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Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO) Tel. +39 03135000.11 Fax +39 031991309

EQUIPMENT UNDER TEST : **TRANSMITTER mod. TF1**
APPARECCHIO IN PROVA :

REFERENCE STANDARDS :
NORME DI RIFERIMENTO : **FCC 47CFR Part 15**

CUSTOMER:

RICHIEDENTE:

- **Dept. / Firm :** *Ente / Società':* *MARCO S.p.A.*
- **Mr.:** *Sig.:* *Dr. MATTEO CIAVARELLA*
- **Address:** *Indirizzo:* *VIA MAMELI, 28 – 25014 CASTENEDOLO (BS) - ITALY*
- **Tel.** : *Telefono :* *++39 030/21341* • **Telefax:** *Fax :* *++39 030/2134300* • **E-mail:** *e-mail* *matteo.ciavarella@marco.it*

Site of test execution: Via Campagna, 92 - 22020 Gaggino Faloppio (CO)
Località esecuzione prove:

Date of test samples receipt: **14/10/03**
Data ricevimento campioni:

Date of start test: **14/10/03**
Data inizio prove:

Date of end test: **11/05/04**
Data fine prove:

Witness to the test:
Presenti alle prove:

Nobody / Nessuno
…….

Signature of the engineers:
Firma esecutore prove:

R. Radice
……

Signature of the Laboratory Director:
Firma Direttore Laboratori:

R. Furfari
……

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1. TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

1.1 Identification

Brand name:	MARCO S.p.A.
Customer:	SIRENA S.p.A.
Equipment :	TRANSMITTER
Model name or No. :	TF1
Serial number :	Not present
FCC ID :	R8M-TF1
Country of manufacturer:	ITALY

1.2 Technical data

FCC class:	Intentional Radiators
Supply voltage:	Internal Alkaline Battery 9V
Input Power / Current :	3mA
Typical usage :	Remote control of swivel light beam
Transmitter Operation	Conform with section 15.231 (a)(1)
	Transmitter cease transmission immediately after being released.
EUT single or system:	Single
EUT dimensions :	14,7 x 4,8 x 4,3 cm.

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1.3 Transmitter technical data

TRANSMITTER	
• Working Frequency :	433,92 MHz
• Frequency Range of Operation :	433,05 ÷ 434,79 MHz
• Antenna type :	integral
• Modulation :	ASK

1.4 Modifications incorporated in E.U.T.

The following items are the modifications introduced in the equipment under test :

- Modified value of these component:

R3= 33kΩ

R4= 66kΩ

R10= 33kΩ

C4= 3,9pF

C2= 0,5pF

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1.5 Ports identification

This section contains descriptions of all signal ports and AC/DC power input/output ports, the length and the type of the cable provided by manufacturer needed for the tests.

Moreover it is specified if the ports are ever or optionally connected.

Port		Description	Connection
1	Enclosure	Plastic surface	By 4 screws
2	AC power input/output ports	Line not present	********
3	DC power input/output ports	Internal alkaline battery 9V	Battery support
4	Signals ports	Line not present	********
Note: During the tests all cables must be what provided the manufacturer or the same that used in the real employment of the EUT.			

1.6 Auxiliary equipment

No auxiliary equipment

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2. TEST CONDITIONS

2.1 Operating test modes and test conditions

The equipment has been tested according to the operative conditions described in the user/installation manual provided by the manufacturer and by following reference standards :

Reference Standard:

- FCC Part 15, Subpart C, Section 15.231

In the following table there are the operating conditions adopted during tests identified by an indicator (#..) at which has been referred the item “Operating condition of the equipment under test” of all technical sheets of the tests (see Section 4)

Operating condition	*Description*
#1	*Continuous transmission of bit stream.*

2.2 Test overview

Sample tested is the main model of a complete set of 433,92 MHz RF transmitters (see also Section 7).

The appliance is classified as “*intentional radiator”* in conformity to FCC Part 15 Sub. A §15.201, and it is subject to “*Certification*” procedure.

The application is mainly used as remote control for swivel light beam, activated pushing its buttons; the deactivation of RF signal happens releasing the command pressure.

It is possible to declare that the appliance it is subject to additional requirements stated in §15.231.

