

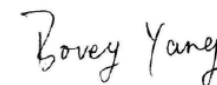
FCC RADIO TEST REPORT

Report Reference No. : NTEK-2011NT0728830E

Compiled by (+ signature) : Jim He



Approved by (+ signature) : Bovey Yang



Applicant's name : RM Group US, LLCu

Address : 1431 Airport Drive Ball Ground, GA 30107

Manufacture's Name : Shenzhen Zhuohao Intelligent Electronic Development Co.,Ltd

Address : 5 Floor Building B2 Shangrong Technology Zone Baolong Road Longgang District Shenzhen China

Test specification:

Standard : FCC Part15.249

Test procedure : ANSI C63.4-2003

Test item description

Product name : RM Easirespond

FCC ID : ZUBRM18585RX

Trademark : RM

Model and/or type reference : RM Easirespond

Rating(s) : DC 5V by USB

Testing Laboratory information:

Testing Laboratory Name : NTEK Testing Technology Co., Ltd

Address : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao ' an District, Shenzhen P.R. China.

This device described above has been tested by NTEK Testing Technology Co., Ltd, 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 : 29 Jul. 2011

Date (s) of performance of tests : 29 Jul. 2011 ~09 Aug. 2011

Date of Issue : 10 Aug. 2011

Test Result : **Pass**

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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	Pass	
15.203	Antenna Requirement	Pass	
15.249	Radiated Spurious Emission	Pass	
15.249	Occupied Bandwidth	Pass	

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	RM Easirespond	
Trade Name	RM	
Model Name	RM Easirespond	
OEM Brand/Model Name	N/A	
Model Difference	N/A	
Product Description	The EUT is a RM Easirespond	
	Operation Frequency:	2405~2479 MHz
	Modulation Type:	GFSK
	Antenna Designation:	Printed ANT
	Antenna Gain(Peak)	0 dBi
	Channel Number	75
Channel List	Please refer to the Note 2.	
Power Source	DC Voltage supplied from USB	
Power Rating	DC 5.0V by USB	
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)
05	2405
06	2406
.....
42	2442
43	2443
.....
78	2478
79	2479

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Printed Antenna	NA	0.0	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	CH5
Mode 2	CH42
Mode 3	CH79

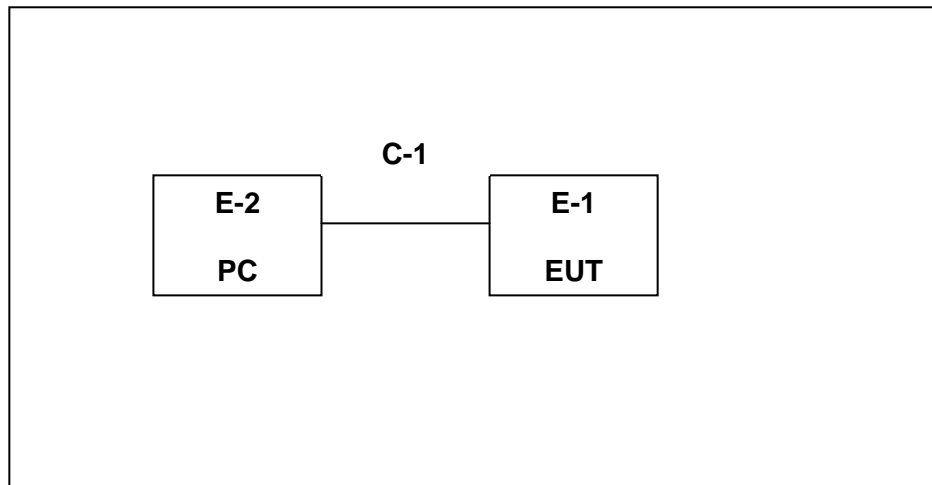
For Conducted Emission	
Final Test Mode	Description
Mode 1	TX

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH5
Mode 2	CH42
Mode 3	CH79

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



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	RM Easirespond	RM	RM Easirespond	ZUBRM18585RX	N/A	EUT
E-2	Notebook computer	IBM	2366	N/A	N/A	AU

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	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

Radiation Test Equipment:					
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Due Date dd-mm-yy
1	Spectrum Analyzer	Agilent	E4407B	160400005	2012-4-24
2	Test Receiver	R&S	ESPI7	101318	2012-4-24
3	Bilog Antenna	TESEQ	CBL6111D	31216	2012-4-24
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2012-4-24
5	Spectrum Analyzer	ADVANTEST	R3182	150900201	2012-4-24
6	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A0473 8	2012-4-24
7	Broadband Horn Antenna	SCHWARZBEC K	BBHA9120D	451	2012-4-24
8	Loop Antenna	ARA	PLA-1030/B	1029	2012-3-19

Conduction Test equipment					
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Due Date dd-mm-yy
1**	Test Receiver	R&S	ESCI	101160	2012-4-24
2	LISN	R&S	ENV216	101313	2012-4-24
3	LISN	Kyoritsu	KNW-407	8-1789-3	2012-4-24
4**	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2012-4-24
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2012-4-24
6	Absorbing clamp	R&S	MDS-21	100423	2012-4-24

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

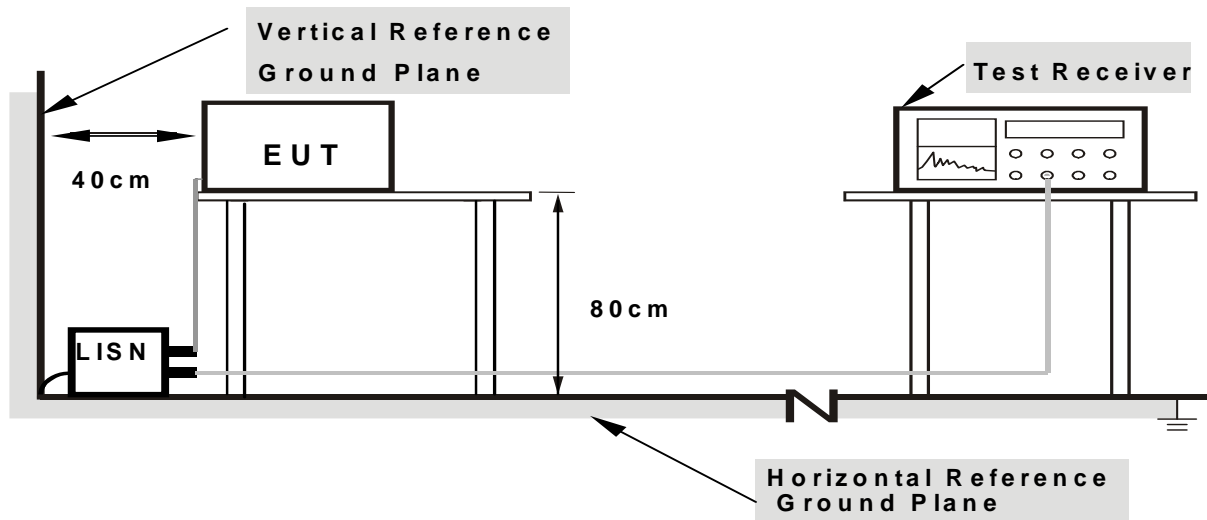
3.2.2 TEST PROCEDURE

- 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 from other units and other metal planes

