Prüfbericht-Nr.: *Test Report No.:*	**17056242 001**	**Auftrags-Nr.:** *Order No.:*	164051548	Seite 1 von 63 *Page 1 of 63*
Kunden-Referenz-Nr.: *Client Reference No.:*	N/A	**Auftragsdatum:** *Order date:*	10.12.2015	
Auftraggeber: *Client:*	Dongguan Newmen Electronics Technology Co., LTD No.5, Xifa Road, Lin Village, Tangxia Town, Dongguan, Guangdong, China			
Prüfgegenstand: *Test item:*	Dongle			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	MX-133			
Auftrags-Inhalt: *Order content:*	FCC/IC Certification			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.249 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015		CFR47 FCC Part 15: Subpart C Section 15.207 RSS-210 Issue 8 December 2010 FCC KDB Publication 447498 D01 v06	
Wareneingangsdatum: *Date of receipt:*	20.12.2015			
Prüfmuster-Nr.: *Test sample No.:*	A000293406-003			
Prüfzeitraum: *Testing period:*	24.12.2015 - 18.01.2016			
Ort der Prüfung: *Place of testing:*	Accurate Technology Co., Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von / *tested by:*			**kontrolliert von** / *reviewed by:*		
05.02.2016	Owen Tian/Senior Project Engineer		05.02.2016	Sam Lin/Technical Certicier	
Datum *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*

Sonstiges / *Other:*

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged*

* 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*

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 20DB BANDWIDTH AND 99% BANDWIDTH
RESULT: Pass

5.1.3 FUNDAMENTAL & HARMONICS RADIATED EMISSION
RESULT: Pass

5.1.1 RADIATED EMISSIONS OUTSIDE OF THE BAND
RESULT: Pass

5.1.2 CONDUCTED EMISSIONS
RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS
RESULT: Pass

Contents

1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)
(Test site Industry Canada No.: 5077A-2)

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				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Test Receiver	Rohde & Schwarz	ESCS30	100307	2016-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2016-01-14
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2016-01-14
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2016-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2016-01-09
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2016-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2016-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2016-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2016-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2016-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2016-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2016-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2016-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2016-01-09
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2016-01-09
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2016-01-09
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2016-01-09
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2016-01-09
Voltage Probe	Schwarzbeck	TK9416	N/A	2016-01-09
RF Current Probe	Rohde & Schwarz	EZ-17	100048	2016-01-09
8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	2016-01-09
RF Coaxial Cable	Suhner	N-2m	No.2	2016-01-09
RF Coaxial Cable	Suhner	N-2m	No.3	2016-01-09
RF Coaxial Cable	Suhner	N-2m	No.14	2016-01-09

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 basics using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	< ± 0.60 dB
Radiated emission of transmitter, valid up to 26.5 GHz	< ± 4.42 dB
Conducted Emission	< ± 2.23 dB
Radiated Emission	< ± 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 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 USB dongle used with a 2.4GHz wireless presenter. 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	Dongle
Type Designation	MX-133
FCC ID	V4P-MX133
IC	12487A-MX133
Operating Frequency	2402 – 2476MHz
Channel separation	1MHz
Number of Channel	75
Extreme Temperature Range	-15~+40℃
Operation Voltage	DC 5V (via USB port)
Modulation	GFSK
Antenna Gain	-2dBi

3.3 Independent Operation Modes

The basic operation modes are:

A. On
   1. Transmitting
   2. Receiving

B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

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 C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
Notebook	Lenovo	X240	N/A
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 for below 1GHz

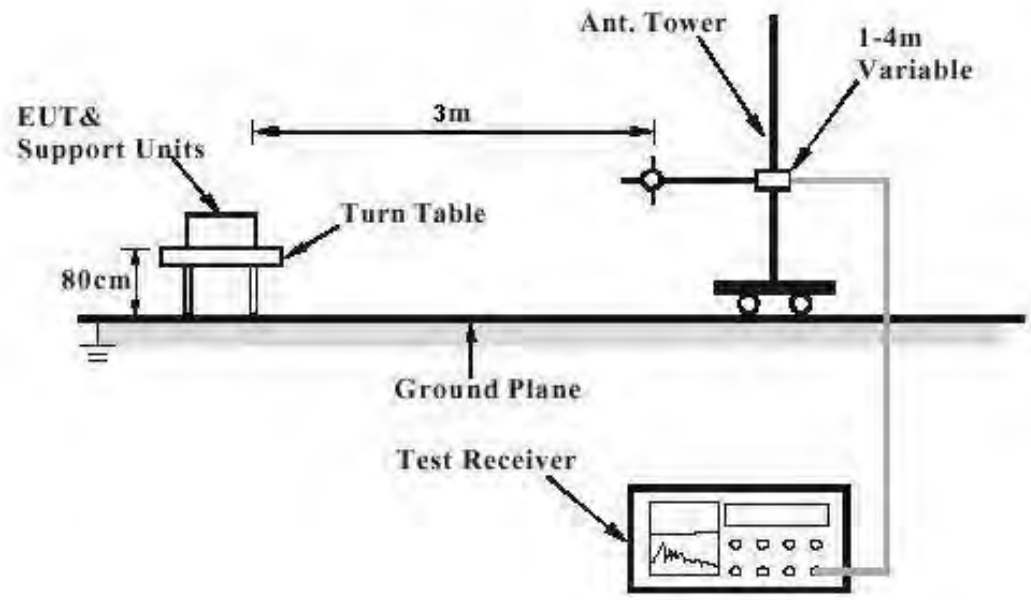


Diagram of Measurement Configuration for Radiation Test for above 1GHz

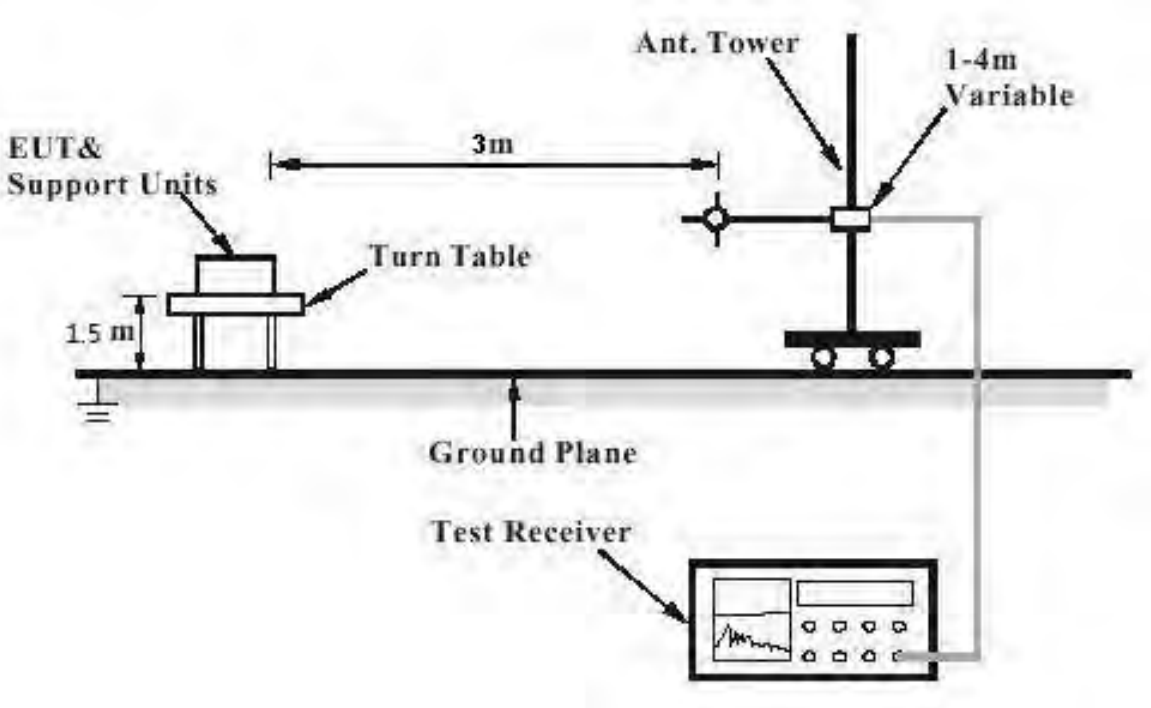


Diagram of Measurement Equipment Configuration for Conduction Measurement

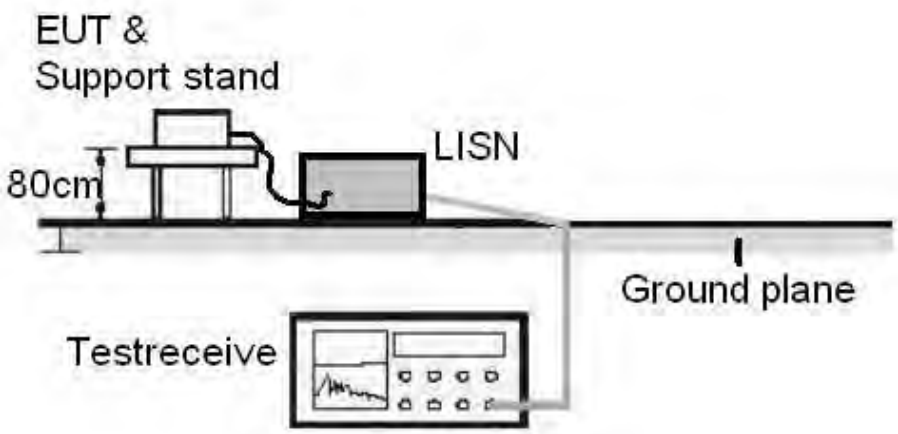
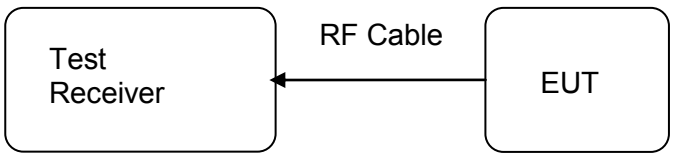


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test standard	:	Part 15.203 RSS-Gen 8.3
Limit	:	the use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -2dBi, therefore the EUT is considered sufficient to comply with the provision.

5.1.2 20dB Bandwidth and 99% Bandwidth

RESULT: **Pass**

Date of testing	:	2016-01-18
Test standard	:	FCC Part 15.249 RSS-210 A8.1(a)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded room

Test setup

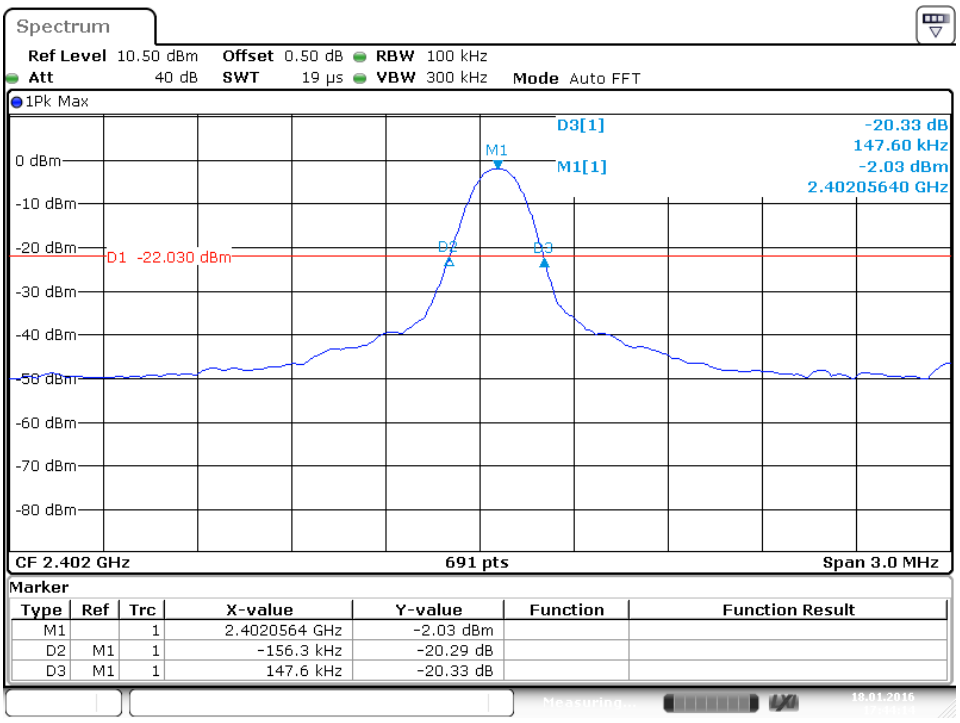
Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1
Ambient temperature	:	21℃
Relative humidity	:	60%
Atmospheric pressure	:	101kPa

Table 4: Test result of 20dB & 99% Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	303.9	251.8
Mid Channel	2441	329.9	272.1
High Channel	2476	329.9	276.4

For details refer to following test plot.

