

Spectrum Research & Testing Lab., Inc.

No.167,Ln. 780, Shan-Tong Rd.,Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan County 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A13051706 Report No.:FCCA13051706

FCC ID: 2AAEVEM-898B

Page: 1 of 36

Date: Jun. 14, 2013

Product Name:

PC Base Paging Control Unit (TX)

Model No.:

EM-898B

Applicant:

Ototronix

26620 Interstate 45 North,

Spring, TX-77386-1016, U.S.A

Date of Receipt:

May. 17, 2013

Finished date of Test:

Jun. 03, 2013

Applicable Standards:

47 CFR Part 15, Subpart C

47 CFR Part 15, Subpart B

ANSI C63.4: 2003

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By :

(Richard Lin)

Date:

6/14 /10

Approved By:

(Johnson Ho Director)

Date:



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 2 of 36

Date: Jun. 14, 2013

Revisions History

Report No.	Issue Date	Revisions
FCCA13051706	Jun. 14, 2013	Initial issue

Spectrum Research & Testing Lab., Inc. No.167,Ln. 780, Shan-Tong

No.167,Ln. 780, Shan-Tong Rd.,Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan County 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 3 of 36 Date: Jun. 14, 2013

Table of Contents

 DOCUMENT POLICY AND TEST STATEMENT 	4
1.1 DOCUMENT POLICY	4
1.2 TEST STATEMENT	
1.3 EUT MODIFICATION	4
2. DESCRIPTION OF EUT AND TEST MODE	5
2.1 GENERAL DESCRIPTION OF EUT	5
2.3 DESCRIPTION OF EUT INTERNAL DEVICE	5
2.4 EUT OPERATING CONDITION	5
2.5 DESCRIPTION OF TEST MODE	6
2.6 DESCRIPTION OF SUPPORT UNIT	
3. DESCRIPTION OF APPLIED STANDARDS	7
3.1 SUMMARY OF TEST RESULTS	7
4.1 CONDUCTED EMISSION TEST	
4.1.1 LIMIT	
4.1.2 TEST EQUIPMENT	8
4.1.3 TEST SETUP	
4.1.4 TEST PROCEDURE	9
4.1.5 TEST RESULT	10
4.2 20DB BANDWIDTH	
4.2.1 LIMIT	13
4.2.2 TEST EQUIPMENT	
4.2.3 TEST SET-UP	
4.2.4 TEST PROCEDURE	
4.2.5 EUT OPERATING CONDITION	13
4.2.6 TEST RESULT	
4.3 RELEASE OR OPERATING TIME	15
4.3.1 LIMIT	
4.3.2 TEST EQUIPMENT	
4.3.3 TEST SET-UP	
4.3.4 EUT OPERATING CONDITION	
4.3.5 TEST RESULT	
4.4 FUNDERMENTAL & SPURIOUS RADIATED EMISSION TEST	
4.4.1 LIMIT	
4.4.2 TEST EQUIPMENT	
4.4.3 TEST SET-UP	
4.4.4 TEST PROCEDURE	
4.4.5 TEST RESULT	
5. PHOTOS OF TESTING	
6 TERMS OF ABBREVIATION	36



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 4 of 36

Date: Jun. 14, 2013

1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC 120V/60Hz for PC USB port, was used during the test.

1.3 EUT MODIFICATION

- No modification in SRT Lab.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 5 of 36 Date: Jun. 14, 2013

2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	PC Base Paging Control Unit (TX)		
MODEL NO.	EM-898B		
POWER SUPPLY	AC power source of PC for USB port : AC 120V/60Hz		
CABLE	NA		
CARRIER FREQUENCY	433.92 MHz		
NUMBER OF CHANNEL	1		
RATED RF OUTPUT POWER	62.58 dBuV/m = -44.41 dBm = 36.22 μW		
MODULATION TYPE	FSK		
MODE OF OPERATION	Simplex		
ANTENNA TYPE	Linx Antenna,		
ANTENNA TIPE	(Model Number:ANT-433-CW-HWR-RPS)		
ANTENNA GAIN	1.1 dBi		
OPERATING TEMPERATURE	-20 ~ 50°C		
RANGE	20 00 0		

NOTE: For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.3 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL#	FCC ID / DOC	REMARK
NA				

2.4 EUT OPERATING CONDITION

- 1. Setup the EUT and all peripheral devices .
- 2. Turn on the power of all equipment and EUT.
- 3. Set the EUT under continuous transmission condition, standby and link mode.
- 4. The EUT was set to the highest available power level.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 6 of 36 Date: Jun. 14, 2013

2.5 DESCRIPTION OF TEST MODE

	Мо	Frequency	
1	Tx	Tx	433.92 MHz
2	IX	Standby	NA
3	Rx	Link	NA

NOTE: The axis X,Y and Z we evaluate in chamber, the X axis is worst case.

X axis: Y axis: Z axis:







2.6 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:2003. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL#	FCC ID/DOC	CABLE
1	PC	ACER	Aspire SA85	DoC	1.5m unshielded power cable
2	CRT Monitor	SAMSUNG	PG17IS	DoC	1.8m unshielded power cord 1.5m shielded data cable. with one core.
3	Keyboard	WinTEK	WM530	DoC	1.8m unshielded data cable.
4	Mouse	WinTEK	WSS30	DoC	1.5m unshielded data cable.
5	Modem	ACEEX	DM-1414	DoC	1.5m unshielded power cord 1.5m shielded data cable.
6	Printer	EPSON	STYLUS C20SX	N/A	1.5m unshielded power cord 1.2m shielded data cable.
7	Paging Receiver Unit (RX)	Ototronix	M-1000P4	2AAEVM-1000P4	Rx Paging (433.92 MHz)

NOTE: For the actual test configuration, please refer to the photos of testing.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 7 of 36 Date: Jun. 14, 2013

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a wireless product. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C

47 CFR Part 15, Subpart B

ANSI C63.4: 2003

All tests have been performed and recorded as the above standards.