3.2.5 TEST RESULT

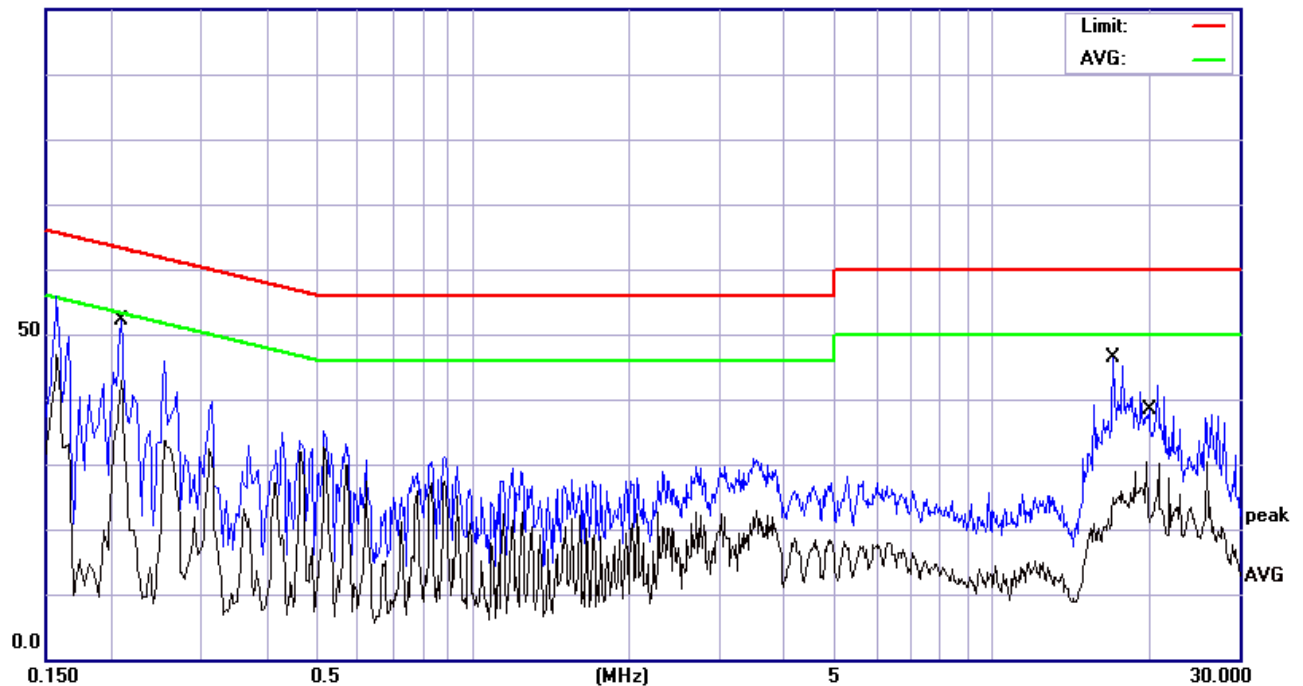
EUT :	RM Easirespond	Model Name. :	Alpha 5170
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2011-08-04
Test Mode :	TX	Phase :	L
Test Voltage :	DC 5V from PC		

No.	Mk.	Freq. MHz	Level dBuV	Factor dB	ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2100	41.61	10.44	52.05	63.20	-11.15	QP	
2	*	0.2100	32.55	10.44	42.99	53.20	-10.21	AVG	
3		17.1980	35.72	10.71	46.43	60.00	-13.57	QP	
4		19.8980	19.62	10.74	30.36	50.00	-19.64	AVG	

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. '*' means the worst case
4. N/A means All Data have pass Limit

100.0 dBuV

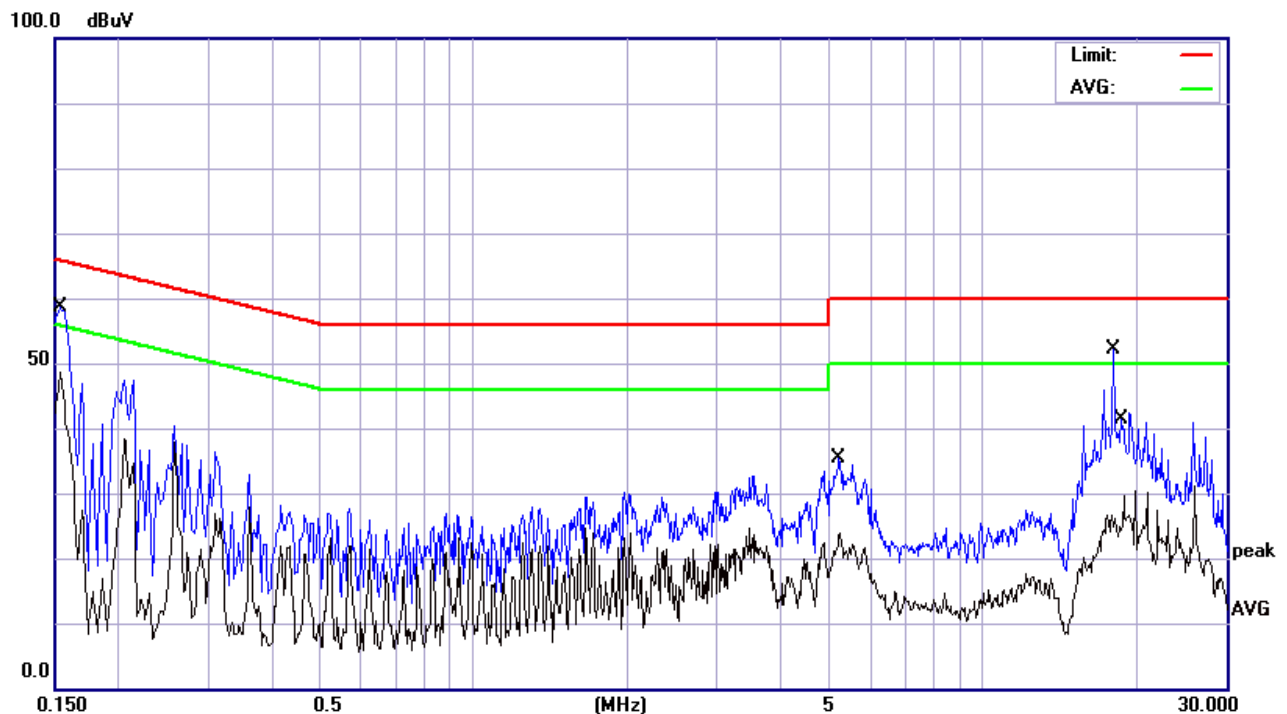


EUT :	MID	Model Name. :	Alpha 5170
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2011-08-04
Test Mode :	TX	Phase :	N
Test Voltage :	DC 5V from PC		

No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	47.49	11.03	58.52	65.78	-7.26	QP	
2	*	0.1539	37.63	11.03	48.66	55.78	-7.12	AVG	
3		5.2020	24.81	10.67	35.48	60.00	-24.52	QP	
4		5.2300	13.15	10.67	23.82	50.00	-26.18	AVG	
5		17.9619	41.40	10.75	52.15	60.00	-7.85	QP	
6		18.8500	18.81	10.76	29.57	50.00	-20.43	AVG	

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. '*' means the worst case
4. N/A means All Data have pass Limit



3.3 RADIATED EMISSION MEASUREMENT

3.3.1 Radiated Emission Limits (FCC 15.209)

Frequencies (MHz)	Field Strength (microvolt/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 (millivolts /meter)	Field Strength of Harmonics (microvolts/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