Test Plot of 20dB Bandwidth



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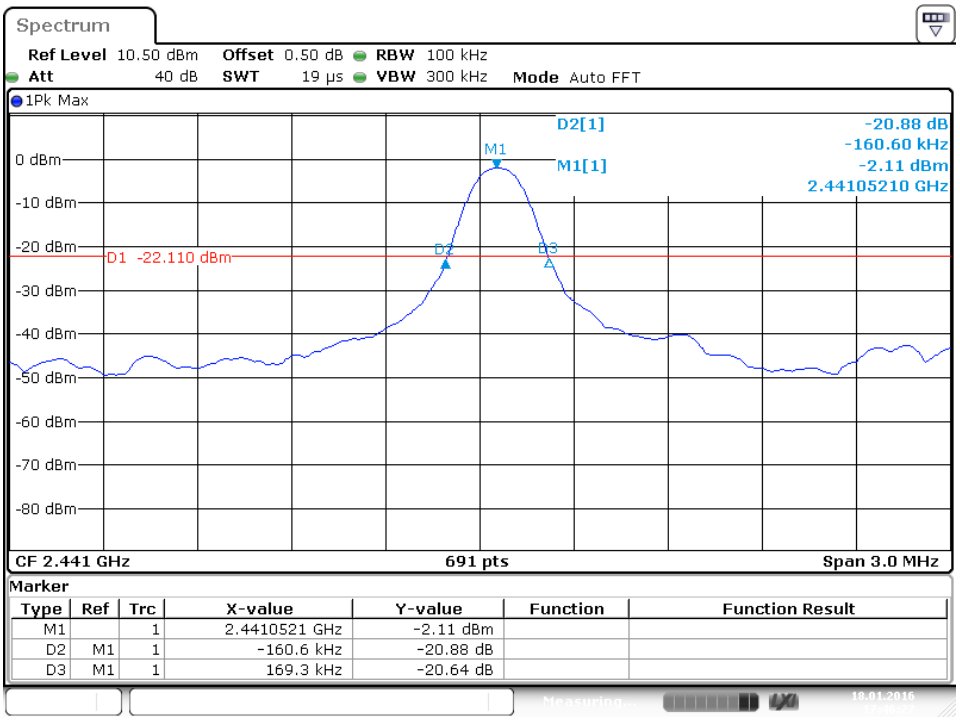

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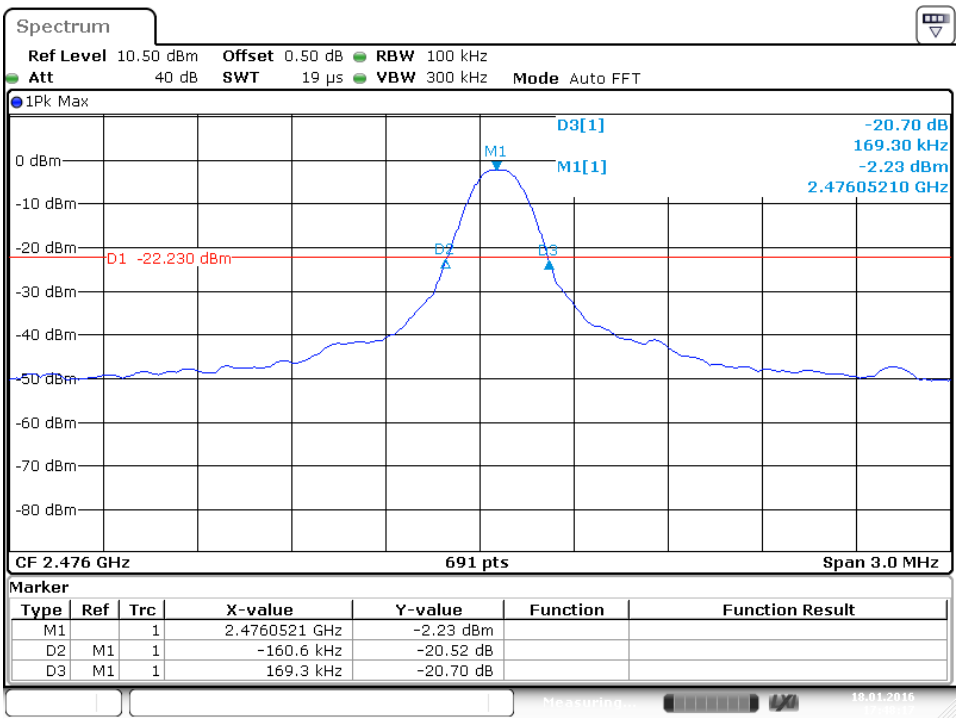

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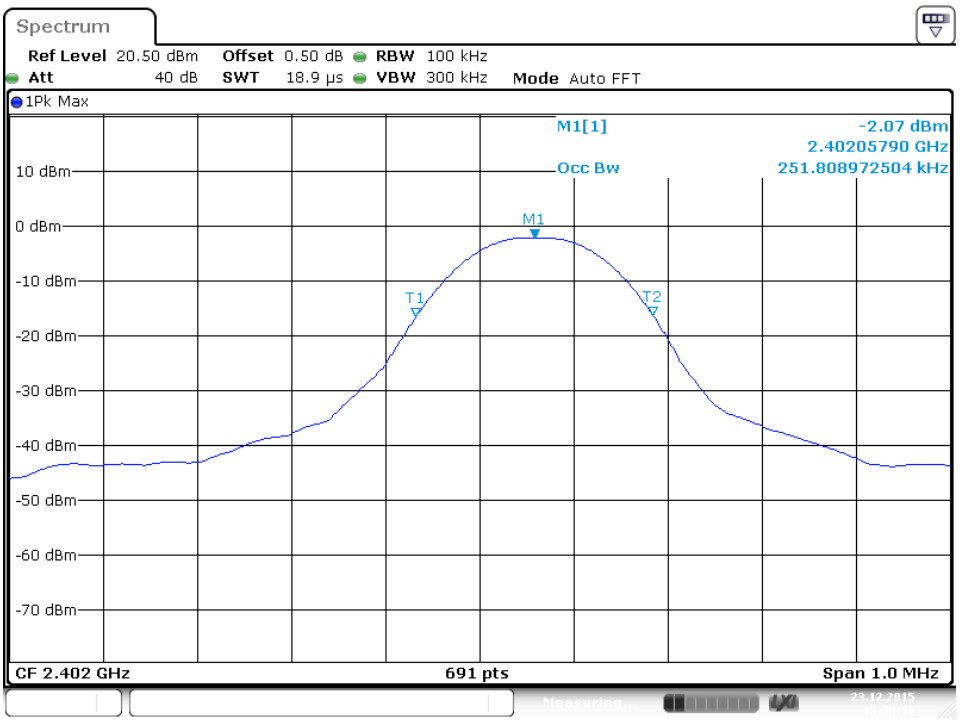
Test Plot of 99% Bandwidth



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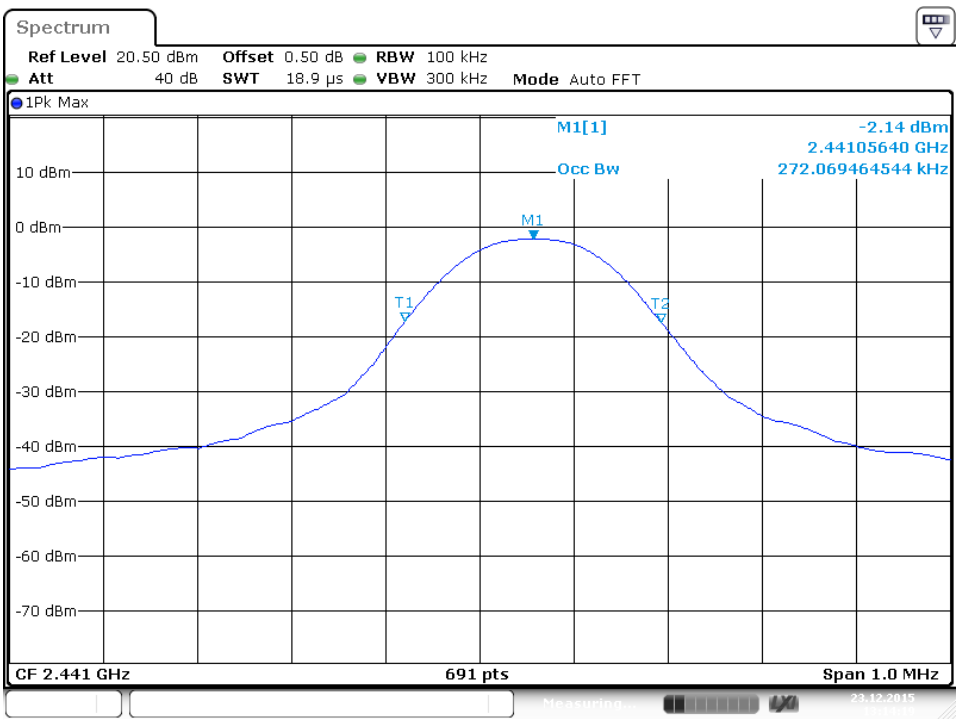

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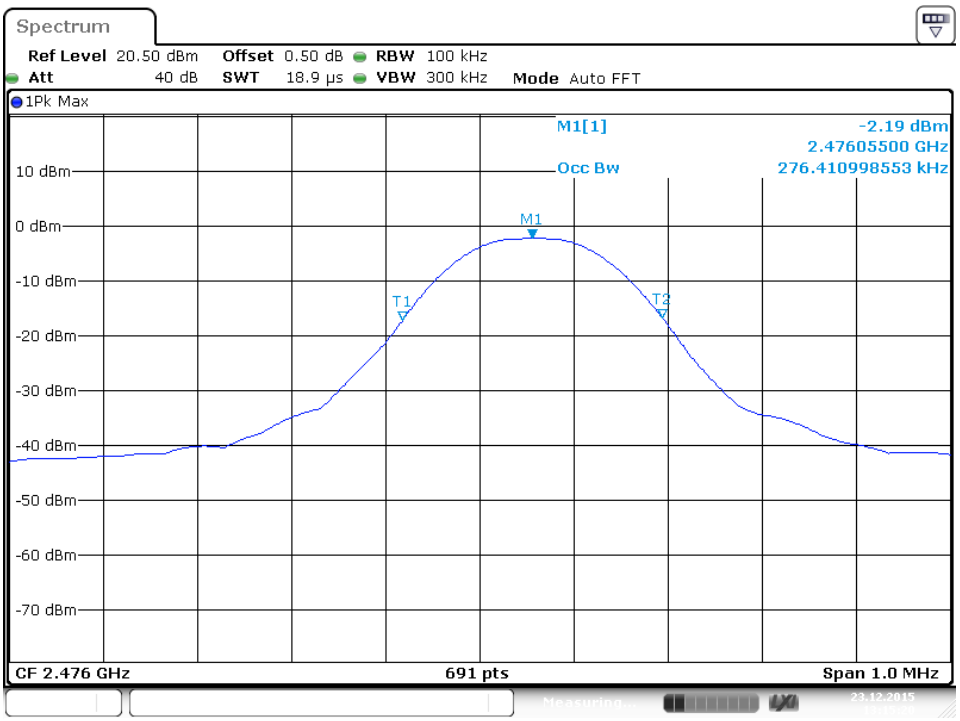


Date: 23.DEC.2015 13:15:20

5.1.3 Fundamental & Harmonics Radiated Emission

RESULT: **Pass**

Date of testing	:	2015-12-24
Test standard	:	FCC part 15.249(a) RSS-210 Clause A2.9
Basic standard	:	ANSI C63.10: 2013
Limits	:	FCC part 15.249(a)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

Test setup

Test channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	23℃
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

Table 5: Polarization of the measurement for the larger power level channel 2402MHz: Horizontal

Test conditions		Fundamental Frequency		2nd Harmonic Frequency	
		2402MHz		4804MHz	
T_{nom}(25ºC)	Unit	(dBµV/m)	(mV/m)	(dBµV/m)	(µV/m)
	Horizontal	89.07	28.41	39.92	99.08
	Vertical	82.78	13.77	39.26	91.83
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.