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3. REFERENCE STANDARD FOR PERFORMED TESTS

Reference standard :	*Title :*
FCC Part 15 part A	Code of Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)
FCC Part 15 part C	Code of Regulations Part 15 (Radio Frequency Devices), Subpart C (Intentional Radiators) of the Federal Communication Commission (FCC)
ANSI C63.4	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz

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4. SUMMARY OF TEST RESULTS

4.1 Tests

	Port	Phenomena	Operating condition[1]	Result
1	Enclosure	Radiated emission	#1	Within the limit
		Frequency stability	#1	Within the limit
2	AC mains Input ports	RF Disturbance voltage: • continuous	Not applicable[2]	
		Bandwidth of emission	Not applicable[2]	
3	DC Power supply and Battery	Bandwidth of emission	#1	Within the limit

[1] Ref. Tab. of Section 2

[2] Not applicable: port not present in acc. To §15.207 (d)

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4.2 Emission limits

Acc. to §15.231 (b) the field strength of emission from intentional radiator with periodic operation in the band 40.66-40.70 MHz and above 70 MHz are as follows:

Frequency (MHz)	Field Strength of fundamental at a distance of 3m (μV/m)	Field Strength of spurious emission at a distance of 3m (μV/m)
40,66 – 40,70	2250	225
70 – 130	1250	125
130 - 174	1250 – 3750 (linear interpolations)	125 – 375 (linear interpolations)
174 – 260	3750	375
260 – 470	3750 – 12500 (linear interpolations)	375 – 1250 (linear interpolations)
Above 470	12500	1250

According to §15.209 all the other emission of the appliance shall not exceed the following levels:

Frequency (MHz)	Field Strength at a distance of 3m (μV/m)
30 - 88	100 **
88 – 216	150 **
216 – 960	200 **
Above 960	500

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permItted under other sections of this part, e.g., §§ 15.231 and 15.241.

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5. TEST RESULTS

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TEST 1.

TX – RADIATED FIELD 30 - 1000 MHZ

REFERENCE DOCUMENT

FCC PART 15 subpart C

- **TEST LOCATION:** Semi-anechoic chamber
- **TEST EQUIPMENT USED FOR TEST:** EMI receiver Rohde & Schwarz Mod. ESVP (20–1000 MHz)
  Biconical Antenna Rohde & Schwarz Mod. HK116
  Log-periodic Antenna Rohde & Schwarz Mod. HL223
  Chase Antenna Mod. CBL 6111 A
- **TESTED PORT:** Enclosure
- **EMISSION LIMITS:** Acc. to Section 15.209 & 15.231 of reference document
- **UNCERTAINTY OF MEASURE:** Combined uncertainty = ± 1.75 dB
  Total uncertainty = (k=2) ± 3.5 dB

TEST CONDITIONS:			**MEASURED**
Ambient temperature :	15 - 35 °C		24 ± 3 °C
Ambient humidity :	25 - 75 %rH		40 ± 5 %rH
Pressure :	85 - 106 kPa	(860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage :	9 Vdc		9 Vdc

OPERATING CONDITION (Rif. Section. 2) : #1

RESULT: WITHIN THE LIMIT

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SCAN TABLE : "Radiated Emission"

Unit:	dBμV/m		
	Detector : Mode:		
Curve1:	Max Peak ClearWrite		
Curve2:	Avg ClearWrite		
Subrange1:			
Start Frequency:	30.0 MHz	Step Size:	80 kHz
Stop Frequency:	1000.0 MHz		
Measure Time:	0.01 sec.		
IF Bandwidth:	120 kHz		
Receiver:	ESVP	Probe Transducer:	CHASE_6111_PRC
Signal Path:	Path 4	System Transducer:	RFin2-CP1/X11
Scan Mode:	Lin	Add. Transducer:	W71.01
Tracking Gen.:	Off		
Input:	2 DC		
Preamplifier:	10 dB	Demodulation:	FM Broad
RF att.:	Coupled	Volume:	0.0%
Ref. Level:	-50 dBm	Squelch:	--
Min. RF att.:	0 dBm	Option:	None
Autorange:	On		
Curve 1:	On	Repetition:	Single
Curve 2:	On	Stop Mark:	On
		Stop Message:	On
		Text:	Connect antenna