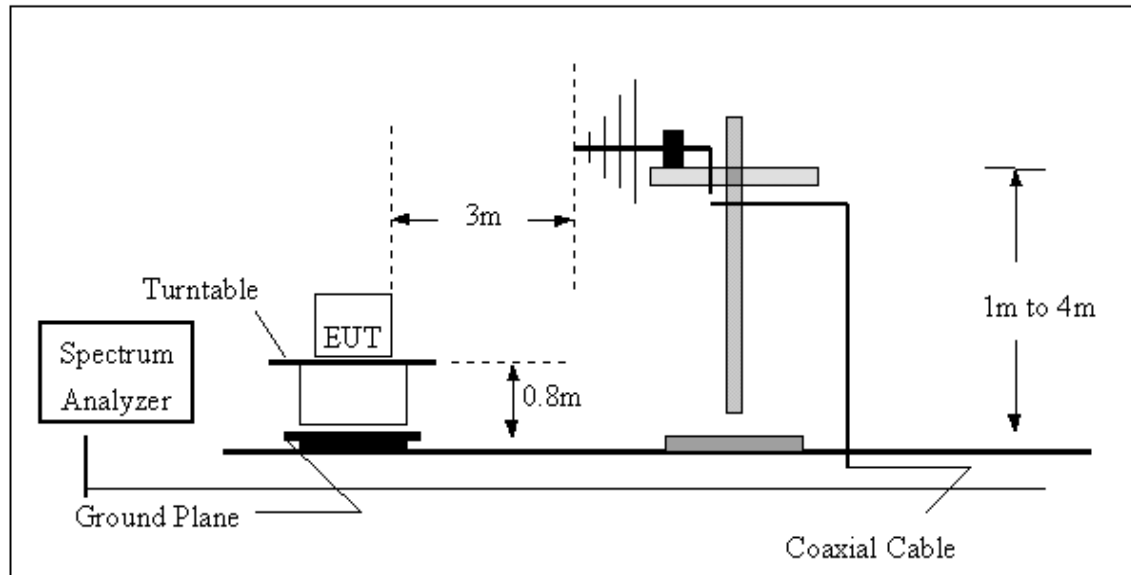
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 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

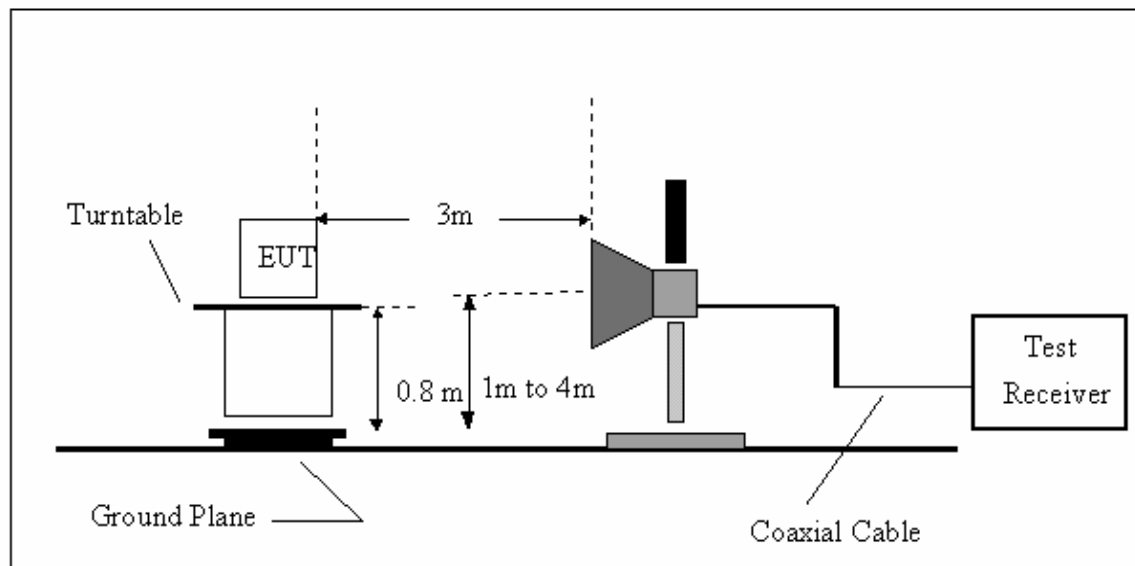
No deviation

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)

not detected blow 30MHz.

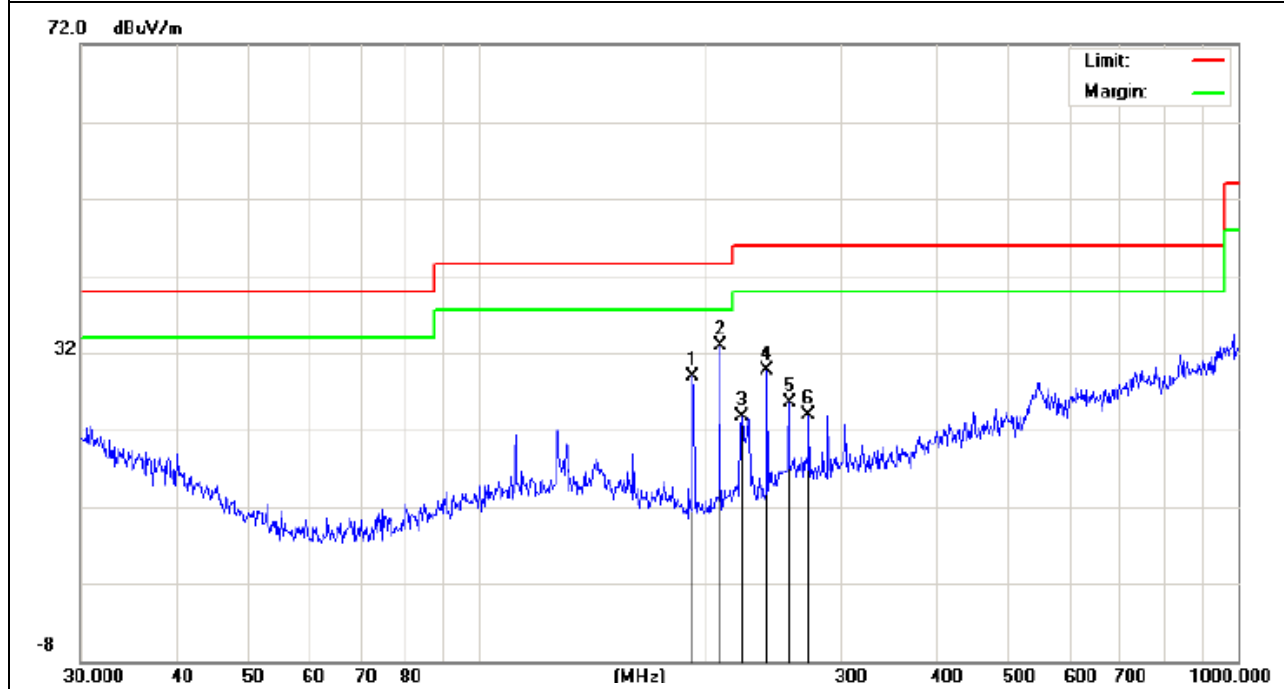
3.3.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT :	RM Easirespond	Model Name :	RM Easirespond
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2011-08-4
Test Mode :	TX	Polarization :	Horizontal
Test Power :	DC 5V by USB		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
191.75	20.27	8.72	28.99	43.50	-14.51	Quasi-Peak
207.85	23.74	9.14	32.88	43.50	-10.62	Quasi-Peak
222.17	13.66	10.04	23.70	46.00	-22.30	Quasi-Peak
234.98	18.26	11.36	29.62	46.00	-16.38	Quasi-Peak
256.52	11.53	13.92	25.45	46.00	-20.55	Quasi-Peak
272.27	10.42	13.42	23.84	46.00	-22.16	Quasi-Peak