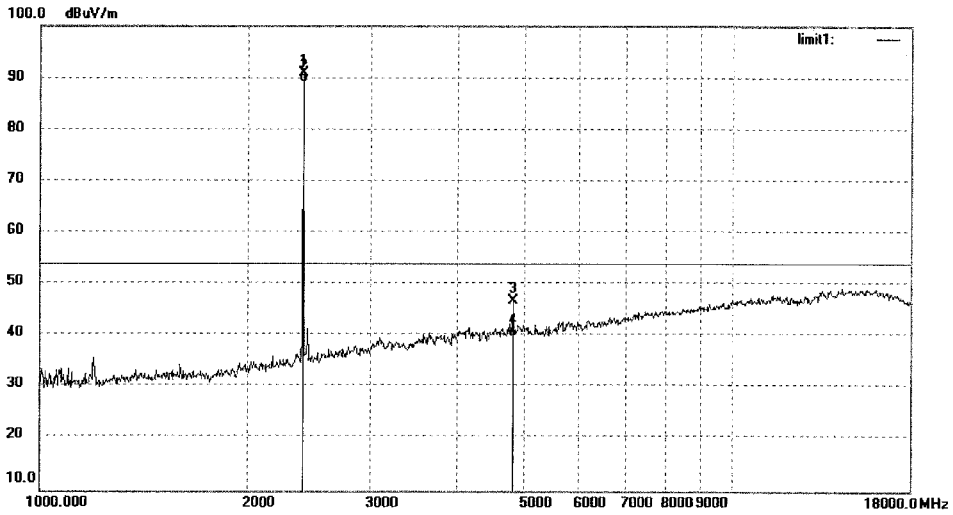
For details refer to following test plot.

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.: LGW2015 #2228	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD	

Note:



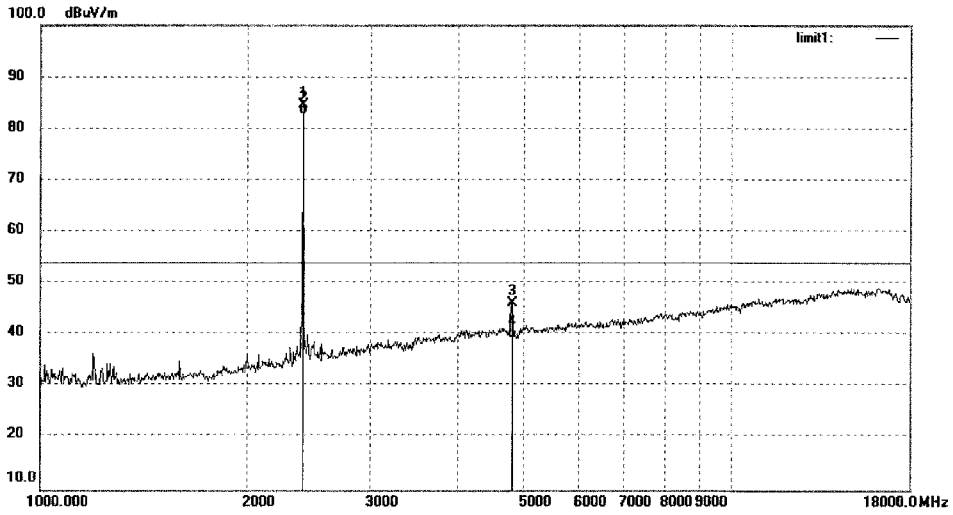
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	98.33	-7.45	90.88	114.00	-23.12	peak			
2	2402.000	96.52	-7.45	89.07	94.00	-4.93	AVG			
3	4804.031	47.10	-0.30	46.80	74.00	-27.20	peak			
4	4804.031	40.22	-0.30	39.92	54.00	-14.08	AVG			

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.: LGW2015 #2229	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PE!
Mode: TX 2402MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD	

Note:



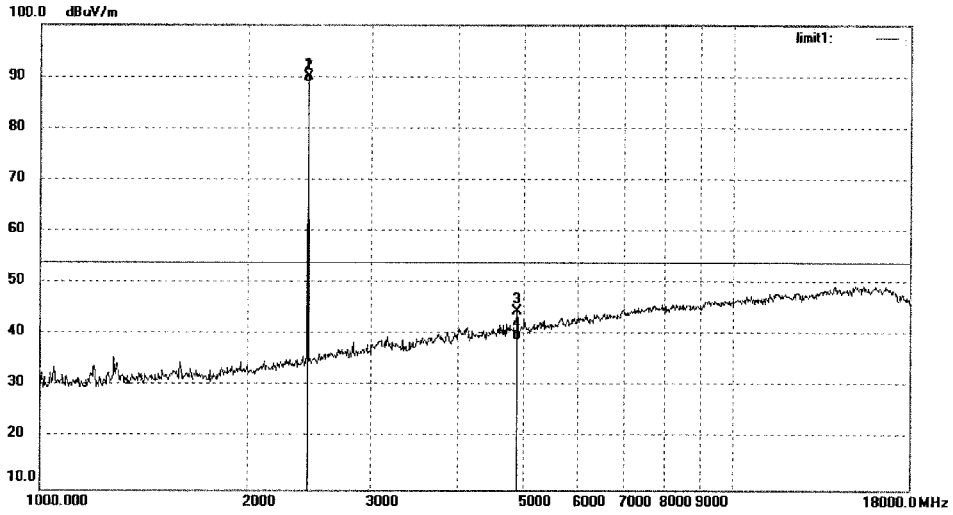
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	92.10	-7.45	84.65	114.00	-29.35	peak			
2	2402.000	90.23	-7.45	82.78	94.00	-11.22	AVG			
3	4804.026	46.49	-0.30	46.19	74.00	-27.81	peak			
4	4804.026	39.56	-0.30	39.26	54.00	-14.74	AVG			

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.: LGW2015 #2232	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2441.000	97.27	-7.35	89.92	114.00	-24.08	peak			
2	2441.000	96.25	-7.35	88.90	94.00	-5.10	AVG			
3	4882.024	44.45	0.14	44.59	74.00	-29.41	peak			
4	4882.024	38.67	0.14	38.81	54.00	-15.19	AVG			

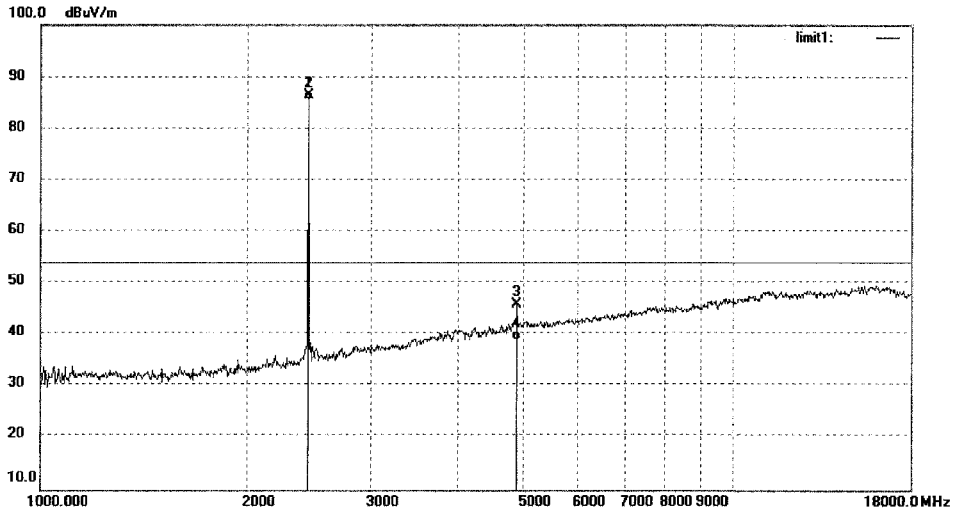
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LGW2015 #2233
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2441MHz
Model: MX-133
Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Vertical
Power Source: DC 5V
Date: 15/12/24/
Time:
Engineer Signature: PEI
Distance: 3m

Note:



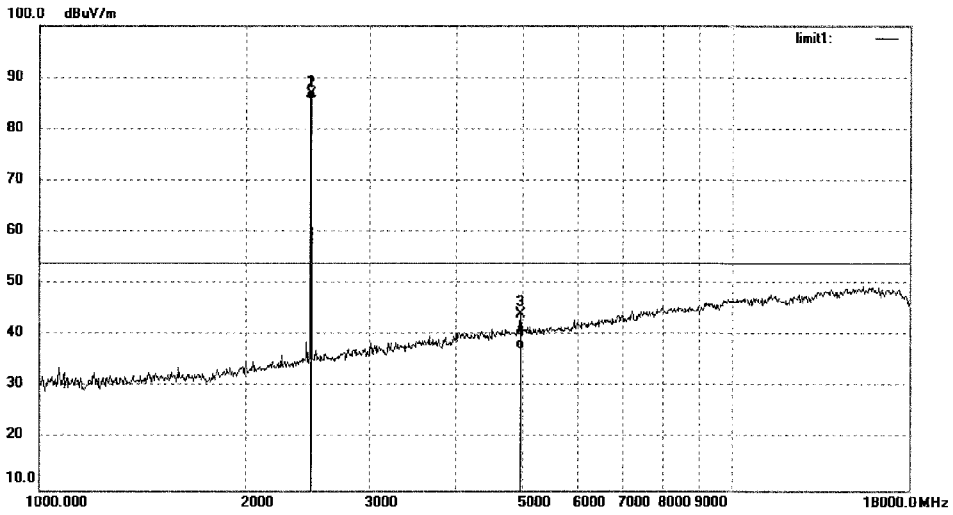
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	93.66	-7.35	86.31	114.00	-27.69	peak			
2	2441.000	92.75	-7.35	85.40	94.00	-8.60	AVG			
3	4882.028	45.69	0.14	45.83	74.00	-28.17	peak			
4	4882.028	38.86	0.14	39.00	54.00	-15.00	AVG			

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.: LGW2015 #2231	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD	

Note:



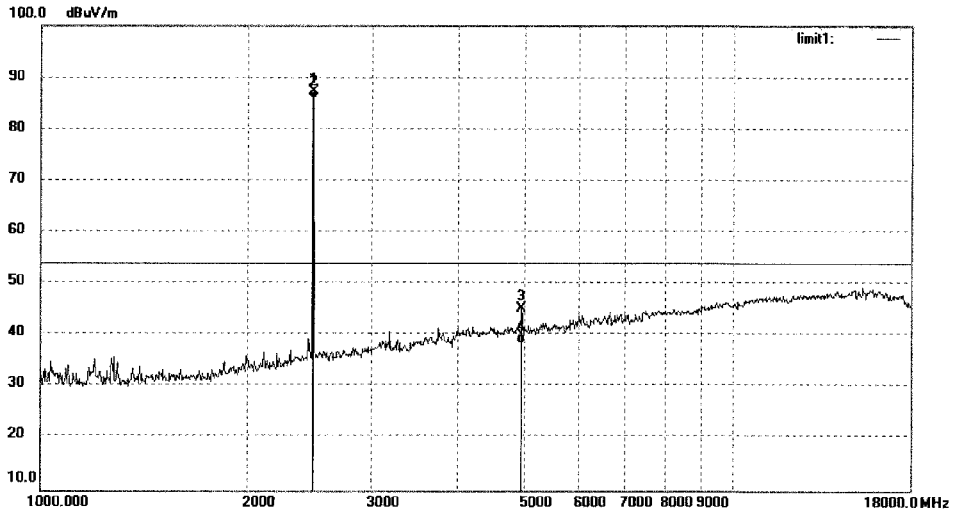
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2476.000	94.30	-7.36	86.94	114.00	-27.06	peak			
2	2476.000	93.15	-7.36	85.79	94.00	-8.21	AVG			
3	4952.029	43.64	0.48	44.12	74.00	-29.88	peak			
4	4952.029	36.78	0.48	37.26	54.00	-16.74	AVG			

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.: LGW2015 #2230	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2476.000	94.54	-7.36	87.18	114.00	-26.82	peak			
2	2476.000	93.23	-7.36	85.87	94.00	-8.13	AVG			
3	4952.023	44.72	0.48	45.20	74.00	-28.80	peak			
4	4952.023	37.89	0.48	38.37	54.00	-15.63	AVG			

5.1.1 Radiated emissions outside of the band

RESULT: **Pass**

Date of testing	:	2015-12-24
Test standard	:	FCC Part 15.209(a) FCC Part 15.249(d) RSS-210 Clause A2.9(b)
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.009 – 26500MHz*
Limits	:	FCC Part 15.209(a) FCC Part 15.249(d)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

Test Setup

Test channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	23℃
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

