



EMC - Test Report

Model : Div@-S64

FCC ID	O8TEIGERMNC		
Product type	MP3 Player	Serial No.	-
Applicant	EIGER M&C CO., LTD		
Address	562-6 Woman-Dong, Paldal-gu, Suwon City, Kyungki-Do, KOREA		
Manufacturer	EIGER M&C CO., LTD		
Address	562-6 Woman-Dong, Paldal-gu, Suwon City, Kyungki-Do, KOREA		
 Test specification : FCC Part15 Subpart B Class B (Standard)			
 Test Result : In compliance			
<i>Tested by</i> (Test engineer)		<i>Reviewed by</i> (EMC Manager)	
<u>2000-09-20</u>	<u>Young Joon, Park</u>	<u>2000-09-20</u>	<u>James, Hong</u>
Date	Name	Date	Name
			
	Signature		Signature
Definition ☒ : Applicable, ☐ : Not Applicable, N/A : Not Applicable, - : Not Applicable			

The test result only responds to the tested sample.

No single part of this document may be reproduced without permission from Certitek Standards Laboratory Co., Ltd.

Tel: +82-31-339-9970, Fax: +82-31-339-9972

CERTITEK STANDARDS LABORATORY CO., LTD.



Table of contents

1. EUT description	3
Introduction	3
Identification	3
Electrical rating	3
2. Test Set-up.....	4
Test Mode	4
Cable configuration	4
Cable description	5
Auxiliary equipment	5
Test software	5
Measurement Procedures	6
3. Test Result	7
Test summary	7
Radiated emission	8
Conducted emission	9
4. Photographs	11
EUT (Front/Rear)	11
Main Board (Front/Rear)	12
Memory Board (Front/Rear)	13
Radiated emission	14
Conducted emission	15



1. EUT description

Introduction

Div@-S64 is a MP3 Player.

Identification

Receipt date : 2000-09-14
Model : Div@-S64
Manufacturer : EIGER M&C CO., LTD
Address : 562-6 Woman-Dong, Paldal-gu, Suwon City, Kyungki-Do, KOREA
Contact person : Jong-Kuk Lee (Research Manager)
Telephone : +82 - 31 - 211 - 7092
Facsimile : +82 - 31 - 211 - 7004

Peripheral Device Ports

Port name	Description
Earphone	Connect to Earphone
USB	Connect to PC' s USB Port
DC IN	Connect to Adaptor

Electrical rating

Input : AA Battery (1EA)