3.1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE AND LIMIT RESULTS	RESULTS
15.207	AC Power Conducted Emission	PASS
15.231(a)	RELEASE OR OPERATING TIME Limit: max. 5 seconds	PASS
15.231(c)	20dB bandwidth Limit: 0.25% × Center Frequency	PASS
15.231(b) 15.33(a) 15.209	FUNDERMENTAL & SPURIOUS RADIATED EMISSION	PASS



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 8 of 36 Date: Jun. 14, 2013

4.1 CONDUCTED EMISSION TEST

4.1.1 LIMIT

Frequency (MHz)	Class A	(dBµV)	Class B (dBµV)		
	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST EQUIPMENT

The following test equipment was used for the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST	9 kHz ~	ROHDE &	ESCS30 /	DEC. 16, 2013
RECEIVER	2.75 GHz	SCHWARZ	100376	ETC
EMI TEST	9 kHz ~	ROHDE &	ESHS30 /	JAN. 22, 2014
RECEIVER	30 MHz	SCHWARZ	826003/008	ETC
LISN	50 μH, 50 ohm	FCC	FCC-LISN-50-25-2 / 01017	JUN. 21, 2013 ETC
11011	50 11 50 1	001.45	9252-50-R-24-BNC/	OCT. 21, 2013
LISN	50 μH, 50 ohm	SOLAR	951315	ETC
LICN	50 50 above	FMCC	3825/2/	JUN. 06, 2013
LISN	50 μH, 50 ohm	EMCO	9204-1952	ETC
50Ω BNC TYPE	50 above	NI/A	B00-CD-204/	JUN. 24, 2013
TERMINATOR	50 ohm	N/A	L1TEQU008	ETC
50Ω BNC TYPE	50 ohm	N/A	B00-CD-357/	JUN. 24, 2013
TERMINATOR	50 OHH	IN/A	L1TEQU009	ETC
COAXIAL CABLE	5 m	HUBER+SUHNE	RG214/U /	MAY. 21, 2014
COAXIAL CABLE	3 III G	R	#5M(L1TCAB013)	ETC
FILTER	2 LINE, 30 A	FIL.COIL	FC-943 / 771	NCR
GROUND PLANE	2 m (H) x 3 m (W)	SRT	N/A	NCR
GROUND PLANE	2.5 m (H) x 3 m (W)	SRT	N/A	NCR
PULSE LIMITER	9 kHz ~	ROHDE &	ESH3Z2/	JAN. 07, 2014
PULSE LIMITER	30 MHz	SCHWARZ	L1TTES010	ETC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

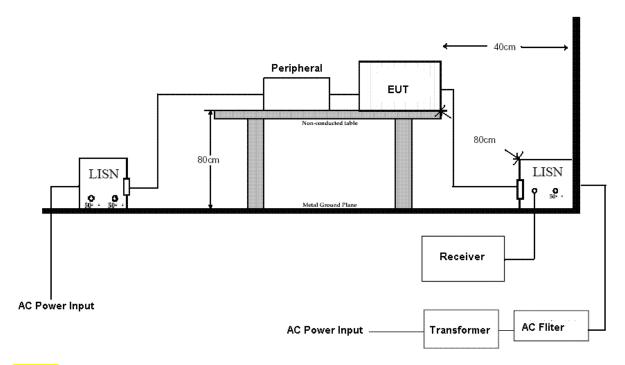


TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 9 of 36 Date: Jun. 14, 2013

4.1.3 TEST SETUP



NOTE:

- 1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
- 2. For the actual test configuration, please refer to the photos of testing.

4.1.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR22:2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50µH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 10 of 36 Date: Jun. 14, 2013

4.1.5 TEST RESULT

22 °C Humidity: Temperature: 57 %RH Tested By: Richard Lin Tested Mode: Tx FSK Receiver Detector: Q.P. and AV. Modulation Type: Frequency Range: 0.15 - 30 MHzTested Date: Jun. 03, 2013

Power Line Measured: Line

Freq.	req. Factor (dBuV)		Emission Level (dBμV)		Limit (dBµV)		Margin (dB)		
(1411 12)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.300	0.00	36.24	32.26	36.24	32.26	60.25	50.25	-24.01	-17.99
0.303	0.00	35.22	31.89	35.22	31.89	60.16	50.16	-24.94	-18.27
4.012	0.01	30.52	26.13	30.53	26.14	56.00	46.00	-25.47	-19.86
4.507	0.02	35.30	33.54	35.32	33.56	56.00	46.00	-20.68	-12.44
14.602	0.19	29.88	20.23	30.07	20.42	60.00	50.00	-29.93	-29.58
19.684	0.28	35.44	27.40	35.72	27.68	60.00	50.00	-24.28	-22.32

Power Line Measured: Neutral

Freq.	Correct. Factor		g Value μV)		Emission Level (dBμV)		Limit (dBμV)		Margin (dB)	
(IVITIZ)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
0.903	0.04	28.52	25.73	28.56	25.77	56.00	46.00	-27.44	-20.23	
4.457	0.12	37.86	36.74	37.98	36.86	56.00	46.00	-18.02	-9.14	
4.764	0.13	37.90	35.24	38.03	35.37	56.00	46.00	-17.97	-10.63	
5.061	0.14	36.72	35.41	36.86	35.55	60.00	50.00	-23.14	-14.45	
5.365	0.14	35.18	34.14	35.32	34.28	60.00	50.00	-24.68	-15.72	
19.684	0.49	35.82	27.19	36.31	27.68	60.00	50.00	-23.69	-22.32	

- 1. Measurement uncertainty is ±3.61dB
- 2. Emission level = Reading valus + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies was very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 11 of 36 Date: Jun. 14, 2013

Temperature: 22 °C Humidity: 57 %RH Richard Lin Tested Mode: Tested By: Standby Q.P. and AV. Receiver Detector: Modulation Type: FSK 0.15 - 30 MHzJun. 03, 2013 Frequency Range: Tested Date:

Power Line Measured: Line

Freg.		•					nit μV)	Margin (dB)	
(IVITZ)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.300	0.00	37.54	33.53	37.54	33.53	60.25	50.25	-22.71	-16.72
0.303	0.00	36.14	32.68	36.14	32.68	60.16	50.16	-24.02	-17.48
4.081	0.01	33.46	30.03	33.47	30.04	56.00	46.00	-22.53	-15.96
4.734	0.02	32.60	29.07	32.62	29.09	56.00	46.00	-23.38	-16.91
14.805	0.20	31.42	22.29	31.62	22.49	60.00	50.00	-28.38	-27.51
17.983	0.25	38.54	26.27	38.79	26.52	60.00	50.00	-21.21	-23.48

Power Line Measured: Neutral

Freq.	Correct. Factor	· ·	g Value μV)		n Level μV)		nit μV)		rgin B)
(IVITIZ)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.300	0.04	35.28	31.42	35.32	31.46	60.25	50.25	-24.93	-18.79
4.229	0.12	37.60	36.76	37.72	36.88	56.00	46.00	-18.28	-9.12
4.457	0.12	38.62	37.20	38.74	37.32	56.00	46.00	-17.26	-8.68
5.061	0.14	37.34	36.30	37.48	36.44	60.00	50.00	-22.52	-13.56
5.365	0.14	34.24	32.48	34.38	32.62	60.00	50.00	-25.62	-17.38
17.983	0.45	38.34	25.49	38.79	25.94	60.00	50.00	-21.21	-24.06

- 1. Measurement uncertainty is ±3.61dB
- 2. Emission level = Reading valus + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies was very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 12 of 36 Date: Jun. 14, 2013

Temperature: 22 °C Humidity: 57 %RH

Tested By: Richard Lin Tested Mode: Link

Receiver Detector: Q.P. and AV. Modulation Type: FSK

Frequency Range: 0.15 – 30 MHz Tested Date: Jun. 03, 2013

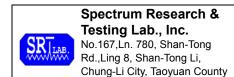
Power Line Measured: Line

Freq.	Correct.	Readin	g Value	Emissio	n Level	Lir	nit	Mai	gin
(MHz)	Factor	(dB	μ V)	(dB	μ V)	(dB	μ V)	(d	B)
(1411 12)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.300	0.00	36.00	32.24	36.00	32.24	60.25	50.25	-24.25	-18.01
0.303	0.00	34.82	31.70	34.82	31.70	60.16	50.16	-25.34	-18.46
3.705	0.01	30.22	27.15	30.23	27.16	56.00	46.00	-25.77	-18.84
4.507	0.02	34.92	33.03	34.94	33.05	56.00	46.00	-21.06	-12.95
14.805	0.20	31.28	22.43	31.48	22.63	60.00	50.00	-28.52	-27.37
23.118	0.33	39.62	23.07	39.95	23.40	60.00	50.00	-20.05	-26.60

Power Line Measured: Neutral

Freq.	Correct. Factor	· ·	g Value μV)		n Level μV)		nit μV)		gin B)
(IVITIZ)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.903	0.04	28.92	26.17	28.96	26.21	56.00	46.00	-27.04	-19.79
4.229	0.12	37.60	36.67	37.72	36.79	56.00	46.00	-18.28	-9.21
4.457	0.12	38.14	37.36	38.26	37.48	56.00	46.00	-17.74	-8.52
5.061	0.14	37.18	36.43	37.32	36.57	60.00	50.00	-22.68	-13.43
8.309	0.22	34.44	31.91	34.66	32.13	60.00	50.00	-25.34	-17.87
23.118	0.57	39.22	23.60	39.79	24.17	60.00	50.00	-20.21	-25.83

- 1. Measurement uncertainty is ±3.61dB
- 2. Emission level = Reading valus + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies was very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 13 of 36 Date: Jun. 14, 2013

4.2 20dB Bandwidth

4.2.1 LIMIT

FREQUENCY (MHz)	BANDWIDTH LIMIT(kHz)
Above 70-900	0.25% × Center Frequency(MHz)
Above 900	0.5% × Center Frequency(MHz)

NOTE: Bandwidth is determined at the points 20dB down from the modulated carrier.

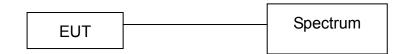
4.2.2 TEST EQUIPMENT

The following test equipment was used during the test:

	SPECIFICATIONS	MANUFACTURER		DUE DATE OF CAL. &
FACILITIES			SERIAL#	CAL. CENTER
EMI TEST RECEIVER		ROHDE &		MAR. 28. 2014
(INCLUDE SPECTRUM	9 KHz ~ 6 GHz		ESL /100176	WAR. 26, 2014
`		SCHWARZ		ETC
ANALYZER)				

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.2.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.2.4 TEST PROCEDURE

Please refer to FCC Part15C 15.231.

4.2.5 EUT OPERATING CONDITION

The EUT was operated in continunely transmitting mode.



TEST REPORT

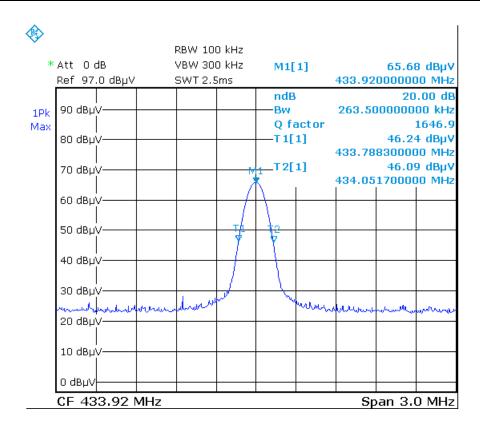
Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 14 of 36 Date: Jun. 14, 2013

4.2.6 TEST RESULT

Temperature:	23°C	Humidity:	61%RH
Spectrum Detector:	PK	Tested by:	Richard Lin
Test Result:	PASS	Tested Date:	May. 29, 2013

Channel Number	Channel Frequency (MHz)	20dB Down Bandwidth (kHz)	Maximum Limit (kHz)	Pass/Fail
1	433.92	263.5	1085	Pass





TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 15 of 36 Date: Jun. 14, 2013

4.3 RELEASE OR OPERATING TIME

4.3.1 LIMIT

- 1. A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- 2. A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- 3). Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions to determine system integrity of transmitters used in security or safety applications are allowed if the periodic rate of transmission does not exceed one transmission of not more than one second duration per hour for each transmitter.
- 4. Intentional radiators, which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pungency of the alarm condition.

