mu V = \text{Inverse log}(dB\mu V/20)$$

Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EuT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection, and a Line Impedance Stabilization Network (LISN), with 50Ω/50 µH (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeter's above the floor and is positioned 40 centimeter's from the vertical ground plane (wall) of the screen room. If the minimum passing margin appears to be less than 20 dB with a peak mode measurement, the emissions are remeasured using a tuned receiver with quasi-peak and average detection and recorded on the data sheets.

Test result:

The requirements are

o - MET

o - NOT MET

Min. limit margin

_____ dB at _____ MHz

Max. limit exceeding

_____ dB at _____ MHz

Remarks: Not applicable

SPURIOUS EMISSION

Spurious emissions from the EuT are measured in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions.

Spurious emissions from the EuT are measured in the frequency range of 30 MHz to 10 times the highest used frequency using a tuned receiver and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection and measurements above 1000 MHz are made with a 1 MHz/6 dB bandwidth and peak detection, remeasurement of results which may be critical will be repeated in average mode. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimetres above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimetres to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimetres from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarization's and the EuT are rotated 360 degrees.

SPURIOUS EMISSION (MAGNETIC FIELD) 9 kHz - 30 MHz

■ - Test not applicable

- o - in a shielded room
- o - at a non - reflecting open-site and
- o - in a test distance of 3 meters.
- o - in a test distance of 30 meters.

For test instruments and test accessories used please see attachment B SER1

Description of Measurement

The final level, expressed in dBµV/m, is arrived at by taking the reading from the EMI receiver (Level dBµV) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has to be compared with the relevant FCC limit.

The resolution bandwidth during the measurement is as follows:

- 9 kHz – 150 kHz: ResBW: 200 Hz
- 150 kHz – 30 MHz: ResBW: 10 kHz

Example:

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

Testresult in detail:

Frequency [MHz]	L: PK [dBµV]	L: AV [dBµV]	L: QP [dBµV]	Correct. [dB]	L: PK [dBµV/m]	L: AV [dBµV/m]	L: QP [dBµV/m]	Limit [dBµV/m]

The requirements are

o - MET

o - NOT MET

Min. limit margin

_____ dB

_____ MHz

Min. limit margin

_____ dB

_____ MHz

Remarks: Not applicabel.

SPURIOUS EMISSIONS (electric field) 30 MHz - 1000 MHz

- Test not applicable

Test location :

- - Open-site 1
- - Open-site 2
- - 3 meters
- - 10 meters
- - 30 meters

For test instruments and test accessories used please see attachment B SER2

Description of Measurement

The final level, expressed in dBµV/m, is arrived by taking the reading from the EMI receiver (Level dBµV) and adding the correction factors and cable loss factor (Factor dB) to it. This is done automatically in the EMI receiver, where the correction factors are stored. This result then has the FCC or CISPR limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets at page 24 - 25. The CISPR 22 limit is equivalent to the Australian AS 3548 limit.

Example:

Frequency (MHz)	Level (dBµV)	+	Factor (dB)	=	Level (dBµV/m)	Limit (dBµV/m)	=	Delta (dB)
719	75	+	32.6	=	107.6	110	=	-2.4

Testresult in detail:

Frequency [MHz]	L: PK [dBµV]	L: AV [dBµV]	L: QP [dBµV]	Correct. * [dB]	L: PK [dBµV/m]	L: AV [dBµV/m]	L: QP [dBµV/m]	Limit [dBµV/m]
630.02	15.9	8.2	12.9	21.6	37.5	29.8	34.5	55.6

* Included -6.09 dB duty factor

Test result:

The requirements are

■ - MET

○ - NOT MET

Min. limit margin

21.1 dB

630.02 MHz

Min. limit margin

_____ dB

_____ MHz

Remarks:

The limits are met.

SPURIOUS EMISSION 1 GHz - 18 GHz

- Test not applicable

Testlocation :

- Open-site 1
- Open-site 2
- Anechoic chamber
- Full compact chamber

- 1 meters
- 3 meters
- 10 meters

For test instruments and test accessories used please see attachment B SER3

Description of Measurement

The final level, expressed in dBµV/m, is arrived by taking the reading from the Spectrumalyzer in dBµV and adding the correction factors of the test setup incl. cables.