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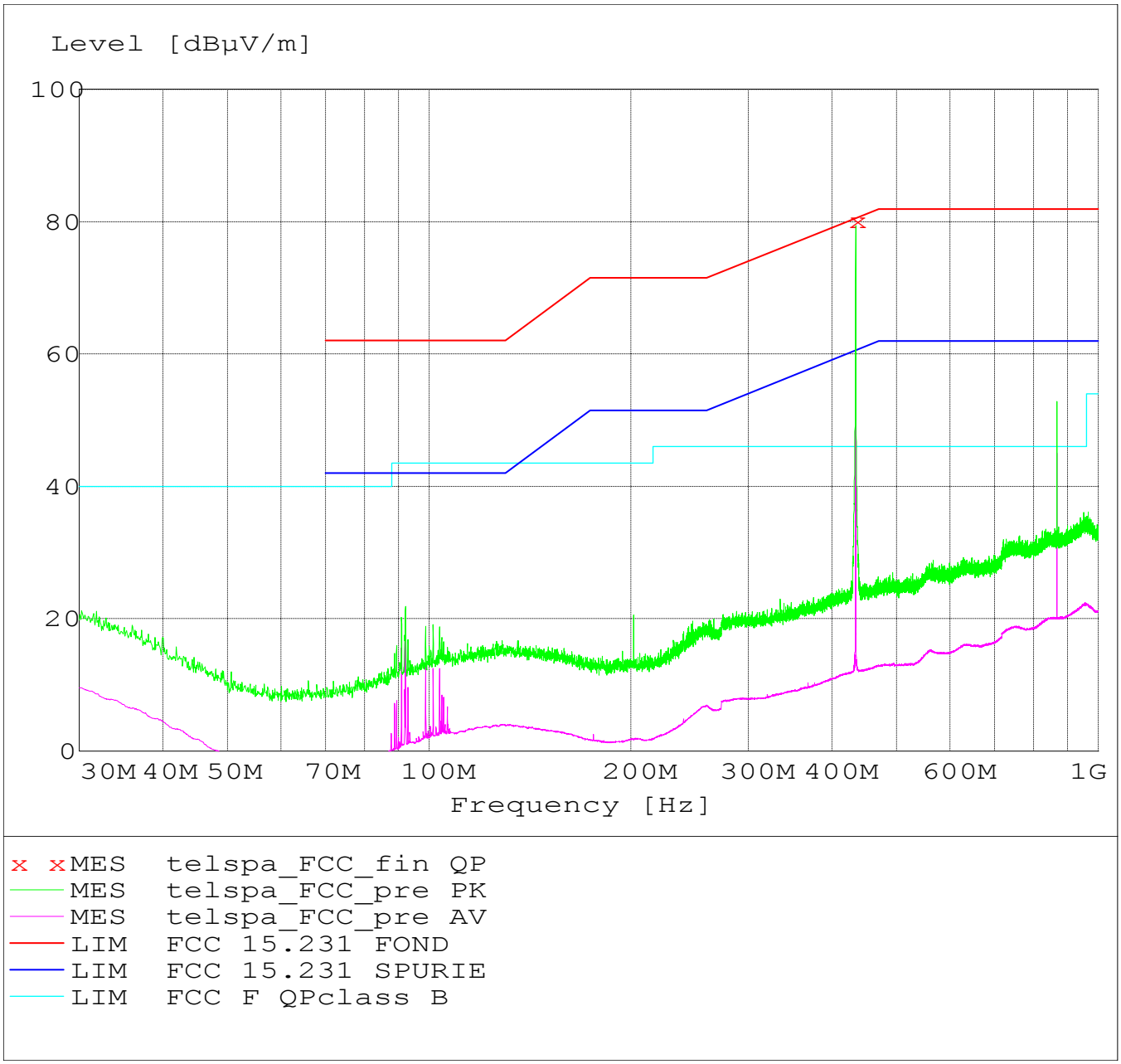

Frequency [MHz]	*Remark*	*QP Level [dBµV/m]*	*Limits [dBµV/m]*	*Margin [dB]*	Measured level - Antenna Polarisation
433.92000	Fundamental	80.20	80.52	0,32	HORIZONTAL
867.92000	Spurious	52.79	61.94	9,15	HORIZONTAL

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TEST 2.

