

Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan	TEST REPORT	Reference No.: A11053105 Report No.: FCCA11053105 FCC ID : FSUGMZJM Page: 1 of 34 Date: Jul. 07, 2011
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Product Name: EasyPen M406W
 Model No.: GT-100003/T
 Applicant: KYE SYSTEMS CORP.
 No. 492, Sec. 5, Chung Hsin Rd., San Chung,
 New Taipei City, 24160, Taiwan, R.O.C.
 Date of Receipt: May 31, 2011
 Finished date of Test Jul. 1, 2011
 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 : Nina Auth. , Date: 7/7/2011
 (Jeff Lo)

Approved By : JH , Date: 7/7/2011
 (Johnson Ho, Director)





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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.
- DC power source, 1.5Vdc of AA3 battery (TX) and AC power source, 120 VAC/60 Hz for PC (RX, from USB port), was used during the test.

1.3 EUT MODIFICATION

- No modification in SRT Lab.



TEST REPORT

2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	EasyPen M406W
MODEL NO.	GT-100003/T
POWER SUPPLY	DC power source of TX from AAA*3 battery : 1.5Vdc AC power source of PC for RX applied USB port : AC 120V/60Hz
CABLE	NA
FREQUENCY BAND	2.400GHz ~ 2.4835GHz
CARRIER FREQUENCY	2.402GHz ~ 2.480GHz
CHANNEL SPACING	NA
NUMBER OF CHANNEL	5
RATED RF OUTPUT POWER	84.4dBuV/m
MODULATION TYPE	GFSK
MODE OF OPERATION	Duplex
ANTENNA TYPE	PCB Printed
ANTENNA GAIN	-3 dBi
OPERATING TEMPERATURE RANGE	5~ 40°C

NOTE :

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

2.2 Used Channel and Frequency Table

Channel	Frequency
1	2402 MHz
2	2420 MHz
3	2436 MHz
4	2452 MHz
5	2480 MHz



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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.

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2.5 DESCRIPTION OF TEST MODE

Mode				Pre Test	Final Test
1	TX	TX	2402 MHz	V	V
2			2442 MHz	V	V
3			2480 MHz	V	V
4		Standby	NA	V	V
5	RX	Link	2402 MHz	V	V
6			2442 MHz	V	V
7			2480 MHz	V	V

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 shielded data cable
4	Mouse	WinTEK	WSS30	DoC	1.5m shielded 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.

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



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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.



4. TECHNICAL CHARACTERISTICS TEST

4.1 RADIATED EMISSION TEST

4.1.1 LIMIT

FCC Part15, Subpart C Section 15.209(15.249(d)) limit of radiated emission for frequency below 1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (dB μ V/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

FCC Part15, Subpart C Section 15.249(a) limit of radiated emission (Average).

FREQUENCY (MHz)	FIELD STRENGTH OF FUNDAMENTAL (millivolts/meter)	FIELD STRENGTH OF HARMONICS (millivolts/meter)
902 - 928	50	500
2400 - 2483.5	50	500
5725 - 5875	50	500
24000 - 24250	250	2500

NOTE :

1. In the emission tables above , the tighter limit applies at the band edges.
2. Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.
3. 50mV = 94dB μ V

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

FREQUENCY (MHz)	Class A (dB μ V/m) (at 3m)		Class B (dB μ V/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

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4.1.2 TEST EQUIPMENT

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

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	20 MHz TO 1000 MHz	ROHDE & SCHWARZ	ESVS30 / 841977/003	DEC. 2011 ETC
BI-LOG ANTENNA	30 MHz TO 2 GHz	SCHAFFNER	CBL6141A / 4181	MAY 2012 ETC
OATS	3 – 10 M MEASUREMENT	SRT	SRT-1	NOV. 2011 SRT
COAXIAL CABLE	30M	TIMES	LMR-400 / #30M	MAY 2012 ETC
FILTER	2 LINE, 30A	FIL.COIL	FC-943 / 869	NCR
SPECTRUM ANALYZER	9K-40GHz	R&S	FSP40/ 100093	DEC. 2011 ETC
PRE-AMPLIFIER	1 GHz TO 26.5 GHz	HP	8449B/ 3008A01995	JAN. 2012 ETC
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/ 6881	NOV. 2011 ETC
HORN ANTENNA	18 GHz TO 40 GHz	EMCO	3116/ 00032255	FEB. 2012 ETC
K-TYPE CABLE	15M	HUBER SUHNER	SF 102-40/2*11 /23932/2	MAY 2012 ETC
K-TYPE CABLE	1M	HUBER SUHNER	SF 102-40/2*11 /23934/2	NOV. 2011 ETC