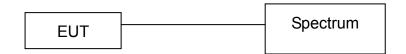
4.3.2 TEST EQUIPMENT

The following test equipment was used during the test:

EQUIPMENT/	SDECIFICATIONS	MANUFACTURER	MODEL#/	DUE DATE OF CAL. &
FACILITIES	SPECIFICATIONS	WANDFACTURER	SERIAL#	CAL. CENTER
EMI TEST RECEIVER		ROHDE &		MAD 20 2014
(INCLUDE SPECTRUM	9 KHz ~ 6 GHz		ESL /100176	MAR. 28, 2014 FTC
ANALYZER)		SURVVARZ		EIC

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 16 of 36 Date: Jun. 14, 2013

4.3.4 EUT OPERATING CONDITION

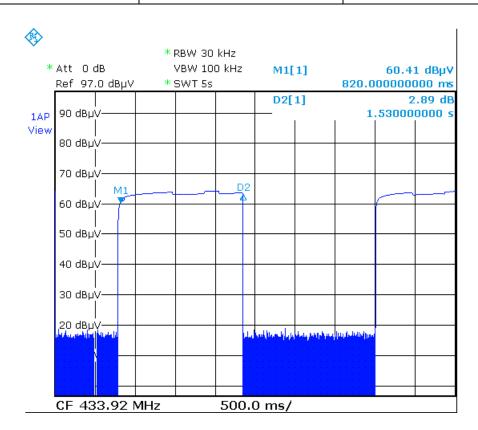
The EUT was operated in Normal Link mode.

Activation EUT's release time and measurement.

4.3.5 TEST RESULT

Temperature:23°CHumidity:61%RHSpectrum Detector:PKTested by:Richard LinTest Result:PASSTested Date:May. 29, 2013

Total release time(s)	Limit of release time<(s)	Pass/Fail
1.53	5	Pass





TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 17 of 36 Date: Jun. 14, 2013

4.4 FUNDERMENTAL & SPURIOUS RADIATED EMISSION TEST 4.4.1 LIMIT

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (dBμV/m)
0.009 - 0.490	300	2400/F(KHz)
0.490 - 1.705	30	24000/F(KHz)
1.705 - 30	30	30
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
Above 960	3	54.0

NOTE:

- 1. 30 dBuV (in 30m) = 70 dBuV (in 3m).
- 2. Transmitters that require Crystal Controlled Oscillators with values below 30 MHz requires the Test Report to show "Spurious Radiated Emissions" results below 30 MHz per FCC Part 15.33(a).

FCC part15C 15.231(b) limit of fundamental and spurious emissions measurement.

FREQUENCY (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750 (NOTE 5)	125 to 375 (NOTE 7)
174-260	3750	375 (NOTE 7)
260-470	3750 to 12500 (NOTE 6)	375 to 1250
Above 470	12500	1250

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
- 3. In the emission tables above, the tighter limit applies at the band edges.
- 4. Distance refers to the distance between measuring nstrument, antenna, and the closest point of any part of the device or system.
- 5. Limit = 20log(56.81818(F) 6136.3636); F: Fundamental Frequency (MHz)
- 6. Limit = 20log(41.667 x F 7083.3333) ; F : Fundamental Frequency (MHz)
- 7. Limit = The Limit of Fundamental Frequency 20dB
- 8. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 18 of 36 Date: Jun. 14, 2013

FCC Part 15, Section15.35(b) limit of radiated emission for frequency above 1000 MHz

FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
FREQUENCY (WINZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80.0	60.0	74.0	54.0	

4.4.2 TEST EQUIPMENT

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

EQUIPMENT/	t equipment was		MODEL#/	DUE DATE OF CAL. &
	SPECIFICATIONS	MANUFACTURER		
FACILITIES			SERIAL#	CAL. CENTER
EMI TEST	9 kHz ~	ROHDE &	ESCS30 /	DEC. 16, 2013
RECEIVER	2.75 GHz	SCHWARZ	100376	ETC
EMI TEST	20 MHz ~	ROHDE &	ESVS30 /	DEC. 02, 2013
RECEIVER	1000 MHz	SCHWARZ	841977/003	ETC
SPECTRUM	9 kHz ~ 7GHz	ROHDE &	FSP7 /	APR. 12, 2014
ANALYZER	9 KHZ ~ 7GHZ	SCHWARZ	100289	ETC
LOOD ANTENNA	0 kH= 20 MH=	ETC LINDODEN	HFH2-Z3 /860	MAR. 06, 2014
LOOP ANTENNA	9 kHz ~ 30 MHz	ETS.LINDGREN	605/002(1162 1/2)	ETC
BI-LOG	30 MHz ~	0011455150	CBL6141A /	JUN. 25, 2013
ANTENNA	2 GHz	SCHAFFNER	4181	ETC
LIODAL ANITENIA	4 011 40 011	EN400	3115/	DEC. 21, 2013
HORN ANTENNA	1 GHz ~ 18 GHz	EMCO	9602-4681	ETC
OPEN AREA	3 – 10 M	ODT	A02 /	MAR. 09, 2014
TEST SITE	MEASUREMENT	SRT	SRT002	SRT
DDE AMBUELED	4 011- 00 5 011-	A OU ENT	8449B/	DEC. 18, 2013
PRE-AMPLIFIER	1 GHz ~ 26.5 GHz	AGILENT	3008A01995	ETC
ANECHOIC	3 M	ODT	A01 /	MAY. 13, 2014
CHAMBER	MEASUREMENT	SRT	SRT001	SRT
OOAYIAL OADLE	00.14	TIMEO	LMR-400 / #30M	MAY. 30, 2013
COAXIAL CABLE	30 M	TIMES	(L1TCAB014)	ETC
DE CARLE	UP TO 18 GHz	IV/EDA O	A30A30-L 142 /	DEC. 19, 2013
RF CABLE	1.5 m	JYEBAO	EQF-0035(001)	ETC
DE CADLE	UP TO 18 GHz	IVEDAO	A30A30-L 142 /	DEC. 19, 2013
RF CABLE	3.5 m	JYEBAO	EQF-0036(002)	ETC
IX TVDE OADLE	UP TO 40 GHz		SF102-46/2*11SK	MAR. 07, 2014
K-TYPE CABLE	3 m	HUBER+SUHNER	252 /MY2611/2	ETC
IX TYPE CARLE	UP TO 40 GHz, 1		SF 102-40/2*11	OCT. 24, 2013
K-TYPE CABLE	m	HUBER+SUHNER	/23934/2	ETC
FILTED	OLINE OOA	FII COII	FC-943 /	NOD
FILTER	2 LINE, 30 A	FIL.COIL	869	NCR

