TEST REPORT FOR CERTIFICATION On Behalf of Jow Tong Technology Co., Ltd. Universal Digital FM Transmitter

Model No.: ST-30

FCC ID: QPRST30

Prepared for: Jow Tong Technology Co., Ltd.

46, Lane 337, Chung Cheng Rd., Yung Kang,

Tainan Hsien 710, Taiwan, R.O.C.

Prepared by: Audix Corporation

Technical Division EMC Department No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei County, Taiwan, R.O.C.

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Date of Report : Apr. 23, 2004

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TEST REPORT CERTIFICATION

Applicant : Jow Tong Technology Co., Ltd.Manufacturer : Jow Tong Technology Co., Ltd.EUT Description : Universal Digital FM Transmitter

FCC ID : QPRST30

(A) MODEL NO. : ST-30 (B) SERIAL NO. : N/A

(C) POWER SUPPLY: DC +5V or Battery DC +3V

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, DEC. 2003 AND ANSI C63.4-2001 (FCC CFR 47 Part 15C, §15.203, §15.207, §15.209 and §15.239)

The device described above was tested by AUDIX COPORATION to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits both radiated and conducted emissions.

The measurement results are contained in this test report and AUDIX CORPORATION. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX CORPORATION.

Date of Test: Apr. $07 \sim 13,2004$

Prepared by: Monica Chang Jun. 16. 2004

(Monica Chang/Assistant)

Test Engineer: Ely Chly Jun. 18. 200

(Ben Cheng/Assistant Manager)

Approved & Authorized Signer: Won Man 10 2007

(Leon Liu/Assistant General Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Universal Digital FM Transmitter

(It's a transmitting device to hold a MP3/iPod or CD player to transmit music signal that can

accept by Car radio FM band)

Model Number : ST-30

FCC ID : QPRST30

Applicant : Jow Tong Technology Co., Ltd.

46, Lane 337, Chung Cheng Rd., Yung Kang,

Tainan Hsien 710, Taiwan, R.O.C.

Manufacturer : Jow Tong Technology Co., Ltd.

46, Lane 337, Chung Cheng Rd., Yung Kang,

Tainan Hsien 710, Taiwan, R.O.C.

Fundamental Frequency Range: FM: 88.1MHz~106.7MHz (16 channels)

Channel Number : 88.1MHz, 88.3MHz, 88.5MHz, 88.7MHz,

94.1MHz, 94.3MHz, 94.5MHz, 94.7MHz, 100.1MHz, 100.3MHz, 100.5MHz, 100.7MHz, 106.1MHz, 106.3MHz, 106.5MHz, 106.7MHz.

USB Input Voltage : DC +5V/40mA (Max.)

Battery Voltage : DC + 3V/75 mA (Max.)

Adjustable Audio Cable : Detachable, 80cm

USB Cable : Shielded, Detachable, 1.0m

(Link to PC's USB port) Bonded a ferrite core

AC Adapter : HON-KWANG, M/N: HKD-04080

(USB Type Connector) Input: 120VAC 60Hz

Output: 5VDC 300mA

DC Cord: Non-Shielded, Undetachable, 2.0m

Power-Supply Holder for Car: Jow Tong

(Optional) 12V~24V

Date of Receipt of Sample : Apr. 01, 2004

Date of Test : Apr. $07 \sim 13,2004$

Remark:

Antenna requirement: This EUT's transmitter antenna is a kind of coil ANT and solder on PCB, comply with §15.203 and inform to user that any change and modify is prohibited.

1.2. Tested Supporting System Details

1.2.1. AUDIO PLAYER (MP3/iPod, 10GB)

Model Number : A1040

Serial Number : GQ3270HVNRH

FCC ID : By DoC

Manufacturer : Apple Computer

Power Supply : DC 8-30V, 1.0A (MAX) HDD Unit : Toshiba, M/N: MK1003GAL

1.2.2. DC POWER SUPPLY (DC 12V)

Model Number : 3303A Serial Number : N/A Manufacturer : Topward

Power Wire (to EUT) : Non-Shielded, Detachable, 0.8m *2 Power Cord : Non-Shielded, Detachable, 1.8m

1.2.3. NOTEBOOK PC

Model Number : PP2130

Serial Number : 5Y32KSQZ40ME

FCC ID : By DoC BSMI ID Number : 3912A556

Brand : Comapq Computer Corporation

Manufacturer : LG Electronics Ltd.
AC Adapter : Compaq, M/N PPP009L

(LITE-ON, M/N PA-1650-02C)

Non-Shielded, Undetachable, 1.8m,

Power Cord : Non-Shielded, Detachable, 1.8m

1.3. Description of Test Facility

Name of Firm : Audix Corporation

Technical Division EMC Department No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County 24443, Taiwan, R.O.C.

Test Location & Facility

(C2/AC)

No.2 Shielded Room

No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County 24443, Taiwan, R.O.C.

Semi-Anechoic Chamber

No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County 24443, Taiwan, R.O.C.

May. 16, 2003 Re-File on

Federal Communication Commission

Registration Number: 90993

NVLAP Lab. Code : 200077-0

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±2.66dB
Radiation Test	30MHz~300MHz	+4.26dB / -4.22dB
(Distance: 3m)	300MHz~1000MHz	+5.28dB / -4.0dB

Remark : Uncertainty = $ku_c(y)$

2. POWERLINE CONDUCTED EMISSION MEASUREMENT

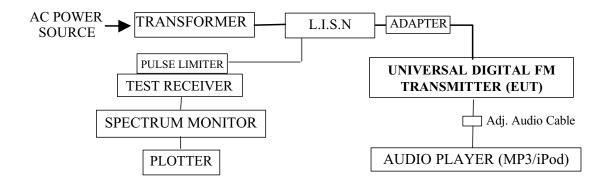
2.1. Test Equipment

The following test equipment are used during the power line conducted tests:

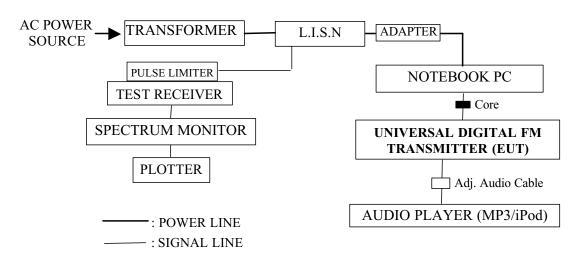
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Monitor	R & S	EZM	880486/002	N/A	N/A
2.	Test Receiver	R & S	ESH3	893044/015	Jul. 05, 03'	Jul. 04, 04'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-881-13	Apr. 16, 03'	Apr. 15, 04'
4.	Pulse Limiter	R & S	ESH3-Z2	003	Jun. 18, 03'	Jun. 17, 04'

2.2. Block Diagram of Test Setup

2.2.1. EUT's Power Supply with AC Adapter (AC 120V/60Hz)



2.2.2. EUT's Power Supply with Notebook PC--USB +5V (AC 120V/60Hz)



2.3. Conducted Limits (Comply with §15.207)

Frequency	Maximum RF Line Voltage (dBμV)			
	Quasi-Peak Level	Average Level		
150kHz ~ 500kHz	66 ~ 56 *	56 ~ 46 *		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Remark:

- 1. * Decreases with the logarithm of the frequency.
- 2. If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.4. EUT's Configuration during Compliance Measurement

The following equipment was installed on radiated measurement to meet the commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application.

2.4.1. Universal Digital FM Transmitter (EUT)

Model Number : ST-30 Serial Number : N/A

FCC ID : QPRST30

Manufacturer : Jow Tong Technology Co., Ltd.

Fundamental Frequency : FM: 88.1MHz~106.7MHz

Adjustable Audio Cable : Detachable, 80cm

USB Cable : Shielded, Detachable, 1.0m

(Link to PC's USB port) Bonded a ferrite core

AC Adapter : HON-KWANG, M/N: HKD-04080

(USB Type Connector) Input: 120VAC 60Hz

Output: 5VDC 300mA

DC Cord: Non-Shielded, Undetachable, 2.0m

2.5. Operatting Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown on 2.2.
- 2.5.2. Turned on the power of all equipment.
- 2.5.3. The EUT linked to Audio Player and set the transmitting frequency tune in to 88.1MHz \cdot 94.3MHz \cdot 100.5MHz and 106.7MHz to measure field strength.
- 2.5.4. The other peripheral devices were driven and operated in turn during all testing.

