LTA
Laboratory for Test & Approval Co.,Ltd.

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DIASONIC TECHNOLOGY CO.,LTD

Dates of Tests: November 1 ~ 2, 2005
Test Report S/N: LR500110511C
Test Site : LTA CO., LTD.

FCC ID **P7KDDR4200**

APPLICANT **DIASONIC TECHNOLOGY CO.,LTD.**

TEST REPORT

FCC Part 15B Certification

Manufacturing Description	**:**	**DAB Receiver & Voice Recorder**
Manufacturer	**:**	**DIASONIC TECHNOLOGY CO.,LTD.**
Model name	**:**	**DDR-4200**
Test Device Serial No.:	**:**	**Identification**
FCC Rule Part(s)	**:**	**ANSI C-63.4-2003**
		FCC Part 15 Subpart B
Data of issue	**:**	**November 11, 2005**

This test report is issued under the authority of:

Dong –Min JUNG, Technical Manager

The test was supervised by:

Kyung-Taek LEE, Test Engineer

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. This report must not be used by the applicant to claim product endorsement by NVLAP or any agency of the U.S. Government.

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1. General information's

1-1 Test Performed

Company name : LTA Co., Ltd.

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Web site : http://www.ltalab.com

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Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competents of calibration and testing laboratory".

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	After Assessment	ECT accredited Lab.
RRL	KOREA	KR0049	2007-07-13	EMC accredited Lab.
FCC	U.S.A	610755	2008-03-28	FCC filing
VCCI	JAPAN	R2133, C2307	2008-06-22	VCCI registration
IC	CANADA	IC5799	2008-04-23	IC filing

2. Information's about test item

2-1 Client

Company name	:	Diasonic Technology Co., Ltd.
Address	:	#321-43, Suksu-dong, Manan-ku, Anyang-city, Kyungki-do
Country	:	Korea.
Telephone	:	+82-31-474-0852
Facsimile	:	+82-31-474-0861

2-2 Equipment Under Test (EUT)

Class	:	B (residential environment)
Trade name	:	DAB Receiver & Voice Recorder
Model name	:	DDR-4200
Serial number	:	Identification
Date of receipt	:	November 03, 2005
EUT condition	:	Pre-production, not damaged
Interface Ports	:	USB, LINE IN, Earphone
High Frequency	:	32.768KHz, 12MHz
DAB Tuner	:	M/N: AEBP000S-700
		Receiving Frequency: Band 3(174 ~ 245MHz)
Power Source	:	AC ADAPTOR (SEORIM ELECTRONICS M/N: SR-0512SP)
		Input : 230VAC, 50/60Hz, 0.15A Output: 5V, 1.2A

2-3 Test conditions

Temp. / Humi. / Pressure	:	+15~35 ℃ / 30~75 %RH / 860~1030 mbar
Operating mode Description	:	1. USB File up/down mode 2. MP3 Play mode
		3. DAB REC mode 4. Voice REC mode
Power supply	:	120Vac , 60Hz

2-4 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
PC	KG	502KIHS108841	LG
Monitor	1704FPT	568	DELL
Keyboard	SK-8110	716	DELL
Mouse	M-S48	LZA84001808	LG
Speaker	MS-760	N/A	SHENEHEN SHI
Printer	Deskjet 600K	SG7631B1XX	HP

3. Test Report

3.1 Summary of tests

Parameter	Applied Standard	Status
EMISSION Requirements		
Radiated Emission	FCC Part 15.109	C
Conducted Emission	FCC Part 15.107	C

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

3.2 EMISSION Requirements

3.2.1 Conducted Emission

Definition:

The test assesses the ability of the EUT to limit its internal noise from being present on the AC mains Power In/Output ports.

Equipment under test	:	**DDR-4200**
Test method	:	ANSI C-63.4-2003
Measurement Frequency range	:	150 kHz ~ 30MHz
Measurement RBW	:	10 kHz
Test mode	:	1. USB File up/down and USB Charging mode without Cradle
		2. Charging mode with Cradle
Result	:	**Complies**

Measurement Data:

- No other emissions were detected at a level greater than 10dB below limit.
- Refer to the next page

A sample calculation:

COR. F (correction factor)= LISN Insertion loss + Cable loss

Emission Level= meter reading + COR.F

LIMIT: FCC Part 15.107

Frequency Range	Near-peak	Average
0.15 ~ 0.5 MHz	66 ~ 56 dBuV	56 ~ 46 dBuV
0.5 ~ 5 MHz	56 dBuV	46 dBuV
5 ~ 30 MHz	60 dBuV	50 dBuV

Note: The limits will decrease with the frequency logarithmically within 0.15MHz to 0.5MHz

TEST EQUIPMENT USED: 03,06,07,11,17

Conducted emissions (L1)

