

EMISSION -- TESTREPORT

Testreport file no. T 20670-1-01 NF Date : July 17, 2001 of issue Model / Type No. : RC48T1-27 Kind of product : Remote Control (Audio / Video Products) Applicant : Bose Corporation Manufacturer : Bose Corporation Licence holder : Bose Corporation Address : The Mountain Framingham, MA, 01701, USA

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

This testreport with appendix consists of 29 pages. The testresult only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the testlaboratory.

POSITIVE

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TESTREGULATIONS

The tests were performed according to following regulations :

o - EN 50081-1 o - EN 50081-2			
o - EN 55011	/ 3.1991	o - Group 1 o - class A	o - Group 2 o - class B
o - EN 55014	/ 4.1993	o - Household appliances ando - toolso - Semiconductor devices	similar
o - EN 55014 o - EN 55104		Category:	
o - EN 55015 o - EN 55015			
o - EN 55022	/ 5.1995	o - class A	o - class B
o - prEN 55103-1 o - prEN 50121-3-2 o - EN 60601-1-2	/ 3.1995		
o - VCCI		o - class 1	o - class 2
Part 15 SubpartPart 15 Subpart			

ADDRESS OF THE TEST LABORATORY

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

ENVIRONMENTAL CONDITIONS

POWER SUPPLY SYSTEM UTILIZED

Power supply system : Battery Unom = 6.0 V DC

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 that can account for a nominal measurement error of $\pm 4dB$. 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 Remote Control to operate audio and video units/systems.

Number of received/tested samples: 1 / 1

Serial Number: Preproduction Sample

DEFINITIONS FOR SYMBOLS USED IN THIS TEST REPORT

 \blacksquare - Black box indicates that the listed condition, standard or equipment is applicable for this Report.

o - Blank box indicates that the listed condition, standard or equipment was not applicable for this Report.

MEASUREMENT PROTOCOL FOR FCC, VCCI

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 Error

The test system for conducted emissions is defined as the LISN, tuned receiver and coaxial cable. The test system for spurious emissions is defined as the antenna, the pre-amplifier, the tuned receiver and the coaxial cable. These test systems have an expected error of ±3 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 it's 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 testresults.

DISCOVERY OF WORST CASE MEASUREMENT CONDITION:

The Remote Control RC48T1-27 is designed for the operation at a fixed transmitter frequency of 27.145 MHz. 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 Remote Control.
- 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 Remote Control

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

TESTRESULT

CONDUCTED EMISSIONS - 10/150 kHz - 30 MHz

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
- Anechoic chamber

o - Full compact chamber

For TEST EQUIPMENT USED please refer to ATTACHMENT B:

Description of Measurement

The final level, expressed in $dB\mu V$, 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 dB μ V and μ V, the following conversions apply:

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

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 quasipeak detection, and a Line Impedance Stabilization Network (LISN), with $50\Omega/50~\mu\text{H}$ (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeters above the floor and is positioned 40 centimeters 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 quasipeak and average detection and recorded on the data sheets.

Testresult

The requirements are	O - MET		(O - NOT ME	T
Min. limit margin		dВ	at		MHz
Max. limit exceeding		dВ	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 quasipeak 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~VMT

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centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters 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 polarizations and the EUT are rotated 360 degrees.

SPURIOUS EMISSION (MAGNETIC FIELD) 9 kHz - 30 MHz

lacksquare - Test not applicable

o - in a shielded room
o - at a non - reflecting open-site

o - in a testdistance of 3 meters.

o - in a testdistance of 30 meters.