2.6. Test Procedure

The EUT was put on table which was above the ground by 80cm and it's power adapter or Notebook's adapter was connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to FCC ANSI C63.4-2001 on conducted measurement.

The bandwidth of R&S Test Receiver ESH3 was set at 10kHz.

The frequency range from 150kHz to 30MHz was checked.

EUT with the following test modes were performed during conducted voltage testing, and selected the two worst transmitting frequencies (106.7MHz and 88.1MHz) to read Q.P. & Average value, all the test results are listed in section 2.7.

	Mode	Transmitting Frequency	Power Supply
	1.	88.1MHz	
	2.	94.3MHz	w/ AC Adapter
	3.	100.5MHz	(AC 120V/60Hz)
*	4.	106.7MHz	
*	5.	88.1MHz	
	6.	94.3MHz	w/ Notebook PCUSB + 5V
	7.	100.5MHz	(AC 120V/60Hz)
	8.	106.7MHz	

2.7. Conducted Emission Measurement Results

PASSED. All emissions not reported below are too low against the prescribed limits.

Date of Test: Apr. 12, 2004 Temperature: 23 °C

EUT: Universal Digital FM Transmitter Humidity: 60%

Test Mode: Power w/AC Adapter, Transmitting frequency: 106.7MHz

	Rea	Reading		rement	Limits		Margin	
	(dB	μV)	(dB	μV)				
]	Phase Nei	utral (VA))	(dB	μV)	d	В
dB	Q.P.	Average	Q.P.	Average	Q.P.	Average	Q.P.	Average
0.4	36.8	*	37.2	*	64.3	54.3	27.1	*
0.4	34.2	*	34.6	*	62.3	52.3	27.7	*
0.4	35.6	*	36.0	*	61.1	51.1	25.1	*
0.4	33.4	*	33.8	*	59.4	49.4	25.6	*
0.5	24.0	*	24.5	*	56.3	46.3	31.8	*
0.5	18.0	*	18.5	*	56.0	46.0	37.5	*
	0.4 0.4 0.4 0.4 0.5	dB Q.P. 0.4 36.8 0.4 34.2 0.4 35.6 0.4 33.4 0.5 24.0	Phase Net dB Q.P. Average 0.4 36.8 * 0.4 34.2 * 0.4 35.6 * 0.4 33.4 * 0.5 24.0 *	Phase Neutral (VA) dB Q.P. Average Q.P. 0.4 36.8 * 37.2 0.4 34.2 * 34.6 0.4 35.6 * 36.0 0.4 33.4 * 33.8 0.5 24.0 * 24.5	Phase Neutral (VA) dB Q.P. Average Q.P. Average 0.4 36.8 * 37.2 * 0.4 34.2 * 34.6 * 0.4 35.6 * 36.0 * 0.4 33.4 * 33.8 * 0.5 24.0 * 24.5 *	Phase Neutral (VA) (dB dB Q.P. Average Q.P. Average Q.P. 0.4 36.8 * 37.2 * 64.3 0.4 34.2 * 34.6 * 62.3 0.4 35.6 * 36.0 * 61.1 0.4 33.4 * 33.8 * 59.4 0.5 24.0 * 24.5 * 56.3	Phase Neutral (VA) (dBμV) dB Q.P. Average Q.P. Average Q.P. Average 0.4 36.8 * 37.2 * 64.3 54.3 0.4 34.2 * 34.6 * 62.3 52.3 0.4 35.6 * 36.0 * 61.1 51.1 0.4 33.4 * 33.8 * 59.4 49.4 0.5 24.0 * 24.5 * 56.3 46.3	Phase Neutral (VA) (dBμV) d dB Q.P. Average Q.P. Average Q.P. Average Q.P. 0.4 36.8 * 37.2 * 64.3 54.3 27.1 0.4 34.2 * 34.6 * 62.3 52.3 27.7 0.4 35.6 * 36.0 * 61.1 51.1 25.1 0.4 33.4 * 33.8 * 59.4 49.4 25.6 0.5 24.0 * 24.5 * 56.3 46.3 31.8

Frequency	Factor	Reading		Measu	rement	Limits		Margin	
		(dB	μV)	(dB	μV)				
			Phase L	ine (VB)		(dB	μV)	d	В
(MHz)	dB	Q.P.	Average	Q.P.	Average	Q.P.	Average	Q.P.	Average
0.1648	0.4	34.2	*	34.6	*	65.2	55.2	30.6	*
0.1853	0.4	31.6	*	32.0	*	64.2	54.2	32.2	*
0.2459	0.4	33.6	*	34.0	*	61.9	51.9	27.9	*
0.3340	0.4	33.2	*	33.6	*	59.3	49.3	25.7	*
0.4617	0.5	25.6	*	26.1	*	56.0	46.6	29.9	*
0.6458	0.5	19.6	*	20.1	*	56.0	46.0	35.9	*

Remark: 1.

- 1. All readings are Quasi-Peak and Average values.
- 2. Measurement = Factor (Insertion Loss + Cable Loss) + Reading.
- 3. Margin = Limits Measurement.
- 4. The "**" means above Q.P. values have met both limits, they are not necessary to measure with average detector.
- 5. The worst emission was detected at 0.2687MHz with corrected signal level of $36.0dB\mu V$ (limit is $61.1dB\mu V$) when the VA side of the EUT's power adapter was connected to L.I.S.N.

Date of Test: Apr. 12, 2004 Temperature: 23 °C

EUT: Universal Digital FM Transmitter Humidity: 60%

Test Mode: Power w/Notebook PC, Transmitting frequency: 88.1MHz

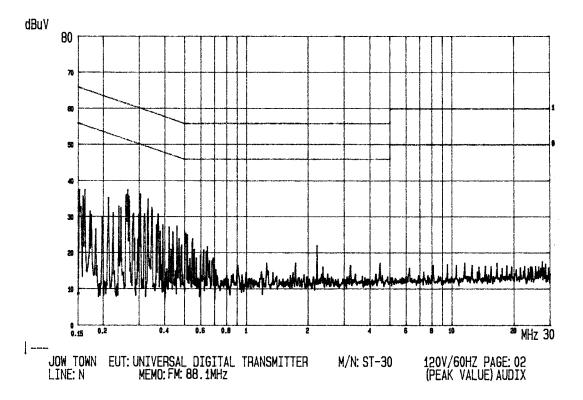
Frequency	Factor	Reading		Measu	rement	Limits		Margin	
		(dB	μV)	(dB	μV)				
			Phase Ne	utral (VA)		$(dB\mu V)$		dB	
(MHz)	dB	Q.P.	Average	Q.P.	Average	Q.P.	Average	Q.P.	Average
0.1920	0.4	47.8	*	48.2	*	63.9	53.9	15.7	*
0.2900	0.4	36.8	*	37.2	*	60.5	50.5	23.3	*
1.1101	0.5	32.6	*	33.1	*	56.0	46.0	22.9	*
5.3141	0.8	25.6	*	26.4	*	60.0	50.0	33.6	*
11.5594	0.9	32.6	*	33.5	*	60.0	50.0	26.5	*
17.4544	1.0	34.2	*	35.2	*	60.0	50.0	24.8	*

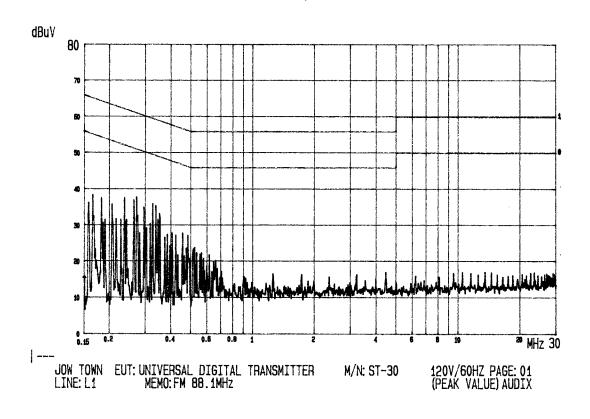
Frequency	Factor	Reading		Measu	rement	Lir	nits	Ma	rgin
		(dB	μV)	(dB	μV)				
			Phase L	ine (VB)		(dB	μV)	d	В
(MHz)	dB	Q.P.	Average	Q.P.	Average	Q.P.	Average	Q.P.	Average
0.1821	0.4	48.8	*	49.2	*	64.3	54.3	15.1	*
0.2799	0.4	39.1	*	39.5	*	60.8	50.8	21.3	*
1.1365	0.5	33.6	*	34.1	*	56.0	46.0	21.9	*
4.6141	0.8	28.4	*	29.2	*	56.0	46.0	26.8	*
12.1884	0.9	29.6	*	30.5	*	60.0	50.0	29.5	*
20.9490	1.1	31.6	*	32.7	*	60.0	50.0	27.3	*

Remark: 1. All readings are Quasi-Peak and Average values.