Test Plot of Radiated emissions outside band

ACCURATE TECHNOLOGY CO.,LTD

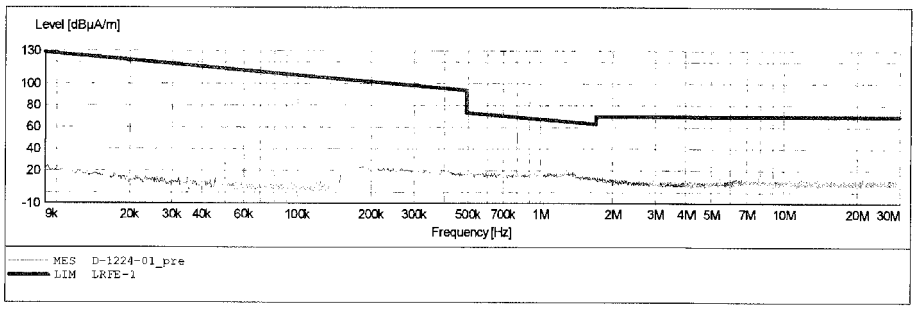
FCC Class B 3m Radiated

```
EUT:                    Dongle M/N:MX-133
Manufacturer:           Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:    TX 2402MHz
Test Site:              2# Chamber
Operator:               LGWADE
Test Specification:     DC 5V
Comment:                X
Start of Test:          2015-12-24 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

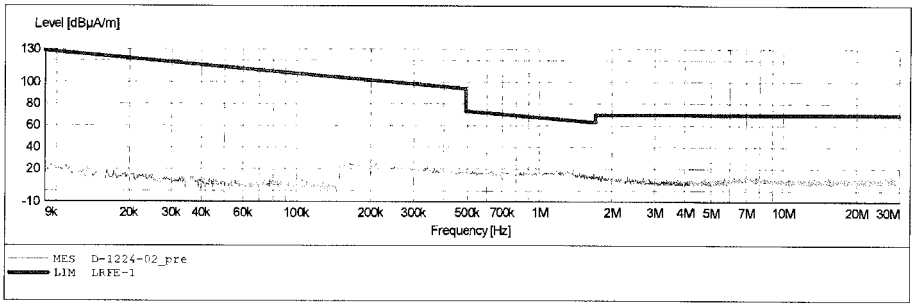
FCC Class B 3m Radiated

EUT:	Dongle M/N:MX-133
Manufacturer:	Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:	TX 2402MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 5V
Comment:	Y
Start of Test:	2015-12-24 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

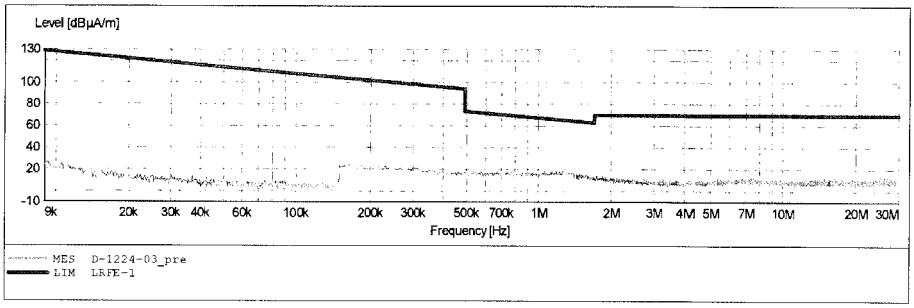
FCC Class B 3m Radiated

EUT:	Dongle M/N:MX-133
Manufacturer:	Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:	TX 2402MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 5V
Comment:	Z
Start of Test:	2015-12-24 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

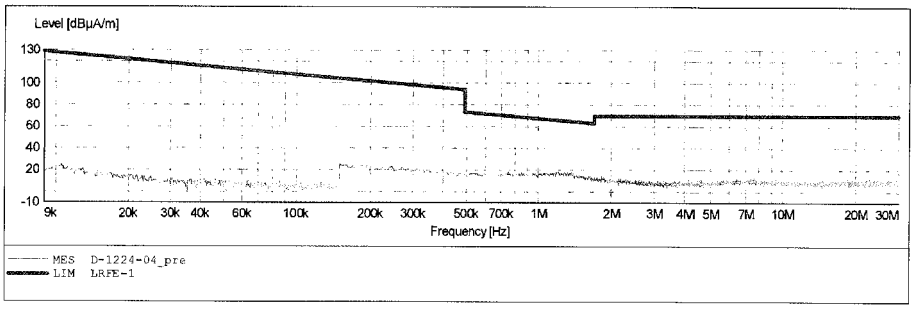
FCC Class B 3m Radiated

EUT:	Dongle M/N:MX-133
Manufacturer:	Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:	TX 2441MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 5V
Comment:	X
Start of Test:	2015-12-24 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

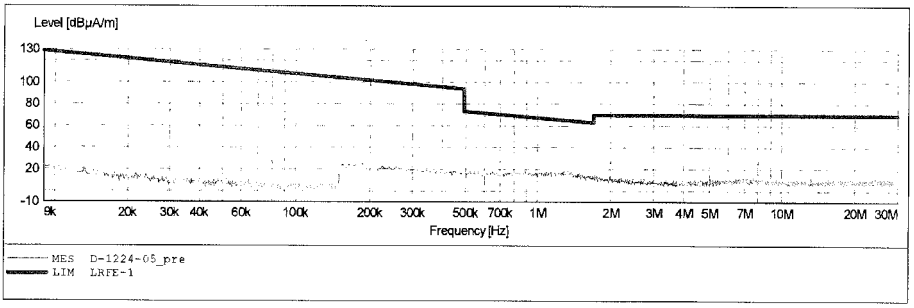
FCC Class B 3m Radiated

EUT:	Dongle M/N:MX-133
Manufacturer:	Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:	TX 2441MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 5V
Comment:	Y
Start of Test:	2015-12-24 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

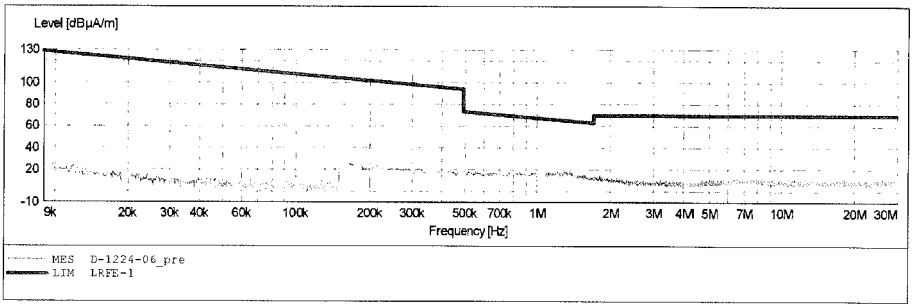
FCC Class B 3m Radiated

EUT:	Dongle M/N:MX-133
Manufacturer:	Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:	TX 2441MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 5V
Comment:	Z
Start of Test:	2015-12-24 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

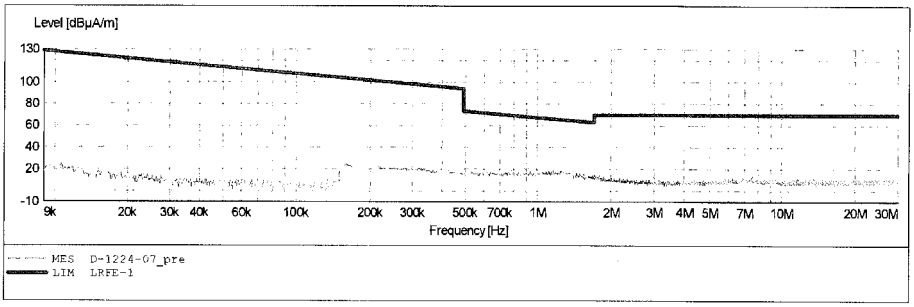
FCC Class B 3m Radiated

EUT:	Dongle M/N:MX-133
Manufacturer:	Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:	TX 2476MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 5V
Comment:	X
Start of Test:	2015-12-24 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

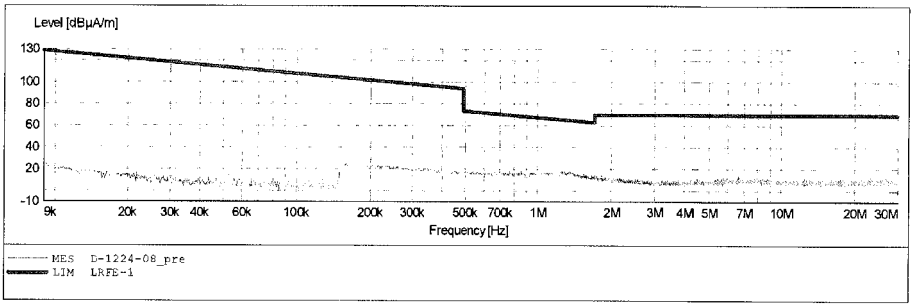
FCC Class B 3m Radiated

EUT:	Dongle M/N:MX-133
Manufacturer:	Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:	TX 2476MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 5V
Comment:	Y
Start of Test:	2015-12-24 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

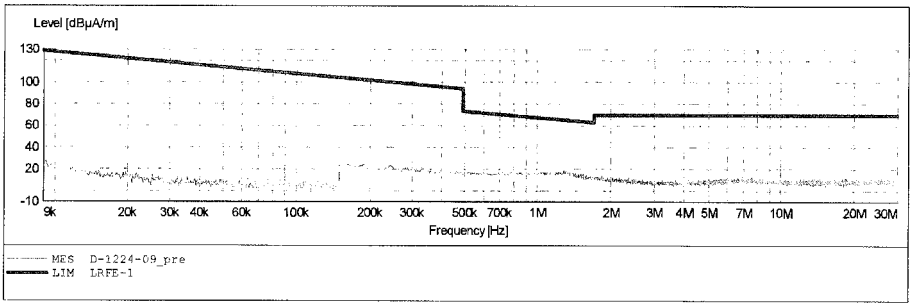
FCC Class B 3m Radiated

EUT:	Dongle M/N:MX-133
Manufacturer:	Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:	TX 2476MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 5V
Comment:	Z
Start of Test:	2015-12-24 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

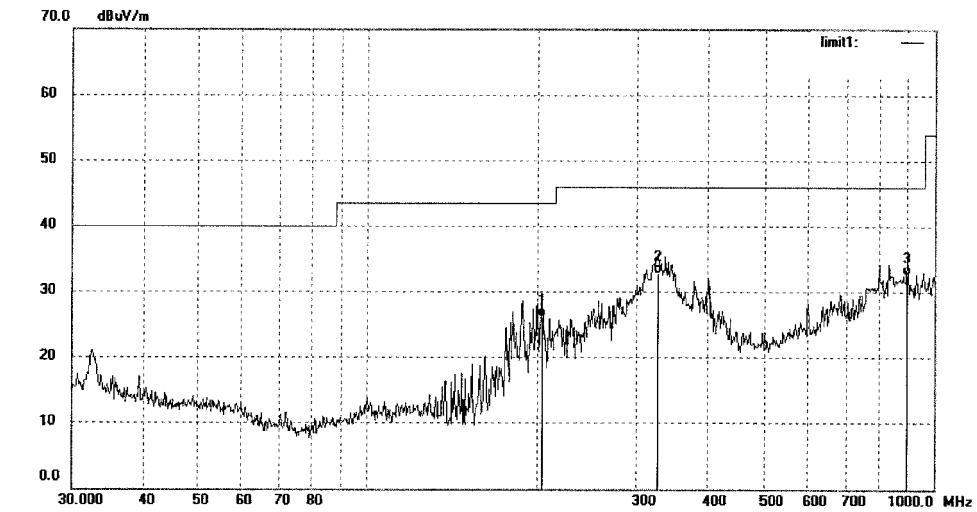


ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LGW2015 #2222	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	204.2375	38.21	-12.13	26.08	43.50	-17.42	QP			
