

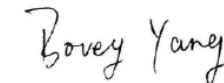
FCC RADIO TEST REPORT

Report Reference No. : E-R1011004

Compiled by (+ signature) : Jim He



Approved by (+ signature) : Bovey Yang



Date of issue..... : 2010-11-29

Applicant's name : Jett(Aust)Pty Ltd.

Address : 110 Elvian Road, Woori Yallock, Bictoria, 3139, Australia

Manufacture's Name : Fairlegend Electronics, Ltd

Address : Shang Cun, Yuan Shan Industrial Zone B, Gongming Town, Shenzhen, China

Test specification:

Standard : FCC Part15.249

Test procedure : ANSI C63.4-2003

Test item description

Product name : Heatvest

FCC ID : Y2MFL581A

Trademark : JETT

Model and/or type reference : FL581A

Rating(s) : DC 7.4V From Battery

Testing Laboratory information:

Testing Laboratory Name : Asia Institute Technology (Dongguan) Limited

Address : No.6 Binhe Road, Tianxin Village, Huangjiang, Dongguan, Guangdong, China.

This device described above has been tested by Asia Institute Technology (Dongguan) Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Testing :

Date of receipt of test item : 24 Nov. 2010

Date (s) of performance of tests : 25 Nov. 2010 ~29 Nov. 2010

Date of Issue..... : 29 Nov. 2010

Test Result..... : **Pass**

GENERAL REPORT SUMMARY

Test Facility

The test facility is recognized, certified or accredited by the following organizations:

.FCC- Registration No: 248337

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Asia Institute Technology (Dongguan) Limited have been registered by Federal Communications Commission (FCC) on Dec.07, 2006.

.Industry Canada(IC)-Registration No: IC6819A-1 & IC6819A-2

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Asia Institute Technology (Dongguan) Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Nov.07, 2006.

.VCCI- Registration No: R-2482 & C-2730 & R-2638

The 3m/10m Open Area Test Site, Shielding Room and 3m Chamber of Asia Institute Technology (Dongguan) Limited have been registered by Voluntary Control Council for Interference on Jan.24, 2007 and Oct. 30, 2007.

.TUV Rhineland

Asia Institute Technology (Dongguan) Limited has been assessed on Jan.16, 2007 that it can carry out EMC tests by order and under supervision of TUV Rhineland.

.ITS- Registration No: TMPSHA031

Asia Institute Technology (Dongguan) Limited has been assessed and included in Intertek Shanghai TMP Program regarding Laboratory facilities and test equipment on Nov.10, 2006.

Table of Contents	Page
GENERAL REPORT SUMMARY	2
1 . SUMMARY OF TEST RESULTS	4
1.1 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	8
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	9
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	10
3 . TEST RESULT	12
3.1 ANTENNA REQUIREMENT	12
3.1.1 STANDARD REQUIREMENT	12
3.1.2 EUT ANTENNA	12
3.2 CONDUCTED EMISSION MEASUREMENT	13
3.2.1 POWER LINE CONDUCTED EMISSION LIMITS	13
3.2.2 TEST PROCEDURE	14
3.2.3 DEVIATION FROM TEST STANDARD	14
3.2.4 TEST SETUP	14
3.2.5 TEST RESULT	14
3.3 RADIATED EMISSION MEASUREMENT	15
3.3.1 RADIATED EMISSION LIMITS	15
3.3.2 TEST PROCEDURE	16
3.3.3 DEVIATION FROM TEST STANDARD	16
3.3.4 TEST SETUP	17
3.3.5 TEST RESULTS (BLOW 30MHZ)	18
3.3.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)	18
3.3.7 TEST RESULTS (ABOVE 1000 MHZ)	20
4 . BANDWIDTH TEST	26
4.1 TEST PROCEDURE	26
4.2 DEVIATION FROM STANDARD	26
4.3 TEST SETUP	26
4.4 TEST RESULTS	27
5 . EUT TEST PHOTO	29
6 . APPENDIX-Photographs of EUT Constructional Details	

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	Note(1)
15.203	Antenna Requirement	Pass	
15.249	Radiated Spurious Emission	Pass	
15.249	Occupied Bandwidth	Pass	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.

1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	Radiated Emission Test	$\pm 3.17\text{dB}$
3	RF power,conducted	$\pm 0.16\text{dB}$
4	Spurious emissions,conducted	$\pm 0.21\text{dB}$
5	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
6	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Heatvest	
Trade Name	JETT	
Model Name	FL581A	
OEM Brand/Model Name	N/A	
Model Difference	N/A	
Product Description	The EUT is a Heatvest	
	Operation Frequency:	2405~2480 MHz
	Modulation Type:	GFSK
	Antenna Designation:	Printed ANT
	Antenna Gain(Peak)	2 dBi
Channel List	Please refer to the Note 2.	
Power Source	DC Voltage supplied from 2* lithium size Battery	
Power Rating	DC 7.4V	
Connecting I/O Port(s)	Please refer to the User's Manual	
Products Covered	N/A	
EUT Modification(s)	N/A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2405						
02	2440						
03	2480						

3.

Table for Filed Antenna

Ant .	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Printed Antenna	NA	2	Antenna

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH1
Mode 2	CH2
Mode 3	CH3

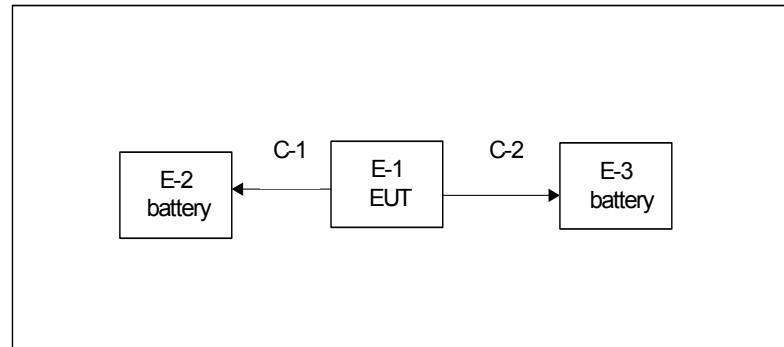
For Conducted Emission	
Final Test Mode	Description
-	"N/A" denotes test is not applicable in this Test Report

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH1
Mode 2	CH2
Mode 3	CH3

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



Note:

E-1 The E-1 is the EUT.