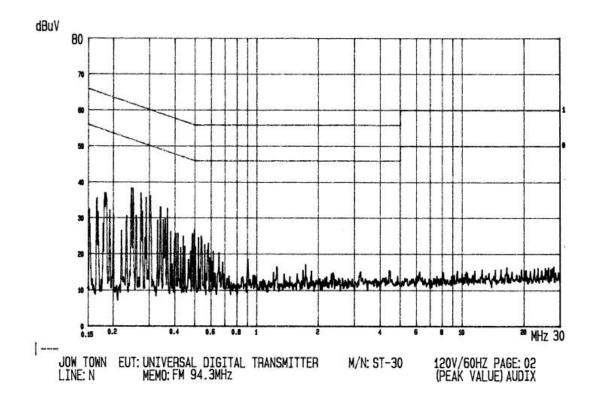
- 2. Measurement = Factor (Insertion Loss + Cable Loss) + Reading.
- 3. Margin = Limits Measurement.
- 4. The "*" means above Q.P. values have met both limits, they are not necessary to measure with average detector.
- 5. The worst emission was detected at 0.1821MHz with corrected signal level of 49.2dBμV (limit is 64.3dBμV) when the VB side of the Notebook PC's power adapter was connected to L.I.S.N.

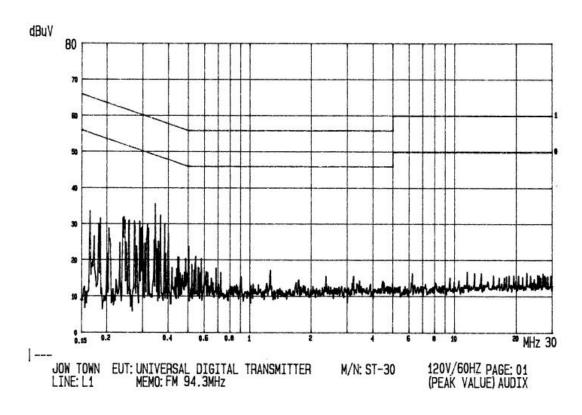
Test Mode: Power w/AC Adapter, Transmitting frequency: 88.1MHz



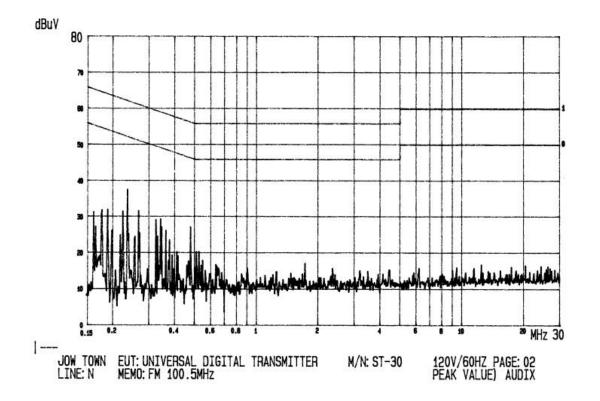


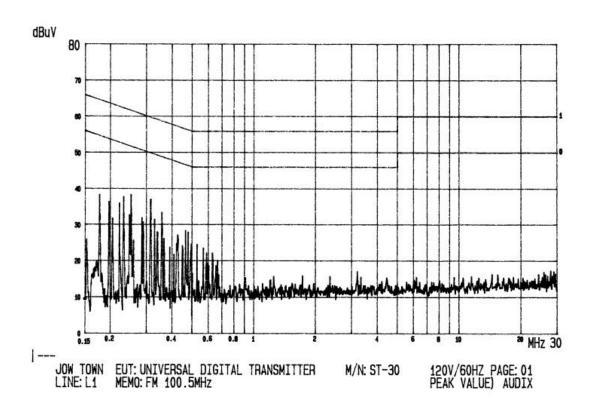
Test Mode: Power w/AC Adapter, Transmitting frequency: 94.3MHz



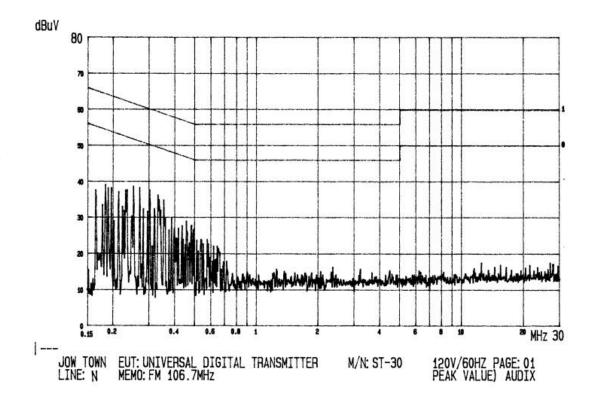


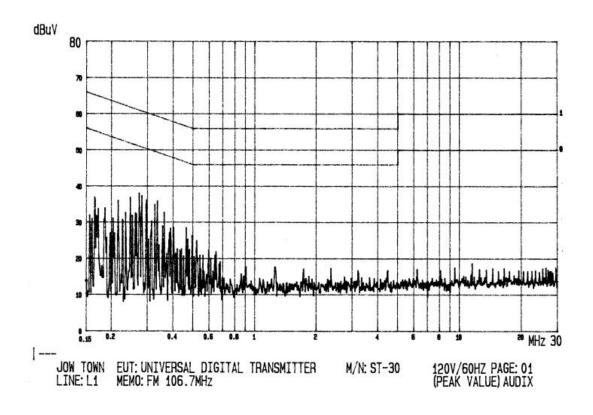
Test Mode: Power w/AC Adapter, Transmitting frequency: 100.5MHz



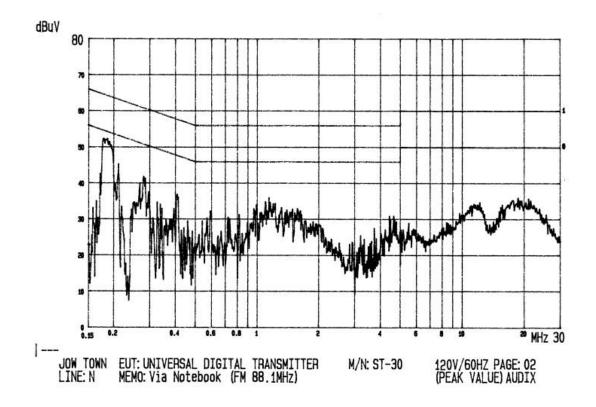


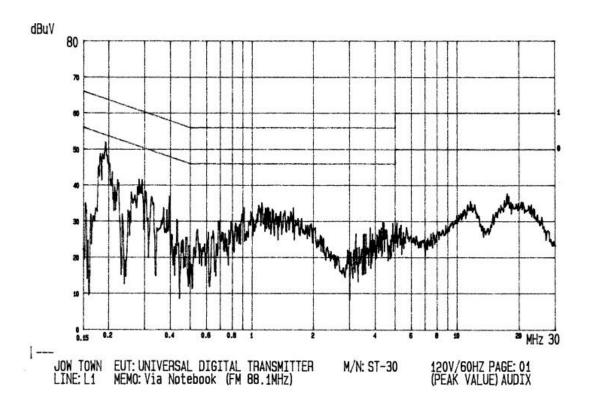
Test Mode: Power w/AC Adapter, Transmitting frequency: 106.7MHz