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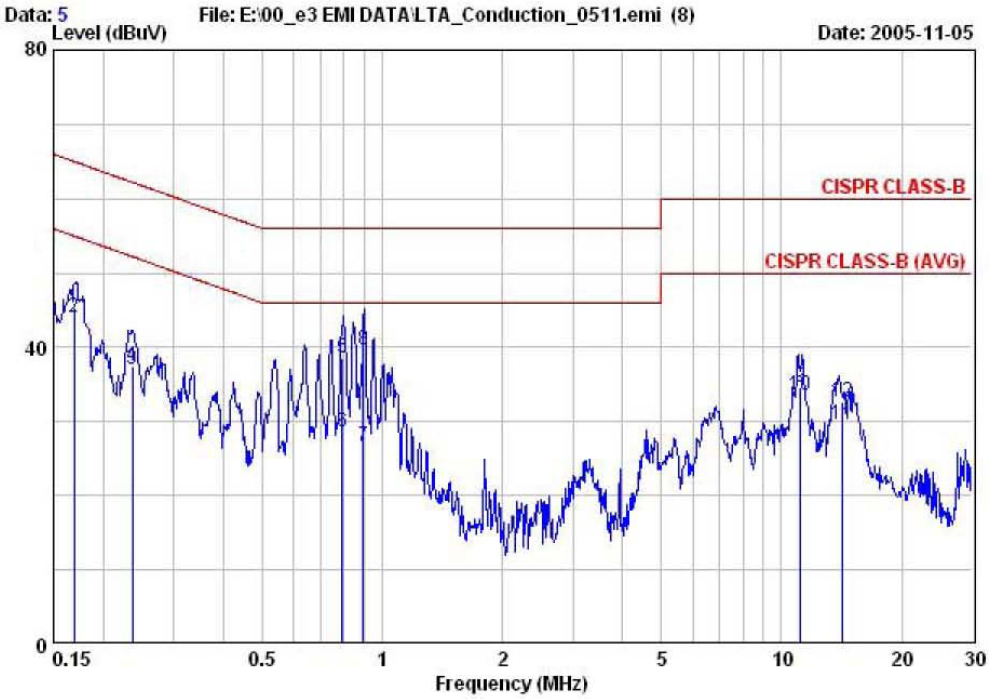
EUT / Model No.	: DDR-4200	Phase	: LINE
Test Mode	: File up/down mode (without Credle)st Power		: 120 / 60
Temp./Humi.	: 17 / 57	Test Engineer	: K.T. LEE



Freq	RD QP	RD AV	C.F	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
MHz	dBuV	dBuV	dB	dBuV	dBuV	dBuV	dBuV	dB	dB
0.17	44.90	43.70	0.43	45.33	44.13	65.01	55.01	19.68	10.88
0.24	37.30	36.90	0.22	37.52	37.12	62.20	52.20	24.68	15.08
0.79	38.20	28.10	0.40	38.60	28.50	56.00	46.00	17.40	17.50
0.90	39.20	26.10	0.41	39.61	26.51	56.00	46.00	16.39	19.49
11.18	33.70	32.60	0.96	34.66	33.56	60.00	50.00	25.34	16.44
14.16	31.50	28.50	1.13	32.63	29.63	60.00	50.00	27.37	20.37

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

Conducted emissions (N)

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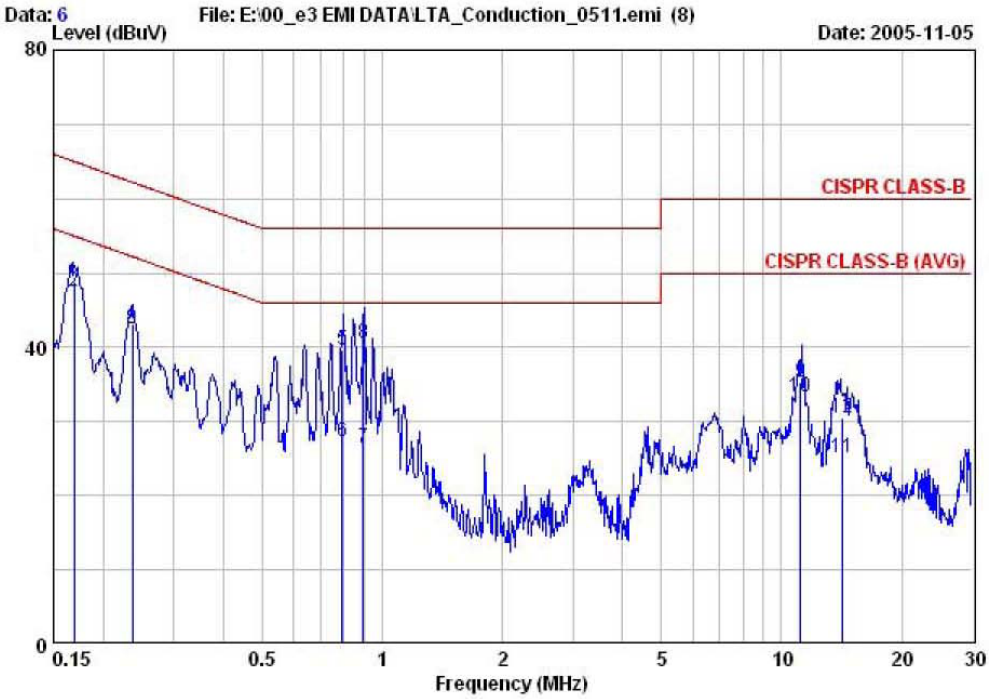
EUT / Model No.	: DDR-4200	Phase	: NEUTRAL
Test Mode	: File up/down mode (without Credle)st Power		: 120 / 60
Temp./Humi.	: 17 / 57	Test Engineer	: K.T. LEE