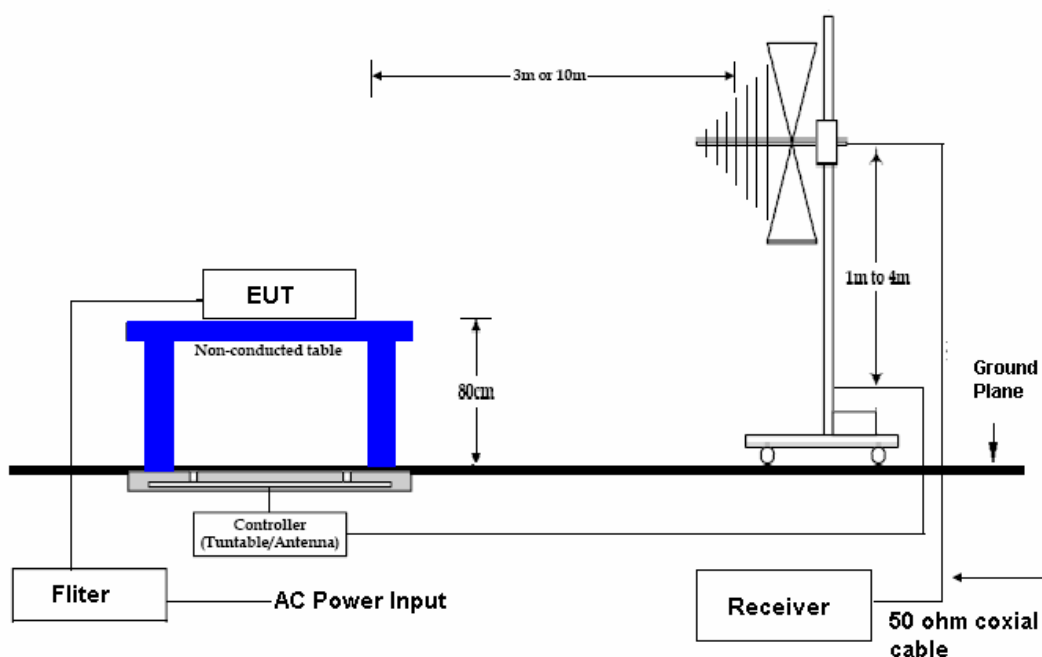
NOTE:

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

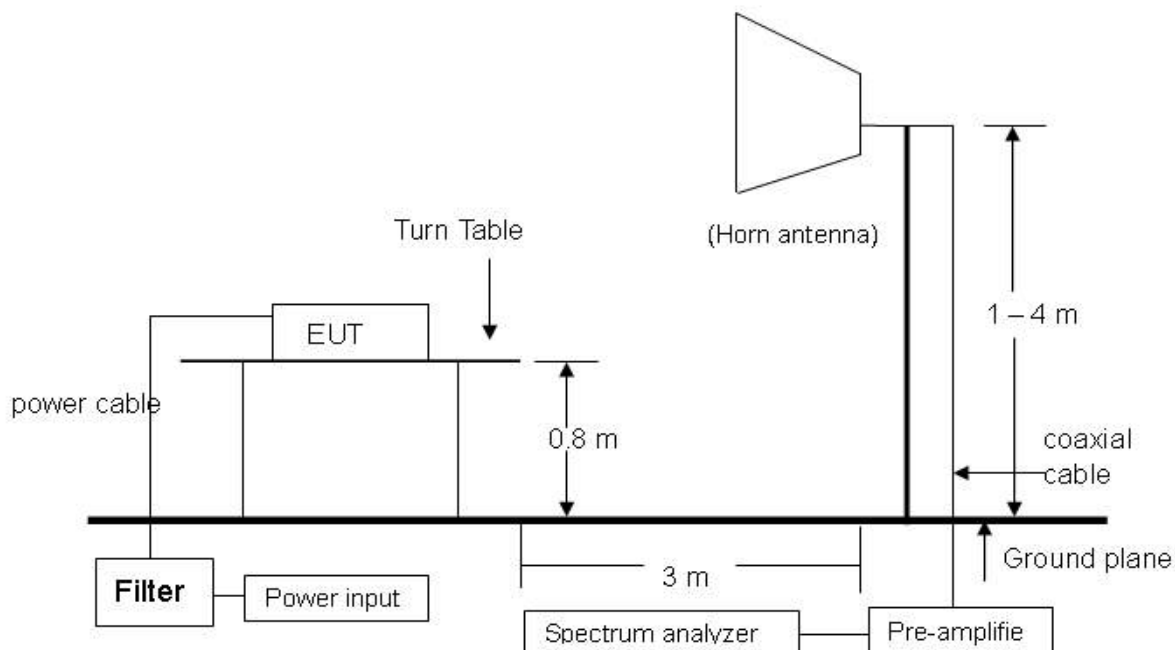


4.1.3 TEST SET-UP

30MHz ~ 1GHz



Above 1GHz



NOTE :

1. 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.