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

Spectrum Research & Testing Lab., Inc. No.167,Ln. 780, Shan-Tong

SRT Rd.,Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan County 320, Taiwan (R.O.C.)

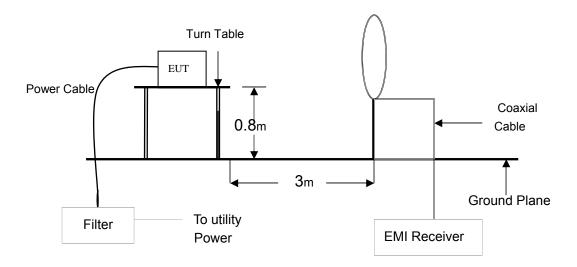
TEST REPORT

Reference No.: A13051706 Report No.:FCCA13051706 FCC ID: 2AAEVEM-898B

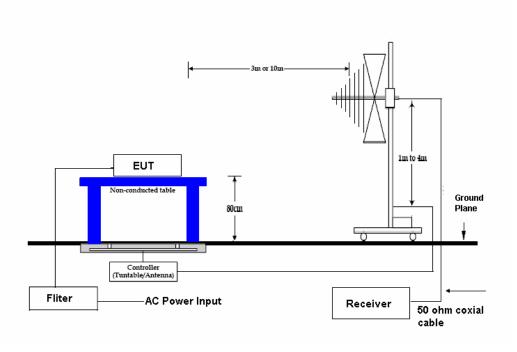
Page: 19 of 36 Date: Jun. 14, 2013

4.4.3 TEST SET-UP

9KHz ~ 30MHz



30 MHz ~ 1 GHz



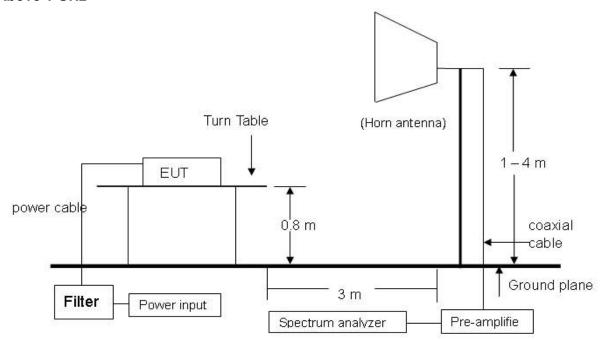


TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 20 of 36 Date: Jun. 14, 2013

Above 1 GHz



NOTE: The EUT system was put on a wooden table with 0.8m heights above a ground plane. For the actual test configuration, please refer to the photos of testing.

4.4.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR 22:2003.

The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and with 3m distance above 1GHz.

The frequency spectrum measured started from 9kHz to 30MHz and 30 MHz to 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver.

Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver.

The EUT system was operated in all typical methods by users.

The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data.

The procedure is referred on the test procedure of SRT LAB.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 21 of 36 Date: Jun. 14, 2013

4.4.5 TEST RESULT

Temperature: 22 °C Humidity: 59 %RH

Frequency Range: 9 KHz – 30 MHz Measured Distance: 3 m

Receiver Detector: AV. Tested Mode: Tx

Tested By: Richard Lin Tested Date: May. 28, 2013

Frequency	Cable	Ant. Fac.	Reading	Emission	Limit Line	Margin
(KHz)	Loss (dB)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)
6.79	0.46	20.37	6.83	27.66	70.00	-42.34
11.35	0.59	20.57	6.58	27.74	70.00	-42.26
14.46	0.66	20.72	6.24	27.62	70.00	-42.38
20.13	0.76	21.01	5.87	27.64	70.00	-42.36
24.33	0.83	21.22	5.63	27.68	70.00	-42.32
28.65	0.89	21.43	5.39	27.71	70.00	-42.29

Temperature: 22 °C Humidity: 59 %RH Frequency Range: 9 KHz – 30 MHz Measured Distance: 3 m Receiver Detector: AV. Tested Mode: Standby May. 28, 2013 Tested By: Richard Lin Tested Date:

Frequency	Cable	Ant. Fac.	Reading	Emission	Limit Line	Margin
(KHz)	Loss (dB)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)
5.50	0.42	20.32	7.81	28.55	70.00	-41.45
9.55	0.55	20.48	7.49	28.52	70.00	-41.48
16.26	0.69	20.81	6.53	28.03	70.00	-41.97
22.71	0.80	21.14	6.07	28.01	70.00	-41.99
26.94	0.87	21.35	6.58	28.79	70.00	-41.21
28.68	0.89	21.43	5.85	28.18	70.00	-41.82

SRTILAB., Inc. No.167,Ln. 780, Shan-Tong Rd.,Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan County

320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 22 of 36 Date: Jun. 14, 2013

Temperature:22 °CHumidity:59 %RHFrequency Range:9 KHz – 30 MHzMeasured Distance:3 mReceiver Detector:AV.Tested Mode:Link