Freq	RD QP	RD AV	C.F	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
MHz	dBuV	dBuV	dB	dBuV	dBuV	dBuV	dBuV	dB	dB
0.17	48.30	47.10	0.42	48.72	47.52	65.01	55.01	16.28	7.48
0.24	43.00	42.30	0.22	43.22	42.52	62.20	52.20	18.98	9.68
0.79	39.30	26.90	0.39	39.69	27.29	56.00	46.00	16.31	18.71
0.90	40.10	26.00	0.40	40.50	26.40	56.00	46.00	15.50	19.60
11.18	34.30	32.50	0.93	35.23	33.43	60.00	50.00	24.77	16.57
14.16	29.50	23.90	1.06	30.56	24.96	60.00	50.00	29.44	25.04

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

Conducted emissions (L1)

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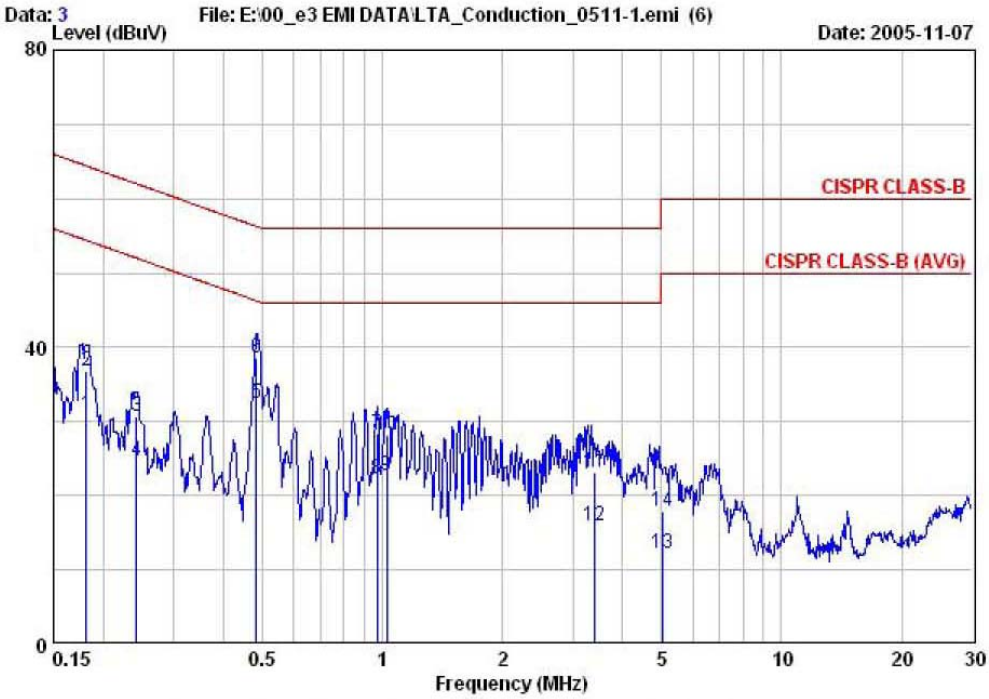
EUT / Model No.	: DDR-4200	Phase	: LINE
Test Mode	: Charging mode with Credle	Test Power	: 120 / 60
Temp./Humi.	: 21 / 35	Test Engineer	: K.T. LEE



Freq	RD QP	RD AV	C.F	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
MHz	dBuV	dBuV	dB	dBuV	dBuV	dBuV	dBuV	dB	dB
0.18	36.60	30.70	0.33	36.93	31.03	64.44	54.44	27.51	23.41
0.24	30.60	24.30	0.22	30.82	24.52	62.03	52.03	31.20	27.50
0.48	38.20	32.10	0.31	38.51	32.41	56.27	46.27	17.76	13.86
0.97	28.10	21.80	0.34	28.44	22.14	56.00	46.00	27.56	23.86
1.03	27.90	22.30	0.31	28.21	22.61	56.00	46.00	27.79	23.39
3.39	22.50	15.30	0.57	23.07	15.87	56.00	46.00	32.93	30.13
5.01	17.30	11.60	0.55	17.85	12.15	60.00	50.00	42.15	37.85