Output : -

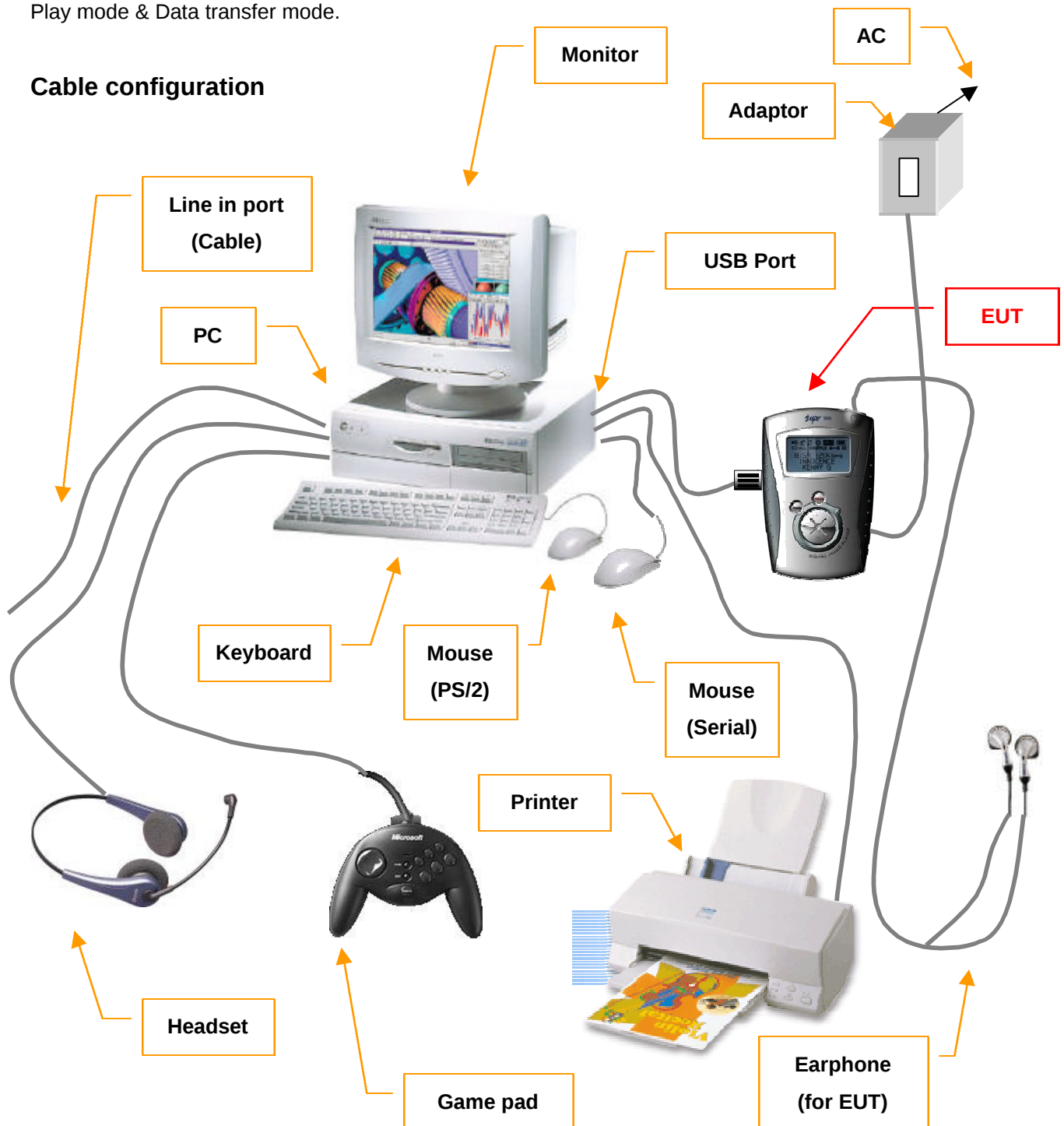


2. Test Set-up

Test Mode

Play mode & Data transfer mode.

Cable configuration



**Cable description**

	Port name (start / end)	Type	Length (m)	Remark
A	EUT' s Earphone / Earphone	Unshielded	1.0	Connected Earphone
B	EUT' s USB / PC' s USB	Shielded (With Ferrite Core)	1.2	Connected to PC' s USB port
C	EUT' s DC IN / Adaptor	Unshielded	2.0	Connected Adaptor
D	PC' s Serial / Mouse	Shielded	1.6	Connected Serial Mouse
E	PC' s Parallel / Printer	Shielded	1.6	Connected Printer
F	PC' s Keyboard / Keyboard	Shielded	1.5	Connected PS/2 Keyboard
G	PC' s Mouse / Mouse	Shielded	1.6	Connected PS/2 Mouse
H	PC' s Sound (Speaker / Mic / Line in) / Headset & Cable	Unshielded	2.0	Connected Headset & Cable
I	PC' s Game Port / Game pad	Unshielded	2.0	Connected Game pad
J	PC' s Video / Monitor	Shielded (With Ferrite Core)	1.8	Connected Monitor

Auxiliary equipment

	Description	Model name	Serial No.	Manufacturer
1	Earphone (for EUT)	-	-	-
2	Adaptor (for EUT)	DR-03300	99.6	Dream Electronics
3	PC	DTPC-17	G1703009	HEWLETT PACKARD
4	Monitor	PG17HS	301661	SAMSUNG
5	Printer	Stylus COLOR 460	BWCE143331	EPSON
6	Keyboard	SK-2502C	M000351491	HEWLETT PACKARD
7	Mouse (PS/2)	M-S48	LZA84601000	LOGITECH
8	Mouse (USB)	M-BB48	LZE93853176	LOGITECH
9	Mouse (Serial)	M-S48	LZA91153127	SOTEC
10	Game pad	Side Winder	03421317	Microsoft Corporation
11	Headset	Hi-sonic	-	-

Test software

Software name	Manufacturer	Version	Description
-	-	-	-



Measurement Procedures

Preliminary AC power line conducted emissions tests were performed shielded room. To find worst mode, several typical mode and typical cable position were tested.