Example of the correction value at 1.8 GHz

Level reading at 1.8 GHz	Correction EMCO 3115	correction Amplifier AWT 4534 + cable	Correction factor (summarized)	corrected level
56 dBµV	+27.3 dB	-41.2 dB	-15.8 dB	42.1 dBµV/m

Testresult in detail:

Frequency [MHz]	L: PK [dBµV]	L: AV [dBµV]	L: QP [dBµV]	Correct. * [dB]	L: PK [dBµV/m]	L: AV [dBµV/m]	L: QP [dBµV/m]	Limit [dBµV/m]
1571.14	63.2	49.6	-	-20.8	42.4	28.8	-	54.0
1889.78	65.9	57.1	-	-18.7	47.2	38.4	-	55.6
2202.40	61.3	47.8	-	-17.3	44.0	30.5	-	54.0
2521.04	55.2	46.9	-	-16.8	38.5	30.1	-	55.6

* Included -6.09 dB duty factor

Testresult

The requirements are

- MET

- NOT MET

Min. limit margin

17.2 dB

1889.78 MHz

Min. limit margin

_____ dB

_____ MHz

Remarks:

The limits are kept.

The measurement was performed up to the 10th harmonic.

FIELD STRENGTH OF THE FUNDAMENTAL WAVE

- Test not applicable

- Open-site 1
- Open-site 2
- 3 meters
- 10 meters
- 30 meters

For test instruments and test accessories used please see attachment B CPR2, MB

Description of Measurement

The final level, expressed in dBµV/m, is arrived by taking the reading from the EMI receiver (Level dBµV) and adding the correction factors and cable loss factor (Factor dB) to it. This is done automatically in the EMI receiver, where the correction factors are stored. This result then has the FCC or CISPR limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets at page 24 - 25. The CISPR 22 limit is equivalent to the Australian AS 3548 limit.

Example:

Frequency (MHz)	Level (dBµV)	+	Factor (dB)	=	Level (dBµV/m)	-	Limit (dBµV/m)	=	Delta (dB)
315	45	+	22.5	=	67.5	-	74.3	=	-6.8

Testresult in detail:

Frequency [MHz]	L: PK [dBµV]	L: AV [dBµV]	L: QP [dBµV]	Correct. * [dB]	L: PK [dBµV/m]	L: AV [dBµV/m]	L: QP [dBµV/m]	Limit [dBµV/m]
315.01	56.8	50.3	54.8	15.5	72.3	65.8	70.3	75.6

* Included -6.09 dB duty factor

Testresult

The requirements are

- MET

- NOT MET

Min. limit margin

5.3 dB

315.01 MHz

Min. limit margin

_____ dB

_____ MHz

Remarks: The limits are kept.

CONDUCTED POWER OF THE FUNDAMENTAL WAVE MEASURED ON THE ANTENNA TERMINALS

■ - Test not applicable

Testlocation :

- o - Shielded room no. 1
- o - Shielded room no. 2
- o - Shielded room no. 3
- o - Shielded room no. 4
- o - Shielded room no. 5
- o - Shielded room no. 6
- o - Shielded room no. 7
- o - Anechoic chamber
- o - Full compact chamber
- o - Climatic test chamber VLK

For test instruments and test accessories used please see attachment B CPC2

Description of Measurement

The conducted power of the fundamental wave measured on the antenna terminals in a climatic test chamber. The antenna jack was connected to the input of a communication test receiver. The internal batteries have been removed also and a variable DC power supply was used instead. The measurements have been made with the EuT unmodulated. During the test the supply voltage and the temperature were varied and applied simultaneously. The lower supply voltage was given by the manufacturer. In case the equipment was switching off before, the switch off voltage was used instead.

Testresult

The requirements are

o - MET

o - NOT MET

Frequency range of equipment								
Temperature °C	DC supply voltage V	Power dBm	Power dBm	Power dBm	Power dBm	Power dBm	Power dBm	Power dBm
-30								
-20								
-10								
0								
+10								
+20								
+30								
+40								
+50								

Remarks: Not applicable.

EQUIPMENT UNDER TEST

Operation - mode of the EuT.:

The equipment under test was operated during the measurement under following conditions:

- Standby
- Test program (H - Pattern)
- Test program (colour bar)
- Test program (customer specific)
- Transmit

Configuration of the equipment under test: see attachment D

Following periphery devices and interface cables were connected during the measurement:

- _____ Type : _____
- _____ Type : _____
- _____ Type : _____
- _____ Type : _____
- _____ Type : _____
- _____ Type : _____

- unshielded power cable
- unshielded cables
- shielded cables
- customer specific cables

MBPS.No.:

- _____
- _____

S U M M A R Y

GENERAL REMARKS:

The product 8Z0 837 231 F has been tested on the following frequency:
TX-Mode: 315 MHz

The unit measurements met also the bandwidth requirements.