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

Conducted emissions (N)

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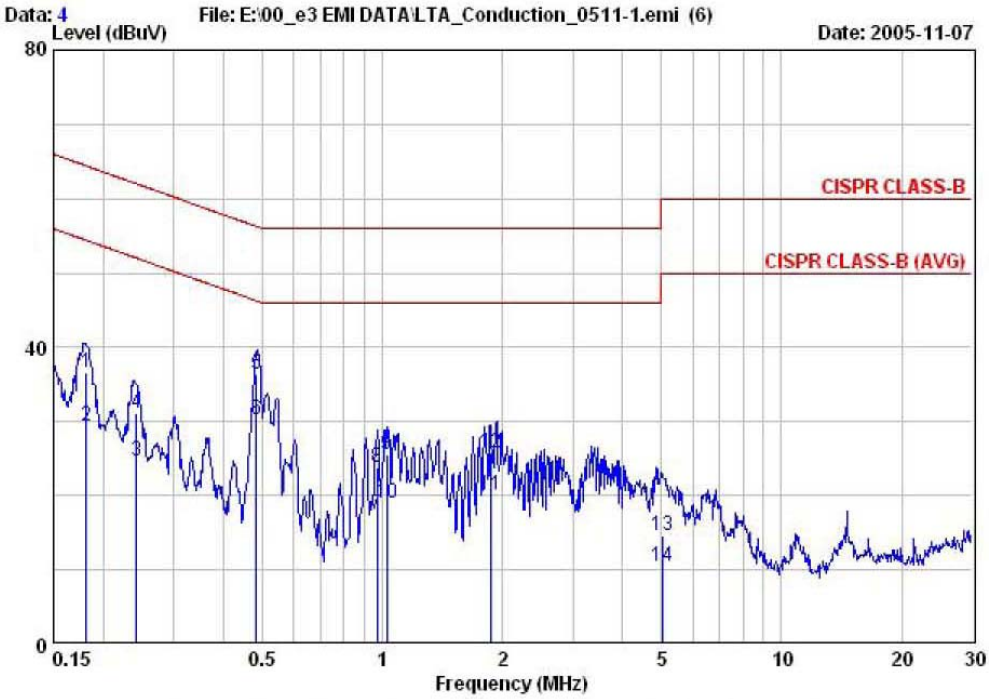
EUT / Model No.	: DDR-4200	Phase	: NEUTRAL
Test Mode	: Charging mode with Credle	Test Power	: 120 / 60
Temp./Humi.	: 21 / 35	Test Engineer	: K.T. LEE



Freq	RD QP	RD AV	C.F	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
MHz	dBuV	dBuV	dB	dBuV	dBuV	dBuV	dBuV	dB	dB
0.18	36.20	29.20	0.33	36.53	29.53	64.44	54.44	27.91	24.91
0.24	30.90	24.40	0.22	31.12	24.62	62.03	52.03	30.91	27.41
0.48	36.10	30.00	0.30	36.40	30.30	56.27	46.27	19.87	15.97
0.97	23.40	17.10	0.33	23.73	17.43	56.00	46.00	32.27	28.57
1.03	25.10	18.70	0.30	25.40	19.00	56.00	46.00	30.60	27.00
1.88	25.30	19.70	0.40	25.70	20.10	56.00	46.00	30.30	25.90
5.03	14.10	10.00	0.50	14.60	10.50	60.00	50.00	45.40	39.50

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

3.3.2 Radiated Emission

Definition:

The test assesses the ability of ancillary equipment to limit their internal noise from being radiated from the enclosure.

Equipment under test	:	**DDR-4200**
Test method	:	ANSI C-63.4-2003
Frequency Range	:	30 MHz ~ 10th harmonic.
Bandwidth	:	120 kHz (F < 1GHz) 1 MHz (F > 1GHz)
Distance of antenna	:	3 meters
Test mode	:	1. USB File up/down mode 2. MP3 Play mode 3. DAB REC mode 4. Voice REC mode
Result	:	**Complies**

Measurement Data:

- No other emissions were detected at a level greater than 20dB below limit.
- Refer to the next page

A sample calculation:

COR. F (correction factor)= Antenna factor + Cable loss- Amp.gain- Distance correction

Emission Level= meter reading + COR.F

LIMIT: FCC Part 15.109

Frequency (MHz)	Limit (uV/m) @ 3m
30 ~ 88	100
88 ~ 216	150
216 ~ 960	200
Above 960	500