Tested By: Richard Lin Tested Date: May. 28, 2013

Frequency	Cable	Ant. Fac.	Reading	Emission	Limit Line	Margin
(KHz)	Loss (dB)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)
7.66	0.49	20.41	6.58	27.48	70.00	-42.52
10.96	0.58	20.55	6.42	27.55	70.00	-42.45
13.21	0.63	20.66	5.96	27.25	70.00	-42.75
16.65	0.70	20.83	6.13	27.66	70.00	-42.34
19.41	0.75	20.97	5.58	27.30	70.00	-42.70
28.65	0.89	21.43	5.72	28.04	70.00	-41.96



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 23 of 36 Date: Jun. 14, 2013

Temperature: 22 °C Humidity: 59 %RH

Tested By: Richard Lin Tested Mode: Tx

Receiver Detector: Q.P. or AV. Modulation Type: FSK

Frequency Range: 30 M – 1 GHz Tested Date: May. 28, 2013

Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
143.03	1.80	12.84	12.52	27.16	43.5	-16.34	125	3.55
215.47	2.22	12.65	5.77	20.64	43.5	-22.86	277	3.41
600.85	4.13	19.80	6.63	30.56	46.0	-15.44	107	2.29
647.40	4.35	20.36	7.38	32.09	46.0	-13.91	69	2.07
754.13	4.80	21.93	3.79	30.52	46.0	-15.48	48	1.75
788.82	4.94	22.20	6.33	33.47	46.0	-12.53	136	1.61

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Level		Margin (dB)	AZ(°)	EL(m)
56.45	1.18	11.70	6.37	19.25	40.0	-20.75	91	1.09
143.30	1.80	12.84	9.08	23.72	43.5	-19.78	173	1.34
491.35	3.67	18.04	5.61	27.31	46.0	-18.69	38	2.44
600.82	4.13	19.80	3.91	27.84	46.0	-18.16	251	2.78
647.36	4.35	20.36	3.35	28.06	46.0	-17.94	312	2.95
935.71	5.47	24.07	3.58	33.12	46.0	-12.88	229	3.48

- 1. Measurement uncertainty is +/- 4.73dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 24 of 36 Date: Jun. 14, 2013

Temperature:22 °CHumidity:59 %RHTested By:Richard LinTested Mode:StandbyReceiver Detector:Q.P. or AV.Modulation Type:FSK

Frequency Range: 30 M – 1 GHz Tested Date: May. 28, 2013

Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
166.40	1.94	11.60	5.16	18.70	43.5	-24.80	223	3.47
600.83	4.13	19.80	7.58	31.51	46.0	-14.49	169	2.22
647.13	4.35	20.36	7.93	32.64	46.0	-13.36	108	2.07
750.49	4.78	21.90	3.55	30.23	46.0	-15.77	284	1.75
839.55	5.14	23.00	3.38	31.52	46.0	-14.48	96	1.53
935.21	5.47	24.07	3.52	33.06	46.0	-12.94	134	1.24

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
56.62	1.18	11.70	6.76	19.64	40.0	-20.36	292	1.09
216.49	2.23	12.74	9.48	24.45	46.0	-21.55	140	1.56
603.75	4.14	19.84	3.64	27.62	46.0	-18.38	88	2.73
647.17	4.35	20.36	3.52	28.23	46.0	-17.77	76	2.91
749.91	4.78	21.88	3.39	30.04	46.0	-15.96	271	3.22
935.24	5.47	24.07	3.75	33.29	46.0	-12.71	38	3.54

- 1. Measurement uncertainty is +/- 4.73dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 25 of 36 Date: Jun. 14, 2013

Temperature: 22 °C Humidity: 59 %RH

Tested By: Richard Lin Tested Mode: Link

Receiver Detector: Q.P. or AV. Modulation Type: FSK

Frequency Range: 30 M – 1 GHz Tested Date: May. 28, 2013

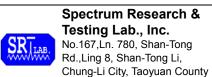
Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
223.82	2.27	13.01	8.91	24.19	46.0	-21.81	221	3.41
603.14	4.14	19.84	7.28	31.26	46.0	-14.74	308	2.25
647.58	4.35	20.36	7.34	32.05	46.0	-13.95	152	2.07
824.06	5.08	22.73	7.52	35.33	46.0	-10.67	40	1.53
893.74	5.31	23.29	3.45	32.05	46.0	-13.96	179	1.36
962.96	5.57	24.50	3.87	33.94	54.0	-20.06	62	1.12

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
70.30	1.30	8.10	12.72	22.12	40.0	-17.88	199	1.14
342.80	2.95	14.99	12.63	30.57	46.0	-15.43	243	1.98
370.13	3.08	15.72	9.48	28.28	46.0	-17.72	78	2.03
647.51	4.35	20.36	3.49	28.20	46.0	-17.80	124	2.90
824.03	5.08	22.73	3.58	31.39	46.0	-14.61	312	3.35
962.91	5.57	24.50	3.66	33.73	54.0	-20.27	267	3.56

- 1. Measurement uncertainty is +/- 4.73dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 26 of 36 Date: Jun. 14, 2013

22 °C Humidity: 59 %RH Temperature: Receiver Detector: PK. or AV. Tested Mode: Tx 1 GHz – 25 GHz Frequency Range: **FSK** Modulation Type: Tested By: Richard Lin Tested Date: May. 28, 2013

Antenna Polarization: Horizontal

Frequency Factor Fact		Ant. Factor	Reading Data (dBµV)		Emission Level (dBµV/m)		Limit (dBµV/m)		Margin (dB)		AZ (°)	EL (m)
	(ab)	(dB/m)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		` '
2431.68	-31.11	28.41	54.46	43.92	51.75	41.21	74.00	54.00	-22.25	-12.79	128	2.08
3448.40	-29.86	31.50	47.91	37.36	49.55	39.00	74.00	54.00	-24.45	-15.00	251	1.76
4144.04	-29.13	32.80	46.24	35.71	49.91	39.38	74.00	54.00	-24.09	-14.62	109	1.55
4712.91	-28.55	33.31	46.43	35.84	51.19	40.60	74.00	54.00	-22.81	-13.40	89	1.38
5203.81	-27.71	34.28	46.38	35.78	52.96	42.36	74.00	54.00	-21.04	-11.64	224	1.25
5391.77	-27.14	34.55	46.47	35.98	53.88	43.39	74.00	54.00	-20.12	-10.61	312	1.19