TX – SPURIOUS EMISSION 1000 - 5000 MHZ

REFERENCE DOCUMENT FCC PART 15 subpart C

- **TEST LOCATION:** Semi-anechoic chamber
- **TEST EQUIPMENT USED FOR TEST:** Spectrum Analyzer Rohde & Schwarz Mod. FSP (9kHz-40GHz)
  Double Ridged Guide Antenna Electro-metrics mod. EM-6961
  Log-periodica Broadband Antenna mod. HL025
- **TESTED PORT:** Enclosure
- **EMISSION LIMITS:** Acc. to Section 15.209 of reference document
- **FREQUENCY BAND :** Fundamental Frequency to 10th harmonics acc. to §15.33 (a)
- **UNCERTAINTY OF MEASURE:** Combined uncertainty = ± 1.75 dB
  Total uncertainty = (k=2) ± 3.5 dB

TEST CONDITIONS:			**MEASURED**
Ambient temperature :	15 - 35 °C		24 ± 3 °C
Ambient humidity :	25 - 75 %rH		40 ± 5 %rH
Pressure :	85 - 106 kPa	(860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage :	9 Vdc		9 Vdc

OPERATING CONDITION (Rif. Section. 2) : #1

RESULT: WITHIN THE LIMIT

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SCAN TABLE : "Radiated Emission"

Unit:	dBμV/m

	Detector :	Mode:
Curve1:	Avg	ClearWrite
Curve2:	--	ClearWrite

Subrange:

Start Frequency:	1000.0 MHz	Step Size:	200 kHz
Stop Frequency:	5000.0 MHz	Probe Transducer:	HL025
Measure Time:	0.01 sec.		
IF Bandwidth:	1000 kHz		
Receiver:	FSP		
Signal Path:	Path 4	System Transducer:	RFin2-CP1/X11
Scan Mode:	Lin	Add. Transducer:	W71.01
Tracking Gen.:	Off		
Input:	2 DC		
Preamplifier:	10 dB	Demodulation:	FM Broad
RF att.:	Coupled	Volume:	0.0%
Ref. Level:	-50 dBm	Squelch:	--
Min. RF att.:	0 dBm	Option:	None
Autorange:	On		
Curve 1:	On	Repetition:	Single
Curve 2:	Off	Stop Mark:	On
		Stop Message:	On
		Text:	Connect antenna

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MEASUREMENT RESULTS

Frequency [MHz]	Remark	AV Level [dBµV/m]	AV Limit* [dBµV/m]	Margin [dB]
1301,8145	Spurious	53,50	54,00	0,50
1735,745	Spurious	52,25	61,94	6,69
2169,679	Spurious	43,43	61.94	18,51
2603.613	Spurious	43,85	61.94	18,09
3037,550	Spurious	58,03	61.94	3,91
3471,491	Spurious	52,38	61.94	9,56
3905,421	Spurious	47,17	54,00	6,83
4339,352	Spurious	46,56	54,00	7,44

* In acc. to §15.231 limit

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TEST 3.

TX – FREQUENCY STABILITY

REFERENCE DOCUMENT FCC PART 15 sub 2 §2.1055

- **TEST LOCATION:** Climatic chamber
- **TEST EQUIPMENT USED FOR TEST:** Climatic chamber Mazzali mod. Climatest M1574
  Spectrum Analyzer Rohde & Schwarz mod. FSP
  Programmable DC power suply HP mod. 6653A
- **TESTED PORT:** Enclosure

TEST CONDITIONS:			**MEASURED**
Ambient temperature :	15 - 35 °C		24 ± 3 °C
Ambient humidity :	25 - 75 %rH		40 ± 5 %rH
Pressure :	85 - 106 kPa	(860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage :	9 Vdc		9 Vdc

OPERATING CONDITION (Rif. Section. 2) : #1

RESULT: WITHIN THE LIMIT

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Frequency stability measurements

Temperature (°C)	*Measured RF Frequency (Hz)*
-30.0	*433900000*
-20.0	*433898000*
-10.0	*433898000*
0.0	*433896000*
10.0	*433890000*
20.0	*433886000*
30.0	*433878000*
40.0	*433866000*
50.0	*433858000*

Min. value (Hz)	*433900000*
Max. value (Hz)	*433858000*
Frequency deviation (Hz) $[f_H - f_L]$	*42000*

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TEST 4.