TEST EQUIPMENT USED: 01,05,08,09,10,12,13,14,15,16,18,22,24,25

Radiated emission data - USB File up/down mode

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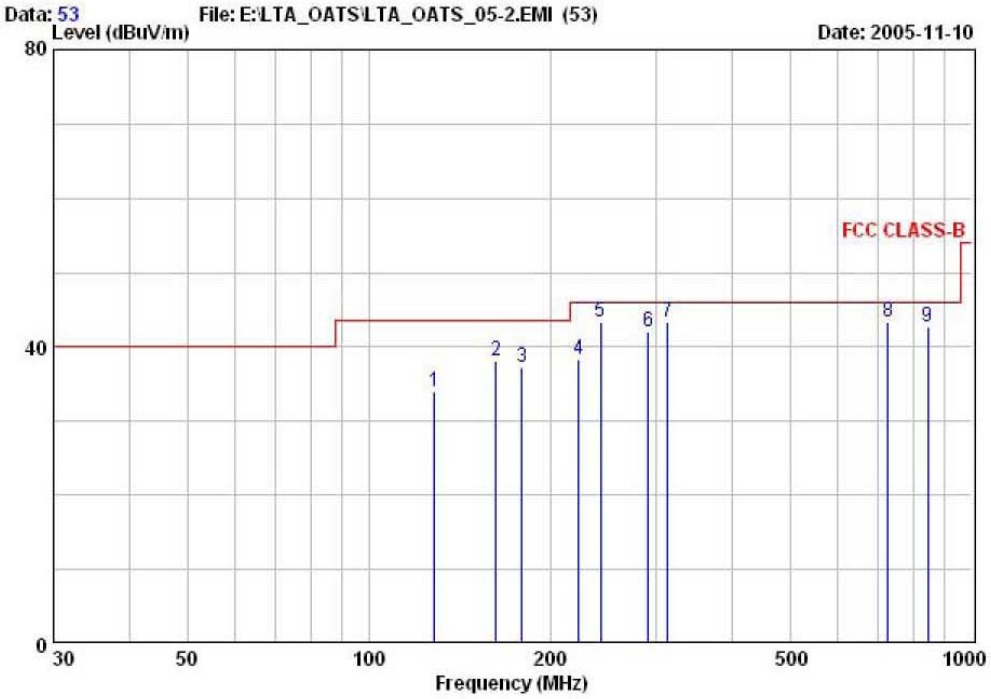
EUT/Model No.: DDR-4200 Temp/Humi: 20 / 53

Test Mode : USB Up/down mode Tested by: K. T. LEE



	Freq MHz	Reading(QP) dBuV	C.F dB	Result(QP) dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg	Polarity
1	128.56	46.10	-12.02	34.08	43.50	9.42	100	0	VERTICAL
2	162.61	48.00	-9.79	38.21	43.50	5.29	227	0	HORIZONTAL
3	179.39	46.60	-9.33	37.27	43.50	6.23	219	0	HORIZONTAL
4	222.95	46.40	-7.93	38.47	46.00	7.53	241	0	HORIZONTAL
5	242.53	50.60	-7.25	43.36	46.00	2.65	193	0	HORIZONTAL
6	291.04	47.00	-4.92	42.08	46.00	3.92	260	0	HORIZONTAL
7	313.28	54.80	-11.36	43.44	46.00	2.56	103	0	VERTICAL
8	726.81	45.00	-1.62	43.38	46.00	2.62	100	0	HORIZONTAL
9	845.09	42.50	0.22	42.72	46.00	3.28	100	0	HORIZONTAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated emission data - MP3 Play mode

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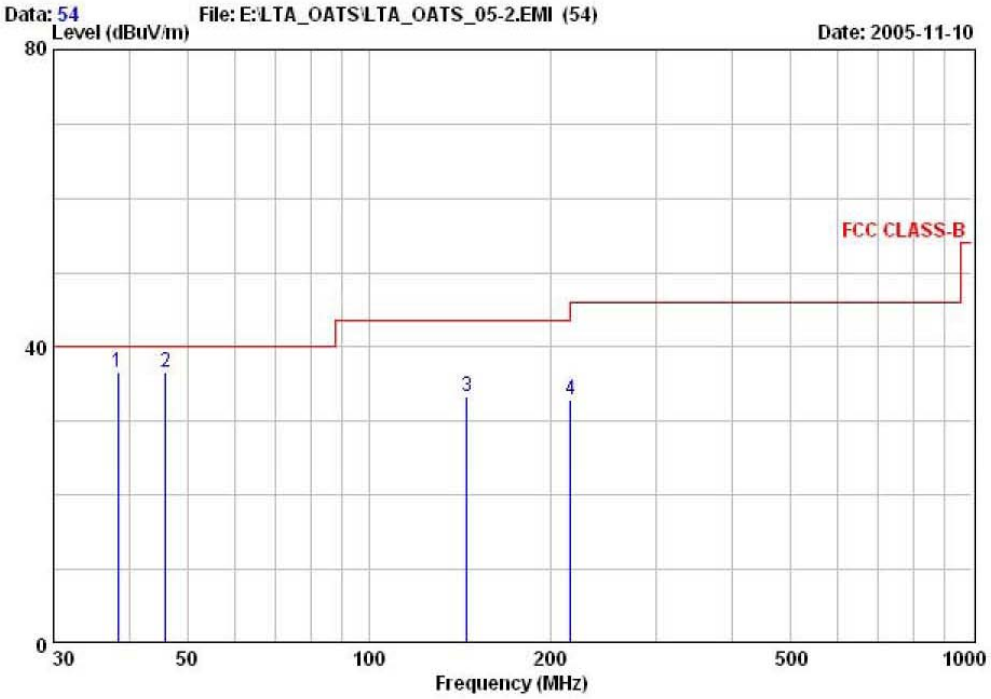
EUT/Model No.: DDR-4200 Temp/Humi: 20 / 53