For TEST EQUIPMENT USED please refer to ATTACHMENT B: SER1

Description of Measurement

The final level, expressed in $dB\mu V/m$, is arrived at by taking the reading from the EMI receiver (Level $dB\mu V$) 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	Level	+	Factor	=	Level	Limit	=	Delta
(MHz)	(dBµV)		(dB)		(dBµV/m)	(dBµV/m)	(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 requireme	ents are	O - MET	O - NOT MET
Min. limit ma	argin	dB	MHz
Min. limit ma	argin	dB	MHz
Remarks:			<u>-</u> -
			-

SPURIOUS EMISSIONS (electric field) 30 MHz - 1000 MHz

o - Test not applicable

■ - Open-site 1

o - Open-site 2

■ - 3 meters

o - 10 meters o - 30 meters

For TEST EQUIPMENT USED please refer to ATTACHMENT B:

SER2

Description of Measurement

The final level, expressed in $dB\mu V/m$, is arrived by taking the reading from the EMI receiver (Level $dB\mu V$) 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	Level	+	Factor	=	Level	Limit	=	Delta
(MHz)	(dBµV)		(dB)		(dBµV/m)	$(dB\mu V/m)$	(dB)	
719	75	+	32.6	=	107.6	110	=	-2.4

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]
81.7	21.0	1.0	17.0	13.5	34.5	14.5	30.5	40.0

Testresult

The requireme	ents are	- MET		0	- NOT MET	:
Min. limit ma	argin	9.5	dВ		81.7	MH2
Min. limit ma	argin		dB			MH2
Remarks:	The limits are kept.					
	The measurement was performed up to the	10 th harmonic				
	(271.45 MHz)					

SPURIOUS EMISSION 1 GHz - 18 GHz

- Test not applicable

Testlocation :

o - Open-site 1 o - Open-site 2

o - Anechoic chamber

o - Full compact chamber

o - 1 meters o - 3 meters

o - 10 meters

For TEST EQUIPMENT USED please refer to ATTACHMENT B:

Description of Measurement

The final level, expressed in $dB\mu V/m$, is arrived by taking the reading from the Spectrumanalyzer in $dB\mu V$ and adding the correction factors of the test setup incl. cables.

Example of the correction value at 1.8 GHz

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

Testresult in detail:

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

Testresult

The requirements are	O - MET	O - NOT MET
Min. limit margin	dB	MHz
Min. limit margin	dB	MHz
Remarks: NOT APPLICABLE		_
		_

FIELD STRENGTH OF THE FUNDAMENTAL WAVE

 Test not applicable 	0	_	Test	not	applicable	
---	---	---	------	-----	------------	--

■ - Open-site 1

o - Open-site 2

■ - 3 meters

o - 10 meters o - 30 meters

For TEST EQUIPMENT USED please refer to ATTACHMENT B:

CPR2

Description of Measurement

The final level, expressed in $dB\mu V/m$, is arrived by taking the reading from the EMI receiver (Level $dB\mu V$) 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	Level	+	Factor	=	Level	- Limit	=	Delta
(MHz)	(dBµV)		(dB)		(dBµV/m)	(dBµV/m	(dB)	
315	45	+	22.5	=	67.5	- 74.3	=	-6.8

Testresult in detail:

Frequency	L: PK	L: AV	L: QP	Correct.	L: PK	L: AV	L: QP	Limit
[MHz]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dBµV/m]
27.145	55.0	35.0	50.8	+11	66.0	46.0	61.8	80.0

Testresult

The requirements are	■ - MET	O - NOT MET
Min. limit margin	_>10.0 dB	27.145 MHz
Min. limit margin	dB	MHz
Remarks: The limits are kept. Duty factor c	correction was not calculated,	
because the Peak-level meets the A	V-limit.	

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 EQUIPMENT USED please refer to ATTACHMENT B:

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

	cy range of ipment							
Tempera- ture/°C	DC supply voltage/V	Power/dBm						
-30								
-20								
-10								
0								
+10								
+20								
+30								
+40								
+50								

Remarks: NOT APPLICABLE

EQUIPMENT UNDER TEST

The	eration - mode of the EUT.: e equipment under test was operated during the measurement under following the measurement under f	ıg
0	- Standby	
0	- Testprogram (H - Pattern)	
0	- Testprogram (color bar)	
0	- Testprogram (customer specific)	
■.	- Transmit at a fixed frequency of 27.145 MHz.	
0 _	-	
0 =	·	
Fo.	nfiguration of the equipment under test: Llowing periphery devices and interface cables were connected during measurement:	
0	Type :	
0		
0		
0	Type :	
0	Type :	
0		
0	- unshielded power cable	
0	- unshielded cables	
0	- shielded cables MPS.No.:	
0-	customer specific cables	
0		

SUMMARY

GENERAL REMARKS:

The product RC48T1-27 has been tested on the following frequency: TX-Mode: $27.145~\mathrm{MHz}$

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 cited on page 3.
- o Does not fulfill the general approval requirements cited on page 3.