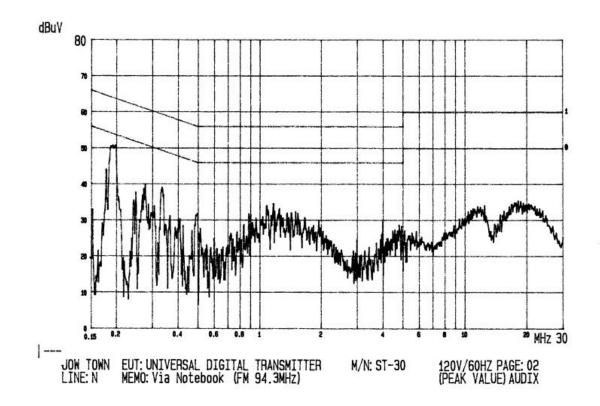


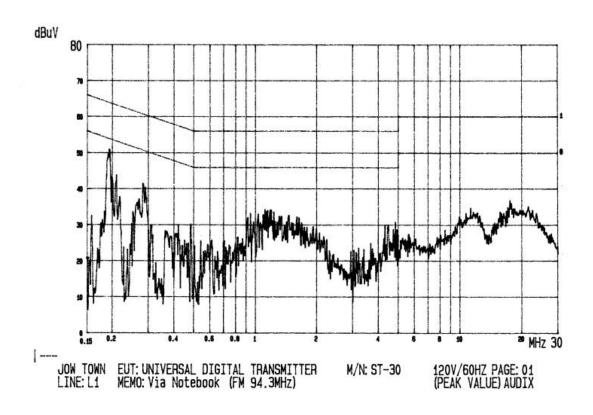
Test Mode: Power w/Notebook PC, Transmitting frequency: 88.1MHz



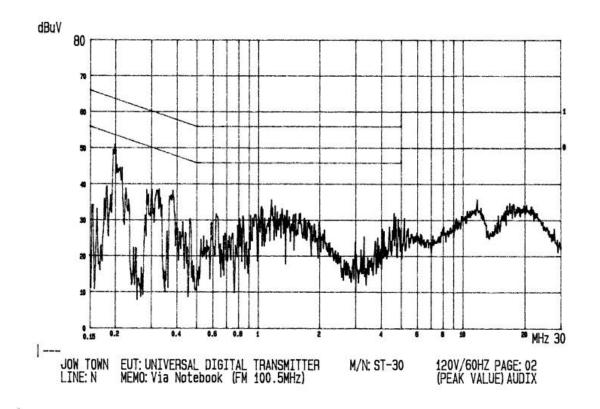


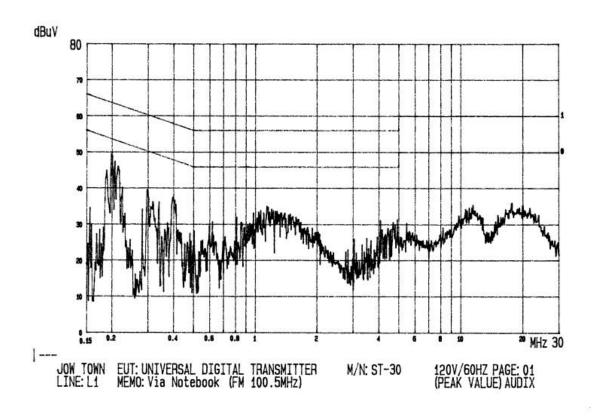
Test Mode: Power w/Notebook PC, Transmitting frequency: 94.3MHz



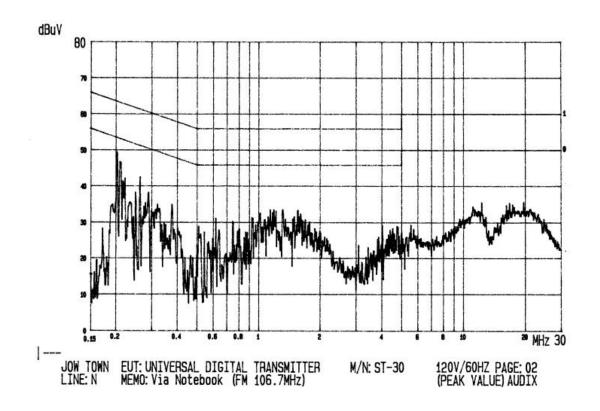


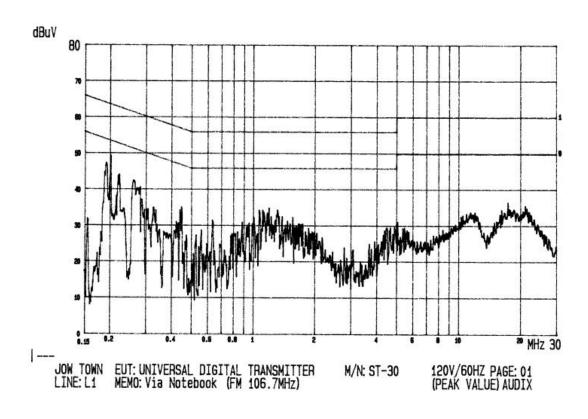
Test Mode: Power w/Notebook PC, Transmitting frequency: 100.5MHz





Test Mode: Power w/Notebook PC, Transmitting frequency: 106.7MHz





3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For 30MHz~1000MHz Frequency (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 24, 03'	Sep. 23, 04'
2.	Test Receiver	R&S	ESVP	893202/001	Jul. 09, 03'	Jul. 08, 04'
3.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 18, 04'	Mar. 17, 05'
4.	Broadband	Schwarzbeck	BBA 9106	A3L	Feb. 21, 04°	Feb. 20, 05°
	Antenna					
5.	Broadband	Schwarzbeck	UHALP9108-	0138	Feb. 21, 04°	Feb. 20, 05°
	Antenna		A			

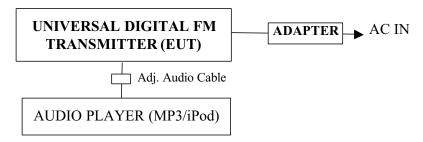
3.1.2. For above 1GHz Frequency (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 24, 03'	Sep. 23, 04'
2.	Pre-Amplifier	HP	8449B	3008A00529	Jan. 29, 04'	Jan. 28, 05'
3.	Horn Antenna	EMCO	3115	9112-3775	Apr. 21, 03'	Apr. 20, 04'

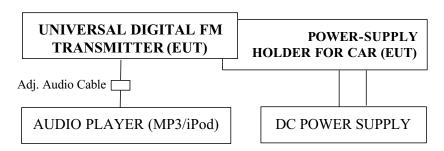
3.2. Test Setup

3.2.1. Block Diagram of connection between EUT and simulators

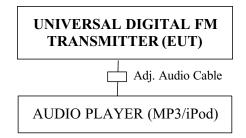
3.2.1.1. EUT's Power Supply with AC Adapter (AC 120V/60Hz)



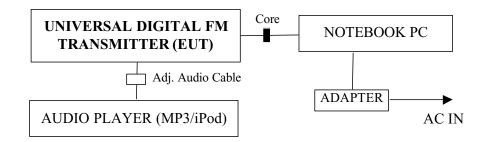
3.2.1.2. EUT's Power Supply with Power-Supply Holder for Car (DC 12V)



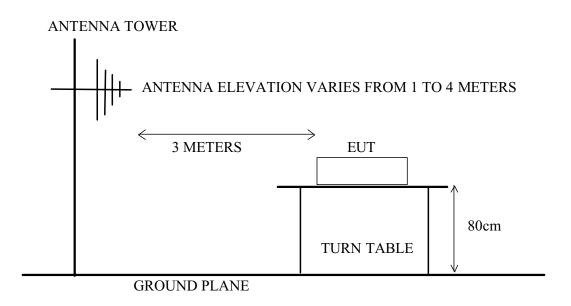
3.2.1.3. EUT's Power Supply with Battery (DC 3V)



3.2.1.4. EUT's Power Supply with Notebook PC--USB +5V (AC 120V/60Hz)



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram



3.3. Radiation Limit (Comply with §15.239 & §15.209)

3.3.1. §15.239 Radiated Emission Limits (Fundamental Frequency)

FREQUENCY	DISTANCE	FIELD ST	RENGTHS LIMITS
MHz	Meters	μV/m	dBμV/m
Fundamental Freq.	3	250	48.0 (Average)
Fundamental Freq.	3	250	68.0 (Peak)*(2)

Remark : (1) Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$

(2) The provision in section 15.35 for limiting peak emission apply.

3.3.2. §15.209 Radiated Emission Limits (Spurious Frequency)

FREQUENCY	DISTANCE	CE FIELD STRENGTHS	
MHz	Meters	μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

Remark: (1) Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$

- (2) The tighter limit applies at the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and 15.205(b) & Part 15.209(e).

