

Prüfbericht-Nr.: <i>Test Report No.:</i>	17037990 001	Auftrags-Nr.: <i>Order No.:</i>	164010423	Seite 1 von 58 <i>Page 1 of 58</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	09.01.2014	
Auftraggeber: <i>Client:</i>	Mae Tay Precision Co., Ltd. 6F., No.99, Ruihu St., Neihsu Dist., Taipei City, 114, Taiwan			
Prüfgegenstand: <i>Test item:</i>	USB Dongle			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	RG1102			
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109 FCC KDB Publication 447498 v05r01			
Wareneingangsdatum: <i>Date of receipt:</i>	N/A			
Prüfmuster-Nr.: <i>Test sample No.:</i>	N/A			
Prüfzeitraum: <i>Testing period:</i>	04.01.2014 - 23.01.2014			
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:  29.01.2014 Owen Tian/Project Manager Datum Name / Stellung Unterschrift <i>Date</i> <i>Name / Position</i> <i>Signature</i>		kontrolliert von / reviewed by:  29.01.2014 Winnie Hou/Technical Certifier Datum Name / Stellung Unterschrift <i>Date</i> <i>Name / Position</i> <i>Signature</i>		
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Details im vorherigen Abschnitt <i>Details in the previous section</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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TEST SUMMARY

5.1.1 FUNDAMENTAL & HARMONICS RADIATED EMISSION

RESULT: Pass

5.1.2 RADIATED EMISSIONS OUTSIDE OF THE BAND

RESULT: Pass

5.1.1 CONDUCTED EMISSIONS

RESULT: Pass

5.1.2 RADIATED EMISSIONS

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

F1, Bldg. A, Changyuan New Material Port
Keyuan Rd., Science & Industry Park, Nanshan
Shenzhen, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions & Receiver spurious emissions				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2015-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2015-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2015-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2015-01-07
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2015-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2015-01-07
RF Coaxial Cable	SUHNER	N-3m	No.8	2015-01-07
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2015-01-07
RF Coaxial Cable	SUHNER	N-6m	No.10	2015-01-07
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2015-01-07
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2015-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU1183540-01	3791	2015-01-07
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	2015-01-07
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-07
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-07
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2015-01-07
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2015-01-07
L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	2015-01-07
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2015-01-07
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015-01-07
RF Coaxial Cable	SUHNER	N-2m	No.3	2015-01-07
Radiated Emission				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2015-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2015-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2015-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2015-01-07
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2015-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2015-01-07
RF Coaxial Cable	SUHNER	N-3m	No.8	2015-01-07
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2015-01-07
RF Coaxial Cable	SUHNER	N-6m	No.10	2015-01-07
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2015-01-07
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2015-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU1183540-01	3791	2015-01-07

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	$< \pm 0.60$ dB
Radiated emission of transmitter, valid up to 12.75 GHz	$< \pm 4.42$ dB
Radiated emission of receiver, valid up to 12.75 GHz	$< \pm 4.42$ dB
Conducted Emission	$< \pm 2.23$ dB
Radiated Emission	$< \pm 4.42$ dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, P.R. China and is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a wireless USB dongle used with wireless keyboard. It operates at 2.4GHz ISM frequency band.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	USB Dongle
Type Designation	RG1102
FCC ID	2AAIL-RG1102
Operating Frequency band	2408 – 2474MHz
Channel separation	2MHz
Channel number	34
Extreme Temperature Range	-20~+45°C
Operation Voltage	DC 5V (via USB port)
Modulation	FSK
Antenna Gain	3.27dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, wireless mode
 - 1. Trnasmitting
 - 2. Receiving
- B. On, transfer data with PC via USB port
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

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3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
Notebook	Lenovo	4290-RT8	R9-FW93G
Printer	HP	HP laserjet 1015	CNFG030424

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

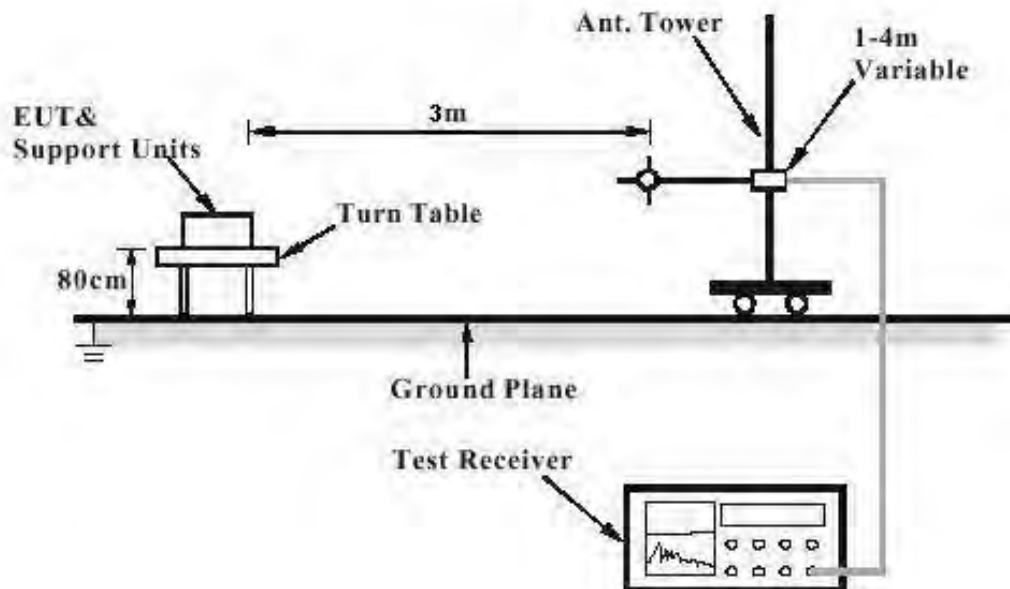
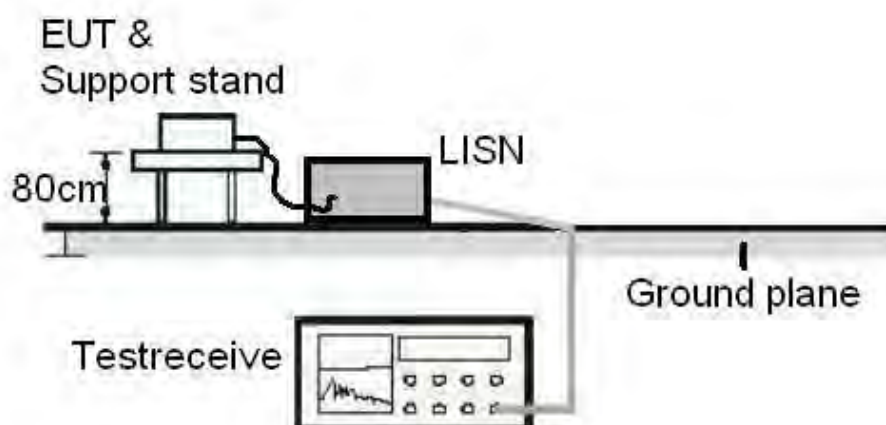


Diagram of Measurement Equipment Configuration for Conduction Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Fundamental & Harmonics Radiated Emission

RESULT:
Pass

Date of testing : 2014-01-04
 Test standard : FCC part 15.249(a)
 Basic standard : ANSI C63.4: 2003
 Limits : FCC part 15.249(a)
 Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test channel : Low/ Middle/ High
 Input voltage : DC 5V (via USB port)
 Operation mode : A.1
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 4: Polarization of the measurement for the larger power level channel 2440MHz: Vertical

Test conditions		Fundamental Frequency		2 nd Harmonic Frequency	
		2440MHz		4948MHz	
T _{nom} (25°C)	Unit	(dBµV/m)	(mV/m)	(dBµV/m)	(µV/m)
	Horizontal	82.75	13.72	48.05	252.64
	Vertical	85.10	17.99	48.48	265.46
Limit		94	50	54	500

The final measurement for frequencies below 1000MHz is performed with Quasi Peak detector; the final measurement for frequencies above 1000MHz is performed with Average detector.

The worst case was shown in above Table 5.

Disturbance other than those mentioned are small or not detectable.

For details refer to following test plot.

Test Plot of fundamental & harmonics radiated emission



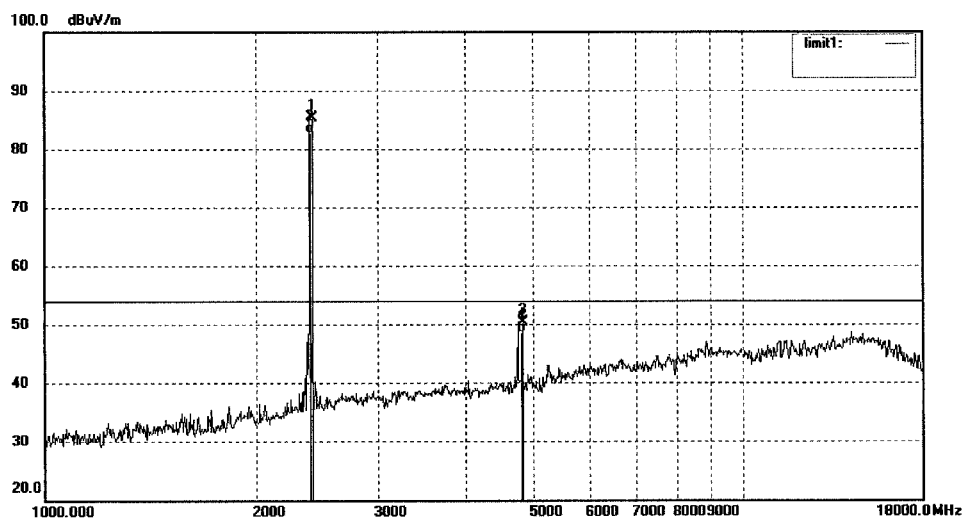
ACCURATE TECHNOLOGY CO., LTD.
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: Ian #1948
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Dongle
 Mode: TX 2408MHz
 Model: MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
 Power Source: DC 5V
 Date: 14/01/04/
 Time: 11/57/21
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.024	92.69	-7.44	85.25	/	/	peak			
2	2408.024	90.19	-7.44	82.75	/	/	AVG			
3	4816.051	50.52	-0.23	50.29	74.00	-23.71	peak			
4	4816.051	48.64	-0.23	48.41	54.00	-5.59	AVG			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

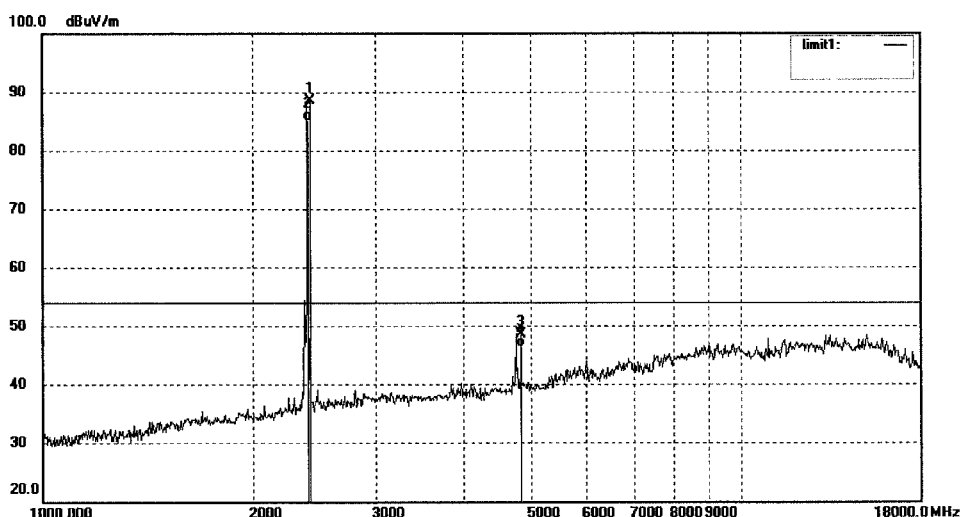
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1949
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2408MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 12/10/43
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.025	95.86	-7.44	88.42	/	/	peak			
2	2408.025	92.54	-7.44	85.10	/	/	AVG			
3	4816.045	48.67	-0.23	48.44	74.00	-25.56	peak			
4	4816.045	46.59	-0.23	46.36	54.00	-7.64	AVG			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

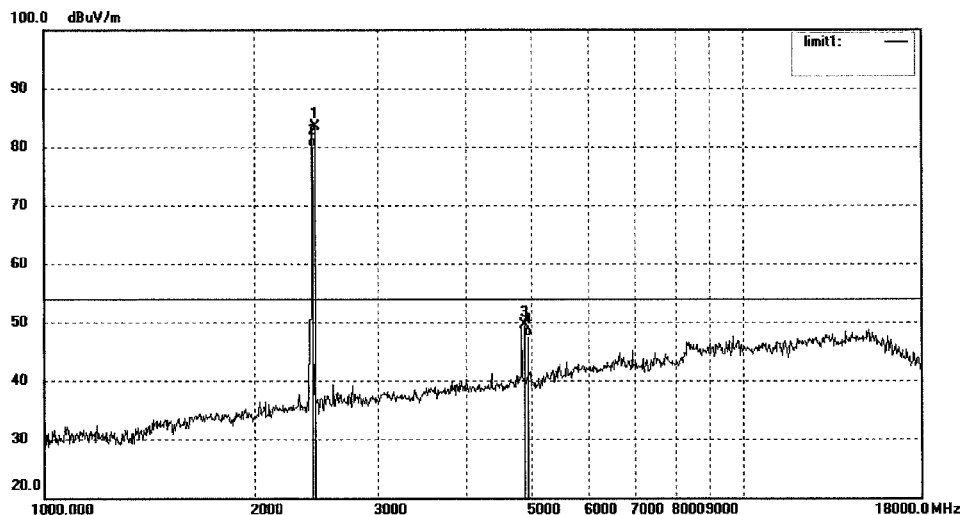
Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: Ian #1951
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Dongle
 Mode: TX 2440MHz
 Model: MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
 Power Source: DC 5V
 Date: 14/01/04/
 Time: 12/32/43
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.027	90.79	-7.35	83.44	/	/	peak			
2	2440.027	87.34	-7.35	79.99	/	/	AVG			
3	4880.055	49.39	0.13	49.52	74.00	-24.48	peak			
4	4880.055	47.46	0.13	47.59	54.00	-6.41	AVG			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