The EuT complies with the requirements described under 15.231(a) regarding the activation/deactivation of the transmitter. The transmitter on time is smaller than 5 seconds after activation.

FINAL JUDGEMENT:

The requirements according to the technical regulations and tested operation modes are

- - met.
- o - **not** met.

The Equipment Under Test

- - **Fulfills** the general approval requirements according to page 3.
- o - **Does not** fulfill the general approval requirements according to page 3.

Date of receipt of test sample : accdg. to storage record of MBPS

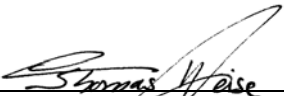
Testing Start Date : June 7, 2002

Testing End Date : July 11, 2002

- MIKES BABT PRODUCT SERVICE GmbH -

Test engineer :

i. A.

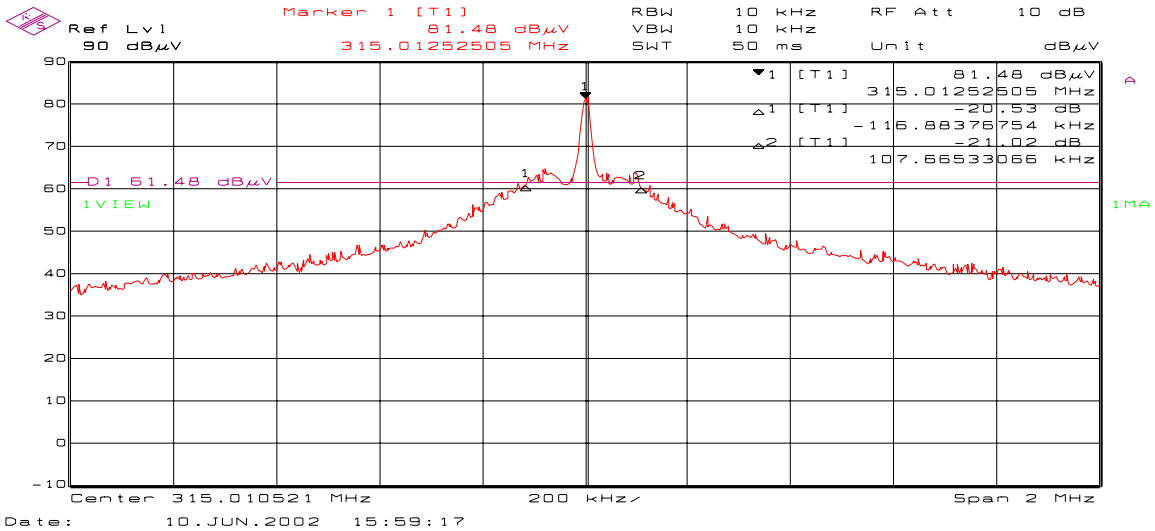
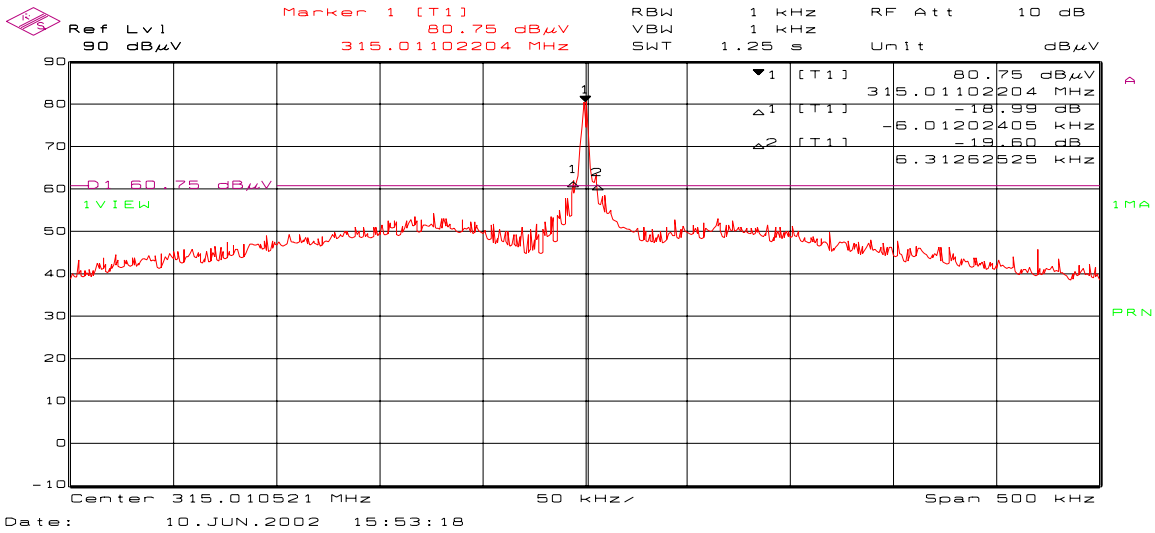
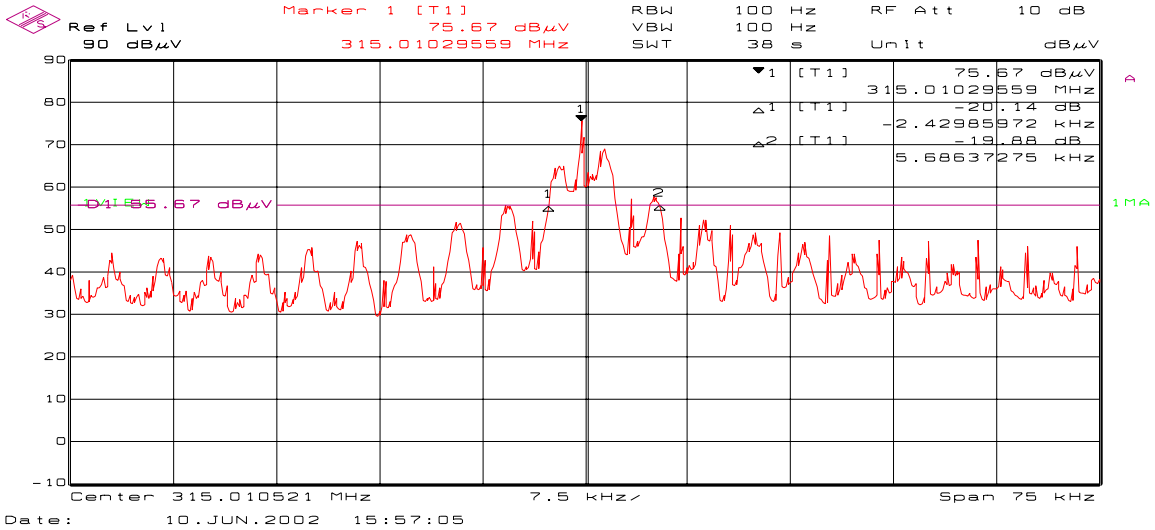