Test Mode : MP3 Play mode(with Credle) Tested by: K. T. LEE



	Freq MHz	Reading(QP) dBuV	C.F dB	Result(QP) dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg	Polarity
1	38.35	47.50	-10.94	36.56	40.00	3.44	100	0	VERTICAL
2	46.02	50.50	-13.89	36.61	40.00	3.39	100	0	VERTICAL
3	145.35	44.20	-10.79	33.41	43.50	10.09	185	0	HORIZONTAL
4	216.02	41.00	-8.10	32.90	46.00	13.10	189	0	HORIZONTAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated emission data - DAB REC mode

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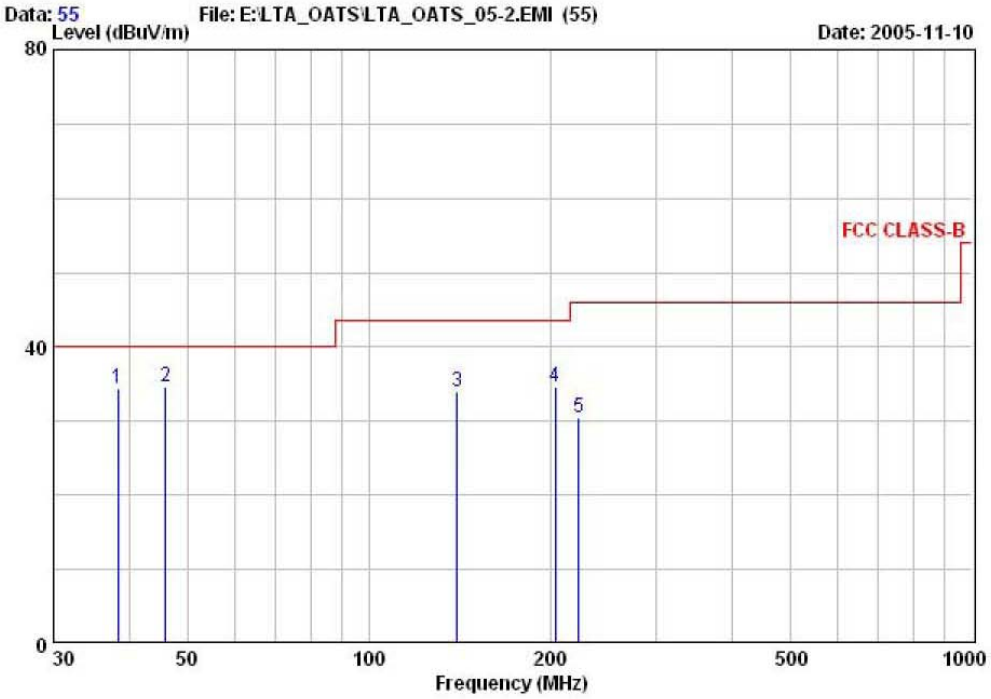
EUT/Model No.: DDR-4200 Temp/Humi: 19 / 53

Test Mode : DAB REC mode(with Credle) Tested by: K. T. LEE



	Freq MHz	Reading(QP) dBuV	C.F dB	Result(QP) dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg	Polarity
1	38.35	45.40	-10.94	34.46	40.00	5.54	100	0	VERTICAL
2	46.02	48.50	-13.89	34.61	40.00	5.39	100	0	VERTICAL
3	140.34	45.10	-11.09	34.01	43.50	9.49	210	0	HORIZONTAL
4	203.52	43.20	-8.47	34.73	43.50	8.77	152	0	HORIZONTAL
5	222.95	38.50	-7.93	30.57	46.00	15.43	209	0	HORIZONTAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated emission data - VOICE REC mode