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

Testing Start Date : <u>May 30, 2001</u>

Testing End Date : Juni 12, 2001

- MIKES BABT PRODUCT SERVICE GmbH -

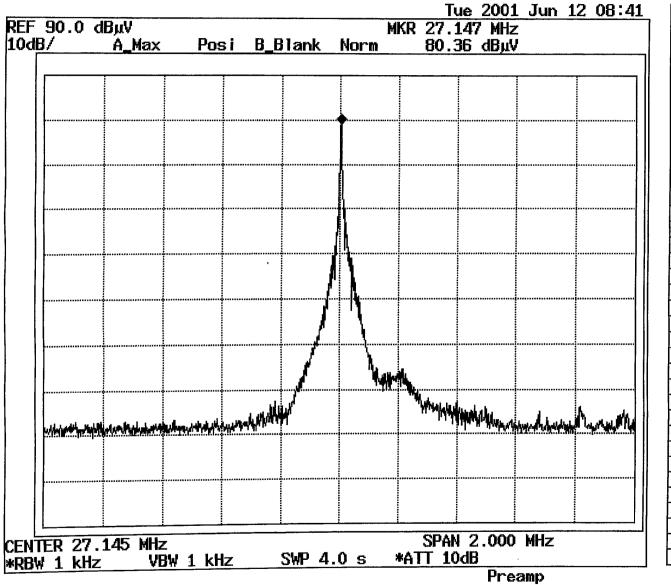
Günter Mikes

i.V.

Dipl.-Ing.(FH)

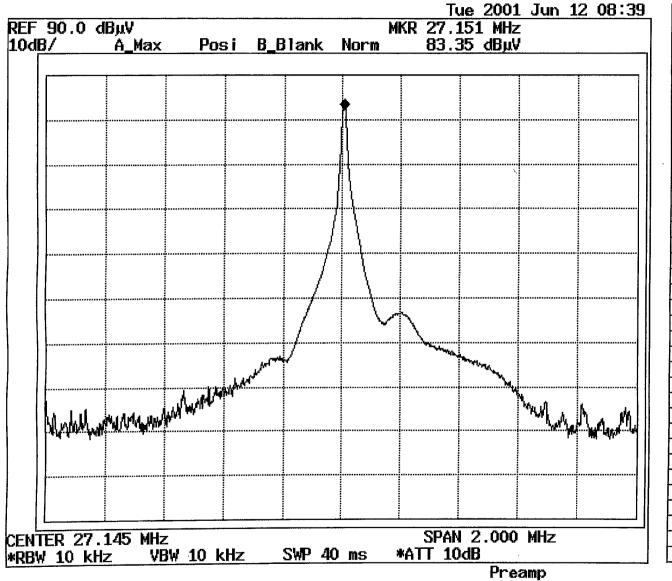
Test-engineer

Nikolaus Fischer



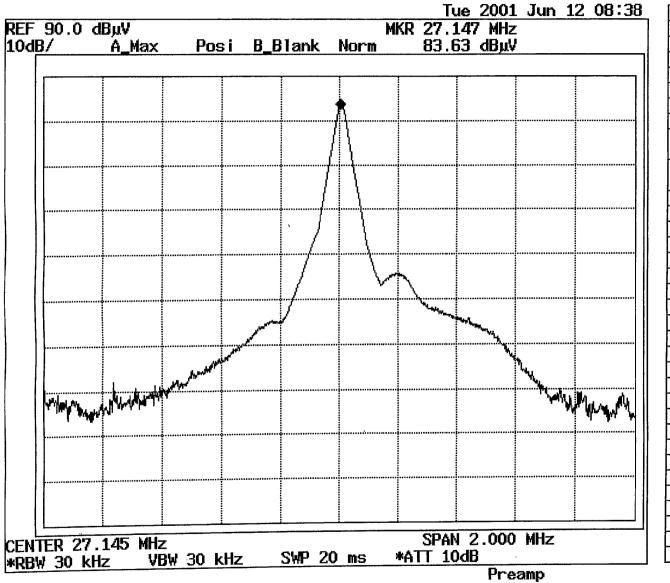
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Gerät: REMOTE CONTROL										
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Messung: MBW										
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A1 OF A4