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Heatvest	N/A	FL581A	Y2MFL581A	N/A	EUT
E-2	Battery	N/A	N/A	VOC	N/A	
E-3	Battery	N/A	N/A	VOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.5M	
C-2	NO	NO	0.5M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.4.1 EQUIPMENTS LIST FOR ALL TEST ITEMS

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Due Date
1	Spectrum Analyzer	ADVANTEST	R3182	150900201	2011.04.16
2	EMI Measuring Receiver	Schaffner	SCR3501	235	2011.04.06
3	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2011.09.06
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A04738	2011.04.07
5	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2011.07.01
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	451	2011.07.14
7	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2011.09.06
8	EMI Test Receiver	R&S	ESCI	100124	2010.12.27
9	LISN	Kyoritsu	KNW-242	8-837-4	2011.04.06
10	LISN	Kyoritsu	KNW-407	8-1789-3	2011.04.06
11	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2011.09.06
12	Loop Antenna	ARA	PLA-1030/B	1029	2011.03.19

3. TEST RESULT

3.1 ANTENNA REQUIREMENT

3.1.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

3.1.2 EUT ANTENNA

The EUT antenna is integral Antenna. It comply with the standard requirement.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR
0.50 -5.0			56.00	46.00	CISPR
5.0 -30.0			60.00	50.00	CISPR

0.15 -0.5			66 - 56 *	56 - 46 *	LP002.
0.50 -5.0			56.00	46.00	LP002.
5.0 -30.0			60.00	50.00	LP002.

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

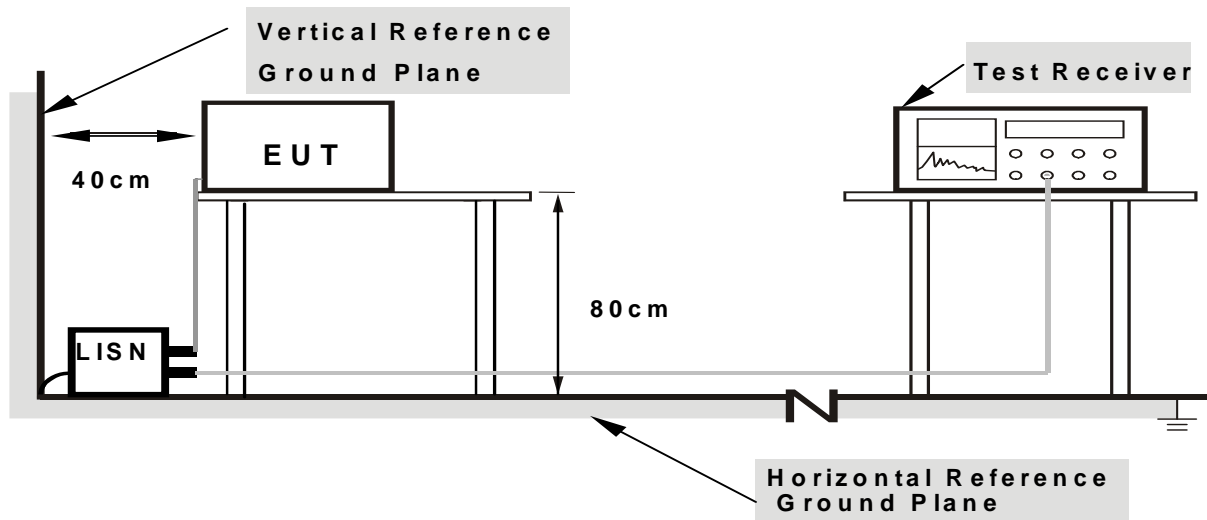
3.2.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

3.2.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.2.5 TEST RESULT

Cause the EUT only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Measurements to demonstrate compliance with the conducted limits are not required for devices

3.3 RADIATED EMISSION MEASUREMENT

3.3.1 Radiated Emission Limits (FCC 15.209)

Frequencies (MHz)	Field Strength (micроволts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental (micроволts/meter)	Field Strength of Harmonics (micроволts/meter)
2400 - 2483.5	50	500

Notes:

- (1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.3.2 TEST PROCEDURE

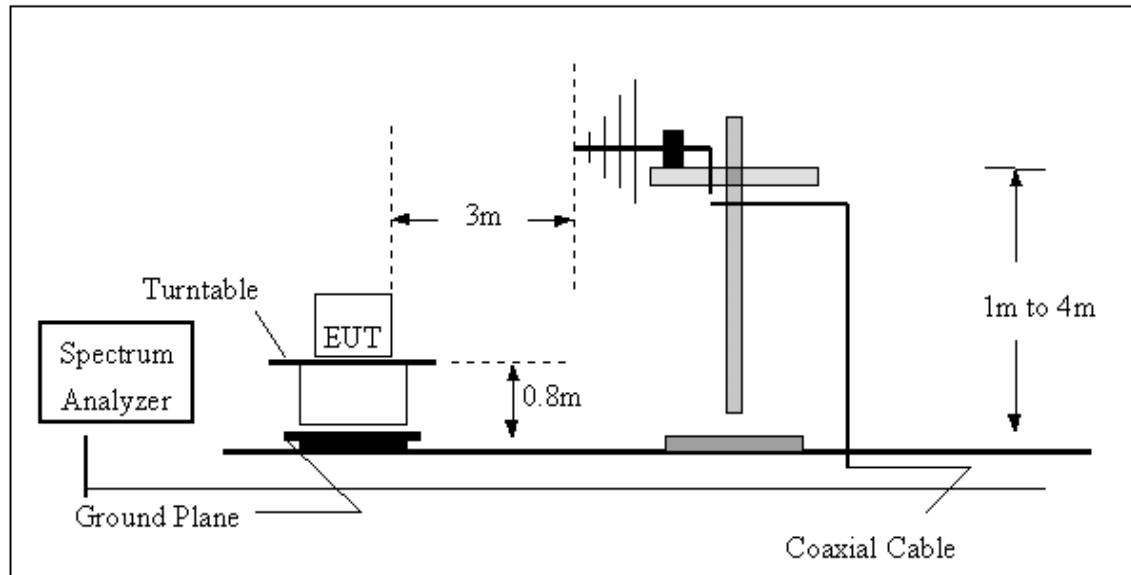
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement. performed pretest to three orthogonal axis.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3.3 DEVIATION FROM TEST STANDARD