4.1.4 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 30 MHz. Under 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

4.1.5 TEST RESULT

Temperature:	24 °C	Humidity:	55 %RH
Tested By:	Jeff Lo	Tested Mode:	TX1 (2402 MHz)
Receiver Detector:	Q.P. or AV.	Modulation Type:	GFSK
Frequency Range:	30M – 1GHz	Tested Date:	Jun. 27, 2011

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)
70.33	1.20	8.00	12.1	21.3	40.0	-18.7	333	3.88
77.72	1.27	8.14	18.4	27.8	40.0	-12.2	340	3.85
104.33	1.44	10.28	17.0	28.7	43.5	-14.8	336	3.77
143.27	1.70	12.67	21.9	36.3	43.5	-7.2	339	3.65
204.88	1.94	11.96	12.0	25.9	43.5	-17.6	342	3.46
526.48	3.30	18.31	7.8	29.4	46.0	-16.6	170	2.46

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)
46.20	1.06	15.94	13.4	30.4	40.0	-9.6	32	1.05
75.25	1.25	8.10	15.5	24.9	40.0	-15.2	44	1.14
143.29	1.70	12.67	20.6	35.0	43.5	-8.5	48	1.35
526.45	3.30	18.31	9.4	31.0	46.0	-15.0	172	2.54
897.52	4.49	23.09	2.2	29.8	46.0	-16.2	311	3.68
963.48	4.63	24.30	9.3	38.2	54.0	-15.8	40	3.89

NOTE :

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



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Tested By:	Jeff Lo	Tested Mode:	Tx2 (2442 MHz)
Receiver Detector:	Q.P. or AV.	Modulation Type:	GFSK
Frequency Range:	30M – 1GHz	Tested Date:	Jun. 27, 2011

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)
46.27	1.06	15.94	11.8	28.8	40.0	-11.2	307	3.95
94.45	1.40	9.14	19.4	29.9	43.5	-13.6	316	3.80
143.51	1.70	12.67	15.2	29.6	43.5	-13.9	317	3.65
526.44	3.30	18.31	17.8	39.4	46.0	-6.6	161	2.46
880.13	4.42	23.02	6.5	33.9	46.0	-12.1	101	1.37
950.71	4.60	24.20	7.0	35.8	46.0	-10.2	108	1.15

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)
46.30	1.06	15.94	16.6	33.6	40.0	-6.4	22	1.05
94.40	1.40	9.14	17.4	27.9	43.5	-15.6	24	1.20
143.55	1.70	12.67	18.7	33.1	43.5	-10.4	30	1.35
526.37	3.30	18.31	6.8	28.4	46.0	-17.6	155	2.54
880.39	4.42	23.02	2.2	29.6	46.0	-16.4	39	3.63
950.44	4.60	24.20	2.3	31.1	46.0	-14.9	138	3.85

NOTE :

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



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Tested By:	Jeff Lo	Tested Mode:	Tx3 (2480 MHz)
Receiver Detector:	Q.P. or AV.	Modulation Type:	GFSK
Frequency Range:	30M – 1GHz	Tested Date:	Jun. 27, 2011

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)
46.10	1.06	15.94	15.6	32.6	40.0	-7.4	311	3.95
70.51	1.20	8.00	16.3	25.5	40.0	-14.5	314	3.87
143.38	1.70	12.67	19.3	33.7	43.5	-9.8	317	3.65
179.61	1.80	10.55	18.1	30.5	43.5	-13.1	322	3.54
342.15	2.57	14.91	18.6	36.1	46.0	-9.9	245	3.03
526.33	3.30	18.31	12.9	34.5	46.0	-11.5	156	2.46

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)
46.13	1.06	15.94	18.5	35.5	40.0	-4.5	24	1.05
94.45	1.40	9.14	18.7	29.2	43.5	-14.3	25	1.20
143.35	1.70	12.67	16.1	30.5	43.5	-13.0	27	1.35
400.23	2.80	16.30	5.7	24.8	46.0	-21.2	144	2.15
526.36	3.30	18.31	7.1	28.7	46.0	-17.3	155	2.54
880.37	4.42	23.02	2.2	29.6	46.0	-16.4	39	3.63

NOTE :

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



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Tested By:	Jeff Lo	Tested Mode:	Standby
Receiver Detector:	Q.P. or AV.	Modulation Type:	GFSK
Frequency Range:	30M – 1GHz	Tested Date:	Jun. 27, 2011

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)
58.31	1.18	10.38	15.0	26.6	40.0	-13.4	329	3.91
196.47	1.90	11.44	10.8	24.1	43.5	-19.4	339	3.49
216.09	2.00	12.80	13.3	28.1	46.0	-17.9	343	3.42
526.33	3.30	18.31	14.8	36.4	46.0	-9.6	173	2.46
623.31	3.59	19.92	5.2	28.7	46.0	-17.3	180	2.17
832.05	4.23	22.61	2.2	29.0	46.0	-17.0	106	1.52

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)
46.30	1.06	15.94	8.9	25.9	40.0	-14.1	32	1.05
97.15	1.40	9.47	15.9	26.8	43.5	-16.7	41	1.21
526.35	3.30	18.31	9.4	31.0	46.0	-15.0	171	2.54
832.08	4.23	22.61	2.2	29.0	46.0	-17.0	39	3.48
900.00	4.50	23.10	2.4	30.0	46.0	-16.0	318	3.69
965.24	4.63	24.32	9.0	38.0	54.0	-16.1	144	3.89