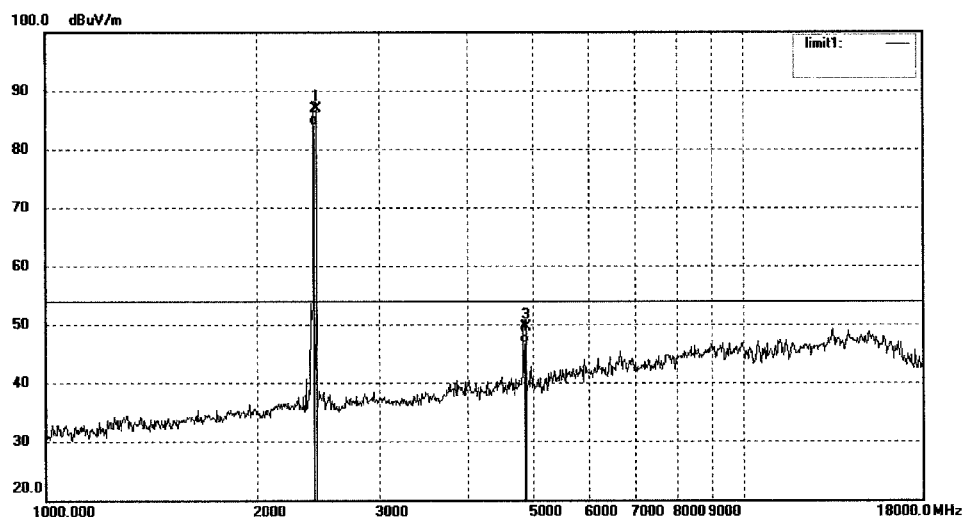
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1950
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2440MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 12/21/08
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.032	94.25	-7.36	86.89	/	/	peak			
2	2440.032	91.52	-7.36	84.16	/	/	AVG			
3	4880.054	49.32	0.13	49.45	74.00	-24.55	peak			
4	4880.054	46.59	0.13	46.72	54.00	-7.28	AVG			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

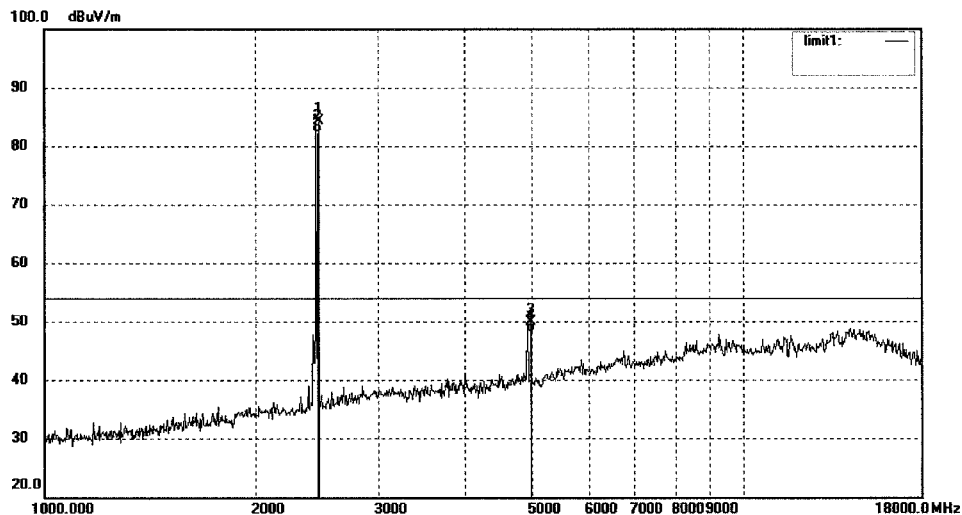
Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: Ian #1952
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2474MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 14/01/04/
Time: 12/44/19
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2474.048	91.75	-7.37	84.38	/	/	peak			
2	2474.048	89.67	-7.37	82.30	/	/	AVG			
3	4948.086	49.43	0.47	49.90	74.00	-24.10	peak			
4	4948.086	47.58	0.47	48.05	54.00	-5.95	AVG			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

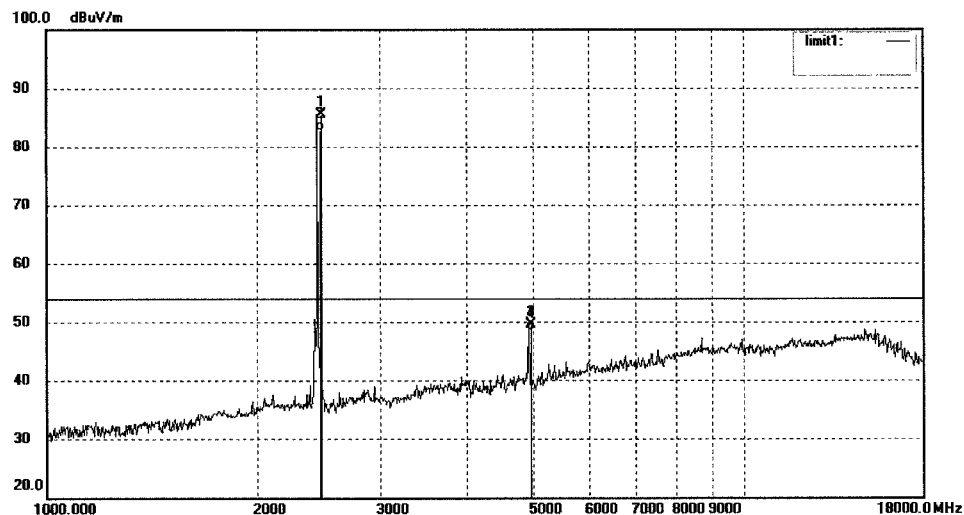
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1953
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Dongle
 Mode: TX 2474MHz
 Model: MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
 Power Source: DC 5V
 Date: 14/01/04/
 Time: 12/54/00
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2474.051	92.83	-7.37	85.46	/	/	peak			
2	2474.051	90.15	-7.37	82.78	/	/	AVG			
3	4948.075	49.12	0.47	49.59	74.00	-24.41	peak			
4	4948.075	48.01	0.47	48.48	54.00	-5.52	AVG			

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5.1.2 Radiated emissions outside of the band**RESULT:****Pass**

Date of testing	:	2014-01-06
Test standard	:	FCC Part 15.209(a) FCC Part 15.249(d)
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.009 – 25000MHz *
Limits	:	FCC Part 15.209(a) FCC Part 15.249(d)
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

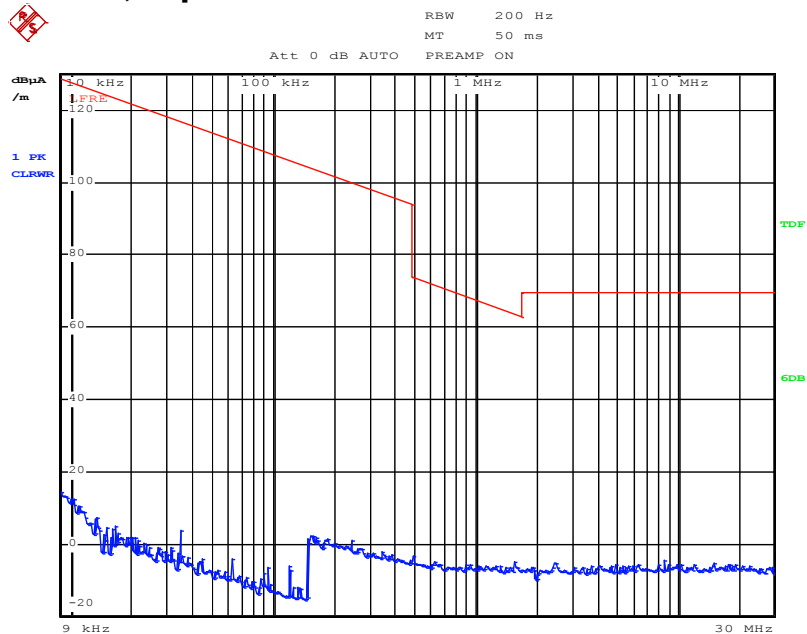
Test channel	:	Low/ Middle/ High
Input voltage	:	DC 5V (via USB port)
Operation mode	:	A.1
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

*- The EUT's highest frequency generated and used is 2474MHz, hence the highest scan frequency is up to 25GHz.

For details refer to following test plot.

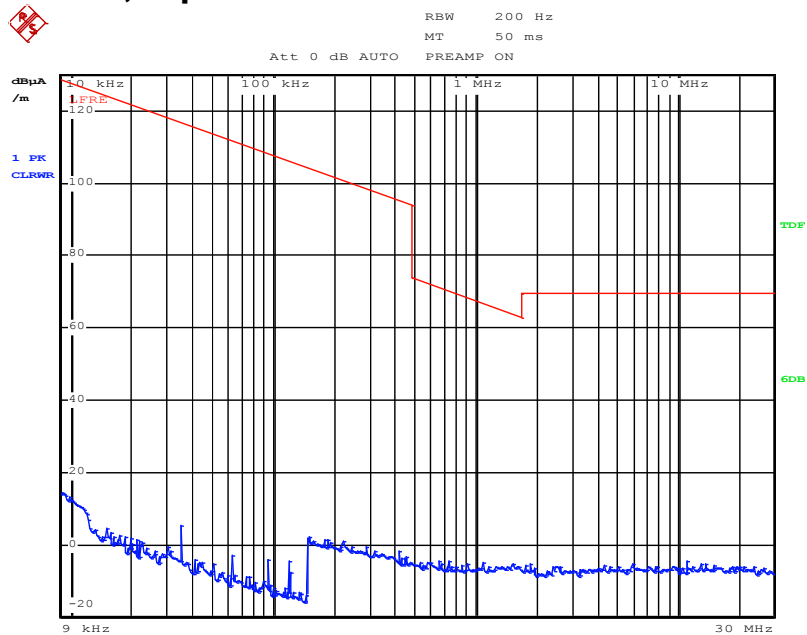
Test Plot of radiated emissions outside of the band

Low channel, X polarization:



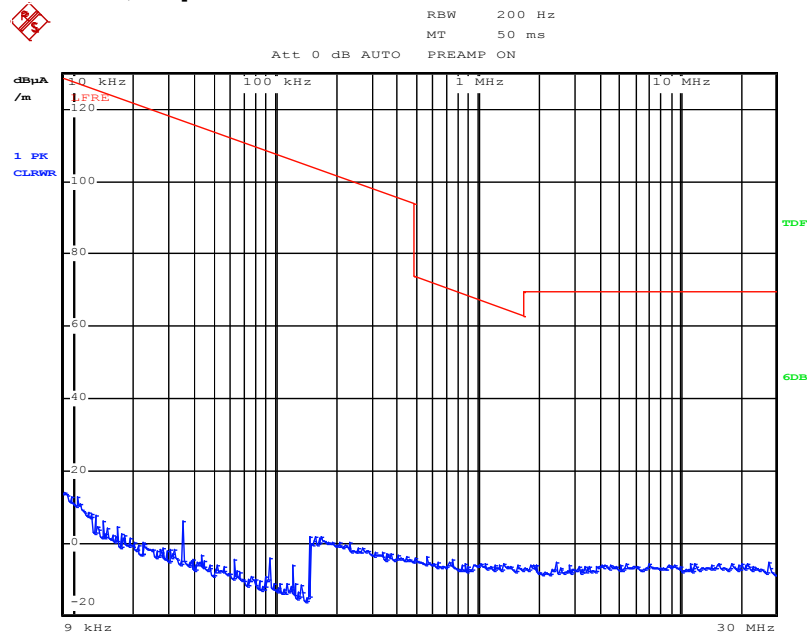
Date: 6.JAN.2014 10:51:38

Low channel, Y polarization:



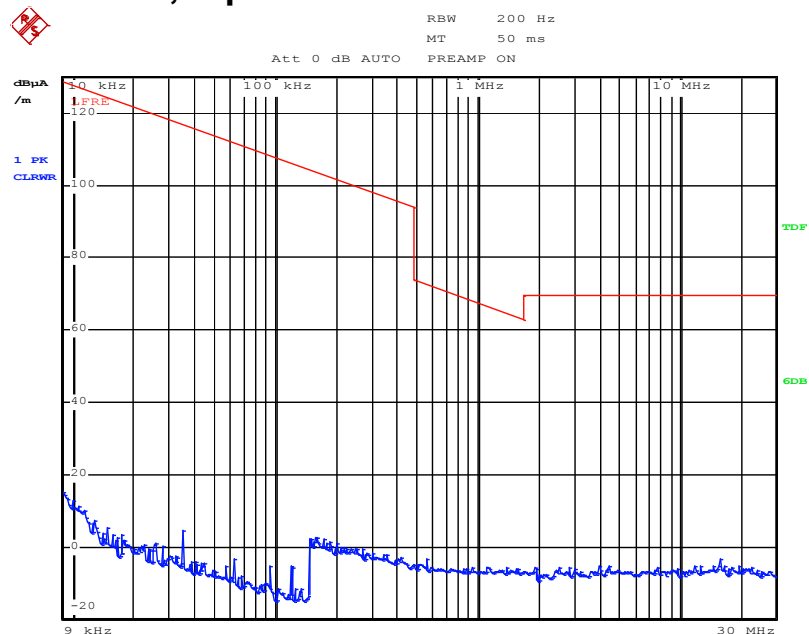
Date: 6.JAN.2014 10:58:52

Low channel, Z polarization:

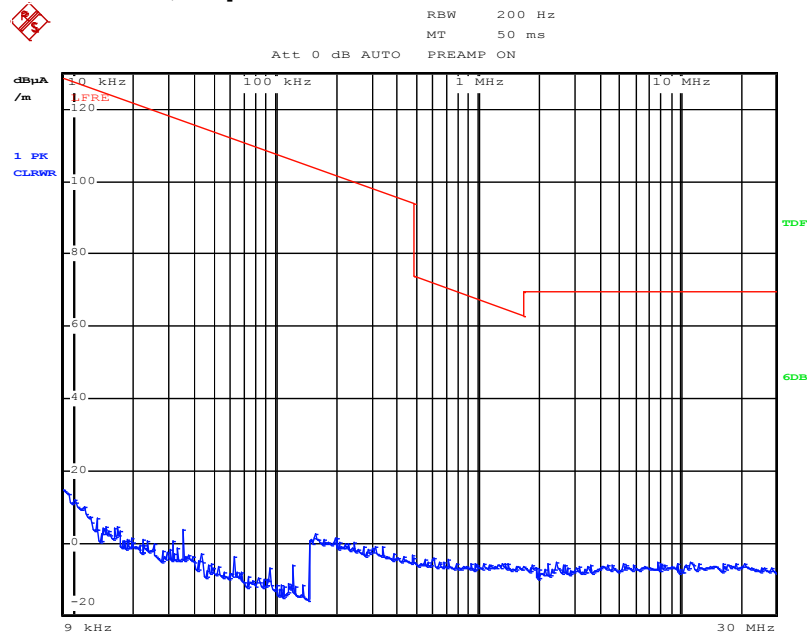


Date: 6.JAN.2014 11:01:08

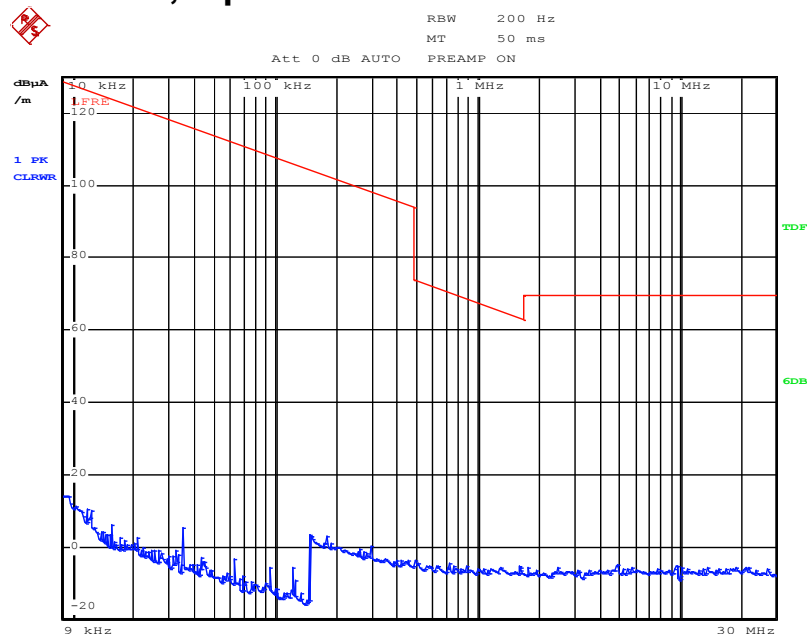
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Date: 6.JAN.2014 11:03:19

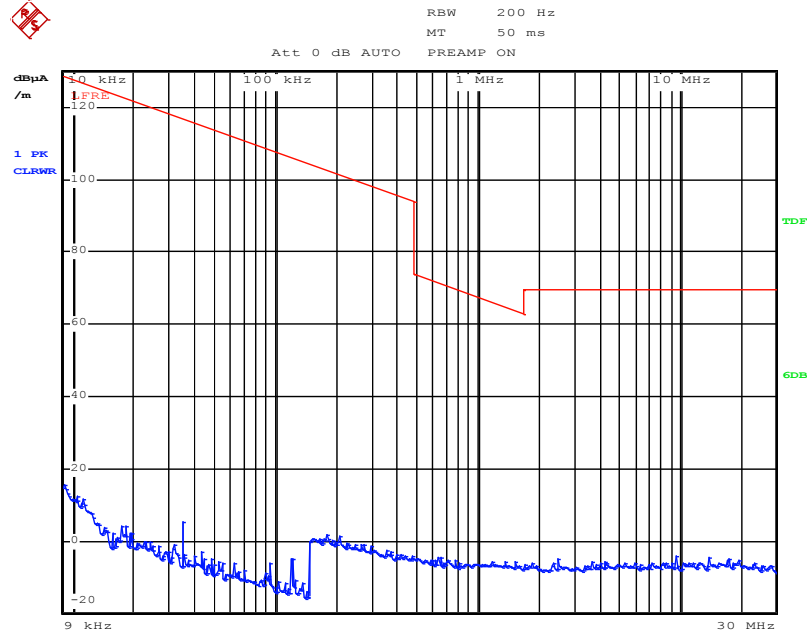
Middle channel, Y polarization:


Date: 6.JAN.2014 11:05:29

Middle channel, Z polarization:


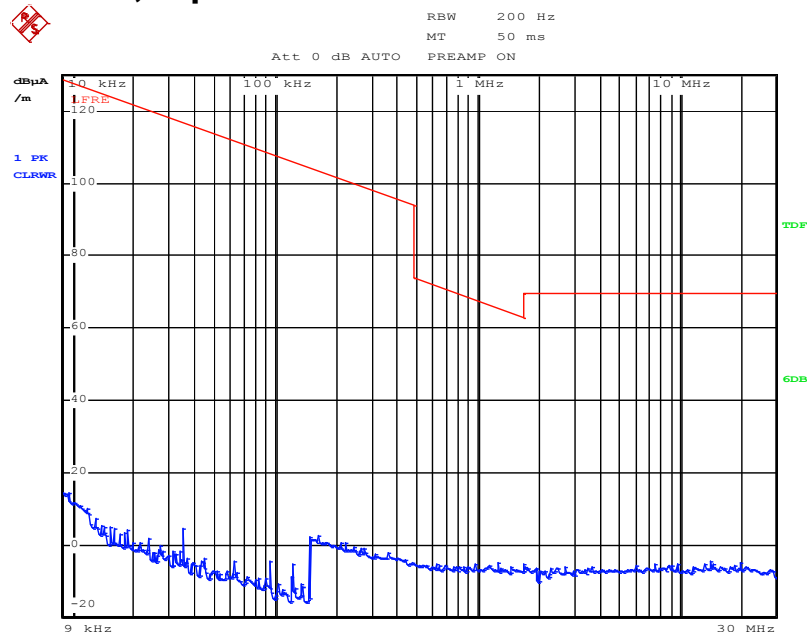
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High channel, X polarization:



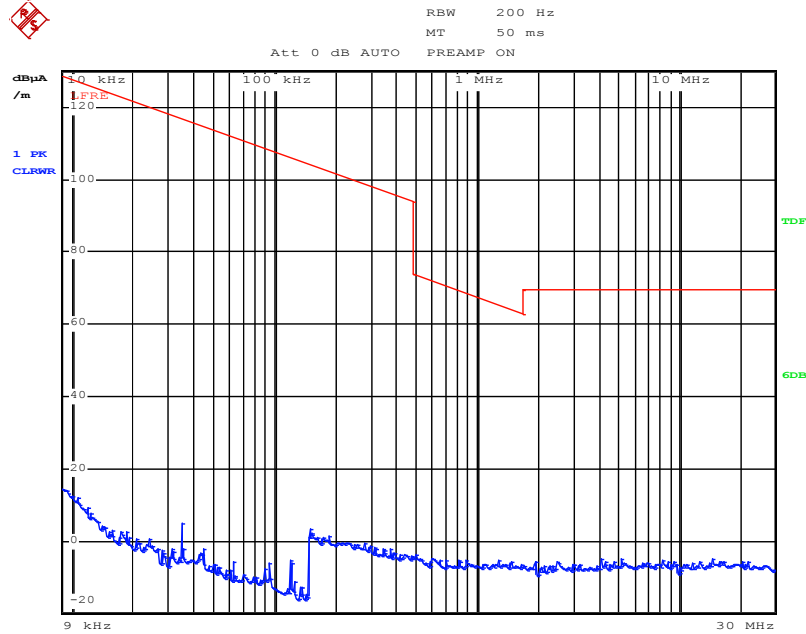
Date: 6.JAN.2014 11:09:50

High channel, Y polarization:



Date: 6.JAN.2014 11:12:01

High channel, Z polarization:



Date: 6.JAN.2014 11:14:10


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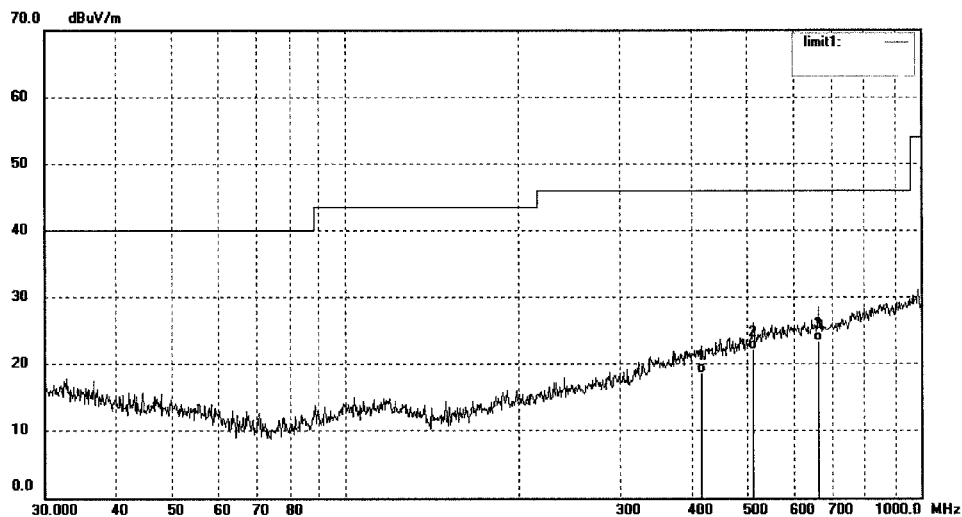
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1936
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2408MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 14/01/04/
Time: 10/15/40
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	416.9108	24.96	-6.30	18.66	46.00	-27.34	QP			
2	511.1487	26.66	-4.52	22.14	46.00	-23.86	QP			
3	662.9275	25.57	-2.21	23.36	46.00	-22.64	QP			


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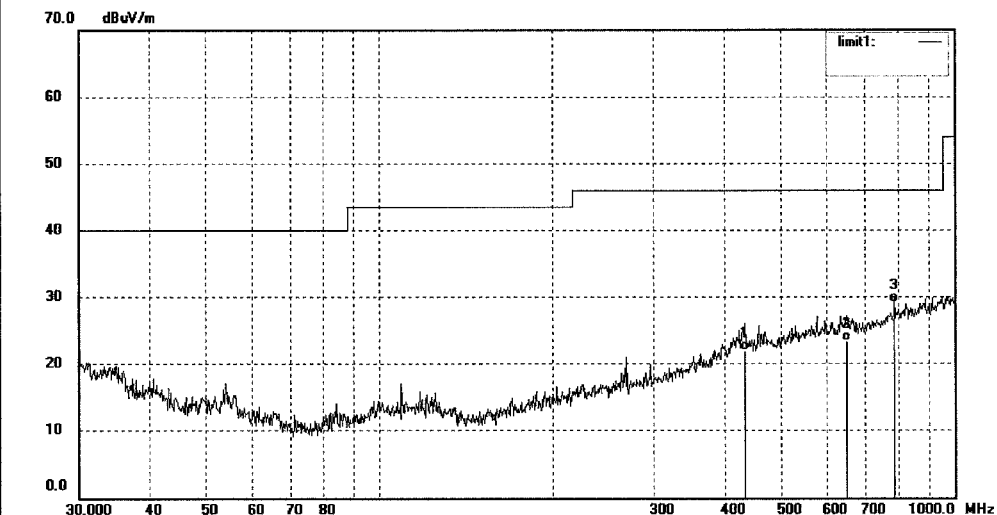
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1937
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2408MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 10/23/30
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	431.8197	27.93	-6.01	21.92	46.00	-24.08	QP			
2	649.0983	25.75	-2.46	23.29	46.00	-22.71	QP			
3	789.4749	29.31	-0.18	29.13	46.00	-16.87	QP			