3.4. EUT's Configuration during Compliance Measurement

The following equipment were installed on radiated measurement to meet the commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application.

3.4.1. Universal Digital FM Transmitter (EUT)

Model Number : ST-30
Serial Number : N/A
FCC ID : OPRST30

Manufacturer : Jow Tong Technology Co., Ltd. Fundamental Frequency : FM: 88.1MHz~106.7MHz

Adjustable Audio Cable : Detachable, 80cm

USB Cable : Shielded, Detachable, 1.0m

(Link to PC's USB port) Bonded a ferrite core

AC Adapter : HON-KWANG, M/N: HKD-04080

(USB Type Connector) Input: 120VAC 60Hz
Output: 5VDC 300mA

DC Cord: Non-Shielded, Undetachable, 2.0m

Power-Supply Holder : Jow Tong for Car : 12V~24V

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown on 3.2.
- 3.5.2. Turned on the power of all equipment.
- 3.5.3. The EUT linked to Audio Player and set the transmitting frequency tune in to 88.1MHz \, 94.3MHz \, 100.5MHz and 106.7MHz to measure field strength.
- 3.5.4. The other peripheral devices were driven and operated in turn during all testing.

3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2001 regulation.

The bandwidth of the R&S Test Receiver ESVP was set at 120kHz for frequency range 30MHz~1000MHz.

The bandwidth of the Spectrum Analyzer 8593EM was set at 1MHz for frequency range above 1GHz.

The EUT was measured with the following test modes within Semi-Aanechoic Chamber and all the scanning waveform were attached within Appendix, which include:

	Mode	Transmitting Frequency	Power Supply
	1.	88.1MHz	
	2.	94.3MHz	w/AC Adapter
	3.	100.5MHz	(AC 120V/60Hz)
	4.	106.7MHz	
	5.	106.7MHz	w/Power-Supply Holder for Car (DC 12V)
*	6.	106.7MHz	w/Battery (DC 3V)
*	7.	106.7MHz	w/Notebook PCUSB + 5V (AC 120V/60Hz)

Finally, re-measured the two worst test modes (Mode 6 & 7) at Semi-Anechoic Chamber and all the test results are listed in section 3.7.

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3.7. Radiated Emission Measurement Results

PASSED. Please refer to the following pages.

The frequency spectrum from 30 MHz to 1000MHz is investigated. All the emissions not reported below are too low against the FCC Part 15 Subpart C official limits.

Date of Test:		Apr. 13, 2004				erature :	23 ℃
EUT:	Unive	Universal Digital FM Transmitter			Hui	midity:	54%
Test Mode:	T	ransmittir	ng frequency, 1	06.7M	Hz (w/I	Battery, DC	23V)
Frequency MHz	Factor	Loss	Meter Reading Horizontal dBµV	Horiz	ontal	Limits	_
Fundamental Fr	eq. (Avera	ge Value)					
106.725 Fundamental Fr			20.90	40	. 52	48.00	7.48
106.725 Spurious Freq (25.17	44	.79	68.00	2.3, 21
213.330 320.111 426.810 430.610 533.520 584.840 674.080 728.400 978.660	17.20 18.60 19.11 20.90	7.00 6.40 6.40	14.47 3.06 9.61 13.59 3.51 1.42	24 36 25 35 39 30 29	.46 .18 .67 .46 .21 .10 .81 .79	46.00	21.83 9.33 20.54 10.79 6.90 15.19

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 - 2. The emissions level is too low against the official limit and not report.
 - 3. For frequency above 1GHz not in the report is that the noise is too low to be measured.

Date of Test:	Apr. 13, 2004			Temp	erature :	23 ℃
EUT:	Univers	al Digital	FM Transmitte	er Hu	ımidity :	54%
Test Mode:	Tra	ansmitting	frequency, 10	6.7MHz (w/	Battery, DC	23V)
Frequency	Factor	Loss	eter Reading Vertical dBμV	Vertical	Limits	Margin dB
Fundamental Fred	q. (Average	e Value)				
106.700 fundamental Fred			26.15	45.75	48.00	2.25
106.700 Spurious Freq (Q			32.35	51.95	68.00	16.05
320.142 354.950 410.240 427.803 533.520 649.830 672.140	15.30 16.40 16.40 18.50 20.43 20.80	4.90 5.15 7.00 6.30 6.40	12.92 5.76 6.86 14.92 2.17 12.71 7.29 3.84 4.75	38.93 24.48 26.53 36.22 23.72 38.21 34.02 31.04 34.05	46.00 46.00 46.00 46.00 46.00	4.57 21.52 19.47 9.78 22.28 7.79 11.98 14.96 11.95

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 - 2. The emissions level is too low against the official limit and not report.
 - 3. For frequency above 1GHz not in the report is that the noise is too low to be measured.

Date of Test:		Apr. 13, 2004			erature :	23 ℃
EUT:	Univer	Universal Digital FM Transmitter			midity:	54%
Test Mode:		Transmitting frequency, 106.7MHz (w/Notebook PCUSB + 5V, AC 120V/60Hz)				
Frequency MHz	Antenna Factor dB/m	Cable M Loss dB	Meter Reading Horizontal dBµV		Limits	Margin dB
Fundamental Fre	eq. (Averag	ge Value)				
106.725 Fundamental Fro		2.20 Value)	16.63	36.41	48.00	11.59
106.725 Spurious Freq (0			20.62	40.40	68.00	27.60
213.403 320.142 427.803 533.520 640.220 702.210 728.400 812.790 898.150	22.54 14.60 17.10 18.60 20.10 21.18 21.77 22.00 23.00	3.10 4.20 5.15 7.00 6.30 6.50 6.60 7.00	7.51 16.10 14.13 9.60 6.22 6.97 5.73 3.70 2.64	33.14 34.90 36.38 35.20 32.62 34.65 34.10 32.70 32.94	43.50 46.00 46.00 46.00 46.00 46.00 46.00 46.00	10.36 11.11 9.62 10.80 13.38 11.35 11.90 13.30 13.06

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.

- 2. The emissions level is too low against the official limit and not report.
- 3. For frequency above 1GHz not in the report is that the noise is too low to be measured.

Date of Test:		Apr. 13, 2004			perature : _	23 ℃
EUT:	Unive	Universal Digital FM Transmitter			Iumidity:	54%
Test Mode:			ransmitting fi)
Frequency MHz	Antenna Factor dB/m	Loss	Meter Reading Vertical dBμV	Vertical	Limits	Margin dB
Fundamental F	req. (Avera	ge Value)				
106.725 Fundamental F		2.20 Value)	25.43	45.03	48.00	2.97
106.725 Spurious Freq		2.20 k Value)	29.14	48.74	68.00	19.26
213.330 320.111 426.810 484.930 533.503 584.840 674.080 757.500 878.750	22.91 14.60 16.40 17.50 18.53 19.72 20.70 21.20 21.99	3.10 4.15 5.15 6.20 6.90 6.40 6.40 6.80	11.06 13.10 9.24 15.43 9.84 9.48 11.89 5.60 6.23	35.27 35.60	46.00 46.00	6.43 14.15 15.21 6.87 10.73 10.40 7.01 12.40 10.48

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 - 2. The emissions level is too low against the official limit and not report.
 - 3. For frequency above 1GHz not in the report is that the noise is too low to be measured.

4. 26dB BANDWIDTH MEASUREMENT

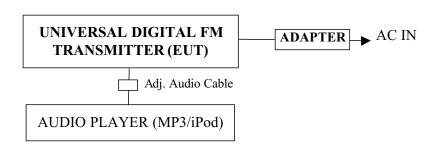
4.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Measurement:

Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Aug. 28, 03'	Aug. 27. 04'

4.2. Block Diagram of Test Setup





4.3. Specification Limits (§15.239)

The 26dB bandwidth of fundamental emission from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200kHz band shall lie wholly within the frequency range of 88.1-106.7MHz.

4.4. EUT's Configuration during Compliance Measurement

The configuration of EUT were same as section 2.4.

4.5. 26dB Bandwidth Measurement Results

PASSED. The graph of bandwidth measured is attached in next pages.