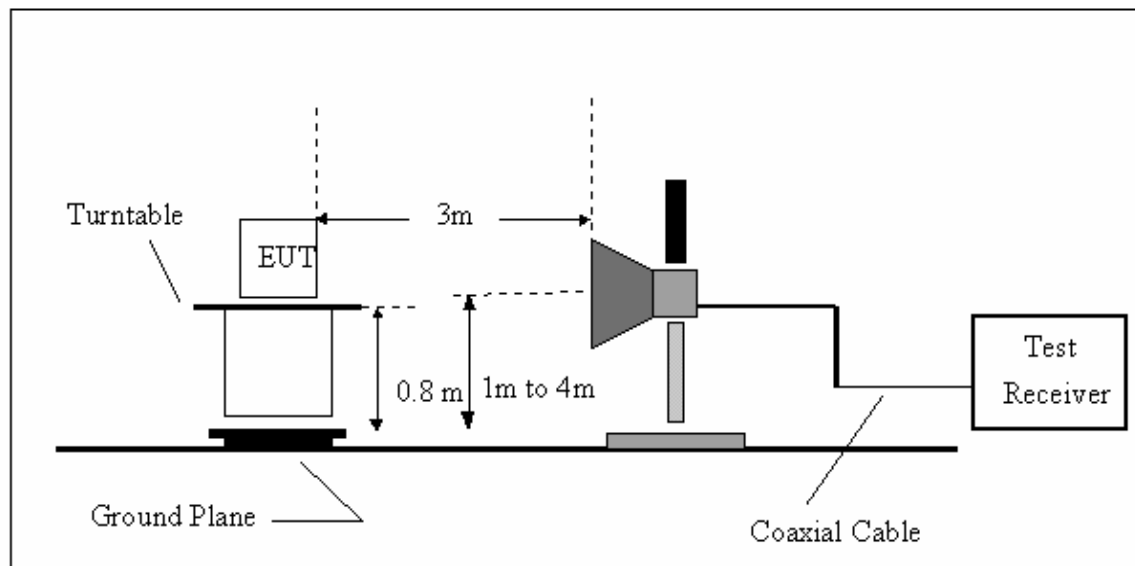
No deviation

3.3.4 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



3.3.5 TEST RESULTS (BLOW 30MHz)

There is not detected blow 30MHz.

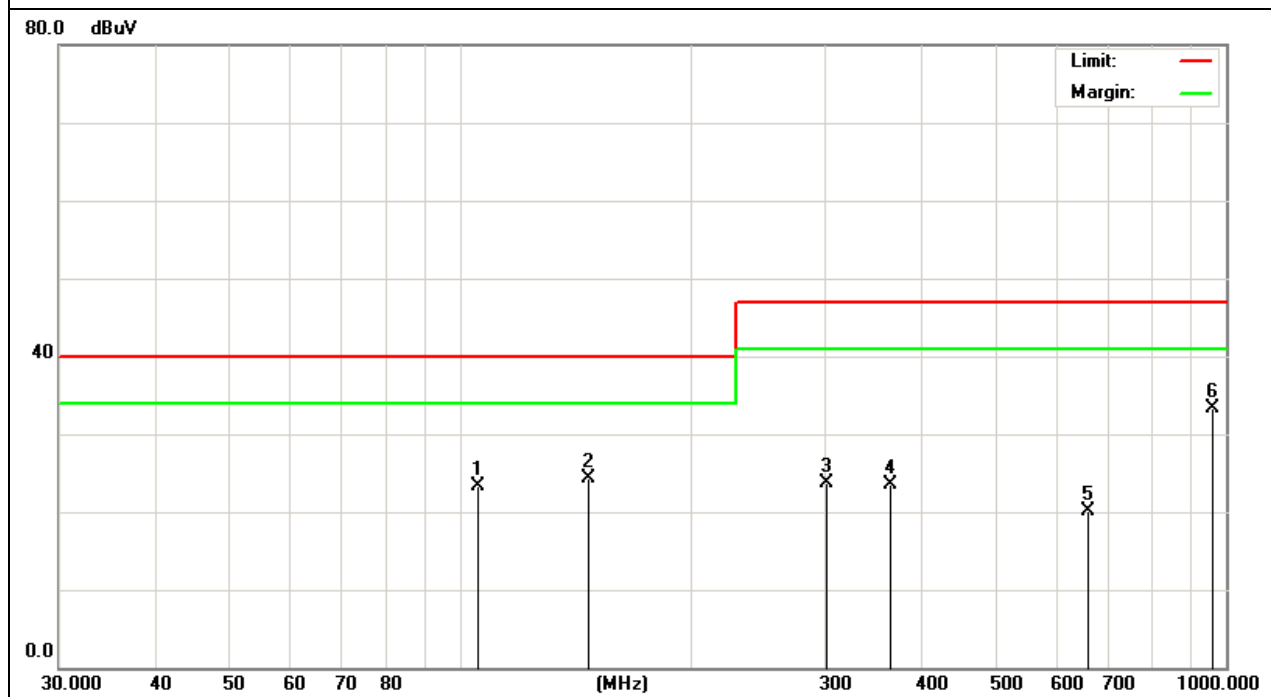
3.3.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT :	Heatvest	Model Name :	FL581A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2010-11-29
Test Mode :	TX	Polarization :	Horizontal
Test Power :	DC 3V FROM BATTERY		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
105.45	38.09	-14.71	23.38	40.00	-16.62	Quasi-Peak
147.25	35.42	-11.15	24.27	40.00	-15.73	Quasi-Peak
300.57	33.94	-10.24	23.70	47.00	-23.30	Quasi-Peak
364.26	31.95	-8.45	23.50	47.00	-23.50	Quasi-Peak
660.57	21.81	-1.61	20.20	47.00	-26.80	Quasi-Peak
957.53	30.81	2.47	33.28	47.00	-13.72	Quasi-Peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