Günter Mikés
Dipl.Ing.(FH)

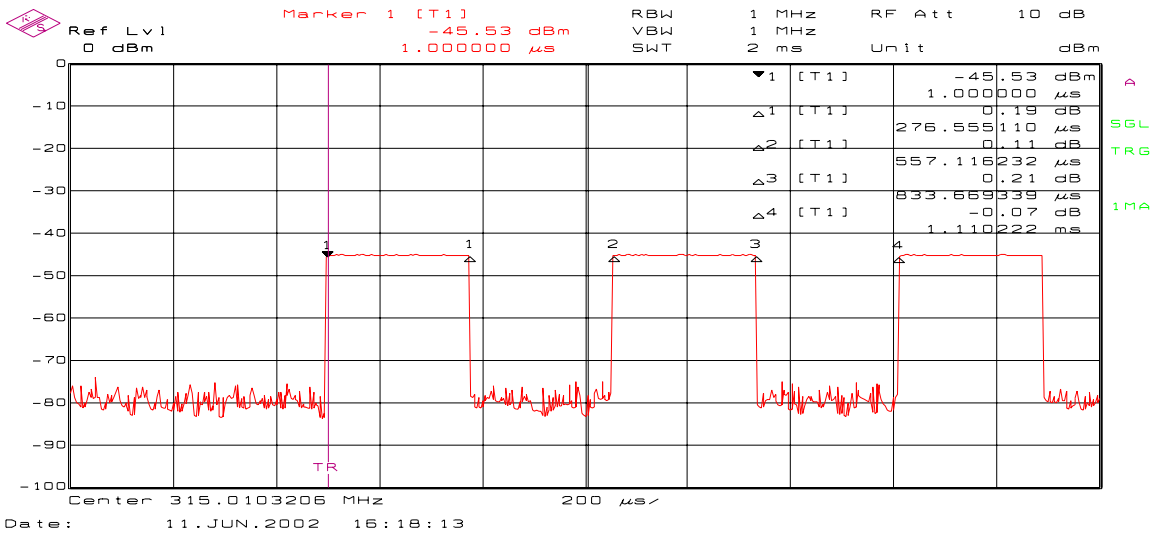
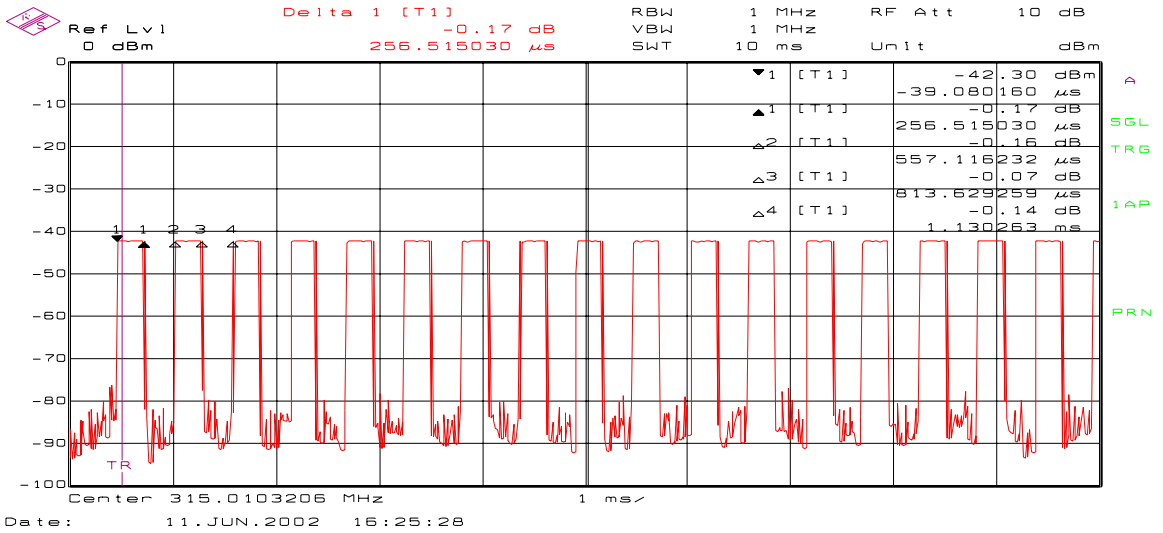
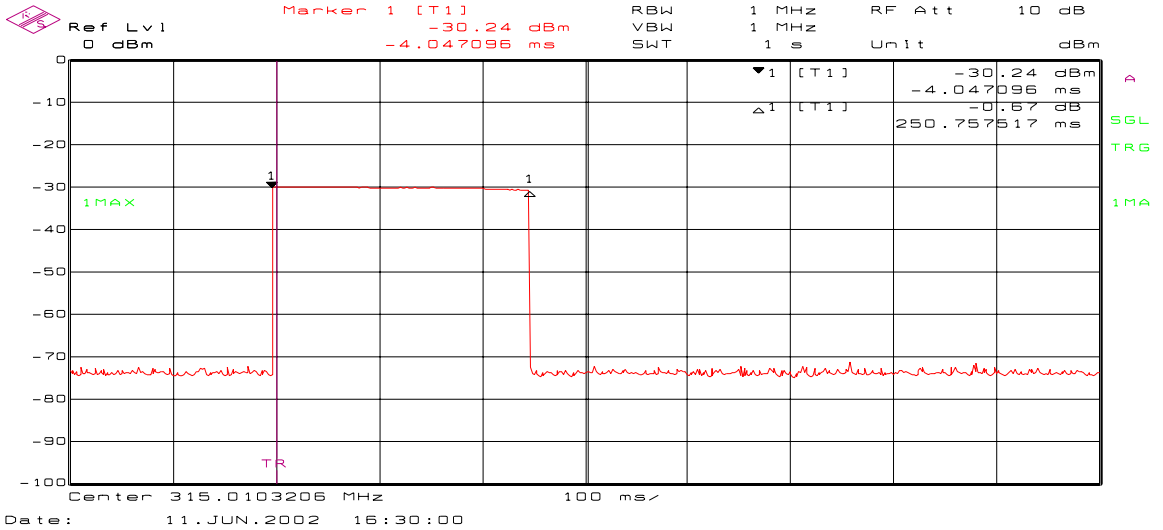