(Remark: -26dB below the peak level to measure)

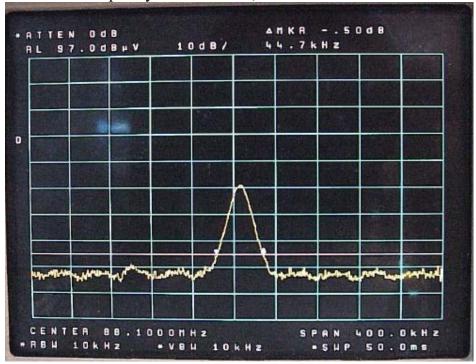
Date of Test: Apr. 13, 2004

= ···· v ···· - ··· - · · · · · ·							
Mode	Center Frequency	26dB Bandwidth	Limits				
1.	88.1000MHz	44.7kHz	200kHz				
2.	94.3000MHz	41.3kHz	200kHz				
3.	100.5000MHz	48.7kHz	200kHz				
4.	106.7000MHz	44.0kHz	200kHz				

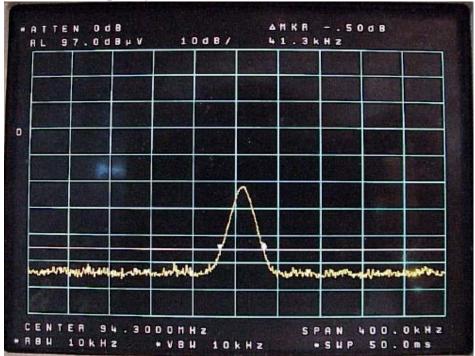
Remark: The lowest frequency is 88.07765MHz and the highest frequency is 106.7220MHz.

(Graph of Bandwidth Measurement)

Center Frequency 88.1000MHz, 26dB Bandwidth: 44.7kHz

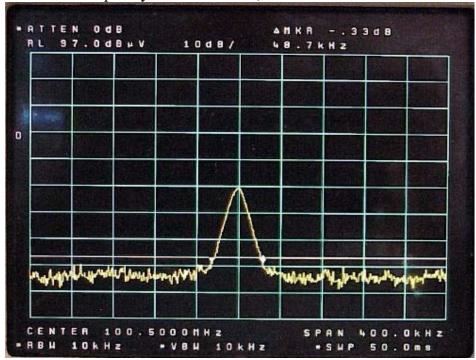


Center Frequency 94.3000MHz, 26dB Bandwidth: 41.3kHz

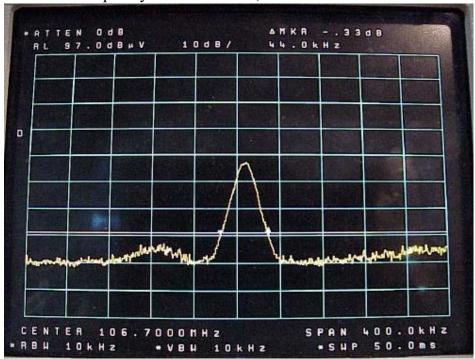


(Graph of Bandwidth Measurement)

Center Frequency 100.5000MHz, 26dB Bandwidth: 48.7kHz







5. DEVIATION TO TEST SPECIFICATIONS

[NONE]

6. PHOTOGRAPHS

6.1. Photos of Conducted Measurement

Test Mode: EUT's Power with AC Adapter (AC 120V/60Hz)



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT



Test Mode: EUT's Power with Notebook PC-- USB +5V (AC 120V/60Hz)

FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

6.2. Photos of Radiated Measurement at Semi-Anechoic Chamber

6.2.1. Frequency range 30MHz to 1000MHz

Test Mode: EUT's Power with AC Adapter (AC 120V/60Hz)



FRONT VIEW OF RADIATED MEASUREMENT

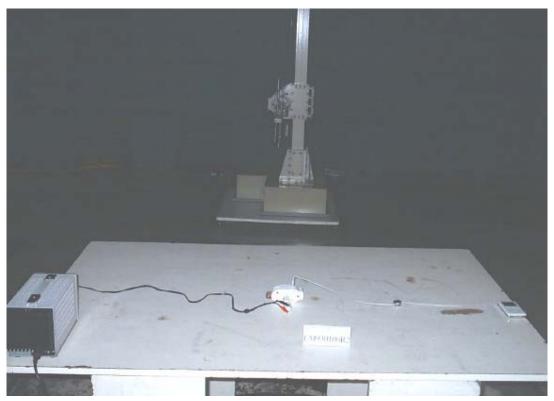


BACK VIEW OF RADIATED MEASUREMENT

EUT S Power with Power-supply Holder for Car (BC 12V)

EUT's Power with Power-Supply Holder for Car (DC 12V)



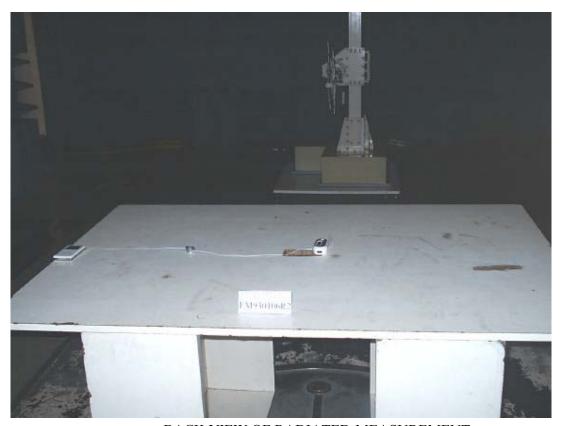


BACK VIEW OF RADIATED MEASUREMENT

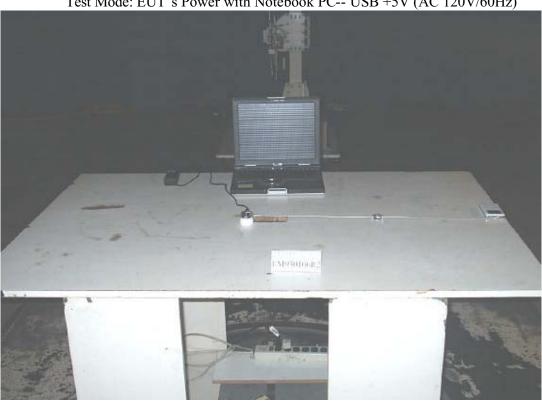
EUT's Power with Battery (DC 3V)

EM930Hirst

FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



Test Mode: EUT's Power with Notebook PC-- USB +5V (AC 120V/60Hz)





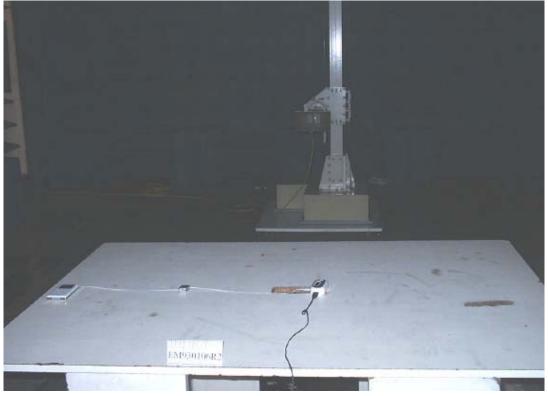
BACK VIEW OF RADIATED MEASUREMENT

6.2.2. Frequency range above 1GHz

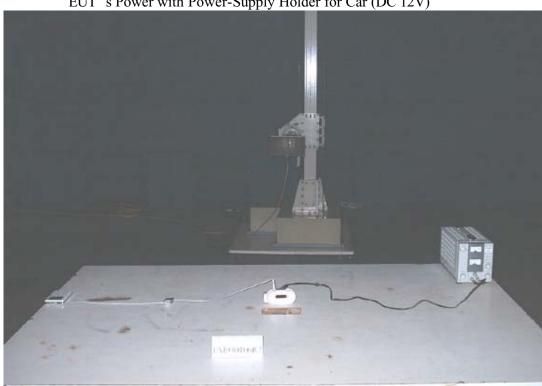
Test Mode: EUT's Power with AC Adapter (AC 120V/60Hz)



FRONT VIEW OF RADIATED MEASUREMENT

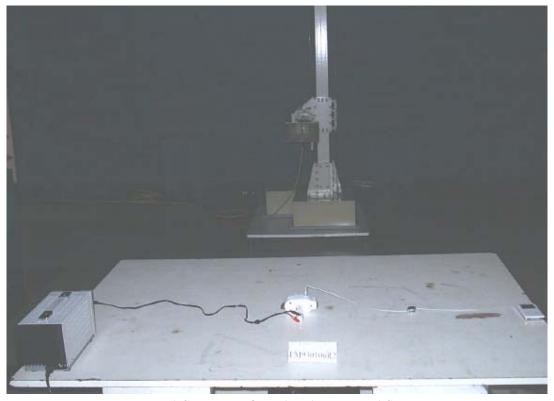


BACK VIEW OF RADIATED MEASUREMENT



EUT's Power with Power-Supply Holder for Car (DC 12V)