NOTE :

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



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Tested By:	Jeff Lo	Tested Mode:	Rx1 (2402MHz)
Receiver Detector:	Q.P. or AV.	Modulation Type:	GFSK
Frequency Range:	30M – 1GHz	Tested Date:	Jun. 27, 2011

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)
46.20	1.06	15.94	11.8	28.8	40.0	-11.2	307	3.95
70.51	1.20	8.00	15.9	25.1	40.0	-14.9	313	3.87
97.12	1.40	9.47	21.4	32.3	43.5	-11.2	318	3.79
143.27	1.70	12.67	22.5	36.9	43.5	-6.6	324	3.65
526.38	3.30	18.31	13.9	35.5	46.0	-10.5	157	2.46
623.61	3.59	19.92	4.9	28.4	46.0	-17.6	165	2.16

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)
46.23	1.06	15.94	17.2	34.2	40.0	-5.8	122	1.05
77.71	1.27	8.14	17.4	26.8	40.0	-13.2	251	1.15
143.25	1.70	12.67	14.5	28.9	43.5	-14.6	127	1.35
199.87	1.90	11.71	8.5	22.1	43.5	-21.4	134	1.53
834.38	4.24	22.64	2.2	29.1	46.0	-16.9	138	3.49
879.41	4.42	23.02	2.4	29.8	46.0	-16.2	39	3.63

NOTE :

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



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Tested By:	Jeff Lo	Tested Mode:	Rx2 (2442 MHz)
Receiver Detector:	Q.P. or AV.	Modulation Type:	GFSK
Frequency Range:	30M – 1GHz	Tested Date:	Jun. 27, 2011

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)
46.28	1.06	15.94	8.6	25.6	40.0	-14.4	38	3.95
97.11	1.40	9.47	21.4	32.3	43.5	-11.2	137	3.79
143.18	1.70	12.67	22.8	37.2	43.5	-6.3	325	3.65
191.44	1.90	10.99	17.5	30.4	43.5	-13.1	118	3.50
526.38	3.30	18.31	14.2	35.8	46.0	-10.2	157	2.46
897.31	4.49	23.09	2.2	29.8	46.0	-16.2	18	1.32

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)
81.81	1.31	8.25	16.8	26.4	40.0	-13.6	26	1.16
77.49	1.27	8.14	15.8	25.2	40.0	-14.8	24	1.15
119.38	1.50	11.81	15.0	28.3	43.5	-15.2	288	1.28
143.22	1.70	12.67	21.2	35.6	43.5	-7.9	33	1.35
153.06	1.73	12.42	18.4	32.6	43.5	-11.0	31	1.38
526.35	3.30	18.31	7.8	29.4	46.0	-16.6	155	2.54

NOTE :

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



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Temperature:	24 °C	Humidity:	55 %RH
Tested By:	Jeff Lo	Tested Mode:	Rx3 (2480 MHz)
Receiver Detector:	Q.P. or AV.	Modulation Type:	GFSK
Frequency Range:	30M – 1GHz	Tested Date:	Jun. 27, 2011

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)
46.14	1.06	15.94	12.4	29.4	40.0	-10.6	308	3.95
102.38	1.42	10.04	20.7	32.2	43.5	-11.3	318	3.78
143.22	1.70	12.67	22.5	36.9	43.5	-6.6	324	3.65
153.50	1.73	12.42	22.8	37.0	43.5	-6.6	325	3.62
470.61	3.08	17.58	7.7	28.4	46.0	-17.6	250	2.64
526.71	3.30	18.31	13.2	34.8	46.0	-11.2	157	2.46

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)
46.17	1.06	15.94	16.9	33.9	40.0	-6.1	22	1.05
77.84	1.27	8.14	12.9	22.3	40.0	-17.7	21	1.15
109.33	1.49	10.88	16.8	29.2	43.5	-14.3	24	1.25
143.27	1.70	12.67	18.3	32.7	43.5	-10.8	30	1.35
526.74	3.30	18.31	8.7	30.3	46.0	-15.7	155	2.54
897.37	4.49	23.09	2.2	29.8	46.0	-16.2	39	3.68

NOTE :

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



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	TX1 (2402 MHz)
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1473.50	-34.62	25.34	49.0	38.7	39.7	29.4	74.0	54.0	-34.3	-24.6	24	2.23
1821.38	-34.19	26.56	48.5	37.0	40.9	29.4	74.0	54.0	-33.1	-24.6	133	2.18
1842.61	-34.16	26.63	49.8	39.1	42.2	31.6	74.0	54.0	-31.8	-22.4	109	2.05
1997.45	-33.98	27.19	46.1	36.8	39.3	30.0	74.0	54.0	-34.7	-24.0	258	2.16
2136.47	-33.95	27.50	45.2	35.1	38.7	28.7	74.0	54.0	-35.3	-25.3	161	2.04
2463.07	-33.87	28.22	48.3	38.4	42.7	32.7	74.0	54.0	-31.3	-21.3	233	2.13