Antenna Polarization: Vertical

Frequency (MHz)	Correct Factor (dB)		Reading Emiss Data Lev (dBµV) (dBµ\		vel Limit		-	Margin (dB)		AZ (°)	EL (m)	
, ,	(ub)	(ub/III)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2431.64	-31.11	28.41	54.69	44.23	51.98	41.52	74.00	54.00	-22.02	-12.48	130	1.42
3038.75	-30.62	30.68	46.58	36.05	46.64	36.11	74.00	54.00	-27.36	-17.89	216	1.63
3762.15	-29.52	32.23	45.83	35.26	48.54	37.97	74.00	54.00	-25.46	-16.03	157	1.87
4633.10	-28.61	33.12	47.16	36.64	51.67	41.15	74.00	54.00	-22.33	-12.85	264	2.08
5334.27	-27.31	34.47	45.97	35.48	53.13	42.64	74.00	54.00	-20.87	-11.36	305	2.31
5795.01	-27.45	34.64	46.73	36.33	53.92	43.52	74.00	54.00	-20.08	-10.48	289	2.44

- 1. Measurement uncertainty is +/- 3.92dB.
- 2. "*": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
- 4. The field strength of other emission frequencies were very low against the limit.
- 5. (F):The field stregth of fundamental frequency.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

May. 28, 2013

Page: 27 of 36 Date: Jun. 14, 2013

Temperature:22 °CHumidity:59 %RHReceiver Detector:PK. or AV.Tested Mode:StandbyFrequency Range:1 GHz – 25 GHzModulation Type:FSK

Tested Date:

Richard Lin

Antenna Polarization: Horizontal

Tested By:

Frequency (MHz)	ractor ractor		Data L		Le	Emission Level (dBµV/m)		Limit (dBµV/m)		Margin (dB)		EL (m)
	(dB) (dB)	(dB/m)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.	(°)	` '
1921.45	-31.75	26.92	57.84	47.34	53.01	42.51	74.00	54.00	-20.99	-11.49	239	2.23
3649.57	-29.62	31.96	46.52	35.98	48.85	38.31	74.00	54.00	-25.15	-15.69	210	2.70
4013.07	-29.28	32.80	46.03	35.52	49.55	39.04	74.00	54.00	-24.45	-14.96	306	1.65
4442.83	-28.79	32.80	46.54	35.96	50.55	39.97	74.00	54.00	-23.45	-14.03	105	1.43
5334.26	-27.31	34.47	46.39	35.86	53.55	43.02	74.00	54.00	-20.45	-10.98	73	1.22
5749.19	-27.35	34.65	46.11	35.67	53.41	42.97	74.00	54.00	-20.59	-11.03	91	1.09

Antenna Polarization: Vertical

Frequency (MHz) Correct Factor (dB)	Factor Factor		Reading Data (dBµV)		Emission Level (dBµV/m)		Limit (dBµV/m)		Margin (dB)		AZ (°)	EL (m)
	(dB/m)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		, ,	
1921.49	-31.75	26.92	59.13	48.55	54.30	43.72	74.00	54.00	-19.70	-10.28	250	1.27
2433.68	-31.11	28.41	53.01	42.56	50.31	39.86	74.00	54.00	-23.69	-14.14	271	1.45
3728.16	-29.55	32.15	46.55	36.03	49.15	38.63	74.00	54.00	-24.85	-15.37	298	1.83
4052.38	-29.24	32.80	46.62	36.19	50.18	39.75	74.00	54.00	-23.82	-14.25	334	1.96
4623.86	-28.62	33.10	46.27	35.78	50.74	40.25	74.00	54.00	-23.26	-13.75	96	2.07
5319.23	-27.36	34.45	46.49	35.96	53.58	43.05	74.00	54.00	-20.42	-10.95	192	2.34

- 1. Measurement uncertainty is +/- 3.92dB.
- 2. "*": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
- 4. The field strength of other emission frequencies were very low against the limit.
- 5. (F):The field stregth of fundamental frequency.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 28 of 36 Date: Jun. 14, 2013

22 °C Humidity: 59 %RH Temperature: Receiver Detector: PK. or AV. Tested Mode: Link 1 GHz – 25 GHz Frequency Range: **FSK** Modulation Type: Tested By: Richard Lin Tested Date: May. 28, 2013

Antenna Polarization: Horizontal

Frequency (MHz) Correct Factor (dB)	Factor Factor		Data Le		Le					rgin B)	AZ (°)	EL (m)
	(dB/m)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.	, ,	, ,	
1233.21	-33.34	24.97	52.82	40.36	44.45	31.99	74.00	54.00	-29.55	-22.01	140	2.44
1917.84	-31.76	26.90	58.72	46.28	53.87	41.43	74.00	54.00	-20.13	-12.57	239	2.21
2894.04	-30.76	30.18	46.58	35.97	45.99	35.38	74.00	54.00	-28.01	-18.62	268	1.95
3573.15	-29.69	31.78	46.54	35.92	48.62	38.00	74.00	54.00	-25.38	-16.00	115	1.70
4197.72	-29.07	32.80	46.17	35.64	49.90	39.37	74.00	54.00	-24.10	-14.63	309	1.53
5329.13	-27.33	34.46	46.11	35.56	53.24	42.69	74.00	54.00	-20.76	-11.31	43	1.21

Antenna Polarization: Vertical

Frequency (MHz)	Factor Factor		Da	Data Le		ΔνΔΙ				rgin B)	AZ (°)	EL (m)
	(dB)	(dB/m)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		, ,
1924.03	-31.75	26.93	54.97	42.78	50.15	37.96	74.00	54.00	-23.85	-16.04	95	1.29
2435.90	-31.11	28.42	54.33	42.13	51.64	39.44	74.00	54.00	-22.36	-14.56	108	1.46
3573.52	-29.69	31.78	46.18	35.67	48.26	37.75	74.00	54.00	-25.74	-16.25	41	1.78
3951.63	-29.35	32.68	45.76	35.23	49.10	38.57	74.00	54.00	-24.90	-15.43	207	1.86
4778.16	-28.50	33.47	45.86	35.46	50.83	40.43	74.00	54.00	-23.17	-13.57	193	2.12
5612.32	-27.05	34.68	45.68	35.19	53.30	42.81	74.00	54.00	-20.70	-11.19	252	2.39