Remark:

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

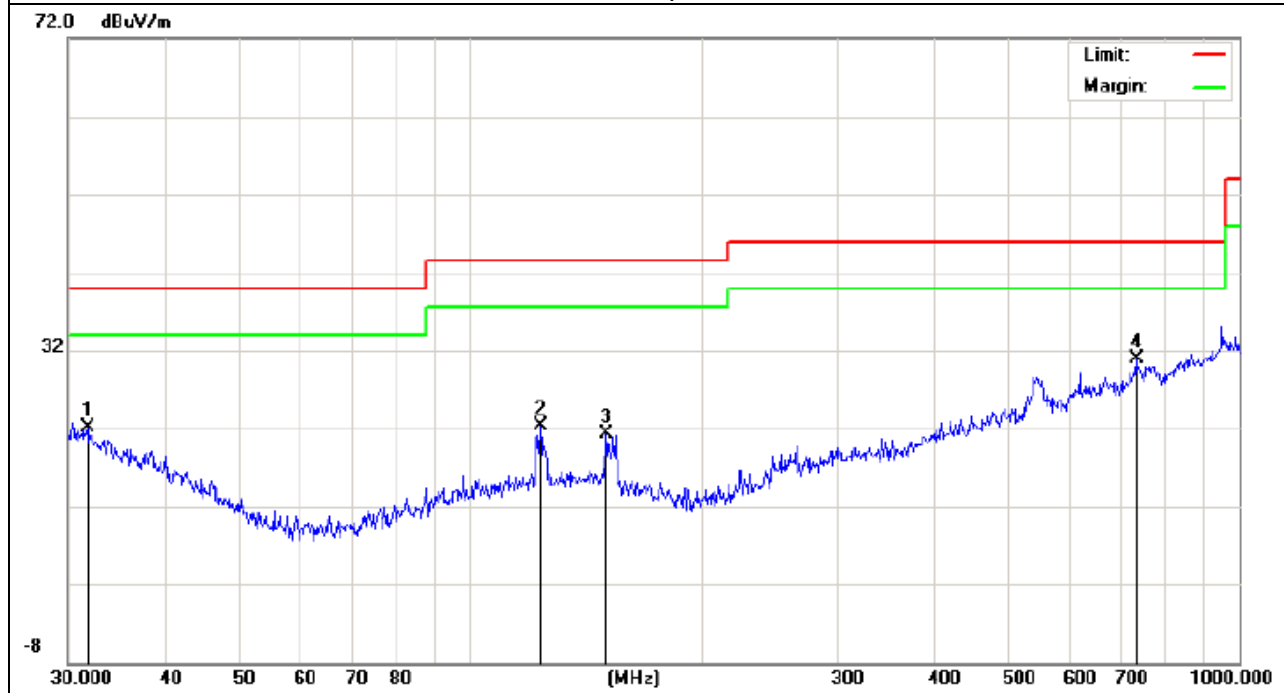


EUT :	RM Easirespond	Model Name :	RM Easirespond
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2011-08-4
Test Mode :	TX	Polarization :	Vertical
Test Power :	DC 5V by USB		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
31.73	4.52	17.49	22.01	40.00	-17.99	
123.26	10.54	11.86	22.40	43.50	-21.10	Quasi-Peak
150.01	9.52	11.78	21.30	43.50	-22.20	Quasi-Peak
734.49	6.90	24.08	30.98	46.00	-15.02	Quasi-Peak

Remark:

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



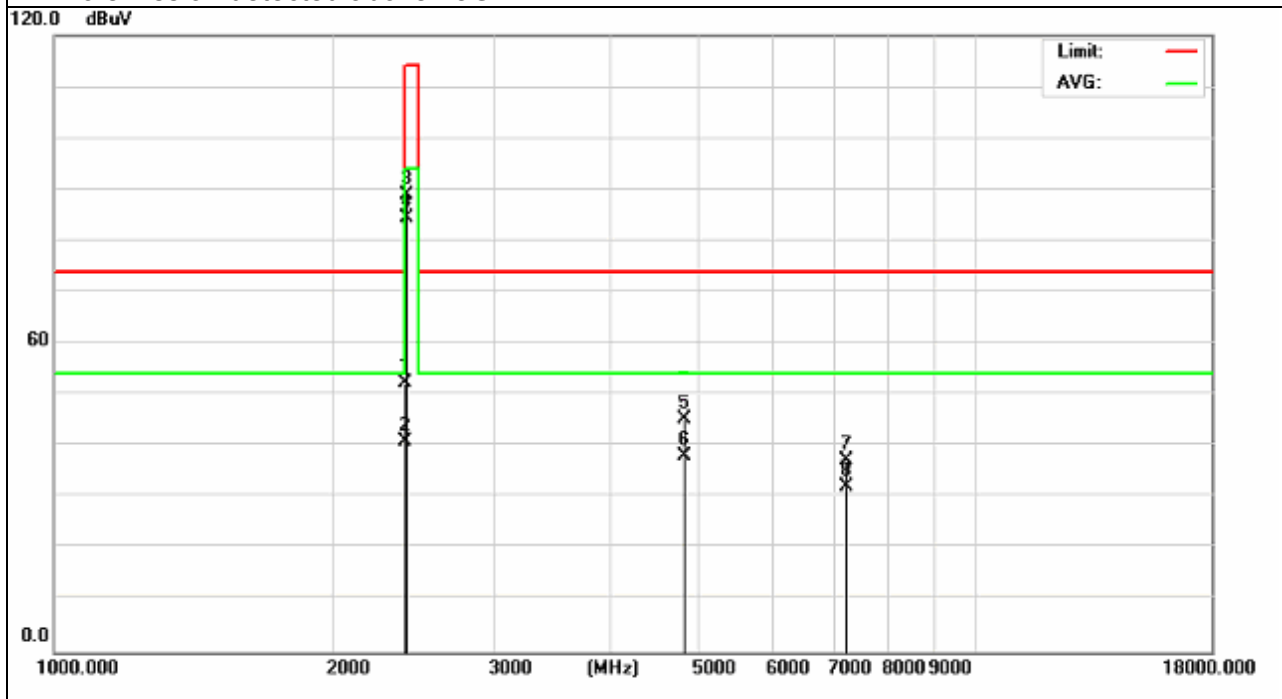
3.3.7 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	RM Easirespond	Model Name :	RM Easirespond
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2011-08-4
Test Mode :	TX 2405MHz	Polarization :	Horizontal
Test Power :	DC 5V by USB		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.00	20.49	32.65	53.14	74.00	-20.86	peak
2400.00	8.37	32.65	41.02	54.00	-12.98	AVG
2405.00	58.36	32.69	91.05	114.00	-22.95	peak
2405.00	53.54	32.69	86.23	94.00	-7.77	AVG
4810.00	1.72	44.02	45.74	74.00	-28.26	peak
4810.00	-4.14	44.02	39.88	54.00	-14.12	AVG
7215.00	-10.41	47.53	37.12	74.00	-36.88	peak
7215.00	-15.26	47.53	32.27	54.00	-21.73	AVG

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.