TX – RANGE OF MODULATION BANDWIDTH

REFERENCE DOCUMENT FCC PART 15 subpart C

- **TEST LOCATION:** Semi-anechoic chamber
- **TEST EQUIPMENT USED FOR TEST:** EMI receiver Hewlett Packard Mod. 8542E

- **TESTED PORT:** AC Mains, DC Port and Battery
- **EMISSION LIMITS:** Acc. to Section 15.231 of reference document

TEST CONDITIONS:			**MEASURED**
Ambient temperature :	15 - 35 °C		24 ± 3 °C
Ambient humidity :	25 - 75 %rH		40 ± 5 %rH
Pressure :	85 - 106 kPa	(860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage :	9 Vdc		9 Vdc

OPERATING CONDITION (Rif. Section. 2) : #1

RESULT: WITHIN THE LIMIT

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MEASUREMENT RESULTS

TEST CONDITIONS		Occupied frequency range (at 20 dB point)		
		f_L [MHz]	F_C [MHz]	f_H [MHz]
T_{amb} : + 24 °C	V_{nom} : 9 Vdc	433,860	433,885	433,910
Incertezza di misura / Measurement Uncertainty : ± 0.1 Hz				
Legenda / Abbreviations : f_L : Lowest frequency at 20dB point F_C : Central frequency f_H : Highest frequency at 20dB point				

Bandwidth at 20dB points: 50 kHz

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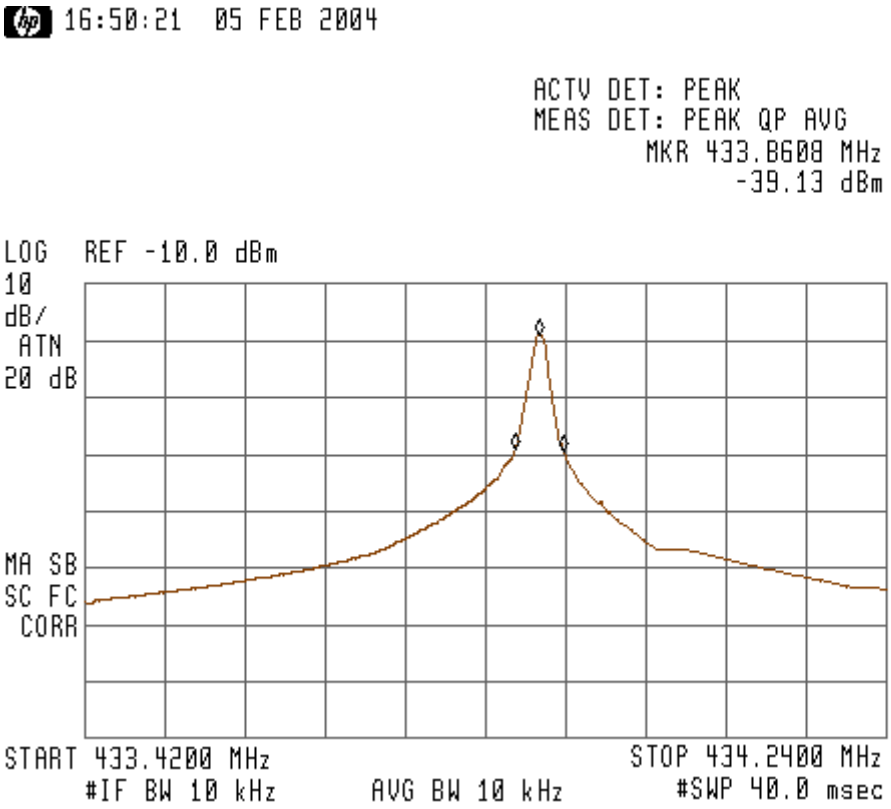