- 1. Measurement uncertainty is +/- 3.92dB.
- 2. "*": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
- 4. The field strength of other emission frequencies were very low against the limit.
- 5. (F): The field stregth of fundamental frequency.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 29 of 36 Date: Jun. 14, 2013

Temperature: 22 °C Humidity: 59 %RH

Tested By: Richard Lin Tested Mode: Tx (Fundamental)

Receiver Detector: Q.P. or AV. Modulation Type: FSK

Frequency Range: 30 M – 1 GHz Tested Date: May. 28, 2013

Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
433.92	3.39	17.03	42.17	62.58	80.83	-18.25	173	3.02
867.84	5.23	23.23	4.65	33.12	46.00	-12.89	138	1.68

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
433.92	3.39	17.03	41.25	61.66	80.83	-19.17	89	2.41
867.84	5.23	23.23	3.48	31.95	46.00	-14.06	251	2.83

- 1. Measurement uncertainty is +/- 4.73dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 30 of 36 Date: Jun. 14, 2013

Temperature: 22 °C Humidity: 59 %RH

Receiver Detector: PK. or AV. Tested Mode: Tx (Fundamental)

Frequency Range: 1 GHz – 25 GHz Modulation Type: FSK

Tested By: Richard Lin Tested Date: May. 28, 2013

Antenna Polarization: Horizontal

Frequency (MHz)	Correct Factor (dB)		Data		Le	Emission Level (dBµV/m)		Limit (dBµV/m)		Margin (dB)		EL (m)
	(ub)	(ub/III)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1301.76	-33.10	25.08	45.78	35.21	37.76	27.19	74.00	54.00	-36.24	-26.81	142	2.41
1735.68	-32.03	26.25	45.13	34.62	39.34	28.83	74.00	54.00	-34.66	-25.17	315	2.27
2169.60	-31.43	27.67	45.37	34.76	41.62	31.01	74.00	54.00	-32.38	-22.99	227	2.19
2603.52	-30.96	29.01	45.76	35.28	43.81	33.33	74.00	54.00	-30.19	-20.67	108	2.02

Antenna Polarization: Vertical

Frequency (MHz)	Correct Ant. Factor		Reading Emiss Data Lev (dBµV) (dBµV)		vel	vel (dRuV/m)		Margin (dB)		AZ (°)	EL (m)	
	(dB) (dB/m)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.			
1301.76	-33.10	25.08	45.09	34.57	37.07	26.55	74.00	54.00	-36.93	-27.45	179	1.16
1735.68	-32.03	26.25	44.91	34.36	39.12	28.57	74.00	54.00	-34.88	-25.43	201	1.29
2169.60	-31.43	27.67	45.75	35.19	42.00	31.44	74.00	54.00	-32.00	-22.56	97	1.37
2603.52	-30.96	29.01	45.15	34.66	43.20	32.71	74.00	54.00	-30.80	-21.29	154	1.51

- 1. Measurement uncertainty is +/- 3.92dB.
- 2. "*": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
- 4. The field strength of other emission frequencies were very low against the limit.
- 5. (F):The field stregth of fundamental frequency.

Spectrum Research & Testing Lab., Inc. No.167,Ln. 780, Shan-Tong Rd.,Ling 8, Shan-Tong Li.

No.167,Ln. 780, Shan-Tong Rd.,Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan County 320, Taiwan (R.O.C.)

TEST REPORT

Reference No.: A13051706 Report No.:FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 31 of 36 Date: Jun. 14, 2013

5. PHOTOS OF TESTING

- Conducted Emission Test (TX & Standby)





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Chung-Li City, Taoyuan County
320, Taiwan (R.O.C.)

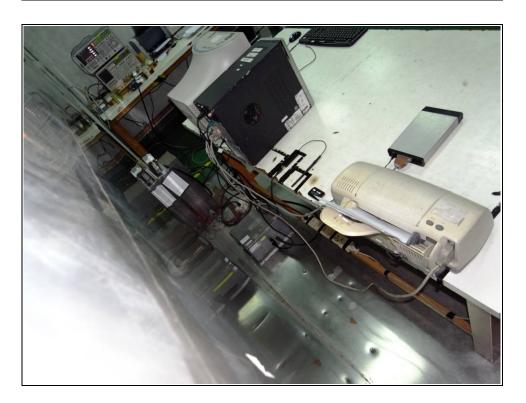
TEST REPORT

Reference No.: A13051706 Report No.:FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 32 of 36 Date: Jun. 14, 2013

- Conducted Emission Test (Link)





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TEST REPORT

Reference No.: A13051706 Report No.:FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 33 of 36 Date: Jun. 14, 2013

- Radiated test (below 30M, TX & Standby)





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TEST REPORT

Reference No.: A13051706 Report No.:FCCA13051706

FCC ID: 2AAEVEM-898B

Page: 34 of 36 Date: Jun. 14, 2013

- Radiated test (below 1G, TX & Standby)





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TEST REPORT

Reference No.: A13051706 Report No.:FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 35 of 36 Date: Jun. 14, 2013

- Radiated test (above 1G, TX & Standby)







TEST REPORT

Reference No.: A13051706 Report No.: FCCA13051706 FCC ID: 2AAEVEM-898B

Page: 36 of 36 Date: Jun. 14, 2013

6. TERMS OF ABBREVIATION

AV.	Average detection	
AZ(°)	Turn table azimuth	
Correct.	Correction	
EL(m)	Antenna height (meter)	
EUT	Equipment Under Test	
Horiz.	Horizontal direction	
LISN	Line Impedance Stabilization Network	
NSA	Normalized Site Attenuation	
Q.P.	Quasi-peak detection	
SRT Lab	Spectrum Research & Testing Laboratory, Inc.	
Vert.	Vertical direction	