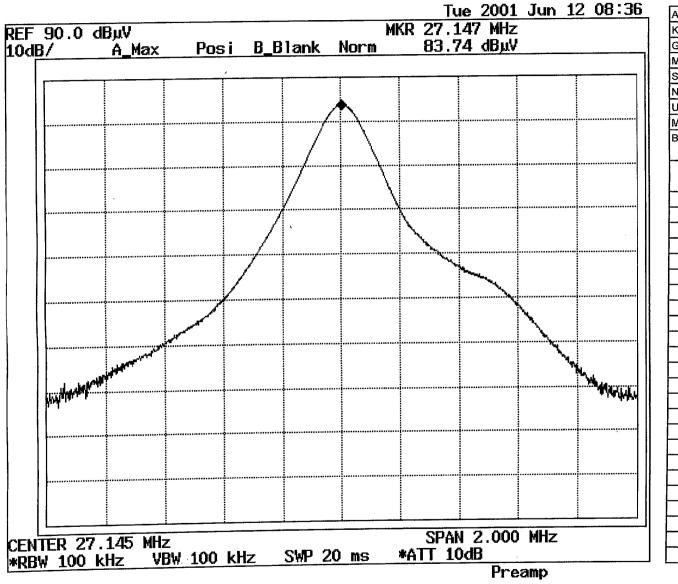
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A3 OF A4



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A4 OF A4



Attachment: B

List of Test Equipment

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

Test Report No:

T 20670-1-01 NF

Beginning of Testing:

30-Mai-2001

Test ID	Model Type	Kind of Equipment	Manufacturer	Equipment No.
CPR2	HCC	Controller AntMast	Rohde & Schwarz München	04-07/59-97-001
	RG 214 U	Antenna cable 2 m	Huber+Suhner	04-07/60-89-463
	HF 7/8 inch	Antenna cable 13 m	Huber+Suhner	04-07/60-99-001
	HF 7/8 inch	Antenna cable 20 m	Huber+Suhner	04-07/60-99-002
	HF 7/8 inch	Antenna cable 40 m	Huber+Suhner	04-07/60-99-003
	KR - 200	Coax Antenna Switch	Rosenberger HF-Technik	04-07/60-99-004
	VULB - 9165	Super-Broadband-Anten	Schwarzbeck G.	04-07/62-00-001
	ESVP	Test Receiver	Rohde & Schwarz München	04-07/63-89-008
	ESVP-EZM	Spectrum Monitor	Rohde & Schwarz München	04-07/74-86-016
	Antennenmast	Antenna mast	Rohde & Schwarz München	04-07/92-97-001
MB	27 MHz-Antenna	Rod Antenna	MIKES PRODUCT SERVICE	04-07/62-97-001
	R 3162	Spectrum Analyzer	Advantest	04-07/74-00-001
SER2	HCC	Controller AntMast	Rohde & Schwarz München	04-07/59-97-001
	RG 214 U	Antenna cable 2 m	Huber+Suhner	04-07/60-89-463
	HF 7/8 inch	Antenna cable 13 m	Huber+Suhner	04-07/60-99-001
	HF 7/8 inch	Antenna cable 20 m	Huber+Suhner	04-07/60-99-002
	HF 7/8 inch	Antenna cable 40 m	Huber+Suhner	04-07/60-99-003
	KR - 200	Coax Antenna Switch	Rosenberger HF-Technik	04-07/60-99-004
	VULB - 9165	Super-Broadband-Anten	Schwarzbeck G.	04-07/62-00-001
	ESVP	Test Receiver	Rohde & Schwarz München	04-07/63-89-008
	ESVP-EZM	Spectrum Monitor	Rohde & Schwarz München	04-07/74-86-016
	Antennenmast	Antenna mast	Rohde & Schwarz München	04-07/92-97-001