LIMITS	
	Permitted operating frequency range
Normal test conditions	Nominal frequency ± 0,25% = 1084,8 kHz

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6. EUT TECHNICAL DOCUMENTATION

6.1 Wiring diagrams

	Document reference (n., edition, date, ...)
WIRING DIAGRAM	See enclosed document
PART LIST	See enclosed document

6.2 Technical manual

	Document reference (n., edition, date, ...)
SEARCH LIGHT FM1 DIRECTIONS FOR USE	IT-1 5902 – 24/03/03
SEARCH LIGHT FM2 DIRECTIONS FOR USE	IT-1 5912 – 24/03/03
SEARCH LIGHT FM3 DIRECTIONS FOR USE	IT-1 5922 – 03/12/03

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6.3 Photographic documentation

PHOTO N° 1 – E.U.T. IDENTIFICATION

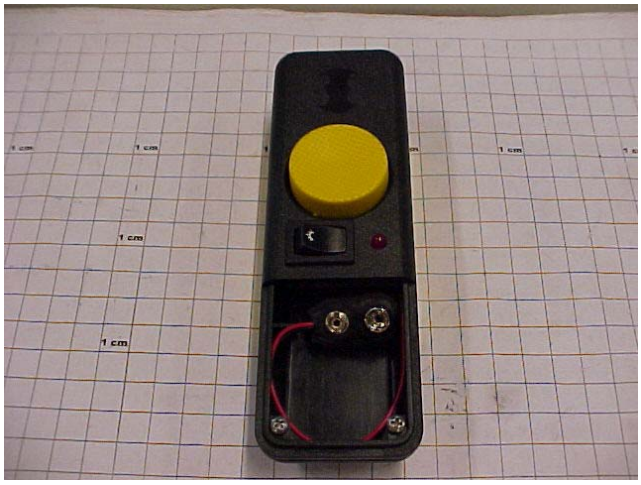

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PHOTO N° 2 – INTERNAL VIEW

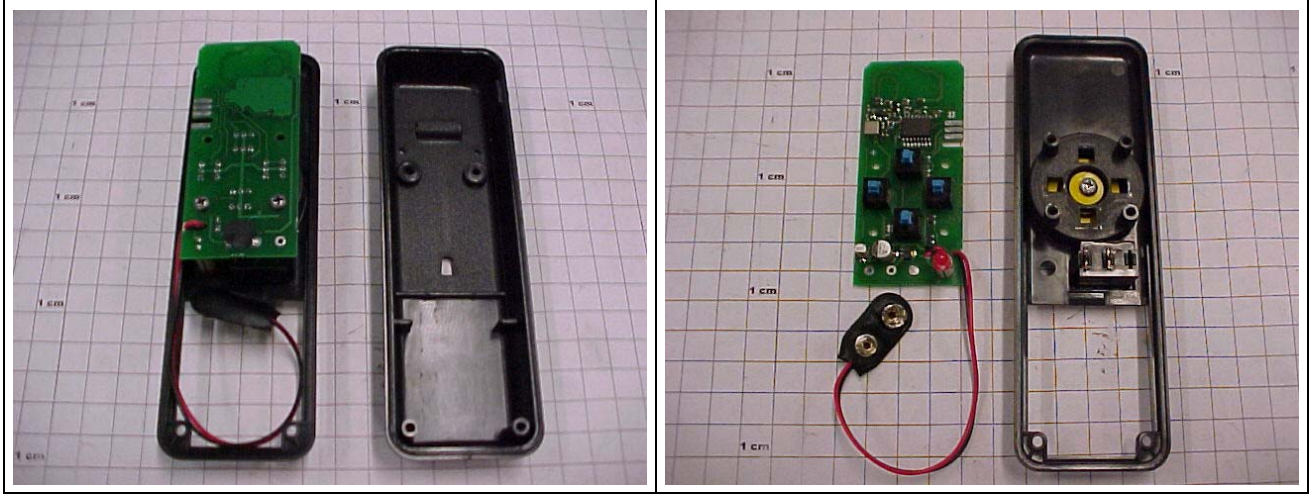

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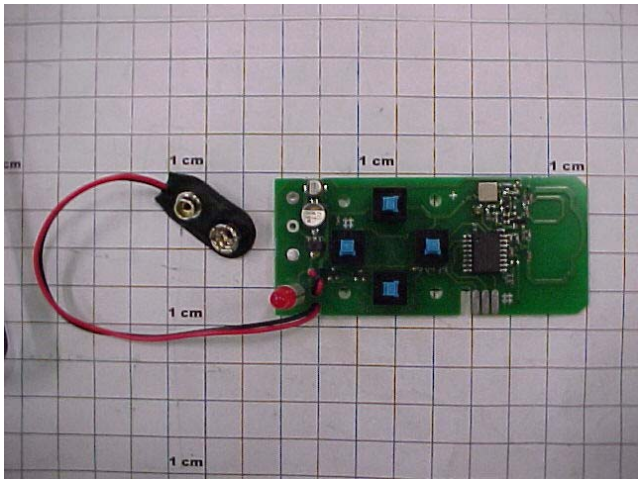
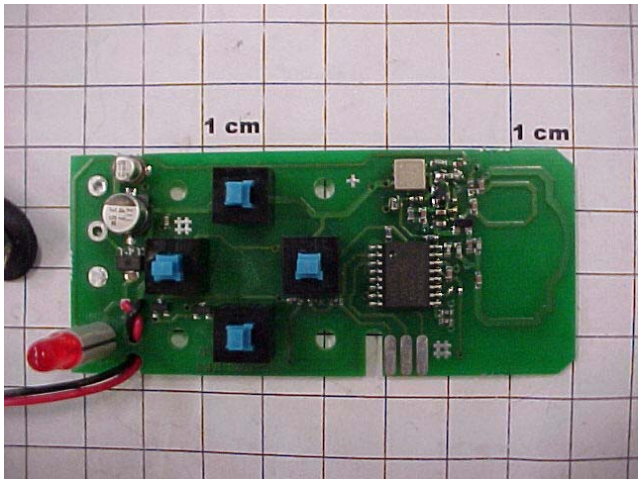
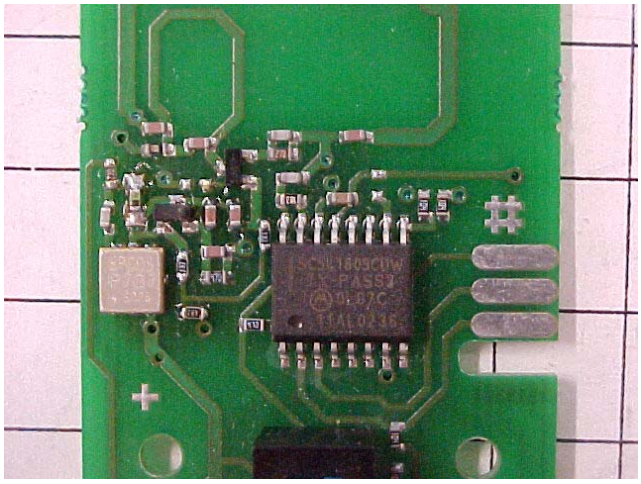
PHOTO N° 3 – INTERNAL VIEW







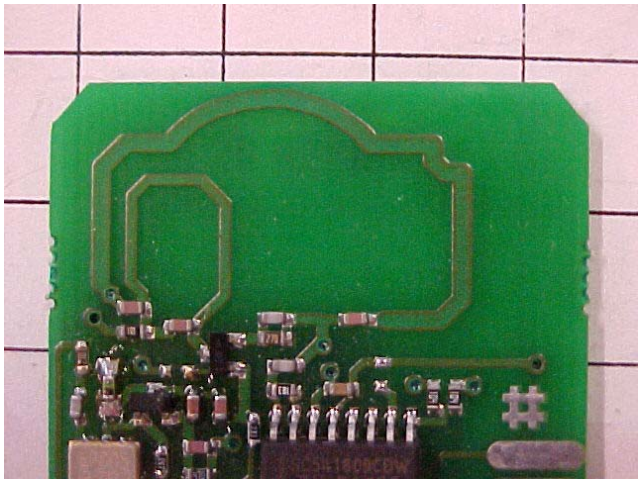


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PHOTO N° 4 – SET-UP FOR EMISSION RADIATED TEST