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1082.50	-35.53	24.40	52.1	44.3	41.0	33.2	74.0	54.0	-33.0	-20.8	101	1.12
1098.51	-35.49	24.44	51.6	40.4	40.6	29.3	74.0	54.0	-33.4	-24.7	5	1.23
1745.44	-34.28	26.28	46.7	35.5	38.7	27.5	74.0	54.0	-35.3	-26.5	14	1.32
1842.63	-34.16	26.63	50.7	39.5	43.2	32.0	74.0	54.0	-30.8	-22.0	38	1.31
1997.43	-33.98	27.19	44.8	33.2	38.0	26.4	74.0	54.0	-36.0	-27.6	79	1.28
2450.25	-33.87	28.19	46.0	35.9	40.3	30.2	74.0	54.0	-33.7	-23.8	10	1.35

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "★": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	Tx1 (Fundamental)
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2402.00	-33.88	28.08	90.2	87.6	84.4	81.8	114	94.0	-29.6	-12.2	19	1.52
4804.00	-32.84	33.05	38.7	27.7	38.9	27.9	74.0	54.0	-35.1	-26.1	112	1.41
7206.00	-32.69	35.74	38.9	26.3	42.0	29.3	74.0	54.0	-32.0	-24.7	155	1.37
9608.00	-33.18	38.06	42.0	32.2	46.9	37.1	74.0	54.0	-27.1	-16.9	34	1.43
12010.00	-32.40	39.59	39.4	29.1	46.6	36.3	74.0	54.0	-27.4	-17.7	81	1.56
14412.00	-30.92	42.41	51.3	37.4	62.8	48.9	74.0	54.0	-11.2	-5.1	99	1.61

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2402.00	-33.88	28.08	88.2	76.4	82.4	70.6	114	94.0	-31.6	-23.4	74	1.44
4804.00	-32.84	33.05	38.2	28.8	38.4	29.0	74.0	54.0	-35.6	-25.0	125	1.29
7206.00	-32.69	35.74	39.0	29.1	42.1	32.1	74.0	54.0	-31.9	-21.9	333	1.35
9608.00	-33.18	38.06	41.6	30.4	46.4	35.3	74.0	54.0	-27.6	-18.7	228	1.39
12010.00	-32.40	39.59	40.3	29.9	47.4	37.1	74.0	54.0	-26.6	-16.9	101	1.48
14412.00	-30.92	42.41	52.0	36.6	63.5	48.1	74.0	54.0	-10.5	-5.9	87	1.53

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "F": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



**Spectrum Research &
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TEST REPORT

Reference No.: A11053105
Report No.: FCCA11053105
FCC ID : FSUGMZJM
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Date: Jul. 07, 2011

Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	Tx2 (2442 MHz)
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1838.33	-34.17	26.62	50.1	39.8	42.6	32.2	74.0	54.0	-31.4	-21.8	31	2.21
1944.62	-34.04	27.00	46.5	36.0	39.5	29.0	74.0	54.0	-34.5	-25.0	147	2.17
1997.88	-33.98	27.19	45.5	35.4	38.7	28.6	74.0	54.0	-35.3	-25.4	129	2.03
2119.50	-33.95	27.46	45.4	34.4	38.9	27.9	74.0	54.0	-35.1	-26.1	88	2.11
2301.55	-33.91	27.86	44.5	33.8	38.4	27.8	74.0	54.0	-35.6	-26.2	357	2.03
2459.47	-33.87	28.21	50.1	38.7	44.4	33.0	74.0	54.0	-29.6	-21.0	133	2.18

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dB μ V)		Emission Level (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1098.64	-35.49	24.44	51.9	41.4	40.8	30.3	74.0	54.0	-33.2	-23.7	266	1.13
1825.55	-34.18	26.57	49.0	38.7	41.4	31.1	74.0	54.0	-32.6	-22.9	136	1.33
1842.71	-34.16	26.63	50.2	39.6	42.7	32.1	74.0	54.0	-31.3	-21.9	114	1.34
2153.12	-33.94	27.54	45.6	34.8	39.1	28.4	74.0	54.0	-34.9	-25.6	55	1.35
2306.50	-33.91	27.87	45.5	34.4	39.5	28.4	74.0	54.0	-34.5	-25.6	89	1.27
2467.29	-33.87	28.23	50.3	40.4	44.7	34.8	74.0	54.0	-29.3	-19.2	109	1.39

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "★": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	Tx2 (Fundamental)
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2442.00	-33.87	28.17	89.9	78.8	84.1	73.1	114	94.0	-29.9	-20.9	154	1.52
4882.00	-32.82	33.19	37.7	27.1	38.1	27.5	74.0	54.0	-35.9	-26.5	226	1.43
7326.00	-32.72	36.05	37.9	27.4	41.2	30.7	74.0	54.0	-32.8	-23.3	20	1.39
9768.00	-33.19	38.16	42.1	29.4	47.0	34.4	74.0	54.0	-27.0	-19.6	311	1.42
12210.00	-32.18	39.47	39.3	28.3	46.6	35.6	74.0	54.0	-27.4	-18.4	108	1.41
14652.00	-31.07	41.83	49.6	38.7	60.3	49.5	74.0	54.0	-13.7	-4.5	197	1.56