EUT :	RM Easirespond	Model Name :	RM Easirespond
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2011-08-4
Test Mode :	TX 2405MHz	Polarization :	Vertical
Test Power :	DC 5V by USB		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.00	18.42	32.65	51.07	74.00	-22.93	peak
2400.00	9.89	32.65	42.54	54.00	-11.46	AVG
2405.00	51.62	32.69	84.31	114.00	-29.69	peak
2405.00	47.53	32.69	80.22	94.00	-13.78	AVG
4810.00	5.39	44.02	49.41	74.00	-24.59	peak
4810.00	-4.80	44.02	39.22	54.00	-14.78	AVG
7215.00	-5.07	47.53	42.46	74.00	-31.54	peak
7215.00	-9.37	47.53	38.16	54.00	-15.84	AVG

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

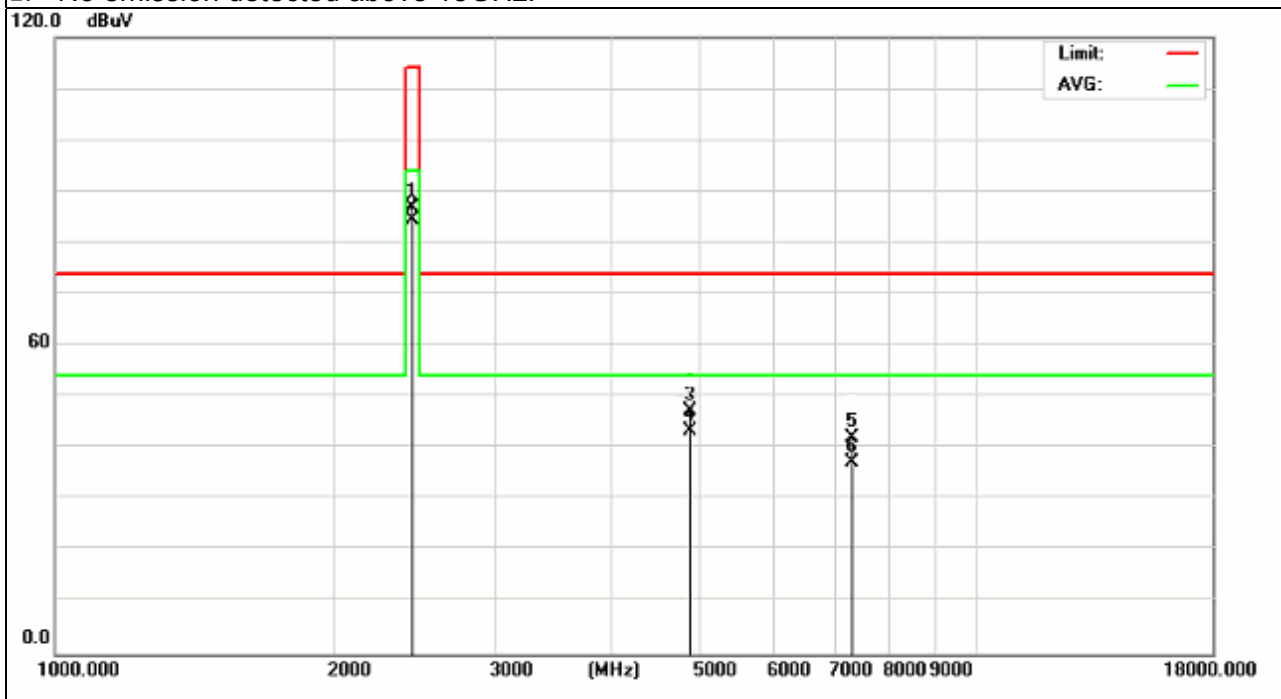


EUT :	RM Easirespond	Model Name :	RM Easirespond
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2011-08-4
Test Mode :	TX 2442MHz	Polarization :	Horizontal
Test Power :	DC 5V by USB		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2442.00	54.89	33.21	88.10	114.00	-25.90	peak
2442.00	52.94	33.21	86.15	94.00	-7.85	AVG
4884.00	15.55	32.69	48.24	74.00	-25.76	peak
4884.00	10.58	32.69	43.27	54.00	-10.73	AVG
7326.00	-1.02	42.21	41.19	74.00	-32.81	peak
7326.00	-3.00	42.21	39.21	54.00	-14.79	AVG

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

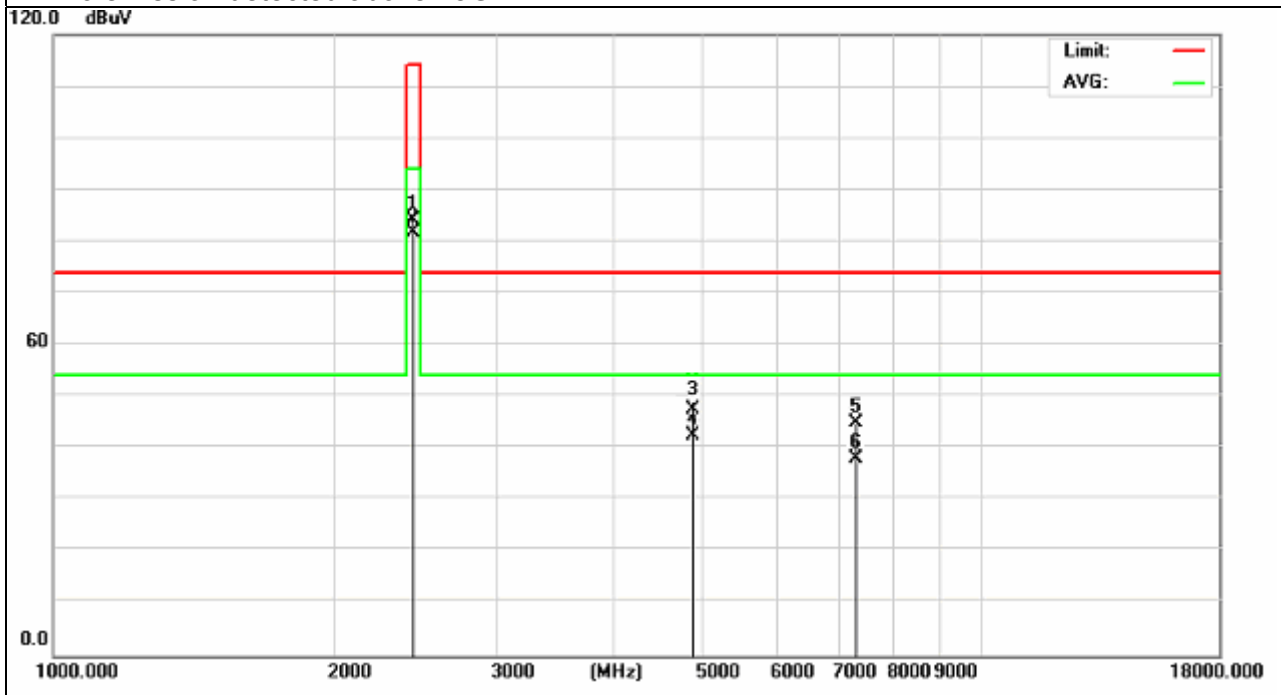


EUT :	RM Easirespond	Model Name :	RM Easirespond
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2011-08-4
Test Mode :	TX 2442MHz	Polarization :	Vertical
Test Power :	DC 5V by USB		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2442.00	51.96	33.21	85.17	114.00	-28.83	peak
2442.00	48.90	33.21	82.11	94.00	-11.89	AVG
4884.00	15.95	32.69	48.64	74.00	-25.36	peak
4884.00	9.52	32.69	42.21	54.00	-11.79	AVG
7326.00	4.68	42.21	46.89	74.00	-27.11	peak
7326.00	-3.09	42.21	39.12	54.00	-14.88	AVG