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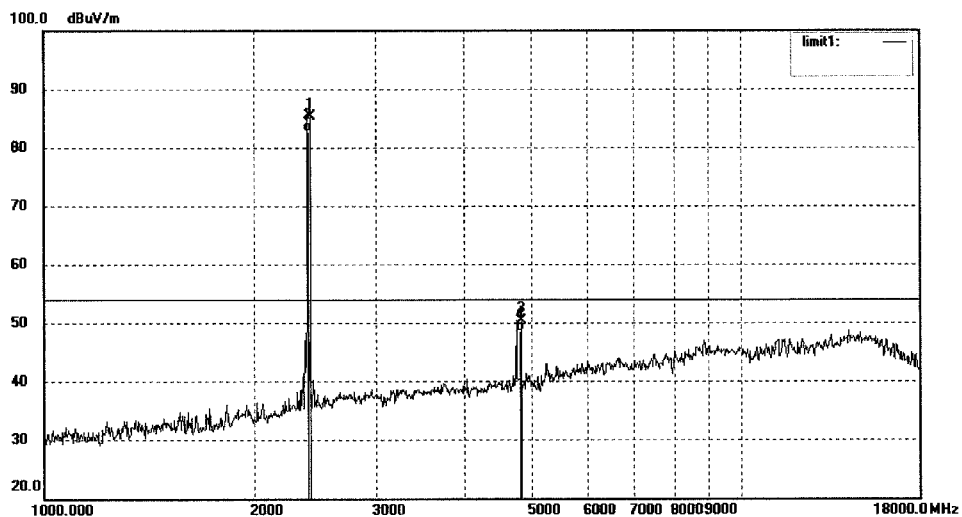
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1948
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2408MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 14/01/04/
Time: 11/57/21
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.024	92.69	-7.44	85.25	/	/	peak			
2	2408.024	90.19	-7.44	82.75	/	/	AVG			
3	4816.051	50.52	-0.23	50.29	74.00	-23.71	peak			
4	4816.051	48.64	-0.23	48.41	54.00	-5.59	AVG			


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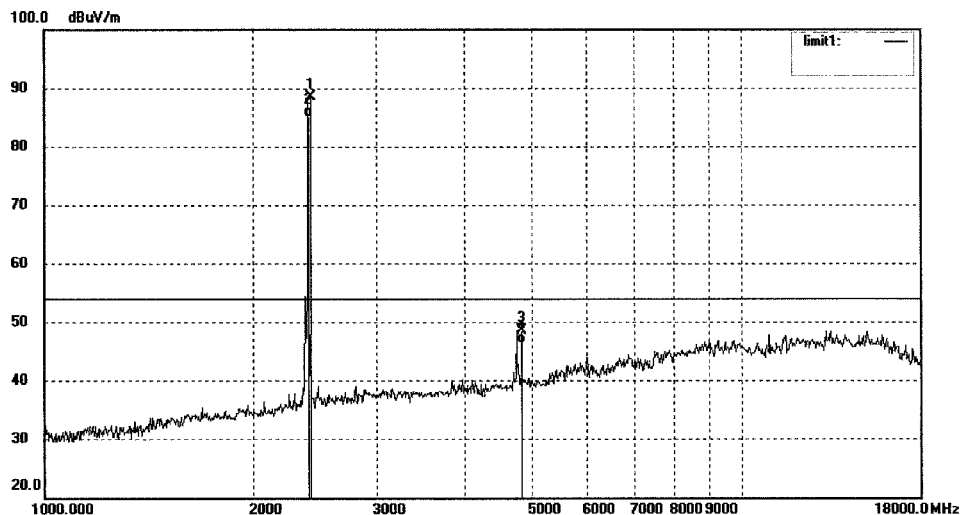
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1949
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2408MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 12/10/43
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.025	95.86	-7.44	88.42	/	/	peak			
2	2408.025	92.54	-7.44	85.10	/	/	AVG			
3	4816.045	48.67	-0.23	48.44	74.00	-25.56	peak			
4	4816.045	46.59	-0.23	46.36	54.00	-7.64	AVG			


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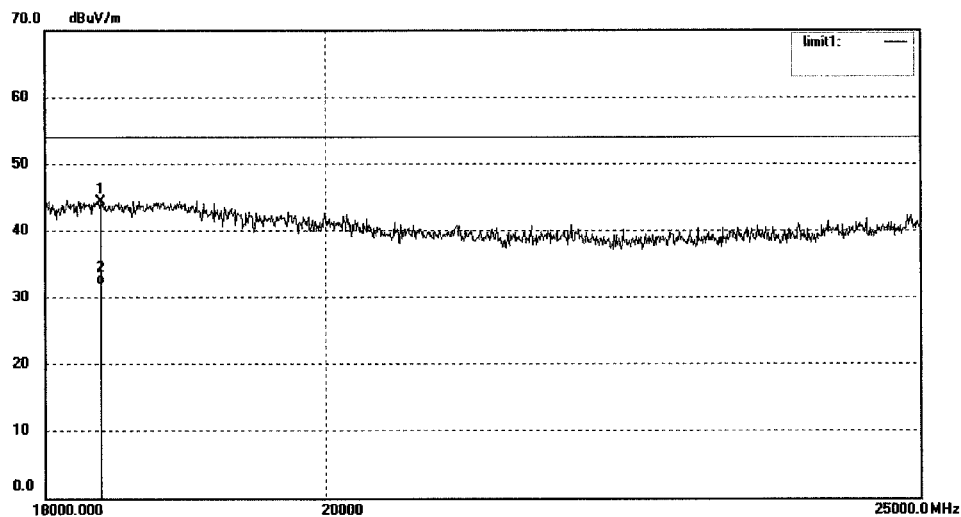
Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: Ian #1982
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2408MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 14/01/04/
Time: 17/43/46
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18377.167	27.47	16.93	44.40	74.00	-29.60	peak			
2	18377.167	15.03	16.93	31.96	54.00	-22.04	AVG			


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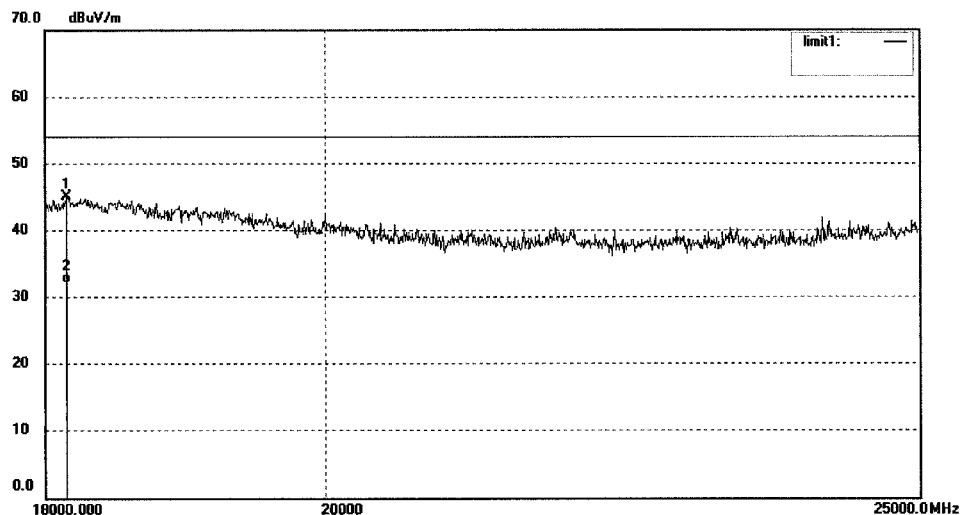
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1983
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2408MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 17/52/37
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18148.734	28.55	16.43	44.98	74.00	-29.02	peak			
2	18148.734	15.68	16.43	32.11	54.00	-21.89	AVG			


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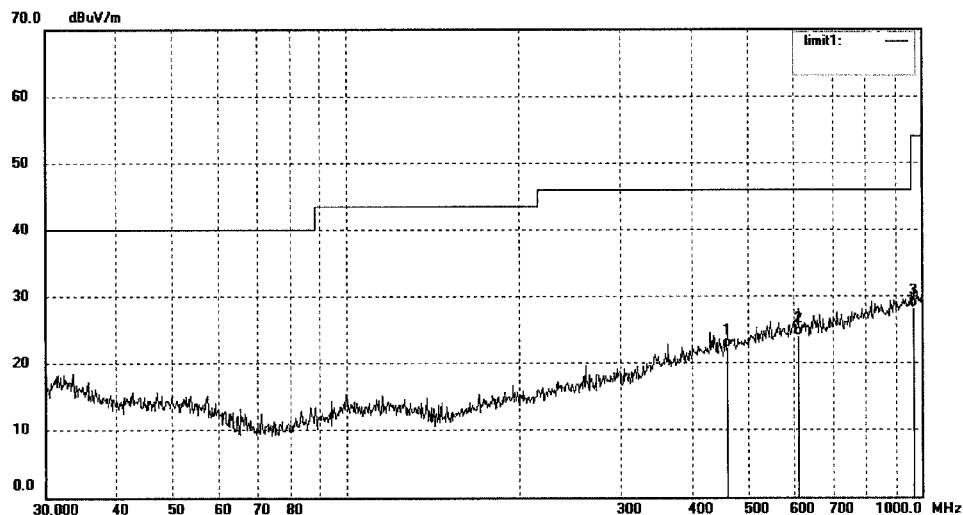
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1938
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2440MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 14/01/04/
Time: 10/30/34
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	458.3987	27.89	-5.64	22.25	46.00	-23.75	QP			
2	609.3176	26.92	-2.81	24.11	46.00	-21.89	QP			
3	968.8724	25.80	2.43	28.23	54.00	-25.77	QP			

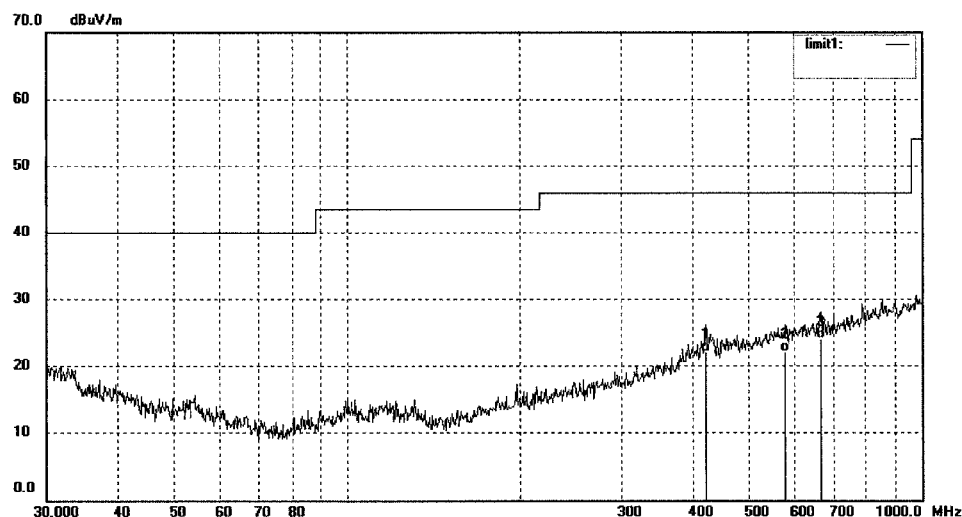

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 Job No.: Ian #1939
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Dongle
 Mode: TX 2440MHz
 Model: MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.