CONSTRUCTIONAL DATAFORM FOR TESTING OF RADIO EQUIPMENT

Licence holder:	Bose Corporation			
Address:	The Mountain, Framingham, MA, 01701, USA			
Manufacturer:	Bose			
Address:				
Type:	Remote control			
Model:	RC28T1-27, RC28T2-27, RC28S2-27 RC48T1-27, RC48T2-27, RC48S2-27			
Serial-No.:		Protection class:	III	

Additional informations	to:	the	above	named	model:
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Antenna:				
transmitter:	Type: Internal			
	Length/size: 45mm			
receiver:	Type: Not applicable			
Danier and backle to a series	Length/size: Not applic	cable		
Power supply of the transmitter: Type:	Battery (AAA x 4)	nominal voltage:	6.0 V	
		lowest voltage:	v	
		highest voltage:	v	
Power supply of the receiver:				
Type:		nominal voltage:	V	

Ancillary equipment:

Description:	None.	Type:		Serial-no.:	
Description:		Type:		Serial-no.:	
Description:		Type:	•	Serial-no.:	

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

X 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 If applicable, if necessary complete overleaf

Page D1

MIKES BABT PRODUCT SERVICE GmbH Ohmstr. 2-4 D-94342 Strasskirchen Tel.: +49 94 24 94 07-0 Fax.: +49 94 24 94 07-60

Rev.No.: 2.1



Applicant: BOSE

Model-name: RC 28 / 48

Type designation:					
RC28T1-27, RC28T2					
RC48T1-27, RC48T2	on of individual units comp				
Name and type designation	m or marvidual units comp	rising the radio equipment			
Type of equipment:					
☐ Radiotelephone	X Remote-control	☐ Radiomaritime	□ LPD		
equipment	equipment	equipment			
☐ One-way	☐ Inductive loop system	□ Inland waterways	□ RLAN		
radiotelephone		equipment			
equipment Personal paging	☐ Radio-relay system	☐ Radionavigation			
system	Li riadio rolay dyotom	equipm.			
☐ Satellite earth station	☐ CB radiotelephone	☐ Antenna			
	equipment		_		
☐ Data transmission	☐ Movement detector	☐ Aeronautical			
equipment		equipment			
Technical characteristics:					
P .	Transmitter-receiver	Transmitter	Receiver		
Frequency range		27.145 MHz			
Maximum no. of channels Channel spacing		10.64-			
Class of emission		10 kHz 10K0A1D	 		
(type of modulation)	:	IONOATO			
Maximum RF output power					
Maximum effective		-10 dBm			
radiated power (ERP)					
Output power variable Channel switching					
frequency range		*****			
		L			
Method of frequency	☐ Synthesizer	X Crystal	☐ Other		
generation					
Frequency generation TX Frequency generation RX					
IF	1st IF	2nd IF	3rd IF		
	13111	[ZIIU IF	Sid IF		
Integral selective calling					
Audio from on interfere					
Audio-frequency interface level at external data					
socket					
Modes of an audit	D. D. Harris		N al		
Modes of operation	☐ Duplex mode	☐ Semi-duplex mode	X Simplex mode		
Power source	☐ Mains	☐ Vehicle-regulated	X Integral		
Antenna socket	□ BNC	☐ TNC	□ N		
	☐ M X None	□ UHF	☐ Adapter ☐		
Test specifications:	IN NOTE.		breat		
•					

O If applicable, if necessary complete overleaf

Page D 2

MIKES BABT PRODUCT SERVICE GmbH Ohmstr. 2-4 D-94342 Strasskirchen Tel.: +49 94 24 94 07-0 Fax.: +49 94 24 94 07-60

Rev.No.: 3.2

Applicant: BOSE

Model-name: RC 28 / 48

Declarations:

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

Frankfam MA date 28 JW01

Seal and signature of applicant