2	325.5957	41.28	-8.51	32.77	46.00	-13.23	QP			
3	896.9963	31.32	1.27	32.59	46.00	-13.41	QP			

ACCURATE TECHNOLOGY CO., LTD.
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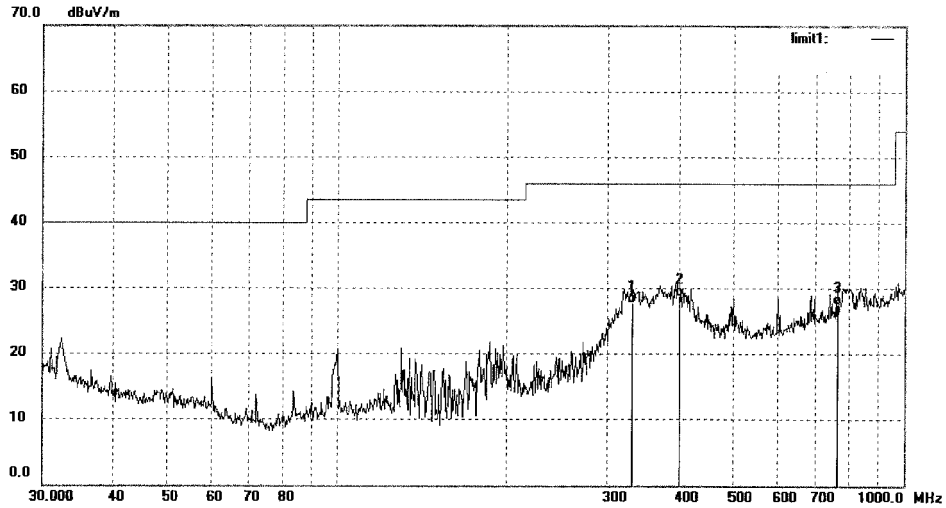
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2223	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	331.3546	36.08	-8.32	27.76	46.00	-18.24	QP			
2	400.4318	35.53	-6.81	28.72	46.00	-17.28	QP			
3	763.3757	28.39	-0.81	27.58	46.00	-18.42	QP			

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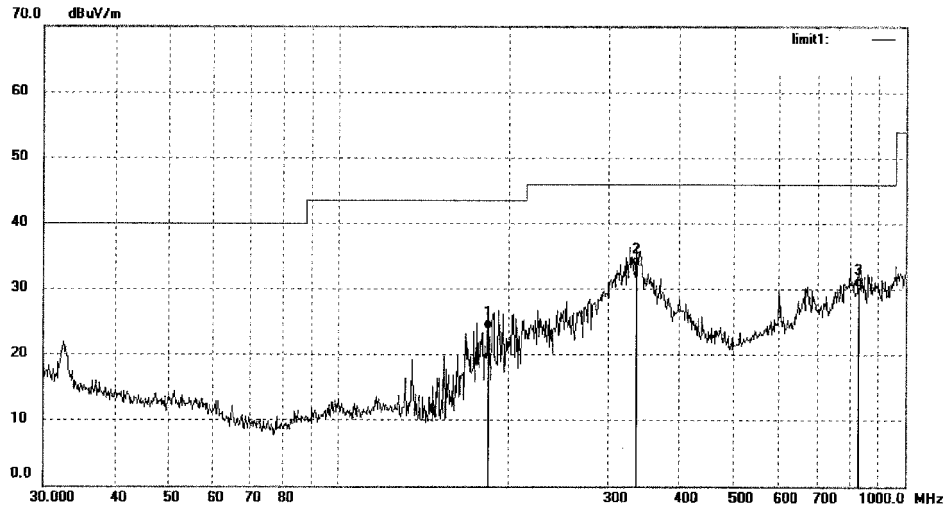
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LGW2015 #2225	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD	

Note:



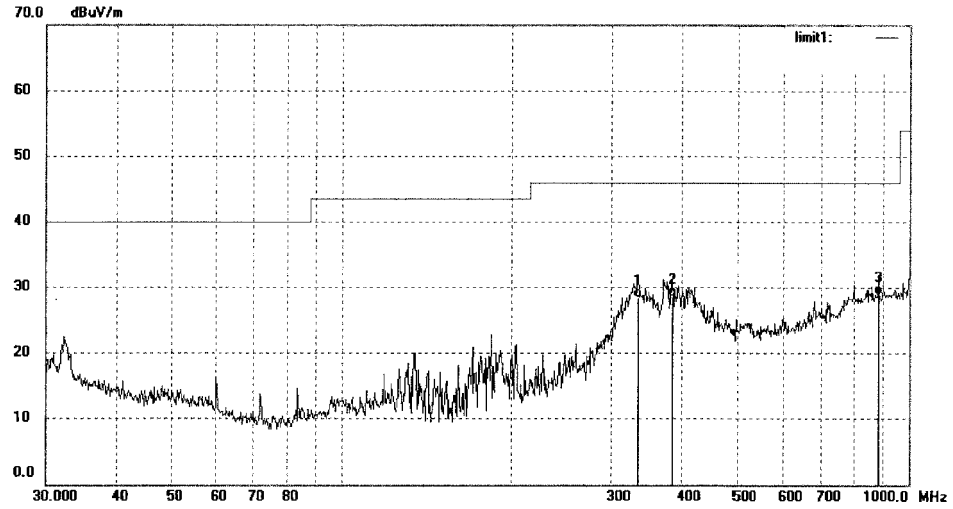
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	184.4898	36.38	-12.56	23.82	43.50	-19.68	QP			
2	334.8589	41.69	-8.26	33.43	46.00	-12.57	QP			
3	827.4932	29.88	0.48	30.36	46.00	-15.64	QP			

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.: LGW2015 #2224	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD	

Note:



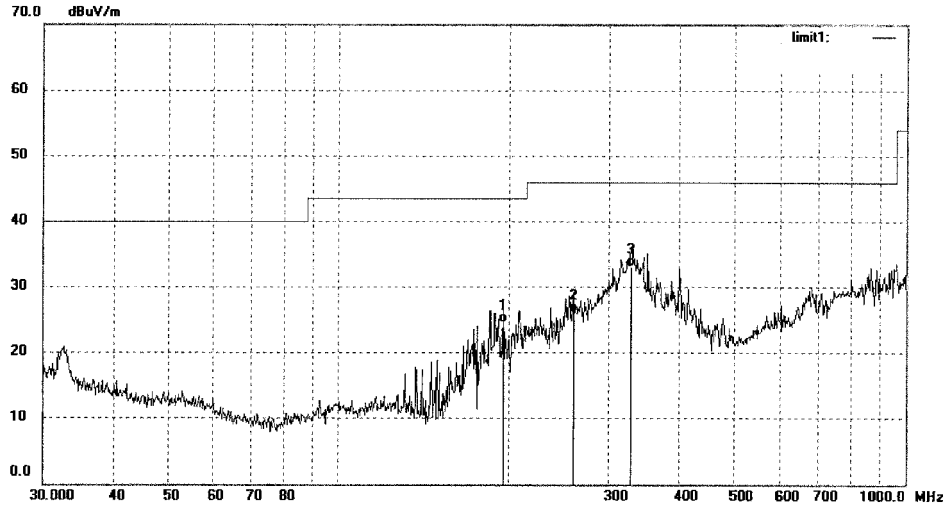
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	333.6865	36.74	-8.28	28.46	46.00	-17.54	QP			
2	383.9318	35.98	-7.30	28.68	46.00	-17.32	QP			
3	881.4067	27.75	1.16	28.91	46.00	-17.09	QP			

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.: LGW2015 #2226	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	195.8220	36.80	-12.26	24.54	43.50	-18.96	QP			
2	260.1444	36.76	-10.63	26.13	46.00	-19.87	QP			
3	327.8872	41.64	-8.43	33.21	46.00	-12.79	QP			

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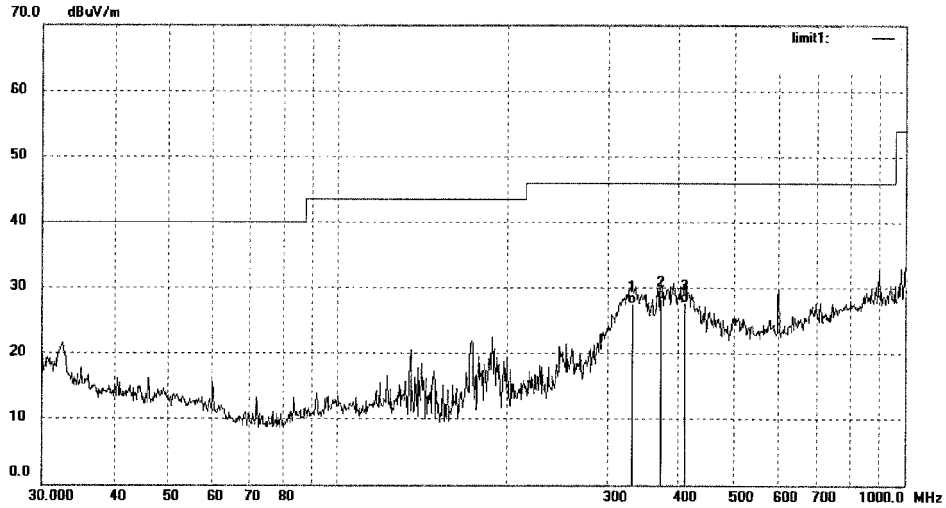
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LGW2015 #2227	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	330.1949	35.93	-8.34	27.59	46.00	-18.41	QP			
2	372.0045	35.67	-7.48	28.19	46.00	-17.81	QP			
3	410.3824	34.32	-6.55	27.77	46.00	-18.23	QP			

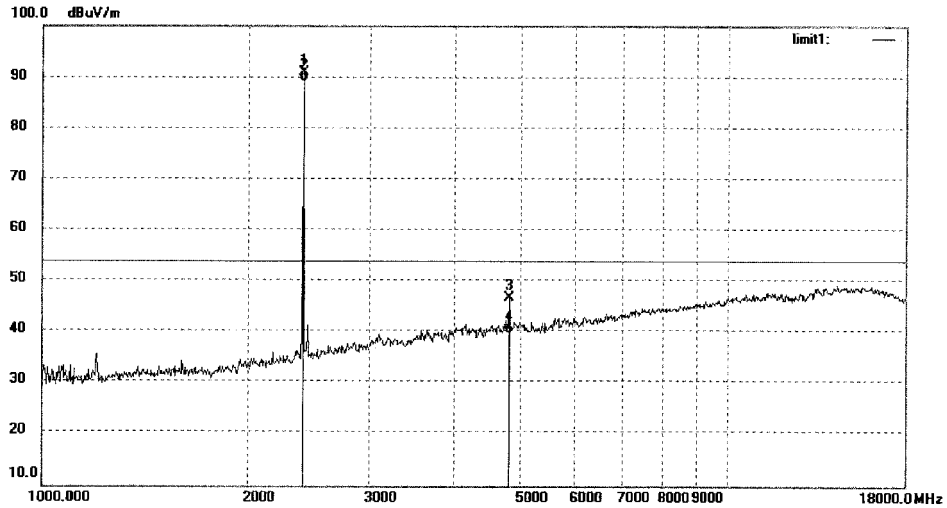
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LGW2015 #2228
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Dongle
Mode: TX 2402MHz
Model: MX-133
Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD

Polarization: Horizontal
Power Source: DC 5V
Date: 15/12/24/
Time:
Engineer Signature: PEI
Distance: 3m

Note:



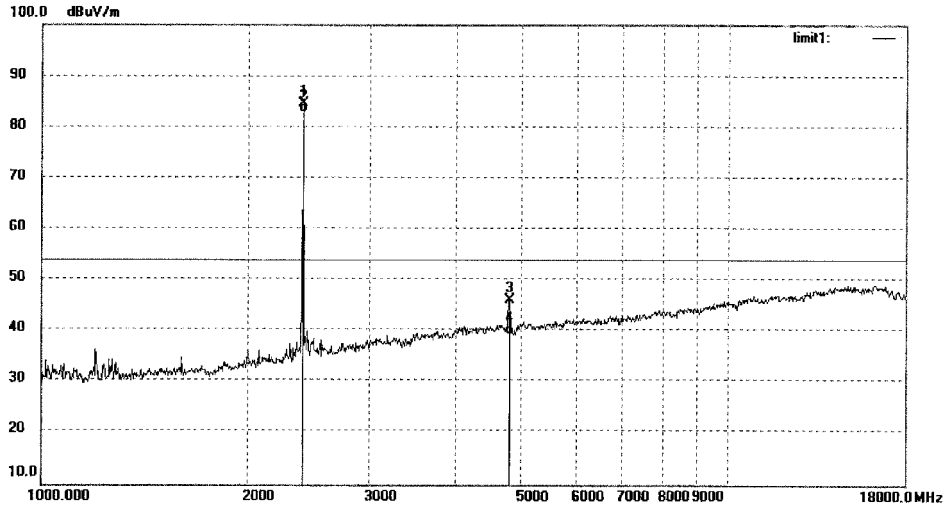
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	98.33	-7.45	90.88	114.00	-23.12	peak			
2	2402.000	96.52	-7.45	89.07	94.00	-4.93	AVG			
3	4804.031	47.10	-0.30	46.80	74.00	-27.20	peak			
4	4804.031	40.22	-0.30	39.92	54.00	-14.08	AVG			

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.: LGW2015 #2229	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology Co.,LTD	

Note:



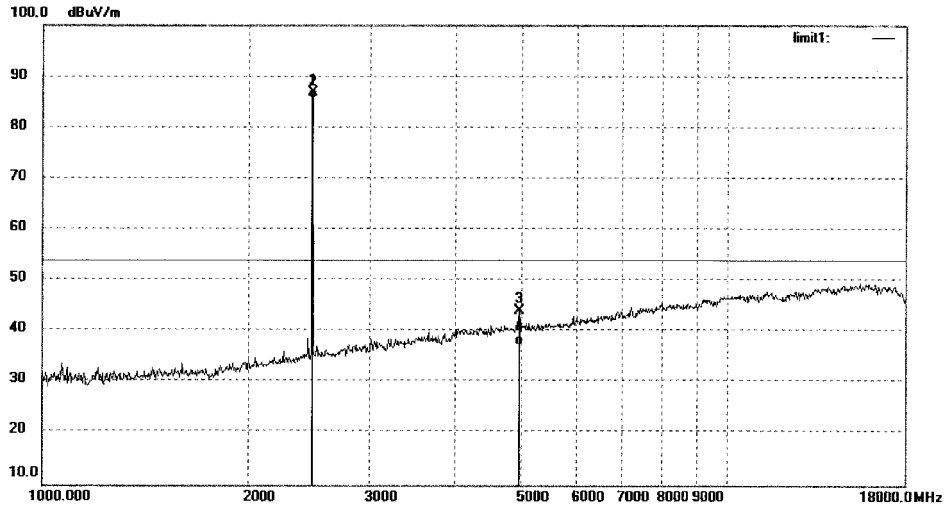
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	92.10	-7.45	84.65	114.00	-29.35	peak			
2	2402.000	90.23	-7.45	82.78	94.00	-11.22	AVG			
3	4804.026	46.49	-0.30	46.19	74.00	-27.81	peak			
4	4804.026	39.56	-0.30	39.26	54.00	-14.74	AVG			