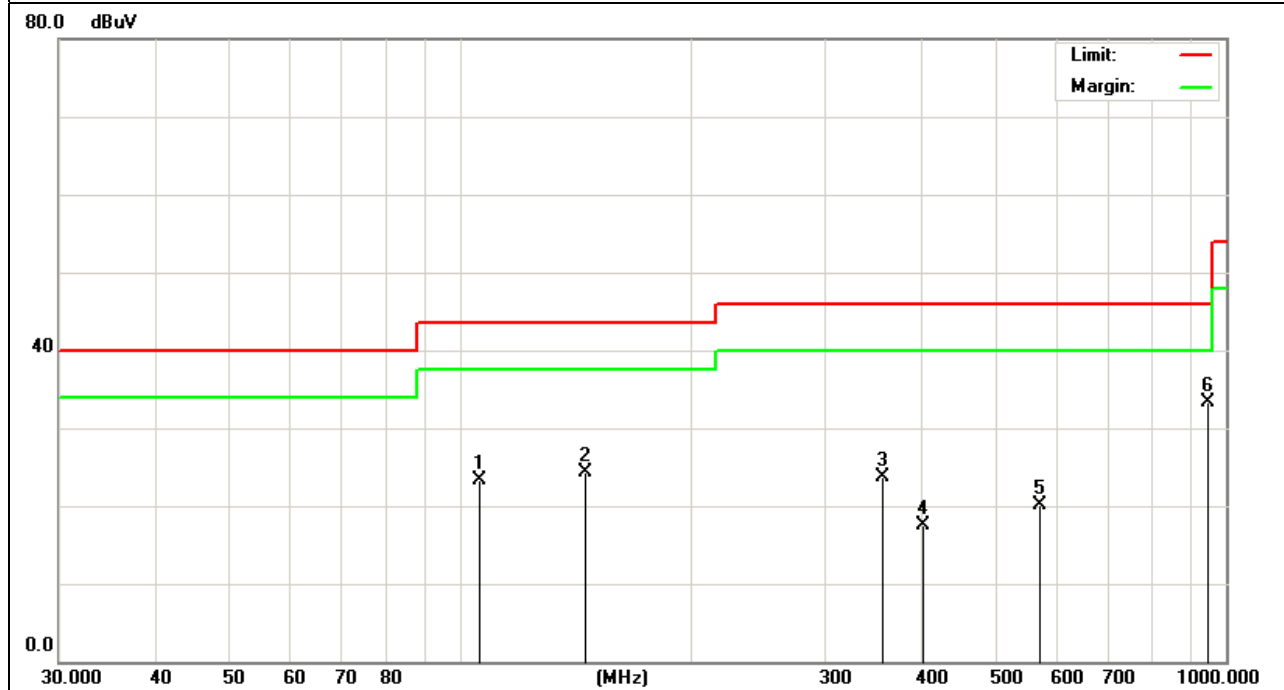


EUT :	Heatvest	Model Name :	FL581A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2010-11-29
Test Mode :	TX	Polarization :	Vertical
Test Power :	DC 3V FROM BATTERY		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
105.68	38.06	-14.68	23.38	43.50	-20.12	Quasi-Peak
145.78	35.52	-11.25	24.27	43.50	-19.23	Quasi-Peak
355.88	32.41	-8.71	23.70	46.00	-22.30	Quasi-Peak
400.59	24.85	-7.35	17.50	46.00	-28.50	Quasi-Peak
572.61	23.51	-3.31	20.20	46.00	-25.80	Quasi-Peak
945.44	30.98	2.30	33.28	46.00	-12.72	Quasi-Peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



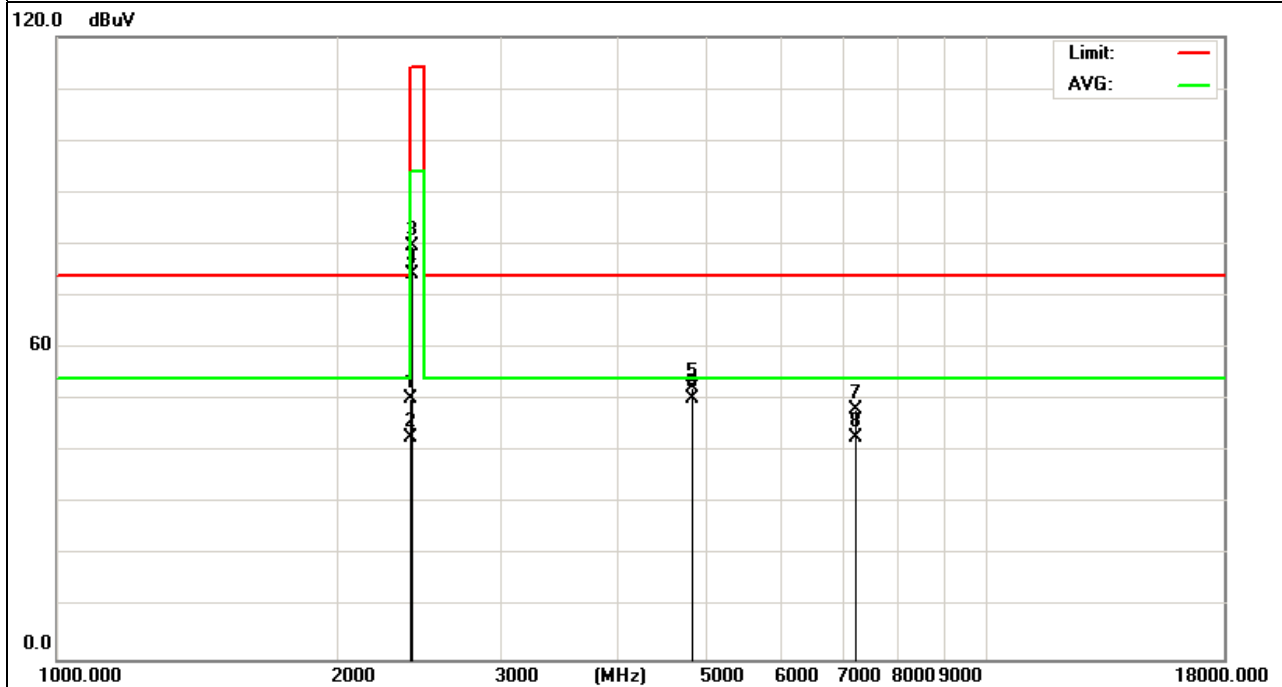
3.3.7 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Heatvest	Model Name :	FL581A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2010-11-29
Test Mode :	TX 2405MHz	Polarization :	Horizontal
Test Power :	DC 3V FROM BATTERY		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.00	51.91	-1.79	50.12	74.00	-23.88	peak
2400.00	44.53	-1.79	42.74	54.00	-11.26	AVG
2405.00	81.30	-1.77	79.53	114.00	-34.47	peak
2405.00	76.00	-1.77	74.23	94.00	-19.77	AVG
4810.00	48.23	4.12	52.35	74.00	-21.65	peak
4810.00	46.02	4.12	50.14	54.00	-3.86	AVG
7215.00	36.59	11.64	48.23	74.00	-25.77	peak
7215.00	31.13	11.64	42.77	54.00	-11.23	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