Final AC power line conducted emissions test was performed shielded room.(location is same as Preliminary test)

Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

Preliminary radiated emissions test were performed anechoic chamber (Distance of antenna and EUT was 3m). To find worst mode, several typical mode and typical cable position were tested and peak level and frequency were recorded.

Final radiated emissions test was performed Open Area Test Site. Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

* Measurement procedures was In accordance with ANSI C63.4-1992 7.2.3, 7.2.4 and 8.3.1.1, 8.3.1.2



3. Test Result

Test summary

Test	Result	Remark
Emission test (EMI)		
Radiated emission	Met	
Conducted emission	Met	

Measurement uncertainty (k=2)

150kHz~30MHz: ± 2.68 , 30MHz~300MHz: +4.58, -4.66, 300MHz ~ 1GHz: +3.78, -3.74

Uncertainty parameter was calculated according to 'NAMES Publication NIS 80'

The tested Div@-S64 fully meets the Requirements of ANSI C63.4-1992, when operated as described in this report.

President of Certitek standards laboratory.

2000-09-20

Date

Kedin, Lyoun

Name

Signature

**Radiated emission**Test result: **Met**

Date of testing : 2000-09-18

Ambient temperature: 25°C, Relative humidity: 60%, Atmospheric pressure: 999hPa(mbar)

Test site type: Open area test site

Reference Standard: FCC Part15 Subpart B , Class B

Test and measurement equipment (Main equipment)

Model name	Manufacturer	Description	Serial No.
BBA9106	Schwarzbeck	Biconical antenna	41-00210
UHALP9107	Schwarzbeck	Log-periodic antenna	1452
ESVS30	Rohde Schwarz	Field strength meter	826638/008
-	-	-	-

Frequency Band 30MHz - 1000MHz

Antenna distance 3m (From the EUT)

Test data sheet

Frequency [MHz]	Reading [dBuV/m]	Pol.	Height [m]	Correction Factor		Limits [dBuV/m]	Result [dBuV/m]	Margin [dB]
				Antenna	Cable			
123.76	26.8	V	1.0	11.55	1.10	43.5	39.45	4.05
123.76	22.5	H	2.4	11.55	1.10	43.5	35.15	8.35
129.02	26.7	V	1.0	11.80	1.30	43.5	39.80	3.70
129.02	21.9	H	1.5	11.80	1.30	43.5	35.00	8.50
134.29	27.0	V	1.0	12.00	1.30	43.5	40.30	3.20
134.29	22.2	H	1.4	12.00	1.30	43.5	35.50	8.00
136.93	21.9	V	1.0	12.10	1.30	43.5	35.30	8.20
139.59	26.4	V	1.0	12.20	1.30	43.5	39.90	3.60
144.81	26.5	V	1.0	12.30	1.40	43.5	40.20	3.30
417.74	14.8	H	1.0	16.04	2.90	46.0	33.74	12.26
406.45	18.2	H	1.0	15.82	2.80	46.0	36.82	9.18
530.64	19.8	H	1.1	18.14	3.50	46.0	41.44	4.56
553.22	16.6	H	1.2	18.30	3.50	46.0	38.40	7.60

Comment : -

**Conducted emission**Test result: **Met**

Date of testing : 2000-09-18

Ambient temperature: 23°C, Relative humidity: 40%, Atmospheric pressure: 998hPa(mbar)

Test site type: Shielded room

Reference Standard: FCC Part15 Subpart B , Class B

Test and measurement equipment (Main equipment)

Model name	Manufacturer	Description	Serial No.
3825/2	EMCO	LISN	9206-1971
ESHS30	Rohde Schwarz	Field strength meter	828144/002
-	-	-	-