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.: LGW2015 #2231	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2476.000	94.30	-7.36	86.94	114.00	-27.06	peak			
2	2476.000	93.15	-7.36	85.79	94.00	-8.21	AVG			
3	4952.029	43.64	0.48	44.12	74.00	-29.88	peak			
4	4952.029	36.78	0.48	37.26	54.00	-16.74	AVG			

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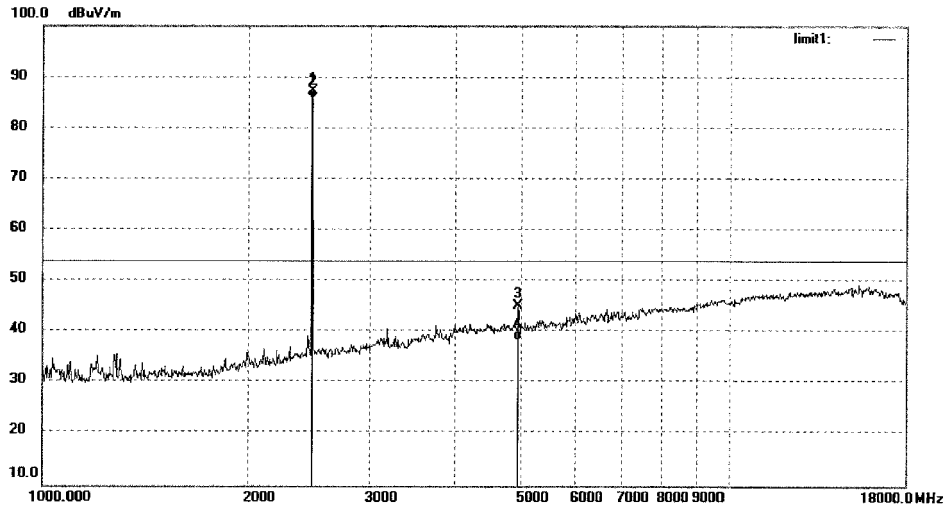
Job No.: LGW2015 #2230	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2476.000	94.54	-7.36	87.18	114.00	-26.82	peak			
2	2476.000	93.23	-7.36	85.87	94.00	-8.13	AVG			
3	4952.023	44.72	0.48	45.20	74.00	-28.80	peak			
4	4952.023	37.89	0.48	38.37	54.00	-15.63	AVG			

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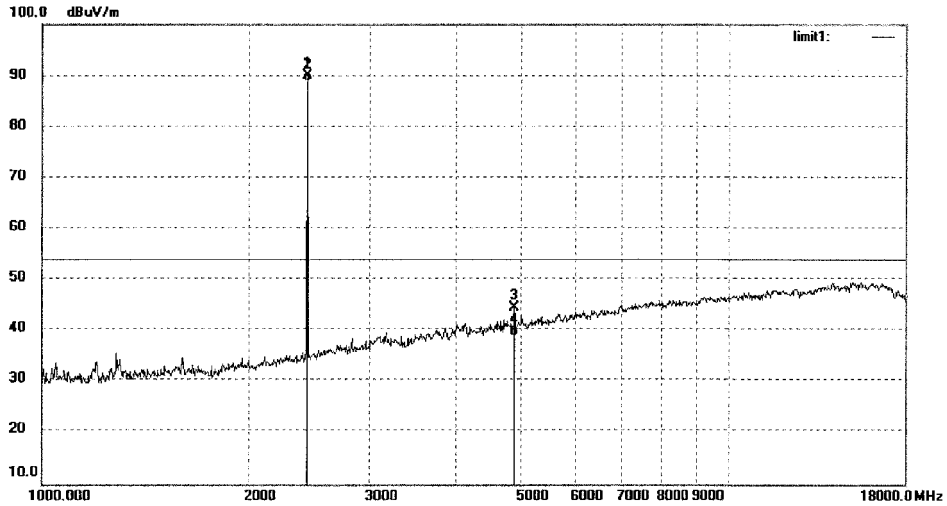
Job No.: LGW2015 #2232	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2441.000	97.27	-7.35	89.92	114.00	-24.08	peak			
2	2441.000	96.25	-7.35	88.90	94.00	-5.10	AVG			
3	4882.024	44.45	0.14	44.59	74.00	-29.41	peak			
4	4882.024	38.67	0.14	38.81	54.00	-15.19	AVG			

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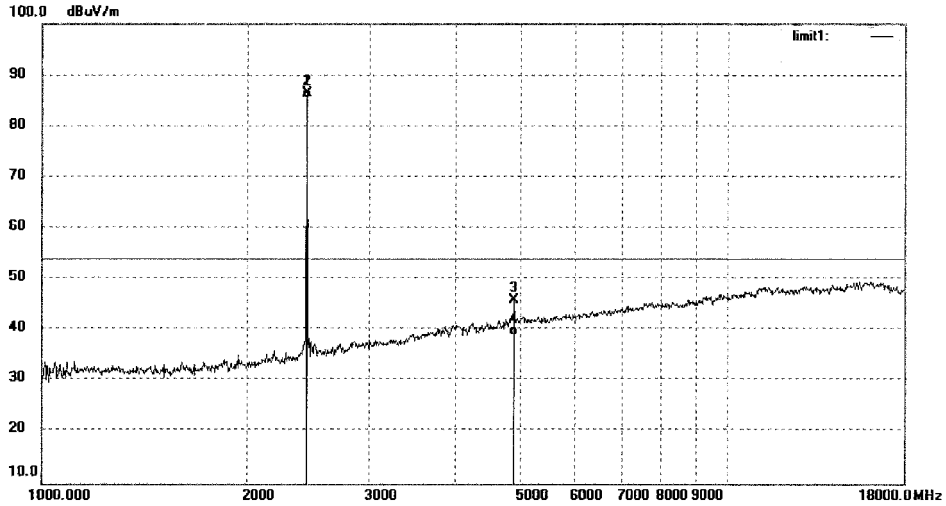
Job No.: LGW2015 #2233	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2441.000	93.66	-7.35	86.31	114.00	-27.69	peak			
2	2441.000	92.75	-7.35	85.40	94.00	-8.60	AVG			
3	4882.028	45.69	0.14	45.83	74.00	-28.17	peak			
4	4882.028	38.86	0.14	39.00	54.00	-15.00	AVG			

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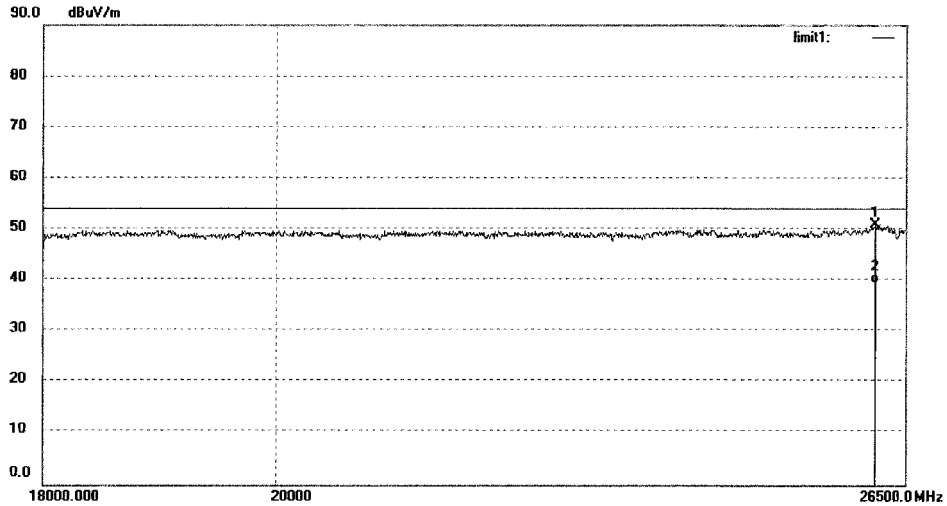
Job No.: LGW2015 #2247	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	26143.685	34.53	16.50	51.03	74.00	-22.97	peak			
2	26143.685	23.00	16.50	39.50	54.00	-14.50	AVG			

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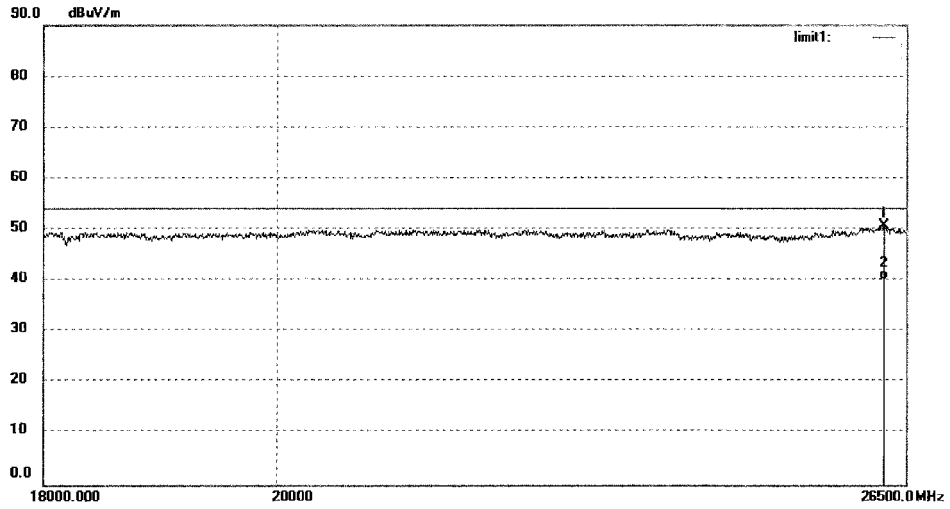
Job No.: LGW2015 #2246	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	26234.849	33.61	17.08	50.69	74.00	-23.31	peak			
2	26234.849	23.07	17.08	40.15	54.00	-13.85	AVG			

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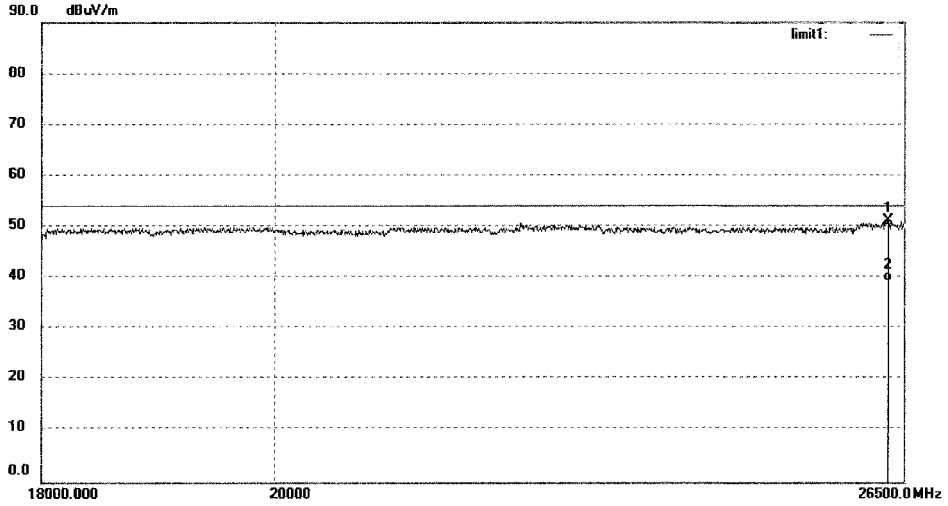
Job No.: LGW2015 #2248	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	26316.150	34.80	16.50	51.30	74.00	-22.70	peak			
2	26316.150	22.69	16.50	39.19	54.00	-14.81	AVG			

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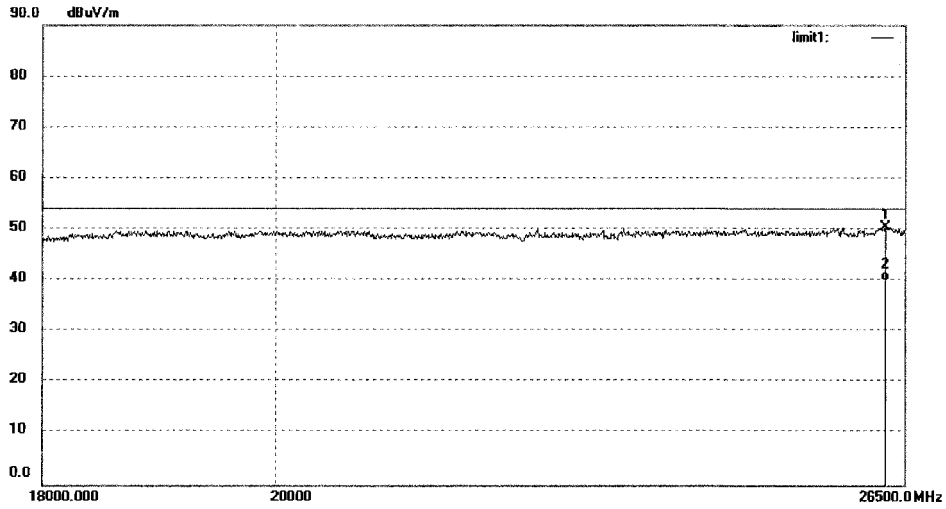
Job No.: LGW2015 #2249	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	26275.468	33.54	17.05	50.59	74.00	-23.41	peak			
2	26275.468	22.98	17.05	40.03	54.00	-13.97	AVG			

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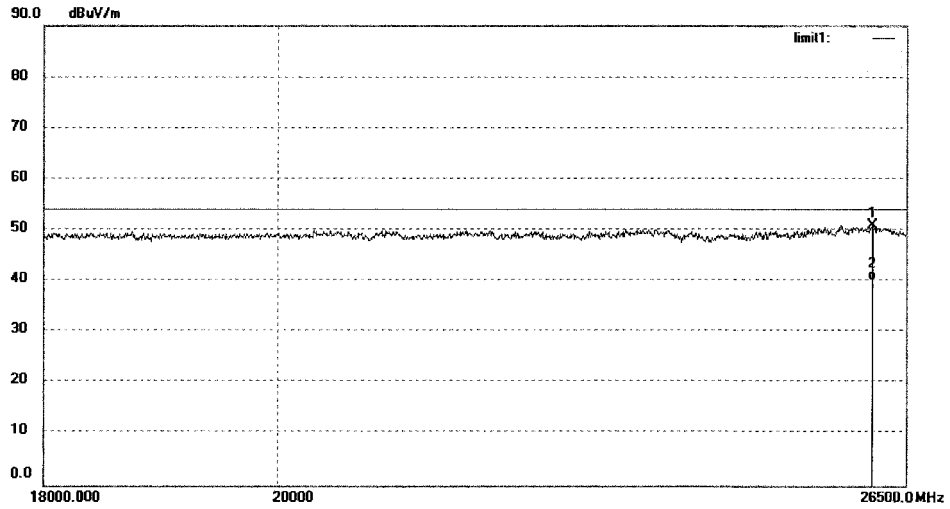
Job No.: LGW2015 #2251	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	26103.270	34.56	16.50	51.06	74.00	-22.94	peak			
2	26103.270	23.58	16.50	40.08	54.00	-13.92	AVG			

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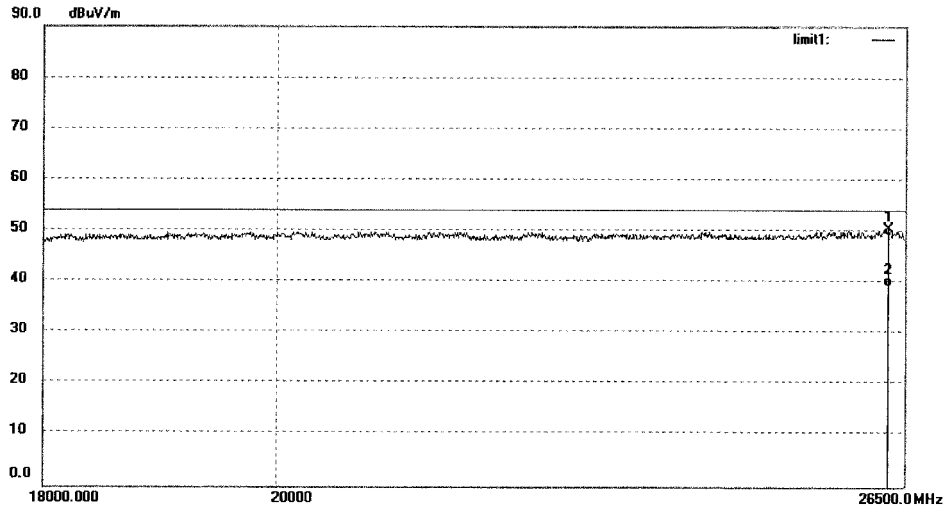
Job No.: LGW2015 #2250	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	26305.974	33.49	17.03	50.52	74.00	-23.48	peak			
2	26305.974	22.25	17.03	39.28	54.00	-14.72	AVG			

Test Plot of Frequency Band Edge

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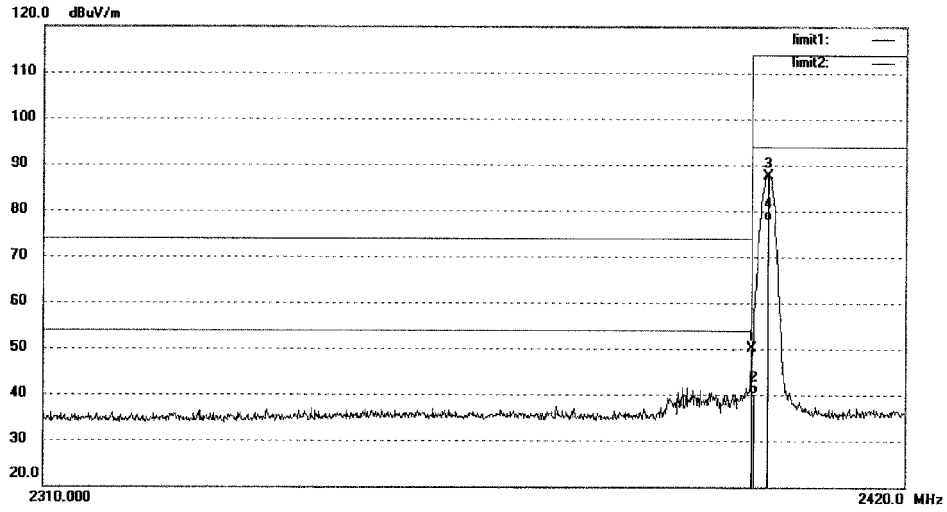