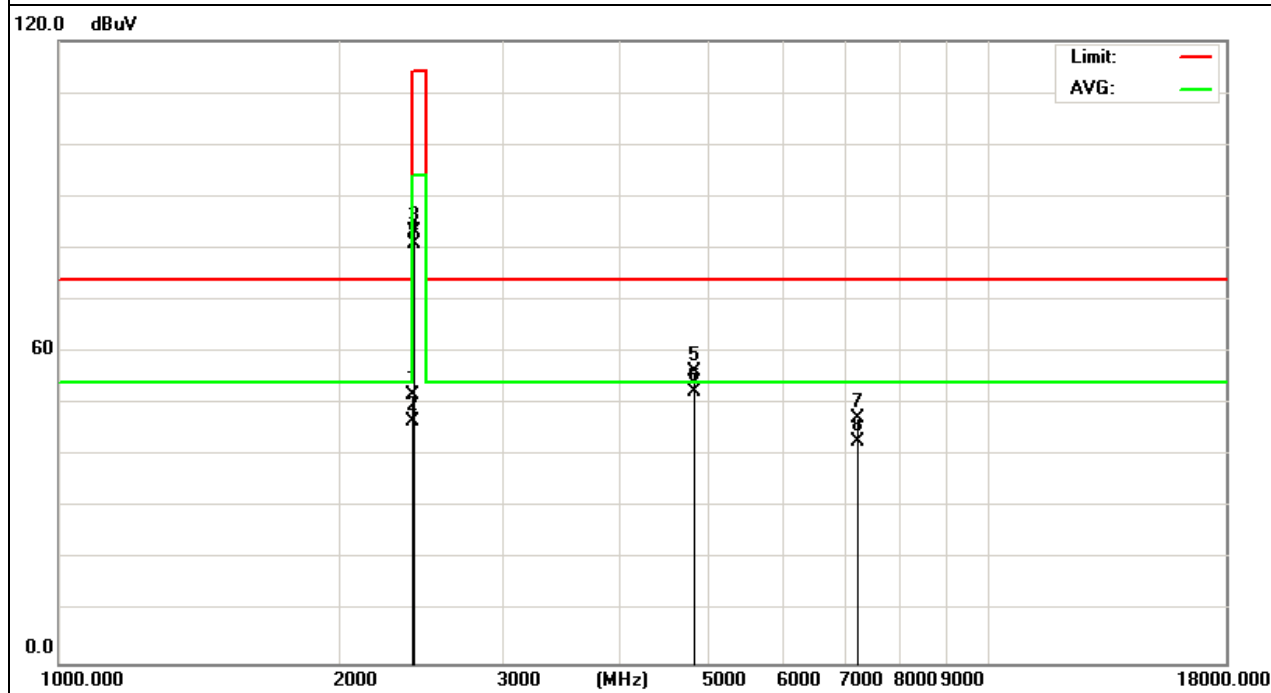


EUT :	Heatvest	Model Name :	FL581A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2010-11-29
Test Mode :	TX 2405MHz	Polarization :	Vertical
Test Power :	DC 3V FROM BATTERY		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.00	53.54	-1.79	51.75	74.00	-22.25	peak
2400.00	48.34	-1.79	46.55	54.00	-7.45	AVG
2405.00	84.88	-1.77	83.11	114.00	-30.89	peak
2405.00	82.64	-1.77	80.87	94.00	-13.13	AVG
4810.00	52.04	4.12	56.16	74.00	-17.84	peak
4810.00	48.17	4.12	52.29	54.00	-1.71	AVG
7215.00	35.48	11.64	47.12	74.00	-26.88	peak
7215.00	31.23	11.64	42.87	54.00	-11.13	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