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

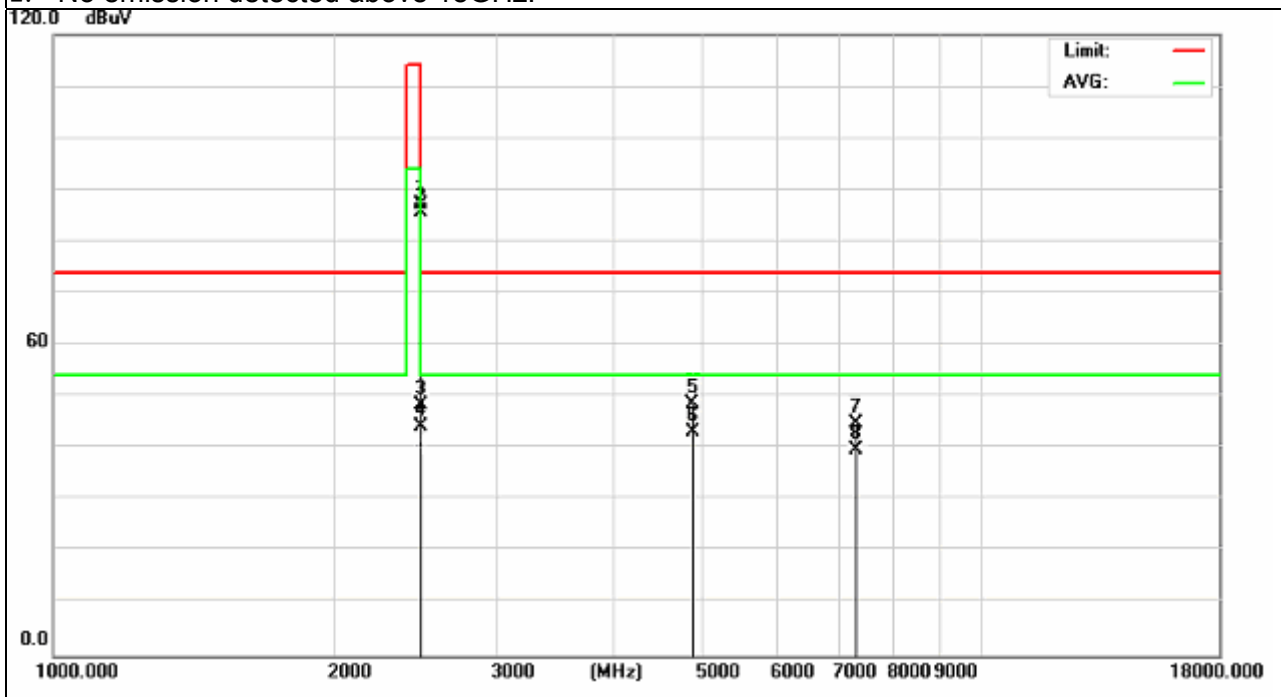


EUT :	RM Easirespond	Model Name :	RM Easirespond
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2011-08-4
Test Mode :	TX 2479MHz	Polarization :	Horizontal
Test Power :	DC 5V by USB		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2479.00	58.83	31.22	90.05	114.00	-23.95	peak
2479.00	55.01	31.22	86.23	94.00	-7.77	AVG
2483.50	17.29	32.69	49.98	74.00	-24.02	peak
2483.50	11.75	32.69	44.44	54.00	-9.56	AVG
4958.00	9.52	40.12	49.64	74.00	-24.36	peak
4958.00	3.13	40.12	43.25	54.00	-10.75	AVG
7437.00	-0.90	46.22	45.32	74.00	-28.68	peak
7437.00	-5.93	46.22	40.29	54.00	-13.71	AVG

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.

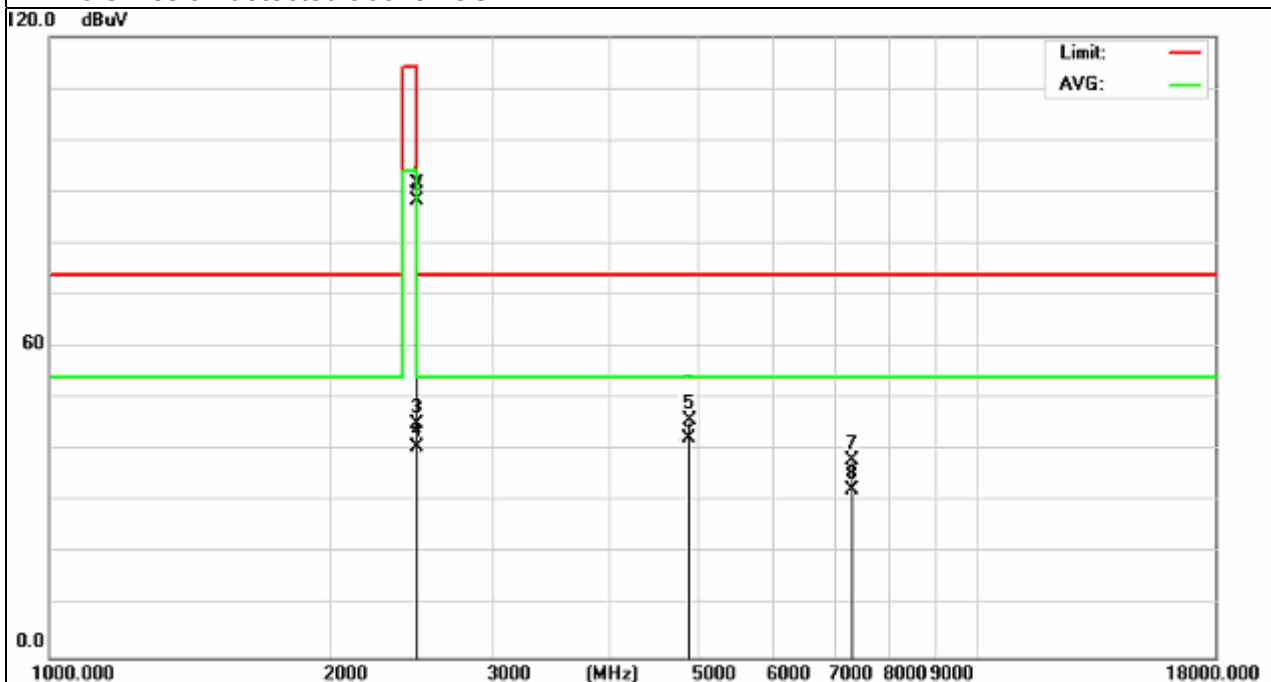


EUT :	RM Easirespond	Model Name :	RM Easirespond
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2011-08-4
Test Mode :	TX 2479MHz	Model Name :	Vertical
Test Power :	DC 5V by USB		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2479.00	60.23	31.22	91.45	114.00	-22.55	peak
2479.00	58.49	31.22	89.71	94.00	-4.29	AVG
2483.50	12.73	32.69	45.42	74.00	-28.58	peak
2483.50	8.62	32.69	41.31	54.00	-12.69	AVG
4958.00	6.34	40.12	46.46	74.00	-27.54	peak
4958.00	2.00	40.12	42.12	54.00	-11.88	AVG
7437.00	-6.78	46.22	39.44	74.00	-34.56	peak
7437.00	-12.91	46.22	33.31	54.00	-20.69	AVG

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz.