BACK VIEW OF RADIATED MEASUREMENT

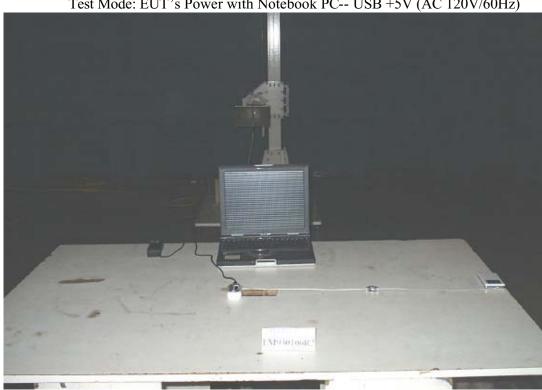
EUT's Power with Battery (DC 3V)



FRONT VIEW OF RADIATED MEASUREMENT

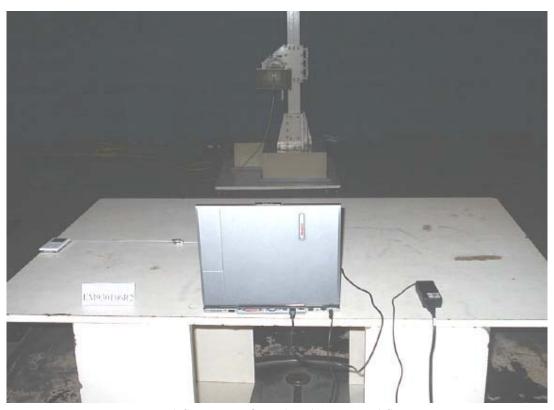


BACK VIEW OF RADIATED MEASUREMENT



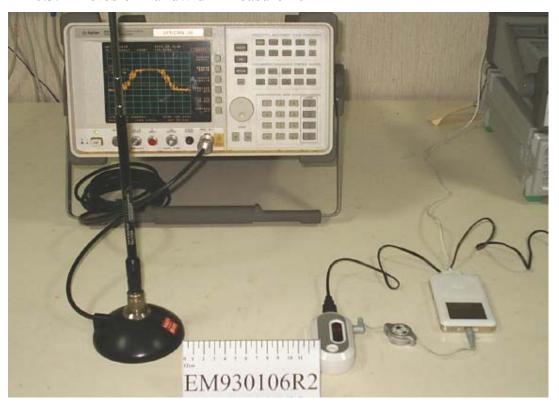
Test Mode: EUT's Power with Notebook PC-- USB +5V (AC 120V/60Hz)

FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

6.3. Photos of Bandwidth Measurement



APPENDIX

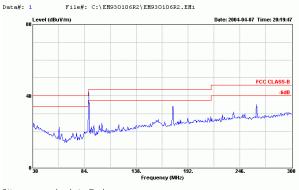
Radiated Test Data At Semi-Anechoic Chamber

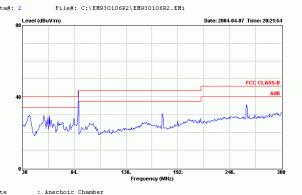
(Total Pages: 10)





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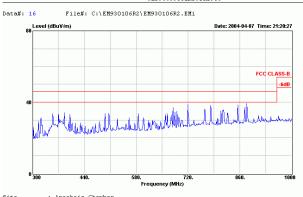
: Anechoic Chamber : FCC CLASS-B 3m BBA9106(A3L) HORIZONTAL Condition : Universal Digital Transmitter : M/N:ST-30 EUT MENO POWER: 120Vac/60Hz MODE:FM 88.1MHz ENVIRONMENT: 22*C/56%

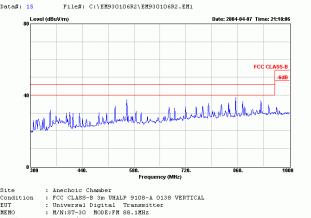
Site : FCC CLASS-B 3m BBA9106(A3L) VERTICAL : Universal Digital Transmitter : M/N:ST-30 Condition EUT MEMO POWER: 120Vac/60Hz MODE:FM 88.1MHz ENVIRONMENT: 22*C/56%



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: Anechoic Chamber : FCC CLASS-B 3m UHALP 9108-A 0138 HORIZONTAL : Universal Digital Transmitter : M/N:ST-30 McDE:FM 88.1MHz Condition EUT MEMO

EUT MEMO POWER 120Vac/60Hz

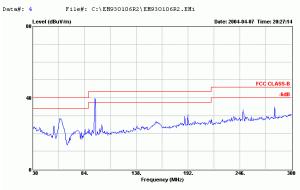
ENVIRONMENT : 22*C/56%

Condition





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Level (dBuV/m) Date: 2004-04-07 Time: 20:25:20 FCC CLASS-B -6dB Frequency (MHz)

File#: C:\EM930106R2\EM930106R2.EM1

: Anechoic Chamber : FCC CLASS-B 3m BBA9106(A3L) HORIZONTAL : Universal Digital Transmitter : M/N:ST-30 Condition MENO POWER: 120Vac/60Hz MODE:FM 94.3MHz ENVIRONMENT: 22*C/56%

: Anechoic Chamber

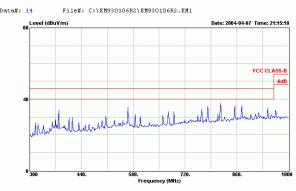


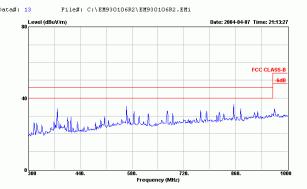
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: Anechoic Chamber : FCC CLASS-B 3m UHALP 9108-A 0138 HORIZONTAL : Universal Digital Transmitter : M/N:ST-30 HODE:FM 94.3HE Condition EUT MEMO

120Vac/60Hz

POWER : 120Vac/6 ENVIRONMENT : 22*C/56%

: Anechoic Chamber : FCC CLASS-B 3m UHALP 9108-A 0138 VERTICAL : Universal Digital Transmitter : M/N:ST-30 MODE:FN 94.3HHz Condition EUT MEMO POWER 120Vac/60Hz

ENVIRONMENT : 22*C/56%

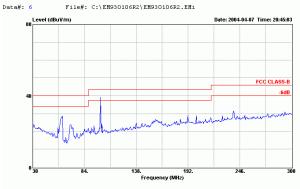
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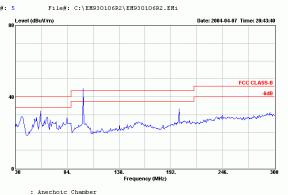
Report No. EM-F930073





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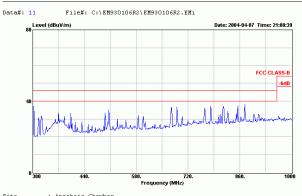
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Site



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: Anechoic Chamber : FCC CLASS-B 3m UHALP 9108-A 0138 HORIZONTAL : Universal Digital Transmitter : M/N:ST-30 McDE:FM 100.5MHz Condition EUT MEMO

POWER 120Vac/60Hz

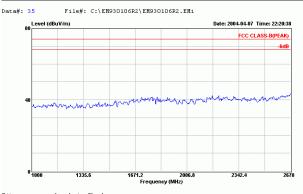
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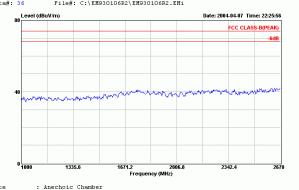
ENVIRONMENT : 22*C/56%





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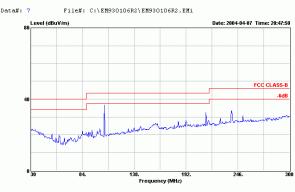


SIGE : Anechoic Chamber
Condition : FCC CLASS-B (PEAK) 3m 3115 VERTICAL
EUT : Universal Digital Transmitter
NEMO : M/N:ST-30
POWER : 120%-6/60Hz MODE:FH 100.SHHz
ENVIRONMENT : 22°C/56%