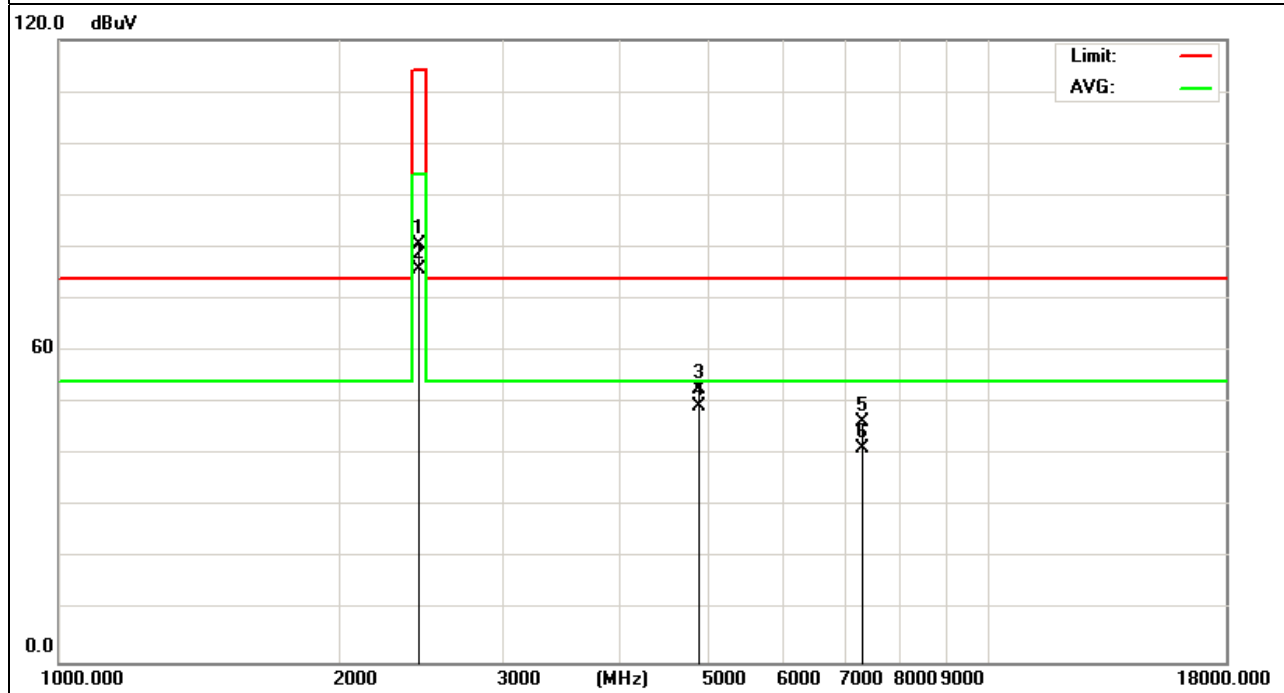


EUT :	Heatvest	Model Name :	FL581A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2010-11-29
Test Mode :	TX 2440MHz	Polarization :	Horizontal
Test Power :	DC 3V FROM BATTERY		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2440.00	82.26	-1.70	80.56	114.0 0	-33.44	peak
2440.00	77.35	-1.70	75.65	94.00	-18.35	AVG
4880.00	48.49	4.25	52.74	74.00	-21.26	peak
4880.00	45.21	4.25	49.46	54.00	-4.54	AVG
7320.00	34.50	11.95	46.45	74.00	-27.55	peak
7320.00	29.16	11.95	41.11	54.00	-12.89	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

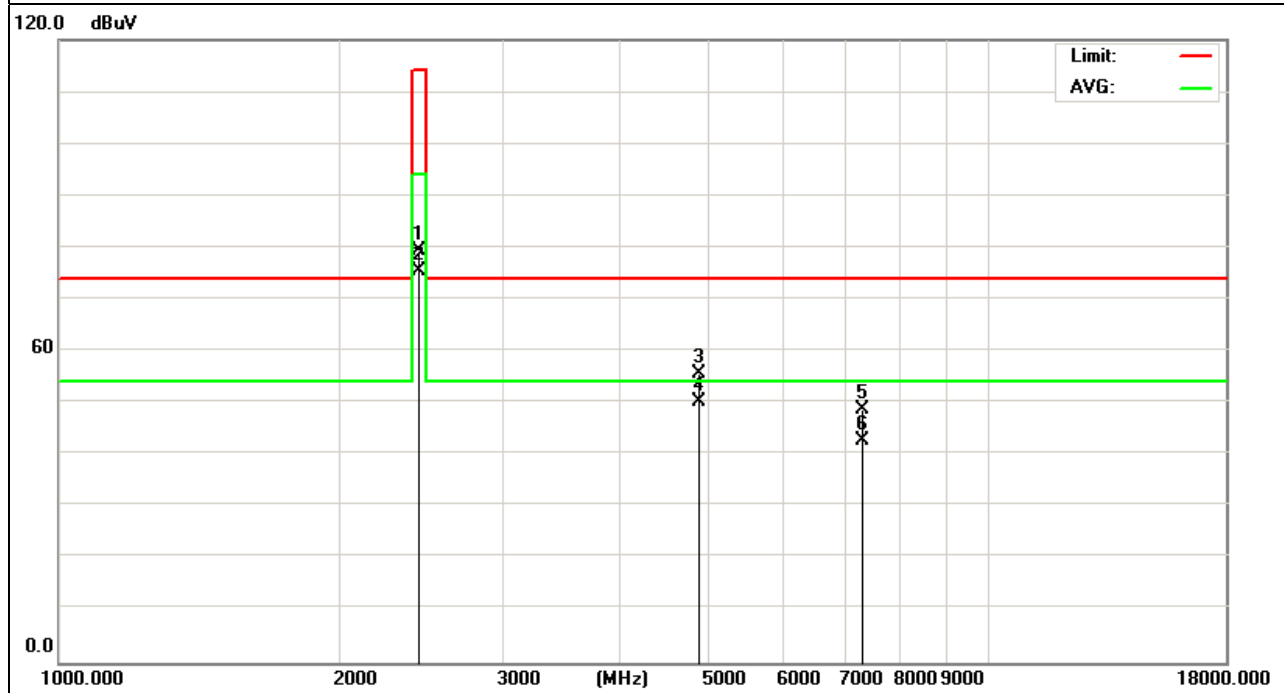


EUT :	Heatvest	Model Name :	FL581A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2010-11-29
Test Mode :	TX 2440MHz	Polarization :	Vertical
Test Power :	DC 3V FROM BATTERY		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2440.00	81.17	-1.70	79.47	114.0 0	-34.53	peak
2440.00	77.26	-1.70	75.56	94.00	-18.44	AVG
4880.00	51.42	4.25	55.67	74.00	-18.33	peak
4880.00	46.01	4.25	50.26	54.00	-3.74	AVG
7320.00	36.70	11.95	48.65	74.00	-25.35	peak
7320.00	30.92	11.95	42.87	54.00	-11.13	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