Josef Knab

Bandwidth plots



Correction for pulse operation



Attachment B: List of test equipment

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

TEST ID	Model Type	Kind of Equipment	Manufacturer	Equipment No.	Next Cal. Date
CPR2	Controller for Turntable	Controller	EMISYS Vertriebs GmbH	04-07/59-89-157	n/a
	HCC	Controller Ant.-Mast	Rohde & Schwarz München	04-07/59-97-001	n/a
	RG 214/U	RF Cable 2 m	Huber+Suhner	04-07/60-89-463	n/a
	HF 7/8 inch	Antenna Cable 13 m	Huber+Suhner	04-07/60-99-001	n/a
	HF 7/8 inch	Antenna Cable 20 m	Huber+Suhner	04-07/60-99-002	n/a
	HF 7/8 inch	Antenna Cable 40 m	Huber+Suhner	04-07/60-99-003	n/a
	KR - 200	Coax Antenna Switch	Rosenberger HF-Technik	04-07/60-99-004	n/a
	VULB - 9165	Super Broadband Antenna	Schwarzbeck Mess-Elektronik	04-07/62-00-001	10.03.2003
	ESVP	Test Receiver	Rohde & Schwarz München	04-07/63-89-008	18.02.2003
	ESVP-EZM	Spectrum Monitor	Rohde & Schwarz München	04-07/74-86-016	n/a
	Turntable 5 m	Turntable	EMISYS Vertriebs GmbH	04-07/92-88-155	n/a
	Antenna Mast	Antenna Mast	Rohde & Schwarz München	04-07/92-97-001	n/a
MB	433 MHz Antenna FSEM 30	Rod Antenna	MIKES PRODUCT SERVICE	04-07/62-97-002	n/a
		Spectrum Analyser	Rohde & Schwarz München	04-07/74-97-001	05.02.2003
SER2	Controller for Turntable	Controller	EMISYS Vertriebs GmbH	04-07/59-89-157	n/a
	HCC	Controller Ant.-Mast	Rohde & Schwarz München	04-07/59-97-001	n/a
	RG 214/U	RF Cable 2 m	Huber+Suhner	04-07/60-89-463	n/a
	HF 7/8 inch	Antenna Cable 13 m	Huber+Suhner	04-07/60-99-001	n/a
	HF 7/8 inch	Antenna Cable 20 m	Huber+Suhner	04-07/60-99-002	n/a
	HF 7/8 inch	Antenna Cable 40 m	Huber+Suhner	04-07/60-99-003	n/a
	KR - 200	Coax Antenna Switch	Rosenberger HF-Technik	04-07/60-99-004	n/a
	VULB - 9165	Super Broadband Antenna	Schwarzbeck Mess-Elektronik	04-07/62-00-001	10.03.2003
	ESVP	Test Receiver	Rohde & Schwarz München	04-07/63-89-008	18.02.2003
	ESVP-EZM	Spectrum Monitor	Rohde & Schwarz München	04-07/74-86-016	n/a
	Turntable 5 m	Turntable	EMISYS Vertriebs GmbH	04-07/92-88-155	n/a
	Antenna Mast	Antenna Mast	Rohde & Schwarz München	04-07/92-97-001	n/a
SER3	Sucoflex 104, SMA	RF Cable 2 m	Huber+Suhner	04-07/60-97-485	n/a
	Sucoflex 104, N	RF Cable 3 m	Huber+Suhner	04-07/60-97-492	n/a
	Model 3115	Horn Antenna	EMCO Elektronik GmbH	04-07/62-96-458	n/a
	AWT-4534	Microwave Amplifier	TransTech Hochfrequenztechnik	04-07/66-90-217	n/a
	FSEM 30	Spectrum Analyser	Rohde & Schwarz München	04-07/74-97-001	05.02.2003