4. BANDWIDTH TEST

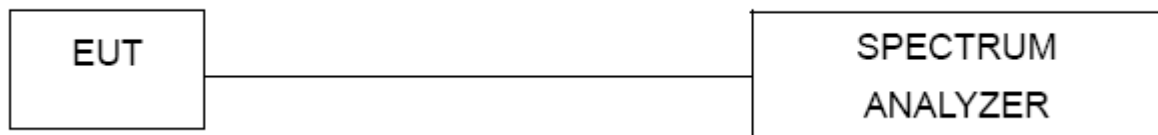
4.1 TEST PROCEDURE

- 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

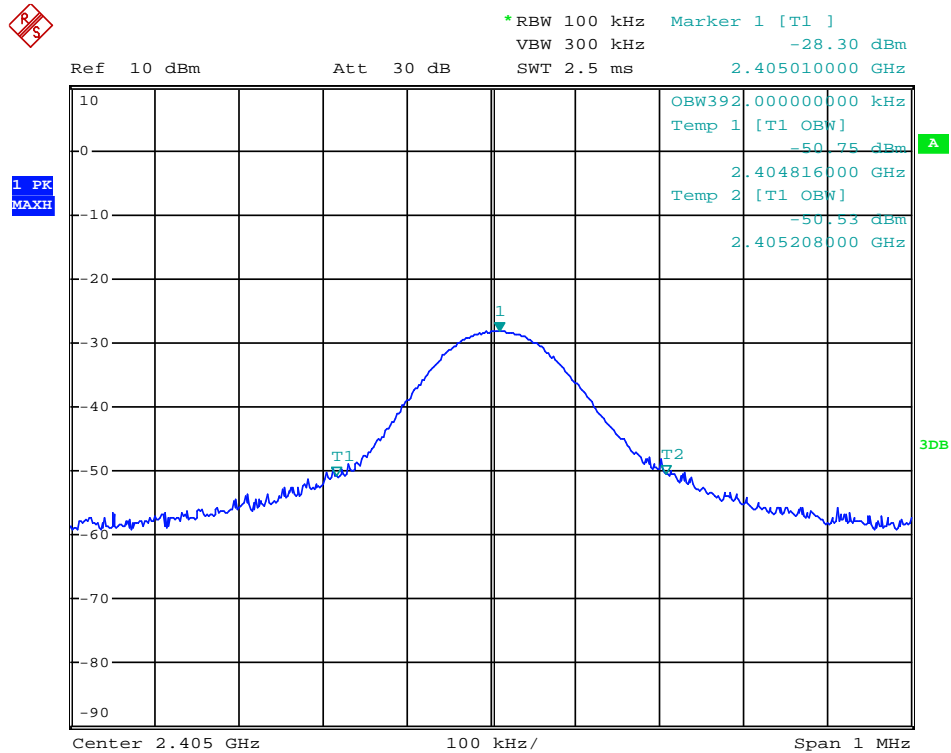


4.4 TEST RESULTS

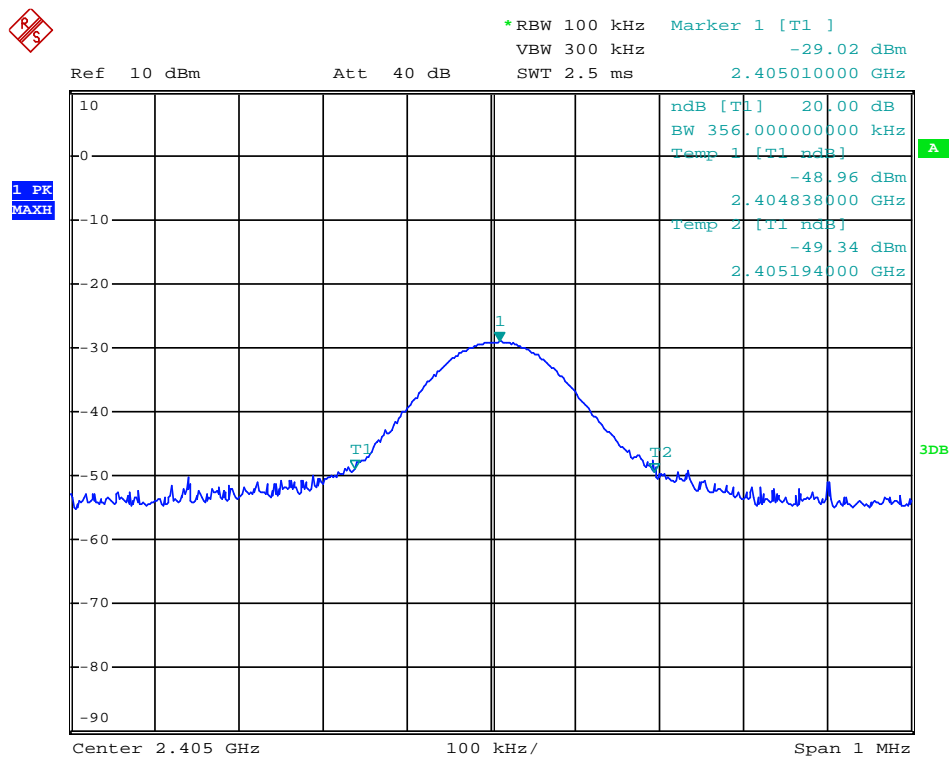
EUT :	RM Easirespond	Model Name :	RM Easirespond
Temperature :	26 °C	Relative Humidity :	53%
Pressure :	1020 hPa	Test Power :	DC 5V by USB
Test Mode :	TX CH 5/42/79		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% Bandwidth (MHz)
CH5	2405	0.392	0.356
CH42	2442	0.416	0.320
CH79	2479	0.426	0.392