 Polarization: Vertical
 Power Source: DC 5V
 Date: 14/01/04/
 Time: 10/38/20
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	419.8509	28.27	-6.16	22.11	46.00	-23.89	QP			
2	576.0085	25.32	-3.16	22.16	46.00	-23.84	QP			
3	667.6023	26.25	-2.16	24.09	46.00	-21.91	QP			


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Site: 1# Chamber

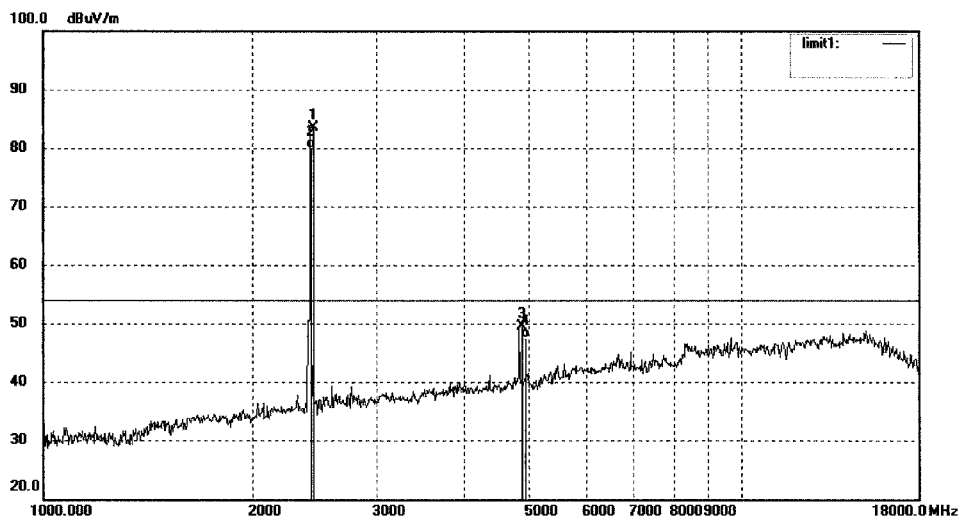
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1951
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2440MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 14/01/04/
Time: 12/32/43
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.027	90.79	-7.35	83.44	/	/	peak			
2	2440.027	87.34	-7.35	79.99	/	/	AVG			
3	4880.055	49.39	0.13	49.52	74.00	-24.48	peak			
4	4880.055	47.46	0.13	47.59	54.00	-6.41	AVG			


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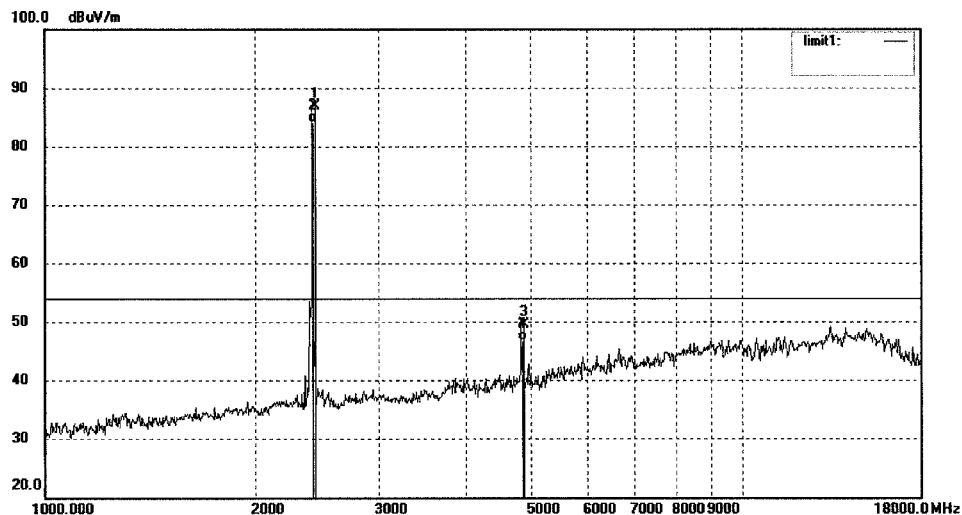
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1950
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2440MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 12/21/08
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.032	94.25	-7.36	86.89	/	/	peak			
2	2440.032	91.52	-7.36	84.16	/	/	AVG			
3	4880.054	49.32	0.13	49.45	74.00	-24.55	peak			
4	4880.054	46.59	0.13	46.72	54.00	-7.28	AVG			


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Site: 1# Chamber

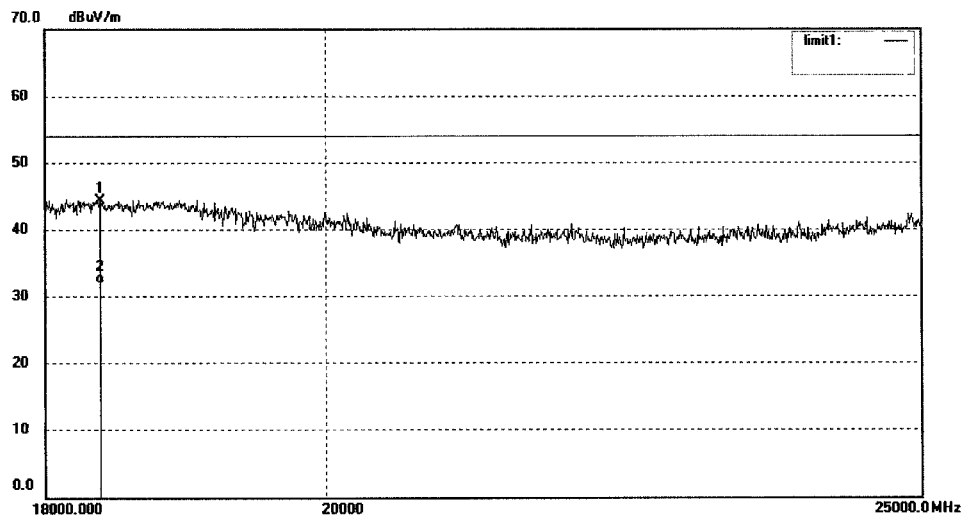
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1984
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2440MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 14/01/04/
Time: 18/01/46
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18377.167	27.47	16.93	44.40	74.00	-29.60	peak			
2	18377.167	15.03	16.93	31.96	54.00	-22.04	AVG			


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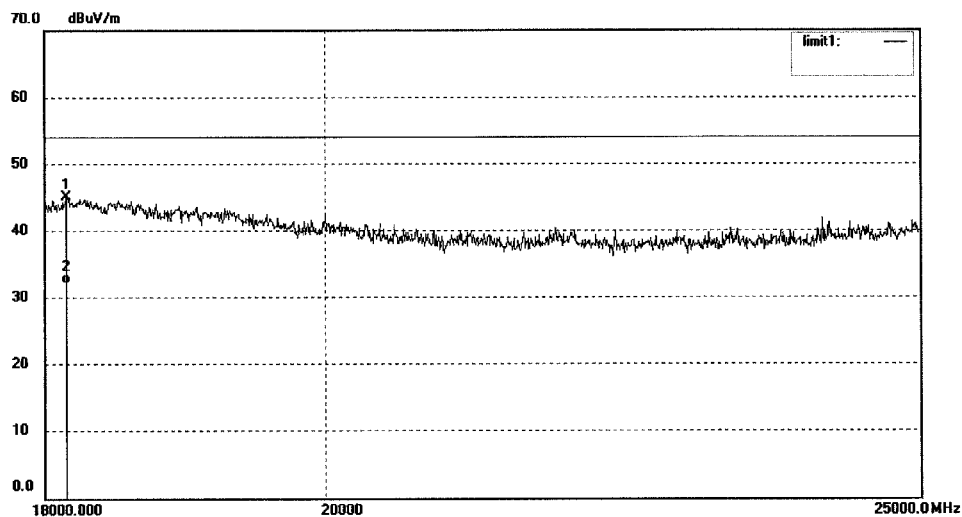
Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: Ian #1985
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2440MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 18/10/37
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18148.734	28.55	16.43	44.98	74.00	-29.02	peak			
2	18148.734	15.68	16.43	32.11	54.00	-21.89	AVG			


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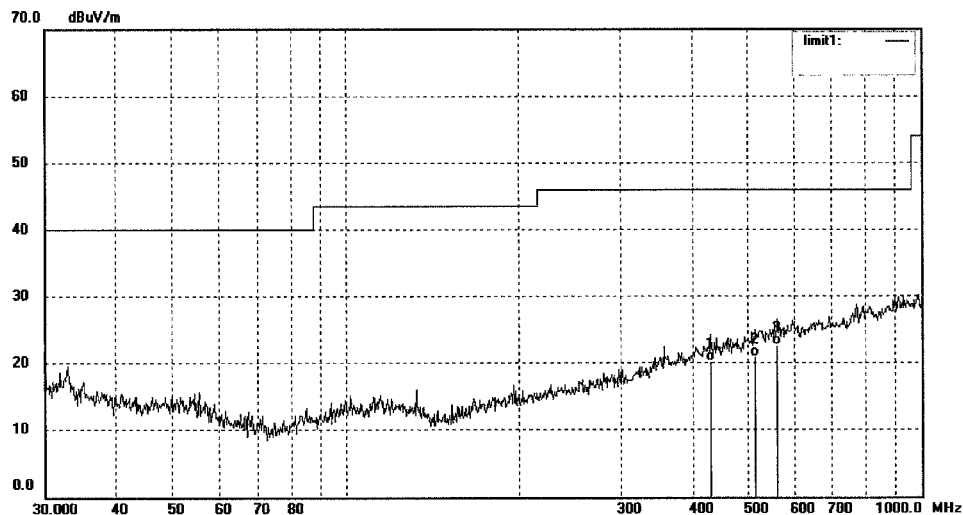
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1941
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2474MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 14/01/04/
Time: 10/55/01
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	430.3052	26.27	-6.03	20.24	46.00	-25.76	QP			
2	514.7532	25.47	-4.49	20.98	46.00	-25.02	QP			
3	562.0143	26.01	-3.43	22.58	46.00	-23.42	QP			


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Site: 1# Chamber

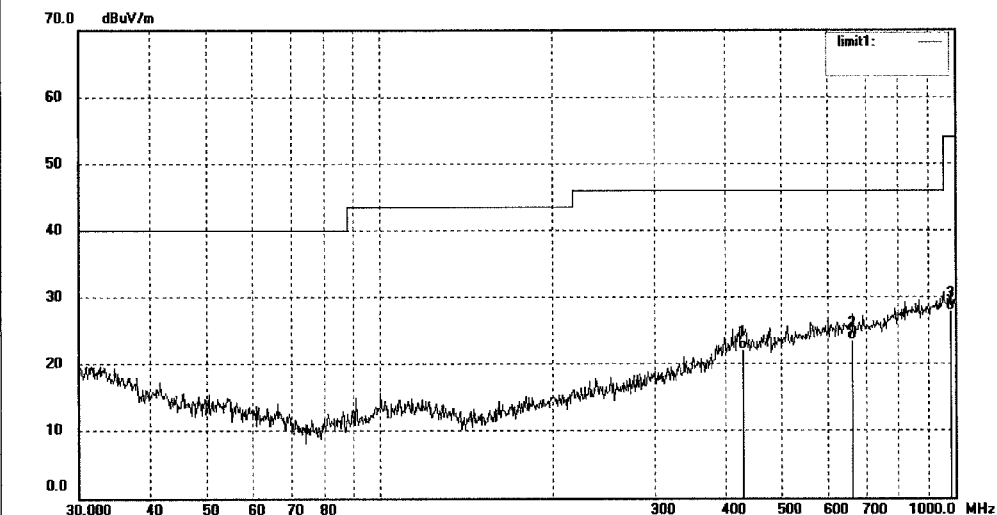
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1940
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2474MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 10/47/08
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	428.7959	28.16	-6.07	22.09	46.00	-23.91	QP			
2	665.2609	25.66	-2.19	23.47	46.00	-22.53	QP			
3	982.5855	25.28	2.63	27.91	54.00	-26.09	QP			


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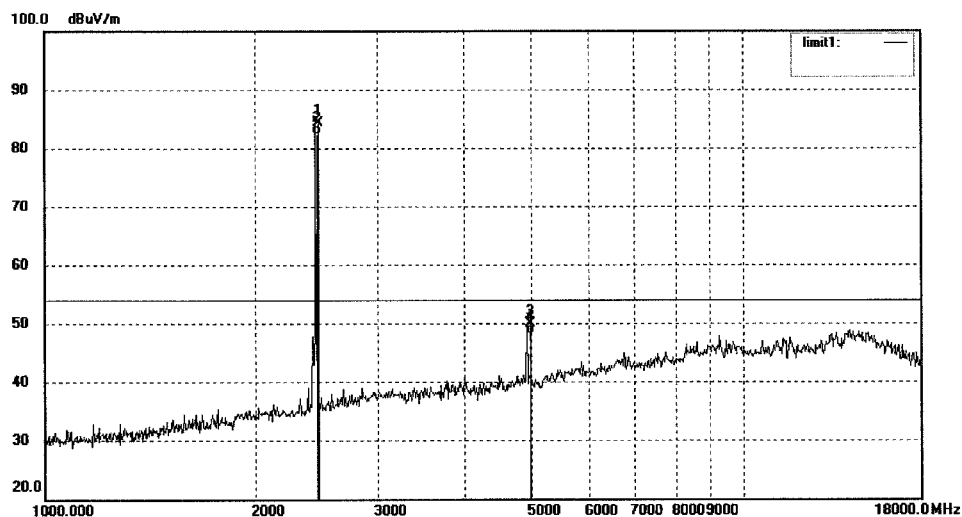
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1952
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Dongle
 Mode: TX 2474MHz
 Model: MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
 Power Source: DC 5V
 Date: 14/01/04/
 Time: 12/44/19
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2474.048	91.75	-7.37	84.38	/	/	peak			
2	2474.048	89.67	-7.37	82.30	/	/	AVG			
3	4948.086	49.43	0.47	49.90	74.00	-24.10	peak			
4	4948.086	47.58	0.47	48.05	54.00	-5.95	AVG			