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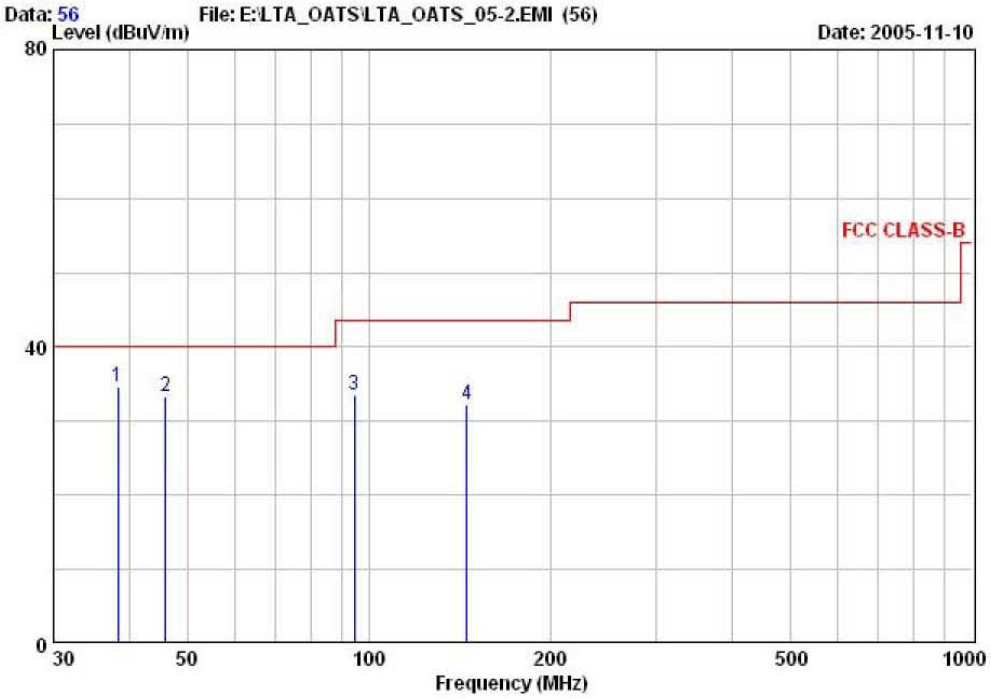
EUT/Model No.: DDR-4200 Temp/Humi: 20 / 53

Test Mode : VOICE REC mode(with Credle) Tested by: K. T. LEE



	Freq MHz	Reading(QP) dBuV	C.F dB	Result(QP) dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg	Polarity
1	38.35	45.50	-10.94	34.56	40.00	5.44	100	0	VERTICAL
2	46.02	47.20	-13.89	33.31	40.00	6.69	100	0	VERTICAL
3	94.76	50.00	-16.48	33.52	43.50	9.98	170	0	HORIZONTAL
4	145.35	43.10	-10.79	32.31	43.50	11.19	203	0	HORIZONTAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

APPENDIX 1

TEST EQUIPMENT USED FOR TESTS

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment are identified by the Test Laboratory.

	Description	Model No.	Serial No.	Manufacturer	Cal. Date
1	Spectrum Analyzer	8594E	3649A03649	HP	Dec-05
2	Signal Generater	8657A	3430U02049	HP	Dec-05
3	Attenuator (3dB)	8491A	37822	HP	Dec-05
4	Attenuator (3dB)	8491A	28881	HP	Dec-05
5	EMI Test Receiver	ESVD	843748/001	R&S	Dec-05
6	LISN	KNW-407	8-1430-1	Kyoritsu	Dec-05
7	Two-Line V-Network	ESH3-Z5	893045/017	R&S	Jan-06
8	RF Amplifier	8447D	2949A02670	HP	Jan-06
9	RF Amplifier	8447D	2439A09058	HP	Jan-06
10	RF Amplifier	8449B	3008A02126	HP	Jun-07
11	Test Receiver	ESH3	894718/017	R&S	Jan-06
12	TRILOG Antenna	VULB 9160	9160-3172	SCHWARZBECK	Feb-06
13	Log.-Per. Antenna	VULP 9118	9118 A 401	SCHWARZBECK	Feb-06
14	Biconical Antenna	BBA 9106	VHA 9103-2315	SCHWARZBECK	Feb-06
15	Horn Antenna	3115	00055005	ETS LINDGREN	Jun-07
16	Horn Antenna	BBHA 9120D	0499	Schwarzbeck	Jun-07
17	Spectrum Analyzer	8591E	3649A05888	HP	Feb-06
18	Spectrum Analyzer	R3272	82420423	ADVANTEST	Feb-06
19	Hygro-Thermograph	THB-36	0041557-01	ISUZU	Feb-06
20	Splitter (BNC)	ZFM-150	15542	Mini-Circuits	Jun-06
21	Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	Jun-06
22	RF Switch	MP59B	6200414971	ANRITSU	Jun-06
23	RF Switch	MP59B	6200438565	ANRITSU	Jun-06
24	Controller	CO 2000	CO2000174/8981104/L	Inn-Co	-
25	Controller	L05021	L05021/003	DAE IL ENG.	-
26	Power Divider	11636A	6243	HP	Apr-06
27	DC Power Supply	6622A	3448A03079	HP	Apr-06
28	Attenuator (30dB)	11636A	6243	HP	Apr-06
29	Attenuator (10dB)	8491A	63196	HP	Apr-06
30	Power Meter	EPM-441A	GB32481702	HP	Apr-06
31	Power Sensor	8481A	2702A64048	HP	Apr-06
32	Audio Analyzer	8903B	3729A18901	HP	May-06
33	Modulation Analyzer	8901B	3749A05878	HP	May-06
34	TEMP & HUMIDITY Chamber	YJ-500	L05022	JinYoung Tech	-