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2442.00	-33.87	28.17	87.8	77.4	82.1	71.7	114	94.0	-31.9	-22.3	151	1.42
4882.00	-32.82	33.19	38.1	27.8	38.4	28.2	74.0	54.0	-35.6	-25.8	21	1.28
7326.00	-32.72	36.05	38.4	26.1	41.7	29.4	74.0	54.0	-32.3	-24.6	324	1.34
9768.00	-33.19	38.16	41.6	32.2	46.6	37.2	74.0	54.0	-27.4	-16.8	231	1.38
12210.00	-32.18	39.47	38.7	27.7	46.0	35.0	74.0	54.0	-28.0	-19.0	221	1.44
14652.00	-31.07	41.83	48.8	38.6	59.6	49.4	74.0	54.0	-14.4	-4.6	188	1.55

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "F": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	Tx3 (2480 MHz)
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1723.55	-34.30	26.20	46.7	36.1	38.6	28.0	74.0	54.0	-35.4	-26.0	181	2.22
1842.57	-34.16	26.63	50.2	39.8	42.6	32.3	74.0	54.0	-31.4	-21.7	74	2.18
2114.61	-33.95	27.45	45.6	34.4	39.1	27.9	74.0	54.0	-34.9	-26.1	291	2.04
2238.50	-33.92	27.72	44.6	33.7	38.4	27.5	74.0	54.0	-35.6	-26.5	188	2.12
2361.07	-33.89	27.99	44.0	32.1	38.1	26.2	74.0	54.0	-35.9	-27.8	355	2.05
2554.62	-33.85	28.49	45.4	33.8	40.1	28.4	74.0	54.0	-33.9	-25.6	331	2.16

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1821.44	-34.19	26.56	49.0	39.9	41.4	32.3	74.0	54.0	-32.6	-21.7	109	1.14
1838.27	-34.17	26.62	50.4	39.8	42.8	32.2	74.0	54.0	-31.2	-21.8	177	1.31
1906.81	-34.09	26.86	47.9	36.4	40.7	29.2	74.0	54.0	-33.3	-24.8	258	1.33
2157.13	-33.94	27.55	46.2	35.2	39.8	28.8	74.0	54.0	-34.2	-25.2	159	1.37
2458.00	-33.87	28.21	49.8	37.4	44.2	31.7	74.0	54.0	-29.8	-22.3	329	1.25
2556.73	-33.85	28.50	45.5	33.6	40.2	28.3	74.0	54.0	-33.8	-25.7	87	1.34

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "★": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



**Spectrum Research &
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TEST REPORT

Reference No.: A11053105
Report No.: FCCA11053105
FCC ID : FSUGMZJM
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Date: Jul. 07, 2011

Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	Tx3 (Fundamental)
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2480.00	-33.86	28.26	87.2	77.6	81.6	72.0	114	94.0	-32.4	-22.0	156	1.54
4960.00	-32.80	33.33	41.2	30.6	41.7	31.1	74.0	54.0	-32.3	-22.9	218	1.41
7440.00	-32.75	36.34	39.7	38.4	43.3	42.0	74.0	54.0	-30.7	-12.0	13	1.37
9920.00	-33.20	38.25	41.9	30.3	47.0	35.4	74.0	54.0	-27.0	-18.6	300	1.40
12400.00	-31.97	39.36	39.7	29.9	47.1	37.3	74.0	54.0	-26.9	-16.7	101	1.58
14800.00	-31.12	41.18	49.9	39.3	60.0	49.4	74.0	54.0	-14.0	-4.6	334	1.44

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
2480.00	-33.86	28.26	85.3	75.1	79.7	69.5	114	94.0	-34.3	-24.5	150	1.42
4960.00	-32.80	33.33	40.2	29.4	40.7	29.9	74.0	54.0	-33.3	-24.1	23	1.30
7440.00	-32.75	36.34	38.8	28.1	42.4	31.7	74.0	54.0	-31.6	-22.3	318	1.36
9920.00	-33.20	38.25	40.7	30.0	45.7	35.1	74.0	54.0	-28.3	-18.9	224	1.38
12400.00	-31.97	39.36	39.1	29.9	46.5	37.3	74.0	54.0	-27.5	-16.7	108	1.61
14800.00	-31.12	41.18	49.7	39.7	59.7	49.8	74.0	54.0	-14.3	-4.2	44	1.44

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "F": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



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TEST REPORT

Reference No.: A11053105
Report No.: FCCA11053105
FCC ID : FSUGMZJM
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Date: Jul. 07, 2011

Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	Stradby
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1834.15	-34.17	26.60	49.3	38.8	41.7	31.2	74.0	54.0	-32.3	-22.8	138	2.25
1997.38	-33.98	27.19	45.5	34.4	38.7	27.6	74.0	54.0	-35.3	-26.4	126	2.20
2127.25	-33.95	27.48	45.9	35.1	39.4	28.6	74.0	54.0	-34.6	-25.4	204	2.16
2306.44	-33.91	27.87	44.9	34.3	38.8	28.3	74.0	54.0	-35.2	-25.7	308	2.11
2463.18	-33.87	28.22	47.8	36.6	42.1	30.9	74.0	54.0	-31.9	-23.1	199	2.06
2561.61	-33.85	28.52	45.0	34.1	39.7	28.8	74.0	54.0	-34.3	-25.2	119	2.03

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1817.00	-34.19	26.54	47.6	37.1	39.9	29.4	74.0	54.0	-34.1	-24.6	27	1.25
1842.61	-34.16	26.63	48.6	36.2	41.1	28.7	74.0	54.0	-32.9	-25.3	157	1.25
1997.35	-33.98	27.19	44.6	34.4	37.8	27.6	74.0	54.0	-36.2	-26.4	91	1.30
2046.66	-33.97	27.30	46.0	36.6	39.3	29.9	74.0	54.0	-34.7	-24.1	53	1.31
2246.25	-33.92	27.74	44.8	34.8	38.6	28.6	74.0	54.0	-35.4	-25.4	155	1.37
2425.00	-33.88	28.14	44.1	33.7	38.3	28.0	74.0	54.0	-35.7	-26.0	188	1.43

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "F": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



**Spectrum Research &
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No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan

TEST REPORT

Reference No.: A11053105
Report No.: FCCA11053105
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Date: Jul. 07, 2011

Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	Rx1 (2402 MHz)
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1842.55	-34.16	26.63	49.9	38.1	42.3	30.6	74.0	54.0	-31.7	-23.4	38	2.28
1997.42	-33.98	27.19	46.0	35.4	39.2	28.6	74.0	54.0	-34.8	-25.4	26	2.21
2165.25	-33.94	27.56	45.7	34.7	39.4	28.3	74.0	54.0	-34.6	-25.7	188	2.20
2314.25	-33.90	27.89	45.9	34.2	39.9	28.2	74.0	54.0	-34.1	-25.8	209	2.16
2459.18	-33.87	28.21	48.6	37.1	43.0	31.4	74.0	54.0	-31.0	-22.6	99	2.09
2493.71	-33.86	28.28	47.7	35.5	42.1	29.9	74.0	54.0	-31.9	-24.1	257	2.06

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1099.54	-35.49	24.44	54.2	44.3	43.2	33.2	74.0	54.0	-30.8	-20.8	177	1.28
1732.15	-34.29	26.24	46.7	36.9	38.6	28.8	74.0	54.0	-35.4	-25.2	57	1.33
1842.53	-34.16	26.63	50.0	39.8	42.5	32.3	74.0	54.0	-31.5	-21.7	93	1.34
1997.45	-33.98	27.19	45.7	35.1	38.9	28.3	74.0	54.0	-35.1	-25.7	344	1.38
2161.38	-33.94	27.55	46.2	36.8	39.9	30.4	74.0	54.0	-34.1	-23.6	147	1.41
2459.15	-33.87	28.21	49.5	39.9	43.8	34.2	74.0	54.0	-30.2	-19.8	111	1.59

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "PK": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



TEST REPORT

Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	Rx2 (2442 MHz)
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1736.44	-34.29	26.25	47.0	37.4	38.9	29.4	74.0	54.0	-35.1	-24.6	88	2.23
1842.61	-34.16	26.63	50.5	39.8	42.9	32.3	74.0	54.0	-31.1	-21.7	52	2.18
1997.48	-33.98	27.19	45.5	35.5	38.7	28.7	74.0	54.0	-35.3	-25.3	168	2.09
2093.18	-33.96	27.40	45.7	35.1	39.1	28.5	74.0	54.0	-34.9	-25.5	211	2.14
2233.44	-33.92	27.71	45.5	35.9	39.3	29.7	74.0	54.0	-34.7	-24.3	109	2.01
2552.21	-33.85	28.49	45.6	36.1	40.2	30.7	74.0	54.0	-33.8	-23.3	77	2.12

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1094.81	-35.50	24.43	51.4	41.8	40.3	30.7	74.0	54.0	-33.7	-23.3	334	1.22
1804.47	-34.21	26.49	47.9	37.4	40.2	29.7	74.0	54.0	-33.8	-24.3	123	1.27
1842.38	-34.16	26.63	49.7	38.1	42.1	30.6	74.0	54.0	-31.9	-23.4	74	1.33
1997.45	-33.98	27.19	45.4	34.9	38.6	28.1	74.0	54.0	-35.4	-25.9	123	1.35
2297.65	-33.91	27.85	45.9	34.7	39.9	28.6	74.0	54.0	-34.1	-25.4	255	1.29
2544.25	-33.85	28.46	44.9	33.6	39.5	28.2	74.0	54.0	-34.5	-25.8	101	1.34