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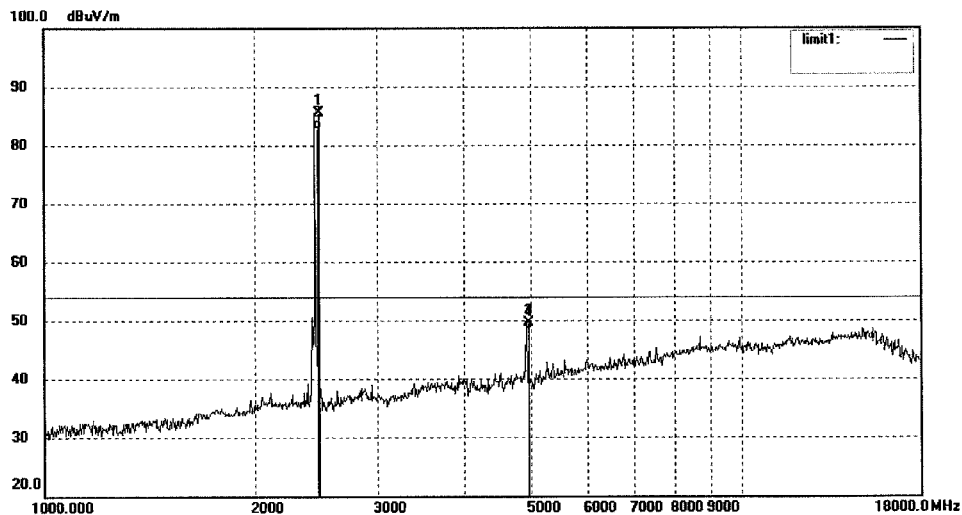
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1953
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2474MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 12/54/00
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2474.051	92.83	-7.37	85.46	/	/	peak			
2	2474.051	90.15	-7.37	82.78	/	/	AVG			
3	4948.075	49.12	0.47	49.59	74.00	-24.41	peak			
4	4948.075	48.01	0.47	48.48	54.00	-5.52	AVG			

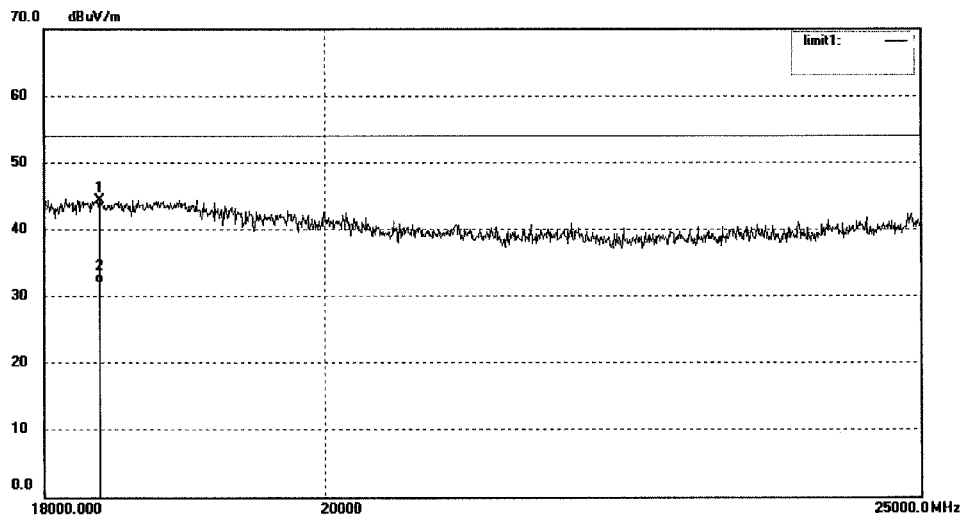

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: Ian #1986
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Dongle
 Mode: TX 2474MHz
 Model: MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.

 Polarization: Horizontal
 Power Source: DC 5V
 Date: 14/01/04/
 Time: 18/18/46
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18377.167	27.47	16.93	44.40	74.00	-29.60	peak			
2	18377.167	15.03	16.93	31.96	54.00	-22.04	AVG			


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Site: 1# Chamber

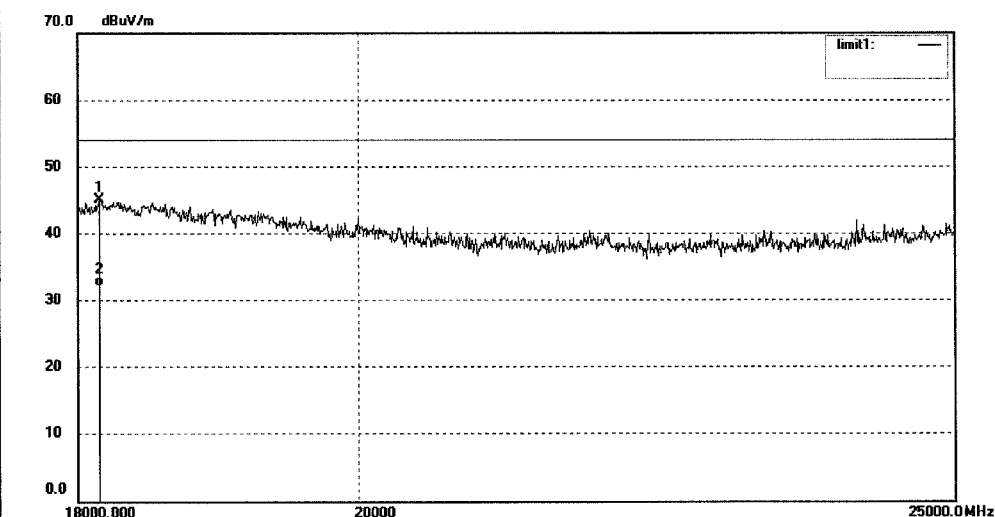
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1987
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2474MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 18/27/37
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18148.734	28.55	16.43	44.98	74.00	-29.02	peak			
2	18148.734	15.68	16.43	32.11	54.00	-21.89	AVG			

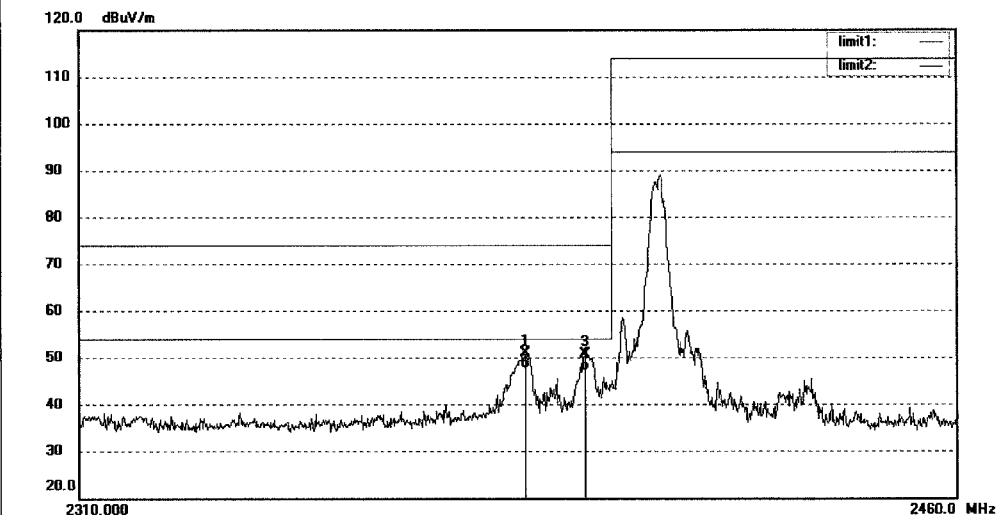

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 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: Ian #1963
 Standard: FCC Part 15 Band Edge (2.4G)
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Dongle
 Mode: TX 2408MHz
 Model: MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.

 Polarization: Horizontal
 Power Source: DC 5V
 Date: 14/01/04/
 Time: 14/20/20
 Engineer Signature: PEI
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2385.023	58.46	-7.56	50.90	74.00	-23.10	peak			
2	2385.023	55.07	-7.56	47.51	54.00	-6.49	AVG			
3	2395.420	58.03	-7.49	50.54	74.00	-23.46	peak			
4	2395.420	54.67	-7.49	47.18	54.00	-6.82	AVG			


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Site: 1# Chamber

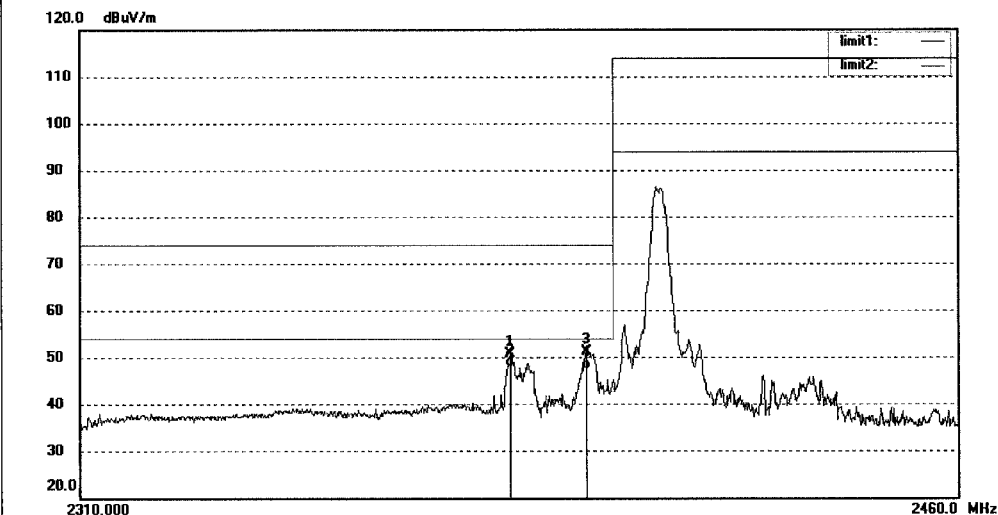
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1962
Standard: FCC Part 15 Band Edge (2.4G)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2408MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 14/08/53
Engineer Signature: PEI
Distance: 3m

Note:



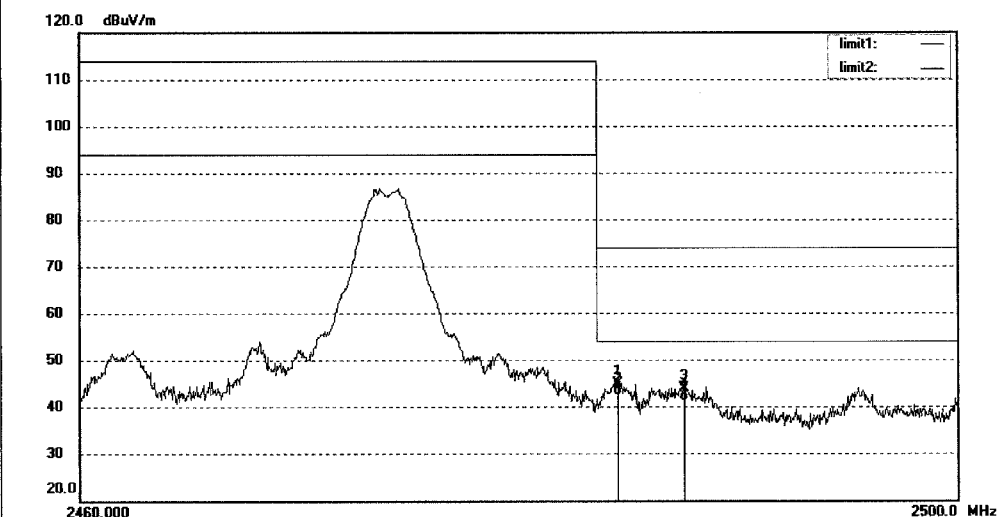
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2382.318	58.14	-7.58	50.56	74.00	-23.44	peak			
2	2382.318	55.34	-7.58	47.76	54.00	-6.24	AVG			
3	2395.420	58.64	-7.49	51.15	74.00	-22.85	peak			
4	2395.420	54.98	-7.49	47.49	54.00	-6.51	AVG			


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 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: Ian #1964	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 5V
Test item: Radiation Test	Date: 14/01/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 14/31/06
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model: MT-RG1102	
Manufacturer: Mae Tay Precision Co., Ltd.	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2484.452	52.28	-7.38	44.90	74.00	-29.10	peak			
2	2484.452	49.74	-7.38	42.36	54.00	-11.64	AVG			
3	2487.466	51.30	-7.38	43.92	74.00	-30.08	peak			
4	2487.466	48.57	-7.38	41.19	54.00	-12.81	AVG			


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Site: 1# Chamber

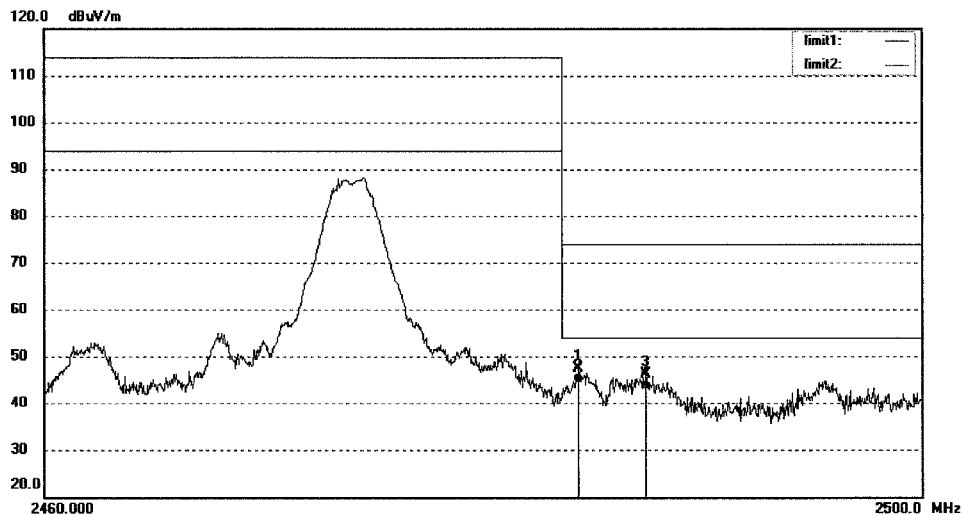
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian #1965
Standard: FCC Part 15 Band Edge (2.4G)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2474MHz
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/04/
Time: 14/42/30
Engineer Signature: PEI
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2484.252	54.84	-7.38	47.46	74.00	-26.54	peak			
2	2484.252	51.65	-7.38	44.27	54.00	-9.73	AVG			
3	2487.385	53.54	-7.38	46.16	74.00	-27.84	peak			
4	2487.385	50.17	-7.38	42.79	54.00	-11.21	AVG			