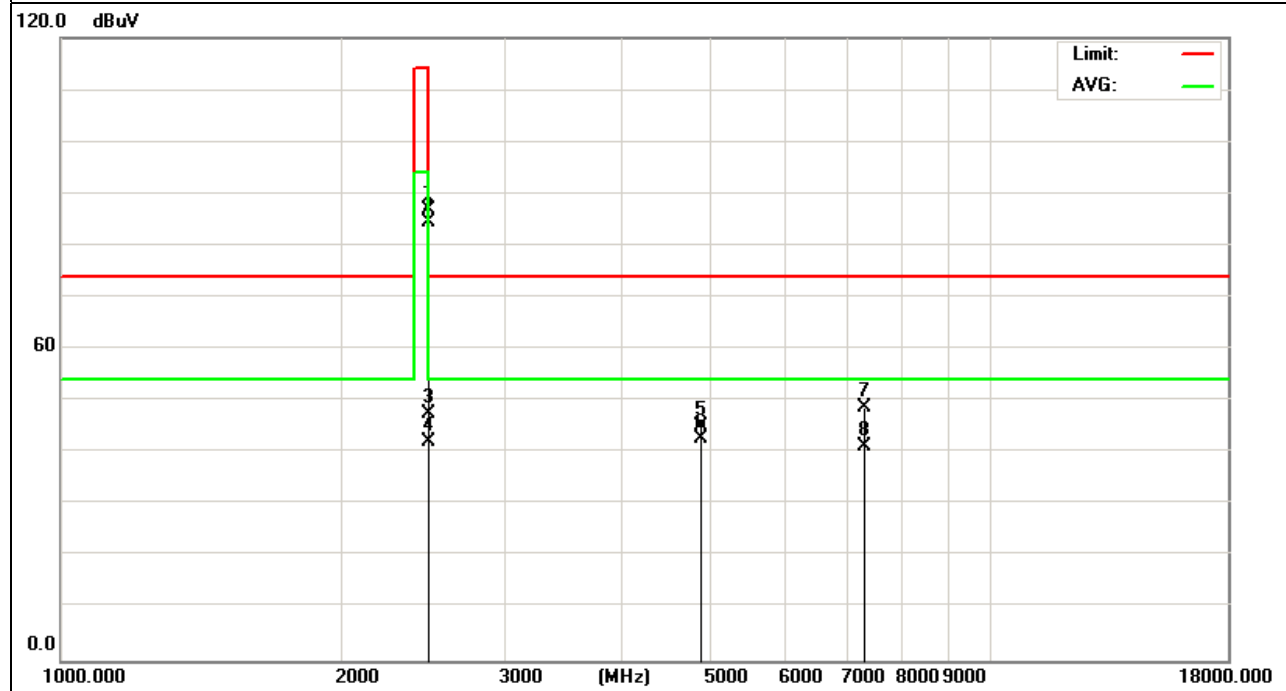


EUT :	Heatvest	Model Name :	FL581A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2010-11-29
Test Mode :	TX 2480MHz	Polarization :	Horizontal
Test Power :	DC 3V FROM BATTERY		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2480.00	88.46	-1.59	86.87	114.0 0	-27.13	peak
2480.00	86.16	-1.59	84.57	94.00	-9.43	AVG
2483.50	49.04	-1.58	47.46	74.00	-26.54	peak
2483.50	43.70	-1.58	42.12	54.00	-11.88	AVG
4880.00	40.98	4.25	45.23	74.00	-28.77	peak
4880.00	38.53	4.25	42.78	54.00	-11.22	AVG
7320.00	36.70	11.95	48.65	74.00	-25.35	peak
7320.00	29.28	11.95	41.23	54.00	-12.77	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

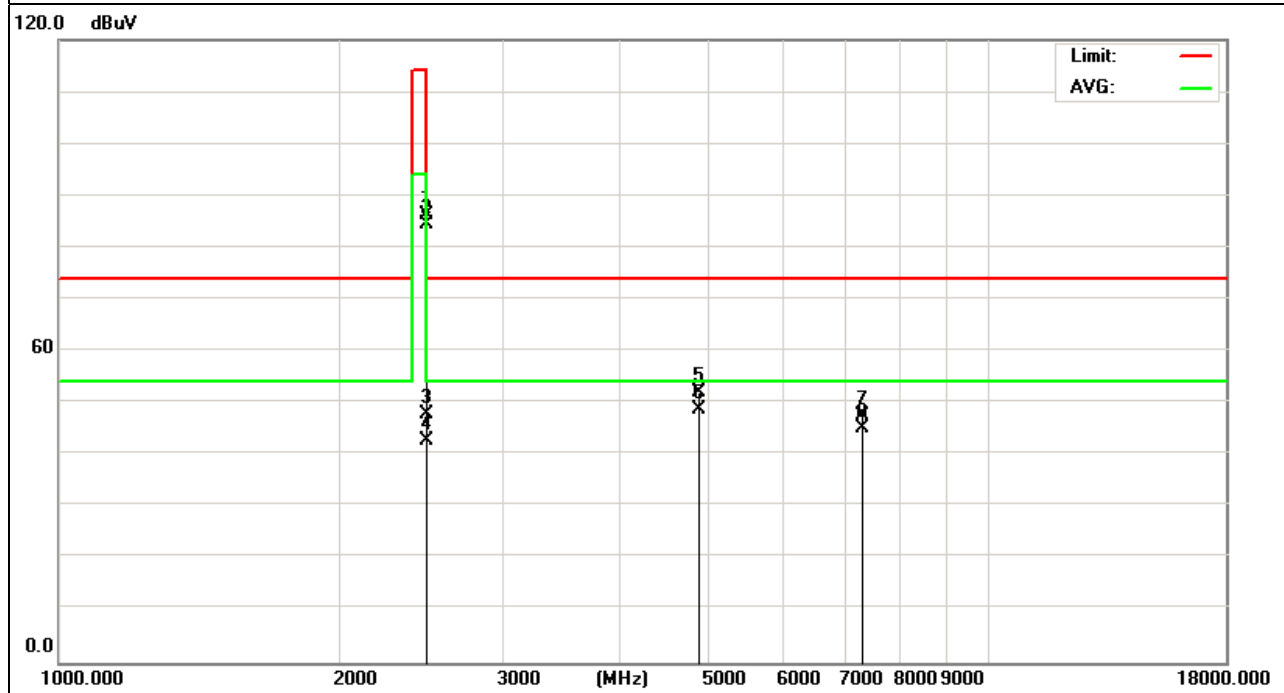


EUT :	Heatvest	Model Name :	FL581A
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2010-11-29
Test Mode :	TX 2480MHz	Polarization :	Vertical
Test Power :	DC 3V FROM BATTERY		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2480.00	87.89	-1.59	86.30	114.0 0	-27.70	peak
2480.00	86.13	-1.59	84.54	94.00	-9.46	AVG
2483.50	49.45	-1.58	47.87	74.00	-26.13	peak
2483.50	44.26	-1.58	42.68	54.00	-11.32	AVG
4880.00	47.87	4.25	52.12	74.00	-21.88	peak
4880.00	44.42	4.25	48.67	54.00	-5.33	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