APPENDIX 2

MEASUREMENT UNCERTAINTY

1. Conducted Emission

Input Quantity	Probability Distribution	Probability Distribution (dB)	Standard
		9kHz~30MHz	
Cable loss(RG400)	Standard Deviation(SD)	± 0.01	10th measurement
Receiver corrections; -Voltage accuracy -Attenuation accuracy -Absolute pulse response	Rectangular (√3) Rectangular (√3) Rectangular (√3)	± 0.26 ± 0.26 ± 0.26	Cal. Report Cal. Report Cal. Report (CISPR16-3)
LISN corrections (ESH3-Z5) ; -Voltage division factor	Normal (k=2)	± 0.43	Cal. Report
Mismatch ; - Receiver VRC* : Γi = 0.09 -LISN VRC :Γg = 0.14(150kHz) = 0.05(30MHz) - Uncertainty: 20log(1± Γi Γg)	U-type (√2)	+0.11 -0.11	Cal. Report Cal. Report
System Repeatability	Standard Deviation(SD)	± 0.34	10th measurement
Combined measurement uncertainty Uc(y)	Normal	**+ 0.97 - 0.97**	
Expended measurement uncertainty (95.%,Confidence level,k=2)dB	Normal(k=2)	**+ 1.94 - 1.94**	

Note:VRC(Voltage Reflection Coefficient)

2. Radiated Emission

Input Quantity	Probability Distribution	Probability Distribution (dB)		Standard
		3m	10m	
		Bi & Log	Bi & Log	
Antenna Factor (VHA9103B & VULP9118A)	Normal (k=2) (normal)	30M~1G : ± 0.7	30M~1G : ± 0.7	ANT Cal. uncertainty
Cable loss (HFB-5010/HFC12D)	Standard Deviation(SD)	± 0.03	± 0.03	5th measurement
Receiver corrections; -Sine Wave Voltage -Pulse amplitude response -Pulse repetition rate response	Rectangular(√ 3) Rectangular(√ 3) Rectangular(√ 3)	± 0.23 ± 0.23 ± 0.07	± 0.23 ± 0.23 ± 0.07	Cal. Report
Antenna Directivity	Rectangular(√ 3)	+ 3.0 / -0	+ 0.5/-0	NAMAS81
AF height deviations	Rectangular(√ 3)	± 2.0	± 2.0	NAMAS81
Phase center location	Rectangular(√ 3)	± 1.0	± 0.2	NAMAS81
Separation distance	Rectangular(√ 3)	± 0.6	± 0.4	NAMAS81
Uncertainty of Site	Rectangular(√ 3)	+2/-2.87	+ 2.86/-2.77	NSA
Mismatch ; - Receiver VRC* : Γi = 0.09 -ANT. VRC : Γg = 0.09 - Uncertainty: 20log(1± Γi Γg)	U-type √ 2	+0.07 -0.07	+0.07 -0.07	Manual
Pre-amp.	Normal (k=2)	± 0.36	± 0.36	Cal. Report
System Repeatability	Standard Deviation(SD)	± 0.3	± 0.34	5th measurement
Combined measurement uncertainty Uc(y)	**Normal**	**+ 2.61 - 2.32**	**+ 1.67 - 2.08**	
Expended measurement uncertainty (95%,Confidence level,k=2)dB	**Normal** (k=2)	30M~1GHz ; **+ 5.23 - 4.66**	30M~1GHz ; **+ 3.35 - 4.17**	

Note:VRC(Voltage Reflection Coefficient)

APPENDIX 3

Label and User's Manual Information

Certification Labeling Requirements

§ 15.19 Labeling requirements.

(a) In addition to the requirements in part 2 of this chapter, a device subject to **certification, or verification** shall be labeled as follows:

(1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device is verified to comply with part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

(4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

(5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

User's Manual Information

§ 15.21 Information to user.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart B - Unintentional Radiators:

§ 15.105 Information to the user.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

***Note**: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

--Reorient or relocate the receiving antenna.
--Increase the separation between the equipment and receiver.
--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
--Consult the dealer or an experienced radio/TV technician for help.