Attachment D: Constructional dataform for testing of radio equipment

Licence holder:	Conti Temic microelectronic GmbH		
Address:	Germany, 85057 Ingolstadt, Ringlerstraße 17		
Manufacturer:	Conti Temic microelectronic Phils. Inc.		
Address:	Temic Building, Bagsakan Rd., FTI-Estate, 1630 Taguig, Metro Manila, Philippinen		
Type:	Transmitter 315 MHz		
Model:	8Z0 837 231 F		
Serial-No.:	1993	Protection class:	

Additional informations to the above named model:

Antenna: transmitter:	Type: printed antenna		
	Length/size: loop antenna about 8 cm		
receiver:	Type: -----		
	Length/size: -----		
Power supply of the transmitter: Type:	1 x Lithium battery	nominal voltage:	3.0 V
		lowest voltage:	2.2V
		highest voltage:	3.5 V
		current consumption	A
Power supply of the receiver: Type:		nominal voltage:	V
		current consumption	A

Ancillary equipment:

Description: _____	Type: _____	Serial-no.: _____
Description: _____	Type: _____	Serial-no.: _____
Description: _____	Type: _____	Serial-no.: _____

Extreme temperature range in which the approval test should be performed:

- Category I: General (-20°C to +55°C)
- O Category II: Portable (-10°C to +55°C)
- O Category III: Equipment for normal indoor use (0°C to +55°C)

Connectable cables:

Name of the cable	Digital	Length/m	shielded
none	O yes O no		O yes O no
	O yes O no		O yes O no
	O yes O no		O yes O no
	O yes O no		O yes O no

Attachment D: Constructional dataform for testing of radio equipment

Type designation: Transmitter 315 MHz (8Z0 837 231 F)			
Name and type designation of individual units comprising the radio equipment: Transmitter 315 MHz for keyless entry systems			
Type of equipment:			
<input type="checkbox"/> Radiotelephone equipment	<input checked="" type="checkbox"/> Remote-control equipment	<input type="checkbox"/> Radiomaritime equipment	<input type="checkbox"/> LPD
<input type="checkbox"/> One-way radiotelephone equipment	<input type="checkbox"/> Inductive loop system	<input type="checkbox"/> Inland waterways equipment	<input type="checkbox"/> RLAN
<input type="checkbox"/> Personal paging system	<input type="checkbox"/> Radio-relay system	<input type="checkbox"/> Radionavigation equipm.	<input type="checkbox"/>
<input type="checkbox"/> Satellite earth station	<input type="checkbox"/> CB radiotelephone equipment	<input type="checkbox"/> Antenna	<input type="checkbox"/>
<input type="checkbox"/> Data transmission equipment	<input type="checkbox"/> Movement detector	<input type="checkbox"/> Aeronautical equipment	<input type="checkbox"/>
Technical characteristics:			
	Transmitter-receiver	Transmitter	Receiver
Frequency range		315 MHz +- 100 kHz	
Maximum no. of channels		1	
Channel spacing		-----	
Class of emission (type of modulation)		K1D	
Maximum RF output power		-----	
Maximum effective radiated power (ERP)		0.030 mW	
Output power variable		-----	
Channel switching frequency range		-----	
Method of frequency generation	Crystal stabilized PLL ocillator		<input type="checkbox"/> Other
Frequency generation TX	9.8437 MHz crystal		
Frequency generation RX	-----		
IF	1st IF	2nd IF	3rd IF
Integral selective calling			
Audio-frequency interface level at external data socket			
Modes of operation	<input type="checkbox"/> Duplex mode	<input type="checkbox"/> Semi-duplex mode	<input checked="" type="checkbox"/> Simplex mode
Power source	<input type="checkbox"/> Mains	<input type="checkbox"/> Vehicle-regulated	<input checked="" type="checkbox"/> Integral
Antenna socket	<input type="checkbox"/> BNC <input type="checkbox"/> M <input checked="" type="checkbox"/> None	<input type="checkbox"/> TNC <input type="checkbox"/> UHF <input type="checkbox"/>	<input type="checkbox"/> N <input type="checkbox"/> Adapter <input type="checkbox"/>
Test specifications: ETS 300220, ETS 300683			

Attachment D: Constructional dataform for testing of radio equipment

Declarations:

- We declare that the above information are correct and the named model was supplied with the maximum configuration to the accredited test laboratory.

Ingolstadt, date 12. June 2002
place of issue

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Seal and signature of applicant