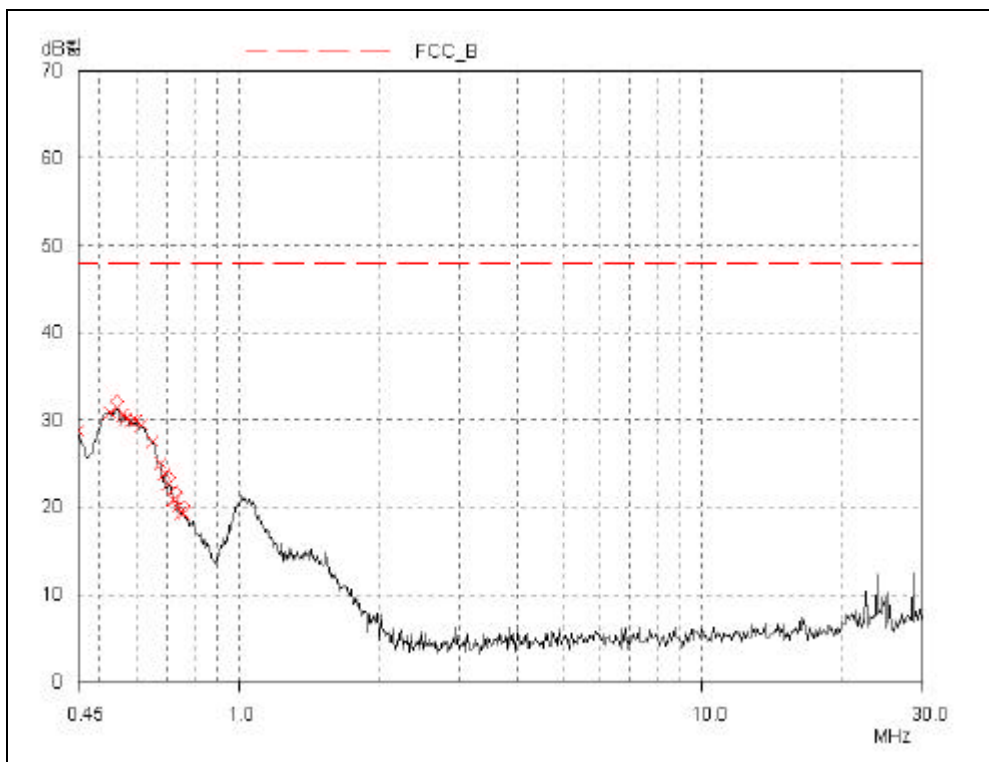
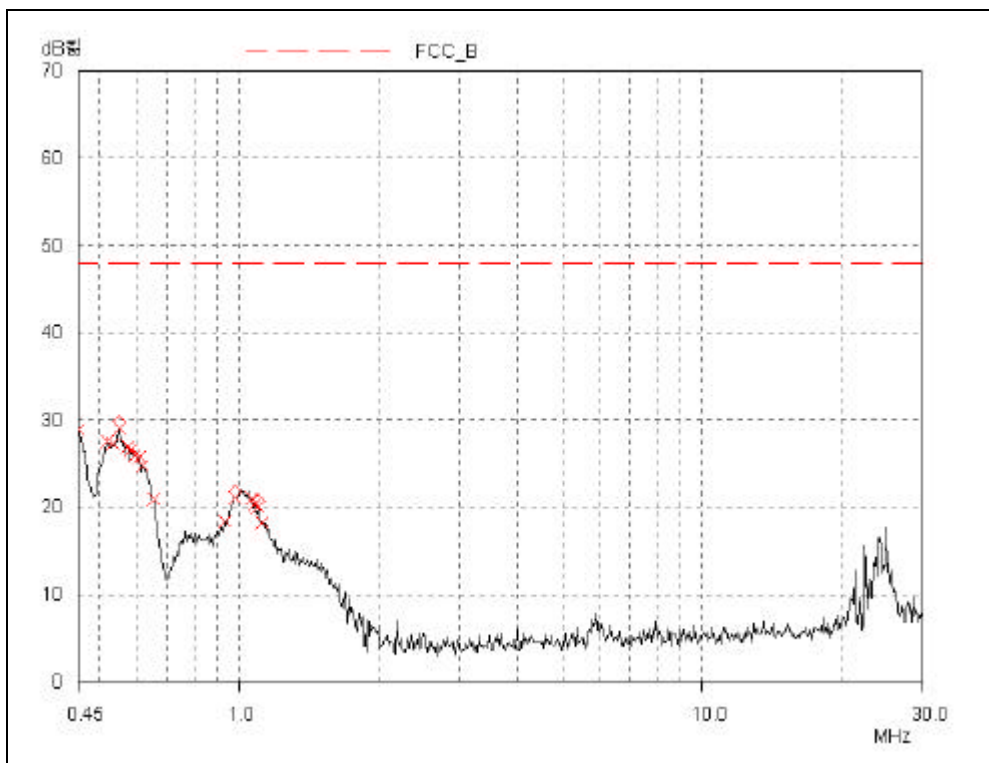
Test data sheet