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5.1.1 Conducted emissions

RESULT:**Pass**

Date of testing	:	2014-01-07
Test standard	:	FCC Part 15.107 (a)
	:	FCC Part 15.207 (a)
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107(a)
	:	FCC Part 15.207 (a)
Kind of test site	:	Shield room

Test setup

Input voltage	:	AC 120V, 60Hz
Operation mode	:	A & B
Earthing	:	Not Connected
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

Test Plot of Conducted emissions

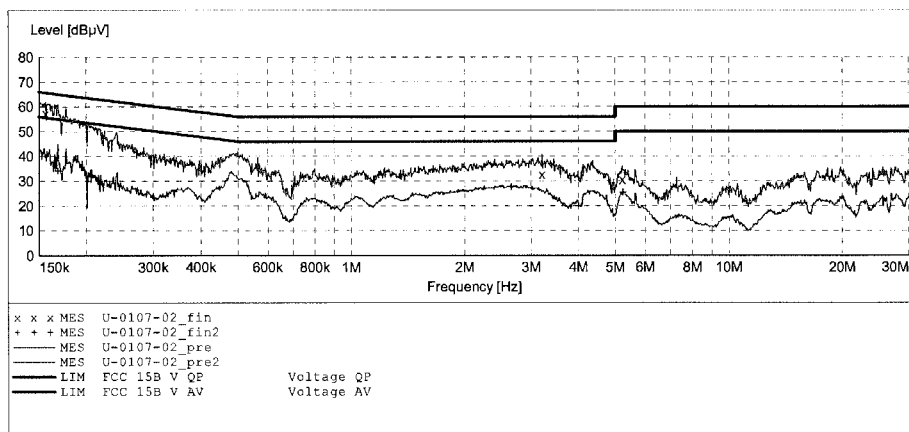
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Dongle M/N:MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.
 Operating Condition: Transmitting+Receiving
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/7/2014 / 9:12:09AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "U-0107-02_fin"

1/7/2014 9:22AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.156109	57.30	10.5	66	8.4	QP	L1	GND
3.205155	32.70	11.1	56	23.3	QP	L1	GND
5.216293	30.60	11.2	60	29.4	QP	L1	GND

MEASUREMENT RESULT: "U-0107-02_fin2"

1/7/2014 9:22AM

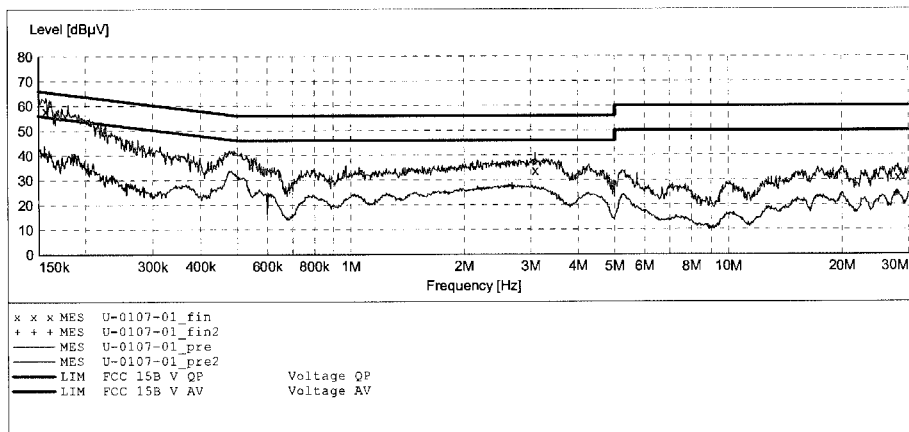
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.168410	34.20	10.5	55	20.8	AV	L1	GND
2.656834	27.60	11.0	46	18.4	AV	L1	GND
5.237158	25.30	11.2	50	24.7	AV	L1	GND

ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Dongle M/N:MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.
 Operating Condition: Transmitting+Receiving
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 1/7/2014 / 9:01:08AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "U-0107-01_fin"

1/7/2014 9:10AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.156734	58.00	10.5	66	7.6	QP	N	GND
3.079724	33.80	11.1	56	22.2	QP	N	GND
28.118280	31.00	11.5	60	29.0	QP	N	GND

MEASUREMENT RESULT: "U-0107-01_fin2"

1/7/2014 9:10AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155487	40.80	10.5	56	14.9	AV	N	GND
2.678132	27.40	11.0	46	18.6	AV	N	GND
27.894676	24.40	11.5	50	25.6	AV	N	GND

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Test Report No.

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5.1.2 Radiated emissions**RESULT:****Pass**

Date of testing	:	2014-01-23
Test standard	:	FCC Part 15.109
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	30 – 6000MHz *
Limits	:	FCC Part 15.109(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input voltage	:	AC 120V, 60Hz
Operation mode	:	B
Earthing	:	Not Connected
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

*- The EUT's highest frequency generated and used is less than 1000MHz, hence the highest scan frequency is up to 6GHz only.

For details refer to following test plot.

Test Plot of Radiated emissions



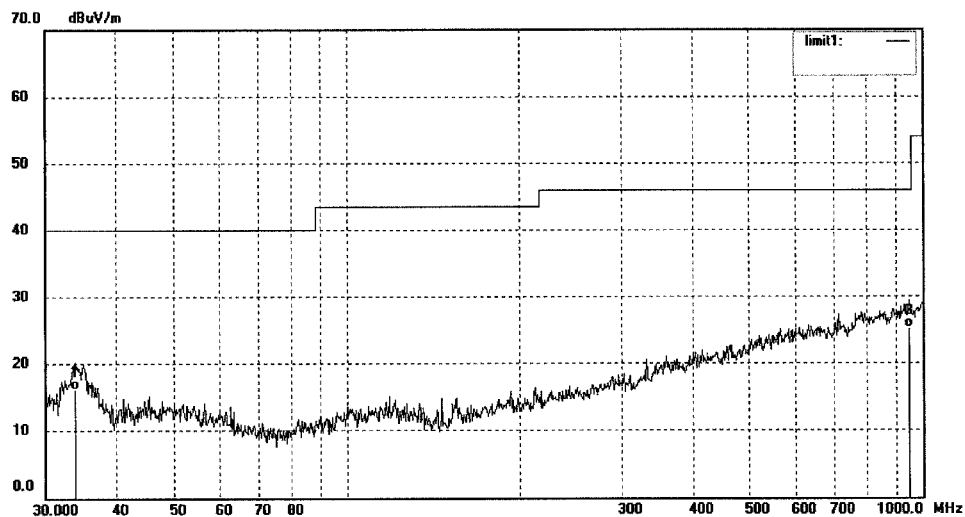
ACCURATE TECHNOLOGY CO., LTD.
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: LAN #2087
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Dongle
 Mode: A
 Model: MT-RG1102
 Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
 Power Source: DC 5V
 Date: 14/01/23/
 Time: 18:10:14
 Engineer Signature:
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.8066	27.48	-11.30	16.18	40.00	-23.82	QP			
2	948.6607	23.15	2.13	25.28	46.00	-20.72	QP			


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Site: 2# Chamber

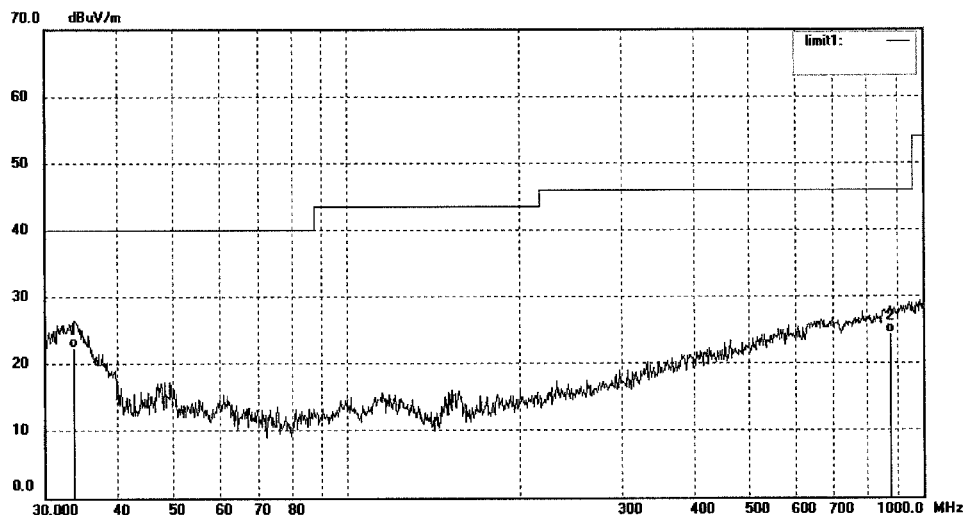
Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: LAN #2086
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: A
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/23/
Time: 18:00:48
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.5700	32.83	-10.27	22.56	40.00	-17.44	QP			
2	878.0931	23.36	1.13	24.49	46.00	-21.51	QP			


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Site: 2# Chamber

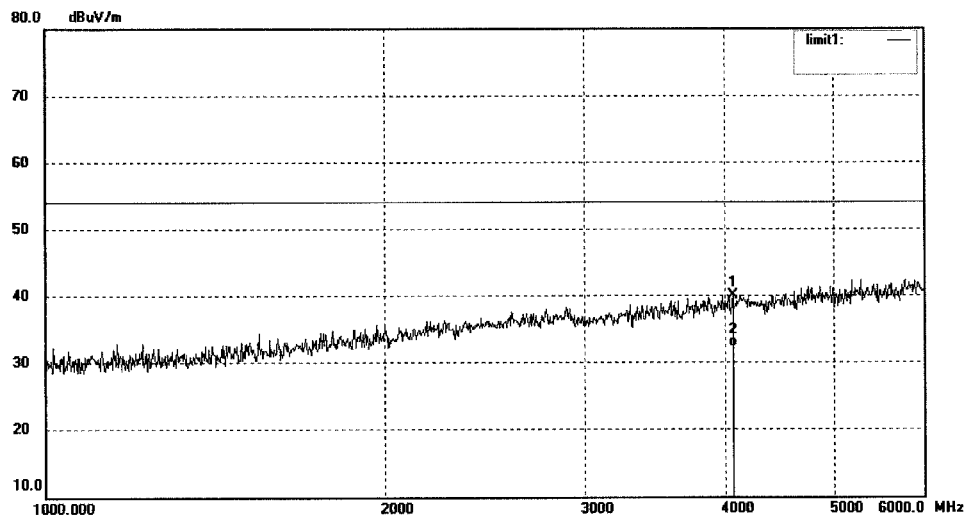
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN #2089
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: A
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 14/01/23/
Time: 18:30:46
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4064.957	41.57	-1.52	40.05	74.00	-33.95	peak			
2	4064.957	33.91	-1.52	32.39	54.00	-21.61	AVG			


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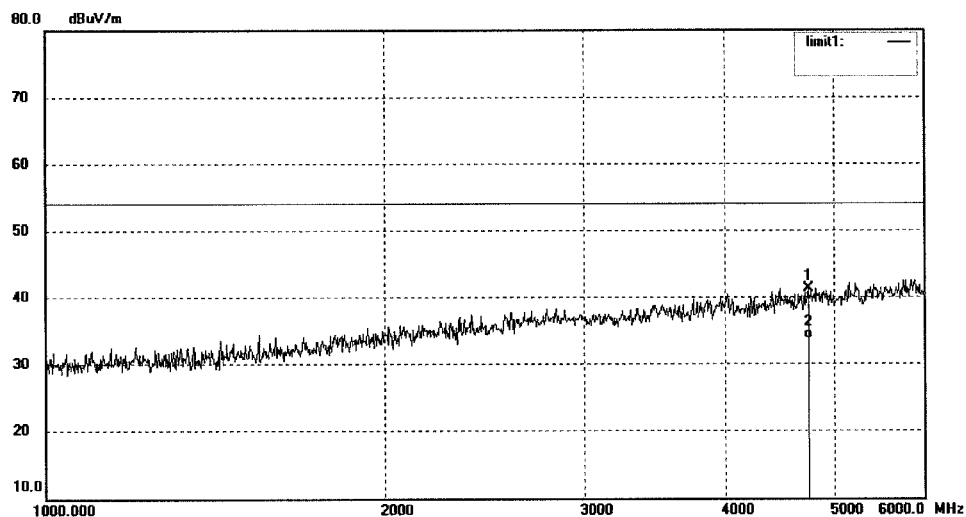
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LAN #2088
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: A
Model: MT-RG1102
Manufacturer: Mae Tay Precision Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 14/01/23/
Time: 18:21:53
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4738.033	41.98	-0.66	41.32	74.00	-32.68	peak			
2	4738.033	34.43	-0.66	33.77	54.00	-20.23	AVG			