Job No.: LGW2015 #2259	Polarization: Horizontal
Standard: FCC (Band Edge 2.4GHz)	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 202MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2400.000	57.51	-7.46	50.05	74.00	-23.95	peak			
2	2400.000	47.62	-7.46	40.16	54.00	-13.84	AVG			
3	2402.000	95.15	-7.45	87.70	114.00	-26.30	peak			
4	2402.000	85.35	-7.45	77.90	94.00	-16.10	AVG			

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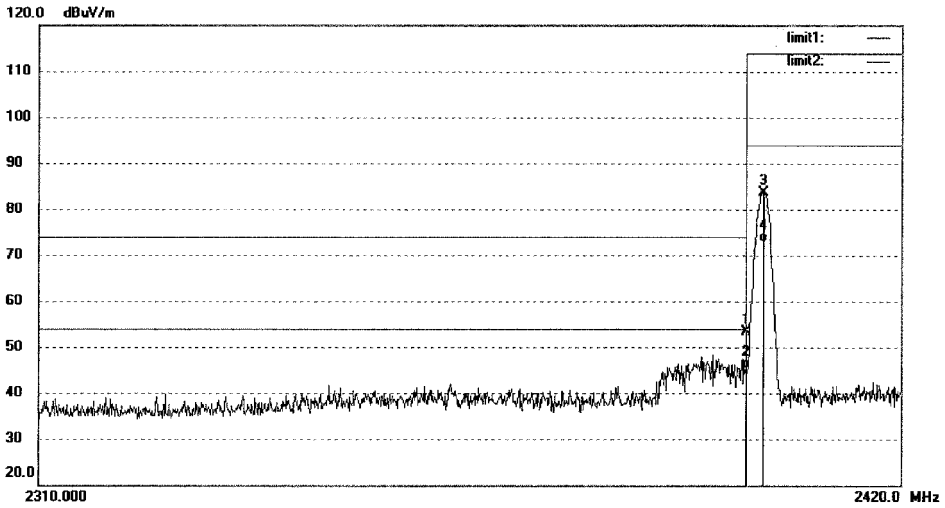
Job No.: LGW2015 #2258	Polarization: Vertical
Standard: FCC (Band Edge 2.4GHz)	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2400.000	60.89	-7.46	53.43	74.00	-20.57	peak			
2	2400.000	52.93	-7.46	45.47	54.00	-8.53	AVG			
3	2402.000	91.09	-7.45	83.64	114.00	-30.36	peak			
4	2402.000	80.23	-7.45	72.78	94.00	-21.22	AVG			

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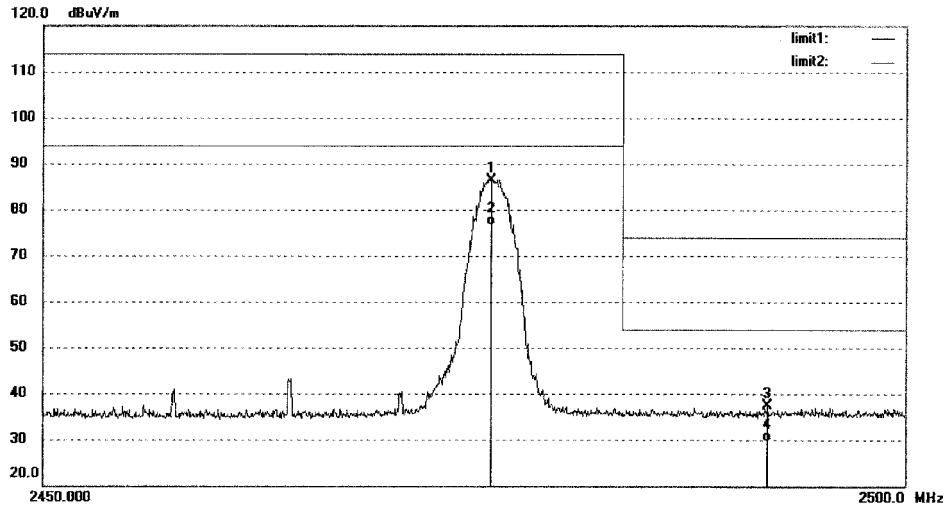
Job No.: LGW2015 #2256	Polarization: Horizontal
Standard: FCC (Band Edge 2.4GHz)	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2476.000	93.69	-7.36	86.33	114.00	-27.67	peak			
2	2476.000	83.89	-7.36	76.53	94.00	-17.47	AVG			
3	2492.000	44.87	-7.39	37.48	74.00	-36.52	peak			
4	2492.000	36.91	-7.39	29.52	54.00	-24.48	AVG			

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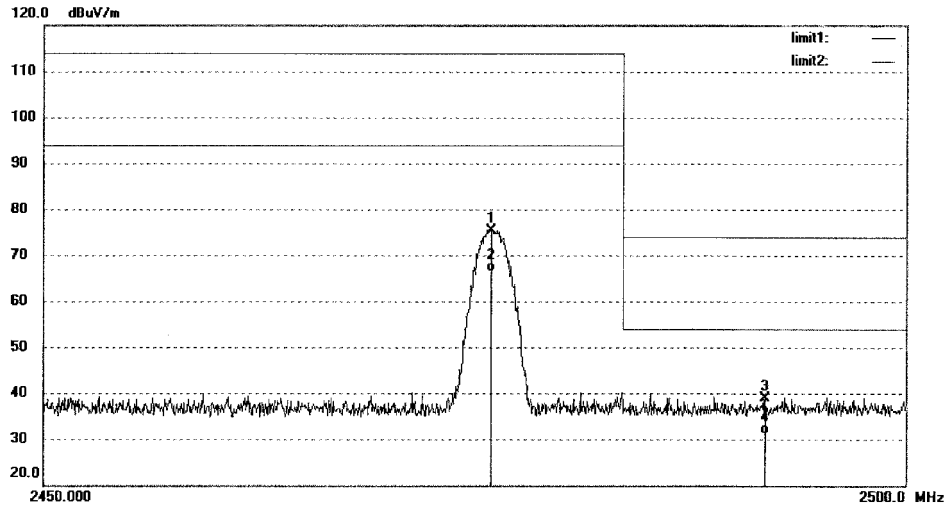
Job No.: LGW2015 #2257	Polarization: Vertical
Standard: FCC (Band Edge 2.4GHz)	Power Source: DC 5V
Test item: Radiation Test	Date: 15/12/24/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Dongle	Engineer Signature: PEI
Mode: TX 2476MHz	Distance: 3m
Model: MX-133	
Manufacturer: Dongguan Newmen Electronics Technology 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	2476.000	82.73	-7.36	75.37	114.00	-38.63	peak			
2	2476.000	73.85	-7.36	66.49	94.00	-27.51	AVG			
3	2491.850	46.22	-7.39	38.83	74.00	-35.17	peak			
4	2491.850	38.43	-7.39	31.04	54.00	-22.96	AVG			

5.1.2 Conducted emissions

RESULT: **Pass**

Date of testing	:	2015-12-24
Test standard	:	FCC Part 15.207 RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207 Table 3 of RSS-Gen
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A
Earthing	:	Connected
Ambient temperature	:	25℃
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

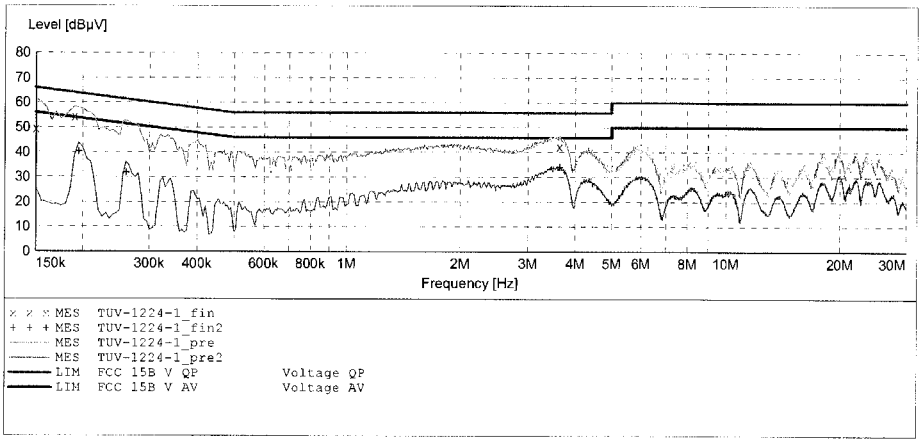
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                    Dongle M/N:MX-133
Manufacturer:           Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:    Transmitting
Test Site:              1#Shielding Room
Operator:               LGWADE
Test Specification:     L 120V/60Hz
Comment:                Mains Port
Start of Test:          12/24/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
  Short Description:              _SUB_STD_VTERM2 1.70
  Start       Stop        Step      Detector   Meas.     IF       Transducer
  Frequency   Frequency   Width                Time      Bandw.
  9.0 kHz     150.0 kHz   100.0 Hz  QuasiPeak  1.0 s     200 Hz   NSLK8126 2008
                                    Average
  150.0 kHz   30.0 MHz    5.0 kHz   QuasiPeak  1.0 s     9 kHz    NSLK8126 2008
                                    Average
```