Frequency [MHz]	Correction Factor		Line	Quasi-peak				Average			
	LISN	Cable		Limit [dBuV]	Reading [dBuV]	Result [dBuV]	Margin [dB]	Limit [dBuV]	Reading [dBuV]	Result [dBuV]	Margin [dB]
0.45	0.3	0.1	N	48.0	28.7	29.1	18.9				
0.52	0.3	0.1	N	48.0	30.8	31.2	16.8				
0.54	0.3	0.1	N	48.0	31.3	31.7	16.3				
0.56	0.3	0.1	N	48.0	30.6	31.0	17.0				
0.57	0.3	0.1	N	48.0	30.1	30.5	17.5				
0.58	0.2	0.1	N	48.0	29.9	30.2	17.8				
0.60	0.2	0.1	N	48.0	29.9	30.2	17.8				
0.61	0.2	0.1	N	48.0	29.4	29.7	18.3				
0.65	0.2	0.1	N	48.0	27.5	27.8	20.2				
0.67	0.2	0.1	N	48.0	24.9	25.2	22.8				
0.69	0.2	0.1	N	48.0	23.8	24.1	23.9				
0.70	0.2	0.1	N	48.0	22.6	22.9	25.1				

Comment : -



Test data graphic





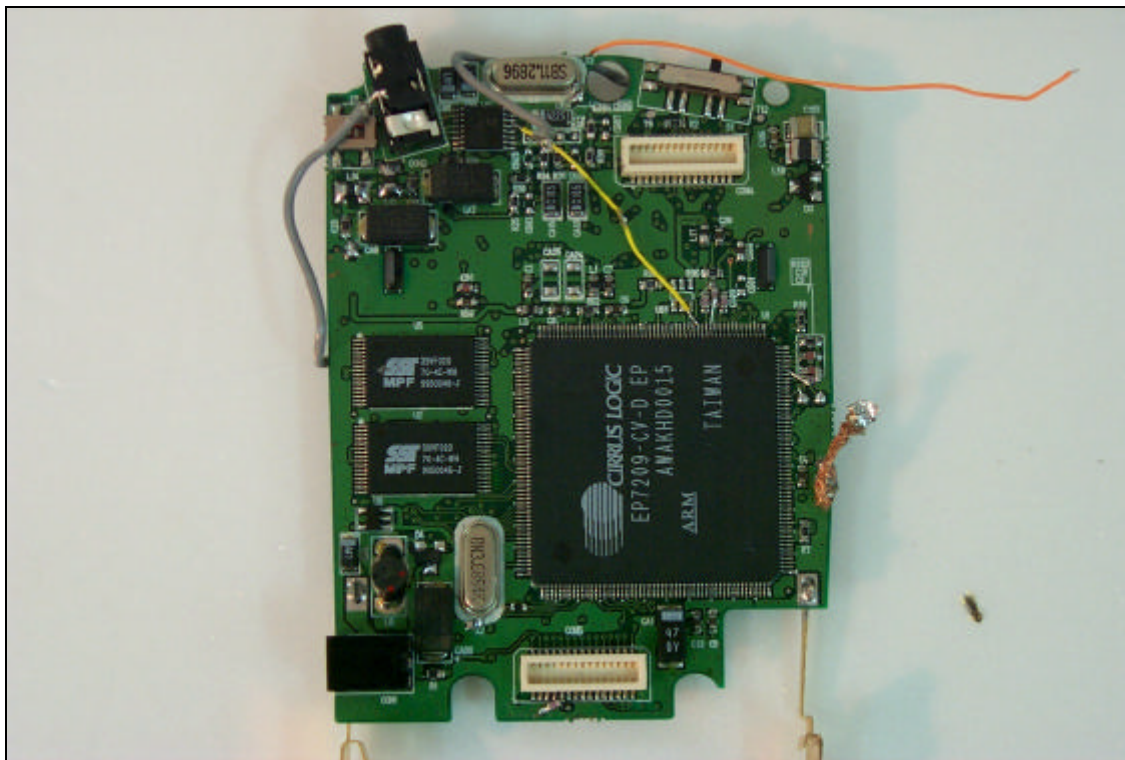
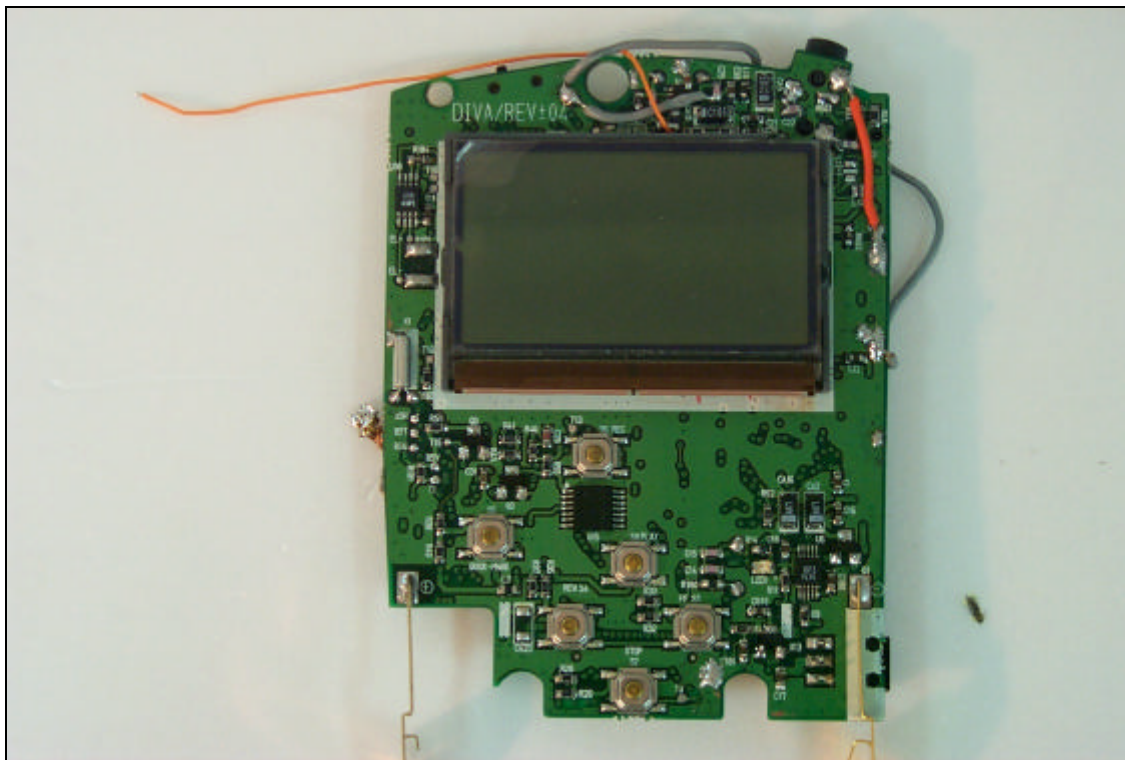
4. Photographs