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass**

Test standard : FCC KDB Publication 447498 D01 v05r01

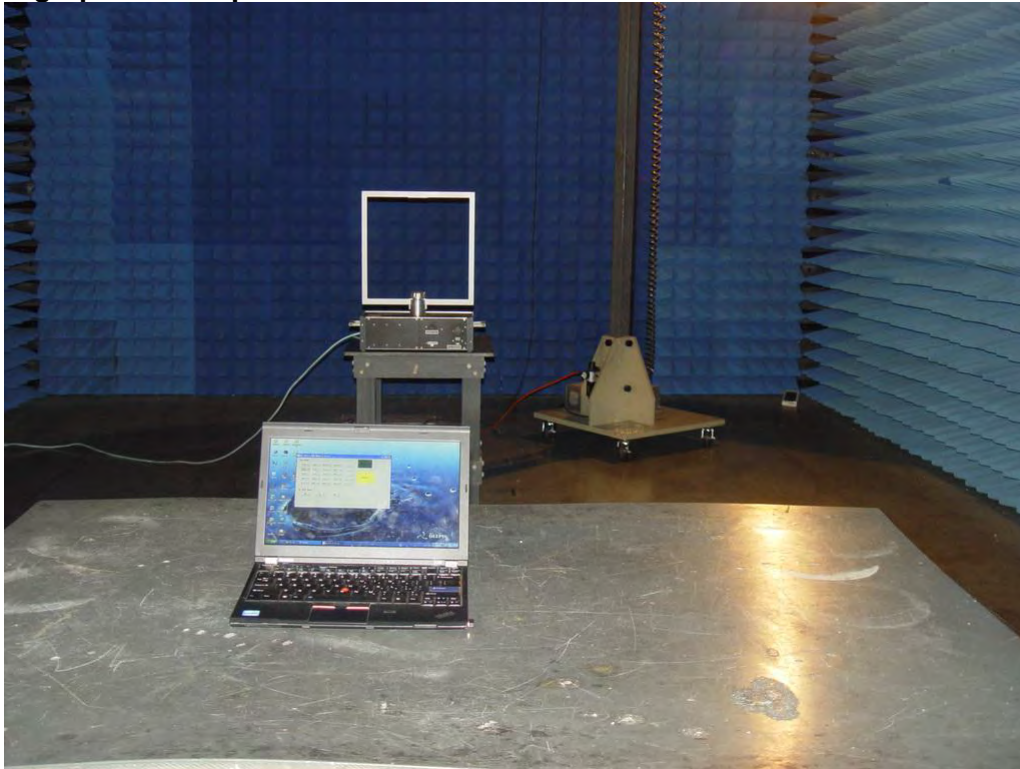
The maximum peak output power of the transmitter is 0.1mW (-10.13dBm), which far below than the SAR exclusion threshold level (Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm):

MHz	5	10	15	20	25	30	35	40	45	50	mm
2450	10	19	29	38	48	57	67	77	86	96	mW

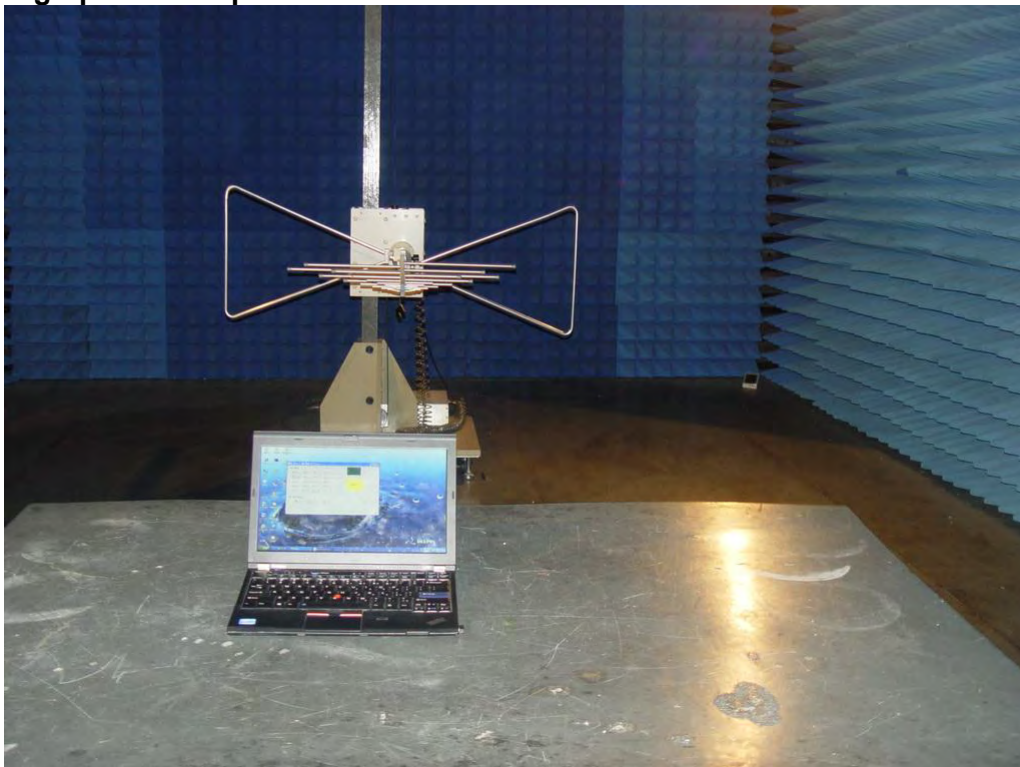
Therefore the transmitter is deemed comply with the requirement without SAR testing.

7. Photographs of the Test Set-Up

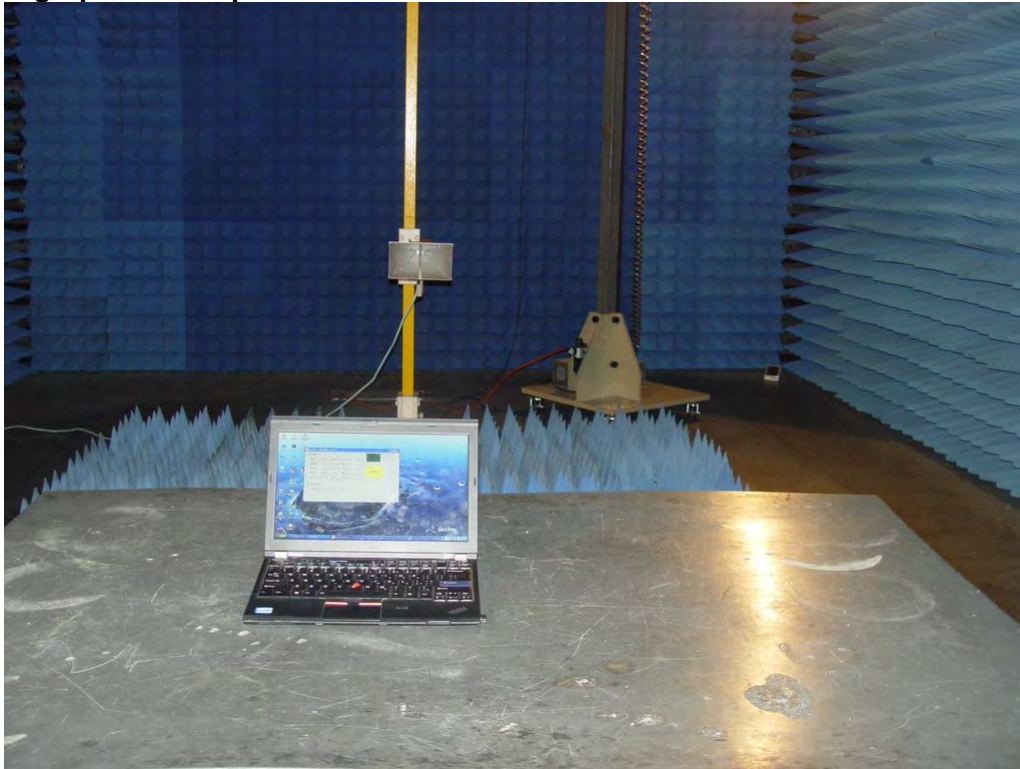
Photograph 1: Set-up for Radiated Emissions below 30MHz



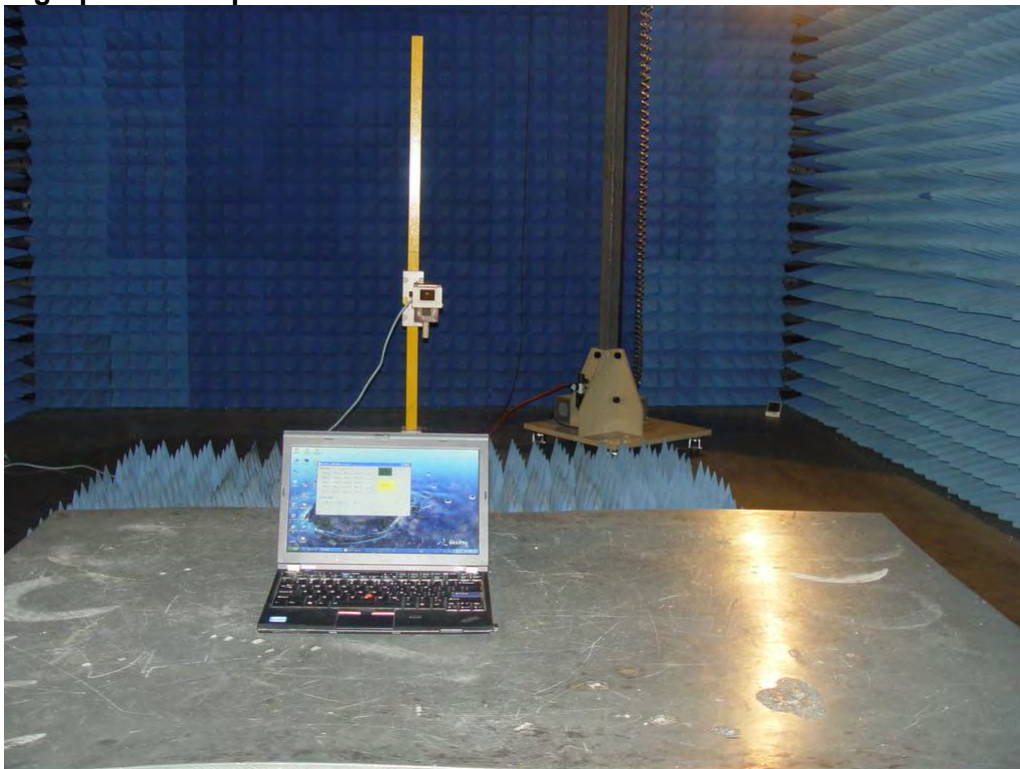
Photograph 2: Set-up for Radiated Emissions for 30MHz - 1GHz



Photograph 3: Set-up for Radiated Emissions for 1 – 18GHz



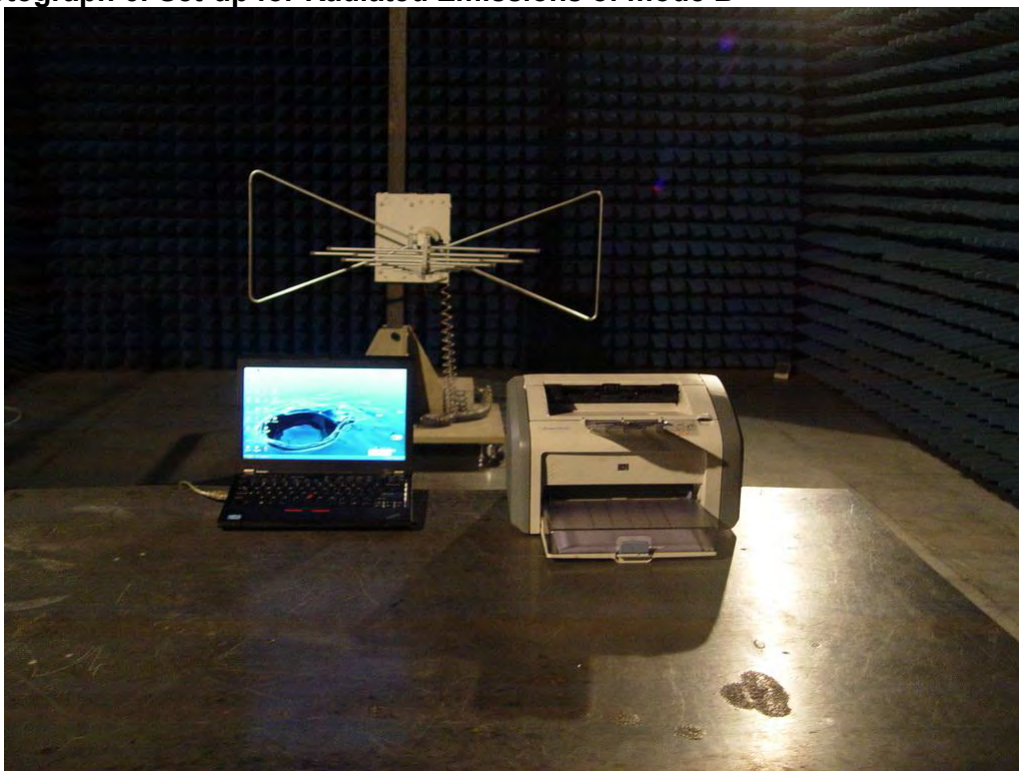
Photograph 4: Set-up for Radiated Emissions for 18 – 26.5GHz



Photograph 5: Set-up for Conducted Emissions



Photograph 6: Set-up for Radiated Emissions of mode B



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