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "PK": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



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Temperature:	24 °C	Humidity:	55 %RH
Receiver Detector:	PK. or AV.	Tested Mode:	Rx3 (2480 MHz)
Frequency Range:	1 – 25GHz	Modulation Type:	GFSK
Tested By:	Jeff Lo	Tested Date:	Jun. 27, 2011

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1791.44	-34.22	26.45	47.0	37.1	39.2	29.3	74.0	54.0	-34.8	-24.7	204	2.22
1825.35	-34.18	26.57	48.6	38.2	40.9	30.6	74.0	54.0	-33.1	-23.4	155	2.17
1842.00	-34.16	26.63	49.5	39.5	41.9	32.0	74.0	54.0	-32.1	-22.0	138	2.04
1997.31	-33.98	27.19	45.1	34.4	38.3	27.6	74.0	54.0	-35.7	-26.4	122	2.15
2144.27	-33.95	27.52	45.3	34.5	38.9	28.1	74.0	54.0	-35.1	-25.9	199	2.03
2289.18	-33.91	27.84	45.0	35.8	38.9	29.7	74.0	54.0	-35.1	-24.3	109	2.11

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ (°)	EL (m)
			PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1099.88	-35.49	24.44	52.8	42.8	41.7	31.7	74.0	54.0	-32.3	-22.3	301	1.11
1842.03	-34.16	26.63	49.9	38.7	42.3	31.2	74.0	54.0	-31.7	-22.8	321	1.21
2085.50	-33.96	27.39	46.0	36.6	39.4	30.0	74.0	54.0	-34.6	-24.0	47	1.31
2250.37	-33.92	27.75	44.8	34.2	38.7	28.0	74.0	54.0	-35.3	-26.0	308	1.32
2385.44	-33.89	28.05	44.6	33.1	38.7	27.3	74.0	54.0	-35.3	-26.7	258	1.27
2565.11	-33.84	28.53	45.3	33.9	39.9	28.6	74.0	54.0	-34.1	-25.4	97	1.33

NOTE :

1. Measurement uncertainty is +/- 4.73dB.
2. "F": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission 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 strength of fundamental frequency.



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5. Antenna application

5.1 Antenna requirement

The EUT's antenna is met the requirement of FCC part15C section15.203 and 15.204.

5.2 Result

The EUT's antenna used a PCB printed. Gain of antenna types is -3dBi that meet the requirement.



6. PHOTOS OF TESTING

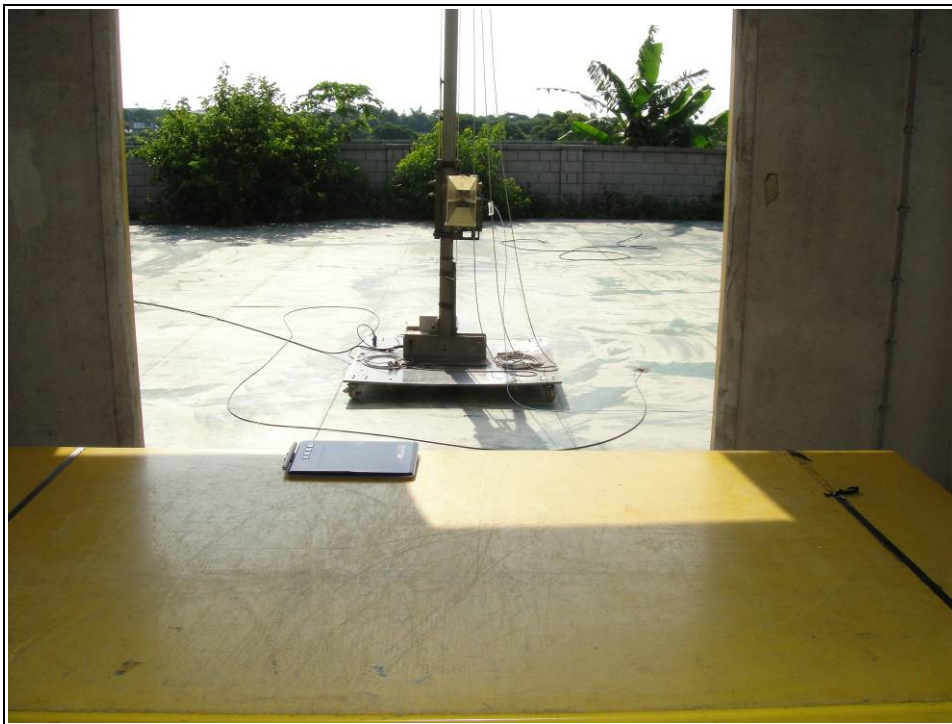
- Radiated test (below 1G , TX & Standby)





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





- Radiated test (below 1G , RX)





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- Radiated test (above 1G , RX)





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7. 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