The Lowest Channel:2405MHz

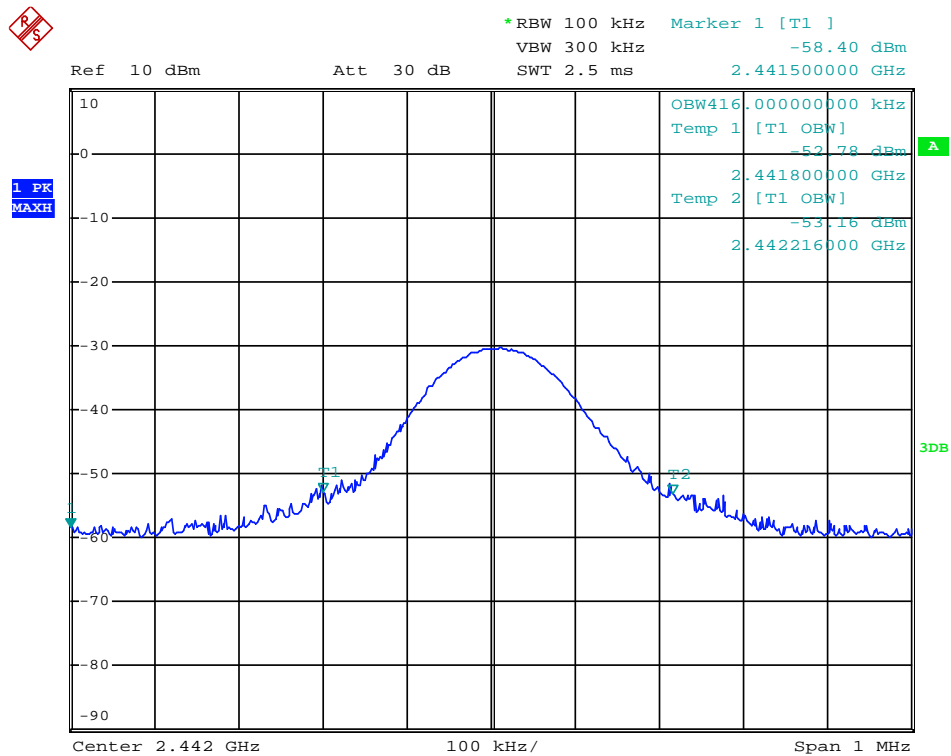


Date: 9.AUG.2011 11:47:25

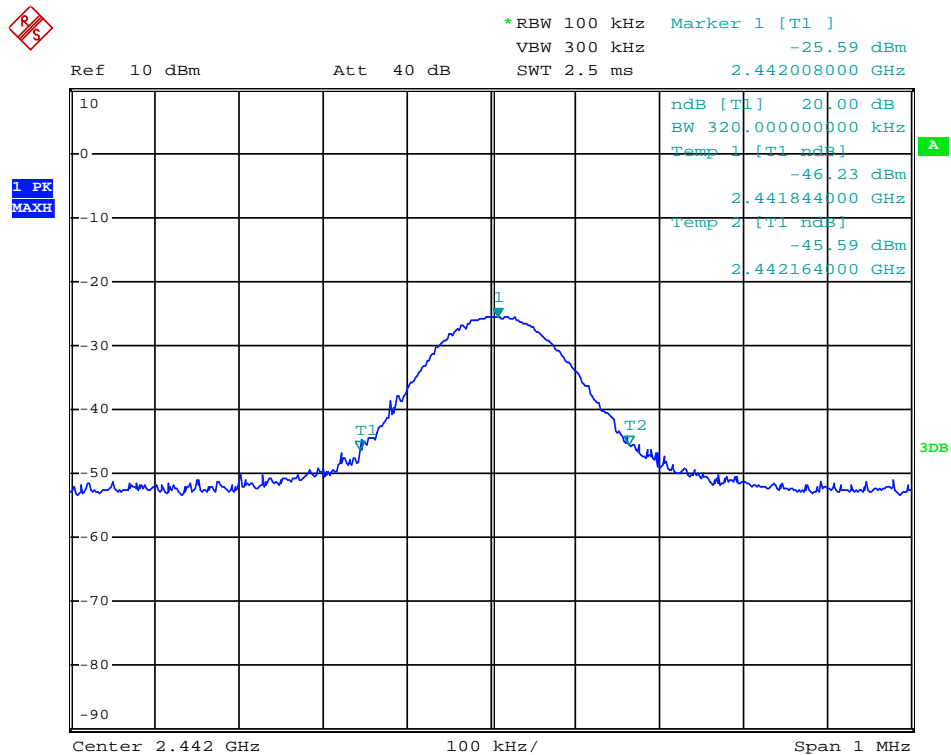


Date: 9.AUG.2011 12:19:33

The Lowest Channel:2442MHz

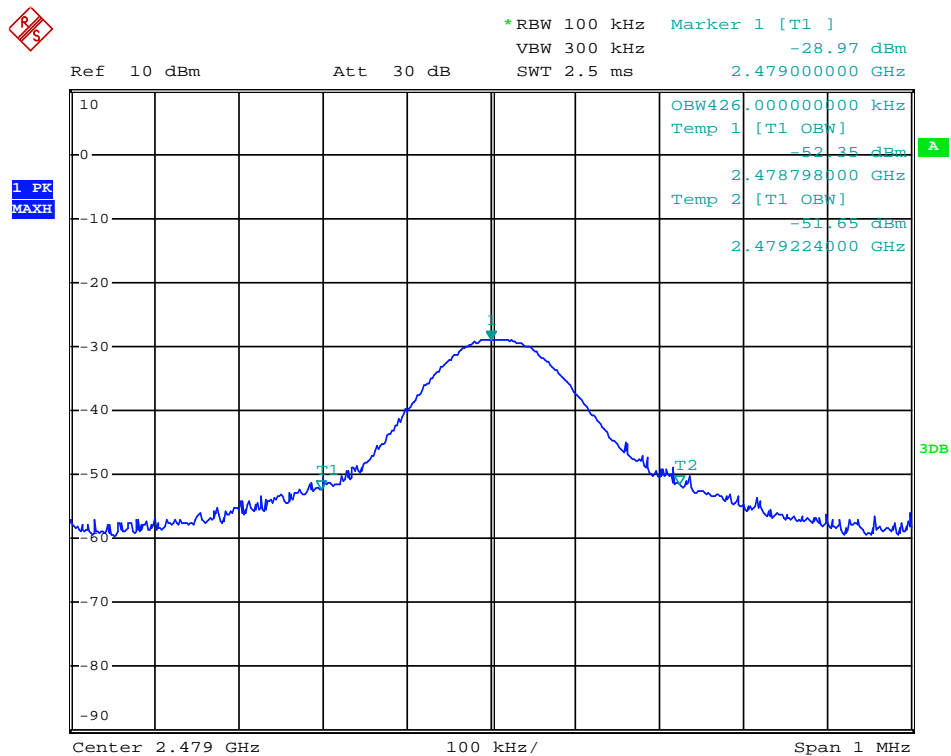


Date: 9.AUG.2011 11:53:14

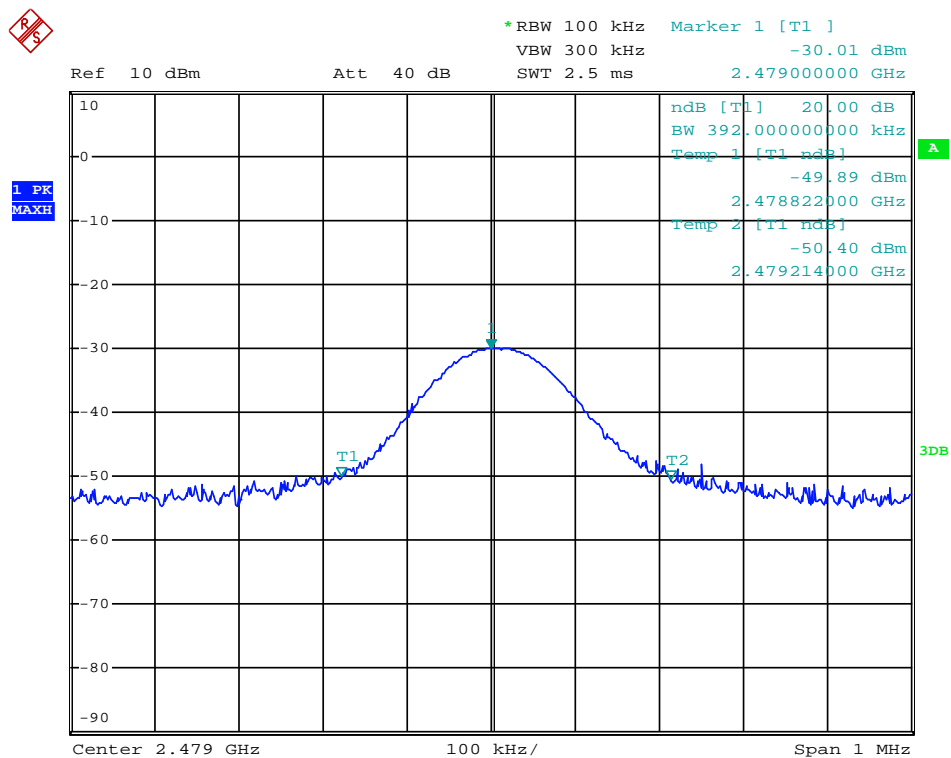


Date: 9.AUG.2011 12:17:01

The Lowest Channel:2479MHz



Date: 9.AUG.2011 12:22:24



Date: 9.AUG.2011 12:20:58