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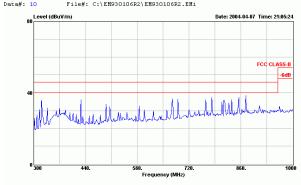


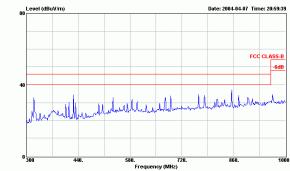
| Site |





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File#: C:\EM930106R2\EM930106R2.EM1

: Anechoic Chamber

: FCC CLASS-B 3m UHALP 9108-A 0138 HORIZONTAL : Universal Digital Transmitter : M/N:ST-30 MoDE:FN 106.7MHz Condition

MENO

POWER : 120Vac/60Hz ENVIRONMENT : 22*C/56%

Site : Anechoic Chamber

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: Anechoic Chamber : FCC CLASS-B(PEAK) 3m 3115 HORIZONTAL : Universal Digital Transmitter Condition EUT MEMO

: M/N:ST-30

120Vac/60Hz MODE:106.7MHz

POWER : 120Vac/60 ENVIRONMENT : 22*C/56%

: Anechoic Chamber : FCC CLASS-B(PEAK) 3m 3115 VERTICAL : Universal Digital Transmitter Condition

EUT MEMO

: M/N:ST-30

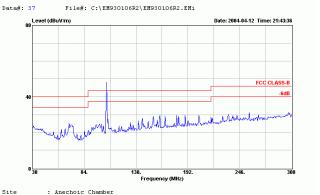
POWER : 120Vac/60Hz MODE:FM 106.7MHz ENVIRONMENT : 22*C/56%





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: Anechoic Chamber SIGE : Amechoic Chamber
Condition : FCC (LASS-B 3m BBA9106(A3L) HORIZONTAL
EUT : Universal Digital Transmitter
MEMO : M/N:ST-30 MODE:FM 106.7MHz
POWER : DC 12V
ENVIRONMENT : 25°C/52%

: FCC CLASS-B 3m BBA9106(A3L) VERTICAL : Universal Digital Transmitter : M/N:ST-30 MODE:FM 106.7MHz EUT MEMO

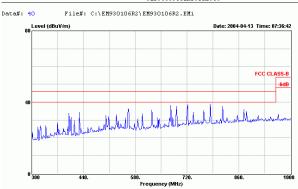
POWER : DC 12V ENVIRONMENT : 25*C/52%

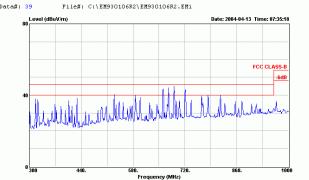
Condition



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: Anechoic Chamber : FCC CLASS-B 3m UHALP 9108-A 0138 HORIZONTAL : Universal Digital Transmitter : M/N:ST-30 McDE:FM 106.7MHz Condition EUT MEMO

POWER : DC 12V ENVIRONMENT : 23*C/54%

: Anechoic Chamber : FCC CLASS-B 3m UHALP 9108-A 0138 VERTICAL : Universal Digital Transmitter : M/N:ST-90 MODE:FN 106.7MHz Condition

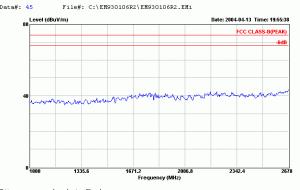
EUT MEMO

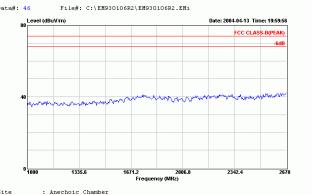
POWER : DC 12V ENVIRONMENT : 23*C/54%





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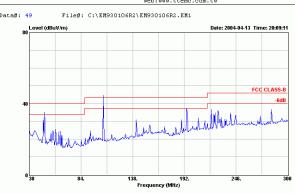


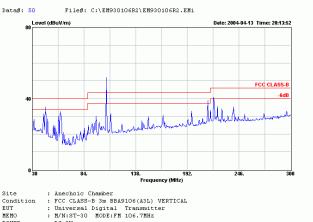
: Anechoic Chamber SIGE : Anechoic Chamber
Condition : FCC CLASS-B (PEAK) 3m 3115 VERTICAL
EUT : Universal Digital Transmitter
NEMO : M/N:ST-30
POWER : DC 12V MODE:FM 106.7MHz
ENVIRONMENT : 23°C/54%



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Anechoic Chamber
FCC CLASS-B 3m BBA9106(A3L) HORIZONTAL
Universal Digital Transmitter
M/N:ST-30 MODE:FM 106.7HHz Site Condition EUT MEMO

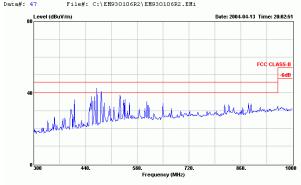
Site Condition EUT MEMO

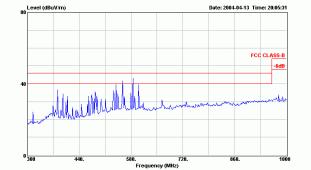
POWER : DC 3V ENVIRONMENT : 23*C/54%





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File#: C:\EM930106R2\EM930106R2.EM1

: Anechoic Chamber Site : Amechoic Chamber
Condition : FCC CLASS-B 3m UHALP 9108-A 0138 HORIZONTAL
EUT : Universal Digital Transmitter
MEMO : M/N:ST-30 MODE:FM 106.7MHz
POWER : DC 3V
ENVIRONMENT : 23*C/54*

: Anechoic Chamber

: FCC CLASS-B 3m UHALP 9108-A 0138 VERTICAL : Universal Digital Transmitter : M/N:ST-30 MODE:FM 106.7MHz Condition

EUT MEMO

POWER : DC 3V ENVIRONMENT : 23*C/54%



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File#: C:\EM930106R2\EM930106R2.EMi



: Anechoic Chamber : FCC CLASS-B(PFAK) 3m 3115 HORIZONTAL : Universal Digital Transmitter : M/N:ST-30 Condition EUT MEMO

POWER : DC 3V MODE:106.7MHz ENVIRONMENT : 23*C/54%

: Anechoic Chamber : FCC CLASS-B(PEAK) 3m 3115 VERTICAL : Universal Digital Transmitter Condition EUT MEMO

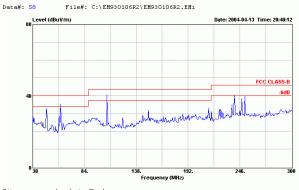
: M/N:ST-30

POWER : DC 3V MODE:FM 106.7MHz ENVIRONMENT : 23*C/54%





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File#: C:\EM930106R2\EM930106R2.EM1 Level (dBuV/m) Date: 2004-04-13 Time: 20:36:15 when the warmen the warmen Frequency (MHz)

: Anechoic Chamber SIGE : Amechoic Chamber
Condition : FCC CLASS-B 3m BBA9106(A3L) HORIZONTAL
EUT : Universal Digital Transmitter
MEMO : M/N:ST-30 NODE:FM 106.7MHz
ENVIRONMENT : 23°C/54% SIGE : Amechoic Chamber
Condition : FOC CLASS-B 3m BBA9106 (A3L) VERTICAL
EUT : Universal Digital Transmitter
NEMO : M/N:3T-30 MODE:FN 106.7MHz
POWER : Via Notebook
ENVIRONMENT : 23*C/54%

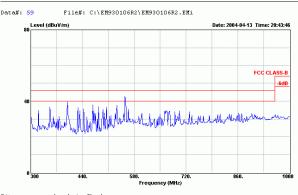
: Anechoic Chamber

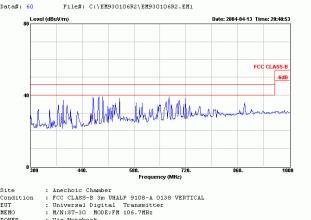
Site



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: Anechoic Chamber : FCC CLASS-B 3m UHALP 9108-A 0138 HORIZONTAL : Universal Digital Transmitter : M/N:ST-30 McDE:FM 106.7MHz Condition EUT MEMO

EUT MEMO

Condition

POWER : Via Notebook ENVIRONMENT : 23*C/54%

POWER : Via Notebook ENVIRONMENT : 23*C/54%





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