4. BANDWIDTH TEST

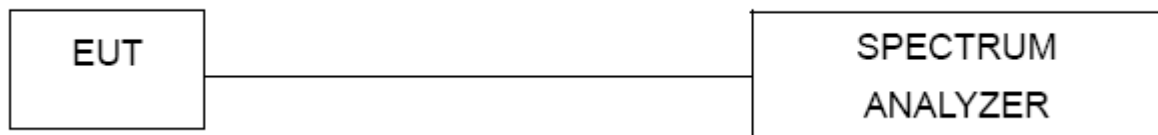
4.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW \geq RBW, Sweep time = Auto.

4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP

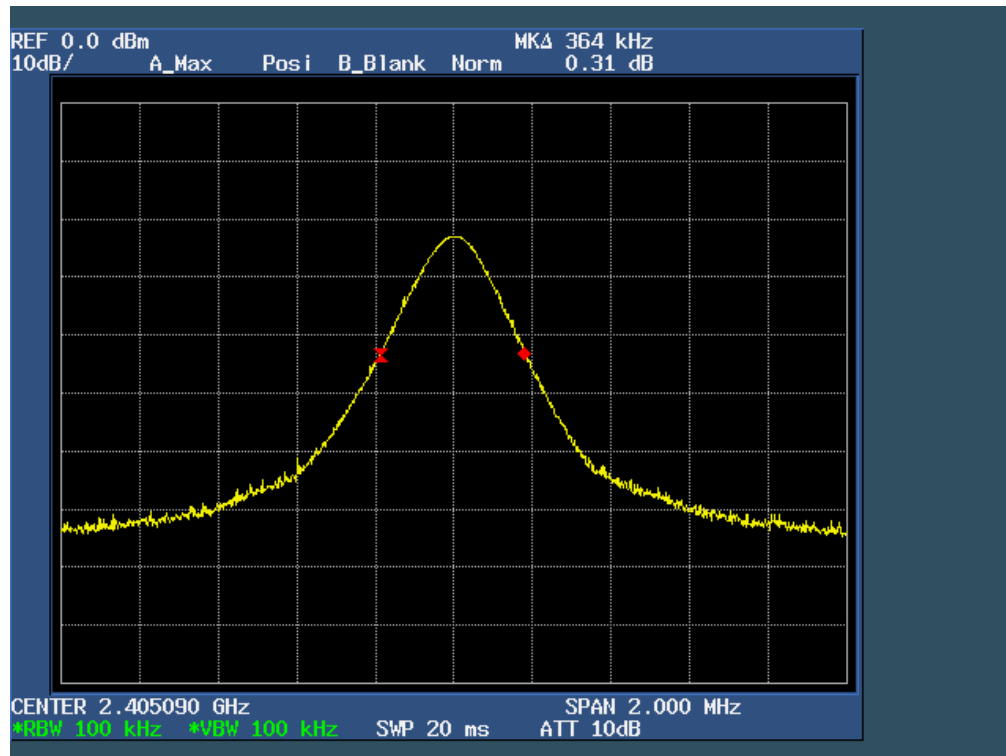


4.4 TEST RESULTS

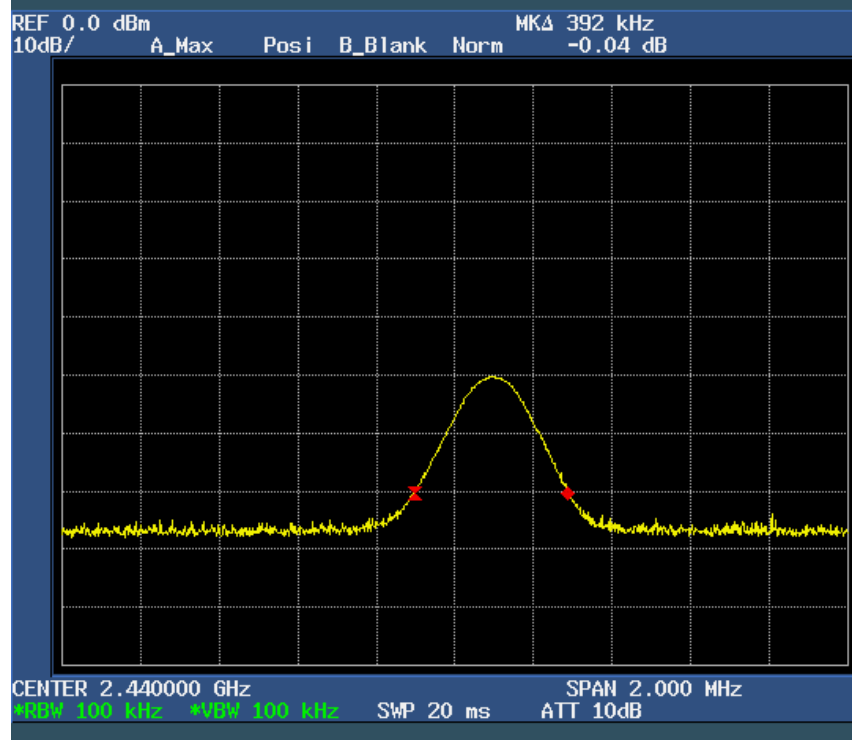
EUT :	Heatvest	Model Name :	FL581A
Temperature :	26 °C	Relative Humidity :	53%
Pressure :	1020 hPa	Test Power :	DC 3V FROM BATTERY
Test Mode :	TX CH 1/2/3		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)
CH01	2405	0.364
CH02	2440	0.392
CH03	2480	0.364

The Lowest Channel:2405MHz



The Middle Channel:2440MHz



The High Channel:2480MHz