MEASUREMENT RESULT: "TUV-1224-1_fin"

12/24/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	49.50	10.5	66	16.5	QP	L1	GND
0.190000	54.40	10.5	64	9.6	QP	L1	GND
3.630000	42.30	11.1	56	13.7	QP	L1	GND

MEASUREMENT RESULT: "TUV-1224-1_fin2"

12/24/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	40.10	10.5	54	13.7	AV	L1	GND
0.260000	31.70	10.6	51	19.7	AV	L1	GND
3.630000	34.00	11.1	46	12.0	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

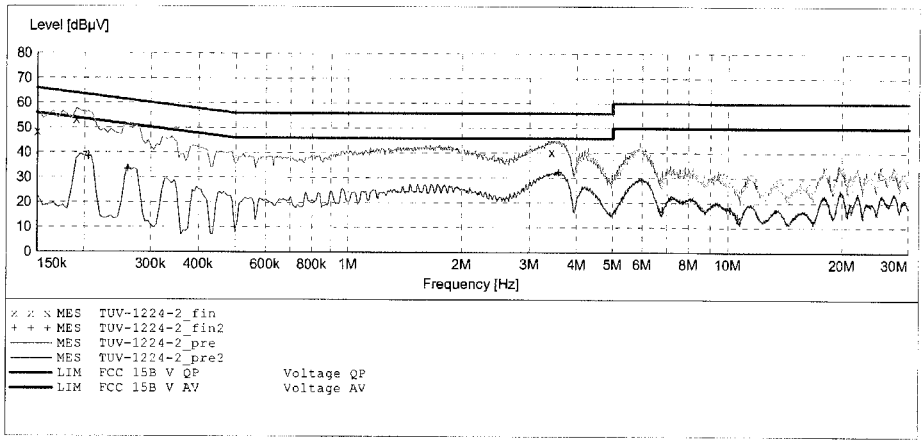
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Dongle M/N:MX-133
Manufacturer:         Dongguan Newmen Electronics Technology Co.,LTD
Operating Condition:  Transmitting
Test Site:            1#Shielding Room
Operator:             LGWADE
Test Specification:   N 120V/60Hz
Comment:              Mains Port
Start of Test:        12/24/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "TUV-1224-2_fin"

12/24/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	48.50	10.5	66	17.5	QP	N	GND
0.190000	53.50	10.5	64	10.5	QP	N	GND
3.430000	40.40	11.1	56	15.6	QP	N	GND

MEASUREMENT RESULT: "TUV-1224-2_fin2"

12/24/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.205000	38.30	10.5	53	15.1	AV	N	GND
0.260000	33.30	10.6	51	18.1	AV	N	GND
3.570000	32.20	11.1	46	13.8	AV	N	GND

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Pass**

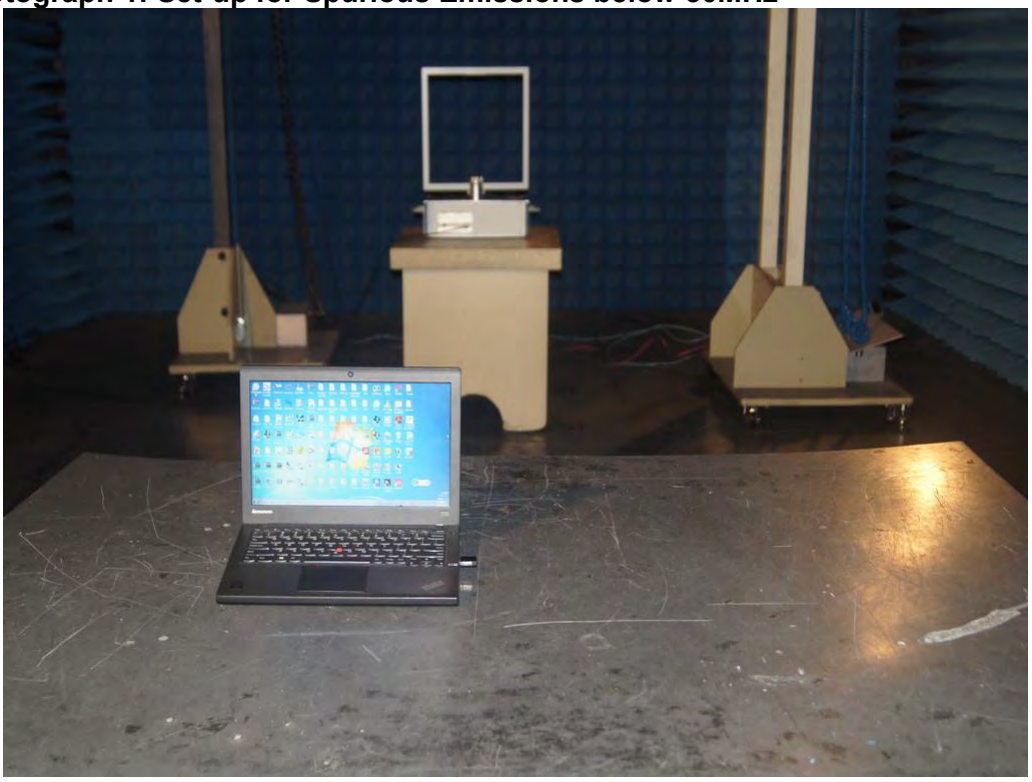
Test standard : RSS-102 Issue 5 March 2015
FCC KDB Publication 447498 D01 v06

The maximum radiated power of the transmitter is 0.627mW (-2.03dBm) only, which less than 309mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

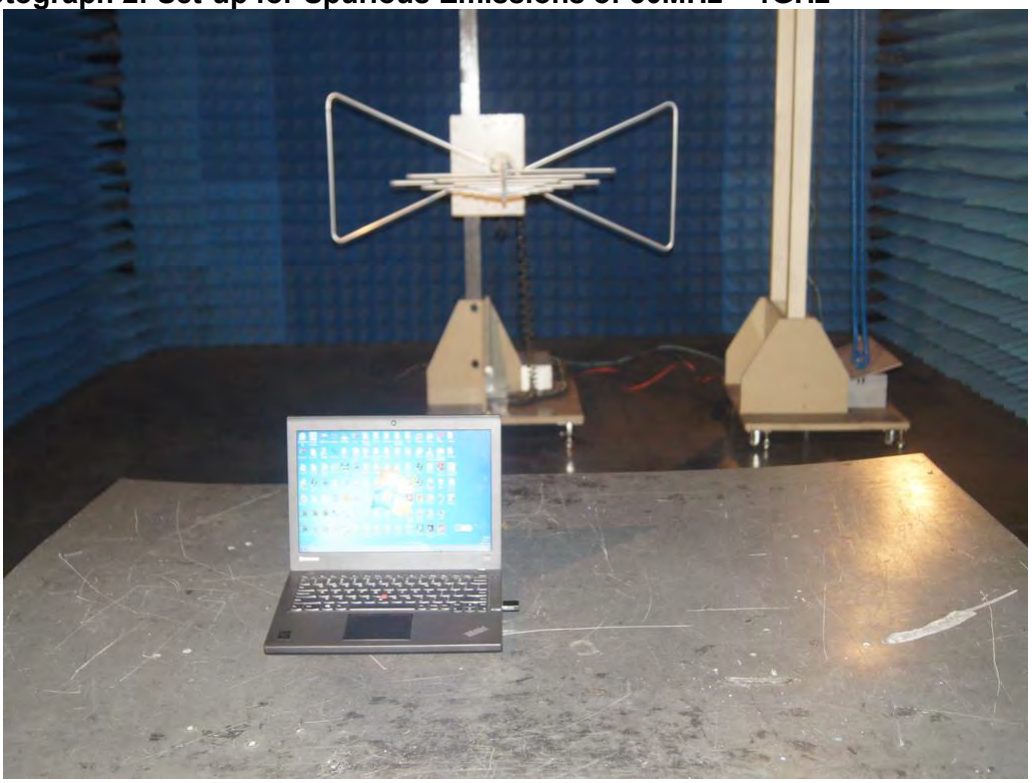
Since maximum radiated power of the transmitter is 0.627mW<96mW, and the distance from EUT to human is ≥50mm, hence the EUT is exclueded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v06.

7. Photographs of the Test Set-Up

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



Photograph 2: Set-up for Spurious Emissions of 30MHz – 1GHz



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

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

8. List of Tables

9. List of Photographs