EUT (Front/Rear)



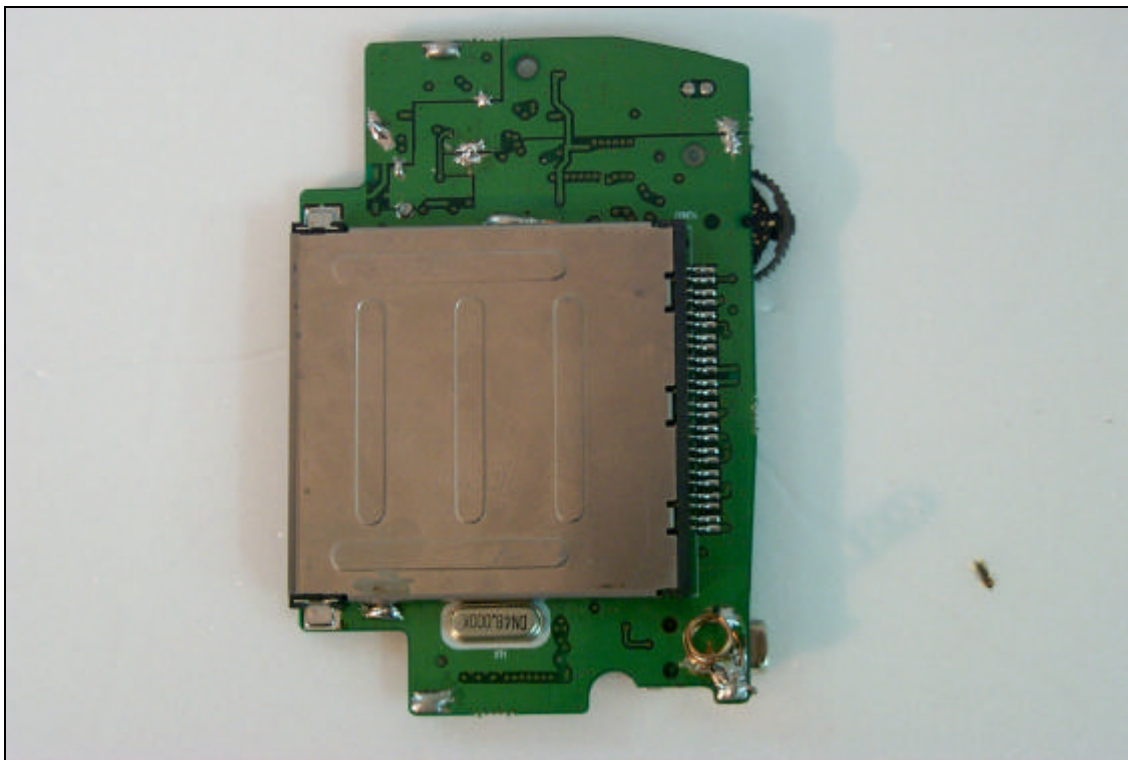
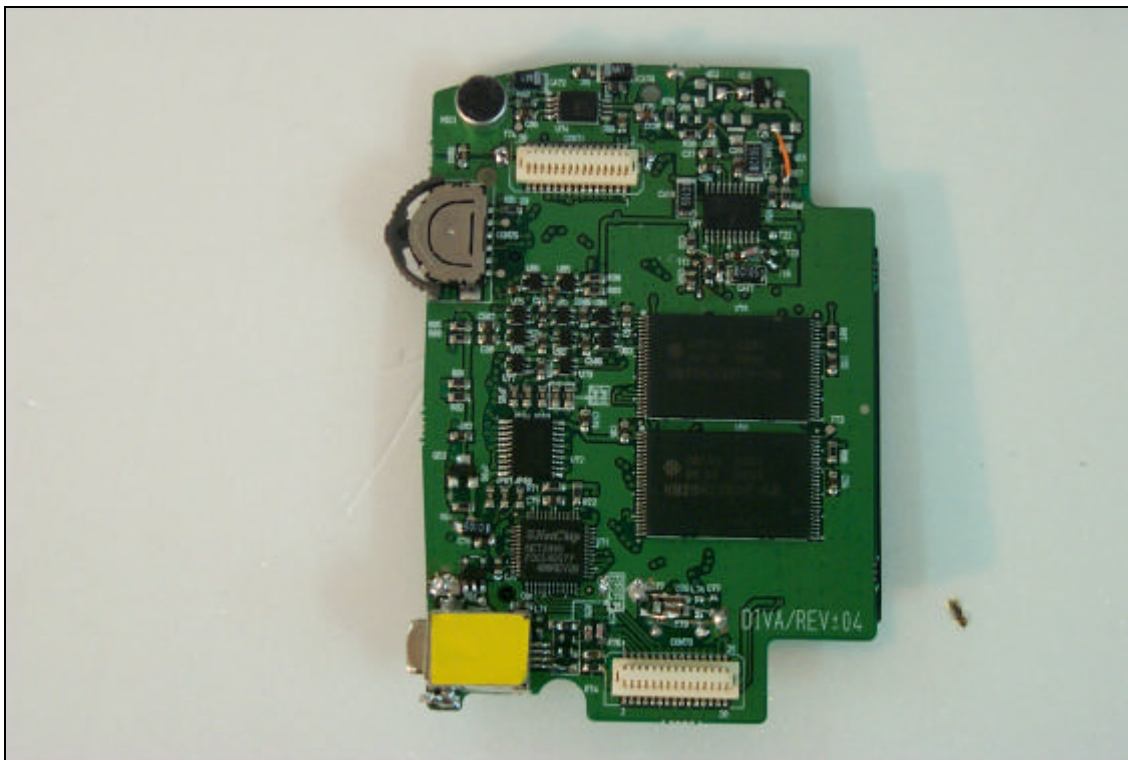


Main Board (Front/Rear)





Memory Board (Front/Rear)





Radiated emission





Conducted emission

